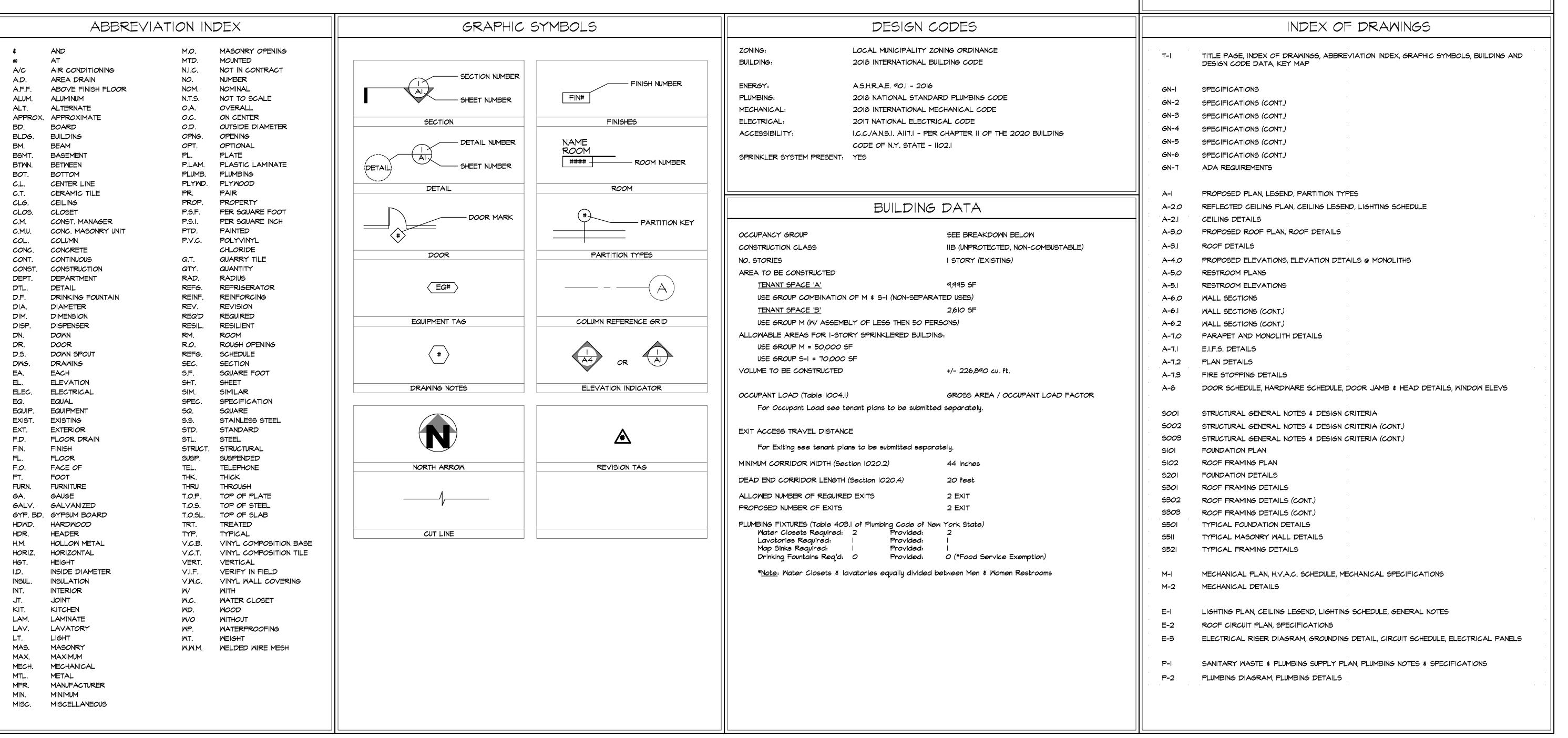
PROPOSED ADDITION TO PEARL RIVER SHOPPING CENTER

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100 N. MIDDLETOWN ROAD
PEARL RIVER
ROCKLAND COUNTY, NY 10965

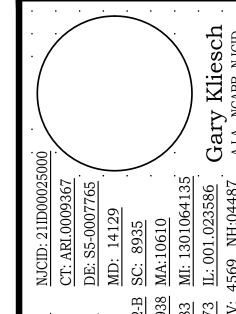


KEY MAP



Gary Kliesch and Associate Architects

Rev. Drawing Issues / Revisions Date



RIVER
CENTER

ETOWN ROAD

PEARL RI SHOPPING C

Drawing Title:

INDEX OF DWG'S, BUILDING

& CODE DATA;

ABBREVATION INDEX,

GRAPHIC SYMBOLS, KEY

MAP

Date:

Dwg No.

Date:

O8/05/22

Drawn By:

A.T., N.C.

Checked By:

C.F., T.A.

Job No:

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1 of 1.

OTHER TRADES WORK, ETC. EACH CONTRACTOR SHALL EXAMINE THE JOB SITE BEFORE SUBMISSION OF BID TO UNDERSTAND THE EXISTING CONDITION, CONSTRUCTION DOCUMENTS AND, IF ANY, VIOLATION OF BUILDING CODES. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE ENTERING INTO CONTRACT WITH THE OWNER OF ANY INTERFERENCES. DISCREPANCIES, OR VIOLATION OF EXISTING CONDITIONS, CONSTRUCTION DOCUMENTS, AND EXISTING VIOLATION OF BUILDING CODES. FAILURE TO PROVIDE NOTIFICATION SHALL RESULT IN THE CONTRACTOR BEING HELD RESPONSIBLE TO COMPLETE ALL WORK INTENT OF THE CONSTRUCTION DOCUMENTS WITH NO

ADDITIONAL EXPENSE INCURRED TO THE OWNER. SHOULD THE G.C. FIND DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS WITH THE CONSTRUCTION DOCUMENTS OR BE IN DOUBT OF THEIR MEANING AFTER VISITING THE SITE OR DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY BRING ANY QUESTIONS TO THE

ATTENTION OF THE ARCHITECT VERIFY ALL DIMENSIONS SHOWN ON PLANS AT SITE TO INSURE ACCURATE FITTING WITH THE STRUCTURE. DO NOT SCALE DRAWINGS! THE G. C. WILL BE HELD RESPONSIBLE FOR ANY INCORRECT WORK PERFORMED IF ARCHITECT IS NOT INFORMED OF ANY DISCREPANCIES.

ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE LATEST ADDITION OF A.I.A. DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION." IN THE EVENT OF ANY DISPUTES IN CONNECTION WITH THE WORK HEREIN, SHALL BE SUBJECT TO BINDING ARBITRATION UNDER THE RULES OF THE AMERICAN ARBITRATION ASSOCIATION.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL BUILDING, PUBLIC UTILITY REGULATIONS AND ALL OTHER LAWS OR CODES HAVING JURISDICTION. ANY WORK NOT

CONFORMING TO THE CODE WILL BE REMEDIED BY THE CONTRACTOR. ALL CONTRACTORS SHALL HAVE AND MAINTAIN LIABILITY, PROPERTY DAMAGE, AND WORKMEN COMPENSATION INSURANCE. ALL PHASES OF CONSTRUCTION SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR SAFETY PRECAUTION AND PROGRAMS IN CONJUNCTION WITH THESE CONTRACT DOCUMENTS.

IO. OWNER'S C.M./G.C, TO REVIEW LANDLORD WORK LETTER AND CONSTRUCTION DRAWINGS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BIDDING/START OF CONSTRUCTION. ALL PERMITS AND CONSTRUCTION FEES ARE TO BE PAID FOR BY THE G.C.,

UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE LABOR, SUPERVISION, MATERIAL, EQUIPMENT, AND ACCESSORIES AND COORDINATE, PROCURE, FABRICATE, DELIVER, ERECT, OR INSTALL INTERFACE WITH ANY NEW OR EXISTING WORK, START, TEST, ALL WORK AS PER CODE AND CONSTRUCTION DOCUMENTS IN ORDER TO PROVIDE THE OWNER WITH A COMPLETE ASSEMBLY OR SYSTEM. ALL MATERIAL SHALL BE NEW AND FREE FROM

WORKMAN LIKE MANNER ACCEPTABLE WITH MODERN PRACTICES. ALL WORKMANSHIP AND MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION OF CONSTRUCTION WORK

ALL DEFECTS. ALL WORK SHALL BE PERFORMED IN A COMPETENT

PROVIDE ALL NECESSARY BARRICADES AND FURNISH ALL NECESSARY LIGHTS AND WARNING SIGNS TO PROTECT ALL WORK, ADJACENT PROPERTIES, DRIVEWAYS WALKS, STEPS, ETC. DURING AND AFTER CONSTRUCTION UNTIL FINAL ACCEPTANCE OR CERTIFICATE OF OCCUPANCY.

THE G.C. WILL BE RESPONSIBLE FOR THE DISPOSAL OF ALL REFUSE AND CONSTRUCTION DEBRIS AND BE RESPONSIBLE FOR CLEANING SOILED SPOTS ON ALL SURFACES OR REPLACE WHERE CLEANING HAS FAILED AS DICTATED BY THE OWNER.

THE G.C. WILL REPAIR ALL DAMAGES CAUSED BY G.C.'S SUBCONTRACTORS (INCLUDING PAINT MARKS, SCRAPES, ETC.) AND ENSURE THAT ALL SURFACES ARE LEFT CLEAN AND ORDERLY AND ACCEPTABLE TO THE

OWNER READY FOR OCCUPANCY. THE G.C. SHALL PROVIDE AND COORDINATE BLOCKING FOR ALL

EQUIPMENT, SYSTEMS, MATERIALS, OR ACCESSORIES. THE G.C. SHALL PROVIDE FLASHING, WEATHER STRIPPING AT ALL

EXTERIOR OPENING HEADS, JAMBS, AND SILLS.

OWNER'S C.M/G.C TO REVIEW LAND LORD/TENANT WORK LETTER AND CONSTRUCTION DRAWINGS AND NOTIFY ARCHITECT IF ANY DISCREPANCIES PRIOR TO BIDDING/ START OF CONSTRUCTION.

SECTION OI 7419 - CONSTRUCTION WASTE MANAGEMENT

PART- I GENERAL I.I SUMMARY

A. Section Includes:

Construction waste management goals, plan, and records. I.2 WASTE MANAGEMENT GOALS

A. Reuse, salvage, or recycle non-hazardous waste materials.

B. Minimize waste sent to landfills and incinerators.

C. Prioritize non-hazardous construction waste management in following order: Reduce amount of waste generated.

2. Reuse material through on-site reuse or off-site salvaging, including sale or donation.

3. Recycle material including diverting materials for secondary uses whenever economically feasible. 4. Dispose of materials with no practical use or economic benefit at

D. Divert minimum 50 percent of construction waste by weight (in tons) or volume (in cubic yards) from landfills and incinerators.

I.3 WASTE MANAGEMEÑT A. Pro-actively manage construction and demolition waste:

I. Practice efficient waste management when sizing, cutting, and installing 2. Use all reasonable means to divert construction and demolition waste

from landfills and incinerators, and to facilitate recycling and reuse. 3. Return unused products and overages to supplier, or donate to

non-profit group 4. Carefully install products; avoid removal of ill-timed and poorly installed products.

5. Use centralized cutting areas to facilitate waste collection.

6. Deliver, store, and handle products to prevent damage. B. Require subcontractors and suppliers to participate in waste management

C. Construction waste includes:

1. Products from demolition and removal, excluding abatement waste, excavated soil, and land-clearing debris. 2. Excess and unusable construction products

3. Packaging materials for construction products. 4. Other materials generated during construction process but not

incorporated into the work. D. Give consideration to:

Availability of viable recycling markets. 2. Condition of materials.

3. Ability to provide material in suitable condition and in quantities

acceptable to available markets. 4. Time constraints imposed by internal project completion mandates. E. Be responsible for implementation of special programs involving rebates

and similar incentives related to recycling of waste. F. Revenues and other savings obtained for salvage and recycling accrue to Contractor

6. Ensure that firms and facilities used for recycling, reuse, and disposal have legal permits for intended uses. .4 SUBMÍTTÁLS

A. Waste Management Plan:

1. Submit waste management plan within ten days after Notice to Proceed and prior to initiating site preparation.

2. Include: a. Name of individual on Contractor's staff responsible for waste prevention and management

b. Actions proposed to reduce solid waste generation and achieve waste management goal. c. Description of proposed methods for recycling and reuse of

materials generated, including areas and equipment for processing, sorting, and temporary storage. d. Estimated types and quantities of waste to be generated.

e. Name of landfills and incinerators to be used. f. Identification of local and regional reuse programs that will accept

q. List of waste materials to be salvaged for resale, salvaged and

reused, or recycled. Identify recycling facilities to be used. Identification of materials that cannot be recycled or reused, with justification.

3. Submit one copy, electronically in Adobe PDF format. 4. If required, revise and resubmit plan within ten days after receipt of

5. Distribute copies of approved Waste Management Plan to concerned 6. Update Waste Management Plan periodically through duration of Project

to reflect changed conditions. B. Sustainable Design Record Documents:

. Maintain records to document: a. Quantities of waste generated, in tons or cubic yards.

b. Types and quantities of materials diverted through sale, reuse, or recycling, in tons or cubic yards, and diversion location. c. Quantities of waste sent to landfill or incinerator, in tons or cubic

2. Submit summary of waste disposal and diversion to date along with each Application for Paument. 3. Submit hauling receipts or certificates for diverted and recycled

materials including material description, hauler name and location, and quantity (by weight) of diverted and recycled materials. 4. Deliver final summary of solid waste disposal and diversion to Architect upon completion of project, electronically in Adobe PDF format.

1.5 QUALITY ASSURANCE A. Review and discuss waste management plan implementation and progress at Preconstruction Conference and Progress Meetings.

1.6 DELIVERY, STORAGE AND HANDLING A. Designate separate areas to facilitate separation of materials for potential recycling, salvage, reuse and return.

B. Clearly identify areas and receptacles. C. Keep storage areas and receptacles clean and orderly; prevent contamination of materials.

D. Monitor storage areas; correct problems and implement preventative

A. Provide training of waste management methods to be used at appropriate

stages of Project. B. Require participation of all subcontractors.

PART-2 PRODUCTS Not used

PART- 3 EXECUTION 3.I WASTE COLLECTION

A. Provide containers and storage areas to facilitate waste management, clearly identified.

B. Handle recyclable materials to prevent contamination by incompatible products and materials.

C. Separate materials by: 1. Placing into marked separate containers, then transporting to recycling

2. Placing into single container, then transporting to recycling facility for

3.2 DISPOSAL

A. Dispose of nonhazardous waste materials that cannot be reused, recycled, or salvaged at licensed landfill or incinerator. B. Handle, store, and dispose of hazardous wastes in accordance with

applicable codes, ordinances, rules, and regulations.

SECTION 02 4120 - SELECTIVE BUILDING DEMOLITION

PART- I GENERAL

I.I REGULATORY REQUIREMENTS

A. Conform to applicable code for demolition work, safety of structure, and dust control

B. Obtain required permits from authorities.

C. Notify affected utility companies before starting work and comply with their D. Conform to applicable codes when hazardous or contaminated materials

are discovered. Do not close or obstruct exits. E. Do not disable or disrupt building fire or life safety systems without 3 days prior written notice to Owner/Architect/Builder.

1.2 PROJECT CONDITIONS A. Minimize interference with streets, walks, public right-of-ways, and adjacent

C. If any of the following conditions are encountered, cease work immediately, notify Architect/Builder and await instructions:

B. If hazardous materials are discovered, notify Architect/Builder and await

l. Structure is in danger of movement or collapse. 2. Materials or conditions encountered differ from those designated in the Contract Documents.

PART- 2 PRODUCTS Not used PART- 3 EXECUTION

3.1 PREPARATION A. Erect temporary partitions, barricades, warning devices, and controls. B. Provide protective coverings, shoring, bracing, and supports for

construction designated to remain. C. Temporarily or permanently disconnect utilities as required. 3.2 DEMOLITION

A. Remove existing construction to extent indicated and as necessary to join new work to existing. Do not remove more than is necessary to allow for new construction.

B. Do not damage work designated to remain C. Minimize noise and spread of dirt and dust.

D. Assign work to trades skilled in procedures involved. E. Plug ends of disconnected utilities with threaded or welded caps.

F. Protect and support active utilities designated to remain. Post warning signs showing location and type of utility and type of hazard.

6. Store items designated to remain property of Owner where directed by Owner/Builder H. Remove and dispose of waste materials off site.

<u>SECTION 03 3000 - CAST-IN-PLACE CONCRETE</u>

PART- I GENERAL I.I SUMMARY

A. Section Includes:

1. Cast-in-place concrete for piers, foundations, slabs on grade and structural frame. I.2 SUBMITTALS

A. Submittals for Review: 1. Concrete Mix Designs: Include:

a. Proportions of cement, fine and coarse aggregates, fibrous reinforcing, and water.

b. Combined aggregate gradation. c. Aggregate specific gravities and gradations.

d. Water/cement ratio, design strength, slump, and air content.

e. Type of cement and aggregates.

f. Air dry density and split cylinder ratio for lightweight concrete. g. Type and proportion of admixtures.

Special requirements for pumping (if applicable). Range of ambient temperature and humidity for which design is valid.

Special characteristics of mix requiring precautions in mixing, placing, or finishing techniques to achieve finished product. B. Sustainable Design Submittals:

Recycled Content and / or Regional Materials. 1.3 QUALITY ASSURANCE A. Concrete Mix Design: In accordance with ACI 301, Method I or 2.

1.4 DELIVERY, STORAGE AND HANDLING A. Mix and deliver concrete to project ready mixed in accordance with ASTM

B. Schedule delivery so that pours will not be interrupted for over 15 minutes. C. Place concrete on site within 90 minutes after proportioning materials at batch plant.

1.5 PROJECT CONDITIONS A. Cold Weather Placement - Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures. Comply with ACI 306R and following requirements:

. Air temperature at or expected to fall below 40 degrees F, uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 degrees F and not more than 80 degrees F at point of placement.

2. Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen 3. Do not use calcium chloride, salt, and other materials containing

antifreeze agents or chemical accelerators unless otherwise accepted in mix designs. B. Hot Weather Placement - Place concrete in accordance with ACI 305R and

following requirements: . Cool ingredients before mixing to maintain concrete temperature at time of placement below 90 degrees F. Use chilled mixing water or chopped ice if water equivalent of ice is calculated in total amount of mixing

2. If required, cover reinforcing steel with water soaked burlap so that steel temperature will not exceed ambient air temperature.

3. Fog spray forms, reinforcing steel, and subgrade just before concrete is

4. Use water-reducing retarding admixture when required by high temperatures, low humidity, or other adverse placing conditions. PART- 2 PRODUCTS

2.I MANUFACTURERS A. Acceptable Manufacturers - Concrete Chemicals:

1. BASF Corporation. (<u>www.buildingsystems.basf.com</u>)

2. Dayton Superior. (<u>www.daytonsuperior.com</u>) 3. W. R. Meadows, Inc. (<u>www.wrmeadows.com</u>)

B. Substitutions: Permitted, upon review and acceptance by architect or structural engineer. 2.2 MATERIALS

A. Portland Cement: ASTM C150, Type I or III, gray color.

B. Aggregates: . Fine: ASTM C33, clean, hard, durable, uncoated natural sand, free from silt, loam, and clay 2. Coarse: ASTM C33, clean, hard, durable, uncoated crushed stone,

maximum size No. 467, Table No. 2. 3. Lightweight: ASTM C330, expanded shale or clay produced by rotary kiln method.

C. Fly Ash: ASTM C618, maximum 2 percent loss on ignition. D. Fibrous Reinforcing: ASTM CIII6/III6M, 100 percent virgin polypropylene, free from reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.

B. Admixtures: Water reducing or water reducing/set retarding: ASTM C494, Type A or

2. Air entraining: ASTM C260.

A. Water: Clean and potable.

2.3 ACCESSORIES

water reducing and plasticizing agents; minimum 7,000 psi compressive strenath at 28 days. E. Bonding Agent: Two component modified epoxy resin.

D. Non-Shrink Grout: Premixed, consisting of non-metallic aggregate, cement,

F. Curing Compound: ASTM C309, solvent based type.

C. Expansion Joint Filler: ASTM DI752, non-asphaltic type.

percent air by volume of concrete.

G. Curing Paper: ASTM C171, waterproof paper or polyethylene film.

2.4 MIXES A. Proportions: In accordance with ACI 301.

B. Design concrete to yield characteristics as indicated on Drawings. C. Air Entrained Concrete: Provide air entraining admixture to produce 4 to 6

D. Fibrous Reinforced Concrete: I. Add fibrous reinforcing to concrete at time concrete is batched to provide 80 pounds of reinforcing per cubic yard of concrete.

2. Ensure complete distribution. E. Use accelerating admixture in cold weather only when approved by Architect. Use of admixtures will not reduce cold weather placement

F. Fly Ash Content: Minimum IO percent by weight of cementitious material in

PART- 3 EXECUTION 3.I PREPARATION

A. Notify Testing Laboratory minimum 24 hours prior to placing concrete.

B. Accurately position anchor bolts, sleeves, conduit, inserts, and accessories. Do not cut reinforcing steel to facilitate installation of inserts or

C. Remove water and debris from forms and excavations D. Close openings left in forms for cleaning and inspection.

E. Prepare previously placed [and existing] concrete surfaces by cleaning with steel wire brush and applying bonding agent in accordance with manufacturer's instructions

F. Where new concrete is doweled to existing, drill holes in existing concrete,

insert steel dowels, and pack holes solid with non-shrink grout. 3.2 PLACEMENT OF CONCRETE A. Place concrete in accordance with ACI 30I and ACI 318.

B. Ensure reinforcement, inserts, and embedded parts are not disturbed during concrete placement. C. Deposit concrete as nearly as possible in its final position to minimize

handling and flowing D. Place concrete continuously between predetermined expansion, control, and construction joints

F. Do not allow concrete to free fall over 8 feet; provide tremies, chutes, or other means of conveyance. G. Consolidate concrete with mechanical vibrating equipment. Hand compact in

E. Do not place partially hardened, contaminated, or re-tempered concrete.

corners and angles of forms. H. Screed slabs level, to flatness tolerance of 1/8 inch in 10 feet. 3.3 PLACEMENT OF SEPARATE FLOOR TOPPINGS

A. Prior to placing toppings, remove deleterious material from concrete substrates; broom surfaces clean. B. Apply bonding agent to concrete substrate; follow manufacturer's

instructions. C. Place divider strips and reinforcing.

surface.

of 1/4 inch in 10 feet. 3.4 PLACEMENT OF GROUT A. Remove loose and foreign matter from concrete; lightly roughen bonding

D. Place toppings to required lines and elevations; screed level, to tolerance

B. Just prior to grouting, thoroughly wet concrete surfaces; remove excess C. Mix grout in accordance with manufacturer's instructions. Do not re-temper.

D. Place grout continuously, by most practical means; avoid entrapped air. Do not vibrate grout. 3.5 PROTECTION A. Immediately after placement, protect concrete from premature drying,

excessively hot, or cold temperatures, and mechanical injury. B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.

C. Provide artificial heat to maintain temperature of concrete above minimum specified temperature for duration of curing period. D. Keep forms sufficiently wet to prevent cracking of concrete or loosening of form joints.

3.6 CURING

A. Cure concrete in accordance with ACI 308: Horizontal surfaces: a. Surfaces to receive additional toppings or setting beds: Use curing

b. Other surfaces: Use either curing paper or curing compound method. 2. Vertical surfaces: Use either wet curing or curing compound method. B. Curing Compound Method:

1. Spread curing paper over surfaces, lapping ends and sides minimum 4

1. Spray compound on surfaces in two coats, applying second at right angle to first, at minimum rate recommended by manufacturer. 2. Restrict traffic on surfaces during curing. C. Curing Paper Method:

inches; maintain in place by use of weights. 2. Remove paper after curing. D. Wet Curing Method: Spray water over surfaces and maintain wet for 7 days. 3.7 CLEANING

A. Remove efflorescence, stains, oil, grease, and foreign materials from exposed surfaces. 3.8 FIELD QUALITY CONTROL

A. Testing and Inspection Services (when required):

added to concrete at project site.

Certify each delivery ticket. 2. Record time at which concrete was discharged from truck. 3. Monitor and record amount of water and water reducing admixture

4. Determine ambient temperature and temperature of concrete sample for each set of test cylinders. 5. Test cylinders:

a. Make test cylinders in accordance with ASTM C172; one set of 3

cylinders for each 100 cubic yards placed in any one day, for each different class of concrete. b. Mold and cure cylinders in accordance with ASTM C31; test cylinders

in accordance with ASTM C39; one at 7 days and two at 28 days. 6. Slump tests: Make slump tests at beginning of each day's placement and for each set of test cylinders in accordance with ASTM C143.

each strength test in accordance with ASTM C231.

7. Air content: Determine total air content of air entrained concrete for

SECTION 03 3500 - CONCRETE FINISHING

PART- I GENERAL

I.I SUMMARY A. Section Includes

Finishing concrete slabs and formed surfaces.

2. Floor sealer/hardener. B. Related Sections:

Division OI: Administrative, procedural, and temporary work requirements 2. Section 033000 - Cast-In-Place Concrete.

1.2 REFERENCES

A. American Concrete Institute (ACI) (<u>www.aci-int.org</u>):

301 - Structural Concrete for Buildings. B. ASTM International (ASTM) (www.astm.ora):

C309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.

1.3 DEFINITIONS A. Specified Overall Value (SOV): Describes the flatness or levelness value which must be achieved when all measured values of that type on a given

Test Surface are combined. B. Minimum Local Value (MLV): Describes the flatness or levelness value below which repair or replacement is required and applies to Minimum Local Area.

C. Minimum Local Area (MLA): An area bounded by construction or contraction joints or by column lines or half-column lines, whichever is smaller; no boundary crosses a construction joint or expansion joint. D. Level: Horizontal, normal to the direction of gravity. An envelope is defined

A. Installer Qualifications: Minimum 5 years documented experience in work of

by 2 level lines which are separated by stated distances. 1.4 SUBMITTALS A. Submittals for Review:

Product Data: Descriptive data for sealer/hardener. 1.5 QUALITY ASSURANCE

this Section. PART- 2 PRODUCTS

2.I MANUFACTURERS A. Acceptable Manufacturers - Concrete Sealers:

BASF Corporation. (<u>www.buildingsystems.basf.com</u>) 2. Dayton Superior Corporation. (www.daytonsuperior.com)

4. Nox-Crete Products Group. (<u>mww.nox-crete.com</u>) B. Substitutions: Under provisions of Division Ol. 2.2 MATERIALS

3. W. R. Meadows, Inc. (<u>www.wrmeadows.com</u>)

A. Concrete Materials: Specified in Section 033000. B. Floor Sealer/Hardener: 1. Type: [Mater soluble, magnesium-flurosilicate based, reactive with free lime in concrete, non-film forming.] [Water soluble, sodium-silicate based,

2. Maximum Volatile Organic Compound (VOC) Content: 50 grams per liter. 2.3 MIXES A. Patching Mortar:

free from residues.] [Water soluble, inorganic silicate based.]

Use same proportions as concrete except omit coarse aggregate. 2. Add minimum water required for handling and placing.

B. Mortar Slurry: I-part Portland cement and I-1/2-part damp, loose sand, by volume. PART- 3 EXECUTION

A. Finish concrete floor surfaces in accordance with ACI 301 and ACI 302.1. B. Steel trowel and seal surfaces to be exposed. Apply sealer/hardener in accordance with manufacturer's instructions.

C. In areas with floor drains, maintain design floor elevation at walls; slope surfaces uniformly to drains at 1/8 inch per foot. D. Tolerances: Maximum variation of surface flatness for exposed concrete floors: 1/8

2. Correct defects by grinding or removal and replacement of defective work. Re-measure corrected areas by same process.

SECTION 04 0513 - MASONRY MORTARING

3.1 FINISHING INTERIOR FLOOR SURFACES

PART- I GENERAL

PART- 2 PRODÚCTS

I.I QUALITY ASSURANCE A. Perform Work in accordance with TMS 402 and 602.

5. Store aggregate to prevent inclusion of foreign matter

I.2 DELIVERY, STORAGE AND HANDLING A. Deliver cement and lime in manufacturer's original, unopened packages or

B. Protect materials from moisture absorption and damage; reject damaged containers.

2.I MANUFACTURERS A. Acceptable Manufacturers - Cement: I. Essroc Cement Corp. 2. LaFarge North America, Inc.

3. Lehigh Cement Co. 1. Texas Industries, Inc. B. Acceptable Manufacturers - Lime: Graymont Dolime (OH) Inc.

2. Lhoist North America. C. Acceptable Manufacturers - Preblended Mortars and Grouts: Quikrete Companies. D. Acceptable Manufacturers - Colorants:

Cathay Pigments.

A. Portland Cement:

2.4 MIXING

2. Davis Colors. 3. Solomon Colors. E. Substitutions: Under provisions of Division Ol. 2.2 MATERIALS

A. Mix mortar in accordance with ASTM C270.

ASTM C150, Type 2. For exposed surfaces, provide cement from one source throughout

B. Masonry Cement: ASTM C91, Type M or as described on drawings.

C. Mortar Cement: ASTM C1329, Types M or as described on drawings. D. Firebrick Mortar: ASTM C199. E. Aggregate:
I. ASTM C144, standard masonry type.

2. For exposed surfaces, provide aggregate from one source throughout

F. Lime: ASTM C207, Type S or SA. G. Colorant: Pure mineral oxide or as described on drawings. H. Water: Clean and free from oils, acids, alkalies, organic matter, and other

substances in amounts deleterious to mortar or metals in masonry. 2.3 MIXES A. Mortar Mixes: To ASTM C270 using the Property Method. B. Firebrick Mortar: Mix in accordance with manufacturer's instructions.

B. Jobsite Proportioning of Mortar: I. Mix using mechanical mixer. Hand mixing not permitted. 2. Mix approximately three-quarters of required water, all of cement and

lime, and one-half of aggregate for minimum of 2 minutes. 3. Add remainder of water and aggregate; mix for minimum of 3 minutes. C. Dry Preblended Mortan: Mix using continuous, self-cleaning mixer mounted at apex of silo cone.

2. Set water flow valve to provide workable consistency. D. Provide uniformity of color in exposed mortar. E. Colorant may not exceed 9 pounds per 94 pound bag of cement for mineral oxides and 1-3/4 pounds per 94 pound bag for carbon black.

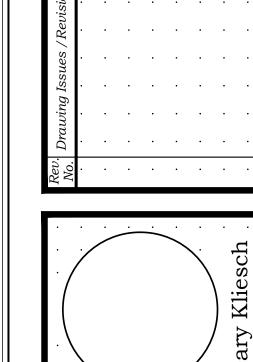
G. Discard lumpy, caked, frozen, and hardened mixes. H. Mortar may be retempered by adding water as required. Use mortar within 2-1/2 hours after initial mixing at ambient temperatures below 80 degrees F and within 1-1/2 hours after initial mixing at ambient temperatures over 80 degrees F.

1. Do not add accelerators, retarders, water repellents, antifreeze

compounds, or other additives without Architect's approval.

F. Thoroughly mix ingredients in quantities needed for immediate use.

PART- 3 EXECUTION 3.I INSTALLATION A. Follow requirements specified in referenced sections.



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CENT RIVER RL PPIN PE. 0 W

GENERAL NOTES SPECIFICATIONS A.T.,. N.C.

1 of 7

08/05/22 Checked By:

<u>SECTION 04 0516 - MASONRY GROUTING</u>

PART- I GENERAL

- I.I QUALITY ASSURANCE
- A. Perform Work in accordance with TMS 402 and 602. 1.2 DELIVERY, STORAGE AND HANDLING
- A. Deliver cement and lime in manufacturer's original, unopened packages or
- B. Protect materials from moisture absorption and damage; reject damaged
- C. Store aggregate to prevent inclusion of foreign matter PART- 2 PRODÚCTS

2.I MANUFACTURERS

- A. Acceptable Manufacturers Cement:
- I. Essroc Cement Corp.
- 2. LaFarge North America, Inc. 3. Lehigh Cement Co.
- 4. Texas Industries, Inc
- B. Acceptable Manufacturers Lime:
- Graymont Dolime (OH) Inc 2. Lhoist North America.

C. Substitutions: Under provisions of Division Ol. 2.2 MATERIALS

- A. Portland Cement: ASTM C150, Type 1
- B. Masonry Cement: ASTM C91, Type M.
- C. Aggregate: ASTM C404. D. Lime: ÁSTM C207, Type S.
- E. Water: Clean and free from oils, acids, alkalies, organic matter, and other substances in amounts deleterious to mortar or metals in masonru. 2.3 MIXES

A. Grout Mix:

- ASTM C476, fine or coarse grout, as described in drawings. 2. Compressive strength: Minimum 2500 psi at 28 days.
- 3. Slump: 7 to 8 inches.
- 2.4 MIXING A. Mix grout in accordance with ASTM C476.
- B. Thoroughly mix ingredients in quantities needed for immediate use.
- C. Mix dry ingredients mechanically until uniformly distributed; add water to achieve workable consistency.
- D. Discard lumpy, caked, frozen, and hardened mixes.
- E. Use grout within 2-1/2 hours after initial mixing at ambient temperatures below 80 degrees F and within 1-1/2 hours after initial mixing at ambient
- temperatures over 80 degrees F. F. Do not add accelerators, retarders, water repellents, antifreeze compounds, or other additives without Architect's approval.

PART- 3 EXECUTION 3.I INSTALLATION

A. Follow requirements specified in referenced sections.

SECTION 04 2000 - UNIT MASONRY

PART- I GENERAL I.I SUMMARY

- A. Section Includes:
- Concrete unit masonry.
- 2. Brick unit masonry
- 3. Autoclaved aerated concrete unit masonry. 4. Fireclay brick and clay flue linings.
- 5. Integral flashings. 1.2 SUBMITTALS

A. Submittals for Review:

- 1. Product Data: Provide information on reinforcing and anchors including
- sizes, profiles, materials, and finishes. 2. Samples: In quantities showing full color and texture range.
- B. Sustainable Design Submittals: Materials Reuse, Recycled Content., Regional Materials.
- I.3 QUALITY ASSURANCE
- A. Installer Qualifications: Minimum 5 years documented experience in work of
- B. Perform Work in accordance with TMS 402 and 602. 1.4 DELIVERY, STORAGE AND HANDLING
- A. Store masonry off ground; prevent contact with materials that could cause
- staining or damage
- B. Protect reinforcement and anchors from corrosion. 1.5 PROJECT CONDITIONS

A. Wall Protection

- 1. During erection, cover tops of partially completed walls with strong waterproof membrane at end of each day or work stoppage. 2. Extend cover minimum of 24 inches down both sides; hold securely in
- B. Load Application
- 1. Do not apply uniform loads for at least 12 hours after building masonry
- 2. Do not apply concentrated loads for at least 3 days after building masonry columns or walls.
- C. Environmental Requirements
- 1. Hot weather requirements: If ambient temperature is over 95 degrees F or relative humidity is less than 50 percent, protect from direct sun and wind exposure for minimum 48 hours after installation.
- 2. Cold weather requirements: Do not use frozen materials or build on frozen work.

