QUATTROCCHI KWOK
ARCHITECTS

FREEDOM HIGH SCHOOL
AUXILIARY GYM

Addendum 02

5/20/2021

Date: 05/20/2021

DSA File Number: 7-H4
DSA Application Number: 01-119278
PTN: 61721-78

Owner:
Liberty Union High School District
20 Oak Street
Brentwood, CA 94513

Architect:
Quattrocchi Kwok Architects
636 Fifth Street
Santa Rosa, California 95404
P:707.576.0829
F: 707.576.0295

Architect's Project No.: 1869.00

To: Prospective Bidders

The following changes, modifications and additions to Project Manual and Drawings described below are made a part thereof and are subject to all of the requirements thereof as if originally specified. The Bidder must acknowledge receipt of the Addendum in the space provided on the Bid Form; failure to do so may subject the Bidder to disqualification.

Table of Contents - Addendum 02

This Addendum consists of 6 pages and the attachments as listed below dated May 20th, 2021.

Deleted Text is shown in ~~strikeout type.~~

Added Text is shown ***bold italicized type.***

ATTACHMENTS:

Project Manual
11 6623 – GYMNASIUM EQUIPMENT

ADD Drawings (8.5 inch by 11 inch & 11 inch by 17 inch)**:**

ADD 02.01 - Basketball Hoop Foundation

Drawings: (24 inch by 36 inch)

ADD02 – C-1.0	EXISTING CONDITIONS/DEMOLITION
ADD02 – C-2.0	HORIZONTAL CONTROL PLAN
ADD02 – C-4.0	GRADING AND DRAINGE PLAN
ADD02 – E-1.1	SITE PLAN – ELECTRICAL
ADD02 – E-M3.1	FLOOR PLAN – POWER & SIGNAL
ADD02 – E-6.1	PANEL; SCHEDULE
ADD02 - AV0	AUDIO-VISUAL COVER PAGE
ADD02 - AV2.1	AUDIO-VISUAL CONDUIT RISER
ADD02 - AV3.1	AUDIO-VISUAL FLOOR PLAN
ADD02 - AV3.2	AUDIO-VISUAL RCP

Project Record

None

End of Table of Contents

A. CHANGES TO PREVIOUS ADDENDA

Item No. 2. 01

The following document denoted Addendum 01 supersedes and replaces previously published document.
Section - 11 6623 – GYMNASIUM EQUIPMENT

B. CHANGES TO THE BIDDING AND CONTRACT REQUIREMENTS

None

C. CHANGES/ ADDITIONS TO THE SPECIFICATIONS

Item No. 2. 02

Section 27 4116 - AV SYSTEMS
Revise Article 2.01.A PRE_APPROVED SPECIALTY SUBCONTRACTORS as follows:

Avidex
Felicia McGinn
20382 Hermana Cir.
Lake Forest, CA 92630
949-428-6375

D. CHANGES/ ADDITIONS TO THE DRAWINGS

Item No. 2. 03

The following drawings dated May 20, 2021 denoted **Addendum 02** supersede and replace previous drawings with the same titles:

ADD02 – C-1.0	EXISTING CONDITIONS/DEMOLITION
ADD02 – C-2.0	HORIZONTAL CONTROL PLAN
ADD02 – C-4.0	GRADING AND DRAINGE PLAN
ADD02 – E-1.1	SITE PLAN – ELECTRICAL
ADD02 – E-M3.1	FLOOR PLAN – POWER & SIGNAL
ADD02 – E-6.1	PANEL; SCHEDULE

Item No. 2. 04

Sheet S-M4.1 Foundation Details
Add detail 10 Basketball Hoop Foundation with the attached drawing ADD 02.01.

Item No. 2. 05

The following AV drawings are removed from the construction documents.

AV-M0.1	AV PANEL SCHEDULE & ALS INFORMATION
AV-M0.2	AV WIRETYPE SCHEDULE
AV-M0.3	AV STANDARD DETAILS
AV-M0.4	AV STANDARD DETAILS
AV-M1.1	AV DEVICE PLAN AT LEVEL 1
AV-M2.1	AV DEVICE PLAN AT LEVEL 2
AV-M3.1	AUDIO PLANS AND SECTIONS AT THEATER

AV-M5.1 WIRE & CONDUIT RISER DIAGRAMS
AV-M6.1 AV BLOCK DIAGRAMS
AV-M7.1 AV PANEL ELEVATIONS
AV-M8.1 AV MOUNTING DETAILS

The following AV drawings dated May 20, 2021 denoted Addendum 02 replace removed AV drawings.
ADD02 AV0 AUDIO-VISUAL COVER PAGE
ADD02 AV2.1 AUDIO-VISUAL CONDUIT RISER
ADD02 AV3.1 AUDIO-VISUAL FLOOR PLAN
ADD02 AV3.2 AUDIO-VISUAL RCP

Audio-Visual drawings (AV-Mx) drawings (10 sheets) provided by "the Shalleck Collaborative Inc." are removed from the set and replaced with District consultant Audio-Visual drawings (ADD02 AVx) provided by Radon (4 sheets).

General scope of bid work shall include the all AV raceways and junction boxes, all wiring and provision of specified assisted listing system. All faceplates, racks, microphones, connections of cables and wiring, activation, adjustment and testing of equipment is owner furnished owner installed (OFOI).

Contractor shall comply with all provisions of specification section 27 4116 AV System for work within the scope described by drawings and above description as part of contractor scope of work and shall coordinate with District AV consultant and contractor to allow for all OFOI scope of work. Contractor shall provide full scope of work related and defined by specification section 27 5101 Assisted Listening System and drawings.

E. BIDDERS QUESTIONS

Item No. 2. 06

Q: I was reviewing the electrical section of the specs and I wanted to check with you just to make sure, but I noticed that in the Electrical Division that the Section 26 2700-Basic Electrical Materials & Methods is missing. Where that section should be is a repeat of Section 26 0500 Basic Electrical Requirements.

A Replace the duplicated section 26 0500 with the attached 26 2700 – BASIC METHODS AND MATERIALS.

Item No. 2. 07

Q: According to AESS spec section 05 1213, the AESS requirement applies to structural steel within 20 feet vertically of a walking surface. Per drawing A-M6.1, the elevation of the exposed structural steel exceeds 20 feet from a person's standing point, which elevation is now 27'-3" to 35'-0" high from the finish floor. The royal treatment of steel may not be visually appreciated at such a far distance from the viewer. Please confirm if AESS spec 05 1213 van be waived for this project.

A No it will not be waived

Item No. 2. 08

Q: Can you please give me your interpretation on the "steel surface prep & finish required" on the following items?

1. Structural Steel Trusses per Detail A/-M5.2 and Sheet S-M2.3
2. Structural Steel Truss Bracing per Details 8/S-M5.1, 9/S-M5.1 and Sheet S-M2.3
3. Steel Basketball Support Tubes per Detail 10/S-M5.2 and Sheet S-M2.3
4. Steel Rain Canopy Framing & Steel Supports per Detail 16/S-5.1 & Sheet S-M2.2 (excluding decking)

A Per specification 05 1213

Item No. 2. 09

Q: On the suspended ceiling specification part 2.05.B says that there can be multiple colors. Please clarify

A A single color will be used on this project

Item No. 2. 10

Q: Will background checks be required for workers that remain within the temporary fencing of the project site.

A Due to the location of the project within campus site, the District is requiring all contractor / subcontractors to comply with the following: Each contractor / subcontractor must provide continual supervision and monitoring of all employees of the entity by an employee of the entity whom the Department of Justice has ascertained has not been convicted of a violent or serious felony (see Contractor Certification Regarding Background Checks as included as a part of the Agreement Form). This requirement applies regardless of whether the employee is working inside or outside of the temporary fencing. All costs related to Department of Justice live scan background checks are the responsibility of the employer of the employee.

Item No. 2. 11

Q: There are some accessories called for on the plans but do not have a specific model number for them in the specs. This includes: 1. Seat Covers Dispenser, 2. Paper Towel Dispenser, 3. Soap Dispenser, 4. Toilet paper dispenser. Please advise with acceptable model numbers or if these accessories are to be OFCI or OFOI? Is there a mop and broom holder to be quoted from the project?

A Those should be owner furnish, contractor installed. Yes, a mop and broom holder should be quoted for the project

Item No. 2. 12

Q: On page 26 of the soils report it calls for 24" Non-Expansive fill at the Gym Building only. IS the entire building considered the Gym or is there a break off?

A Non-expansive fill should extend below the entire building footprint, extending 5' beyond the perimeter of the building footprint

Item No. 2. 13
Q: Is the underground sub going to demo & re-pave their own ditches?

A There is no reference drawing or specification to related to a specific question for the Design team to answer. This appears to be a means and methods question for the general to coordinate with their subs. The District expects that all pavement that is demolished to install utilities be put back to preconstruction condition.

Item No. 2. 14
Q: Can the 24″ Non-Expansive fill be Lime Treat @ 5%?

A Non-expansive fill (NEF) can consist of native material lime treated at 5% by dry weight. Lime treated soil can comprise part or all of the NEF layer, but typically only up to 18″ depth of soil can be lime treated at one time.

Item No. 2. 15
Q: Project manual of this project is missing the aluminum storefront specifications

A See addendum 01

END OF ADDENDUM

ADDENDUM 02

SECTION 11 6623

GYMNASIUM EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Basketball backboards, goals, hoops, nets, and support framing, electrically operated.

B. Volleyball Equipment.

C. Badminton Equipment

D. Scoreboards, electrically operated.

E. Gymnasium Divider Curtains, electrically operated.

F. Floor anchors for tensioned elements.

G. Floor sleeves for net and goal posts.

H. Wall mounted protection pads.

I. Gym divider curtains.

1.02 RELATED REQUIREMENTS

A. Section 01 6116 - Volatile Organic Compound (VOC) Content Restrictions.

B. Section 03 3000 - Cast-in-Place Concrete: Concrete floor slab to receive floor sleeves and anchors.

C. Section 05 1200 - Structural Steel Framing: Structural members supporting basketball systems.

D. Section 06 1000 - Rough Carpentry: Wall Framing and blocking for equipment attachment.

E. Pertinent sections specifying floor finishes.

F. Pertinent sections specifying electrical connections and control conduits/raceways.

1.03 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2019b.

B. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2015.

C. California Code of Regulations, Title 24, Part 2, California Building Code (CBC), International Building Code.

D. California Code of Regulations, Title 24, Part 11, California Green Building Standards Code, “CAL-Green”.

E. Manufacturer's recommendations and installation instructions.

F. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

G. NFSHSA Court and Field Diagram Guide, National Federation of State High School Associations; 2006.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Large Components: Ensure that large components can be moved into final position without damage to other construction.

B. Electrically Operated Equipment: Coordinate location and electrical characteristics of service connection.

1.05 SUBMITTALS

A. Section 01 3300 - Submittals, for submittal procedures.

B. Division of the State Architect Deferred Approval Submittal Requirements:
   1. This section specifies work that is a Division of the State Architect deferred approval item. All Engineering calculations and Shop Drawings require review and approval by the Division of the State Architect prior to fabrication or installation. Deferred Approval review provisions of Section 01 3300 apply to the submittals of this section.
   2. Submit items for deferred approval complete with all structural calculations, test data and information as specified or as subsequently required by the reviewing agency, including engineering stamps and signatures as required. Architect shall submit to DSA only following Architect/Engineer review.
      a. The Architect will not approve deferred approval submittals until they are approved by DSA.
   3. No work or fabrication shall begin until DSA approved submittals are distributed to the Contractor.
   4. Contractor is notified that significant lead time is required for deferred approval review by DSA and shall schedule submittals accordingly. No extension of Contract Time will be allowed for delays incurred by deferred approval review.
      a. The Architect is not responsible for DSA delays in deferred approval review.
   5. Submit Certification of Compliance and all other documentation as required by Division of the State Architect.
   6. Make all changes and revisions required by Division of State Architect to obtain approval at no additional costs or extension of time.

C. Product Data: Provide manufacturer's data showing configuration, sizes, materials, finishes, hardware, and accessories; include:
   1. Electrical characteristics and connection locations.
   2. Fire rating certifications.
   3. Structural steel welder certifications.
   4. Manufacturer's installation instructions.

D. CAL-GREEN Submittals:
   1. Product Data – VOC Limits: For adhesives, sealants, fillers, primers and coatings, documentation including printed statement of VOC contents, comply with limits specified in related section.
   2. Composite Wood Formaldehyde Limits: Provide certification that all products meet current CARB Airborne Toxic Control Measure (ATCM) for Composite Wood Formaldehyde Limits by Mandatory Compliance Dates as specified in related section.
   3. Product Data - Low/No-VOC Paints and Coatings. Provide certification that all primers and coatings meet VOC emission limits specified in related section. List manufacturer, brand, application, type (flat or non-flat), number of gallon, and the VOC emissions in grams/liter. Include MSDS and product data sheet indicating VOC limits for each product provided.

