PERMIT/PRICING SET - NOT FOR CONSTRUCTION

INSTRUCTIONS TO BIDDERS

1. Bid Format: Pricing shall be provided in standard CSI format with a breakdown by trades including quantities and unit prices where applicable. Owner and Architect shall review proposed substitutions following receipt of Bids and shall accept or reject at Owner's sole discretion.

2. Contractor shall, at the Owner's request, provide full back-up for bids from subcontractors, including actual bid documents provided to Contractor. It is the responsibility of the General Contractor to distribute complete bids packages to all trades.

3. Substitutions and Qualifications: All pricing shall be based on the Contract Documents without substitution or alternation. However, the General Contractor may offer product or construction method substitutions wherever substantive savings may be available to the Owner unavailable or to have a long lead time, the General Contractor shall notify Architect immediately with a proposed alternative.

4. All proposed substitutions shall be reviewed by the Architect and he/she shall have the final authority to accept or reject substitutions as "equal" to the specified item or assembly. If the General Contractor does not identify and receive Architect/Tenant approval for substitutions, then the Architect retains the right to demand that the product or construction method originally specified be installed without additional cost to the Tenant.

5. Prior to submitting bid, the General Contractor and his appropriate subcontractors shall thoroughly examine the site and the Construction Documents to ensure his knowledge of all relevant field conditions and requirements affecting the Work. Any items which may conflict with the proposed work shall be brought to the Architects attention prior to the submission of the bid. The Contractor shall be familiar with all building rules and regulations. No claim for extra compensation will be allowed for General Contractor's or Subcontractors' failure to comply with this requirement.

6. General Contractor shall submit a complete list of all proposed subcontractors to the Architect, Mechanical/Electrical/Plumbing (MEP) Engineer, Tenant, and Owner. All subcontractors shall, at the discretion of the Architect, MEP Engineer, Tenant, or Owner submit qualifications for the type of work specified.

7. The General Contractor shall provide a proposed construction schedule showing the phasing of the work and the time required for each element of each phase with the bid. The General Contractor shall also provide a schedule for required shop drawings and submittals with the bid. The General Contractor shall notify the Architect of any long lead items that will affect the date of substantial completion and provide alternate sources prior to beginning work.

GENERAL NOTES

1. The Construction Documents are to include AIA document A201. "General Conditions of the Contract for Construction". NOH shall be designated as "The Owner" and "The Tenant", FOX Architects LLC shall be designated as "The Architect". The AIA document shall also include the Agreement, Performance and Payment Bonds, General Conditions, Supplementary Conditions, the Specifications, the Drawings Addendum, and Contract Modifications, Building Rules and Regulations & any other documents required by the Owner

2. The General Contractor shall be both licensed and bonded in the Commonwealth of Virginia and shall provide documents upon the Architect's request.

3. The Work shall be done in accordance with all rules and regulations of all applicable safety and building codes. The General Contractor is responsible for securing and paying for all permits required for the Work and for the scheduling of all required inspections during the course of the Work.

4. The General Contractor shall review the existing conditions & Base Building Construction Documents from the Landord and shall comply with all base building requirements and design criteria. The Contractor shall notify the Architect of all discrepancies, errors, inconsistencies or ambiguities discovered.

5. The General Contractor shall provide protection and be responsible for any existing finishes to remain and shall repair or replace any damaged areas as a result of the work. All existing finishes to remain shall be cleaned at the completion of construction.

6. All materials and systems shall be installed as per manufacturer's specifications and all construction shall be of industry standard or better. The Architect shall be ultimate judge of quality.

7. Only new items of recent manufacture, of standard quality, free from defects, will be permitted in the Work, unless otherwise noted. Rejected items shall be removed immediately from the Work and replaced with items of the quality specified. Failure to remove rejected materials and equipment shall not relieve the General Contractor from the responsibility for quality of items used nor from any other obligation imposed on him by the Contract.

8. Do not scale drawings. Stated & written dimensions govern. The General Contractor shall verify all dimensions in the field and shall be responsible for their accuracy. No extra charge or compensation shall be allowed because of differences between actual dimensions and those indicated on the drawings, unless they contribute to a change in the scope of the Work. Any difference which may be found shall be submitted to the Architect for decision prior to ordering, manufacturing, or proceeding with the Work. Horizontal dimensions indicated are to/from face of CMU, unless noted otherwise. Vertical dimensions are from top of floor slab except where noted to be shown finished floor (AFF). Dimensions are not adjustable without approval of Architect unless noted +/-.

9. In the event of conflict between data shown on drawings and data shown on the specification, the specification shall govern. Detail drawings take precedent over drawings of larger scope. Should the General Contractor at any time discover an error in a drawing or specification, or any discrepancy, or variation between dimensions on the drawings and measurements at site, or lack of dimensions or other information, the Contractor shall not proceed with the work affected until clarification has been made by the Architect. In case of an inconsistence between Drawings and Specifications or within either Document, not clarified by addendum, the more specific provision will take precedence over less specific; more specific will take precedence over less stringent; more expensive item will take precedence over less expensive. Better quality or greater quantity of Work shall be provided in accordance with Architect's interpretation. On Drawings, figures take precedence over scaled dimensions. Scaling of dimensions, if done, is done at the Contractor's own risk.

10. General Contractor shall verify that no conflicts exist in locations of any and all mechanical, telephone, electrical, plumbing and sprinkler equipment (to include all piping, duct work, sprinklers structural members and conduit) and that clearances for installation and maintenance of above equipment is provided. Elements in conflict shall be determined and reviewed with the Architect prior to work proceeding. Contractor to coordinate new work with existing conditions.

11. The General Contractor shall provide shop drawings for the Architect's review and approval for the following: All shop fabricated millwork, carpet layout, flooring, light fixtures, doors, misc. steel, metal fabrication, glass/glazing, sprinkler layouts, hardware. Shop drawings shall be submitted in the form of 2 sets of prints and one set of reproducables. Shop drawings shall not be reproductions of Contract Documents. Material Submittals (3 samples) shall be provided for wood, fasteners, acrylic, carpet, tile, base, paint, laminate and any other materials indicated in the shop drawing.

12. The General Contractor shall provide the Architect with manufacturer's cut sheets and specifications for all equipment including but not limited to: light fixtures, plumbing equipment, electrical equipment, fans, supplementary heating and cooling elements, all hardware and security equipment.

13. The General Contractor shall not proceed with work for which he expects additional compensation beyond the contract amount with out written authorization from the Architect and Owner. Failure to obtain such authorization shall invalidate a claim for extra compensation. The Contractor shall not proceed with work which, if completed in strict conformance with the Construction Documents, will result in additional work beyond the scope of the Contract without written authorization from the Architect and Owner. Any field conditions that significantly vary from the Contract Documents or will result in additional work, shall be brought to the attention of the Architect prior to proceeding with work.

14. Contractor shall include all x-ray and core drill costs. All core drilling of the slab shall be approved by the Landlord Structural Engineer prior to proceeding with the Work. Contractor shall submit proposed locations to Architect and Structural Engineer for review prior to proceeding with the work.

15. Patch, repair and install all fireproofing as required by code. Fireproof any new penetrations required by the work.

16. General Contractor to coordinate and review size and location of all slab penetrations. All required penetrations shall be made in accordance with the Owner's standard approval procedures and methods. All penetrations shall be properly sealed according to the Architect and the Owner's requirements and applicable codes.

17. The General Contractor shall continuously check architectural and structural clearances for accessibility of equipment and mechanical and electrical systems. No allowances of any kind will be made for the General Contractor's negligence to foresee means of installing equipment into position.

18. The finished work shall be firm, well-anchored, in true alignment, plumb, level, with smooth, clean, uniform, appearance without waves, distortions, holes, marks cracks, stains, or discoloration. Joining shall be done fitting, neat and well scribed. The finished work shall have no exposed unsightly anchors or fasteners and shall not present hazardous, unsafe corners. All work shall have the provision for expansion, contraction and shrinkage as necessary to prevent cracks, buckling, and warping due to temperature and humidity conditions.

19. Attachments, connections or fasteners of any nature are to properly and permanently be secured in conformance with best practice and the General Contractor is responsible for improving them accordingly. The drawings highlight special conditions only and by no means illustrate every connection. The Contractor is responsible for improving connection accordingly.

20. General Contractor shall waive "Common Practice" and "Common Usage" as construction criteria wherever details and Contract Documents of governing codes, ordinances, etc. require quantity or better quality than common practice or common usage would require.

21. The General Contractor shall submit shop drawings and submittals order and schedule delivery of materials in ample time to avoid delays in construction. If an item is found to be unavailable or to have a long lead time, the General Contractor shall notify Architect immediately with a proposed alternative.

22. The General Contractor shall notify the Owner, the Landlord, and the Architect in writing of any deficiencies in base building core work prior to the commencement of the work. Any unreported deficiencies will become the responsibility of the General Contractor to correct.

23. The General Contractor shall exercise extreme care and precaution during the construction of the Work, and schedule work, to minimize disturbances to adjacent spaces and /or structures and their occupants, property, public thoroughfares, etc. The General Contractor shall take precautions and be responsible for the safety of all building occupants from construction procedures. The General Contractor shall be responsible for any overtime costs incurred thereby.

24. All debris shall be removed from the site on a daily basis when possible. Upon completion of the work, remove all debris from the building created by the work provided under this Contract and leave all areas clean. Trash is not permitted to be burned on site.

25. All abandoned miscellaneous nails, hangers, staples, wires and conduits shall be removed from the walls and areas of exposed ceilings. Remove all abandoned pipe sleeves in floor slabs. Patch existing slab as req. to maintain UL fire rating of floor slab where pipes and conduits have been removed.

26. Slab penetrations less than 2" around new and existing piping, conduit, ductwork, etc. shall be filled with acoustic foam and/or sealant to ensure acoustical separation between floor slabs. Slab penetrations greater than 2" around new and existing piping, conduit, ductwork, etc. shall be filled with concrete. All piping, conduit, ductwork, etc. shall be wrapped with expansion material prior to filling with concrete. Expansion material shall be approved by the MEP Engineer.

27. Notify Architect of any access panels which may be required before proceeding with the work. No access panels shall be provided in GWB ceilings. Contractor shall be responsible for coordinating all trades. Required access panels shall be included in the Contractor's scope.

28. Contractor shall provide the Team with a construction schedule showing the proposed phasing. Any long lead items that will effect the Substantial Completion date shall be brought to the Architect's attention immediately.

29. Provide protection for existing finishes to remain, including restrooms, lobbies and corridors and repair damages as a result of construction. Document any existing conditions or damages prior to the start of construction

DEMOLITION NOTES

1. The General Contractor shall visually inspect all existing conditions and shall coordinate any outstanding demo issues with the Architect prior to beginning work. All base building frames, window sills, and core partitions to be free from mastic or other building residue and ready to receive finish.

2. Consult Engineering notes for extent of existing building systems to be removed or to be relocated. Removal work is intended to include all associated built-in items such as electrical/data outlets, switches, conduits, controls, piping, mounting blocks, etc. Refer to MEP drawings for procedures concerning these trades in demolition areas.

3. G.C. is responsible for the replacement of any base building finishes that are damaged as a result of demolition. G.C. is to include in the pricing a contingency for all base building repairs to the areas of construction as described by the Owner.

4. G.C. shall remove all existing conduit and associated wiring not used U.O.N. back to panel. All existing data wiring to be removed. All mechanical devices to be evaluated and a report submitted prior to the start of demolition noting condition of equipment.

5. G.C. shall remove any incomplete or partially constructed or demolished walls & ceilings back to primary building structure. Remove existing walls and doors within the areas of construction in compliance with the Drawings. Remove any remaining carpet and vinyl composition tile within the areas of construction as described by the Owner.

6. Save existing doors and frames for reuse. Existing doors, frames, and hardware shall be carefully removed and stored prior to installation. Refinished doors and frames shall be cleaned, filled, smoothed and refinished as needed to match finish of new doors and frames.

7. Provide dumpster for debris removal. Coordinate location with building owner. Remove demolition materials each day and vacuum public/common areas before leaving Site.

8. The Contractor shall salvage all existing light fixtures to be reused per the Reflected Ceiling Plan. Any surplus fixtures shall be returned to Building Owner. All existing fixtures and mechanical devices to be cleaned and repaired or replaced to provide a fully functioning space. Lights – replace cracked lenses, defective ballasts, re-lamp. Mechanical – replace bent/damaged grilles, defective exhaust fans. Refer to MEP drawings for additional information. See partitions on Drawings, manufacturer's name and product number, finish, and other similar information describing hardware to be provided. Items of hardware not definitely specified, but needed for satisfactory installation of hardware shall be provided. Such items shall be of type and quality suitable for service needed and comparable to adjacent hardware.

9. There is no presence of asbestos and lead based paint in the existing building to the best of the Owner's and Architect's knowledge. If a material is found which may be suspected of containing hazardous material, work shall stop and the Contractor shall notify the Architect and Building Owner immediately. If it is determined that the materials are hazardous, the material shall be fully abated according to applicable laws.

DOORS, FRAMES, AND HARDWARE NOTES

1. Refer to Door and Hardware Schedule for extent, type and additional notes. Acceptable wood door manufacturers to be Weyerhaeuser, Eggers, Mohawk or Architect approved equal. General Contractor shall provide a hardware schedule and catalogue cuts for all finish hardware for approval by the Architect indicating location of hardware set, cross-referenced to indications on Drawings, manufacturer's name and product number, finish, and other similar information describing hardware to be provided. Items of hardware not definitely specified, but needed for satisfactory installation of hardware shall be provided. Such items shall be of type and quality suitable for service needed and comparable to adjacent hardware.

2. All doors shall be set 6" off adjacent perpendicular wall, U.O.N. Doors shall not be undercut, U.U.N. All levers, pulls, and locks are to be provided by a single manufacturer. All hinges and other miscellaneous exposed hardware shall be in similar and compatible finishes as indicated on Hardware Schedule.

3. General Contractor shall coordinate keying system with Owner (Building Management), Landlord, and Architect. General Contractor shall coordinate security system with system vendor and scheduled hardware and the submittal of all security hardware specifications and cut sheets to the proper authorities for review and approval during building permit process.

4. Provide hardware, door pulls, hinges, closers, electromagnetic devices, etc. needed to provide a full and complete installation. Provide silencers at metal frame doors. Provide floor mounted door stops unless existing conditions require wall mounted. Ensure adequate blocking for wall mounted stops. Submit to Architect for approval.

5. Provide 4 1/2 x 4 1/2, full mortise, template, 5-knuckle, heavy duty, button tip hinges with non-rising loose pins and anti-friction, ball type bearing. Doors with locksets shall be furnished with non-removable pins hinges. Provide 1 1/2 pair hinges for doors up to 90" in height. Add 1 hinge for every additional 30" in height.

6. Heavy duty cylindrical locksets and latchsets shall conform to ANSI A156.2, Series 4000, Grade 1. Functions as listed in schedule. Heavy duty mortise locksets and latchsets, levers shall conform to ANSI A156.13 Series, 1000, Grade 1. Overhead Closers shall be surface mounted or concealed overhead as noted in the hardware schedule and shall be heavy duty, fully hydraulic, rack and pinion action and sized to be in compliance with requirements for accessibility for handicapped and recommendations of manufacturer. Furnish complete with all necessary hardware. Furnish 2 keys per lock with a maximum of 8 keys per keyed alike set. Before final completion, adjust hardware so that doors operate in perfect order. Test and adjust hardware for quiet, smooth operation and adjust closers for proper operation. At final completion, properly tag and identify keys and deliver to Owner.

REFLECTED CEILING PLAN

1. Borders at lay-in acoustical ceiling panels shall be cut to match factory edge profile. No exposed fasteners shall be permitted including pop rivets and tappets.

2. Height of ceilings shall be measured from top of slab to finish face of GWB or face of ceiling grid as indicated on the RCP. U.O.N

3. All light fixtures are to be installed according to the Architectural Reflected Ceiling Plan. Architect to review ceiling layout including bulkheads and grid prior to installation.

4. Light fixture types, quantities and locations are only noted on Architectural Reflected Ceiling Plans. Specifications, switching, exit lights, emergency lighting, life safety equipment, and circuiting are noted on Engineering documents. The General Contractor is responsible for all architectural and engineering drawings

5. Dimensioned light fixtures are from finished face of partitions to centerline of fixture and from centerline of fixture to centerline of fixture. All fixtures shall be installed in center of ceiling tile unless noted otherwise. Any discrepancies with light fixtures, switches, thermostats, or diffusers as to location between architectural and engineering drawings or between the drawings and existing field conditions shall be clarified with the Architect before proceeding with installation.

GLASS & GLASS DOOR NOTES

1. Refer to Door and Hardware Schedule for extent, type and further notes. General Contractor shall provide a hardware schedule and catalogue cuts for all finish hardware for approval by the Architect.

2. General Contractor shall coordinate keying system with Owner (Building Management), Landlord, and Architect. General Contractor shall coordinate security system with system vendor and scheduled hardware as well as the submittal of all security hardware specifications and cut sheets to the proper authorities for review and approval during building permit and inspection process.

3. Provide hardware, door pulls, hinges, closers, electromagnetic devices, etc. needed to provide a full and complete installation. Submit manufacturer's literature describing glass system products to be provided. Submit shop drawings for systems showing scale elevations and sections. Submit 2 samples of each finished metal and glass material. Size as appropriate to material. Provide certification by Safety Glazing Certification Council that safety glazing materials meet specified requirements. Provide glazing at Hazardous Locations as determined by CPSC 16 CFR 1201. Glazing shall be in compliance with Consumer Product Safety Act and shall have been tested and labeled. Safety glazing shall conform to requirements of ANSI Z97.1. Glass to be tempered, ASTM C1048, Classifications: ASTM C1036; Type 1, class 1 where required. See Drawings for thickness and finish.

4. Rail Fittings to be as follows: Top Rail, 1 3/4" x 4" nominal; Bottom Rail, 1 3/4" x 4" nominal. Finish to be Stainless Steel #4, satin brushed or BHMA #US (US28). Acceptable Products include Blumcraft – 640C, Brite Vue Glass – Frameless Door Entrance System, Guardian/Falconer – Standard 4" Door Rail; Type P door or Virginia Glass – VGS 60–50; Type P door.

5. Patch Fittings to be as follows: Top Corner Patch, 2" x 6 1/2" nominal; Bottom Corner Patch, 2" x 6 1/2" nominal. Finish to be Stainless Steel #4, satin brushed or Match BHMA #US (US28). Acceptable Products include Brite Vue Glass – Total Vision Concept Entrance System, Guardian/Falconer – Designer Door Series; Type A or Virginia Glass – VGS 52–01/02; Type AGA door. Patch fittings can not be used with overhead closers.

7. Glazing Channels as indicated on drawings but not less than Top Channel: 1" x 2" nominal and Bottom Channel: 1" x 1" nominal. Finish to be Stainless Steel #4, satin brushed or BHMA #US (US28).

8. Concealed overhead closers shall be heavy duty, fully hydraulic, full rack and pinion action with adjustable spring power. Closers shall be sized in compliance with requirements for accessibility for handicapped and recommendations of manufacturer. Acceptable Products include Dorma – RTSBS, LCN – 6030 Series w/DP 150 pivot or Norton – 4900 Series w/490 pivot.

9. Provide floor closers with separate valves to control closing, latching, and back check, complete with cement case, top pivot, bottom arm, and finish plate. Closers shall be sized in compliance with requirements for accessibility for handicapped and recommendations of manufacturer. Acceptable Products include Dorma – BTS 75, Dor-O-Matic – 3300 or Rixon – 05023–5025.

10. Push/Pull Bars shall be Horizontal push bar/offset pull bar combination. Size to be 1" diameter, projection 2 1/2" nominal and offset 2 1/4" nominal. Pull Bar to be 12" center to center and Push Bar to be 32" center to center. Finish to be BHMA #630 (US32D) or BHMA #625 (US26). Acceptable products include Builders Brass Works – 2960 and Hiawatha – 6588 x 1088 LBP.

MECHANICAL NOTES

See mechanical drawings by Engineers for further notes, details and specifications. Coordinate all requirements with architectural drawings

1. All mechanical work is to be carried out per the Mechanical Drawings and Mechanical Specifications. All construction shall be carried out in accordance with all applicable codes and in keeping with good engineering practices.

2. The General Contractor shall provide and install all necessary equipment, sheet metal ductwork, hangers, flexible ductwork, thermostat controls, fire dampers, piping, access panels and the like, required to meet all applicable mechanical codes, and to provide the Owner with fully operational and balanced mechanical system.

3. All mechanical equipment shall be new where noted and shall meet all UL standards where applicable.

4. The installation of all mechanical equipment and assemblies shall be of industry standard or better.

5. The General Contractor shall coordinate the tie-in to the existing building systems with the landlord.

6. Exact locations of the thermostats, indicated on engineering drawings, shall be identified by General Contractor and verified in field by the Architect and Owner prior to installation.

7. The General Contractor shall perform all testing and balancing of the system. Balancing shall not begin until the system is completed and in full working order. The General Contractor shall maintain access to ductwork at locations requested by the Contractor to facilitate balancing.

POWER, TELEPHONE & DATA NOTES

See electrical drawings by Engineers & power, telephone, data by Fox Architects for further notes, details and specifications.

1. All electrical work is to be carried out as per the Electrical Drawings and Electrical Specifications. All construction shall be carried out in accordance with all applicable codes and in keeping with good engineering practices.

2. It is the responsibility of the General Contractor to fully review the existing electrical service equipment, panel boards, and the like, as well as the relevant construction documents. No claim for extra compensation will be allowed due to the General Contractor's failure to fulfill this requirement. NOTE: General Contractor shall coordinate Owner's vendors for telephone, AV, security, and data systems proposed.

3. The General Contractor shall provide and install all wire, cable, wiring devices, panel boards, fixtures, conduits, outlets, outlets, switches, and the like required to provide the Owner with a complete and fully operational installation as described in the Construction Documents, unless instructed otherwise. All material shall be new, first-class and in compliance with the requirements of the National Board of Fire Underwriters Laboratory. The Work shall be installed in accordance with the latest edition, National Electrical Code and the local electrical code, which are hereby made part of the Construction Documents. All electrical work where exposed to view shall be installed such that the workmanship is above industry standards. Wiring shall be secured to allthread hangers at all track locations.

4. The General Contractor shall not cause a shutdown of any electrical, lighting, alarm security, data or communication system in any occupied area of the building during normal business hours without obtaining permission 72 hours prior, from the Owner.

5. All multiple switch locations are to be ganged and installed with a single face plate. Cover plates shall not be cut and butted together. Devices shall be white with stainless steel coverplates.

6. The Electrical Contractor is not responsible for the installation of telephone lines, data lines or equipment, but shall install right conduit in slab to slab partitions, flexible conduit in half-height partitions and pull- strings at all partitions. It is the responsibility of the General Contractor to coordinated the installation of the telephone and cabling system and associated equipment such as cable trays and "J" hooks, with that of the electrical system. If the General Contractor finds that the telephone or cabling vendor is unable to provide their services in a timely manner, the General Contractor shall inform the Architect/Tenant and the Owner immediately.

7. The General Contractor is to engineer, provide and install any code required smoke and/or fire alarm systems and provide coordination with any security system selected by the Owner and Landlord.

8. It is the responsibility of the General Contractor to coordinate the work of the Electrical Contractor to insure that services and controls are provided for all fans supplementary heating and cooling apparatus, security alarms, smoke and fire alarms, etc.

9. Receptacles and telephone outlets shall not be mounted back to back. All outlets shown grouped together shall not be more than 5" (centerline to centerline) apart and shall be spaced equally. Should a conflict occur between the architectural drawings and any requirement for proper functioning, it is the responsibility of the General Contractor to bring the conflict to the attention of the Architect, prior to proceeding with the work.

10. All outlet boxes (electrical, data, and telephone) on acoustic partitions shall be offset, one per stud space maximum on one side of partition. Provide acoustical gaskets/sealant/foam at all outlet boxes, (electrical data and telephone) at acoustical partitions. See Elec., Tele., and Data plans for further information.

11. The surface area of outlet boxes shall not exceed 16 square inches in fire rated partitions. The aggregate surface area of outlet boxes shall not exceed 100 square feet at fire rated partitions. Boxes located on opposite sides of partitions shall be separated by a minimum horizontal distance of 24 inches at fire rated partitions

13. Provide and install smoke detectors as required per code. Submit type and location to Architect for approval. Refer to engineering documents for types, specifications and circuiting of all devices.

15. Any discrepancies or conflicts between architectural power, telephone & data plans and engineering documents, architectural elevations, millwork and/or filed conditions shall be clarified with the Architect before beginning of work. The General Contractor shall be responsible for providing power and circuiting to fixtures and devices shown on the Architectural drawings.

16. All receptacles, switches, telephone and data jacks shall be white with white cover plates. Device color may vary, see electrical drawings.

17. Receptacles within 6'-0" of "wet" areas shall be Ground Fault Interruption (GFI) type.

18. The General Contractor shall be responsible for the installation of system furniture whips and powering of furniture. The G.C. shall indicate to the furniture supplier when the whips are required on site. The Contractor is responsible for cutting to length all whips and providing all necessary couplings, nipples, etc. for a complete installation.

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

ARCHITE

ARCHITECTS
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:

TREE OF LIFE - PUBLIC CHARTER SCHOOL

2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:

GENERAL NOTES AND SPECIFICATIONS

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005

STAMP:

DISTRICT OF COLUMBIA
ROBERT A. FOX
No. 5607
REGISTERED ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION

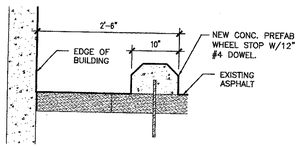
Abdullahi Barrow
Structural Engr. Descr.
Date

DRAWN BY:	FOX
DATE:	02 FEBRUARY
FOX PROJECT NO.:	04152.00

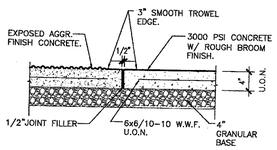
DRAWING NUMBER

A0.1

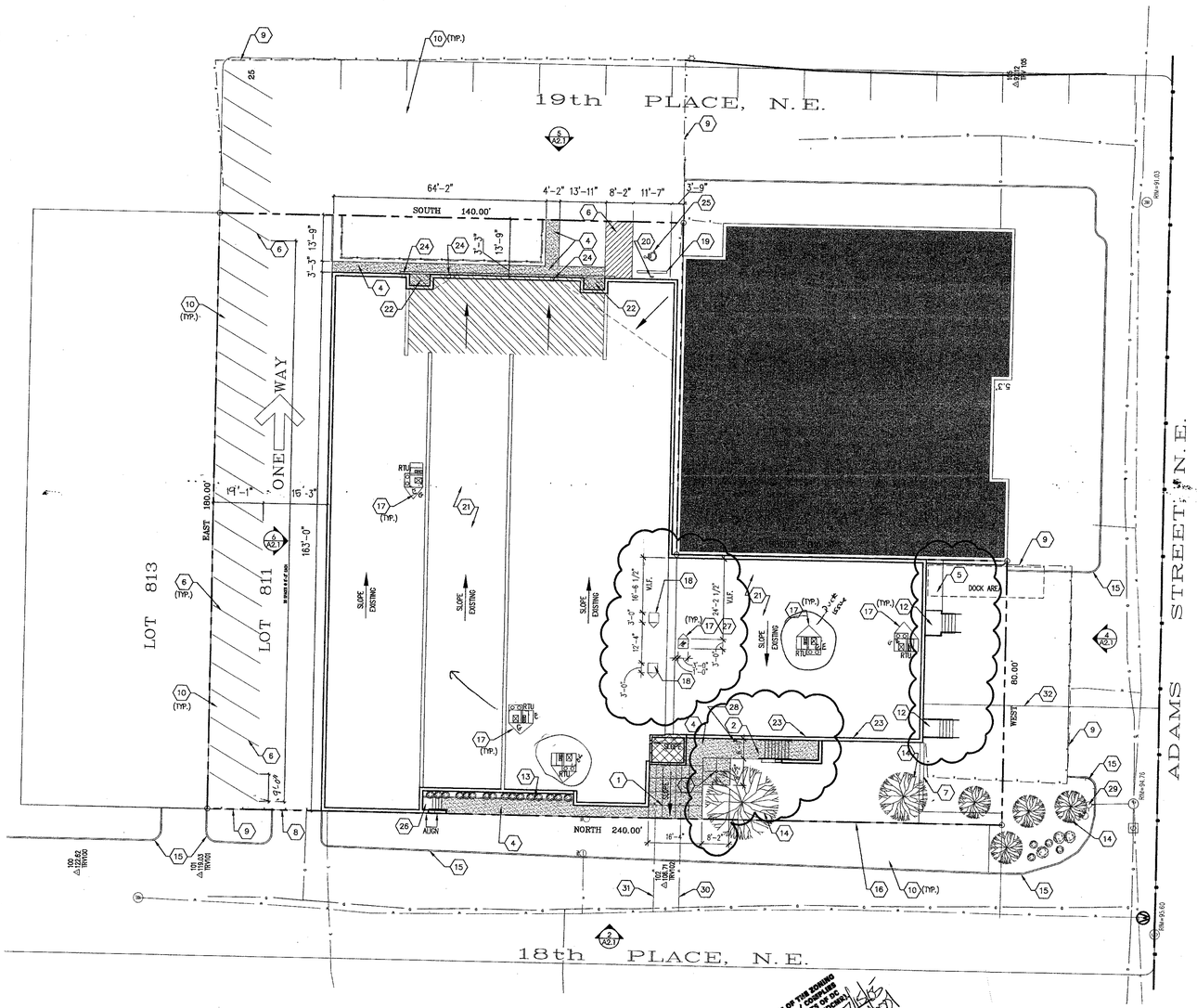
CONSTRUCTION DOCUMENTS



4 WHEET STOP AND CURB DETAIL
1" = 1'-0"



3 CONCRETE DETAIL
1" = 1'-0"



1 SITE PLAN/ROOF PLAN
SCALE: 1/16" = 1'-0"

DCRA / OFFICE OF THE ZONING ADMINISTRATOR / COMPLIES WITH REQUIREMENTS OF DC ZONING REGULATIONS (DCMR).
Reviewed by
Pauline Christo, 4/6/05
(50 parking spaces)

GENERAL NOTES

1). PATCH AND REPAIR ALL EXISTING ROOF OPENING, AND PREPARE ROOF SURFACE TO RECEIVE NEW MEMBRANE

SITE PLAN/ROOF PLAN KEYED NOTES

1. NEW CONCRETE SLAB W/ SCORE LINES AT 5'-0" O.C.E.W., SEE DETAIL 3/A0.3
2. NEW CONCRETE STAIR, SEE DETAIL 2/A8.1
3. NEW 35'-0" FLAG POLE, SEE DETAIL 10/A4.2
4. NEW CONCRETE WALK, SEE CIVIL & 3/A0.3
5. NEW CONCRETE LOADING DOCK, SEE DETAIL
6. NEW PAINT STRIPING OVER EXISTING ASPHALT
7. EXISTING MASONRY RETAINING WALL TO REMAIN
8. EXISTING CONCRETE CURB CUT TO REMAIN
9. EXISTING FENCE TO REMAIN
10. PATCH AND REPAIR EXISTING ASPHALT AS REQUIRED
11. NEW CONCRETE H.C. RAMP, SEE DETAIL 1/A8.1
12. NEW CONCRETE LANDING AND STAIR, SEE DETAIL 1/A8.1
13. EXISTING PLANTER TO REMAIN
14. NEW LANDSCAPING
15. EXISTING CURB LINE TO REMAIN
16. NEW CONCRETE CURB LINE
17. ROOF CRICKET ON HIGH SIDE, TYP.
18. NEW 36"X36" SKYLIGHTS, SEE DETAIL 9/A4.2
19. NEW CONCRETE CURB STOP. SEE 4/A0.3
20. NEW HANDICAPP SIGN, SEE DETAIL 2/A0.3
21. NEW FIRESTONE 60MIL. REINFORCED EPDM RUBBERGARD MAX ROOF MEMBRANE OVER EXISTING TAPERED INSULATION.
22. LOW ROOF BELOW, SEE DETAIL 10/A4.1
23. EXISTING ROOF SCUPPER. 2/A4.3
24. NEW ROOF SCUPPER.
25. NEW VAN ACCESSIBLE H.C. STALL
26. EXISTING STAIR TO REMAIN.
27. NEW 36"X48" SKYLIGHTS, SEE DETAIL 9/A4.2
28. FIRE DEPARTMENT CONNECTION
29. EXISTING FIRE HYDRANT
30. NEW DOMESTIC WATER SERVICE
31. NEW FIRE SERVICE
32. NEW SANITARY SERVICE

SITE PLAN/ROOF PLAN LEGEND

BLDG. ADDITION AREA = 677 SQ/FT
BLDG. INFILL AREA = 1334 SQ/FT
ADJACENT SITE BLDG. = 9,746 SQ/FT
NEW CONCRETE SIDEWALK
HANDICAP PARKING SPACE
PURPOSED VEGETATION
NEW SKYLIGHT - SEE A1.3

PARKING ANALYSIS

ZONING REQUIREMENTS FOR ELEMENTARY AND JUNIOR HIGH SCHOOLS:

2 FOR EACH 3 TEACHERS AND OTHER EMPLOYEES

# OF EMPLOYEES:	50
PARKING SPACES REQUIRED:	34
ON SITE PARKING SPACES PROVIDED:	20
PREVIOUS CERTIFICATE OF OCCUPANCY CREDIT:	31
TOTAL PARKING SPACES PROVIDED:	51

CONSTRUCTION DOCUMENTS

FOX ARCHITECTS

8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703 821 7990 Fax 703 821 2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
SITE PLAN

ISSUED:

PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CD SET	28 FEBRUARY 2005
CD SET	18 APRIL 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 ARCHITECT

