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June 06, 2023

ADDENDUM 2

TO THE DRAWINGS, SPECIFICATIONS AND CONTRACT DOCUMENTS FOR:

EARLY CHILDHOOD RENOVATION PHASE 2

FOR

Winton Woods City Schools
825 Waycross Road, Suite A,
Cincinnati, OH 45240

Comm. No. 2021091.02

TO ALL BIDDERS:

This Addendum supplements, amends and takes precedence over the original Drawings and Specifications, and shall be taken into account when preparing proposals, and shall become part of the Contract Documents. Receipt of this Addendum must be entered on the bidder's Bid Form. Bidder is cautioned to read the entire addendum and to check that all pages of the Addendum have been included in the Bidder's copy of the Addendum.

QUESTIONS & ANSWERS

QUESTION 1 *The Pre-bid Meeting Agenda says, "Hazardous materials are not expected to be present due to prior abatement work.". However, during the pre-bid sitewalk, it was noted that there is believed to be asbestos that will need to be abated during this phase of the project. Please confirm if there is abatement work required during this phase; the location; and anticipated quantities, if any.*

A. An abatement specification is included with this addendum. The asbestos containing material is found in the drywall compound throughout the building. Work that will encounter this drywall compound includes where bulkheads are being demolished to create Family/ELA spaces that open to the corridor including new rooms numbered 107A, 116, 130A, and 141. If alternate #4 is accepted, it is expected that this drywall compound will also be encountered during demolition of the corridor lockers and installation of the new replacement casework.

QUESTION 2 *Per Alternate No.9, we are to provide pricing for playground equipment indicated on the drawings; however, there is no information on the drawings nor a specification section. Please provide drawings/specifications required for bidding purposes.*

A. Playground information is included in this addenda. Please see attached.

QUESTION 3 *Per note A87 on drawing A101A, it states, "Alternate #8. Provide bullet resistant film on all glazing this opening."; however, there is no specfication section on the physical requirments. Please provide further information on the physical requirements.*

A. Specification section 08 87 16 Safety and Security Film was issued in the specifications. Drawing notes have been updated to match verbiage.

QUESTION 4 *Per drawing A180, the details are calling out for intumescent paint on all exposed sides of structural columns; however, there is no further information as to what ratings would be required. Please provide further information as to what is required for the intumescent paint scope.*

A. Specification section has been added for intumescent paint. All intumescent paint to have a 1-hr rating.

QUESTION 5 *The Equipment Schedule on drawing FS101 indicates under the "Responsibility" columns for who is to furnish and who is to install. Per these columns, all the equipment is furnished by "O.S. - Owner Supplied" and installed by "G.C. - General Contractor". This is understood for items 12, 15, and 16 as per the "Notes and Comments" column, they are stated to be existing equipment; however, items 17 and 18 do not have this note. Please confirm if the Hood System (exhaust fan / make-up air fan & heat) and Convection Steamer are to be owner supplied and contractor installed.*

A. Hood and convection steamer to be contractor provided and installed.

QUESTION 6 *On drawings AS101B, AS102B, and AS103B there are various windows that are to receive roller window shades; however, there are no sizes noted for these windows. Please provide the sizes for the windows that are to receive both manual (A31 - ALT #5A) and motorized (A27 - ALT #B) roller window shades.*

A. All windows receiving manual roller shades are approximately 6'-8" L x 5'-0" W. All windows receiving motorized window shades are approximately 6'-6" H X 3'-9" L. All dimensions must be field-verified.

QUESTION 7 *Per the "Sign Type Legend" on drawing A000, sign types A, B, & C are noted to be 8" wide by 5" tall. Per the "Signage Details" on drawing A000, sign types A, B, & C are to receive a 1 7/8" wide decorative band; however, it is unclear if the 1 7/8" wide decorative band is to be included in the 8" width. Please confirm if the overall 8" width for sign types A, B, & C includes the 1 7/8" wide decorative band.*

A. The decorative band is to be included in the sign size. The drawing has been updated accordingly, see attached.

QUESTION 8 *The monument site signage (Alternate #03) requires an "Internally Illuminated Double-Sided Directory" per drawing C801; however, there is not a lot of information on this directory. Please provide more information/specification for the internally illuminated double-sided directory.*

A. Specification section has been added. Please see attached.

QUESTION 9 *Per Addendum 01, the answer for question 1 states to refer to detail 13/A641 the wall elevation for the wall tile pattern; however, detail 13/A641 does not show wall tile type "WT-2" being used. Please confirm that "WT-2" is not to be utilized on this project.directory.*

A. There was an issue with how this drawing printed. WT-2 has been updated in detail 13/A641 and is included in this addenda, see attached.

QUESTION 10 *There are a lot of fire rated dutch doors, but the hardware is not for a dutch door or a fire rated dutch door. I have estimated as written but something will need to change.*

A. Dutch doors are for the preschool classroom individual restrooms. None of these doors are required to be fire rated.

QUESTION 11 *Openings 143A and 143B do not have any hardware shown*

A. Door hardware was updated in Addendum 1.

QUESTION 12 *14 openings call for a 2'2" sidelite on the schedule but show elevation of a 3 sided frame. I do not have the sidelites covered as I don't want to price you out of the job. Let me know if you want it changed.*

A. Please include sidelite on doors scheduled to have sidelites. Sheet A010 has been updated to include updated door schedule and frame type for those doors.

QUESTION 13 *For partitions I am not sure which restrooms are getting redone. It looks like some are not getting touched. Can you confirm? Attached is my take off.*

A. Existing restrooms fixtures and partitions to remain unaltered.

QUESTION 14 *For accessories, I don't see it specifically calling out some of the other ones like the janitors closet racks, baby changing station, sanitary napkin dispenser, etc. I can include 1 of each to cover or leave it off.*

A. Sheet A150 has been updated to include diaper changing stations. Sanitary napkin disposal can be found on the "Toilet and Bath Accessory Types" on sheet A150. Sanitary napkin dispenser is not needed for this project. Please include pricing for one janitor's closet rack per janitor's closet.

QUESTION 15 *The door schedule on drawing A010 does not call out a door type or material for Opening 160. As this is an existing aluminum frame with storefront "AC" type hardware, it is assumed to be an Aluminum Full Glass Door. Please confirm this opening is to be an Aluminum Full Glass Door.*

A. Yes, if the alternate is accepted, door 160 is to be an aluminum full glass door with infill panel above. Opening to be verified in field.



QUESTION 16 *The door schedule on drawing A010 calls out frame type "HM" for Openings 171T and 175T; however, this frame type does not exist on elevations of Frame Types. Please provide the frame type(s) for Openings 171T and 175T.*

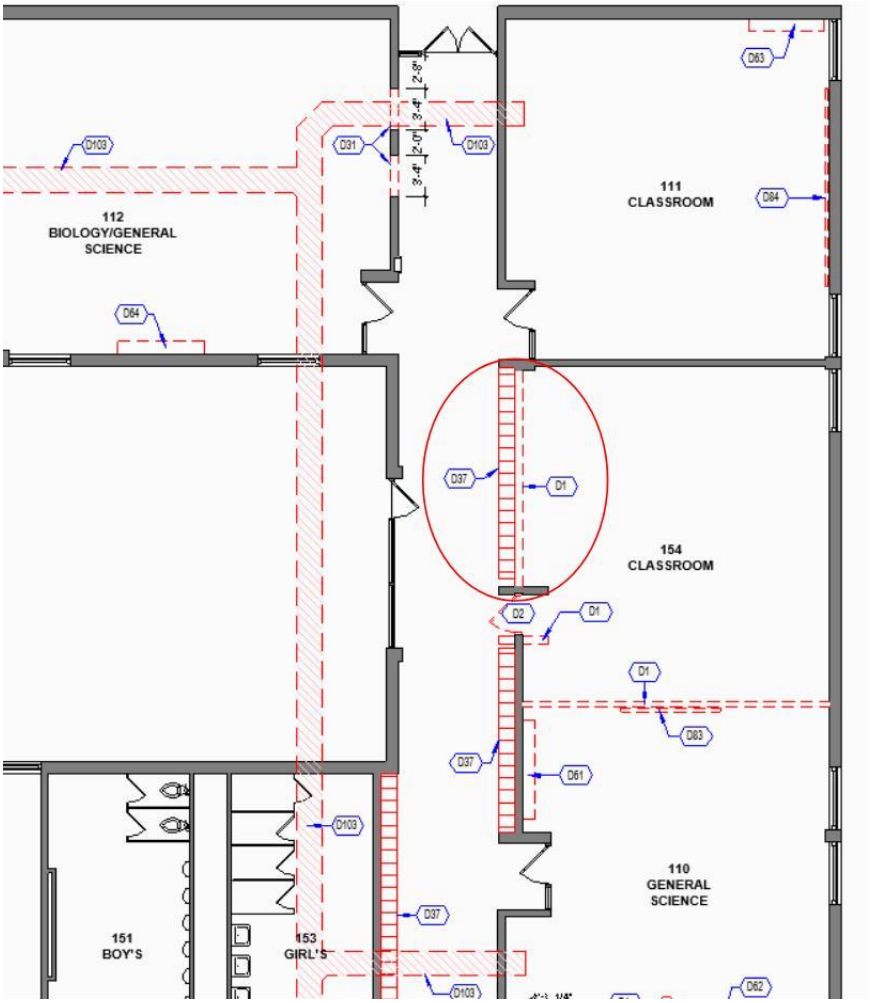
A. Frame type for both doors to be Type 2. The door schedule has been updated. Please see attached

QUESTION 17 *There is no indication on the contract drawings indicating any parking lot stiping. Please confirm that parking lot stiping is not required for this contract.*

A. Parking lot striping is to be included. Restripe parking stalls only.

QUESTION 18 *D403 in addendum 1 changed 4/D403, which is referenced by note D43 on that same page. D105 says to remove the lockers in the base bid, and I guess soffits as well in base bid? But no new soffits are shown, just patching.*

A. That is correct. Lockers and all soffits to be removed as base bid to allow for demolition of wall for larger opening. See sketch below for lockers to be removed in base bid. Reference sheet A103A for additional work in that area.

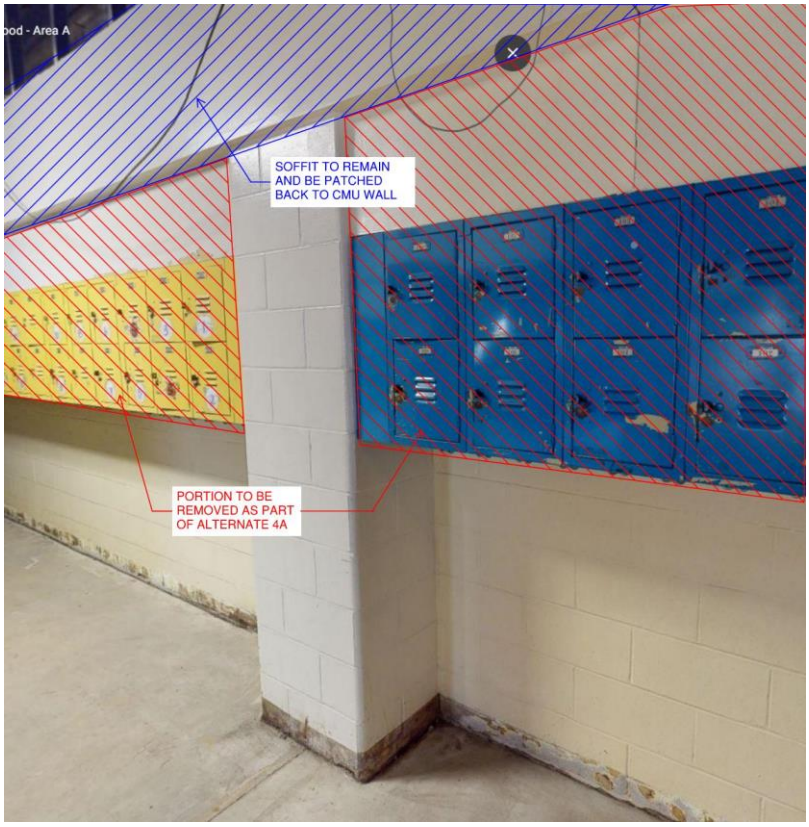


QUESTION 19 *D103 in base bid drawings note 37 state alternate 4A remove existing lockers, which remain unchanged in addendum.*

A. Alternate 4A includes the demolition of lockers and associated lower soffit. Addendum 1 changed one set of lockers to be removed in base bid to allow for demo of wall near 154 Classroom and updated detail 4/D403 to show extents of that demo. Reference sheet A103A for additional work in that area.

QUESTION 20 *1/A401 states that soffits are to remain and be patched as needed; which remained unchanged in addendum.*

A. If alternate 4A is accepted and lockers in corridors are demolished, the lower associated soffit will be removed with the lockers. The upper soffit will remain and patched as required to create an enclosed soffit back to masonry wall. See sketch below of existing condition and intent on corridor soffits.



QUESTION 21 *Alternate 4A is still listed in addendum 1 as removing lockers, patching walls and installing cubbies.*

A. That is correct. Alternate 4A includes the demolition of corridor lockers and associated lower soffits. Select locker and soffit demolition in Corridor 201 adjacent to room 154 Classroom to occur in base bid to allow for work in that area to occur as a base bid condition. This was updated in Addendum 1. Reference above sketch and sheet A103A for work to occur in that area.

QUESTION 22 *Confused as to scope and what is in base bid/alternate 4A. Please clarify.*

A. Alternate 4A includes the demolition of corridor lockers and associated lower soffits in Areas A, B, and C. Select locker and soffit demolition in Corridor 201 adjacent to rooms 154 Classroom and 110 General Science to occur in base bid to allow for work in that area to occur as a base bid condition. This was updated in Addendum 1. Reference sheet A103A for work to occur in that area.

QUESTION 23 *On the room signage, the drawings indicate sign types A, B, and C have a band detail. I wanted to confirm that this band detail is located on the left of each sign and will take up 1 7/8" of the 8" sign width. I didn't see the band pictured on the "sign type legend" so I wanted to confirm.*

A. The decorative band is to be included in the sign size. The drawing has been updated accordingly, please see attached.

QUESTION 24 *What material should be used for the dimensional letters on the monument sign?*

A. This information has been included in the added spec section. Please see attached.

QUESTION 25 *There Is a specification for Fire Extinguishers & Cabinets, and both are identified on the code plan. Are there any fire extinguishers and Cabinets that are existing to remain, or is everything supposed to be replaced/new.*

A. Existing fire extinguisher cabinets to remain unaltered. Select locations to receive new fire extinguisher cabinets for a total of 9 new semi recessed fire extinguisher cabinets. Contractor responsible for the demolition required for the installation of these cabinets. Updated plans included to show the location of the semi-recesesd cabinets.

QUESTION 26 *The asbestos survey is not included in the bid documents for phase 2, but was included in the previous phase, which identified the chalkboard adhesive to contain asbestos materials. There are still chalkboards that exist and are shown to be removed. Will these be removed by the previous abatement contractor or will this be abated by the phase 2 contactor?*

A. Previous construction phases have found the mastic behind the chalkboard to be non-asbestos containing. Once demolition of a chalkboard has begun, we can recheck that this is correct. Asbestos information is included in this addendum. Please see attached.

QUESTION 27 *On the demolition drawings, slab on grade trench locations are shown where the masonry walls are to remain, which may also have below slab foundations. Are the walls /foundation to also be removed?*

A. Supply piping in trenches will need to go under or through existing foundations. If existing foundations are encountered during trenching, piping will need to go under or through foundations.

QUESTION 28 *There are slab on grade trenches to be removed in area A that do not extend into area B or C.*

A. The demolition of trenches is to allow for new preschool restrooms and associated plumbing. Please reference Plumbing drawings for locations of all underground work required.

QUESTION 29 *Do you have any pictures of the shelfing that gets painted on A101B, 102B, 103B?*

A. The shelving varies from room to room, but generally is similar to the image below.



QUESTION 30 *The print have a note about painting steel lintel for any new windows the get replaced but I haven't found an window schedule, are there any windows being replaced?*

A. All windows were replaced in the previous phase of construction. No windows will be replaced.

QUESTION 31 *On A180 is calls out for the steel columns to be painted with intumescent paint, but there isn't any specs for intumescent paint, can you get some specs?*

A. The spec section has been included with this addendum. Please see attached.

QUESTION 32 *There is also a digital wallcovering that has to be installed can you get the digital picture so we can get it to the manufacturer so we can get a price for the wallcovering.*

A. The wallcoverings will be similar in size to detail 8/A641. Please use dimensions on detail for pricing. Vector file will be provided prior to fabrication.

SPECIFICATION ITEM

ITEM 1 – Specification Section 078123, Intumescent Mastic Fireproofing:

New specification Section.

ITEM 2 – Specification Section 101300, Ground Signs:

New specification Section.

ITEM 3 – Asbestos-Containing Materials Abatement Specification:

New specification Section.

ITEM 4 – Specification Section 101423, Panel Signage

Section 2.2.A: Add Ellet Sign Company as a listed manufacturer.

ITEM 5 – Specification Section 116800, Playground Equipment

New specification Section.

ITEM 6 – Specification Section 123216, Plastic-Laminate-Faced Casework

Section 2.2: Add Southern Cabinetry (SCI) as a listed manufacturer.

ITEM 7 – Specification Section 321816, Playground Protective Surfacing

New specification Section.

ITEM 8 – Specification Section 323300, Site Furnishings

New specification Section.

DRAWING ITEMS

ITEM 1 – Drawing Sheet G000:

Revision. Shows list of sheets revised in Addendum 1.

ITEM 2 – Drawing Sheet C100:

Revision.

ITEM 3 – Drawing Sheet C110:

Revision.

ITEM 4 – Drawing Sheet C120:

Revision. Demolition near playground updated.

ITEM 5 – Drawing Sheet C130:

Revision. Updates to location of underdrain.

ITEM 6 – Drawing Sheet C140:

Revision.

ITEM 7 – Drawing Sheet L100:

New sheet.

ITEM 8 – Drawing Sheet L101:

New sheet.

ITEM 9 – Drawing Sheet A000:

Revision. Sign Mounting Heights detail added.

ITEM 10 – Drawing Sheet A010:

Revision. Door schedule updated and door frame types updated to include doors with sidelites.

ITEM 11 – Drawing Sheet A101A:

Revision. Keynote A87 updated. New fire extinguisher locations indicated.

ITEM 12 – Drawing Sheet A103A:

Revision. New fire extinguisher locations indicated.

ITEM 13 – Drawing Sheet A150:

Revision. Bath accessories updated to include diaper-changing station.

ITEM 14 – Drawing Sheet A641:

Revision. Detail 13/A641 updated.

ITEM 15 – Drawing Sheet E000:

Revision. Lighting fixture schedule updated.

End of Addendum 2 items – See attached.

SECTION 07 81 23 - INTUMESCENT MASTIC FIREPROOFING

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. Section includes mastic and intumescent fire-resistive coatings (MIFRC).

B. Related Requirements:
1. Division 07 Section "Applied Fireproofing" for sprayed fire-resistive materials (SFRM).

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
1. Review products, design ratings, restrained and unrestrained conditions, thicknesses, and other performance requirements.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Structural framing plans indicating the following:
1. Extent of fireproofing for each construction and fire-resistance rating.
2. Applicable fire-resistance design designations of a qualified testing and inspecting agency acceptable to authorities having jurisdiction.
3. Minimum fireproofing thicknesses needed to achieve required fire-resistance rating of each structural component and assembly.
4. Treatment of fireproofing after application.

C. Samples: For each exposed product and for each color and texture specified, 4 inches square in size.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and testing agency.

B. Product Certificates: For each type of fireproofing.

C. Evaluation Reports: For fireproofing, from ICC-ES.

D. Field quality-control reports.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: A firm or individual certified, licensed, or otherwise qualified by fireproofing manufacturer as experienced and with sufficient trained staff to install manufacturer's products according to specified requirements. A manufacturer's willingness to sell it’s fireproofing to Contractor or to an installer engaged by Contractor does not in itself confer qualification on the buyer.

1.7 FIELD CONDITIONS

A. Environmental Limitations: Do not apply fireproofing when ambient or substrate temperature is 50 deg F or lower unless temporary protection and heat are provided to maintain temperature at or above this level for 24 hours before, during, and for 24 hours after product application.

B. Ventilation: Ventilate building spaces during and after application of fireproofing, providing complete air exchanges according to manufacturer's written instructions. Use natural means or, if they are inadequate, forced-air circulation until fireproofing dries thoroughly.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. Assemblies: Provide fireproofing, including auxiliary materials, according to requirements of each fire-resistance design and manufacturer's written instructions.

B. Source Limitations: Obtain fireproofing from single source.

C. Fire-Resistance Design: Indicated on Drawings, tested according to ASTM E 119 or UL 263 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Steel members are to be considered unrestrained unless specifically noted otherwise.

D. Asbestos: Provide products containing no detectable asbestos.

2.2 MASTIC AND INTUMESCENT FIRE-RESISTIVE COATINGS

A. MIFRC Manufacturer's standard, factory-mixed formulation or factory-mixed, multicomponent system consisting of intumescent base coat and topcoat, and complying with indicated fire-resistance design.
1. Products: Subject to compliance with requirements, provide the following:
a. Albi Fireproofing; Albi Clad 800 (exterior use) and Albi Clad TF (interior use).
b. Carboline Company, subsidiary of RPM International, Fireproofing Products Div.; Nullifire S605 (exterior use) and A/D Firefilm III (interior use).
c. Isolatek International; Cafco Sprayfilm WB4 (exterior use) and Cafco Sprayfilm WB3 (interior use).
2. Application: Designated for "exterior" and "conditioned interior space purpose" use by a qualified testing agency acceptable to authorities having jurisdiction.
3. Thickness: As required for fire-resistance design indicated, measured according to requirements of fire-resistance design.
4. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
a. Flame-Spread Index: 25 or less.
b. Smoke-Developed Index: 50 or less.
5. Hardness: Not less than 65, Type D durometer, according to ASTM D 2240.
6. Finish: As selected by Architect from manufacturer's standard finishes.
a. Color and Gloss: Custom color as selected by Architect.

2.3 AUXILIARY MATERIALS

A. General: Provide auxiliary materials that are compatible with fireproofing and substrates and are approved by UL or another testing and inspecting agency acceptable to authorities having jurisdiction for use in fire-resistance designs indicated.

B. Substrate Primers: Primers approved by fireproofing manufacturer and complying with required fire-resistance design by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

C. Reinforcing Fabric: Glass- or carbon-fiber fabric of type, weight, and form required to comply with fire-resistance designs indicated; approved and provided by fireproofing manufacturer.

D. Reinforcing Mesh: Metallic mesh reinforcement of type, weight, and form required to comply with fire-resistance design indicated; approved and provided by fireproofing manufacturer. Include pins and attachment.

E. Topcoat: Suitable for application over applied fireproofing; of type recommended in writing by fireproofing manufacturer for each fire-resistance design.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for substrates and other conditions affecting performance of the Work and according to each fire-resistance design. Verify compliance with the following:
1. Substrates are free of dirt, oil, grease, release agents, rolling compounds, mill scale, loose scale, incompatible primers, paints, and encapsulants, or other foreign substances capable of impairing bond of fireproofing with substrates under conditions of normal use or fire exposure.
2. Objects penetrating fireproofing, including clips, hangers, support sleeves, and similar items, are securely attached to substrates.
3. Substrates receiving fireproofing are not obstructed by ducts, piping, equipment, or other suspended construction that will interfere with fireproofing application.

B. Conduct tests according to fireproofing manufacturer's written recommendations to verify that substrates are free of substances capable of interfering with bond.

C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Cover other work subject to damage from fallout or overspray of fireproofing materials during application.

B. Clean substrates of substances that could impair bond of fireproofing.

C. Prime substrates where included in fire-resistance design and where recommended in writing by fireproofing manufacturer unless compatible shop primer has been applied and is in satisfactory condition to receive fireproofing.

D. For applications visible on completion of Project, repair substrates to remove surface imperfections that could affect uniformity of texture and thickness in finished surface of fireproofing. Remove minor projections and fill voids that would telegraph through fire-resistive products after application.

3.3 APPLICATION

A. Construct fireproofing assemblies that are identical to fire-resistance design indicated and products as specified, tested, and substantiated by test reports; for thickness, primers, topcoats, finishing, and other materials and procedures affecting fireproofing work.

B. Comply with fireproofing manufacturer's written instructions for mixing materials, application procedures, and types of equipment used to mix, convey, and apply fireproofing; as applicable to particular conditions of installation and as required to achieve fire-resistance ratings indicated.

C. Coordinate application of fireproofing with other construction to minimize need to cut or remove fireproofing.
1. Do not begin applying fireproofing until clips, hangers, supports, sleeves, and other items penetrating fireproofing are in place.
2. Defer installing ducts, piping, and other items that would interfere with applying fireproofing until application of fireproofing is completed.

D. Install auxiliary materials as required, as detailed, and according to fire-resistance design and fireproofing manufacturer's written recommendations for conditions of exposure and intended use. For auxiliary materials, use attachment and anchorage devices of type recommended in writing by fireproofing manufacturer.

E. Spray apply fireproofing to maximum extent possible. Following the spraying operation in each area, complete the coverage by trowel application or other placement method recommended in writing by fireproofing manufacturer.

F. Extend fireproofing in full thickness over entire area of each substrate to be protected.

G. Install body of fireproofing in a single course unless otherwise recommended in writing by fireproofing manufacturer.

H. Provide a uniform finish complying with description indicated for each type of fireproofing material and matching finish approved for required mockups.

I. Cure fireproofing according to fireproofing manufacturer's written recommendations.

J. Do not install enclosing or concealing construction until after fireproofing has been applied, inspected, and tested and corrections have been made to deficient applications.

K. Finishes: Where indicated, apply fireproofing to produce the following finishes:
1. Manufacturer's Standard Finishes: Finish according to manufacturer's written instructions for each finish selected.
2. Rolled, Spray-Textured Finish: Even finish produced by rolling spray-applied finish with a damp paint roller to remove drippings and excessive roughness.

3.4 FIELD QUALITY CONTROL

A. Special Inspections: Architect will engage a qualified special inspector to perform the following special inspections:
1. Test and inspect as required by the IBC, 1704.11.

B. Perform the tests and inspections of completed Work in successive stages. Do not proceed with application of fireproofing for the next area until test results for previously completed applications of fireproofing show compliance with requirements. Tested values must equal or exceed values as specified and as indicated and required for approved fire-resistance design.

C. Fireproofing will be considered defective if it does not pass tests and inspections.
1. Remove and replace fireproofing that does not pass tests and inspections, and retest.
2. Apply additional fireproofing, per manufacturer's written instructions, where test results indicate insufficient thickness, and retest.

D. Prepare test and inspection reports.

3.5 CLEANING, PROTECTING, AND REPAIRING

A. Cleaning: Immediately after completing spraying operations in each containable area of Project, remove material overspray and fallout from surfaces of other construction and clean exposed surfaces to remove evidence of soiling.

B. Protect fireproofing, according to advice of manufacturer and Installer, from damage resulting from construction operations or other causes, so fireproofing will be without damage or deterioration at time of Substantial Completion.

C. As installation of other construction proceeds, inspect fireproofing and repair damaged areas and fireproofing removed due to work of other trades.

D. Repair fireproofing damaged by other work before concealing it with other construction.

E. Repair fireproofing by reapplying it using same method as original installation or using manufacturer's recommended trowel-applied product.

END OF SECTION 07 81 23

SECTION 10 1300 – GROUND SIGNS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes the following:

1. Illuminated, changeable-letter, double-sided site ground sign.

B. Related Sections include the following:

1. Division 04 Section “Unit Masonry” for masonry structure supporting the ground sign.
2. Division 26 Sections for electrical service and connections for illuminated ground signs.

1.3 PERFORMANCE REQUIREMENTS

A. Structural Performance: Provide exterior directories capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:

1. Wind Loads: Determine loads based on the following minimum design wind pressures:

a. Uniform pressure of 20 lbf/sq. ft. acting inward or outward.