E. Design Data: Indicate Applicable sport associations standards.

F. Shop Drawings: Indicate Complete layout and installation drawings for all equipment. Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
   1. Show all details and fully define anchoring systems; show all insert locations fully dimensioned.
   2. Show all details of attachment into actual floor and wall conditions used on this project.
   3. All anchorage drawing details shall bear original stamp and signature of California licensed Structural Engineer responsible for preparation of the Structural Engineering Calculations.

G. Samples: Submit samples of wall pad coverings in manufacturer's available range of colors, textures, and graphics.
   1. Submit two color cards, 8.5 x 11 inch in size, illustrating product color selections.
   2. Available curtain fabrics.

H. Certificates: Certify that products of this section meet or exceed specified requirements.
   1. Structural Engineering Calculations: Submit for all components and assemblies; signed and stamped by a California licensed Structural Engineer.
   2. Proof of qualifications for manufacturer and installer: Submit DSA approval file and application numbers for at least 3 previous projects.

I. Manufacturer's Instructions: Indicate specific installation requirements.

J. Operating and maintenance data, for each operating equipment item.

K. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Attachment details and all required supporting information and calculations must be submitted to DSA, through the Architect, for approval prior to installation of athletic equipment.
   2. Backstops are a DSA deferred approval item. Review and approval by the Division of the State Architect of engineering calculations and shop drawings before fabrication.

B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than ten years of documented experience.
   1. Recognized and approved by the California State Division of the State Architect as a manufacturer of athletic equipment systems.
   2. Aware of all DSA requirements for fabrication and installation of athletic equipment systems.
   3. Have successfully prepared a Deferred Approval submittal to DSA on a minimum of five occasions.

C. Installer Qualifications: Company specializing in performing work of the type specified and approved by manufacturer.

D. Design backstop support structure under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed in California.

E. Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to project site in manufacturer's original packaging with factory original labels attached.

B. Store products indoors and elevated above floor; prevent warping, twisting, or sagging.

C. Store products in accordance with manufacturer's instructions; protect from extremes of weather, temperature, moisture, and other damage.

D. Sequence installation of equipment to avoid traffic over finish floor materials.

1.08 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. VOC Limits for adhesives, sealants, fillers, primers and coatings . Comply with limits specified in related section.

B. Composite Wood products must meet current CARB Airborne Toxic Control Measure (ATCM) for Composite Wood Formaldehyde Limits by Mandatory Compliance Dates as specified in related Section.

2.02 MANUFACTURERS - GENERAL

A. For convenience in identifying products, manufacturer's proprietary names or catalog numbers may be indicated. Unless modified by Specifications or notation on Drawings, manufacturer's complete product catalog description for indicated product name or number shall constitute requirements for each product. Products shall incorporate all features set forth in the manufacturer's catalog description for the standard item, except for such modifications thereto as may be indicated in the Contract Documents.

B. Use of proprietary names, catalog numbers, and specific requirements set forth in the Contract Documents, are not intended to preclude use of other manufacturer's product or procedure which may be equal thereto, subject to requiremens for substitutions specified in Section 01600, but are given to establish standard of design and quality for materials, construction and workmanship.

C. General: Whenever a particular product, material, trade name and/or manufacturer's name is specified, it is the minimum standard of quality required.
   1. Product names specified in this section form the basis of the contract documents and are from manufacturers represented locally by Southwest Interiors, 26115 Table Meadow Road, Auburn, CA 95602.
   2. Area Representative: Bob Walters, 530-269-2855.

D. Substitutions: See Section 01 6000 - Product Requirements.
   1. Contractor will not be allowed to substitute products or manufacturers after the bid opening date except as otherwise provided in Section 01 6000. Failure to comply with this requirement is grounds for disqualification of substitution.
   2. Requests for substitution of proposed alternate systems must meet or exceed the following specified characteristics; must be made in writing prior to bid date; and be approved in writing via addenda by the Architect prior to the bid date, all in strict accordance with Section 0 16000.

3. Documentation of Substitutions: Substituted products and/or systems will only be considered if the proposed substitute is rquested timely; fully documented as being equivalent or superior in quality to the specified system as described in these specifications; without exception. Additionally, all manufacturer and installer/fabricator guidelines must be met as specified.
   a. All performance requirements listed must be met and submitted as well as all items listed in the QUALITY ASSURANCE Article.
   b. Submit complete product and test data as specified under SUBMITTALS Article for each proposed substitution.

2.03 MANUFACTURERS

A. Gymnasium Equipment:
   1. Porter Athletic Equipment Company; _____: www.porterathletic.com/#sle.
   2. Substitutions: See Section 01 6000 - Product Requirements.

2.04 GENERAL REQUIREMENTS

A. See drawings for sizes and locations, unless noted otherwise.

B. Where mounting dimensions or sizes are not indicated, comply with applicable requirements of the following:
   1. National Federation of State High School Associations (NFHS) sports rules.

C. Provide mounting plates, brackets, and anchors of sufficient size and strength to securely attach equipment to building structure; comply with requirements of Contract Documents.

D. Hardware: Heavy duty steel hardware, as recommended by manufacturer.

E. Electrical Wiring and Components: Comply with NFPA 70; provide UL-listed equipment.

F. Structural Steel Fabrications: Welded in accordance with AWS D1.1/D1.1M, using certified welders.

2.05 BASKETBALL COMPONENTS

A. Backboards: Tempered glass, rectangular shaped.
   1. Frame: Brushed aluminum edge, steel mounting.
   2. Provide conversion frame, mountable on both assemblies designed for fan shaped backboards and assemblies designed for rectangular backboards.
   3. Dimensions: 42 inches high by 72 inches wide
   4. Thickness: 0.5 inches.
   5. Markings: Painted.
   6. Provide safety padding for bottom edge of backboard.
   7. Provide mounting kit.
   8. Color: Manufacturer's standard.
   9. Product: 00208-000 manufactured by Porter.

B. Goals: Steel rim, mounted to backboard, with attached nylon net; complete with mounting hardware.
   1. Net Attachment Device: Tube-tie.
   2. Breakaway mechanism, adjustable.
   3. Finish: Powder coat orange.
   4. Product: Porter “Ultra-Flex” model No. 00245-500.

C. Winch: Worm gear type, designed to hold backstop in any positions when raising or lowering, Model 0070x.

1. Motor: Size as recommended by manufacturer, electric operation, thermally protected,
2. Limit Switch: Precisely limit up and down operation of the winch.
3. Wall Switch: Dual keyed, flush mounted, momentary key which cannot be instantly reversed. Gang switch installation for multiple backstops.
4. Manual Operation: Include provisions for manual operation of winch in event of failure.

D. Backstop control center; Wall mounted, located in flash cabinets locatred on electrical drawings, power-touch, 2.5 stimultaneous operation gymnasium control center, Porter Model 02500-000. Located in flash cabinets locatred on electrical drawings.

2.06 BASKETBALL BACKSTOP AND GOAL ASSEMBLIES

A. Main Court Backstop: Ceiling suspended, forward fold, front braced, Model 917, with off set weight stabilizing system, adjustable hangers, all welded construction, 10 gage mast stem and center strut design..
1. Backstop Safety Lock: All backstops, inertia-sensitive lock with 2 inch nylon belt, 6000 pound breaking strength, withstanding 1000 pound free-falling load; "Saf-Strap" Model 10797-100."Safe-Strap" Automatic inertial locking mechanism to lock backstop in position in case of winch failure, provide complete with "Retractor-Reel".
2. Backboard: Glass, fully tempered, 1/2-inch thickness, within a steel frame; rectangular shape, Model No. 00204-000; 72 inch by 42 inch.
3. Backboard Safety Padding, 00326-000 bolt-on type compatible with specified backboard, minimum 8 year warranty.
4. Electric winch operation.

B. Cross Court Backstop: Ceiling Suspended, forward fold, front braced, Model 917, with off set weight stabilizing system, adjustable hangers, all welded construction, 10 gage mast stem and center strut design.
1. Backstop Safety Lock: All backstops, inertia-sensitive lock with 2 inch nylon belt, 6000 pound breaking strength, withstanding 1000 pound free-falling load; "Saf-Strap" Model 10797-100."Safe-Strap" Automatic inertial locking mechanism to lock backstop in position in case of winch failure, provide complete with "Retractor-Reel".
2. Backboard: Glass, fully tempered, 1/2-inch thickness, within a steel frame; rectangular shape, Model No. 00204-000; 72 inch by 42 inch.
3. Backboard Safety Padding, 00326-000 bolt-on type compatible with specified backboard, minimum 8 year warranty.

C. Winch: Worm gear type, designed to hold backstop in any positions when raising or lowering, Model 0070x.
1. Motor: Size as recommended by manufacturer, electric operation, thermally protected,
2. Limit Switch: Precisely limit up and down operation of the winch.
3. Manual Operation: Include provisions for manual operation of winch in event of failure.

D. Controls: Remote touch pad operation, Porter E2500.

E. Backstop control center; Wall mounted, key pad, power-touch, 2.5 stimultaneous operation gymnasium control center, Porter Model 02500-000.

2.07 SCOREBOARDS AND SHOT TIMERS

A. Gymnasium Interior Scoreboard(s): Fair-Play Model BB-3600-4
1. "Panaview" design with 13 inch high seven-bar segment-per-digit LED lighting. 9 feet x 5 feet x 4 inches deep.

2. Aluminum Panel construction, colors selected by Architect from 250 available options at no additional cost.
3. Captions: Vinyl lettering, "HOME" and GUEST 6 inches high, all others 4 inch. Provide "Home Team Name" in lieu of "HOME".
4. Control Console, wireless, Fair-Play Scoreboards, Model MP72,aluminum case, sealed-membrane water-resistant keyboard, capable of controlling compatible keyboards through game-specific inserts. Provide with inserts for Basketball, Volleyball, and Wrestling.
   a. Console-to-Wall Control Cable: Shielded, one-pair, 24 AWG, minimum 20 feet long, with compatible connectors.
   b. Junction Box: Manufacturers standard wall box suitable for concealed mounting as indicated, with mounted connector sockets.
   c. Carrying Case: Standard type.
5. Control Cable: Manufacturer's recommended type, connecting scoreboards to console junction box(es).
6. Horn: Vibrating type, mounted behind scoreboard face, automatic sounding on end of period, manually by operator and as controlled by segment timer.
   a. Visual Horn Indicator: Manufacturer's standard type, Model VHI 150.
7. Custom school mascot panel.
8. Segment Timer: Sound horn automatically at end of user-defined time period for use in practices.

B. Shot Timer: Fair-Play Scoreboards, Model ST-1411-4.
   1. "Panaview" design with13 inch high seven-bar segment-per-digit LED lighting.
   2. Aluminum panel construction, color selected by Architect matching scoreboard.
   3. Interlock with Scoreboard to tie Shot Clock timer with game clock stop.

C. Manufacturers:
   1. Fair-Play Scoreboards, Des Moines, IA, www.fairplay.com
   2. Daktronics, Inc., Brookings, SD, www.daktronics.com.
   3. Nevco Scoreboard Company, Greenville, IL, www.nevcoscoreboards.com.
   4. Substitutions: See Section 01 6000 - Product Requirements.

2.08 GYMNASIUM DIVIDER CURTAIN

A. Curtain: Approved by California State Fire Marshal. Size as noted on Drawings. Porter Model 2080 series for configuration specified.
   1. Operation: Roll-Up.
   2. Fabric Section: Continuous 22 ounce reinforced vinyl-coated polyester fabric with horizontal heat welded seams and anti-microbial treatment, meeting standards of California State Fire Marshal and conforming to UL-214 and NFPA-701. All seams fully welded. Color as selected by Architect from manufacturer’s standards, minimum of twelve choices.
      a. Fabric Height: 8'-0" above finish floor.
   3. Mesh Section: Vinyl coated polyester mesh, 45 to 50 percent open, with PVC coating, white color. Provide from top of fabric to ceiling height.

B. Suspension Assembly:
   1. Steel tubes top and bottom. Bottom tube designed to enable curtain to be rolled up compactly and wrinkle-free around the tube.
   2. Entire curtain assembly suspended from hoistbelt.

C. Motor : Manufacturer's standard 115 v., single phase reversible, geared motor provided as part of Curtain Assembly. Horsepower capacity as recommended by manufacturer for curtain size and type indicated.