PART- 2 PRODUCTS

- 2.I MANUFACTURERS A. Acceptable Manufacturers - Concrete Masonry Units: (if not indicated on drawings)
 - I. Featherlite Building Products. (<u>www.featherlitetexas.com</u>)
- 2. Spectra Development Corp. (<u>www.spectraglaze.com</u>)
- 3. Trenwyth Industries. (<u>www.trenwyth.com</u>)
- B. Acceptable Manufacturers Brick Masonry Units: (if not indicated on
- drawinas) 1. Acme Brick Co. (<u>www.brick.com</u>)
- 2. Belden Brick Co. (<u>www.beldenbrick.com</u>)
- 3. Endicott Clay Products. (<u>www.endicott.com</u>) 4. Glen-Gery Corporation. (<u>www.glengerybrick.com</u>)
- C. Acceptable Manufacturers Masonry Accessories:
- Blok-Lok Ltd. (<u>mmm.blok-lok.com</u>) 2. Heckmann Building Products. (<u>www.heckmannbuildingprods.com</u>)
- 3. Hohmann and Barnard, Inc. (<u>www.h-b.com</u>)

2.2 MATERIALS

- A. Concrete Masonry Units:
- I. ASTM C90, hollow load bearing type, normal weight. 2. Size: Nominally 8 inches high \times 16 inches long \times thickness indicated.
- 3. Special shapes: As indicated on drawings.
- B. Brick: ASTM C216, Grade SW, Type FBS.
- 2. Size: Modular; 2-1/4 inches high \times 7-5/8 inches long \times 3-5/8 inches thick.,
- unless otherwise indicated on drawings. 3. Color and Surface Texture: As indicated on drawings
- 4. Special shapes: As indicated on Drawings.]
- 5. Provide solid units where holes would otherwise occur on exposed

2.3 ACCESSORIES

- A. Mortar: Specified in Section 040513.
- B. Grout: Specified in Section 040516.
- C. Single and Double Wythe Joint Reinforcement: 1. Truss type; ASTM A951, hot-dip galvanized steel wire, 9 gage side rods

- with 9 gage cross ties.
- 2. Width: Nominal wall thickness less 1-1/2 inches.
- 3. Corner and tee fittings: Type to match reinforcement. 4. Recycled content: Minimum 25 percent recycled steel, with minimum 10
- percent classified as post-consumer D. Strap Anchors: Bent steel shape, size as indicated on drawings, hot dip qalvanized, ASTM A153/A153M, Grade B2 finish.]
- E. Veneer Ties: Corrugated formed sheet metal, size as indicated on drawings, 9 gage minimum thickness, hot dip galvanized, ASTM A153/A153M,
- F. Dovetail Anchors: Bent steel strap, 4 inches long x 3/16 inch thick, hot dip aalvanized, ASTM Al53/Al53M, B2 finish].
- G. Fasteners: Hot-dip galvanized steel screws, minimum 3/4 inch penetration into framing.
- H. Reinforcing Bars: 1. ASTM A615/A615M, deformed billet steel, Grade 40 or 60.
- 2. Recycled content: Minimum 75 percent recycled steel, with minimum 40 percent classified as post-consumer
- I. Flashings: Galvanized steel, ASTM A653/A653M, G90 coating class, 24 gage core steel, natural finish. Special coloring if indicated on drawings. J. Weeps: Preformed plastic tubes filled with cotton wicks, color to match
- K. Mortar Dropping Control: Preformed plastic mesh, or approved substitute.
- L. Joint Sealer: Specified in Section 079200. M. Cleaner: Type recommended by masonry manufacturer.

PART- 3 EXECUTION 3.I PREPARATION

- A. Wet brick having an absorption rate in excess of 20g per 30 square inches per minute as determined by ASTM C67 so that absorption rate when laid does not exceed this amount.
- B. Remove dirt, loose rust, and other foreign matter from reinforcement and anchors.
- 3.2 INSTALLATION A. Establish lines, levels and courses indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimensions. Form horizontal and vertical joints of uniform thickness.
- C. Lay concrete masonry in running bond. Course one masonry unit and one mortar joint to equal 8 inches.
- D. Lay brick masonry in running bond unless otherwise indicated. Course three brick units and three mortar joints to equal 8 inches. E. Lay fireclay brick masonry in running bond. Course one brick unit and one
- mortar joint to equal 2-5/8 inches. F. Lay masonry plumb and level. Do not adjust masonry units after mortar has
- 6. Lay solid masonry units in full mortar bed, with full head joints. Lay hollow
- masonry units with face shell bedding on head and bed joints. H. Do not butter corners or excessively furrow joints.
- I. Machine cut masonry with straight cuts and clean edges; prevent oversized or undersized joints. Discard damaged units. Do not expose cut cells.
- J. Isolate masonry from structural members with compressible filler. K. When joining fresh masonry to partially set masonry, remove loose masonry
- and mortar; clean and lightly wet exposed surface of set masonry. L. Stop horizontal runs by racking back normal bond unit in each course.
- Toothing not permitted. M. Horizontal Reinforcement: 1. Place reinforcement at maximum 16 inches on center vertically, at
- topmost course, and at first two courses above and below openings. 2. Extend minimum 24 inches each side of openings.
- Center reinforcing in wall. 4. Lap ends 6 inches minimum; use fabricated tee and corner fittings at corners and intersections.
- N. Secure masonry to structural members with strap anchors spaced maximum 16 inches on center. O. Veneer Ties:
- Space ties to provide one tie per 2.67 square feet at maximum spacing of 32 inches on center horizontally.
- 2. Locate ties within 12 inches of ends of masonry walls and openings. P. Install clay flue liners in accordance with ASTM C1283. Q. Control and Expansion Joints:
- I. Do not continue horizontal joint reinforcement through joints. 2. Keep joints free from mortar and grout. 3. Install joint backing and joint sealer at control joints in accordance with
- Section 079200. 4. Form expansion joint as indicated on Drawings.
- R. Finishina Mortar Joints I. Exposed locations: Tool joints to concave profile.
- 2. Concealed locations: Cut joints flush. S. Reinforcing Bars:
- I. Position reinforcing accurately and hold securely in place to prevent displacement. Maintain minimum I inch space between masonry and
- 2. Grout at intervals of not more than 60 inches in 6 to 8 inch lifts. 3. Vibrate grout during and after placement to ensure complete filling.
- 4. Stop grout I-I/2 inch below top of masonry if grouting is stopped for I hour or more, except where completing grouting of finished wall. T. Flashinas:
- I. Install flashing with outer edge flush with outside face of masonry; extend up backup 8 inches minimum and build into masonry. 2. Lap end joints 4 inches minimum and seal.

3. Form end dams where flashing is stopped or interrupted.

- 4. Apply trowel coat of mastic along flashing at top edge, seams, cuts, and penetrations.
- 1. Locate in head joints in first course above flashings at maximum 32 inches on center 2. Set weeps flush with exterior face of masonry.
- W. Installation Tolerances; Maximum variation from: Alignment of columns and pilasters: Plus or minus 1/4 inch.

V. Install mortar dropping control continuously in cavities above flashings.

- 2. Alignment face to face of adjacent units: Plus or minus 1/8 inch. 3. Vertical alignment of head joints: Plus or minus 1/2 inch in 10 feet. 4. True plane of wall: Plus or minus 1/4 inch in 10 feet and 1/2 inch in 20
- feet or more
- 5. Plumb: Plus or minus 1/4 inch in 10 feet noncumulative; 1/2 inch in 20 feet or more. 6. Level coursing: Plus or minus 1/8 inch in 3 feet; 1/4 inch in 10 feet; 1/2 inch
- in 30 feet. 7. Joint thickness: Plus or minus 1/8 inch.

ASTM CI314.

- 8. Cross sectional thickness of walls: Plus or minus 1/4 inch. 3.3 FIELD QUALITY CONTROL A. Testing and Inspection Services:
 - compliance with specified requirements. 2. Masonry assemblies: a. Determine compressive strength of masonry by the prism method,

1. Masonry units: Inspect masonry units prior to and during installation for

- b. Verify dimensions and condition of grout spaces and type, quantity, and placement of reinforcement during installation and just prior to closing of cleanouts.
- c. Verify type, quantity, and installation of reinforcement, anchors, and d. Inspect placement of grout.

3. Grout: Mold and test one set of compressive strength cubes in

- accordance with ASTM CIOI9 for each 500 square feet of masonry wall
- area or fraction thereof.
- 3.4 CLEANING A. Protect adjacent and underlying surfaces.
- B. Apply masonry cleaner in accordance with manufacturer's instructions. C. Thoroughly rinse surfaces with clean water after completion of cleaning; remove all traces of cleaning solution.

SECTION 05 1200 - STRUCTURAL STEEL FRAMING

PART- I GENERAL

- I.I SUMMARY A. Section Includes:
 - Structural steel framina members.
- 2. Grouting base plates. 1.2 SUBMITTALS
- A. Submittals for Review: 1. Shop Drawings: Indicate profiles, sizes, spacing, and location of structural members, openings, attachments, and fasteners, and
- connections not detailed. B. Quality Control Submittals:
- Welder Qualifications: As required by AMS DI.I/DI.IM. 2. Sustainable Design Submittals: Recycled Content and / or Regional
- Materials. I.3 QUALITY ASSURANCE A. Fabricator and Erector Qualifications: Minimum 5 years documented
- experience in work of this Section B. Welder Qualifications: AMS DI.I/DI.IM. C. Design Requirements: Design connections not detailed on Drawings under supervision of a Professional Structural Engineer experienced in this work
- and registered in the State in which the project is located. 1.4 DELIVERY, STORAGE AND HANDLING A. Store steel above around on platforms, skids, or other supports; separate
- with mooden separators. B. Protect steel from corrosion C. Prevent damage to prime coat.

PART- 2 PRODUCTS 2.I MATERIALS

- A. Steel:
- I. Shapes, bars, and plates: ASTM A36/A36M. 2. Hollow structural sections: ASTM A500, Grade B.
- 3. Pipe: ASTM A53/A53M, Grade B. 4. Shear Connectors (if needed): ASTM AIO8, Grade IO15, forged steel, headed, unfinished.
- 5. Recycled content: Minimum 30 percent recycled steel, with minimum 15 percent classified as post-consumer. 2.2 ACCESSORIES
- A. Anchor Bolts: ASTM A307.
- B. High Strength Bolts: ASTM A325, Type I, uncoated. C. Standard Bolts: ASTM A307, Grade A.
- D. Primer Paint: SSPC Paint 25, gray color. E. Non-Shrink Grout: Premixed, consisting of non-metallic aggregate, cement, water reducing and plasticizing agents; minimum 7,000 PSI compressive
- strenath at 28 days. F. Welding Materials: AWS DI.I/DI.IM, type required for materials being welded.
- 2.3 FABRICATION A. Fabricate structural steel in accordance with AISC Manual. B. Welding: AWS DI.I/DI.IM. Stress relieve welded assemblies by heat
- C. Where collection of water inside structural tubing could occur, provide drain hole at lowest point.

D. Cap open ends of tubes and seal weld. Wherever practical, weld

- connections all around. Seal seams that cannot be practically welded with joint sealer.
- E. Shop Painting:
- 1. Shop prime steel surfaces except: a. Surfaces to be welded. b. Contact surfaces of high strength friction type bolted connections.
- c. Surfaces to receive direct-applied fireproofing. 2. Surface preparation: SSPC Method SP2 - Hand Tool Cleaning or Method SP3 - Power Tool Cleaning.
- 3. Application: One coat; follow coating manufacturer's instructions. 4. Minimum dry film thickness: 2.0 mils.

after assembly but before fastening.

with plug welds.]

3.3 FIELD QUALITY CONTROL

- PART- 3 EXECUTION 3.I ERECTION OF STEEL FRAMING
- A. Erect structural steel in accordance with AISC Specifications. B. Accurately assemble to lines and elevations indicated, within specified
- erection tolerances. C. Alian and adjust members forming parts of complete frame or structure
- D. Provide temporary shoring and bracing members with connections of sufficient strength to resist imposed loads E. Align column bases with leveling plates.
- F. Align bearing plates with wedges or shims. G. Fasten splices of compression members after abutting surfaces have been brought completely into contact.
- H. Clean bearing surfaces and surfaces that will be in permanent contact before members are assembled Locate splices only where indicated. J. Tighten erection bolts and leave in place or remove bolts and fill holes
- K. Do not correct fabrication by gas cutting on major members. L. Welding to conform to AMS DI.I/DI.IM. M. Remove temporary shoring and bracing members after permanent members
- are in place and final connections have been made. N. Installation Tolerances: . Maximum variation from plumb: 1/4 inch per story, noncumulative.
- 2. Maximum variation from level: 1/4 inch in 10 feet, noncumulative. 3. Maximum offset from alignment of adjacent members: 1/4 inch. 3.2 PLACEMENT OF GROUT A. Remove loose and foreign matter from concrete; lightly roughen bonding
- B. Remove foreign materials from steel surfaces; align and level members in final position.
- C. Just prior to grouting, thoroughly wet concrete surfaces; remove excess D. Mix grout in accordance with manufacturer's instructions. Do not retemper.
- E. Place grout continuously, by most practical means; avoid entrapped air. Do not vibrate grout. F. Do not remove leveling shims for at least 48 hours after grouting. After removing shims, fill voids with sand-cement grout.
- A. Testing and Inspection Services: 1. Inspect steel elements for conformance to specified requirements including:

Specification and as follows:

a. Visually inspect welds.

 a. Location and adequacy of bracing. b. Location and set of anchor bolts and other inserts.

c. Alignment, plumb, camber, and other required attributes.

2. Inspect high strength bolted construction in accordance with AISC

- a. Visually inspect high strength bolted connections. b. Check at least two bolts of every third connection with calibrated torque wrench for proper torque.
- 2.I MANUFACTURERS A. Acceptable Manufacturers:
- 3. Inspect field welds in accordance with AMS DI.I/DI.IM and as follows:

- b. Test full penetration welds by ultrasonic method in accordance with
- ASTM EI64. 4. Make one set of six test cubes for each 1/3 cubic yard of grout placed or fraction thereof:
- a. Mold and test cubes in accordance with ASTM CIO9; three at 7 days
- and three at 28 days.

b. Restrain grout from expansion by use of top plate. 3.4 ADJUSTING

A. Touch up bolt heads, nuts, field welds, and abrasions in shop coating with same primer used in shop.

SECTION 05 2100 - STEEL JOIST FRAMING

PART- I GENERAL

- I.I SUMMARY
- A. Section Includes: Open web steel joists and joist girders.
- 2. Bridging and attached seats.

Materials.

- 1.2 SUBMITTALS A. Submittals for Review:
 - 1. Shop Drawings:
 - a. Include joist identification numbers, types, locations spacings; bridging; and attachments.
 - b. Joists for which standard load tables are not applicable: Bear seal of structural engineer licensed in State in which project is located. 2. Sustainable Design Submittals: Recycled Content and /or Regional
- I.3 QUALITY ASSURANCE A. Fabricator and Erector Qualifications: Minimum 5 years documented experience in work of this Section.
- B. Welder Qualifications: AWS DI.I/DI.IM 1.4 DELIVERY, STORAGE AND HANDLING A. Store joists off ground; prevent contact with adjacent joists.
- B. Prevent damage to painted surfaces. PART- 2 PRODUCTS
- 2.I MANUFACTURERS A. Acceptable Manufacturers:

A. Steel Shapes:

drawings.

1. As shown on drawings

ASTM A36/A36M.

- 2. Canam Group, Inc. (<u>mmm.canam-steeljoists.ms</u>) 3. Vulcraft Div., Nucor Corp. (<u>mmm.vulcraft.com</u>)
- A. Substitutions: Permitted, upon review and acceptance by architect or structural engineer. 2.2 MATERIALS
- 2. Recycled content: Minimum 30 percent recycled steel, with minimum 15 percent classified as post-consumer.
- 2.3 ACCESSORIES A. Bolts, Nuts, and Washers: ASTM A307. B. Primer Paint: SSPC Paint 15, Type 1, gray color.
- C. Welding Materials: AMS DI.I/DI.IM; type required for materials being welded. 2.4 FABRICATION A. Fabricate joists to SJI Series K requirements, unless otherwise noted on
- B. Provide end extensions where indicated. C. Frame special sized openings in joist chord framing as indicated.
- D. Provide bracing, bridging, anchors, connectors, and other accessories. E. Shop Painting: Shop prime steel surfaces except:
- a. Surfaces to be welded. b. Surfaces to receive direct-applied fireproofing.

3. Application: One coat; follow coating manufacturer's instructions.

- 4. Minimum dry film thickness: 1.5 mils. PART- 3 EXECUTION
- 3.1 ERECTION A. Erect joists and accessories in accordance with SJI Specifications. B. Provide for distribution of concentrated loads incurred during erection. C. Complete bridging and permanently fasten joists in place before applying

2. Surface preparation: SSPC SP2 - Hand Tool Cleaning or SP3 - Power

- D. Welding to conform to AWS DI.I/DI.IM. E. Erect joists to elevations, lines, and spacings indicated F. Coordinate placement of anchors in other construction for securing bearing
- plates and wall attachments 6. Frame openings greater than 18 inches with supplementary framing.
- H. Position and field weld joist chord extensions and wall attachments. 3.2 FIELD QUALITY CONTROL A. Testing and Inspection Services:
- I. Inspect joists for conformance to specified requirements: a. Verify placement including location, alignment, and bearing.
 - b. Inspect joist-to-seat and seat-to-support welds in accordance with AWS DI.I/DI.IM.

A. Touch Up: Clean welds and abrasions after erection; touch up with same

primer as originally applied.

<u>SECTION 05 3113 - STEEL FLOOR DECKING</u>

loads except as necessary for erection.

- PART- I GENERAL I.I SUMMARY
- A. Section Includes: 1. Steel floor deck
- 1.2 SUBMITTALS A. Submittals for Review: 1. Shop Drawings: Indicate decking plan, support locations, projections through decking, openings, pertinent details, and accessories.
- B. Sustainable Design Submittals: Recycled Content, Regional Materials 1.3 QUALITY ASSURANCÉ A. Manufacturer and Installer Qualifications: Minimum 5 years documented experience in work of this Section.

B. Design Requirements: Design decking including layout, spans, fasteners, and joints under supervision of a Professional Structural Engineer experienced

A. Store decking off ground at site, with one end elevated to provide

ASTM A653/A653M, Structural Quality, 690 coating class.

2. Recycled content: Minimum 30 percent, with minimum 15 percent classified

2. Product Data: Provide deck profile, characteristics, dimensions,

in this work and registered in the State in which the project is located. C. Welder Qualifications: AMS DI.3/DI.3M. D. Perform work in accordance with SDI Manual.

structural properties, and finish

drainage; protect with waterproof covering, properly vented. PART- 2 PRÓDUCTS

2. Cordeck. (<u>www.cordeck.com</u>)

1. See drawings

I.4 DELIVERY, STORAGE, AND HANDLING

3. Epic Metals Corp. (<u>www.epicmetals.com</u>) 2.2 MATERIALS A. Galvanized Steel Sheet:

PART- 3 EXECUTION 3.I INSTALLATION

2.3 ACCESSORIES

neldeā.

2.4 FABRICATION

instructions and approved Shop Drawings. B. Lap ends 3 to 5 inches. Center laps over supports.

A. Touch Up Paint: SSPC Paint 20, Type I or II.

B. Fasteners: Hot-dip galvanized coated steel, self-tapping.

A. Fabricate deck and accessories to SDI Design Manual.

C. Minimum Material Thickness: Gage as indicated on drawings, excluding finish.

G. Form units to span three or more supports, with lapped ends and nesting

H. Accessory Strips: Fabricate of sheet steel of same type as deck units.

A. Install decking and accessories in accordance with manufacturer's

B. Deck Type: Standard corrugation configuration.

E. Nominal Depth: As called for on drawings.

D. Formed Sheet Width: 24 inches

F. Side Joints: Lapped.

- C. Nest side laps. D. Place flat and square, without warp or deflection.
- E. Provide minimum I-I/2 inch bearing on steel, minimum 4 inch bearing on other
- F. Mechanically fasten decking to supporting members. 6. Mechanically fasten side laps between adjacent deck units at maximum 18
- inches on center. H. Cut and fit deck units and accessories at perimeter and around projections and openings. Make cuts neat and trim.
- openings, upturned to top of slab. Provide stops of sufficient strength to remain stationary under weight of wet concrete without distortion. Weld

I. To contain wet concrete, install stops at edges and around projections and

- J. Install metal closure strips at open ends and edges of decking and in voids between decking and other construction. Weld strips in place.
- K. Provide minimum 6 inch wide cover strips where deck changes direction. Meld strips in place.
- A. Testing and Inspection Services: 1. Inspect decking for conformance to requirements of Contract Documents, including:

b. Deck placement and alignment. c. Fastener types, locations, quantities, and placement.

3.2 FIELD QUALITY CONTROL

a. Deck type and gage.

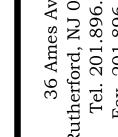
units and supporting steel members.

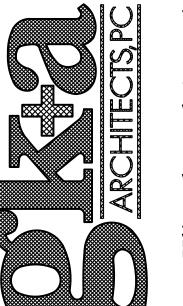
recommended by manufacturer.

3.3 ADJUSTING A. Touch Up: I. Wire brush and clean scarred areas, welds, and rust spots on decking

2. Touch up galvanized coatings with galvanizing repair paint; apply as

C. Welding Materials: AMS DI.3/DI.3M; type required for materials being





E)

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SPECIFICATIONS (CONT.

2 of 7

3.8 ADJUSTING A. Clean and touch up galvanized coatings at welded and abraded surfaces in

SECTION 06 1100 - FRAMING AND SHEATHING

A. Lumber Grading Agency: Certified to NIST PS 20.

B. Identify lumber and sheet products by official grade mark.

1.2 DELIVERY, STORAGE AND HANDLING

A. Store materials minimum 6 inches above ground on framework or blocking

C. Protect edges and corners of sheet materials from damage.

for composite wood.

1. Boise Cascade Corporation.

3.LP Corp. 4. Redbuilt.

Boise Cascade Corporation.

4. Western Wood Structures, Inc. 5. Weyerhauser.

1. CertainTeed Corp.

A. In accordance with ASTM CIOO7.

H. Welder Qualifications: AWS DI.3/DI.3M.

PART-2 PRODUCTS

1.4 DELIVERY, STORAGE, AND HANDLING

F. Design joist system to withstand:

2.I MATERIALS

PART- I GENERAL

.2 SUBMITTALS

A. Section Includes

3. Steel soffit framina

A. Submittals for Review:

accessories.

.3 QUALITY ASSURANCE

this Section.

Specifications.

2. Reaional Materials.

5. Steel stud truss framing.

B. Sustainable Design Submittals:

Load-bearing steel stud exterior wall framing.

Recycled Content and / or Regional Materials

A. Manufacturer: Current member of SFIA or SSMA.

E. Design exterior wall stud sustem to withstand:

2. Wind pressure loads in accordance with ASCE T

5. Minimum 1/2 inch vertical deflection of structure.

4. Steel floor and ceiling joist framing.

fastenings, and pertinent details.

2. Non-load-bearing steel stud exterior wall framing.

1. Shop Drawings: Indicate framing layout, components, connections,

2. Product Data: Indicate framing components, sizes, materials, finishes, and

B. Installer Qualifications: Minimum 5 years documented experience in work of

C. Calculate structural properties of framing members in accordance with AISI

Engineer with minimum 2 years documented experience in the work of this

3. Movement caused by an ambient temperature range of 120 degrees F

4. Maximum deflection under loading: L/240 without sheathing materials.

2. Maximum deflection under loading: L/240 without decking materials.

6. Design system to accommodate construction tolerances, deflection of

D. Design framing under the direct supervision of a Professional Structural

Section and licensed in the State in which the Project is located.

Live and dead loads in accordance with Building Code.

and a surface température range of 160 degrees F.

1. Live and dead loads in accordance with Building Code.

buildina structural members, and clearances at openings.

I.I SUMMARY

A. Framing Materials:

I. ASTM A653/A653M or A1003/A1003M, galvanized sheet steel, G60

2. Recycled content: Minimum 30 percent, with minimum 15 percent classified as post-consumer.

3. Fabricate components to ASTM C955.

4. Studs and joists: SSMA stud profile, C-shaped, punched for utility access.

5. Tracks:

a. SSMA stud track profile, C-shaped, same gage and depth as studs, unpunched.

b. Top track: Deflection type, deep leg track with slotted screw holes; permit plus or minus 1/2 inch movement of overhead structure without damage to framing.

c. Top and bottom track: I-1/4 inch high legs. d. Rim track: Provide closure for ends of joists.

2.2 ACCESSORIES

A. Bracing, Furring, Bridging and Web Stiffeners: Formed sheet steel, thickness determined by performance requirements specified.

B. Plates, Gussets, Clips: Formed sheet steel, thickness determined by performance requirements specified.

C. Fasteners: ASTM CI5I3; self-drilling, self-tapping screws.

D. Touch Up Paint: SSPC Paint 20, Type I or II. E. Welding Electrodes: AMS DI.3/DI.3M; type required for materials being

2.3 FABRICATION

A. Prefabricate framing components using templates. Field fabrication prohibited except for minor alterations to accommodate site conditions.

B. Cut members square and with tight fit to adjacent framing.

C. Assemble components using screw connection, welding, or clinching methods. Welding to conform to AWS DI.3/DI.3M.

D. Fabricate straight, level, and true, without warp or rack.

E. Fabrication Tolerances: In accordance with ASTM C955.

PART- 3 EXECUTION 3.I INSTALLATION - GENERAL

A. Install framing components in accordance with ASTM C1007, manufacturer's instructions, and approved Shop Drawings.

B. Welding: In accordance with AWS DI.3/DI.3M.

C. Make provisions for erection stresses. Provide temporary alignment and

3.2 INSTALLATION - AXIALLY LOADED STUD FRAMING

A. Place top and bottom tracks in straight lines with ends butted. Fasten tracks as indicated.

B. Place studs at spacing indicated and not more than 2 inches from abutting walls and at each side of openings

C. Connect studs to top and bottom tracks.

D. Construct corners using minimum of three studs.

E. Do not splice studs.

F. Erect, brace, and reinforce stud framing to develop strength to achieve design requirements.

6. Install headers above openings and intermediate studs above and below

openings to align with wall stud spacing.

H. Install framing between studs for attachment of mechanical and electrical

items, and to prevent stud rotation. I. Diagonally brace walls at location indicated for shear construction. 3.3 ADDITIONAL INSTALLATION INFO FOR NON-AXIALLY LOADED STUD FRAMING

A. Install deflection compensating top track at framing extending to underside

of structure. B. Laterally brace walls at locations indicated.

3.4 INSTALLATION - JOISTS

A. Place joists at spacings indicated and not more than 2 inches from abutting walls. Connect members to supports using fastener method.

B. Set members parallel and level; install lateral bracing and bridging where

C. Locate joists directly over bearing studs or provide load distribution

D. Provide additional joists under parallel partitions when partition length exceeds one-half of joist span and around openings that interrupt one or more joists.

E. Do not splice joists.

F. Provide web stiffeners at reaction points and points of concentrated

6. Provide end blocking where joist ends are not otherwise restrained from rotation.

3.5 INSTALLATION - TRUSSES

A. Place trusses at spacings indicated. B. Make provisions for erection stresses. Provide temporary alianment and

C. Set trusses parallel and level; install lateral bracing and bridging as

required.

3.6 INSTALLATION TOLERANCES A. In accordance with ASTM Cl007.

3.7 FIELD QUALITY CONTROL

accordance with AMS DI.3/DI.3M.

accordance with ASTM A780, Annex A2.

PART- I GENERAL I.I QUALITY ASSURANCE

C. Fire Retardant Treated Products: Bear label of recognized independent testing laboratory indicating flame spread rating of 25 or less, tested to ASTM E84.

and cover with protective waterproof covering providing for adequate air

B. Do not store seasoned or treated materials in damp location.

I.3 WARRANTIES A. Provide manufacturer's 10 year warranty against rot and termite damage

PART- 2 PRODUCTS 2.I MANUFACTURERS

A. Acceptable Manufacturers - Laminated Veneer Lumber: 2. Georgia-Pacific Corporation.

B. Acceptable Manufacturers - Prefabricated Wood | Joists:

2. Georgia-Pacific Corporation. 3.LP Corp.

C. Acceptable Manufacturers - Composite Wood:

2.Trex Co. D. Substitutions: Under provisions of Division Ol.

2.2 MATERIALS A. Dimension Lumber: I. Gradina rules: NELMA.

2. Species: As described on drawings 3. Grade: As described on drawings.

4. Surfacing: Surfaced four sides (545) unless otherwise indicated. 5. Maximum moisture content: 19 percent.

B. Laminated Veneer Lumber: I. Fabricated by laminating wood veneers under pressure using exterior type adhesive with grain of veneers parallel with length.

2. Veneer: Douglas Fir or Southern Pine. C. Prefabricated Wood | Joists: I. Fabricated by bonding stress graded lumber flanges to webs with

exterior type adhesive. 2. Flange material: Laminated veneer lumber. As standard with joist manufacturer.

3. Web material: As standard with joist manufacturer. D. Composite Joists and Headers:

1. Fabricated by laminating wood veneers to narrow oriented strand board to produce rectangular members with veneers making up not less than 32 percent of total cross section.

E. Composite Wood: 1. Extruded product consisting of polyethylene and wood fibers with integral

2.Color: To be selected from manufacturer's full color range. F. Sheet Products:

. Type: APA Plywood.

a. Floor, wall and roof sheathing: APA Rated Sheathing b. Combination subfloor/underlayment: APA Sturd-I-Floor.

3. Exposure: a. Exterior applications: Exterior. b.Interior applications: Interior.

c. Underlayment: APA Underlayment.

2.3 ACCESSORIES A. Anchor Bolts: ASTM F1554.

B. Fasteners:

2.4 FABRICATION

. Type and size: As required by conditions of use. 2.Exterior locations and treated products: Hot-dip galvanized steel, ASTM

3. Other interior locations: Plain steel. C. Metal Connectors / Joist Hangers: I. Galvanized steel, ASTM A653/A653M.

2. Size and shape: To suit framing conditions. D. Subflooring Adhesive:

l. Waterproof, water based, air cure type, in cartridge dispensers. E. Sill Gasket: 1/4 inch thick, plate width, closed cell polyethylene or urethane foam from continuous rolls. F. Termite Shield: Galvanized sheet steel, minimum 26 gage.

A. Preservative Treatment:

I. Treat lumber and sheet products in accordance with AMPA UI: a.Interior locations protected from moisture sources: Category UCI -Interior/Dry. b.Interior locations subject to sources of moisture: Category UC2 -

Interior/Damp c. Exterior locations above ground: Category UC3A - Above Ground/Protected.

d. Exterior locations in contact with ground: Category UC4A - Ground Contact/General Use. 2. Treatment process: Type MCA - Micronized Copper Azole.

B. Fire Retardant Treatment; treat lumber and sheet products in accordance with AMPA UI:

I. Interior locations: Category UCFA - Fire Retardant/Interior. 2. Exterior locations: Category UCFB - Fire Retardant/Exterior.

PART- 3 EXECUTION 3.1 INSTALLATION

F. Joist Framing:

A. Set members level, plumb, and rigid. B. Make provisions for erection loads, and for temporary bracing to maintain structure safe, plumb, and in true alignment until completion of erection and

installation of permanent bracing C. Place beams, joists, and rafters with crown edge up.

D. Construct load bearing framing members full length without splices.

1. Place full width continuous sill flashings under framed walls on cementitious foundations. Lap flashing joint 4 inches. 2. Place sill gasket directly on sill flashing. Fit tight to protruding foundation

anchor bolts. 3. Anchor sills to foundation with anchor bolts, expansion fasteners or power driven fasteners.

1. Provide minimum 1-1/2 inches of bearing. 2. Lap members framing from opposite sides minimum 4 inches. 3. Construct double joist headers at floor and ceiling openings and under

fasteners or power driven fasteners.

4. Bridge joists at mid span for spans in excess of 8 feet. G. Stud Framing: I. Provide single bottom plate and double top plates for load bearing

2. Provide single bottom and top plates for non-load bearing partitions. 3. Anchor bottom plates to concrete structure with anchor bolts, expansion

wall stud partitions that are parallel to floor joists. Frame rigidly into

5. Anchor stude abutting masonry or concrete with togale or expansion

6. Frame openings with double studs and headers. Space short studs over and under opening to stud spacing. 7. At corners, provide diagonal 1×4 inch bracing; notch studs to fit.

H. Rafter Framina: I. Notch to fit exterior wall plates.

2. Double rafters at roof openings; support with metal hangers. 3. At ridge, place rafters directly opposite each other and secure to ridge 4. At hips and valleys, bevel ends for bearing against hip or valley rafter.

5. Locate collar ties at every third pair of rafters, one third of the distance to ceiling joists; cut ends to fit slope and secure to rafters.

. Provide minimum end bearing of 4 inches. 2. Nail built-up members with two rows of nails spaced 6 inches on center

1. Place decking to span two or more supports, with ends occurring over 2. Stagger end joints in adjacent rows. 3. Secure to each support with 2 fasteners.

J. Lumber /Composite Wood Decking:

K. Roof Sheathing: 1. Place panels perpendicular to framing members with ends staggered and sheet ends over firm bearing. 2.Install sheathing clips between adjacent sheets between roof framing

3. Leave 1/8 inch expansion space at panel ends and edges 4. Secure to supports with nails or screws spaced maximum 6 inches on center along edges and maximum 12 inches on center in field of panels. L. Wall Sheathing:

1. Place panels parallel to framing members, with ends over firm bearing. 2. At corners, place sheathing for a horizontal distance of 48 inches. 3. Leave 1/8 inch expansion space at panel ends and edges. 4. Secure to supports with nails or screws spaced maximum 6 inches on center along edges and maximum 12 inches on center in field of panels.

M. Floor Decking: I. Place panels perpendicular to framing members, with ends over firm bearing and staggered. 2. Leave 1/8 inch expansion space at panel ends and edges.

3. Secure to supports with nails or screws spaced maximum 12 inches on

center along edges and in field of panels. N. Subflooring: I. Install flooring underlayment after dust and dirt generating activities have ceased and prior to application of finished flooring.

2. Install building felt between floor decking and subflooring

3. Apply perpendicular to decking; stagger joints of underlayment in adjacent rows. 4. Leave 1/8 inch expansion space at panel ends and edges. 5. Secure to supports with adhesive and nails spaced maximum 6 inches on center along edges and maximum 12 inches on center in field of panels.

O. Provide blocking, nailers, grounds, furring, and other similar items required to receive and support work. P. Curb roof openings except where prefabricated curbs are provided. Form corners by alternating lapping side members.

Q. Install telephone and electrical panel backboards where indicated: Oversize panel by 12 inches on all sides. R. Treat field cuts and holes in preservative treated members providing structural support in accordance with AMPA M4.

A. Framing Members: 1/4 inch from true position, maximum. B. Surface Flatness of Floor: 1/4 inch in 10 feet maximum.

SECTION 06 1643 - GYPSUM SHEATHING

PART- I GENERAL Not used. PART- 2 PRODUCTS

A. Exterior Sheathing

2.I MANUFACTURERS A. Acceptable Manufacturers: 1. GP Gupsum Corporation. (<u>www.gp.com</u>) 2. National Gypsum Co. (<u>www.nationalgypsum.com</u>)

3.USG Corporation. (<u>www.usg.com</u>) B. Substitutions: Under provisions of Division Ol. 2.2 MATERIALS

I. Type: ASTM Cl396; 24 inches wide \times 1/2 or 5/8 inch thick (as described in drawings), maximum practical length, ends square cut, tongue and groove 2.3 ACCESSORIES

A. Fasteners: ASTM C1002, Type W or S screws, or ASTM C514, drywall nails, hot-dip galvanized or fluoropolymer coated steel, minimum 5/8 inch penetration into framing.

PART- 3 EXECUTION 3.I INSTALLATION A. Install in accordance with ASTM CI280 and manufacturer's instructions. B. Accurately cut panels to fit around openings and projections.

