PART 2 - PRODUCTS

PART 1 - GENERAL A. Work included: Provide aluminum windows where shown on the Drawings, as specified herein, and as

2.1 ALUMINUM WINDOWS A. Acceptable Manufacturers: For purposes of these specifications, provide products by United States Aluminum Corp., (800) 627-6440. Series 7200-Fixed. Equal products by the following manufacturers shall be acceptable:

 Tri-fab, by Kawneer Corp., (770) 449-5555. 2. NR6 Thermol, by Arch. Alum & Glass, Co., (800) 433-8132. 1. ALUMINUM WINDOWS: Types 1, 2, 3, and 4, shall be approximately 1-1/4" x 2-1/2" sash, profile no. 2. GLAZING: Fixed lites shall be 5/8" thick, double pane, sealed insulating glass, both lites clear.

FINISHES: Ref. Exterior Finish Schedule 2.2 FABRICATION A. Fabricate in strict accordance with the manufacturer's specifications and Shop Drawings as approved by the Owner's Representative. B. Provide extruded panning and/or extenders as detailed on the drawings for complete closure of

opening. Contractor shall coordinate with the vinyl siding or other exterior finish requirements

3.1 SURFACE CONDITIONS A. Examine the greas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory

A. Coordinate as required with other trades to assure proper and adequate provision in the work of

B. Make measurements as required in the field to assure proper fit. 3.3 INSTALLATION A. Install the work of this Section in strict accordance with the original design, the approved Shop Drawings, pertinent requirements of governmental agencies having jurisdiction, and the manufacturer's recommended installation procedures as approved by the Owner's Representative, anchoring all

SECTION 08710 - FINISH HARDWARE

components firmly into position for long life.

PART 1 - GENERAL 1.1 DESCRIPTION

A. Work included . Furnish finish hardware required to complete the Work as shown on the Drawings and as specified herein;
2. Furnish trim attachments and fastenings, specified or otherwise required, for proper and complete 3. Deliver to the job site those items of finish hardware scheduled to be installed at the job site; and deliver to other points of installation those items of finish hardware scheduled to be factory installed. 4. Comply with requirements of Americans with Disabilities Act (ADA) and any applicable state or local

1.2 QUALITY ASSURANCE A. Manufacturer: Obtain each kind of hardware (latch and locksets, hinges, closers, etc.) from only one manufacturer, even though several are indicated as acceptable manufacturers.

A. Furnish necessary templates and template data to manufacturers of items that will be fitted with nish hardware in ample time to avoid delay in the work. B. Furnish hardware with required screws, bolts and fasteners necessary for installation, packaged in same packages with hardware, including instructions (no keys).

C. Legibly mark and adequately label each package indicating part of work for which hardware is intended. Markings shall correspond to numbers on approved hardware schedule. D. Deliver hardware for shop application to factories of respective manufacturers in ample time in order not to impede progress of their work.

2.1 ADDITIONAL ACCEPTABLE MANUFACTURERS A. The hardware schedule in the drawings is based on several manufacturers. Additional acceptable Manufacturers/Products are as follows:

a. 432S x length, by Hagar, (314) 772-4440. b. No. 227D x length, Pemko, (800) 283-9988

a. 700, by Alarm Lock, (800) ALA-LOCK. b. 9300, by Dorma, (800) 523-8483.

a. No. 4041, by LCN, (800) 526-2400. a. 303_PK, by Pemko, (800) 283-9988.

a. No. 345D, by Pemko, (800) 283-9988. ı. No. 346, by Pemko, (800) 283-9988.

a. BB1279, by Hager, (314) 772-4440. a. 236W. by Hager (314) 772-4440

a. 307D, by Hager, (314) 772-4440. B. Cylinders and I/C cores must be as manufactured by Schlage. No Substitutions.

A. Butt Hinges: Full mortise template hinges, 5-knuckle type, plain-bearing and ball-bearing as noted B. Locksets and Latchsets: Schlage AL Series cylindrical lockset levers; Saturn design, function as listed on schedule. Backsets and strike types as required by conditions. C. Furnish silencers for door frames at the rate of three for each single door and two for each door or

pair of doors: except weather—stripped doors and doors with light seals or sound seals.

2.3 OTHER MATERIALS A. Provide other materials, not specifically described but required for a complete and proper installation

as selected by the Contractor subject to the approval of the Owner's Representative.

A. US 626 on all hardware, unless noted otherwise.

2.5 KFYING A. Keying system shall be a Schlage grand-master key system (No Substitutions). Final keying shall be in accordance with Owner's requirements and approved keying schedule. Supplier shall meet with the Owner or his representative in order to finalize keying requirements.

B. Lock keys, knock—out keys and master and grand—master keys shall be delivered directly to the Owner's Representative by the Hardware Supplier. C. Keys shall be tagged with Lund C 1507 tags indicating the door number shown on the architectural

D. Furnish three (3) keys for each lock and deliver to Owner's Representative

2.6 TOOLS AND MANUALS A. With the delivery of permanent keys, deliver to the Owner one complete set of adjustment tools and 2.7 HARDWARE SCHEDULE- Refer to Hardware schedule, sheet A1.0

PART 3 - EXECUTION

3.1 INSTALLATION; HARDWARE A. Mount hardware units at heights recommended in "Recommended locations for Builder's Hardware by NBHA except as required to comply with governing regulations.

B. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, install each item completely and then remove and store in a secure place during the finished application. After completion of the finishes, re-install each item. Do not install surface-mounted items until finishes have been completed on the substrate.

C. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Lubricate moving parts with type lubrication recommended by manufacturer (graphite—type if no other recommended). Replace units which cannot be adjusted and lubricated to operate freely and smoothly as intended for the application made. D. Instruct Owner's personnel in proper adjustment and maintenance of hardware and hardware finishes.

3.2 INSTALLATION: WEATHERSTRIPPING AND THRESHOLDS A. Weatherstrip all exterior doors at heads, jambs and sills in a manner to completely seal the openings.

B. Install an extruded aluminum threshold at all exterior wood doors unless noted otherwise by the details on the Drawings.