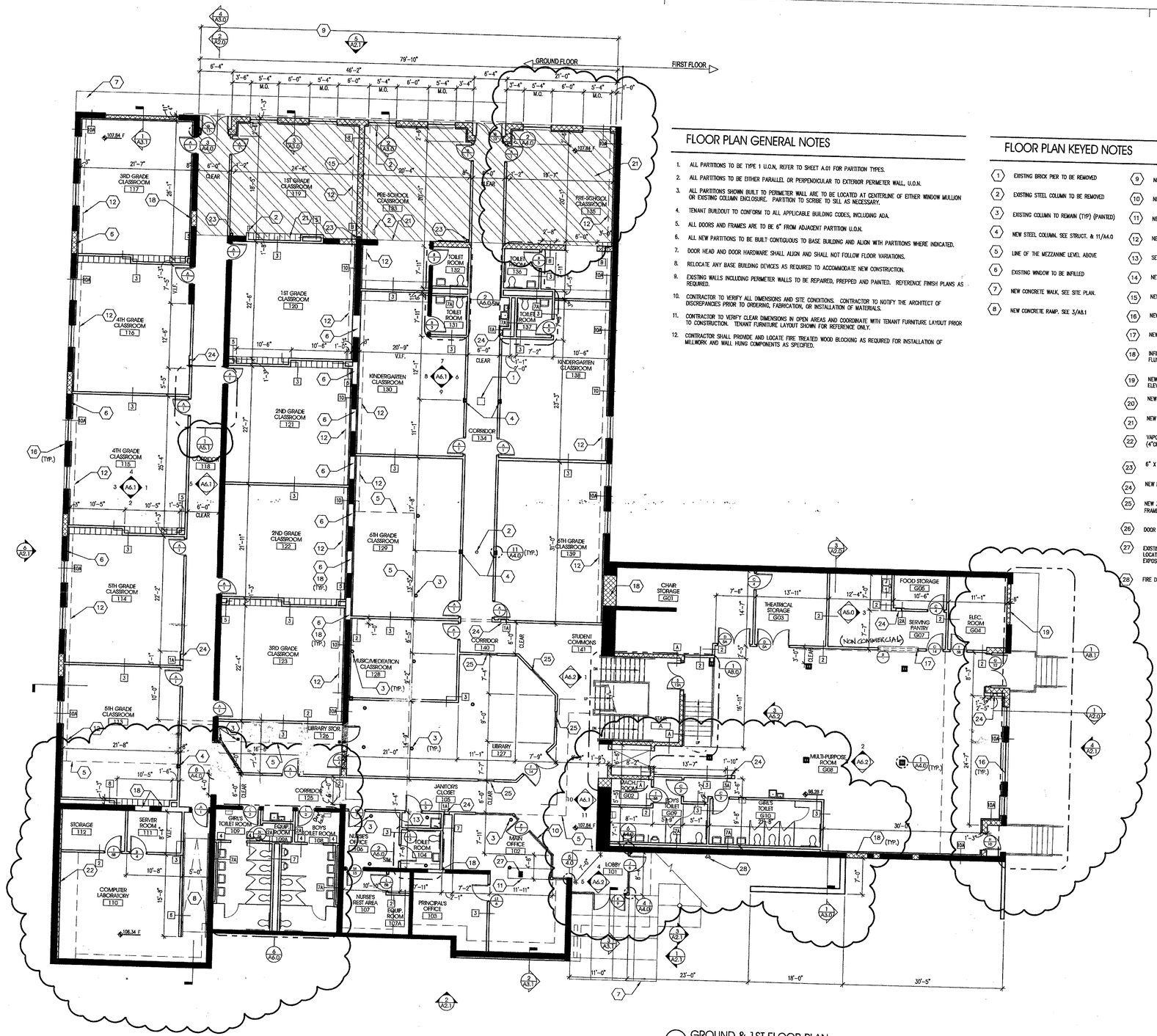
DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION

Abdullahi Ibarow
Structural Engr. Section
Date

DRAWN BY:	FOX
DATE:	18 APRIL 2005
FOX PROJECT NO.:	04152.00

DRAWING NUMBER
A0.3

CONSTRUCTION DOCUMENTS



1 GROUND & 1ST FLOOR PLAN
SCALE: 1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. ALL PARTITIONS TO BE TYPE 1 U.O.N. REFER TO SHEET A.01 FOR PARTITION TYPES.
2. ALL PARTITIONS TO BE EITHER PARALLEL OR PERPENDICULAR TO EXTERIOR PERIMETER WALL, U.O.N.
3. ALL PARTITIONS SHOWN BUILT TO PERIMETER WALL ARE TO BE LOCATED AT CENTERLINE OF EITHER WINDOW MULLION OR EXISTING COLUMN ENCLOSURE. PARTITION TO SCRIBE TO SILL AS NECESSARY.
4. TENANT BUILDOUT TO CONFORM TO ALL APPLICABLE BUILDING CODES, INCLUDING ADA.
5. ALL DOORS AND FRAMES ARE TO BE 6" FROM ADJACENT PARTITION U.O.N.
6. ALL NEW PARTITIONS TO BE BUILT CONTIGUOUS TO BASE BUILDING AND ALIGN WITH PARTITIONS WHERE INDICATED.
7. DOOR HEAD AND DOOR HARDWARE SHALL ALIGN AND SHALL NOT FOLLOW FLOOR VARIATIONS.
8. RELOCATE ANY BASE BUILDING DEVICES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
9. EXISTING WALLS INCLUDING PERIMETER WALLS TO BE REPAIRED, PREPPED AND PAINTED. REFERENCE FINISH PLANS AS REQUIRED.
10. CONTRACTOR TO VERIFY ALL DIMENSIONS AND SITE CONDITIONS. CONTRACTOR TO NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO ORDERING, FABRICATION, OR INSTALLATION OF MATERIALS.
11. CONTRACTOR TO VERIFY CLEAR DIMENSIONS IN OPEN AREAS AND COORDINATE WITH TENANT FURNITURE LAYOUT PRIOR TO CONSTRUCTION. TENANT FURNITURE LAYOUT SHOWN FOR REFERENCE ONLY.
12. CONTRACTOR SHALL PROVIDE AND LOCATE FIRE TREATED WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF MILLWORK AND WALL HUNG COMPONENTS AS SPECIFIED.

FLOOR PLAN KEYED NOTES

1. EXISTING BRICK PIER TO BE REMOVED
2. EXISTING STEEL COLUMN TO BE REMOVED
3. EXISTING COLUMN TO REMAIN (TYP) (PAINTED)
4. NEW STEEL COLUMN. SEE STRUCT. & 11/A4.0
5. LINE OF THE MEZZANINE LEVEL ABOVE
6. EXISTING WINDOW TO BE INFILLED
7. NEW CONCRETE WALK, SEE SITE PLAN.
8. NEW CONCRETE RAMP. SEE 3/A8.1
9. NEW CONCRETE SLAB FLUSH W/ EXISTING CONCRETE SLAB.
10. NEW STORFRONT SYSTEM. SEE A8.0
11. NEW OFFICE COUNTER. SEE 9/A5.0
12. NEW FURRED OUT WALL W/ OVERHEAD SHELF: (SEE 4/A4.4)
13. SEE SPEC. FOR MISC. TOILET ACCESS. EQUIPE.
14. NEW CONCRETE RAMP, SEE 1/A8.1
15. NEW 8" CMU INFILL WALL.
16. NEW WINDOW UNITS, SEE ELEVATIONS.
17. NEW OVERHEAD SHUTTER: (SEE 5/A4.3)
18. INFILL BLOCK PARTITION TO MATCH ADJACENT. FINISH TO BE FLUSH TO ADJACENT
19. NEW 8" CMU INFILL W/ FULL INSULATION. CORE. FILL. SEE ELEVATIONS.
20. NEW CONCRETE DOCK: (SEE 7/A4.3)
21. NEW RAISED CONCRETE SLAB INFILL, (SEE 6/A4.3)
22. VAPOR BARRIER FURR OUT (4"CMU. WALL FURRED 2" AWAY FOR EXISTING WALL).
23. 6" X 6" STEEL POST FOR SUPPORT OF NEW ROOF.
24. NEW RECESSED FIRE EXTINGUISHER CABINET: (SEE SPEC.)
25. NEW 36"Hx42"W WINDOW UNIT, SILL AT 3'-0" A.F.F. IN H.M. FRAME. GLAZING: 1/4" WIRE GLASS.
26. DOOR BY LIFT MANUFACTURER.
27. EXISTING MASONRY COLUMN TO REMAIN LOCATION TO BE V.I.F. TRIM AND CLEAN EXISTING MASONRY FOR EXPOSED MASONRY FINISH
28. FIRE DEPARTMENT CONNECTION

FLOOR PLAN LEGEND

EXISTING PARTITION — NEW DEMISING PARTITION — DOOR TYPE / HARDWARE TYPE
NEW PARTITION — LINE OF SLOPED PARTITION ABOVE

- TYPE 1: NEW SLAB TO SLAB SMOKE PARTITION
- TYPE 1A: NEW SLAB TO SLAB SMOKE PARTITION
- TYPE 2: SLAB TO SLAB PARTITION–1HR RATED PARTITION
- TYPE 2A: SLAB TO SLAB PARTITION–1HR RATED PARTITION
- TYPE 3: SLAB TO SLAB PARTITION WITH INSULLATION
- TYPE 3A: SLAB TO SLAB PARTITION WITH INSULLATION
- TYPE 4: SLAB TO SLAB PARTITION WITHOUT INSULLATION
- TYPE 5: SLAB TO SLAB ONE–SIDE FINISHED PARTITION
- TYPE 6: PARTIAL HEIGHT PARTITION
- TYPE 7: STC 45 PARTITION – CHASE CONDITION.
- TYPE 7A: CHASE PARTITION – CHASE CONDITION.
- TYPE 7B: 1 HR. RATED PARTITION – CHASE CONDITION.
- TYPE 8: 1 HR. RATED SHAFT PARTITION – SHAFT CONDITION.
- TYPE 10: EXISTING WALL FURRED OUT.
- TYPE 10A: EXISTING WALL FURRED OUT ON ONE SIDE.
- TYPE A: 2 HOUR CMU WALL
- TYPE A1: NON RATED CMU WALL
- TYPE B: CMU WALL – FURRED OUT AND FINISHED.
- TYPE C: CMU WALL – CHASE CONDITION.

NEW SLAB AREA = 1815 SQFT

BUILDING AND LAND REGULATION ADMINISTRATION
Fire Protection Division
PLANS APPROVED: ☐ AS SUBMITTED ☒ AS NOTED
FINAL INSTALLATION APPROVAL SUBJECT TO FIELD INSPECTION
These plans have been reviewed by the Fire Protection Division and are found to be in compliance with the D.C. Construction Codes.
Signature ____ Date AUG 3 2005
Fire Protection Division

CONSTRUCTION DOCUMENTS

FOX ARCHITECTS
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703 821 7990 Fax 703 821 2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
GROUND & 1ST FLOOR PLAN

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CD SET	28 FEBRUARY 2005
CD SET	18 APRIL 2005

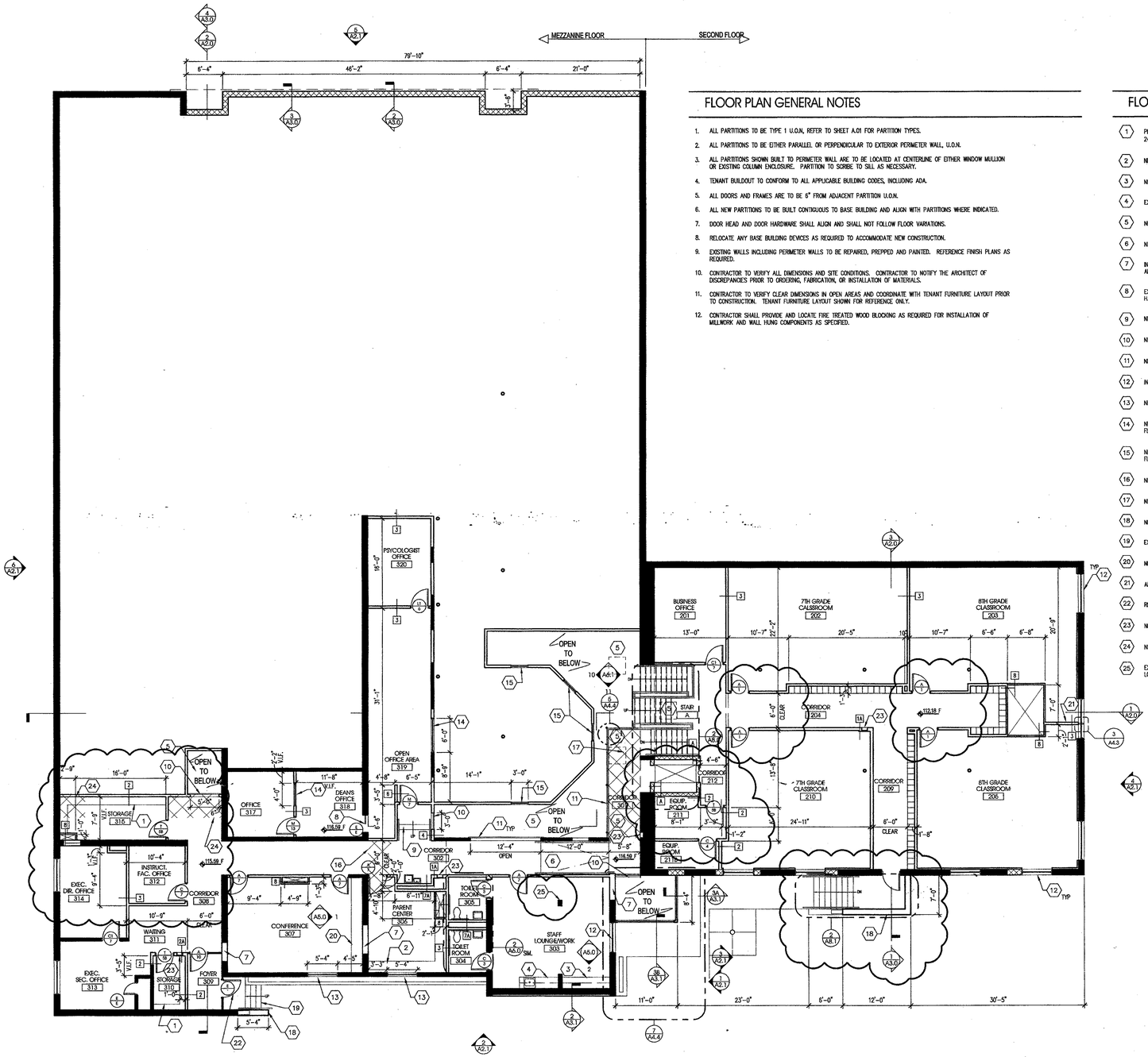
STAMP: DISTRICT OF COLUMBIA · ROBERT A. FOX · No. 5607 · REGISTERED ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdulahi Barrow
Structural Engr. Section
Date

DRAWN BY: FOX
DATE: 18 APRIL 2005
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A1.0

CONSTRUCTION DOCUMENTS



1 2ND & MEZZANINE FLOOR PLAN
SCALE: 1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. ALL PARTITIONS TO BE TYPE 1 U.O.N, REFER TO SHEET A.01 FOR PARTITION TYPES.
2. ALL PARTITIONS TO BE EITHER PARALLEL OR PERPENDICULAR TO EXTERIOR PERIMETER WALL, U.O.N.
3. ALL PARTITIONS SHOWN BUILT TO PERIMETER WALL ARE TO BE LOCATED AT CENTERLINE OF EITHER WINDOW MULLION OR EXISTING COLUMN ENCLOSURE. PARTITION TO SCRIBE TO SILL AS NECESSARY.
4. TENANT BUILDOUT TO CONFORM TO ALL APPLICABLE BUILDING CODES, INCLUDING ADA.
5. ALL DOORS AND FRAMES ARE TO BE 6" FROM ADJACENT PARTITION U.O.N.
6. ALL NEW PARTITIONS TO BE BUILT CONTIGUOUS TO BASE BUILDING AND ALIGN WITH PARTITIONS WHERE INDICATED.
7. DOOR HEAD AND DOOR HARDWARE SHALL ALIGN AND SHALL NOT FOLLOW FLOOR VARIATIONS.
8. RELOCATE ANY BASE BUILDING DEVICES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
9. EXISTING WALLS INCLUDING PERIMETER WALLS TO BE REPAIRED, PREPPED AND PAINTED. REFERENCE FINISH PLANS AS REQUIRED.
10. CONTRACTOR TO VERIFY ALL DIMENSIONS AND SITE CONDITIONS. CONTRACTOR TO NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO ORDERING, FABRICATION, OR INSTALLATION OF MATERIALS.
11. CONTRACTOR TO VERIFY CLEAR DIMENSIONS IN OPEN AREAS AND COORDINATE WITH TENANT FURNITURE LAYOUT PRIOR TO CONSTRUCTION. TENANT FURNITURE LAYOUT SHOWN FOR REFERENCE ONLY.
12. CONTRACTOR SHALL PROVIDE AND LOCATE FIRE TREATED WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF MILLWORK AND WALL HUNG COMPONENTS AS SPECIFIED.

FLOOR KEYED NOTES

1. PROVIDE 5 EQUALLY SPACED KV UTILITY GRADE SHELVING, HEAVY DUTY KV STANDARDS @ 24"O.C.. SEE DETAIL 8/A5.0
2. NEW MILLWORK COUNTER TOP, SEE 7/A5.0
3. NEW MILLWORK: UPPER AND LOWER CABINETS. SEE 2/A5.0
4. EXISTING MILLWORK TO REMAIN
5. NEW SKYLIGHT ABOVE. SEE 9/A4.2 COORDINATE WITH JOIST SPACING ABOVE.
6. NEW CONC. RAMP. SEE 4/A8.1
7. INFILL VOID IN BLOCK PARTITION TO MATCH ADJACENT CONSTRUCTION. FINISH FLUSH WITH ADJACENT.
8. EXISTING SLIDING DOOR ASSEMBLY. VERIFY OPERATION AND REPAIR AS REQUIRED. PROVIDE H.C. PULL.
9. NEW STAIR. SEE DETAIL
10. NEW GUARD RAIL INFILL. SEE DETAIL 5/A3.1
11. NEW GUARD RAIL. SEE DETAIL 4/A8.0
12. INFILL WINDOW UNIT. SEE ELEVATIONS.
13. NEW WINDOW UNIT. SEE ELEVATIONS.
14. NEW 36"HX 36"W WINDOW UNIT. SILL AT +36" A.F.F. IN H.M. FRAME. GLAZING: 1/4" CLEAR FLOAT.
15. NEW 36"Hx42"W WINDOW UNIT, SILL AT 11'-3" A.F.F. IN H.M. FRAME. GLAZING: 1/4" CLEAR FLOW.
16. NEW MEZZANINE EXTENSION. SEE DETAIL. (10A/A4.3)
17. NEW MEZZANINE EXTENSION. SEE DETAIL. (6/A8.0)
18. NEW CMU WING WALL. SEE 9/A8.1
19. EXISTING STAIR TO REMAIN. NEW HAND RAIL REQUIRED.
20. NEW BUFFET UNIT. SEE DETAIL 1/A5.0
21. ALIGN PARTITION ON VERTICAL MULLION OF WINDOW. SEE DETAIL 3/A8.2
22. REWSE CYLINDER CORE AND RE-KEY TO MATCH NEW KEYING SYSTEM.
23. NEW RECESSED FIRE EXTINGUISHER CABINET: (SEE SPEC.)
24. NEW MEZZANINE EXTENSION. SEE DETAIL. (10B/A4.3)
25. EXISTING MASONRY COLUMN TO REMAIN
LOCATION TO BE V.I.F. TRIM AND CLEAN EXISTING MASONRY FOR EXPOSED MASONRY FINISH

FLOOR PLAN LEGEND

EXISTING PARTITION — NEW DEMISING PARTITION — DOOR TYPE / HARDWARE TYPE
NEW PARTITION — LINE OF SLOPED PARTITION ABOVE

- TYPE 1: NEW SLAB TO SLAB SMOKE PARTITION
- TYPE 1A: NEW SLAB TO SLAB SMOKE PARTITION
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- TYPE 6: PARTIAL HIEGHT PARTITION
- TYPE 7: STC 45 PARTITION – CHASE CONDITION.
- TYPE 7A: CHASE PARTITION – CHASE CONDITION.
- TYPE 7B: 1 HR. RATED PARTITION – CHASE CONDITION.
- TYPE 8: 1 HR. RATED SHAFT PARTITION – SHAFT CONDITION.
- TYPE 10: EXISTING WALL FURRED OUT.
- TYPE 10A: EXISTING WALL FURRED OUT ON ONE SIDE.
- TYPE A: 2 HOUR CMU WALL
- TYPE A1: NON RATED CMU WALL
- TYPE B: CMU WALL – FURRED OUT AND FINISHED.
- TYPE C: CMU WALL – CHASE CONDITION.

MEZZANINE ADDITION AREA = 176 SQ/FT

CONSTRUCTION DOCUMENTS

FOX ARCHITECTS

8000 Towers Crescent Drive. Suite 240 Vienna. Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
2ND & MEZZANINE FLOOR PLAN

ISSUED:

PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CD SET	28 FEBRUARY 2005
CD SET	18 APRIL 2005

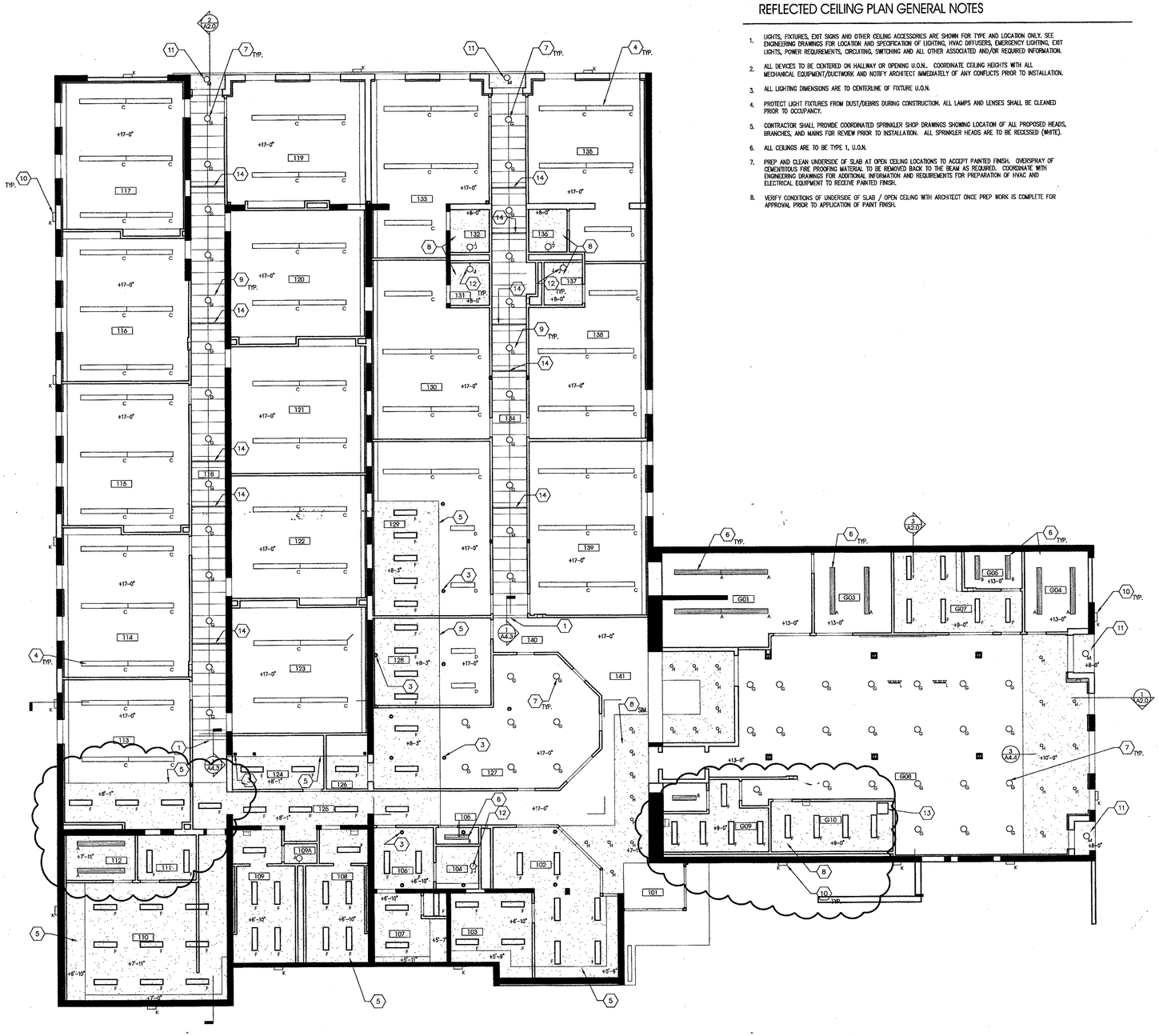
STAMP: DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdullahi Barrow
Structural Engr. Section
Date

DRAWN BY: FOX
DATE: 18 APRIL 2005
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A1.1

CONSTRUCTION DOCUMENTS



1 GROUND & 1ST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. LIGHTS, FIXTURES, EXIT SIGNS AND OTHER CEILING ACCESSORIES ARE SHOWN FOR TYPE AND LOCATION ONLY. SEE ENGINEERING DRAWINGS FOR LOCATION AND SPECIFICATION OF LIGHTING, HVAC DIFFUSERS, EMERGENCY LIGHTING, EXIT LIGHTS, POWER REQUIREMENTS, CIRCUITING, SWITCHING AND ALL OTHER ASSOCIATED AND/OR REQUIRED INFORMATION.
2. ALL DEVICES TO BE CENTERED ON HALLWAY OR OPENING U.O.N.. COORDINATE CEILING HEIGHTS WITH ALL MECHANICAL EQUIPMENT/DUCTWORK AND NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS PRIOR TO INSTALLATION.
3. ALL LIGHTING DIMENSIONS ARE TO CENTERLINE OF FIXTURE U.O.N.
4. PROTECT LIGHT FIXTURES FROM DUST/DEBRIS DURING CONSTRUCTION. ALL LAMPS AND LENSES SHALL BE CLEANED PRIOR TO OCCUPANCY.
5. CONTRACTOR SHALL PROVIDE COORDINATED SPRINKLER SHOP DRAWINGS SHOWING LOCATION OF ALL PROPOSED HEADS, BRANCHES, AND MAINS FOR REVIEW PRIOR TO INSTALLATION. ALL SPRINKLER HEADS ARE TO BE RECESSED (WHITE).
6. ALL CEILINGS ARE TO BE TYPE 1, U.O.N.
7. PREP AND CLEAN UNDERSIDE OF SLAB AT OPEN CEILING LOCATIONS TO ACCEPT PAINTED FINISH. OVERSPRAY OF CEMENTITIOUS FIRE PROOFING MATERIAL TO BE REMOVED BACK TO THE BEAM AS REQUIRED. COORDINATE WITH ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR PREPARATION OF HVAC AND ELECTRICAL EQUIPMENT TO RECEIVE PAINTED FINISH.
8. VERIFY CONDITIONS OF UNDERSIDE OF SLAB / OPEN CEILING WITH ARCHITECT ONCE PREP WORK IS COMPLETE FOR APPROVAL PRIOR TO APPLICATION OF PAINT FINISH.

PLAN KEY NOTES

1. NEW GWB. SOFFIT
2. NEW ACOUSTICAL CEILING TILE: ARMSTRONG-24"x48"x3/4" ULTIMA TILE
3. EXISTING COLUMN TO REMAIN (TYP.) (PAINTED)
4. NEW SUSPENDED PENDANT FIXTURE @ +10'-0"
5. LINE OF EXISTING MEZZANINE LEVEL; GYP BOARD CEILING. REPAIR AS REQUIRED FOR UNIFORM FINISH.
6. UTILITY GRADE FLOURESCENT FIXTURES, 48" LAMP.
7. SUSPENDED HI-BAY METAL HALOGEN FIXTURES @ 10'-0" A.F.F.
8. NEW GYP BOARD CEILING W/ 2 1/2" METAL FURRING @ 24" O.C.
9. NEW VAULTED A.C.T., SEE 1/A2.0
10. NEW EXTERIOR WALL PAKS, SEE ELEVATIONS.
11. NEW M.R. GYP. BOARD COVERED AREA AND RECESSED DOWNLIGHT FIXTURE
12. NEW WALL MOUNTED FIXTURE
13. 2'-0" X 2'-0" ACCESS PANEL IN GYP CEILING.
14. 2" GALVANIZED PIPE WITH EXPOSED FLANGE CONNECTIONS AT EACH END. MOUNTED AT 8'-0". AT EQUAL DISTANCES BETWEEN LIGHT FIXTURES IN LOCATIONS SHOWN.

CEILING LEGEND

TYPE 1:
TYPE: OPEN CEILING
NOTES: OPEN TO STRUCTURE ABOVE
FINISH: PAINT P1

TYPE 2:
TYPE: NEW ACT GRID AND TILE 48" X 24"
MANU.: ARMSTRONG DUNE BEVELED TEGULAR ARMSTRONG 9/16" SUPRAFINE XL EXPOSED TEE SYSTEM OR APPROVED EQUAL
HEIGHT: 8'-5" U.N.O.

TYPE 3:
TYPE: GWB CEILING / BULKHEAD
FINISH: PAINT P1 U.N.O.
HEIGHT: REFERENCE RCP

TYPE 4:
TYPE: GWB CASED OPENING/ BULKHEAD
FINISH: PAINT P1 U.N.O.
HEIGHT: REFERENCE RCP

FIXTURE LEGEND

- CONTRACTOR SHALL PROVIDE ALL LAMPS, BALLASTS, TRIM KITS, HOUSING, HANGERS AND REFLECTORS FOR A COMPLETE FIXTURE INSTALLATION.
- PRODUCTS TO BE PROVIDED AS SPECIFIED.
- NO SUBSTITUTIONS U.N.O. WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT AND SUBMISSION OF WORKING SAMPLES TO THE ARCHITECT. FLUORSCENT LAMPS TO BE 3500K U.N.O.

TYPE A:
TYPE: 8' INDUSTRIAL FLOURESCENT PENDANT FIXTURE
MANUF: DAY-BRITE
MODEL: 1FD232PP
COLOR: WHITE
NOTES: (2) T8 LAMPS SUSPENDED FROM THE SLAB MOUNT AT 9'-0" AFF

TYPE B:
TYPE: 4' INDUSTRIAL FLOURESCENT PENDANT FIXTURE
MANUF: DAY-BRITE
MODEL: 1FD232PP
COLOR: WHITE
NOTES: (2) T8 LAMPS SUSPENDED FROM THE SLAB MOUNT AT 9'-0" AFF

TYPE C:
TYPE: 8' SUSPENDED FLOURESCENT FIXTURE
MANUF: LIGHTOLIER
MODEL: CCM2047-96-E81 OR E82
COLOR:
NOTES: 8' LENGTHS MOUNT AT 8'-6" AFF ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE.

TYPE D:
TYPE: 4' SUSPENDED FLOURESCENT FIXTURE
MANUF: LIGHTOLIER
MODEL: CCM2047-48-E81 OR E82
COLOR:
NOTES: 4' LENGTHS MOUNT AT 8'-6" AFF ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE.

TYPE F:
TYPE: 12"X48" RECESSED DIRECT/INDIRECT FLOURESCENT FIXTURE
MANUF: LIGHTOLIER
MODEL: QVS12PFLV232120SB
COLOR: WHITE
NOTES: -

TYPE G:
TYPE: 12" DECORATIVE PENDANT FIXTURE
MANUF: EXCELINE - CONSTAR EB SERIES
MODEL: EB-C-12-100-HF-(TBD)-277
COLOR: CLEAR ANODIZED ALUMINUM IF AVAILABLE FOR FIXTURE AND FOR STEM.
NOTES: COMPACT FLOURESCENT LAMPS. 8'-6" AFF. FIELD VERIFY NECESSARY STEM LENGTH TO ACHIEVE DESIRED HEIGHT IN ALL LOCATIONS. ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE.

TYPE H:
TYPE: 6" RECESSED DOWNLIGHT FIXTURE
MANUF: OMEGA
MODEL: OMR26QPL
COLOR: WHITE FLANGE / WHITE REFLECTOR
NOTES: (1) 26QPL 3500K CENTER IN ACOUSTICAL CEILING TILE U.N.O. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED

TYPE J:
TYPE: 24" WALL MOUNTED FIXTURE
MANUF: LIGHTOLIER
MODEL: QVWRSPFOS2FT
COLOR: WHITE
NOTES: FIXTURE TO BE MOUNTED HORIZONTALLY ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED.

TYPE K:
TYPE: NEW WALL PACK FIXTURE
MANUF: DAY-BRITE LIGHTING
MODEL: WLH72M
COLOR:
NOTES: ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED.

TYPE L:
TYPE: NEW TRACK LIGHT FIXTURE
MANUF: LIGHTOLIER
MODEL: 8785WH
COLOR: WHITE
NOTES: ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED.

TYPE M:
TYPE: NEW 6" RECESS DOWNLIGHT
MANUF: LIGHTOLIER
MODEL: 1177SH
COLOR: WHITE FLANGE
NOTES: COMPACT FLOURESCENT LAMPS. ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED.

TYPE N:
TYPE: NEW 5" RECESS DOWN LIGHT
MANUF: LIGHTOLIER
MODEL: 1070
COLOR: WHITE
NOTES: COMPACT FLOURESCENT LAMPS. ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED.