C. Apply panels horizontally, tongue edge up, with ends occurring over supports. Stagger end joints in adjacent rows. D. Apply panels vertically, with ends and edges occurring over supports. E. Fasten panels to framing at maximum 8 inches on center. Place fasteners minimum 3/8 inch from edges of panels; drive heads flush with surface.

<u>SECTION 07 2115 - BATT INSULATION</u>

Stagger fasteners at abutting edges.

PART- I GENERAL

I.I QUALITY ASSURANCE

A. Noncombustible, tested to ASTM El36. B. Flame spread/smoke developed rating of 25/50 or less, tested to ASTM

1.2 DELIVERY, STORAGE AND HANDLING A. Store insulation in clean, dry, sheltered area, off ground or floor, until used. Protect against wetting and moisture absorption.

1.3 PROJECT CONDITIONS A. Do not install insulation until building is substantially water and weather

tight. PART- 2 PRODUCTS

3.I INSTALLATION

2.I MATERIALS A. Type: ASTM C665, glass fiber composition. B. Facing: Unfaced, Foil/scrim/Kraft, Kraft paper as per drawings on one side

and vapor barrier on one side. C. Stapling flanges: Stapling flanges on both edges. D. Thermal resistance: Refer to drawings for thermal resistance. 2.2 ACCESSORIES

A. Tape: Minimum 2 inches wide, pressure sensitive waterproof. B. Fasteners: Hot-dip galvanized steel staples, or nails type best suited to application, minimum 5/8 inch penetration into framing C. Impale Fasteners: Steel impaling fasteners on metal base with lock

washers, length to suit insulation thickness. D. Wire Mesh: Hexagonal steel wire, galvanized. PART- 3 EXECUTION

12 inches on center or retain in place with wire mesh secured to framing or place impale fasteners with 4 inches of edges of boards and maximum 24 inches on center. Apply insulation and secure with lock washers. B. Butt insulation to adjacent construction. Butt ends and edges.

C. Carry insulation around pipes, wiring, boxes, and other components

D. Ensure complete enclosure of spaces without voids.

A. Friction fit between framing members or staple or nail in place at maximum

E. Apply with vapor barrier facing towards interior of structure. F. Tape seal lapped flanges, buttends, and tears and holes in facings.

SECTION 07 2200 - ROOF INSULATION

PART- I GENERAL I.I SUMMARY

A. Section Includes: I. Rigid roof insulation.

2.Cover board.

I.2 SYSTEM DESCRIPTION A. Design Requirements: Design roofing system to resist minimum wind loads in accordance with ASCE 7. I.3 SUBMITTALS

A. Submittals for Review:

1.5 DELIVERY, STORAGE AND HANDLING

I. Product Data: Manufacturer's descriptive data including thermal values.

B. Sustainable Design Submittals: 1. Recycled Content and / or Regional Materials. 1.4 QUALITY ASSURANCE

A. Installer Qualifications: Minimum 5 years' experience in work of this Section. B. Roof Insulation Attachment: Conform to requirements for FM I-60 Windstorm Classification.

A. Protect materials against moisture absorption, direct sunlight, damage, and temperatures above 110 degrees F and below 40 degrees F B. Store materials off ground or roof deck on pallets. Cover materials stored outside with breathable covering, properly vented.

PART- 2 PRODUCTS

2.I MANUFACTURERS A. Acceptable Manufacturers- Insulation:

3. Hunter Panels. (www.hpanels.com)

I. As noted on drawings 2. Atlas Roofing Corporation. (www.atlasroofing.com)

4. Rmax. (www.rmaxinc.com) B. Acceptable Manufacturers - Cover Board:

 As noted on drawings 2.GP Gupsum Corporation. (www.gp.com) 2.2 MATERIALS

A. Rigid Roof Insulation: I. Type: ASTM C1289, Type I, Class I, rigid polyisocyanurate faced both sides with aluminum foil facings.

2. Edges: Square. 3. Thermal resistance: Minimum R value of 30.

2.3 ACCESSORIES A. Fasteners: Hot-dip galvanized or fluoropolymer coated steel, approved by FM, type and length suited to project conditions, with galvanized steel

PART- 3 EXECUTION 3.1 INSTALLATION OF INSULATION

> B. Fit insulation to other boards and at perimeter and around penetrations with maximum 1/4 inch voids. C. Mechanically fasten to substrate in manufacturer's recommended fastening pattern.

A. Apply top layer with long edges perpendicular to those of base layer, with

joints staggered in adjacent rows. Offset joints from those in base layer.

1.2 TOLERANCES A. Surface Flatness of Insulation: Plus or minus 1/4 inch in 10 feet maximum.

SECTION 07 2400 - EXTERIOR INSULATION AND FINISH SYSTEM PART- I GENERAL

I.I SUMMARY A. Section Includes:

Moisture barrier.

2. Composite wall cladding of rigid insulation and applied coating. 3. Trim and accessories. 1.2 SYSTEM DESCRIPTION

B. Fire Hazard Classification: Maximum flame spread/smoke developed rating of 25/450, tested to ASTM E84. I.3 SUBMITTALS

A. Submittals for Review: 1. Shop Drawings: Indicate joint layout and dimensions, system penetration details, and termination details. 2. Product Data: Include primary and secondary product descriptions,

A. System Classification: EIMA Class PB, High impact resistance.

application instructions, performance criteria, and list of sealants approved for use with system.

C. Sustainable Design Submittals:

work of this Section.

3. Warranty: Sample warranty form. B. Quality Control Submittals: 1. Certificates of Compliance: a. Manufacturer's certification that installed system complies with

requirements of Contract Documents. b. Certificate of approval by Code authorities having jurisdiction over c. Certification from an independent testing laboratory that system

meets fire hazard classification requirements.

l. Regional Matérials. 1.4 QUALITY ASSURANCE A. Furnish EIFS system components from single manufacturer. B. Manufacturer Qualifications: Minimum 15 years documented experience in

temperature between 40 and 90 degrees F.

C. Installer Qualifications: Minimum 5 years documented experience in work of this Section. 1.5 DELIVERY, STORAGE AND HANDLING

A. Store adhesives and coatings in protected, dry area until used, at

1.6 PROJECT CONDITIONS A. Do not apply adhesives and coatings if: 1. Ambient temperature is below 40 degrees F, or is expected to fall below that temperature within 24 hours after application.

2. Relative humidity is above 85 percent and surface temperature is lower

than 5 degrees F below dew point. 3. Wind velocity is over 20 MPH. 1.7 WARRANTIES A. Furnish manufacturer's 5-year warranty providing coverage against air and

2.I MANUFACTURERS A. Acceptable Manufacturers:

2. Edges: Square.

4. Parex, Inc. (<u>www.parex.com</u>)

5. Sto Corp. (<u>www.stocorp.com</u>)

PART- 2 PRODUCTS

I. As listed on drawings 2. BASF Wall Systems, Inc. (www.wallsystems.basf.com) 3. Dryvit System, Inc. (<u>www.dryvit.com</u>)

water leakage through EĪFS system.

2.2 MATERIALS A. Moisture Barrier: Fluid-applied type; system manufacturer's standard B. Adhesive: Acrylic based; type recommended by system manufacturer.

C. Finish Coat: EIMA Class PB; polymer base, texture and color as noted on the drawings. D. Rigid Insulation: I. ASTM C578, Type I, molded, closed cell extruded polystyrene, slotted on back side for drainage.

treated for improved bond with coating, tested to ASTM E2098 and

3. Thermal resistance: Minimum R value of 8. E. Reinforcing: Glass fiber mesh, balanced open weave, alkaline resistant,

classified to EIMA impact classification.

1. High impact mesh: Minimum 14.0 ounces per square yard. 2. Corner mesh: Minimum 20.0 ounces per square yard.

2.3 ACCESSORIES

A. Trim: 1. Extruded PVC, perforated attachment flanges, of longest practical

2. Corner bead: Beaded edge, size and profile to suit application.

3. Casing bead: Thickness governed by system thickness, square edge. 4. Drainage casing: Thickness governed by system thickness, square edge,

perforated for drainage 5. Control joint: Accordion profile with minimum 2 inch flanges each side, with attachment flanges

minimum I inch diameter washers, minimum 5/8 inch penetration into framing, of type recommended by system manufacturer. C. Trim Fasteners: Hot-dip galvanized or fluoropolymer coated steel, type recommended by system manufacturer.

B. Insulation Fasteners: Hot-dip galvanized or fluoropolymer coated steel with

2.4 MIXES A. Base and Finish Coat: In accordance with manufacturer's instructions.

3.2 APPLICATION OF INSULATION AND REINFORCING

D. Water: Clean and potable.

PART- 3 EXECUTION 3.1 APPLICATION OF MOISTURE BARRIER

A. Apply moisture barrier in accordance with manufacturer's instructions. B. Apply moisture barrier by roller to continuous and uniform coverage with

minimum mil thickness as recommended by manufacturer. C. Completely joint compound applied at cracks, joints, perimeter, and penetrations with moisture barrier.

instructions. B. Adhere insulation to substrate with full adhesive bed applied using notched trowel, with drainage channels running vertically.

A. Install system in accordance with ANSI/EIMA 99A and manufacturer's

I. Install insulation in most economical manner, with joints offset joints from those in substrate. 2. Stagger end joints in adjacent rows minimum 12 inches.

3. Cut panels to fit at perimeter and around penetrations. 4. Press to full contact with adhesive without restricting drainage behind

C. Apply minimum I/16 inch layer of adhesive over insulation board.

D. Fully embed reinforcement in adhesive, wrinkle free. E. Lap ends and edges 2 inches minimum. F. Wrap reinforcement and adhesive around insulation edge at reveals, control joints and where system abuts dissimilar materials or stops with edge

exposed [, except at bottom edges] 6. Install high impact mesh up to 10 feet above grade or paving. H. Install corner mesh for minimum 12 inches on both sides of external corners.

I. Install drainage casing at wall base, at each floor line and over openings in walls. Seal corners and intersections. 3.3 APPLICATION OF FINISH COAT

3.4 ADJUSTING

A. Apply in accordance with manufacturer's instructions. B. Work in continuous operation in each panel formed by trim and intersections to ensure even texture.

D. Apply to uniform texture and color without streaks, laps, heavy buildups, and

C. Cut edges in clean and sharp where work joins other materials.

missed areas. E. Ensure consistent application and uniform appearance.

A. Touch up finish coat as required to obtain uniform texture.

G)

SPECIFICATIONS (CONT 08/05/22 Checked By:

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SECTION 07 6500 - FLEXIBLE FLASHINGS

PART- I GENERAL

I.I SUMMARY

- A. Section Includes 1. Sheet applied materials for controlling moisture movement at exterior wall assemblies. 1.2 REFERENCES
- A. Air Barrier Association of America (ABAA) (www.airbarrier.org) Quality Assurance Program.

B. ASTM International (ASTM) (<u>www.astm.org</u>):

- . D41 Standard Test Method for Rubber Properties in Tension. 2. D226 - Standard Specification for Asphalt Saturated Organic Felt Used
- in Roofing and Waterproofing. 3. D412 - Standard Test Method for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers - Tension.

I.3 QUALITY ASSURANCE

A. Provide continuous barrier to moisture infiltration, air infiltration and exfiltration, and water vapor transmission, flashed to discharge incidental condensation and water penetration.

B. Installer Qualifications: 1. Minimum 2 years documented experience in work of this Section. 1.4 SUBMITTALS

A. Submittals for Review: I. Product Data: Include manufacturer's descriptive data, technical data, and tested physical and performance properties

PART- 2 PRODUCTS 2.I MANUFACTURERS

A. Acceptable Manufacturers - Sheet Moisture Barriers: I. DuPont. (<u>www.tyvek.com</u>)

2. Griffolyn, Division of Reef Industries. (<u>www.reefindustries.com</u>) 3. Raven Industries. (<u>www.rufco.com</u>)

B. Acceptable Manufacturers - Rubberized Sheet Moisture Barriers: Grace Construction Products. (<u>www.graceconstruction.com</u>) 2. W.R. Meadows, Inc. (<u>www.wrmeadows.com</u>)

3. Polyguard Products, Inc. (<u>www.polyguardproducts.com</u>) C. Substitutions: Not permitted.

2.2 MATERIALS

A. Moisture Barrier: Asphalt impregnated felt, ASTM D226, No. 15, non-perforated.

B. Moisture Barrier:

1. Description: ASTM D1970; minimum 30 mil thick polymer modified asphalt laminated to polyethylene film, self-adhering with release paper facing, specifically formulated for extended high in-service temperatures up to 260 degrees F.

2. Elongation: Minimum 250 percent, tested to ASTM D412.

3. Tensile strength: Minimum 250 PSI, tested to ASTM D412.

4. Water vapor transmission: Maximum O.OI grains per square foot, tested to ASTM E96/E96M. 5. Air permeance: Maximum 0.0002 CFM per square foot at 0.3-inch

water differential pressure, tested to ASTM E2178. 6. Assembly air permeance: Maximum 0.0008 CFM per square foot at

0.3-inch water differential pressure, tested to ASTM E2357. 7. Water leakage: None, tested to ASTM E331 at minimum 6.24 PSF.

2.3 ACCESSORIES

compatible with moisture barrier.

A. Fasteners: Hot-dip galvanized or fluoropolymer coated steel screws with I-inch diameter plastic washers, minimum 5/8-inch penetration into framing. B. Joint Tape: Minimum 2 inches wide, pressure sensitive, waterproof,

C. Flashing Sheet: Self adhering, rubberized asphalt laminated to HPDE facing, minimum 30 mil thick.

PART- 3 EXECUTION

3.I PREPARATION

A. Clean surfaces to receive moisture barrier; remove loose and foreign matter that could impair adhesion or performance.

B. Mechanically fastened: Fasten at maximum 12 inches on center. C. Mechanically fastened: Seal to door and window frames, around

penetrations, and at perimeter with flashing sheet. Press to full bond with substrate without voids, wrinkles, bridging, or fishmouths. D. Self-adhering: Press to full bond with substrate without voids, wrinkles,

bridging, or fishmouths. E. Self-adhering: Seal to door and window frames, around penetrations, and

at perimeter

3.2 FIELD QUALITY CONTROL

A. Inspect moisture barrier for damage just prior to covering.

B. Clean damaged areas and cover with additional moisture barrier material minimum 6 inches larger than damaged area on all sides. Seal to main moisture barrier with continuous tape.

<u>SECTION 07 5400 - THERMOPLASTIC MEMBRANE ROOFING</u>

PART- I GENERAL

I.I SUMMARY A. Section Includes:

> Rigid roof insulation. 2. Cover board.

3. Fully adhered single ply membrane roofing.

4. Base flashings. 5. Expansion joint covers.

6. Walkway pads.

I.2 SYSTEM DESCRIPTION A. Design Requirements: Design roofing system to resist minimum wind loads in accordance with ASCE 7.

I.3 SUBMITTALS A. Submittals for Review:

1. Shop Drawings: Indicate:

a. Setting plan for insulation.

b. Roof slopes.

c. Layout of seams.

d. Base flashing, termination, and special details.

e. Fastener types and locations.

2. Product Data: Manufacturer's product specifications, installation instructions, and general recommendations for each product.

3. Warranty: Sample warranty form. B. Quality Control Submittals:

1. Certificates of Compliance: Certification from an independent testing laboratory that roofing system meets fire hazard and windstorm classification requirements.

C. Sustainable Design Šubmittals: Recycled Content, Solar Reflectance Index, Regional Materials, Low Emittina Materials.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Minimum 10 years [documented] experience in work of this Section. 2. Licensed or certified by roofing materials manufacturer.

1.5 DELIVERY, STORAGE AND HANDLING A. Store materials, other than membrane, in protected, dry area, between 60 and 80 degrees F until used; provide proper ventilation.

B. Protect sheet goods from damage and wetting. 1.6 PROJECT CONDITIONS

A. Do not apply roofing to damp or frozen substrate.

B. Do not apply roofing during inclement weather or at temperatures below 40 degrees F, or above 100 degrees F or if freezing weather is anticipated within 24 hours after application. Do not use frozen materials. PART- 2 PRODUCTS

2.I MANUFACTURERS A. Acceptable Manufacturers - PVC Roofing System:

1. As indicated on drawings

2. Carlisle Syntec, Inc. (<u>www.carlisle-syntec.com</u>) 3. GAF Materials Corp. (<u>www.qaf.com</u>)

4. Johns Manville. (<u>www.jm.com</u>) 5. Sika Sarnafil, Inc. (<u>usa.sarnafil.sika.com</u>)

B. Acceptable Manufacturers - Cover Board:

1. GP Gypsum Corporation. (<u>www.ap.com</u>) 2.2 MATERIALS

A. Rigid Insulation: 1. Type: ASTM C1289, Type I, Class I, rigid polyisocyanurate faced both

sides with aluminum foil facings 2. Thermal resistance: Minimum R value of 30.

B. Roof Membrane: I. Type: ASTM D4434, reinforced plasticized polyvinyl chloride (PVC),

2. Size: Maximum sheet size permitted by application and job conditions.

3. Thickness: 60 mils. 4. Color: White

C. Flashing Sheet: Manufacturer's standard flashing sheet, color to match membrane

2.3 ACCESSORIES A. Induction Welding Plates: Aluminum/zinc alloy coated steel, round, with recessed center and raised flat bonding surface specifically designed for

induction welding applications. B. Accessories: I. By manufacturer of roofing system, including adhesives, tapes, solvents,

sealants, water cutoff mastic, and prefabricated pipe flashinas. 2. Adhesives: Maximum Volatile Organic Compound (VOC) content of 250

grams per liter. C. Walkway Pads: Preformed resilient pads, recommended by roofing

manufacturer, minimum 1/2 inch thick D. Fasteners: Hot-dip galvanized or fluoropolymer coated steel, approved by

roofing system manufacturer, type and length suited to project conditions. E. Insulation Fasteners: Hot-dip galvanized or fluoropolymer coated steel, approved by FM and roofing system manufacturer, type and length suited to

F. Expansion Joint Covers: Type: Neoprene cover over closed cell foam insulation, bonded to galvanized steel flanges, with preformed corners and intersections.

G. Nailers and Curbs: Preservative treated wood.

2. Nailers: 3-1/2-inch face dimension x insulation thickness.

project conditions, with galvanized steel plates.

H. Metal Flashings: Minimum 24 gage sheet metal laminated with PVC membrane. PART- 3 EXECUTION

3.I PREPARATION

A. Remove projections that could puncture membrane from substrate.

B. Clean substrate of loose and foreign material, oil, and grease. C. Complete roof penetrations and preparation for drains, flashings, and other penetrations prior to beginning roofing.

3.2 INSTALLATION - GENERAL A. Install roofing system in accordance with roofing system manufacturer's instructions, NRCA Manual, and approved Shop Drawings.

D. Protect adjacent and underlying surfaces.

3.3 INSTALLATION OF INSULATION A. Apply base layer with long edges continuous and perpendicular to deck

ribs. Stagger end joints in adjacent rows. Locate ends over solid bearing. B. Mechanically fasten to substrate in FM fastening pattern.

C. Apply top layer with long edges perpendicular to those of base layer, with joints staggered in adjacent rows. Offset joints from those in base layer. D. Fit insulation to other boards and at perimeter and around penetrations

with maximum 1/4 inch voids. 3.4 INSTALLATION OF COVER BOARD

A. Apply panels with long edges continuous and perpendicular to direction of insulation. Stagger end joints in adjacent rows. Offset joints from those in insulation. Locate ends over solid bearing.

B. Mechanically fasten to substrate in FM fastening pattern. C. Fit panels to other panels and at perimeter and around penetrations with maximum 1/4 inch voids.

3.5 INSTALLATION OF ROOF MEMBRANE A. Position sheets without stretching; minimize wrinkles. Allow membrane to

relax before proceeding

B. Provide minimum 5-1/2-inch lap at joints between adjacent sheets. C. Splice sheets by heat welding method. D. Bond membrane to substrate with adhesive applied in accordance with

manufacturer's instructions. E. Fasten membrane to perimeter nailers with fasteners spaced 6 inches on center maximum.

F. Daily Seal: Ensure that water does not flow beneath completed sections of roof. 2. Temporarily seal loose edge of membrane with night seal when weather

is threatening. 3. When work is resumed, pull sheet free before continuing installation.

3.6 INSTALLATION OF FLASHINGS A. Construct in accordance with roofing system manufacturer's standard

B. Juncture of Horizontal and Vertical Surfaces:

Use longest practical length flashing to minimize joints. 2. Complete splice between flashing and main roof sheet before bonding flashing to vertical surface. Extend splice 3 inches beyond fasteners that attach membrane to horizontal surface.

3. Adhere flashing to substrate with full bed of adhesive

4. Fasten top of flashing at 12 inches on center maximum, under metal flashina. C. Penetrations through Membrane:

I. Flash pipe with premolded pipe flashings wherever possible. 2. Where molded pipe flashings cannot be installed, use field fabricated

pipe seals. 3. Seal clusters of pipes and unusually shaped penetrations with minimum 2

inch high flashing containing pourable sealer. D. Expansion Joints: 1. Complete roof membrane and flashing installation prior to installing expansion joint.

2. Set joint cover on top of wood nailers; secure on each side through metal flange. 3. Seal joint cover flanges to membrane as for sheet splice.

E. Roof Drains: 1. Taper insulation around drain to provide smooth transition from roof

surface to drain clamping ring. 2. Seal between membrane and drain base with water cutoff mastic. 3.7 INSTALLATION OF WALKWAY PADS

A. Clean underside of pad; set pads in full adhesive bed.

B. Leave 2-inch space between pieces.

SECTION 07 9200 - JOINT SEALERS

PART- I GENERAL

B. Laboratory Pre-Construction Testing:

. Obtain répresentative samples of actual substrate materials. 2. Test sealers and accessories for following

preparation and required primer. with sealers do not adversely affect sealant materials or sealant

PART- I GENERAL

I.I SUMMARY

A. Section Includes: Rubberized asphalt sheet for concealed wall flashings

1.2 REFERENCES A. ASTM International (ASTM) (<u>www.astm.org</u>) D1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.

1.3 SUBMITTALS A. Submittals for Review:

I. Product Data: Manufacturer's descriptive data and installation 1.4 PROJECT CONDITIONS A. Do not apply flashings at ambient or surface temperatures less than 40

PART- 2 PRODUCTS 2.I MANUFACTURERS

dearees f

A. Acceptable Manufacturers:

I. Grace Construction Products. (<u>www.graceconstruction.com</u>) 2. W.R. Meadows, Inc. (<u>www.wrmeadows.com</u>) 3. Polyguard Products, Inc. (<u>www.polyguardproducts.com</u>)

B. Substitutions: Under provisions of Division Ol. 2.2 MATERIALS

A. Rubberized Asphalt Flashings: I. Description: ASTM D1970; minimum 32 mil thick butyl rubber modified asphalt laminated to 8 mil thick cross-laminated HDPE film, release paper facing, self-adhering.

2.3 ACCESSORIES A. Termination Mastic: Type recommended by flashing manufacturer. PART- 3 EXECUTION

3.I INSTALLATION A. Provide flexible flashings in exterior wall assemblies at: Base of walls.

2. Heads of openings in walls. 3. Top of walls under copings.

4. Transitions between materials. 5. Around openings and penetrations through walls. B. Lap ends 4 inches minimum.

C. Press to full bond with substrate without voids, wrinkles, bridging, or fishmouths.

D. Roll ends and edges with hand held roller; ensure tight seal. E. Apply trowel coat of mastic along flashing at top edge, seams, cuts, and penetrations.

<u>SECTION 07 8400 - FIRESTOPPING</u>

PART- I GENERAL

A. Applicator Qualifications: Minimum 5 years' experience in work of this

B. Firestopping: Fire resistance rating of as described on drawings, tested to ASTM E814, ASTM E1966, ASTM E2307, UL 1479, or UL 2079.

C. Submittals for Review: Product Data: Descriptive data and performance attributes for fire

1.2 PROJECT CONDITIONS A. Do not apply sealants, mortars, or putties when temperature of substrate material and surrounding air is below 40 degrees F or is anticipated to drop below that temperature within 24 hours after installation. PART- 2 PRODUCTS

2.I MANUFACTURERS A. Acceptable Manufacturers: 1. Hilti, Inc. (MMM.US.hilti.com)

> 2.3M Fire Protective Products. (www.3m.com) 3. Rectorseal. (www.rectorseal.com) 4. Specified Technologies, Inc. (<u>www.stifirestop.com</u>)

5. Tremco, Inc. (<u>www.tremcosealants.com</u>) B. Substitutions: Under provisions of Division Ol. 2.2 MATERIALS A. Firestopping: One or more of the following:

moisture curing silicone sealant.

2. Ceramic sealant: Single component, moisture curing ceramic sealant.

3. Intumescent sealant: Single component, water based intumescent sealant. 4. Acrylic sealant: Single component acrylic sealant, suitable for painting.

1. Silicone elastomer compound: Single or multiple components, low modulus,

5. Putty: Single component ceramic fiber base putty or intumescent elastomer putty that expands on exposure to surface heat gain. 6. Mortar: Hydraulic cementitious mortar 7. Pillows or blocks: Formed intumescent or mineral fiber pillows or blocks. 8. Intumescent strips: Solvent free intumescent wrap strips.

9. Mechanical devices: Incombustible fillers or silicone elastomer covered with sheet stainless steel jacket, joined with collars, penetration sealed 10. Cast-in-place devices: Containing intumescent material and smoke/water

2.3 ACCESSORIES A. Forming and Damming Materials: As recommended by firestopping

manufacturer for intended use. 1. Permanent: Mineral fiber board, mineral fiber matting, or mineral fiber 2. Temporary: Plywood, particle board, or other.

PART- 3 EXECUTIÓN 3.I PREPARATION A. Prepare openings to receive firestopping as directed by manufacturer: I. Remove incidental and loose materials from penetration opening.

2. Remove free liquids and oil from involved surfaces and penetration 3. Install damming materials to accommodate and ensure proper thickness and fire rating requirements and provide containment during installation.

penetration seal system. 3.2 INSTALLATION A. Install firestopping at perimeter of and penetrations through fire and

4. Remove combustible materials and materials not intended for final

smoke rated assemblies B. Apply materials in accordance with manufacturer's instructions. C. Apply firestopping material in sufficient thickness to achieve required

D. Compress fibered material to achieve a density of 40 percent of its uncompressed density E. Place foamed material in layers to ensure homogenous density, filling

cavities and spaces. F. Place sealant to completely seal junctions with adjacent dissimilar 6. Place intumescent coating in sufficient coats to achieve rating required.

1. Finish exposed surfaces to smooth, flush appearance.

H. Remove dam material after firestopping material has cured.

I.I QUALITY ASSURANCE A. Applicator Qualifications: Minimum 5 years of experience in work of this

a. Adhesion: Test to ASTM C794 and ASTM C719; determine surface

b. Compatibility: Test to ASTM CIO87; determine that materials in contact

c. Staining: Test to ASTM D2203, ASTM C510, or ASTM C1248; determine that sealants will not stain joint substrates.

d. Pre-construction testing is not required when sealant manufacturer furnishes data acceptable to Architect based on previous testing for materials matching those of this Project.

C. Field Pre-Construction Testing: I. Install sealers using joint preparation methods and materials

recommended by sealer manufacturer. 2. When tests indicate sealant adhesion failure, modify joint preparation,

primer, or both and retest until joint passes sealant adhesion test. 1.2 PROJECT CONDITIONS A. Do not apply sealers at temperatures below 40 degrees F unless approved by sealer manufacturer.

I.3 WARRANTIES A. Furnish manufacturer's 10 year warranty providing coverage for exterior sealers and accessories that fail to provide air and water tight seal, exhibit loss of adhesion or cohesion, or do not cure. PART- 2 PRODUCTS

2.I MANUFACTURERS A. Acceptable Manufacturers:

I. BASF Building Systems. (<u>www.buildingsystems.basf.com</u>) 2.Dow Corning Corp. (<u>www.dowcorning.com</u>) 3.GE Silicones. (<u>www.siliconeforbuilding.com</u>)

4. Pecora Corp. (<u>www.pecora.com</u>) 5. Sika Corp. (<u>mmm.sikausa.com</u>) 6. Tremco, Inc. (<u>www.tremcosealants.com</u>) B. Substitutions: Under provisions of Division Ol.

2. Movement capability: Plus or minus 25 percent.

2. Movement capability: Plus or minus 25 percent.

E. Joint Sealer Type 5

2.4 MIXES

PART- 3 EXECUTION

2.2 MATERIALS A. Joint Sealer Type 1. ASTM C920, Grade P, single or multiple component polyurethane type, self-leveling and slope grade

3. Color: To be selected from manufacturer's full color range. B. Joint Sealer Type 2 1. ASTM C920, Grade NS, single or multiple component polyurethane type,

C. Joint Sealer Type 3 1. ASTM C920, Grade NS, single or multiple component silicone type, nonstaining, field tintable, non sag. 2. Movement capability: Plus or minus 25 percent.

3. Color: To be selected from manufacturer's full color ranae.

3. Color: To be selected from manufacturer's full color range D. Joint Sealer Type 4 . ASTM C920, Grade NS, single component butyl rubber type, non sag. 2. Movement capability: Plus or minus 12-1/2 percent. 3. Color: To be selected from manufacturer's full color range.

1. ASTM C834, single component acrylic latex, non saq. 2. Movement capability: Plus or minus 7-1/2 percent. 3.Color: White. F. Joint Sealer Type 6

1. ASTM C920, Grade NS, single component silicone, non saq, mildew

2. Movement capability: Plus or minus 25 percent. 3. Color: To be selected from manufacturer's full color range. 2.3 ACCESSORIES

A. Primers, Bondbreakers, and Solvents: As recommended by sealer

manufacturer. B. Joint Backing 1. ASTM C1330, closed cell polyethylene foam, preformed round joint filler, non absorbing, non staining, resilient, compatible with sealer and primer, recommended by sealer manufacturer for each sealer type. 2. Size: Minimum 1.25 times joint width.

A. Mix multiple component sealers in accordance with manufacturer's 1. Mix with mechanical mixer; prevent air entrainment and overheating. 2. Continue mixing until color is uniform.

3.I PREPARATION A. Remove loose and foreign matter that could impair adhesion. If surface has been subject to chemical contamination, contact sealer manufacturer for recommendation.

B. Clean and prime joints in accordance with manufacturer's instructions.

C. Protect adjacent surfaces with masking tape or protective coverings. D. Calculate joint dimensions in accordance with ASTM C1472. 3.2 APPLICATION A. Apply products in accordance with manufacturer's instructions.

B. Install sealers and accessories in accordance with ASTM C1193.

C. Install acoustical sealers and accessories in accordance with ASTM C919. D. Install joint backing to maintain required sealer dimensions. Compress backing approximately 25 percent without puncturing skin. Do not twist or E. Use bondbreaker tape where joint backing is not installed.

F. Fill joints full without air pockets, embedded materials, ridges, and sags. G. Tool sealer to smooth profile. H. Apply sealer within manufacturer's recommended temperature range. 3.3 CLEANING

A. Remove masking tape and protective coverings after sealer has cured.

SEALER TYPE JOINT LOCATION OR TYPE Exterior Joints: Joints in above-grade surfaces Interior Joints:

Joints in horizontal surfaces subject to pedestrian traffic

Joints in toilet rooms, countertops, kitchens

SECTION 08 1113 - HOLLOW METAL DOORS AND FRAMES PART- I GENERAL

I.3 QUALITY ASSURANCE

A. Doors: ANSI/SDI A250.8.

frame is installed.

Grade: 11 - Heavy Duty.

3.4 SCHEDULE

I.I SUMMARY A. Section Includes: Hollow steel doors and frames.

B. Clean adjacent surfaces.

1.2 SUBMITTALS A. Quality Control Submittals: Certificates of Compliance: Certification that products furnished comply with ANSI/SDI A250.3, ANSI/SDI 250.4, and ANSI/SDI A250.10.

2. Model: 2 - Seamless 3. Exterior doors: Maximum thermal transmittance (U-value) of 0.37, tested to ASTM C518 B. Frames: ANSI/SDI A250.8, Grade II - Heavy Duty

C. Fire Door and Frame Construction: Conform to UL 10C. D. Installed Fire Rated Door and Frame Assemblies: Conform to NFPA 80. 1.4 DELIVERY, STORAGE AND HANDLING A. Ship door frames with removable angle spreader; do not remove until

B. Store doors upright in protected, dry area, off ground or floor, with at least 1/4-inch space between individual units. C. Do not cover with non-vented coverings that create excessive humidity. D. Remove wet coverings immediately.

PART- 2 PRODUCTS

2.I MANUFACTURERS

A. Acceptable Manufacturers:

1. Ceco Door. (<u>MMM.cecodoor.com</u>)

2. Curries. (<u>mmm.curries.com</u>) 3. Pioneer Industries, Inc. (www.pioneerindustries.com)

4. Steelcraft. (<u>www.steelcraft.com</u>)

2.2 MATERIALS A. Steel Sheet:

> ASTM A1008/1008M, cold rolled. B. Galvannealed Steel Sheet:

ASTM A924, Class A40 galvannealed. C. Door Core: I. Exterior doors: Rigid polystyrene insulation, manufactured using

low-emitting, urea formaldehyde-free binders. 2.3 ACCESSORIES A. Glass, Glazing Sealers, and Accessories: Specified in Section 088000.

B. Primer: Zinc rich type. 2.4 FABRICATION A. Fabricate doors and frames in accordance with ANSI/SDI A250.8.

B. Fabricate exterior doors and frames from galvannealed steel sheet. C. Fabricate exterior frames with 3/8-inch vinyl thermal break separating interior and exterior surfaces.

D. Doors:

1. Fabricate from minimum 18 gage sheets. 2. Close top and bottom edges of doors with steel channel, minimum 16 gage, extending full width of door, and spot welded to both faces, with top channel flush and bottom channel recessed.

3. Fabricate vertical door edges as vertical seam edge filled, dressed smooth, intermittently welded seams, edge filled, dressed smooth, or continuously welded seam, dressed smooth.

E. Frames: Fabricate from minimum 16 gage sheets. 2. For welded frames, close corner joints tight with trim faces mitered and face welded, full profile welded, or continuously welded and ground

3. Anchors: a. Provide one anchor at each jamb for each 30 inches of door height. b. Design anchors to provide positive fastenings to adjacent

construction. c. Provide one floor anchor welded to each jamb. 4. Where frames will be filled with concrete or grout, install silencers in

F. Accurately form to required sizes and profiles. G. Grind and dress exposed welds to form smooth, flush surfaces.

H. Do not use metallic filler to conceal manufacturing defects.

I. Fabricate with internal reinforcement for hardware; weld in place. J. Design Clearances: 1. Between door and frame: Maximum 1/8 inch.

2. Between meeting edges of pairs of doors:

frames before erection.

a. Fire-rated doors: 1/8 inch plus or minus 1/16 inch. 3. Undercut: a. Fire-rated doors: Comply with NFPA 80.

4. Between face of door and stop: 1/16 to 3/32 inch.

A. Dress tool marks and surface imperfections to smooth surfaces.

K. Manufacturing Tolerances: In accordance with SDI-II7. 2.5 FINISHES

B. Clean and chemically treat steel surfaces. C. Touch up damaged metallic coatings. D. Apply manufacturer's standard rust inhibiting primer paint, air-dried or

B. Set plumb and level.

3.2 ADJUSTING

baked on, meeting requirements of ANSI/SDI A250.10. PART 3 EXECUTION 3.I INSTALLATION

C. Secure to adjacent construction using fastener type best suited to application. D. Install hardware in accordance with Section 087100.