C. Neatly cut and accurately fit thresholds to door openings. Set thresholds in full bed of mastic and

anchor with non-ferrous screws and expansion shields at 1'-0" o.c.

D. Scribe ends of thresholds to door frames.

E. At completion of job, adjust all weatherstripping for ease of operation. Shim as required.

A. Clean up material, carton, packages, and other debris for the job site. Replace any damaged

SECTION 09220 - PORTLAND CEMENT PLASTER

PART 1 GENERAL

1.1 SUMMARY A. Section Description: Portland Cement Plaster over conventionally framed and sheathed

Water-Resistive Barrie Lath and accessories Plaster materials

sloped for positive drainage.

Optional acrylic prime Products installed by others but not supplied under this section: Flashing Papers/Membranes: Rough window sills shall be properly covered with reinforced coated vapor barrier, grade A or B product under the direct supervision of the general

Flashing and Sheet Metal: Refer to Section 07600. Fabrication and installation of related Mechanic shall be experienced and competent in sheet metal trade. Joint Sealers: Refer to Section 07900. Installation of joint sealant shall be under direct supervision of the general contractor. Joint sealant installer shall be experienced and competent in the installation of elastomeric construction sealants. 1.2 SYSTEM DESCRIPTION

A. Portland Cement Plaster (Stucco): A proportioned field mixed blend of portland cement, masonry cement, sand, glass fibers, acrylic admixture and potable water. Finish Options.
Stucco Finish Coat: A proportioned field mixed blend of white portland cement, hydrated

lime, silica sand, acrylic admixture and water. General: System shall be applied to vertically oriented substrates and shall be protected

from weather exposure harmful to coating performance. Horizontally oriented surfaces shall be

Substrates shall be sound, dry and free of dust, laitance and contaminants. Substrate dimensional tolerances: Flat within 1/4 (0.25) inch in any 4 foot surface Expansion and Control Joints: Continuous expansion and control joints shall be installed 1.3 QUALITY ASSURANCE

Plastering Contractor Qualifications Contractor shall provide a list of completed work of equal scope.

1.4 DELIVERY, STORAGE AND HANDLING Deliver materials in original containers with labels intact and legible. Store and protect materials in cool, dry location, out of sunlight, protected from weather and other harmful environment, and at a temperature above 40° F and below 110° F in accordance with 1.5 PROJECT/SITE CONDITIONS

Protect adjacent construction materials that are likely to be soiled by the application Environmental Requirements

Cold Weather Do not use frozen materials or materials that have been previously frozen Do not apply cement plaster to frozen surfaces or surfaces containing frost. Installation Ambient Air Temperature: Do not mix materials or apply cement plaster when

imbient temperature is less than 40°F. Ambient air temperature must remain at 40°F and sing, and remain so for a minimum 24 hours thereafter Protect cement plaster from uneven and excessive evaporation during hot, windy, or dr weather. Avoid application in direct sunlight. 2) In hot, windy or dry weather, the cement plaster should be spray misted with potable

PART 2 PRODUCTS 2.1 MATERIALS

water and then covered with a single sheet of clear polyethylene plast

. Asphalt Felt: International Building Code, International Residential Code, o. 15 asphalt felt complying with ASTM D 226 for Type 1 felt. . Metal Lath: ASTM C847, self—furring, expanded galvanized steel lath, not less than 3.4 pounds per square yard. Shapes used as grounds shall be sized and dimensioned to provide required plaster Weather-exposed accessories shall be fabricated of galvanized steel or zinc alloy Profile of casing beads and control joints shall provide screed flange and/or embedment

4. Corner reinforcing shall be galvanized welded wire "Corneraid" (Stockton Wire Products) of equal and be fabricated for full embedment in the "brown" coat. Provide standard trim items including control joints, casing beads and base screeds. Plaster Materials
Portland Cement: ASTM C150, Type I. Fresh and free of lumps. Masonry Cement: ASTM C91. Fresh and free of lumps. Hydrated Lime: ASTM C206, Type S.

Fiber: ASTM D578. 0.5 inch long chopped fiberglass, polypropylene or nylon strands, Admixtures: Acrylic liquid admix Acryl 60 (Thoro systems Products, Inc.) or equal

Accurately proportion materials for each batch using measuring devices of known volume. Size batches for complete use within one hour after mixing. Withhold 10 percent mixing water until mixing is nearly complete, then add as needed to produce necessary consistency. Keep water to a minimum.

Mix each batch separately. Maintain mixer in clean condition before, during and after plaster preparation. Maintain mixer in continuous operation while charging mixer

Dry Materials - Scratch Coa cubic foot masonry cement 1.5 to 2.5 pounds of 1/2 inch chopped fiber.

4 cubic feet sand. Dry Materials - Brown Coat cubic foot portland cement. cubic foot masonry cement. 1.5 to 2.5 pounds of 1/2 inch chopped fiber 5 to 6 cubic feet sand. Ory Materials - Stucco Finish Coa

1 cubic foot white portland cement 3/4 cubic foot lime. Pigments as required. 3 cubic feet silica sand. Mixing Liquid: 3 parts water and 1 part acrylic admixture.

PART 3 EXECUTION

Examine the areas and conditions under which the work is to be performed and notify the General Contractor in writing of conditions detrimental to the proper and timely completi of the work. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION Shall be free from holes and breaks other than those created by fasteners. 2. Apply horizontally with the upper layer lapped over the lower layer not less than 2 naches. Where vertical joints occur, paper shall be lapped not less than 6 inches. D. Lath: Attach to framing or substrate in accordance with ASTM C1063. apping sides not less than 1/2 inch and ends not less than 1 inch

Attach level, plumb and true to create a proper screed and lepth for the cement plaster. Install control joints to create panels relatively square, not larger than 144 square feet and with no dimension exceeding 18 feet or a length to width ratio of 2-1/2:1, unless otherwise shown on the Drawings.

Access Panels and Vents: Install accurately located and secured to substrate with appropriate fasteners as per sections 08310 and 10200. Portland Cement Plaster
Total thickness to meet code requirements. First coat "scratch: 3/8 inch.