D. Limit Switch: Precisely limit up and down operation of the winch.

E. Controls: Wall mounted, key pad, power-touch, 2.5 stimultaneous operation gymnasium control center, Porter Model 02500-000.

F. Manufacturers:
1. Porter Athletic Equipment Company, Broadview, IL; www.porter-ath.com is specified.
2. Substitutions: See Section 01600 - Product Requirements.

2.09 VOLLEYBALLEQUIPMENT AND ACCESSORIES

A. Upright Poles: Powder coated steel, 3-1/2 inch outside diameter. Net height settings adjustable by sliding collar and spring loaded pin.
1. Porter Model 1952.
2. Game Standard Inserts: Steel sleeve with swiveling non-removable floor plate, brass finish, vandal-resistant key. Model and dimensions recommended by manufacturer to suit upright poles and finish flooring types indicated.
3. Manual Winch: drumless, with nylon tension strap, placed on upright at net height.

B. Pads: Upright pole safety pads, standard configuration; color as selected by Architect from manufacturer's standards; Porter Model No. 839-1XX.

C. Net: Black No. 36 nylon cord, 4 inch square, top cable nylon coated to prevent fraying. Tension straps and dowels in end pockets to assist net tension. Size to match court layout(s) indicated, Model 02295-640 "Powr-Line" Net.
1. Net Antennas and Boundary Markers: International quality, positive locking, securing to net hems. Manufacturer's standard type.

D. Storage cart: Manufacturer's recommended best-quality model to accommodate specified products for relocation and efficient storage, sized to fit 36 inch door opening.

2.10 BADMINTON EQUIPMENT AND ACCESSORIES

A. Upright Poles - Permanent: Powder coated steel, 2-3/8 inch outside diameter, Model 764.
1. Furnish with brass color swivel floor plate and sleeve. Oversized, for floating wood floor.
2. Manual Winch: drumless, with nylon tension strap, placed on upright at net height.

B. Net: Black 1/4 inch diameter braided polypropylene rope and top cable, 3/4 inch squares with tension straps and dowels in end pockets to assist net tension. Size to match court layout(s) indicated, Model 2236.

C. Game Standard Inserts: Steel sleeve with brass color swivel floor plate, model and dimensions recommended by manufacturer to suit upright poles and finish flooring types indicated. Porter Model 00770-xxx.

D. Storage cart: Manufacturer's recommended best-quality model to accommodate specified products for relocation and efficient storage, sized to fit 36 inch door opening.

2.11 FLOOR-MOUNTED EQUIPMENT

A. Volley Ball Nets and Posts: One court system of adjustable posts, net, and tensioning winch meeting requirements for FIVB, USA Volleyball, NCAA and NFHS competition requirements.

1. Posts: 3-1/2 inch O.D. schedule 80 aluminum tube with 1 inch height adjustments between 42 and 96 inches.
2. Net: 4 inch square #36 nylon cord with vinyl coated polyester hem, double stitched around the perimeter.
3. Tensioning Winch: Manual crank heavy duty, self-locking worm gear mechanism.

B. Floor Sleeves for Posts: Metal sleeve, with latch cover, cast into concrete subfloor to hold poles for nets and goals; installed flush with finish floor surface.
1. Latch Cover: Brass, round; tamper resistant lock with key.
2. Sleeve: Aluminum.
3. Depth of Sleeve: 9 inches from floor surface to bottom, including latch cover.

2.12 WALL PADDING

A. Wall Padding: Foam filling bonded to backing board, wrapped in covering; each panel fabricated in one piece. Porter Model 00340 series "FR-SAFPAD".
1. Surface Burning Characteristics: Flame spread index (FSI) of 25 or less, smoke developed index (SDI) of 450 or less, Class A, when tested in accordance with ASTM E84 as a complete panel.
2. Listed as fire-retardant by California State Fire Marshal per method 5903. Entire Pad Assembly Class A fire certification.
3. Covering: Vinyl-coated polyester fabric, mildew and rot resistant; stapled to back of board.
   a. Color: As selected from manufacturer's standard range. Minimum fifteen choices.
   b. Texture: Embossed leather-look.
   c. Custom Graphics: To be supplied by Owner.
   d. Fabric Weight: 14 oz/sq yd.
4. Foam: Open cell polychloroprene (Neoprene) 5.5 pcf nominal density.
5. Foam Thickness: 1-1/2 inches.
6. Backing Board: Plywood.
   a. Thickness: 1/2 inch.
   b. Surface Burning Characteristics: Flame spread index (FSI) of 25 or less, smoke developed index (SDI) of 450 or less, Class A, when tested in accordance with ASTM E84.
7. Panel dimensions and extents: Width and extents as indicated, six feet height.
8. Mounting: Removable; Z-clips fixed to wall and to padding.
9. Molded Vinyl Wall Pad Inserts: Porter Models 341 and 342.

B. Specially Shaped Padding: Same construction as standard padding; custom fabricate to fit irregularly shaped members, areas, and protrusions in gymnasium as indicated; provide padding for:
1. Wall corners.

2.13 ACCESSORIES

A. Mounting Hardware: Vandal-proof screws, bolts, anchors, stainless steel at exterior exposure, size and type recommended by manufacturer to suit applications and resist applied loads.

B. Accessories and materials as recommended by Manufacturer and as required for complete installation as indicated.

2.14 MIXES

A. Concrete: Type specified in Section 03300..

2.15 FACTORY FINISHING

A. Finish all steel parts with baked-on enamel.

B. Provide nine color options for backstop frame and pipes.

PART 3 EXECUTION

3.01 EXAMINATION

A. Take field measurements to ensure proper fitting of work. If taking field measurements before fabrication will delay work, allow for adjustments within recommended tolerances.

B. Inspect areas and conditions before installation, and notify Architect in writing of unsatisfactory or detrimental conditions.

C. Do not proceed with this work until conditions have been corrected; commencing installation constitutes acceptance of work site conditions.

3.02 INSTALLATION

A. Install in accordance with Contract Documents and manufacturer's instructions.

B. Install goals and inserts in precise location required for alignment with game lines.

C. Coordinate installation of inserts and anchors that must be built in to flooring or subflooring.

D. Install equipment rigid, straight, plumb, and level.

E. Secure equipment with manufacturer's recommended anchoring devices.

F. Set floor plates flush with finished flooring.

G. Install wall padding securely, with edges tight to wall and without wrinkles in fabric covering. Provide hemmed cut-out openings to accommodate required penetrations for electrical or other services.

H. Separate dissimilar metals to prevent electrolytic corrosion.

3.03 ADJUSTING

A. Verify proper placement of equipment.

B. Verify proper placement of equipment anchors and sleeves, and use actual movable equipment to be anchored if available.

C. Adjust operating equipment for proper operation; remove and replace equipment causing noise or vibration; lubricate equipment as recommended by manufacturer.

3.04 CLEANING

A. Remove masking or protective covering from finished surfaces.

B. Clean equipment in accordance with manufacturer's recommendations.

C. Do not permit traffic over unprotected floor surface.

3.05 STARTING AND DEMONSTRATION

A. Provide manufacturer's field representative to prepare and start equipment.

B. Adjust for proper operation within manufacturer's published tolerances.

C. Demonstrate proper operation of equipment to Owner 's designated representative.

3.06 SCHEDULES

A. Volleyball Net Systems: 2 complete sets

B. Badminiton Net Systems: 6 complete sets

C. Volleyball Storage Carts: 1 carts

D. Badminton Storage Carts: 1 carts

END OF SECTION

ZFA STRUCTURAL ENGINEERS
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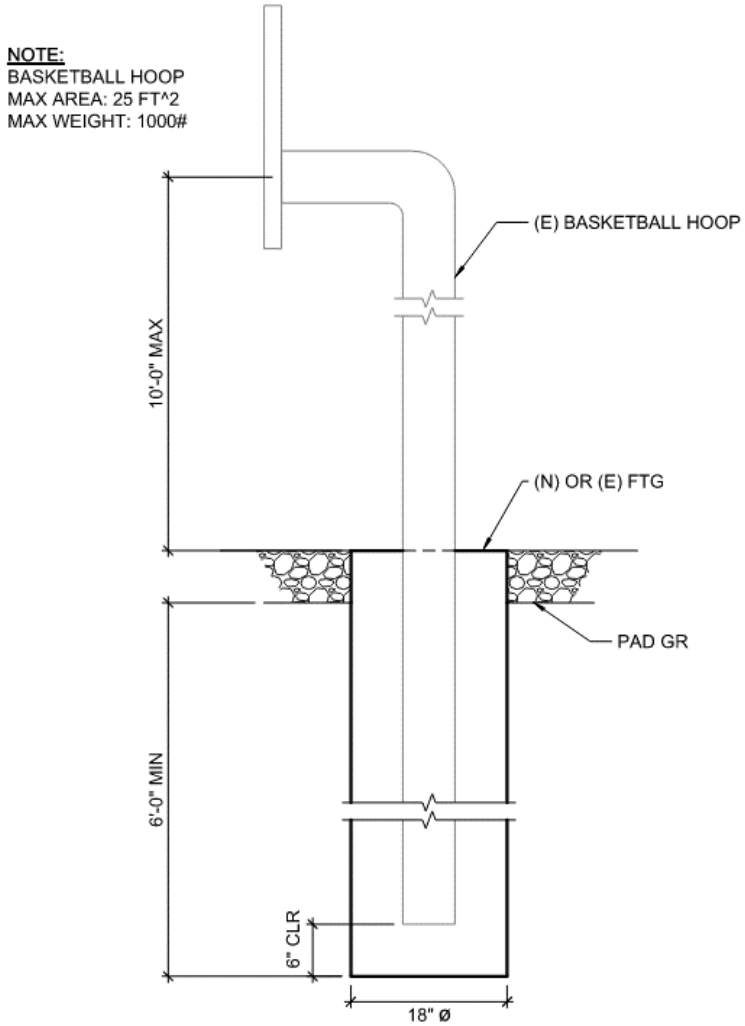
STRUCTURAL ENGINEER MEMO **SEM 01**

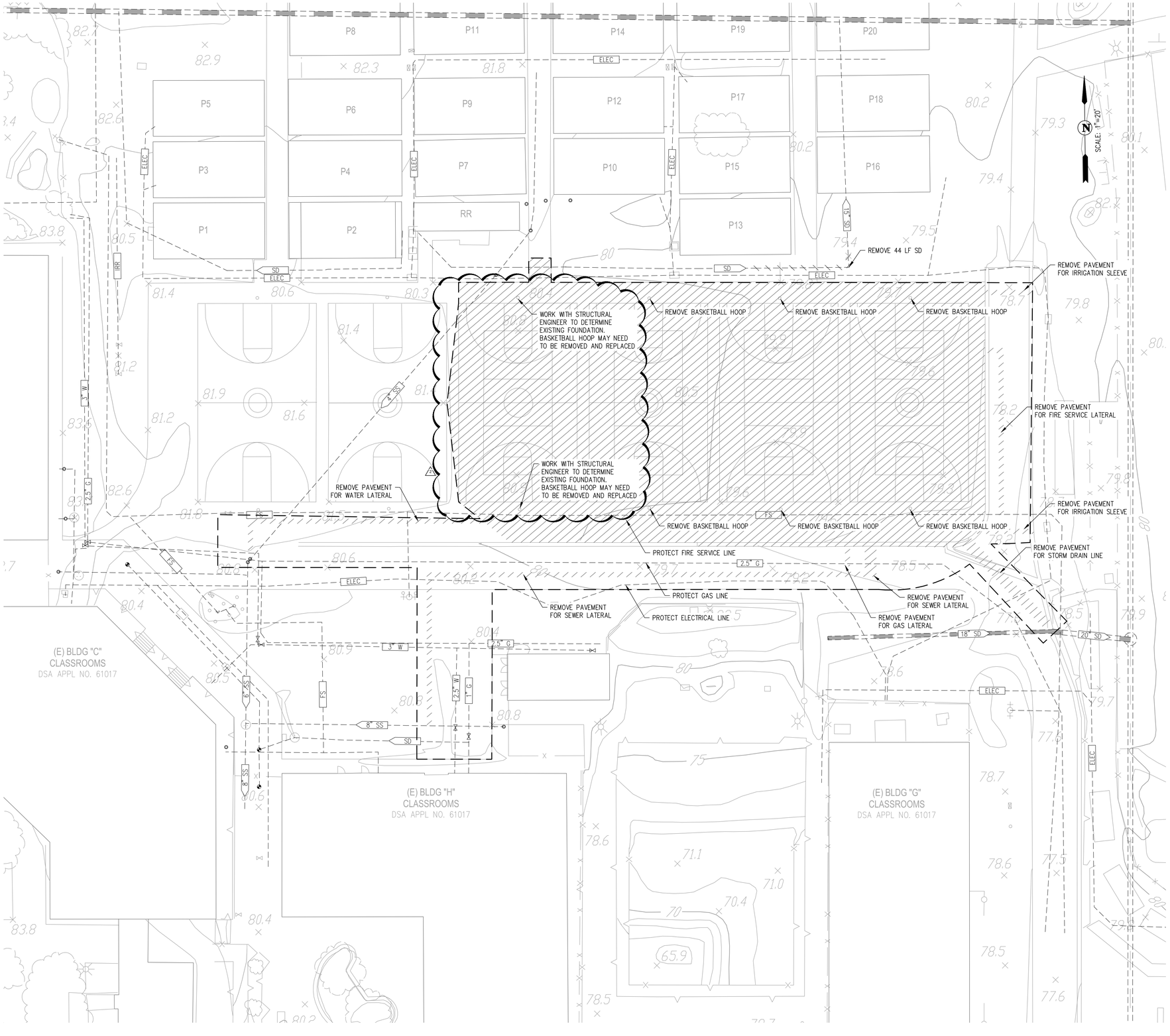
To:	Cam Hawing
Company Name:	**QUATTROCCHI KWOK ARCHITECTS**
From:	Chris Warner, SE
Date:	2021-05-20
Regarding:	Existing Basketball Hoop Foundation
Project:	Freedom High School - New Auxiliary Gymnasium DSA File #7-H4 DSA Application #01-119278 ZFA #20315

Pending DSA review and approval, it is structurally acceptable to provide a pier foundation at the existing outdoor basketball hoops per detail added to S-M4.1.