A. Touch up minor scratches and abrasions in primer paint to match factory

A. Install doors and frames in accordance with ANSI/SDI A250.II.

E) CENTI PPIN PE. 0

SPECIFICATIONS (CONT 08/05/22 A.T.,. N.C. Checked By: C.F., T.A. 4 of 7

pressure differential of 6.24 PSF.

and tolerances, trim, sealers, hardware, and accessories.

leakage through storefront system and reduction of performance.

and performance criteria, current within past 5 years.

outswing doors and storefront.

.3 SUBMITTALS

A. Submittals for Review:

4 QUALITY ASSURANCE

6 WARRANTIËS

PART- 2 PRÓDUCTS

2.I MANUFACTURERS

2.2 MATERIALS

B. Quality Control Submittals:

C. Sustainable Design Submittals:

door opening force requirements.

I. U.S. Aluminum (<u>www.crlaurence.com</u>

2. Kawneer Co., Inc. (<u>www.kawneer.com</u>)

4. YKK AP America, Inc. (<u>www.ykkap.com</u>)

.5 DELIVERY, STORAGE, AND HANDLING

A. Acceptable Manufacturers:

I. Recycled Content, Regional Materials.

A. Handle products in accordance with AAMA CM-10.

3. Oldcastle Building Envelope. (<u>www.oldcastlebe.com</u>)

E. Install hardware using templates provided by manufacturer. F. Install glass and accessories in accordance with Section 08 8000. G. Installation Tolerances: feet, whichever is less. inch plus or minus 1/8 inch. 3.2 ADJUSTING A. Adjust hardware for smooth operation. applicable accessibility code. C. Touch up minor scratches and abrasions to match original finish. D. Adjust weatherstripping to contact appropriate surfaces and form weather SECTION 08 7100 - DOOR HARDWARE PART-I GENERAL I.I REFERENCES A. National Fire Protection Association (NFPA) (<u>www.nfpa.ora</u>): 2. Water infiltration: No uncontrolled water leakage, tested to ASTM E331 80 - Standard for Fire Doors and Windows. at minimum test pressure of 6.24 PSF for inswing doors and 8.0 PSF for 2. 105 - Installation of Smoke Control Door Assemblies. 1.2 QUALITY ASSURANCE 3. Uniform structural loading: No glass breakage or permanent damage to fasteners or system components, tested to ASTM E330 at 1.5 times and meeting requirements of NFPA 80 for fire rated doors. 4. Thermal transmittance due to conduction (Uc): Maximum 0.60, tested to AAMA 1503 on two $6'-0" \times 6'-0"$ units with I inch clear insulating glass. 5. Condensation resistance factor (CRF): Minimum 50, tested to AAMA door openina force requirements. I.3 DELIVERY, STORAGE AND HANDLING A. Pack hardware items separately, with fasteners, installation instructions, and templates 1. Shop Drawings: Indicate system dimensions, framed opening requirements I.4 MAINTENANCE A. Extra Materials: extra locksets, latchsets, closers. Test Reports: Certified results of previous tests by a recognized PART- 2 PRODUCTS independent laboratory substantiating compliance with specified design 2.I MANUFACTURERS A. Acceptable Manufacturers - Butt Hinges: Bommer Industries, Inc. (<u>www.bommer.com</u>) 2. Hager Companies. (<u>www.hagerco.com</u>) 3. McKinney Products Co., Inc. (www.mckinneyhinge.com) A. Installer Qualifications: Minimum 5 years documented] experience in work of 4. Stanley Black and Decker. (www.stanleyblackanddecker.com) B. Acceptable Manufacturers - Continuous Hinges: B. Conform to applicable accessibility code for locating hardware and for Hager Companies. (<u>www.hagerco.com</u>) 2. McKinney Products Co. (<u>www.mckinneyhinge.com</u>) 3. Pemko Manufacturing Co., Inc. (<u>www.pemko.com</u>) A. Furnish manufacturer's 10-year warranty providing coverage against water Best Access Systems. (<u>www.bestaccess.com</u>) 2. Corbin Russwin, Inc. (<u>www.corbin-russwin.com</u>) 3. Schlage. http://www.schlage.com 4. Sargent Manufacturing Company. (<u>www.sargentlock.com</u>) 5. Yale Security, Inc. (<u>mmm.yalelocks.com</u>) D. Acceptable Manufacturers - Closers: I. Corbin Russwin, Inc. (<u>www.corbin-russwin.com</u>) 2. Dorma Door Controls, Ltd. (<u>www.dorma-usa.com</u>) 3. LCN by Allegion. (www.allegion.com) 4. Sargent Manufacturing Company. (<u>www.sargentlock.com</u>) 5. Yale Security, Inc. (<u>www.yalelocks.com</u>) Acceptable Manufacturers - Exit Devices I. Corbin Russwin, Inc. (<u>www.corbin-russwin.com</u>) 2. Sargent Manufacturing Company. (<u>www.sargentlock.com</u>)

A. Aluminum: I. Extrusions: ASTM B221, 6063-T5 alloy and temper. 2. Sheet: ASTM B209, alloy and temper best suited to application. 3. Recycled content: Minimum 30 percent, with minimum 15 percent classified

2.3 COMPONENTS A. Entrances Doors: Medium stile configuration with nominal 3-1/2 inch vertical stiles and top rail and 10-inch bottom rail, thermally broken. B. Storefront: Flush glazing system designed to receive 1/4-inch glass by

means of elastomeric gaskets; 2-inch face width x 4-1/2-inch depth, center alass application, thermally broken. C. Door Hardware: 1. Pivots: Manufacturer's standard, offset type; top and bottom.

2. Butt hinges: ANSI/BHMA AI56.1; full mortise, five knuckle, ball bearing

type with non-rising pins. Provide non-removable pins at exterior

3. Continuous hinges: ANSI/BHMA 156.26, continuous geared type, aluminum with stainless steel bearings between knuckles. 4. Closers a. ANSI/BHMA Al56.4; overhead exposed, single acting, adjustable closing and latching speed and backcheck, 105 degree hold open. b. Adjustable opening force and delayed closing in accordance with

applicable accessibility code. 5. Flush bolts: Automatic type, with dustproof strike. 6. Deadlocks: Keyed both sides. 7. Push and pull: To be selected from manufacturer's full range of

8. Thresholds: 4 inches wide \times ½ inch high, aluminum, saddle profile. 9. Door stops: Floor mounted; aluminum housing with resilient bumper. 2.4 ACCESSORIES

A. Fasteners: Series 300 stainless steel for wet locations and exposed fasteners. 2. Stainless or fluoropolymer coated steel for other locations.

B. Joint Sealers: Specified in Section 079200. C. Glass and Glazing Accessories: Specified in Section 088000. D. Weatherstripping: Replaceable, nonporous synthetic wool pile type. 2.5 FABRICATION

A. Fabricate with minimal clearances and shim spaces around perimeter. B. Accurately fit and secure joints and intersections. Make joints flush, hairline, and weathertight.

C. Fabricate in largest practical units. D. Conceal fasteners and attachments from view.

E. Fabricate fascias, covers, closures, flashings, and trim members from same material as storefront. F. Fabricate aluminum components with integral low conductance thermal

barrier located between exterior and interior exposed components that eliminates metal-to-metal contact. G. Doors: Mechanically fastened and welded corner construction.

2. Fabricate stiles and rails of minimum 0.125 inch thick extrusions and glass stops from minimum 0.050 inch thick extrusions 3. Provide weatherstripping at door head, jambs, meeting stiles, and sills. 4. Prepare with internal reinforcements for door hardware.

2.6 FINISHES A. Aluminum: AAMA 611, Architectural Class I anodized to 0.0007 inch minimum thickness, finish color as indicated on the drawings

B. Apply bituminous coating to aluminum surfaces in contact with cementitious materials. PART- 3 EXECUTION

3.I INSTALLATION A. Install in accordance with manufacturer's instructions and approved Shop B. Install components plumb and level, in proper plane, free from warp and

C. Anchor to supporting construction. D. Set thresholds and sill members exposed to weather in mastic and secure.

1. Maximum variation from plumb or level: 1/8 inch in 3 feet or inch in any 10

2. Maximum misalignment of members abutting end to end: 1/32 inch. 3. Sealant space between framing members and adjacent construction: 1/2

B. Adjust doors to operate with maximum opening forces in accordance with

A. Installer Qualifications: Minimum 5 years' experience in work of this Section. B. Provide hardware labeled by recognized independent testing laboratory

C. Provide smoke aasketing at fire rated doors in accordance with NFPA 105. D. Conform to applicable accessibility code for locating hardware and for

B. Mark containers with item number corresponding to hardware schedule.

4. Stanley Black and Decker. (www.stanleyblackanddecker.com) C. Acceptable Manufacturers - Locksets, Latchsets, Deadbolts, and Cylinders:

3. Von Duprin by Allegion. (www.allegion.com)

4. Yale Security, Inc. (<u>mmm.yalelocks.com</u>) F. Acceptable Manufacturers - Door Seals: Hager Companies. (<u>www.hagerco.com</u>) 2. National Guard Products, Inc. (<u>www.ngpinc.com</u>)

3. Pemko Manufacturing Co., Inc. (<u>www.pemko.com</u>) 4. Reese Enterprises, Inc. (<u>www.reeseusa.com</u>) 5. Zero International. (<u>www.zerointernational.com</u>)

G. Substitutions: Under provisions of Division Ol. 2.2 MANUFACTURED UNITS

A. Butt Hinges: 1. Description: ANSI/BHMA AI56.1, full mortise type, five knuckle, non rising pin, hole in bottom tip for pin removal. 2. Exterior out swinging doors: Provide set screw in barrel making hinge

non-removable when door is closed. 3. Weight: Standard weight. 4. Bearing type: Ball bearing

5. Size: As described on drawings. B. Electric Butt Hinges: Same construction, weight, bearing type, and size as butt hinges 2. Operation: Circuit type; permit passage of constant flow of current from jamb to door regardless of position of door.

C. Continuous Hinges: ANSI/BHMA 156.26, continuous geared type. 2. Size: As described on drawings D. Locksets, Latchsets, Deadbolts, and Cylinders:

I. Locksets and latchsets: a. Type: ANSI/BHMA Al56.13, Grade I mortise, lever/knob handles. AÎ56.2, Grade | cylindrical, key-in-lever/ knob handles. b. Lever design: To be selected from manufacturer's full range of selections. Provide tactile contact surfaces on doors into hazardous

areas 2. Electromechanical locksets: a. Same manufacturer and construction as locksets. b. Solenoid activated locking device.

3. Deadbolts: a. Type: ANSI/BHMA AI56.5, cylindrical type with I inch bolt throw. b. Functions: As scheduled. 4. Strike plates: Curved lip, minimum lip projection necessary to protect door frame and trim and to conceal edges of strike cutout. 5. Strike boxes: Steel.

. Keys: Solid brass or nickel silver. 8. Keying: a. Construction key locks. b. Master key locks in one set. c. Key alike, cross key, or otherwise key as directed by Owner. d. Provide four keys for each lock and 6 master keys for each master

6. Cylinders: Six pin, solid brass.

Type: ANSI/BHMA AI56.31.

compression spring, fully hydraulic.

adjustable concealed valves.

e. Inscribe keys with lock manufacturer and notation DO NOT DUPLICATE. f. Provide 1.25 inch wide bow surface for access by the physically handicapped E. Electric Strikes:

2. Operation: As described on drawings. F. Closers: I. Description: ANSI/BHMA Al56.4, overhead metal cover, sized to door conditions 2. Construction: Cast aluminum body, rack and pinion operation with

3. Closing and latching speeds and backcheck: Controlled by independently

2. Internal condensation. 3. Film formation on internal glass surfaces caused by failure of hermetic seal except failure caused in whole or in part by breakage or

fracturing of any portion of glass surface. B. Glass Coatinas: Provide manufacturer's 10 year warranty against peeling,

cracking, or deterioration of coating under normal conditions. C. Laminated Glass Units: Provide manufacturer's 5 year warranty against manufacturing defects resulting in edge separation, delamination, or material obstruction of vision through glass surface.

breakage, yellowing, loss of abrasion resistance, and loss of light transmission

PART- 2 PRODUCTS 2.I MANUFACTURERS

A. Acceptable Manufacturers - Glass: I. Guardian Industries Corp. (<u>www.quardian.com</u>) 2. Oldcastle BuildingEnvelope. (<u>www.oldcastlebe.com</u>)

K. Kick/Ārmor Plates: Type: 16 gage, beveled edges, secured with flathead countersunk 4. PPG Industries, Inc. (http://www.ppg.com/) 5. Viracon, Inc. (<u>www.viracon.com</u>)

2. Size: 8 inches high x door width. .. Flush Bolts: Manual/Automatic type (as described on drawings), with dustproof strike. M. Weatherstripping Head and jambs: As described on drawings.

SPECIFICATIONS

5. Adjustable opening force and delayed closing in accordance with

1. Description: ANSI/BHMA AI56.3, Grade I push pad crash bar type.

3. Outside trim: To be selected from manufacturer's full range of

H. Door Stops: Wall/Floor mounted, aluminum housing with resilient bumper.

J. Push/Pull Plates: 16 gage, beveled edges, 4 x 16 inches, secured with

1. Electromagnetic Holders: Wall/ Floor mounted, 120 volts AC, 24 volts DC

4. Culinders: Same as specified above for locksets

4. Mounting: Surface mounted, non handed with universal regular or parallel

arm. Suitable for mounting on 1-3/4 inch minimum door top rail or transom

2. Sill: As described on drawings. 3. Astragals: As described on drawings. N. Threshold: As described on drawings. O. Rain Drip: As described on drawings. P. Smoke Seals: As described on drawings Q. Sound Seals:

Head and jambs: As described on drawings.

bar without drop plate.

6. Exit Devices:

2. Tupe: Mortise.

selections

through bolts.

applicable accessibility code.

2. Door bottom: As described on drawings. R. Key Control System: Cabinet: Sheet steel with baked enamel finish, piano hinged door, and lock keyed to building system. 2. Capacity: 150 percent of locks required for project.

3. Horizontal metal strips for key hook labeling with plastic strip cover over paper labels. 2.3 FINISHES A. Finishes: To ANSI/BHMA AI56.18.

B. Door Closers: As described on drawings C. Hinges at Fire-Rated Doors: As described on drawings. D. Thresholds and Door Seal Housings: As described on drawings. E. Other: As described on drawings.

PART- 3 EXECUTION 3.I INSTALLATION A. Install hardware in accordance with approved hardware schedule and manufacturer's instructions

B. Install mortise items flush with adjacent surfaces. C. Install locksets, closers, and trim after finish painting. D. Set thresholds in mastic and secure. E. Mount closers so that closers and closer arms are not visible on corridor

or public side of doors or on exterior of building. F. Mounting Heights - Finished Floor to Center Line of: Locksets: 38 inches. 2. Push and pull plates: 42 inches.

3. Dead locks: 48 inches. 4. Push pad exit devices: 42 inches 5. Cross bar exit devices: 38 inches. 6. Top hinge: Maximum 10 inches from frame head. 7. Bottom hinge: Maximum 12-1/2 inches from floor.

8. Intermediate hinges: Equally spaced. G. Connect electric hardware to power supply/ security system and fire alarm

and detection system as described on drawings H. Set key cabinet in place, place keys in cabinets, label and index. 3.2 PROTECTION A. Remove or protect hardware until painting is completed.

3.3 ADJUSTING A. Test and adjust hardware for quiet, smooth operation, free from binding and rattling.

B. Adjust doors to operate with maximum opening forces in accordance with applicable accessibility code. as follows: Interior non-fire rated doors: 5.0 pounds.

2. Interior fire-rated doors: 15.0 pounds. 3. Exterior doors: 8.5 pounds.

SECTION 08 8000 - GLAZING

PART- I GENERAL I.I SYSTEM DESCRIPTION A. Glass Thicknesses:

I. Indicated thicknesses are minimums; select actual glass thicknesses by

analyzing loads and conditions 2. Size glass to withstand positive and negative wind pressure acting normal to plane in accordance with Building Code as measured in accordance with ASTM E330

3. Provide glass in thicknesses and strengths to meet or exceed following criteria:

a. Comply with ASTM°E1300. b. Probability of breakage for vertical glazing: 8 lites per 1000 for lites set within 15 degrees of vertical and under wind load for load c. Probability of breakage for sloped glazing: I lite per 1000 for lites

set more than 15 degrees off vertical and under wind load and snow load for duration of 30 days.

d. Thickness of tinted glass: Provide same thickness for each tint color for all applications. B. Thermal and Optical Performance Properties: Provide glass meeting

specified performance properties, based on manufacturer's published test data for units of thickness indicated: I. U-factor: Per NFRC°100 expressed as Btu/square°foot x hour x

2. Solar heat gain coefficient: Per NFRC°200 and applicable local governing energy code. 3. Solar optical properties: Per NFRC°300.

I.2 SUBMITTALS A. Submittals for Review: 1. Product Data: Descriptive data and performance attributes for insulated glass.

2. Samples: a. 12×12 inch glass samples [except clear]. b. $1/4 \times 1/4 \times 3$ inch long sealant and glazing compound samples showing available colors. 3. Warranty: Sample warranty form.
1.3 QUALITY ASSURANCE

A. Installer Qualifications: Minimum 5 years documented experience in work of this Section. B. Regulatory Requirements: Provide safety glass for locations subject to human impact as required by Building Code

2. Safety glass: Tested and labeled to CPSC 16 CFR 1201. C. Perform Work in accordance with GANA Glazing Manual. D. Fire Rated Glass Assemblies: Conform to ASTM Ell9 or as indicated in E. Security Glass: ASTM F1233, Level I or as indicated in drawings. 1.4 PROJECT CONDITIONS

A. Perform glazing when ambient temperature is above 40 degrees F. B. Perform glazing on dry surfaces. 1.5 WARRANTIES A. Insulating Glass Units: Provide manufacturer's 10 year warranty against material obstruction of vision through unit due to: 1. Intrusion of dust or moisture.

D. Mirrors: Provide manufacturer's 10 year warranty against silver spoilage resulting from manufacturing defects. E. Polycarbonate Sheet: Provide manufacturer's 5 year warranty against

3. Pilkington Architectural. (www.pilkington.com)

B. Substitutions: Under provisions of Division Ol. 2.2 MATERIALS - GLASS A. Clear Glass: ASTM ClO36, Type I transparent flat, Class I clear, Quality q3

glazing select. B. Clear Tempered Glass: ASTM CI048, Type I transparent flat, Class I clear, Quality q3 glazing select, Kind FT fully tempered.

C. Clear Heat Strengthened Glass: ASTM Cl048, Type I transparent flat, Class I clear, Quality q3 glazing select, Kind H5 heat strengthened.

1. Type: ASTM CI036, Type I transparent flat, Class 2 tinted heat absorbing and light reducing, Quality q3 glazing select. E. Color: As indicated in drawings.

F. Tinted Tempered Glass: 1. Type: ASTM C1048, Type 1 transparent flat, Class 2 tinted heat absorbing and light reducing, Quality q3 glazing select, Kind FT fully 2. Color: As indicated in drawings.

G. Tinted Heat Strenathened Glass: 1. Type: ASTM ClO48, Type I transparent flat, Class 2 tinted heat absorbing and light reducing, Quality q3 glazing select, Kind H5 heat strengthened. 2. Color: As indicated in drawings.

H. Wired Glass: ASTM Cl036, Type II - patterned and wired flat, Class I clear, Quality q8 - glazing, Form f1 - wired, polished both sides, Mesh: As indicated in drawings I. Patterned Glass: ÁSTM ClO36, Type II - patterned and wired flat, Class I clear, Form 3 - patterned, Quality q7 - decorative, Finish f3 patterned,

Pattern: As indicated in drawings J. Patterned Wired Glass: ASTM ČlO36, Type II - patterned and wired flat, Class I - clear, Form 2 - patterned and wired, Quality q7 - decorative, Finish: As indicated in drawings.

K. Patterned Safety Glass: ASTM CIO48, Kind FT fully tempered, Condition A uncoated surfaces, Type II - patterned glass, flat, Class I - clear, Quality q8 - glazing, Form 3 - patterned, Finish: As indicated in drawings. L. Mirror Glass: ASTM CIÓ36, Type I transparent flat, Class I clear, Quality ql

mirror select. 2.3 MATERIALS - FIRE-RATED GLASS A. Fire Rated Safety Glass:

Type: Specially tempered glass, clear, of fire resistance ratings indicated 2. Source: Approved substitute. 2.4 ACCESSORIES

A. Setting Blocks: ASTM C864, neoprene or EPDM, or ASTM CIII5, silicone; 80 to 90 Shore A durometer hardness. B. Spacers: ASTM C864, neoprene or EPDM, or ASTM CIII5, silicone; 50 to 60 Shore A durometer hardness.

C. Glazing Gaskets: 1. Dense compression gaskets: ASTM°C864, neoprene or EPDM, or ASTM°C1115, silicone or thermoplastic polyolefin rubber, molded or extruded shape to fit glazing channel retaining slot; black color. 2. Soft compression gaskets: ÁSTM°C509, Type II, black, molded or extruded, neoprene, EPDM, silicone or thermoplastic polyolefin rubber,

of profile and hardness required to maintain watertight seal; black D. Contact Sealant: Type: ASTM C1184, multi component, high modulus, neutral chemical curing silicone glazing and curtain wall sealant.

2. Movement capability: 12 percent in extension and compression. 3. Compatible with glass unit edge seals; tested to ASTM C1294. 4. Color: To be selected from manufacturer's full color range. E. Contact Sealant:

1. Type: Single component, medium modulus, neutral moisture curing silicone sealant; ASTM C184 and ASTM C920, Type S, Grade NS, Class 25, Use NT, M, G and A. 2. Movement capability: 50 percent in extension and compression. 3. Compatible with glass unit edge seals; tested to ASTM C1294.

4. Color: To be selected from manufacturer's full color range. F. Weatherseal Sealant: Type: Single component, low modulus, neutral moisture curing silicone sealant; ÁSTM C920, Type S, Grade NS, Class 25, Use NT, M, G and A. 2. Movement capability: 50 percent in extension and compression. 3. Compatible with glass unit edge seals; tested to ASTM C1294.

4. Color: To be selected from manufacturer's full color range. G. Butt Joint Glazing Sealant: ASTM C920, Type S, Grade NS, Class 25; single component silicone, low modulus type, non sag, translucent color to be selected from manufacturer's full color range

H. Glazing Sealant: ASTM C920, Type S, Grade NS, Class 25; single component silicone, low modulus, non sag, color to be selected from manufacturer's full I. Sealant Backing: ASTM°C1330, Type°O, size and density to control glazing

sealant depth and produce optimum glazing sealant performance. J. Primer: As recommended by glazing sealant manufacturer. K. Glazing Tape: ASTM°C1281 and AAMA°800; butyl based elastomeric tape with integral resilient tube spacer, 10 to 15 Shore A durometer hardness,

black color, coiled on release paper; widths required for installation. L. Glazing Compound: Modified oil type, non-hardening, knife grade consistency, color to be selected from manufacturer's full color range. M. Mirror Adhesive: Adhesive setting compound, produced specifically for

setting mirrors by spot application method. N. Mirror Attachment Accessories: Stainless steel clips. O. Mirror Frame: Roll formed stainless steel channel, No. 4 satin 8 polished finish, $1/2 \times 1/2$ inch, 18 gage, mitered corners. P. Laminating Film: Polyvinyl butyral sheet, minimum 15 mils thick, clear.

parallel to building floor lines after installation.

D. Laminated Glass:

2.5 FABRICATION .. Annealed Glass: Comply with ASTM C1036. B. Heat Strengthened Tempered Glass: . Comply with ASTM C1048.

2. Process in horizontal position so that inherent roller distortion will run

C. Sealed Insulating Glass Comply with ASTM E2190. 2. Fabricate spacer bar frame of tubular aluminum filled with desiccant. 3. Bond spacer bar frame to glass panes with twin primary seals. 4. Fill space outside frame to glass edge with elastomeric sealant.

Comply with ASTM C1172 and ANSI Z97.1. 2. Laminate glass with laminating film by manufacturer's standard heat and pressure process 3. Cut glass to required size at factory. E. Discard glass with voids, delamination, or entrapped dirt or foreign matter.

F. Security Glass: Comply with ASTM F1233. 2. Laminate glass with laminating film by manufacturer's standard heat and pressure process. 3. Cut glass to required size at factory. Treat edges to prevent moisture

4. Discard glass with voids, delamination, or entrapped dirt or foreign

G. Spandrel Glass: Apply film to scheduled glass surface. Color as indicated

H. Beveled Glass: Clear tempered glass with edges beveled ½ inch at 30 I. Low-E Coated Glass: Apply low-emissivity coating to scheduled glass

J. Reflective Coated Glass: Apply metallic coating as indicated in drawings to scheduled glass surface. K. Mirror Glass

Apply one coat of silver, one coat of electroplated copper, and one coat of organic mirror backing compound to back surface of glass. 2. Ease and polish edges. 3. Isolate glass from frame with resilient, waterproof padding. L. Fabrication Tolerances: ASTM ClO36 and ASTM ClO48.

M. Glass Identification: Apply manufacturer's label indicating type and thickness to each light of glass. Show position of exterior face when installed, where applicable. 2. Étch manufacturer's label on each light of tempered glass. N. Source Quality Control:

I. Preconstruction adhesion and compatibility testing: a. Perform adhesion test including ultraviolet exposure through glass on production samples of metals and glass in accordance with ASTM

b. Test glass units, glazing materials, and glass framing members with specified finish for sealant compatibility, priming, and preparation requirements for optimum adhesion and performance.

PART- 3 EXECUTION

3.I PREPARATION A. Clean glazing rabbets; remove loose and foreign matter. B. Remove protective coatings on metal surfaces.

C. Clean glass just prior to installation. 3.2 INSTALLATION - GENERAL A. Install glass in accordance with glass manufacturer's instructions.

A. Mask both sides of joint for full length.

B. Maintain manufacturer's recommended edge and face clearances between alass and frame members. 3.3INSTALLATION - STRUCTURAL SILICONE GLAZING METHOD

A. Mask aluminum and glass surfaces adjacent to sealant pockets. B. Install temporary glass retainers to align faces of glass. C. Apply contact sealant; completely fill pockets. Tool joints and remove masking tape before sealant skim cure begins.

D. Allow sealant to cure minimum time required by manufacturer.

E. Remove temporary glass retainers.
F. Insert joint backing to fill void between glass unit edges and glass spacer.
G. Mask both sides of glass for full length of joint. t. Apply weatherseal sealant; tool to smooth, slightly concave profile. 3.4 INSTALLATION - SILICONE GLAZING METHOD

B. Install temporary glass retainers to align faces of glass. C. Provide temporary joint backing for one side of joint. D. Apply sealant to completely fill spaces; tool to smooth, slightly concave

E. Allow sealant to cure minimum time required by manufacturer. Remove temporary backing and fill voids with additional sealant. 3.5 INSTALLATION - GASKET GLAZING METHOD

A. Fabricate gaskets to fit openings; allow for stretching of gaskets during installation. B. Set soft compression gasket against fixed stop or frame with bonded

miter cut joints at corners. C. Set glass centered in openings on setting blocks. D. Install removable stops and insert dense compression gaskets at corners, working toward centers of glass, compressing glass against soft compression qaskets to produce weathertight seal.

E. Seal joints in gaskets. F. Allow gaskets to protrude past face of glazing stops. 3.6 INSTALLÁTION - PRÉSSURE GLAZING METHÓD

A. Set glass unit in opening as recommended by system manufacturer. B. Tighten fasteners simultaneously at rate recommended by manufacturer to avoid unequal point pressures on glass. C. Torque fasteners to achieve required pressure against glass. Do not over

3.7 INSTALLATION - SEALANT GLAZING METHOD A. Apply sealant to full depth of permanent stops.

B. Press glass into sealant with slight lateral movement to ensure adhesion. C. Apply sealant to full depth of removable stops. Secure stops in position, forcing contact with sealant bead and completely filling joint. 3.8 INSTALLATION - SEALANT AND TAPE GLAZING METHOD

A. Apply tape to permanent stops, projecting slightly above sight line. B. Press glass into contact with tape C. Install removable stops with spacer shims between stop and glass. D. Fill gap between removable stop and glass with glazing sealant.

E. Trim protruding tape edges 3.9 INSTALLATION - TAPE GLAZING METHOD A. Apply tape to permanent stops, projecting slightly above sight line.

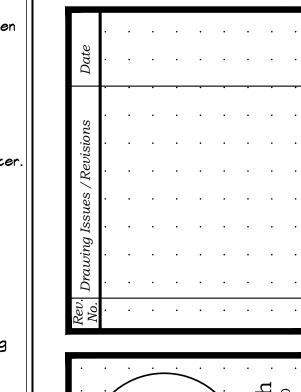
B. Press glass into contact with tape

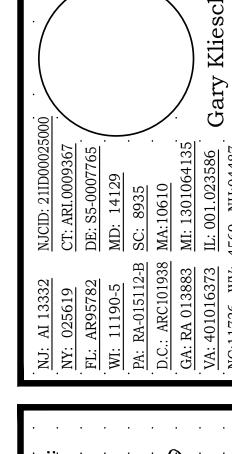
A. Locate and secure glass using glazing clips.

C. Place glazing tape on removable stop side of glass. D. Install removable stop and apply pressure to ensure contact. E. Trim protruding tape edges. 3.10 INSTALLATION - COMPOUND GLAZING METHOD

B. Fill voids between glass and stops with glazing compound; tool to straight line. Slope to exterior for watershed. 3.11 INSTALLATION - MIRRORS A. Apply mirror adhesive in accordance with manufacturer's instructions to cover maximum 25 percent of back of mirror. Set mirror and press against

substrate to ensure adhesive bond. B. Leave minimum 1/8 inch open ventilation space between mirror and substrate over 75 percent of mirror area. Do not seal off ventilation





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SPECIFICATIONS (CONT. 08/05/22 Checked By: C.F., T.A. 5 of 7

SECTION 09 9100 - PAINTING 3. Prime bare steel surfaces. K. Interior Wood: PART- I GENERAL Nipe off dust and grit. I.I SUBMITTALS 2. Seal knots, pitch streaks, and sappy sections with sealer. A. Submittals for Review: 3. Fill nail holes and cracks after primer has dried; sand between coats. Product Data: Manufacturer's data on materials proposed for use L. Exterior Wood: a. Product designation and grade. 1. Remove dust, grit, and foreign matter. b. Product analysis and performance characteristics. 2. Seal knots, pitch streaks, and sappy sections. c. Standards compliance. d. Material content. M. Existing Surfaces: e. Mixing and application procedures. I. Remove loose, flaking, powdery, and peeling paints. 2. Samples: 2. Lightly sand glossy painted surfaces. a. 3×6 inch samples of each coating system on representative substrate. Step back successive coats so that all coats remain 3. Fill holes, cracks, depressions and other imperfections with patching exposed. Indicate type of material used for each coat. compound; sand flush with surface. b. 12 x 12 inch texture samples on gypsum board backing. 4. Remove oil, grease, and wax by scraping; solvent wash and thoroughly 3. Paint Schedule: Indicate types and Tocations of each surface, paint materials, and number of coats to be applied. 5. Remove rust by wire brushing to expose base metal. 1.2 QUALITY ASSURANCE 3.3 APPLICATION A. Applicator Qualifications: Minimum 5 years' experience in work of this A. Apply paints in accordance with manufacturer's instructions and MPI Painting B. Materials, Preparation, and Workmanship: Conform to MPI Painting Manual. Manual, Premium Grade finish requirements. I.3 DELIVERY, STORAGE AND HANDLING B. Apply primer or first coat closely following surface preparation to prevent A. Container Labels: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage rates, surface preparation, drying time, C. Do not apply finishes to surfaces that are not dry. cleanup requirements, color designation, and instructions for mixing and D. Apply coatings to minimum dry film thickness recommended by manufacturer. B. Paint Materials: Store at ambient temperature from 45 to 90 degrees F in E. Apply each coat of paint slightly darker than preceding coat unless ventilated area, or as required by manufacturer's instructions. specified otherwise. .4 PROJECT CONDITIONS F. Apply coatings to uniform appearance without laps, sags, curtains, holidays, A. Do not apply materials when surface and ambient temperatures or relative and brush marks. humidity are outside ranges required by paint manufacturer. B. Maintain ambient and substrate temperatures above manufacturer's minimum G. Allow applied coats to dry before next coat is applied. requirements for 24 hours before, during and after paint application. H. When required on deep and bright colors apply an additional finish coat to C. Do not apply materials when relative humidity is above 85 percent or when ensure color consistency. dew point is less than 5 degrees F different than ambient or surface I. Continue paint finishes behind wall-mounted accessories. temperature. D. Provide lighting level of 30 footcandles at substrate surface. I.5 MAINTENANCE J. Sand between coats on interior wood and metal surfaces. K. Match final coat to approved color samples. A. Extra Materials: I gallon of each color and sheen. L. Where clear finishes are specified, tint fillers to match wood. Work fillers PART- 2 PRODUCTS into grain before set. Wipe excess from surface. 2.I MANUFACTURERS M. Prime concealed surfaces of exterior wood and interior wood in contact A. Acceptable Manufacturers: with masonry or cementitious materials with one coat primer paint. Benjamin Moore and Co. (<u>www.benjaminmoore.com</u>) 2. Sherwin Williams. (<u>www.sherwin-williams.com</u>) N. Mechanical and Electrical Components: 3. Devoe Paint Co. (<u>www.devoepaint.com</u>) 1. Paint factory primed equipment. 4. Kelly-Moore Paints. (<u>www.kellymoore.com</u>) 2. Remove unfinished and primed louvers, grilles, covers, and access 5. PPG Architectural Finishes, Inc. (<u>www.pittsburghpaints.com</u>) panels; paint separately. 6. Pratt and Lambert Paints. (<u>www.prattandlambert.com</u>) 3. Paint exposed and insulated pipes, conduit, boxes, ducts, hangers, B. Substitutions: Under provisions of Division Ol. brackets, collars, and supports unless factory finished. 2.2 MATERIALS 4. Do not paint name tags or identifying markings. A. Paints: As scheduled at end of Section, or approved substitute. 5. Paint exposed conduit and electrical equipment in finished areas. 2. Free from all forms of lead and mercury. 6. Paint duct work behind louvers, grilles, and diffusers flat black to B. Gloss Ratings: minimum of 18 inches or beyond sight line. O. Do not Paint: Gloss Designation Units at 60 Degrees Units at 85 Degrees 1. Surfaces indicated on Drawings or specified to be unpainted or Flat 0 to 5 Maximum 10 10 to 25 10 to 35 Eggshell 2. Surfaces with factory applied finish coat or integral finish. 20 to 35 Minimum 35 Satin 3. Architectural metals, including brass, bronze, stainless steel, and chrome 35 to 70 610ss70 to 85 Semigloss plating. Minimum 85 High Gloss 3.4 ADJUSTING 2.3 ACCESSORIES A. Touch up or refinish disfigured surfaces. A. Accessory Materials: Paint thinners and other materials required to achieve specified finishes; commercial quality. A. Remove paint from adjacent surfaces. B. Patching Materials: Latex filler. C. Fastener Head Cover Materials: Latex filler. 2.4 MIXES A. Deliver paints pre-mixed and pre-tinted. B. Uniformly mix to thoroughly disperse pigments. C. Do not thin in excess of manufacturer's recommendations. D. Re-mix paint during application; ensure complete dispersion of settled

pigment and uniformity of color and gloss.

1. Gypsum board and plaster: 12 percent. 2. Masonry and concrete: 12 percent.

4. Concrete floors: 8 percent.

3. Wood: 15 percent, measured to ASTM D4442.

Protect adjacent and underlying surfaces.