B. Thermal Movements: Provide ground sign that allows for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

1.4 SUBMITTALS

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for directories.

B. Font selector showing all available changeable letterboard fonts for confirmation of style specified. Provide complete alphabet in upper and lower case, symbols available, and numerics for each style.

C. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.

1. Provide text layout for permanent header of each sign in the required typestyles at least half size.

    a. Provide full-size templates for cutout characters after initial acceptable ship drawing review.

2. Show locations of electrical service connections.
3. Show lighting fixture types, quantities, locations, illumination output and loads. Coordinate with circuit type and capacity indicated in the Electrical Site drawings.
4. Wiring Diagrams: Power, signal, and control wiring.

D. Samples for Initial Selection: Manufacturer's color charts consisting of actual units or sections of units showing the full range of colors available for the following:

1. Aluminum.
2. Acrylic or polycarbonate header face sheet and letter sheet.
3. Changeable letterboard mounting sheet
4. For protective cover panels include colorless sheet with visible light transmittance of 92 percent measured per ASTM D 1003.

E. Samples for Verification: For each of the following products and for the full range of color, texture, and sign material indicated, of sizes indicated:

1. Aluminum: For each form, finish, and color, on 6-inch- long sections of extrusions and squares of sheet at least 4 by 4 inches.
2. Acrylic or Polycarbonate Sheet: 8 by 10 inches for each color required.
3. Include a full- or half-size representative sample of cutout illuminated character required. Show graphic style, colors, finishes, and typestyles.
4. Letterboards: Letterboard mounting sheet large enough to test-install 4-inch letter but not less than 8-1/2 by 11 inches. Include one panel for each type, color, and texture required.
5. Letters: Full-size Samples of changeable letters of each size specified including upper-case 4-inch letter.

F. Qualification Data: For Installer and fabricator.

G. Maintenance Data: For illuminated signs to include in maintenance manuals.

H. Lettering and symbols catalog to be included in Operations Manual indicating total line of lettering fonts, numerals and symbols available for use in this letterboard system and address, telephone and e-mail of source for purchase.

I. Warranty: Special warranty specified in this Section.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An authorized representative of the manufacturer for installation and maintenance of units required for this Project.

B. Source Limitations: Obtain directories through one source from a single manufacturer.

C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify recessed openings by field measurements before fabrication and indicate measurements on Shop Drawings.

B. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit installation of signs to be performed according to manufacturers' written instructions and warranty requirements.

1.7 COORDINATION

A. Coordinate installation of anchorage for directories. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, masonry inserts, anchor bolts, and items with integral anchors that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Structural failures of cabinets, access doors or frames.
b. Faulty operation of hardware or illumination system.
c. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

2. Warranty Period: Five years from date of Contract Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 MATERIALS

A. Aluminum: Alloy and temper recommended by aluminum producer and manufacturer for type of use and finish indicated, and as follows:

1. Sheet: ASTM B 209.
2. Extruded Shapes: ASTM B 221, Alloy 6063.

B. Clear Acrylic Sheet: ASTM D 4802, Category A-1 (cell-cast sheet), Type UVA (UV absorbing).with Finish 1 (smooth or polished), 6 mm thick, unless otherwise indicated.

C. Translucent Acrylic Sheet: ASTM D 4802, Category A-1 (cell-cast sheet), with Finish 1 (smooth or polished), and 6 mm thick unless otherwise indicated; white colored sheet of density required to produce uniform brightness and minimum halation effects.

D. Opaque Acrylic Sheet: ASTM D 4802, Category A-1 (cell-cast sheet), with Finish 1 (smooth or polished), and 6 mm thick unless otherwise indicated; colors as indicated.

E. Polycarbonate Sheet: Of thickness indicated, manufactured by extrusion process, coated on both surfaces with abrasion-resistant coating:

1. Impact Resistance: 16 ft-lbf/in. per ASTM D 256, Method A.
2. Tensile Strength: 9000 lbf/sq. in. per ASTM D 638.
3. Flexural Modulus of Elasticity: 340,000 lbf/sq. in. per ASTM D 790.
4. Heat Deflection: 265 deg F (at 264 lbf/sq. in. per ASTM D 648.
5. Abrasion Resistance: 1.5 percent maximum haze increase for 100 revolutions of a Taber abraser with a load of 500 g per ASTM D 1044.

F. Fasteners: Provide stainless-steel or aluminum screws, bolts, and other fastening devices made for exterior applications. Provide types, sizes, and lengths to suit installation conditions. Use security fasteners where exposed to view.

2.3 HEADER PANEL SECTION

A. Hollow-Box-Type Panel Signs: Frame message panel with formed aluminum sheet or extruded hollow-box-type frame. Close top and bottom edges of panels with manufacturer's standard welded seams or extrusions. Provide access for servicing internal lighting

1. Header Panel Materials:

a. Aluminum Sheet: 0.125 inch thick.

1) Panel Finish: Baked enamel.
2) Color: Match Architect’s Sample

2. Hollow-Box Depth: As indicated; and as required to match changeable letterboard section.

a. Corner Condition: Square.
b. Finish and color: Baked enamel, match sign panel face.

3. Mounting: Between masonry piers

B. Header Panel: Illuminated; cut-out letters with translucent, acrylic sheet backing panel set within overall perimeter frame; with matching frame that separates header panel from letterboard. Finish panel after completing letter cutouts

1. Graphic Content and Style: Provide header panel copy as indicated on the drawings.

2.4 CHANGEABLE-LETTER BOARD SECTION

A. Enclosed-Face, Internally Illuminated, Changeable-Letter Directory: Factory-fabricated unit consisting of 2-inch- deep perimeter frame with fixed letterboard on back inside surface and with glazed doors. Provide (2) single-faced units mounted back-to-back or (1) double-faced unit. Provide internal space required for back-lighting

1. Manufacturers:

a. AARCO Products, Inc.; Marq Two (8” depth).
b. Nelson-Harkins Industries; 245-I Series.
c. Poblocki & Sons; Model-F.
d. Tablet & Ticket Co. (The); 950-E Series.

2. Aluminum Perimeter Frame: Extruded aluminum, with weather-resistant backing for exterior use.

a. Perimeter Frame Profile: Square.
b. Perimeter Frame Corners: Square.
c. Finish: Color anodic.
d. Color: As selected by Architect from full range of industry colors and color densities.

3. Glazed, Hinged Doors: Clear acrylic or polycarbonate sheet set in door frame equipped with full-height continuous hinge and cylinder lock with two keys. Provide factory-applied weather stripping on doors for exterior use.

a. Door Frame: Same material and finish as perimeter frame.
b. Door Operation: Door to open a minimum of 80 degrees.
c. Number of Doors: One, hinged at top, with locks.

4. Letterboard: Manufacturer's standard panel material, with grooves spaced at 1/4 inch o.c. to receive changeable letters.

a. Color: As selected by Architect from full range of industry colors.

5. Letters: Molded plastic with tabs for engaging grooves in letterboard. Provide manufacturer's standard assortment of not less than 600 characters for each size, style, color, and case required; include letters, numbers, and characters. Package letters in compartmentalized carrying box.

a. Height: Either 4 or 6 inches to top of capitals as selected at submittals.
b. Style: Arial (Subject to final approval, see “submittals” above.)
c. Color: To be selected from “Submittals” options.
d. Case: All capitals.

2.5 ILLUMINATION SYSTEM

1. Illumination System: Concealed lighting system consisting of fluorescent-strip fixtures. Include lamps and internal wiring with single, concealed electrical connection to building system. Coordinate electrical characteristics with power supply provided.

a. Ballasts: Exterior, low-temperature, high-power-factor, low-energy, fluorescent lamp ballasts that comply with CBMA standards and carry its label

2. Make provisions for servicing and concealing connections to building electrical system.
3. Make provision for servicing and replacing lamps without disassembly

2.6 FABRICATION

A. Fabricate to requirements indicated for dimensions, design, and thickness and finish of materials. Use metals and shapes of thickness and reinforcing to produce flat surfaces, free of oil canning, and to impart strength for size, design, and application indicated.

B. Fabricate cabinets and door frames with reinforced corners, mitered and welded to a hairline fit, with no exposed fasteners.

C. Provide structural reinforcement to prevent racking and misalignment.

D. Fabricate with vents to permit evaporation of moisture trapped inside.

E. Provide hold-open arms for any top-hinged doors or panels.

F. Provide continuous rigid aluminum top cap with center ridge and drainage slope toward each face; turn down and provide drip edge. Match finish and color of header panel.

2.7 FINISHES, GENERAL

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.8 ALUMINUM FINISHES

A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

B. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils. Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine mounting substrates with Installer present, for compliance with requirements for installation tolerances, surface conditions of wall, and other conditions affecting performance of work.

B. Examine roughing-in for electrical power system to verify actual locations of connections before installation of illuminated directories.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General: Install in locations and at mounting heights indicated on Drawings. Keep perimeter lines straight, level, and plumb. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim, and accessories necessary for complete installation.

B. Comply with requirements in Division 26 Sections for connecting illuminated directories.

1. After installation is complete, install new fluorescent lamps.

3.3 ADJUSTING AND CLEANING

A. Adjust directory doors to operate smoothly without warp or bind and contact points meet accurately. Lubricate operating hardware as recommended by manufacturer.

B. Touch up factory-applied finishes to restore damaged or soiled areas.

END OF SECTION 10 1300

Cincinnati

3959 Fulton Grove Rd.
Cincinnati, Ohio 45245
(513) 752-9111
(513) 752-7973 (Fax)

Cleveland

3100 E. 45th Street
Suite 446
Cleveland, Ohio 44127
(216) 916-7378
(513) 752-7973 (Fax)

Florida

11982 Granite Woods Loop
Venice, Florida 34292
(513) 265-3299

Services

Phase I ESA's
Phase II Investigations
Asbestos
Lead-Based Paint
Industrial Hygiene
Indoor Air Quality/Mold
Radon
Safety
Training

Asbestos-Containing Materials Abatement Specification

Winton Woods Intermediate School
(Future Early Childhood Campus)
825 Waycross Road
Cincinnati, Ohio 45240

Prepared for:

Allison McKenzie, AIA, LEED AP, WELL AP
Principal
SHP
513.381.2112
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Prepared by:

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State of Ohio Certified Asbestos Project Designer #60164

June 2023

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SPECIAL CONDITIONS

I. All references to the Owner in these Specifications shall be interpreted as Winton Woods Local School District and any designated representatives.

II. The Contractor shall secure, pay for, and maintain in full force and effect until no longer necessary, all licenses, regulatory notifications, permits, and permissions required by Federal and State law, city ordinance, statute, or regulations and any rules or regulations of any service company that may assert control of any operation under this Contract. Copies of the above shall be filed prior to commencement of work.

III. The Contractor shall maintain a temporary office on-site which an authorized agent shall staff each workday. Copies of permits, Specifications marked up to date with all revisions and required regulations shall be kept in said office ready for use at all times. Said office shall have (at all times) a fully stocked first aid cabinet available for use for the Contractor's employees.

IV. In performing the Contract, the Contractor may utilize the existing electric and water service at the Owner's cost. Temporary electrical connections must be performed by a certified electrician approved by the Owner. The Contractor shall be responsible for the safe conveyance of water and electricity to the project areas and for any resulting damage from such conveyance. All sources of water and electricity conveyance shall be subject to the Owner's approval. NOTE: There may be areas in the building where the Contractor shall be required to supply portable generator(s) for an electrical source. Bidding Contractors are advised to walk the site and become familiar with the conditions of each work area prior to submission of their bid.

V. The Contractor is required to staff the project with at least one (1) Ohio Environmental Protection Agency certified Asbestos Hazard Abatement Specialist to act in the supervisory capacity and as the OSHA competent person per 29 CFR 1926.1101. The Supervisor/competent person must be onsite at all times during the project. All other workers must be certified, at a minimum, as an Ohio Environmental Protection Agency Asbestos Worker. Certification cards must be onsite at all times.

VI. Prior to initiation of abatement activities, all workers must possess valid medical examination results from a licensed physician stating that the worker is capable of performing asbestos abatement, (i.e., wearing a respirator) and valid fit test results from within the past twelve (12) months for the respirator being worn by the worker.

VII. The Contractor is responsible for security of the work area and preventing unauthorized entry. The Contractor shall restrict access to Contractor personnel directly involved with the work, authorized Owner's Representatives, and regulatory inspectors legally entitled to inspect the work.

VIII. All of the Contractor's employees shall abide by Federal, State, and local laws and by the Owner's policies while on the premises.

IX. All of the Contractor's employees are restricted to those areas of the building and property directly included in the Project. Entry to all other areas is prohibited. Any employee whose conduct is judged unfit by the Owner and/or Consultant shall not be permitted to work on this project.

X. The Contractor shall not encumber the site with materials or equipment, and shall confine stockpiling of materials to the work area indicated. Storage of materials in public accesses and hallways shall not be permitted.

XI. No other Contractors shall be permitted to execute their work in the work areas until the asbestos abatement work is completed.

XII. Complete waste disposal documentation must be submitted to the Owner after landfill receipt. Documentation must show date/time that the waste left the job site to date/time waste was disposed of at the landfill. Any layovers between leaving the job site (i.e., stored on the Contractor's property, etc.) and disposal date must be documented as well.

XIII. The Contractor is responsible for submitting a final report to the Consultant within thirty calendar days from the time of Substantial Completion. The contents of this final report shall contain all information required by the Consultant's "Final Documentation Audit" found in Appendix A.

XIV. Contractor must prove that all workers are U.S. citizens or that workers have a valid visa.

XV. In the event the Contractor utilizes non-English speaking workers, all required warning signs, Hazard Communications, etc., must be written in the language of the non-English speaking worker. At a minimum, one worker per work crew and/or work shift must speak English in order to communicate effectively with the Owner, Owner's Representatives, and/or Emergency Response personnel.

XVI. Winton Woods Local School District has retained the services of a Consultant to manage the project described herein. The Consultant shall represent the Owner in all phases of the work at the discretion of the Owner. The Contractor shall regard the Consultant's direction as authoritative and binding as provided herein, in matters including, but not limited to, the following:

a. Pre-construction submittals
b. Approval of work areas
c. Review of air and visual monitoring results
d. Completion of the various segments of the work
e. Final completion of the work
f. Post-project submittals

XVII. This specification is a part of the bid documents developed by SHP Leading Design. In the event of discrepancies, the most stringent will apply.

END OF SECTION

TECHNICAL ABATEMENT SPECIFICATIONS

PART 1 - WORK TO BE PERFORMED

1.1 DESCRIPTION OF WORK

The project includes the selective demolition and proper removal of drywall with asbestos-containing drywall compound, located in specified areas of Winton Woods Intermediate School (Future Early Childhood Campus), 825 Waycross Road, Cincinnati Ohio 45240.

The scope of work includes:

- Removal of drywall with asbestos-containing drywall compound above hallway lockers.

NOTE 1: The drywall joint compound throughout the building contains >1% asbestos (the composite of the drywall and drywall compound contains <1% asbestos).

NOTE 2: The bulkhead drywall located above the hallway lockers is to remain intact.

1.2 OWNER'S REPRESENTATIVE

This project will be coordinated through Ms. Allison McKenzie, SHP Lead Design, 312 Plum Street, Suite 700, Cincinnati, Ohio 45202, 513-381-2112 and Mr. George Beaudion, m.a.c. Paran Consulting Services (513) 383-6091.

1.3 PROJECT TIME SCHEDULE

The project work shall be performed as shown below:

Activity	Effective Date(s)
Pre-bid meeting (@ project site)	To be Determined
Sealed bid due	To be Determined
Award of project	See Milestone Schedule
Work start/completion date	See Milestone Schedule

PART 2 - GENERAL

2.1 SCOPE AND CONTRACTOR RESPONSIBILITIES

2.1.1 Work Specified - The Contractor shall furnish all labor, materials, employee training, services, insurance, bonds, regulatory notifications and/or permits, and equipment required to perform this Work in accordance with requirements of this Specification. The Contractor shall furnish all said items to complete removal and decontamination of all asbestos-containing materials specified and as defined.

2.1.2 Contractor Responsibilities - In addition to the removal of asbestos-containing materials, the Contractor is responsible for the following: 1) The Contractor shall take all reasonable precautions necessary to protect persons and property from injury or damage during the performance of this

contract; 2) The Contractor shall be responsible for any injury to himself, their employees, as well as for any damage to personal and Winton Woods Local School District property that occurs during the performance of this contract that is caused by their employee's fault or negligence; 3) The Contractor shall be responsible for protection of all electrical and/or fire alarm systems during abatement activities; 4) The Contractor shall be responsible for disposal of all non asbestos-contaminated building materials removed in order to facilitate asbestos abatement; and 5) The Contractor shall be responsible for and shall maintain personal liability and property damage insurance having coverage for a limit as required by the laws of the State of Ohio.

2.2 INDEMNIFICATION

2.2.1 Patent Indemnification - The Contractor shall pay all license fees and royalties and assume all cost incidents to the use in the performance of work or the incorporation in the work of any invention, design, process, product, or device which is the subject of patent rights held by others. The Contractor shall indemnify and hold harmless the Owner, Consultant, and anyone directly or indirectly employed by them from and against all claims, damages, losses and expenses, including attorneys' fees and court and arbitration cost arising out of any infringement of patent rights incident to the use in performance of the work of any invention, design, process, product or device specified or not specified in the Contract documents, and shall defend all such claims in connection with any alleged infringement of such rights.

2.3 TERMINOLOGY AND DEFINITIONS

2.3.1 Abatement - Procedures to control fiber release from asbestos-containing materials, i.e., removal, encapsulation, or enclosure.

2.3.2 Air Lock - A system for permitting ingress or egress without permitting air movement between a contaminated area or an uncontaminated area, typically consisting of two contained doorways at least 6 feet (2 meters) apart.

2.3.3 Air Monitoring - The process of measuring the fiber content of a specific volume of air in a stated period of time. Phase contrast microscopy in accordance with NIOSH Method No. 7400 is the prescribed method of sampling and analysis.

2.3.4 Air Sampling Technician - A person trained and experienced in air sampling techniques and schemes that performs air sampling under the direction of the Environmental Project Manager or C.I.H.

2.3.5 Amended Water - Water to which a surfactant has been added.

2.3.6 Asbestos Hazard Emergency Response Act (AHERA) - Congressional Act which requires local education agencies to identify friable and non-friable asbestos-containing building materials (ACBM) in public and private elementary and secondary schools; submit management plans to the Governor of their state; implement management plans in a timely manner; and maintain complete records of any action involving the disturbance of ACBM.

2.3.7 Authorized Visitor - The building owner or their representatives, air sampling technician, asbestos project manager, Consultant, or a representative of any regulatory or other agency having jurisdiction over the project.

2.3.8 Barrier - Plastic sheeting and/or other materials used along with the floors, ceilings, and walls of a structure to form an isolated Work environment that separates the contaminated work area from the uncontaminated area.

2.3.9 Bridging Encapsulant - A liquid designed to form a tough membrane over the surface of asbestos-containing materials.

2.3.10 Building Owner - Winton Woods Local School District or their authorized representative(s).

2.3.11 Clean Room - An uncontaminated area or room that is part of the workers' decontamination enclosure system, with provisions for storage of workers' street clothes and protective equipment.

2.3.12 Competent Person - A Contractor's employee (typically the supervisor or superintendent) by virtue of their education and experience who is capable of operating an asbestos hazard abatement project in accordance with current EPA, OSHA, and NIOSH regulations, and standard Work practices established for asbestos removal. The duties of the competent person are as defined in 29 CFR 1926.1101.

2.3.13 Consultant - A Certified Industrial Hygienist (C.I.H.), the designated Consultant, or an Industrial Hygiene Technician under the supervision of the C.I.H. or the Consultant.

2.3.14 Contaminated - Containing or coated with asbestos.

2.3.15 Curtained Doorway - A device to allow ingress or egress from one room to another while minimizing air movement between the rooms, typically constructed by placing two overlapping sheets of plastic over an existing or temporarily formed doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway. Two curtained doorways spaced a minimum of 6 feet (2 meters) apart form an air lock.

2.3.16 Decontamination Enclosure System - A series of connected rooms, with curtained doorways between any two adjacent rooms, for the decontamination of workers or of materials and equipment. A decontamination enclosure system always contains at least one airlock.

2.3.17 Encapsulant - A liquid material that can be applied to asbestos-containing materials or cleaned substrates following the removal of asbestos-containing materials to control the possible release of residual asbestos fibers from the material by creating a membrane over the surface.

2.3.18 Encapsulation - All herein specified procedures necessary to coat asbestos-containing materials with a penetrating or bridging encapsulant to control the possible release of asbestos fibers into the ambient air.

2.3.19 Environmental Project Manager - An individual qualified by virtue of experience, designated as the Owner's representative; and responsible for supervising the on-site Consultant and ensuring compliance with the Project Specifications.

2.3.20 Equipment Decontamination Enclosure System - A decontamination enclosure system for materials and equipment, typically consisting of a designated area of the work area, a washroom, a holding area, and an uncontaminated area.

2.3.21 Equipment Room - A contaminated area or room that is part of the worker decontamination enclosure system, with provisions for storage of contaminated clothing and equipment.

2.3.22 Facility Component - Any pipe, duct, boiler, tank, fan, engines, or furnace at or in a facility, or any structural member of a facility.

2.3.23 Fixed Object - A piece of equipment or furniture in the work area that cannot be removed from the work area.

2.3.24 Glovebag Technique - A method with limited applications for removing small amounts of asbestos-containing material from HVAC ducts, piping runs, valves, joints, elbows, and other uneven surfaces in an uncontaminated (plasticized) work area. The glovebag assembly is a manufactured or fabricated device consisting of a glovebag (typically constructed of 6-mil transparent plastic); two inward-projecting, long-sleeve, rubber gloves; one inward-projecting water wand sleeve; an internal tool pouch; and an attached, labeled receptacle for asbestos waste. The glovebag is constructed and installed in such a manner that it surrounds the object or area to be decontaminated and contains all asbestos fibers released during the removal process. All workers who are permitted to use the glovebag technique must be highly trained, experienced, and skilled in this method.

2.3.25 HEPA Filter - A highly-efficiency particulate air (absolute) filter capable of trapping and retaining 99.97 percent of asbestos fibers greater than 0.3 micrometer in length.

2.3.26 HEPA Vacuum - High-efficiency particulate air (absolute) filtered vacuuming equipment with a filter system capable of collecting and retaining asbestos fibers. Filters should be 99.97 percent efficient for retaining 0.3-micrometer particles or larger.

2.3.27 Holding Area - A chamber between the washroom and an uncontaminated area in the equipment decontamination enclosure system. The holding area comprises an air lock.

2.3.28 Movable Object - A piece of equipment or furniture in the work area that can be removed from the work area.

2.3.29 Negative Pressure Ventilation System - A local exhaust system capable of maintaining a detectable pressure differential across containment barriers relative to adjacent unsealed areas.

2.3.30 NESHAPS - The National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61).

2.3.31 NIOSH - The National Institute for Occupational Safety and Health.

2.3.32 OSHA - Occupational Safety and Health Administration.

2.3.33 Penetrating Encapsulant - A liquid designed to saturate the material, thereby binding asbestos fibers to one another and to other substances in the material.

2.3.34 Polyethylene (poly) - 6-mil plastic sheeting used to cover floors, walls, etc., as herein specified.

2.3.35 Removal - All herein specified procedures necessary to strip or clean up asbestos-containing materials from designated areas and to dispose of these materials at an acceptable disposal site.

2.3.36 Shower Room - A room between the clean room and the equipment room in the worker decontamination enclosure system, with hot, and cold or warm running water and suitably arranged for complete showering during decontamination. The shower room comprises an airlock between contaminated and clean areas.

2.3.37 Staging Area - Either the holding area or an area near the waste-transfer airlock where containerized asbestos waste has been placed prior to removal from the work area.

2.3.38 Stripping - All herein specified procedures necessary to remove asbestos-containing materials or asbestos-contaminated materials from their substrate or from any component of the facility.

2.3.39 Substrate - The underlying surface or material (piping, duct, boilers, tanks, chase floors, etc.) to which asbestos-containing material has been applied.

2.3.40 Surfactant - A chemical wetting agent added to water to improve penetration.

2.3.41 Thermal System Insulation - Insulation used to prevent heat loss from pipes, boilers, tanks, breeching, heat exchangers, etc.

2.3.42 Washroom - A room between the work area and the holding area in the equipment decontamination enclosure system. A washroom comprises an air lock.

2.3.43 Wet Cleaning - The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools that have been dampened with water, and then disposing of these cleaning tools as asbestos-contaminated waste.

2.3.44 Work Area - Designated rooms, spaces, or areas of the project in which asbestos abatement actions are to be undertaken or which may be contaminated as a result of such abatement actions. A contained work area is one that has been sealed, plasticized, and equipped with a decontamination enclosure system. An isolated work area is a controlled-access work area that has been isolated by plastic curtains and in which the openings to the outside are sealed with plastic sheeting. An isolated work area is not an airtight containment area and is not equipped with a decontamination enclosure system.

2.3.45 Worker Decontamination Enclosure System - A decontamination enclosure system for workers, typically consisting of a clean room, a shower room, and an equipment room.

2.4 APPLICABLE REFERENCE DOCUMENTS

The current issue of each document shall govern. If there is a conflict among requirements or with these Specifications, the more stringent requirement shall apply.

2.4.1 Regulations - Compliance is required in strict accordance with applicable Federal, State, municipal, and local regulations.

2.4.1.1 Title 29, Code of Federal Regulations, Section 1910.1001, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.

2.4.1.2 Title 29, Code of Federal Regulations Section 1926.1101, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.

2.4.1.3 Title 29, Code of Federal Regulations Section 1926.139, General Industry Standard for Respiratory Protection.

2.4.1.4 Title 29, Code of Federal Regulations Section 1926.59, Construction Industry Standard for Hazard Communication.

2.4.1.5 Title 29, Code of Federal Regulations Section 1910.1200, General Industry Standard for Hazard Communication.

2.4.1.6 Title 29, Section 1910.1000, Occupational Safety and Health Standards.

2.4.1.7 Title 40, Code of Federal Regulations, Part 61, Subpart A and M, National Emissions Standards for Hazardous Air Pollutants, U.S. Environmental Protection Agency (EPA).

2.4.1.8 Title 40, Code of Federal Regulations, Part 763, Asbestos-Containing Materials in Schools; Final Rule and Notice, U.S. Environmental Protection Agency (EPA).

2.4.1.9 Title 40, Code of Federal Regulations, Part 761, Polychlorinated Biphenyls (PCB's).

2.4.1.10 Ohio Revised Code, Chapter 3745-20 and 3710.

2.4.1.11 Title 49, Code of Federal Regulations, Hazardous Materials Transportation Regulations, U.S. Department of Transportation (DOT).

2.4.2 Codes and Standards

2.4.2.1 ANSI - American National Standards Institute, ANSI Z 9.2, Fundamentals Governing the Design and Operation of Local Exhaust Systems.

2.4.2.2 NEC - National Electric Code. Any Work involving electrical equipment in a facility or wet environments shall be performed in strict accordance with the National Electric Code.

2.5 AIR MONITORING

2.5.1 Asbestos Exposure Monitoring Schedule and Sampling Strategy- At a minimum, the Contractor's air monitoring schedule and sampling strategy for asbestos-related work shall be conducted as follows:

ASBESTOS EXPOSURE MONITORING SCHEDULE

Phase of Abatement Project	When to Sample	Type of Sample	Minimum # of Samples	Location
PREPARATION	Each day of operation	Personal	1	Inside work area
		Excursion	1	Inside work area
REMOVAL	Each day of operation	Personal	1	Inside work area
		Excursion	1	Inside work area
DECONTAMINATION	Each day of operation	Personal	1	Inside work area
		Excursion	1	Inside work area

NOTE: At a minimum, one out of four workers involved in asbestos hazard abatement activities shall be monitored during all preparation, gross removal, decontamination, and load-out phases of this Project. Short-term excursion samples shall also be collected per activity and/or at the request of the Consultant.