10 BASKETBALL HOOP FOUNDATION

DRAWING: ADD 02.01



LEGEND

- LIMIT OF WORK
- REMOVE CONCRETE
- REMOVE AC
- 6" SS — EXISTING SANITARY SEWER
- 18" SD — EXISTING STORM DRAIN
- 12" W — EXISTING WATER
- 6" IRR — EXISTING IRRIGATION LINE
- COMM — EXISTING COMMUNICATION LINE
- ELEC — EXISTING ELECTRICAL LINE
- EXISTING INLET
- EXISTING MANHOLE
- EXISTING SSCO

NOTES:
1. SAWCUT CONCRETE ON NEAREST SCORE LINE.
2. PRIOR TO DEMOLITION OF IRRIGATION LINES, PROVIDE AND INSTALL IRRIGATION TO SUPPORT EXISTING TURF AND LANDSCAPING TO REMAIN. SEE LANDSCAPE DRAWINGS (IRRIGATION PLAN).

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REVISIONS

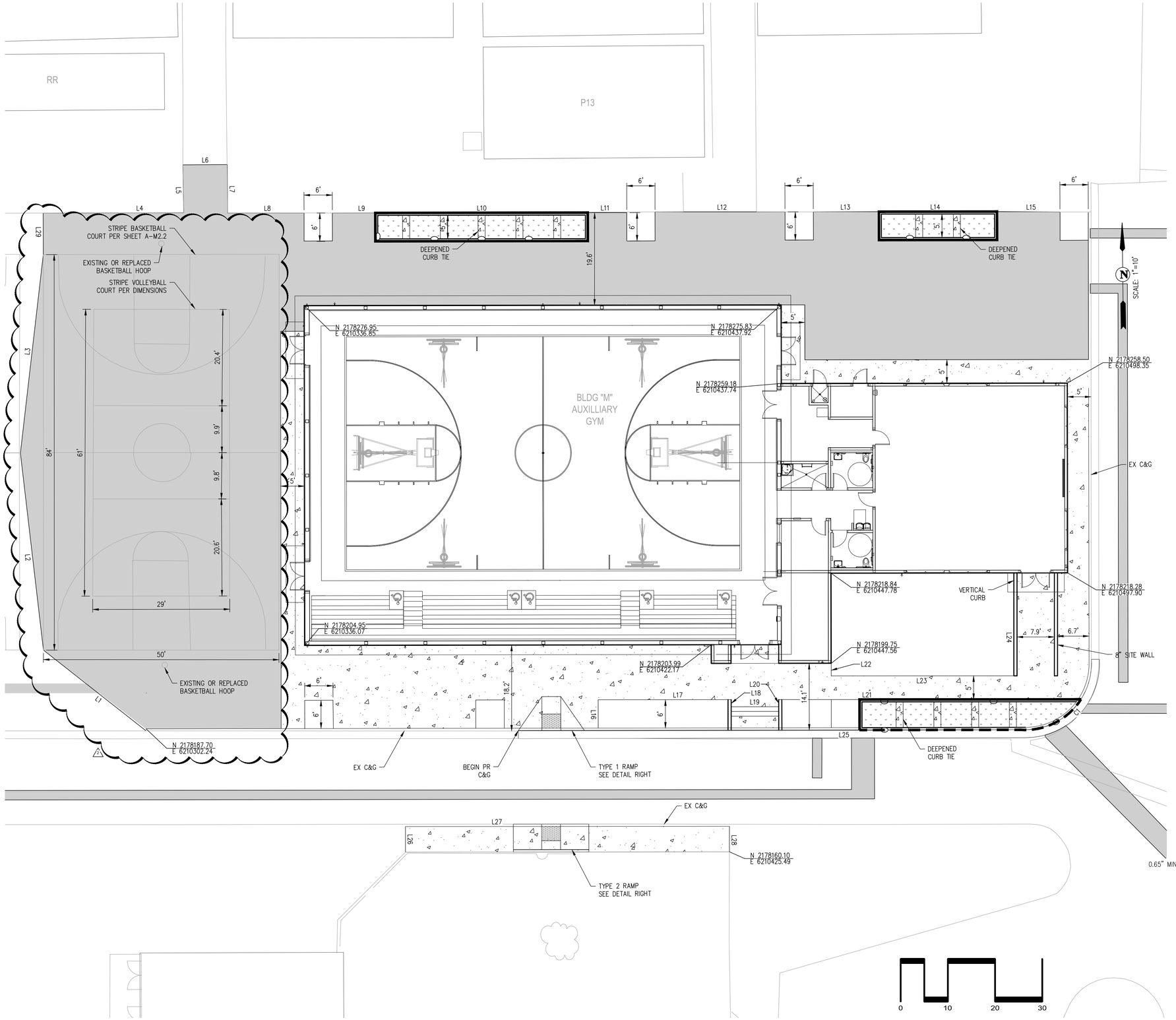
△	5/7/21	ADDENDUM #2

DSA APP NO. 01-119278
ARCH PROJECT NO: 1869.00
DRAWN BY:
DRAWING SCALE:
PTN: 61721-78 FILE NO: 7-H4
CONSTRUCTION DOC.
MAY 5, 2021

SHEET TITLE

EXISTING CONDITIONS / DEMOLITION

SHEET NUMBER
ADDENDUM 02
C-1.0



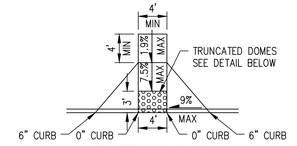
LEGEND

- AC PAVEMENT (2.5" AC OVER 9" CLASS II AB)
- CONCRETE SIDEWALK (SEE DETAIL C-2.1)
- CURB AND GUTTER
- CURB CUT (SEE BELOW)
- DEEPENED CURB AND GUTTER (SEE DETAIL C-2.1)
- DEEPENED VERTICAL CURB (SEE DETAIL C-2.1)

LINE TABLE		
NO	BEARING	LENGTH
L1	27.680	N51° 05' 55.81"W
L2	42.017	N05° 57' 14.87"W
L3	42.346	N07° 18' 07.21"E
L4	19.466	S89° 24' 53.29"E
L5	10.139	N00° 21' 09.03"W
L6	9.424	S89° 41' 27.27"E
L7	10.272	S00° 21' 35.94"W
L8	16.202	S89° 18' 41.69"E
L9	11.106	S89° 21' 31.45"E
L10	41.000	S89° 21' 06.41"E
L11	10.262	S89° 21' 06.41"E
L12	27.548	S89° 17' 17.63"E
L13	13.903	S89° 21' 06.41"E
L14	25.000	S89° 21' 06.41"E
L15	13.360	S88° 52' 50.90"E

LINE TABLE		
NO	BEARING	LENGTH
L16	6.012	N00° 40' 52.14"E
L17	28.173	N89° 19' 07.86"W
L18	1.500	S00° 37' 27.28"W
L19	10.073	N89° 19' 07.86"W
L20	1.500	S00° 37' 27.28"W
L21	63.433	N89° 19' 07.86"W
L22	2.668	S00° 41' 49.46"W
L23	38.706	N89° 18' 10.54"W
L24	21.791	S00° 40' 55.76"W
L25	107.474	S89° 22' 32.72"E
L26	5.418	S00° 40' 52.14"W
L27	68.650	S89° 19' 34.65"E
L28	5.399	S00° 40' 52.14"W
L29	8.793	N00° 35' 06.71"E

CURVE TABLE			
NO	RADIUS	DELTA	LENGTH
C1	13.98'	090°00'05"	21.96'



TYPE 1 RAMP
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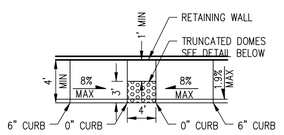

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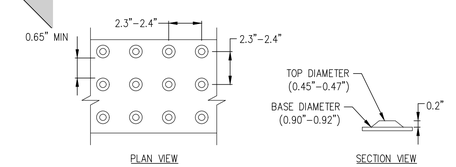

TYPICAL TRUNCATED DOME
DETAIL PER CBC 11B-705.1.1
COLOR TO BE YELLOW
NOT TO SCALE

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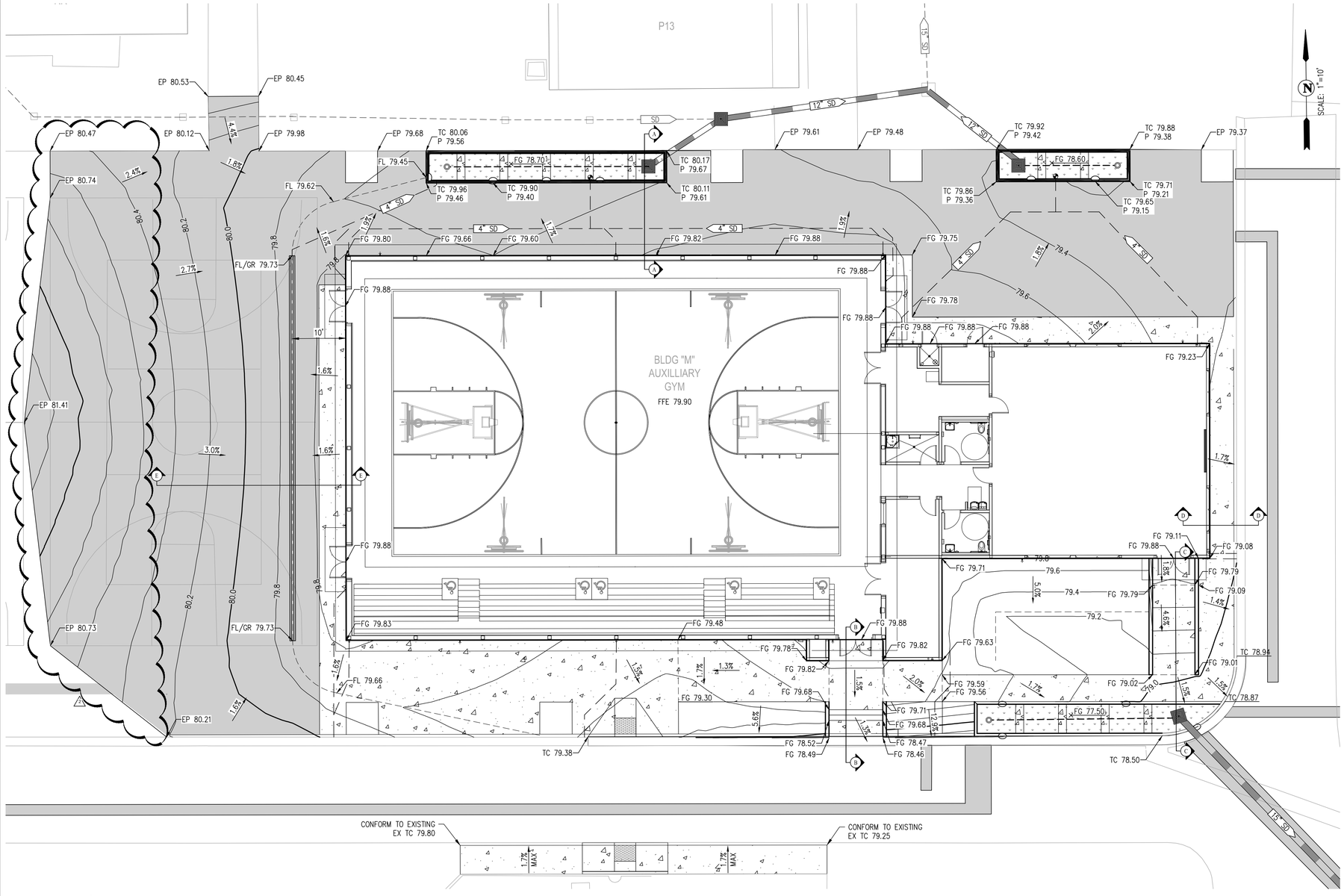
SHEET TITLE