A. Test shop applied primer for compatibility with subsequent coatings.

2. Remove or mask electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing. 3. Correct defects and clean surfaces capable of affecting work of this

phosphate and bleach. Rinse with clean water and allow to dry.

2. Apply light orange peel texture in accordance manufacturer's

2. Verify that required acid-alkali balance has been achieved.

plaster. Finish smooth and flush with adjacent surfaces.

1. Uncoated Ferrous Metals: SSPC Method SP2 - Hand Tool Cleaning or

1. SSPC Method SP2 - Hand Tool Cleaning or Method SP3 - Power Tool

6. Galvanized Steel: SSPC Method SPI - Solvent Cleaning.

2. Feather edges to make patches inconspicuous.

2. Wash and neutralize high alkali surfaces.

H. Aluminum: SSPC Method SPI - Solvent Cleaning.

Method SP3 - Power Tool Cleaning.

J. Shop Primed Ferrous Metals:

1. Remove dirt, loose mortar, scale, salt and alkali powder, and other

2. Remove oil and grease with solution of trisodium phosphate; rinse and

3. Remove stains caused by weathering of corroding metals with solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.

1. Remove contamination, acid etch, and rinse floors with clear water. Allow

I. Fill hairline cracks, small holes, and imperfections with latex patching

4. Seal marks that may bleed through surface finishes with waterborne stain

B. Impervious Surfaces: Remove mildew by scrubbing with solution of trisodium

1. Fill minor defects with filler compound. Spot prime defects after repair.

B. Measure moisture content of surfaces using electronic moisture meter. Do not apply coatings unless moisture content of surfaces are below following

PART- 3 EXECUTION 3.I EXAMINATION

3.2 PREPARATION

A. General:

C. Gypsum Board:

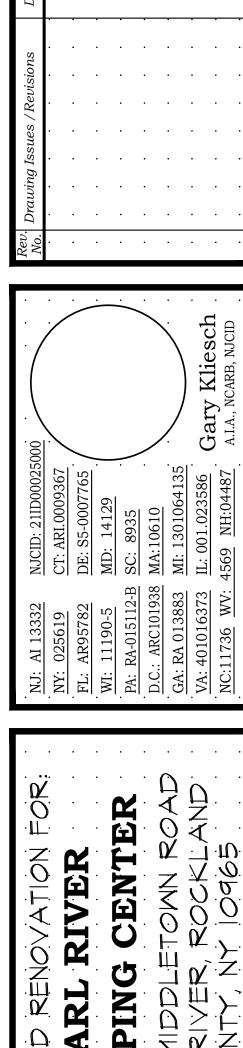
D. Concrete and Masonry:

allow to dry.

E. Concrete Floors:

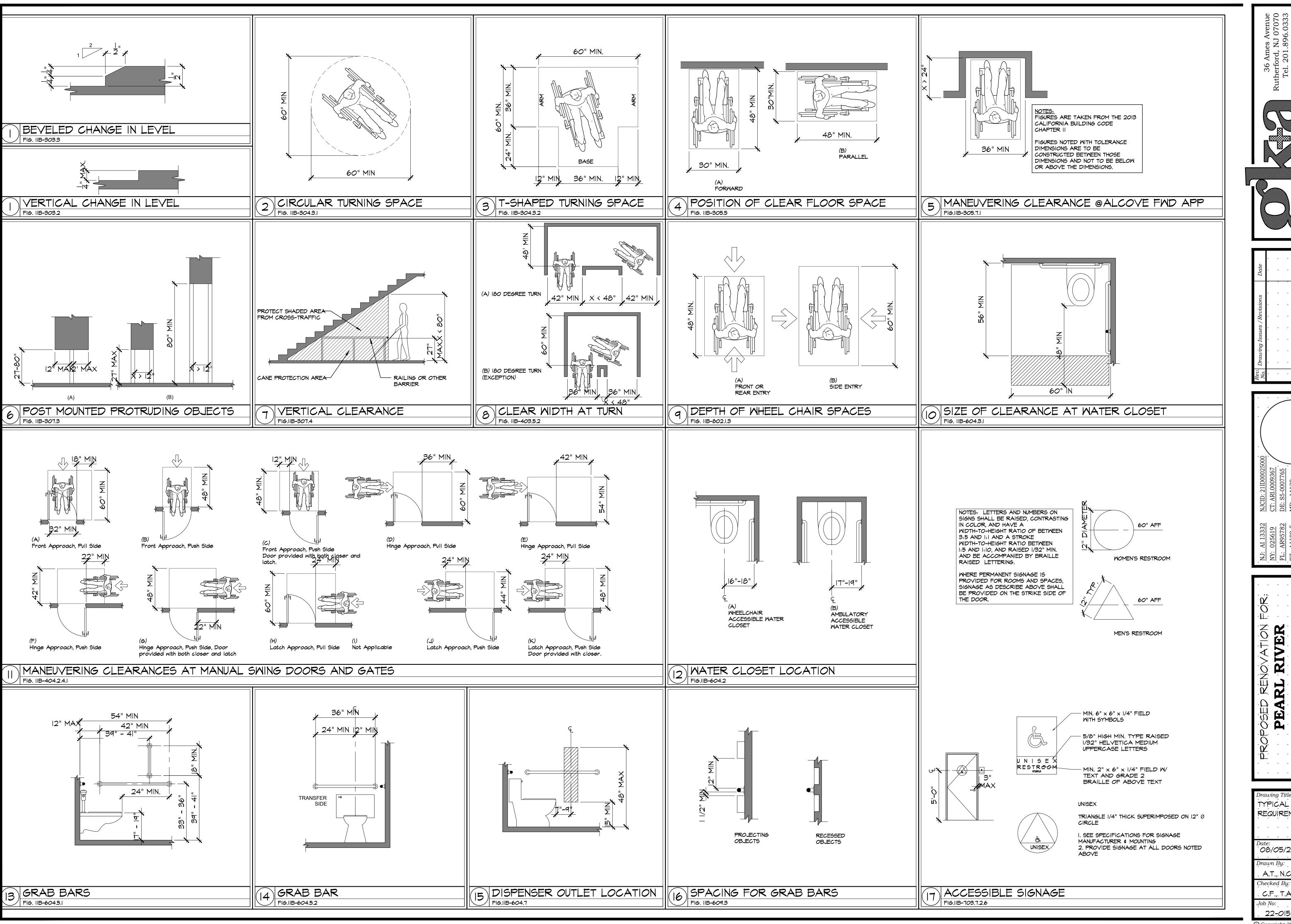
F. Plaster:

SPECIFICATIONS



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SPECIFICATIONS (CONT 08/05/22 Checked By:



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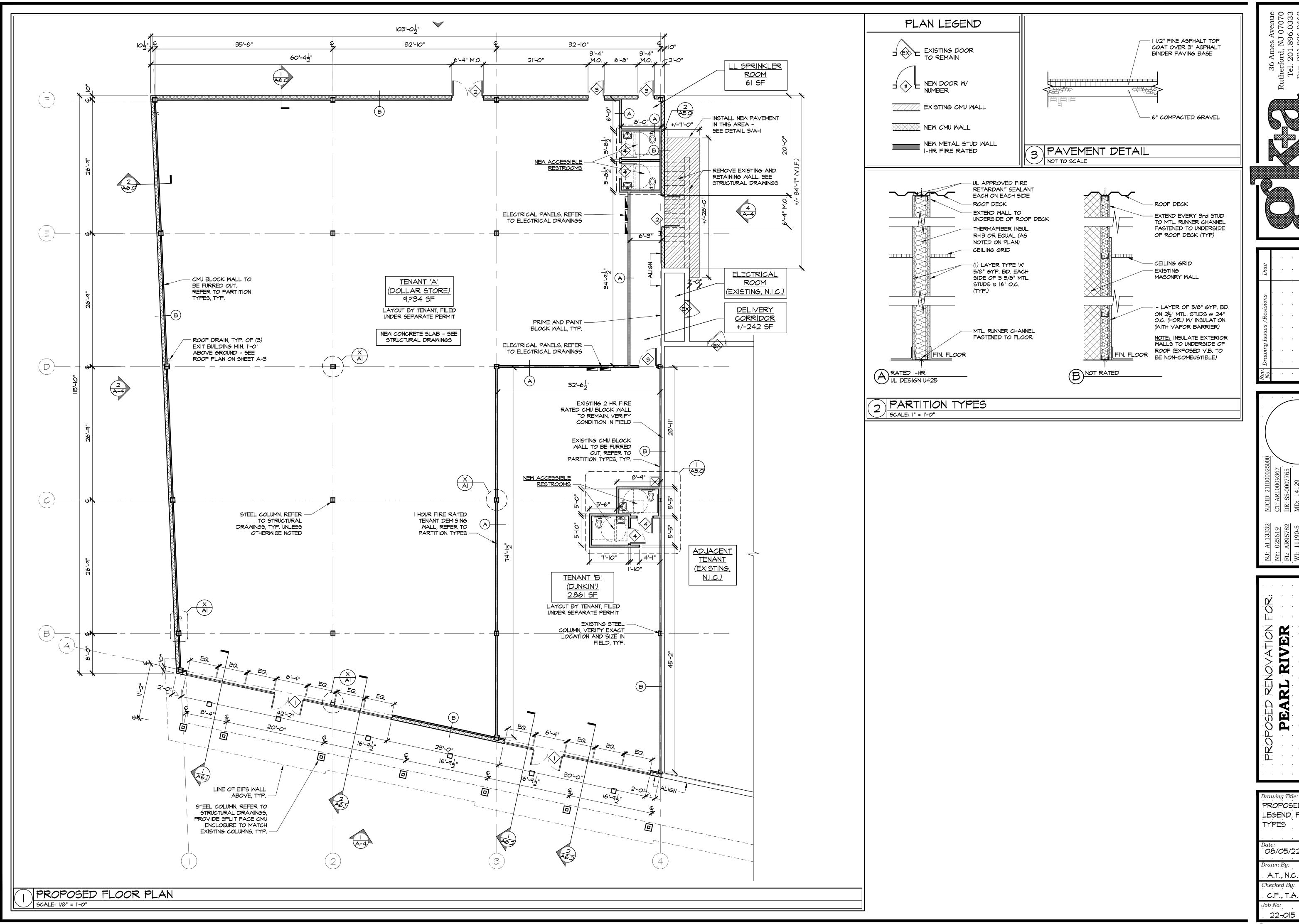
SHOPPING **PEARL**

Drawing Title: TYPICAL ADA/ INFO REQUIREMENTS 08/05/22 Drawn By: A.T.,. N.C.

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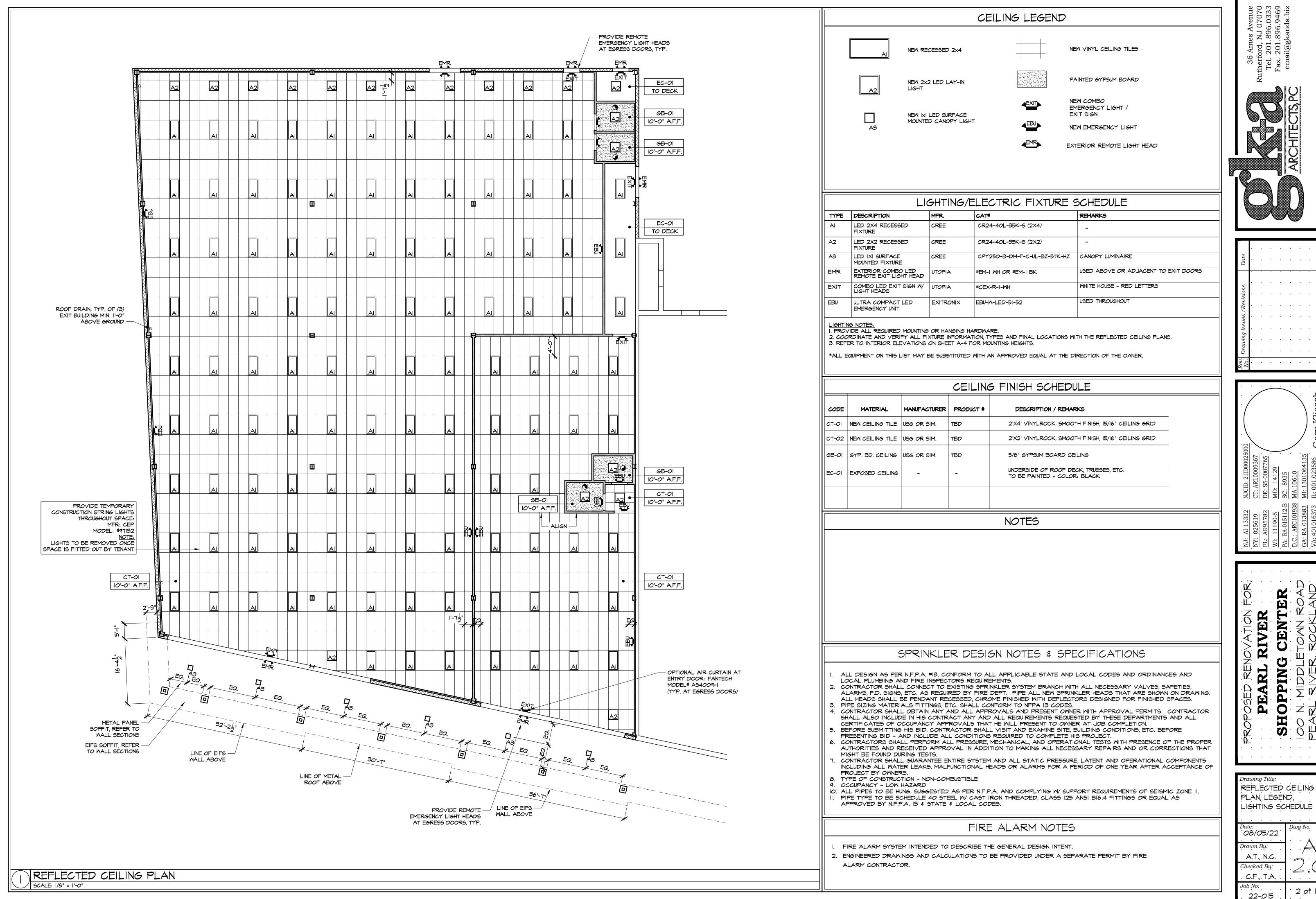
7 of 7

C.F.,. T.A.



SHOPPING

Drawing Title: PROPOSED PLAN, LEGEND, PARTITION 08/05/22 Drawn By: Checked By:

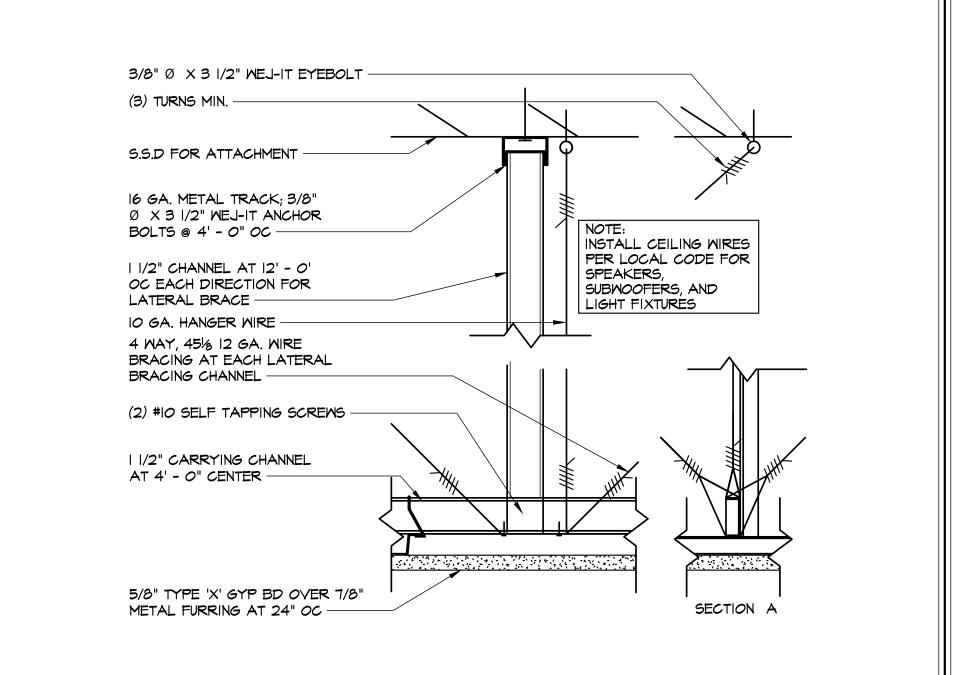


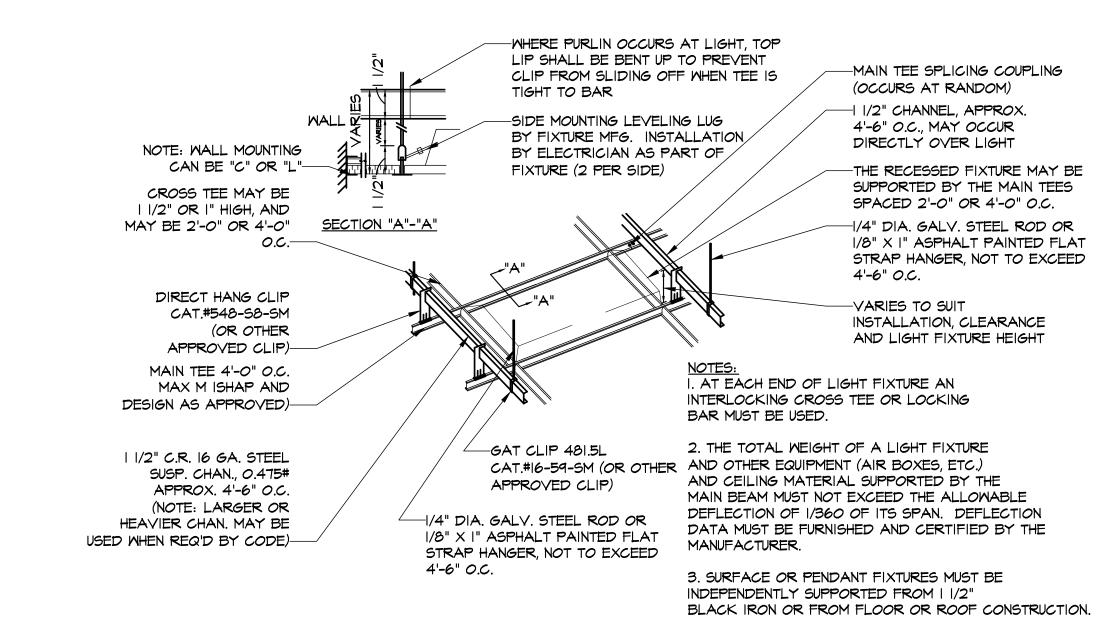
22-015 © Copyright 2022 - gk+a Architects, PC

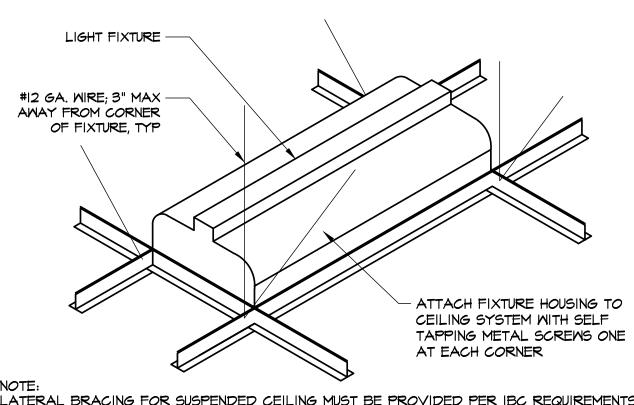
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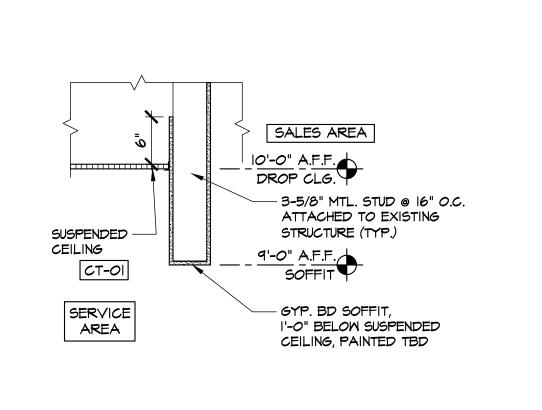


LATERAL BRACING FOR SUSPENDED CEILING MUST BE PROVIDED PER IBC REQUIREMENTS WHERE LOADS ARE LESS THAN 5# PER FOOT AND NOT SUPPORTING INTERIOR PARTITIONS. CEILING BRACING SHALL BE PROVIDED BY FOUR #12 GA. WIRES SECURED TO THE MAIN RUNNER INTERSECTION AND SPLAYED 90% FROM THE PLANE OF THE CEILING. THESE HORIZONTAL RESTRAINT POINTS SHALL BE IN BOTH DIRECTIONS. WITH THE FIRST POINT WITHIN 4' - 0" FROM EACH WALL. ATTACHMENT OF THE RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED. INSTALL 2 ADDITIONAL WIRES AT OPPOSITE CORNERS (MAY BE SLACK) OF LIGHT FIXTURE HOUSING AND ATTACHMENT OF CEILING REGISTERS WITH SAME PENDANT HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE WITH #9 GA. WIRE OR APPROVED ALTERNATE WITHOUT USING CEILING SYSTEM FOR DIRECT SUPPORT.



2 EXPOSED "T" GRID SYSTEM (353-72 BCR FIGURE 3-C)

SCALE: 3" = 1'-0"



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|---|------------------|------------|---|----------|
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 NJ: AI 13332
 NJCID: 21ID00025000

 NY: 025619
 CT: ARI.0009367

 FL: AR95782
 DE: S5-0007765

 WI: 11190-5
 MD: 14129

 PA: RA-015112-B
 SC: 8935

 D.C.: ARC101938
 MA:10610

 GA: RA 013883
 MI: 1301064135

 VA: 401016373
 IL: 001.023586
 Gary Kliesch

 NC:11736
 WV: 4569
 NH:04487
 A.I.A., NCARB, NJCID

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ARL RIVER
PING CENTER
AIDDLETOWN ROAD
RIVER, ROCKLAND
NTY, NY 10965

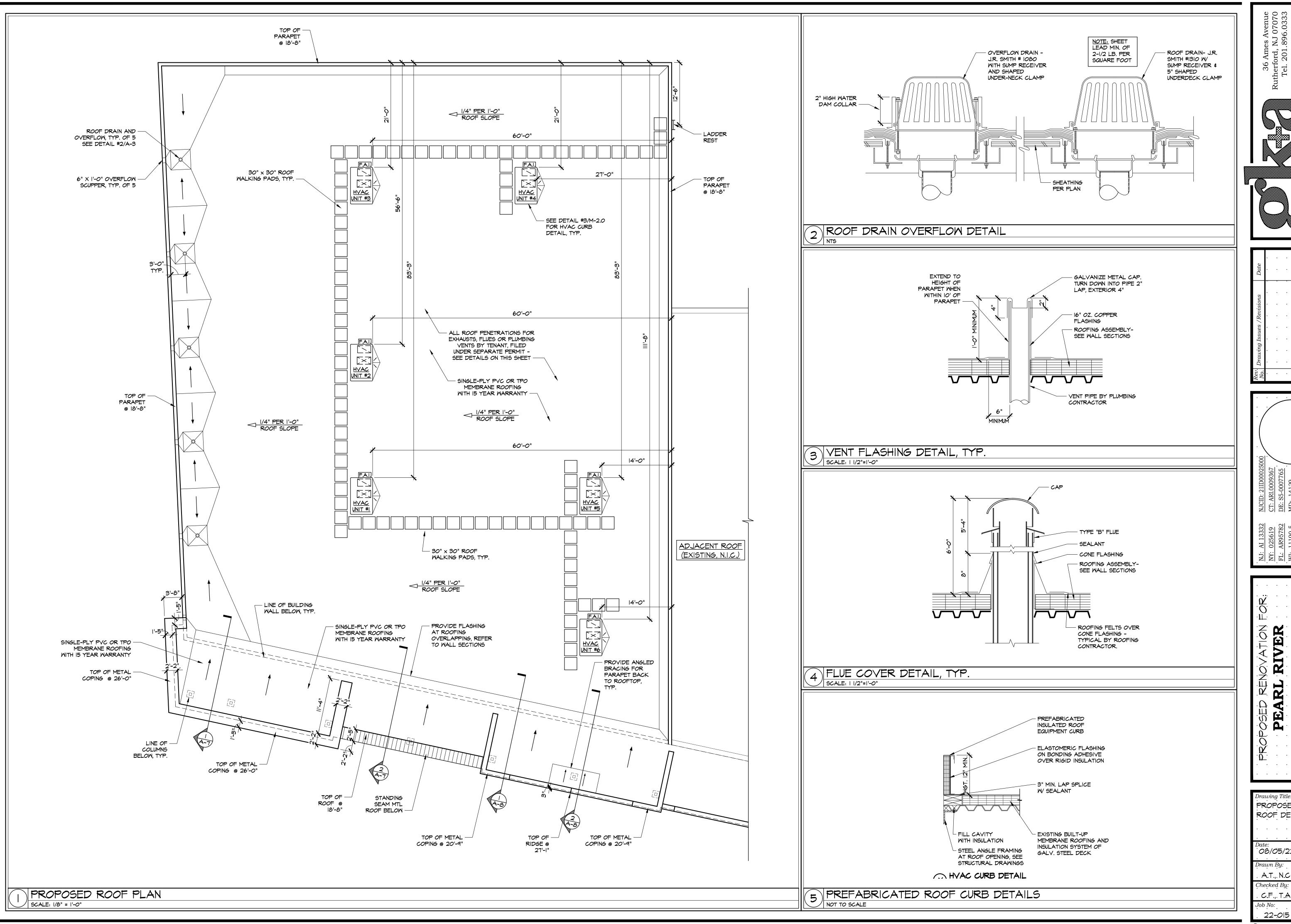
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SHOPPING
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Drawing Title:
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A.T., N.C.
Checked By:
C.F., T.A.

Job No:
3 of 10



Rev. Drawing Issues /Revisions Date

No. Drawing Issues /Revisions Date

Sch. School Date

ARCHITECTS PC

Fax. 201.896.933

Fax. 201.896.9469

email@gkanda.biz

Gary Kliesch and Associate Architects

| Section | CT: ARI.0009367 | CT: ARI.0007765 | CT: ARI.0007765 | CT: ARI.0007765 | CT: ARI.001064135 | CT: ARI.001.023586 | CARY Kliesch | CT: AI.A., NCARB, NJCID | CT:

ROPOSED RENOVATION FOR:

PEARL RIVER

SHOPPING CENTER

OO N. MIDDLETOWN ROAD
PEARL RIVER, ROCKLAND

Drawing Title:

PROPOSED ROOF PLAN,

ROOF DETAILS

Date:

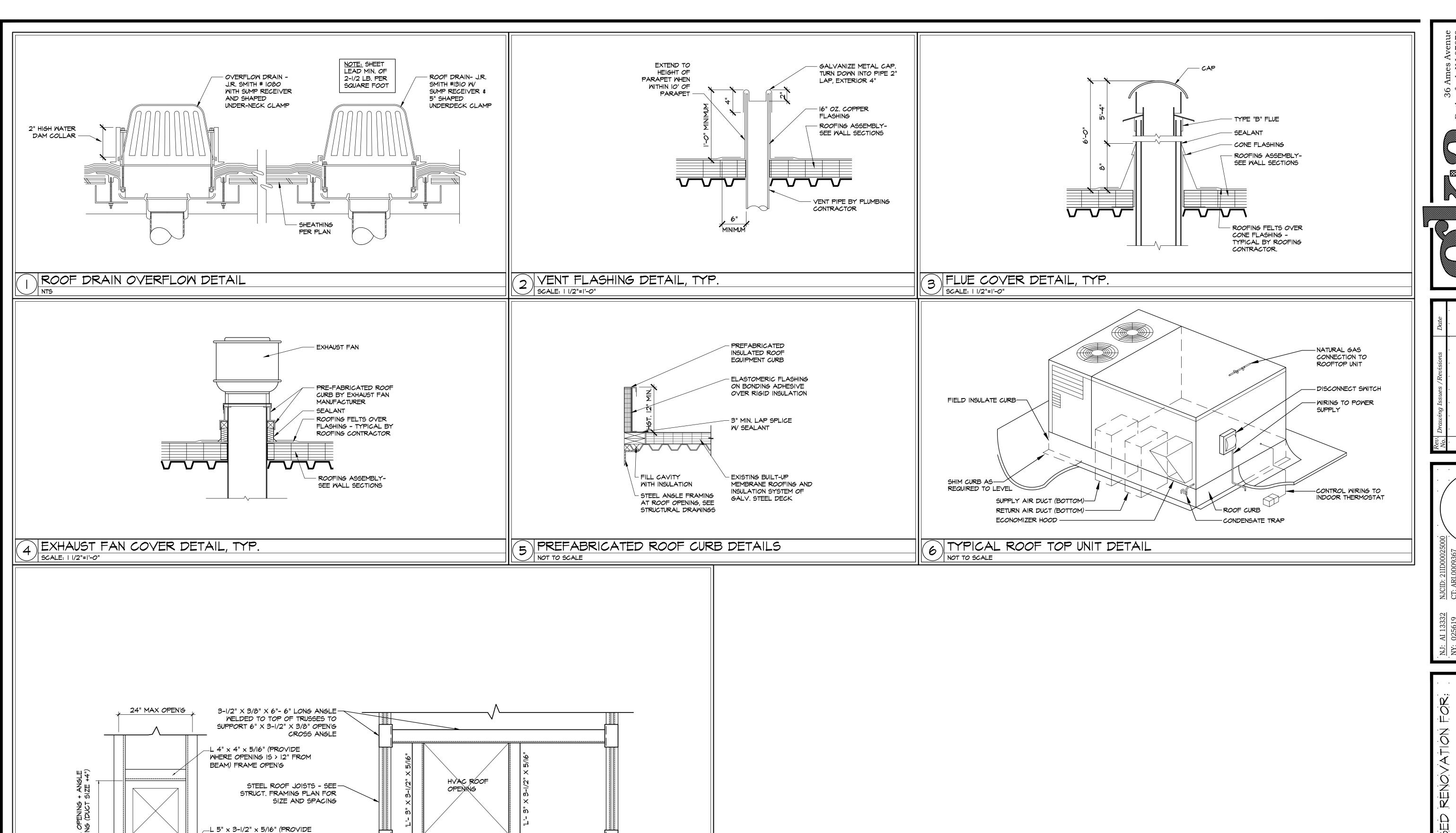
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A.T., N.C.

Checked By:

C.F., T.A.



WHERE OPENING IS > 12" FROM BEAM) SPAN FROM JOIST TO

STEEL ROOF DECKING

HVAC ROOF OPENINGS SUPPORT

JOIST- EA SIDE

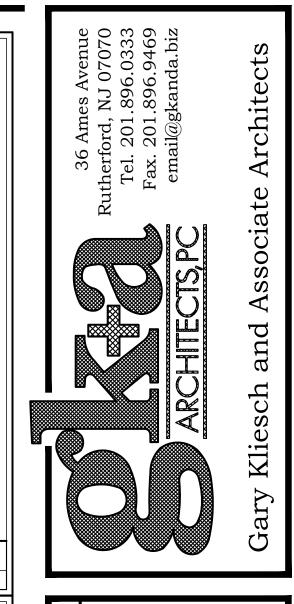
PROVIDE FRAMES FOR OPENINGS 12" AND LARGER (UP TO 24" OR 200#) IN EITHER DIRECTION. THIS DETAIL SHALL BE USED FOR OPENINGS NOT

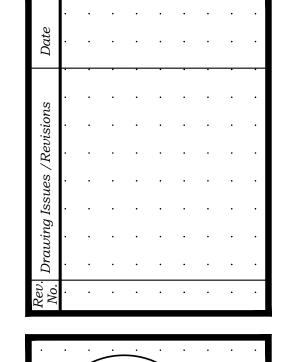
ROOF OPENINGS - MISC

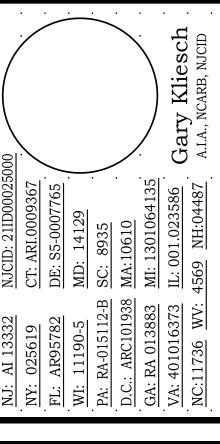
SPECIFICALLY ADDRESSED ON PLANS.