CONSTRUCTION DOCUMENTS

FOX ARCHITECTS
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
GROUND & 1ST FLOOR CEILING PLAN

ISSUED:

PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
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CD SET	18 APRIL 2005

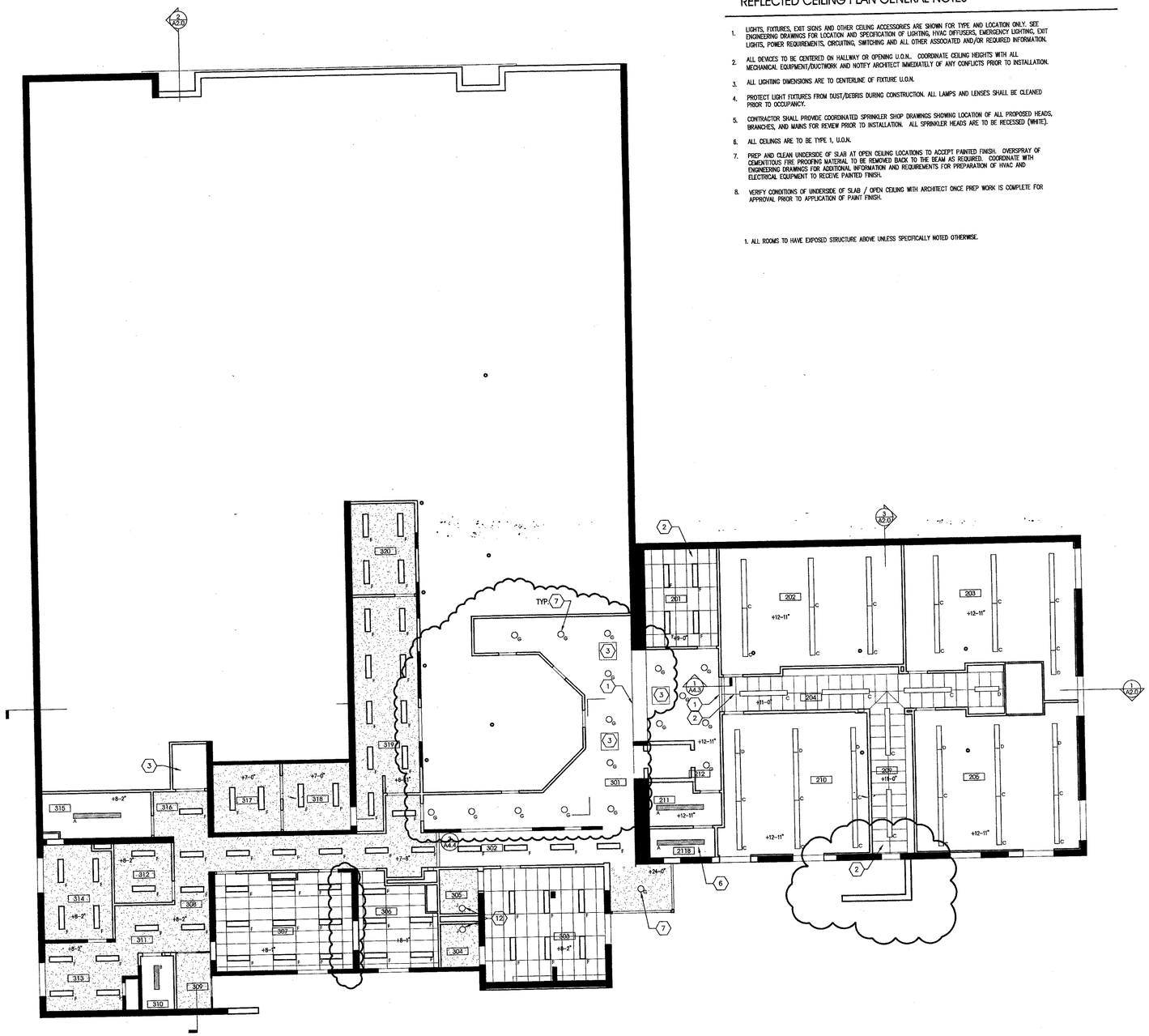
STAMP: DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 REGISTERED ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THIS
FURTHER APPROVAL OF CONSTRUCTION

Abdullahi Barrow
Structural Engr. Section
Date

DRAWN BY: FOX
DATE: 18 APRIL 2005
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A1.2



1 2ND & MEZZANINE FLOOR REFECTIVE CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. LIGHTS, FIXTURES, EXIT SIGNS AND OTHER CEILING ACCESSORIES ARE SHOWN FOR TYPE AND LOCATION ONLY. SEE ENGINEERING DRAWINGS FOR LOCATION AND SPECIFICATION OF LIGHTING, HVAC DIFFUSERS, EMERGENCY LIGHTING, EXIT LIGHTS, POWER REQUIREMENTS, CIRCUITING, SWITCHING AND ALL OTHER ASSOCIATED AND/OR REQUIRED INFORMATION.
2. ALL DEVICES TO BE CENTERED ON HALLWAY OR OPENING U.O.N.. COORDINATE CEILING HEIGHTS WITH ALL MECHANICAL EQUIPMENT/DUCTWORK AND NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS PRIOR TO INSTALLATION.
3. ALL LIGHTING DIMENSIONS ARE TO CENTERLINE OF FIXTURE U.O.N.
4. PROTECT LIGHT FIXTURES FROM DUST/DEBRIS DURING CONSTRUCTION. ALL LAMPS AND LENSES SHALL BE CLEANED PRIOR TO OCCUPANCY.
5. CONTRACTOR SHALL PROVIDE COORDINATED SPRINKLER SHOP DRAWINGS SHOWING LOCATION OF ALL PROPOSED HEADS, BRANCHES, AND MAINS FOR REVIEW PRIOR TO INSTALLATION. ALL SPRINKLER HEADS ARE TO BE RECESSED (WHITE).
6. ALL CEILINGS ARE TO BE TYPE 1, U.O.N.
7. PREP AND CLEAN UNDERSIDE OF SLAB AT OPEN CEILING LOCATIONS TO ACCEPT PAINTED FINISH. OVERSPRAY OF CEMENTITIOUS FIRE PROOFING MATERIAL TO BE REMOVED BACK TO THE BEAM AS REQUIRED. COORDINATE WITH ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR PREPARATION OF HVAC AND ELECTRICAL EQUIPMENT TO RECEIVE PAINTED FINISH.
8. VERIFY CONDITIONS OF UNDERSIDE OF SLAB / OPEN CEILING WITH ARCHITECT ONCE PREP WORK IS COMPLETE FOR APPROVAL PRIOR TO APPLICATION OF PAINT FINISH.

1. ALL ROOMS TO HAVE EXPOSED STRUCTURE ABOVE UNLESS SPECIFICALLY NOTED OTHERWISE.

REFLECTED CEILING PLAN KEY NOTES

1. NEW GWB. SOFFIT
2. NEW ACOUSTICAL CEILING TILE: ARMSTRONG-24"x48"x3/4" ULTIMA TILE
3. NEW SKY LIGHT (TYP.) SEE DETAIL 9/A4.2. FINAL LOCATION TO BE COORDINATED WITH ARCHITECT.
4. NEW SUSPENDED PENDANT FIXTURE @ +10'-0"
5. LINE OF EXISTING MEZZANINE LEVEL; GYP BOARD CEILING
6. UTILITY GRADE FLOURESCENT FIXTURES
7. SUSPENDED HI-BAY METAL HALOGEN FIXTURES
8. NEW GYP BOARD CEILING
9. NEW VAULTED A.C.T., SEE 1/A2.0
10. NEW EXTERIOR WALL PAKS, SEE ELEVATIONS.
11. NEW COVERED AREA AND LIGHT FIXTURES
12. NEW WALL MOUNTED FIXTURE

CEILING LEGEND

TYPE 1:
TYPE: OPEN CEILING
NOTES: OPEN TO SYRUCTURE ABOVE
FINISH: PAINT P1

TYPE 2:
TYPE: NEW ACT GRID AND TILE 48" X 24"
MANUF: ARMSTRONG DUNE BEVELED TEGULAR ARMSTRONG 9/16" SUPRAFINE XL EXPOSED TEE SYSTEM OR APPROVED EQUAL
HEIGHT: 8'-5" U.N.O.

TYPE 3:
TYPE: GWB CEILING / BULKHEAD
FINISH: PAINT P1 U.N.O.
HEIGHT: REFERENCE RCP

TYPE 4:
TYPE: GWB CASED OPENING/ BULKHEAD
FINISH: PAINT P1 U.N.O.
HEIGHT: REFERENCE RCP

FIXTURE LEGEND

- CONTRACTOR SHALL PROVIDE ALL LAMPS, BALLASTS, TRIM KITS, HOUSING, HANGERS AND REFLECTORS FOR A COMPLETE FIXTURE INSTALLATION.
- PRODUCTS TO BE PROVIDED AS SPECIFIED.
- NO SUBSTITUTIONS U.N.O. WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT AND SUBMISSION OF WORKING SAMPLES TO THE ARCHITECT.
- FLUORSCENT LAMPS TO BE 3500K U.N.O.

TYPE A:
TYPE: 8' INDUSTRIAL FLOURESCENT PENDANT FIXTURE
MANUF: DAY-BRITE
MODEL: 1FD2/2PP
COLOR: WHITE
NOTES: (2) T8 LAMPS SUSPENDED FROM THE SLAB MOUNT AT 9'-6" AFF

TYPE B:
TYPE: 4' INDUSTRIAL FLOURESCENT PENDANT FIXTURE
MANUF: DAY-BRITE
MODEL: 1FD2/2PP
COLOR: WHITE
NOTES: (2) T8 LAMPS SUSPENDED FROM THE SLAB MOUNT AT 9'-6" AFF

TYPE C:
TYPE: 8' SUSPENDED FLOURESCENT FIXTURE
MANUF: LIGHTOLIER
MODEL: CCM2047-96-EB1 OR EB2
COLOR:
NOTES: 8' LENGTHS MOUNT AT 8'-6" AFF ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE.

TYPE D:
TYPE: 4' SUSPENDED FLOURESCENT FIXTURE
MANUF: LIGHTOLIER
MODEL: CCM2047-48-EB1 OR EB2
COLOR:
NOTES: 4' LENGTHS MOUNT AT 8'-6" AFF ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE.

TYPE F:
TYPE: 12"X48" RECESSED DIRECT/INDIRECT FLOURESCENT FIXTURE
MANUF: LIGHTOLIER
MODEL: QVS12FYLV232120SB
COLOR: WHITE
NOTES: -

TYPE G:
TYPE: 12" DECORATIVE PENDANT FIXTURE
MANUF: EXCELINE - CONSTAR EB SERIES
MODEL: EB-E-12-100-HF-(180)-277
COLOR: CLEAR ANODIZED ALUMINUM IF AVAILABLE FOR FIXTURE AND FOR STEM.
NOTES: COMPACT FLOURESCENT LAMPS. 8'-6" AFF. FIELD VERIFY NECESSARY STEM LENGTH TO ACHIEVE DESIRED HEIGHT IN ALL LOCATIONS. ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE.

TYPE H:
TYPE: 6" RECESSED DOWNLIGHT FIXTURE
MANUF: OMEGA
MODEL: OMR626PL
COLOR: WHITE FLANGE / WHITE REFLECTOR
NOTES: (1) 26SPL 3500K CENTER IN ACOUSTICAL CEILING TILE U.N.O. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED

TYPE J:
TYPE: 24" WALL MOUNTED FIXTURE
MANUF: LIGHTOLIER
MODEL: CVWBSP05S2FT
COLOR: WHITE
NOTES: FIXTURE TO BE MOUNTED HORIZONTALLY ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED.

TYPE K:
TYPE: NEW WALL PACK FIXTURE
MANUF: DAY-BRITE LIGHTING
MODEL: WLH75M
COLOR:
NOTES: ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED.

TYPE L:
TYPE: NEW TRACK LIGHT FIXTURE
MANUF: LIGHTOLIER
MODEL: 878SWH
COLOR: WHITE
NOTES: ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED.

TYPE M:
TYPE: NEW 6" RECESS DOWNLIGHT
MANUF: LIGHTOLIER
MODEL: 1177SH
COLOR: WHITE FLANGE
NOTES: COMPACT FLOURESCENT LAMPS. ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED.

TYPE N:
TYPE: NEW 5" RECESS DOWN LIGHT
MANUF: LIGHTOLIER
MODEL: 1070
COLOR: WHITE
NOTES: COMPACT FLOURESCENT LAMPS. ELECTRICAL ENGINEER TO REVIEW FOR APPROPRIATE VOLTAGE. CONTRACTOR TO CHECK LEAD TIMES AND PRE-RELEASE AS REQUIRED.

CONSTRUCTION DOCUMENTS

FOX ARCHITECTS

8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:
TREE OF LIFE - PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
2ND & MEZZANINE FLOOR CEILING PLAN

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CD SET	28 FEBRUARY 2005
CD SET	18 APRIL 2005

STAMP: DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 REGISTERED ARCHITECT

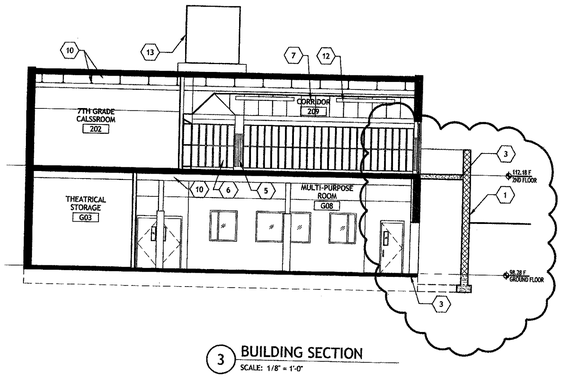
DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION

Abdulkarim Barrow
Structural Engr. Section
Date

DRAWN BY:	FOX
DATE:	18 APRIL 2005
FOX PROJECT NO.:	04152.00

DRAWING NUMBER
A1.3

CONSTRUCTION DOCUMENTS



3 BUILDING SECTION
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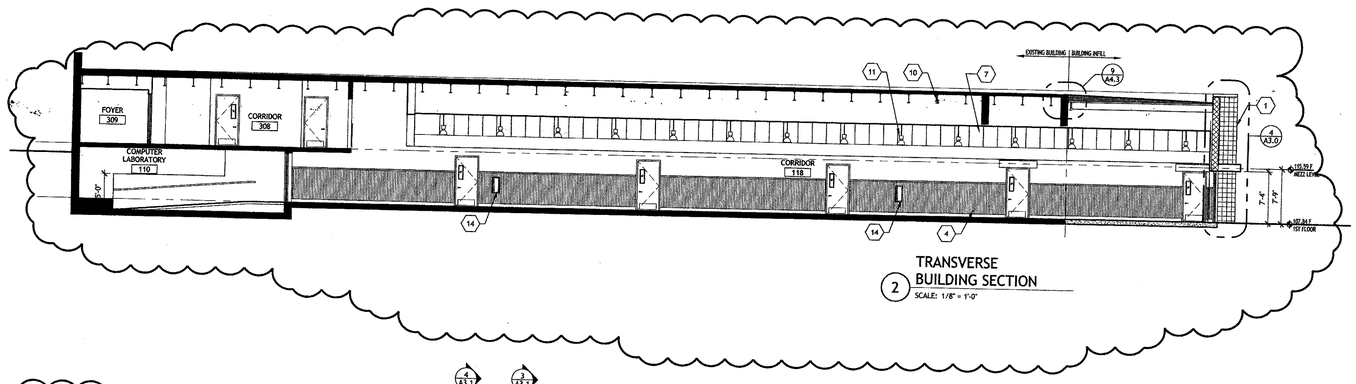

TRANSVERSE
2 BUILDING SECTION
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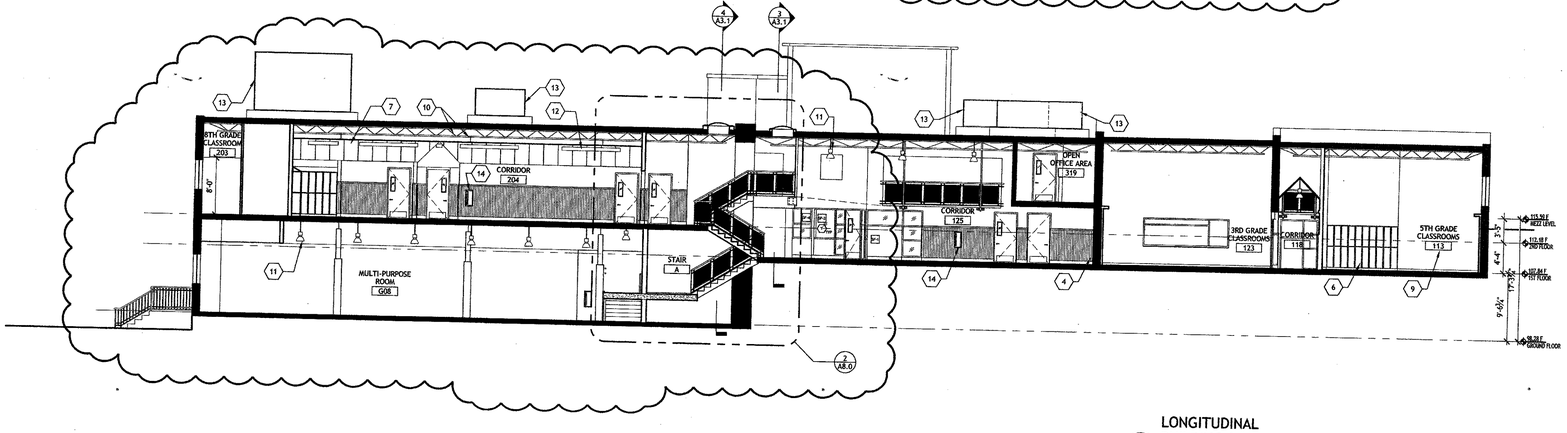


LONGITUDINAL
1 BUILDING SECTION
SCALE: 1/8" = 1'-0"

BUILDING SECTION KEY NOTES

1. SPLIT-FACE BLOCK
2. CMU. BLOCK
3. CONC. SLAB
4. CORRUGATED MTL. WANESCOT (TYP.) SEE 2/A4.3
5. HOLLOW MTL. ENTRANCE PANEL (TYP.) SEE 2/A5.1
6. LOCKERS (TYP.) SEE SPEC.
7. ACOUSTICAL CEILING TILE: SEE SPEC.
8. SKYLIGHT (TYP.) SEE 9/A4.2
9. MARKER BOARD (TYP.) SEE EQUIP. PLAN
10. EXISTING STEEL STRUCTURE
11. 12" DECORATIVE PENDANT FIXTURE (TYP.) SEE ELEC.
12. 8' FLUORESCENT FIXTURE (TYP.) SEE ELEC.
13. NEW MECHANICAL UNIT. SEE MECH.
14. FIRE EXTINGUISHER: SEE SPEC.

CONSTRUCTION DOCUMENTS

FOX ARCHITECTS
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
BUILDING SECTIONS

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CD SET	28 FEBRUARY 2005
CD SET	18 APRIL 2005

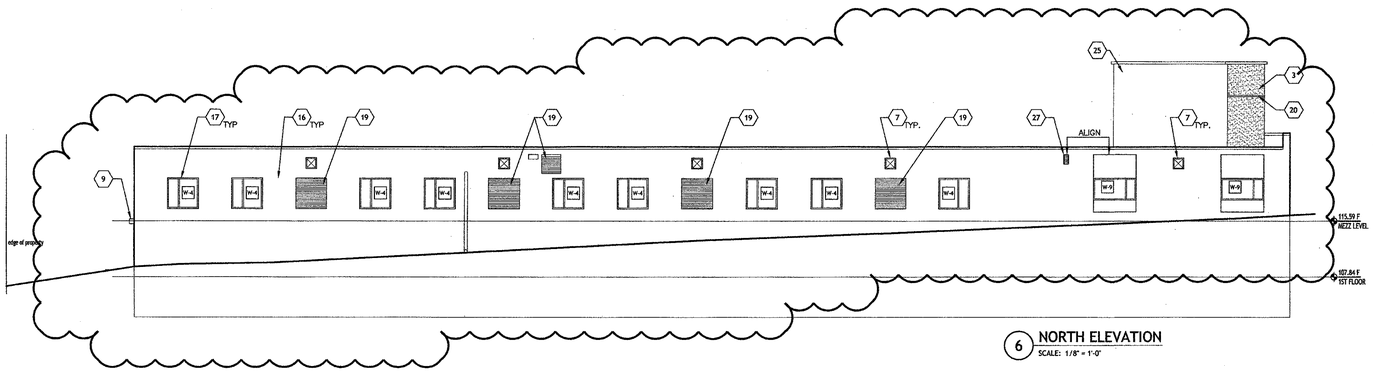
STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No 5607 REGISTERED ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdullah Barrow
Structural Engr. Section
Date

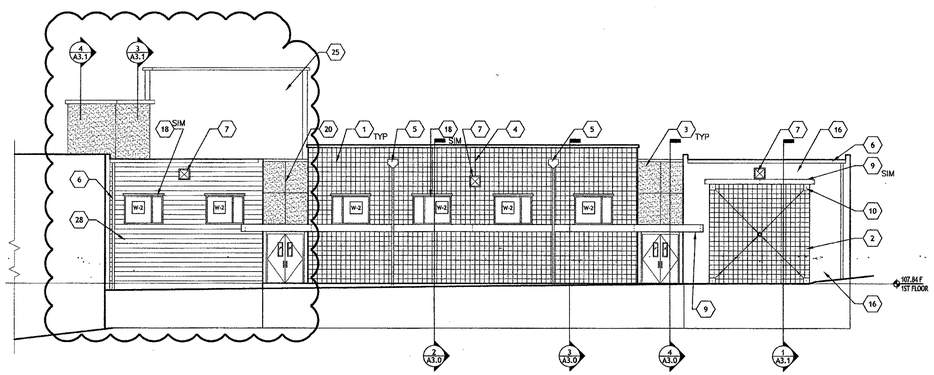
DRAWN BY:	FOX
DATE:	18 APRIL 2005
FOX PROJECT NO.:	04152.00

DRAWING NUMBER
A2.0

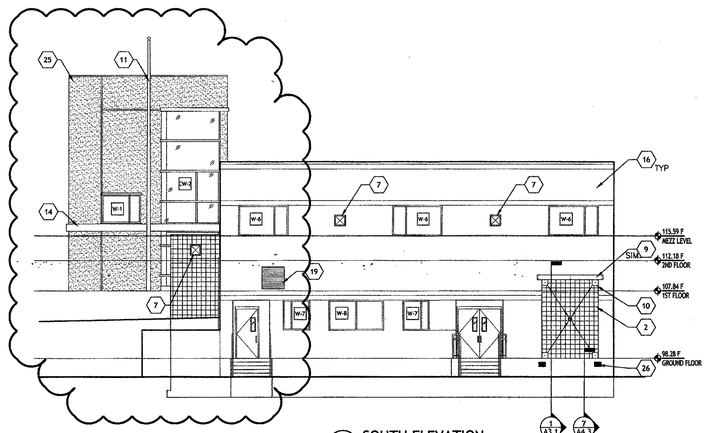
CONSTRUCTION DOCUMENTS



6 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



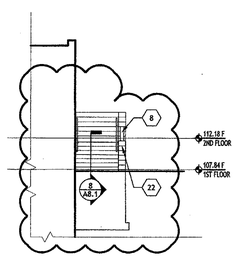
5 EAST ELEVATION
SCALE: 1/8" = 1'-0"



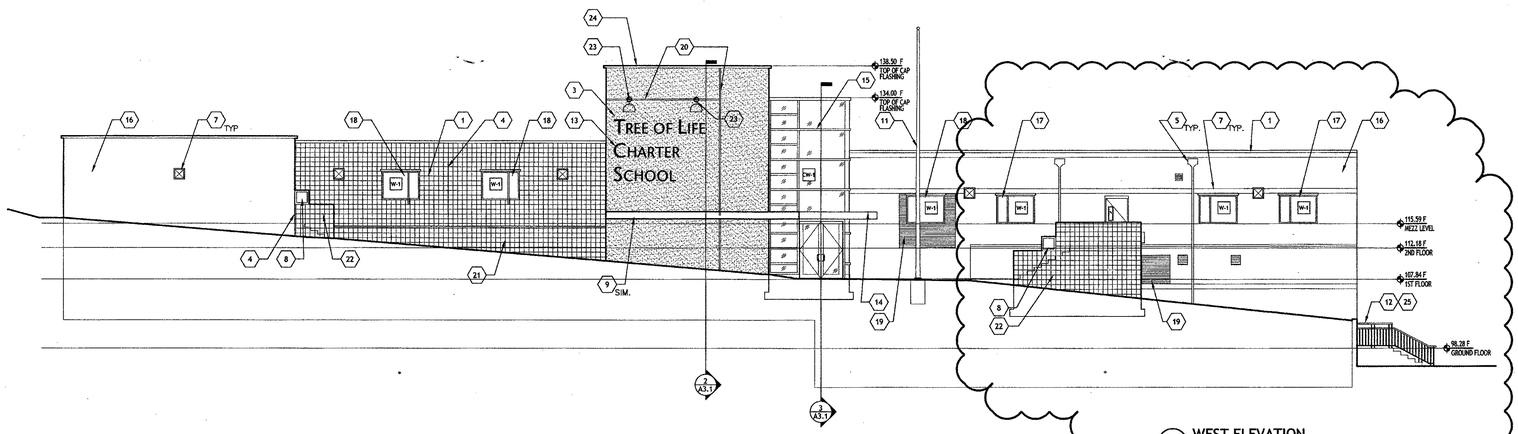
4 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

BUILDING ELEVATIONS KEY NOTES

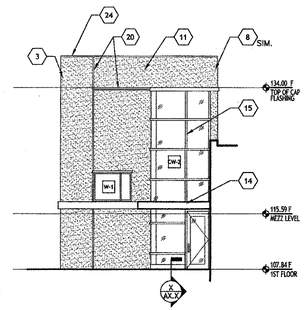
1. NEW SPLIT-FACE BLOCK: RETCO NO.364, CENTER SCORED, PROVIDE "DRY BLOCK" FINISH (OR APPROVED EQUAL.)
2. NEW CMU. BLOCK INFILL (PAINTED).
3. EXTERIOR INSULATION AND FINISH SYSTEM: PROVIDE 2" EXTRUDED RIGID POLYSTYRENE BOARD INSULATION, REINFORCING MESH, BASE COAT AND FINISH. (COLOR AND TEXTURE, AND PATTERN TO SELECTED BY ARCHITECT)
4. MASONRY CONTROL JOINT.
5. NEW PRE-FINISHED SCUPPER AND DOWN SPOUT.
6. EXISTING GUTTER AND DOWN SPOUT.
7. NEW WALL PACK LIGHT FIXTURE. (SEE ELEC.)
8. HOLLOW METAL FRAME WITH PAINTED METAL PANEL INSERT ACCENT. (SEE 9/A8.1)
9. NEW DECORATIVE METAL CHANNEL AND CANOPY (PAINTED).
10. METAL PLATE ATTACHED TO METAL ROD CROSS BRACING. (SEE 2/A4.2)
11. NEW 35'-0" ALUM. FLAG POLE. SEE 10/A4.2
12. NEW METAL RAILING. (SEE A8.1)
13. 18" ALUM. SIGNAGE (FONT TYPE TO BE DETERMINED)
14. ALUM. CLAD CANOPY. SEE 3/A4.2
15. ALUM CURTAIN WALL SYSTEM, INSULATED. (SEE 3/A4.2)
16. PAINT EXISTING MASONRY WALL.
17. NEW INFILL WINDOW UNIT IN EXISTING OPENING.
18. NEW WINDOW UNIT IN EXISTING MASONRY. SAW CUT OPENING AS NOTED.
19. NEW MASONRY INFILL TO MATCH ADJACENT CONSTRUCTION - FLUSH WITH EXISTING MASONRY.
20. E.I.F.S. RECESSED REVEAL, SEE 4/A4.3
21. NEW SPLIT FACE MASONRY VENEER OVER EXISTING MASONRY, 2 1/4".
22. NEW SPLIT FACE MASONRY WING WALL. (SEE 9/A8.1)
23. NEW WALL MOUNTED ACCENT LIGHT. SEE ELECTRICAL DWGS.
24. NEW PRE-FINISHED METAL CAP FLASHING.
25. STRUCTURE BEYOND.
26. RUBBER DOCK BUMPER GUARDS.
27. MECH. LOUVER WITH 50% FREE FLOW AREAS (COLOR TO MATCH EXTERIOR FINISH)
28. NEW CMU. BLOCK (PAINTED)



3 NORTH EXIT ELEVATION
SCALE: 1/8" = 1'-0"



2 WEST ELEVATION
SCALE: 1/8" = 1'-0"



1 SOUTH ENTRANCE ELEVATION
SCALE: 1/8" = 1'-0"

CONSTRUCTION DOCUMENTS

FOX ARCHITECTS
8000 Towers Crescent Drive. Suite 240 Vienna. Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
BUILDING ELEVATIONS

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CD SET	28 FEBRUARY 2005
CD SET	18 APRIL 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 REGISTERED ARCHITECT

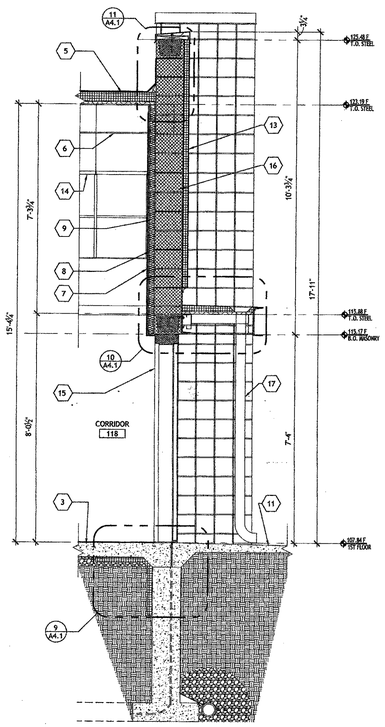
DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdollahi Barrow
Structural Engr. Section
Date

DRAWN BY:	FOX
DATE:	18 APRIL 2005
FOX PROJECT NO.:	04152.00

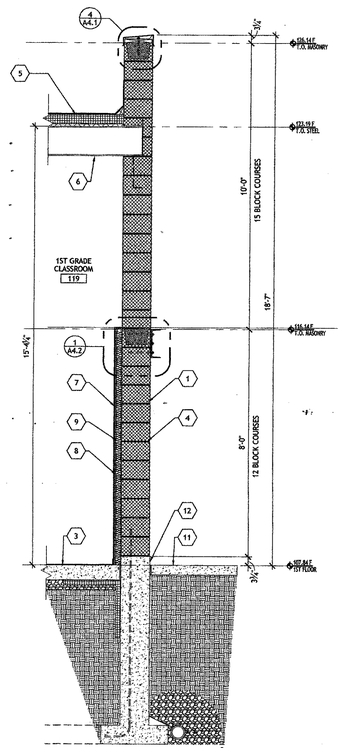
DRAWING NUMBER
A2.1

KEY NOTES

1 NEW 12" SPLIT-FACE C.M.U. W/ INSUL. CORE	7 5/8" G.W.B.	13 E.I.F.S SYSTEM	19 GLASS CURTAIN WALL SYSTEM	25 EXISTING CONC. SLAB
2 6" CMU. BLOCK	8 2 1/2" METAL FRAMING	14 A.C.T. CEILING	20 3/4" PLYWOOD SHEATHING	26 EXIST. FOUNDATION WALL
3 NEW CONC. SLAB	9 FOIL FACED BATT INSULATION	15 HOLLOW METAL FRAME	21 METAL STUD FRAMING	27 EXIST. ROOF.
4 NEW HORIZONTAL LADDER TIES @16" O.C.	10 NEW EXTERIOR LIGHT FIXTURE. AS SPEC'D	16 NEW 12" C.M.U. W/ INSUL. CORE	22 METAL CROSS BRACING	28 2HR RATED-ENCUPSULATED EXISTING FLOOR STRUCTURE - (U.L.-L541)
5 NEW EPDM. MEMBRANE	11 NEW CONC. WALK	17 DOWN SPOUT	23 EXIST. MASONRY WALL	
6 NEW STL. BEAM. SEE STRUCT. DWG'S.	12 NEW CONC. FOUNDATION WALL	18 NEW 8" SPLIT-FACE C.M.U. W/ INSUL. CORE	24 EXIST. STL. STRUCT.	



