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addendum no. one

OWASSO PUBLIC SCHOOLS
Owasso 8th Grade Addition

Owner:
Independent School District No. 11
Tulsa County
Owasso, Oklahoma

Architect: The Stacy Group
Project Number: 2407

03.02.2026

8091 N. Owasso Expressway, Owasso, OK 74055. (918)272-2622 fax: (918)272-2633

addendum number: **ONE (1)**

date: 03.02.2026

project: Owasso Public Schools
Owasso 8th Grade Addition
Owasso, OK

project number: 2407

architect: The Stacy Group
8091 N Owasso Expressway
Owasso, OK 74055
(918) 272-2622
f (918) 272-2633

To: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated **November 25, 2025**, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

Clarifications:

Pre-Qualifications:

A1-1 **Section 079500 Expansion Control**: Manufacturer listed below is approved in name only and must still meet all requirements as listed in the specification in order to bid and supply products for this project specifications:
Erie Metal Specialties, Inc.

A1-2 **Section 107060 Premanufactured Canopies**: Manufacturer listed below is approved in name only and must still meet all requirements as listed in the specification in order to bid and supply products for this project specifications:
Archetype Canopies

Specifications:

A1-3 Section 075200 Modified Bituminous Membrane Roofing:
-Add Section 2.3-A
-Add Section 2.3-H Replace specification in its entirety

A1-4 Section 099123 Interior Painting:
-Remove Section 3.6 - G Replace specification in its entirety

Drawings:
General:

A1-5 Sheet G100 Code Sheet: Add Code Study. Reissue sheet in its entirety.

Civil:
A1-6 Sheet C300 Overall Grading Plan: Grades revised around the rotated trash enclosure area.

A1-7 Sheet C303 Revised Detention Area & Compensatory Storage: Sheet number changed from C302 to C303

A1-8 Sheet C400 Overall Site Plan:

- Remove all bollards along fire lane on the South portion of the new addition.
- Rotated trash enclosure area to face directly east.

A1-9 Sheet C602 Fire Department Plan: Sheet number changed from C601 to C602

Architectural:

A1-10 Sheet A100 Overall Floor Plan: Add note clarifying extents of security film.

A1-11 Sheet A103 Floor Plan Area 3 – Reference: Add note clarifying extents of security film.

Interiors:

A1-12 Sheet AI113 Floor Pattern Plan Area 3 Base Bid: Revised floor finish to LVT in designated rooms. Replace sheet in its entirety.

Structural: None

Mechanical: None

Plumbing: None

Electrical:

A1-13 Sheet E001 Electrical Cover Sheet: Modify Low Voltage Scope for Contractor to provide Cat 6E cabling.

END OF ADDENDUM

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Cold Applied 2-Ply Asphalt Roofing (StressPly). (2.2.) (3.4)

B. Accessories. (2.12)

C. Edge Treatment and Roof Penetration Flashings. (2.13) (3.9)

1.2 RELATED SECTIONS

A. Section 05 31 00 – Steel Decking.

B. Section 06 10 00 - Rough Carpentry.

C. Section 07 62 00 - Sheet Metal Flashing and Trim.

D. Section 07 72 00 – Roof Accessories.

1.3 REFERENCES

A. ASTM C 920 - Standard Specification for Elastomeric Joint Sealants.

B. ASTM D 41 - Standard Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing.

C. ASTM D 312 - Standard Specification for Asphalt used in Roofing.

D. ASTM D 412 - Tensile Test on Rubber and Elastomers.

E. ASTM D 1863 Standard Specification for Mineral Aggregate Used as a Protective Coating for Roofing.

F. ASTM D 2178 Standard Specification for Asphalt Glass Felt Used in Roofing and Waterproofing.

G. ASTM D 3019 - Standard Specification for Lap Cement Used with Asphalt Roll Roofing, Non-Fibered, and Fibered.

H. ASTM D 4586 Standard Specification for Asphalt Roof Cement, Asbestos-Free.

I. ASTM D 4601 Standard Specification for Asphalt Coated Glass Fiber Base Sheet Used in Roofing.

J. ASTM D 5147 Standard Test Method for Sampling and Testing Modified Bituminous Sheet Materials.

K. ASTM D 6162 Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements.

L. ASTM D 6163 Standard Specification for Styrene Butadiene Styrene (SBS) Modified

Bituminous Sheet Materials Using Glass Fiber Reinforcements.

M. ASTM D 6164 - Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Polyester Reinforcements.

N. ASTM E 108 - Standard Test Methods for Fire Test of Roof Coverings

O. National Roofing Contractors Association (NRCA): Roofing and Waterproofing Manual.

P. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) - Architectural Sheet Metal Manual.

Q. Underwriters Laboratories, Inc. (UL): Fire Hazard Classifications.

R. Intertek/Warnock Hersey (WH): Fire Hazard Classifications.

S. ANSI-SPRI ES-1 Wind Design Standard for Edge Systems used with Low Slope Roofing Systems.

T. ASCE 7, Minimum Design Loads for Buildings and Other Structures

U. UL - Fire Resistance Directory.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

A. Perform work in accordance with all federal, state and local codes.

B. Exterior Fire Test Exposure: Roof system shall achieve a UL, or WH Class rating for roof slopes indicated on the Drawings as follows:
Underwriters Laboratory Class A Rating.

C. Design Requirements:
Uniform Wind Uplift Load Capacity
a. Installed roof system shall withstand negative (uplift) design wind loading pressures complying with the following criteria.
1) Design Code: ASCE 7, Method 2 for Components and Cladding.
2) Importance Category:
a) IV
3) Importance Factor of:
a) 1.15
4) Wind Speed: 120 mph
5) Exposure Category:
a) C.
6) Design Roof Height: 124 feet.
7) Minimum Building Width: 300feet.
8) Roof Pitch: .25 :12.
9) Roof Area Design Uplift Pressure:
a) Zone 1 - Field of roof 48 psf
b) Zone 2 - Eaves, ridges, hips and rakes 70.2psf
c) Zone 3 - Corners 92.3 psf
Snow Load: Per documents
Live Load: Not to exceed original building design.
Dead Load:
b. Installation of new roofing materials shall not exceed the dead load capacity of the existing roof structure.

1.5 SUBMITTALS

A. Submit under provisions of Section 01 30 00.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
Preparation instructions and recommendations.
Storage and handling requirements and recommendations.
Installation instructions.

C. Shop Drawings: Submit shop drawings including installation details of roofing, flashing, fastening, insulation and vapor retarder, including notation of roof slopes and fastening patterns of insulation and base modified bitumen membrane, prior to job start.

D. Design Pressure Calculations: Submit design pressure calculations for the roof area in accordance with ASCE 7 and local Building Code requirements. Include a roof system attachment analysis report, certifying the system's compliance with applicable wind load requirements before Work begins.

E. Verification Samples: For each modified bituminous membrane ply product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

F. Test Reports: Submit test reports, prepared by an independent testing agency, for all modified bituminous sheet roofing, indicating compliance with ASTM D5147. Testing must be performed at 73 deg. F. Tests at 0 deg. F will not be considered.

G. Manufacturer's Fire Compliance Certificate: Certify that the roof system furnished is Underwriters Laboratories (UL), Warnock Hersey (WH) or approved third party testing facility in accordance with ASTM E108, Class A for external fire and meets local or nationally recognized building codes.

H. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic inspection and maintenance of all completed roofing work. Provide product warranty executed by the manufacturer. Assist Owner in preparation and submittal of roof installation acceptance certification as may be necessary in connection with fire and extended coverage insurance on roofing and associated work.

1.6 QUALITY ASSURANCE

A. Perform Work in accordance with NRCA Roofing and Waterproofing Manual.

B. Manufacturer Qualifications: Company specializing in manufacturing products specified with documented ISO 9001 certification and minimum of twelve years of documented experience and must not have been in Chapter 11 bankruptcy during the last five years.

C. Installer Qualifications: Company specializing in performing Work of this section with minimum five years documented experience and a certified Pre-Approved Garland Contractor.

D. Installer's Field Supervision: Maintain a full-time Supervisor/Foreman on job site during all phases of roofing work while roofing work is in progress. Supervisor/Foreman will send daily progress reports to manufacturers representative, Drew Bodden 918-360-3581, dbodden@garlandco.com

E. Manufacturer's Field Supervision: A representative of the roof system manufacturer must be present at minimum 3 days per week during the roof system installation.

F. Product Certification: Provide manufacturer's certification that materials are manufactured in the United States and conform to requirements specified herein, are chemically and

physically compatible with each other, and are suitable for inclusion within the total roof system specified herein.

G. Source Limitations: Obtain all components of roof system from a single manufacturer. Secondary products that are required shall be recommended and approved in writing by the roofing system Manufacturer. Upon request of the Architect or Owner, submit Manufacturer's written approval of secondary components in list form, signed by an authorized agent of the Manufacturer.

1.7 PRE-INSTALLATION MEETINGS

A. Convene minimum two weeks prior to commencing Work of this section.

B. Review installation procedures and coordination required with related Work.

C. Inspect and make notes of job conditions prior to installation:
Record minutes of the conference and provide copies to all parties present.
Identify all outstanding issues in writing designating the responsible party for follow-up action and the timetable for completion.
Installation of roofing system shall not begin until all outstanding issues are resolved to the satisfaction of the Architect.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store products in manufacturer's unopened packaging with labels intact until ready for installation.

B. Store all roofing materials in a dry place, on pallets or raised platforms, out of direct exposure to the elements until time of application. Store materials at least 4 inches above ground level and covered with "breathable" tarpaulins.

C. Stored in accordance with the instructions of the manufacturer prior to their application or installation. Store roll goods on end on a clean flat surface. No wet or damaged materials will be used in the application.

D. Store at room temperature wherever possible, until immediately prior to installing the roll. During winter, store materials in a heated location with a 50-degree F (10 degree C) minimum temperature, removed only as needed for immediate use. Keep materials away from open flame or welding sparks.

E. Avoid stockpiling of materials on roofs without first obtaining acceptance from the Architect/Engineer.

F. Adhesive storage shall be between the range of above 50-degree F (10 degree C) and below 80-degree F (27 degree C). Area of storage shall be constructed for flammable storage.

1.9 COORDINATION

A. Coordinate Work with installing associated metal flashings as work of this section proceeds.

1.10 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.11 WARRANTY

A. Upon completion of the work, provide the Manufacturer's written and signed Warranty, warranting that, if a leak develops in the roof during the term of this warranty, due to defective material or workmanship, the manufacturer shall provide the Owner, at the Manufacturer's expense, with the labor and material necessary to return the defective area to a watertight condition, in accordance with the terms of the Manufacturer's warranty, warranty requirements and limitations.
Warranty Period: 30 years from date of acceptance (in accordance with manufacturer's applicable warranty.

B. Installer is to guarantee all work against defects in materials and workmanship for a period indicated following final acceptance of the Work.
Warranty Period:
a. 3 years from date of acceptance.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Garland Company, Inc. (The); 3800 E. 91st St., Cleveland, OH 44105. ASD. Toll Free: 800-321-9336. Phone: 216-641-7500. Fax: 216-641-0633. Web Site: www.garlandco.com.

B. Substitutions: No Substitutions Allowed to maintain existing warranty

C. The Products specified are intended and the Standard of Quality for the products required for this project. Bidder will not be allowed to change materials after the bid opening date.

2.2 COLD APPLIED 2-PLY ROOF SYSTEM - STRESSPLY

A. Nailable Base Sheet: One ply fastened to the deck per wind uplift calculations.
Garland approved generic Type II base sheet

B. Base (Ply) Sheet: One ply bonded to the prepared substrate with Interply Adhesive:
StressBase 80 Plus:

C. Modified Cap (Ply) Sheet: One ply bonded to the prepared substrate with Interply Adhesive:
StressPly FR Mineral:

D. Interply Adhesive: (1 and 2)
Weatherking:

E. Flashing Base Ply: One ply bonded to the prepared substrate with Interply Adhesive:
StressBase 80 Plus:

F. Flashing Cap (Ply) Sheet: One ply bonded to the prepared substrate with Interply Adhesive:
StressPly FR Mineral:

G. Flashing Ply Adhesive:
Flashing Bond:

2.3 ACCESSORIES:

A. Roof Insulation:

1. Use ASTM C-1289 Rigid Closed Cell Polyisocyanurate for all base and taper

insulation layers, bonded to heavy duty glass fiber mats.

2. Crickets and Saddles to have a minimum ½" p/ft slope, transition with tapered edge strip
3. Drains will have a minimum ½" p/ft slope tapered sump extending 4' out from drain center
4. Total system to have a minimum R-Value of 21 – (or higher if included in design requirements).
5. Attachment to meet FM I-90 wind uplift. 1st layer will be mechanically attached. Additional layers may be attached with insulation adhesives.
6. Crickets shall extend perpendicular from the base of the perimeter wall a maximum distance of 8'.

B. Vapor Retarder: VaporSmart SA: SBS modified, self-adhering membrane with woven polypropylene film and split release film on backside. Install one layer of the self-adhering membrane to a properly prepared, primed (as required), clean and dry substrate in accordance with manufacturer's application instructions. Shingle in direction of slope or roof to shed water on each area of roof.

1. Tensile Strength, ASTM D5147.
   a. MD 125 lbf./in (21.89 kN/m).
   b. XD 90 lbf./in. (15.76 kN/m).
2. Tear Strength, ASTM D 4073.
   a. MD 175 lbf. (778 N).
   b. XD 120 lbf. (534 N).
3. Thickness, ASTM D5147.
   a. 45 mils (1.14 mm).
4. Lap Adhesion, ASTM D1876.
   a. 20 pli.
5. Water Permeance, ASTM E 96, Method B.
   a. 0 perm (ng/Pa.s.m^2).
6. Air Permeability, ASTM E 2178.
   a. < 0.025 L/s*m^2.

C. Nails and Fasteners: Non-ferrous metal or galvanized steel, except that hard copper nails shall be used with copper; aluminum or stainless-steel nails shall be used with aluminum; and stainless-steel nails shall be used with stainless steel, Fasteners shall be self-clinching type of penetrating type as recommended by the deck manufacturer. Fasten nails and fasteners flush-driven through flat metal discs not less than 1 inch (25 mm) diameter. Omit metal discs when one-piece composite nails or fasteners with heads not less than 1 inch (25 mm) diameter are used.

D. Walkway Pads - Wise Product Group Walkway Pads: As recommended and furnished by the membrane manufacturer set in approved adhesive to control foot traffic on roof top surface and provide a durable system compliant non-slip walkway.

E. Urethane Sealant Hybrid - Tuff-Stuff MS: One-part, non-sag sealant as approved and furnished by the membrane manufacturer for moving joints.
Tensile Strength, ASTM D 412: 225 psi
Elongation, ASTM D 412: 450-550%
Hardness, Shore A ASTM C 920: 25-35
Adhesion-in-Peel, ASTM C 92: 30 pli

F. Pitch Pocket Sealer - Seal-Tite: Two part, 100% solids, self-leveling, polyurethane sealant for filling pitch pans as recommended and furnished by the membrane manufacturer.
Durometer, ASTM D 2240: 40-50 Shore
Elongation, ASTM D 412: 250%
Tensile Strength, ASTM D 412: 200 psi @ 100 mil

G. Glass Fiber Cant - Glass Cant: Continuous triangular cross Section made of inorganic fibrous glass used as a cant strip as recommended and furnished by the membrane manufacturer.

H. Rooftop Pipe Supports for gas lines and condensate drain lines

1. Use OMG PipeGuard (or approved equal) minimum size “small” for small conduit and condensate lines spaced a maximum of 5’ O.C. adhered to a modified pad which is also adhered to the deck.
2. Use MIRO Model 3-RAH (or approved equal) sized to fit all gas lines or large conduit spaced a maximum of 8’ O.C. adhered to a modified pad which is also adhered to the deck.
3. Gas lines should be raised off of the deck of the roof only as needed to allow placement of pipe supports.
4. All pipe supports should be installed at proper spacing and heights to ensure even weight distribution.
5. Roofing contractor is responsible for ensuring that all pipe supports meet these requirements.

2.4 EDGE TREATMENT AND ROOF PENETRATION FLASHINGS

A. Pre-Manufactured Edge Metal: R-Mer Force Flash-less Snap-On Fascia Cover and Splice Plate.
Zinc-coated steel, ASTM A653, coating designation G-90, in thickness of 24-gauge, 22 gauge or 20 gauge, 36" to 48" by coil length, chemically treated, commercial or lock-forming quality
Aluminum, ASTM B209, alloy 3105-H14, in thickness of .032" nom. or .040" nom. or .050" nom. or .063" nom.

B. Pre-Manufactured Coping Cap: R-Mer Edge Coping Cap Cover and Splice Plate.
Zinc-coated steel, ASTM A653, coating designation G-90, in thickness of 24-gauge, 22 gauge or 20 gauge, 36" to 48" by coil length, chemically treated, commercial or lock-forming quality.
Aluminum, ASTM B209, alloy 3105-H14, in thickness of .040" nom. or .050" nom. or .063" nom.