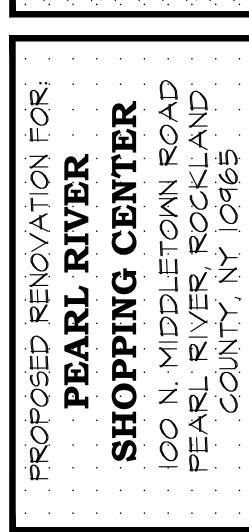
ROOF OPENINGS

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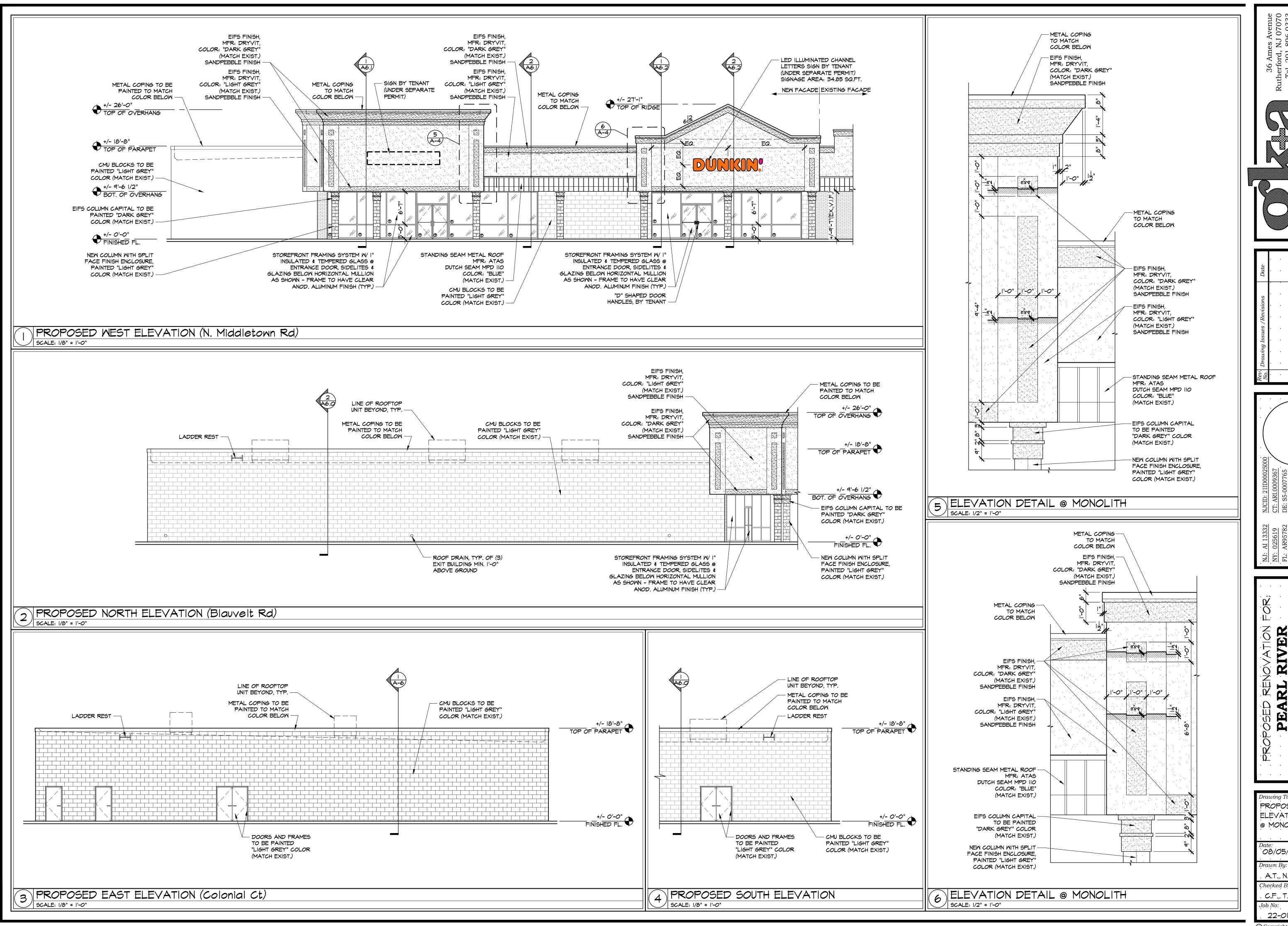








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| . C.F.,, T.A. | ٠ | • | ٠ | • | ٠ |
| Job No: | | Χd | of | X | |
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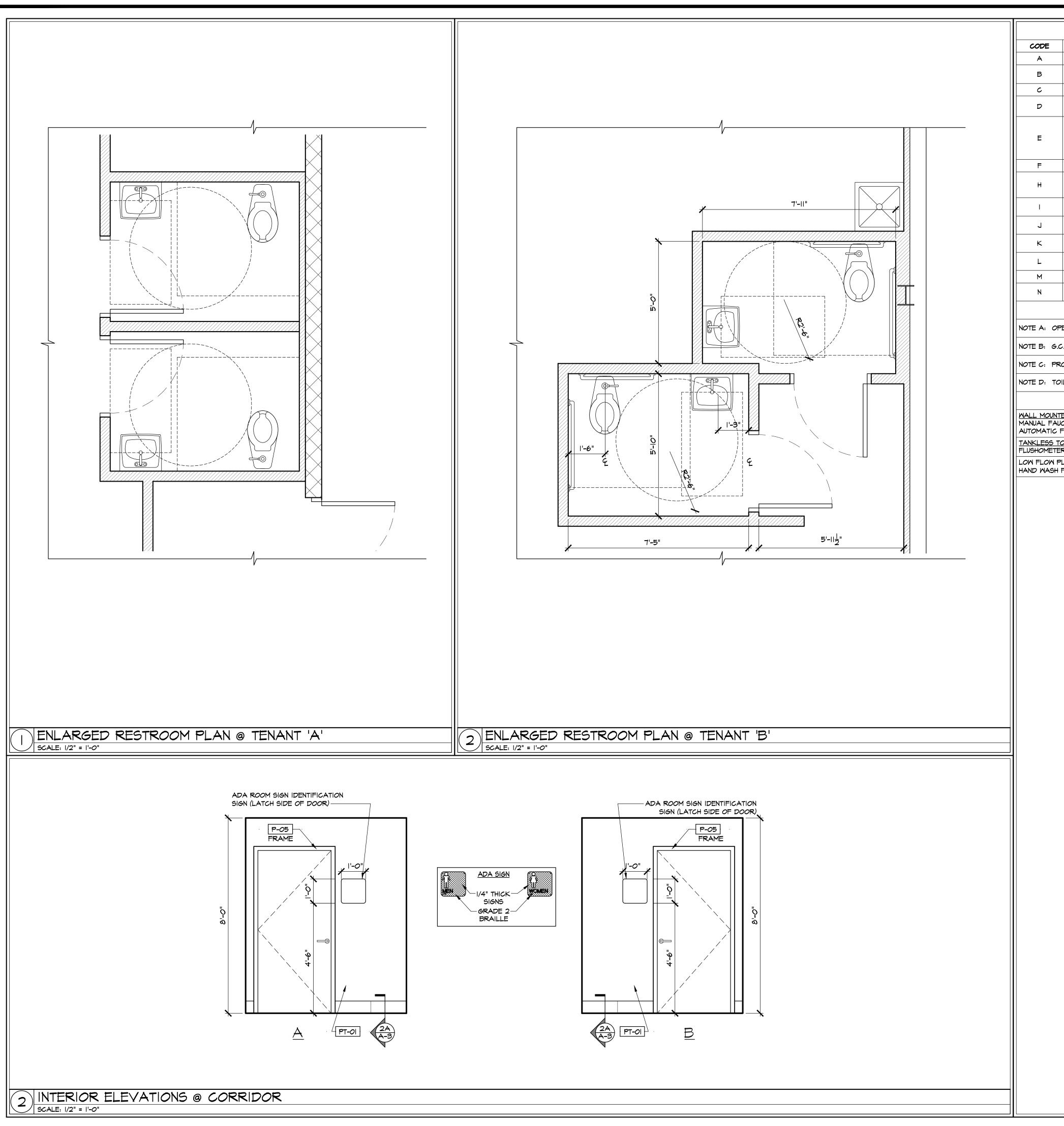
CENTER

SHOPPING PE.

Drawing Title: PROPOSED ELEVATIONS ELEVATION DETAILS @ MONOLITHS

08/05/22 Drawn By: A.T.,. N.C. Checked By:

C.F., T.A. 22-015



| CODE | ITEM | MANUFACTURER \$ PRODUCT # | MOUNTING HEIGHT | NOTES |
|------|---|--|-------------------------------|-------|
| Α | GRAB BARS | ASI 370I-I8P (I8"), -36P (36") \$ -42P (42") | 36" MAX. A.F.F. | c |
| В | TOILET TISSUE DISPENSER | KC PROFESSIONAL #9551 OR AS PROMISED BY D.C.P | 24" A.F.F. | C, D |
| C | COAT HOOK (ACCESSIBLE) | ASI 0751 | 48" A.F.F. | Α |
| D | SOAP DISPENSER | PROCTER & GAMBLE (SEE NATIONAL ACCOUNTS) | | A, C |
| E | HAND DRYER | SELECTED BY OWNER | | A, C |
| F | MIRROR | SELECTED BY OWNER | 40" A.F.F. TO BOTTOM | C |
| Н | RECESSED CONVERTIBLE PAPER TOWEL DISPENSER AND WASTE RECEPTACLE | BOBRICK # B-3944 | SEE INSTALLATION INSTRUCTIONS | |
| 1 | BABY CHANGING STATION | KOALA KARE #KB200-01 HORIZONTAL WALL MOUNT | SEE INSTALLATION INSTRUCTIONS | |
| J | SMING-UP GRAB BAR | BOBRICK #B-4998.99 | SEE INSTALLATION INSTRUCTIONS | |
| K | NOT USED | | | |
| L | SEAT COVER DISPENSER | ASI 0477 SM | | |
| М | BABY CHANGING STATION | ASI 9012 HORIZONTAL | 24" TO TOP OF UNIT | C |
| N | TOILET SEAT COVER | CHURCH 295C | | |

NOTES

NOTE A: OPERATING CONTROLS OF ALL HAND DRYERS, SOAP DISPENSERS AND MULTI PURPOSE UNITS TO BE 42" A.F.F.

NOTE B: G.C. TO FIELD VERIFY ALL SIZES

NOTE C: PROVIDE BLOCKING FOR ALL WALL MOUNTED FIXTURES AND ACCESSORIES

NOTE D: TOILET TISSUE & PAPER TOWEL DISPENSERS SUPPLIED FREE FROM LOCAL DCP; INSTALLED BY G.C.

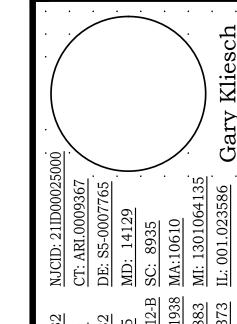
RESTROOM EQUIPMENT

| WALL MOUNTED LAVATORY: "LUCERNE" BY AMERICAN STANDARD #0355.012. MANUAL FAUCET: DELTA #B501LF-LH, W/ DELTA #RP79323 0.5 GPM AERATOR.

AUTOMATIC FAUCET: SLOAN #ETF-600-B-BDT, W/ TRANSFORMER #EL-154 AND 0.5 GPM AERATOR #ETEF-1024-A.

TANKLESS TOILET: AMERICAN STANDARD MADERA FLOWISE ELONGATED, 1.28 GPF #3043.001 FLUSHOMETER AUTOMATIC FLUSH: SLOAN 8111-1.28 EXPOSED, BATTERY POWERED, SENSOR ACTIVATED DUAL FLUSH FLUSHOMETER

LOW FLOW PLUMBING FIXTURES MUST MEET FLUSH/FLOW FIXTURE VOLUMES STANDARDS OF 1.28 GPF TOILETS, O.5 GPF URINALS, O.5 GPM HAND WASH FAUCETS, AND 2.2 GPM POT SINK FAUCET (BY OTHERS) WITH 1.24 GPM SPRAY HEAD (BY OTHERS)



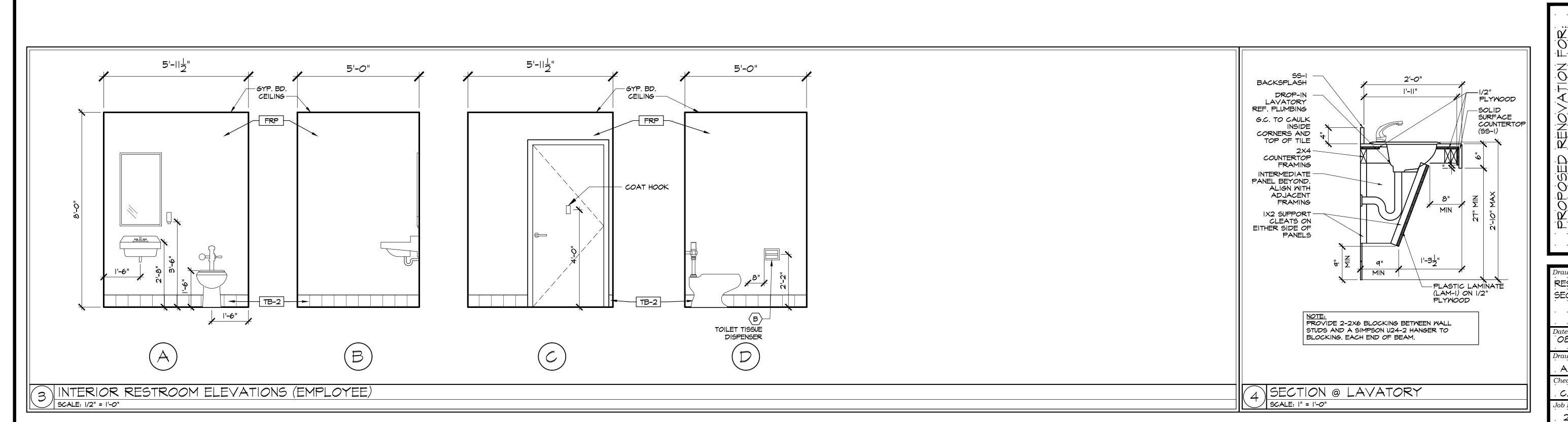
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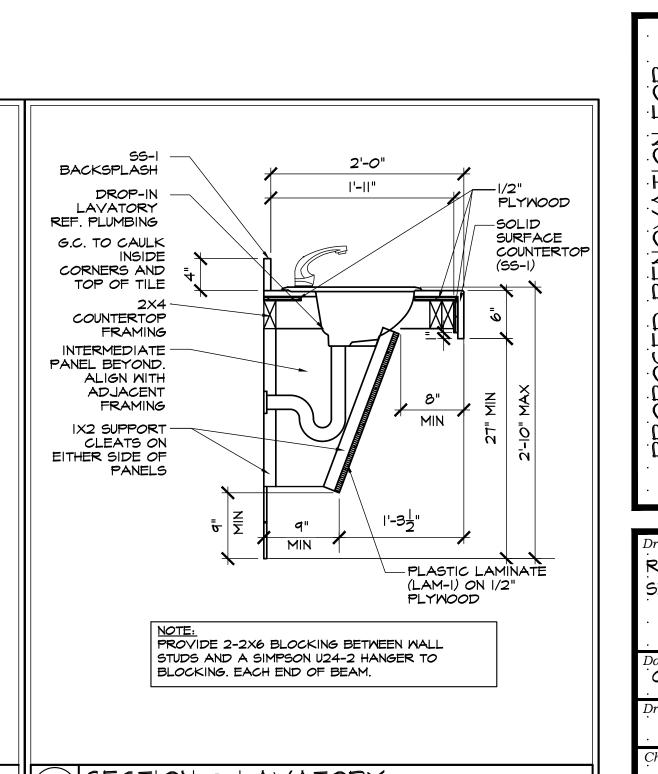
SHOPPING

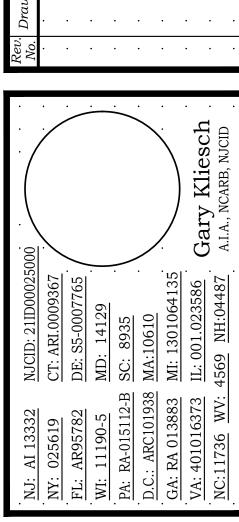
Drawing Title: ENLARGED RESTROOM PLAN, RESTROOM EQUIP SCHEDULE, ELEVS @

CORRIDOR 08/05/22 Drawn By: Checked By:

Job No: X of X





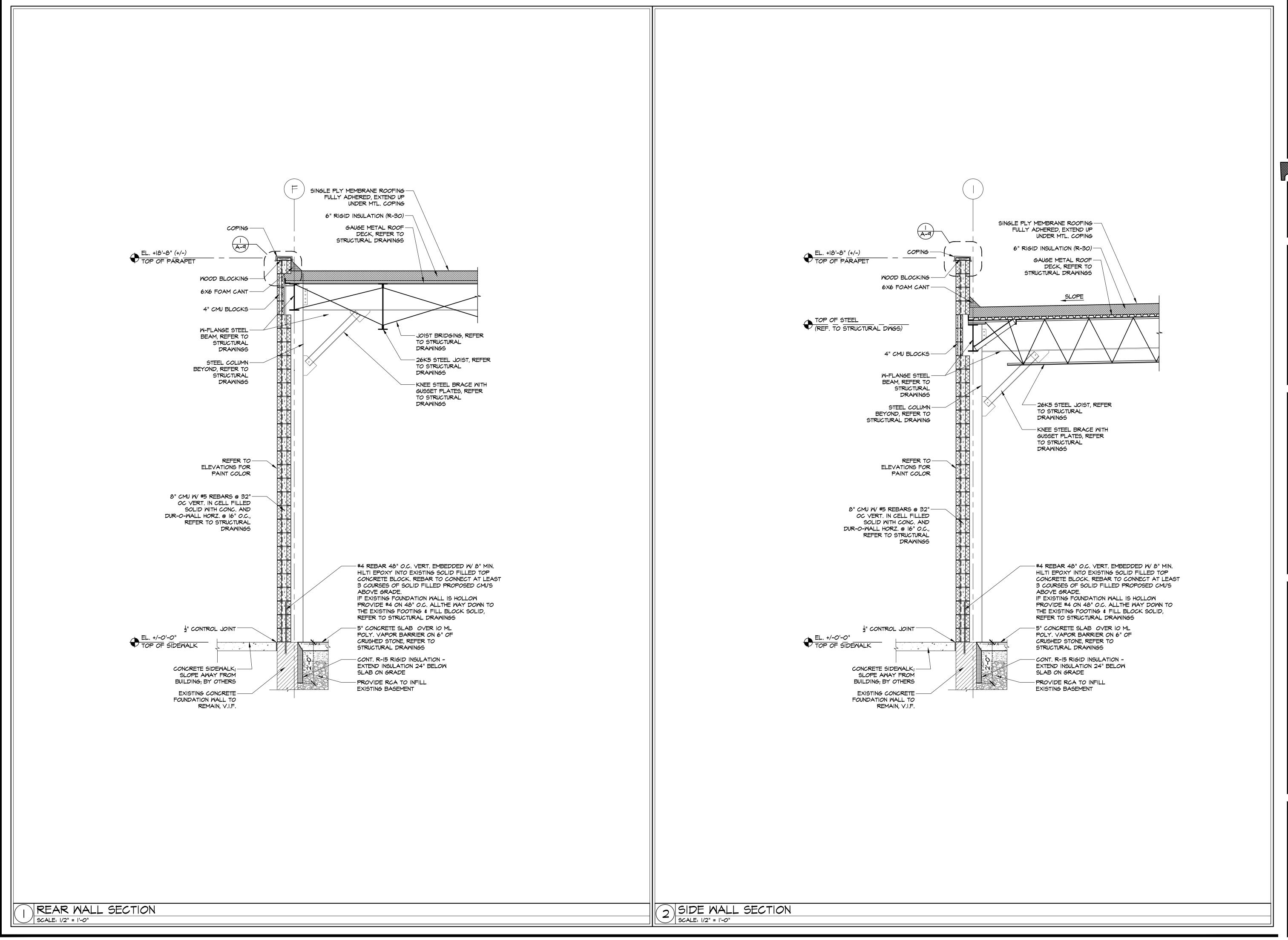


SHOPPING CENTER

Drawing Title: RESTROOM ELEVATIONS SECTION @ LAVATORY

Date: 08/05/22 Drawn By: . A.T.,. N.C. Checked By:

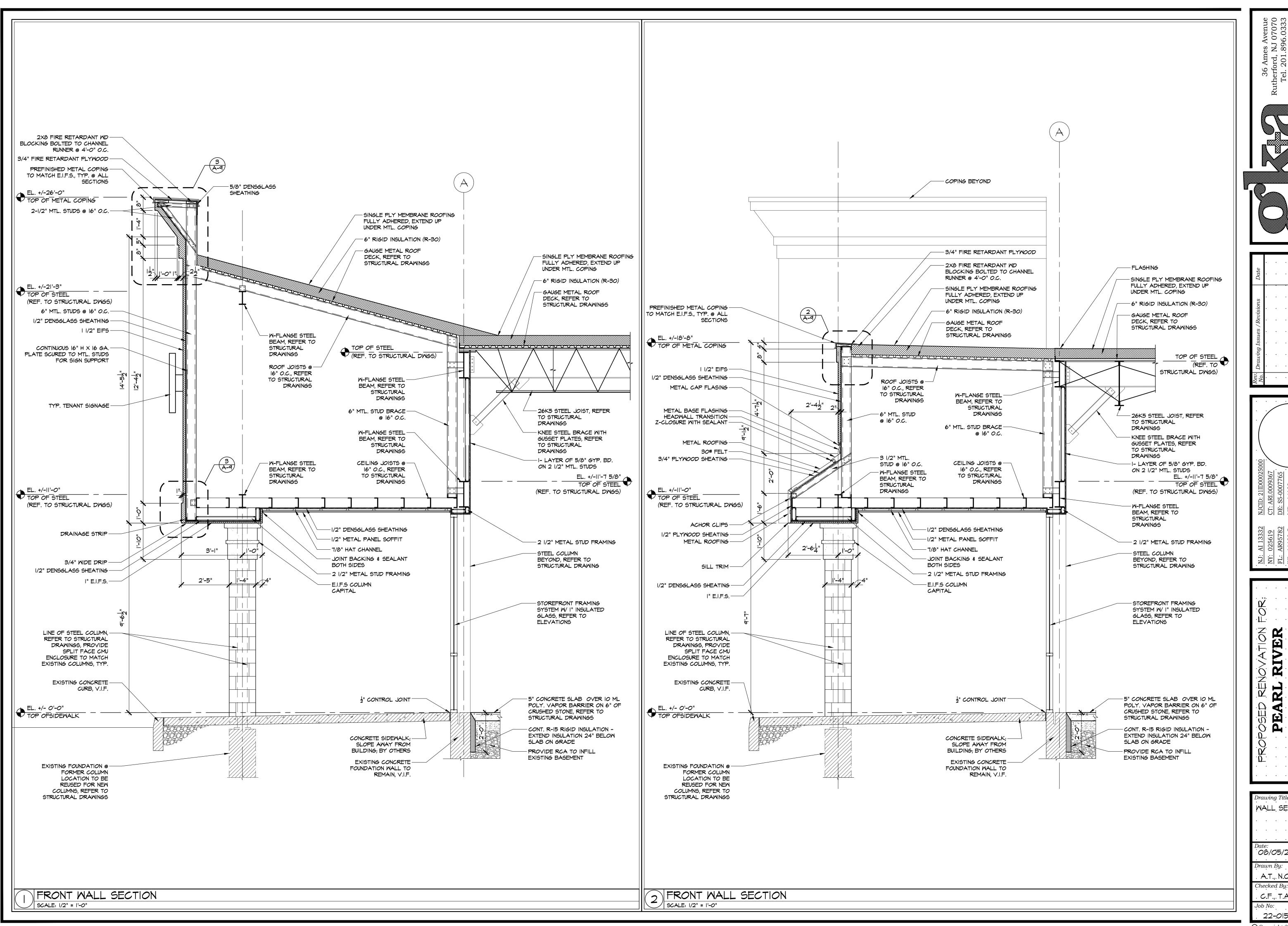
. C.F.,. T.A. Job No: X of X

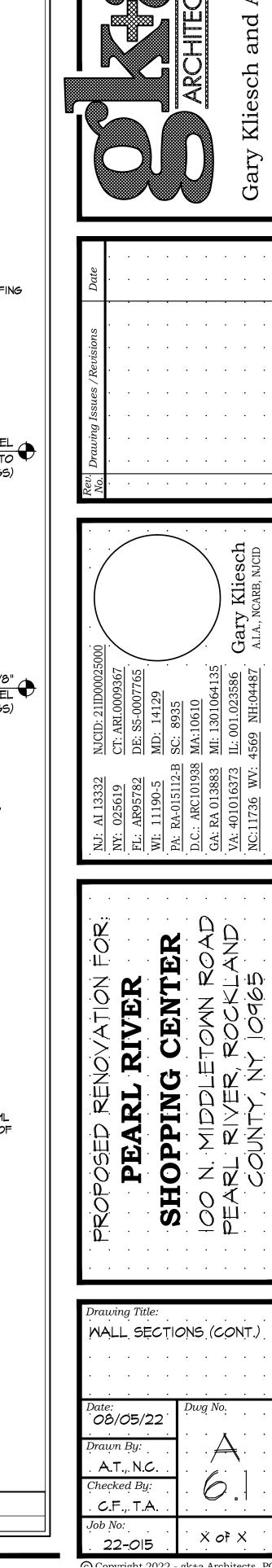


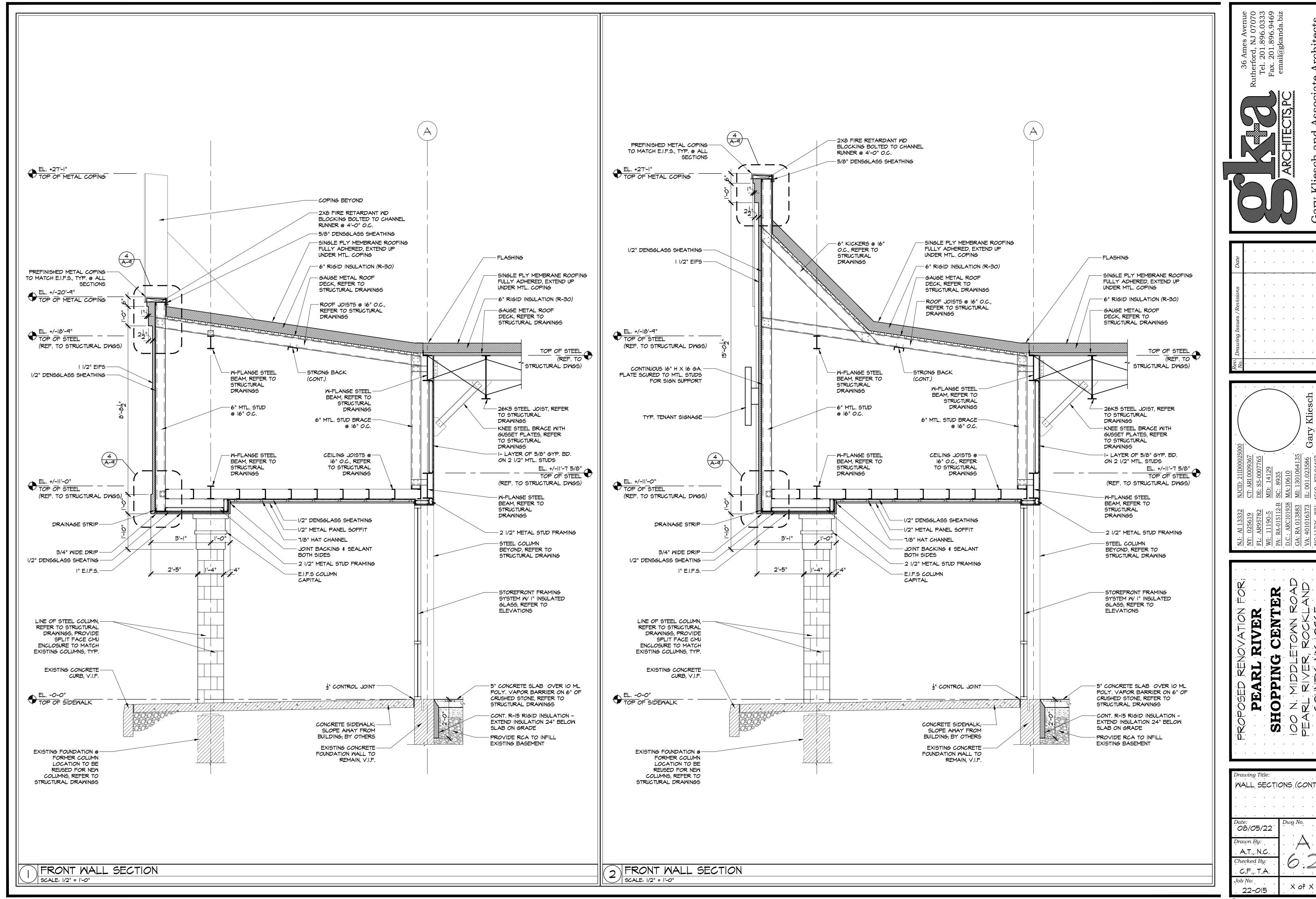
SHOPPING

Drawing Title: MALL SECTIONS 08/05/22 Drawn By:

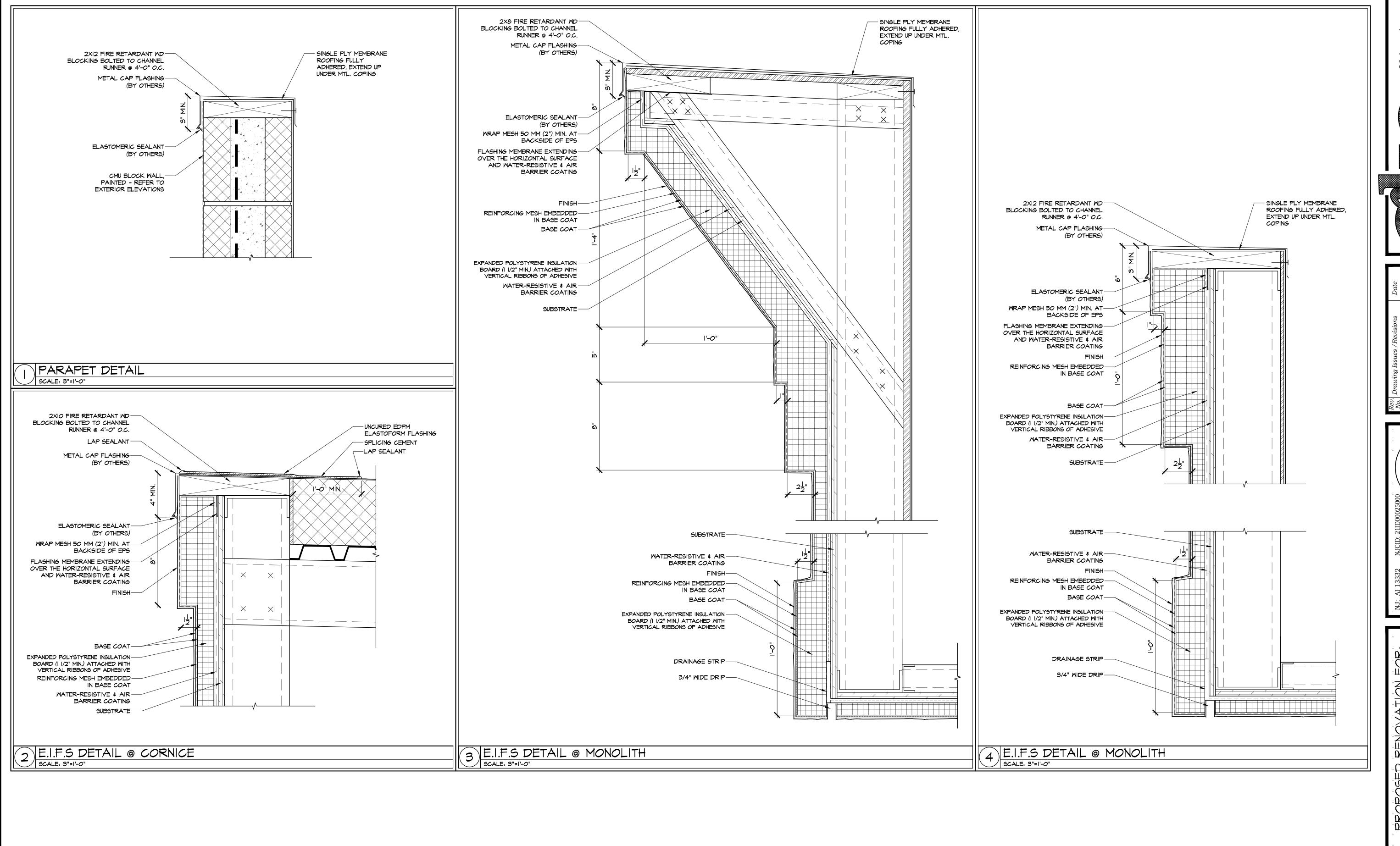
Checked By: Job No: X of X 22-015

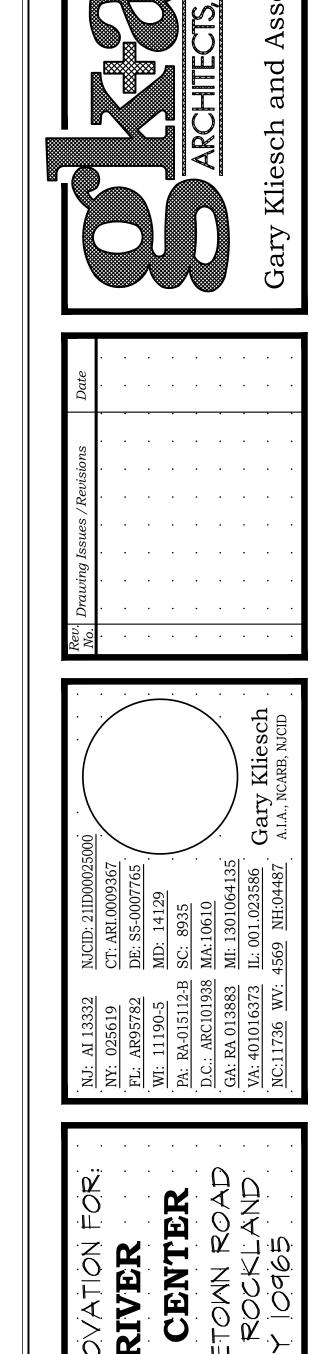






WALL SECTIONS (CONT.)





Drawing Title:

PARAPET AND

MONOLITH DETAILS

Date:
O8/O5/22

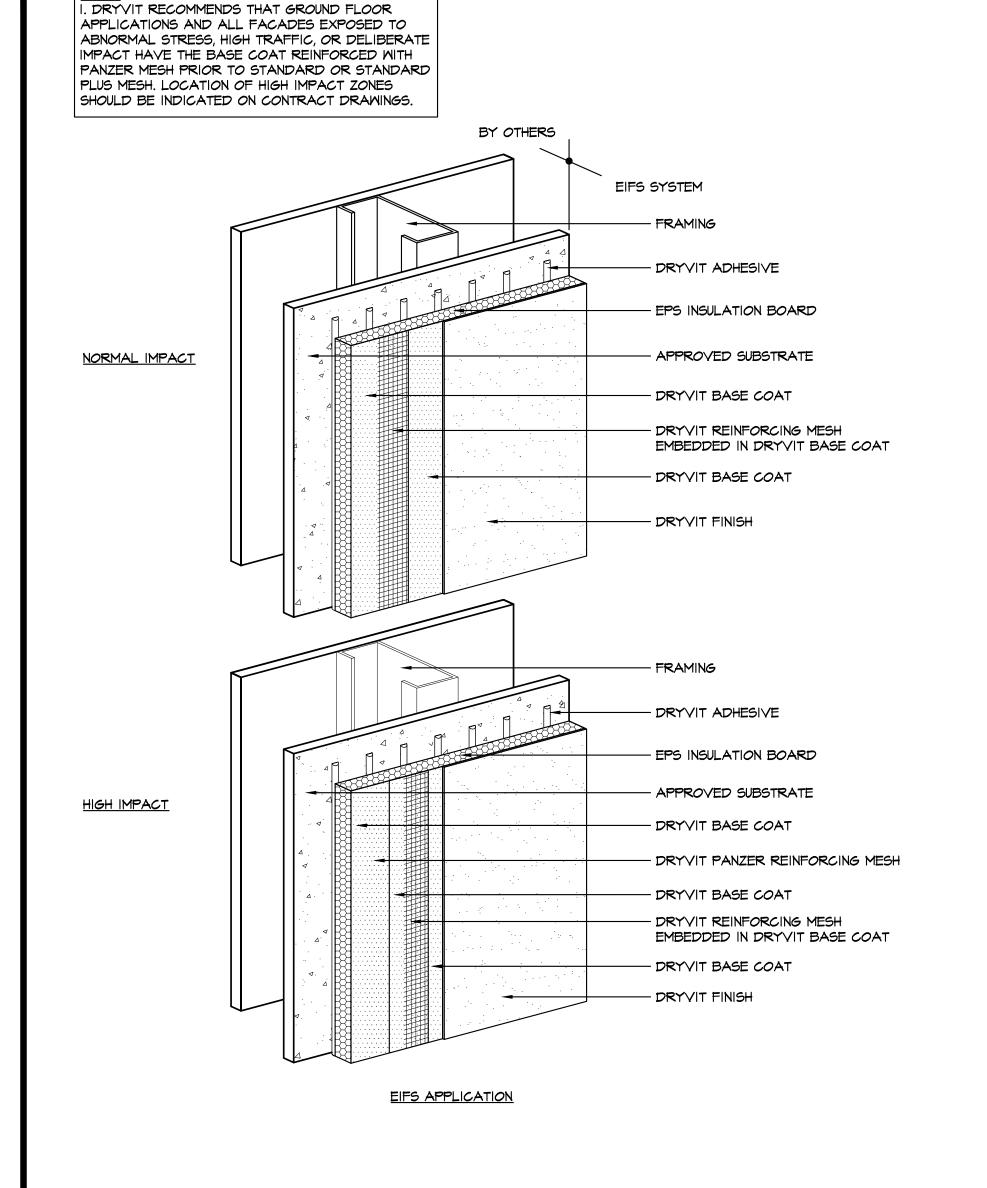
Drawn By:
A.T., N.C.
Checked By:
C.F., T.A.