4 WALL SECTION
SCALE: 1/2" = 1'-0"



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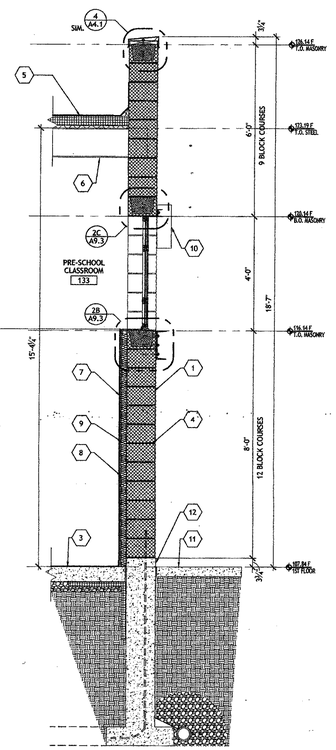

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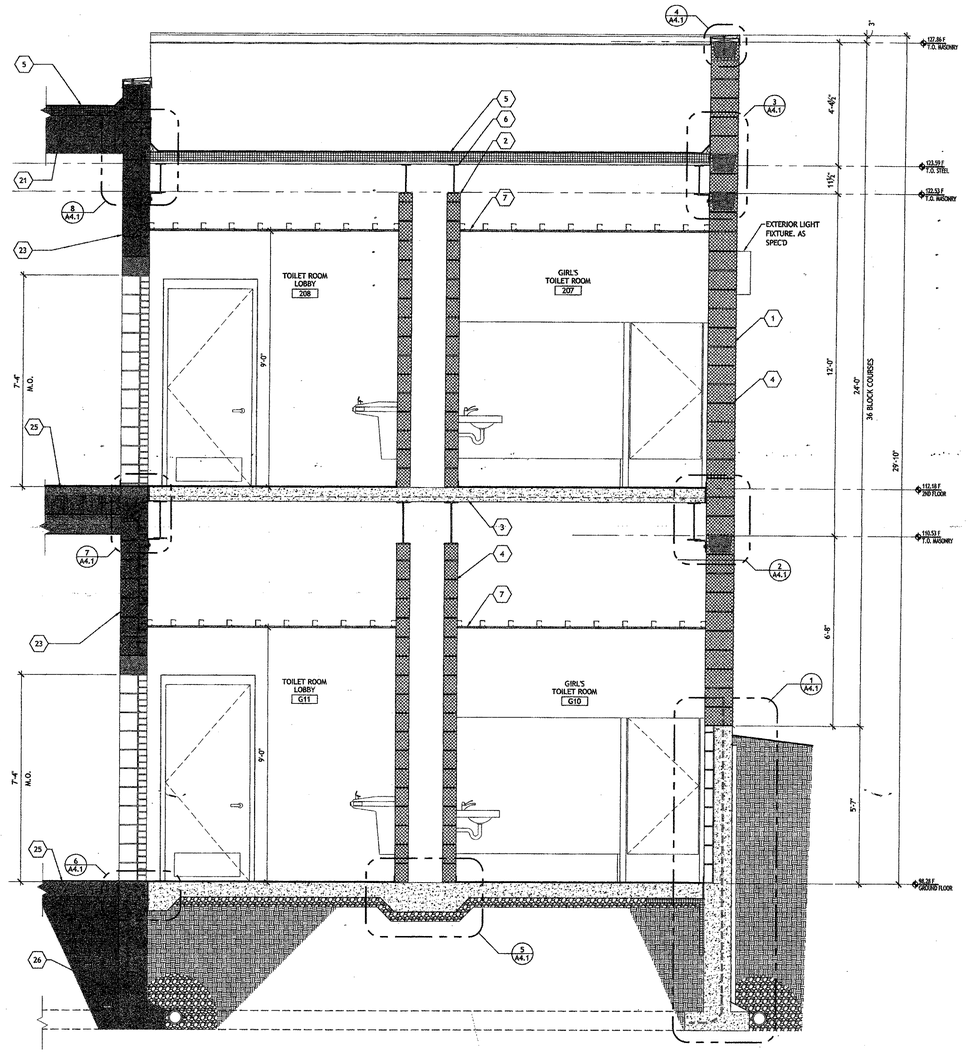

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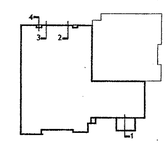

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

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FOX ARCHITECTS

8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
WALL SECTION

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA
ROBERT A. FOX
No. 5607
REGISTERED ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdullahi Ibarow
Structural Engr. Section
Date

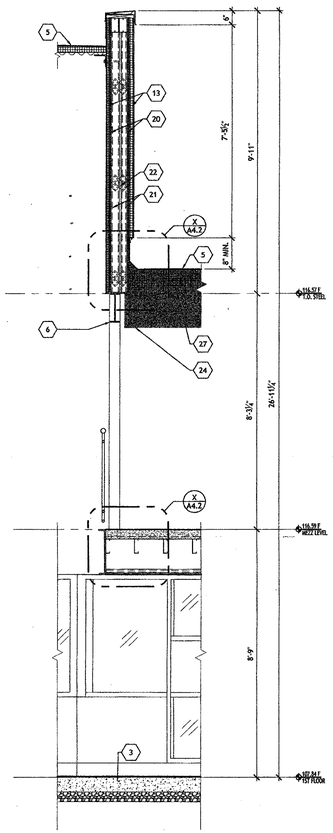
DRAWN BY: FOX
DATE: 02 FEBRUARY 05
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A3.0

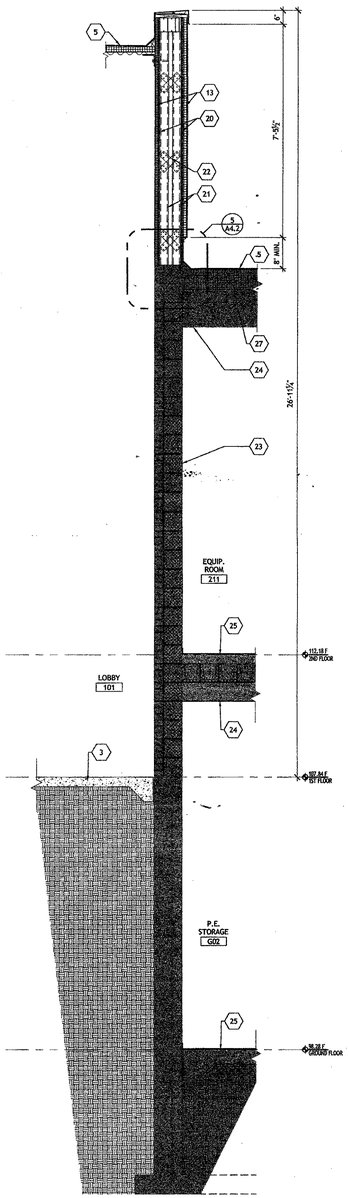
PERMIT/PRICING SET - NOT FOR CONSTRUCTION

KEY NOTES

1. NEW 12" SPLIT-FACE C.M.U. W/ INSUL. CORE
2. 6" CMU. BLOCK
3. NEW CONC. SLAB
4. NEW HORIZONTAL LADDER TIES @16" O.C.
5. NEW EPDM. MEMBRANE
6. NEW STL. BEAM. SEE STRUCT. DWG'S.
7. 5/8" G.W.B.
8. 2 1/2" METAL FRAMING
9. BATT INSULATION
10. NEW EXTERIOR LIGHT FIXTURE. AS SPEC'D
11. NEW CONC. WALK
12. NEW CONC. FOUNDATION WALL
13. E.I.F.S SYSTEM
14. A.C.T. CEILING
15. HOLLOW METAL FRAME
16. NEW 12" C.M.U. W/ INSUL. CORE
17. DOWN SPOUT
18. NEW 8" SPLIT-FACE C.M.U. W/ INSUL. CORE
19. GLASS CURTAIN WALL SYSTEM
20. 3/4" PLYWOOD SHEATHING
21. METAL STUD FRAMING
22. METAL CROSS BRACING
23. EXIST. MASONRY WALL
24. EXIST. STL. STRUCT.
25. EXISTING CONC. SLAB
26. EXIST. FOUNDATION WALL
27. EXIST. ROOF.
28. 2HR RATED-ENCUPSULATED EXISTING FLOOR STRUCTURE - (U.L.-L541)



5 WALL SECTION
SCALE: 1/2" = 1'-0"



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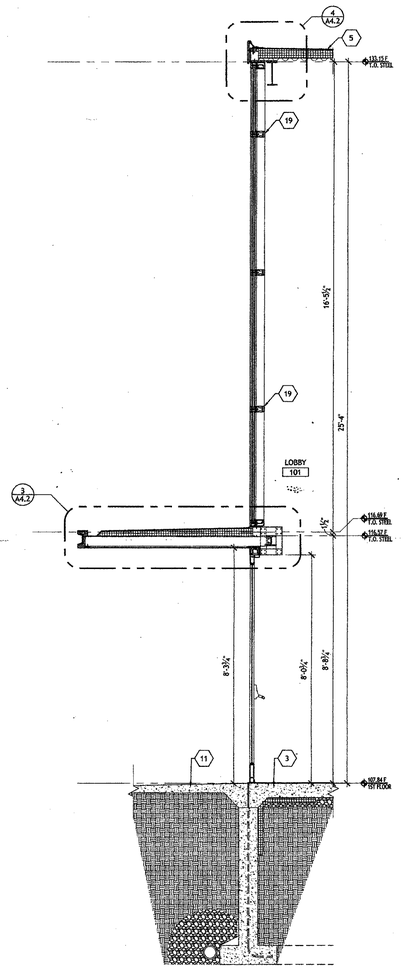

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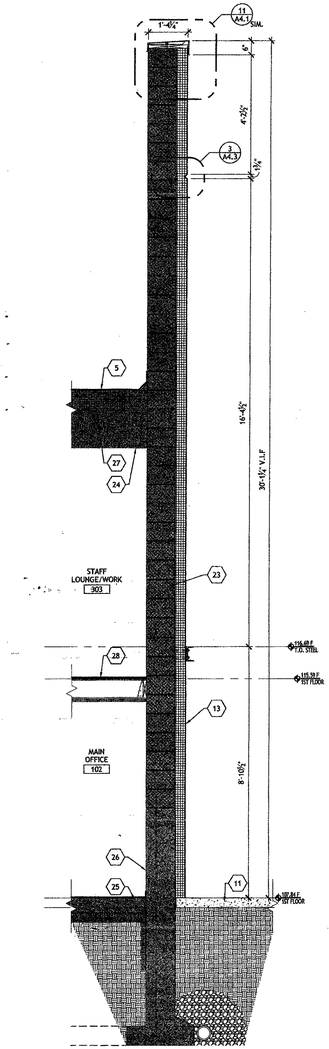

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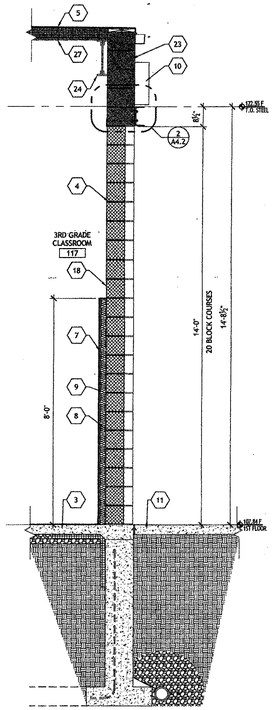
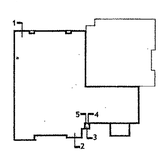


1 WALL SECTION
SCALE: 1/2" = 1'-0"



FOX ARCHITECT

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
WALL SECTION

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA
ROBERT A. FOX
No. 5607
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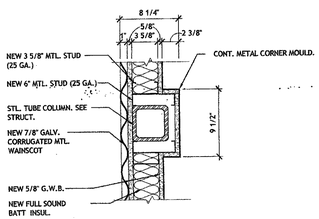
DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdullahi Barrow
Structural Engr. Section
Date

DRAWN BY: FOX
DATE: 02 FEBRUARY 05
FOX PROJECT NO.: 04152.00

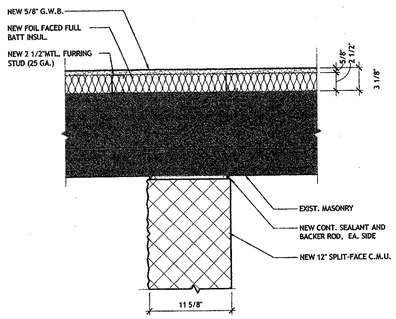
DRAWING NUMBER
A3.1

FOX ARCHITECTS
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PERMIT/PRICING SET - NOT FOR CONSTRUCTION



12 DETAIL
SCALE: 1 1/2" = 1'-0"



9 DETAIL
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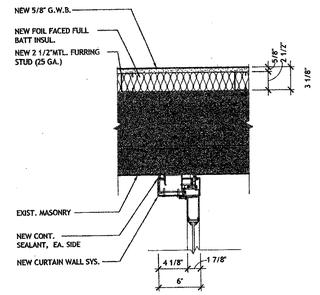

6 DETAIL
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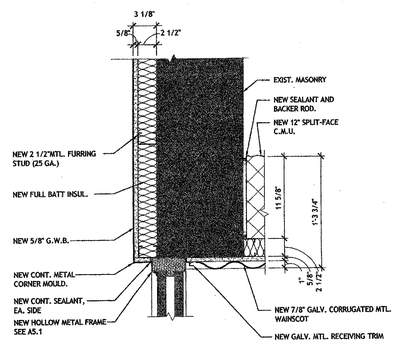

3 DETAIL
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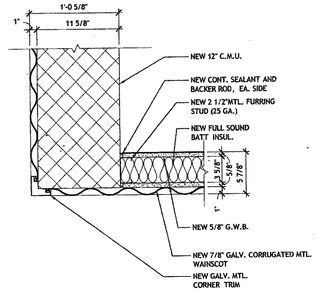

8 DETAIL
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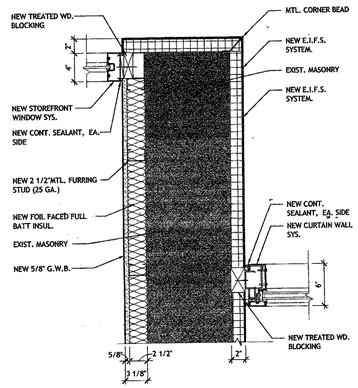

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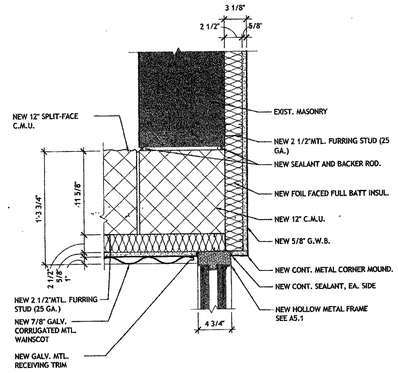

2 DETAIL
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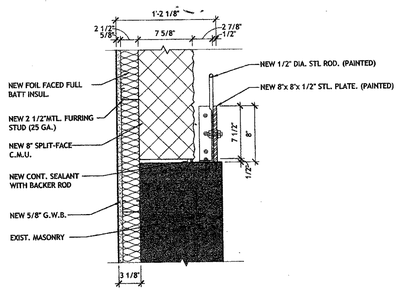

10 DETAIL
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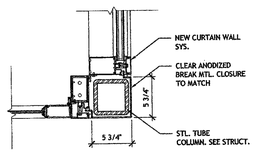

7 DETAIL
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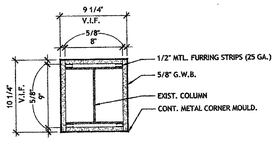

4 DETAIL
SCALE: 1 1/2" = 1'-0"

1 GROUND COLUMN DETAIL
SCALE: 1 1/2" = 1'-0"

FOX ARCHITECTS
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PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
PLAN DETAILS

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 ARCHITECT

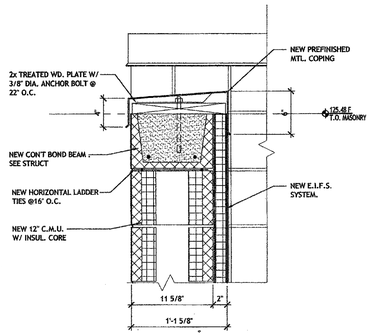
DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdullahi Barrow
Structural Engr. Section
Date

DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

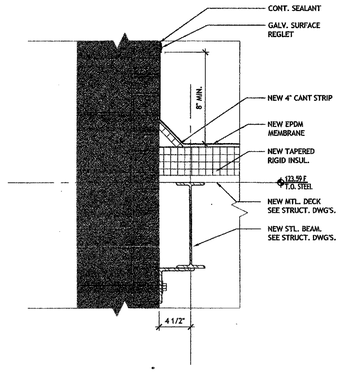
DRAWING NUMBER
A4.0

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

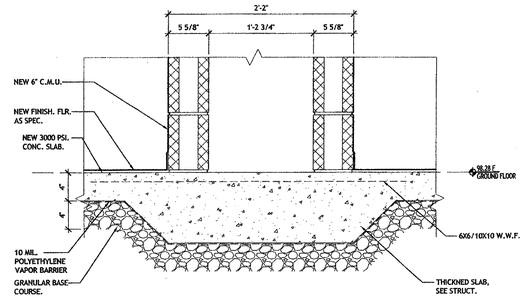
PERMIT/PRICING SET - NOT FOR CONSTRUCTION



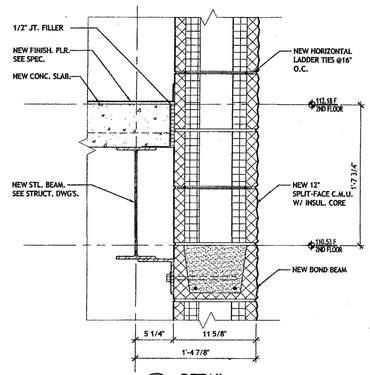
11 DETAIL
SCALE: 1 1/2" = 1'-0"



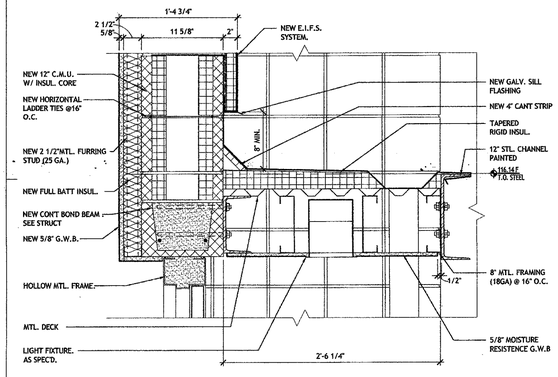
8 DETAIL
SCALE: 1 1/2" = 1'-0"



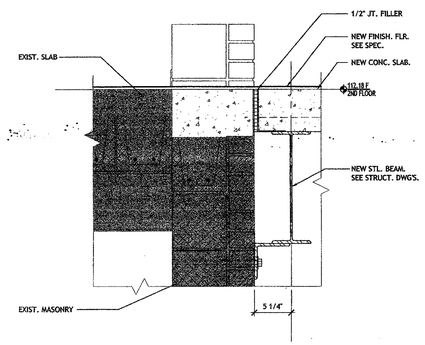
5 DETAIL
SCALE: 1 1/2" = 1'-0"



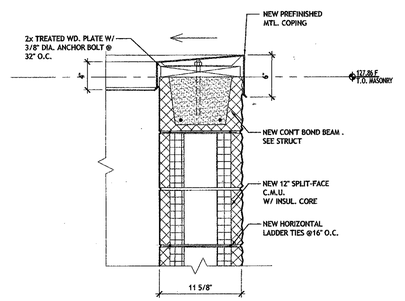
2 DETAIL
SCALE: 1 1/2" = 1'-0"



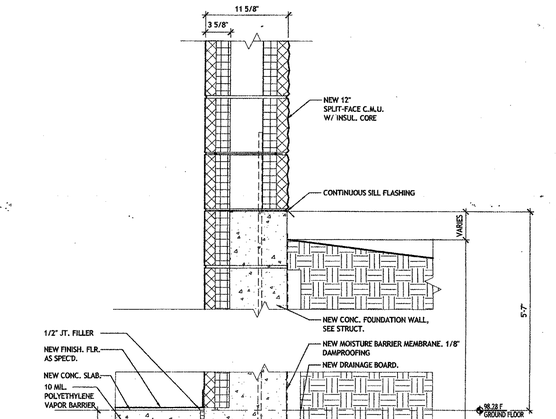
10 DETAIL
SCALE: 1 1/2" = 1'-0"



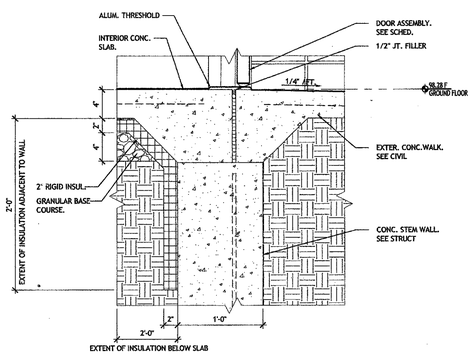
7 DETAIL
SCALE: 1 1/2" = 1'-0"



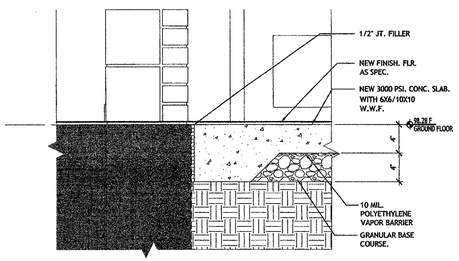
4 DETAIL
SCALE: 1 1/2" = 1'-0"



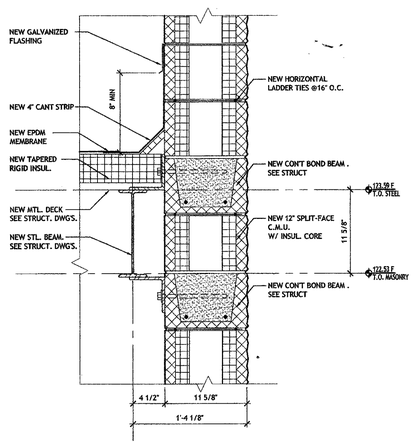
1 GROUND COLUMN DETAIL
SCALE: 1 1/2" = 1'-0"



9 DETAIL
SCALE: 1 1/2" = 1'-0"



6 DETAIL
SCALE: 1 1/2" = 1'-0"



3 DETAIL
SCALE: 1 1/2" = 1'-0"

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

FOX ARCHITECTS

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PROJECT:

TREE OF LIFE - PUBLIC CHARTER SCHOOL

2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:

DETAILS

ISSUED:

PERMIT/PRICING SET	02 FEBRUARY 2005

STAMP:

DISTRICT OF COLUMBIA — ROBERT A. FOX — No. 5607 — ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
APPROVED APPROVAL OF CONSTRUCTION
FURTHER APPROVAL OF CONSTRUCTION

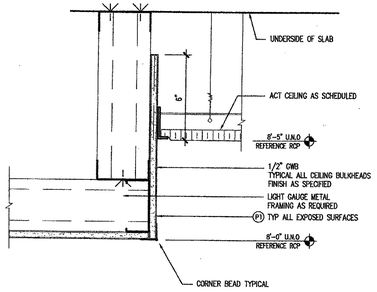
Abdollahi Barrow
Structural Engr. Section
Date

DRAWN BY:	FOX
DATE:	
FOX PROJECT NO.:	04152.00

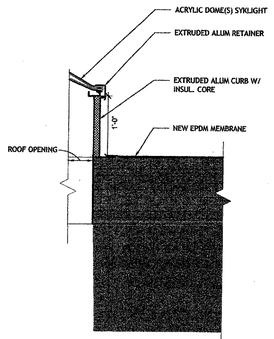
DRAWING NUMBER

A4.1

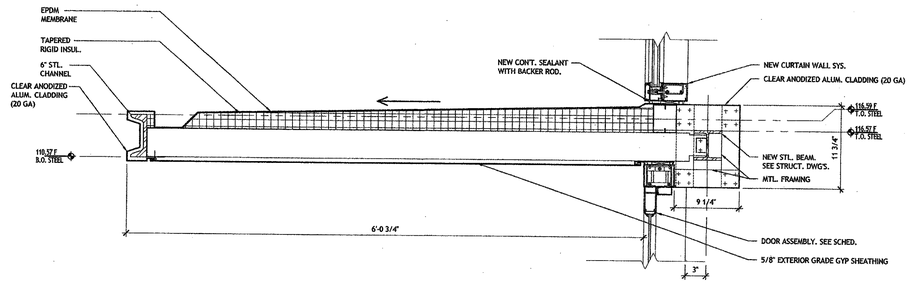
PERMIT/PRICING SET - NOT FOR CONSTRUCTION



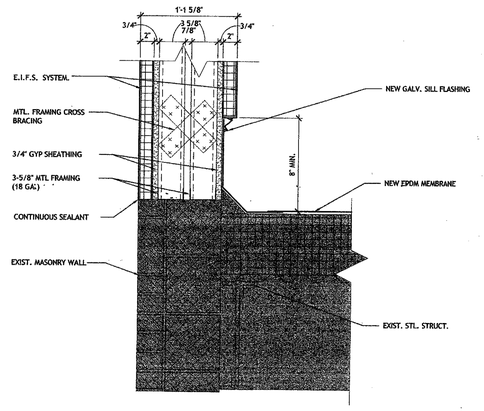
11 CEILING DETAIL @ GWB BULKHEAD / ACT
SCALE: 3" = 1'-0"



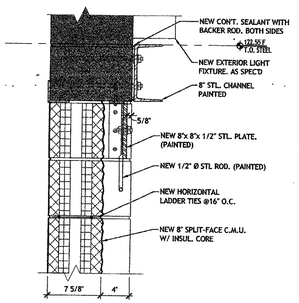
9 SKYLIGHT DETAIL
SCALE: 1 1/2" = 1'-0"



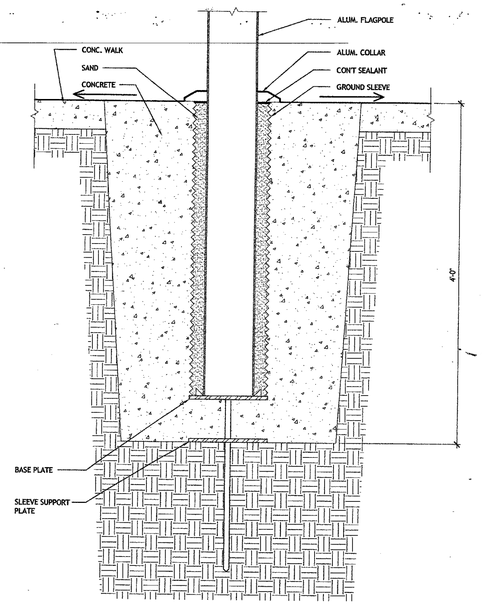
3 DETAIL
SCALE: 1 1/2" = 1'-0"



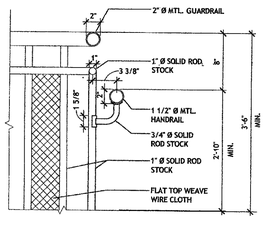
5 DETAIL
SCALE: 1 1/2" = 1'-0"



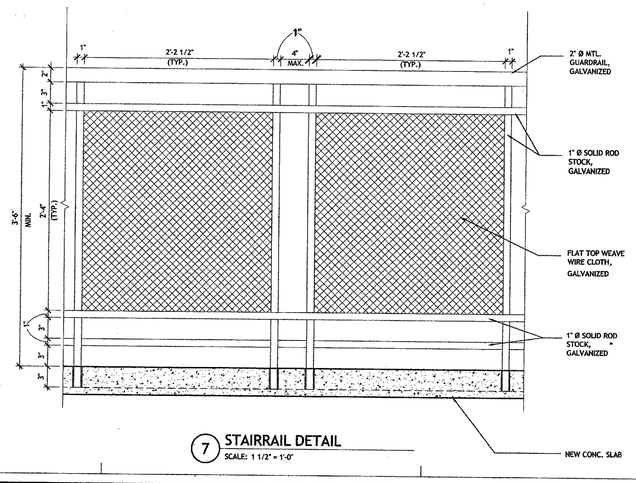
2 DETAIL
SCALE: 1 1/2" = 1'-0"



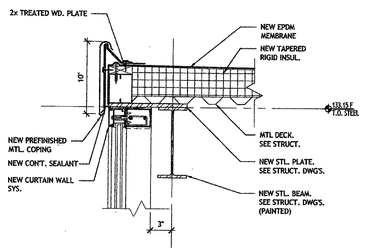
10 FLAGPOLE DETAIL
SCALE: 1 1/2" = 1'-0"



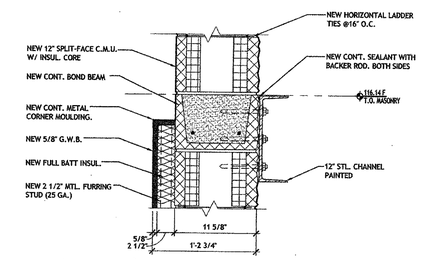
8 HANDRAIL AND BRACKET DETAIL
SCALE: 1 1/2" = 1'-0"



7 STAIRRAIL DETAIL
SCALE: 1 1/2" = 1'-0"



4 DETAIL
SCALE: 1 1/2" = 1'-0"



1 DETAIL
SCALE: 1 1/2" = 1'-0"

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

FOX ARCHITECTS
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PROJECT:
TREE OF LIFE - PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
DETAILS

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 REGISTERED ARCHITECT

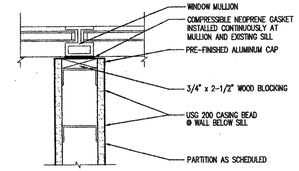
DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO TYPE
FURTHER APPROVAL OF CONSTRUCTION
Abdullahi Barrow
Structural Engr. Section
Date

DRAWN BY: FOX
DATE: 02 FEBRUARY 2005
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A4.2

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

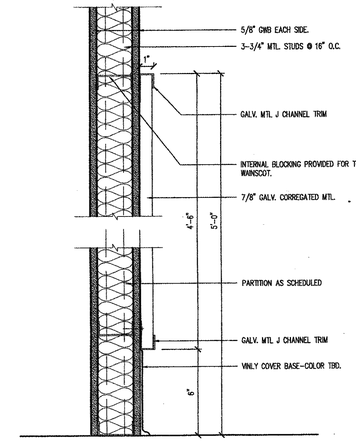


12 CEILING DETAIL @ GWB BULKHEAD / ACT
SCALE: 3" = 1'-0"

9 SKYLIGHT DETAIL
SCALE: 1 1/2" = 1'-0"

6 DETAIL
SCALE: 1 1/2" = 1'-0"

3 WALL AT MULLION DETAIL
SCALE: 3" = 1'-0"

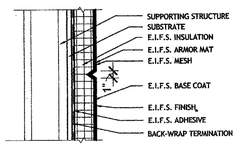


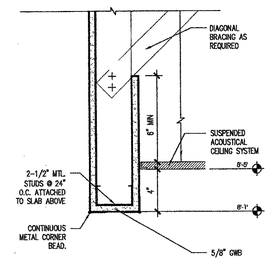
11 HANDRAIL AND BRACKET DETAIL
SCALE: 1 1/2" = 1'-0"

8 HANDRAIL AND BRACKET DETAIL
SCALE: 1 1/2" = 1'-0"

5 DETAIL
SCALE: 1 1/2" = 1'-0"

2 WANESCOT IN CORRIDOR TYPICAL
SCALE: 3" = 1'-0"





10 FLAGPOLE DETAIL
SCALE: 1 1/2" = 1'-0"

7 STAIRRAIL DETAIL
SCALE: 1 1/2" = 1'-0"

4 DETAIL
SCALE: 1 1/2" = 1'-0"

1 CEILING DETAIL @ GWB/ACT TRANSITION
SCALE: 3" = 1'-0"

FOX ARCHITECTS

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PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
DETAILS

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 REGISTERED ARCHITECT

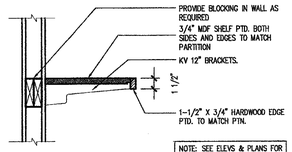
DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION

Abdullahi Barrow
Structural Engr. Section
Date

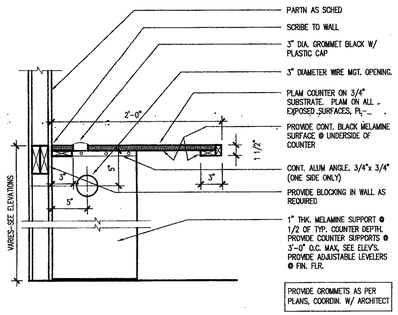
DRAWN BY: FOX
DATE: 02 FEBRUARY 2005
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A4.3

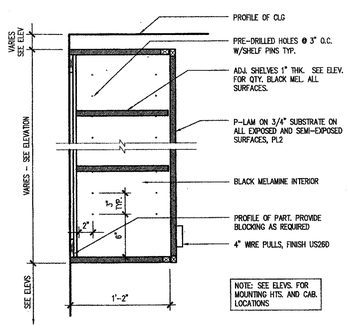
PERMIT/PRICING SET - NOT FOR CONSTRUCTION



8 SEC. @ TYP. UPPER CABS.
SCALE: 1 1/2" = 1'-0"

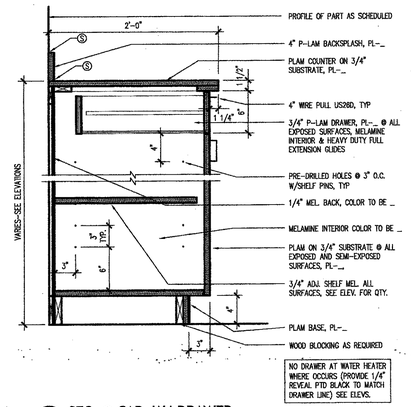


7 DET. @ COUNTER TOP ROOM #306
SCALE: 1 1/2" = 1'-0"

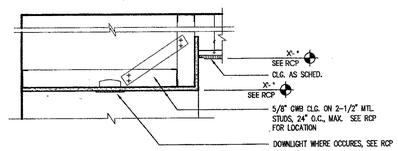


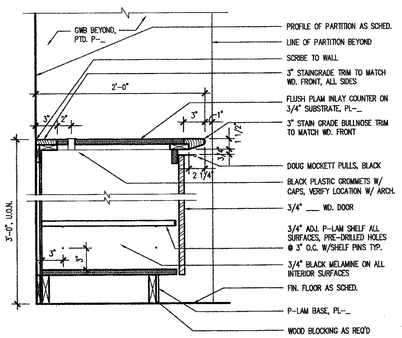
6 SEC. @ TYP. UPPER CABS.
SCALE: 1 1/2" = 1'-0"

9 OFFICE COUNTER
SCALE: 1 1/2" = 1'-0"



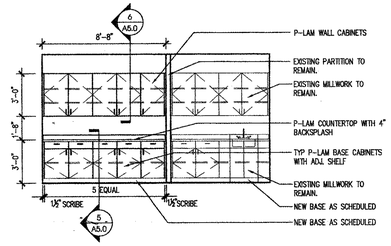
5 SEC. @ CAB. W/ DRAWER
SCALE: 1 1/2" = 1'-0"



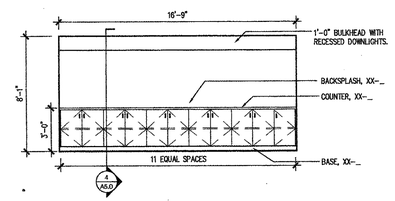


4 SEC. @ CREDENZA
SCALE: 1 1/2" = 1'-0"

3 DETAIL
SCALE: 1/4" = 1'-0"



2 STAFF LOUNGE/WORK #303 ELEVATION
SCALE: 1/4" = 1'-0"



1 CONFERENCE ROOM #307 ELEVATION
SCALE: 1/4" = 1'-0"

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

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PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
MILLWORK
ELEVATIONS AND SECTIONS