2.5.2 Methods of Collection and Analysis

2.5.2.1 All air monitoring shall be conducted in accordance with 29 CFR 1926.1101. The sampling period shall be 7 to 8 hours, except on abbreviated work shifts. The flow rate for the sampling pump shall be 0.5 to 2.5 liters/minute. Sampling pumps shall be calibrated daily to ensure proper flow-rates.

2.5.2.2 All pertinent personal exposure sampling data shall be completed in full on a daily basis with all required entries and calculations.

2.5.2.3 All samples collected by the Contractor, or their representative, shall be submitted at the end of each work shift for analysis. Completed data sheets must be submitted to the laboratory along with each day's filter samples. Sampling results shall be reported to the Contractor within twenty-four hours of their collection.

2.5.2.4 The minimum number of employees and areas to monitor indicated shall not be interpreted as the total number of samples to be collected and analyzed each day. Multiple personal or area samples may have to be collected during the 7 to 8 hour work shift to accurately characterize a worker's exposure level. The number of samples collected shall depend on the degree of airborne contamination in the work area and the effectiveness of work practices and engineering controls. Overloaded filter samples or filter holder cassettes containing loose particulate matter are unacceptable. The air samples must be properly collected and representative of actual concentrations in each work area.

2.6 PERSONNEL PROTECTION

2.6.1 Worker Instruction - Prior to commencement of work, the workers shall be instructed and made knowledgeable about all aspects of the written respiratory protection program, hazards of asbestos exposure, decontamination procedures, entry and exit procedures, protective clothing requirements, safe work practices, and shall have received the OSHA required medical examination, per 29 CFR 1926.1101.

2.6.2 Respiratory Equipment - Workers shall be provided with personally issued and marked respiratory protection equipment approved by NIOSH and suitable for the asbestos exposure level in the work area according to OSHA Standard 29 CFR 1926.1101. At a minimum, all workers performing abatement activities in total containment work areas shall wear powered air purifying respirators (PAPR'S) equipped with NIOSH approved HEPA filter cartridges suitable for asbestos exposure. Half face negative pressure respirators shall be permitted for all final cleaning activities, modified negative pressure containments, and during negative pressure glove bag removal activities. Sufficient filter cartridges for replacement shall be provided as required by the worker, applicable regulations, or as bound into this specification.

2.6.3 Protective Clothing - Workers shall be provided with sufficient sets of protective full-body clothing per OSHA Standard 1926.1101. Such clothing shall consist of full-body coveralls and headgear. Eye protection and hard hats shall be provided as required. Non-disposable protective clothing and footwear shall be left in the contaminated equipment room until the end of the asbestos abatement work, at which time such items shall be disposed of as asbestos waste, or shall be thoroughly cleaned of all asbestos or asbestos-containing material. Note: Workers shall be permitted to wear only rubber boots in contained work areas; no other type of footwear shall be permitted.

2.6.4 Visitor Protection - Authorized visitors shall be provided with suitable respirators with new filters or cartridges and protective clothing, headgear, eye protection, and footwear whenever they are required to enter the work area, to a maximum of three (3) sets per day. Authorized visitors for this project include regulatory agencies, Consultant, and the Owner's Representatives who are certified to enter a regulated work area.

2.6.5 Protection Procedures - The Contractor shall provide and post, in the equipment room and the clean room, the decontamination and work procedures to be followed by workers.

2.6.6 Worker Protection Procedures

2.6.6.1 Each worker and authorized visitor shall, upon entering the job site: remove street clothes in the clean change room and put on a respirator with new filters and clean protective clothing before entering the equipment room or the work area; except workers that intend to re-wear contaminated protective clothing stored in the equipment room (entering the equipment room wearing only respirator).

2.6.6.2 Each worker and authorized visitor shall, each time they leave the work area: remove gross contamination from clothing before leaving the work area; proceed to the equipment room and

remove all clothing except respirators; still wearing the respirator, proceed naked to the shower; clean the outside of the respirator with soap and water while showering; remove the respirator; thoroughly shampoo and wash; if the filters require replacement, remove filters, wet them, and dispose of them in the container provided for that purpose; and wash and rinse the inside of the respirator.

2.6.6.3 Following showering and drying off, each worker and authorized visitor shall proceed directly to the clean change room for re-dressing into street clothes, or into a clean disposable suit if the exit is for a short break period and re-entry is expected shortly.

2.6.6.4 Contaminated work footwear shall be stored in the equipment room when not in use in the work area. After the asbestos abatement process is completed, footwear shall be disposed of as contaminated waste or cleaned thoroughly inside and out with soap and water before being removed from the work area or from the equipment and access area. Contaminated protective clothing shall be stored in the equipment room for reuse or placed in receptacles for disposal with other asbestos-contaminated materials.

2.6.6.5 Workers shall not eat, drink, smoke, chew gum, or chew tobacco at the work site except in the established clean room or outside the building. NOTE: No smoking is permitted inside any areas of the building.

2.6.6.6 Workers shall be fully protected with respirators and protective clothing immediately prior to the first disturbance of asbestos-containing or contaminated material, and until final cleanup is completed and final clearance given.

2.7 EQUIPMENT REMOVAL PROCEDURES

2.7.1 Cleaning - Clean external surfaces of contaminated containers and equipment thoroughly by wet mopping, or using a HEPA-filtered vacuum before moving such items into the decontamination enclosure system washroom for final cleaning and removal to uncontaminated areas. Ensure that personnel do not leave work areas through the equipment decontamination enclosure system.

2.8 EMERGENCY PRECAUTIONS

2.8.1 Prepare a written contingency plan for emergencies including fire, accident, power failure, pressure differential system failure, supplied air system failure (if applicable), or any other event that may require modification or abridgment of decontamination or work area isolation procedures. Include in the plan specific procedures for decontamination or work area isolation.

2.8.2 The Contractor shall be responsible for providing a minimum of one fire extinguisher, rated not less than 2A, for each three thousand square feet of containment area in accordance with 29 CFR 1926.150. Travel distance from any point inside the work area to the nearest fire extinguisher shall not exceed seventy-five feet. NOTE: 1) Substitution of a fire extinguisher with a half-inch garden hose not exceeding seventy-five feet in length shall be permitted provided the number of hoses is equivalent to the required number of fire extinguishers; 2) Hose(s) attached to the decontamination unit shall not serve as a fire extinguisher; and 3) All contained work areas shall be marked (with high visibility paint) on the lower sections of the walls to aid in escape in the event of a fire.

2.8.3 Employees shall be trained in evacuation procedures in the event of work area emergencies.

2.8.3.1 For non-life-threatening situations, employees injured or otherwise incapacitated shall decontaminate themselves following normal procedures with assistance from fellow workers, if necessary, before exiting the work area to obtain proper medical treatment.

2.8.3.2 For life-threatening injury, worker decontamination shall take least priority after measures to stabilize the injured worker, remove him from the work area, and secure proper medical treatment.

2.8.4 Before the Contractor starts abatement activities, the local police and fire departments should be informed of the danger of entering a contaminated work area. The Contractor shall make every effort to help these agencies form plans of action should their personnel need to enter contaminated work areas, and to assist during emergencies.

2.8.5 Telephone numbers of all emergency response personnel shall be prominently posted in the clean/change room outside the worker decontamination enclosure system along with location of the nearest telephone.

2.8.6 All accidents involving personal injury, property loss, or "near miss" incidents shall be immediately reported to the Owner and/or their representative(s).

2.9 SITE SECURITY

2.9.1 The Contractor shall post warning signs at designated entrances to each work area as required by 29 CFR 1926.1101.

2.9.2 The work area is to be restricted to authorized, trained, and protected personnel only. These may include the Contractor's employees, employees of Subcontractors, Owner's employees and representatives, State and local inspectors, and any other designated individuals.

2.9.3 Entry into the work area by unauthorized individuals shall be reported immediately to the Owner's representative by the Contractor.

2.9.4 The Contractor shall have control of site security of the work area during abatement activities in order to protect work efforts and equipment. The Owner shall maintain building security of the facility after work hours.

2.9.5 Parking must be approved by Winton Woods Local School District.

PART 3 - MATERIALS AND EQUIPMENT

3.1 MATERIALS

3.1.1 Material Delivery - All materials shall be delivered clean, in proper working order, and shall bear the name of the manufacturer and brand. Safety Data Sheets shall be required for all materials brought on-site by the Contractor.

3.1.1.1 All materials subject to damage shall be stored off the ground, away from wet or damp surfaces, and under sufficient cover to prevent damage or contamination.

3.1.1.2 Damaged or deteriorating materials shall not be used and shall be removed from the premises. Material that becomes contaminated with asbestos shall be disposed of in accordance with this Specification.

3.1.2 Polyethylene - Polyethylene for all uses, shall be a minimum of 6-mil thick. All polyethylene shall be sized in appropriate lengths and widths to minimize the frequency of joints.

3.1.2.1 Plastic sheeting used for worker decontamination enclosure systems shall be black in color.

3.1.3 Tape - Must be capable of sealing joints of adjacent plastic sheets, capable of attaching plastic sheets to finished or unfinished surfaces of dissimilar materials, and capable of adhering under dry and wet conditions, including use of amended water.

3.1.4 Surfactant - A surfactant shall consist of 50 percent polyoxyethylene ether and 50 percent polyoxyethylene ester, or equivalent, and shall be mixed with water to provide a concentration of 1 ounce surfactant to 5 gallons of water, or according to manufacturer's Specifications.

3.1.5 Impermeable Containers - Must be suitable for receiving and retaining any asbestos-containing and/or contaminated materials. Metal or fiber drums with tight-fitting lids are required for all asbestos-containing wastes, i.e., metal lath, wire, metal jackets, etc. Plastic bags, 6-mil thick, are acceptable for friable asbestos, fiberglass insulation without metal components that could tear the bags.

3.1.6 Encapsulants - Encapsulating sealants shall be bridging or penetrating sealants such as Cafco "Bond Seal," or an approved equivalent.

3.1.6.1 Encapsulants selected for use by the Contractor shall be one of those demonstrating effective performance under the tests conducted by Battelle Laboratories for EPA.

3.1.6.2 The encapsulant shall not add any toxic substances to the asbestos-containing material and should not break down under direct flame impingement to release any toxic gases or an undue amount of smoke.

3.1.6.3 The encapsulant shall be capable of adhering to the substrate surface.

3.1.6.4 The encapsulant shall be applicable with minimum effort and skill.

3.1.6.5 The encapsulant shall have impact resistance, flexibility, and resistance to penetration in withstanding physical contact.

3.1.6.6 The encapsulant shall be water insoluble when cured.

3.1.6.7 The encapsulant shall be nontoxic and free of toxic fumes during application.

3.1.6.8 The encapsulant shall have sufficient aging characteristics to withstand normal atmospheric changes for a minimum of 6 years.

3.1.7 Warning Labels and Signs - As required by 29 CFR 1926.1101.

3.1.8 Glovebags - Two types of glovebags shall be considered suitable for this Project.

3.1.8.1 Polyethylene glovebag - This special prefabricated device is designed for the controlled removal of asbestos-containing materials from pipes and other nonplanar structures and consists of a minimum 7-mil, clear, polyethylene plastic bag (approximately 50 in. wide by 64 in. long) with integral impermeable arms and latex gloves. Each bag shall be equipped with an internal attached tool pouch and entry port for insertion of wetting tube and/or HEPA-vacuum hose nozzle.

3.1.8.2 Polyvinyl chloride glovebag - This prefabricated device is designed for the controlled removal of asbestos-containing materials from pipes or other nonplanar surfaces and consists of a minimum 10-mil, clear, polyvinyl chloride (PVC) bag with integral 10-mil-thick PVC gloves, elasticized valve/port, and tool pouch.

3.1.9 Other Materials - The Contractor shall provide all other materials, such as lumber, nails, and hardware, that may be required to construct and dismantle the decontamination units and the barriers that isolate the work area.

3.2 TOOLS AND EQUIPMENT

3.2.1 The Contractor shall provide suitable tools and equipment for all phases of work for this Project.

3.2.1.1 Air movement equipment - High efficiency particulate air (absolute) filtration equipment in compliance with ANSI Z 9.2, Local Exhaust Ventilation. No air movement system or air equipment shall discharge asbestos fibers outside the work area into the building.

3.2.1.2 Each HEPA filter shall be individually tested and certified by the manufacturer to have an efficiency of not less than 99.97 percent when challenged with 0.3-micron dioctylphthalate (DOP) particles. Testing shall be in accordance with Military Standard Number 282 and Army Instruction Manual 136-300-175A. Each filter shall bear a UL586 label to indicate the ability to perform under special conditions. Each filter shall be marked with the name of the manufacturer, serial number, air flow rating, efficiency and resistance, and the direction of test air flow.

3.2.1.3 A negative air pressure differential shall be established in the work area by means of mechanical exhaust equipment in order to keep airborne fibers confined to the work area, decrease humidity and temperature, reduce fiber levels in the work area, and achieve acceptable final air monitoring results. The mechanical equipment shall exhaust through a HEPA filter to the outside of the building. The equipment shall remain in operation twenty-four hours a day until decontamination of the work area and final air sampling and analysis is completed.

3.2.1.4 Backup air filtration devices shall be available at the site in the event of unit failure and need for substitution.

3.2.2 Airless Sprayer - An airless sprayer shall be used for the application of amended water and encapsulants.

3.2.3 Scaffolding and Ladders - Scaffolding and ladders shall be used as required to accomplish work specified in Part 1 and shall meet or exceed all applicable OSHA requirements and safety regulations.

3.2.4 Vacuums - All vacuums utilized to clean up asbestos-containing materials in the work area shall be equipped with HEPA filters. NOTE: All HEPA equipped vacuums used on this project shall be thoroughly decontaminated prior to being brought on site.

3.2.5 Miscellaneous Tools and Equipment - The Contractor shall provide all other tools suitable for the stripping, removal, and encapsulation of asbestos-containing materials. These tools include, but are not limited to, scrapers, wire cutters, brushes, sprayers, sponges, utility knives, flexible wire saws, shovels, and brooms.

3.2.6 Use of Owner's Tools and Equipment - No tools or equipment of the Owner shall be used by the Contractor unless permission in writing is granted by the Owner's representatives.

3.3 WATER SERVICE

3.3.1 Temporary Water Service Connection - All connections to the Owner's water system shall include backflow protection. Valves shall be temperature and pressure rated for operation of the temperatures and pressures encountered. After completion of use, all connections and fittings shall remain in place for use by the Owner.

3.3.2 Water Hoses - Employ heavy duty, abrasion resistant hoses with a pressure rating greater than the maximum pressure of the water distribution system to provide water into each work area. Provide fittings as required to allow for connections. NOTE: Any leaking hoses shall be immediately repaired and/or removed from the project.

3.3.3 Water Heater - If hot water is not available at the building, provide at least one (1) UL rated 40-gallon electric hot water heater to supply hot water to the decontamination unit. Provide relief valve compatible with water heater operation; pipe relief valve down to drip pan on floor with type L copper. The wiring of the hot water heater shall be in compliance with NEMA, NECA, and UL standards.

3.4 ELECTRICAL SERVICE

3.4.1 General - Comply with applicable NEMA, NECA, and UL standards and governing regulations for materials and layout of temporary electrical service. NOTE: All modifications and/or connections made to the building's electrical system shall be performed by a certified electrician at the consent of the Owner.

3.4.2 Lockout - Lockout all existing power to or through the work area as described below. Unless specifically noted otherwise, existing power and lighting circuits to the work area are not to be used. All power and lighting to the work area and decontamination facilities are to be provided from temporary electrical panel described in article 3.4.3.

3.4.2.1 Lockout power to circuits running through work area where feasible by switching off all breakers servicing these circuits. Label breakers with tape over breaker with notation "DANGER - circuit being worked on." Sign and date danger tag. Lock panel and have keys under the sole control of electrician and Supervisor. If circuits cannot be shut down for any reason, label energized power and lighting circuits, and equipment with tags reading "DANGER - Live Electric, Electrocution Hazard.

3.4.3 Electrical Distribution System - Temporary electric panels equipped with ground fault circuit interrupters (GFCI's) shall be installed outside of the enclosed work areas with sufficient circuits to support all AFD's, lighting, electric tools, and air sampling equipment inside and outside of the enclosed work area. All temporary electrical power shall comply with the requirements of the National Electric Code for Wet Environments. Provide only UF non-metallic sheathed cable.

3.4.4 Electric Tools - Electrical tools and equipment shall meet all applicable codes and regulations. GFCI's shall be used at all times for electrical equipment.

3.4.5 Electrical Power Cords - Use only grounded extension cords; use "hard service" cords where exposed to abrasion and traffic. Use single lengths or use waterproof connectors to connect separate lengths of electric cords if single lengths will not reach areas of work.

3.4.6 Lamps and Light Fixtures - Provide general service incandescent or halogen lamps of wattage indicated or required for adequate illumination. Protect lamps with guard cages or tempered glass enclosures. Provide lighting fixtures suitable for wet environments.

3.5 TEMPORARY LIGHTING

3.5.1 Where natural lighting does not meet the required light level, provide one (1) 200-watt halogen light per every 500 square feet of floor area. In stairways and at ladder runs, provide one 100-watt incandescent lamp per story, located so as to illuminate each landing and flight. Provide sufficient temporary lighting to ensure proper workmanship everywhere, by combined use of daylight, general lighting, and portable plug-in task lighting.

3.6 FIRE EXTINGUISHERS

3.6.1 Provide Type "A" fire extinguishers for temporary offices and similar spaces where there is minimal danger of electrical or grease-oil-flammable liquid fires. In other locations, provide type "ABC" dry chemical extinguishers, or a combination of several extinguishers of NFPA recommended types for the exposures in each case.

PART 4 - EXECUTION

4.1 SEQUENCE OF EXECUTION

4.1.1 Negative Pressure Enclosure -

4.1.1.1 Shut down and lock out electric power to all work areas where applicable. Provide temporary power and lighting and ensure the safe installation of temporary power services and equipment, as specified in applicable electrical code requirements. Provide ground-fault interrupt circuits as a power source for all electrical equipment. All modifications to the building's electrical system shall be performed by a certified electrician at the consent of the Owner. The power service shall not violate the integrity of the area isolation. Auxiliary lighting used in the work area shall be moisture proof.

4.1.1.2 Seal all other openings from the work area, including but not limited to: doorways; windows; diffusers, return and relief grilles, and any other HVAC openings; and any other penetrations, with two layers of 6-mil polyethylene sheeting sealed with tape. The work areas shall be demarcated with construction barrier tape and caution signs.

4.1.1.3 Introduce scaffolding and other large equipment that will not pass through the work area isolation structure.

4.1.1.4 Where the work area terminates either in a corridor which is in use or adjacent to other occupied areas of the building, neither of which is separated from the work area by existing building construction (e.g., doors, walls, etc.), the Contractor shall install two 6 mil polyethylene barriers, each airtight and at least 3 feet apart. In addition to these plastic barriers, the Contractor shall construct temporary framed partition(s) consisting of full height wood studs and 1/2" plywood to prohibit access to the contaminated work area, except through the approved decontamination system(s). If the barriers will abut asbestos-containing material, then the barriers shall be installed after installation of the work area isolation structure.

4.1.1.5 Cover floor and wall surfaces with two layers of 6-mil polyethylene sheeting sealed with tape Apply anti-slip materials to steps (if applicable) so that the polyethylene film can be firmly anchored to avoid shifting layers of sheeting. Install floor polyethylene a minimum of 10" up the walls and overlap with the wall sheeting. Where appropriate, provide support for the wall polyethylene to reduce tension on tape and to ensure that the sheeting will not fall during the course of the work. Care shall be exercised to provide an air and watertight seal of the floor to wall sheeting joints, and at openings such as doors and windows. NOTE: The Contractor shall not be permitted to substitute the two layers of 6-mil poly sheeting with one layer of 10-mil poly sheeting. The polyethylene sheeting shall be installed as follows:

- floors - two (2) layers of 6-mil
- walls - two (2) layers of 6-mil

4.1.1.6 Install HEPA-filtered air filtration devices (AFD) into the work area and vent exhaust ducts through openings to the outside atmosphere. The following formula shall be used to calculate the number of AFD's required:

#AFD's = length x width x height of work area
15 minutes x AFD capacity (in CFM)

Accomplish the negative pressure by exhausting a sufficient number of HEPA filtered fan units from the work area to the outside building air using disposable flex duct in lengths no greater than 50 feet (if exhaust locations exceed 50 feet, "booster" or additional in-line units may be required). AFD exhausting onto pedestrian walkways is prohibited.

Continuously maintain the work area at an air pressure that is lower than that of any surrounding outside area (negative pressure). This negative pressure, when measured across any physical or critical barrier, must equal, or exceed a static pressure of -0.02 inches of water. Provide a manometer with a dial or strip recorder to measure and record the pressure differential across the barrier at all times. The negative pressure shall be maintained for the duration of the project until clearance air sampling results is obtained meeting the clearance criteria. NOTE: Should negative pressure drop below -0.02 inches of water, the Contractor shall immediately stop all work in the contained area(s) until the required pressure is achieved.

4.1.1.7 Establish a contiguous three chamber decontamination unit in accordance with OSHA 29 CFR 1926.1101 and Article 4.2 with functional shower.

4.1.1.8 Pre clean fixed and immovable objects and/or contaminated furniture and materials within the work area using HEPA-equipped vacuums and/or wet cleaning methods as appropriate, and enclose with polyethylene film and seal with tape.

4.1.1.9 Pre-clean contaminated furniture and materials within the work area using HEPA-equipped vacuums and/or wet cleaning methods as appropriate. Remove any decontaminated furniture and materials from the work area and store or discard as directed by the Owner. NOTE: Stationary items in the work area(s) may be inspected by the on-site Consultant prior to allowing the Contractor to seal them with polyethylene film and tape.

4.2 ASSOCIATED WORK AREA COMPONENTS

4.2.1 Decontamination Enclosure Systems

4.2.1.1 General - Build suitable framing and/or use existing rooms connected with framed-in tunnels, if necessary, and line with plastic sealed with tape at all lap joints for all enclosures and decontamination enclosure systems rooms. Either existing rooms outside of the work area or specially framed and sealed temporary areas shall be used for the decontamination enclosure system. Convenience and proximity to the work area shall be the determining factors. In all cases, access between contaminated and uncontaminated rooms or areas shall be through an airlock, as described in Section 2.3.

4.2.1.2 Worker Decontamination Enclosure System - Construct a worker decontamination enclosure system contiguous to the work area that consists of three totally enclosed chambers as follows:

- An equipment room with two curtained doorways: one to the work area and one to the shower room.

- A shower room with two curtained doorways; one to the equipment room and one to the clean room. One shower shall be provided for every ten (10) workers or fraction thereof as required by 29 CFR 1910.141. To ensure against potential leakage, a metal pan with a minimum three-inch lip shall be installed underneath each shower facility. Ensure soap is available at all times in the shower room. The shower wastewater shall be drained, collected, and filtered through a system with at least 5-to-10-micron particle size collection capability. A system containing a series of several filters with progressively smaller pore sizes is recommended to avoid rapid clogging of filtration system by large particles. All expended

filters shall be discarded as contaminated waste. Filtered water may be discharged to a sanitary or storm sewer drain.

- A clean room with one curtained doorway into the shower and one entrance or exit to uncontaminated areas of the building. The clean room shall have sufficient space for storage of workers' street clothes, towels, and other uncontaminated items.

  NOTE 1: The chambers of the decontamination unit shall be built large enough to facilitate proper personnel decontamination and efficient load outs of asbestos-containing waste and/or demolition debris. The enclosure shall be large enough for workers to change in privacy. The shower area itself shall be constructed on site and shall be required to have a wood or plastic grading so at no time the worker will be standing in contaminated water. The showerhead shall be firmly attached to the shower unit. There shall be no deviation from this requirement. The decontamination unit shall be thoroughly cleaned (every day) prior to the Contractor leaving the job site.

  NOTE 2: Use black plastic for the walls and curtains of the worker decontamination enclosure system to ensure the privacy of the workers. The top shall be covered with clear plastic to allow existing light into the decontamination enclosure.

4.2.2 Air Filtration System

4.2.2.1 Ensure that barriers and plastic linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately upon discovery.

4.2.2.2 Visually inspect enclosures at the beginning, during and following each work shift.

4.2.2.3 A pressure differential between the outside and inside work area shall be maintained at all times while abatement activity is in progress. The Contractor shall not allow any airflow out of the work area except through HEPA filtered air filtration devices.

4.2.2.4 The pressure differential shall be maintained so that the movement of tools, equipment, employees, and waste containers through the decontamination enclosure systems do not result in airflow out of the work area.

4.3 ASBESTOS REMOVAL AND DECONTAMINATION PROCEDURES

4.3.1. Negative Pressure Containment (if used for large sections of drywall/drywall compound) -

4.3.1.1 After isolation of the work area is completed as specified, the drywall shall be wetted with amended water before removal. Small sections of the drywall shall be removed using hand tools (no power tools), wetted again with amended water, and immediately placed into approved disposal containers. All surfaces of the remaining components (including but not limited to steel and/or concrete decking, concrete and/or block walls, etc.) shall be thoroughly wet cleaned with sponges, cloths, or brushes. Containers that become full shall be sealed.

4.3.2 Glove Bag Removal Procedure (if used for small sections of drywall/drywall compound) -

4.3.2.1 Glove bags shall be used in strict accordance with OSHA 29 CFR 1926.1101. Glove bag work shall be conducted by two person teams per glove bag. Each glove bag shall only be used once and may not be moved. In the event of area contamination (i.e., breached glove bag, improper work practice, etc.) the Contractor shall immediately stop work and isolate the immediate work area (as determined by the Owner or Owner's Representative). The Contractor shall then immediately proceed with cleaning of the entire isolated area(s) using HEPA-filtered vacuuming followed by wet wiping of all surfaces.

4.3.2.2 Glove bags shall be of 6-mil thickness and shall be seamless at the bottom. Cover floor in the vicinity of the work area and six (6) feet beyond with 6-mil polyethylene sheeting. Prior to installing the glove bag, completely cover all loose and friable materials adjacent to the glove bag operation with two layers of 6-mil polyethylene or encapsulate to render material intact.

4.3.2.3 Install the glove bag so that it completely covers the area to be removed.

4.3.2.4 Modifications of glove bags shall not be permitted. Install per the manufacturer's instructions. All glove bags must be smoke tested, and all detectable leaks sealed prior to performing glove bag removal work.

4.3.2.5 Keep materials wet at all times during the removal process utilizing amended water. Immediately repair any leaks which occur during removal. Following removal of the materials, wash all materials down into the lower compartment of the glove bag. Thoroughly rinse the interior of the bag and encapsulate the interior of the bag and the substrate where the material has been removed.

4.3.2.6 Evacuate the air from inside the glove bag using a HEPA vacuum. With the removed insulation in the bottom of the bag, twist the bag several times and tape above the lower compartment to contain the material in the bottom of the bag. Remove the glove bag and promptly place in approved disposal container.

4.4 REMOVAL AND DISPOSAL OF CONTAMINATED WASTE

4.4.1 Fill disposal containers to a level that workers can handle safely and with ease.

4.4.2 As disposal containers are filled, seal and move them to the staging area for decontamination.

4.4.3 Clean external surfaces of containers thoroughly by wet sponging in the designated areas that is part of the equipment decontamination enclosure system. Move containers to the washroom, wet-clean each container thoroughly, and move them to the holding areas pending removal to uncontaminated areas. Place decontaminated, sealed plastic bags containing asbestos material into a second clean bag; twist the bag opening tightly, bend the twisted end downward, and seal with tape. Move all disposal containers to the holding area to await disposal at an approved landfill. If glove bag techniques are used, place the glove bag into a clean bag; twist the bag opening tightly, bend the twisted end downward, seal with tape, and then move it to the holding area. Ensure that containers are removed from the holding area by workers, dressed in clean coveralls, who have entered from uncontaminated areas. Ensure that workers do not enter from uncontaminated areas into the washroom of the work area; ensure that contaminated workers do not exit the work area through the equipment decontamination enclosure system.