HORIZONTAL CONTROL PLAN

SHEET NUMBER

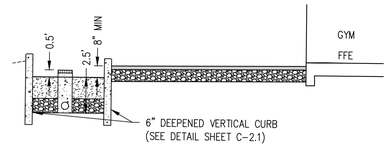
ADDENDUM 02

C-2.0



LEGEND

- AC PAVEMENT
- CONCRETE SIDEWALK/GUTTER
- BIO-RETENTION AREA
- 15" SD — PROPOSED STORM DRAIN
- PROPOSED PERFORATED STORM DRAIN (BIORETENTION AREA)
- RAIN WATER LEADER / COMMON AREA DRAIN
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- AREA DRAIN
- PROPOSED SD CLEANOUT
- PROPOSED CURB CUT
- 18" SD — EXISTING STORM DRAIN
- EXISTING FIELD INLET
- EXISTING MANHOLE



A-A DETAIL
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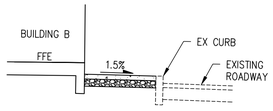

D-D DETAIL
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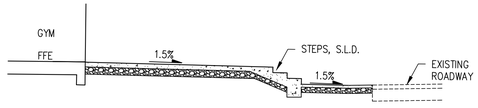

B-B DETAIL
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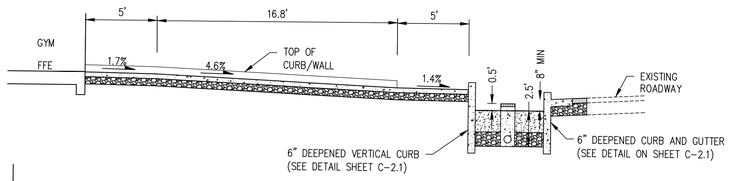

C-C DETAIL
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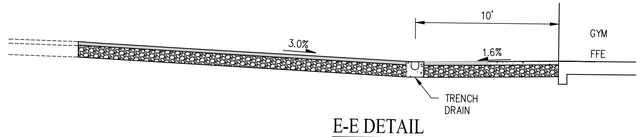

E-E DETAIL
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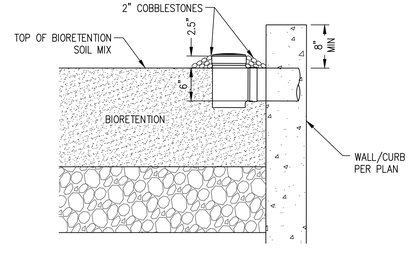

NDS POP-UP DRAINAGE EMITTER - (OR APPROVED EQUIVALENT) AT BIORETENTION PLANTERS
NOT TO SCALE

0 10 20 30

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REVISIONS

2	5/7/21	ADDENDUM #2

DSA APP NO. 01-119278
ARCH PROJECT NO: 1869.00
DRAWN BY:
DRAWING SCALE:
PTN: 61721-78 FILE NO. 7-H4
CONSTRUCTION DOC.
MAY 5, 2021

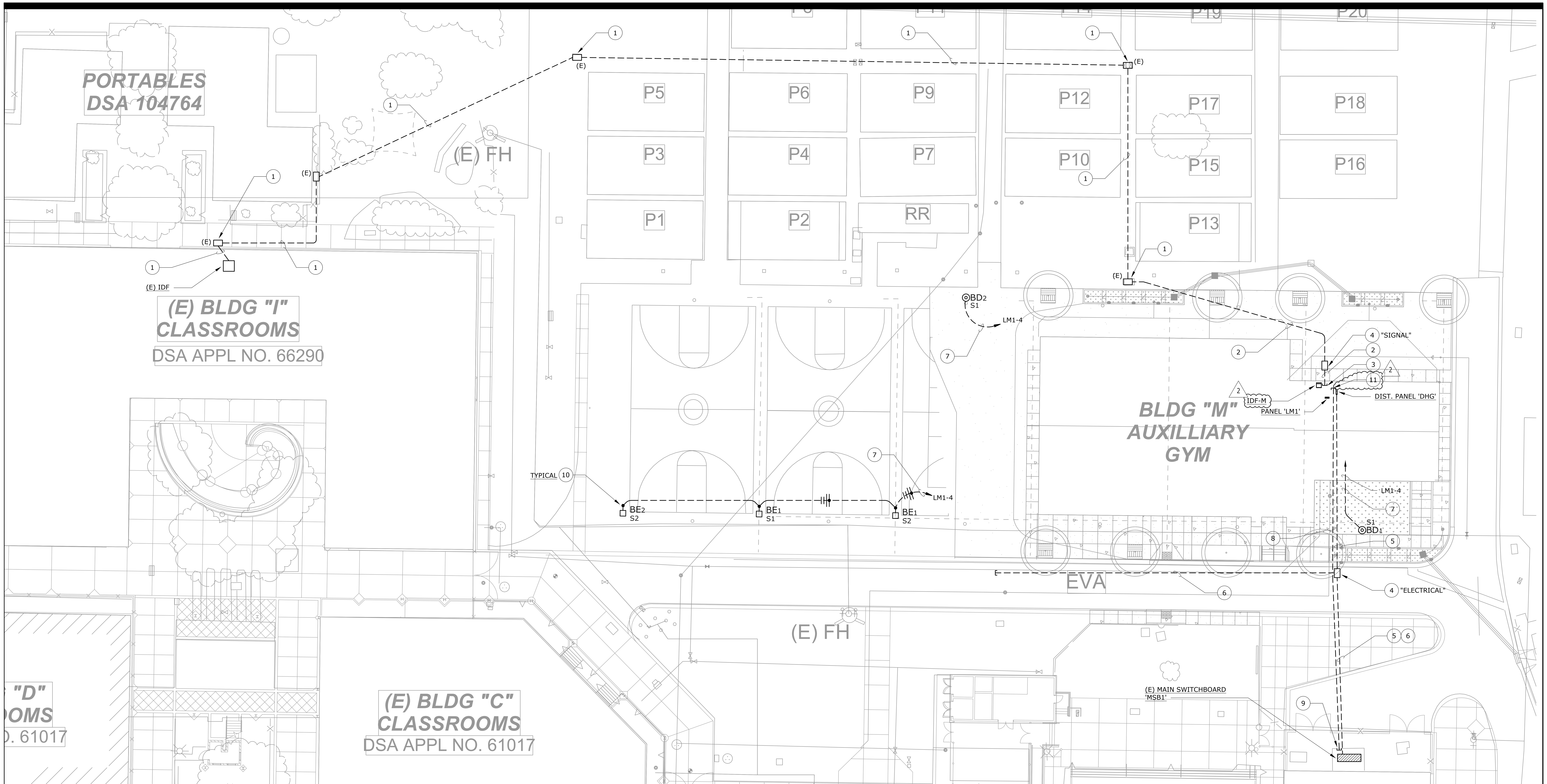
SHEET TITLE

GRADING AND DRAINAGE PLAN

SHEET NUMBER

ADDENDUM 02
C-4.0

FREEDOM HS AUX GYMNASIUM – 220066



SITE PLAN - ELECTRICAL

SCALE: 1" = 20'-0"

1 / E-1.1

REF. NORTH

NUMBERED SHEET NOTES

1. ROUTE (N) SIGNAL CABLING IN AVAILABLE (E) PULLBOXES AND UNDERGROUND RACEWAY. INCLUDE SUFFICIENT LABOR IN BID TO INVESTIGATE THE (E) CONDUIT ROUTE FROM (E) IDF TO (N) AUXILIARY GYM IDF-G. SEE E-5.2 FOR CABLE QUANTITIES AND TYPES.
2. PROVIDE AND INSTALL UNDERGROUND SCHEDULE 40 PVC RACEWAY AS FOLLOWS:
   (1) 4" C. - FIBER OPTIC (TELECOM, CLOCK/SPEAKER) - SEE 2/E-5.2.
   (1) 2" C. - SPARE - STUB CONDUIT AT BACKBOARD.
3. STUB RACEWAY INTO ELEC 109, ADJACENT TO IDF-G.
4. PROVIDE AND INSTALL FLUSH, IN-GRADE PULLBOX, CHRISTY (OR EQUAL), WITH COVER LABLED AS NOTED ON PLAN. PULLBOX SHALL BE "TRAFFIC RATED" REINRFORCED CONCRETE WITH STEEL FRAME AND STEEL COVER. SIZE PULLBOX PER NEC. SEE 2/E-7.2.
5. PROVIDE AND INSTALL UNDERGROUND SCHEDULE 40 PVC RACEWAY. SEE E-5.1 FOR CONDUIT AND CONDUCTOR SIZES.
6. PROVIDE AND INSTALL (2) 4" UNDERGROUND SCHEDULE 40 PVC RACEWAY TO SERVE FUTURE CONSTRUCTION. STUB OUT, CAP AND MARK AS SHOWN. SEE 9/E-7.1.
7. ROUTE ALL EXTERIOR LIGHTING CIRCUITS HOME VIA BMS-CONTROLLED RELAY CONTRACTS LOCATED IN ELECTRIC ROOM. RELAY CONTRACTS AND BYPASS SWITCHES TO BE PROVIDED BY DIVISION 23. TYPICAL ALL EXTERIOR BUILDING-MOUNTED AND POLE-MOUNTED LUMINAIRES. SEE DETAIL 5/E-5.3.
8. PROVIDE AND INSTALL 2" UNDERGROUND SCHEDULE 40 PVC RACEWAY ONLY FOR FUTURE PV SYSTEM CONNECTION TO (E) MSB. STUB UP IN ELEC 109, DIRECTLY UNDER LOCATION RESERVED FOR FUTURE PV SYSTEM DISCONNECT SWITCH. SEE E-3.1.
9. STUB, CAP AND MARK RACEWAY FOR FUTURE PV SYSTEM IN FRONT OF (E) MSB, AT THE END OF THE DISTRIBUTION SECTION THAT IS THE FURTHEST DISTANCE FROM WHERE THE (E) MSB BUS RECEIVES ITS SUPPLY. SEE E-5.1 AND 9/E-7.1.
10. FIELD LOCATE AND IDENTIFY ALL (E) UNDERGROUND UTILITIES IN THIS AREA. INSTALL POLE MOUNTED LUMINAIRES AS FAR SOUTH AS POSSIBLE WHILE MAINTAINING A MINIMUM DISTANCE OF 4' FROM THE (E) UNDERGROUND UTILITIES. SEE 5/E-7.2.
11. STUB UP RACEWAY FOR FUTURE PV SYSTEM IN ROOM ELEC 109, DIRECTLY UNDERNEATH AREA RESERVED FOR FUTURE PV SYSTEM DISCONNECT SWITCH. SEE E-M3.1 AND NOTE 9.

2

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[illegible]

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REVISIONS

2	05-20-21	ADDENDUM 2

DSA APP NO. 01-119278

ARCH PROJECT NO:	1869.00
DRAWN BY:	LN,TV,JW,OOM
DRAWING SCALE:	AS NOTED
PTN: 61721-78	FILE NO: 7-H4

CONSTRUCTION DOC.