Second "brown": 3/8 inch. Apply the scratch coat of cement plaster with sufficient force (by hand or machine) to solidly openings in the lath. Horizontally cross rake the scratch coat slightly to provide key for second base coat. Coat must be uniform in thickness. 5. The double-back method of application (first and second coats are applied and cured as

one system) may be used. Apply the second coat (brown) as soon as the scratch coat is rigid. Apply second coat to provide the required total thickness. Coat must be uniform kness. Rod off level to screeds, to provide a true flat plane. Follow this by wood floating r darbying the surface. Fill voids and dress surface for finish. Completed second coat of cement plaster shall cure a minimum 7 days, prior to

application of the finish coat.

Remove spattering of plaster and acrylic finish from other finished surfaces, paving and Remove and legally dispose of plaster system installation debris material from project

SECTION 09260 - GYPSUM WALLBOARD SYSTEMS

A. Work included: Provide gypsum drywall and accessories where shown on the Drawings, as specified herein, and as needed for a complete and proper installation

2.1 GYPSUM WALLBOARD

1. Provide gypsum wallboard complying with Fed Spec SS-L-30D, in 48" widths and in such lengths as will result in a minimum of joints 2. Gypsum board shall be $\cancel{k}^{"}$, with tapered long edges. 6. Fire-retardant wallboard: Provide type III, grade X, class 1, 5/8" thick. Provide behind and adjacent

4. Water-resistant wallboard: Provide type VII, grade W or X as required, class 2, 5/8" (thick except as may be shown otherwise on the Drawings) at Mop Sink.

5. At the Contractor's Option, and at no additional charge to the Owner, 5/8" Type "WR—X" may be used throughout the building for simplicity of ordering, storage, and construction. 2.2 LIGHT GAUGE METAL STUDS

A. Load bearing cold-rolled metal framing shall be as specified in Section 05400.

B. Unless noted otherwise, Light gauge metal studs for Non-loadbearing interior partitions shall be equal to USG ST10 Style studs, 25 gauge, 3-5/8" wide, spaced 16"o.c.

A. Form from zinc-coated steel not lighter than 26 gauge, complying with Fed Spec QQ-S-775, type I, B. Casina beads:

Provide channel-shapes with an exposed wing, and with a concealed wing not less than 7/8" wide. C. Corner beads: Provide angle shapes with wings not less than 7/8" wide and perforated for nailing and joint treatment, or with combination metal and paper wings bonded together, not less than 1-1/4" wide and suitable for joint treatment). Edge beads for use at perimeter of ceilings:

. Provide angle shapes with wings not less than 3/4" wide. Provide concealed wing perforated for nailing, and exposed wing edge folded flat. Exposed wing may be factory finished in white color. 2.4 JOINTING SYSTEM

A. Provide a jointing system, including reinforcing tape and compound, designed as a system to be used together and as recommended for this use by the manufacturer of the gypsum wallboard approved for B. Jointing compound may be used for finishing if so recommended by its manufacturer 2.5 FASTENING DEVICES

A. For fastening gypsum wallboard in place on metal studs and metal channels, use flat—head screws, houldered, specially designed for use with power—driven tools, not less than 1" long, with self—tapping B. For fastening gypsum wallboard in place on wood, use 1-1/4" type W bugle-head screws, or use annular ring type nails complying with ASTM C514 and of the length required by governmental agencies

A. Provide other materials, not specifically described but required for a complete and proper installation. as selected by the Contractor subject to the approval of the Owner's Rep A. Provide all gypsum wallboard and trim as manufactured by United States Gypsum (U.S.G.), (888)

B. Other Acceptable Manufactures: "Gold Bond", by National Gypsum Company, (800) 628-4662. "Gyproc", by Pacific Corp—Gypsum Products, (800) 284–5347. PART 3 - EXECUTION

A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory

3.2 INSTALLATION 1. Install the gypsum wallboard in accordance with the Drawings and with the separate boards in moderate contact but not forced into place 2. At internal and external corners, conceal the cut edges of the boards by the overlapping covered edges of the abutting boards.

3. Stagger the boards so that corners of any four boards will not meet at a common point except in 4. Need slip joint at top of studs where attachment is to dock.

2. Where framing members are spaced 24" apart on walls, space screws 12" on centers.

compounds have dried. 3. Apply the joint treatment and finishing compound by machine or hand tool.

1. Drive the specified screws with clutch-controlled power screwdrivers, spacing the screws 8" on centers

3. Attach double layers in accordance with the pertinent codes and the manufacturer's recommendations.

. Inspect areas to be joint treated, verifying that the avosum wallboard fits snugly against supporting

2. In areas where joint treatment and compound finishing will be performed, maintain a temperature of

not less than 55 degrees for 24 hours prior to commencing the treatment, and until joint and finishing

4. Provide a minimum drying time of 24 hours between coats, with additional drying time in poorly

2. Make end joints, where required, over framing or furring members

at ceilings and 12" on centers at walls.

3.3 JOINT TREATMENT

ventilated areas.

3.5 OTHER METAL TRIM

Install the gypsum wallboard to studs at right angles to the furring or framing members.

. Install smooth and non-slip floor tile as scheduled on the drawings. thresholds at locations scheduled loor and base joints. Make joints watertight, without voids, cracks, excess mortar, or excess grout. F. Sound tile after setting. Replace hollow sounding units. G. Keep control joints free of adhesive or grout. Apply sealant to joints H. Allow tile to set for a minimum of 48 hours prior to grouting

l. Apply sealant to junction of tile and dissimilar materials, junction of dissimilar planes and

. Clean work under provisions of 01710. 3. Clean tile and grout surfaces 3.5 PROTECTION OF FINISHED WORK

. Protect finished Work under provisions of Section 01640. . Do not permit traffic over finished floor surface for 4 days after installation.