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

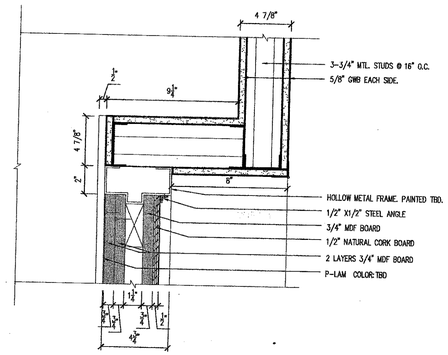
STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 REGISTERED ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE FURTHER APPROVAL OF CONSTRUCTION
Abdullahi Barrow
Structural Engr. Section
Date

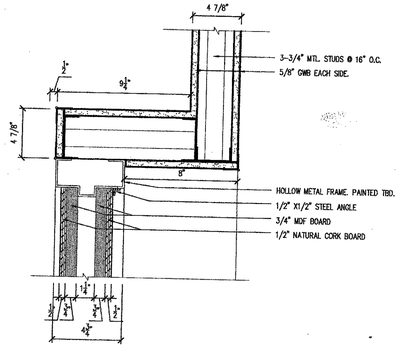
DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A5.0

PERMIT/PRICING SET - NOT FOR CONSTRUCTION



9 TYPICAL HOLLOW-METAL HEAD DETAIL AT PARTITION
SCALE: 3" = 1'-0"



6 TYPICAL HOLLOW-METAL HEAD DETAIL
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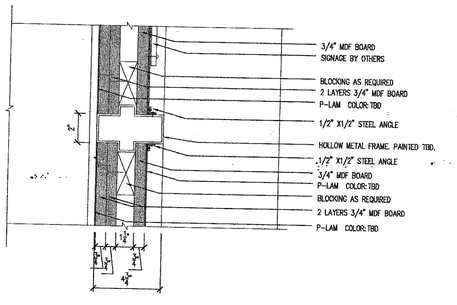
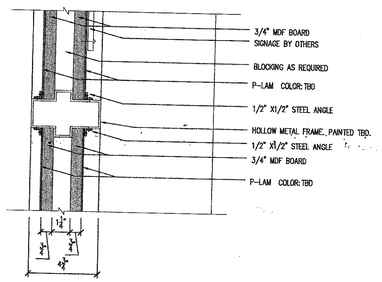


8 TYPICAL HOLLOW-METAL MULLION DETAIL AT PARTITION
SCALE: 3" = 1'-0"



5 TYPICAL HOLLOW-METAL MULLION DETAIL
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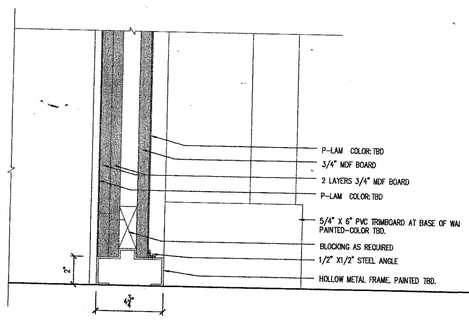
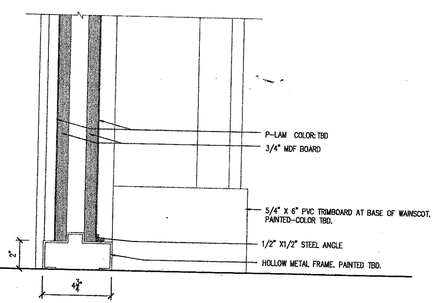
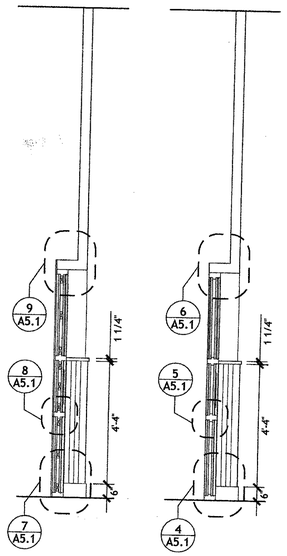


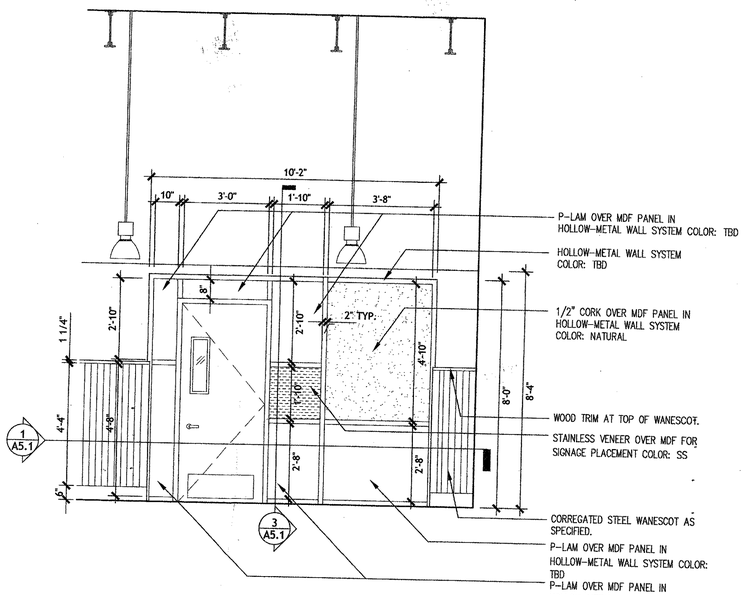
7 TYPICAL HOLLOW-METAL SILL DETAIL AT PARTITION
SCALE: 3" = 1'-0"



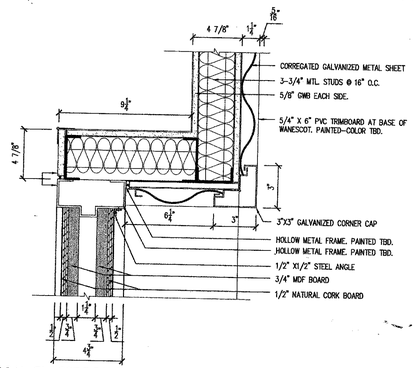
4 TYPICAL HOLLOW-METAL SILL DETAIL
SCALE: 3" = 1'-0"



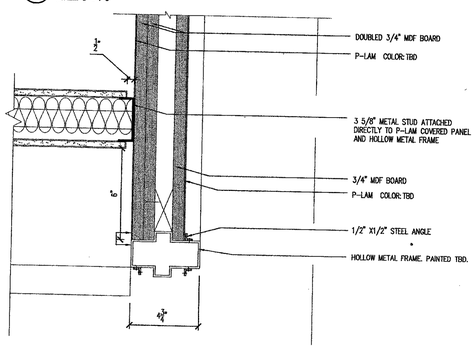
5 TYPICAL CLASSROOM ENTRY SECTIONS
SCALE: 1/2" = 1'-0"



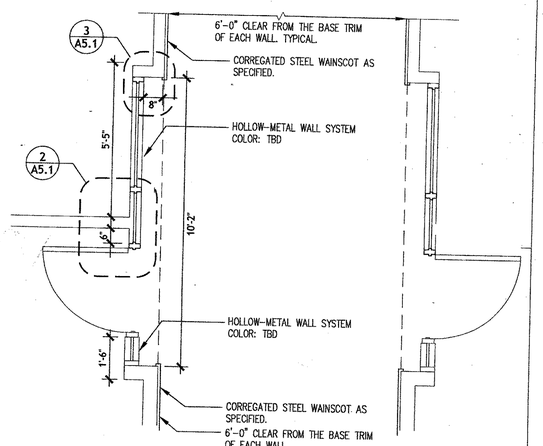
4 TYPICAL CLASSROOM ENTRY ELEVATION
SCALE: 1/2" = 1'-0"



3 TYPICAL CLASSROOM ENTRY PLAN
SCALE: 3" = 1'-0"



2 TYPICAL CLASSROOM ENTRY PLAN
SCALE: 3" = 1'-0"



1 TYPICAL CLASSROOM ENTRY PLAN
SCALE: 1/2" = 1'-0"

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

FOX ARCHITECTS
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
TYPICAL HOLLOW-METAL CLASSROOM ENTRY ELEVATIONS AND SECTIONS

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

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DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 REGISTERED ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
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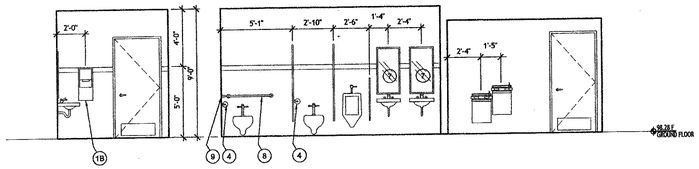
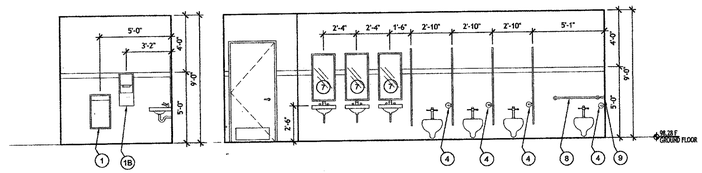
Abdullahi Barrow
Structural Engr. Section

DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

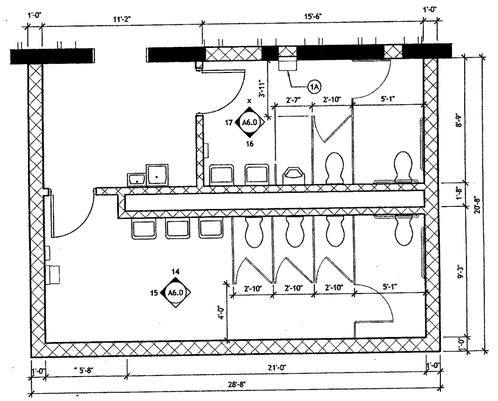
DRAWING NUMBER
A5.1



17 BOY'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



15 GIRL'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



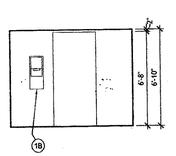
13 ENLARGED RESTROOM PLAN
SCALE: 1/4" = 1'-0"

TOILET ROOM SCHEDULE:

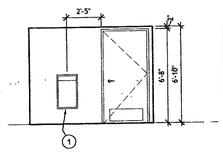
1	Surface mounted Trash Can	Bradley # 334
1A	Recessed Trash Can	Bobrick # 334-11
1B	Paper Towel Dispenser	Bobrick # B-262
2	Contura Sanitary Napkin Dispenser	Bobrick # B-2800
3	Contura Toilet Seat Cover Dispenser	Bobrick # B-221
4	Toilet Paper Dispenser	Bobrick # B-2840
5	Sanitary Napkin Disposal	Bobrick # B-254
6	Lav. Mounted Soap Dispenser - each bowl	Bobrick # B-8226
7	Mirror	-
8	Grab Bar 36"	Bobrick # 5806
9	Grab Bar 42"	Bobrick # 5806

NOTES:
1 SEE DRAWINGS FOR LOCATION & MOUNTING HEIGHTS (9/A4.00).
2 ALL TOILET ACCESSORIES TO BE ADA CMPLIANT W/BRUSHED S.S. OR SATIN A.O.N.
3 ALL URINALS, TOILETS AND FAUCETS TO BE RE-USED EXCEPT AS NOTED ON PLAN - SEE PLUMBING.
4 PROVIDE WATER RESISTANT GWB (GREEN BOARD) BEHIND CERAMIC TILE, TYP.
5 PROVIDE WATERPROOF MEMBRANE (CLEAVAGE MEMBRANE) UNDER FLOOR.

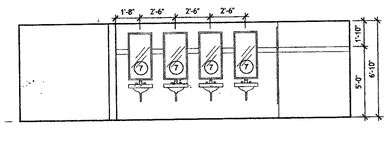
(2) & (4) ARE TO BE INSTALLED ONLY IN WOMEN'S ROOM.



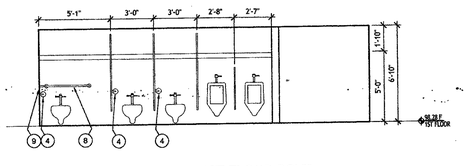
12A 1ST FLOOR BOY'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



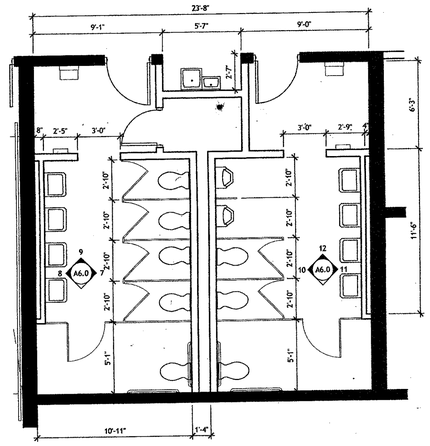
12 1ST FLOOR BOY'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



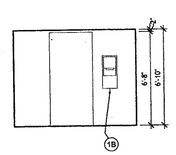
11 1ST FLOOR BOY'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



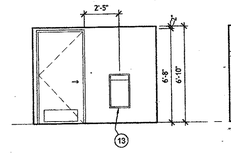
10 1ST FLOOR BOY'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



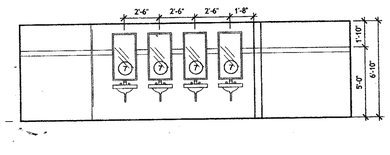
6 ENLARGED 1ST FLOOR RESTROOM PLAN
SCALE: 1/4" = 1'-0"



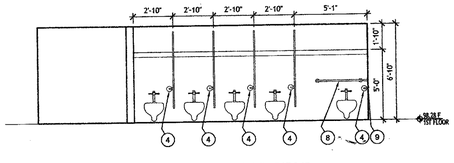
9A 1ST FLOOR GIRL'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



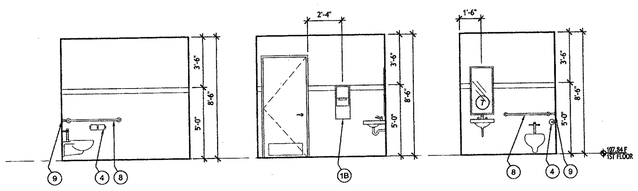
9 1ST FLOOR GIRL'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



8 1ST FLOOR GIRL'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



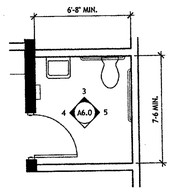
7 1ST FLOOR GIRL'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



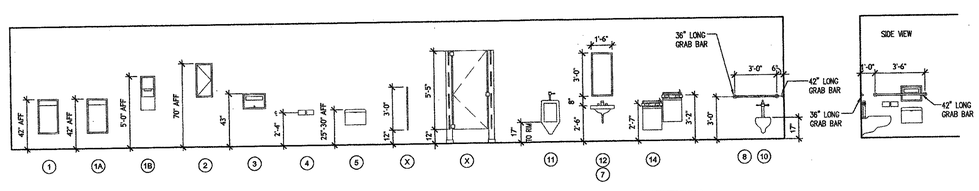
5 TYPICAL RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"

4 TYPICAL RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"

3 TYPICAL RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



2 ENLARGED TYPICAL RESTROOM PLAN
SCALE: 1/4" = 1'-0"



1 TYPICAL FIXTURE HEIGHTS
SCALE: 1/4" = 1'-0"

FIXTURES AND ACCESSORIES ARE INDICATED FOR REFERENCE ONLY. EXISTING ITEMS ARE SHOWN IN PLANS AND SHOULD BE COORDINATED BY GC.

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FOX ARCHITECTS
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
RESTROOM
PLANS AND ELEVATIONS

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

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DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 ARCHITECT

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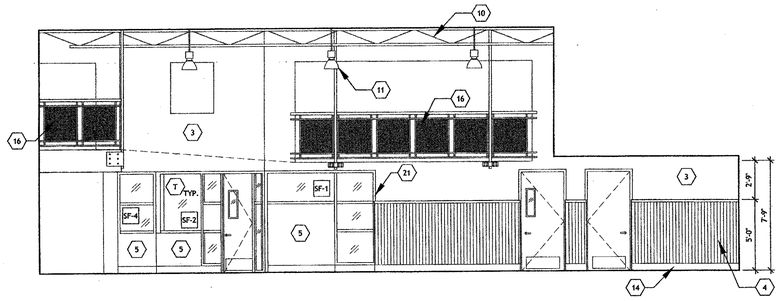
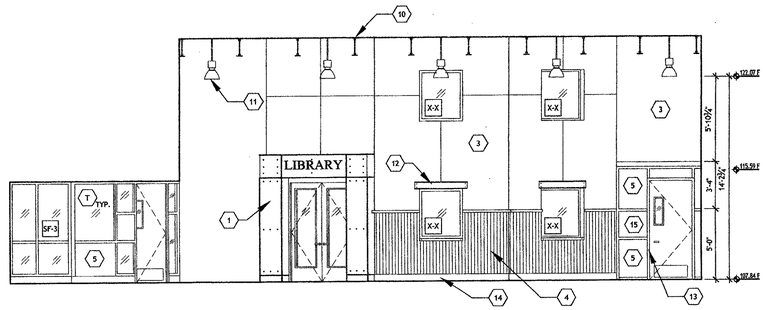


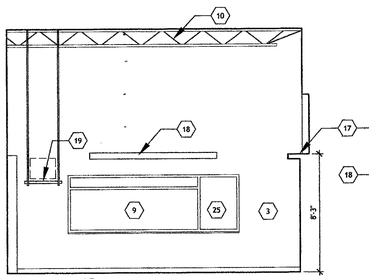
11 MAIN OFFICE CORRIDOR ELEVATION
SCALE: 1/4" = 1'-0"



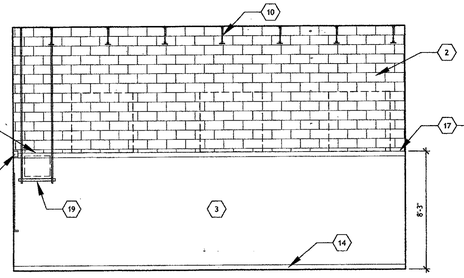
10 LIBRARY CORRIDOR ELEVATION
SCALE: 1/4" = 1'-0"

ELEVATION NOTES

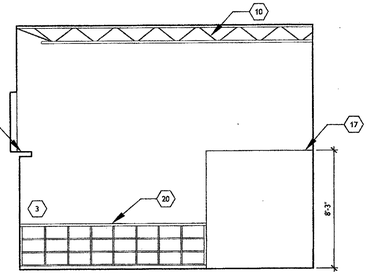
1. PAINTED MDF
2. EXISTING CMU. BLOCK (PAINTED)
3. GWB (PAINTED)
4. CORRUGATED MTL.
5. P-LAM WALL PANEL (TYP.)
6. LOCKERS (TYP.)
7. ACOUSTICAL CEILING TILE
8. SKYLIGHT (TYP.)
9. MARKER BOARD (TYP.)
10. EXISTING STEEL STRUCTURE (PAINTED)
11. 12" DECORATIVE PENDANT FIXTURE (TYP.)
12. DECORATIVE METAL CHANNEL
13. HOLLOW METAL FRAME: (SEE 1/A5.1)
14. WAINSCOT DETAIL
15. SIGNAGE PANEL
16. WIRE MESH PANEL GUARDRAIL
17. OVERHEAD SHELF
18. PULL-DOWN PROJECTOR SCREEN
19. TV BRACKET
20. BUILT-IN MILLWORK STORAGE UNITS
21. STOREFRONT SYSTEM
22. CURTAIN-WALL SYSTEM
23. ACCESS STAIR: (SEE 1/A8.0)
24. VERTICAL LIFT: (SEE 1/A8.0)
25. CORK TACK BOARD



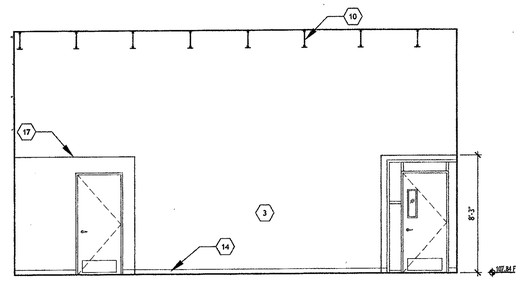
TYP. PRESCHOOL & KINDERGARTEN CLASSROOM ELEVATION
9 SCALE: 1/4" = 1'-0"



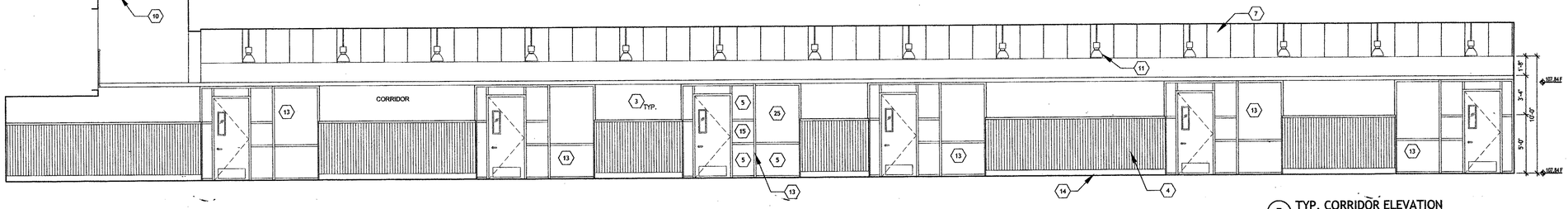
TYP. PRESCHOOL & KINDERGARTEN CLASSROOM ELEVATION
8 SCALE: 1/4" = 1'-0"



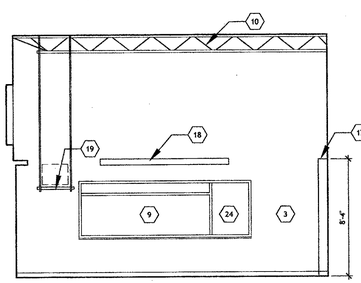
TYP. PRESCHOOL & KINDERGARTEN CLASSROOM ELEVATION
7 SCALE: 1/4" = 1'-0"



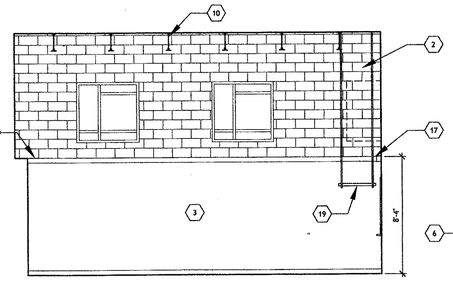
TYP. PRESCHOOL & KINDERGARTEN CLASSROOM ELEVATION
6 SCALE: 1/4" = 1'-0"



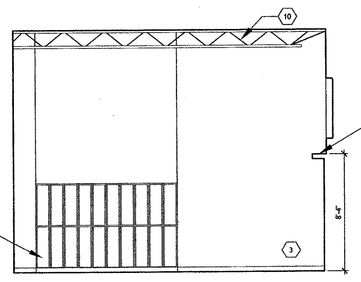
5 TYP. CORRIDOR ELEVATION
SCALE: 1/4" = 1'-0"



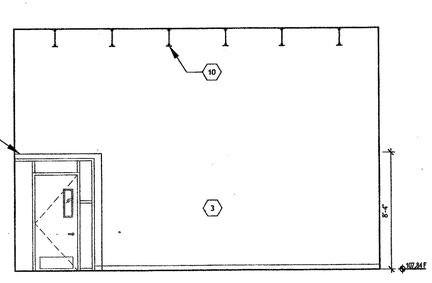
TYP. ELEMENTARY CLASSROOM ELEVATION
4 SCALE: 1/4" = 1'-0"



TYP. ELEMENTARY CLASSROOM ELEVATION
3 SCALE: 1/4" = 1'-0"



TYP. ELEMENTARY CLASSROOM ELEVATION
2 SCALE: 1/4" = 1'-0"



TYP. ELEMENTARY CLASSROOM ELEVATION
1 SCALE: 1/4" = 1'-0"

ARCHITECT
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
INTERIOR
ELEVATIONS

ISSUED:
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DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
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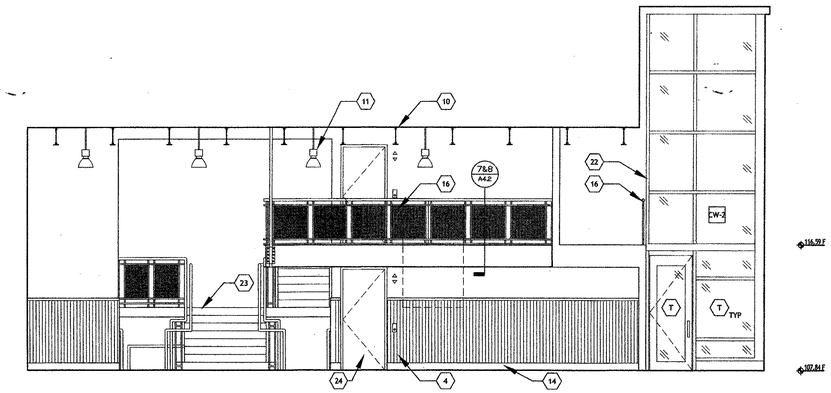
ELEVATION NOTES

1. PAINTED MDF
2. EXISTING CMU. BLOCK (PAINTED)
3. GWB (PAINTED)
4. CORRUGATED MTL.
5. P-LAM WALL PANEL (TYP.)
6. LOCKERS (TYP.)
7. ACOUSTICAL CEILING TILE
8. SKYLIGHT (TYP.)
9. MARKER BOARD (TYP.)
10. EXISTING STEEL STRUCTURE (PAINTED)
11. 12" DECORATIVE PENDANT FIXTURE (TYP.)
12. DECORATIVE METAL CHANNEL
13. HOLLOW METAL FRAME: (SEE 1/A5.1)
14. WAINSCOT DETAIL
15. SIGNAGE PANEL
16. WIRE MESH PANEL GUARDRAIL
17. OVERHEAD SHELF:
18. PULL-DOWN PROJECTOR SCREEN
19. TV BRACKET:
20. BUILT-IN MILLWORK STORAGE UNITS
21. STOREFRONT SYSTEM
22. CURTAIN-WALL SYSTEM
23. ACCESS STAIR: (SEE 1/A8.0)
24. VERTICAL LIFT: (SEE 1/A8.0)

T. TEMPERED GLAZING



1 CENTRAL STAIRWAY/ ELEVATOR ELEVATION
SCALE: 1/4" = 1'-0"

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PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
INTERIOR
ELEVATIONS

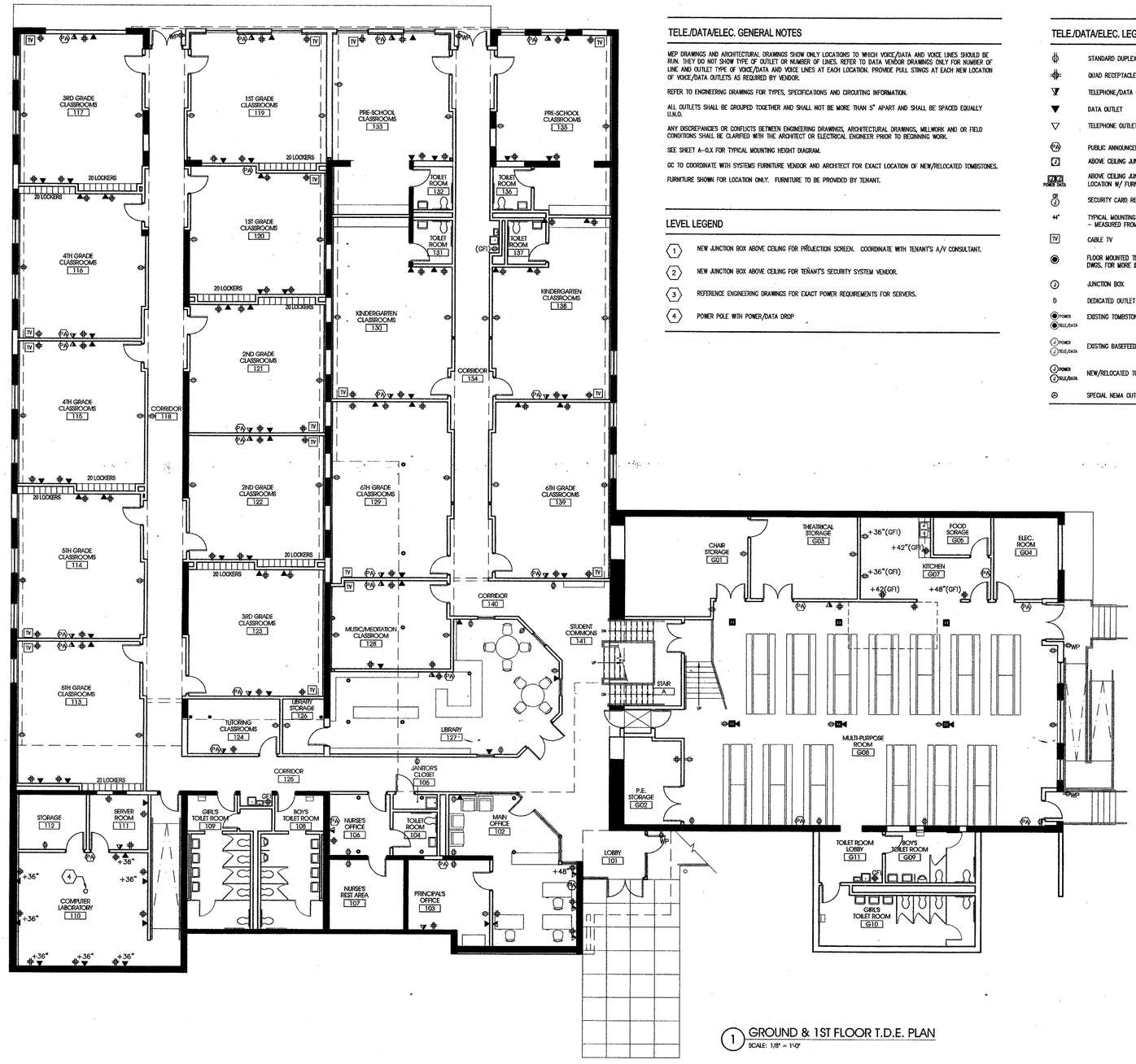
ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT J. FOX No. 5607 REGISTERED ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdullah Barrow
Structural Engs. Section
Date

DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A6.2



1 GROUND & 1ST FLOOR T.D.E. PLAN
SCALE: 1/8" = 1'-0"

TELE./DATA/ELEC. GENERAL NOTES

MEP DRAWINGS AND ARCHITECTURAL DRAWINGS SHOW ONLY LOCATIONS TO WHICH VOICE/DATA AND VOICE LINES SHOULD BE RUN. THEY DO NOT SHOW TYPE OF OUTLET OR NUMBER OF LINES. REFER TO DATA VENDOR DRAWINGS ONLY FOR NUMBER OF LINE AND OUTLET TYPE OF VOICE/DATA AND VOICE LINES AT EACH LOCATION. PROVIDE PULL STINGS AT EACH NEW LOCATION OF VOICE/DATA OUTLETS AS REQUIRED BY VENDOR.

REFER TO ENGINEERING DRAWINGS FOR TYPES, SPECIFICATIONS AND CIRCUITING INFORMATION.

ALL OUTLETS SHALL BE GROUPED TOGETHER AND SHALL NOT BE MORE THAN 5" APART AND SHALL BE SPACED EQUALLY U.N.O.

ANY DISCREPANCIES OR CONFLICTS BETWEEN ENGINEERING DRAWINGS, ARCHITECTURAL DRAWINGS, MILLWORK AND OR FIELD CONDITIONS SHALL BE CLARIFIED WITH THE ARCHITECT OR ELECTRICAL ENGINEER PRIOR TO BEGINNING WORK.

SEE SHEET A-0.X FOR TYPICAL MOUNTING HEIGHT DIAGRAM.

GC TO COORDINATE WITH SYSTEMS FURNITURE VENDOR AND ARCHITECT FOR EXACT LOCATION OF NEW/RELOCATED TOMBSTONES.

FURNITURE SHOWN FOR LOCATION ONLY. FURNITURE TO BE PROVIDED BY TENANT.

LEVEL LEGEND

(1) NEW JUNCTION BOX ABOVE CEILING FOR PROJECTION SCREEN. COORDINATE WITH TENANT'S A/V CONSULTANT.

(2) NEW JUNCTION BOX ABOVE CEILING FOR TENANT'S SECURITY SYSTEM VENDOR.

(3) REFERENCE ENGINEERING DRAWINGS FOR EXACT POWER REQUIREMENTS FOR SERVERS.