MAY 5, 2021

SHEET TITLE

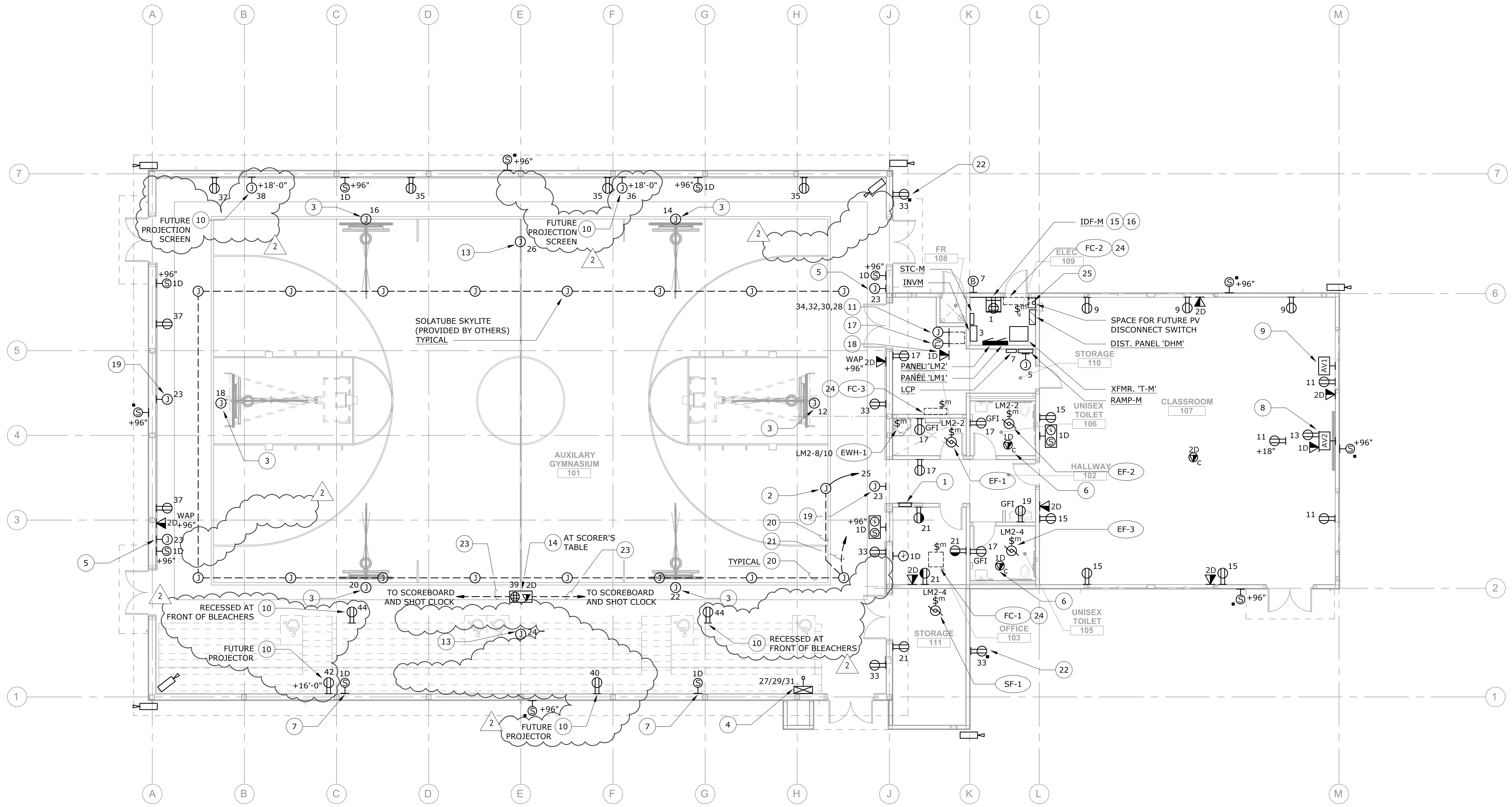
SITE PLAN - ELECTRICAL

SHEET NUMBER

ADDENDUM 02

E-1.1

FREEDOM HS AUX GYMNASIUM – 220066



FLOOR PLAN - POWER & SIGNAL

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

1 E-M3.1

NORTH

NUMBERED SHEET NOTES

1. PROVIDE FLUSH MOUNTED NEMA 1 STAINLESS STEEL CABINET WITH HINGED, LOCKABLE, LATCHED, FLUSH DOOR, TOP AT 6' A.F.F. MIN. 36"H x 24"W. ENCLOSURE TO INCLUDE CONTROLS FOR GYM LIGHTING, BACKSTOPS AND MOTORIZED SOLATUBES. MOUNT CONTROLS IN SEPARATE J-BOXES INSIDE ENCLOSURE WITH EMT CONDUIT BETWEEN (NO EXPOSED WIRING INSIDE CABINET). CLEARLY LABEL ALL CONTROLS FOR FUNCTION WITH PERMANENT ENGRAVED LAMINATED NAMEPLATES AFFIXED WITH STAINLESS STEEL SCREWS (NO P-TOUCH LABELS).
2. PROVIDE J-BOX FOR SOLATUBE 24VAC/96VA TRANSFORMER (TRANSFORMER PROVIDED BY OTHERS). COORDINATE EXACT LOCATION WITH SOLATUBE INSTALLER. CONNECT 120V CIRCUIT SHOWN COMPLETE TO TRANSFORMER.
3. PROVIDE AND INSTALL J-BOX FOR BACKSTOP TWIST-LOCK PLUG (BY OTHERS). SEE 4/E-7.2. INSTALL J-BOX AT STRUCTURE ABOVE, WITHIN 3' OF THE BACKSTOP WINCH MOTOR. COORDINATE EXACT LOCATION WITH VENDOR SHOP DRAWINGS PRIOR TO ROUGH-IN. LOCATE CONTROLS IN GYM CONTROLS CABINET. SEE NOTE 1.
4. MOTORIZED BLEACHER POWER CONNECTION. VERIFY EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH BLEACHER MANUFACTURER PRIOR TO ROUGH-IN. LOCATE WITHIN PROXIMITY TO MOTOR AND CONTROL BOX.
5. SCOREBOARD POWER CONNECTION. COORDINATE EXACT CONNECTION LOCATION WITH SCOREBOARD INSTALLER PRIOR TO ROUGH-IN.
6. PROVIDE AND INSTALL DATA PORT FLUSH IN CEILING FOR VAPE DETECTOR, PROVIDED BY OTHERS.
7. AT +60" ABOVE TOP BLEACHER LEVEL.
8. FLUSH WALL MOUNTED AV / POWER BOX ASSEMBLY (ABOVE SHORT-THROW PROJECTOR). HUBBELL netSELECT FPTV 2-GANG BOX #NSAV62M, OR EQUAL, WITH DUPLEX RECEPTACLE AND (1) DATA JACK. PROVIDE WITH STEEL COVER #NSAV6C. COORDINATE MOUNTING HEIGHT OF SHORT-THROW PROJECTOR WITH ARCHITECT.
9. FLUSH 2-GANG J-BOX FOR HDMI AND AUDIO FACEPLATE AND PASS-THRU CABLE ASSEMBLY. PROVIDE AND INSTALL 1.25" CONCEALED CONDUIT BETWEEN J-BOX AND RECESSED AV / POWER BOX ABOVE SHORT-THROW PROJECTOR. SEE NOTE 8.
10. PROVIDE AND INSTALL POWER FOR AV EQUIPMENT. SEE AV DRAWINGS FOR COORDINATION. 2
11. PROVIDE AND INSTALL (4) DEDICATED 120V, 20A CIRCUITS TO RACK. COORDINATE EXACT CONNECTION POINT ON RACK WITH AV INSTALLER. CIRCUIT TO BE (2)#12 + (1)#12G. IN 1" NON-METALLIC FLEX CONDUIT, FROM J-BOX TO AV RACK.
12. NOT USED. 2
13. MOTORIZED DIVIDER CURTAIN POWER CONNECTION. LOCATE J-BOX WITHIN 3' OF CURTAIN MOTOR. VERIFY EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
14. FLUSH IN-FLOOR POWER/DATA BOX WITH QUAD RECEPTACLE AND DATA JACKS AS INDICATED. COORDINATE FLUSH ROUGH-IN AND TRIM WITH SPORTS FLOOR INSTALLER PRIOR TO ROUGH-IN.
15. PROVIDE AND INSTALL WALL MOUNTED IDF. IDF SHALL BE CHATSWORTH CUBE-IT PLUS, #11900-748, OR EQUAL. PROVIDE WITH POWER STRIP (#12820-705) AND FAN/FILTER KIT (#40972-001) MOUNTED INSIDE CABINET. SEE E-5.2 AND 5/E-7.1 FOR MOUNTING.
16. PROVIDE DEDICATED QUAD RECEPTACLE AND J-BOX WITH #2AWG G. TO NEAREST BUILDING ELECTRODE. LOCATE EQUIPMENT WITHIN IDF CABINET.
17. PROVIDE (1) CCTV OUTLET IN A 1-GANG BOX AT AV RACK. EXTEND 1" CONDUIT UP FROM BOX FOR CCTV CABLING.

SECURITY SYSTEM SYMBOLS

- PROVIDE AND INSTALL A 2-GANG BOX WITH A 1-GANG RING AND 3/4" C. WITH STRING RUNNING BETWEEN EACH CAMERA LOCATION. HOMERUN 3/4" C. FROM LAST CAMERA LOCATION TO THE ELECTRICAL ROOM. STUB CONDUIT INTO ROOM AT CEILING HEIGHT.

NOTES:

1. COORDINATE ALL SECURITY DEVICES EXACT LOCATION AND MOUNTING HEIGHT WITH DISTRICT SECURITY CONTRACTOR PRIOR TO ROUGH-IN, TYP., U.O.N.

A/V SYSTEM NOTES

1. SEE THE AV CONSULTANT'S DRAWINGS AND SPECIFICATIONS FOR ALL AV EQUIPMENT, PANEL, AND DEVICE LOCATIONS AND REQUIREMENTS.
2. THE AV CONTRACTOR WILL PROVIDE AND INSTALL ALL AV EQUIPMENT, RACKS, DEVICES, PANELS AND AV SYSTEMS WIRING.
3. DIVISION 26 SHALL PROVIDE ALL BACKBOXES, CONDUITS AND RACEWAYS REQUIRED FOR THE AV SYSTEM IN COORDINATION WITH THE AV DRAWINGS - SEE AV DRAWINGS FOR ALL AV BACKBOX & CONDUIT REQUIREMENTS.
4. MAINTAIN ALL SEPARATIONS BETWEEN AV SYSTEM CONDUITS AND BETWEEN AV SYSTEM AND POWER CONDUITS.

GENERAL SHEET NOTES

1. ALL BRANCH CIRCUITS SHOWN SHALL HOMERUN TO BRANCH PANEL 'LM1', U.O.N.
2. PROVIDE WIRE GUARD PROTECTIVE COVERS OVER ALL EXPOSED ELECTRICAL / LIGHTING DEVICES IN THE GYMNASIUM SUBJECT TO BALL DAMAGE. COVERS TO BE PROVIDED FOR EXIT SIGNS, FIRE ALARM DEVICES, ANY EXPOSED SWITCHES, AV AND PRODUCTION LIGHTING, OR ANY OTHER DEVICES SUBJECT TO BALL DAMAGE.

2

NUMBERED SHEET NOTES

25. PROVIDE AND INSTALL 2" CONDUIT FROM ABOVE FUTURE PV SYSTEM DISCONNECT SWITCH LOCATION TO ROOF. EXTEND FROM APPROXIMATELY 36" BELOW ROOF TO STUB OUT HEIGHT ABOVE ROOF. SEE NOTE 2 ON SHEET E-3.2.

NUMBERED SHEET NOTES

18. PROVIDE (1) DATA DROP IN A 1-GANG BOX AT AV RACK. EXTEND 1" CONDUIT UP FROM BOX FOR DATA CABLING.
19. SHOT CLOCK POWER CONNECTION. COORDINATE EXACT CONNECTION LOCATION WITH SHOT CLOCK INSTALLER PRIOR TO ROUGH-IN.
20. PROVIDE AND INSTALL 3/4" CONDUIT FOR SOLATUBE CONTROL WIRING. COORDINATE SOLATUBE LOCATIONS WITH SOLATUBE INSTALLER. CONTROL WIRING BY OTHERS.
21. PROVIDE AND INSTALL 3/4" CONDUIT BETWEEN SOLATUBE HOUSING AND CONTROLS CABINET, FOR CONTROL WIRING. CONTROLS AND CONTROL WIRING BY OTHERS. SEE NOTE 1.
22. PROVIDE FLUSH WALL MOUNTED WEATHERPROOF COVER WITH LOCKING LATCH, PASS & SEYMOUR 4600 SERIES, OR EQUAL. REQUIRES SPECIAL ROUGH-IN.
23. PROVIDE AND INSTALL (2) 3/4" CONDUITS FOR SCOREBOARD AND SHOT CLOCK CONTROL WIRES, (1) CONDUIT TO EACH. SEE NOTES 5 AND 19.
24. OUTDOOR UNIT SUBFEEDS LINE VOLTAGE POWER TO INDOOR UNIT. PROVIDE, INSTALL AND CONNECT COMPLETE INTERCONNECTING CONDUCTORS PER MFR. REQUIREMENTS IN CONDUIT SIZED PER NEC REQUIREMENTS. SEE E-3.2 FOR OUTDOOR UNIT. VERIFY AND COORDINATE WITH DIVISION 23.