4.4.4 To prevent exceeding available storage capacity on-site as the work progresses (if applicable), remove sealed and containers of waste and dispose of such containers at an authorized disposal site in accordance with disposal regulatory requirements.

4.4.5 After the waste containers are decontaminated, the Contractor may make arrangements for a hauler or truck driver from the waste disposal site to transport the asbestos waste and contaminated material to the disposal site. Transportation of all materials from each work area shall be in accordance with all applicable DOT and EPA regulations. **The drywall/drywall compound may be disposed of as non-asbestos-containing waste.**

4.4.6 Transportation shall be by enclosed truck, trailer, or waste shipping container with the cargo area free of debris.

4.4.7 All waste inside the work area shall be removed and items decontaminated before any cleanup work is started and before the isolation structures are dismantled.

4.4.8 The Contractor shall ensure that all employees handling and discarding asbestos waste wear approved respiratory equipment and protective clothing.

4.4.9 In certain instances, plastic bags or fiber and metal drums may not be adequate or suitable to handle certain asbestos-containing materials. As an alternative, the Contractor may remove asbestos-containing material that is bulky or cumbersome in two layers of 6-mil plastic sheeting sealed tightly at all joints with tape and/or spray adhesive.

4.5 CLEANUP AND DECONTAMINATION OF THE WORK AREA

4.5.1 Asbestos Cleanup - Remove visible accumulations of asbestos material and debris. Wet-clean all surfaces within the work area.

4.5.2 Clean all surfaces in the work area and any other contaminated areas with water and/or with HEPA-filtered vacuum equipment. After cleaning the work area, wait twenty-four hours to allow dust to settle, and wet-clean and/or HEPA vacuum all surfaces in the work area a second time. After completion of the second cleaning operation, visually inspect the entire work area to ensure that it is free of visible asbestos debris.

4.5.3 Sealed containers and all equipment used in the work area shall be included in the cleanup and shall be removed from work areas, via the decontamination enclosure system, at an appropriate time in the cleaning sequence.

4.5.4 If the Owner finds visible accumulations of asbestos debris in the work area after cleaning, the Contractor shall repeat the wet cleaning until the work area passes inspection.

4.5.5 When the final inspection and subsequent final clearance air monitoring survey (if performed) determines the area is free of accumulated visible asbestos debris and airborne fibers, the decontamination enclosure system shall be removed and materials from the equipment room and shower shall be disposed of as contaminated waste.

4.5.6 To prevent exceeding available storage capacity on-site as the work progresses, sealed containers of waste shall be removed and disposed.

4.6 DETERMINING ABATEMENT COMPLETION

4.6.1 Visual Inspection

4.6.1.1 The Contractor shall be required to conduct a thorough visual inspection of each work area after all asbestos-containing material has been completely removed.

4.6.1.2 Items to be checked during the visual inspection include, but are not limited to, the following:

- The adequacy of removal of asbestos-containing materials from their substrate.
- The presence of adhering material or accumulated material on exposed surfaces.

Only after the work area has passed the visual inspection will the Contractor be permitted to apply sealant materials.

4.7 SEALANT APPLICATION FOR LOCKDOWN

4.7.1 In all areas from where asbestos-containing materials are removed (including glove bag), an approved sealant shall be used to lock down residual fibers to their substrate.

4.7.2 The sealant shall be applied to all surfaces within the containment.

4.7.3 The sealant shall be applied with low-pressure airless spray equipment.

4.7.4 The sealant shall be used and applied in strict accordance with manufacturer's specifications.

4.7.5 The Contractor shall apply a thin, visible, contiguous film of sealant to all areas specified. Additional applications shall be required if the first application does not adequately cover the substrates.

4.8 FINAL AIR MONITORING

4.8.1 Final air sampling will be performed to determine and document air quality upon completion of abatement activities within full negative pressure containments. The consultant shall perform the final air sampling after the worksite has passed the final visual inspection and the polyethylene walls have been removed. Samples will be collected by use of high-volume electric sampling pumps calibrated to a maximum flow rate of 10 liters/minute. Final clearance air samples shall be collected and analyzed using Phase-Contrast Microscopy (PCM) and/or Transmission Electron Microscopy (TEM).

4.8.1.1 Acceptable Final Air Clearance Concentrations by PCM - Clearance air samples will be collected from several locations in the work area and in the adjacent worker decontamination area. Samples will be analyzed by PCM using NIOSH Method No. 7400. Total airborne fiber levels in all locations in the work area (as determined by phase-contrast microscopy) must be equal to or less than 0.01 fiber/cubic centimeters of air. If anyone air sample collected within the work area is equal to or greater than 0.01 fiber/cubic centimeters, the Contractor shall re-clean the work area with HEPA-filtered vacuum equipment and damp cloths/mops. A second set of final air samples will be collected and analyzed by the Consultant at the Contractor's expense.

4.8.1.2 Acceptable Final Air Concentrations by TEM - A total of thirteen (13) TEM samples may be required: five (5) samples collected inside all applicable abatement work areas, five (5) samples collected outside all applicable abatement work areas, two (2) field blanks, and one (1) sealed blank per the requirements of EPA 40 CFR Part 763, Appendix A. If the average of the 5 inside sample concentrations is less than or equal to 70 structures per millimeter squared (70 s/mm2), the work area shall be considered clean. In the event the TEM samples fail to pass the clearance criteria as listed, the Contractor shall be required to re-clean the contained work area and re-encapsulate all specified surfaces. All costs associated with the analysis of a second and/or subsequent set(s) of TEM samples shall be borne by the Contractor.

Appendix A

Final Documentation Audit

FINAL DOCUMENTATION AUDIT

Throughout the progress of the Work, the Contractor's Supervisor or Foreman of each crew shall generate the following documentation to be submitted to the Consultant at Substantial Completion. The Contractor shall be required to submit all items listed below before final payment can be issued.

1. Air monitoring data.
2. Copies of all transport and disposal manifests.
3. Daily project log.
4. Accreditation and worker medical documentation for all Contractor employees.
5. Copy of Contractor's Ohio Abatement License.
6. Copy of Contractor’s Workers Compensation/Insurance Certificates.
7. Safety Data Sheets on all chemicals used on the project.
8. Landfill forms/dump receipts.

Close out documentation shall be forwarded to the Consultant within 30 calendar days upon completion of the project

SECTION 116800 - PLAYGROUND EQUIPMENT AND STRUCTURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Play equipment must be selected from the approved manufacturers identified in these specifications.

B. Section Includes:

1. Freestanding playground equipment and structures.
2. Composite playground equipment and structures.

C. Related Sections:

1. Division 033000 Section "Cast-in-Place Concrete" for concrete footings.
2. Section 321816 "Playground Protective Surfacing" for protective surfacing under and around playground equipment.

1.3 DEFINITION

A. ASTM: American Society for Testing and Materials.

B. Fall Height: According to ASTM F 1487, "the vertical distance between a designated play surface and the protective surfacing beneath it."

C. IPEMA: International Play Equipment Manufacturers Association.

D. Use Zone: According to ASTM F 1487, "the area beneath and immediately adjacent to a play structure that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."

E. CPSC: Consumer Product Safety Council.

F. OSFC: Ohio School Facilities Commission.

G. ADA: Americans with Disabilities Act.

1.4 SUBMITTALS

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

B. Shop Drawings: Show fabrication and installation details for new playground equipment and structures.

1. Extent of surface systems and use zones for equipment.
2. Critical heights for playground surface, or fall heights for equipment.
3. Recommended child ages for equipment.
4. Configured equipment child capacity.
5. ADA breakdown listing by type and quantity per type.

C. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.

1. Posts and Rails: Not less than 6 inches long.
2. Platforms: Not less than 6 inches square.
3. Molded Plastic: Not less than 3 inches square.
4. Panels: Not less than 6 inches square.

D. Product Certificates: For each type of playground equipment, signed by product manufacturer.

E. Installer Certificates: Signed by manufacturers certifying that installers comply with requirements.

F. Material Certificates: For the following items, signed by manufacturers:

1. Shop finishes.
2. Recycled plastic.

G. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for playground equipment.

H. Maintenance Data: For playground equipment and finishes to include in maintenance manuals.

I. Warranty: Special warranty specified in this Section.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An employer of workers trained and approved by manufacturer.

B. Manufacturer Qualifications.

1. Select a manufacturer from the list of approved manufacturers below.
2. A firm whose playground equipment components have been certified by IPEMA's third-party product certification service.

a. Provide playground equipment and play structure components bearing the IPEMA Certification Seal.

C. Play equipment shall conform to current requirements of the OSFC manual.

D. Safety Standards: Provide playground equipment complying with or exceeding requirements in the following:

1. ASTM F 1487.
2. CPSC No. 325.

E. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination."

1.6 WARRANTY

A. Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of playground equipment that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - GENERAL

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Acceptable Manufacturers:

a. GameTime: 150 Gametime Drive, Fort Payne, Alabama 35967.
b. Landscape Structures Inc.: 601 7th Street South, Delano, Minnesota 55328-0198.
c. Playworld Systems, Inc.: 1000 Buffalo Road, Lewisburg, Pennsylvania 17837-9795.

2. Basis-of-Design Product: The design for each configured structure and/or piece of playground equipment is based on the product named for the system provided by Playworld. Additionally, this specification will also serve to define the minimum product requirements to be met or exceeded.

a. Provide the specified basis-of-design named product or comparable products by one of the other listed acceptable manufacturers. Comparable product is subject to compliance with the most current industry standards and will meet or exceed requirements set out in the construction bid documents.
b. Contractor is responsible for verifying that accepted equipment can be assembled and fit into the spaces provided.

3. Age-Appropriate Play Areas:

a. The play areas should be contiguous.
b. Any referenced safety standards that refer to the ages of children for design purposes shall be understood as follows:

1) Pre-K through 1st grade will be considered ages 2 to 5.
2) 1st grade to 6th grade shall be considered ages 5 to 12.

2.2 PLAYGROUND EQUIPMENT FABRICATION

A. Assemble items in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.

B. Equipment shall be free of points, sharp edges and protrusions that may cut or puncture; or that may snag clothing or body parts.

C. Equipment shall be free of openings or angles that may entrap body.

D. Provide necessary rebates, lugs, and brackets to assemble units and to attach to other work. Cut, reinforce, drill, and tap to receive finish hardware, screws, and similar items, unless otherwise indicated.

1. Equipment shall have vandal-proof connectors that cannot be loosened or unfastened without tools.

E. Play Surfaces: Provide manufacturer's standard elevated drainable decks, platforms, landings, walkways, ramps, and similar transitional play surfaces, designed to withstand loads; fabricated from perforated or expanded metal made into floor units with slip-resistant climbing and walking surfaces. Fabricate units in manufacturer's standard modular sizes and shapes to form assembled play surfaces indicated.

F. Equipment shall have components that drain freely and do not collect standing water.

G. Elevated Play Surfaces: Guardrails or protective barriers completely surround elevated play surface except for access openings, if play-surface heights above protective surfacing exceed the following for use by age group indicated.

1. Elevated surface greater than 20 inches intended for use by children ages 2 through 5.
2. Elevated surface greater than 30 inches intended for use by children ages 5 through 12.

H. Stepped Play Surfaces: Provide manufacturer's standard infill between stepped platforms according to referenced standards and where indicated on Drawings.

I. Protective Barriers and Guardrails: Fabricate according to ASTM F 1487 and as follows:

1. Welded metal pipe or tubing with vertical bars.
2. Steel sheet with openings for vision and ventilation.
3. Welded metal-pipe or -tubing frame with woven wire mesh infill panels.
4. Opaque plastic panels with openings.

J. Handrails: Welded metal pipe or tubing, OD between 0.95 and 1.55 inches. Provide handrails at height for use by age group indicated below.

1. Ages: Between 2 and 5 and 5 and 12 years.
2. Height of Top Surface: 29 inches intended for use by children aged 2 through 5 and 38 inches intended for use by children aged 5 through 12.
3. Close exposed ends of handrails with returns with clearance of 1/4 inch or less.

2.3 PRE-K TO 1ST GRADE PLAYGROUND COMPOSITE STRUCTURE COMPONENTS

A. Landscape Structures:

1. Playworld Natural Bridge Structure (Product No. 350-1816) Components:

a. Ribbon Climber.
b. Rock Climber.
c. Glide Slide.
d. Playwood Arch Bridge.
e. Glide Slide.
f. Post Mount Wheel.

g. Transfer Station w/ Steps.
h. Animal Locater Panel (deck).
i. Storefront (ground).

2.4 FREESTANDING PLAYGROUND COMPONENTS

A. Landscape Structures:

1. Other Equipment

a. Classic Standard Swings 6-Seats, Product No. SWING-8-6.
b. Motion Play Bernie Bus, Product No. ZZXX0622
c. Balance Beam: Curved, Product No. ZZXX1020.
d. Sensory Play Music Panels Music Center, Product No. 250-1430.

2.5 SIGNAGE

A. Furnish and install age appropriate signage per the Drawings.

2.6 FINISHES, GENERAL

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - GENERAL

3.1 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, site surface and subgrade drainage, and other conditions affecting performance.

1. Do not begin installation before final grading required for placing protective surfacing is completed, unless otherwise permitted by Landscape Architect.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Verify locations of playground perimeter and pathways. Verify that playground layout and equipment locations comply with requirements for each type and component of equipment.

B. Contractor shall provide and erect a temporary construction fence around any and all construction and material staging areas. The fence, specified elsewhere, shall be closed and locked whenever the Contractor is not on site. Fences shall be maintained daily.

1. The contractor shall additionally provide and install signage reading “Keep Out – Playground Under Construction” on temporary fencing as required (minimum of 3 per area and 1 on the lockable gate).

3.3 INSTALLATION, GENERAL

A. General:

1. Install all equipment and structures per the manufacturer’s written installation instructions, methods of installation, details and specifications, unless more stringent requirements are indicated.

a. Installations shall comply with CPSC and ASTM guidelines.
b. Anchor play equipment securely, positioned at locations and elevations indicated.
c. Maintain safety zones indicated on the plans and as required by IPEMA and CPSC requirements. Violation of safety zones will be cause for rejection of the work.

2. Maximum Equipment Height: Coordinate installed heights of equipment and components with finished elevations of protective surfacing. Set equipment so fall heights and elevation requirements for age group use and accessibility are within required limits. Verify that playground equipment elevations comply with requirements for each type and component of equipment.

B. Post and Footing Excavation: Excavate holes for posts and footings as required in firm, undisturbed or compacted subgrade soil.

1. Set equipment posts per manufacturer’s recommendations with concrete footing. Protect portion of posts above footing from concrete splatter. Verify that posts are set plumb or at the correct angle, alignment, height, and spacing.

a. Place concrete around posts and vibrate or tamp for consolidation. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.

2. Embedded Items: Use setting drawings and manufacturer's written instructions to ensure correct installation of anchorages for equipment.
3. Concrete Footings: Smooth top, and shape to shed water.

3.4 FIELD QUALITY CONTROL

A. Arrange for an independent certified playground inspector to inspect playground, playground equipment, and components during installation and at final completion and to certify compliance with the following:

1. ASTM F 1487.
2. CPSC No. 325.

B. Notify Landscape Architect 48 hours in advance of date and time of final inspection.

C. Submit a written inspection report, certifying compliance, or indicating corrections in order to obtain compliance.

3.5 CLEANING

A. After completing installation, inspect components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.

3.6 MAINTANENCE KIT

A. A complete maintenance kit, which is supplied by the manufacturer with each structure, shall be relinquished by the contractor to the Owner upon project completion.

END OF SECTION 116800

SECTION 321816.13 - PLAYGROUND PROTECTIVE SURFACING

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. Section Includes:
   1. Organic loose-fill surfacing.

1.3 DEFINITIONS

A. Definitions in ASTM F 2223 apply to Work of this Section.

B. Critical Height: Standard measure of shock attenuation according to ASTM F 2223; same as "critical fall height" in ASTM F 1292. According to ASTM F 1292, this approximates "the maximum fall height from which a life-threatening head injury would not be expected to occur."

C. SBR: Styrene-butadiene rubber.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For each type of protective surfacing.

   1. Include plans, sections, placement and penetration details, and attachment to substrates.
   2. Include accessories and edge terminations.
   3. Include fall heights and use zones for equipment and structures specified in Section 116800 "Play Field Equipment and Structures," coordinated with the critical heights for protective surfacing.

C. Samples for Initial Selection: For each type of exposed finish.

   1. Include Samples of accessories involving color selection.

D. Samples for Verification: For each type of protective surfacing and exposed finish.
   1. Loose-Fill Surfacing: Minimum 1 quart.

E. Product Schedule: For protective surfacing use same designations indicated on Drawings.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and testing agency.

B. Material Certificates: For each type of loose-fill surfacing.

C. Field quality-control reports.

D. Sample Warranty: For manufacturer's special warranty.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For playground protective surfacing to include in maintenance manuals.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.8 WARRANTY

A. Special Warranty: Manufacturer and Installer agree to repair or replace components of protective surfacing that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Reduction in impact attenuation as measured by reduction of critical fall height.
b. Deterioration of protective surfacing and other materials beyond normal weathering.

2. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain protective surfacing materials, including loose-fill accessories, from single source from single manufacturer.

1. Provide geosynthetic accessories of each type from source recommended by manufacturer of protective surfacing materials.

2.2 PERFORMANCE REQUIREMENTS

A. Impact Attenuation: Critical fall height tested according to ASTM F 1292.

B. Accessibility Standard: Minimum surfacing performance according to ASTM F 1951.

2.3 ORGANIC LOOSE-FILL SURFACING

A. Engineered Wood Fiber: ASTM F 2075; containing no bark, leaves, twigs, or foreign or toxic materials; tested for accessibility according to ASTM F 1951.

a. Basis-of-Design Product: GameTime; GT Impax Fiber; (800) 235-2440 or a comparable product of one of the following:.

2. Other Available Products:

a. Zeager Recreational Surfacing; (888)346-8524
b. Fibar, Inc.; Fibar System 300; (800) 342-2721.
c. Irvine Wood Recovery; (866)831-8873.
d. New England Playground Surfacing; Playground Safety Fiber; (800) 888-7529.

3. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 95 percent.
4. Critical Height: Confirm critical fall height with play equipment manufacturer(s) prior to installing Organic Loose-Fill Surface.
5. Uncompressed Material Depth: Not less than as required for critical height indicated.

2.4 LOOSE-FILL ACCESSORIES

A. Edging: Anchored-in-place, weather-resistant containment barrier designed to minimize sharp edges, protrusions, and tripping hazards; formed by interconnected, modular units.Retain "Polyethylene Units," "Metal Units," or "Rubber Units" Subparagraph below; if retaining more than one, indicate locations of each on Drawings or by inserts.

1. Rubber Units: Compression molded from SBR, in manufacturer's standard sizes.

a. Color: As selected from manufacturer's full range.

B. Stabilizing Mats: Water-permeable PVC or rubber mats tested for impact attenuation according to ASTM F 1292, with anchoring system designed to anchor mat securely to subgrade through loose fill, and rated for use in the following locations:

1. Under and in Front of Slide Exits.
2. Under and Around Swings.
3. Around Transfer Stations at Accessible Perimeter At finished grade of protective surfacing.
4. At high-traffic areas and playground equipment where indicated on Drawings.
5. Size: minimum 36 by 36 inches; maximum 48 by 48 inches.
6. Color(s): As indicated by manufacturer's designations.

2.5 GEOSYNTHETIC ACCESSORIES

A. Drainage/Separation Geotextile: Nonwoven, needle-punched geotextile, manufactured for drainage applications and made from polyolefins or polyesters; with the following minimum properties:

1. Weight: 4 oz. /sq. yd. according to ASTM D 5261.
2. Water Flow Rate: 100 gpm/sq. ft. according to ASTM D 4491.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for subgrade elevations, slope, and drainage and for other conditions affecting performance of the Work.

1. Verify that substrates are sound and without high spots, ridges, holes, and depressions.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Prepare substrates to receive surfacing products according to protective surfacing manufacturer's written instructions.

1. Repair: Fill holes and depressions in unsatisfactory surfaces with leveling and patching material.
2. Treatment: Mechanically abrade or otherwise prepare concrete substrates according to protective surfacing manufacturer's written instructions to achieve adequate roughness.
3. Terminal Edges: Saw cut [concrete] [asphalt] for terminal edges of protective surfacing.
4. Treat control joints and other nonmoving substrate cracks to prevent telegraphing through protective surfacing.

3.3 INSTALLATION OF GEOSYNTHETIC ACCESSORIES

A. Install geosynthetic accessories before edging and according to playground surface system manufacturer's and geosynthetic manufacturer's written instructions and in a manner that cannot become a tripping hazard.

1. Drainage/Separation Geotextile: Completely cover area beneath protective surfacing, overlapping geotextile sides and edges a minimum of 8 inches with manufacturer's standard treatment for seams.

3.4 INSTALLATION OF LOOSE-FILL SURFACING

A. Apply components of loose-fill surfacing according to manufacturer's written instructions to produce a uniform surface.

B. Edging: Place and permanently secure edging in place, and attach units to each other.

C. Loose Fill: Place loose-fill materials to required depth after installation of playground equipment support posts and foundations. Include manufacturer's recommended amount of additional material to offset natural compaction over time.

D. Stabilizing Mats: Coordinate installation of mats and mat anchoring system with placing and compacting of loose fill.

E. Grading: Uniformly grade loose fill to an even surface free from irregularities.

F. Compaction: After initial grading, mechanically compact loose fill before finish grading.

G. Finish Grading: Hand rake to a uniformly smooth finished surface and to required elevations.

3.5 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests.

B. Perform the following tests[with the assistance of a factory-authorized service representative]:

1. Perform "Installed Surface Performance Test" according to ASTM F 1292 for each protective surfacing type and thickness in each playground area.
2. Perform installed-surface-performance tests at no less than one series of tests for each 1000 sq. ft. of each type and thickness of in-place protective surfacing or part thereof.

C. Playground protective surfacing will be considered defective if it does not pass tests.

D. Prepare test reports.

END OF SECTION 321816.13

SECTION 323300 - SITE FURNISHINGS

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. Section Includes:

1. Benches.

B. Related Requirements:

1. Section 033000 "Cast-In-Place Concrete" for foundations for site furnishings.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For each exposed product and for each color and texture specified.

C. Samples for Verification: For each type of exposed finish, not less than 6-inch- long linear components and 4-inch- square sheet components.

D. Product Schedule: For site furnishings. Use same designations indicated on Drawings.

1.4 INFORMATIONAL SUBMITTALS

A. Material Certificates: For site furnishings.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For site furnishings to include in maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

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1. Anchors: Two units for each type indicated.

PART 2 - PRODUCTS

2.1 BENCHES

A. Manufacturer: 6’ Heritage Bench manufactured by Belson Outdoors; (800) 323-5664.

1. Stand-alone, bench with back, six-foot, heavy-duty cast aluminum frame, and recycled plastic 2 x 4 slats.

B. Material:

1. Frame: Aluminum frame.
2. Seats: Recycled plastic slats.
3. Fasteners: Stainless steel.

C. Finishes:

1. Frame: Black powdercoat.

2. Seats: Cedar color recycled plastic resinwood slats.

D. Dimensions:

1. 6’ Bench: 72.5 inches long x 22 inches wide x 30 inches high.

E. Installation: Surface mount. Provide mounting plates, anchors and stainless steel mounting screws.

2.2 FABRICATION

A. Metal Components: Form to required shapes and sizes with true, consistent curves, lines, and angles. Separate metals from dissimilar materials to prevent electrolytic action.

B. Welded Connections: Weld connections continuously. Weld solid members with full-length, full-penetration welds and hollow members with full-circumference welds. At exposed connections, finish surfaces smooth and blended so no roughness or unevenness shows after finishing and welded surface matches contours of adjoining surfaces.

C. Pipes and Tubes: Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of handrail and railing components.

D. Exposed Surfaces: Polished, sanded, or otherwise finished; all surfaces smooth, free of burrs, barbs, splinters, and sharpness; all edges and ends rolled, rounded, or capped.

E. Factory Assembly: Assemble components in the factory to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

2.3 GENERAL FINISH REQUIREMENTS

A. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.4 ALUMINUM FINISHES

A. Baked-Enamel, Powder-Coat Finish: Manufacturer's standard, baked, polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

2.5 STAINLESS-STEEL FINISHES

A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.

1. Manufacturer’s standard finish.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.

B. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.

C. Install site furnishings level, plumb, true, and securely anchored at locations indicated on Drawings.

3.3 ADJUSTING

A. Finish Damage: Repair minor damages to finish in accordance with manufacturer’s instructions and as approved by Architect.

B. Component Damage: Remove and replace damaged components that cannot be successfully repaired as determined by Architect.

3.4 CLEANING

A. Clean furnishings promptly after installation in accordance with manufacturer's instructions.

B. Do not use harsh cleaning materials or methods that could damage finish.

3.5 PROTECTION

A. Protect installed furnishings to ensure that, except for normal weathering, furnishings will be without damage or deterioration at time of Substantial Completion.