C. Pre-Manufactured Edge Metal: R-Mer Force Flash-less Snap-On Fascia Extruded Base Anchor and Components.
   Base Anchor: 6005A-T61 extruded aluminum.
   Compression Seal for top of anchor: TPE thermoplastic elastomer.
   Sealant for Flange: Green-Lock Sealant XL: Single-component high performance 100% solids, interior and exterior polyether joint sealant.

D. Pre-Manufactured Coping Cap: R-Mer Edge Coping Chairs.

E. Pre-Manufactured Edge Metal: R-Mer Drip Edge Fascia.
   24 and 22-gauge steel.
   .040" and .050" aluminum.

F. Pre-Manufactured Edge Metal Finishes:
   Unexposed surfaces for mill finish flashing, fascia, and coping cap, as shipped from the mill.
   Exposed surfaces for coated panels:
   a. Steel Finishes: fluorocarbon finish. Epoxy primer baked both sides, .2-.25 mils thickness as approved by finish coat manufacturer.
      Weathering finish as referred by National Coil Coaters Association (NCCA).
      Provided with the following properties.
      1) Pencil Hardness: ASTM D3363, HB-H / NCCA II-2.
      2) Bend: ASTM D-4145, O-T / NCCA II-19.
      3) Cross-Hatch Adhesion: ASTM D3359, no loss of adhesion.
      4) Gloss (60 deg. angle): ASTM D523, 25+/-5%
      5) Reverse Bend: ASTM D2794, no cracking or loss of adhesion.
      6) Nominal Thickness: ASTM D1005.
         a) Primer: 0.2 mils.
         b) Topcoat: 0.7 mils min.
         c) Clear Coat 0.3 mils.
      7) Color: Per exterior finish schedule

G. Flashing Boot - Rubbertite Flashing Boot: Neoprene pipe boot for sealing single or multiple pipe penetrations adhered in approved adhesives as recommended and furnished by the membrane manufacturer.

H. Vents and Breathers: Heavy gauge aluminum and fully insulated vent that allows moisture and air to escape but not enter the roof system as recommended and furnished by the membrane manufacturer.

I. Pitch pans, Rain Collar 24 gauge stainless or 20oz (567gram) copper. All joints should be welded/soldered watertight. See details for design.

J. Drain Flashings should be 4lb (1.8kg) sheet lead formed and rolled.

K. Plumbing stacks should be 4lb (1.8kg) sheet lead formed and rolled.

L. Liquid Flashing - Tuff-Flash Plus LO: An asphaltic-polyurethane, low odor, liquid flashing material designed for specialized details unable to be waterproofed with typical modified membrane flashings.
   Tensile Strength, ASTM D 412: 650 psi.
   Elongation, ASTM D 412: 325%
   Density @77 deg. F 8.3 lb/gal typical.

M. Fabricated Flashings: Fabricated flashings and trim are specified in Section 07 62 00 - Sheet Metal Flashing and Trim.

Fabricated flashings and trim shall conform to the detail requirements of SMACNA "Architectural Sheet Metal Manual" and/or the CDA Copper Development Association "Copper in Architecture - Handbook" as applicable.

N. Manufactured Roof Specialties: Shop fabricated copings, fascia, gravel stops, control joints, expansion joints, joint covers and related flashings and trim are specified in Section 07 71 23.

Manufactured roof specialties shall conform to the detail requirements of SMACNA "Architectural Sheet Metal Manual" and/or the NRCA "Roofing and Waterproofing Manual" as applicable.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. Inspect and approve the deck condition, slopes and fastener backing if applicable, parapet walls, expansion joints, roof drains, stack vents, vent outlets, nailers and surfaces and elements.

C. Verify that work penetrating the roof deck, or which may otherwise affect the roofing, has been properly completed.

D. If substrate preparation and other conditions are the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. General: Clean surfaces thoroughly prior to installation.

Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
Fill substrate surface voids that are greater than 1/4 inch wide with an acceptable fill material.
Roof surface to receive roofing system shall be smooth, clean, free from loose gravel, dirt and debris, dry and structurally sound.
Wherever necessary, all surfaces to receive roofing materials shall be power broom and vacuumed to remove debris and loose matter prior to starting work.
Do not apply roofing during inclement weather. Do not apply roofing membrane to damp, frozen, dirty, or dusty surfaces.
Fasteners and plates for fastening components mechanically to the substrate shall provide a minimum pull-out capacity of 300 lbs. (136 k) per fastener. Base or ply sheets attached with cap nails require a minimum pullout capacity of 40 lb. per nail.
Prime decks where required, in accordance with requirements and recommendations of the primer and deck manufacturer.

B. Metal Deck: Metal deck shall be installed as specified in Section

1. Fastening of the deck should comply with the anticipated live and dead loads pertaining to the building as well as applicable Code.
2. Steel decks shall be minimum 22-gauge factory galvanized or zinc alloy coated for protection against corrosion.
3. Suitable insulation shall be mechanically attached as recommended by the insulation manufacturer.
4. Decks shall comply with the gauge and span requirements in the current Factory Mutual FM Approval Guide and be installed in accordance with Loss Prevention Data Sheet 1-28 or specific FM approval.

5. When re-roofing over steel decks, surface corrosion shall be removed, and repairs to severely corroded areas made. Loose or inadequately secured decking shall be fastened, and irreparable or otherwise defective decking shall be replaced.

C. Lightweight Insulating Concrete Deck:
1. Lightweight insulating concrete decks are required to have a minimum thickness of 2 inches (51 mm), a minimum compressive strength of 125 psi (0.86 MPa) and a minimum density of 22 pcf (352 kg/sm).
2. Install roof system immediately following deck curing to prevent damage from exposure to precipitation. The deck manufacturer determines the minimum curing time and maximum exposure limitations.
3. LWIC shall not be poured during rainy periods. Deck areas that have frozen before they have cured shall be removed and replaced. Decks which receive precipitation prior to installation of the roof membrane shall be checked for moisture content and dryness.
4. Lightweight insulating concrete decks are acceptable only on slopes up to 1 inch per foot (83 mm/m).
5. Do not attach insulation directly to lightweight concrete decks. Over old, dry decks, additional board insulation may be solidly mopped to an approved mechanically attached anchor sheet (base sheet).

3.3 INSTALLATION - GENERAL

A. Install modified bitumen membranes and flashings in accordance with manufacturer's instructions and with the recommendations provided by the National Roofing Contractors Association's Roofing & Waterproofing Manual, the Asphalt Roofing Manufacturers Association, and applicable codes.

B. General: Avoid installation of modified bitumen membranes at temperatures lower than 40-45 degrees F. When work at such temperatures unavoidable use the following precautions:
Take extra care during cold weather installation and when ambient temperatures are affected by wind or humidity, to ensure adequate bonding is achieved between the surfaces to be joined. Use extra care at material seam welds and where adhesion of the applied product to the appropriately prepared substrate as the substrate can be affected by such temperature constraints as well.
Unrolling of cold materials, under low ambient conditions must be avoided to prevent the likelihood of unnecessary stress cracking. Rolls must be at least 40 degrees F at the time of application. If the membrane roll becomes stiff or difficult to install, it must be replaced with roll from a heated storage area.

C. Commence installation of the roofing system at the lowest point of the roof (or roof area), working up the slope toward the highest point. Lap sheets shingle fashion so as to constantly shed water

D. All slopes greater than 2:12 require back-nailing to prevent slippage of the ply sheets. Use ring or spiral-shank 1 inch cap nails, or screws and plates at a rate of 1 fastener per ply (including the membrane) at each insulation stop. Place insulation stops at 16 ft o.c. for slopes less than 3:12 and 4 feet o.c. for slopes greater than 3:12. On non-insulated systems, nail each ply directly into the deck at the rate specified above. When slope exceeds 2:12, install all plies parallel to the slope (strapping) to facilitate backnailing. Install 4 additional fasteners at the upper edge of the membrane when strapping the plies.

3.4 INSTALLATION COLD APPLIED ROOF SYSTEM

A. Base Ply: Cut base ply sheets into 18-foot lengths and allow plies to relax before installing. Install base sheet in interply adhesive applied at the rate required by the manufacturer. Shingle base sheets uniformly to achieve one ply throughout over the prepared substrate.

Shingle in proper direction to shed water on each large area of roofing.

Lap ply sheet ends 8 inches. Stagger end laps 12 inches minimum.

Solidly bond to the substrate and adjacent ply with specified cold adhesive at the rate of 2 to 2-1/2 gallons per 100 square feet.

Cold applied adhesive must be staged out in grid pattern per manufacturers coverage rate prior to laying of base sheet.

Roll must push a puddle of adhesive in front of it with adhesive slightly visible at all side laps. Use care to eliminate air entrapment under the membrane.

Install subsequent rolls of modified across the roof as above with a minimum of 4-inch side laps and 8-inch staggered end laps. Lay modified membrane in the same direction as the underlayers but the laps shall not coincide with the laps of the base layers.

Extend plies 2 inches beyond top edges of cants at wall and projection bases.

Install base flashing ply to all perimeter and projection details.

Allow the one ply of base sheet to cure at least 30 minutes before installing the modified membrane. **However, the modified membrane must be installed the same day as the base plies. Phasing of base ply will not be accepted.**

B. Modified Cap Ply(s): Cut cap ply sheets into 18-foot lengths and allow plies to relax before installing. Install in interply adhesive applied at the rate required by the manufacturer. Shingle sheets uniformly over the prepared substrate to achieve the number of plies specified. Shingle in proper direction to shed water on each large area of roofing.

Lap ply sheet ends 8 inches. Stagger end laps 12 inches minimum.

Solidly bond to the base layers with specified cold adhesive at the rate of 2 to 2-1/2 gallons per 100 square feet.

Cold applied adhesive must be staged out in grid pattern per manufacturers coverage rate prior to laying of base sheet.

Roll must push a puddle of adhesive in front of it with adhesive slightly visible at all side laps. Care should be taken to eliminate air entrapment under the membrane.

Install subsequent rolls of modified across the roof as above with a minimum of 4-inch side laps and 8-inch staggered end laps. Lay modified membrane in the same direction as the underlayers but the laps shall not coincide with the laps of the base layers.

Extend membrane 2 inches beyond top edge of all cants in full mopping's of the cold adhesive as shown on the Drawings.

C. Fibrous Cant Strips: Provide non-combustible perlite or glass fiber cant strips at all wall/curb detail treatments where angle changes are greater than 45 degrees. Cant may be set in approved cold adhesives, hot asphalt or mechanically attached with approved plates and fasteners.

D. Wood Blocking, Nailers and Cant Strips: Provide wood blocking, nailers and cant strips as specified in Section 06 11 00.

Provide nailers at all roof perimeters and penetrations for fastening membrane flashings and sheet metal components.

Wood nailers should match the height of any insulation, providing a smooth and even transition between flashing and insulation areas.

Nailer lengths should be spaced with a minimum 1/8-inch gap for expansion and contraction between each length or change of direction.

Nailers and flashings should be fastened in accordance with Factory Mutual "Loss Prevention Data Sheet 1- 49, Perimeter Flashing" and be designed to be capable of resisting a minimum force of 200 lbs/lineal foot in any direction.

E. Metal Work: Provide metal flashings, counter flashings, parapet coping caps and thru-wall flashings as specified in Section 07 62 00 or Section 07 71 23. Install in accordance with the SMACNA "Architectural Sheet Metal Manual" or the NRCA Roofing Waterproofing manual.

F. Termination Bar: Provide a metal termination bar or approved top edge securement at the terminus of all flashing sheets at walls and curbs. Fasten the bar a minimum of 8 inches (203 mm) o.c. to achieve constant compression. Provide suitable sealant at the top edge if required.

G. Flashing Base Ply: Install flashing sheets by the same application method used for the base ply.

Seal curb, wall, and parapet flashings with an application of mastic and mesh on a daily basis. Do not permit conditions to exist that will allow moisture to enter behind, around or under the roof or flashing membrane.
Prepare all walls, penetrations, expansion joints and where shown on the Drawings to be flashed with required primer at the rate of 100 square feet per gallon. Allow primer to dry tack free.
Adhere to the underlying base ply with specified flashing ply adhesive unless otherwise specified. Nail off at a minimum of 8 inches (203 mm) o.c. from the finished roof at all vertical surfaces.
Solidly adhere the entire flashing ply to the substrate. Secure the tops of all flashings that are not run up and over curb through termination bar fastened at 6 inches (152 mm) o.c. and sealed at top.
Coordinate counter flashing, cap flashings, expansion joints and similar work with modified bitumen roofing work as specified.
Coordinate roof accessories, miscellaneous sheet metal accessory items, including piping vents and other devices with the roofing system work.
Secure the top edge of the flashing sheet using a termination bar only when the wall surface above is waterproofed or nailed 4 inches o.c. and covered with an acceptable counter flashing.

H. Flashing Cap Ply:

Seal curb, wall and parapet flashings with an application of mastic and mesh on a daily basis. Do not permit conditions to exist that will allow moisture to enter behind, around or under the roof or flashing membrane.
Prepare all walls, penetrations, expansion joints and where shown on the Drawings to be flashed with required primer at the rate of 100 square feet per gallon. Allow primer to dry tack free.
Adhere to the underlying base flashing ply with specified flashing ply adhesive unless otherwise specified. Nail off at a minimum of 8 inches (203 mm) o.c. from the finished roof at all vertical surfaces.
Coordinate counter flashing, cap flashings, expansion joints and similar work with modified bitumen roofing work as specified.
Coordinate roof accessories, miscellaneous sheet metal accessory items with the roofing system work.
All stripping shall be installed prior to flashing cap sheet installation.
Heat and scrape granules when welding or adhering at cut areas and seams to granular surfaces at all flashings.
Secure the top edge of the flashing sheet using a termination bar only when the wall surface above is waterproofed or nailed 4 inches o.c. and covered with an acceptable counter flashing.
Seal all vertical laps of cap flashing ply with a three-course application of trowel-grade mastic and fiberglass mesh.

I. Roof Walkways: Provide walkways in areas indicated on the Drawings.

3.5 INSTALLATION EDGE TREATMENT AND ROOF PENETRATION FLASHING

A. Scupper Through Wall:

Inspect the nailer to ensure proper attachment and configuration.

Run one ply over nailer, into scupper hole and up flashing as in typical wall flashing detail. Assure coverage of all wood nailers.
Install a scupper box in a 1/4-inch (6 mm) bed of mastic. Assure all box seams are soldered and have a minimum 4-inch (101 mm) flange. Make sure all corners are closed and soldered. Prime scupper at a rate of 100 square feet per gallon and allow to dry.
Fasten flange of scupper box every 3 inches (76 mm) o.c. staggered.
Strip in flange of scupper box with base flashing ply covering entire area with 6 inch (152 mm) overlap on to the field of the roof and wall flashing.
Install a second ply of modified flashing ply in bitumen over the base flashing ply, 9 inches (228 mm) on to the field of the roof. Apply a three-course application of mastic and mesh at all seams.

B. Scupper Through Wall (Overflow):

Inspect the nailer to ensure proper attachment and configuration.
Run one ply over nailer up the overflow, into the scupper hole and up flashing as in typical wall flashing detail. Assure coverage of all wood nailers.
Install scupper box in a 1/4-inch (6 mm) bed of mastic. Assure all box seams are soldered and have a minimum 4-inch (101 mm) flange. Make sure all corners are closed and soldered. Prime scupper at a rate of 100 square feet per gallon and allow to dry.
Fasten flange of scupper box every 3 inches (76 mm) o.c. staggered.
Strip in flange scupper box with base flashing ply covering entire area with 6 inch (152 mm) overlap on to the field of the roof and wall flashing.
Install a second ply of modified flashing ply in bitumen over the base flashing ply, 9 inches (228 mm) on to the field of the roof. Apply a three-course application of mastic and mesh at all seams.

C. Coping Cap:

Minimum flashing height is 8 inches (203 mm) above finished roof height. Maximum flashing height is 24 inches (609 mm). Prime vertical wall at a rate of 100 square feet per gallon and allow to dry.
Set cant in bitumen. Run all field plies over cant a minimum of 2 inches (50 mm).
Attach tapered board to top of wall.
Install base flashing ply covering entire wall and wrapped over top of wall and down face with 6 inches (152 mm) on to field of roof and set in cold asphalt. Nail membrane at 8 inches (203 mm) o.c.
Install a second ply of modified flashing ply in bitumen over the base flashing ply, 9 inches (228 mm) on to the field of the roof. Apply a three-course application of mastic and mesh at all seams and allow to cure and aluminize.
Install continuous cleat and fasten at 6 inches (152 mm) o.c. to outside wall.
Install new metal coping cap hooked to continuous cleat.
Fasten inside cap 24 inches (609 mm) o.c. with approved fasteners and neoprene washers through slotted holes, which allow for expansion and contraction.