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[illegible]

FREEDOM HIGH SCHOOL

NEW AUXILIARY GYMNASIUM

1050 NEROLY RD, OAKLEY, CA 94561

LIBERTY UNION HIGH SCHOOL DISTRICT

REVISIONS

2	05-20-21	ADDENDUM 2

DSA APP NO. 01-119278

ARCH PROJECT NO:	1869.00
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PTN: 61721-78	FILE NO: 7-H4

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MAY 5, 2021

SHEET TITLE

FLOOR PLAN - POWER & SIGNAL

SHEET NUMBER

ADDENDUM 02

E-M3.1

FREEDOM HS AUX GYMNASIUM – 220066

DISTRIBUTION PANEL DHM

VOLTS:	277 / 480 V	**MAIN BRKR:**	400A/3P
PHASE:	3 PH	**FEEDER:**	SEE SINGLE LINE
WIRE:	4 W	**CONDUIT:**	SEE SINGLE LINE
BUSSING:	400A	**MOUNTED:**	SURFACE
POLES:		**AIC RATING:**	33k

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
\	M	7.09			-	1	2	-	2.88			M	\
AC-1	M		7.09		40/3	3	4	15/3		2.88		M	AC-3
/	M			7.09	-	5	6	-			2.88	M	/
\	M	7.09			-	7	8	-	17.02			M	\
AC-2	M		7.09		40/3	9	10	125/3		15.02		M	XFMR.T-M
/	M			7.09	-	11	12	-			13.79	M	/
S P A C E						13	14						S P A C E
S P A C E						15	16						S P A C E
S P A C E						17	18						S P A C E
		14.18	14.18	14.18					19.90	17.90	16.67		

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	97.01	100%	97.01
TYPE "L": LIGHTING / CONTINUOUS LOADS	0.00	125%	0.00
TYPE "R": RECEPTACLES (FIRST 10KVA)	0.00	100%	0.00
TYPE "R": RECEPTACLES (OVER 10KVA)	0.00	50%	0.00
TYPE "H": HVAC / MECHANICAL LOADS	0.00	100%	0.00
TOTALS:	97.01		97.01

PHASE A: 34.08 **KVA**
PHASE B: 32.08 **KVA**
PHASE C: 30.85 **KVA**

123.03 **MAX AMPS / PHASE**

PANEL LM1

VOLTS:	120 / 208	**MAINS:**	225A MCB
PHASE:	3 PH	**FEEDER:**	SEE SINGLE LINE
WIRE:	4 W	**CONDUIT:**	SEE SINGLE LINE
BUSSING:	225A	**MOUNTED:**	SURFACE
POLES:	54P	**AIC RATING:**	10K

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
ELEC 109 - IDF	M	1.00			20/1	1	2	20/1	1.50			L	107, 110, 111
ELEC 109 - INVM	M		1.00		20/1	3	4	20/1		0.81		L	EXTERIOR
STORAGE 110 - RAMP-M	M			0.48	20/1	5	6	20/1			1.46	L	AUXILARY GYMNASIUM 101
STORAGE 110 - LCP	M	0.50			20/1	7	8	20/1	1.46			L	AUXILARY GYMNASIUM 101
CLASSROOM 107	R		0.54		20/1	9	10	20/1		1.31		L	101, 102, 103, 104, 105
CLASSROOM 107	R			0.54	20/1	11	12	20/1			1.00	M	GYM 101 - MOTORIZED BACKBOARDS
CLASSROOM 107 - PROJECTOR	M	0.70			20/1	13	14	20/1	1.00			M	GYM 101 - MOTORIZED BACKBOARDS
CLASSROOM 107			0.72		20/1	15	16	20/1		1.00		M	GYM 101 - MOTORIZED BACKBOARDS
104, 105, 106, 110	R			0.72	20/1	17	18	20/1			1.00	M	GYM 101 - MOTORIZED BACKBOARDS
HALLWAY 102 - WATER FOUNTAIN	M	0.70			20/1	19	20	20/1	1.00			M	GYM 101 - MOTORIZED BACKBOARDS
OFFICE 103, STORAGE 111	R		0.72		20/1	21	22	20/1		1.00		M	GYM 101 - MOTORIZED BACKBOARDS
GYM 101 - SCOREBOARDS, SHOT CLOCKS	M			0.36	20/1	23	24	30/1			1.40	M	GYM 101 - MOTORIZED CURTAIN
GYM 101 - MOTORIZED SOLATUBES	M	0.10			20/1	25	26	30/1	1.40			M	GYM 101 - MOTORIZED CURTAIN
\	M		1.10		-	27	28	20/1		0.60		M	STORAGE 110 - AV RACK
MOTORIZED BLEACHERS	M			1.10	20/3	29	30	20/1			0.60	M	STORAGE 110 - AV RACK
/	M	1.10			-	31	32	20/1	0.60			M	STORAGE 110 - AV RACK
GYM 101, EXTERIOR	R		0.90		20/1	33	34	20/1		0.60		M	STORAGE 110 - AV RACK
GYM 101	R			0.54	20/1	35	36	20/1			1.00	M	GYM 101 - FUTURE PROJECTION SCREEN
GYM 101	R	0.54			20/1	37	38	20/1	1.00			M	GYM 101 - FUTURE PROJECTION SCREEN
GYM 101 - SCORER'S TABLE	R		0.36		20/1	39	40	20/1		1.50		M	GYM 101 - FUTURE PROJECTOR
SPARE					20/1	41	42	20/1			1.50	M	GYM 101 - FUTURE PROJECTOR
SPARE					20/1	43	44	20/1	1.00			M	GYM 101 - AV EQUIPMENT
SPARE					20/1	45	46	20/1					SPARE
SPARE					20/1	47	48	20/1					SPARE
SPARE					20/1	49	50	-	3.41			M	\
SPARE					20/1	51	52	100/3		2.85		M	PANEL LM2
SPARE					20/1	53	54	-			2.09	M	/
		4.64	5.34	3.74					12.37	9.67	10.05		

2

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	33.70	100%	33.70
TYPE "L": LIGHTING / CONTINUOUS LOADS	6.54	125%	8.18
TYPE "R": RECEPTACLES (FIRST 10KVA)	4.86	100%	4.86
TYPE "R": RECEPTACLES (OVER 10KVA)	0.00	50%	0.00
TYPE "H": HVAC / MECHANICAL LOADS	0.00	100%	0.00
TOTALS:	45.10		46.74

PHASE A: 17.02 **KVA**
PHASE B: 15.02 **KVA**
PHASE C: 13.79 **KVA**

141.81 **MAX AMPS / PHASE**

PANEL LM2

VOLTS:	120 / 208 V	**MAIN BRKR:**	MLO
PHASE:	3 PH	**FEEDER:**	SEE SINGLE LINE
WIRE:	4 W	**CONDUIT:**	SEE SINGLE LINE
BUSSING:	100A	**MOUNTED:**	SURFACE
POLES:	24P	**AIC RATING:**	10K

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
HP-1	H	0.75			15/2	1	2	20/1	0.02			H	EF-1, EF-2
/	H		0.75		-	3	4	20/1		0.02		H	SF-1, EF-3
HP-2	H			1.14	20/2	5	6	20/1			0.36	R	ROOF SERVICE OUTLETS
/	H	1.14			-	7	8	20/2	1.50			M	EWH-1
HP-3	H		0.58		15/2	9	10	-		1.50		M	/
/	H			0.58	-	11	12	20/1					SPARE
SPARE					20/1	13	14	20/1					SPARE
SPARE					20/1	15	16	20/1					SPARE
SPARE					20/1	17	18	20/1					SPARE
SPARE					20/1	19	20	20/1					SPARE
S P A C E						21	22						S P A C E
S P A C E						23	24						S P A C E
		1.89	1.33	1.73					1.52	1.52	0.36		

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	3.00	100%	3.00
TYPE "L": LIGHTING / CONTINUOUS LOADS	0.00	125%	0.00
TYPE "R": RECEPTACLES (FIRST 10KVA)	0.36	100%	0.36
TYPE "R": RECEPTACLES (OVER 10KVA)	0.00	50%	0.00
TYPE "H": HVAC / MECHANICAL LOADS	4.99	100%	4.99
TOTALS:	8.35		8.35

PHASE A: 3.41 **KVA**
PHASE B: 2.85 **KVA**
PHASE C: 2.09 **KVA**

28.44 **MAX AMPS / PHASE**

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LIBERTY UNION
HIGH SCHOOL
DISTRICT

REVISIONS

2	05-20-21	ADDENDUM 2

DSA APP NO. 01-119278

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MAY 5, 2021

SHEET TITLE

PANEL SCHEDULES

SHEET NUMBER
ADDENDUM 02
E-6.1

SYMBOL LEGEND

SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	ROUGH IN BOX	HEIGHT AFF UON ON FLOOR PLANS	NOTES
AV	LOWELL	LWBR-3528	EQUIPMENT RACK	12X12X6 NEMA-1 FLUSH	RACK ON FLOOR, ROUGH IN BOX @ 3'6" FLUSH	ROUGH IN BOX BEHIND RACK OFOI
FLX	FSR FSR TBD	FLEX-LT200 MUD-2G-625 TBD	SYSTEM TOUCHSCREEN CONTROL PANEL MUD RING PROTECTIVE COVER	4"SQ 2" DEEP	SWITCH HEIGHT	NO SUBSTITUTE FOR THE FSR MUD RING OFOI
A3	TBD	TBD	AUDIO I/O PANEL	3-GA 2" DEEP	OUTLET HEIGHT	OFOI
BT	TBD	TBD	BLUETOOTH INTERFACE MODULE	2-GA 2" DEEP	SWITCH HEIGHT	OFOI
512	FULCRUM ACOUSTICS FULCRUM ACOUSTICS TBD	CCX1295 YK-CX12 TBD	12" BLEACHERS LOUDSPEAKER YOKE BRACKET PASS-THRU PLATE	2-GA 2" DEEP	TRUSS	OFOI
515	FULCRUM ACOUSTICS FULCRUM ACOUSTICS TBD	CX1595 YK-CX15 TBD	15" FLOOR LOUDSPEAKER YOKE BRACKET PASS-THRU PLATE	2-GA 2" DEEP	TRUSS	OFOI
S	TBD	TBD	CEILING LOUDSPEAKER	1-GA W/ BLANK ABOVE CEILING	CEILING	OFOI
MIC	TBD TBD TBD	TBD TBD TBD	WIRELESS MIC ANTENNA PLATE WIRELESS MIC ANTENNA WIRE GUARD	4"SQ 2" DEEP & 1-GA RING	SEE RCP	OFOI
ALS	TBD TBD TBD	TBD TBD TBD	WIRELESS MIC ANTENNA PLATE WIRELESS MIC ANTENNA WIRE GUARD	4"SQ 2" DEEP & 1-GA RING	SEE RCP	OFOI

SHEET INDEX

ASSISTIVE LISTENING CODE REFERENCES

1. 219.2 Required Systems. In each assembly area where audible communication is integral to the use of the space, an assistive listening system shall be provided. EXCEPTION: Other than in courtrooms, assistive listening systems shall not be required where audio amplification is not provided.
2. 219.3 Receivers. Receivers complying with 706.2 shall be provided for assistive listening systems in each assembly area in accordance with Table 219.3. Twenty-five percent minimum of receivers provided, but no fewer than two, shall be hearing-aid compatible in accordance with 706.3. EXCEPTIONS: 1. Where a building contains more than one assembly area and the assembly areas required to provide assistive listening systems are under one management, the total number of required receivers shall be permitted to be calculated according to the total number of seats in the assembly areas in the building provided that all receivers are usable with all systems. 2. Where all seats in an assembly area are served by an induction loop assistive listening system, the minimum number of receivers required by Table 219.3 to be hearing-aid compatible shall not be required to be provided.
3. Advisory 706.1 General. Assistive listening systems are generally categorized by their mode of transmission. There are hard-wired systems and three types of wireless systems: induction loop, infrared, and FM radio transmission. Each has different advantages and disadvantages that can help determine which system is best for a given application. For example, an FM system may be better than an infrared system in some open-air assemblies since infrared signals are less effective in sunlight. On the other hand, an infrared system is typically a better choice than an FM system where confidential transmission is important because it will be contained within a given space.
4. 703.7.2.4 Assistive Listening Systems. Assistive listening systems shall be identified by the International Symbol of Access for Hearing Loss complying with Figure 703.7.2.4. (signage by architect).