END OF SECTION 323300

MODEL

EARLY CHILDOOD RENOVATION

825 WAYCROSS ROAD, CINCINNATI, OH 45240

SHP

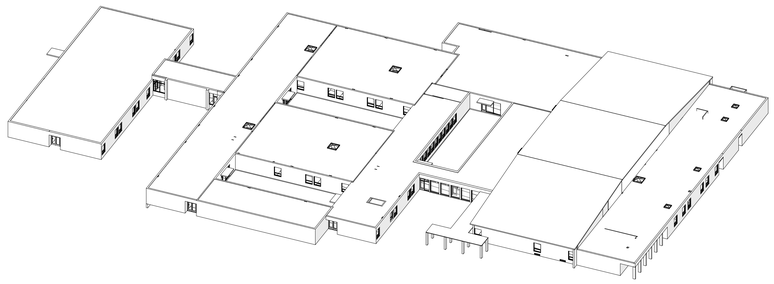
SHP - ARCHITECT
312 Plum Street, Suite 700, Cincinnati, OH 45202
PHONE: (513) 381-2112 FAX: (513) 381-5121

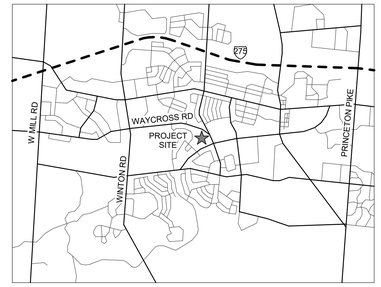
GOP LIMITED - STRUCTURAL ENGINEER
644 Linn Street, Suite 936, Cincinnati, OH 45203-1738
PHONE: (513) 621-7073 FAX: (513) 621-0434

SHP - PME ENGINEER
312 Plum Street, Suite 700, Cincinnati, OH 45202
PHONE: (513) 381-2112 FAX: (513) 381-5121

THE KLEINGERS GROUP - CIVIL ENGINEER
6219 Centre Park Drive, West Chester, OH 45069
PHONE: (513) 779-7851 FAX: (513) 779-7852

THE KLEINGERS GROUP - LANDSCAPE ARCHITECT
6219 Centre Park Drive, West Chester, OH 45069
PHONE: (513) 779-7851





VICINITY MAP
NTS

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A301 ENLARGED STAIR & RAMP PLANS
A401 FIRST FLOOR REFLECTED CEILING PLAN - AREA A
A402 FIRST FLOOR REFLECTED CEILING PLAN - AREA B
A403 FIRST FLOOR REFLECTED CEILING PLAN - AREA C
A501 SECTIONS
A601 FIRST FLOOR FINISH PLAN - AREA A
A602 FIRST FLOOR FINISH PLAN - AREA B
A603 FIRST FLOOR FINISH PLAN - AREA C
A640 INTERIOR ELEVATIONS
A641 INTERIOR ELEVATIONS & DETAILS

FURNITURE
FC101 FIRST FLOOR FURNITURE COORDINATION PLAN - AREA A
FC102 FIRST FLOOR FURNITURE COORDINATION PLAN - AREA B
FC103 FIRST FLOOR FURNITURE COORDINATION PLAN - AREA C

FOOD SERVICES
FS101 FOOD SERVICE EQUIPMENT FLOOR PLAN
FS102 FOOD SERVICE EXHAUST SYSTEM DETAILS

STRUCTURAL
S000 GENERAL NOTES, DESIGN LOADS & ABBREVIATIONS
S100 FOUNDATION / ROOF FRAMING PLAN
S400 SECTIONS AND DETAILS

PLUMBING
P000 PLUMBING SCHEDULES AND LEGENDS
P011 PLUMBING DEMOLITION PLAN AREA A
P012 PLUMBING DEMOLITION PLAN AREA B
P013 PLUMBING DEMOLITION PLAN AREA C
P101 FOUNDATION PLUMBING PLAN AREA A
P102 FOUNDATION PLUMBING PLAN AREA B
P103 FOUNDATION PLUMBING PLAN AREA C
P201 FIRST FLOOR PLUMBING PLAN AREA A
P202 FIRST FLOOR PLUMBING PLAN AREA B
P203 FIRST FLOOR PLUMBING PLAN AREA C
P300 ENLARGED KITCHEN PLUMBING PLAN
P400 WASTE AND VENT ISOMETRICS - AREAS A & B
P401 WASTE AND VENT ISOMETRICS - AREA C
P402 SUPPLY ISOMETRICS - AREA A & B
P403 SUPPLY ISOMETRICS - AREA B & C

MECHANICAL
M000 MECHANICAL SCHEDULES, LEGENDS AND DETAILS
M010 MECHANICAL RENO DEMOLITION PLAN AREA A
M011 MECHANICAL RENO DEMOLITION PLAN AREA B
M100 FIRST FLOOR RENO DUCTWORK PLAN AREA A
M101 FIRST FLOOR RENO DUCTWORK PLAN AREA B
M102 FIRST FLOOR RENO DUCTWORK PLAN AREA C

ELECTRICAL
E000 ELECTRICAL LEGENDS
E010 FIRST FLOOR DEMO PLAN AREA A
E011 FIRST FLOOR DEMO PLAN AREA B
E012 FIRST FLOOR DEMO PLAN AREA C
E100 FIRST FLOOR LIGHTING PLAN AREA A
E101 FIRST FLOOR LIGHTING PLAN AREA B
E102 FIRST FLOOR LIGHTING PLAN AREA C
E200 FIRST FLOOR POWER PLAN AREA A
E201 FIRST FLOOR POWER PLAN AREA B
E202 FIRST FLOOR POWER PLAN AREA C
E203 ROOF POWER PLAN
E300 FIRE ALARM PLAN AREA A
E301 FIRE ALARM PLAN AREA B
E302 FIRE ALARM PLAN AREA C
E400 PANEL SCHEDULES
E401 PANEL SCHEDULES
E402 PANEL SCHEDULES
E403 PANEL SCHEDULES
E500 ELECTRICAL DETAILS
E501 LIGHTING CONTROL DETAILS
E502 LIGHTING CONTROL DETAILS
E520 ENLARGED KITCHEN PLAN
E600 ELECTRICAL SINGLE LINE DIAGRAM

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STATE OF OHIO
EMMA K. PEVOAR
2118434
REGISTERED ARCHITECT

EMMA K. PEVOAR, Lic# 2118434
Expiration Date 12/31/2023

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WINTON WOODS CITY SCHOOLS
EARLY CHILDOOD RENOVATION
825 WAYCROSS ROAD, CINCINNATI, OH 45240

WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

ISSUANCES

	04-28-23	BID / PERMIT
1	05-25-23	ADDENDUM 1
2	06-06-23	ADDENDUM 2

TITLE SHEET

DATE 4/28/23

COMM NO. 2021091.02

G000

0.1" REFERENCE LINE

C:\Users\epevoar\Documents_LFile23\2021091.02 Winton Woods Early Childhood Reno_epevoar.rvt

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GENERAL NOTES

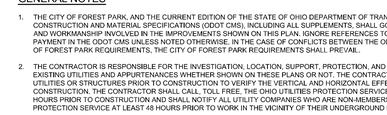
1. THE CITY OF FOREST PARK, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE ODOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE ODOT CMS AND THE CITY OF FOREST PARK REQUIREMENTS, THE CITY OF FOREST PARK REQUIREMENTS SHALL PREVAIL.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
3. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
4. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS.
5. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THEM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.
6. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION, ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
7. THE COST OF ALL DEWATERING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
8. THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
9. ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
10. ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05 IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: DIVISION OF WATER, OHIO DEPARTMENT OF NATURAL RESOURCES, FOUNTAIN SQUARE, COLUMBUS, OHIO 43224, (614)2656717.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE ODNR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
12. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
13. ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE SAWCUT BEFORE REMOVAL, IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC. IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGED AREA SHALL BE RECUT TO NEAT LINES AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
15. THE CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH BUTT JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE. INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.

GRADING NOTES

1. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
2. PROTECTION OF EXISTING TREES AND VEGETATION. PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
3. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
4. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTECHNICAL ENGINEER'S AND ARCHITECT'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
5. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR BURY/BORROW PITS AS NEEDED TO BALANCE THE SITE. GEOTECH AND ENGINEER MUST APPROVE AREAS PRIOR TO BURY/BORROW OPERATIONS. AS-BUILT OF BURY/BORROW PIT WILL BE REQUIRED AT COMPLETION OF CONTRACTOR WORK AND MUST BE SUBMITTED TO THE CONSTRUCTION MANAGER.
7. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY CITY OF FOREST PARK AND THE OHIO EPA.
8. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.
9. CONTRACTOR TO LAYOUT BUILDING BASED ON ARCHITECTURAL/FOUNDATION PLANS. SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY.

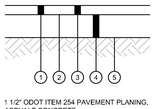
UTILITY NOTES

1. ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
2. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION. PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
4. UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
6. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
7. ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
8. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH, COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
9. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND VEGETATIVE STABILIZATION.
10. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
11. SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
12. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE PIPE PER ODOT ITEM 707.43, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE. ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS.
13. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
14. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
15. THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.



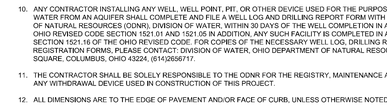
1. 6X6 W4XW4 WELDED WIRE REINFORCEMENT
2. 8" ODOT ITEM 452 NONREINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
3. 6" ODOT ITEM 304 AGGREGATE BASE
4. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

HEAVY DUTY CONCRETE PAVEMENT DETAIL (3/C100) N.T.S.



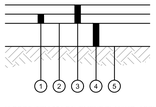
1. 1 1/2" ODOT ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
2. ODOT ITEM 407 TACK COAT
3. 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
4. EXISTING PAVEMENT SECTION
5. EXISTING SUBGRADE

ASPHALT PAVEMENT PLANING AND OVERLAY DETAIL (4/C100) N.T.S.



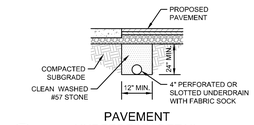
1. 6X6 W4XW4 WELD WIRE REINFORCEMENT
2. 6" ODOT ITEM 452 NONREINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
3. 6" ODOT ITEM 304 AGGREGATE BASE
4. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

STANDARD DUTY CONCRETE PAVEMENT DETAIL (5/C100) N.T.S.

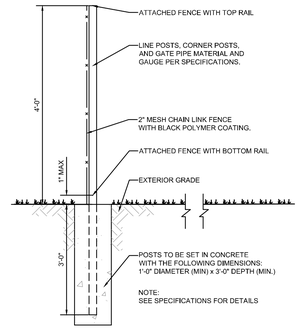


1. 1" ODOT ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
2. ODOT ITEM 407 TACK COAT
3. 2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
4. EXISTING PAVEMENT SECTION
5. EXISTING SUBGRADE

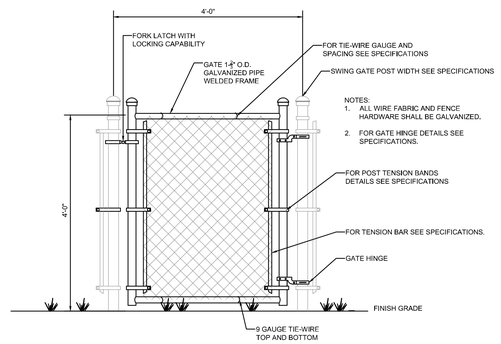
ASPHALT PAVEMENT PLANING AND OVERLAY DETAIL (6/C100) N.T.S.



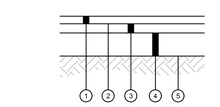
PAVEMENT UNDERDRAIN DETAIL (7/C100) N.T.S.



4' VINYL COATED CHAIN LINK FENCE (8/C100) N.T.S.

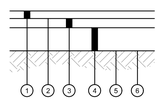


VINYL COATED 4' CHAIN LINK FENCE GATE DETAIL (9/C100) N.T.S.



1. 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2. ODOT ITEM 407 TACK COAT
3. 2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. 8" ODOT ITEM 304 AGGREGATE BASE
5. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

STANDARD DUTY ASPHALT PAVEMENT DETAIL (1/C100) N.T.S.



1. 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2. ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
3. 4" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. 8" ODOT ITEM 304 AGGREGATE BASE
5. WOVEN GEOTEXTILE FABRIC, ODOT ITEM 712.09 TYPE D
6. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

HEAVY DUTY ASPHALT PAVEMENT DETAIL (2/C100) N.T.S.

OHIO811.org Before You Dig

NOTE: UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

THE KLEINGERS GROUP
CIVIL ENGINEERING
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86 North 4th Street, Ste 111 | Columbus, Ohio 43201 | 614.423.2124
312 Plum Street, Ste 700 | Cincinnati, Ohio 45202 | 513.381.2112

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825 WAYCROSS ROAD, CINCINNATI, OH 45240

WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

ISSUANCES

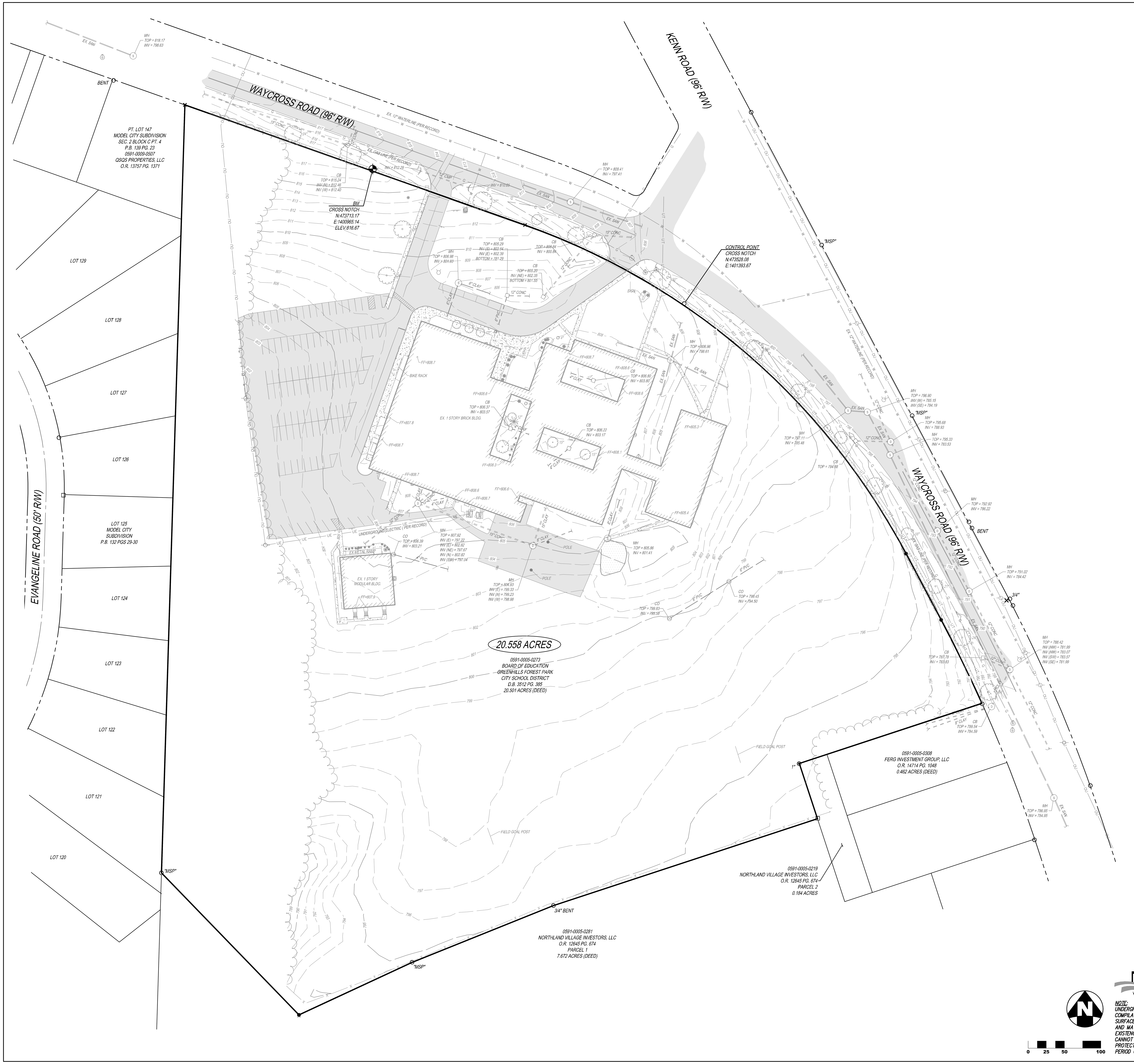
04-28-23	BID / PERMIT
05-25-23	ADDENDUM 1
06-08-23	ADDENDUM 2

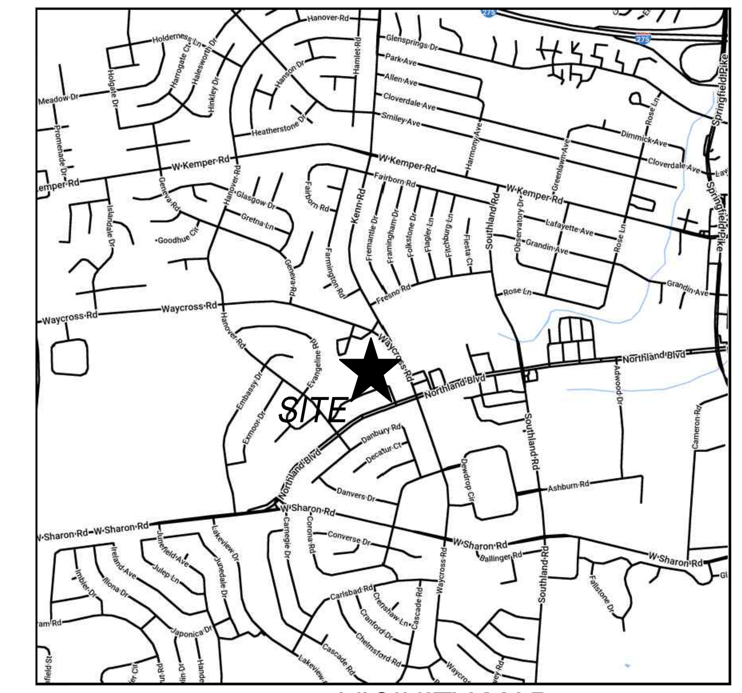
GENERAL NOTES & DETAILS

DATE 5/25/23

COMM NO. 2021091.02

C100





VICINITY MAP
N.T.S

LEGEND

- 5/8" IRON PIN FOUND (UNLESS OTHERWISE NOTED)
- PIPE FOUND (SIZE AS NOTED)
- CONCRETE MONUMENT FOUND
- 5/8" IRON PIN SET (KLEINGERS)
- CROSS NOTCH SET
- CATCH BASIN
- DOWN SPOUT
- STORM MANHOLE
- SANITARY MANHOLE
- CLEAN OUT
- ELECTRIC BOX
- ELECTRIC MANHOLE
- TRANSFORMER
- UTILITY POLE
- FIRE HYDRANT
- WATER METER
- GAS VALVE
- TELEPHONE MANHOLE
- TELEPHONE BOX
- TRAFFIC SIGNAL POLE
- BASKETBALL HOOP
- BUSH
- FENCE POST
- FLAG POLE
- SIGN (SINGLE POST)
- DECIDUOUS TREE
- X — FENCE LINE
- TREE LINE
- GUARD RAIL
- OU — OVERHEAD UTILITY
- UE — UNDERGROUND ELECTRIC
- UT — UNDERGROUND TELEPHONE
- G — GAS LINE
- W — WATERLINE
- SANITARY SEWER
- STORM SEWER
- ASPHALT
- CONCRETE
- GRAVEL
- LANDSCAPING

NOTES:

1. SOURCE DOCUMENTS AS NOTED.
2. OCCUPATION IN GENERAL FITS SURVEY.
3. MONUMENTATION IS IN GOOD CONDITION UNLESS OTHERWISE NOTED.
4. ALL IRON PINS SET ARE 5/8" DIAMETER x 30" IRON REBAR WITH ID CAP STAMPED "KLEINGERS".
5. BEARINGS ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AS DERIVED FROM THE OHIO DEPARTMENT OF TRANSPORTATION'S VIRTUAL REFERENCE STATIONING (VRS). (NAD '83 - 2011)
6. ELEVATIONS ARE BASED ON NGVD 29, AS REFERENCED TO HAMILTON COUNTY BENCHMARK NO. F-014.
7. SITE BENCHMARK AS SHOWN HEREON.

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E-78397
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PROFESSIONAL ENGINEER

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Columbus, Ohio 43201
614.223.2124
3 Fairfield Avenue, Ste 100
Bellevue, Kentucky 41073
859.360.1234

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EARLY CHILDOOD RENOVATION
825 WAYCROSS ROAD, CINCINNATI, OH 45240
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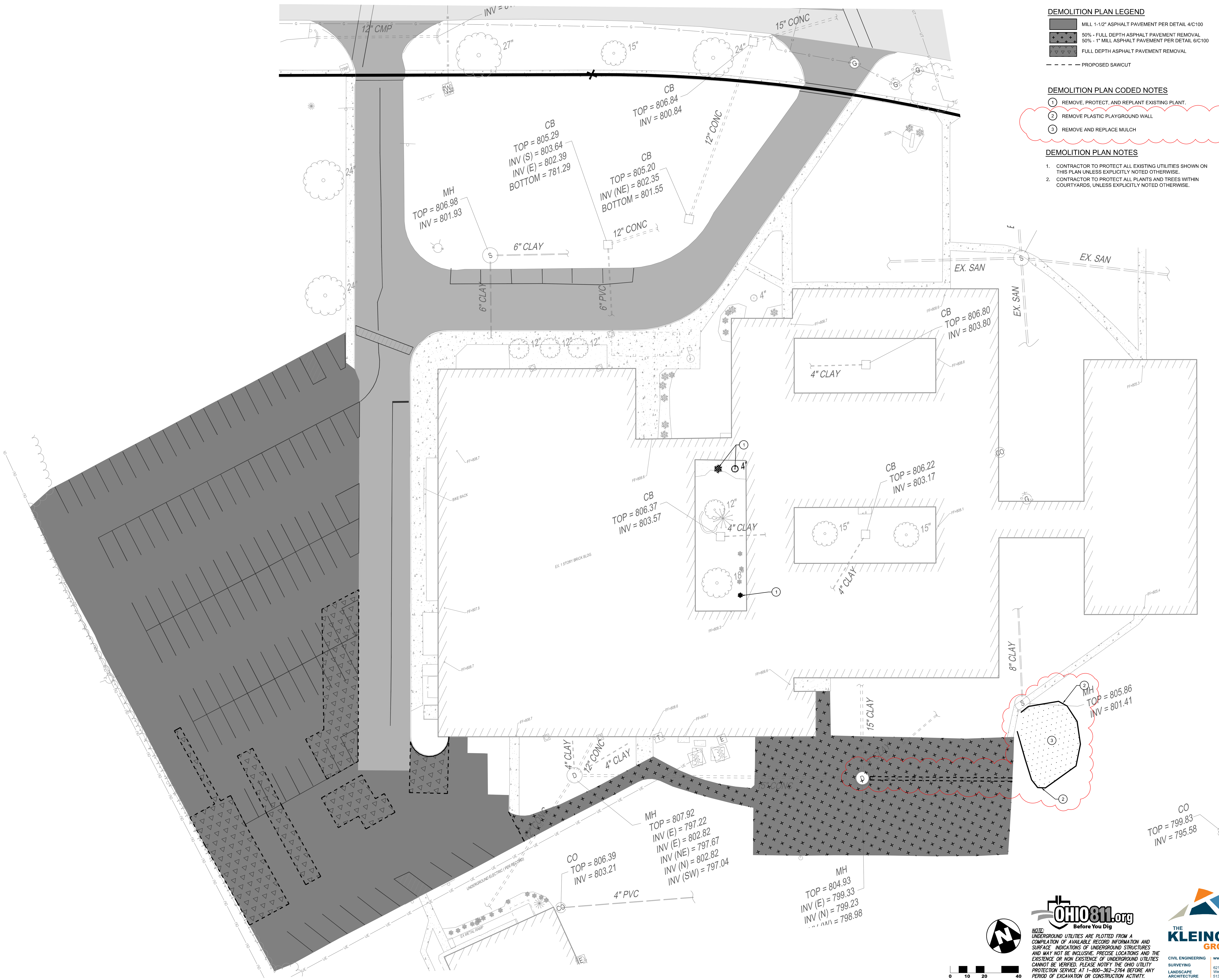
ISSUANCES	
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06-08-23	ADDENDUM 2

SURVEY BASEMAP

DATE 5/25/23

COMM NO. 2021091.02

C110



DEMOLITION PLAN LEGEND

- MILL 1-1/2" ASPHALT PAVEMENT PER DETAIL 4/C100
- 50% - FULL DEPTH ASPHALT PAVEMENT REMOVAL
  50% - 1" MILL ASPHALT PAVEMENT PER DETAIL 6/C100
- FULL DEPTH ASPHALT PAVEMENT REMOVAL
- PROPOSED SAWCUT

DEMOLITION PLAN CODED NOTES

(1) REMOVE, PROTECT, AND REPLANT EXISTING PLANT.

(2) REMOVE PLASTIC PLAYGROUND WALL

(3) REMOVE AND REPLACE MULCH

DEMOLITION PLAN NOTES

1. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES SHOWN ON THIS PLAN UNLESS EXPLICITLY NOTED OTHERWISE.
2. CONTRACTOR TO PROTECT ALL PLANTS AND TREES WITHIN COURTYARDS, UNLESS EXPLICITLY NOTED OTHERWISE.

Before You Dig

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ISSUANCES

	04-28-23	BID / PERMIT
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	06-08-23	ADDENDUM 2

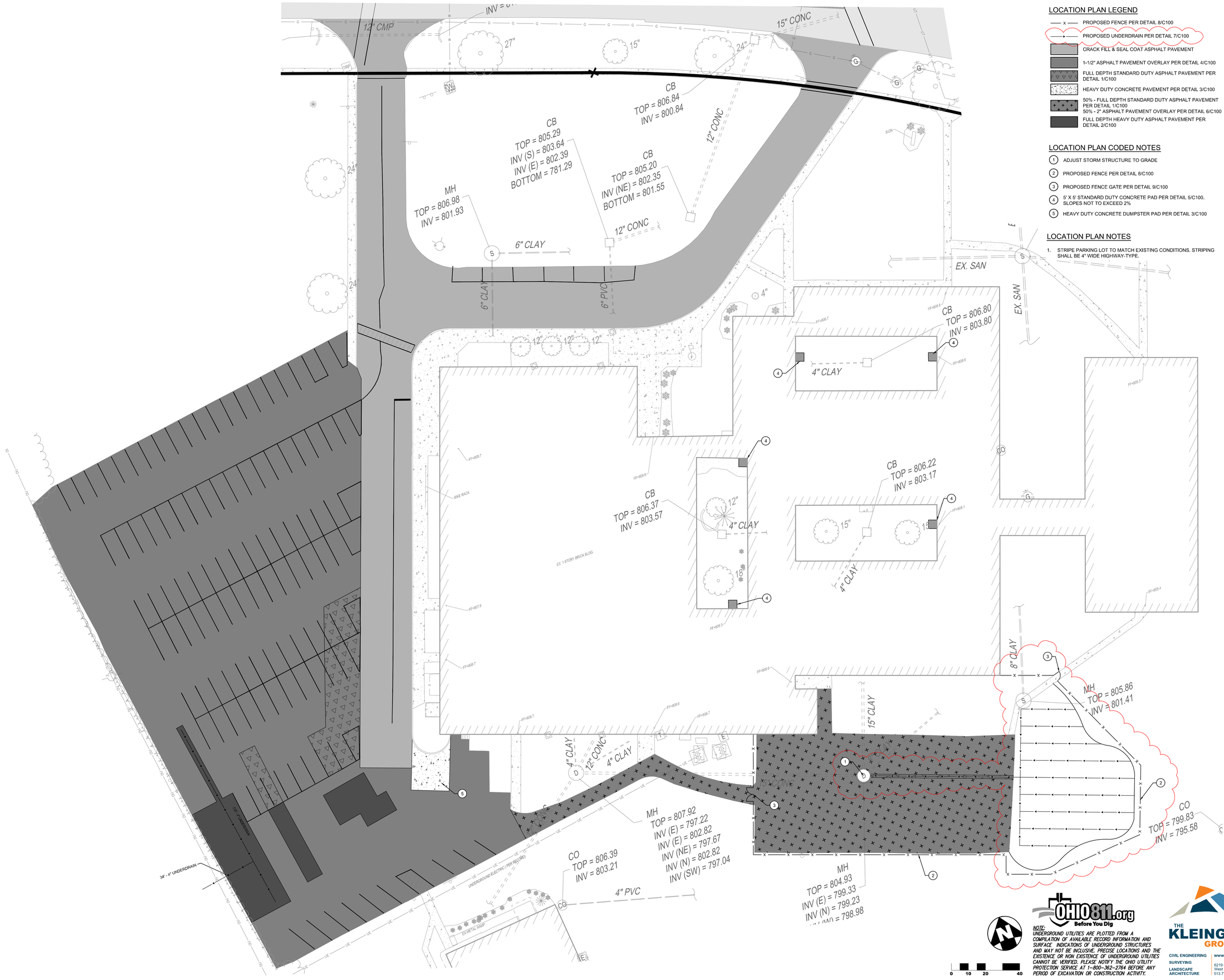
DEMOLITION PLAN

DATE 5/25/23

COMM NO. 2021091.02

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LOCATION PLAN LEGEND

- PROPOSED FENCE PER DETAIL 8/C100
- PROPOSED UNDERDRAIN PER DETAIL 7/C100
- CRACK FILL & SEAL COAT ASPHALT PAVEMENT
- 1-1/2" ASPHALT PAVEMENT OVERLAY PER DETAIL 4/C100
- FULL DEPTH STANDARD DUTY ASPHALT PAVEMENT PER DETAIL 1/C100
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL 3/C100
- 50% - FULL DEPTH STANDARD DUTY ASPHALT PAVEMENT PER DETAIL 1/C100
  50% - 2" ASPHALT PAVEMENT OVERLAY PER DETAIL 6/C100
- FULL DEPTH HEAVY DUTY ASPHALT PAVEMENT PER DETAIL 2/C100

LOCATION PLAN CODED NOTES

1. ADJUST STORM STRUCTURE TO GRADE
2. PROPOSED FENCE PER DETAIL 8/C100
3. PROPOSED FENCE GATE PER DETAIL 9/C100
4. 5' X 5' STANDARD DUTY CONCRETE PAD PER DETAIL 5/C100. SLOPES NOT TO EXCEED 2%
5. HEAVY DUTY CONCRETE DUMPSTER PAD PER DETAIL 3/C100