D. Expansion Joint:

Minimum curb height is 8 inches (203 mm) above finished roof height. Chamfer top of curb. Prime vertical curb at a rate of 100 square feet per gallon and allow to dry.
Mechanically attach wood cant to expansion joint nailers. Run all field plies over cant a minimum of 2 inches (50 mm).
Install compressible insulation in neoprene cradle.
Install base flashing ply covering curb set in bitumen with 6 inches (152 mm) on to field of the roof.
Install a second ply of modified flashing ply in bitumen over the base flashing ply, 9 inches (228 mm) on to the field of the roof. Attach top of membrane to top of curb and

nail at 8 inches (203 mm) o.c. Apply a three-course application of mastic and mesh at all vertical seams and allow to cure and aluminize.
Install pre-manufactured expansion joint cover. Fasten sides at 12 inches (609 mm) o.c. with fasteners and neoprene washers. Furnish all joint cover laps with butyl tape between metal covers.

E. Curb Detail/Air Handling Station:
Minimum curb height is 8 inches (203 mm) above finished roof height. Prime vertical at a rate of 100 square feet per gallon and allow to dry.
Set cant in bitumen. Run all field plies over cant a minimum of 2 inches (50 mm).
Install base flashing ply covering curb set in bitumen with 6 inches (152 mm) on to field of the roof.
Install a second ply of modified flashing ply in bitumen over the base flashing ply, 9 inches (228 mm) on to the field of the roof. Apply a three-course application of mastic and mesh at all vertical seams and allow to cure and aluminize.
Install pre-manufactured counterflashing with fasteners and neoprene washers or per manufacturer's recommendations.
Set equipment on neoprene pad and fasten as required by equipment manufacturer.

F. Roof Drain:
Plug drain to prevent debris from entering plumbing.
Taper insulation to drain minimum of 24 inches (609 mm) from center of drain.
Run roof system plies over drain. Cut out plies inside drain bowl.
Set lead/copper flashing (30-inch square minimum) in 1/4-inch bed of mastic. Run lead/copper into drain a minimum of 2 inches (50 mm). Prime lead/copper at a rate of 100 square feet per gallon and allow to dry.
Install base flashing ply (40-inch square minimum) in bitumen.
Install modified membrane (48-inch square minimum) in bitumen.
Install clamping ring and assure that all plies are under the clamping ring.
Remove drain plug and install strainer.

G. Plumbing Stack:
Minimum stack height is 12 inches (609 mm).
Run roof system over the entire surface of the roof. Seal the base of the stack with elastomeric sealant.
Prime flange of new sleeve. Install properly sized sleeves set in 1/4-inch (6 mm) bed of roof cement.
Install base flashing ply in bitumen.
Install membrane in bitumen.
Caulk the intersection of the membrane with elastomeric sealant.
Turn sleeve a minimum of 1 inch (25 mm) down inside of stack.

H. Pitch Pocket:
Run all plies up to the penetration.
Place the pitch pocket over the penetration and prime all flanges.
Strip in flange of pitch pocket with one ply of base flashing ply. Extend 6 inches (152 mm) onto field of roof.
Install second layer of modified membrane extending 9 inches (228 mm) onto field of the roof.
Fill pitch pocket half full with non-shrink grout. Let this cure and top off with pourable sealant.
Caulk joint between roof system and pitch pocket with roof cement.

3.6 CLEANING

A. Clean-up and remove daily from the site all wrappings, empty containers, paper, loose

particles and other debris resulting from these operations.

B. Remove asphalt markings from finished surfaces.

C. Repair or replace defaced or disfigured finishes caused by Work of this section.

3.7 PROTECTION

A. Provide traffic ways, erect barriers, fences, guards, rails, enclosures, chutes, and the like to protect personnel, roofs and structures, vehicles and utilities.

B. Protect exposed surfaces of finished walls with tarps to prevent damage.

C. Plywood for traffic ways required for material movement over existing roofs shall be not less than 5/8 inch (16 mm) thick.

D. In addition to the plywood listed above, an underlayment of minimum 1/2 inch (13 mm) recover board is required on new roofing.

E. Special permission shall be obtained from the Manufacturer before any traffic shall be permitted over new roofing.

3.8 FIELD QUALITY CONTROL

A. Inspection: Provide manufacturer's field observations at start-up and at intervals of approximately 30 percent, 60 percent, and 90 percent completion. Provide a final inspection upon completion of the Work.

Warranty shall be issued upon manufacturer's acceptance of the installation.
Field observations shall be performed by a Sales Representative employed full-time by the manufacturer and whose primary job description is to assist, inspect and approve membrane installations for the manufacturer.
Provide observation reports from the Sales Representative indicating procedures followed, weather conditions and any discrepancies found during inspection.
Provide a final report from the Sales Representative, certifying that the roofing system has been satisfactorily installed according to the project specifications, approved details and good general roofing practice.

3.9 SCHEDULES

A. Base (Ply) Sheet:

StressBase 80 Plus: 80 mil SBS (Styrene-Butadiene-Styrene) rubber modified roofing base sheet reinforced with a fiberglass scrim. ASTM D 6163, Type I.

a. Tensile Strength, ASTM D 6163
   1) 0.08 in/min. @ 0 +/-3.6 deg. F MD 140 lbf/in XD 100 lbf/in
   2) 2 mm/min. @ -18 +/- -3 deg. C MD 24.5 kN/m XD 17.5 kN/m
b. Tear Strength, ASTM D 6163
   1) 0.08 in/min. @ 0 +/- 3.6 deg. F MD 130 lbf XD 100 lbf
   2) 2 mm/min. @ -18 +/- 3 deg. C MD 578 N XD 444 N
c. Elongation at Maximum Tensile, ASTM D 6163
   1) 0.08 in/min. @ 0 +/- 3.6 deg. F MD 4 % XD 4 %
   2) 2 mm/min. @ -18 +/- 3 deg. C MD 4 % XD 4 %
d. Low Temperature Flexibility, ASTM D 6163, Passes -40 deg. F (-40 deg. C)

B. Modified Cap (Ply) Sheet:

StressPly FR Mineral: 145 mil SBS (Styrene-Butadiene-Styrene) mineral surfaced, rubber modified roofing membrane with fire retardant characteristics, and dual fiberglass reinforced scrim. ASTM D 6163, Type III Grade G

a. Tensile Strength, ASTM D 5147
   1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 225 lbf/in XD 225 lbf/in
   2) 50 mm/min. @ 23 +/- 2 deg. C MD 39.0 kN/m XD 39.0 kN/m
b. Tear Strength, ASTM D 5147
   1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 300 lbf XD 300 lbf
   2) (50 mm/min. @ 23 +/- 2 deg. C MD 1335 N XD 1335 N
c. Elongation at Maximum Tensile, ASTM D 5147
   1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 6% XD 8%
   2) 50 mm/min. @ 23 +/- 2 deg. C MD 6% XD 8%
d. Low Temperature Flexibility, ASTM D 5147, Passes -15 deg. F (-26 deg. C)

C. Interply Adhesive:
Weatherking: Rubberized, polymer modified cold process asphalt roofing bitumen V.O.C. compliant ASTM D 3019. Performance Requirements:
a. Non-Volatile Content ASTM D 4479 78%
b. Density ASTM D1475 8.9 lbs./gal.
c. Viscosity Stormer ASTM D562 400-500 grams
d. Flash Point ASTM D 93 100 deg. F min. (37 deg. C)
e. Slope: up to 3:12

D. Flashing Base Ply:
StressBase 80 Plus: 80 mil SBS (Styrene-Butadiene-Styrene) rubber modified roofing base sheet reinforced with a fiberglass scrim ASTM D 6163, Type I.
a. Tensile Strength, ASTM D 5147
   1) 0.08 in/min. @ 0 +/-3.6 deg. F MD 140 lbf/in XD 100 lbf/in
   2) 2 mm/min. @ -18 +/- -3 deg. C MD 24.5 kN/m XD 17.5 kN/m
b. Tear Strength, ASTM D 5147
   1) 0.08 in/min. @ 0 +/- 3.6 deg. F MD 130 lbf XD 100 lbf
   2) 2 mm/min. @ -18 +/- 3 deg. C MD 578 N XD 444 N
c. Elongation at Maximum Tensile, ASTM D 5147
   1) 0.08 in/min. @ 0 +/- 3.6 deg. F MD 4 % XD 4 %
   2) 2 mm/min. @ -18 +/- 3 deg. C MD 4 % XD 4 %
d. Low Temperature Flexibility, ASTM D 6163, Passes -40 deg. F (-40 deg. C)

E. Flashing Cap (Ply) Sheet:
StressPly FR Mineral: 145 mil SBS (Styrene-Butadiene-Styrene) mineral surfaced, rubber modified roofing membrane with fire retardant characteristics, and dual fiberglass reinforced scrim. ASTM D 6163, Type III Grade G
a. Tensile Strength, ASTM D 5147
   1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 225 lbf/in XD 225 lbf/in
   2) 50 mm/min. @ 23 +/- 2 deg. C MD 39.0 kN/m XD 39.0 kN/m
b. Tear Strength, ASTM D 5147
   1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 300 lbf XD 300 lbf
   2) (50 mm/min. @ 23 +/- 2 deg. C MD 1335 N XD 1335 N
c. Elongation at Maximum Tensile, ASTM D 5147
   1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 6% XD 8%
   2) 50 mm/min. @ 23 +/- 2 deg. C MD 6% XD 8%
d. Low Temperature Flexibility, ASTM D 5147, Passes -15 deg. F (-26 deg. C)

F. Flashing Ply Adhesive:
Flashing Bond: Asphalt roofing mastic V.O.C. compliant, ASTM D 4586, Type II trowel grade flashing adhesive.
a. Non-Volatile Content ASTM D 4479 70% min.
b. Density ASTM D 1475 8.3 lbs./gal. (1kg/l)
c. Flash Point ASTM D 93 103 deg. F (39 deg. C)

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes surface preparation and the application of paint systems on the following interior substrates:

1. Concrete masonry units (CMU).
2. Exposed steel structure.
3. Steel.
4. Metal (Doors, Frames & Handrails).
5. Gypsum board.

B. Related Sections include the following:

1. Division 05 Sections for shop priming of metal substrates with primers specified in this Section.
2. Division 06 Sections for shop priming carpentry with primers specified in this Section.
3. Division 08 Sections for factory priming windows and doors with primers specified in this Section.
4. Division 09 Section "Exterior Painting" for surface preparation and the application of paint systems on exterior substrates.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Samples for Initial Selection: For each type of topcoat product indicated.

C. Samples for Verification: For each type of paint system and in each color and gloss of topcoat indicated.

1. Submit Samples on rigid backing, 8 inches (200 mm) square.
2. Step coats on Samples to show each coat required for system.
3. Label each coat of each Sample.
4. Label each Sample for location and application area.

D. Product List: For each product indicated, include the following:

1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
2. Printout of current "MPI Approved Products List" for each product category specified in Part 2, with the proposed product highlighted.

E. VOC Product Certification: For each product indicated provide certification from manufacturer indicating products supplied comply with local regulations controlling the use of volatile organic compounds (VOC's).

1.4 QUALITY ASSURANCE

A. MPI Standards:

1. Products: Complying with MPI standards indicated and listed in "MPI Approved Products List."
2. Preparation and Workmanship: Comply with requirements in "MPI Architectural Painting Specification Manual" for products and paint systems indicated.

B. Mockups: Apply benchmark samples of each paint system indicated and each color and finish selected to verify preliminary selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Architect will select one surface to represent surfaces and conditions for application of each paint system specified in Part 3.

a. Wall and Ceiling Surfaces: Provide samples of at least 100 sq. ft.
b. Other Items: Architect will designate items or areas required.

2. Apply benchmark samples after permanent lighting and other environmental services have been activated.
3. Final approval of color selections will be based on benchmark samples.

a. If preliminary color selections are not approved, apply additional benchmark samples of additional colors selected by Architect at no added cost to Owner.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver material to the project site in manufacturer's original, unopened containers bearing manufacturer's name and label containing the following information:
1. Product name, color name and number.
2. Product description (generic classification).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. VOC content.

B. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

1.6 PROJECT CONDITIONS

A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.

B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

1.7 EXTRA MATERIALS

A. Furnish extra materials described below that are from same production run (batch mix) as materials applied and that are packaged for storage and identified with labels describing contents.

1. Quantity: Furnish an additional 5 percent, but not less than 1 gal. of each material and color applied.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

B. Basis of Design Product: Subject to compliance with requirements, provide Sherwin-Williams or a comparable product by one of the following:

1. Benjamin Moore & Co.
2. ICI Paints.
3. Kelly-Moore
4. Porter Paints.
5. PPG Architectural Finishes, Inc.

2.2 PAINT, GENERAL

A. Material Compatibility:

1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.

B. Colors: As indicated in Interior Finish schedule.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.

B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:

1. Concrete: 12 percent.
2. Masonry (Clay and CMU): 12 percent.
3. Gypsum Board: 12 percent.

C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.

D. Begin coating application only after unsatisfactory conditions have been corrected and surfaces are dry.

1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.

3.2 PREPARATION

A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.

B. Remove plates, machined surfaces, and similar items already in place that are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
2. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.

C. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.

1. Remove incompatible primers and reprime substrate with compatible primers as required to produce paint systems indicated.

D. Concrete Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.

E. Steel Substrates: Remove rust and loose mill scale. Clean using methods recommended in writing by paint manufacturer.

F. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal fabricated from coil stock by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.

G. Aluminum Substrates: Remove surface oxidation.

H. Gypsum Board Substrates: Do not begin paint application until finishing compound is dry and sanded smooth.

3.3 APPLICATION

A. Apply paints according to manufacturer's written instructions.

1. Use applicators and techniques suited for paint and substrate indicated.
2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.

B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.

C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.

D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

E. Painting Mechanical and Electrical Work: Paint items exposed in equipment rooms and occupied spaces including, but not limited to, the following:

1. Mechanical Work:

a. Uninsulated metal piping.
b. Uninsulated plastic piping.
c. Pipe hangers and supports.
d. Tanks that do not have factory-applied final finishes.
e. Visible portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets.
f. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.
g. Mechanical equipment that is indicated to have a factory-primed finish for field painting.

2. Electrical Work:

a. Switchgear.
b. Panelboards.
c. Electrical equipment that is indicated to have a factory-primed finish for field painting.

F. Mask off adjoining surfaces not to receive floor sealer and close off floor drains, to prevent spillage and migration of liquid materials outside membrane area.

3.4 FIELD QUALITY CONTROL

A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure at any time and as often as Owner deems necessary during the period when paints are being applied:

1. Owner will engage the services of a qualified testing agency to sample paint materials being used. Samples of material delivered to Project site will be taken, identified, sealed, and certified in presence of Contractor.
2. Testing agency will perform tests for compliance with product requirements.

3. Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying-paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

3.5 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.

D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 INTERIOR PAINTING SCHEDULE

A. Concrete Floor Substrates:

1. Clear Sealer System: Two coats of one component solvent acrylic clear concrete lacquer.

    a. First Coat: Sherwin-Williams H&C Clear 23 Sealer. Interior/exterior clear concrete floor sealer (solvent based).
    b. Topcoat: Sherwin-Williams H&C Clear 23 Sealer. Interior/exterior clear concrete floor sealer (solvent based).

B. CMU Substrates:

1. Interior Epoxy Finish: Two coats of factory-formulated single-component pre-catalyzed waterborne acrylic epoxy over a factory-formulated primer.

    a. Prime Coat: Sherwin-Williams Pro Industrial Heavy Duty Block Filler. Apply at a wet film thickness of not less than 16.0 mils.
    b. Intermediate Coat: Sherwin-Williams Pro Industrial Pre-Catalyzed Waterbased Epoxy K46-1150 Series. Apply at a wet film thickness of not less than 4.0 mils.
    c. Topcoat: Sherwin-Williams Pro Industrial Pre-Catalyzed Waterbased Epoxy K46-1150 Series FINISH: SEMI-GLOSS. Apply at a wet film thickness of not less than 4.0 mils.

C. Exposed Factory Primed Steel Structure:

    a. Base Coat: Sherwin-Williams Pro Industrial Multi-Surface Acrylic B66-1550 Semi-Gloss. Apply at a dry film thickness of not less than 4.0 mils.

b. Topcoat: Sherwin-Williams Pro Industrial Multi-Surface Acrylic B66-1550 Semi-Gloss. Apply at a dry film thickness of not less than 4.0 mils
*Use 1 coat Pro Industrial Multi-Surface Acrylic on any surface not pre-primed.

D. Steel Substrates: Provide the following finish system over interior ferrous metal. Primer not required on shop-primed material.

1. Acrylic Enamel Finish: Two coats of factory-formulated single component, waterborne acrylic, adhesion promoting coating formulated for direction application.

a. Base Coat: Sherwin-Williams Bond-Plex B71 Gloss. Apply at a wet film thickness of not less than 7.0 mils.
b. Topcoat: Sherwin-Williams Bond-Plex B71 Gloss. Apply at a wet film thickness of not less than 7.0 mils.

E. Metal Substrates (Metal doors, door and window frames):

1. Acrylic Coating Finish: Two coats of factory-formulated single component, waterborne acrylic, adhesion promoting coating formulated for direction application.

a. Base Coat: Sherwin-Williams Bond-Plex B71 Gloss. Apply at a wet film thickness of not less than 7.0 mils.
b. Topcoat: Sherwin-Williams Bond-Plex B71 Gloss. Apply at a wet film thickness of not less than 7.0 mils.