A. Provide a complete system of supporting members, anchors, wall cornices, adapters for

1. For the purpose of these specifications, the following are acceptable manufacturers and

Vinyl Faced Ceiling tiles shall be Stipple pattern, vinyl-faced gypsum lay-in panels,

1. Ceiling tiles shall be mineral fiber lay-in panels, color per finish schedule, nominal $\frac{3}{4}$

thick, 24"x48", ¹%₆" angled tegular edge, scored 24"x24" nominal.

2. For the purpose of these specifications, the following is the acceptable manufacturer.

a. Fine Fissured, Second Look III No. 1761, color per finish schedule, by Armstrong.

2. Provide other materials, not specifically described but required for a complete and

A. Examine the areas and conditions under which work of this Section will be performed.

Correct conditions detrimental to timely and proper completion of the Work. Do not proceed

recommendations of the manufacturer as approved by the Owner's Representative, or specific

2. Secure lateral bracing to structural members. Secure at right angles to the direction of the

partition and four ways in large ceiling areas.

C. Provide hold—down clips for ceiling broads in stockroom and elsewhere so required by the

. Make all grid level within a tolerance of one in 1000 and straight within tolerance of one

. Space main tees at 48" o.c., suspend from structure with hanger wire spaces at 48" o.c.

. Space cross tees at 24" o.c., connect to main tees. Space sub cross tees to cross

A. In addition to other stipulated requirements for cleaning, completely remove finger prints

and traces of soil from surfaces of grid and acoustical materials, using only those cleaning materials recommended for the purpose by the manufacture of the material being cleaned.

Shop Drawings: Show locations of each type of tile and tile pattern. Show widths,

In other Part 2 articles where titles below introduce lists, the following requirements

apply for product selection:
1. Available Products: Subject to compliance with requirements, products that

Assembled samples with grouted joints for each type, composition, color, finish

may be incorporated into the Work include, but are not limited to, the products

details, and locations of expansion, contraction, control, and isolation joints.

Each type, composition, color, and finish of tile.

Install additional hanger wires at ends of each suspension member and at light fixture

A. Except as modified by requirements of governmental agencies having jurisdiction.

directions of the Owner's Representative, install in accordance with ASTM C636.

B. Lateral bracing:
 1. Provide lateral bracing as required by pertinent codes and regulations.

tees at 24" o.c. Rest main and cross tees on wall moldings.

proper installation, as selected by the Contractor subject to the approval of the Owner's

ight fixtures and grilles, and accessories of every type required for a complete suspended

grid system of the arrangements shown on the Drawings, and complying with pertinent

equirements of Underwriters Laboratories, Inc., and the aovernmental agencies having

Hanger Wire: Minimum 12 gauge, galvanized, soft—annealed, mild steel wire.

B. Provide a "T" grid system, aluminum capped, 15/16", white color.

a. Prelude 7300 series, by Armstrong World Industries, (717) 397-0611.

b. 1830 Series, by Chicago Metallic Corp, (708) 563-4600.

c. ZXA System, by U.S.G. Interiors, Inc. (888) 834-2371.

white color, nominal ½" thick, 24"x48", square edge.

a. No. 3270, by U.S.G. Interiors, Inc. (888) 834-2371.

o. Clean Room VL, by Armstrong World Industries, (717) 397-0611.

Endure Vinyl Panels, by Chicago Metallic Corp, (708) 563-4600.

SECTION 09510 - ACOUSTICAL CEILINGS PART 1 - GENERAL

. Apply to gypsum wallboard joints and fastener heads in a thin uniform layer. A. Work included: Provide acoustical ceilings where shown on the Drawings, as specified 2. Spread the compound not less than 3" wide at joints, center the reinforcing tape in the joint, and embed the tape in the compound. Then spread a thin layer of compound over the tape.

3. After this treatment has dried, apply a second coat of embedding compound to joints and fastener 1.2 QUALITY ASSURANCE neads, spreading in a thin uniform coat to not less than 6" wide at joints, and feather edged. A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in

2. Smoke Developed: 0

PART 2 - PRODUCTS

urisdiction. (Non-fire rated)

Acceptable Manufacturers:

2.2 ACOUSTICAL CEILING PANELS

. Decorative Ceiling Tiles:

2.3 OTHER MATERIALS

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

governmental agencies having jurisdictio

SECTION 09310 - CERAMIC TILE

1.2 SUBMITTALS

PART 2 PRODUCTS

2.1 MANUFACTURERS

PART 3 - EXECUTION

3.2 INSTALLATION, GENERAL

SECTION 09610 - CONCRETE STAIN

1.1 RELATED DOCUMENTS

1.2 SECTION INCLUDES

1.3 QUALITY ASSURANCE

Jobsite Conditions:

PART 1 GENERAL

A. This Section includes the following:

Product Data: For each product indicted.

Atlas Minerals & Chemicals, Inc

Bonsal, W.R., Company

C-Cure Custom Building Products

Jamo Inc. LATICRETE INTERNATIONAL INC.

MAPEI Corporation Southern Grouts & Mortars, Inc

B. Dry-Set Portland Cement Mortar (Thin Set): ANSI A118.1.

1. For wall applications, provide nonsagging mortar.
Water-Cleanable, Tile-Setting Epoxy Adhesive: ANSI A118.3.
Organic Adhesive: ANSI A136.1, Type 1.
Standard Sanded Cement Grout: ANSI A118.6, color as indicated.

A. Remove coatings, including curing compounds and other substances that contain

soap, wax, oil, or silicone, that are incompatible with tile—setting materials.

B. Fill cracks, holes, and depressions with trowelable leveling and patching compound

A. TCA Installation Guidelines: TCA's "Handbook for Ceramic Tile Installation." Comply with TCA installation methods indicated in ceramic tile installation schedules.

Accurately form intersections and returns. Perform cutting and drilling of tile

without marring visible surfaces. Grind cut edges of tile abutting rim, finish,

built-in items. Fit tile closely to electrical outlets, piping, fixtures, and other

Provisions established within the General and Supplementary General Conditions of the Contract, Division 1 - General Requirements, and the Drawings are collectively applicable to

Concrete floor slabs colored using a tinted, penetrating stain that is non-reactive.