(4) POWER POLE WITH POWER/DATA DROP

TELE./DATA/ELEC. LEGEND

	STANDARD DUPLEX OUTLET		EXISTING DUPLEX OUTLET TO REMAIN
	QUAD RECEPTACLE		EXISTING QUAD RECEPTACLE TO REMAIN
	TELEPHONE/DATA OUTLET (SINGLE GANG BOX)		EXISTING TELEPHONE/DATA OUTLET TO REMAIN
	DATA OUTLET		EXISTING DATA OUTLET TO REMAIN
	TELEPHONE OUTLET		EXISTING TELEPHONE OUTLET TO REMAIN
PA	PUBLIC ANNOUNCEMENT SYSTEM		
J	ABOVE CEILING JUNCTION BOX		
J P/D POWER DATA	ABOVE CEILING JUNCTION BOX FOR SYSTEMS FURNITURE. REFERENCE ENGINEERING DRAWINGS COORDINATE LOCATION W/ FURNITURE VENDOR. POWER POLE BY FURNITURE VENDOR		
SR	SECURITY CARD READER. REFERENCE ENGINEERING DRAWINGS		
44"	TYPICAL MOUNTING HEIGHT: - MEASURED FROM FINISH FLOOR TO BOTTOM OF RECEPTACLE		
TV	CABLE TV		
	FLOOR MOUNTED TDE RECEPTACLE, LOCATE IN CENTER OF ROOM. REVIEW IN FIELD W/ ARCHITECT. SEE MEP DWGS. FOR MORE INFORMATION.		
J	JUNCTION BOX		
D	DEDICATED OUTLET		
POWER / TELE./DATA	EXISTING TOMBSTONES FOR SYSTEMS FURNITURE (2ND & 3RD FLOORS)		
J POWER / J TELE./DATA	EXISTING BASEFEED FOR SYSTEMS FURNITURE (1ST FLOOR)		
J POWER / J TELE./DATA	NEW/RELOCATED TOMBSTONE FOR SYSTEMS FURNITURE (2ND & 3RD FLOORS)		
	SPECIAL NEMA OUTLET. REFERENCE ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION		

TELE./DATA/ELEC. LEGEND

	DESCRIPTION	MANUF.	MODEL	NOTES
1	REFRIGERATOR	--	--	--
2	SINK DISPOSER	--	--	--
3	ADA SINK	--	--	--
4	MICROWAVE	--	--	--
5	ADA DISHWASHER	--	--	--
6	ADA FAUCET	--	--	--
7	WATER COOLER	--	--	PROVIDED BY TENANT GC TO PROVIDE WATERLINE
8	COFFEE MAKER	--	--	PROVIDED BY TENANT GC TO PROVIDE WATERLINE
10	EXISTING SINK	--	--	EXISTING TO REMAIN

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PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
GROUND & 1ST FLOOR T.D.E. PLAN

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdullahi Bacrow
Structural Engr. Section

DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A7.0

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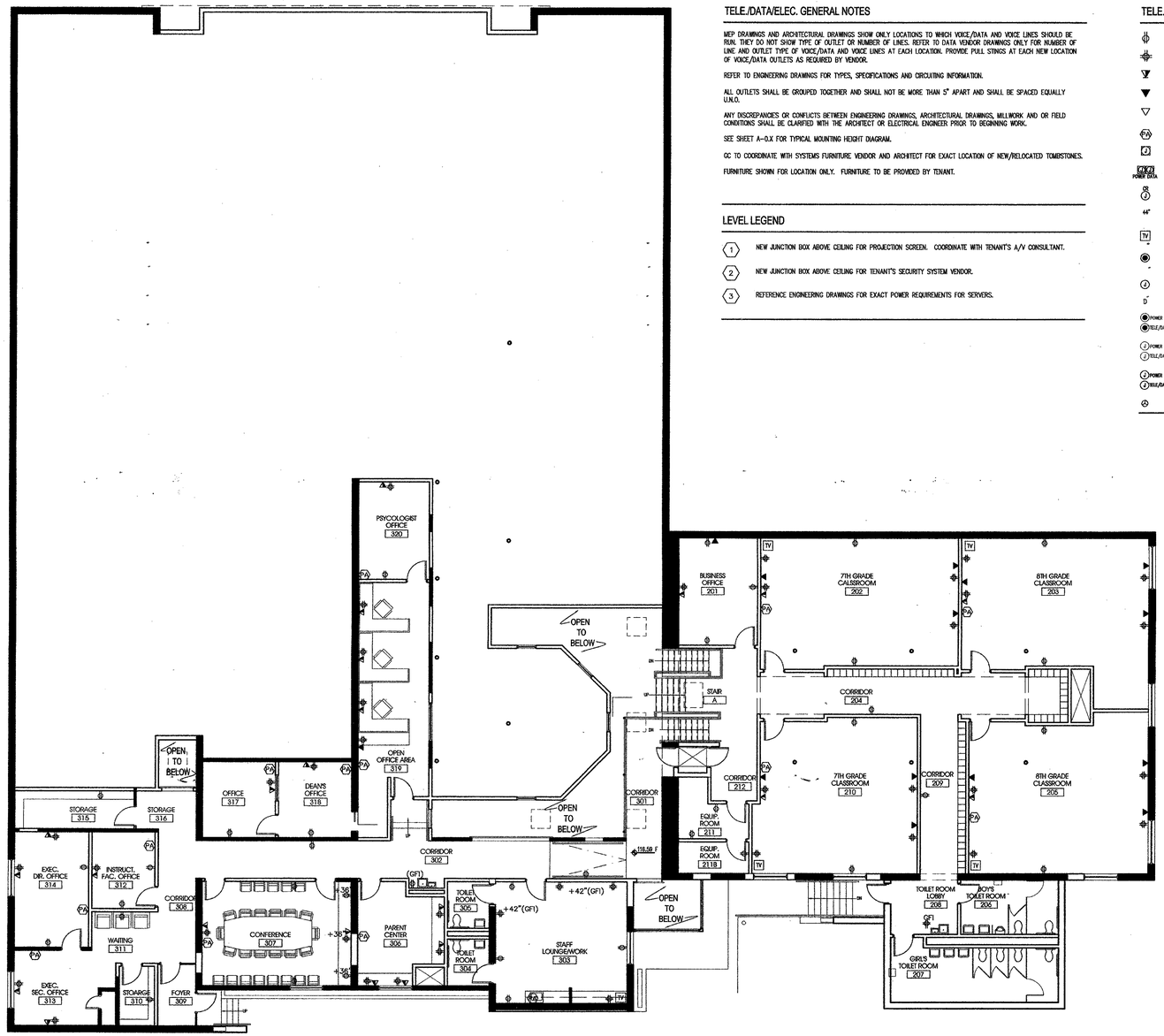

1 2ND & MEZZANINE FLOOR T.D.E. PLAN
SCALE: 1/8" = 1'-0"

TELE./DATA/ELEC. GENERAL NOTES

MEP DRAWINGS AND ARCHITECTURAL DRAWINGS SHOW ONLY LOCATIONS TO WHICH VOICE/DATA AND VOICE LINES SHOULD BE RUN. THEY DO NOT SHOW TYPE OF OUTLET OR NUMBER OF LINES. REFER TO DATA VENDOR DRAWINGS ONLY FOR NUMBER OF LINE AND OUTLET TYPE OF VOICE/DATA AND VOICE LINES AT EACH LOCATION. PROVIDE PULL STINGS AT EACH NEW LOCATION OF VOICE/DATA OUTLETS AS REQUIRED BY VENDOR.

REFER TO ENGINEERING DRAWINGS FOR TYPES, SPECIFICATIONS AND CIRCUITING INFORMATION.

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SEE SHEET A-0.X FOR TYPICAL MOUNTING HEIGHT DIAGRAM.

GC TO COORDINATE WITH SYSTEMS FURNITURE VENDOR AND ARCHITECT FOR EXACT LOCATION OF NEW/RELOCATED TOMBSTONES.

FURNITURE SHOWN FOR LOCATION ONLY. FURNITURE TO BE PROVIDED BY TENANT.

LEVEL LEGEND

1. NEW JUNCTION BOX ABOVE CEILING FOR PROJECTION SCREEN. COORDINATE WITH TENANT'S A/V CONSULTANT.
2. NEW JUNCTION BOX ABOVE CEILING FOR TENANT'S SECURITY SYSTEM VENDOR.
3. REFERENCE ENGINEERING DRAWINGS FOR EXACT POWER REQUIREMENTS FOR SERVERS.

TELE./DATA/ELEC. LEGEND

⊕	STANDARD DUPLEX OUTLET	⊕	EXISTING DUPLEX OUTLET TO REMAIN
⊕	QUAD RECEPTACLE	⊕	EXISTING QUAD RECEPTACLE TO REMAIN
⊻	TELEPHONE/DATA OUTLET (SINGLE GANG BOX)	⊻	EXISTING TELEPHONE/DATA OUTLET TO REMAIN
▼	DATA OUTLET	▼	EXISTING DATA OUTLET TO REMAIN
▽	TELEPHONE OUTLET	▽	EXISTING TELEPHONE OUTLET TO REMAIN
PA	PUBLIC ANNOUNCEMENT SYSTEM		
J	ABOVE CEILING JUNCTION BOX		
J POWER DATA	ABOVE CEILING JUNCTION BOX FOR SYSTEMS FURNITURE. REFERENCE ENGINEERING DRAWINGS COORDINATE LOCATION W/ FURNITURE VENDOR. POWER POLE BY FURNITURE VENDOR		
SR	SECURITY CARD READER. REFERENCE ENGINEERING DRAWINGS		
44"	TYPICAL MOUNTING HEIGHT: – MEASURED FROM FINISH FLOOR TO BOTTOM OF RECEPTACLE		
TV	CABLE TV		
	FLOOR MOUNTED TDE RECEPTACLE, LOCATE IN CENTER OF ROOM. REVIEW IN FIELD W/ ARCHITECT. SEE MEP DWGS. FOR MORE INFORMATION.		
J	JUNCTION BOX		
D	DEDICATED OUTLET		
POWER / TELE./DATA	EXISTING TOMBSTONES FOR SYSTEMS FURNITURE (2ND & 3RD FLOORS)		
J POWER / J TELE./DATA	EXISTING BASEFEED FOR SYSTEMS FURNITURE (1ST FLOOR)		
J POWER / J TELE./DATA	NEW/RELOCATED TOMBSTONE FOR SYSTEMS FURNITURE (2ND & 3RD FLOORS)		
	SPECIAL NEMA OUTLET. REFERENCE ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION		

TELE./DATA/ELEC. LEGEND

	DESCRIPTION	MANUF.	MODEL	NOTES
1	REFRIGERATOR	–	–	–
2	SINK DISPOSER	–	–	–
3	ADA SINK	–	–	–
4	MICROWAVE	–	–	–
5	ADA DISHWASHER	–	–	–
6	ADA FAUCET	–	–	–
7	WATER COOLER	–	–	PROVIDED BY TENANT GC TO PROVIDE WATERLINE
8	COFFEE MAKER	–	–	PROVIDED BY TENANT GC TO PROVIDE WATERLINE
10	EXISTING SINK	–	–	EXISTING TO REMAIN

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PROJECT:
TREE OF LIFE - PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
2ND & MEZZANINE FLOOR T.D.E. PLAN

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 REGISTERED ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdollahi Bamrow
Structural Engr. Section
Date

DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A7.1

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

1 GROUND & 1ST FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

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FOX ARCHITECTS

PROJECT:
TREE OF LIFE - PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
GROUND & 1ST FLOOR FINISH PLAN

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Title Engr. Section

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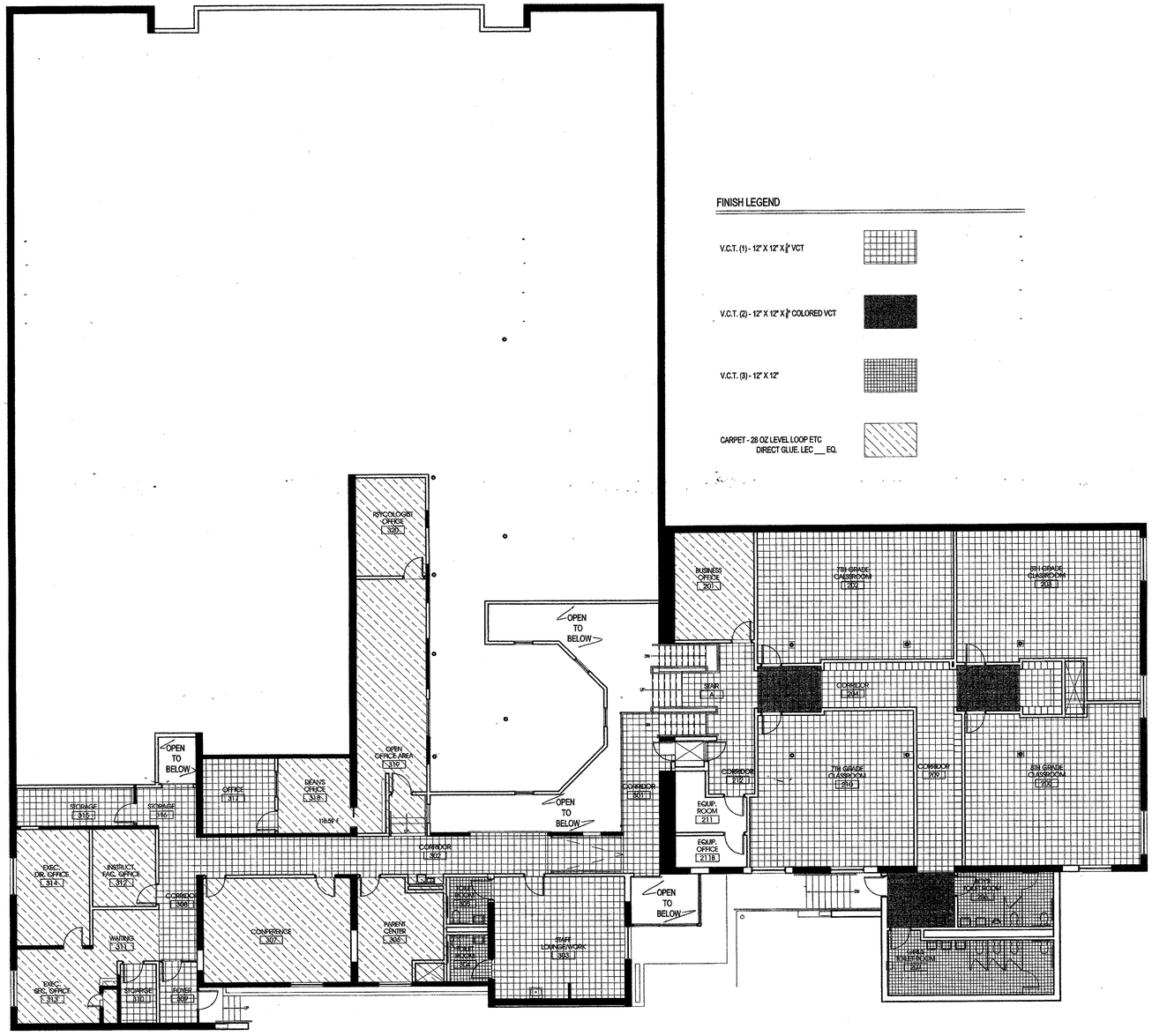
FINISH LEGEND

- V.C.T. (1) - 12" X 12" X 1/8" VCT
- V.C.T. (2) - 12" X 12" X 1/8" COLORED VCT
- V.C.T. (3) - 12" X 12"
- CARPET - 28 OZ LEVEL LOOP ETC DIRECT GLUE. LEC ___ EQ.



1 2ND & MEZZANINE FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

FOX ARCHITECTS
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PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
2ND & MEZZANINE FLOOR FINISH PLAN

ISSUED:
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PERMIT PROCESSING DIVISION
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Section

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DATE:
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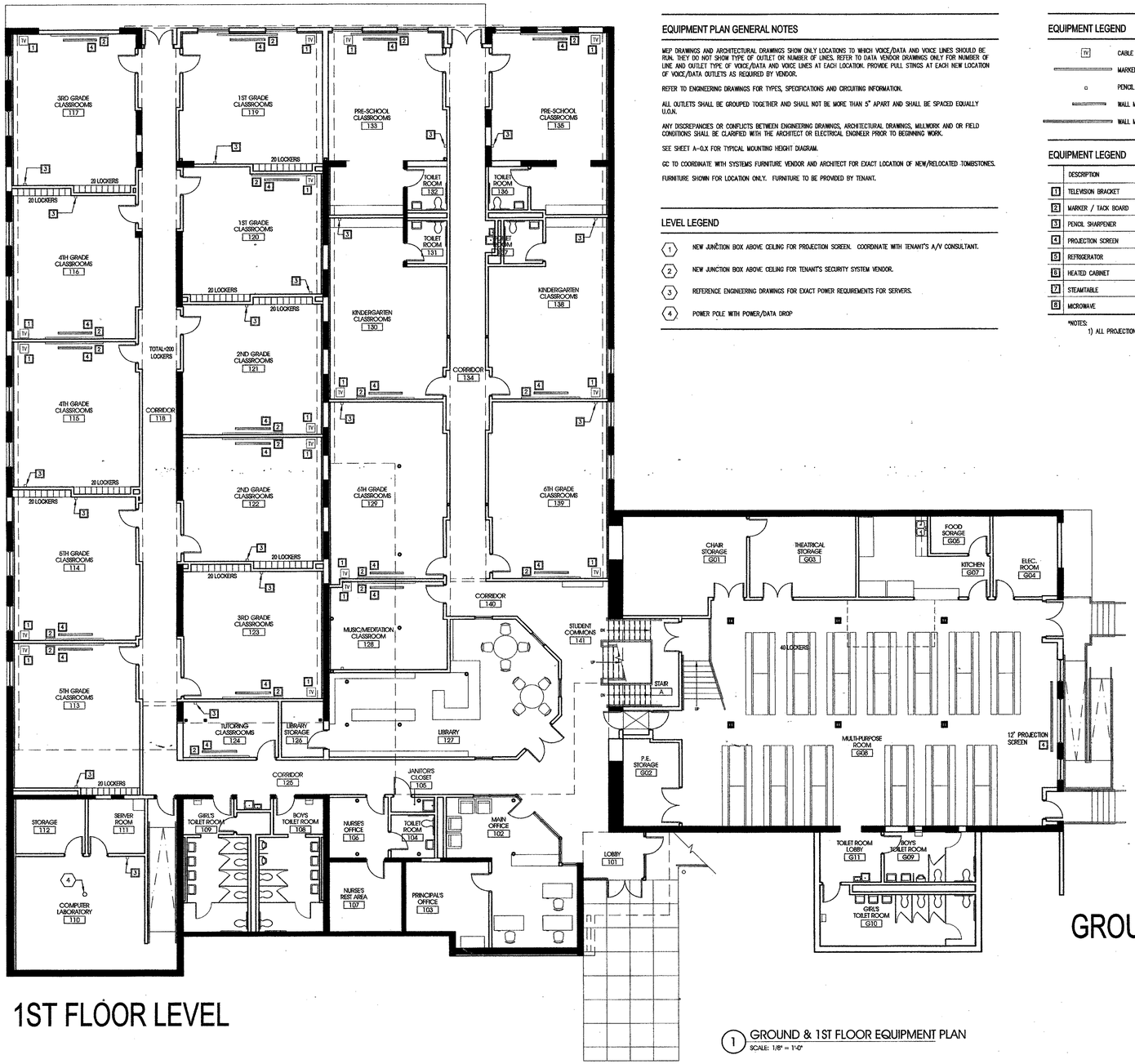
DRAWING NUMBER
A7.3

PERMIT/PRICING SET - NOT FOR CONSTRUCTION



1ST FLOOR LEVEL

GROUND LEVEL

EQUIPMENT PLAN GENERAL NOTES

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SEE SHEET A-0.X FOR TYPICAL MOUNTING HEIGHT DIAGRAM.

GC TO COORDINATE WITH SYSTEMS FURNITURE VENDOR AND ARCHITECT FOR EXACT LOCATION OF NEW/RELOCATED TOMBSTONES.

FURNITURE SHOWN FOR LOCATION ONLY. FURNITURE TO BE PROVIDED BY TENANT.

LEVEL LEGEND

1. NEW JUNCTION BOX ABOVE CEILING FOR PROJECTION SCREEN. COORDINATE WITH TENANT'S A/V CONSULTANT.
2. NEW JUNCTION BOX ABOVE CEILING FOR TENANT'S SECURITY SYSTEM VENDOR.
3. REFERENCE ENGINEERING DRAWINGS FOR EXACT POWER REQUIREMENTS FOR SERVERS.
4. POWER POLE WITH POWER/DATA DROP

EQUIPMENT LEGEND

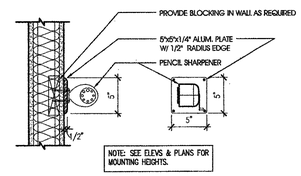
- TV — CABLE TV
- MARKER BOARD / TACK BOARD COMBINATION
- PENCIL SHARPENER
- WALL MOUNTED PROJECTION SCREEN 5'-10"
- WALL MOUNTED PROJECTION SCREEN 12'-0"

EQUIPMENT LEGEND

	DESCRIPTION	MANUF.	MODEL	NOTES
1	TELEVISION BRACKET	--	--	CLG. MOUNTED
2	MARKER / TACK BOARD	CLARIDGE	SERIES 4 -TYPE GR	--
3	PENCIL SHARPENER	--	--	SEE DETAIL 2/A7.4
4	PROJECTION SCREEN	DA-LITE	MODEL-C	SQUARE FORMAT SIZES
5	REFRIGERATOR	MCCALL	7000 SERIES	7-707DT- ON CASTERS
6	HEATED CABINET	MCCALL	4045-H	ON CASTERS
7	STEAMTABLE	MCCALL	DUKE C-6DLPG/C-6-DLSS	--
8	MICROWAVE	--	--	ENERGY STAR COMPLIANT

*NOTES:
1) ALL PROJECTION SCREEN ARE 5'-0" IN LENGTH UNLESS OTHER WISE NOTED.

1 GROUND & 1ST FLOOR EQUIPMENT PLAN
SCALE: 1/8" = 1'-0"



2 TYP. DETAIL @ PENCIL SHARPENER
SCALE: 1 1/2" = 1'-0"

FOX ARCHITECT

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PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
GROUND & 1ST FLOOR EQUIPMENT PLAN

ISSUED:
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DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
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Abdullahi Bennet
Structural Engr. Section
Date

DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A7.4

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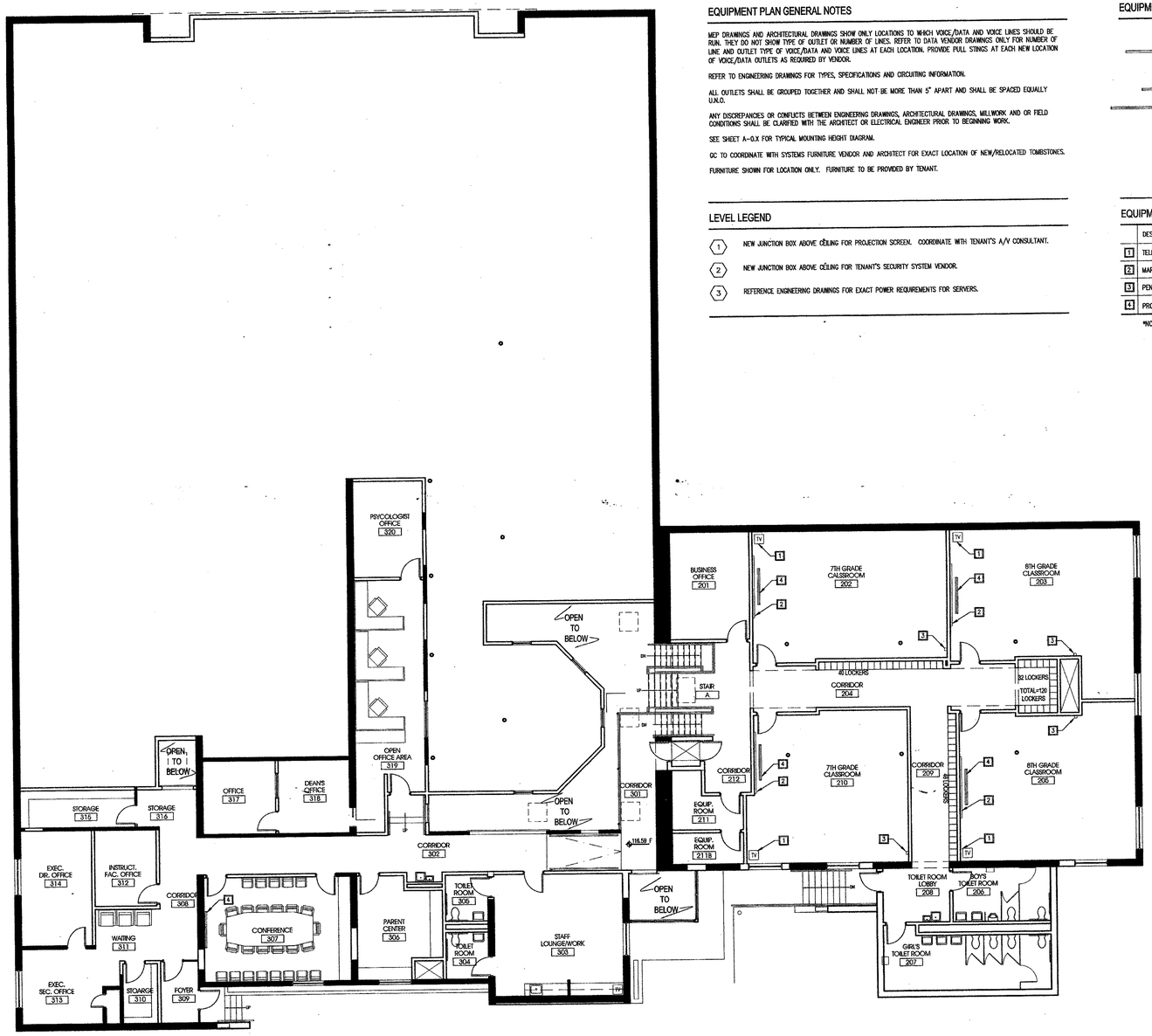

1 2ND & MEZZANINE FLOOR EQUIPMENT PLAN
SCALE: 1/8" = 1'-0"

EQUIPMENT PLAN GENERAL NOTES

MEP DRAWINGS AND ARCHITECTURAL DRAWINGS SHOW ONLY LOCATIONS TO WHICH VOICE/DATA AND VOICE LINES SHOULD BE RUN. THEY DO NOT SHOW TYPE OF OUTLET OR NUMBER OF LINES. REFER TO DATA VENDOR DRAWINGS ONLY FOR NUMBER OF LINE AND OUTLET TYPE OF VOICE/DATA AND VOICE LINES AT EACH LOCATION. PROVIDE PULL STINGS AT EACH NEW LOCATION OF VOICE/DATA OUTLETS AS REQUIRED BY VENDOR.

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SEE SHEET A-0.X FOR TYPICAL MOUNTING HEIGHT DIAGRAM.

GC TO COORDINATE WITH SYSTEMS FURNITURE VENDOR AND ARCHITECT FOR EXACT LOCATION OF NEW/RELOCATED TOMBSTONES.

FURNITURE SHOWN FOR LOCATION ONLY. FURNITURE TO BE PROVIDED BY TENANT.

LEVEL LEGEND

1. NEW JUNCTION BOX ABOVE CEILING FOR PROJECTION SCREEN. COORDINATE WITH TENANT'S A/V CONSULTANT.
2. NEW JUNCTION BOX ABOVE CEILING FOR TENANT'S SECURITY SYSTEM VENDOR.
3. REFERENCE ENGINEERING DRAWINGS FOR EXACT POWER REQUIREMENTS FOR SERVERS.

EQUIPMENT LEGEND

- TV — CABLE TV
- MARKER BOARD / TACK BOARD COMBINATION
- PENCIL SHARPENER
- WALL MOUNTED PROJECTION SCREEN 5'-10"
- WALL MOUNTED PROJECTION SCREEN 12'-0"

EQUIPMENT LEGEND

	DESCRIPTION	MANUF.	MODEL	NOTES
1	TELEVISION BRACKET	–	–	CLG. MOUNTED
2	MARKER / TACK BOARD	CLARIDGE	SERIES 4 –TYPE GR	–
3	PENCIL SHARPENER	–	–	SEE DETAIL 2/A7.4
4	PROJECTION SCREEN	DA-LITE	MODEL-C	SQUARE FORMAT SIZES

*NOTES:
1) ALL PROJECTION SCREEN ARE 5'-0" IN LENGTH UNLESS OTHER WISE NOTED.

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

FOX ARCHITECTS

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
2ND & MEZZANINE FLOOR EQUIPMENT PLAN

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

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DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 ARCHITECT

DISTRICT OF COLUMBIA
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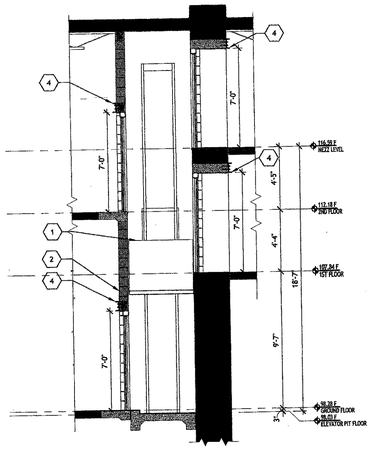
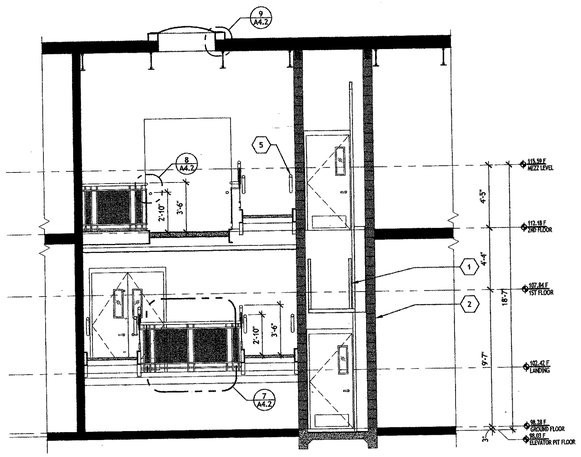
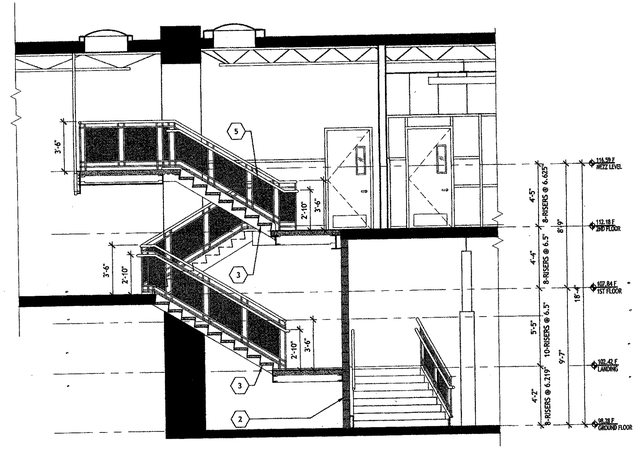


6 ENLARGED ELEVATOR SECTION
SCALE: 3/4" = 1'-0"



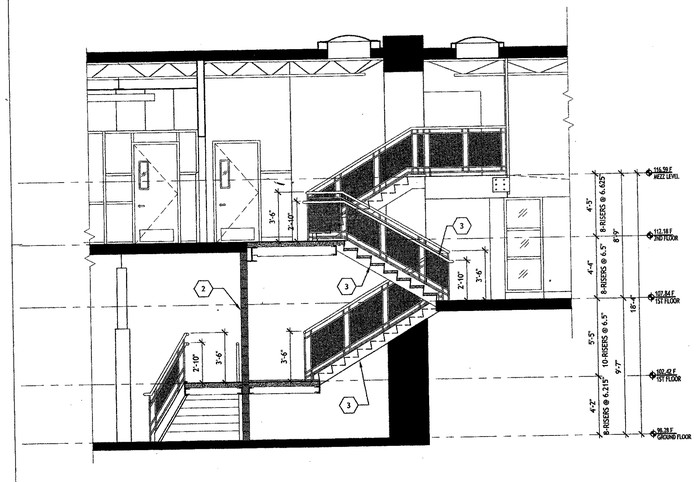
5 ENLARGED STAIR "A"SECTION
SCALE: 1/4" = 1'-0"



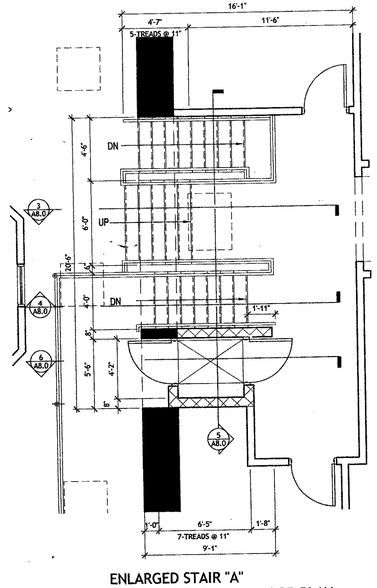
4 ENLARGED STAIR "A"SECTION
SCALE: 1/4" = 1'-0"

ELEVATION NOTES

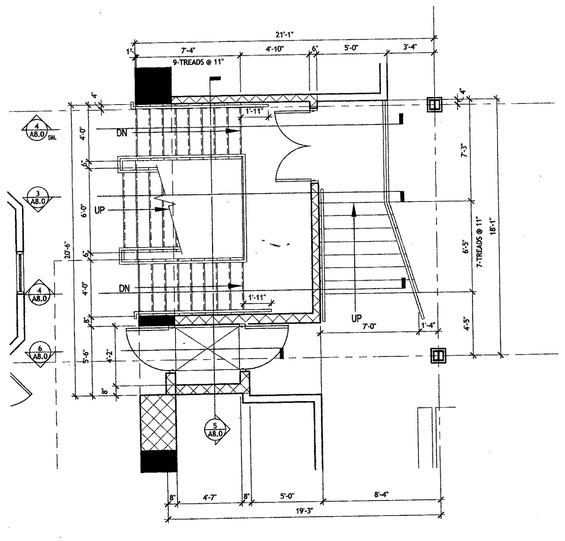
1. VERTICAL LIFT PLATFORM LIFT W/ INTER LOCK SYSTEM, SAVARIA V-1504 PLATFORM LIFT
2. 8" CMU. (PAINTED)
3. MTL. STAIR PAN
4. 8" DECORATIVE STL. CHANNEL (PAINTED)
5. HANDRAIL



3 ENLARGED STAIR "A"SECTION
SCALE: 1/4" = 1'-0"



ENLARGED STAIR "A"
2 2ND AND MEZZANINE FLOOR PLAN
SCALE: 1/4" = 1'-0"