F. Gypsum Board Substrates and Ceilings:

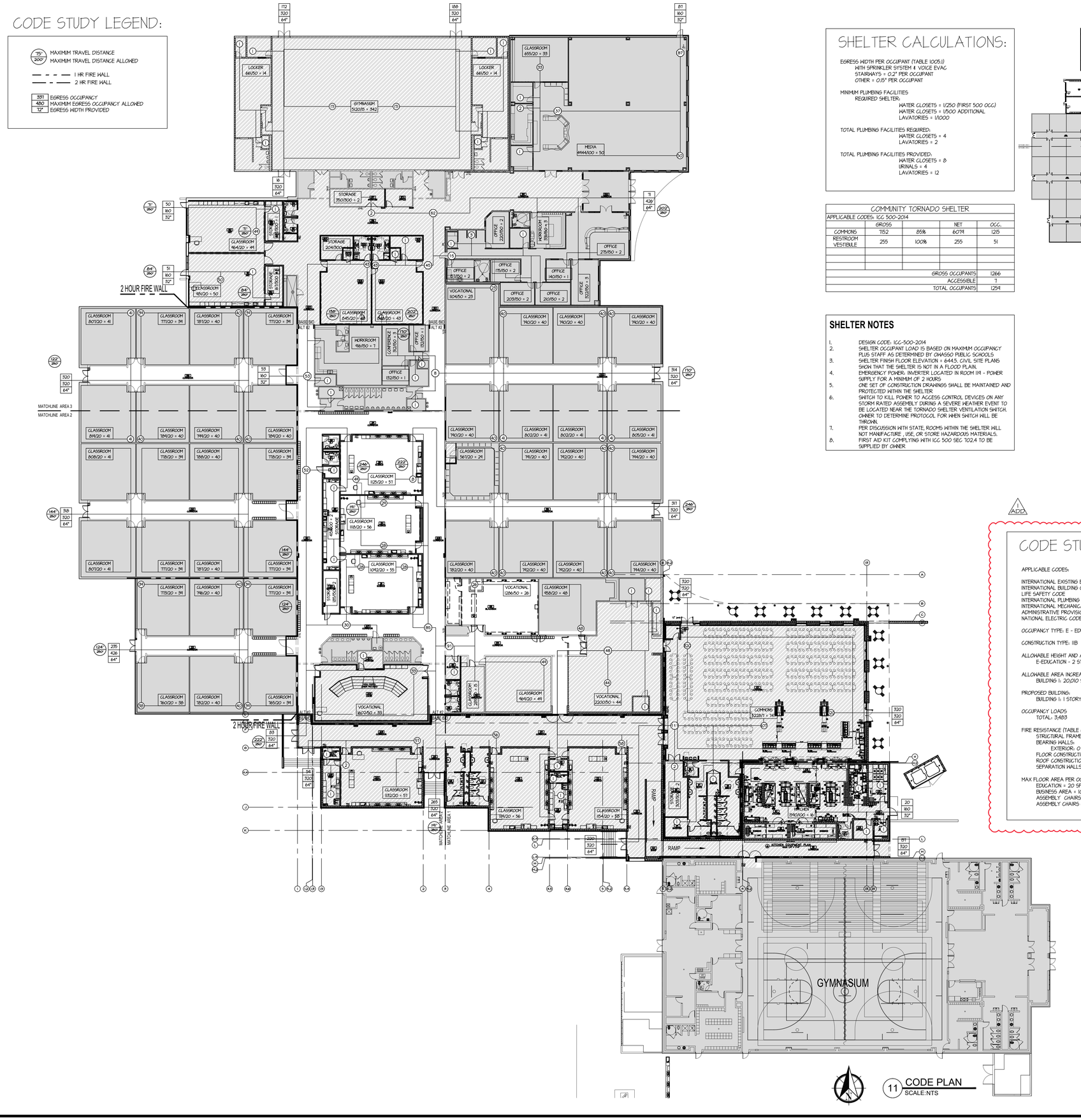
1. Interior Epoxy Finish: Two coats of factory-formulated single-component pre-catalyzed waterborne acrylic epoxy over a factory-formulated primer.

a. Prime Coat: Sherwin-Williams Multi-Purpose Interior-Exterior Latex Primer-Sealer. Apply at a wet film thickness of not less than 4.0 mils.
b. Intermediate Coat: Sherwin-Williams Pro Industrial Pre-Catalyzed Waterbased Epoxy K46-1150 Series. Apply at a wet film thickness of not less than 4.0 mils.
c. Topcoat: Sherwin-Williams Pro Industrial Pre-Catalyzed Waterbased Epoxy K46-1150 Series FINISH: EGG-SHEL. Apply at a wet film thickness of not less than 4.0 mils.

END OF SECTION

CODE STUDY LEGEND:

75' / 200'	MAXIMUM TRAVEL DISTANCE / MAXIMUM TRAVEL DISTANCE ALLOWED
— — —	1 HR FIRE WALL
—— - ——	2 HR FIRE WALL
351	EGRESS OCCUPANCY
480	MAXIMUM EGRESS OCCUPANCY ALLOWED
12"	EGRESS WIDTH PROVIDED



11 CODE PLAN
SCALE:NTS

SHELTER CALCULATIONS:

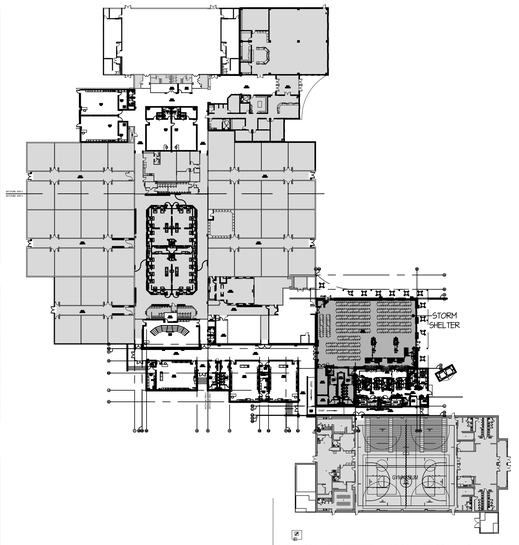
EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)
- WITH SPRINKLER SYSTEM & VOICE EVAC.
- STAIRWAYS = 0.2" PER OCCUPANT
- OTHER = 0.15" PER OCCUPANT

MINIMUM PLUMBING FACILITIES
- REQUIRED SHELTER:
  - WATER CLOSETS = 1/250 (FIRST 500 OCC)
  - WATER CLOSETS = 1/500 ADDITIONAL
  - LAVATORIES = 1/1000
- TOTAL PLUMBING FACILITIES REQUIRED:
  - WATER CLOSETS = 4
  - LAVATORIES = 2
- TOTAL PLUMBING FACILITIES PROVIDED:
  - WATER CLOSETS = 8
  - URINALS = 4
  - LAVATORIES = 12

COMMUNITY TORNADO SHELTER				
APPLICABLE CODES: ICC 500-2014				
	GROSS		NET	OCC.
COMMONS	7152	85%	6079	1215
RESTROOM VESTIBULE	255	100%	255	51
			GROSS OCCUPANTS	1266
			ACCESSIBLE	7
			TOTAL OCCUPANTS	1254

SHELTER NOTES

1. DESIGN CODE: ICC-500-2014
2. SHELTER OCCUPANT LOAD IS BASED ON MAXIMUM OCCUPANCY PLUS STAFF AS DETERMINED BY OWASSO PUBLIC SCHOOLS
3. SHELTER FINISH FLOOR ELEVATION = 644.5. CIVIL SITE PLANS SHOW THAT THE SHELTER IS NOT IN A FLOOD PLAIN.
4. EMERGENCY POWER: INVERTER LOCATED IN ROOM 119 - POWER SUPPLY FOR A MINIMUM OF 2 HOURS
5. ONE SET OF CONSTRUCTION DRAWINGS SHALL BE MAINTAINED AND PROTECTED WITHIN THE SHELTER
6. SWITCH TO KILL POWER TO ACCESS CONTROL DEVICES ON ANY STORM RATED ASSEMBLY DURING A SEVERE WEATHER EVENT TO BE LOCATED NEAR THE TORNADO SHELTER VENTILATION SWITCH. OWNER TO DETERMINE PROTOCOL FOR WHEN SWITCH WILL BE THROWN.
7. PER DISCUSSION WITH STATE, ROOMS WITHIN THE SHELTER WILL NOT MANUFACTURE , USE, OR STORE HAZARDOUS MATERIALS.
8. FIRST AID KIT COMPLYING WITH ICC 500 SEC 702.4 TO BE SUPPLIED BY OWNER



11 SHELTER LOCATION PLAN
SCALE:NTS

ADD1

CODE STUDY:

APPLICABLE CODES:

INTERNATIONAL EXISTING BUILDING CODE	2018
INTERNATIONAL BUILDING CODE	2018
LIFE SAFETY CODE	2018
INTERNATIONAL PLUMBING CODE	2018
INTERNATIONAL MECHANICAL CODE	2018
ADMINISTRATIVE PROVISIONS OF ELECTRIC CODE	2020
NATIONAL ELECTRIC CODE	2020

OCCUPANCY TYPE: E - EDUCATION

CONSTRUCTION TYPE: IIB

ALLOWABLE HEIGHT AND AREA (TABLE 503)
- E-EDUCATION - 2 STORIES AND 55'-0", 14500 SF

ALLOWABLE AREA INCREASE (EQUATION 5-1)
- BUILDING 1: 20,010 SF

PROPOSED BUILDING:
- BUILDING 1: 1 STORY @ 14'-8", 7,746 SF

OCCUPANCY LOADS
- TOTAL: 3,483

FIRE RESISTANCE (TABLE 601)
- STRUCTURAL FRAME: 0 HRS
- BEARING WALLS:
  - EXTERIOR: 0 HRS INTERIOR: 0 HRS
- FLOOR CONSTRUCTION: 0 HRS
- ROOF CONSTRUCTION: 0 HRS
- SEPARATION WALLS: E FROM E = 2 HRS

MAX FLOOR AREA PER OCCUPANT (TABLE 1003 2.2.2)
- EDUCATION = 20 SF NET
- BUSINESS AREA = 100 SF GROSS
- ASSEMBLY CHAIRS AND TABLES = 15 NET
- ASSEMBLY CHAIRS ONLY = 7 NET

EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)
- NON-SPRINKLER SYSTEM
- STAIRWAYS = 0.2" PER OCCUPANT (NOT APPLICABLE)
- OTHER = 0.15 PER OCCUPANT

BUILDING 1: EXIT WIDTH REQUIRED = 48"
EXIT WIDTH PROVIDED = 68"

EXIT ACCESS TRAVEL DISTANCE (TABLE 1004 2.4)
- FOR EDUCATION OCCUPANCY
- WITHOUT SPRINKLER SYSTEM = 200 FT

MINIMUM PLUMBING FACILITIES (TABLE 2902.1)
- REQUIRED EDUCATION:
  - WATER CLOSETS = 1/50 M/F
  - LAVATORIES = 1/50 M/F
  - DRINKING FOUNTAINS = 1/100
  - SERVICE SINK = 1

TOTAL PLUMBING FACILITIES REQUIRED:
(OCCUPANCY OF CLASSROOMS AND GYM INCLUDED)
- WATER CLOSETS = 10 (M=35 F=35)
- LAVATORIES = 10
- DRINKING FOUNTAINS = 34
- SERVICE SINK = 1

TOTAL PLUMBING FACILITIES PROVIDED:
(OCCUPANCY OF CLASSROOMS AND GYM INCLUDED)
- WATER CLOSETS = 15 (M=34 F=25 U=14)
- LAVATORIES = 63
- DRINKING FOUNTAINS = 14
- SERVICE SINK = 1

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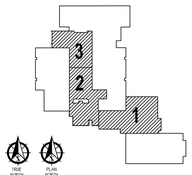
STATE OF OKLAHOMA — MICHAEL D. STACY — REG. NO. 20053 — OWASSO — 11-25-25 — OKLAHOMA — LICENSED ARCHITECT

OWASSO 8th GRADE ADDITION

OWASSO PUBLIC SCHOOLS

OWASSO, OK 2025

PROJECT



KEY PLAN

ADD1 ADDENDUM #1 03.02.2026

REVISIONS

11.25.25

ISSUE DATE

2407 | PROJECT NO
LH | DRAWN BY
MDS | CHKD BY

CODE SHEET

G100

SHEET TITLE

Last Saved By Lindsey
Save Date/Time: 12/5/2025 11:11:02 AM
Template File: 2025.01.01 Template.rvt
Document: G100 SHEET (2).dwg

LEGEND

- GRADING LIMITS
- 2.00% — SLOPE LABEL
- GRADING BREAK LINE
- ADA — ACCESSIBLE ROUTE
- 660 — PROPOSED MAJOR CONTOUR
- 661 — PROPOSED MINOR CONTOUR
- 660 — EXISTING MAJOR CONTOUR
- 661 — EXISTING MINOR CONTOUR

PROPERTY LINE

30 0 15 30
1" = 30'

EXISTING FH

TP 644.62
MATCH EX.

TP 644.76
MATCH EX.

BENCHMARK
"PK" IRON PIN
N: 473665.52
E: 2609796.271
ELEV: 643.96

HIGH POINT

CONTRACTOR TO PROVIDE POSITIVE DRAINAGE IN BOTH DIRECTIONS OF DRIVE AISLE.

CONTRACTOR TO SURVEY AREA PRIOR TO CONSTRUCTION OF THIS AREA AND CONFIRM PROPOSED GRADING PLAN IS SUFFICIENT WITH SURVEYED GRADES

CITY OF OWASSO
REGULATORY FLOODPLAIN

EXISTING BUILDING
645.50

PROPOSED BUILDING
ADDITION
645.50F.F.

EXISTING BUILDING
641.50F.F

641.50F.F.

645.50F.F.

TG 643.54
MATCH EX.

TS 645.26

TS 645.40

TR 645.00

TS 645.35

TS 645.48

TR 644.03

FG 645.00

TP 644.60

TR 644.16

TP 644.40

TP 643.85

TP 642.81

TP 642.57

TP 642.64

TR 641.50

TP 642.25

TP 642.40

TS 641.99

TS 641.79

TP 645.04

TP 645.27

TP 644.91

TP 645.11

TP 645.33

TW 649.50
GL 645.50
FL 641.18
TP 641.25
TP 641.40

TS 641.19
MATCH EX.

TS 641.00
MATCH EX.

RE: C301 FDR
RETAINING WALL
GRADING

TS 641.48

TS 641.25

TS 641.33

TS 641.48

TW 645.35
EG/BW 644.98
BW 642.45

TP 643.02
TP 641.79

BW 642.11
SSL
TS 641.49

TS 641.49

TS 641.25

TS 641.25
TS 641.00

TS 645.45
TS 641.37

TS 641.08

TS 641.20

TS 641.31

TS 645.40

TP 640.40

TP 640.00

TP 640.15

TP 640.98

TP 640.74

TP 640.86

TP 640.85

TP 641.02

TP 640.53

TP 640.53

TP 639.75

TP 640.13

TP 640.27

TP 639.85

BENCHMARK
"PK" IRON PIN
N: 473380.442
E: 2610174.993
ELEV: 640.80

TP 640.89
MATCH EX.

TP 640.80
MATCH EX.

TP 641.39
MATCH EX.

TS 641.20

TS 641.48

WSL

SSL

SD

FW

BENCHMARK
"PK" IRON PIN
N: 473605.781
E: 2610498.691
ELEV: 642.74

PROPERTY LINE

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT CITY OF OWASSO STANDARDS AND SPECIFICATIONS (INCLUDING O.D.O.T. 2019 EDITION)

BEFORE YOU DIG
1-800-522-OKIE
CALL OKIE

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oklahoma ca #1460
expires 6/30/2027

OWASSO 8th GRADE ADDITION

OWASSO PUBLIC SCHOOLS

OWASSO, OK 2025
PROJECT

KEY PLAN

CITY SUBMITTAL	11.25.2025
CITY RESUBMITTAL	02.12.2026
⚠1 ADDENDUM #1	03.02.2026

REVISIONS

11.25.2025
ISSUE DATE

2440383.01	PROJECT NO
LM	DRAWN BY
ANW	CHK'D BY

OVERALL GRADING PLAN

C300
SHEET TITLE

COMPENSATORY STORAGE VOLUME ANALYSIS

NET 2D AREA:	34,422.42 SF
CUT W/ IN OWASSO FLOODZONE:	412.09 CY
FILL W/ IN OWASSO FLOODZONE:	154.16 CY
NET VOLUME:	257.93 CY (CUT)

*1.15 FILL FACTOR

VOLUME ANALYSIS LEGEND

CUT SECTIONS

FILL SECTIONS

CITY OF OWASSO
REGULATORY FLOODPLAIN

CONTRACTOR TO FIELD VERIFY ALL UTILITIES WITH OWASSO SCHOOL OFFICIALS AND CALL OKIE PRIOR TO GRADING!