Work shall be performed by a qualified contractor who is experienced and trained in surface cleaning and preparation of concrete, surface coloring and sealing. Concrete shall be cleaned

they have a properly cured and porous surface. If the concrete surface is 'dusty' or otherwise

Product shall not be applied if concrete temperature drops below 500 F or rises above

90 o F. Use a surface thermometer to determine concrete temperature.

Mask and protect all adjacent surfaces and finishes from damage, staining or defacing

prepared, tinted and sealed using and by following manufacturer's application guidelines. Concrete surface shall have no sealers, curing compounds, loose debris, oil, grease, dirt, or coatings that will resist the penetration and bonding of Color Stains to the concrete substrate.

3. Barricade work area from pedestrian and vehicular traffic once surface preparation

penetrations so plates, collars, or covers overlap tile.

Jointing Pattern: Lay tile in grid pattern as indicated on Construction Documents.

Align joints when adjoining tiles on floor, base, walls, and trim are same size. Lay out tile work and center tile fields in both directions in each space or on each wall

area. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwis

according to tile—setting material manufacturer's written instructions.

C. Remove protrusions, bumps, and ridges by sanding or grinding.

D. Install tile on floors with the following joint widths:

Floor Tile: 1/4 inch (5.35 mm)

Perform work in accordance with ACI 301.

1. Glazed Wall Tile: 1/16 inch (1.6mm)

Summitville Tiles, Inc. TEC Specialty Products Inc.

Floor tile
 Glazed wall tile

2.2 SETTING AND GROUTING MATERIALS

Manufacturers:

A. Vinvl Faced:

2 1 "T" GRID SYSTEM

the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section. Sandpaper between coats as required. When thoroughly dry, sandpaper to eliminate ridges and high points. C. Finishing compounds:

After embedding compound is thoroughly dry and has been completely sanded, apply a coat of . Qualification of Installer: Minimum of 3 previous project installations of comparable size. . Fire Hazard Classification: Maximum Flame Spread: UL (ASTM E84): 25. finishing compound to joints and fastener heads.

Feather the finishing compound to not less than 12" wide. 3. When thoroughly dry, sandpaper to obtain a uniformly smooth surface, taking care to not scuff the

A. Internal corners: Treat as specified for joints, except fold the reinforcing tape lengthwise through the middle and fit neatly into the corner. B. External corners:
1. Install the specified corner bead, fitting neatly over the corner and securing with the same type fasteners used for installing the wallboard. 2. Space the fasteners approximately 6" on centers, and drive through the wallboard into the framing or 3. After the corner bead has been secured into position, treat the corner with joint compound and reinforcing tape as specified for joints, feathering the joint compound out from 8" to 10" on each side

The Drawings do not purport to show all locations and requirements for metal trim. Carefully study the Drawings and the installation, and provide all metal trim normally recommended by manufacturer of the gypsum wallboard approved for use in this Work. B. Control Joints: Space at 30'-0" OC maximum. Locate over door heads, borrowed lites, etc. in line

A in addition to other requirements for cleaning use necessary care to prevent scattering avosum wallboard scraps and dust, and to prevent tracking gypsum and joint finishing compound onto At completion of each segment of installation in a room or space, promptly pick up and remove from the working area all scrap, debris, and surplus material of this Secti

SECTION 09265 - CEMENTITIOUS TILE BACKER BOARD PART 1 - GENERAL

 Work included: Provide gypsum drywall and accessories where shown on the Drawings, as specified herein, and as needed for a complete and proper installation.

2.1 CEMENTITIOUS TILE BACKER BOARD A. Provide fiber reinforced cement tile backer board, ½" thick (or 5/8", see drawings). B. Provide backer board by one of the following: "Durock", by USG, (888) 834-2371. "Permabase", by National Gypsum Co., (704) 365-7300. "Gyproc Moisture Guard", by Georgia Pacific-Gypsum Products, (800) 284-5347.

A. Provide other materials, not specifically described but required for a complete and proper installation, as selected by the Contractor subject to the approval of the Owner's Representative

A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory 3.2 INSTALLATION

1. Install the cementitious backer board in accordance with the manufacturers recommendations and as 2. Install with 1/8" thick shims where used in conjunction with 5/8" gypsum wallboard.

SECTION 09270 - FIBERGLASS REINFORCED PLASTIC WALL PANELS PART 1 - GENERAL

A. Provide fiberglass wall panels where shown on the Drawings, as specified herein and as needed for a

2.1 MANUFACTURERS A. Products listed herein are as manufactured by Marlite (330) 343-6621 3. Other acceptable manufactures: "Glasbord-P", by Kemlite Company, (800) 435-0080. 2. "Class A", by Lasco, (859) 371-772 2.2 MATERIALS

B. Where higher fire rating may be required by local codes, provide panels of Class A/I rating. Provide PVC outside corner guard, M-961, P-100 "White". D. FRP accessories including adhesives, corner trims, division trim, and edge trim shall be as indicated on the drawings, or as otherwise required for a complete and proper installation. E. Silicone sealant shall be as specified in Section 07900 2.3 OTHER MATERIALS
A. Trim: Vinyl Molding Trim as supplied by the manufacturer of the panels for corners, vertical joints,

A. Fiberglass Reinforced Plastic Panels (FRP): 3/32" thick, 4'x8', 4'x9' and/or 4'x10' panels, P-100 "White", Pebble finish, Class C/III

openings and ceiling intersections. C. Provide other materials, not specifically described but required for a complete and proper installation, as selected by the Contractor, subject to the approval of the Owner's Representative PART 3 - EXECUTION

3.1 SURFACE CONDITIONS A. Examine the greas and conditions under which Work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory

A. Installation of panels shall be in strict accordance with the manufacturer's recommendations. B. Promptly upon completion of installation, clean all exposed surfaces with methods and materials recommended by the manufacturer of the panels.