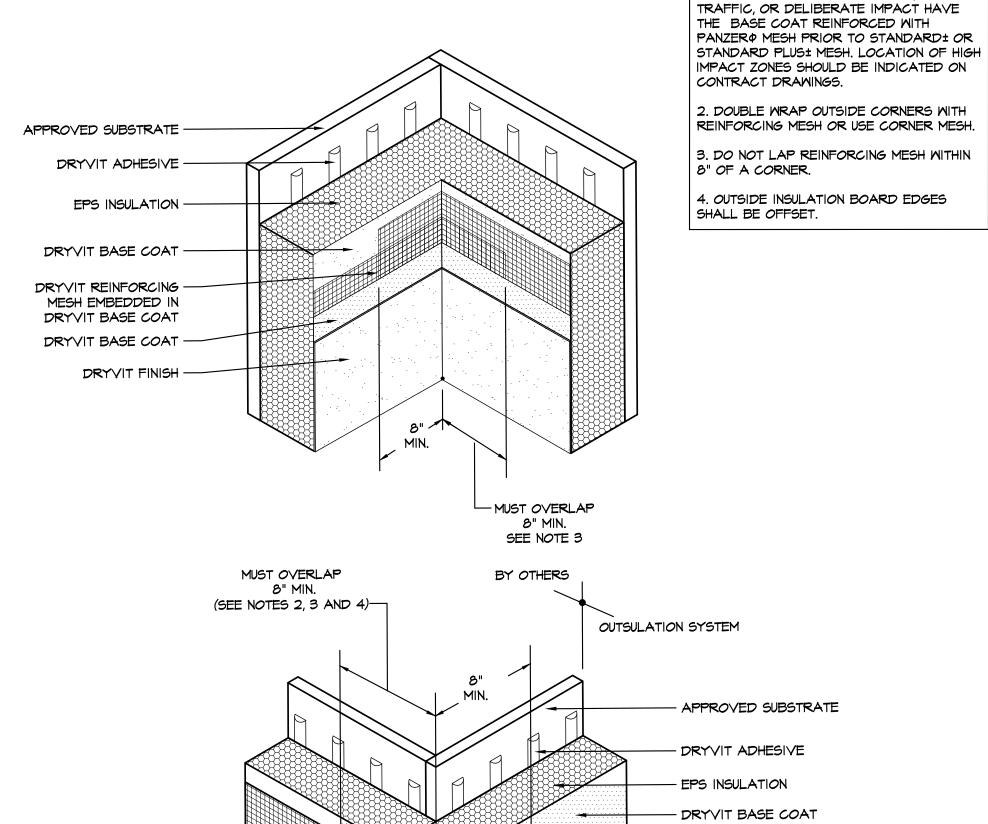
Job No:
22-O15

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SHOPPING

PEARL





I. DRYVIT RECOMMENDS THAT GROUND

EXPOSED TO ABNORMAL STRESS, HIGH

- DRYVIT REINFORCING MESH

EMBEDDED IN DRYVIT BASE

- DRYVIT BASE COAT

- DRYVIT FINISH

FLOOR APPLICATIONS AND ALL FACADES

BY OTHERS I. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH EIFS SYSTEM PANZER MESH PRIOR TO STANDARD OR STANDARD PLUS± MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS. 2. OUTSIDE INSULATION BOARD EDGES SHALL BE OFFSET. APPROVED SUBSTRATE - DRYVIT ADHESIVE - EPS INSULATION — DRYVIT BASE COAT DRYVIT PANZERA REINFORCING MESH - DRYVIT BASE COAT - DRYVIT CORNER MESH± DRYVIT BASE COAT DRYVIT STANDARD MESH OR STANDARD PLUS REINFORCING

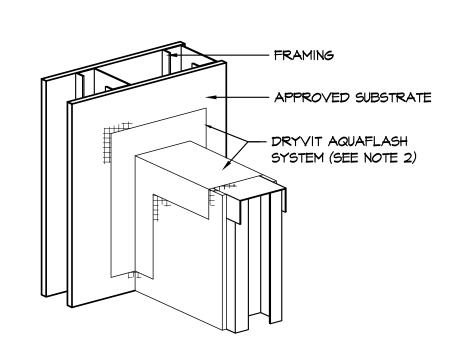
MESH OVERLAP MIN. 8" (203

MM) AT CORNER

- DRYVIT FINISH

EIFS DETAIL @ OUTSIDE CORNER - HIGH IMPACT

EIFS DETAIL @ INSIDE/ OUTSIDE CORNERS

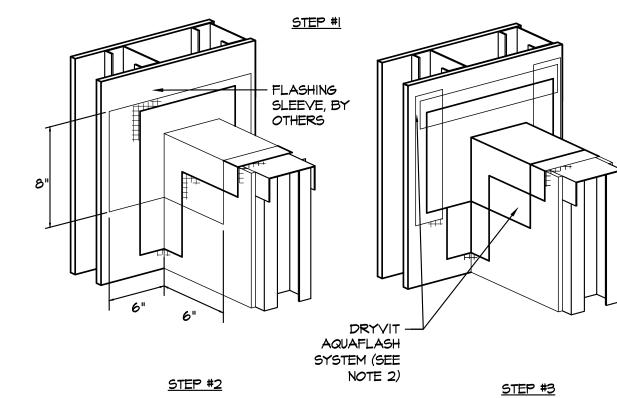


NOTE: I. DRYVIT FLASHING TAPE

AQUAFLASH SYSTEM.

SURFACE CONDITIONER AND

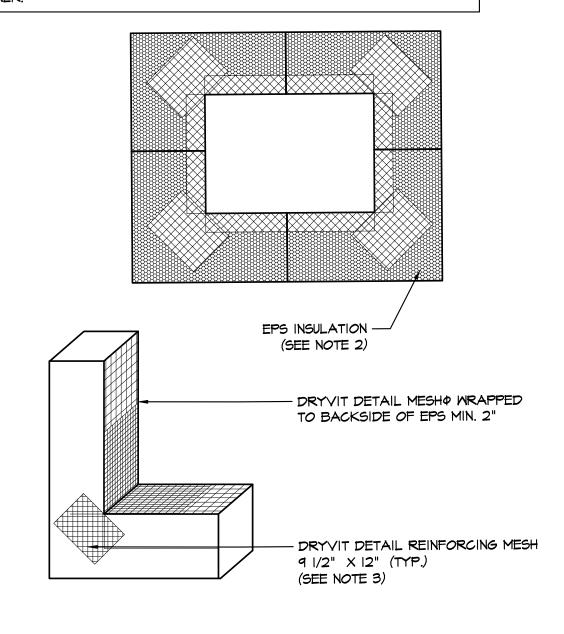
DRYVIT FLASHING TAPE MAY BE USED IN LIEU OF DRYVIT



EIFS PREPARATION AT PARAPET/ WALL <u>INTERSECTION</u>

I. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. LOCATE INSULATION BOARDS SUCH THAT BOARD EDGES DO NOT ALIGN WITH CORNERS OF PENETRATION. 3. APPLY A PIECE OF 9 1/2" X 12" DETAIL REINFORCING MESH DIAGONALLY AT EACH CORNER.



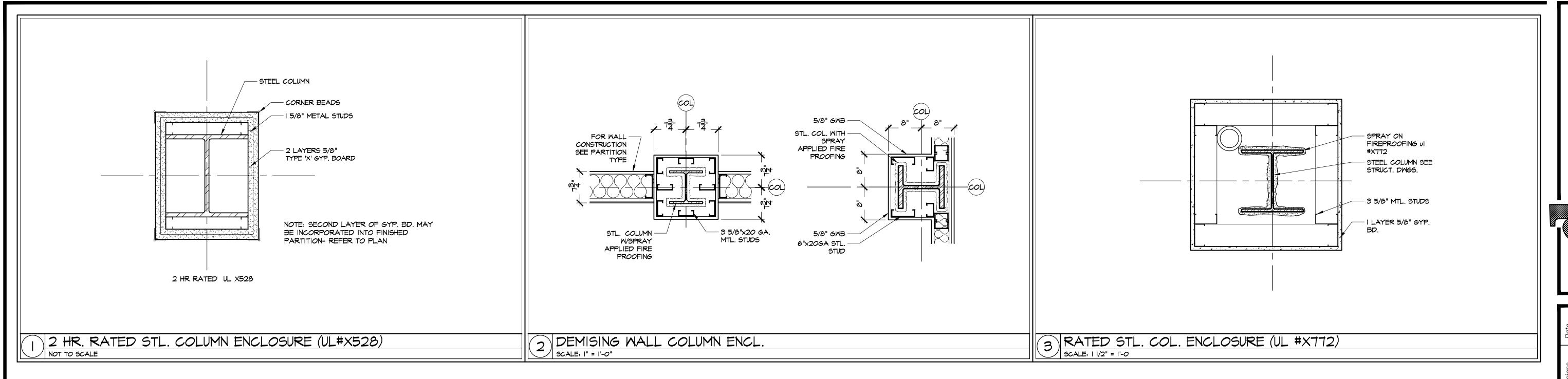
EIFS DETAIL - EPS PREPARATION AT WALL PENETRATIONS

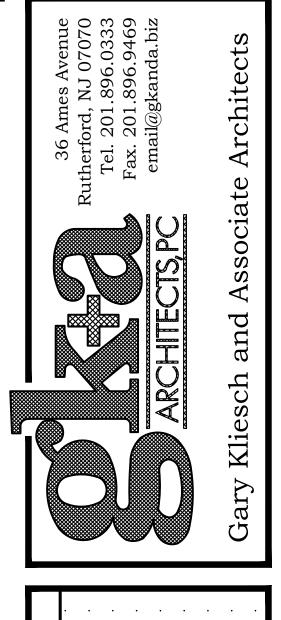
CENTER SHOPPING **PEARL**

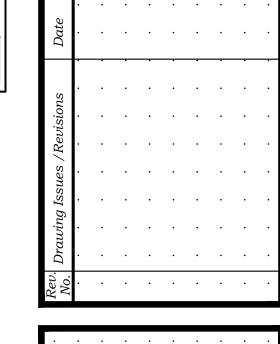
Drawing Title: EIFS DETAILS

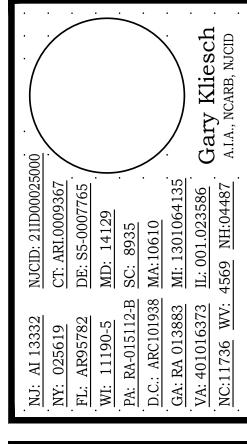
08/05/22

Checked By:









PROPOSED RENOVATION FOR:

PEARL RIVER

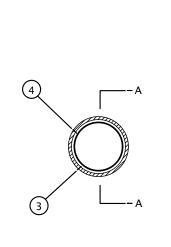
OO N. MIDDLETOWN ROAD

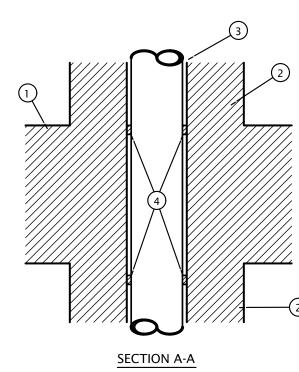
PEARL RIVER, ROCKLAND

COUNTY, NY 10965

| Drawing Title: PROPOSED I LEGEND, PAR TYPES | • | | | | |
|---|-----|-------------------|-------------|----------|---|
| | • | | | | ٠ |
| Date: 08/05/22 | Dи | ₽ <u>g</u> N | o. * | | |
| Drawn By: | | . ≠ | \triangle | ι. | |
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| Job No: | • | X c | ρŧ | X · | |
| 0 - 1 | | | | <u> </u> | |

System No. F-C-1009 F Ratings - 1 and 2 Hr (See Item 1) T Ratings - 1 and 2 Hr (See Item 1) L Rating At Ambient - Less Than 1 CFM/sq ft L Rating At 400 F - 4 CFM/sq ft





1. Floor-Ceiling Assembly - See detail

2. Wall Construction, see floor plans for partition type designations.

3. Through Penetrants - One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. An annular space of min 1/8 in. to max 3/4 in. is required within the firestop system. The following types and sizes of metallic pipes or

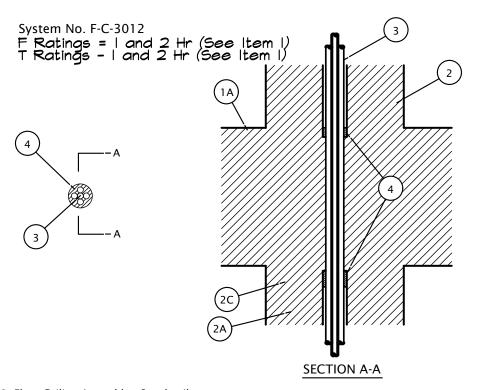
conduits may be used: A. Steel Pipe Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Iron Pipe Nom 4 in. diam (or smaller) cast or ductile iron pipe. C. Conduit Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.

D. Copper Tubing Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing. E. Copper Pipe Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe. 4. Fill, Void or Cavity Material* - Sealant - Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor. A generous bead of fill material also applied within the annulus of the top plate, flush with bottom surface of lower top plate.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP601S, CP606 or FS-One Sealant (Note: L Ratings apply only when FS-ONE Sealant is used.) *Bearing the UL Classification Marking

METAL PIPE THROUGH 1-HR FLOOR ASSEMBLY

UL/CUL SYSTEM No. F-C-1009



1. Floor-Ceiling Assembly - See detail A. Max diam of opening for 1 or 2 hr assembly is 2-1/2 in. or

2. Wall - The through penetrant (Item 3) shall be routed through a fire-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor-ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features: A. Studs Nom 2 by 6 in. or double nom 2 by 4 in. lumber studs.

B. Sole Plate Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly C. Top Plate The double top plate shall consist of two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening for 1 or 2 hr rated assembly is 2-1/2 in. or 2 in., respectively.

D. Gypsum Board* Thickness, type, number of layers and fasteners shall be

as specified in individual Wall and Partition Design. 3. Cables - In 1 hr fire-rated assemblies, aggregate cross-sectional area of cables in opening to be max 45 percent of the cross-sectional area of the opening (max 2 in. diam bundle). Cables to be rigidly supported on both sides of floor assembly. Any combination of the following types and sizes of copper conductors may be used

A. RG 59 coaxial cable with single copper conductor, cellular polyethylene cellular foam insulation and polyvinyl chloride (PVC) jacket. B. Max 8/C No. 22 AWG telephone cable with polyvinyl chloride (PVC)

C. Max 2/C No. 12 AWG cable with polyvinyl chloride (PVC) insulation and

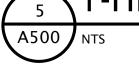
D. Max 3/C with ground No. 2/0 AWG aluminum or copper Type SER cable with polyvinyl chloride (PVC) insulation. E. Max 3/C with ground No. 2/0 AWG Type NM cable with polyvinyl chloride (PVC) insulation

F. Max 3/C No. 12 AWG MC (BX) cable with polyvinyl chloride (PVC) insulation 4. Fill, Void or Cavity Material* - Sealant - Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor. A generous bead of fill material also applied within the annulus of the top plate, flush with bottom surface of lower top plate.

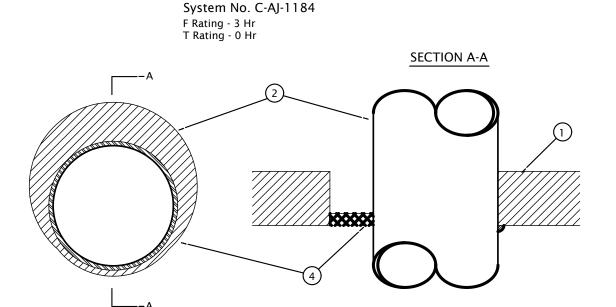
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS611A Sealant or FS-One Sealant

*Bearing the UL Classification Marking

CABLE/CABLE BUNDLE THROUGH -HR FLOOR ASSEMBLY



UL/CUL SYSTEM No. FC3012



1. Floor or Wall construction, see plans for wall designations. 2. Through-Penetrants One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (point contact) to max 3-1/4 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or

tubing may be used: A. Steel Pipe Nom 10 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Iron Pipe Nom 10 in. diam (or smaller) cast or ductile iron pipe. C. Conduit Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel

D. Copper Tubing Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing. E. Copper Pipe Nom 4 in. diam (or smaller) regular (or heavier) copper pipe.

3. Forms -- (Not Shown, Optional) during installation. Forms to be rigid sheet material, cut to fit the contour of the penetrating item and positioned as required to accommodate the required thickness of fill material. Forms to be removed after fill material has cured. Additional forming material may be used concrete block wall is penetrated. A min 1/2 in. thickness of min 4 pcf mineral wool batt insulation is firmly packed into the annulus as a permanent form and recessed from both surfaces of the wall as required to accommodate the required thickness of fill material.

4. Fill, Void or Cavity Material* -- Sealant within the annulus. At the point contact location between through penetrant and concrete, a min 1/2 in. diam bead of fill material shall be applied at the concrete through penetrant interface. When precast concrete units are used, the fill material shall be installed within annular space, flush with lower surface of floor. When concrete block wall is penetrated, a min 1 in. thickness of fill material shall be applied within the annulus flush with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS605 or FS-ONE Sealant *Bearing the UL Classification Marking

METAL PIPE THRU 1-HR CMU

System No. F-C-7013

F Rating = 1 Hr T Rating = 0 Hr

I. Floor-Ceiling Assembly - See detail

the UL Classification Marking

A500

UL/CUL SYSTEM No. CAJ 1184

0

SECTION A-A

UC/CUL SYSTEM No. FC 7013

A. Flooring System Lumber or plywood subfloor with finish floor of lumber,

Floor-Ceiling Design. Diam of opening shall be 1-1/4 in. larger than the

2. Steel Duct - Nom 4 in. diam (or smaller) No. 28 gauge (or heavier) steel

firestop system. The annular space between duct and periphery of

opening shall be min of 1/4 in. to max 3/4 in. Steel duct to be rigidly

sealant applied within the annular space, flush with top surface of floor

CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant *Bearing

METAL DUCT (WITHOUT DAMPER)

THROUGH 1-HR FLOOR ASSEMBLY

Min 5/8 in thickness of sealant applied within annular space, flush with

duct to be installed either concentrically or eccentrically within the

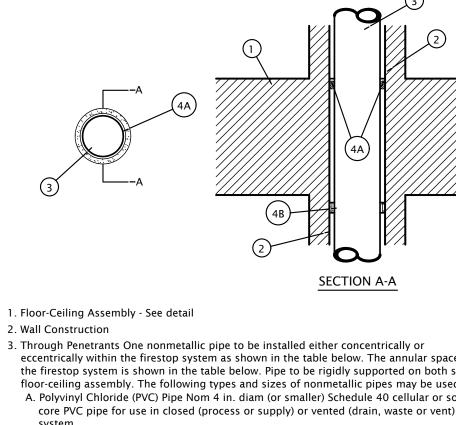
3. Fill, Void or Cavity Materials* - Sealant - Min 3/4 in. thickness of

bottom surface of gypsum wallboard or lower top plate. HILTI

plywood or Floor Topping Mixture* as specified in the individual

nom diam of duct (Item 2). max dia. of opening to be 5"

supported on both sides of floor-ceiling assembly.



System No. F-C-2185

F Rating - 2 Hr

eccentrically within the firestop system as shown in the table below. The annular space within the firestop system is shown in the table below. Pipe to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes may be used: A. Polyvinyl Chloride (PVC) Pipe Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping B. Acrylonitrile Butadiene Styrene (ABS) Pipe Nom 4 in. diam (or smaller) Schedule 40

cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. C. Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 4 in. diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

D. Crosslinked Polyethylene (PEX) Tubing Nom 1 in. diam (or smaller) SDR 9 PEX tube for use in closed (process or supply) piping systems. 4. Firestop System The firestop system shall consist of the following: A. Fill, Void or Cavity Material* -- Sealant Min 3/4 in. thickness of fill material applied

within the annulus, flush with top surface of subfloor. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant

B. Fill, Void or Cavity Material* -- Wrap Strip Nom 1/4 in. thick by 1 in. wide intumescent wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe below the top plates of the wall according to the table below and slid into annular space such that the bottom surface of the wrap strip is flush with the bottom surface of the lower top plate. When multiple wrap strips are used to achieve the required total length, the ends are to be butted end-to-end and held in place with aluminum tape. HILTI CONSTRUCTION CHEMICALS, DIV OF

| Nom Pipe Diam In. | Nom Annular Space at Subfloor In. | Nom Annular Space at Top Plate In. | Wrap Si Layers Require |
|----------------------|---|--|------------------------------|
| Less than 2 | 1/4 to 7/16 | 5/8 | 2 |
| 2 | 1/4 to 7/16 | 5/8 | 2 |
| 3 | 1/4 | 3/4 | 3 |
| 4 | 1/4 | 3/4 | 3 |

System No. C-AJ-0090

F Rating - 2 Hr

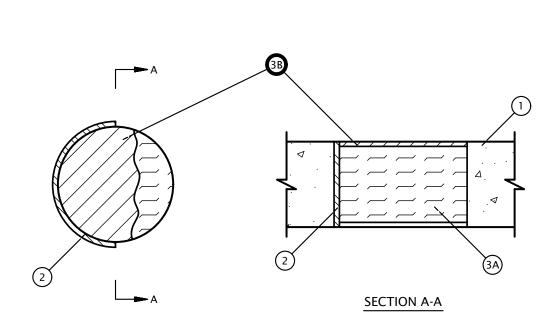
T Rating - 1-1/2 Hr

PLASTIC PIPE THROUGH 1-HR FLOOR ASSEMBLY

HILTI INC -- CP645 Wrap Strip

*Bearing the UL Classification Mark

UL SYSTEM No. F-C-2185



1. Floor or Wall Assembly -- Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diameter of opening is 6 in.

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Steel Sleeve -- (Optional)-Nom 6 in. diameter (or smaller) Schedule 40 (or heavier) steel pipe cast or grouted into the floor or wall assembly, flush with floor or wall surfaces.

3. Firestop System -- The firestop system shall consist of the following:

A. Packing Material -- Min 4 in. thickness of 4 pcf mineral wool batt insulation tightly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor and both surfaces of wall as required to accommodate the required thickness of fill material. B. Fill, Void or Cavity Materials* -- Sealant -- Min 1/4 in. thickness of fill

material applied within the annulus, flush with top surface of floor. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE Sealant

*Bearing the UL Classification Mark **OPENING THROUGH WALL**



UC/CUL SYSTEM No. C-AJ-0090

System No. F-C-2205 F Rating - 1 Hr T Rating - 1 Hr **SECTION A-A**

1. Floor - Ceiling Assembly - See detail A. Rectangular cutout in flooring to accommodate the bathtub drain piping (Item 2) to be max 8 in. by 12 in. Cutout to be patched on underside of subfloor using one layer of min 3/4 in. thick plywood or min 5/8 in. thick gypsum board (Item 1C) sized to lap min 2 in. beyond each edge of rectangular cutout. Patch split into two pieces at opening and hole-sawed for bathtub drain piping. Diam of opening hole sawed through patch to accommodate drain piping (Item 2) to be 1/2 in. larger than outside diam of drain piping and positioned such that the drain piping is centered in opening. Two pieces positioned around drain piping, with cut edges tightly butted, and screw-attached to underside of subfloor with 1-1/4 in. long steel screws spaced max 6 in. OC.

2. Drain Piping Nom 1-1/2 in. (or smaller) diam Schedule 40 acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) pipe and drain fittings cemented together and provided with ABS or PVC bathtub waste/overflow fittings. Annular space shall be 1/4 in.

3. Fill Void or Cavity Materials* - Wrap Strip Nom 1/4 in. thick by 1 in. wide intumescent wrap strip. One layer of wrap strip wrapped around drain piping with ends butted and held in place with masking tape. Wrap strip installed within annulus flush with bottom surface of plywood or gypsum board patch.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP 645 Wrap Strip *Bearing the UL Classification Mark

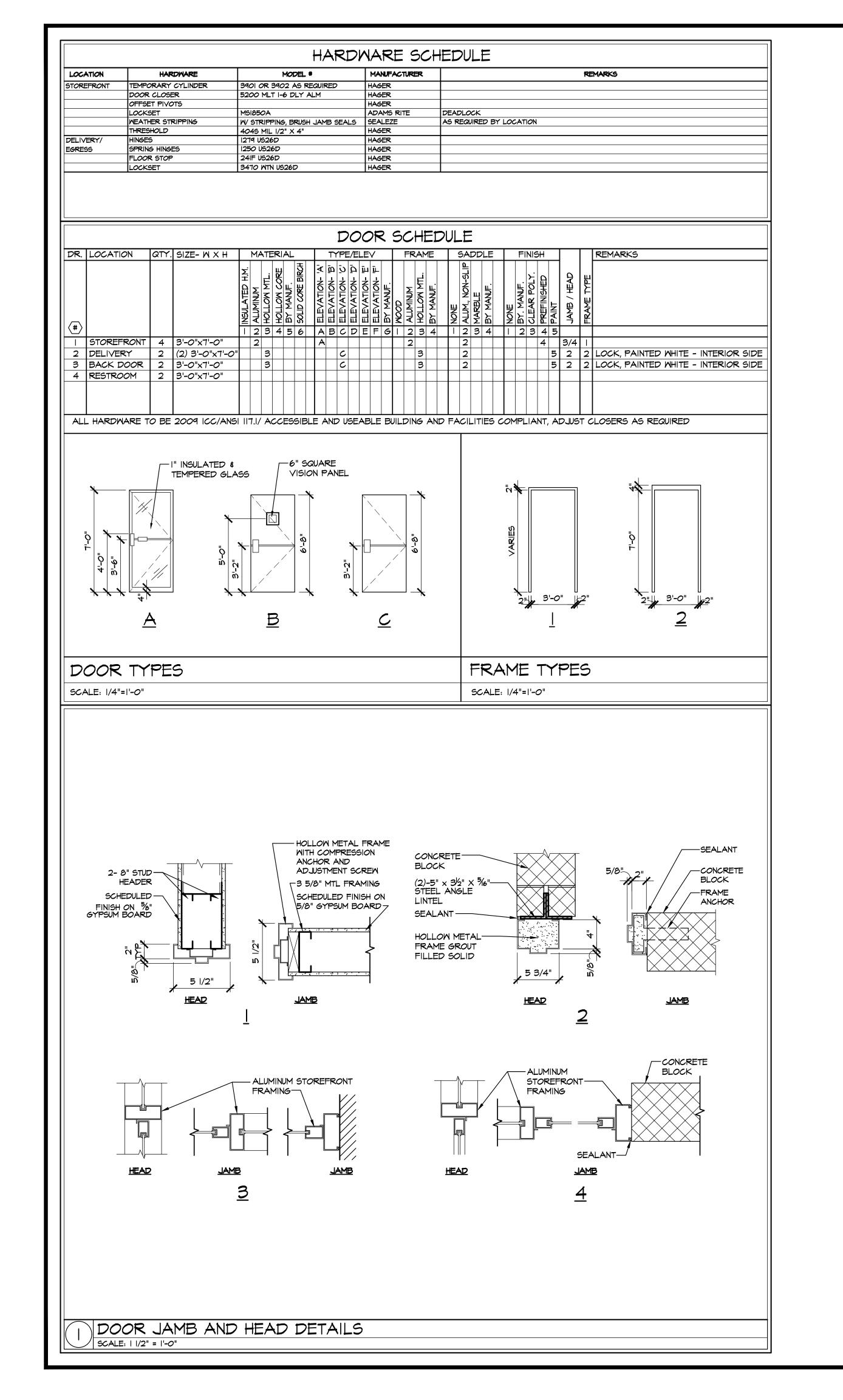
PLASTIC PIPE THROUGH 1-HR FLOOR/CEILING ASSEMBLY UL SYSTEM No. F-C-2205

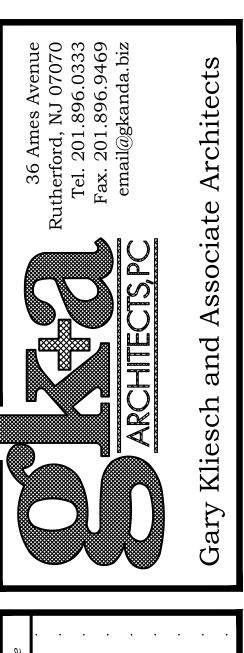
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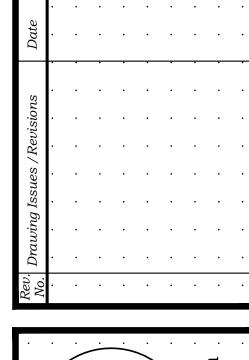
SHOPPING PEA

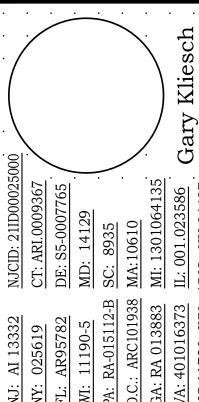
FIRE STOPPING DETAIL 08/05/22

Checked By: 5 of 16







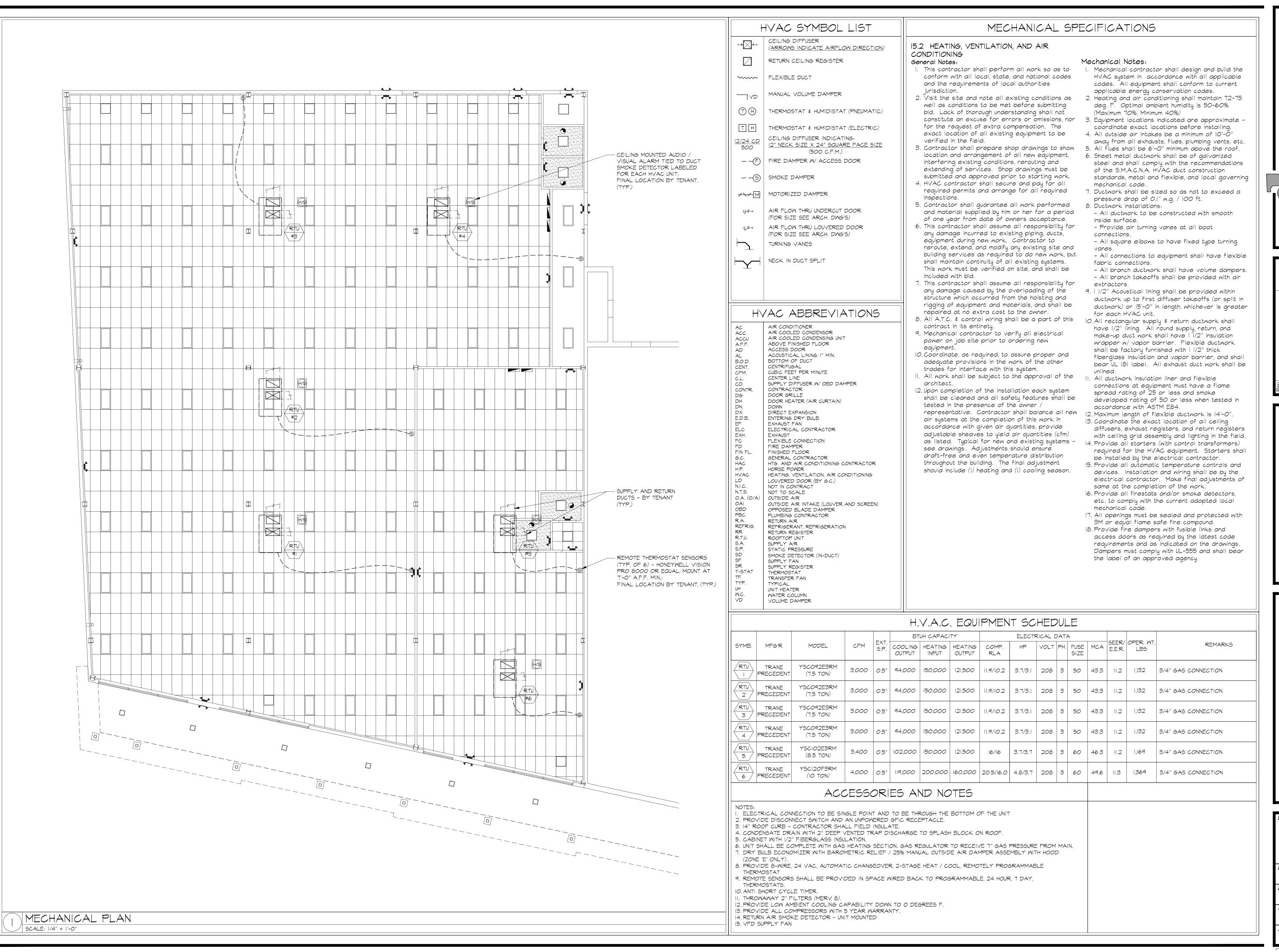


PROPOSED RENOVATION FOR:
PEARL RIVER
SHOPPING CENTER

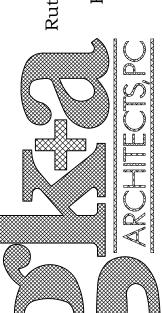
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| DETAILS | | | |
| Date: 08/05/22 | Dwg No. | | |
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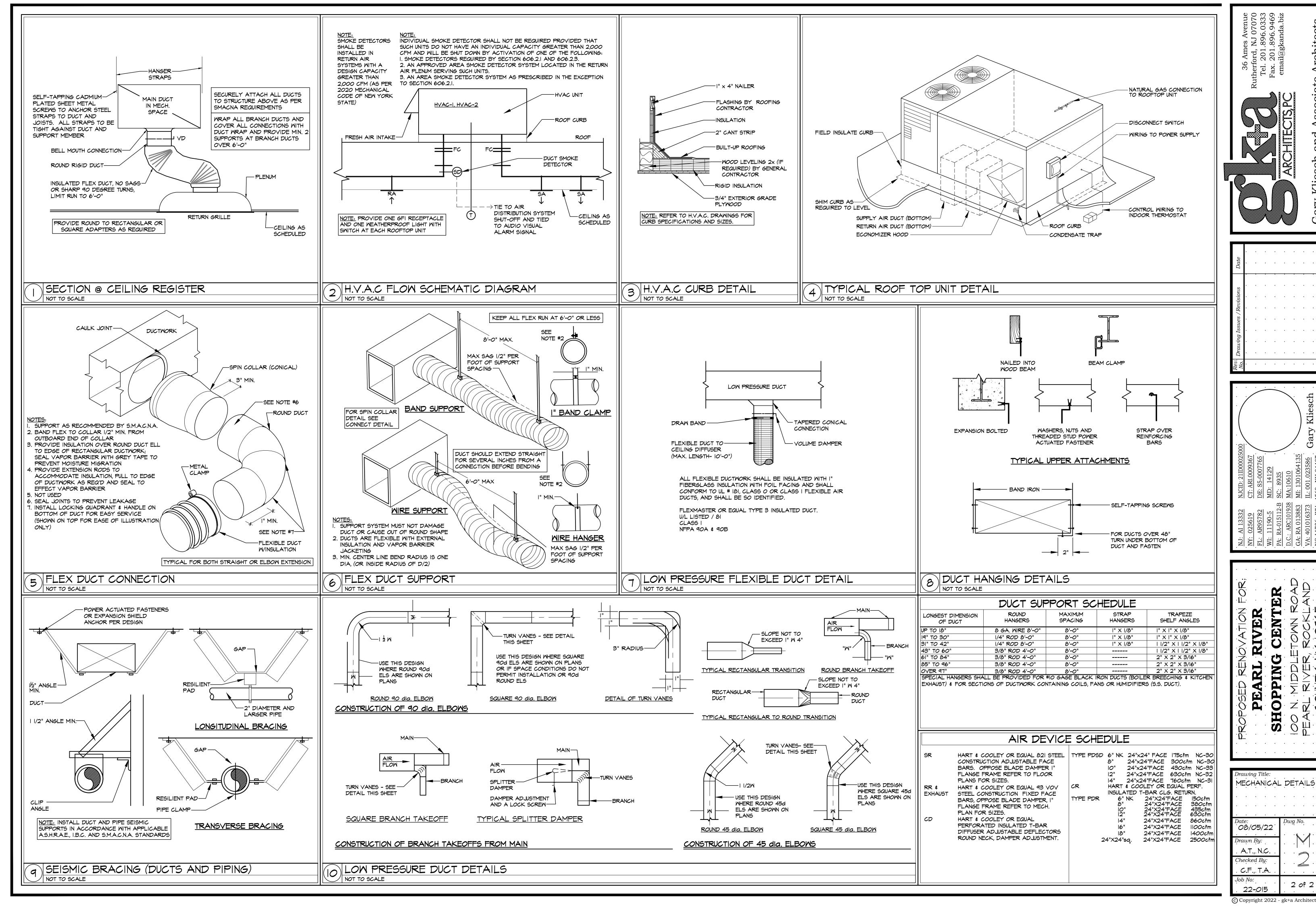