REVISED DETENTION AREA

CITY OF OWASSO
REGULATORY FLOODPLAIN

POA-1

N

50 0 25 50

1" = 50'

LEGEND

- GRADING LIMITS
- 2.00% SLOPE LABEL
- GRADING BREAK LINE
- ADA ACCESSIBLE ROUTE
- 660 PROPOSED MAJOR CONTOUR
- 661 PROPOSED MINOR CONTOUR
- 660 EXISTING MAJOR CONTOUR
- 661 EXISTING MINOR CONTOUR
- POA POINT OF ANALYSIS

BEFORE YOU DIG OKIE 1-800-522-6543 CALL OKIE

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT CITY OF OWASSO STANDARDS AND SPECIFICATIONS (INCLUDING O.D.O.T. 2019 EDITION)

RUNOFF SUMMARY (SCS)			
	EXISTING RUNOFF (CFS)	PROPOSED RUNOFF (CFS)	DIFFERENCE (CFS)
STORM EVENT	POA-1 (J07-04)	POA-1 (J07-04)	POA-1 (J07-04)
1 Year (100%)	135.8	131.0	-4.8
2 Year (50%)	196.1	192.6	-3.5
5 Year (20%)	382.1	381.9	-0.2
10 Year (10%)	509.3	509.0	-0.3
25 Year (4%)	667.1	666.8	-0.3
50 Year (2%)	789.6	789.2	-0.4
100 Year (1.0%)	920.5	919.6	-0.9

*RUNOFF SUMMARY FLOWS ARE FROM THE CITY OF OWASSO MDP HEC-HMS MODEL UPDATED TO INCLUDE THE OWASSO 8TH GRADE PROJECT.

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2/12/2026

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918.584.5858
oklahoma ca #1460
expires 6/30/2027

OWASSO 8th GRADE ADDITION

OWASSO PUBLIC SCHOOLS

OWASSO, OK 2025

PROJECT

KEY PLAN

CITY SUBMITTAL	11.25.2025
CITY RESUBMITTAL	02.12.2026
⚠1 ADDENDUM #1	03.02.2026

REVISIONS

11.25.2025

ISSUE DATE

2440183.01 | PROJECT NO
LSJ | DRAWN BY
ANW | CHK'D BY

REVISED DETENTION AREA & COMPENSATORY STORAGE

⚠1 C303

SHEET

SITE DATA

LAND AREA SUMMARY
NET LAND AREA — 332,803 SF (7.64 AC)

ZONING
ZONING — PUBLIC FACILITIES (PF)

ADDRESS
13901 EAST 86TH STREET NORTH

BUILDING DATA
EXISTING 8TH GRADE CENTER:	93,293 SF
EXISTING GYMNASIUM:	19,803 SF
PROPOSED ADDITION:	23,105 SF
TOTAL BUILDING:	136,201 SF

OFF-STREET PARKING REQUIREMENTS
REQUIRE PARKING SPACES
PROVIDED: 177

HANDICAP PARKING REQUIREMENTS
REQUIRED:	6 HANDICAP SPACES
PROVIDE:	6 HANDICAP SPACES

IMPERVIOUS AREA
TOTAL DISTURBED AREA:	87,120 SF (2.00 AC)
EXISTING IMPERVIOUS AREA:	310,557 SF (7.12 AC)
PROPOSED IMPERVIOUS AREA:	333,644 SF (7.65 AC)
NET INCREASE:	+ 23,086.80 SF

LEGAL DESCRIPTION
S/2 SW LESS BEG SWC SE SE SW SW TH NW552.98 E388.06 N110 E660 S660 W POB & LESS W33 THEREOF FOR RD & LESS S60.01 E962.73 W995.73 THEREOF & LESS S60.01 E665.92 SE SW FOR RD SEC 21 21 14 62.602AC

SECTION: 21 TOWNSHIP: 21 RANGE: 14

FEMA FLOODPLAIN
FIRM PANEL: 40143C0139L EFF. 10/15/12
40143C0137K EFF. 08/02/09

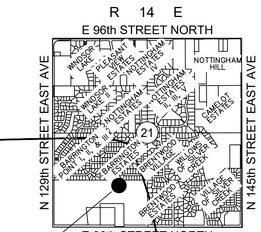
DESIGNATION: ZONE A

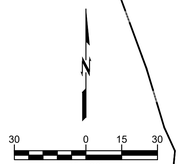
IMPERVIOUS AREA NOTE:

A DRAINAGE LETTER HAS BEEN PROVIDED TO THE CITY OWASSO WHICH PROVIDES AN ANALYSIS DEMOSTRATING THAT THERE IS NO SIGNIFICANT INCREASE IN THE 100-YEAR PEAK FLOWS AT EAST 86TH STREET NORTH AS THE STORMWATER LEAVES THE SITE. THE 100-YEAR FLOW AT JUNCTION J07-04 IS MODELED IN THE ECMDP HEC-RAS MODEL AS 970 CFS, SO THERE IS NO EXPECTED RISE IN IN THE MODELED WATER SURFACE ELEVATIONS AT AND DOWNSTREAM OF EAST 86TH STREET NORTH. **THEREFORE, THERE ARE NO EXPECTED DOWNSTREAM ADVERSE EFFECTS DUE TO THIS PROPOSED DEVELOPMENT.**

MISC. NOTES:

- ALL EXTERIOR LIGHTING FIXTURES SHALL BE FULL CUT-OFF AND SHIELDED
- ALL EXTERIOR HVAC EQUIPMENT SHALL BE FULLY SCREENED AS PER THE OWASS ZONING CODE.





RS-3 ZONING
RESIDENTIAL SINGLE FAMILY
PROPERTY LINE

BENCHMARK
3/8" IRON PIN
N: 473665.52
E: 2609796.271
ELEV: 643.96

15' WATER LINE EASEMENT

EXISTING BUILDING
93,293 SF
645.50 FFE
±12'-0" TOP OF PARAPET

CITY OF OWASSO
REGULATORY FLOODPLAIN

PAVEMENT TRANSITION

73.50LF OF TRANSITIONAL CURB (0" TO 6")

23.56LF OF TRANSITIONAL CURB (0" TO 6")

BENCHMARK
3/8" IRON PIN
N: 473605.781
E: 2610498.691
ELEV: 642.74

PROPOSED BUILDING ADDITION
23,105 SF
645.50 FFE
±24'-0" TOP OF PARAPET

RETAINING WALL RE: STRUCTURAL

WHEELSTOPS RE: T/C802

RETAINING WALL RE: STRUCTURAL

7-STEPS RE: STRUCTURAL

4-STEPS RE: STRUCTURAL

7-STEPS RE: STRUCTURAL

3' CONCRETE TRICKLE CHANNEL RE: I/C800

TRASH ENCLOSURE AREA

(5) BOLLARDS SPACED AT 6' C/C RE: G/C800

EXISTING CONCRETE CHANNEL

RETAINING WALL RE: STRUCTURAL 13/S202 & C301 FOR PROFILE

NEW FIRE LANE

(7) BOLLARDS SPACED AT 6' C/C & CENTERED 1' NORTH OF FIRE LANE RE: G/C800

BENCHMARK
3/8" IRON PIN
N: 473380.442
E: 2610174.993
ELEV: 640.80

EXISTING BUILDING
19,803 SF
641.50 FFE
±32'-0"TOP OF PARAPET

CITY OF OWASSO
REGULATORY FLOODPLAIN

15' WATER LINE EASEMENT

RS-3 ZONING
RESIDENTIAL SINGLE FAMILY
PROPERTY LINE

BEFORE YOU DIG
811 OKIE ONE
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2/12/2026

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OWASSO 8th GRADE ADDITION

OWASSO PUBLIC SCHOOLS

OWASSO, OK 2025 — PROJECT

KEY PLAN

CITY SUBMITTAL	11.25.2025
CITY RESUBMITTAL	02.12.2026
⚠1 ADDENDUM #1	03.02.2026

REVISIONS

11.25.2025 — ISSUE DATE

2440383.01 — PROJECT NO
LSJ — DRAWN BY
ANW — CHK'D BY

OVERALL SITE PLAN

C400

SHEET TITLE

LEGEND

LAY OF A FIRE HOSE

FIRE LINE STRIPE - SHOW 'NO PARKING - FIRE LANE' MARKING. FIRE LANES SHALL BE MARKED BY PAINTING LINES OF RED TRAFFIC PAINT SIX INCHES (6") IN WIDTH TO SHOW THE BOUNDARIES OF THE LANE. THE WORDS 'NO PARKING FIRE LANE' SHALL APPEAR IN FOUR INCH (4") WHITE LETTERS AT TWENTY-FIVE FEET (25') INTERVALS ON THE RED BORDER MARKINGS ALONG BOTH SIDES OF THE FIRE LANES. CURBS SHALL BE PAINTED IN RED TRAFFIC PAINT FROM THE TOP SEAM OF THE CURB TO A POINT EVEN WITH THE DRIVING SURFACE AND LETTERED IN THE SAME MANNER AS THE FLAT STRIPING. IFC 503.3, 503.7.2.1,503.7.3.3, AND APPENDIX D.

CITY OF OWASSO
FIRE DEPARTMENT
11931 E 116 ST N, COLLINSVILLE, OK 74021

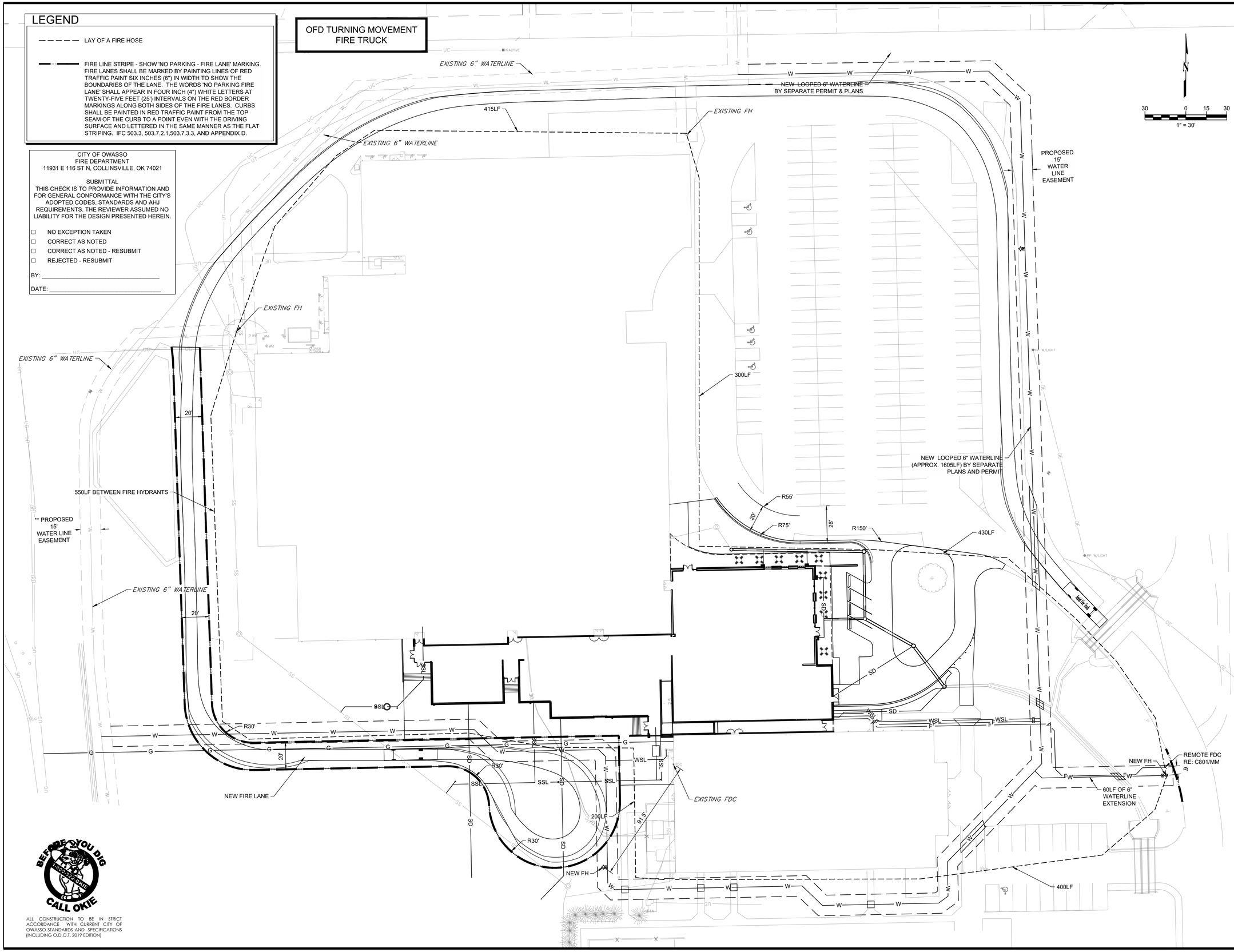
SUBMITTAL
THIS CHECK IS TO PROVIDE INFORMATION AND FOR GENERAL CONFORMANCE WITH THE CITY'S ADOPTED CODES, STANDARDS AND AHJ REQUIREMENTS. THE REVIEWER ASSUMED NO LIABILITY FOR THE DESIGN PRESENTED HEREIN.

- ☐ NO EXCEPTION TAKEN
- ☐ CORRECT AS NOTED
- ☐ CORRECT AS NOTED - RESUBMIT
- ☐ REJECTED - RESUBMIT

BY: _____

DATE: _____

OFD TURNING MOVEMENT
FIRE TRUCK



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CALL OKIE

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OWASSO, OK
2025
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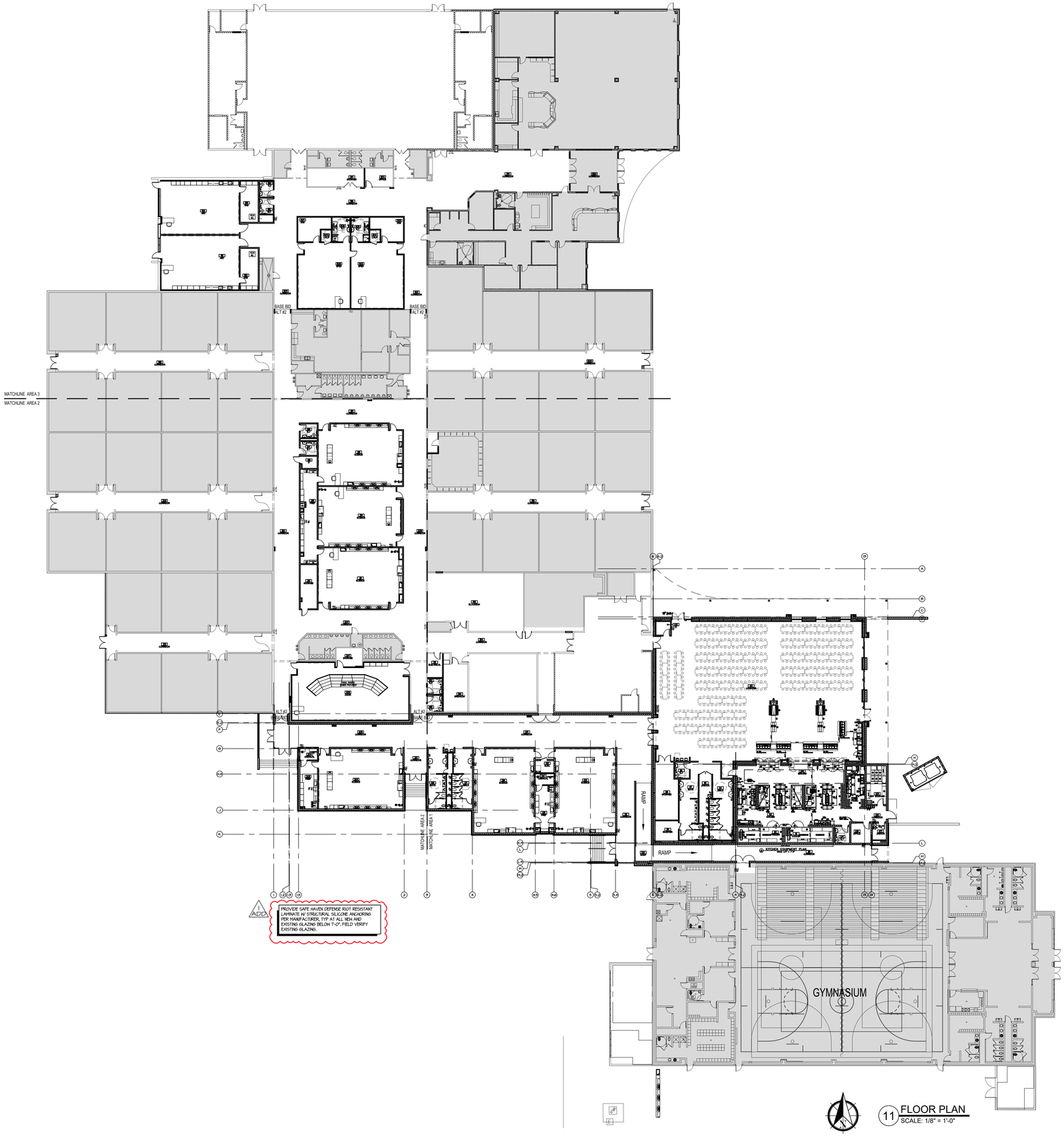
2440383.01 | PROJECT NO
LSJ | DRAWN BY
AWS | CHK'D BY