SECTION 09306 - QUARRY TILE PART 1 - GENERAL

2.3 GROUT MATERIALS

3.1 FXAMINATION

1.1 SECTION INCLUDES A. Quarry tile floor finish using the Latex—Portland Cement mortar application method.

ANSI A118.4 - Latex-Portland Cement Mortar D. ANSI A118.6 — Ceramic Tile Grouts. F. ANSI A137.1 — Standard Specifications for Ceramic Tile. G. TCA (Tile Council of America) - Current Edition Handbook for Ceramic Tile Installation.

A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience B. Installer: Company specializing in performing the work of this Section with minimum three years documented experience, and approved by tile manufacturer.

A. Do not install adhesives in an unventilated environment. B. Maintain 50 degrees F (10 degrees C) during installation of mortar materials. PART 2 PRODUCTS

A. ANSI A108.5 — Installation of Quarry Tile with Portland Cement Mortar.

3. ANSI A108.10 - Installation of Grout in Tilework.

2.1 TILE MANUFACTURERS A. Quarry tile shall be 6"x6" with abrasive grain and cove base trims to match. B. Color: "Ashen Grey", 0703 C. Provide Quarry Textures tile as manufactured by Dal—Tile Corp. or equal. 2.2 MORTAR MATERIALS A. Mortar Materials: ANSI A118.4 Latex Modified, Portland cement, sand and latex additive.

A. Grout: ANSI A118.6, tile grout B. Color: No. 47. "Charcoal . Provide grout from the Classic Collection as manufactured by Mapei, equal to 2.4 ACCESSORIES Thresholds: Extruded aluminum

2.5 MORTAR MIX AND GROUT MIX A. Mix and proportion cementitious materials for site made mortar bed and bond coat. 2.6 ANTIFRACTURE MEMBRANE A. Mix and proportion cementitious materials for site made mortar bed and bond coat PART 3- EXECUTION

3.2 PREPARATION . Protect surrounding work from damage or disfiguration. B. Vacuum clean surfaces and damp clear

A. Verify that surfaces are ready to receive work.

A. Install tile and grout in accordance with TCA Handbook, F113-03 installation method Lay tile to pattern indicated. Do not interrupt tile pattern through openings. Place D. Cut and fit tile tight to penetrations through tile. Form corners and bases neatly. Align E. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size.

Include data on joint filler, chemical stains, and curing/sealing compounds.

Provide field samples of surface colors and textures specified for architect approval prior to beginning work, 48 x 48 inch in size illustrating paving finishes.

A. Piamented Penetrating Stain: Micronized Pigments suspended in a concrete-penetrating, water- based, hydrolyzed compound. B. Sealing and Finish Coatings: Clear, penetrating sealer that provides a breathable, protective film and can be used to protect applications of Concrete Color Stains.

PART 3 EXECUTION

3.1 CONCRETE COLORATION Verify that newly placed concrete has cured at least 28 days and that non-compatible applied, it must be removed per manufacturer's recommendations. Areas to receive

> penetration and bonding of Concrete Color Stains to the actual substrate. If grease or oil residue is evident, additionally clean the surface using Concrete
> Degreaser to remove any oily residue that will resist the penetration and bonding of Concrete Color Stains to the actual substrate.
>
> Thoroughly rinse with clean water to remove all cleaning residue. Surface shall be free of

If surface is too dense or polished, profile and etch using ERA Acid according to application instructions. Rinse and clean with water to remove all residue.

Protect all surrounding landscaping and adjacent surfaces from over spray or residue 6. Do not allow tape of any kind to be applied to or to come in contact with the floor,

prior to or after colorant has been applied. Before applying Concrete Color Stains, ensure that surface temperature of the subject surface is between 500 and 900 F. Surfaces above or below these extremes may cause Divide work area into smaller work sections for proper control of coverage. Plan work

area so that concrete that is wet with colorant is not subject to immediate pedestrian Apply Concrete Color Stains using a Applicator Brush according to Concrete Color Stains application instructions. 3.Allow manufacturer's recommended drying time after application Apply Concrete Sealer in accordance with manufacturer's instructions. Generally, 24 hours.

Protect stained floors from construction damage until substantial completio Maintain floor at regular intervals per manufacturer's recommendation

SECTION 09900 - PAINTING PART 1 - GENERAL

b. INTERIOR:

3.2 PROTECTION

A. Work included: Paint and finish the exterior and interior exposed surfaces listed on the Painting Schedule in Part 3 of this Section, as specified herein, and as needed for a 1. Listed below are areas required for painting although not necessarily all inclusive. listing, however, does not relieve this contractor of verifying all other sections of these 2. For the purpose of these specifications, the following are acceptable manufacturers and specifications for provisions regarding painting.

a. EXTERIOR: Galvanized metal Structural steel shapes Mechanical piping and equipment (except roof mounted items) Electrical conduits, panels, etc. (except roof mounted items)

Galvanized sheet metal Miscellaneous metal items Iollow metal doors and frames Exposed Mechanical piping and equipment Exposed Meditalisal pipility and equipme Exposed Electrical conduits, panels, etc E. PAINTING DOES NOT INCLUDE:

Hollow Metal Doors and Frames - Section 08100

Painting roof mounted mechanical and electrical work. 2. This subcontractor shall thoroughly examine the other sections of these specifications for the requirements of other sections shall be painted or finished under this section of the Work Notify Owner's Representative of discrepancies. 3. "Paint" as used herein means all coating systems materials, including primers, emulsions, enamels, stains, varnishes, sealers, fillers, and other applied materials whether used as prime, B. Related work specified elsewhere:

Gypsum Wallboard System - Section 09620 scellaneous Metals - Section 05500 . Work not included: . Unless otherwise indicated, painting is not required on surfaces in concealed areas and inaccessible areas such as furred spaces, foundation spaces, utility tunnels, pipe spaces, and

2. Metal surfaces of anodized aluminum, stainless steel, chromium plate, copper, bronze, and imilar finished materials will not require painting under this Section except as may be so . Do not paint moving parts such as valve operators; linkages; sensing devices; and motor shafts, unless otherwise indicated. 4. Do not paint over required labels or equipment identification, performance rating, name, o 5. Do not paint concrete which has been sandblasted. PART 2 - PRODUCTS

A. The specified painting formulas are based on the top line products of Sherwin Williams, Inc. (216) 566-2000. Other acceptable manufacturers are: Glidden, (216) 344-8222 2. Devoe. (216) 344-8532 Benjamin Moore. (201) 573-9600

2.2 PAINTING SCHEDULE A. All paint formulations are based on products of Sherwin Williams, Inc. The surfaces listed in the painting schedule shall receive the surface preparation, paints and number of coats necessary to achieve accurate full color coverage. Exposed piping shall not be painted until the piping has been tested and approved.