ASSISTIVE LISTENING CALCULATIONS & REFERENCES

NTS

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LIBERTY UNION
HIGH SCHOOL DISTRICT

Revision	Description	Date
	ADDENDUM 02	5/20/21

Date 5/7/2021

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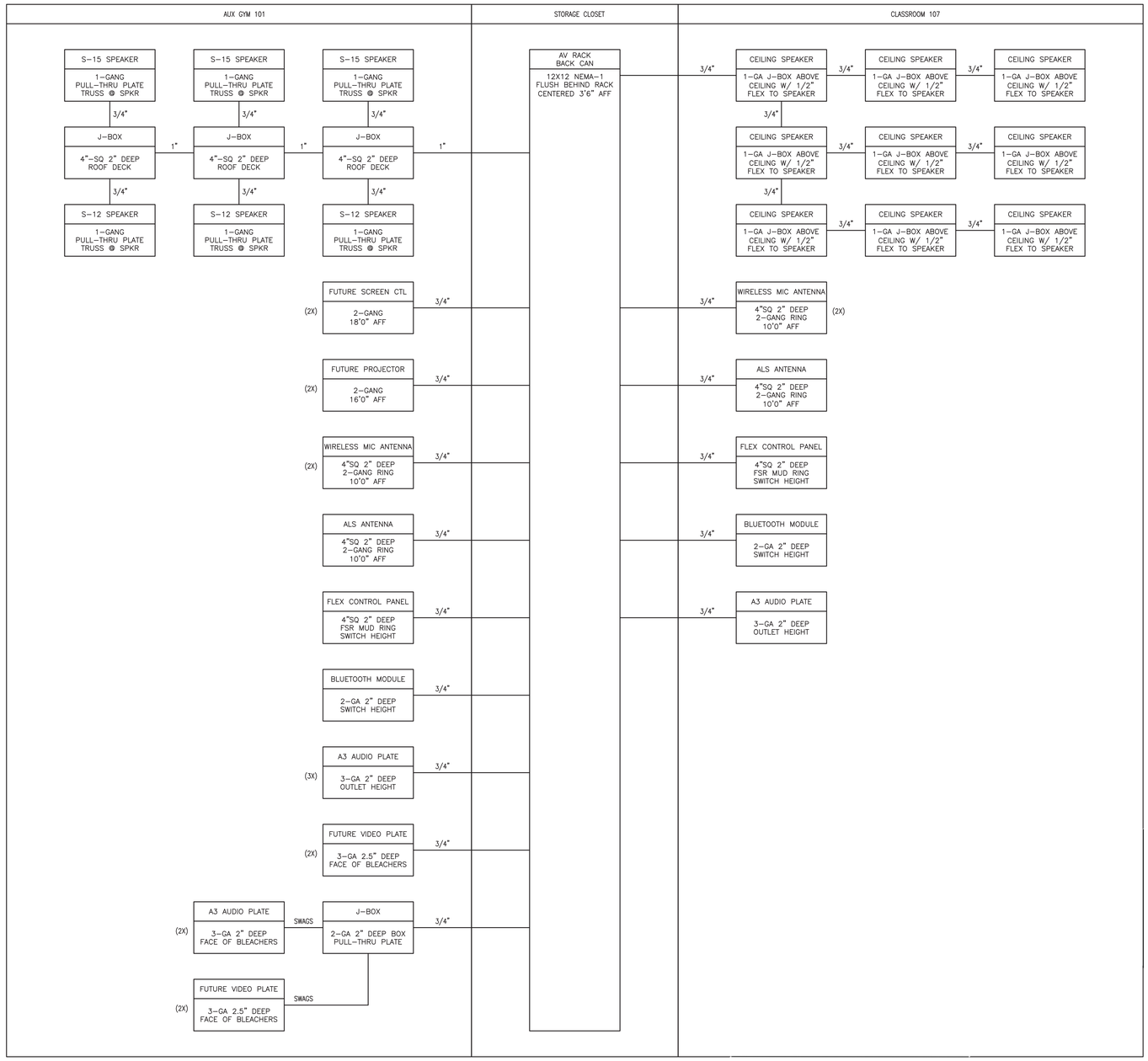
Sheet Title AUDIO-VISUAL
COVER PAGE

Sheet
ADD02 AV0



CONDUIT RISER DIAGRAM

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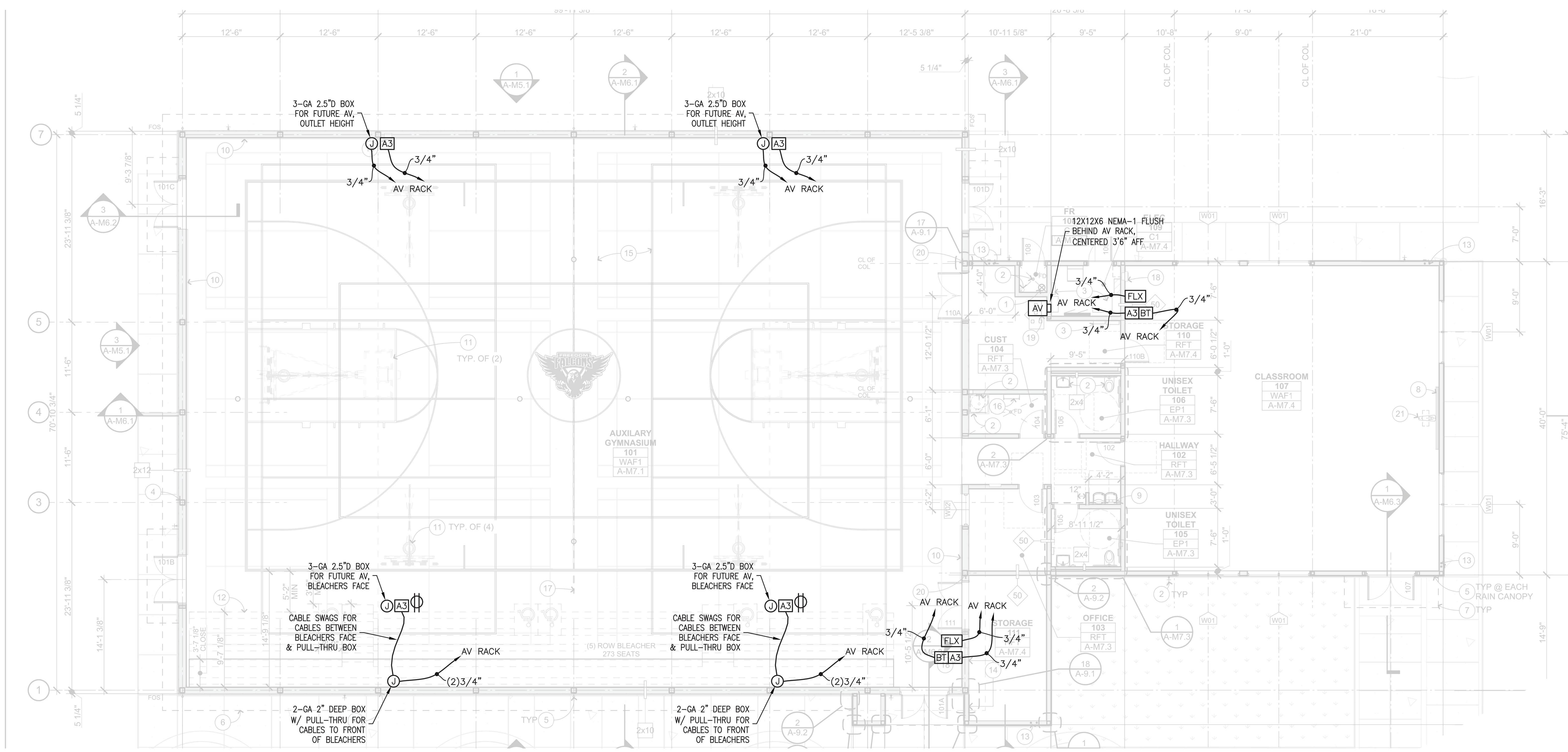
Sheet Title AUDIO-VISUAL CONDUIT RISER

Sheet ADD02 AV2.1



FLOOR PLAN

SCALE: 1/8" = 1'0"

COORDINATE WITH ARCHITECT AND OWNER FOR PLACEMENT OF ALL AV CABLE TERMINATION LOCATIONS

RADON
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Gardnerville, NV 89460

FREEDOM HIGH SCHOOL

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HIGH SCHOOL DISTRICT

Revision	Description	Date
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Date	5/7/2021
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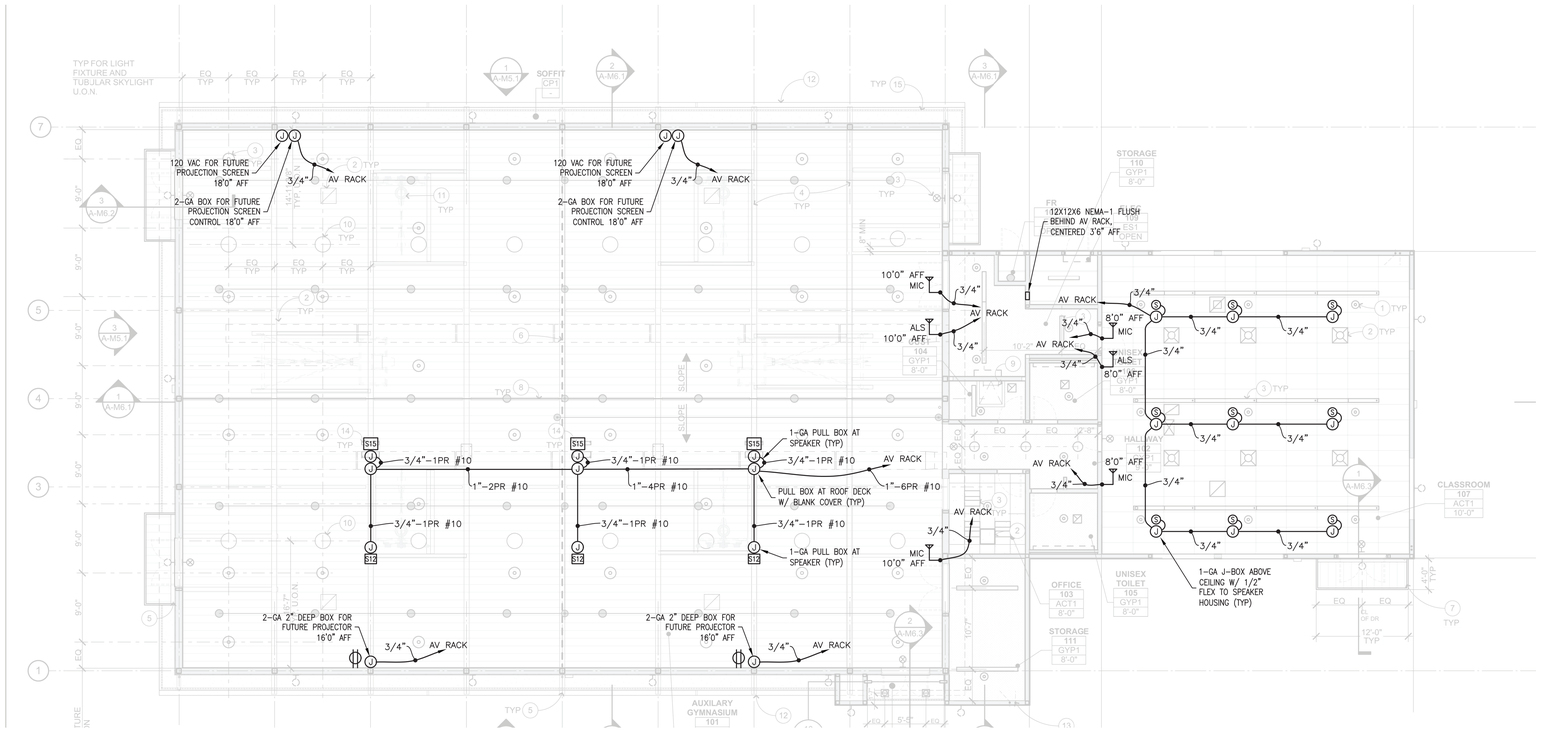
Sheet Title AUDIO-VISUAL FLOOR PLAN

Sheet ADD02 AV3.1



REFLECTED CEILING PLAN

SCALE: 1/8" = 1'0"

COORDINATE WITH ARCHITECT AND OWNER FOR PLACEMENT OF ALL AV CABLE TERMINATION LOCATIONS

REFLECTED CEILING PLAN

SCALE: 1/8" = 1'0"

COORDINATE WITH ARCHITECT AND OWNER FOR PLACEMENT OF ALL AV CABLE TERMINATION LOCATIONS

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Sheet ADD02 AV3.2