ENLARGED STAIR "A"
1 GROUND AND 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0"

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

ARCHITECT

FOX ARCHITECTS
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
ENLARGED STAIR "A"
PLANS AND SECTIONS

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA
ROBERT A. FOX
No. 5607
REGISTERED
ARCHITECT

APPROVED
DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
STRUCTURAL SUBJECT TO THE
MARKED SUBJECT TO CONSTRUCTION
INSPECTION APPROVAL OF CONSTRUCTION
Abraham Barrow
Structural Engr. Section
Date

DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A8.0

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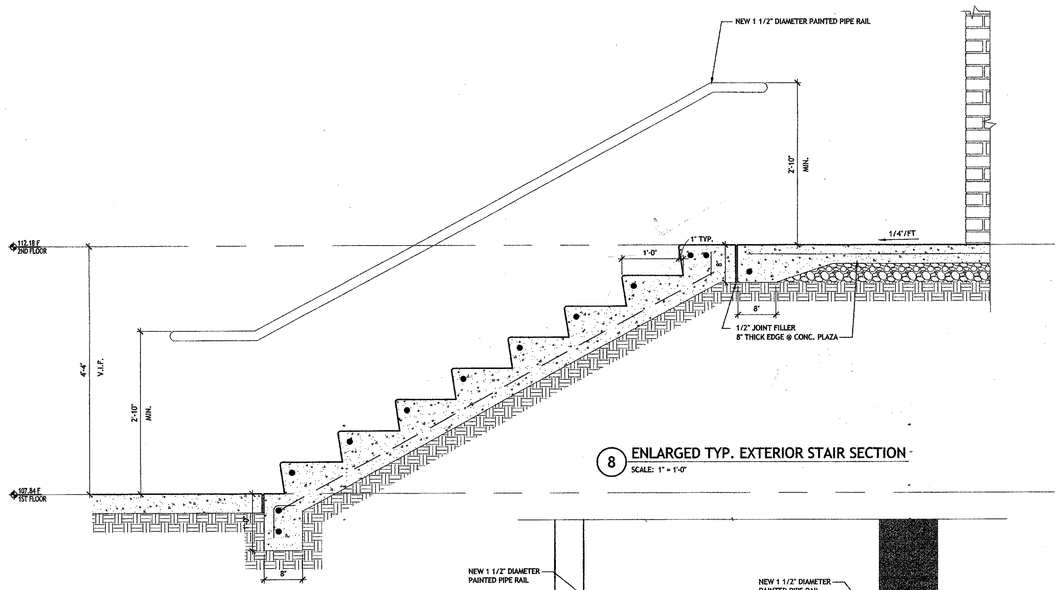
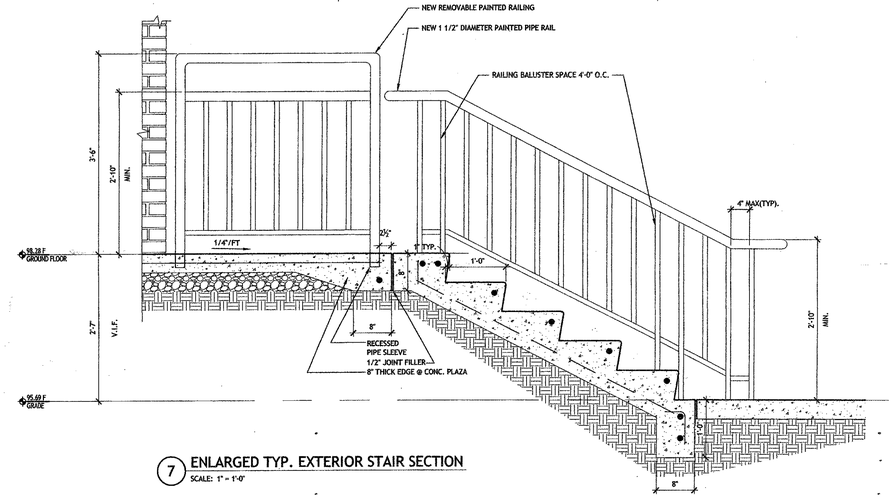


8 ENLARGED TYP. EXTERIOR STAIR SECTION
SCALE: 1" = 1'-0"



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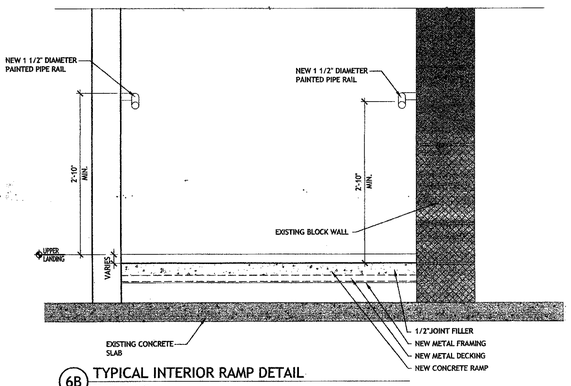
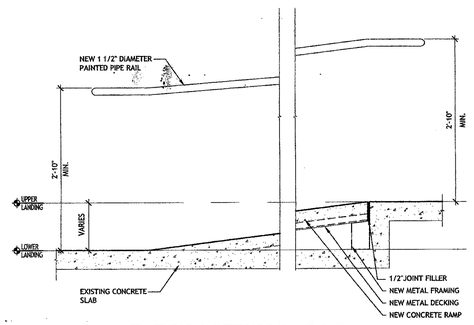


6B TYPICAL INTERIOR RAMP DETAIL
SCALE: 1" = 1'-0"



6A TYPICAL INTERIOR RAMP DETAIL
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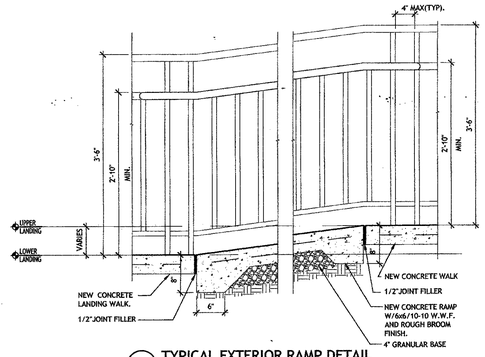
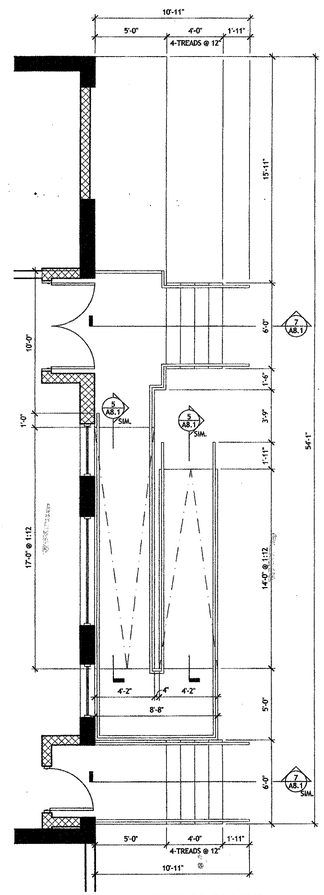
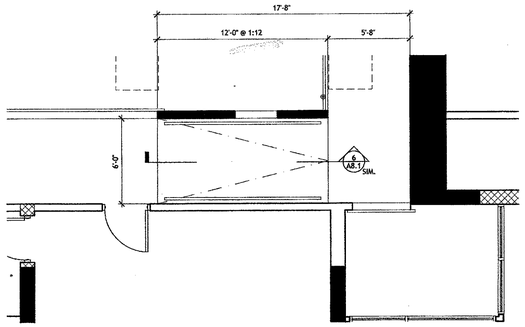


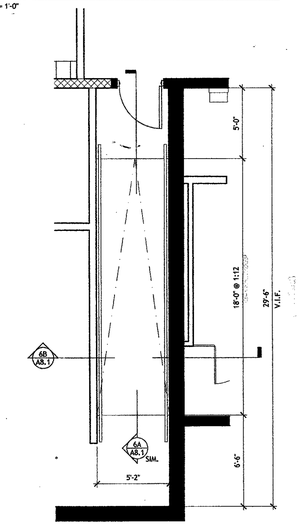
5 TYPICAL EXTERIOR RAMP DETAIL
SCALE: 1" = 1'-0"



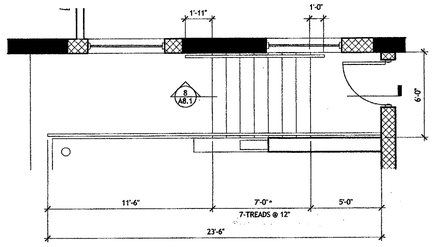
ENLARGED EXTERIOR GROUND FLOOR STAIR AND RAMP PLAN
1 SCALE: 1/4" = 1'-0"



6 ENLARGED MEZZANINE FLOOR RAMP PLAN
SCALE: 1" = 1'-0"



3 ENLARGED COMP. LAB RAMP PLAN
SCALE: 1/4" = 1'-0"



ENLARGED EXTERIOR MEZZANINE FLOOR STAIR PLAN
2 SCALE: 1/4" = 1'-0"

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FOX ARCHITECT

PROJECT:
TREE OF LIFE - PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
ENLARGED RAMPS AND EXTERIOR STAIRS PLANS AND SECTIONS

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 REGISTERED

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdigani Barrow
Structural Engr. Section

DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A8.1

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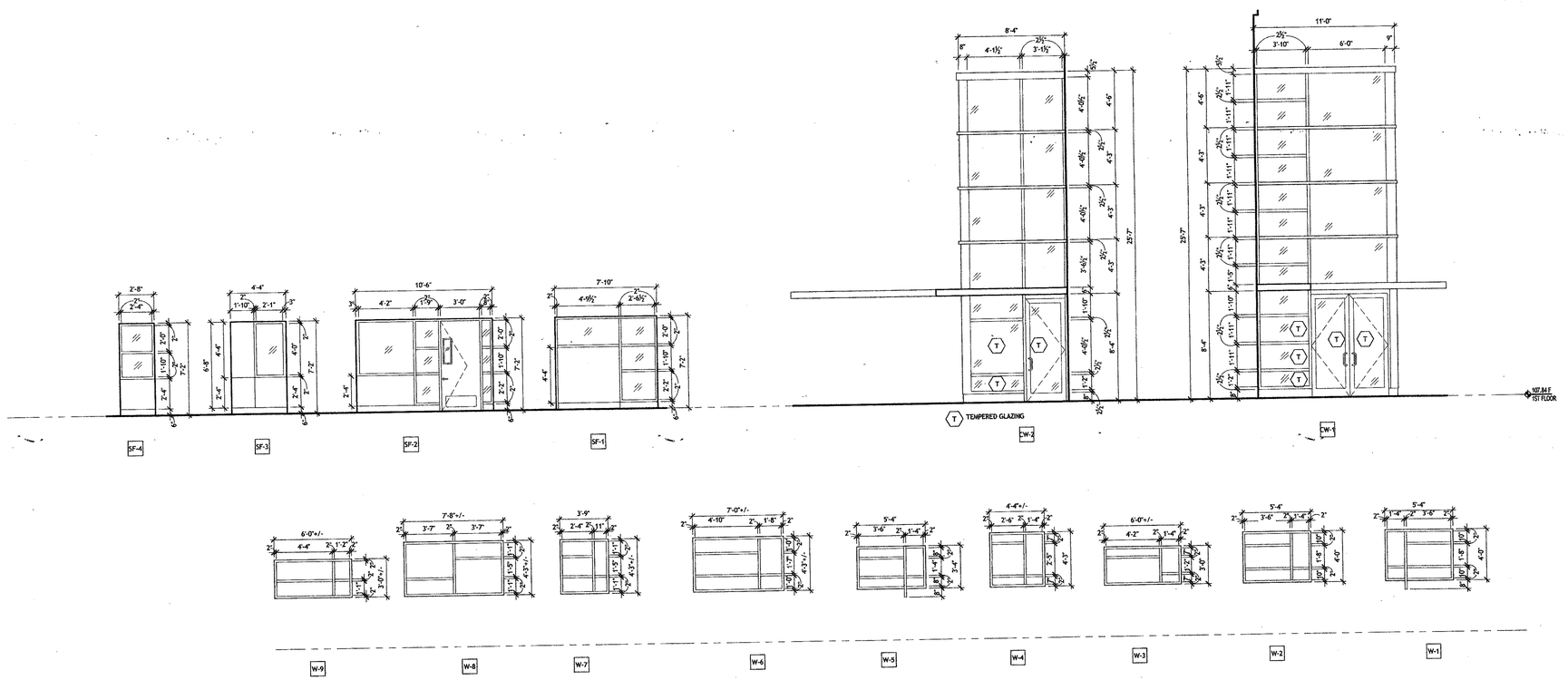
PERMIT/PRICING SET - NOT FOR CONSTRUCTION

WINDOW SCHEDULE

WINDOW TYPE	SIZE	MANUFACTURER	GLAZING			FRAME		LABEL	DETAILS		HARDWARE	REMARKS
			Material	Finish	Thickness	Material	Finish		Jamb	Head		
W-1	5'-8"X4'-3"	TBD	LOW-E	TBD	1"	ALUM	CLEAR-ANODIZED	TBD	TBD	TBD	HARDWARE?	REMARKS?
W-2	5'-8"X4'-3"	TBD	LOW-E	TBD	1"	ALUM	CLEAR-ANODIZED	TBD	TBD	TBD	HARDWARE?	REMARKS?
W-3	6'-0"X3'-0"	TBD	LOW-E	TBD	1"	ALUM	CLEAR-ANODIZED	TBD	TBD	TBD	HARDWARE?	REMARKS?
W-4	4'-4"X4'-3"	TBD	LOW-E	TBD	1"	ALUM	CLEAR-ANODIZED	TBD	TBD	TBD	HARDWARE?	REMARKS?
W-5	5'-8"X3'-7"	TBD	LOW-E	TBD	1"	ALUM	CLEAR-ANODIZED	TBD	TBD	TBD	HARDWARE?	REMARKS?
W-6	7'-0"X4'-3"	TBD	LOW-E	TBD	1"	ALUM	CLEAR-ANODIZED	TBD	TBD	TBD	HARDWARE?	REMARKS?
W-7	3'-9"X4'-3"	TBD	LOW-E	TBD	1"	ALUM	CLEAR-ANODIZED	TBD	TBD	TBD	HARDWARE?	REMARKS?
W-8	7'-8"X4'-3"	TBD	LOW-E	TBD	1"	ALUM	CLEAR-ANODIZED	TBD	TBD	TBD	HARDWARE?	REMARKS?
W-9	6'-0"X3'-0"	TBD	LOW-E	TBD	1"	ALUM	CLEAR-ANODIZED	TBD	TBD	TBD	HARDWARE?	REMARKS?
SF-1												
SF-2												
SF-3												
SF-4												
CW-1												
CW-2												

NOTE:
1. –



1 WINDOW & CURTAIN WALL SCHEDULE

SCALE: 1/4" = 1'-0"

NOTE:
1. ALL ROUGH OPENING DIMENSIONS ARE TO BE VERIFIED IN FIELD
2. ALL WINDOWS ARE DESIGN AND SHOULD BE INSTALLED IN ACCORDING TO KAWNEER'S SPECIFICATION FOR SEALAIR ARCHITECTURAL WINDOW SERIES: 8025TL-THERMAL LANCED-HEAVY COMMERCIAL OR (APPROVED EQUAL)
3. STOREFRONT IS DESIGN AND SHOULD BE INSTALLED IN ACCORDING TO KAWNEER'S SPECIFICATION TRIFAB 400 ALUMINUM ENTRANCES AND STOREFRONTS SERIES,OR (APPROVED EQUAL)
4. CURTAIN WALL IS DESIGN AND SHOULD BE INSTALLED IN ACCORDING TO KAWNEER'S SPECIFICATION 1600 WALL SYSTEM, OR (APPROVED EQUAL)
5. CURTAIN WALL GLAZING IS TO BE 1/4" THERMALLY INSULATED GLASS;THE EXTERIOR FACE OF GLASS IS TO BE PPG-SOLARBRONZE FLOAT GLASS, THE INTERIOR FACE OF GLASS IS TO BE PPG-CLEAR FLOAT GLASS. (OR AND APPROVED EQUAL)

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

FOX ARCHITECT

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PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
WINDOW SCHEDULE
ELEVATIONS

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 REGISTERED ARCHITECT

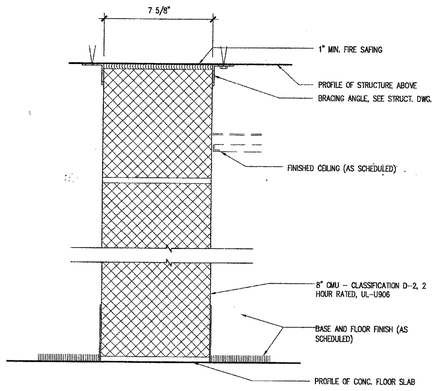
DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL MATERIAL GENERALLY
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION

Abhishek Sharma
Structural Engineer

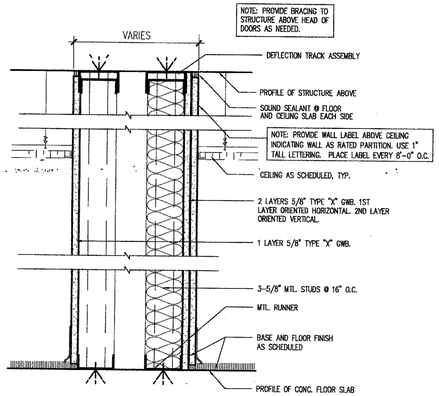
DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A9.0

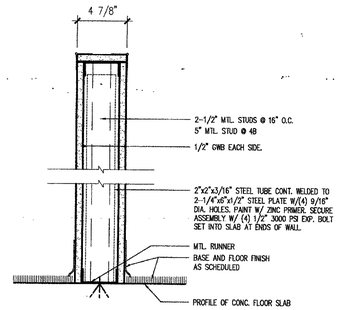
PERMIT/PRICING SET - NOT FOR CONSTRUCTION



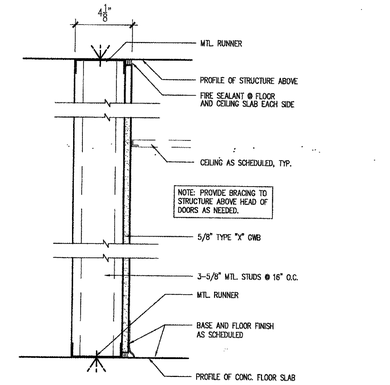
8 PARTITION A - 2 HOUR CMU WALL
SCALE: 3" = 1'-0" UL-U906



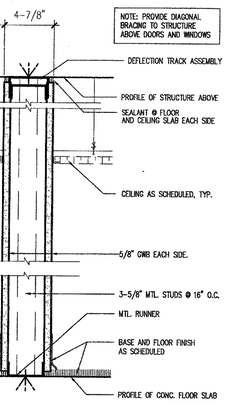
7 PARTITION TYPE 4 - STC 45 PARTITION
SCALE: 3" = 1'-0" UL# U419 - 1 HOUR RATING



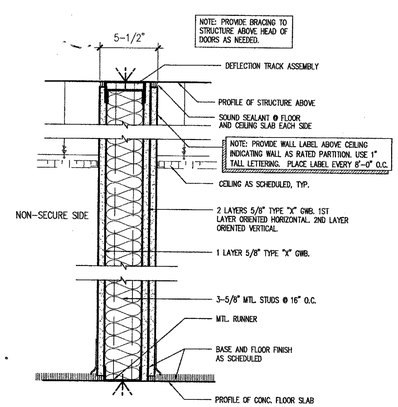
6 PARTITION TYPE 5 - LOW PARTITION
SCALE: 3" = 1'-0"



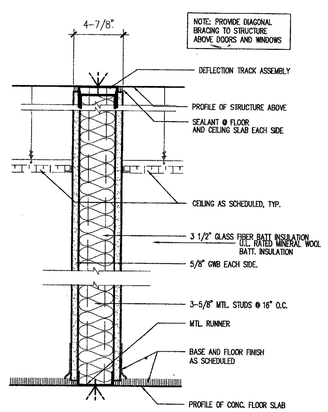
5 PARTITION TYPE 2 - .
SCALE: 3" = 1'-0" UL# U465



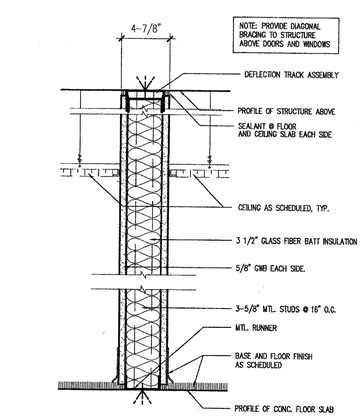
4 PARTITION TYPE 4 - SLAB TO SLAB PARTITION
SCALE: 3" = 1'-0"



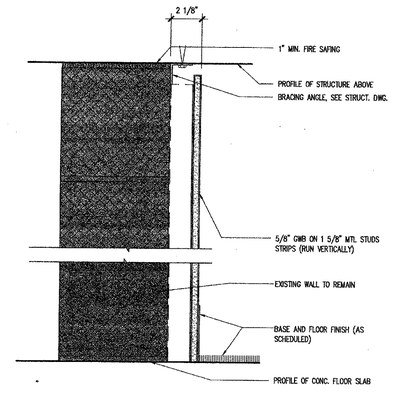
3 PARTITION TYPE 3 - STC 45 PARTITION
SCALE: 3" = 1'-0" UL# U419 - 1 HOUR RATING



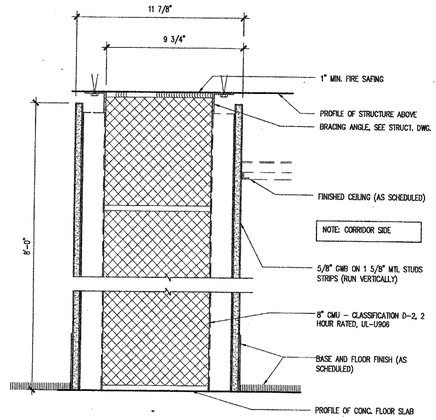
2 PARTITION TYPE 2 - SLAB TO SLAB PARTITION
SCALE: 3" = 1'-0" UL# U448 - 1 HOUR RATING



1 PARTITION TYPE 1 - SLAB TO SLAB SMOKE PARTITION
SCALE: 3" = 1'-0"



9 PARTITION 10 - FURRED OUT EXISTING WALL
SCALE: 3" = 1'-0" UL-U906



9 PARTITION B - 2 HOUR CMU WALL
SCALE: 3" = 1'-0" UL-U906

PARTITION TYPE 10A — FURRING ONE SIDE ONLY
PARTITION TYPE 10B — NO FURRING

ARCHITECT

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
PARTITION TYPES

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT L. FOX No. 5607 REGISTERED ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdallah Bazroun
Structural Engr. Section
Date

DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A9.1

ARCHITECTS
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

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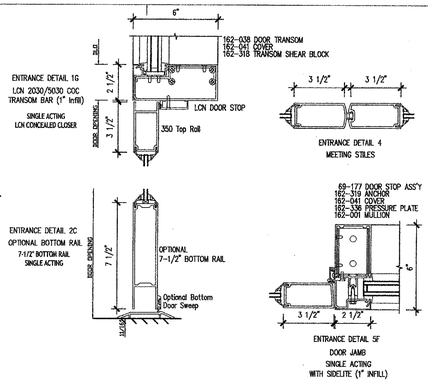
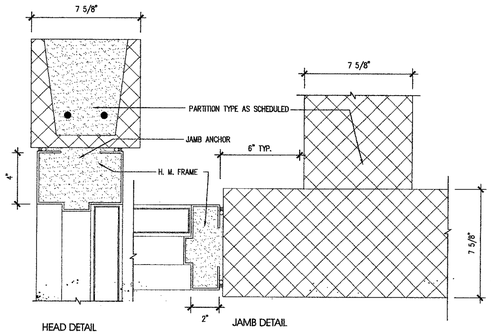
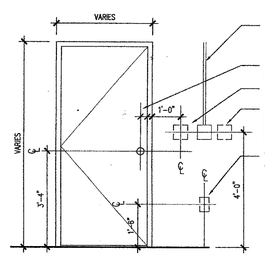


7 HEAD/JAMB DETAIL @ CWS FRAME AT ENTRANCE
SCALE: 3"=1'-0"

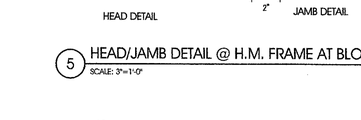
8 TYPICAL VCT / CARPET TRANSITION
NTS



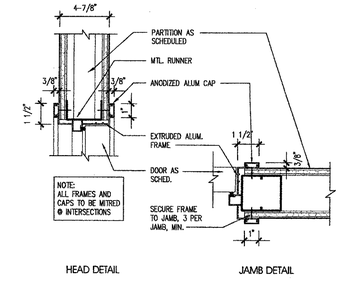
5 HEAD/JAMB DETAIL @ H.M. FRAME AT BLOCK WALL
SCALE: 3"=1'-0"



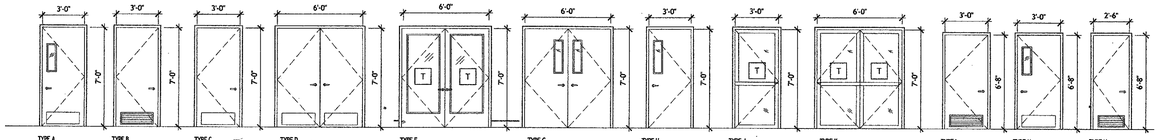
6 TYPICAL DOOR ELEVATION DETAIL
SCALE: 1/2" = 1'-0"



3 HEAD/JAMB DETAIL @ H.M. FRAME
SCALE: 3"=1'-0"



2 HEAD/JAMB DETAIL @ ALUM. FRAME
SCALE: 3"=1'-0"



1 DOOR TYPES
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

Door Type	Size	Door			Frame			Details		Threshold	Label	Hardware	Remarks
		Material	Finish	Thickness	Material	Finish	Depth	Head	Jamb				
TYPE A	3'-0"x 7'-0"	SCWD	STAINED	1-3/4"	HM	PTD	COORD.	5/A9.02	5/A9.02	–	–	–	1/4" TEMPERED GLASS VISION PANEL AND LOUVER. WD-1
TYPE B	3'-0"x 7'-0"	SCWD	STAINED	1-3/4"	HM	PTD	COORD.	5/A9.02	5/A9.02	–	–	–	WITH LOUVER. WD-1
TYPE C	3'-0"x 7'-0"	SCWD	STAINED	1-3/4"	MTL	HM	COORD.	5/A9.02	5/A9.02	–	–	–	WD-1
TYPE D	6'-0"x 7'-0" (PAIR)	SCWD	STAINED	1-3/4"	HM	PTD	COORD.	5/A9.02	5/A9.02	–	–	–	WD-1
TYPE F	6'-0"x 7'-0" (PAIR)	SCWD	STAINED	1-3/4"	HM	PTD	COORD.	5/A9.02	5/A9.02	–	–	–	WITH VISION KIT. WD-1
TYPE G	3'-0"x 7'-0"	HM	PAINTED	1-3/4"	HM	PTD	COORD.	5/A9.02	5/A9.02	–	–	–	WITH VISION PANEL. COLOR TBD.
TYPE H	6'-0"x 7'-0" (PAIR)	HM	PAINTED	1-3/4"	HM	PTD	COORD.	5/A9.02	5/A9.02	–	–	–	WITH VISION PANELS. COLOR TBD.
TYPE J	3'-0"x 7'-0"	ALUM	ANODIZED	1-3/4"	HM	PTD	COORD.	4/A9.02	4/A9.02	–	–	–	MEDIUM STILE ALUMINUM/GLASS DOOR
TYPE K	6'-0"x 7'-0" (PAIR)	ALUM	ANODIZED	1-3/4"	HM	PTD	COORD.	4/A9.02	4/A9.02	–	–	–	MEDIUM STILE ALUMINUM/GLASS DOORS
TYPE L	3'-0"x 6'-8"	SCWD	STAINED	1-3/4"	HM	PTD	COORD.	5/A9.02	5/A9.02	–	–	–	WITH LOUVER. WD-1
TYPE M	3'-0"x 6'-8"	SCWD	STAINED	1-3/4"	HM	PTD	COORD.	5/A9.02	5/A9.02	–	–	–	1/4" TEMPERED GLASS VISION PANEL AND LOUVER. WD-1
TYPE N	3'-0"x 6'-8"	SCWD	STAINED	1-3/4"	HM	PTD	COORD.	5/A9.02	5/A9.02	–	–	–	WITH LOUVER. WD-1

GENERAL HARDWARE NOTES:

- HARDWARE TYPES AND FUNCTIONS INDICATED IN THE HARDWARE SCHEDULE ARE THE BASIC INFORMATION FOR EACH DOOR OPENING. PROVIDE COMPLETE HARDWARE FOR EACH OPENING AS NEEDED.
- PROVIDE THREE (3) SILENCERS (GRAY COLOR) FOR SINGLE DOOR FRAME AND SILENCERS FOR DOUBLE DOOR HM FRAMES. ALUMINUM DOOR FRAMES TO BE EQUIPPED W/SILENCER STRIP, TYP.
- CLOSER AND OTHER HARDWARE SHALL MEET THE REQUIREMENTS OF ADA REGULATIONS.
- PROVIDE DOOR CLOSER WITH STOP (SUCH AS CLAP 8501) WHERE REGULAR DOOR STOP CANNOT BE INSTALLED.
- PROVIDE AND INSTALL ELECTROMAGNETIC LOCKS AT DOORS SCHEDULED TO RECEIVE SECURITY CARD READERS. SEE SHEET A3.01 FOR LOCATIONS. COORDINATE WITH OWNER AND/OR TENANT FOR SECURITY HARDWARE SPECIFICATIONS AND REQUIREMENTS.

GENERAL DOOR NOTES:

- ALL HARDWARE MOUNTING AND FUNCTION TO MEET ADA REQUIREMENTS.
- FOR FRAME CONDITIONS AND SIZES, SEE ADJACENT PARTITION TYPES & REFER TO DETAILS. GC TO COORDINATE FRAME THROAT SIZES WITH ADJACENT PARTITIONS.
- SEE INTERIOR ELEVATIONS AND DETAILS FOR FURTHER INFORMATION.
- CAULK ALL JOINTS BETWEEN WALLS AND FRAMES WITH SEALANT AND PAINT @ HOLLOW METAL FRAMES ONLY.
- ALL SIDELIGHTS AT DOORS TO BE 1/4" THICK TEMPERED CLEAR GLASS, SEE ELEVATIONS.

ALL DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT PARTITIONS. ALL PAINTED DOORS AND FRAMES TO RECEIVE SEMI-GLOSS ENAMEL PAINT (WHERE APPLICABLE). PAINTED FINISH TO BE SPRAY APPLIED.