B. Primer and undercoat paint to be by same manufacturer as the finish costs. Use only pproved thinners and within recommended quantities. C. Refer to the end of this Section for painting schedule. All paints specified are for brush

3. Touch—up paint for the canopy fascia, deck pans, etc. to be furnished by the canopy

or roller application. Dripless spraying is acceptable for large areas using comparable materials. Caution shall be taken to not spray adjacent surfaces. 3.1 CLEANING AND PREPARATION OF SURFACES A. Hardware, hardware accessories, machine surfaces, plates, lighting fixtures, and similar items in contact with painted surfaces and not to be painted shall be removed, masked, or otherwise protected prior to surface preparation and painting operations. Remove door silencers from hollow metal door frames and replace after painting. Surfaces to be painted

shall be clean before applying paint or surface treatments 3.2 PAINT APPLICATION A. Prepare all surfaces in accordance with requirements of paint manufacturer. All paint shall be applied under strict controls as established by manufacturer.

B. If spraying is elected to be used by this Contractor, care shall be taken to not damage adjacent finish areas. If damage does occur, Contractor shall correct or replace surfaces at no cost to Owner.

C. The finished surfaces shall be free from runs, drips, ridges, waves, laps, brush marks, and variations in color, texture, and finish. The hiding shall be complete, and each coat shall be so applied to produce film of uniform thickness. Special attention shall be given to insure that all surfaces including edges, corners, crevices, welds, and rivets receive a film thickness equivalent to that of adjacent painted surfaces. Adjacent areas and installations shall be protected by the use of drop cloths or other approved precautionary measures. Sufficient

A. Cloth and cotton waste that might constitute a fire hazard shall be placed in closed metal containers or destroyed at the end of each day. Upon completion of the work, staging, scaffolding, and containers shall be removed from the site. Paint spots, oil, or stains upon adjacent surfaces shall be removed and the entire job left clean and acceptable B. Provide a minimum of one gallon each of all paints for the Owner's use.

ime shall elapse between successive coats to permit proper drying.

3.4 PAINTING SCHEDULE
A. Colors: Refer to finish schedule, sheet A2.0. 3. The following exterior coating applications are to be addition to those specified elsewhere. 1. Ferrous Metal: (Canopy Steel and including mechanical and electrical items of ferrous metal not factory finished painted): a. 1st coat Kem Kromik Metal Primer B50W21, (Touch-up Prime Coat) b. 2nd coat Industrial Enamel, (light colors: B54W2101), (dark colors: B54T2104) c. 3rd coat Industrial Enamel, (light colors: B54W2101), (dark colors: B54T2104)

2. Galvanized Steel and Iron: (including mechanical and electrical items of galvanized iro and steel not factory finish painted). a. solvent clean
b. 1st coat: B66 W1 DTM acrylic primer/finish, 3 mils DFT
c. 2nd coat: Pro-Mar 200 Latex, Egg-shell, B20W201
C. The following interior coating applications are to be in addition to those specified

1. Galvanized Metals d. solvent clean e. 1st coat: B66 W1 DTM acrylic primer/finish, 3 mils DFT . 2nd coat: Pro-Mar 200 Latex, Egg-shell, B20W201 a. Texture: Light Stipple Texture
b. 1st coat: Pro-Mar 200 Latex, Egg-shell, B20W201
c. 2nd coat: Pro-Mar 200 Latex, Egg-shell, B20W201

a. 1st coat: Pro-Mar 200 Alkyd Enamel Undercoater B49W22 b. 2nd coat: Pro-Mar 200 Alkyd Semi-gloss, A40W25 c. 3rd coat: Pro-Mar 200 Alkyd Semi-gloss, A40W25 4. Misc. Metals (Hollow metal doors, frames, access doors, equipment) a. 1st coat: B66 W1 DTM acrylic primer/finish, 3 mils DFT o. 2nd coat: Pro-Mar 200 Latex, Egg-shell, B20W201 D. See Section 02580 for Traffic Paint. E. Any other exposed surfaces and areas not specifically mentioned above and which are no

not less than two coats of an appropriate type of paint as directed by the Owner's Representative unless otherwise noted on the Drawings.

covered in "Related Work", or items listed in "Do not paint" paragraph, shall be painted with

SECTION 09960 - HIGH PERFORMANCE COATINGS

proposed field applied finish; not laboratory applied finish.

This Section includes: Product Data: For each type of product indicated.

Installer Certificates for Qualification: Signed by manufacturer certifying that installers comply with specified requirements.
C. Material Certificates: For each resinous flooring component, from manufacturer. Material Test Reports: For each resinous flooring system. Maintenance Data: For maintenance manuals. F. Samples: Submit one sample of coating, indicating coating applied on horizontal surfaces. Sample shall illustrate transition from Resinous Flooring system. Provide sample which is a true representation of

1.3 QUALITY ASSURANCE A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for Engage an installer who is certified in writing by resinous flooring manufacturer as qualified to apply Installer Letter of Certification: Installer to provide letter stating that they have been in business r at least 10 years and listing 5 projects in the last 2 years of similar scope. For each project provide: project name, location, date of installation, contact information, size of project, and manufacturer of Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening

DELIVERY, STORAGE AND HANDFLING A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storage and mixing with other components.

materials, including patching and fill material, joint seglant, and repair materials, of type and from source

agents, grouting coats, and topcoats, from single source from single manufacturer.