FIRE DEPARTMENT PLAN

C602
SHEET TITLE



11 FLOOR PLAN
SCALE: 1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES:

1. FLOOR PLAN GENERAL NOTES APPLY TO ALL FLOOR PLAN SHEETS
2. DIMENSIONS FOR DOOR AND WINDOW OPENINGS ARE SHOWN NOMINAL. ALLOW FOR 3/8-INCH SHIMMING AND SEALANT OF EXTERIOR FRAMES.
3. ALL DIMENSIONS ARE ACTUAL AND ARE TO FACE OF GWB, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE.
4. ALL INTERIOR CMU WALLS SHALL BE 8-INCHES NOMINAL THICKNESS UNLESS NOTED OTHERWISE.
5. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4-INCHES ABOVE FINISHED CEILING.
6. SCRIBE GYPSUM BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ANY PENETRATIONS.
7. LOCATE GYPSUM WALLBOARD CONTROL JOINTS AS OUTLINED IN THE SPECIFICATIONS AND/OR AS SHOWN ON THE DRAWINGS.
8. FURNISH AND INSTALL 2X8 CONTINUOUS WOOD BLOCKING IN STUD PARTITIONS FOR ANCHORAGE OF WALL ATTACHED ITEMS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: GRAB BARS, VANITY UNITS, TOILET ACCESSORIES, HANDRAIL BRACKETS, WALL CABINETS, WALL MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, AND ETC.
9. ALL WALLS TO EXTEND TO UNDERSIDE OF DECK UNLESS NOTED OTHERWISE. RE: WALL TYPES.
10. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1/2" VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT THE TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL. OPENINGS IN PARTITIONS AT STRUCTURAL MEMBERS SHALL BE CONSTRUCTED TO WITHIN 1-INCH OF THE STRUCTURAL MEMBER. INFILL VOIDS BETWEEN THE PARTITION AND STRUCTURAL MEMBERS WITH MINERAL WOOL.
11. SEAL AROUND THE INTERIOR OF ALL EXTERIOR ALUMINUM FRAMES AT ALL JAMBS, SILLS, AND HEAD CONDITIONS.
12. SEE STRUCTURAL DRAWINGS FOR BRACING OF NON-LOAD BEARING MASONRY.
13. MASONRY CONTROL JOINTS SHALL BE LOCATED WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE SLAB ABUT MASONRY WALLS BEARING ON THE CONCRETE FOOTINGS.
14. FURNISH AND INSTALL RESILIENT BASE AROUND CASEWORK AND MILLWORK.
15. COORDINATE ALL MECHANICAL CHASE SIZES WITH MECHANICAL SUBCONTRACTOR.
16. COORDINATE SIZES AND LOCATIONS OF 4-INCH HIGH CONCRETE HOUSEKEEPING PADS WITH MECHANICAL AND ELECTRICAL EQUIPMENT SUPPLIERS.
17. FOR ALL METAL STUD WALL HEIGHTS AND GAUGES REFER TO CHART IN SPECIFICATION. ALL STUDS SPACED AT 16" O.C. U.N.O.
18. ALL METAL STUDS AT WALLS WITH CERAMIC TILE SHALL BE MINIMUM OF 20 GAUGE AND HAVE BRIDGING INSTALLED. WALL SHALL NOT FLEX ENOUGH TO CRACK GROUT. IF NECESSARY, PROVIDE GWB SHEATHING ON BACK SIDE OF CHASE WALLS.
19. ALL STOOPS SHALL SLOPE DOWN 1/2-INCH FROM BUILDING PERIMETER TO LEADING EDGE OF STOOP.
20. ALL FLOOR SLABS SHOWN TO DRAIN SHALL HAVE A 2-PERCENT MAXIMUM SLOPE UNLESS NOTED OTHERWISE. IF A FLOOR DOES NOT CALL FOR A SLOPE IT SHALL REMAIN FLAT AND IF NOTED TO MEET SPECIFICATIONS FOR FLATNESS, THE FLOOR SHALL MEET THOSE GUIDELINES.
21. ALL COLD FORMED METAL FRAMING NOT SPECIFICALLY SIZED SHALL BE 16 GAUGE MINIMUM AT 16-INCHES OC.
22. ALL COLD FORMED METAL FRAMING SHALL BE BRACED IN BOTH PLANES. IF NO SHEATHING IS SPECIFIED, PROVIDE Y-BAR BRACING OR BRIDGING AT 24-INCHES OC, OR AS RECOMMENDED BY FRAMING MANUFACTURER.
23. ALL PLYWOOD AND BLOCKING TO BE FIRE RETARDANT TREATED THROUGHOUT PROJECT.
24. EXISTING CONSTRUCTION SHOWN SHADED FOR CLARITY. REFER TO ALL SHEETS IN SET FOR WORK THAT MAY BE REQUIRED IN AREAS OF THE EXISTING BUILDING.
25. CONTRACTOR TO PROVIDE FIRESTOPPING AT OPENINGS AROUND VENTS, PIPES, AND DUCTS THROUGH THE SECOND LEVEL FLOOR AS REQUIRED BY SECTION 718.2.5 OF THE 2018 IBC. CONTRACTOR OPTION TO PROVIDE CONCRETE, STEEL FRAMING, REINFORCEMENT AND ACCESSORIES AS REQUIRED TO SUPPORT CONCRETE OR OTHER APPROVED ASSEMBLY TO MEET CODE. CONTRACTOR TO SUBMIT PROPOSED FIRESTOPPING SYSTEM TO ARCHITECT AND FIRE MARSHAL FOR APPROVAL.
26. RETURN MASONRY VENEER AT ALL JAMBS FOR WINDOWS, DOORS, AND VERTICAL EIFS/METAL PANEL TO VENEER JOINTS, UNLESS OTHERWISE DETAILED OR NOTED.
27. PROVIDE METAL STRAPPING AT 24" O.C. TO CONTAIN BATT INSULATION AT ALL UNFINISHED STUD WALLS.
28. GWB SHALL EXTEND TO DECK IF ROOM IS DESIGNATED AS "OPEN" TO STRUCTURE. RE: RCP
29. AT ALL INTERIOR WALLS WHERE GWB IS TO BE INSTALLED, UTILIZE 5/8" HIGH IMPACT GWB TO 8'-0" AFF UNLESS NOTED OTHERWISE.

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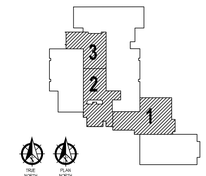
OWASSO 8th GRADE ADDITION

OWASSO PUBLIC SCHOOLS

OWASSO, OK
2025
PROJECT



KEY PLAN

ADD 1 ADDENDUM #1 03.02.2026

REVISIONS

11.25.25
ISSUE DATE

2407 | PROJECT NO
LBT | DRAWN BY
MDS | CHK'D BY

OVERALL FLOOR PLAN

A100
SHEET TITLE

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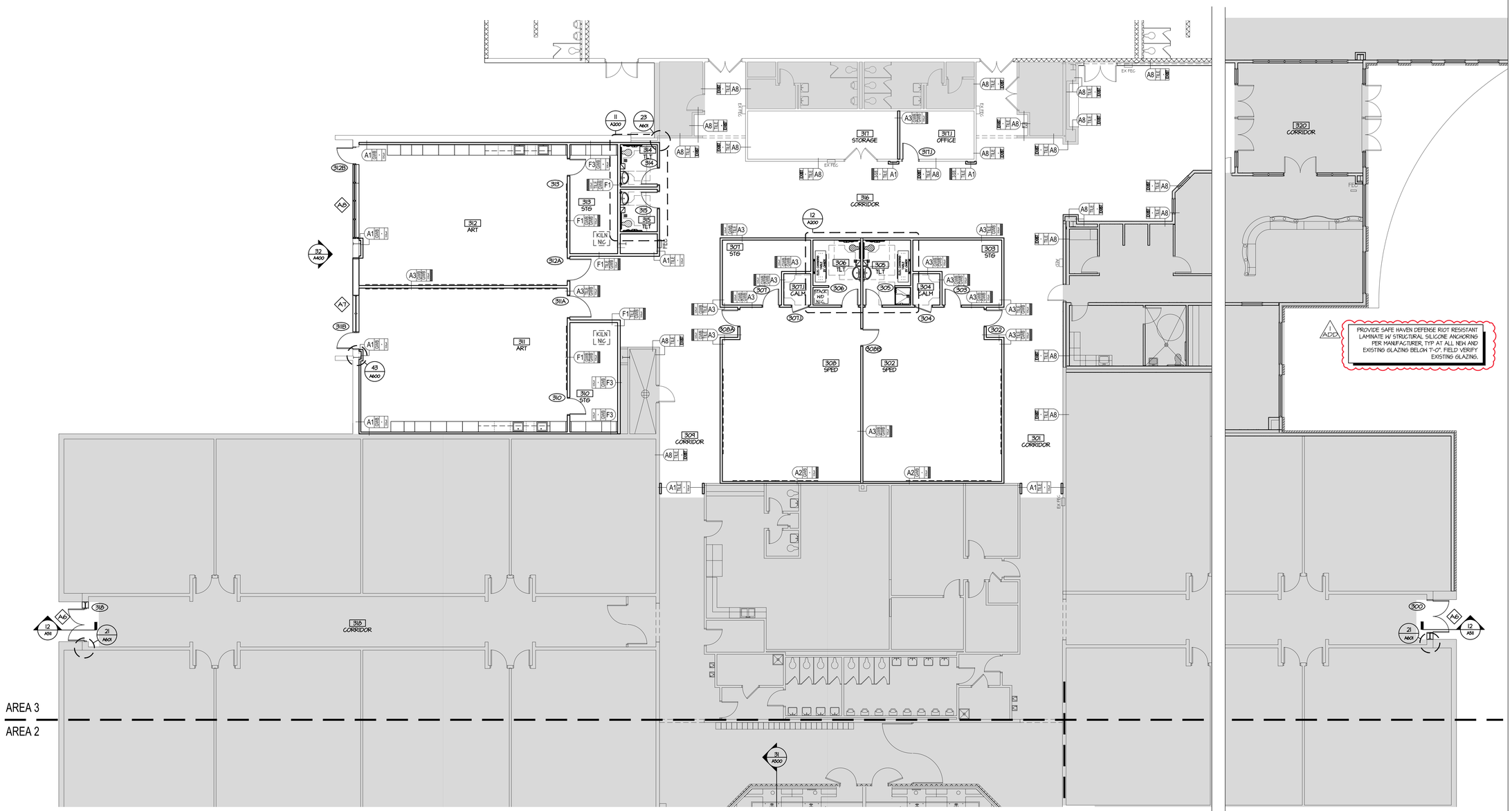

11 FLOOR PLAN - AREA 3
SCALE: 1/8" = 1'-0"

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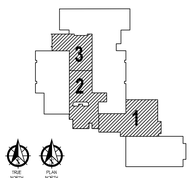
OWASSO 8th GRADE ADDITION

OWASSO PUBLIC SCHOOLS

OWASSO, OK 2025

PROJECT



KEY PLAN

ADD1 ADDENDUM #1 03.02.2026

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ISSUE DATE

2407 | PROJECT NO
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MDS | CHKD BY

FLOOR PLAN
AREA 3 - REFERENCE

A103

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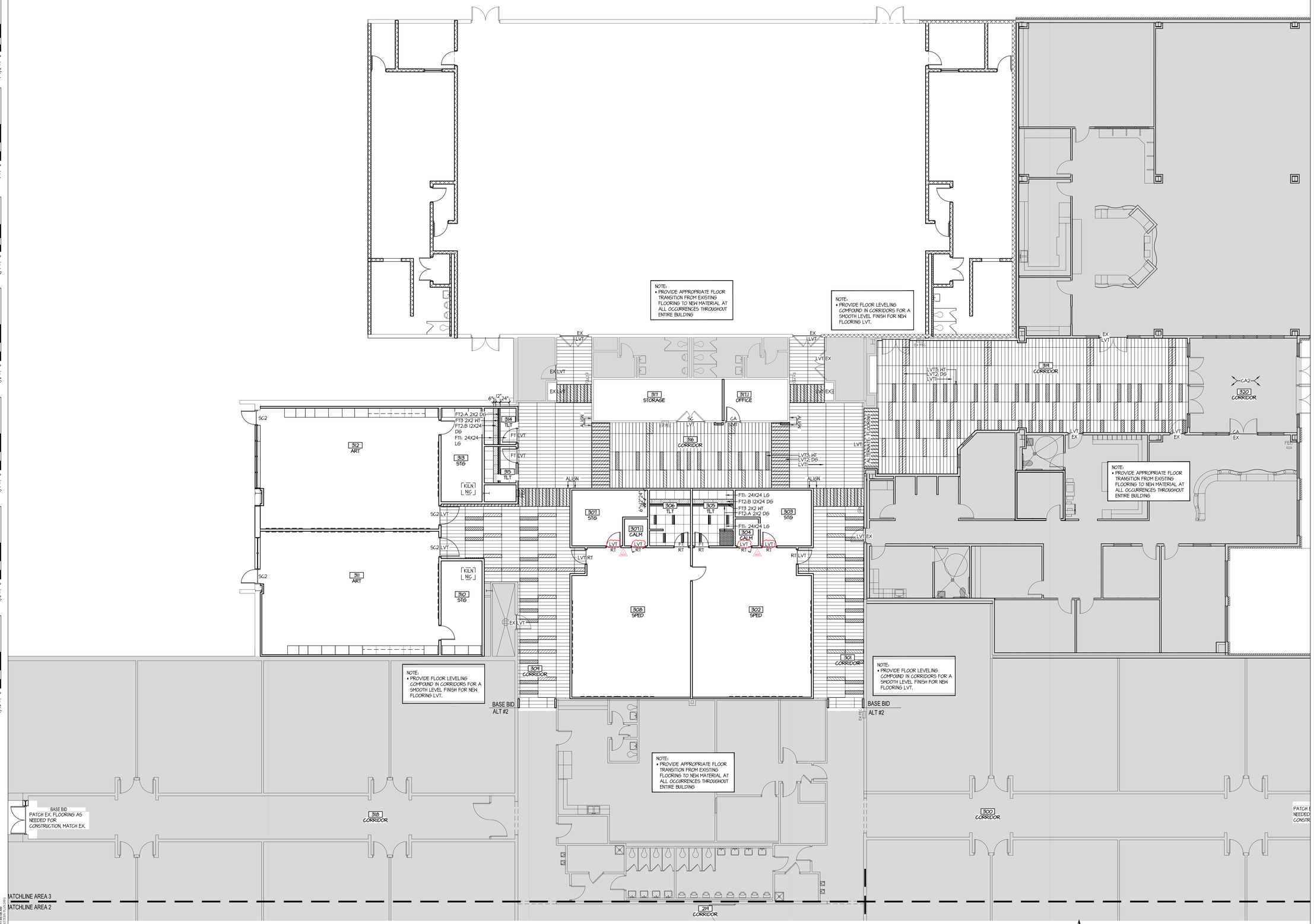

FLOOR PATTERN PLAN - AREA 3 - BASE BID

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

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NOTES:
ALL FLOOR TILE PATTERNS ARE DRAWN USING MFGR. NOMINAL SIZES. TILE WITHIN PATTERNS MAY NEED TO SHIFT ONE HALF TILE, DUE TO TRUE TILE SIZE, TO ELIMINATE SMALL SLIVERS OF TILE AND TO MAINTAIN A 3/16" GROUT JOINT. SUB SHALL NOT RELY ON COUNTING TILE IN PATTERNS SHOWN FOR TAKE-OFF.

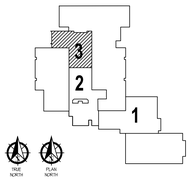
ALL LVT PATTERNS ARE DRAWN USING MFGR. NOMINAL SIZES. PLANKS MAY NEED TO SHIFT ONE HALF TILE, DUE TO TRUE PLANK SIZE, TO ELIMINATE SMALL SLIVERS.