LOCATION PLAN NOTES

1. STRIPE PARKING LOT TO MATCH EXISTING CONDITIONS. STRIPING SHALL BE 4" WIDE HIGHWAY-TYPE.

0 10 20 40

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LOCATION PLAN

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GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR
- IP — INLET PROTECTION

NOTES

1. CONTRACTOR TO PROTECT ALL TREES AND PLANTS WITHIN COURTYARDS.

ISSUANCES		
04-28-23	BID / PERMIT
05-25-23	ADDENDUM 1
06-08-23	ADDENDUM 2

GRADING PLAN

DATE 5/25/23

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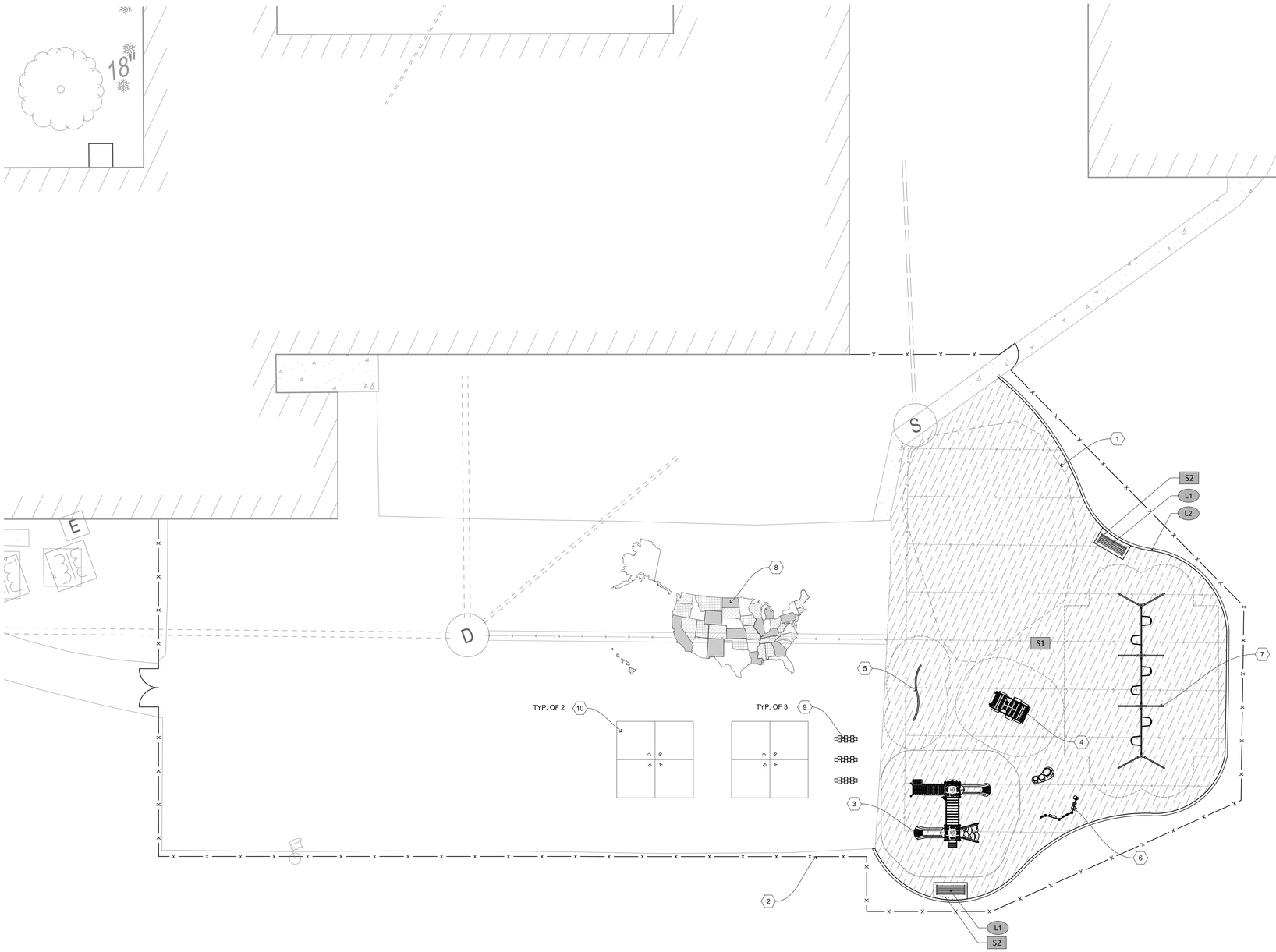
C140

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LEGEND

SURFACE ITEMS

S1	EWF PLAY SURFACE, TYP.	1/L101
S2	STANDARD CONCRETE TYP, SEE CIVIL DRAWINGS	

LANDSCAPE ITEMS

L1	BENCH, TYP.	2/L101
L2	CONCRETE CURB AT PLAYGROUND	1/L101

CODED NOTES

1. EXISTING PLAYGROUND AREA
2. PROPOSED FENCE, SEE CIVIL PLANS
3. NATURE BRIDGE PLAY STRUCTURE, SEE SPEC. 116800
4. BERNIE BUS, SEE SEE SPEC. 116800
5. BALANCE BEAM: CURVED, SEE SPEC. 116800
6. SENSORY PLAY MUSIC CENTER, SEE SPEC. 116800
7. 6-SEAT SWINGS, SEE SEE SPEC. 116800
8. PAINTED USA MAP, SEE DETAIL 3/L101
9. PAINTED HOPSCOTCH, SEE DETAIL 4/L101
10. PAINTED FOUR SQUARE, SEE DETAIL 5/L101

0 5 10 20

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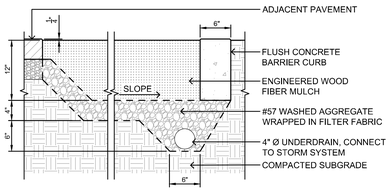
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05-25-23	ADDENDUM 1
06-08-23	ADDENDUM 2

PLAYGROUND ENLARGEMENT

DATE 5/25/23

COMM NO. 2021091.02

L100



NOTES:
1. CONTRACTOR TO PROVIDE 4" UNDERDRAINS UNDER WOOD FIBER MULCH AS SHOWN ON PLANS.
2. CONTRACTOR TO COVER BOTTOM OF ENTIRE SOFT PLAY AREA WITH DRAINAGE STONE WRAPPED TOP AND BOTTOM IN FILTER FABRIC.

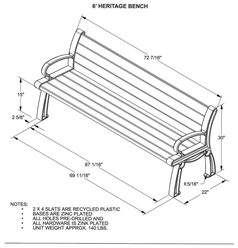
1 ENGINEERED WOOD FIBER
N.T.S.

BELSON OUTDOORS

607 Artondale Drive
Naperville, IL 60563
Phone: (800) 363-5505
Fax: (800) 363-6805
sales@belson.com

Model # PB6-HER | **Dimension Sheet**

6' HERITAGE BENCH



NOTES:
- 2 X 4 SLATS ARE RECYCLED PLASTIC
- BASES ARE ZINC PLATED
- ALL HOLES PRE-DRILLED AND
- ALL HARDWARE IS ZINC PLATED
- UNIT WEIGHT APPROX. 140 LBS.

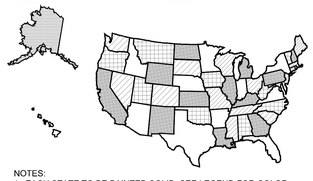
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NOTES:
1. SEE SPECIFICATION 323300.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

2 BELSON HERITAGE BENCH
NTS

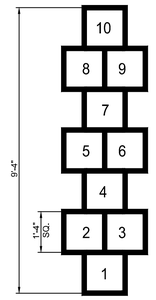
LEGEND

STATE TO BE PAINTED GREEN	STATE TO BE PAINTED BLUE
STATE TO BE PAINTED RED	STATE TO BE PAINTED YELLOW



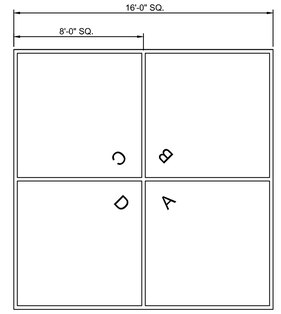
NOTES:
1. EACH STATE TO BE PAINTED SOLID. SEE LEGEND FOR COLOR.
2. MAP SIZE OF CONTINENTAL US TO BE APPROXIMATELY 16' X 30'

3 USA MAP
N.T.S.



NOTES:
1. NUMBERS TO BE 6" HIGH AND PAINTED WHITE
2. ALL LINES TO BE 2" WIDE AND PAINTED WHITE.

4 HOPSCOTCH
N.T.S.



NOTES:
1. LETTERS TO BE 6" HIGH.
2. ALL LINES TO BE 4" WIDE.
3. LINES AND LETTERS TO BE PAINTED WHITE.
4. ALL SQUARES TO BE PAINTED. A: GREEN; B: RED; C: BLUE; D: YELLOW

5 FOUR SQUARE LAYOUT
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PLAYGROUND DETAILS

DATE 5/25/23

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SIGNAGE SCHEDULE

NUMBER	NAME	SIGN NUMBER	SIGN NAME
100A	LOBBY	---	---
100B	CORRIDOR	---	---
100C	CORRIDOR	---	---
100D	CORRIDOR	---	---
100E	CORRIDOR	---	---
100F	CORRIDOR	---	---
100G	CORRIDOR	---	---
100H	CORRIDOR	---	---
100J	CORRIDOR	---	---
100K	CORRIDOR	---	---
100L	CORRIDOR	---	---
100M	CORRIDOR	---	---
100N	CORRIDOR	---	---
100V	CORRIDOR	---	---
101	PRESCHOOL CLASSROOM	101	---
101A	ELEC.	101A	ELECTRICAL
101T	RR	---	RESTROOM
102	PRESCHOOL CLASSROOM	102	---
102T	RR	---	RESTROOM
103	PRESCHOOL CLASSROOM	103	---
104T	MEN	---	MEN
105T	WOMEN	---	WOMEN
106	RESOURCE	106	---
107	RESOURCE	107	---
107A	FAMILY / ELA	---	---
108	PRESCHOOL CLASSROOM	108	---
108T	RR	---	RESTROOM
109	PRESCHOOL CLASSROOM	109	---
109T	RR	---	RESTROOM
110	PRESCHOOL CLASSROOM	110	---
111	PRESCHOOL CLASSROOM	111	---
112	PRESCHOOL CLASSROOM	112	---
112T	RR	---	RESTROOM
113T	BOYS	---	BOYS
114	JAN.	114	CUSTODIAL
115T	GIRLS	---	GIRLS
116	FAMILY / ELA	---	---
117	RESOURCE	117	---
118	RESOURCE	118	---
119	PRESCHOOL CLASSROOM	119	---
119T	RR	---	RESTROOM
120	TEACHER WORKROOM	120	---
121	PRESCHOOL CLASSROOM	121	---
121T	RR	---	RESTROOM
122	FAMILY / ELA	---	---
122	RESOURCE		
123	PRESCHOOL CLASSROOM	123	---
123T	RR	---	RESTROOM
124	RESOURCE	124	---
125	RESOURCE	125	---
126	PRESCHOOL CLASSROOM	126	---
127	GIRLS	---	GIRLS
128	BOYS	---	BOYS
129	JANITOR	129	CUSTODIAL
130	KINDERGARTEN CLASSROOM	130	---
130A	FAMILY / ELA	---	---
131	KINDERGARTEN CLASSROOM	131	---
132	RESOURCE	132	---
133	RESOURCE	133	---
134	KINDERGARTEN CLASSROOM	134	---
135	KINDERGARTEN CLASSROOM	135	---
136	KINDERGARTEN CLASSROOM	136	---
137	KINDERGARTEN CLASSROOM	137	---
138	ART CLASSROOM	138	---
138A	KILN/STOR. ROOM	138A	KILN
139	KINDERGARTEN CLASSROOM	139	---
140	TECH	140	TECHNOLOGY
141	FAMILY / ELA	---	---
142	KINDERGARTEN CLASSROOM	142	---
143	KINDERGARTEN CLASSROOM	143	---
143A	RESOURCE	143A	---
144	KINDERGARTEN CLASSROOM	144	---
145	MECHANICAL EQUIPMENT	145	MECHANICAL
146	CUSTODIAN	146	CUSTODIAL
147T	GIRLS	---	WOMEN
148T	BOYS	---	MEN
149	STORAGE	149	STORAGE
151	MUSIC	151	---
152	STORAGE	---	---

SIGNAGE SCHEDULE

NUMBER	NAME	SIGN NUMBER	SIGN NAME
153	ELECTRICAL ROOM	---	---
160A	WAITING	---	---
160B	GENERAL OFFICE	160	OFFICE
160C	WORK ROOM	---	---
161	PRINCIPAL	161	---
162	CONFERENCE ROOM	162	---
162A	VAULT	---	VAULT
163	CLINIC	163	CLINIC
164	PSYCH OFFICE	164	---
165	STOR.	165	STORAGE
166	BOOK ROOM	166	---
167	STOR.	167	STORAGE
168	FILES	168	STORAGE
169	OT/PT	169	---
169T	RR	---	RESTROOM
170	CLC	170	---
171T	RR	---	MEN
172	SPECIAL ED CLASSROOM	172	---
172A	TECH	172A	---
172B	SENSORY	172B	---
172T	RR	---	RESTROOM
173	SPECIAL ED CLASSROOM	173	---
174	SPECIAL ED CLASSROOM	174	---
174A	STORAGE	174A	STORAGE
175T	RR	---	WOMEN
176	RESOURCE	176	---
177	TALBERT	177	---
178	TALBERT	178	---
180	KINDERGARTEN CLASSROOM	180	---
180A	FAMILY / ELA	---	---
181	KINDERGARTEN CLASSROOM	181	---
182	KINDERGARTEN CLASSROOM	182	---
183	GYMNASIUM	---	GYMNASIUM
183A	GYM STORAGE	183A	STORAGE
184	PLATFORM	184	---
184A	MECH.	184A	MECHANICAL
185	MECHANICAL	185	MECHANICAL
186	LARGE MOTOR / BOE	186	---
187	STORAGE	187	STORAGE
188	KITCHEN	---	KITCHEN
189	REFRIGERATOR	---	---
189A	FREEZER ENTRY	---	REFRIGERATOR/FREEZER
190	FREEZER	---	---
191	DRY STORAGE	191	STORAGE
192	LOCKER	---	LOCKER ROOM
193	LAUNDRY & STOR.	193	LAUNDRY
194	OFFICE	194	---
195	JANITOR & STOR. RM.	195	CUSTODIAL
196	FREEZER	196	STORAGE

WORK POINT ELEVATION

DETAIL NUMBER
SHEET NUMBER WHERE SHOWN

INTERIOR ELEVATION NUMBER
SHEET NUMBER WHERE SHOWN

EXTERIOR ELEVATION NUMBER
SHEET NUMBER WHERE SHOWN

SECTION NUMBER
SHEET NUMBER WHERE SHOWN

WINDOW TYPE

STOREFRONT OR CURTAINWALL TYPE

PARTITION TYPE

CONTROL JOINT

COLUMN CENTERLINE

KEYNOTE

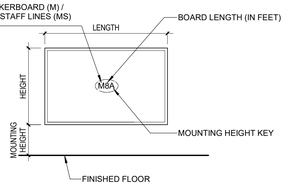
VISUAL DISPLAY BOARD

CMU
BRICK
CMU - SOLID
DRAINAGE FILL
CAST STONE
GROUT FILL
EARTH
GYPSUM BOARD
CONTINUOUS WOOD BLOCKING
RIGID INSULATION
BLANKET INSULATION
FINISH WOOD

BD	BOARD
BN	BULLNOSE
CL	CENTERLINE
CJ	CONTROL JOINT
CLG	CEILING
CFMF	COLD-FORMED METAL FRAMING
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
DIM	DIMENSION
DEFS	DIRECT-APPLIED EXTERIOR FINISH SYSTEM
DN	DOWN
DS	DOWNSPOUT
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EL	ELEVATION
EQ	EQUAL
EJ	EXPANSION JOINT
FE	FIRE EXTINGUISHER MOUNTED W/ WALL BRACKET
FEC	FIRE EXTINGUISHER IN CABINET
FT	FOOT OR FEET
GA	GAUGE
GYP BD	GYPSUM BOARD
HR	HOUR
HT	HEIGHT
LGMF	LIGHT GAUGE METAL FRAMING
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
MO	MASONRY OPENING
OC	ON CENTER
OPP	OPPOSITE HAND
R	RADIUS
RD	ROOF DRAIN
RO	ROUGH OPENING
SIM	SIMILAR
SRD	SECONDARY ROOF DRAIN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WD	WOOD

AS SYMBOLS & LEGENDS

TACKBOARD (T) / MARKERBOARD (M) / MARKERBOARD WITH STAFF LINES (MS) / TACK STRIPS (S)



NEW FRAMED MARKERBOARD ASSEMBLIES LEGEND

	KEY		LENGTH	HEIGHT	MOUNTING HEIGHT	QUANTITY
M	4	a	4'-0"	4'-0"	2'-0"	5
M	4	b	4'-0"	4'-0"	2'-4"	3
M	8	a	8'-0"	4'-0"	2'-0"	2
M	8	b	8'-0"	4'-0"	2'-4"	3
M	12	a	12'-0"	4'-0"	2'-0"	8
M	12	b	12'-0"	4'-0"	2'-4"	14
MS	8	b	8'-0"	4'-0"	2'-4"	1

CONTRACTOR RESPONSIBLE FOR CONFIRMING DISPLAY BOARD QUANTITIES BASED ON PLANS.

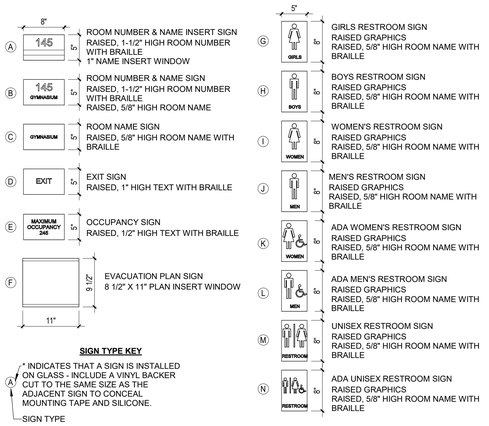
VISUAL DISPLAY BOARD LEGEND

EXISTING SHELVING UNIT SCHEDULE

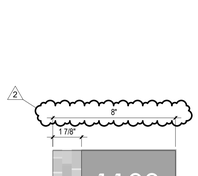
MARK	EXISTING ROOM NUMBER	NEW ROOM NUMBER
ES-1	102	101
ES-2A	103	111
ES-2B	103	108
ES-3	104	109
ES-4	106	103
ES-5A	107	112
ES-5B	107	112
ES-6A	108	139
ES-6B	108	142
ES-6C	108	110
ES-7	109	119
ES-8A	110	121
ES-8B	110	130
ES-9	111	123
ES-10	112	126
ES-11	113	137
ES-12A	115	135
ES-12B	115	136
ES-13A	121	143
ES-13B	121	102
ES-13C	121	134
ES-14	NOT USED	NOT USED
ES-15	162	182

EXISTING MARKERBOARD SCHEDULE

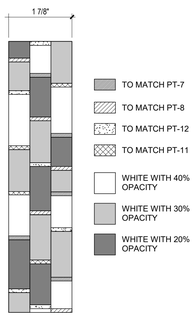
MARK	EXISTING ROOM NUMBER	NEW ROOM NUMBER
EM-1A	101	101
EM-1B	101	101
EM-2	104	169
EM-3A	105	110
EM-3B	105	110
EM-4	107	112
EM-5	108	112
EM-6	110	121
EM-7	111	123
EM-8	112	121
EM-9	116	131
EM-10	114	131
EM-11	114	108
EM-12	117	174
EM-13	NOT USED	NOT USED
EM-14A	120	138
EM-14B	120	138
EM-15A	119	139
EM-15B	119	139
EM-16	121	108
EM-17	102	176



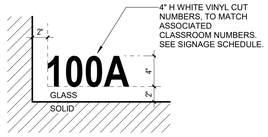
SIGN TYPE LEGEND



BAND DETAIL- NTS

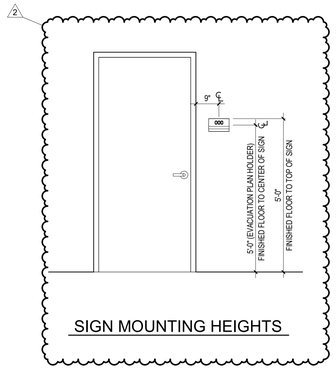


SIGNAGE DETAILS



NOTE: APPLY TO INSIDE FACE OF GLAZING AT EXTERIOR WINDOWS INDICATED ON FLOOR PLAN. INSTALL IN FRONT OF ANY WINDOW TREATMENTS OR BLINDS. NUMBERS TO BE READ FROM THE EXTERIOR. PLACE NUMBERS ON THE UPPER CORNER OF THE OPENING.

EXTERIOR OPENING VINYL NUMBERS



SIGN MOUNTING HEIGHTS

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WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

ISSUANCES

	04-28-23	BID / PERMIT
2	06-06-23	ADDENDUM 2

SIGNAGE SCHEDULE AND TYPICAL DETAILS

DATE 4/28/23

COMM NO. 2021091.02

A000

0'-1" REFERENCE LINE

6/1/2023 10:18:16 AM C:\Users\kkaufman\Documents_LFile23\2021091.02 Winton Woods Early Childhood Reno_kkaufmanPMGFZ.rvt

DOOR AND FRAME SCHEDULE

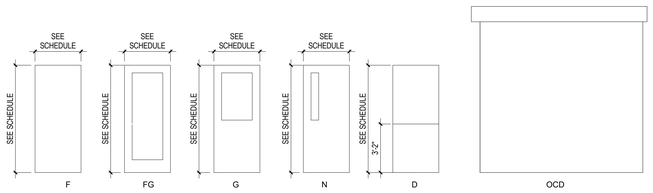
#	DOOR # OF LEAFS	DOOR WIDTH	DOOR HEIGHT	DOOR THK	DOOR TYPE	DOOR MATL	DOOR FINISH	DOOR GLASS	FRAME DEPTH	FRAME TYPE	FRAME E-FRAME	FRAME MATL	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME SILL	SIDELITE WIDTH	RATING (MINUTES)	ACCESS CONTROL	HDWR SET	NOTES	DOOR #
100A	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	MTL	IG-1	4 1/2"	S32	-	AL	MTL	H-4	J-5			-	●	AC-01		100A
100B	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	MTL	IG-1	4 1/2"	S31	-	AL	MTL	H-4	J-5			-	●	AC-01		100B
100C	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	MTL	IG-1	4 1/2"	S30	-	AL	MTL	H-4	J-5			-	●	AC-01		100C
101	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		5"	1	-	HM	PT-2	H-8	J-8			-	-	E-01A		101
102T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	E-02A		102T
102TA	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	E-02B		102TA
106	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	9"	1	-	HM	PT-2	H-6	J-8			20	-	01		106
107B	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 7/8"	4	-	HM	PT-2	H-7	J-7		2'-2"	45	-	01		107B
108	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 7/8"	4	-	HM	PT-2	H-7	J-7		2'-2"	45	-	02		108
108T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	E-02A		108T
108TA	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		7"	1	-	HM	PT-2	H-6	J-8			-	-	E-02B		108TA
109T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	E-02A		109T
109TA	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	E-02B		109TA
112T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	03		112T
117	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			45	-	01		117
118	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			45	-	01		118
119	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-6	J-8			45	-	01		119
119T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	03		119T
121T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	03		121T
123T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	03		123T
124	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	9"	1	-	HM	PT-2	H-6	J8			20	-	01		124
125	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	9"	1	-	HM	PT-2	H-6	J8			20	-	01		125
126	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		5"	1	-	HM	PT-2	H-8	J-8			-	-	E-01B		126
130	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 5/8"	5	-	HM	PT-2	H-1	J-1		2'-2"	20	-	04		130
131	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	7"	5	-	HM	PT-2	-	-		2'-2"	20	-	04	EXISTING FRAME TO REMAIN	131
132	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			45	-	01		132
133	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			45	-	01		133
134	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 5/8"	5	-	HM	PT-2	H-1	J-1		2'-2"	45	-	04		134
135	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	7"	5	-	HM	PT-2	-	-		2'-2"	20	-	04	EXISTING FRAME TO REMAIN	135
136	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	7"	5	-	HM	PT-2	-	-		2'-2"	20	-	04	EXISTING FRAME TO REMAIN	136
137	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	7"	5	-	HM	PT-2	-	-		2'-2"	20	-	04	EXISTING FRAME TO REMAIN	137
138	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 5/8"	5	-	HM	PT-2	H-1	J-1		2'-2"	20	-	04		138
138A	1	3'-0"	7'-0"	1 3/4"	N	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	05		138A
139	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	7"	5	-	HM	PT-2	-	-		2'-2"	20	-	04	EXISTING FRAME TO REMAIN	139
141	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	9"	1	EFR	HM	PT-2	H-6	J-8			20	●	AC-02		141
142	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	6 5/8"	5	-	HM	PT-2	H-1	J-1		2'-2"	45	-	01		142
143A	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	13		143A
143B	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	13		143B
152	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-6	J-8			20	-	06		152
160	1	3'-0"	6'-11 1/8"	1 3/4"					4 1/2"	-		ALUM	MTL	-	-			20	-	AC-03	EXISTING FRAME TO REMAIN	160
161	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	5"	2	-	HM	PT-2	-	-			20	-	04	EXISTING FRAME TO REMAIN	161
171T	0	3'-0"	7'-0"	0"	-	-	-	-	1'-0 7/8"	2	-	HM	PT-2	H-6	J-8			20	-	-		171T
172	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	1'-1"	2	-	HM	PT-2	H-6	J-8			20	-	01		172
172T	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	7"	2	-	HM	PT-2	H-6	J-8			-	-	03		172T
173	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	8 7/8"	2	-	HM	PT-2	H-7	J-7			-	-	07		173
174	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	8 7/8"	2	-	HM	PT-2	H-7	J-7			-	-	08		174
175T	0	3'-0"	7'-0"	0"	-	-	-	-	6 7/8"	2	-	HM	PT-2	H-6	J-8			20	-	-		175T
176	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	9"	2	-	HM	PT-2	H-6	J-8			20	-	01		176
177	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	7"	2	-	HM	PT-2	H-6	J-8			20	-	09		177
178	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	7"	2	-	HM	PT-2	H-6	J-8			20	-	09		178
180	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 7/8"	4	-	HM	PT-2	H-7	J-7		2'-2"	45	-	01		180
181	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 7/8"	4	-	HM	PT-2	H-7	J-7		2'-2"	45	-	01		181
182	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 7/8"	4	-	HM	PT-2	H-7	J-7		2'-2"	45	-	01		182
187	1	3'-0"	7'-0"	1 3/4"	F	HM	PT-2	-	8 1/4"	1	-	HM	PT-2	H-6	J-8			-	-	10		187
188A	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	1'-1"	3	-	HM	PT-2	H-8	J-8			-	-	11		188A
188B	1	10'-0"	9'-4"	2"	OCD	STL	MTL	-	2"	11	-	STL	MTL	H-14	J-14			-	-	RU		188B
188C	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	1'-1"	3	-	HM	PT-2	H-8	J-8			-	-	11		188C
191	1	3'-0"	7'-0"	1 3/4"	F	HM	PT-2	-	7"	1	-	HM	PT-2	H-6	J-8			-	-	12		191
200A	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	MTL	IG-1	4 1/2"	S28	-	AL	MTL	H-4	J-5			-	●	AC-01		200A
201C	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	MTL	IG-1	4 1/2"	S33	-	AL	MTL	H-4	J-5			-	●	AC-01		201C