Maintain containers in clean condition, free of foreign materials and residue Remove rags and waste from storage areas daily. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for

substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinou Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.
C. Close spaces to traffic during resinous flooring application and for not less than 24 hours after application unless manufacturer recommends a longer period

MANUFACTURERS Manufacturers: Subject to compliance with requirements, provide products by one of the following: The Sherwin-Williams Company General Polymers Brand or equal

2.2 MATERIALS The General Polymers FasTop S Slurry System, URETHANE SLURRY FLOORING SYSTEM with Cove, as manufactured by Sherwin-Williams, consists of 4040FasTop Urethane Primer (Cove), 4060 FasTop Cove Base Binder Resin, and 5055 FasTop Cove Base Aggregate (Cove), 4050 FasTop S Binder Resin, with 5050 FasTop S Aggregate as slurry, 5310-8 Dry Silica Sand (20-40 Mesh) for broadcast and 3745 elf—Leveling Epoxy or 4844 PAace—Cote as an optional seal coat at a ¼"nominal. B. VOC Content of Resinous Flooring: Provide resinous flooring systems, for use inside the weatherproofing system, that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24)].

Resinous Flooring: 100 g/L. High-Performance Resinous Flooring a. Resinous Flooring: Abrasion—, impact— and chemical—resistant, high—performance, resin—based, monolithic floor surfacing designed to produce a seamless floor. Color and Pattern: As selected from manufactures standard.

Slip Resistance: Provide slip resistant finish in areas indicated 3.0 EXECUTION

Inspection: Prior to commencing Work, thoroughly examine all underlying and adjoining work, surfaces and conditions upon which Work is in any way dependent for perfect results. Report all conditions which affect Work. No "waiver of responsibility" for incomplete, inadequate or defective underlaying and adjoining work, surfaces and conditions will be considered, unless notice of such unsatisfactory conditions has been filed and gareed to in writing before Work begins. Commencement o k constitutes acceptance of surfaces. Test and report for moisture level in substrate to verify compliance with manufacturer's requirements. Do not proceed unless acceptable test results are achieve Surface Preparation: Remove all surface contamination, loose or weakly adherent particles, laitance, grease, oil, curing compounds, paint, dust and debris by blast track method or approved mechanical means (acid etch not allowed). If surface is questionable try a test patch. Create a minimum surface profile for the system specified in accordance with the methods described in ICRI No. 03732 to achieve

Thin and medium films, 10 to 40 mils CSP-3 to CSP-5 CSP-4 to CSP-6 Self-leveling mortars, to 3/16" Mortars and laminates, to 1/4" or moreCSP-5 to CSP-9 All applicators and all other personnel in the area of the RF installation shall take all required and

Thin film, to 10 mils

Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions by using the following methods as recommended by the resinous flooring manufacturer. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with application of resinous flooring only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. or that required in manufacturers instructions of slab area in 24 hours. Perform plastic sheet test, ASTM D 4263. Proceed with application only after testing indicates absence of moisture in substrates. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have a percent relative humidity level measurement as noted acceptable by resinous Alkalinity and Adhesion Testing: Verify that concrete substrates have pH within acceptable range.

Řesinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions Treat control joints and other nonmoving substrate cracks to prevent cracks from

reflecting through resinous flooring according to manufacturer's written instructions. Install resinous floor over properly prepared concrete surface in strict accordance with the manufacturer's directions.

Install the primer and/or base coats over thoroughly cleaned and prepared concrete. Install topcoat over flooring after excess aggregate has been removed.

Maintain a slab temperature of 60°F to 80°F for 24 hours minimum before applying floor topping. Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated. i. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion. ii. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes. ii. At substrate expansion and isolation joints, comply with resinous looring manufacturer's written 3. Sealant: Saw cut resinous floor topping at expansion joints in concrete slab. Fill sawcuts with sealant prior to final seal coat application. Follow manufacturer's written recommendations.

Apply primer over prepared substrate at manufacturer's recommended spreading rate. Slip Resistant Finish: Provide grit for slip resistance. Apply topcoats in number indicated for flooring system and at spreading rates recommended in

Cleaning: Upon completion of the Work, clean up and remove from the premises surplus materials, cols, appliances, empty cans, cartons and rubbish resulting from the Work. Clean off all spatterings a drippings, and all resulting stains. Protection: Protect Work in accordance with manufacturer's directions from damage and wear during the remainder of the construction period. Use protective methods and materials, including temporary covering, recommended in writing by resinous flooring manufacturer.

3. Contractor shall insure that coating is protected from any traffic until it is fully cured to the satisfaction of the coating manufacturer

SECTION 10105 - BLUE DISK POP DISPLAY BOARDS

PART 1 - GENERAL 1.1. DESCRIPTION A. Section Includes:
1. Blue Disk POP Display Boards PART 2 - PRODUCTS 2.1 MANUFACTURER

Provide products as manufactured by:

1. MDI, 918-388-4996, fax 918-663-4738

2. Ordermatic, Inc., 405-672-1487, fax 405-670-1740 SECTION 10106 - MENU BOARDS & ORDER STATIONS

PART 1 - GENERAL 1.1. DESCRIPTION A. Section Includes: Menu Order Stations
 Drive—Thru Boards

PART 2 - PRODUCTS 2.1 MANUFACTURER

Provide products as manufactured or supplied by:
 Ordermatic, Inc., 405-672-1487, fax 405-670-1740

15 Ninth Avenue North, Hopkins, MN 55343 Phone: 952.941.8660/ www.wilkusarch.com



1012 SOUTH COOPER STREE GREENTOWN, IN 46901

GEAUX SONIC LLC

PROJECT INFORMATION:

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HIS DOCUMENT IS CERTIFIED BY MICHAEL J. WILKUS,



SIGNATURE MICHAEL J. WILKUS ARCHITEC LICENSE NUMBER: AR00870040

EXPIRATION DATE: 12-31-16

03-18-16

DATE

PROJECT NO.: 2015-1674 DRAWN BY: J.A.K. CHECKED BY: M.J.W. DATE: PERMIT SET 03-18-16

REVISION: DATE:

PROJECT LOCATION:

KOKOMO, IN

SHEET NUMBER / TITLE:

SPECIFICATIONS