OWASSO 8th GRADE ADDITION

OWASSO PUBLIC SCHOOLS

OWASSO, OK 2025

PROJECT



KEY PLAN

ADDENDUM 1 03.02.26

REVISIONS

11.25.25

ISSUE DATE

2407 | PROJECT NO
JLC | DRAWN BY
AAC | CHKD BY

FLOOR PATTERN PLAN
AREA 3
BASE BID

AI113

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ELECTRICAL SYMBOLS AND ABBREVIATIONS

MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION
A	ABOVE COUNTER, REFER DETAIL 9/E-501	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	OCP	OVERCURRENT PROTECTION
AFF/AFG	ABOVE FINISHED FLOOR/GRADE	GND	GROUND	RCPT	RECEPTACLE
ALT	ALTERNATE	HOA	HAND OFF AUTOMATIC	SM	SURFACE MOUNTED
AMP	AMPERE	IN	INCHES	SPD	SURGE PROTECTION DEVICE
APPROX	APPROXIMATE	KW	KILOWATTS	SPEC	SPECIFICATION(S)
ARCH	ARCHITECT/ARCHITECTURAL	MCC	MOTOR CONTROL CENTER	TV	TELEVISION
ATS	AUTOMATIC TRANSFER SWITCH	MDP	MAIN DISTRIBUTION PANEL	TYP	TYPICAL
C	CONDUIT	MECH	MECHANICAL	UG	UNDERGROUND
CLG	CEILING	MTS	MANUAL TRANSFER SWITCH	UNO	UNLESS NOTED OTHERWISE
DISC	DISCONNECT SWITCH	NC	NORMALLY CLOSED	V	VOLTS
EC	ELECTRICAL CONTRACTOR	NEC	NATIONAL ELECTRIC CODE, NFPA 70	W/	WITH
EXIST	EXISTING	NIC	NOT IN CONTRACT	W/O	WITHOUT
EP	EXPLOSION PROOF	NL	NIGHT LIGHT	WP	WEATHERPROOF (DEVICE AND WHILE-IN-USE ENCLOSURE)
FT	FEET	NO	NORMALLY OPEN	WR	WEATHER RESISTANT (DEVICE AND FLIP ENCLOSURE)
GC	GENERAL CONTRACTOR	NTS	NOT TO SCALE	XFMR	TRANSFORMER
				1/E2	DETAIL 1 ON SHEET E2
	HALFTONE SYMBOL INDICATES EXISTING		TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE		SURFACE MOUNTED RACEWAY WITH POWER/ DATA ASSEMBLIES
	DASHED SYMBOL INDICATES DEMOLITION		TAMPER RESISTANT NEMA 5-20R QUADPLEX RECEPTACLE, (2 DUPLEX RECEPTS IN A 2-GANG BOX)		TELEPHONE OUTLET
	ELECTRICAL 480V PANELBOARD	A	TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER	W	WALL TELEPHONE OUTLET
	ELECTRICAL 208V PANELBOARD		NEMA 5-20R DUPLEX RECEPTACLE MOUNTED IN CEILING		DATA OUTLET
#/##/#	DISCONNECT SWITCH FUSIBLE UNLESS OTHERWISE NOTED, NUMBERS INDICATE FRAME/FUSE/POLE		TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE		TELEDATA COMBINATION OUTLET
#/##/#	DISCONNECT SWITCH NON FUSIBLE UNLESS OTHERWISE NOTED, NUMBERS INDICATE FRAME, FUSE, POLE	WP	WEATHER AND TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE OR SAME IN WEATHERPROOF ENCLOSURE		WIRELESS ACCESS POINT
	CONTACTOR/MAGNETIC MOTOR STARTER OR COMBINATION TYPE	WR	WEATHER AND TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE OR SAME IN WEATHER RESISTANT ENCLOSURE	CR	CARD READER
H	VFD W/ DISCONNECTING MEANS	IG	NEMA 5-20R DUPLEX RECEPTACLE,ISOLATED GROUND TYPE	K	KEYPAD
FACP	FIRE ALARM CONTROL PANEL	IG	NEMA 5-20R ISOLATED GROUND QUADPLEX, RECEPTACLE, ORANGE COLOR		CCTV CAMERA
FAAP	FIRE ALARM ANNUCIATOR PANEL		TAMPER RESISTANT SPLIT DUPLEX, NEMA 5-20R DUPLEX RECEPTACLE MOUNTED AT 18" WITH TWO CIRCUITS.		LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH, INVERTER, OR INTEGRAL 90 MINUTE BATTERY
NAC	SIGNAL POWER EXTENDER		TAMPER RESISTANT USB A/C TYPE RECEPTACLE (LEVITON T5833 OR EQUAL)	$3	LIGHT SWITCH, SPST, 20A. NUMBER INDICATES DPST, 3-WAY, 4-WAY
GAP	GENERATOR ANNUCIATOR PANELBOARD	EWC	ELECTRIC WATER COOLER, NEMA 5-20R DUPLEX RECEPT. MOUNT PER MANUFACTURER'S REQUIREMENTS. PROVIDE GFCI BREAKER.	$b	LIGHT SWITCH, SPST, 20A. LETTER INDICATES CONTROL ZONE
	MOTOR OUTLET/CONNECTION - SEE SCHEDULE		SPECIAL OUTLET - SEE DEVICE SCHEDULE	$P	LIGHT SWITCH, PILOT LIGHT "ON", 20A
	EQUIPMENT CONNECTION - SEE SCHEDULE	V	SPECIAL OUTLET - POKE THRU - SEE SCHEDULE	$K	LIGHT SWITCH, KEY-OPERATED, 20A
XXXX	MECHANICAL EQUIPMENT TAG	FF	FURNITURE FEED - FLOOR BOX - TRIM COLOR TBD	$M	MANUAL MOTOR STARTER SWITCH W/ OVERLOAD
XXXX	OWNER EQUIPMENT TAG	FF	FURNITURE FEED - POKE THRU - TRIM COLOR TBD	$V	VOLUME CONTROL
	RISER OR CONDUIT TURNED DOWN		FLOOR BOX - DUPLEX WITH METALLIC FLIP COVER	$WP	WEATHER PROOF SWITCH
	RISER OR CONDUIT TURNED UP		FLOOR BOX - QUAD WITH METALLIC FLIP COVER	LV	LOW VOLTAGE/BATTERY POWERED LIGHTING CONTROL STATION. PROVIDE BACKBOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING
	CAP ON PIPE	J	JUNCTION BOX (J-BOX OR JB)	M	OCCUPANCY SENSOR SWITCH- WALL MOUNTED
	OPEN CONDUIT END	IR	INFRARED PLUMBING MOTION SENSOR	D	WALLBOX DIMMER SWITCH
	TEST PORT	P	POWER POLE	F	FAN SWITCH/CONTROLLER
A-1,3,5	HOMERUN WITH BRANCH CIRCUIT(S) AS INDICATED	DH	OVERHEAD POWERED DOOR	OS	OCCUPANCY SENSOR - CEILING MOUNTED - SEE LIGHTING CONTROL SCHEDULE
A-1,3,5	PARTIAL HOMERUN WITH BRANCH CIRCUIT(S) AS INDICATED	PB	PULL BOX	OS	OCCUPANCY SENSOR - WALL MOUNTED - SEE LIGHTING CONTROL SCHEDULE
	EMERGENCY CIRCUIT	S	SPEAKER (WALL OR CEILING MOUNTED)	PC	OUTDOOR PHOTOELECTRIC CELL - SEE SENSOR SCHEDULE
	LOW VOLTAGE CIRCUIT	S	PUSH BUTTON	DS	INDOOR DAYLIGHT SENSOR - SEE SENSOR SCHEDULE
	NORMAL CIRCUIT		START STOP		EXIT SIGN
	UNDERGROUND CIRCUIT				

GENERAL ELECTRICAL REQUIREMENTS:

1. ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE ADOPTED EDITIONS OF THE INTERNATIONAL BUILDING (IBC), ELECTRICAL (NEC), AND FIRE (IFC) CODES, NFPA 13, 70, 72, 90A, 101 AND ALL LOCAL AMENDMENTS AND REGULATIONS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE DRAWINGS AND SHALL BE PERFORMED WITH THE LATEST INDUSTRY ACCEPTED STANDARDS. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND APPLICABLE CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED. ALL WORK SHALL BE CONDUCTED IN A SAFE MANNER WITH ADEQUATE PROTECTION FOR THE NEW WORK, EXISTING PROPERTY, AND THE GENERAL PUBLIC.
2. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF EXISTING CONDITIONS, NEW WORK, PATCHING, ETC., REQUIRED BY THE PROJECT, AND TO BECOME FAMILIAR WITH THE WORK CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK INDICATED OR REQUIRED; FOR WORK PROVIDED DURING NON-STANDARD HOURS; FOR WORK REQUIRED TO MAINTAIN BUILDING SAFETY AND FUNCTION; FOR WORK TO PATCH/REPAIR BUILDING SYSTEMS AND FINISHES; OR ANY OTHER WORK RESULTING FROM REQUIRED NEW WORK, RECONNECTION, AND/OR DEMOLITION OPERATIONS.
3. THE WORK REQUIRED IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS. IT IS IMPRACTICAL TO INDICATE ALL REQUIRED MODIFICATIONS AND PATCHING IN EVERY DETAIL. IT IS THE INTENT OF THIS PROJECT TO EXTEND EXISTING SYSTEMS AND PROVIDE NEW SYSTEMS AS INDICATED, COMPLETE IN EVERY RESPECT WHETHER OR NOT SPECIFICALLY DETAILED. INFORMATION ON EXISTING UTILITIES, BUILDINGS, AND SITE LAYOUT HAS BEEN TAKEN FROM OWNER'S & CIVIL ENGINEER'S DRAWINGS AND LIMITED SITE SURVEYS. LOCATIONS, SIZES, QUANTITIES, ETC., ARE APPROXIMATE & ARE INDICATED TO ASSIST IN OUTLINING THE SCOPE OF THE WORK. CONTRACTOR ACKNOWLEDGES THAT EXISTING CONDITIONS HAVE BEEN VERIFIED AND ARE ACCEPTABLE. VARIATIONS IN ACTUAL SITE CONDITIONS AND CONCEALED CONSTRUCTION SHALL BE BROUGHT TO OWNER'S ATTENTION FOR RESOLUTION PRIOR TO COMMENCING APPLICABLE WORK.
4. PROTECT EXISTING CONSTRUCTION & COMPONENTS WHICH ARE TO REMAIN. REPAIR, TO PRE-DISTURBED CONDITION, ANY DAMAGE RESULTING FROM DEMOLITION OR NEW CONSTRUCTION OPERATIONS. CONCEALED CONDITIONS MAY EXIST THAT WILL REQUIRE MINOR REVISIONS IN ARRANGEMENT OF PIPING, VALVES, ATTACHMENTS, CONDUIT, ETC. EXISTING UTILITIES DAMAGED BY CONTRACTOR DURING NEW PIPING, CONDUIT OR EQUIPMENT INSTALLATION SHALL BE REPAIRED TO OWNER'S SATISFACTION.
5. ELECTRICAL SYSTEM PENETRATIONS THROUGH NEW & EXISTING WALLS, FLOOR/CEILING, OR ROOF CONSTRUCTION SHALL BE THOROUGHLY FILLED WITH FIRE RESISTANT MATERIAL (STUFFING FIBRE-FLAX DURA BLANKET IN CAVITIES) AND SEALED WITH 3M BRAND FIRE BARRIER CAULK, CP25. ALL FIRE STOPPING SHALL BE EQUAL TO OR BETTER THAN ASSEMBLY PENETRATED. PENETRATION OF ALL FIRE BARRIERS SHALL NOT IMPAIR THE INTEGRITY OF THE BARRIER. ALL SLEEVED OPENINGS SHALL BE FINISHED IN SUCH A MANNER THAT MAINTAINS THE FIRE RESISTANCE.
6. ELECTRICAL EQUIPMENT INSTALLATIONS SHALL BE IN FULL ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL MEET CURRENT INDUSTRY STANDARDS. WHERE APPLICABLE, EQUIPMENT SHALL BEAR TESTING LABORATORY LABELS. TEST ALL EQUIPMENT FOR PROPER OPERATION. ALL NEW MATERIALS AND EQUIPMENT SHALL BE OF FIRST QUALITY AND FREE FROM DEFECTS.
7. CONTRACTOR SHALL SUBMIT PRODUCT DATA OF ALL PROPOSED MATERIALS AND EQUIPMENT FOR APPROVAL.
8. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL WIRING AND CONDUIT, AND OTHER SYSTEMS SPECIFIED AND REQUIRED IN THE PROJECT. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES BETWEEN MECHANICAL AND ELECTRICAL EQUIPMENT. DUCTS, PIPES, OR EQUIPMENT SHALL NOT INTRUDE ON ELECTRICAL CLEARANCE SPACE AS DEFINED IN THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.
9. ALL NECESSARY PERMITS, LICENSES, CERTIFICATES, TESTS, ETC., SHALL BE OBTAINED BY THE CONTRACTOR, INCLUDED IN THE PROJECT COST AND BID, WITHOUT ADDITIONAL COST TO THE OWNER OR ENGINEER.
10. THE CONTRACTOR SHALL UPDATE RECORD DRAWINGS DAILY, ANNOTATE "AS INSTALLED" CONDITIONS IN RED INK ON HARD COPIES, INDICATING ALL CHANGES FROM THE ORIGINAL DRAWINGS MADE DURING THE INSTALLATION OF THE WORK. AT COMPLETION OF THE PROJECT, THE RECORD DRAWINGS SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE.
11. THE CONTRACTOR SHALL PROVIDE A MINIMUM ONE YEAR WARRANTY ON ALL MATERIALS AND LABOR. UNLESS NOTED OTHERWISE.
12. CONDITIONS MAY OCCUR THAT WILL REQUIRE MINOR REVISIONS IN ARRANGEMENT OF DUCTWORK, ATTACHMENTS, CONDUIT, ETC. ON VARIOUS SYSTEMS. SUCH MODIFICATIONS ARE DEEMED A PART OF THIS CONTRACT, AND SHALL BE SUBMITTED FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
13. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT (A.D.A.) AND ALL STATE REQUIREMENTS.
14. CONTRACTOR SHALL COORDINATE ALL CONNECTION REQUIREMENTS OF OWNER-FURNISHED EQUIPMENT & EQUIPMENT FURNISHED BY OTHERS. PROVIDE NECESSARY MATERIAL AND LABOR FOR A COMPLETE INSTALLATION.
15. ALL PATCHING AND PAINTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE PATCHING AND PAINTING AS A RESULT OF MECHANICAL AND ELECTRICAL ALTERATIONS, CHANGES, AND ADDITIONS. COORDINATE WITH ARCHITECT.
16. SPACE IS LIMITED IN PORTIONS OF THIS PROJECT AND CLOSE COORDINATION WILL BE REQUIRED. CONTRACTOR SHALL COORDINATE TRADES INVOLVED COORDINATION DURING INSTALLATION OF NEW DUCTWORK, ELECTRICAL, AND DEVICES AT AND ABOVE THE CEILING. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
17. REFER TO ARCHITECTURAL, CIVIL, STRUCTURAL & LANDSCAPE DRAWINGS FOR ADDITIONAL REQUIREMENTS. SEE SEPARATE PROJECT MANUAL FOR GENERAL CONDITIONS AND SPECIFICATIONS. IF APPLICABLE: WHERE DISCREPANCIES OCCUR BETWEEN THESE DRAWINGS AND THE PROJECT MANUAL, THE LATTER SHALL BE FOLLOWED. COORDINATE WITH ENGINEER.
18. THE CONTRACTOR SHALL MODIFY, REMOVE AND/OR RELOCATE ALL MATERIALS AND ITEMS INDICATED ON THE DRAWINGS OR REQUIRED BY THE INSTALLATION OF NEW SYSTEMS/EQUIPMENT. ALL REMOVALS AND/OR DISMANTLING SHALL BE CONDUCTED IN A MANNER TO PRODUCE MAXIMUM SALVAGE. SALVAGE MATERIALS SHALL BE DISPOSED OF OFF-SITE, EXCEPT THAT THE OWNER RESERVES THE RIGHT TO SELECT AND RETAIN ANY DESIRED SALVAGE ITEMS. CONTRACTOR SHALL VERIFY WITH OWNER PRIOR TO REMOVING SALVAGED MATERIALS FROM SITE. MATERIALS AND/OR ITEMS SCHEDULED FOR RELOCATION AND WHICH ARE DAMAGED DURING DISMANTLING OR REASSEMBLING OPERATIONS SHALL BE REPAIRED AND RESTORED TO GOOD OPERATIVE CONDITION. THE CONTRACTOR MAY SUBSTITUTE NEW MATERIALS AND/OR ITEMS OF A LIKE DESIGN AND EQUAL QUALITY IN LIEU OF MATERIALS AND/OR ITEMS TO BE RELOCATED.
19. CONCEAL ALL PIPING AND CONDUIT IN FINISHED AREAS UNLESS OTHERWISE NOTED. ALL PIPING, DEVICES, APPARATUS, EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED AND BRACED VERTICALLY AND HORIZONTALLY IN ACCORDANCE WITH CODES AND AS REQUIRED TO PREVENT EXCESSIVE MOVEMENT.
20. COORDINATE CEILING MOUNTED FIXTURES, DEVICES, ETC., WITH MECHANICAL DRAWINGS AND ARCHITECT'S REFLECTED CEILING PLAN DRAWINGS FOR EXACT LOCATIONS OF FIXTURES.
21. CONTRACTOR SHALL SEQUENCE WORK TO MINIMIZE DOWNTIME & OUTAGES. COORDINATE INTERRUPTION OF ANY UTILITY WITH OWNER. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL WIRING AND CONDUIT, AND OTHER SYSTEMS SPECIFIED AND REQUIRED IN THE BUILDING.
22. CORING SLAB PENETRATIONS FOR PIPING/CONDUIT AND DRILLING OF THE STRUCTURE FOR EQUIPMENT ANCHORAGE SHALL NOT BE PERFORMED WITHOUT THE PRIOR APPROVAL OF OWNER AND STRUCTURAL ENGINEER.
23. ALL REQUIRED CUTS INTO EXISTING CONCRETE WALKS, CURBS, AND ALL PAVED AREAS SHALL BE NEATLY SAW CUT AND PATCHED TO MATCH EXISTING TO THE SATISFACTION OF OWNER.
24. IN THE EVENT OF SUBSTITUTION OF EQUIPMENT, IT SHALL BE THE RESPONSIBILITY OF THE SUBSTITUTING CONTRACTORS TO COORDINATE ADDITIONAL REQUIREMENTS FOR THESE ALTERATIONS. THE SUBSTITUTING CONTRACTORS SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL EQUIPMENT, CONDUCTORS, BOXES, CONDUIT, ADJUST OVER-CURRENT PROTECTION DEVICES, PROVIDE ADDITIONAL OCPD, LABOR, ADJUST CONDUCTOR SIZES, ADJUST CONDUCTOR QUANTITIES, AND OTHER NECESSARY APPURTENANCES AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM PER THE MANUFACTURER'S RECOMMENDATIONS. INCLUDE ALL COSTS IN BASE BID.
25. THESE DRAWINGS DIAGRAMMATICALLY INDICATE THE INTENT OF THE PROPOSED CONSTRUCTION. SLIGHT VARIATIONS IN TENANT'S FURNITURE AND SITE CONDITIONS MAY REQUIRE OUTLETS TO BE RELOCATED TO ACCOMMODATE THE ACTUAL FURNITURE AND/OR OUTLETS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL OUTLETS WITH OWNER'S REPRESENTATIVE, PERFORMING ADJUSTMENTS TO OUTLET LOCATIONS AS REQUIRED FOR A FINISHED AND FUNCTIONAL SYSTEM.
26. COORDINATE MOUNTING LOCATIONS OF RECEPTACLES, CLOCKS, FIRE ALARM DEVICES, TELEPHONE OUTLETS, SPECIAL PURPOSE OUTLETS, DATA/COMMUNICATIONS OUTLETS, SECURITY DEVICES, ETC., WITH ARCHITECT'S DRAWINGS AND SITE CONDITIONS PRIOR TO ROUGH-IN.
27. COORDINATE CEILING MOUNTED WIRING DEVICES, FIRE ALARM DEVICES, ETC., WITH MECHANICAL DRAWINGS AND ARCHITECT'S REFLECTED CEILING PLANS.
28. WHERE BACK-TO-BACK WALL MOUNTED DEVICES ARE INDICATED, SEPARATE ADJACENT OUTLET BOXES SHALL BE USED. THRU-WALL BOXES ARE NOT ACCEPTABLE FOR ANY DEVICES.
29. PROVIDE NEC REQUIRED SAFETY DISCONNECT SWITCHES ON ALL EQUIPMENT WHETHER SPECIFICALLY INDICATED OR NOT ON DRAWINGS.
30. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT. ALL LOW VOLTAGE WIRING SHALL USE PLENUM-RATED CABLE.
31. WIRING DEVICES INDICATED OR NOT EXCEPTIONAL TO BE EXISTING SHALL BE VERIFIED FOR PROPER OPERATION, SAFETY AND APPLICATION PRIOR TO REUSE.
32. ALL NEW POWER AND LIGHTING CIRCUITS SHALL BE #12 COPPER MINIMUM, THHN, THWN OR THW, WITH GREEN WIRE GROUND AND SHALL BE CONNECTED TO A 20A BREAKER, MINIMUM.
33. ALL NEW CONCEALED CONDUITS SHALL BE 3/4" MINIMUM EMT WITH COMPRESSION TYPE FITTINGS. PROVIDE SHORT SECTIONS OF FLEXIBLE METAL CONDUIT WHERE REQUIRED. PROVIDE GALVANIZED RIGID CONDUIT IN EXPOSED LOCATIONS SUBJECT TO DAMAGE. INDIVIDUAL WIRING DEVICE CIRCUITS ONLY MAY UTILIZE 1/2" CONDUIT.
34. ALL CONDUCTORS ON ALL WIRING SYSTEMS SHALL BE COPPER.
35. ALL POWER WIRING SYSTEMS SHALL CONTAIN A "GREEN WIRE" INSULATED GROUND CONDUCTOR WITHIN THE RACEWAY SIZED IN ACCORDANCE WITH NEC ARTICLE 250. IN NO CASE SHALL THE METALLIC RACEWAY ALONE BE USED AS A GROUNDING CONDUCTOR PATH.
36. CONTRACTOR SHALL REMOVE ALL CONDUCTORS IN WALLS, ABOVE CEILINGS AND BELOW FLOORS THAT WILL NO LONGER SERVE EQUIPMENT. REMOVE ALL UNUSED CONDUITS WHERE POSSIBLE.
37. ALL RACEWAYS SHALL BE SUPPORTED AND ATTACHED IN ACCORDANCE WITH THE NEC.
38. PROVIDE A TYPED PANEL DIRECTORY FOR EACH NEW AND EXISTING PANEL AFFECTED BY THIS PROJECT. DIRECTORY SHALL IDENTIFY THE CIRCUIT NUMBER AND EQUIPMENT SERVED USING AN "SUITE" OR UNUSED BRANCH OVER CURRENT DEVICES AND LEAVE "SPACES" BLANK FOR FUTURE USE.
39. ALL DEVICE AND JUNCTION BOXES SHALL BE GALVANIZED STEEL OR CAST METAL TYPE.
40. CIRCUIT NUMBERS WHERE INDICATED ARE FOR REFERENCE AND MAY NOT COINCIDE WITH AVAILABLE OR FINAL CIRCUITS USED. CONTRACTOR SHALL NOTE ACTUAL CIRCUITS USED ON PANEL DIRECTORY CARDS AND RECORD DRAWINGS. UPDATE CIRCUIT DIRECTORY CARDS IN NEW AND PANELS AFFECTED BY THE WORK OF THIS PROJECT.
41. ON ALL NEW AND TELEPHONE AND DATA/COMMUNICATION DEVICE BOXES, CONTRACTOR SHALL PROVIDE EMPTY CONDUIT TO ABOVE CEILING AND INSTALL PULL STRING, UNLESS NOTED OTHERWISE.
42. FLOOR POKE-THROUGHS SHALL BE FIRE RATED WITH FLUSH POKE THROUGH AND CONDUIT ADAPTER WHERE INDICATED ON DRAWINGS.
43. IF POWER FOR NEW CIRCUITS IS TO BE DERIVED FROM PANELBOARDS, RE-USE BREAKERS AND/OR PROVIDE NEW MATCHING BREAKERS AS REQUIRED FOR NEW CIRCUITS.
44. ALL POWER RECEPTACLE WIRING DEVICES SHALL BE RATED MINIMUM 20A AND SHALL BE COMMERCIAL GRADE, HEAVY DUTY, GROUNDING TYPE WITH GROUND SCREW FOR GROUND CONDUCTOR ATTACHMENT.
45. ELECTRICAL WIRING COLOR CODING SHALL BE IN ACCORDANCE WITH NEC AND ANY LOCAL AMENDMENTS.
46. PROVIDE MINIMUM 200 POUND TEST STRENGTH NYLON PULL CORDS IN ALL EMPTY CONDUIT SYSTEMS WITH LABELS ON CORDS INSIDE ALL JUNCTION BOXES.
47. ALL NEW WIRING DEVICES SHALL BE FLUSH MOUNTED WHEREVER POSSIBLE. MULTIPLE DEVICES SHALL BE MOUNTED IN GANGS WITH A COMMON GANG DEVICE PLATE. ALL DEVICES AND COVER PLATES SHALL MATCH WHERE APPLICABLE. COORDINATE WITH ARCHITECT FOR FINAL DEVICE AND FACEPLATE FINISHES.
48. CONTRACTOR SHALL VERIFY CIRCUITRY IN CONDUITS TO ASSURE THAT ALL AREAS OUTSIDE PROJECT BOUNDARIES REMAIN IN SERVICE, WHERE APPLICABLE.
49. REFER TO STANDARD DEVICE MOUNTING DETAIL FOR DEVICE MOUNTING ELEVATIONS.
50. CONTRACTOR SHALL COORDINATE AS REQUIRED, ALL CONDUITS, ROUGH-INS, CONNECTIONS, ETC., FOR SECURITY, TELEPHONE, COMPUTER/DATA DEVICES AND EQUIPMENT BY OWNER OR OTHERS.
51. WHERE RELOCATED OR NEW LIGHTING FIXTURES ARE TO BE CONNECTED TO CIRCUITING OF ADJACENT FIXTURES, CONTRACTOR SHALL VERIFY EACH 20A CIRCUIT DOES NOT EXCEED 1800 VA (120V) OR 4400 VA (277V) OF LOAD UNLESS APPROVED BY ENGINEER. LIGHTING SHALL BE CONNECTED USING NEW AND/OR EXISTING WIRING/CONDUIT AS APPLICABLE, AND SHALL BE CONTROLLED IN SIMILAR ZONE SWITCHING ARRANGEMENT AS EXISTING FIXTURES.
52. ALL LAMPING SHALL BE 4000K TEMPERATURE THRU-OUT, TYPICAL, UNLESS NOTED OTHERWISE. LAMPING COLOR SHALL BE REVIEWED AND APPROVED BY THE OWNER PRIOR TO PURCHASE OF LIGHTING FIXTURES. ADJUST FINAL COLOR TEMPERATURES AS REQUIRED.
53. LIGHTING FIXTURE BALLASTS SHALL BE SUITABLE FOR CIRCUIT VOLTAGE TO WHICH CONNECTED, FIELD VERIFY.
54. COORDINATE MOUNTING LOCATIONS OF ALL LIGHT SWITCHES, EXIT SIGNS, ETC., WITH ARCHITECT'S DRAWINGS AND SITE CONDITIONS PRIOR TO ROUGH-IN.
55. FIXTURES AND SWITCHES FOUND TO BE EXISTING AND NOT INDICATED TO BE RE-USED AS INSTALLED SHALL BE REMOVED WITH CEILING/WALL PATCHED AND PAINTED OR BLANK COVER PLATE PROVIDED AS REQUIRED, CONFIRM.
56. FIRE ALARM CONTRACTOR SHALL CAREFULLY DETERMINE IF A FIRE ALARM SYSTEM IS REQUIRED. FIRE ALARM CONTRACTOR SHALL TAKE INTO ACCOUNT IF A SPRINKLER SYSTEM IS TO BE PROVIDED, OCCUPANCY TYPE AND QUANTITY OF OCCUPANTS PER THE ARCHITECTURAL DRAWINGS, PROXIMITY TO THE FIRE HYDRANTS, QUANTITY OF FLOORS, EXISTING CONDITIONS, AND LOCAL AND NATIONAL CODES THAT WOULD REQUIRE A FIRE ALARM SYSTEM UNDER ANY OTHER CONDITIONS. IF A FIRE ALARM SYSTEM IS REQUIRED, THE FIRE ALARM SYSTEM SHALL BE A DESIGN BUILD SYSTEM. FIRE ALARM DESIGN SHALL BE BY THE CONTRACTOR AND APPROVED BY THE STATE FIRE MARSHAL AND LOCAL AUTHORITIES HAVING JURISDICTION PRIOR TO SHOP DRAWINGS OR FINAL APPROVED FIRE ALARM DESIGN SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN AND PURCHASING OF ANY EQUIPMENT AND DEVICES. CONTRACTOR SHALL PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL SYSTEM. IF IT IS DETERMINED THAT A FIRE ALARM SYSTEM IS REQUIRED AFTER THE BID, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A CODE COMPLIANT SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
57. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS, QUANTITIES, AND ELECTRICAL CONNECTION REQUIREMENTS OF EQUIPMENT. REFER TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS SCHEDULE FOR MECHANICAL AND PLUMBING EQUIPMENT POWER REQUIREMENTS AND CIRCUITING.
58. PROVIDE AND INSTALL WHITE LABELS WITH BLACK LETTERING FOR IDENTIFICATION OF PANEL AND CIRCUITS.
59. PRIOR TO ROUGH-IN OF ANY DEVICES, COORDINATE WITH ARCHITECT MILLWORK ELEVATION DRAWINGS FOR EXACT LOCATIONS.
60. SUBMITTAL PROCESS AND SUBSTITUTIONS - ENGINEER WILL ONLY REVIEW QUANTITY (1) ONE SUBSTITUTE SUBMITTAL PACKAGE. IF THE SUBMITTED SUBSTITUTED PACKAGE DOES NOT MEET OR EXCEED THE SPECIFIED PACKAGE IN QUALITY AND PERFORMANCE, THE SPECIFIED PACKAGE (IN ENTIRETY) SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. PRIOR APPROVAL SUBMITTALS ARE NOT REQUIRED FOR BIDDING PURPOSES. LIGHT FIXTURE PACKAGES SHALL BE PROVIDED BY SUPPLIERS WITHIN THE STATE IN WHICH THE PROJECT IS CONSTRUCTED. NO OUT OF STATE SUPPLIERS LIGHTING PACKAGES WILL BE ACCEPTED.
61. KITCHEN EQUIPMENT, FUELING EQUIPMENT, AND GAS VALVES SHALL BE PROVIDED WITH SHUNT-TRIP BREAKERS AND EMERGENCY POWER OFF SWITCHES AS REQUIRED. E.C. SHALL COORDINATE ADDITIONAL REQUIRED SPACES IN PANELS WITH PANEL MANUFACTURER PRIOR TO ORDERING EQUIPMENT. INCLUDE ALL COSTS IN BASE BID.
62. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING TEMPORARY SERVICE FOR CONSTRUCTION. E.C. SHALL ENDURE ALL ASSOCIATED COSTS.
63. ELECTRICAL CONTRACTOR SHALL CONTACT THE ELECTRICAL UTILITY PROVIDER TO DETERMINE FINAL UTILITY REQUIREMENTS, LOCATIONS, AND SIZES PRIOR TO ROUGH-IN AND PURCHASE OF EQUIPMENT. E.C. SHALL ADJUST ALL EQUIPMENT, CONDUCTORS, CONDUIT, AND OTHER ASSOCIATED APPURTENANCES AS REQUIRED TO ACCOMMODATE THE ELECTRICAL UTILITY PROVIDER AS REQUIRED. E.C. SHALL INCLUDE ALL ASSOCIATED COSTS IN BASE BID.
64. LIGHTING FIXTURES SHOWN ON THE DRAWINGS ARE DIAGRAMMATICAL AND ARE NOT INTENDED FOR EXACT PLACEMENT. FINAL LIGHTING FIXTURE LOCATIONS (INTERIOR AND EXTERIOR) SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER FOR FINAL FINISH, LOCATION, LAMP COLOR, ETC. PRIOR TO ROUGH-IN AND PURCHASE OF EQUIPMENT.
65. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 3.5" THICK AND REINFORCED WITH #3 BARS AT 12" ON-CENTER EACH WAY, 1-1/2" CLEAR COVER FROM THE TOP OF THE SLAB, ¾" CHAMFER ON TOP EDGES, EXTEND PAD 4" BEYOND EQUIPMENT FOOTPRINT.

FIRE ALARM SCOPE

EXISTING CONTROL PANEL: EST4 VOICE EVACUATION SYSTEM

PROVIDE TURN-KEY FIRE ALARM SYSTEM ACCORDING TO THE FOLLOWING MINIMUM REQUIREMENTS

1. MEET OR EXCEED ALL APPLICABLE CODES SPECIFIC TO THIS OCCUPANCY AND OCCUPANT LOAD.
2. FIRE ALARM CONTRACTOR TO SUBMIT PLANS, PRODUCT DATA, AND CALCULATIONS TO ENGINEER AND AUTHORITY HAVING JURISDICTION (AHJ) FOR REVIEW. AHJ TO PROVIDE FINAL APPROVAL OF LAYOUT AND CALC.
3. WHITE, CEILING-MOUNTED DEVICES WHENEVER POSSIBLE.
4. PLENUM RATED CABLE SHALL BE SUPPORTED BY DEDICATED J-HOOKS ABOVE CEILING. PROVIDE 1/2" CONDUIT WITHIN WALLS OR WHEN CABLE IS EXPOSED BELOW 10' AFF.
5. PROVIDE WRITTEN ACCEPTANCE TEST PROCEDURE (ATP) PER NFPA 72.
6. PROVIDE 2% SPARE OF THE FOLLOWING COMPONENTS (MINIMUM OF TWO) TO OWNER AS ATTIC STOCK - SMOKE DETECTORS, RELAYS, AND ANY STROBE DEVICE.
7. 1 YEAR FULL WARRANTY ON ALL COMPONENTS AND WORKMANSHIP.
8. ON-SITE OWNER TRAINING OF NOT LESS THAN FOUR HOURS.
9. SEE DIV 28 SPECIFICATION FOR ADDITIONAL DETAILS.

RENOVATED SPACES

1. MODIFY EXISTING SYSTEM AS REQUIRED TO MEET THE NEEDS OF THE PROPOSED LAYOUT.

NEW ADDITION

1. EXTEND THE EXISTING SYSTEM TO SERVE THE ADDITION. CAPACITY TO DO SO HAS BEEN CONFIRMED BY OWNER.

LOW VOLTAGE SCOPE

GENERAL

1. CONFIRM ANY OWNER LOW VOLTAGE S