OPERABLE PANEL PARTITION SCHEDULE

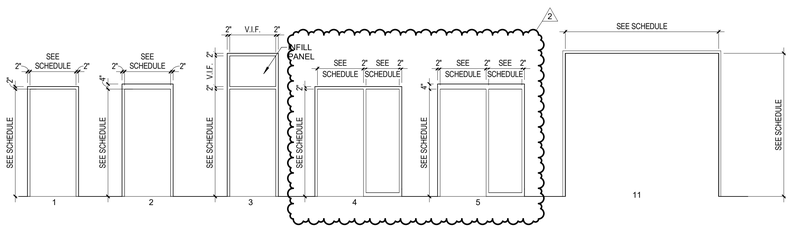
MARK	LENGTH	CEILING HEIGHT	TYPE	COMMENTS

OPENING SCHEDULE ABBREVIATIONS

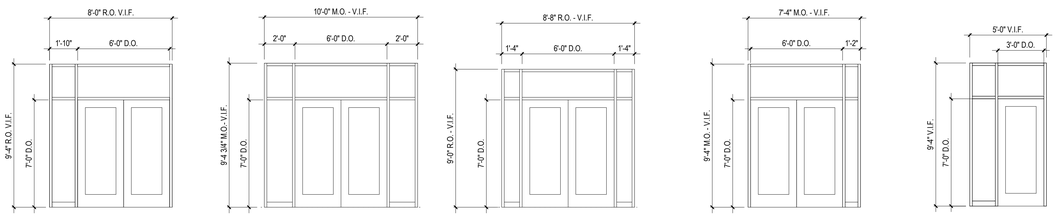
AL	ALUMINUM
HM	HOLLOW METAL
PF	PREFINISHED
PT	PAINT
SS	STAINLESS STEEL
STL	STEEL
WD	WOOD



DOOR TYPES



FRAME TYPES



STOREFRONT TYPES

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WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

ISSUANCES

	04-28-23	BID / PERMIT
1	05-25-23	ADDENDUM 1
2	06-06-23	ADDENDUM 2

OPENING SCHEDULE

DATE 4/28/23

COMM NO. 2021091.02

A010

"2-1" REFERENCE LINE"

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6/8/2023 3:24:23 PM

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PARTITION WALL LEGEND

PARTITION TAG. LOCATION OF TAG DELINEATES THE SIDE WITH MULTIPLE LAYERS OF GYP. (WHERE APPLICABLE) — S1

*PLEASE SEE SHEET A040 FOR STANDARD PARTITION TYPES

FLOOR PLAN LEGEND

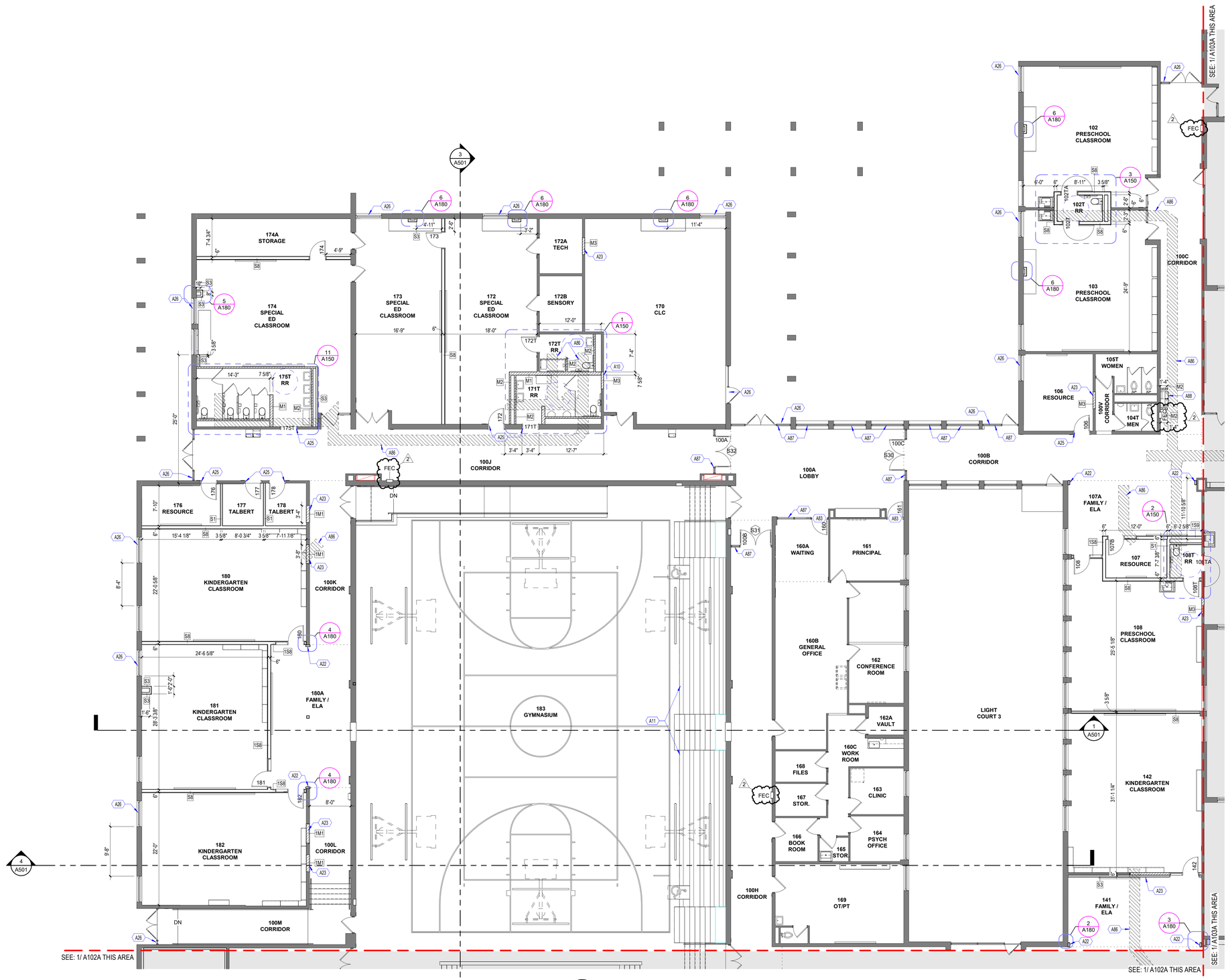
- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- NEW WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR

GENERAL NOTES - FLOOR PLAN

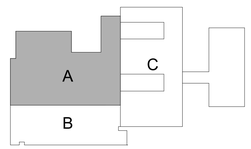
A. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.
B. FIRESTOP ALL PENETRATIONS THRU NEW AND EXISTING CORRIDOR WALLS
C. WHERE EXISTING WINDOWS ARE INDICATED TO BE REMOVED AND REPLACED, WIRE BRUSH LOOSE PAINT AND RUST FROM STEEL LINTELS, PRIME, AND PAINT
D. EVALUATE EXISTING ROOF DECK AND IN AREAS OF DISREPAIR, PATCH ROOF DECK AS PART OF ALLOWANCE #1
E. AT EXISTING SURFACES, REMOVE CAULK BETWEEN JOINTS OF SIMILAR AND DISSIMILAR MATERIALS AND RECAULK PROIR TO PAINTING

KEY NOTES - FLOOR PLANS

A10 INFILL OPENING WITH CMU EQUAL WIDTH OF WALL
A11 ALTERNATE #7. PROVIDE NEW BLEACHERS
A22 LOCATION OF SQUEEZE CHANNEL TOOTH IN MASONRY WITH SAME MATERIAL, COLOR, AND TEXTURE TO MATCH ADJACENT EXISTING CONDITION. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
A23 TOOTH IN MASONRY WITH SAME MATERIAL, COLOR, AND TEXTURE. ALIGN WITH EXISTING ADJACENT FINISHES.
A25 NEW OPENING AND LINTEL. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION
A26 OPENING TO RECEIVE VINYL CUT NUMBER. SEE DETAIL ON SHEET A000 FOR MORE INFORMATION
A83 ALTERNATE #1. REPLACE EXISTING DOOR AND HARDWARE. DOOR FRAME TO REMAIN
A86 TOOTH IN MASONRY WALLS AND PATCH FLOORS WHERE UNDERGROUND PLUMBING WORK HAS OCCURED, MATCH WITH SAME MATERIAL, COLOR, AND TEXTURE TO MATCH ADJACENT EXISTING CONDITION. SEE PLUMBING DRAWINGS FOR ALL LOCATIONS
A87 ALTERNATE #8. PROVIDE SAFETY AND SECURITY FILM ON ALL GLAZING THIS OPENING
A88 PROVIDE NEW WATER COOLER AND ALL ASSOCIATED PIPING AS REQUIRED FOR INSTALLATION OF NEW COOLER. MATCH TEXTURE, COLOR, AND TEXTURE.



1 A101A FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"



KEY PLAN
NTS

ISSUANCES

	04-28-23	BID / PERMIT
1	05-25-23	ADDENDUM 1
2	06-06-23	ADDENDUM 2

FIRST FLOOR PLAN - AREA A

DATE 4/28/23

COMM NO. 2021091.02

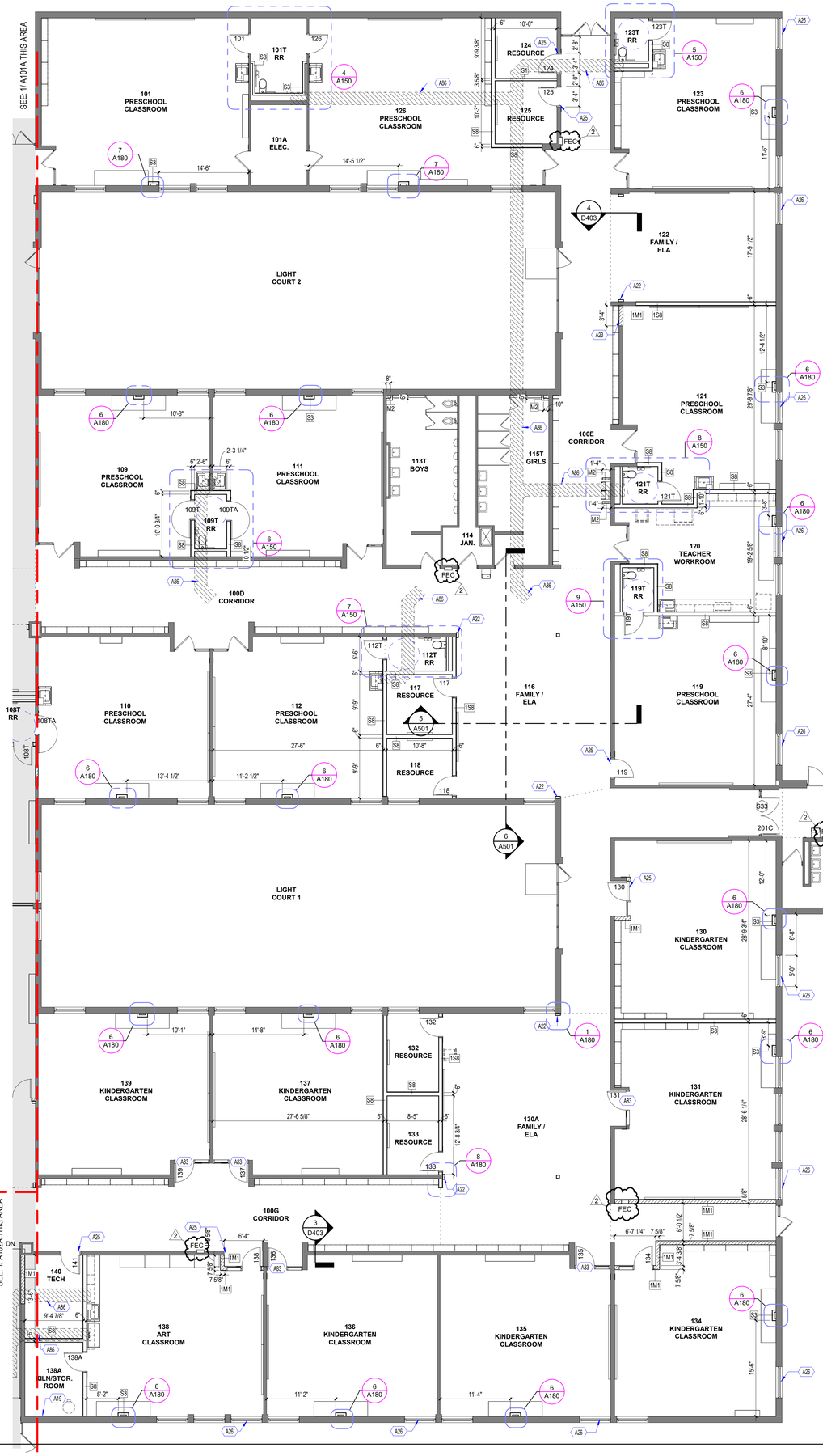
A101A

"0-1" REFERENCE LINE"

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SEE: 1/ A101A THIS AREA

SEE: 1/ A102A THIS AREA



PARTITION WALL LEGEND

PARTITION TAG. LOCATION OF TAG DELINEATES THE SIDE WITH MULTIPLE LAYERS OF GYP. (WHERE APPLICABLE) — S1

*PLEASE SEE SHEET A040 FOR STANDARD PARTITION TYPES

FLOOR PLAN LEGEND

- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- NEW WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR

GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.

B. FIRESTOP ALL PENETRATIONS THRU NEW AND EXISTING CORRIDOR WALLS

C. WHERE EXISTING WINDOWS ARE INDICATED TO BE REMOVED AND REPLACED, WIRE BRUSH LOOSE PAINT AND RUST FROM STEEL LINTELS, PRIME, AND PAINT

D. EVALUATE EXISTING ROOF DECK AND IN AREAS OF DISREPAIR, PATCH ROOF DECK AS PART OF ALLOWANCE #1

E. AT EXISTING SURFACES, REMOVE CAULK BETWEEN JOINTS OF SIMILAR AND DISSIMILAR MATERIALS AND RECAULK PROIR TO PAINTING

KEY NOTES - FLOOR PLANS

A19 LOCATE AND REINSTALL EXISTING KILN.

A22 LOCATION OF SQUEEZE CHANNEL. TOOTH IN MASONRY WITH SAME MATERIAL, COLOR, AND TEXTURE TO MATCH ADJACENT EXISTING CONDITION. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

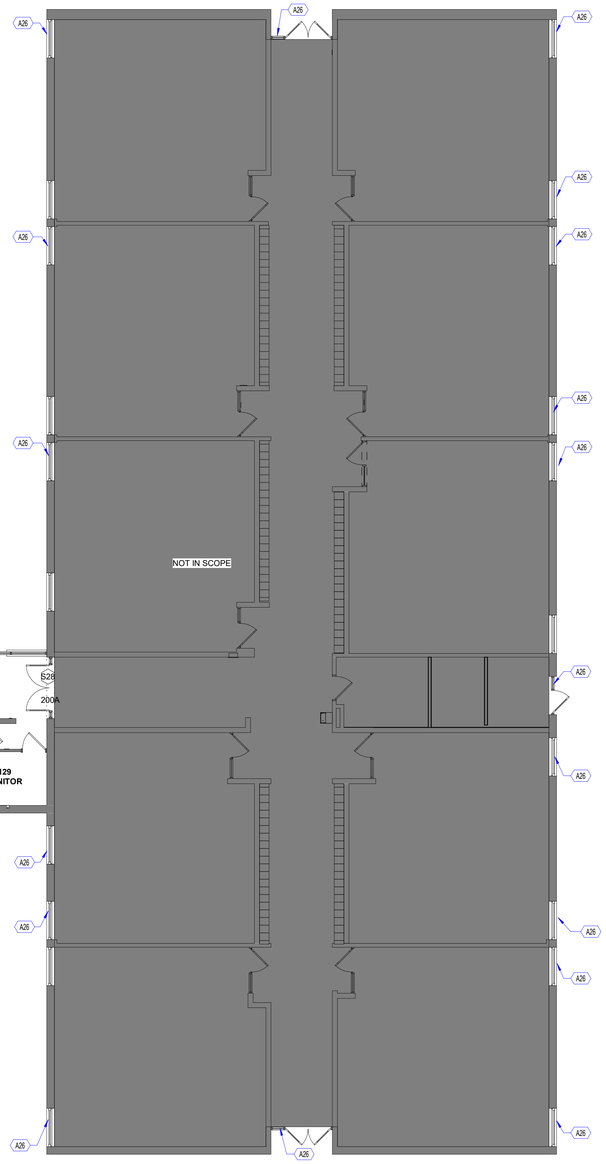
A23 TOOTH IN MASONRY WITH SAME MATERIAL, COLOR, AND TEXTURE. ALIGN WITH EXISTING ADJACENT FINISHES.

A25 NEW OPENING AND LINTEL. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION

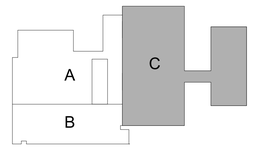
A26 OPENING TO RECEIVE VINYL CUT NUMBER. SEE DETAIL ON SHEET A000 FOR MORE INFORMATION

A83 ALTERNATE #1. REPLACE EXISTING DOOR AND HARDWARE. DOOR FRAME TO REMAIN

A86 TOOTH IN MASONRY WALLS AND PATCH FLOORS WHERE UNDERGROUND PLUMBING WORK HAS OCCURED, MATCH WITH SAME MATERIAL, COLOR, AND TEXTURE TO MATCH ADJACENT EXISTING CONDITION. SEE PLUMBING DRAWINGS FOR ALL LOCATIONS.



1 A103A FIRST FLOOR PLAN - AREA C
1/8" = 1'-0"



KEY PLAN
NTS

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ISSUANCES

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1	05-25-23	ADDENDUM 1
2	06-06-23	ADDENDUM 2

FIRST FLOOR PLAN - AREA C

DATE 4/28/23

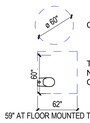
COMM NO. 2021091.02

A103A

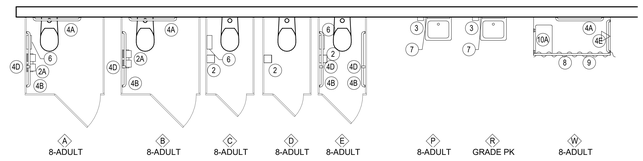
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TOILET CLEARANCE LEGEND



TOILET AND BATH ACCESSORY TYPES

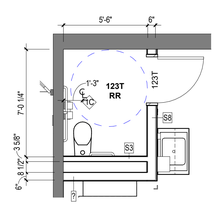
GENERAL NOTES - ENLARGED TOILET ROOM PLANS

A. ALL TOILET FIXTURES AND ACCESSORY DIMENSIONS ARE TO FINISHED FACE OF WALL UNLESS NOTED OTHERWISE.

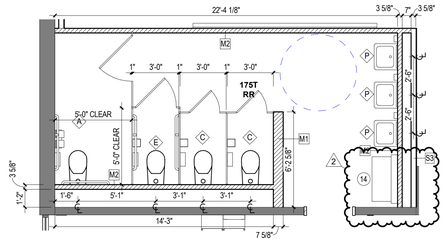
B. DIMENSIONS TO FIXTURES ARE TO THE CENTERLINE UNLESS NOTED OTHERWISE.

TOILET AND BATH ACCESSORY SCHEDULE

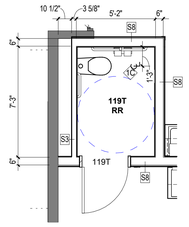
TBA	DESCRIPTION	SIZE/COMMENTS
	FOLDING UTILITY SHELF	
1	PAPER TOWEL DISPENSER	LARGE COUNT
2	TOILET TISSUE DISPENSER	
2A	TOILET TISSUE DISPENSER	ADA
3	SOAP DISPENSER	
4A	GRAB BAR	36in
4B	GRAB BAR	42in
4D	GRAB BAR	18in
4E	GRAB BAR	24in
6	SANITARY NAPKIN DISPOSAL	
7	MIRROR UNIT	18" x 36"
8	SHOWER ROD	
9	SHOWER CURTAIN	
10A	FOLDING SHOWER SEAT	ROLL-IN SHOWER
14	DIAPER-CHANGING STATION	



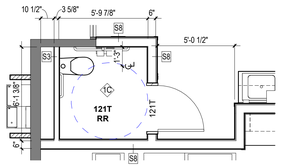
5 A150 ENLARGED TOILET ROOM 111R
1/4" = 1'-0"



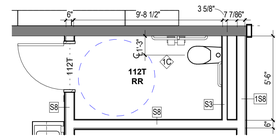
11 A150 ENLARGED TOILET ROOM 197D
1/4" = 1'-0"



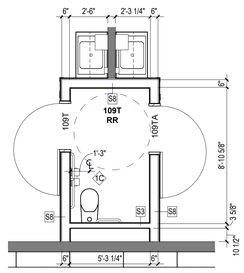
9 A150 ENLARGED TOILET ROOM 109R
1/4" = 1'-0"



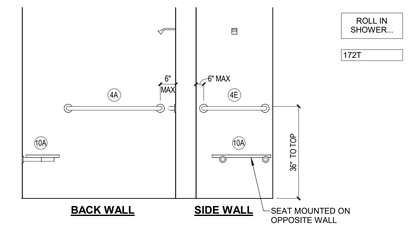
8 A150 ENLARGED TOILET ROOM 100BR
1/4" = 1'-0"



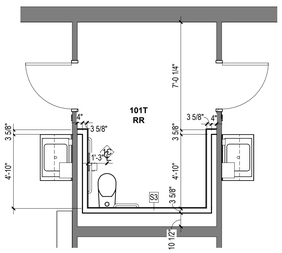
7 A150 ENLARGED TOILET ROOM 107R
1/4" = 1'-0"



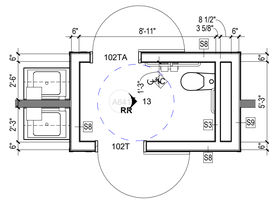
6 A150 ENLARGED TOILET ROOM 104R
1/4" = 1'-0"



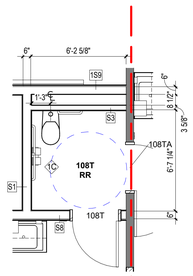
MOUNTING HEIGHTS 8-ADULT - ROLL-IN SHOWER
1/2" = 1'-0"



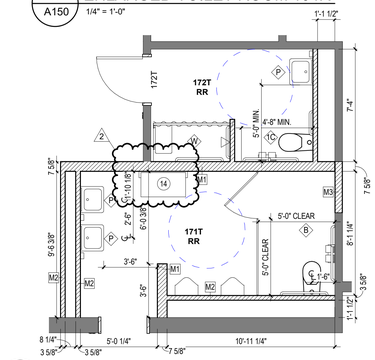
4 A150 ENLARGED TOILET ROOM 101R
1/4" = 1'-0"



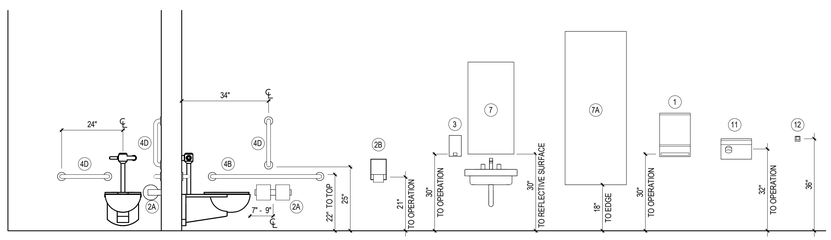
3 A150 ENLARGED TOILET ROOM 102R
1/4" = 1'-0"



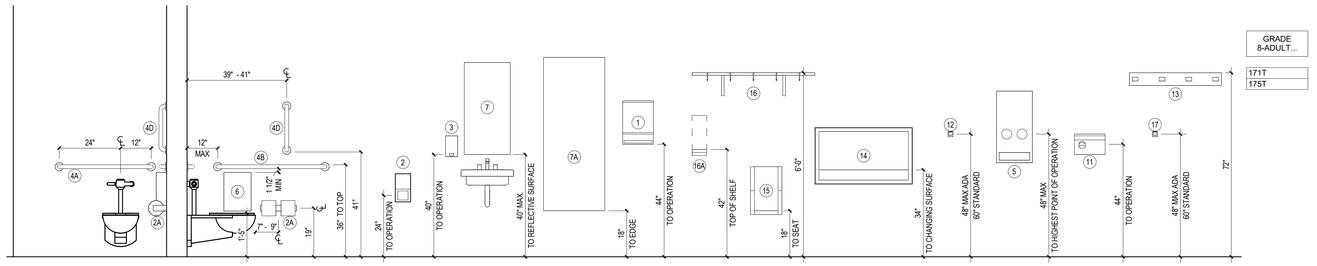
2 A150 ENLARGED TOILET ROOM 126R
1/4" = 1'-0"



1 A150 ENLARGED TOILET ROOM 160B & 160C
1/4" = 1'-0"



MOUNTING HEIGHTS - GRADE PRE-K



MOUNTING HEIGHTS - GRADE 8 THROUGH ADULT

"0-1" REFERENCE LINE"

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ISSUANCES

	04-28-23	BID / PERMIT
2	06-06-23	ADDENDUM 2

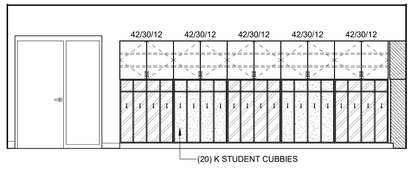
ENLARGED TOILET ROOM PLANS

DATE 4/28/23

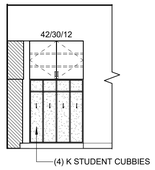
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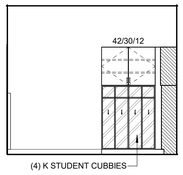
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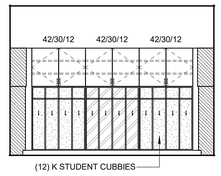
1 A641 KINDERGARTEN CLASSROOM 142
1/4" = 1'-0"



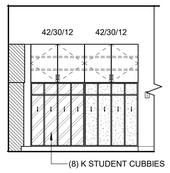
2 A641 KINDERGARTEN CLASSROOM 142
1/4" = 1'-0"



3 A641 KINDERGARTEN CLASSROOM 143
1/4" = 1'-0"



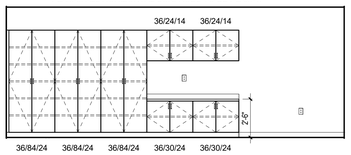
4 A641 KINDERGARTEN CLASSROOM 143
1/4" = 1'-0"



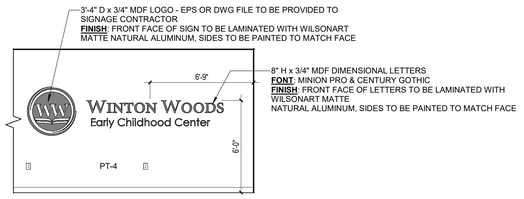
5 A641 KINDERGARTEN CLASSROOM 143
1/4" = 1'-0"

ALTERNATE #4B: ALL CASEWORK THIS VIEW.

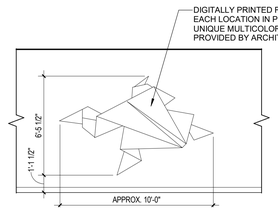
ALL VERTICAL CASEWORK SURFACES THIS VIEW TO BE PLAM-3. ALL HORIZONTAL SURFACES TO BE PLAM-1.