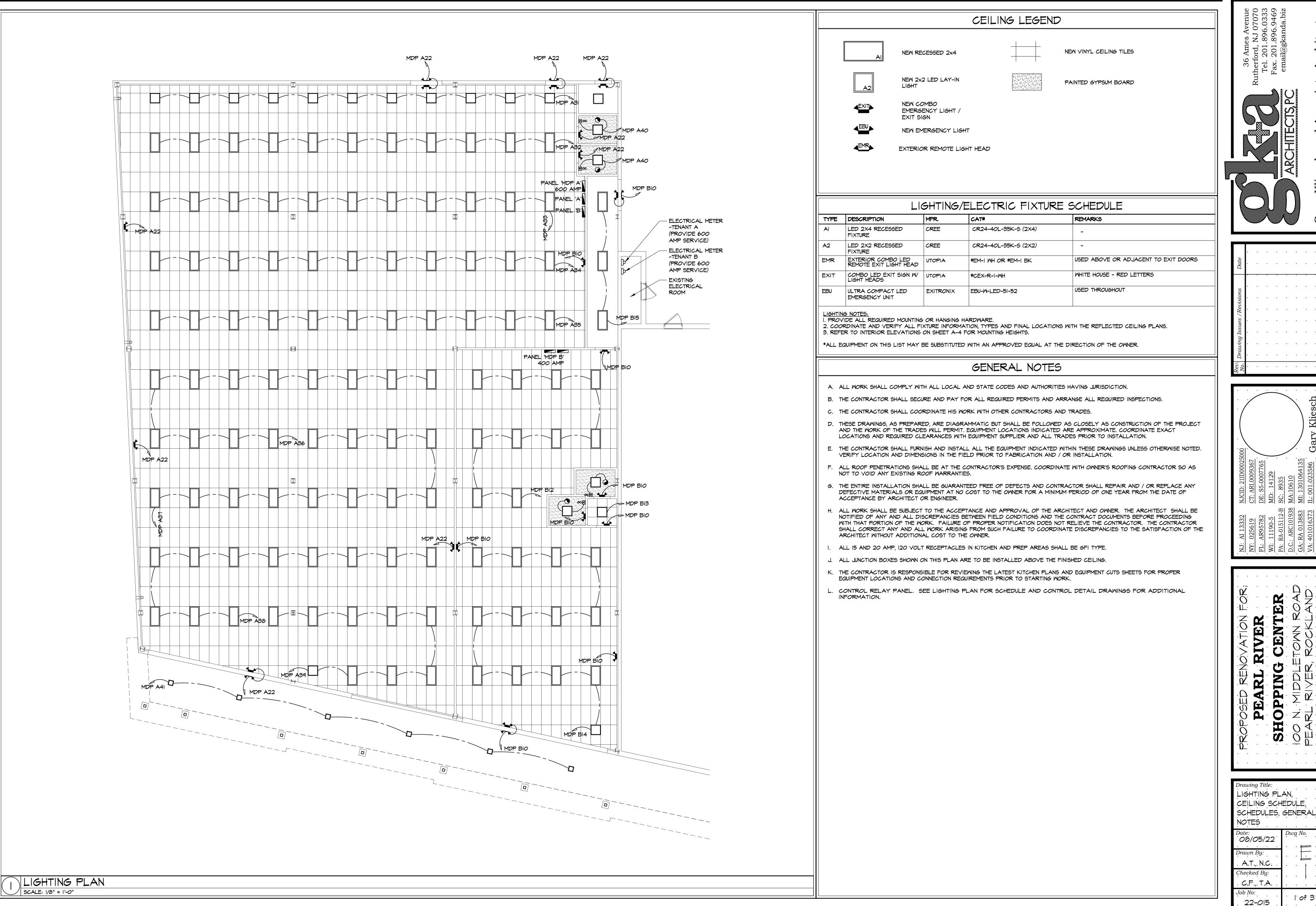
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Drawing Title: MECHANICAL PLAN, HVAC SCHEDULE SPECIFICATIONS Dwg No. 08/05/22 Drawn By:

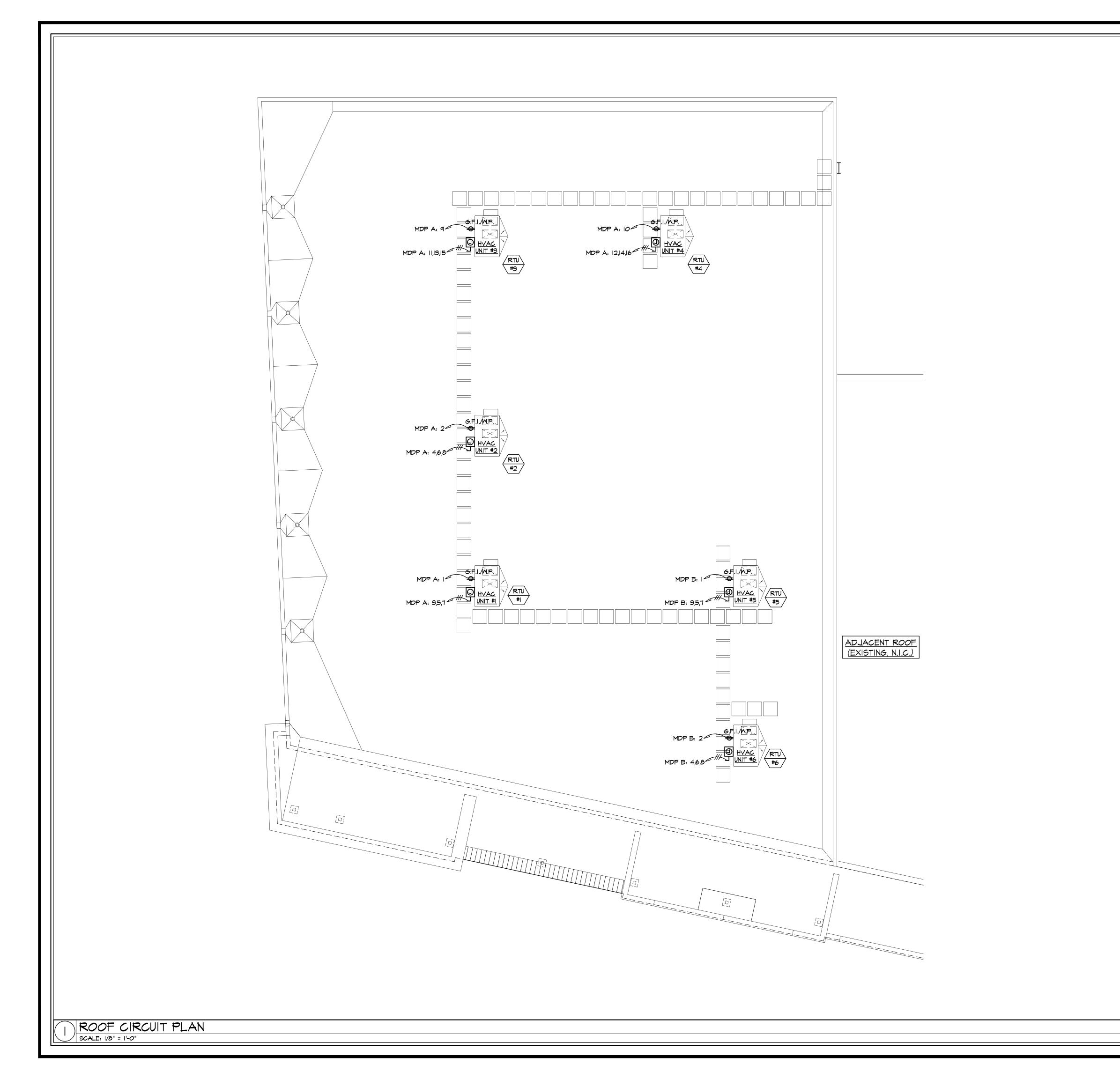
A.T., N.C. Checked By: C.F., T.A. Job No: 1 of 2





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SHOPPING



- codes and regulations, G.C. must comply with: National Electrical Code (latest edition), Requirements of Underwriters Laboratory Inc., OSHA, NFPA,
- shall pay any fees levied for service. Provide meter cans or c/t cabinets
- other approved inspection agency certificate of "electrical inspection". These certificates shall be presented with request for final payment.
- 4. Coordinate exact location of all fixtures and outlets with architectural
- 6. Contractor shall provide temporary power and light during course of
- construction. Power consumed shall be paid for by the owner.
- 8. Contractor shall do cutting, drilling and patching to a like condition for
- conduits passing through fire rated partitions. 9. Contractor to remove and reinstall all ceiling tiles as required for the
- 10. During construction, contractor shall remove all debris and store at location as directed by owner. No items shall be left as to cause a hazard during
- II. Electrical contractor to verify location of duplex outlets and any special outlets with the franchisee.
- 12. Ground all systems and equipment according to N.E.C. Provide supplemental ground as réquired. Ground electrode conductors to be sized as required.
- required except as noted.
- 15. Contractor to coordinate all electrical hookups w/ Construction Manager and equipment order to verify latest equipment and proper quantities are shown.
- 16. Contractor to confirm entire load and service supply to building and
- specification grade color of devices for all areas shall be Ivory for toggle switches and White for convenience outlets. All finished device plates shall be brushed stainless steel or approved equal.
- 2. All wirenuts shall be 3M wing nut type with interior copper thread coils.
- 4. Panels shall be as manufactured by Square D, labeled suitable for service entrance equipment. Panels shall be bolt-on breaker type. Coordinate interrupting capacity of panels and all breakers w/ Utility Co.; Provide type
- 5. Raceways and Conduits: All raceways within return air ceilings shall be EMT with steel set screw fittings, short connections to lighting fixtures shall be flexible metallic raceway. Short final connections to all new and existing vibrating equipment shall be sealtite. MC cable may be used above hung ceilings and in partition walls where allowed by code and approved by the architect, in this case EMT shall be used from the panel to the first outlet then MC cable thereafter. EMT shall be used in voids of block walls. EMT shall be used where run exposed in all unfinished areas. Surface metal raceway (Mire Mold) shall be used where run exposed in finished areas. Schedule 40 PVC conduit may be used in poured concrete slabs and walls with steel elbow exiting pour and use of green ground wire. All panel feeders shall be EMT. All wiring methods must conform to Article #518 of the
- transformers and other floor mounted electrical equipment shall be laterally braced in accordance with current adopted local building code.
- wire to 120v. circuit in interior space with 2 #12- 3/4" conduit.
- 8. Only copper conductors to be used. All contractors to run in metallic tubing in exposed location. As applicable, BX cable can be used unless prohibited by code. Minimum size of conductor, AMG No. 12. (or to be determined by

- II. Reuse existing circuits and provide new circuits as required.

- 14. All outlet boxes shall be steel, extra deep with grounding pigtails (grounding push-clips are not acceptable) - provide proper type connectors at all
- 16. No communications, telephone, security alarm, fire alarm, data or control
- 17. The bank circuit feeding the emergency and exit lights shall be the same circuit as that serving normal lighting in the area and connected ahead of
- 18. Fascia sign junction boxes to be mounted on the inside of the wall, extend

drawings for all POS and communications schematics and notes.



<u> 16.1 Electrical</u> General Notes:

- I. In addition to compliance with all local, county, state, and other pertinent
- and Utility Co. 2. Electric service shall be coordinated with the Utility Company. Contractor
- as required. 3. Contractor shall obtain and pay for both rough and final underwriters or
- drawings and equipment supplier's recommendations.
- 5. Contractor shall visit site to gain familiarity with all conditions of area.
- 7. All work shall be avaranteed for a period of one year from date of acceptance by owner/architect.
- installation of his or her work. Provide 3M fireproofing compound on all
- installation of his or her work. Replace all ceiling tiles broken during
- working hours. Coordinate with owner areas that work can be done in.
- 13. The contractor shall furnish and install all wiring, equipment, material, etc.
- 14. All wiring installed under this contract shall be tested for proper connections, short circuits and grounds prior to completion of work.
- Notify architect of any discrepancies.
- coordinate electric panels accordingly.

Electrical Notes

- I. All wiring devices shall be as manufactured by Hubbell or GE, 20a rated,
- 3. All branch circuit wiring and panel feeders shall be THHN/THMN 600v, cu. All wiring installed in damp location shall be THWN 600v, cu.
- written directories for all panels per circuit usage.
- National Electric Code current édition.
- 6. All conduit 2-1/2" \$ larger, busways, bus duct, switchboards, generators,
- 7. Provide GFI W.P. outlet and "Stonco VKIGC" fixture with prismatic lexan globe and cast quard mounted on I" conduit pipe stanchion strapped to roof top mechanical unit. Fixture to be mounted at 5'-0" above unit. Provide switch for light at access to roof or where directed by owner / architect,
- load requirements)
- 9. Do not connect more than 8 general duplex receptacles to one 20 amp
- 10. Relocate all wiring and devices as required to conform with new or modified layout. Electrical contractor to disconnect all wiring not in use.
- 12. Control wiring shall not be less than #14 AWG.
- 13. All conduits passing through partitions are to be appropriately sleeved and
- boxes for conduit and BX cables.
- 15. All conduits entering and leaving panel board, wireways, and pullboxes shall be labeled with indelible marker as to circuits and locations served.
- cables may be strapped to plumbing pipe runs.
- any local switches. Unit equipment shall supply emergency illumination for a period of at least I hour (60 minutes).
- circuit to sign in water resistant boxes with shut-off switch.
- 19. Furnish and install all conduit for telephone systems as required. 20. Provide CAT 5 10-Base-T cable and RJ45 termination points as indicated on drawings. Pull wire to each terminal, using equal lengths of cable from middle of front counter. Network hub is located at front line. Refer to

Drawing Title: ROOF CIRCUIT PLAN, ELECTRICAL SPECIFICATIONS 08/05/22 A.T.,. N.C. Checked By:

C.F., T.A.

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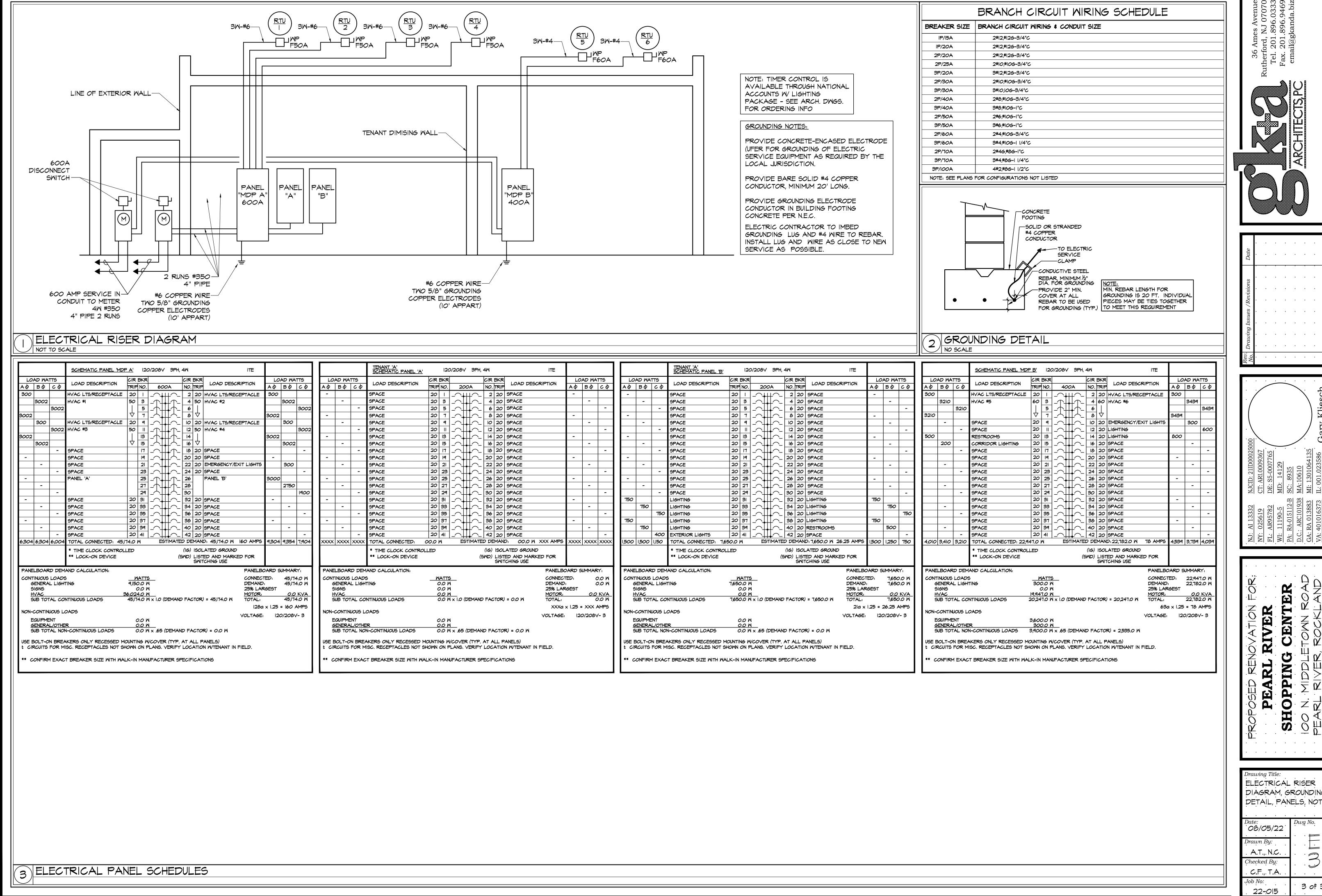
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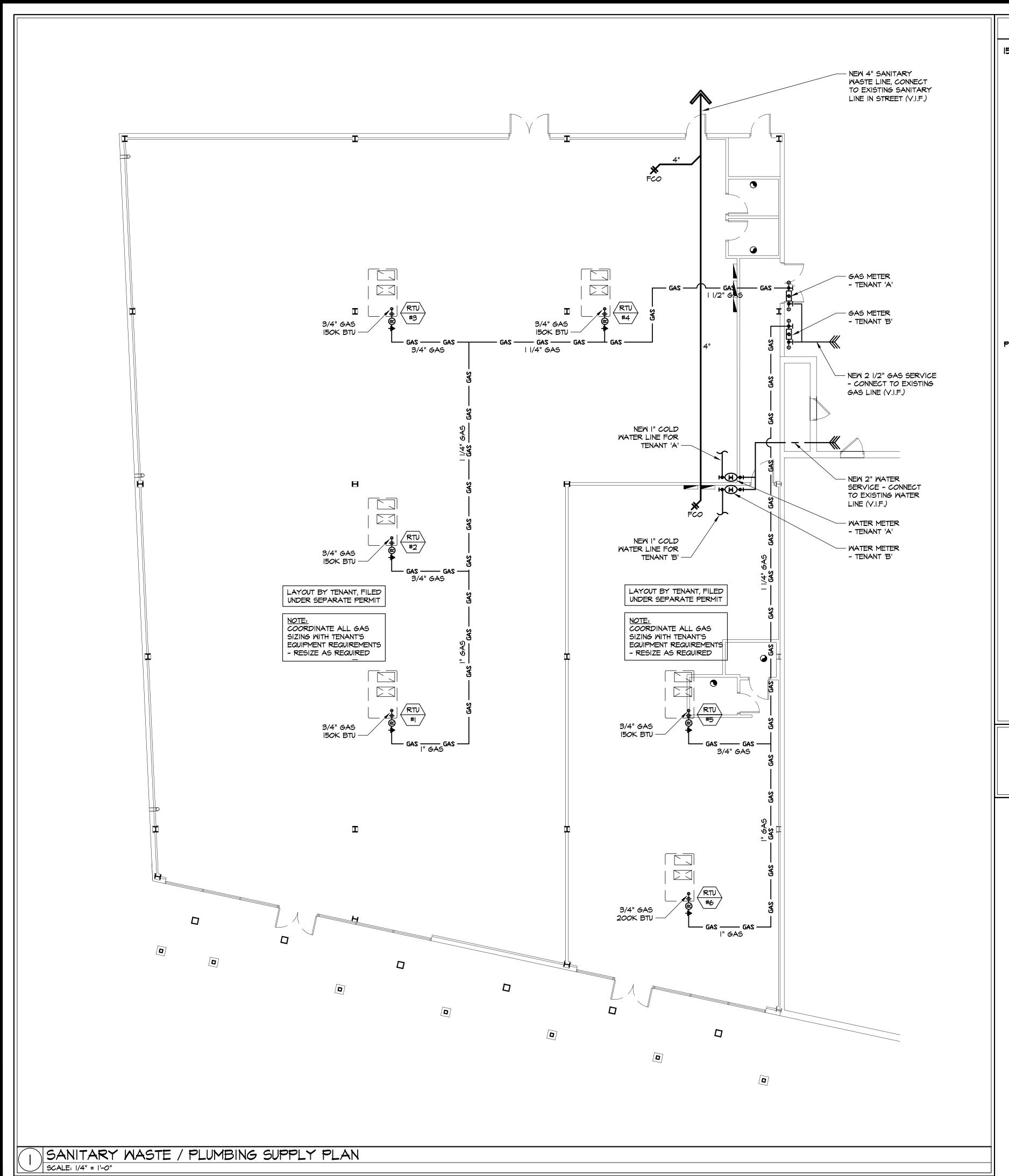


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Drawing Title: ELECTRICAL RISER DIAGRAM, GROUNDING DETAIL, PANELS, NOTES

Dwg No. 08/05/22 Drawn By: A.T., N.C. \sim Checked By: C.F.,. T.A. Job No:



PLUMBING SPECIFICATIONS

15.1 PLUMBING

General Notes: I. All work shall be installed in accordance with the requirements of the authorities having jurisdiction and the latest edition of the local governing plumbing code.

2. Plumbing contractor shall examine the site and review the drawings and specifications prior to submitting a proposal.

3. Plumbing contractor shall secure and pay for all required permits and arrange all required inspections.

4. Furnish all equipment, labor, and material as necessary to complete the following systems: sanitary sewer (including soil and vent); water service; water meter; tap valve box; water supply (hot and cold, including all required 140 degree piping); gas piping; hot water heater; plumbing fittings and fixtures along with required fittings and controls; connection of all equipment provided by Lessee/Franchise Owner; and all other work required to all systems.

5. All kitchen, prep area and sales area equipment will be furnished and installed. Equipment will be furnished with trim, faucets, escutcheons, etc. Plumbing contractor shall provide all rough-in traps and make all final connections (see Equipment Schedule).

6. All piping is shown diagrammatic. Exact locations shall be determined in the field. See Plumbing Plan for critical dimensions. Equipment locations indicated are approximate. Coordinate exact locations and required clearances with equipment supplier and all trades prior to installation. CCoordinate plumbing work with other contractors in establishing pipe runs and space conditions.

7. See Equipment Schedule for equipment specifications. Refer to shop drawings and cut sheets of equipment and fixtures for exact locations of plumbing connections.

8. Entire installation shall be guaranteed free of defects and contractor shall repair and/or replace any defective materials or equipment at no cost to the owner for a period of one year from the date of acceptance by engineer/architect.

9. All work shall be subject to the approval of the architect.

Plumbing Notes:

All new piping for such items as gas lines, vent lines, hot and cold water supply, and waste lines etc. shall be compatible with existing piping material and shall conform with governing codes.

2. All cutting and patching that may be necessary for the installation of the piping for the plumbing system shall be repaired by the plumbing

3. Tap into existing cold water lines as directed by landlord / owner. Provide new as appropriate for the project. No water lines are to be undersized.

4. Location of existing lines, supply and waste, shown on drawing are approximate based on visible connections, cleanouts, manholes, etc... Contractor to verify locations, pitches, and elevations in the field prior to starting work and make any required modifications to system without additional cost.

5. All piping shall run in concealed spaces unless otherwise noted. 6. All hot water heaters to have pressure/temperature relief valve. Where all hot water lines are located at the elevation above the fixture outlet,

a vacuum relief valve shall be installed. Provide for indirect drain with air gap. Carry indirect waste line to nearest floor drain or mop sink. 7. Provide shut off for hot and cold water lines at each fixture, and/or

groupings of fixtures. 8. Unless otherwise called for, plumbing lines are to be concealed and made

-Underground sanitary drain ...Extra heavy cast iron or PVC -Above ground drain \$ vent ...Galvanized steel or no-hub ci or

-Above ground cold \$ hot water ...Copper, type "L", w/ lead free

-Below ground cold \$ hot water ... Type "K" soft tubing

...Black steel, Sch. 40 -Gas piping -Valves (water) ...Bronze -Valves (qas) ..Lubricated plug

Provide underground hot and cold water piping with ½" thick Armaflex

Hot and cold piping and fitting shall be insulated with I" thick fiberglass having a factory applied all service jacket (asj).

9. Copper tubing connections for potable water to contain a maximum of

0.2% lead.

10. Floor drains to be equipped with approved trap primer device with back flow preventer with 1/2" water connection or shall have a minimum 4" deep

locations, and any other through roof penetrations. 12. All roof penetrations shall be coordinated with landlord / landlord's roofing contractor so as not to void all existing roof warranties and shall be at the contractor's expense. Contractor is to maintain minimum clearance from through roof vents to HVAC air intake units, make up air

II. Contractor is responsible for patching and flashing of new vent lines,

unit or other mechanical systems. 13. All kitchen and sales area equipment, toilets, lavatories, etc., will be finished with trim and faucets unless otherwise noted. Plumbing contractor

shall rough-in all traps and make all final connections. 14. Plumbing contractor shall furnish and install all gas piping and make all final connections. Gas piping shall have screwed malleable iron fittings.

15. See interior toilet elevations for dimensions affecting this work. 16. All soil and waste piping shall pitch a minimum of 1/8" per linear foot. All cleanouts to be extended to finish floor level. Cleanout to be maximum distance between required equipment. Provide a cleanout at every

change of direction and at distances not to exceed 75 ft. 17. Contractor shall provide and install all pipe hangers, and supports in accordance with the current adopted local plumbing code.

18. Plumbing contractor shall furnish and install all back-flow protection devices required by agencies having jurisdiction.

Plumbing Equipment:

Water Closet (barrier free) Manufacturer: American Standard Style: Madera "hands free"

Color: White Model No. 3043.102 with American Standard Selectronic Sensor Operated toilet flush valve Model # 6067.111.002

Lavatory (barrier free) Manufacturer: Sloan

Style: Optima #ETF-600 with transformer "hands free"

Faucets: #2385.009 by Reliant, %" chrome supplies w/ angle stops, adjustable "P" brass trap to suit grid drain, tubing drain to wall, 11/4" inlet, 11/2" outlet, escutcheon - chrome finish.

Model#EL-154 and aerator #ETEF-1024-A Floor Drains

Set drains lower than floors and pitch all floors toward drains - typ. Manufacturer: Josam Manufacturing Company

Model: #30000-A (Floor Drain)

Model: #49300-NB w/ half-grate nickaloy top and sediment bucket (Floor Sink)

Condensate I.W. drip drains shall be hub drains, floor drains with open funnel type or floor sinks with integral trap as shown on drawings or as required by code, as manufactured by the Josam Company or Jay R. Smith, Inc. All

condensate drain lines from equipment drain shall be PVC. All Exposed parts to be cast iron finish.

Back Bar Stop Valves and Fittings Manufacturer: American Standard

Model: #8201.22

Finish: Chrome Plated Grease Trap

Manufacturer: Josam Manufacturing Company

50 lb. Model: #60106H (floor) / #60106H-RT (recessed) Features: 25 GPM control valve, Removable bucket. Waste from any food disposal shall not run through grease trap. Top cover w/ twist lock handle to be flush with quarry floor tile when recessed

Hot Water Heater Tank Type

Gas fueled: A.O. Smith: BT-65 or approved equal

BTU: 60,000 Storage: 50 gallon ADDITIONAL PLUMBING NOTES:

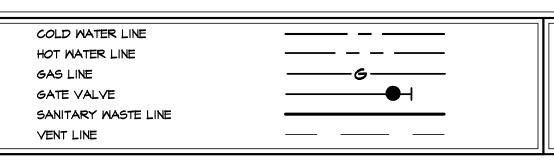
I. Contractor to provide mixing valve (anti-scald) at all hand washing sinks. 2. Contractor to provide backflow preventers at all coffee makers, ovens,

dipping wells, ice maker. 3. Plumbing contractor to provide aerators on all hand sinks and lavatories. PIPE INSULATION NOTES:

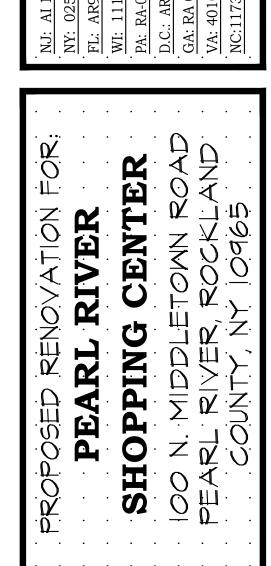
A. HOT WATER PIPE INSULATION: 1/2" for pipes <1.5" dia., 1" for pipes >=1.5"

B. CHILLED WATER / REFRIGERANT / BRINE PIPE INSULATION: I/2" for pipes

< 1.5" dia., 1" for pipes >= 1.5" dia. C. STEAM PIPE INSULATION: 1 1/2" for pipes < 1.5" dia., 2" for pipes >= 1.5"



**NOTE: DO NOT SCALE OF DRAWINGS. PLUMBER TO COORDINATE EXACT LOCATIONS OF CONNECTIONS WITH EQUIPMENT SPECIFICATIONS



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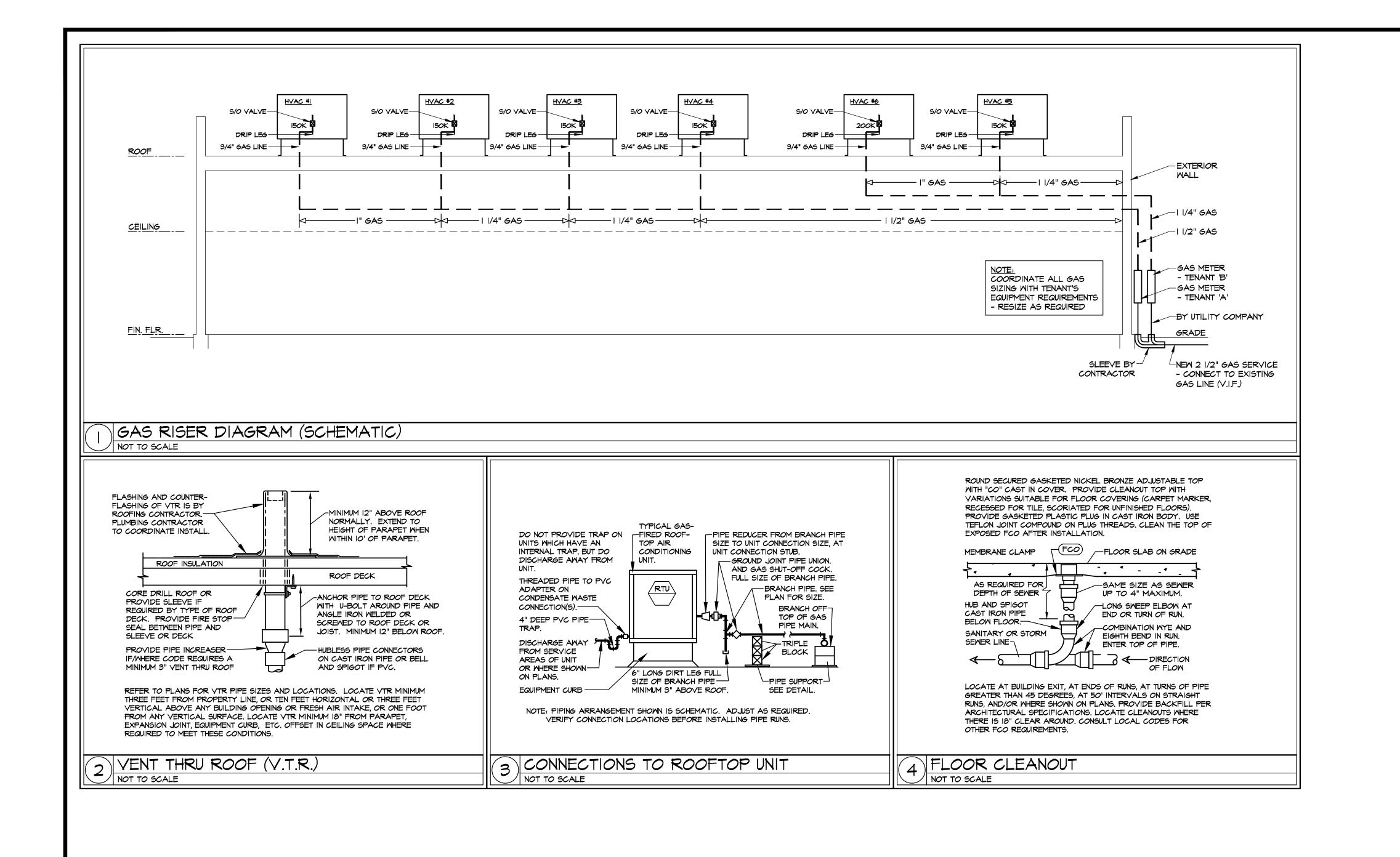
Drawing Title: SANITARY WASTE & PLUMBING SUPPLY PLAN, PLUMBING NOTES # SPECIFICATIONS 08/05/22 Drawn By: A.T.,. N.C. Checked By: C.F.,, T.A.

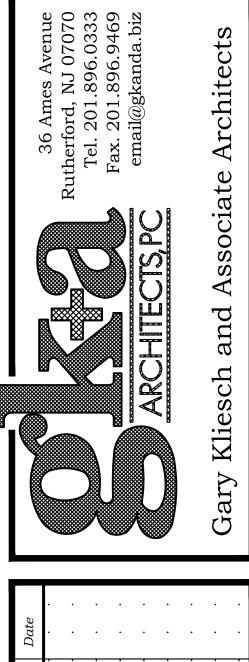
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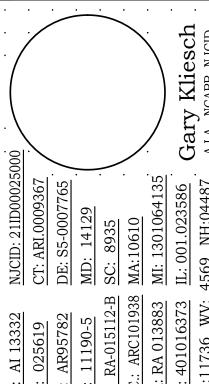
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PROPOSED RENOVATION FOR:

PEARL RIVER

SHOPPING CENTER

100 N. MIDDLETOWN ROAD
GA:
PEARL RIVER, ROCKLAND
COUNTY, NY 10965

| Drawing Title: | |
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| PLUMBING D | ETAILS |
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