6 A641 MUSIC 152
1/4" = 1'-0"



7 A641 MAIN OFFICE 156
1/4" = 1'-0"



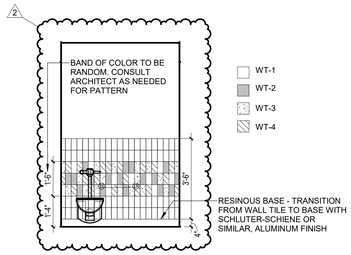
8 A641 GRAPHIC WALL 116
1/4" = 1'-0"

9 A641 ADA SINK DETAIL (ADULT HEIGHT)
1" = 1'-0"

10 A641 ADA SINK DETAIL (CHILD HEIGHT)
1" = 1'-0"

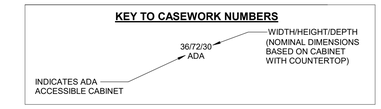
11 A641 TYPICAL PK CUBBIES
1/2" = 1'-0"

12 A641 TYPICAL K CUBBIES
1/2" = 1'-0"



13 A641 TYPICAL WALL TILE
3/8" = 1'-0"

KEY TO CASEWORK NUMBERS



GENERAL NOTES - CASEWORK

A. PROVIDE GROMMETS AS NOTED - COORDINATE IN FIELD WITH ARCHITECT.
B. COORDINATE ALL CASEWORK WITH PLUMBING AND ELECTRICAL DRAWINGS - DEVICES SHOWN FOR REFERENCE ONLY, ALL DEVICES MAY NOT BE SHOWN.
C. FOR ALL SINKS LABELED "ADA" REFER TO DETAILS ON SHEET A641.
D. ALL PLASTIC LAMINATE CASEWORK (VERTICAL SURFACES) TO BE PLAM-1 UNLESS NOTED OTHERWISE. ALL PLASTIC LAMINATE COUNTERTOPS (HORIZONTAL SURFACES) TO BE PLAM-2 WITH MATCHING EDGEBANDING UNLESS NOTED OTHERWISE.
E. PROVIDE HORIZONTAL FILLER PANELS AT TOP OF ALL CABINETS AT GAP BETWEEN CABINET AND WALL.
F. ALL SINKS TO RECEIVE PAPER TOWEL (TBA-1) AND SOAP (TBA-3) DISPENSERS. SEE SHEET A150 FOR ADDITIONAL INFORMATION.
G. ALL CASEWORK IN CORRIDORS AND CLASSROOMS NOTED AS "PK STUDENT CUBBIES" OR "K STUDENT CUBBIES" AND ANY ADJOINING WALL CABINETS ARE TO BE INCLUDED IN ALTERNATE #4A. SEE DETAILS 6/A641 AND 7/A641 FOR CUBBY INFORMATION.
H. UNLESS NOTED OTHERWISE, ALL SHELVES ARE TO BE ADJUSTABLE UNLESS A FIXED SHELF IS REQUIRED FOR CABINET STABILITY.
J. UNLESS NOTED OTHERWISE, PROVIDE A 4" BACKSPLASH ON ALL COUNTERTOPS AND AN ENDSPLASH WHERE TOPS MEET A WALL.
J. ALL STUDENT CUBBY BACK PANELS TO BE EITHER PLAM-4 OR PLAM-5. SEE LEGEND FOR FINISH INFORMATION.

FINISH LISTING - PAINT

PT-1	TO MATCH SHERWIN WILLIAMS SNOWBOUND (SW7004)
PT-2	TO MATCH SHERWIN WILLIAMS TIN LIZZIE (SW9163)
PT-3	TO MATCH SHERWIN WILLIAMS GRIZZLE GRAY (SW7068)
PT-4	TO MATCH PPG PAINTS LEAP FROG (PPG1225-7)
PT-5	TO MATCH PPG PAINTS SUDDENLY SAPPHIRE (PPG1242-7)
PT-6	TO MATCH PPG PAINTS BE SPONTANEOUS (PPG1221-6)
PT-7	TO MATCH PPG PAINTS KING TRITON (PPG1242-5)
PT-8	TO MATCH PPG PAINTS OVERCAST (PPG1242-4)
PT-9	TO MATCH SHERWIN WILLIAMS OVERJOY (SW6689)
PT-10	TO MATCH SHERWIN WILLIAMS QUITE CORAL (SW6614)
PT-11	TO MATCH PPG PAINTS CROWNING GLORY (PPG17-07)
PT-12	TO MATCH PPG PAINTS FALL LEAF (PPG1197-6)

FINISH LISTING - LAMINATES

PLAM-1	WILSONART, STEEL MESH (4879-38)
PLAM-2	WILSONART, WHITE TIGRIS (4783-60)
PLAM-3	WILSONART, RIVER CHERRY (7937-38)
PLAM-4	FORMICA, VIBRANT GREEN (6901-58)
PLAM-5	FORMICA, SPECTRUM BLUE (851-58)

CASEWORK FINISH LEGEND

PLAM-4
PLAM-5

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825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

ISSUANCES

	04-28-23	BID / PERMIT
2	06-06-23	ADDENDUM 2

INTERIOR ELEVATIONS & DETAILS

DATE 4/28/23
COMM NO. 2021091.02

A641

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0'-1" REFERENCE LINE

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LIGHTING FIXTURE LEGEND

LIGHTING FIXTURE TAGS

- CAPITAL LETTER WITH NUMBER DENOTES FIXTURE TYPE - REFER TO LIGHT FIXTURE SCHEDULE BELOW.
- SMALL LETTER DENOTES SWITCH LEG/RELAY NUMBER - REFER TO E100 SERIES DRAWINGS FOR TYPICAL ROOM LAYOUTS.

STANDARD LIGHTING FIXTURE SYMBOLS

- A10 r — 2'x4' RECESSED TROFFER
- A20 r — 2'x2' RECESSED TROFFER
- A30 r — 1'x4' RECESSED TROFFER
- C10 r — LINEAR PENDANT
- D10 r — RECESSED DOWNLIGHT
- G10 r — CYLINDRICAL PENDANT

EMERGENCY LIGHTING FIXTURES

- GRAY FILLED IN AREA DENOTES EMERGENCY FIXTURE.
- CONNECT TO EMERGENCY POWER CIRCUIT AHEAD OF SWITCHING.
- NL DENOTES NIGHT LIGHT.

- E10 — DUAL HEAD EMERGENCY FIXTURE
- X10 — EXIT SIGN
  - SHADED AREA DENOTES FACE
  - ARROW DENOTES ARROW DIRECTION
- A10 NL — 2'x4' RECESSED TROFFER - NIGHT LIGHT

GENERAL NOTES - LIGHTING FIXTURES

A. ALL FIXTURES MARKED 'ED' ARE EXISTING TO BE DEMOLISHED. VERIFY SERVING PANEL AND CIRCUIT NUMBER PRIOR TO DISCONNECTION. REMOVE LIGHTING BRANCH CIRCUITING ABOVE FINISHED CEILING. MAINTAIN HOME RUN CONDUIT FOR CONNECTION TO NEW FIXTURES.

B. REFER TO LIGHTING CONTROL SCHEMATICS AND LIGHTING CIRCUIT SCHEDULES ON E500 SERIES DRAWINGS.

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	FIXTURE BASIS OF DESIGN	ALTERNATE MANUFACTURERS	FIXTURE DESCRIPTION	LAMP	LIGHT DISTRIBUTION	MINIMUM LUMEN OUTPUT	COLOR TEMPERATURE	DRIVER	VOLTAGE	MAXIMUM WATTAGE	MOUNTING METHOD	TYPE COMMENTS
A30	LITHONIA EPANL	COLUMBIA CFP, LSI SFP, PHILIPS FXP, RAB EZPAN	RECESSED TROFFER, FLAT PANEL, EDGE-LIT, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4"	LED	STANDARD	3000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	26 VA	CEILING GRID	
A31	LITHONIA EPANL	COLUMBIA CFP, LSI SFP, PHILIPS FXP, RAB EZPAN	RECESSED TROFFER, FLAT PANEL, EDGE-LIT, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4"	LED	STANDARD	4000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	38 VA	CEILING GRID	
A32	LITHONIA EPANL	COLUMBIA CFP, LSI SFP, PHILIPS FXP, RAB EZPAN	RECESSED TROFFER, FLAT PANEL, EDGE-LIT, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4"	LED	STANDARD	4800 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	46 VA	CEILING GRID	
A33	LITHONIA EPANL	COLUMBIA CFP, LSI SFP, PHILIPS FXP, RAB EZPAN	RECESSED TROFFER, FLAT PANEL, EDGE-LIT, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4"	LED	STANDARD	6000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	50 VA	CEILING GRID	
C12	LITECONTROL 4L-P-ID	HE WILLIAMS MX4, LUMENWERX VIA4, LUX ILLUMINAIRE EOS 4.0, MARK ARCHITECTURAL LIGHTING SL4L	LINEAR PENDANT, INDIRECT/DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, COLOR TO BE SELECTED BY ARCHITECT, 4" WIDE x 8' LONGLINEAR PENDANT, INDIRECT/DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, COLOR TO BE SELECTED BY ARCHITECT, 4" WIDE x 8' LONG	LED	300 LPF UP, 1000 LPF DOWN	10400 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	80 VA	CABLE MOUNTED	MOUNT AT 12'-0" AFF
C32	LITECONTROL 4L-P-D	HE WILLIAMS MX4, LUMENWERX VIA4, LUX ILLUMINAIRE EOS 4.0, MARK ARCHITECTURAL LIGHTING SL4L	LINEAR PENDANT, DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, COLOR TO BE SELECTED BY ARCHITECT, 4" WIDE x 8' LONG	LED	1000 LPF DOWN	8000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	72 VA	CABLE MOUNTED	MOUNT AT 15'-0" AFF
D20	PRESCOLITE LF6SL /02	LITHONIA LBR6, LSI LAD6, PHILIPS LIGHTOLIER OM6LED, PORTFOLIO LD6A	RECESSED DOWN LIGHT, ROUND, PAINTED WHITE TRIM, SEMI-SPECULAR ALZAK REFLECTOR, 6" DIAMETER	LED	STANDARD	1100 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	11 VA	CEILING RECESSED	
D21	PRESCOLITE LF6SL /02	LITHONIA LBR6, LSI LAD6, PHILIPS LIGHTOLIER OM6LED, PORTFOLIO LD6A	RECESSED DOWN LIGHT, ROUND, PAINTED WHITE TRIM, SEMI-SPECULAR ALZAK REFLECTOR, 6" DIAMETER, WET LOCATION RATED	LED	STANDARD	1500 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	17 VA	CEILING RECESSED	
D30	LITHONIA WF4	LITELINE SLMPRO4, PHILIPS FD, WAC LIGHTING FM-07RN	RECESSED WAFER MODULE DOWN LIGHT, ROUND, PAINTED WHITE TRIM, 4" DIAMETER	LED	STANDARD	750 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	10 VA	CEILING RECESSED	
E10	DUAL-LITE LZ2 /02	BARRON LED-60, LSI EAS, LITHONIA ELM2, SURE-LITES SEL25	EMERGENCY LIGHT, DUAL HEAD, THERMOPLASTIC, WHITE FINISH, INTEGRAL BATTERY PACK	LED	N/A			N/A	120 V	6 VA	CEILING / WALL MOUNTED	
F10	LITHONIA CSS	COLUMBIA MPS4, LSI SDL, METALUX 4SNLED, PHILIPS FSSEZ	INDUSTRIAL LINEAR STRIP, STEEL HOUSING, 4' LONG	LED	STANDARD	4000 lm	4000 K	LED DRIVER	120 V	40 VA	CHAIN MOUNTED	MOUNT AT 7'-6" AFF
F11	LITHONIA CSS	COLUMBIA MPS4, LSI SDL, METALUX 4SNLED, PHILIPS FSSEZ	INDUSTRIAL LINEAR STRIP, STEEL HOUSING, WIRE GUARD, 4' LONG	LED	STANDARD	4000 lm	4000 K	LED DRIVER	120 V	40 VA	CHAIN MOUNTED	MOUNT AT X'-X" AFF
H11	LITHONIA CPHB	METALUX HBLED, GE ALBEO ABV1, APPROVED EQUALS	HIGH BAY FIXTURE, RECTANGULAR, WIRE GUARD, 46" x 16" x 3" DEEP	LED	WIDE	24000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	200 VA	CHAIN MOUNTED	REFER TO MOUNTING DETAIL 3/E501
W10	LITHONIA WPX0	GARDCO GEOFORM, APPROVED EQUALS	EXTERIOR WALL PACK, SINGLE PIECE ALUMINUM HOUSING, WEATHERPROOF, INTEGRAL PHOTOCELL, FINISH SELECTED BY ARCHITECT	LED	MEDIUM	1500 lm	4000 K	LED DRIVER	120 V	12 VA	WALL MOUNTED	MOUNT AT 8'-0" AFF
X10	DUAL-LITE SE	SURE-LITES CX, LITHONIA LQ, ISOLITE EDC, BARRON 400U, LSI EXC	EXIT SIGN, SINGLE FACE, RED LETTERS, CAST ALUMINUM, DIRECTIONAL ARROWS AS SHOWN ON PLANS, WHITE HOUSING	LED	N/A	0 lm	0 K	N/A	120 V	2 VA	CEILING/WALL MOUNTED	WIRED TO UNSWITCHED CIRCUIT
X12	DUAL-LITE SE /02	SURE-LITES CX, LITHONIA LQ, ISOLITE EDC, BARRON 400U, LSI EXC /02	EXIT SIGN, DOUBLE FACE, RED LETTERS, CAST ALUMINUM, DIRECTIONAL ARROWS AS SHOWN ON PLANS, WHITE HOUSING	LED	N/A	0 lm	0 K	N/A	120 V	4 VA	CEILING/WALL MOUNTED	WIRED TO UNSWITCHED CIRCUIT
X30	DUAL-LITE CEW	BARRON VEX-WH, ISOLITE MAX2.0 /02 APPROVED EQUALS	EXIT SIGN, SINGLE FACE, RED LETTERS, POLYCARBONATE, EXTERIOR RATED, DIRECTIONAL ARROWS AS SHOWN ON PLANS, WHITE HOUSING	LED	N/A	0 lm	0 K	N/A	120 V	5 VA	CEILING/WALL MOUNTED	WIRED TO UNSWITCHED CIRCUIT

DRAFTING SYMBOL LEGEND

SYMBOL	DESCRIPTION
X	DRAWING KEY NOTE ONLY NOTES THAT APPLY APPEAR ON EACH SHEET. KEY NOTE NUMBERS ARE CONSISTENT FROM SHEET TO SHEET, AND THEREFORE MAY NOT APPEAR IN NUMERICAL ORDER.
2 E501	DETAIL CALLOUT REFER TO DETAIL 2 ON SHEET E501

26-ELECTRICAL SHEET LIST - RENO

SHEET NUMBER	SHEET NAME
E000	ELECTRICAL LEGENDS
E010	FIRST FLOOR DEMO PLAN AREA A
E011	FIRST FLOOR DEMO PLAN AREA B
E012	FIRST FLOOR DEMO PLAN AREA C
E100	FIRST FLOOR LIGHTING PLAN AREA A
E101	FIRST FLOOR LIGHTING PLAN AREA B
E102	FIRST FLOOR LIGHTING PLAN AREA C
E200	FIRST FLOOR POWER PLAN AREA A
E201	FIRST FLOOR POWER PLAN AREA B
E202	FIRST FLOOR POWER PLAN AREA C
E203	ROOF POWER PLAN
E300	FIRE ALARM PLAN AREA A
E301	FIRE ALARM PLAN AREA B
E302	FIRE ALARM PLAN AREA C
E303	FIRE ALARM PLAN AREA C Copy 1
E400	PANEL SCHEDULES
E401	PANEL SCHEDULES
E402	PANEL SCHEDULES
E403	PANEL SCHEDULES
E500	ELECTRICAL DETAILS
E501	LIGHTING CONTROL DETAILS
E502	LIGHTING CONTROL DETAILS
E520	ENLARGED KITCHEN PLAN
E600	ELECTRICAL SINGLE LINE DIAGRAM

GENERAL NOTES: - APPLIES TO ALL ELECTRICAL DRAWINGS

A. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. REFER TO THE MECHANICAL DRAWINGS FOR LOCATIONS OF THESE DEVICES.

B. EC MAY COMBINE MULTIPLE CIRCUITS INTO HOME RUNS. NO MORE THAN 3 CIRCUITS SHALL BE IN EACH HOME RUN CONDUIT, AND THE WIRE MUST BE DERATED IN ACCORDANCE WITH NEC. THESE CIRCUITS SHALL BE REQUIRED TO BE ON SEPARATE PHASES (A,B,C).

C. EC SHALL DERATE WIRE IN LONG RUNS ACCORDING TO THE WIRE SIZING TABLE SHOWN BELOW:

WIRE SIZING CHART

RUN LENGTH		CIRCUIT BREAKER		
120V	277V	20A	30A	40A
000-100'	000-200'	12	10	8
101-150'	201-300'	10	8	6
151-200'	301-450'	8	6	4

D. WHERE ELECTRICAL LOAD ON A CIRCUIT IS OVER 20 AMPERES, EACH CIRCUIT SHALL BE RUN IN A SEPARATE CONDUIT TO THE PANELBOARD.

E. ALL VAV BOXES, EXHAUST FANS, MOTORS, MISC. HVAC EQUIPMENT, APPLIANCES, ETC. INDICATED ON THESE DRAWINGS SHALL HAVE A MOTOR RATED SWITCH LOCATED NEAR THE MOTOR FOR SERVICING. PROVIDE DISCONNECTING MEANS AS REQUIRED BY THE NEC.

F. ALL PANELBOARDS SHALL BE INSTALLED 72" AFF TO THE TOP OF THE PANEL. PROVIDE 10% SPARE CONDUITS (MINIMUM OF 4) TO ABOVE THE CEILING FOR FUTURE.

G. HEIGHT DIMENSIONS SHOWN ON THIS PLAN ARE MEASURED FROM THE BOTTOM OF THE DEVICE. HORIZONTAL DIMENSIONS ARE MEASURED TO THE CENTER OF THE DEVICE OR GROUP OF DEVICES WHICH THE DIMENSION PERTAINS TO.

H. FOR LIGHT FIXTURE MOUNTING DETAILS, SEE LUMINAIRE SCHEDULE, ON SHEET E000.

FIRE ALARM LEGEND

FIRE ALARM DRAWINGS INDICATE A BASIS OF DESIGN FOR LOCATIONS AND QUANTITIES OF DEVICES, APPLIANCES, CONTROL PANELS, ETC. FIRE ALARM SYSTEM DESIGNER SHALL REVISE THE PLANS AS REQUIRED TO MEET ALL CODE AND PROJECT REQUIREMENTS. FIRE ALARM SYSTEM SHALL BE DESIGNED BY A LICENSED FIRE ALARM SYSTEM DESIGNER. REFER TO SPECIFICATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

NOTIFICATION APPLIANCES

WALL MOUNTED: 75cd F XX
CEILING MOUNTED: 75cd F XX
CANDELA RATING (75 IF NOT NOTED)

F INDICATES DEVICE DESIGNATION

EG	ELECTRIC GONG
H	HORN ONLY (▶)
S	STROBE ONLY (▶)
SP	SPEAKER ONLY (▶)
SS	SPEAKER/STROBE COMBO
HS	HORN/STROBE COMBO

XX INDICATES SPECIAL FEATURES

WG	WIRE GUARD
WP	WEATHERPROOF

INITIATING DEVICES

XX

XX INDICATES DEVICE TYPE

F	MANUAL PULL STATION
RTS	REMOTE TEST SWITCH
PS	PRESSURE SWITCH
IAM	INPUT ADDRESSABLE MODULE
K	KEY BOX

DETECTOR: X D

X INDICATES DETECTOR TYPE

CO	CARBON MONOXIDE DETECTOR
H	HEAT DETECTOR
S	SMOKE TETECTOR

DUCT SMOKE DETECTOR(S) SHALL BE INSTALLED IN EACH RETURN AIR DUCT(S) PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE RELAY TO SHUTDOWN HVAC EQUIPMENT.

DAMPER: D Y

Y INDICATES DAMPER TYPE

F	FIRE DAMPER
FS	FIRE AND SMOKE DAMPER
S	SMOKE DAMPER

PANELS

XXXX

XXXX INDICATES PANEL TYPE

FACP	FIRE ALARM CONTROL PANEL
FAP	POWER EXTENDER PANEL
FAA	REMOTE ANNUNCIATOR PANEL

ACCESSORY DEVICES

XX

XX INDICATES DEVICE TYPE

FHO	FIRE DOOR HOLD OPEN
R	RELAY

WIRING DEVICE LEGEND

MOUNTING HEIGHT OF BACKBOX, RELATIVE TO BOTTOM OF BOX. IF OMITTED, DEFAULT MOUNTING HEIGHT IS 16"

XX INDICATES SPECIAL NOTE (IF USED)

AV	AUDIO/VISUAL OUTLET
CO	COPIER
D	DRYER
EWC	ELECTRIC WATER COOLER
M	MICROWAVE @ 60"AFF
P	PROJECTOR @ 100" AFF
PR	PRINTER
REF	REFRIGERATOR @ 60"AFF
TR	TECH RACK
TU	TECH ROOM UTILITY RECEPTACLE
V	VENDING MACHINE @ 60"AFF
WP	WEATHER PROOF

XX/44" — DUPLEX
DOUBLE-DUPLEX

J INDICATES DEVICE DESIGNATION (IF USED)

VCP	VRF CONTROL PANEL

JUNCTION BOX

GFI — GROUND FAULT PROTECTED
GFI — GROUND FAULT PROTECTED, ABOVE COUNTER

TECHNOLOGY SYMBOL LEGEND

MOUNTING HEIGHT OF BACKBOX, RELATIVE TO BOTTOM OF BOX. IF OMITTED, DEFAULT MOUNTING HEIGHT IS 16"

XX INDICATES TYPE OF TECHNOLOGY OUTLET [REFER TO LEGEND ON SHEET T001]

XX/44" — TECHNOLOGY OUTLET

TECHNOLOGY OUTLET TYPES

2D	(2) DATA OUTLETS
AV	AUDIO/VISUAL OUTLET
P	PROJECTOR @ 100" AFF
TC	TEACHER COMPUTER STATION
TR	TECHNOLOGY RACK
TV	TELEVISION
WAP	WIRELESS ACCESS POINT

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	SHORT THROW PROJECTOR	WALL MOUNTED REFER TO DETAIL 1/E500
	PROJECTOR	CEILING MOUNTED
	PAN / TILT / ZOOM SECURITY CAMERA WALL MOUNT	*MOUNT AS SHOWN BELOW UNLESS OTHERWISE NOTED* INTERIOR - CEILING OR 9'-0" AFF EXTERIOR - 11'-6" AFF
TV-XX	TELEVISION XX INDICATES SCREEN SIZE	REFER TO ARCHITECTURAL ELEVATIONS
TV-XX	MOBILE TV CART XX INDICATES SCREEN SIZE	FLOOR
	CABLE TRAY SEE PLANS FOR SIZE	CEILING SUSPENDED
	CONDUIT SLEEVE	9'-6" AFF

LIGHTING CONTROL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	XX INDICATES SWITCH TYPE. IF OMITTED, SWITCH IS SINGLE POLE. SWITCH TYPES 3 — 3 WAY 4 — 4 WAY CS1 — CLASSROOM SWITCH GS1 — GYM LIGHTING CONTROLS, PROVIDE CLEAR, HINGED, POLYCARBONATE COVER FOR PROTECTION KS1 — KITCHEN SWITCH OS1 — OCCUPANCY SENSOR OSD — OCCUPANCY SENSOR WITH DIMMING T — TIMER SWITCH D — DIMMING SWITCH	

XX LIGHTING SWITCH — # OF "X" INDICATES NUMBER OF SWITCHES

ACCESS CONTROL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
CR	CREDENTIAL READER	WALL MOUNTED REFER TO DETAIL 2/E500
DHO	MAGNETIC DOOR HOLD OPEN	WALL MOUNTED REFER TO DETAIL 2/E500
DPS	DOOR POSITION SWITCH	DOOR FRAME
DR	DOOR RELEASE BUTTON	CASEWORK MOUNTED REFER TO F-SERIES SHEETS
EL	ELECTRONIC LATCH	DOOR FRAME
FHO	FIRE ALARM SYSTEM MAGNETIC DOOR HOLD OPEN	WALL MOUNTED REFER TO DETAIL 2/E500
HA	HANDICAP ACTUATOR	DOOR FRAME
HC	HANDICAP OPERATOR	WALL MOUNTED REFER TO DETAIL 2/E500
VI	VIDEO INTERCOM STATION	WALL MOUNTED REFER TO DETAIL 2/E500
VIM	VIDEO INTERCOM MASTER STATION	CASEWORK MOUNTED REFER TO F-SERIES SHEETS

COMMUNICATION SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
PA	PUBLIC ADDRESS SPEAKER	CEILING MOUNTED
PA	PUBLIC ADDRESS SPEAKER	WALL MOUNTED AT 88" AFF UNLESS NOTED OTHERWISE

CONDUCTOR AND CONDUIT COLOR CODING

APPLICATION	COLOR
PHASE A CONDUCTOR	BROWN (480V), BLACK (208V)
PHASE B CONDUCTOR	ORANGE (480V), RED (208V)
PHASE C CONDUCTOR	YELLOW (480V), BLUE (208V)
NEUTRAL CONDUCTOR	GREY (480V), WHITE (208V)
GROUND CONDUCTOR	GREEN
CONTROL CONDUCTOR, 120V	RED
CONTROL CONDUCTOR, NEU	WHITE
CONTROL CONDUCTOR, 24V	BLUE
CONTROL CONDUCTOR, EXTERNAL SOURCE	YELLOW

ABBREVIATIONS:

EMT	ELECTRICAL METALLIC TUBING
IMC	INTERMEDIATE METAL CONDUIT
FMC	FLEXIBLE METALLIC CONDUIT
LFMC	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
MC	METAL CLAD CABLE
RNC	RIGID NONMETALLIC CONDUIT
RSC	RIGID STEEL CONDUIT

WIRING METHODS SCHEDULE

APPLICATION		LOCATION	ALLOWABLE CONDUIT AND RACEWAY TYPE	OUTLET BOXES	CONDUIT BODIES	ENCLOSURE TYPE	FASTENERS/ SUPPORTS	CONDUIT AND RACEWAY NOTES:
INTERIOR APPLICATIONS	CONCEALED	CMU WALLS	EMT	STEEL METAL	CAST ALUMINIUM	NEMA 1	ZINC PLATED	-MINIMUM CONDUIT SIZE 3/4"C
		METAL STUD PARTITIONS	EMT AND MC					
		ABOVE ACCESSIBLE CEILINGS	EMT AND MC					
	EXPOSED	FINISHED SPACES *(SEE NOTE A)*	SURFACE RACEWAY	STEEL METAL	CAST ALUMINIUM	NEMA 1	ZINC PLATED	-MINIMUM SIZE 3/4"C
		UNFINISHED SPACES *(SEE NOTE A)*	EMT					
		FINAL CONNECTION TO MOTORIZED EQUIPMENT	FMC (PLENUMS) LFMC (NON-PLENUMS)					
EXTERIOR APPLICATIONS	BELOW GRADE	FEEDERS	RNC					-MINIMUM SIZE 1"C -DO NOT ROUTE BRANCH CIRCUITS UNDER SLAB UNLESS OTHERWISE NOTED ON THE PLANS.
		BRANCH CIRCUITS	RNC					
	ABOVE GRADE	FINAL CONNECTION TO MOTORIZED EQUIPMENT	LFMC	GALVANIZED MALLEABLE IRON	GALVANIZED MALLEABLE IRON	NEMA 3R	GALVANIZED	-CONDUIT SHALL ENTER FROM SIDE OR BOTTOM WHERE PRACTICAL -PROVIDE WATERTIGHT HUBS FOR CONDUIT CONNECTION.
		ALL OTHER LOCATIONS	IMC AND RSC					

NOTES:
A) UNFINISHED SPACES INCLUDE DEDICATED MECHANICAL, ELECTRICAL, AND TECHNOLOGY ROOMS ONLY. UNLESS OTHERWISE INDICATED ON DRAWINGS, TREAT ALL OTHER SPACES AS FINISHED SPACES.

"0'-1" REFERENCE LINE"

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ISSUANCES

	04-28-23	BID/PERMIT
01	05-25-23	Addendum 1
02	06-06-23	Addendum 2

ELECTRICAL LEGENDS

DATE 04-28-23

COMM NO. 2021091.02

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