HARDWARE SCHEDULE

HARDWARE SET	QTY	MANUFACTURER	MANUFACTURER NUMBER	FINISH	ITEM	FUNCTION	NOTES
1 CLASSROOM SET	3 PR	MCKINNEY	TA2314 – 4 1/2" X 4 1/2"	629	HINGES	–	FULL MORTIS BALL BEARING–STANDARD
	1 EA	CORBIN RUSSWIN	ML2055	US26D	LOCKSET	CLASSROOM FUNCTION	ADA COMPLIANT LEVER TYPE
	1 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
	1 EA	NGP	5020	–	SMOKE SEAL	SMOKE SEAL	DO NOT PAINT
	1 EA	YALE	PR1902/4	689	CLOSER	–	–
2 TOILET ROOM SET	3 PR	MCKINNEY	TA2314 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–STANDARD
	1 EA	CORBIN RUSSWIN	ML2042	US26D	LOCKSET	TOILET FUNCTION	ADA COMPLIANT LEVER TYPE
	1 EA	VON DUPRIN	9875HL	626	LATCH	–	–
	1 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
	1 EA	NGP	5020	–	SMOKE SEAL	SMOKE SEAL	DO NOT PAINT
	1 EA	YALE	PR1902/4	689	CLOSER	–	–
3 TOILET ROOM SET	3 PR	MCKINNEY	TA2314 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–STANDARD
	1 EA	CORBIN RUSSWIN	ML2042	US26D	LOCKSET	TOILET FUNCTION	ADA COMPLIANT LEVER TYPE
	1 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
	1 EA	NGP	5020	–	SMOKE SEAL	SMOKE SEAL	DO NOT PAINT
	1 EA	VON DUPRIN	9875HL	626	LATCH	–	–
4 STORAGE ROOM SET	3 PR	MCKINNEY	TA2314 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–STANDARD
	1 EA	CORBIN RUSSWIN	ML2057	US26D	LOCKSET	STOREAGE FUNCTION	ADA COMPLIANT LEVER TYPE
	1 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
	4 EA	IVES	63	GREY	SILENCERS	–	DO NOT PAINT
5 STORAGE ROOM SET	3 PR	MCKINNEY	TA2314 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–STANDARD
	1 EA	CORBIN RUSSWIN	ML2057	US26D	LOCKSET	STOREAGE FUNCTION	ADA COMPLIANT LEVER TYPE
	1 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
	4 EA	IVES	63	GREY	SILENCERS	–	DO NOT PAINT
	1 EA	NGP	5020	–	SMOKE SEAL	SMOKE SEAL	DO NOT PAINT
5A STORAGE ROOM SET-DBL	3 PR	MCKINNEY	TA2314 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–STANDARD
	1 EA	CORBIN RUSSWIN	ML2057	US26D	LOCKSET	STOREAGE FUNCTION	ADA COMPLIANT LEVER TYPE
	1 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
	4 EA	IVES	63	GREY	SILENCERS	–	DO NOT PAINT
6 OFFICE SET	3 PR	MCKINNEY	TA2314 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–STANDARD
	1 EA	CORBIN RUSSWIN	ML2051	US26D	LOCKSET	OFFICE FUNCTION	ADA COMPLIANT LEVER TYPE
	1 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
	4 EA	IVES	63	GREY	SILENCERS	–	DO NOT PAINT
7 OFFICE SET	3 PR	MCKINNEY	TA2314 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–STANDARD
	1 EA	KAWNEER	1850 DEADBOLT	#14	LOCKSET	OFFICE FUNCTION	ADA COMPLIANT PULL
	1 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
	1 EA	NGP	5020	–	SMOKE SEAL	SMOKE SEAL	DO NOT PAINT
	1 EA	KAWNEER	NORTON 1605BC	#14	CLOSER	–	PARALLEL ARM
	1 EA	KAWNEER	C09	#14	PULL	–	–
8 ENTRY SET	3 PR	MCKINNEY	T4A3386 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–HEAVY
	1 EA	CORBIN RUSSWIN	ML2042	US26D	LOCKSET	–	ADA COMPLIANT
	1 EA	KAWNEER	DOR-O-MATIC 1990	#17	LATCHSET	LATCH	ADA COMPLIANT
	1 EA	KAWNEER	HUSKY 2	#14	CLOSER	–	–
	1 EA	KAWNEER	C012	#14	PULL	–	–
	2 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
9 ENTRY SET-DBL	6 PR	MCKINNEY	T4A3386 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–HEAVY
	1 EA	CORBIN RUSSWIN	ML20905	US26D	LOCKSET	–	ELECTRIC STRIKE LOCKSET
	2 EA	KAWNEER	DOR-O-MATIC 1990	#17	LATCHSET	LATCH	ADA COMPLIANT
	2 EA	KAWNEER	HUSKY 2	#14	CLOSER	–	–
	2 EA	KAWNEER	C012	#14	PULL	–	–
	2 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
10 ENTRY SET	3 PR	MCKINNEY	T4A3386 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–HEAVY
	1 EA	CORBIN RUSSWIN	ML2042	US26D	LOCKSET	–	ADA COMPLIANT
	1 EA	CORBIN RUSSWIN	ED600 SERIES	629	LATCHSET	–	ADA COMPLIANT PANIC BAR
	1 EA	CORBIN RUSSWIN	CITATION C4M	629	LATCHSET	–	ADA COMPLIANT LATCH
	2 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
11 ENTRY SET-DBL	6 PR	MCKINNEY	T4A3386 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–HEAVY
	1 EA	CORBIN RUSSWIN	ML20905	US26D	LOCKSET	–	ELECTRIC STRIKE LOCKSET
	2 EA	CORBIN RUSSWIN	ED600 SERIES	629	LATCHSET	–	ADA COMPLIANT PANIC BAR
	2 EA	CORBIN RUSSWIN	CITATION C4M	629	LATCHSET	–	ADA COMPLIANT LATCH
	2 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–
12 ENTRY SET- DBL	3 PR	MCKINNEY	T4A3386 – 4 1/2" X 4 1/2"	626	HINGES	–	FULL MORTIS BALL BEARING–HEAVY
	1 EA	CORBIN RUSSWIN	ML2042	US26D	LOCKSET	–	ADA COMPLIANT
	1 EA	CORBIN RUSSWIN	ED600 SERIES	629	LATCHSET	–	ADA COMPLIANT PANIC BAR
	1 EA	CORBIN RUSSWIN	CITATION C4M	629	LATCHSET	–	ADA COMPLIANT LATCH
	1 EA	GLYNN JOHNSON	FB13/14R	626	DOOR STOP	–	–

FOX ARCHITECTS

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

57

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
DOOR SCHEDULE
ELEVATIONS

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP: DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 REGISTERED ARCHITECT

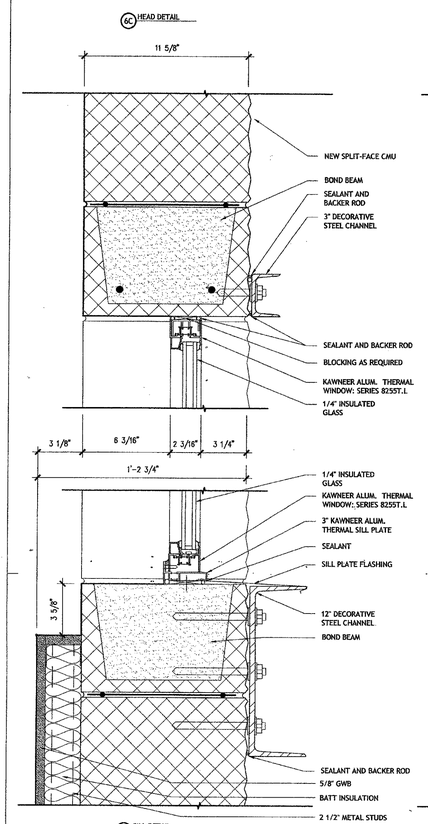
DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FINAL APPROVAL OF CONSTRUCTION

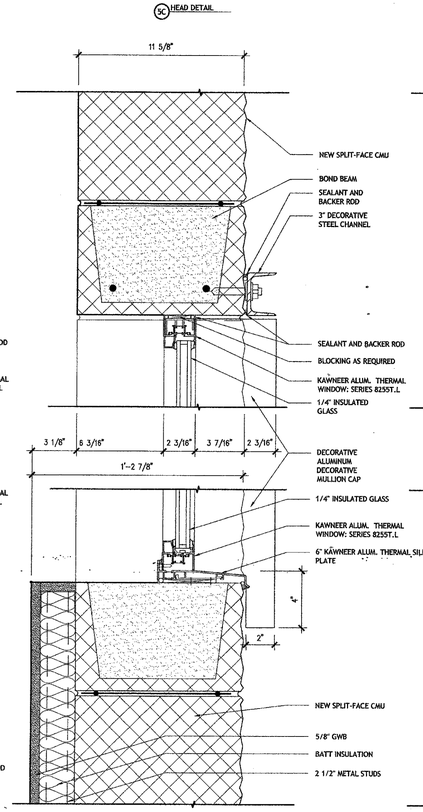
DRAWN BY: FOX
DATE: 02 FEBRUARY 2005
FOX PROJECT NO.: 04152.00

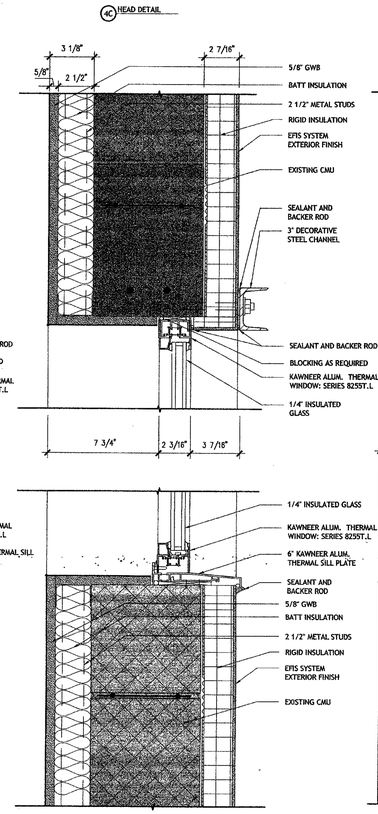
DRAWING NUMBER
A9.2

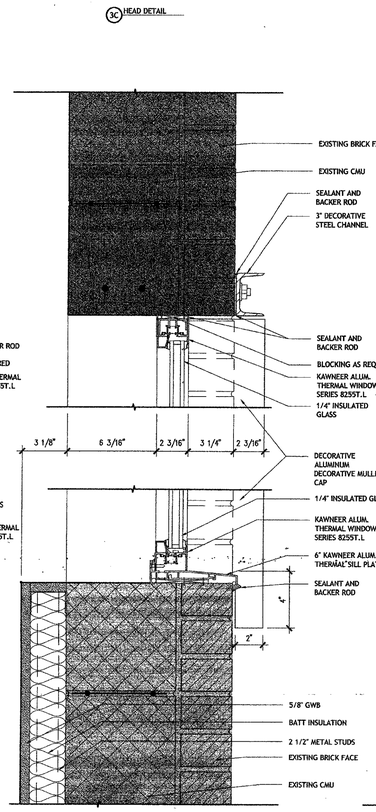
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

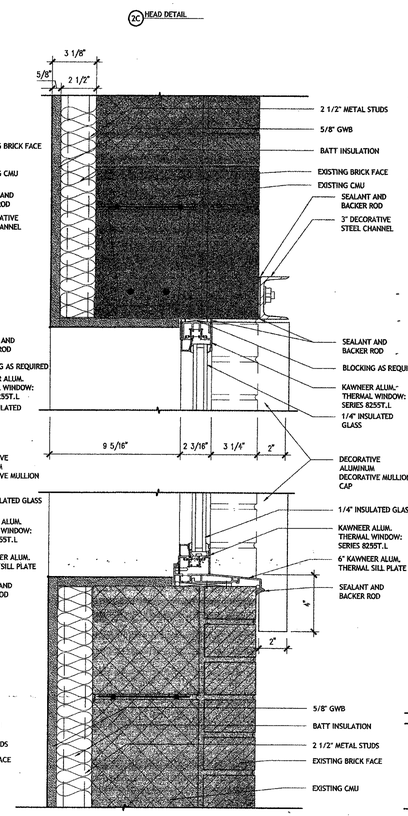
PERMIT/PRICING SET - NOT FOR CONSTRUCTION

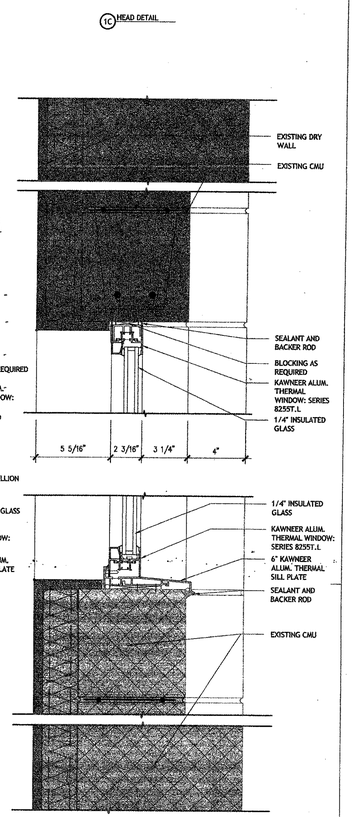












6 WINDOW HEAD/SILL/JAMB DETAILS
SCALE: 3" = 1'-0"

NOTE:
1. ALL ROUGH OPENING DEMINSIONS ARE TO BE VERFIED IN FIELD

5 WINDOW HEAD/SILL/JAMB DETAILS
SCALE: 3" = 1'-0"

NOTE:
1. ALL ROUGH OPENING DEMINSIONS ARE TO BE VERFIED IN FIELD

4 WINDOW HEAD/SILL/JAMB DETAILS
SCALE: 3" = 1'-0"

NOTE:
1. ALL ROUGH OPENING DEMINSIONS ARE TO BE VERFIED IN FIELD

3 WINDOW HEAD/SILL/JAMB DETAILS
SCALE: 3" = 1'-0"

NOTE:
1. ALL ROUGH OPENING DEMINSIONS ARE TO BE VERFIED IN FIELD

2 WINDOW HEAD/SILL/JAMB DETAILS
SCALE: 3" = 1'-0"

NOTE:
1. ALL ROUGH OPENING DEMINSIONS ARE TO BE VERFIED IN FIELD

1 WINDOW HEAD/SILL/JAMB DETAILS
SCALE: 3" = 1'-0"

NOTE:
1. ALL ROUGH OPENING DEMINSIONS ARE TO BE VERFIED IN FIELD

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

FOX ARCHITECTS
8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
WINDOW DETAILS

ISSUED:
PERMIT/PRICING SET 02 FEBRUARY 2005

STAMP:
DISTRICT OF COLUMBIA ROBERT A. FOX No. 5607 ARCHITECT

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Approved Below
Structural Engr. Section
Date

DRAWN BY: FOX
DATE:
FOX PROJECT NO.: 04152.00

DRAWING NUMBER
A9.3

CONSTRUCTION SET

LIVE LOADS - Roof . . . . . 30 psf
Pg = 25 psf
Is = 1.0
Ce = 1.0
Ct = 1.0
Pf = 20 psf

Schools:
Classrooms . . . . . 40 psf 1000lbs. Conc.
First Floor Corridors . . . . . 100 psf 1000lbs. Conc.
Corridors above First Floor . . . . . 80 psf 1000lbs. Conc.
Stairs and Exits . . . . . 100 psf 300lbs. Conc.

Handrail assemblies and guards shall be designed to resist a load of 50 plf applied in any direction at the top and to transfer this load through the supports to the structure. Handrail assemblies and guards shall be able to resist a single concentrated load of 200 pounds, applies in any direction at any point along the top, and have attachment devices and supporting structure to transfer this loading to appropriate structural elements of the building (this load need not act concurrently with the loads specified above). Intermediate rails, balusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 pounds.

WIND LOAD - Section 1609.0 2000 IBC Code:
V3s = 90 mph
I = 1.0
Exposure: X
GCpi = +/-0.18

GENERAL

1. Provide all labor, material, equipment and miscellaneous items including but not limited to clips, inserts, ties, anchor straps, hangers, bolts, and other fasteners required to complete the work.

2. Verify all floor and roof openings with the architectural and MEP drawings . Verify all depressions, dimensions, and slopes from the architectural drawings. Any discrepancy shall be brought to the attention of the Architect.

3. The contractor shall be solely responsible for site safety, and the stability of all new, temporary, and existing structures, walls, slabs, etc. during the construction phase.

FOUNDATIONS

1. Assumed soil bearing value of '2,000' psf to be verified by geotechnical engineer or qualified soils technician. Refer to the geotechnical report for earthwork procedures, compaction, and additional information.

2. All footings shall project at least 1'-0" into undisturbed natural soil or compacted controlled fill having a bearing value at least equal to that specified above.

3. Bottoms of all exterior footings shall be at least 2'-6" below finished grade or as required by local code requirements. Footing elevations indicated on drawings have been established from available information provided by others and may not violate criteria established above. Footing elevations shall be lowered as site conditions warrant for poor soil conditions or as required to facilitate site utilities or existing conditions.

4. Unless otherwise shown on the drawings, wall footings shall be 12" deep and project 6" beyond each face of wall. Wall footings supporting masonry walls are to be reinforced with 3#5 longitudinal continuous bottom bars.

7. All disturbed earth under footings shall be replaced with lean concrete.

8. All bearing strata shall be adequately drained before foundation concrete is placed.

9. No excavation shall be closer than at a slope of 2:1 (2 horizontal to one vertical) to an existing footing or structure U.O.N.

10. Do not place concrete over frozen soil.

11. Centerline of footing shall match centerline of column, pedestal and/or pier unless shown otherwise.

UNDERPINNING

1. Method of underpinning shall be determined and installed by a specialty contractor experienced in this type of work.

2. Underpinning shall be performed at existing foundations as required by site conditions to lower existing foundations. Specialty contractor shall determine extent and appropriate sequences based on field conditions and proposed construction.

3. Field verify elevations of existing footings, utilities, etc. prior to preparing underpinning plan, or adjust in field during construction as field conditions are exposed.

4. Underpinning piers shall extend a minimum of 1'-0" below bottom of new slab or foundation elevation or as indicated on drawings. Alternate methods of underpinning may have different criteria.

5. Underpinning piers shall be installed in 4'-0" +/- alternate sections or as indicated on underpinning drawings. No open underpinning pit shall be closer than 12'-0" to another open pit. Fully drypack between top of pier and bottom of existing foundation prior to excavation of next pier in sequence. Open excavation shall be inspected by Geotechnical Engineer or qualified soils technician prior to placing concrete.

6. Except as indicated otherwise, underpinning concrete shall have a minimum compressive strength F'c = 2500 psi.

7. Underpinning shop drawings bearing the seal and signature of the responsible designer shall be submitted for approval.

POST INSTALLED MECHANICAL AND CHEMICAL ANCHORS

1. All mechanical and chemical anchors indicated within these documents shall be provided by Hilti, Inc. or an SDG-approved equivalent. Alternate anchors shall submitted to SDG for approval-submittal must include all relevant technical information including allowable load values.

2. All anchors shall be installed in accordance with the anchor manufacturer's specifications.

3. UON, all anchors shall have standard embedment depth as defined by the anchor manufacturer.

4. When anchors are to be installed into existing masonry, the Contractor shall be responsible for field-testing the anchors prior to the fabrication of any materials to verify that the allowable loads as published by the anchor manufacturer, or those indicated on the Structural Drawings, are obtainable. The GC shall submit results of these tests to SDG for review and approval. The anchor sizes and spacings as shown in these documents are subject to change based on the results of the field tests.

CONCRETE

1. All concrete construction including detailing, fabrication, placement of reinforcing, mixing, handling, placing, finishing, and curing shall conform to ACI 'Structural Concrete for Buildings' (ACI 301), ACI 'Manual of Standard Practice for Detailing Reinforced Concrete Structures' (ACI-315), and 'ACI Building Code Requirements for Reinforced Concrete' (ACI-318).

2. All concrete shall conform to ASTM C94. Minimum compressive strength and maximum water/cement ratio shall be as follows:

1. Foundations, walls, slabs on grade: 3000 psi (0.58)
2. Exterior slabs on grade: 3500 psi (0.50)
3. Deck supported slabs: 3000 psi (0.58)

3. Maximum aggregate size for regular concrete shall be 3/4" and pea-gravel concrete shall be 3/8". Aggregate for regular weight concrete shall conform to ASTM C33 and lightweight concrete shall conform to ASTM C330.

4. All concrete exposed to the weather shall be air entrained with 6% +/- 1% air. All other concrete shall be air entrained with 4% +/- 1% air unless concrete is interior-exposed and is to receive a hard-trowled finish. Slump shall be 4" +/- 1".

5. Owner shall retain the services of a qualified testing agency to provide testing of concrete to include compressive strength, temperature, slump and air entrainment.

6. Contractor shall provide concrete mix design data for each type and strength of concrete shown in the structural drawings. The mix design data should include: concrete strength, slump, air entrainment, proposed aggregates, admixtures, and laboratory test data

REINFORCEMENT STEEL

1. All reinforcing steel except beam stirrups and column ties shall conform to ASTM-A615, Grade 60. Stirrups and ties shall conform to ASTM A615, Grade 40 unless noted otherwise.

2. Welded wire mesh to conform to ASTM-A185. and have minimum side and end laps of 8".

3. Fabricate and provide standard supporting accessories in accordance with the ACI Manual of Standard Practice for Detailing Reinforced Concrete Structures ACI 315.

4. Submit for approval shop drawings showing all reinforcing steel and placement. Provide locations of cold joints for extent of the concrete pour.

CONCRETE PROTECTION FOR REINFORCEMENT

1. Reinforcing bars and mesh to have concrete cover as follows:

Footings and other concrete poured against earth . . . . . 3"
Formed concrete exposed to earth for bars larger than #5 . . . . . 2"
Formed concrete exposed to earth for bars for #5 or smaller bars . . . . . 1 1/2"
Interior faces of walls . . . . . 1"
Slabs on ground to have reinforcement in top third of thickness.

STRUCTURAL STEEL

1. Structural steel shall be fabricated and erected in accordance with the latest AISC 'Specifications for Design, Fabrication and Erection of Structural Steel for Buildings'.

2. Structural steel shapes shall conform to the following:
W-shapes - ASTM A572 (Grade 50) or ASTM A992
Plates, Channels, Angles, Bars - ASTM A36 or ASTM A992
Pipes - ASTM A53 (Grade B)
HSS Rectangular/Square Structural Tubes - ASTM A500 (Grade B) - 46ksi
HSS Round Structural Tubes - ASTM A500 (Grade B)-42ksi or (Grade C)-46ksi

3. Shop and field connections shall be welded or made with 3/4" diameter high strength bolts conforming to ASTM A325 or ASTM A490. Anchor bolts shall conform to ASTM A307 UON. Anchor rods shall conform to ASTM F1554 (105ksi).

4. All welding shall conform to AWS Specifications.

5. No holes shall be located in flanges of beams or columns unless approved by the engineer. No field cutting of the steel members shall be permitted without prior authorization of the structural engineer.

6. Steel beams bearing on masonry or concrete walls shall have standard angle wall anchors.

7. Contractor shall submit shop drawings which adequately depict the structural elements in the contract documents. Provide standard AISC framed beam connections typical. Connections shall be designed for the service load reactions values shown on the structural drawings. For steel members whose reactions are not shown, the design reaction should be half of the allowable beam load found in AISC Tables (minimum of 10k).

8. The owner shall retain the services of a qualified inspector to inspect erected steel and connections.

9. Structural steel exposed to weather shall be galvanized.

10. Structural Steel members shall be shop painted / coated per project specifications. In the absence of project specifications, provide one coat of primer in compliance with manufacturer's instructions to surfaces except those to be galvanized, areas to be field welded, concealed by fireproofing, or embedded in concrete.

11. Splicing of structural steel members is prohibited without approval of location and splice design by the structural engineer.

WELDING

1. Shall be performed in accordance with the American Welding Society 'Standard Code for ARC and Gas Welding in Building Construction' (AWS D1.1), latest edition, and shall be performed by certified welders only.

2. All welds shall be 3/16" fillet welds unless otherwise noted. All partial and full penetration welds shall performed by welders certified to perform such welds. All partial and full penetration welds are subject to testing as directed by Engineer.

ROOF DECK

1. Shall be 3", 22 gage (or as otherwise indicated on the structural drawings), type N, painted, steel deck (unless project specifications indicate that roof deck shall be galvanized). Fasten roof deck by welding to structural members 12" oc at supports or as indicated on drawings. Lap deck 2" minimum. Weld side laps @ 18" o.c. or as shown on structural drawings. Side lap connections may be made with #10 self-tapping screws in lieu of welding unless indicated otherwise on the structural drawings. All welds shall be 5/8" diameter puddle welds. Provide welding washers if puddle welds are not achieving adequate connection to supporting members.

STEEL STAIRS

1. Extent of steel stairs to be detailed by miscellaneous metals fabricator as delineated on plan. See Arch. for miscellaneous details and additional information. Miscellaneous metals fabricator shall submit shop drawings for approval prior to fabrication.

CONSTRUCTION SET

ARCHITEC

ARCHITECTS

PROJECT:
Structural Design Group, Limited
Consulting Structural Engineers
12 South Summit Avenue Suite 110, Gaithersburg, MD 20877
Telephone (301) 987-9234 Fax (301) 987-9237

TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018
BUILDING ADDITION/RENOVATION

DRAWING TITLE:
STRUCTURAL NOTES

ISSUED:	
PERMIT / PRICING SET	02 FEBRUARY 05
ADDENDUM NO. 1	17 FEBRUARY 05
CONSTRUCTION SET	01 MARCH 05
CONSTRUCTION SET	18 APRIL 05

STAMP:
JEFFREY A. O'CONNELL NO. 19975 REGISTERED PROFESSIONAL ENGINEER
4-18-05

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdishi Barrow
Structural Engr. Section
Date

DRAWN BY:	MJW
DATE:	04/18/05
FOX PROJECT NO.:	SDG#D05000.00

DRAWING NUMBER
S0.1

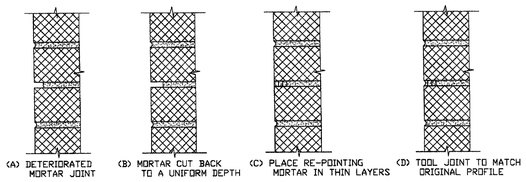
CONSTRUCTION SET

MASONRY REPAIR GUIDELINES

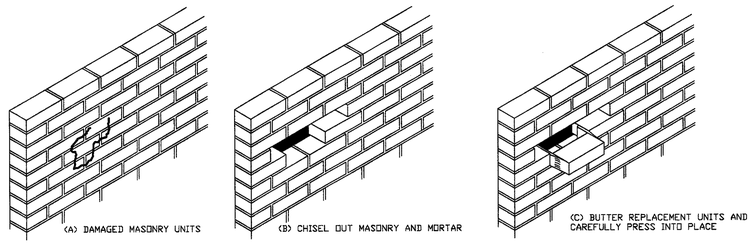
1. SAW CUT NEW CONTROL JOINT TO A MINIMUM DEPTH OF 3" EXTENDING FROM GRADE TO TOP OF PARAPET. REMOVE COPING SO THAT CONTROL JOINT CAN EXTEND TO TOP OF MASONRY. REWORK COPING TO PROVIDE A LAP JOINT OVER THE CONTROL JOINT SUCH THAT EACH PIECE OF COPING DOES NOT BRIDGE CONTROL JOINT. PROVIDE BACKER ROD AND SEALANT AT EXTERIOR FACE OF WALL. ALL CONTROL JOINTS SHALL BE A MINIMUM OF 2'-0" FROM EDGE OF OPENING OR CORNER OF BUILDING.

2. REMOVE ALL LOOSE AND DAMAGED MASONRY UNITS. CUT AND REMOVE ALL LOOSE, CRACKED, AND UNSOUND MORTAR. REPLACE EXISTING MASONRY UNITS WHICH ARE NOT DAMAGED IN FRESH MORTAR. PROVIDE NEW MASONRY UNITS THAT MATCH EXISTING TO REPLACE DAMAGED UNITS. REPOINT ALL JOINTS AS FOLLOWS:
   -PACK NEW MORTAR INTO JOINT IN THIN LAYERS UNTIL THE JOINT IS FULL.
   -WHEN MORTAR IS "THUMB PRINT" HARD, TOOL TO MATCH EXISTING.
   -MORTAR SHALL BE TYPE S CONFORMING TO THE PROPORTION SPECIFICATIONS OF ASTM C270. ONLY PORTLAND CEMENT / LIME MORTAR SHALL BE PERMITTED (NO MASONRY CEMENT SHALL BE PERMITTED).

3. PROVIDE BACKER ROD AND SEALANT AT EXTERIOR FACE OF WALL.



RE-POINTING MORTAR JOINTS



REPLACEMENT OF MASONRY UNITS

MASONRY

1. Solid masonry shall be Grade N1 in accordance with ASTM C-90 and may be 75% solid, U.O.N. Hollow masonry units shall be Grade N1 conforming to ASTM C-90. All mortar shall conform to ASTM C270, and shall be Portland cement / lime mortar. Masonry cement shall not be acceptable.

2. Mortar in bearing walls shall be type 'S'. Mortar in non-bearing walls may be type 'N'. Mortar below grade shall be type 'M'. All mortar joints in masonry walls (horizontal & vertical) shall be filled 100% with mortar. Provide care to eliminate excessive mortar in air space of cavity walls.

3. Provide damp-proofing on exterior face of masonry walls below grade.

4. Provide a minimum of 3 courses of solid brick, one course 100% solid block, or a continuous bond beam at bearing of joists, bearing walls or supported slabs.

5. Provide control joints in masonry walls at 30'-0" maximum or as shown on Architectural drawings.

6. All portions of bearing walls having a horizontal cross section of 4 square feet or less shall be of solid masonry down to footings.

7. Provide horizontal masonry reinforcing (DUR-O-WALL or equal) at 16" o.c. in all masonry walls U.O.N.

8. Use buckets to measure materials for mixing mortar. Grout shall be sand and cement, 8 bags of cement per cubic yard.

9. Provide 12 gage galvanized masonry straps with 3/16" diameter ties @ 24" o/c horizontally and 16" o.c. vertically between veneer walls and back-up. Masonry tie assemblies shall be screwed (not nailed) to wood and lightgage stud backup. Provide dovetail anchor slots at 24" o.c. where masonry abuts concrete.

10. The owner shall retain the services of a qualified inspector to inspect all masonry construction in accordance with Level 2 Quality Assurance as defined by ACI 530-99/ ASCE 5-99 / TMS 402-99.

11. Contractor shall provide Tests and Submittals in accordance with Level 2 Quality Assurance as defined by ACI 530-99/ ASCE 5-99 / TMS 402-99.

REINFORCED MASONRY

1. Shall be constructed as follows:
   - All cells line up
   - Provide clean-out holes above the footing in block cells to be reinforced
   - Break all mortar protruding into block cells with the reinforcing rod and remove loose mortar
   - Fill cells containing reinforcing with 3000 psi pea-gravel grout.

LINTELS

1. Provide precast lightweight concrete lintels for all openings and recesses in concrete masonry unit walls as follows:
   - one 4x8 lintel for each 4" of wall thickness.
   - one 6x8 lintel for each 6" of wall thickness.

Reinforce each lintel unit with one #4 rebar top and bottom with #3 stirrups @ 8" oc. Concrete lintel units shall have 8" minimum bearing at ends and may be used for openings up to 8'-0".

2. For brick or face CMU, provide a steel angle for each 4" of wall thickness as follows:
   - L3 1/2 x 3 1/2 x 5/16" for openings up to 4'-0"
   - L4 x 3 1/2 x 5/16" for openings 4'-1" to 6'-0"
   - L5 x 3 1/2 x 5/16" for openings 6'-1" to 8'-0".

Provide 6" minimum bearing each end.

SLABS ON GRADE

1. Except where otherwise noted, shall be 4" thick, reinforced with 6x6 - W1.4xW1.4 (6x6 - 10/10) WWM. Lap mesh 8" in each direction. Slab reinforcement shall be located in top third of slab thickness.

2. Provide control joints at 15'-0" oc each way in all slabs on grade. Control joints shall be sawcut within 4 hours after finishing or shall be a pre-fabricated mechanical joint.

3. Interior slabs shall be laid on a layer of 6 mil. polyethylene over a 4" layer of washed gravel unless otherwise recommended in Geotechnical report.

4. See Geotechnical report for recommendations relative to preparation of subgrade.

FLOOR SLAB OVER STEEL DECK

1. Shall be poured Normalweight concrete on 2"x20gage composite steel deck with the following minimum properties: I= 0.338 in^4; Sp = 0.284in^3; Sn =0.302in^3.

2. The deck shall be phosphatized on top side and painted on bottom side. Reinforce concrete slab as shown on plans.

3. The deck shall be placed in a 3 span minimum condition unless shown otherwise.

4. Slab reinforcing shall be draped such that the mesh is within 1" of top of slab over supports and placed in bottom third of slab thickness midway between supports.

5. Slab thickness as shown on plan and/or plan notes is minimum slab thickness to be provided. Contractor shall provide additional concrete as required to pour to finish floor elevation taking steel structure deflection into consideration.

BACKFILL

1. Shall not be placed against walls until top of wall is either temporarily braced or permanently braced with floor system. If floor system is a concrete slab, the floor system concrete must have achieved 75% of design strength prior toplacement of backfill. Where backfill is required on both sides of walls, backfill both sides simultaneously.

SUMP PUMPS

1. Are to be provided during construction as required to control surface water and after construction as permanent means of controlling underground water. Pump size and location to be determined by Plumbing Engineer.

SHOP DRAWINGS

1. Shall be submitted by the contractor to the Architect for approval. The Architect shall forward all structural related shop drawings to the Structural Engineer for his review. Shop drawings are reviewed as a convenience to the contractor and shall not relieve the contractor of his responsibility to construct the buildings or structures in accordance with the contract documents , Specifications and all applicable building codes. The contractor shall review all shop drawings prior to submitting to the Architect to coordinate all quantities, lengths, sizes, grades, dimensions, etc. with the contract documents.

EXISTING CONDITIONS

1. The drawings may reflect information provided by others and/or existing conditions that have been surveyed and/or documented to the greatest possible extent but not verified. It shall be the Contractor's responsibility to fully coordinate the work, including, but not necessarily limited to, the verification of all existing conditions shown in the drawings, coordination of all necessary building trades, etc. Any and all conditions that are mis-represented in these documents, or any conditions that are not shown but warrant the attention of the Architect and/or Engineer, shall be immediately brought to the attention of the Architect and/or Engineer.

2. Means and methods of construction and temporary shoring and bracing of the existing structure(s) are the sole responsibility of the Contractor. The Engineer may include phasing, sequencing, shoring requirements, etc. in the Construction Documents to alert, assist, or otherwise dictate procedural requirements that may be necessary to properly implement the structural portion of the work or that may be required to insure building stability; however, the Contractor shall properly coordinate these requirements and shall remain completely and solely responsible for erecting the building structure in a safe and timely manner.

3. Unless otherwise indicated, it has been assumed that the existing structure(s) are in serviceable condition. The Contractor shall immediately notify the Engineer of any and all areas of structural distress (including, but not limited to, cracks, spalling, etc.) not indicated in the Structural Drawings. The Contractor shall not proceed with work in such areas without direction from the Engineer.

LIGHTGAGE STEEL FRAMING

1. Shall conform to AISI "Design of Cold Formed Steel Structural Members". Material shall conform to ASTM A653. 20 and 18 gage products shall have a minimum yield stress of 33 ksi 16 gage and thicker material shall have a minimum yield stress of 50 ksi.

2. Galvanized coating shall be G60 conforming to ASTM A924.

3. Member sizes and gages shown on drawings have been designed based on an assumed manufacturer's literature. Submit signed and sealed structural calculations, signed and sealed shop drawings, and selected manufacturer's literature for approval, prior to starting work.

CONSTRUCTION SET

FOX ARCHITECTS
Structural Design Group, Limited
Consulting Structural Engineers
12 South Summit Avenue Suite 110, Gaithersburg, MD 20877
Telephone (301) 987-9234 Fax (301) 987-9237

PROJECT:

TREE OF LIFE - PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018
BUILDING ADDITION/RENOVATION

DRAWING TITLE:

STRUCTURAL NOTES

ISSUED:	
PERMIT / PRICING SET	02 FEBRUARY 05
ADDENDUM NO. 1	17 FEBRUARY 05
CONSTRUCTION SET	01 MARCH 05
CONSTRUCTION SET	18 APRIL 05

STAMP: DISTRICT OF COLUMBIA REGISTERED PROFESSIONAL ENGINEER 4/18/05

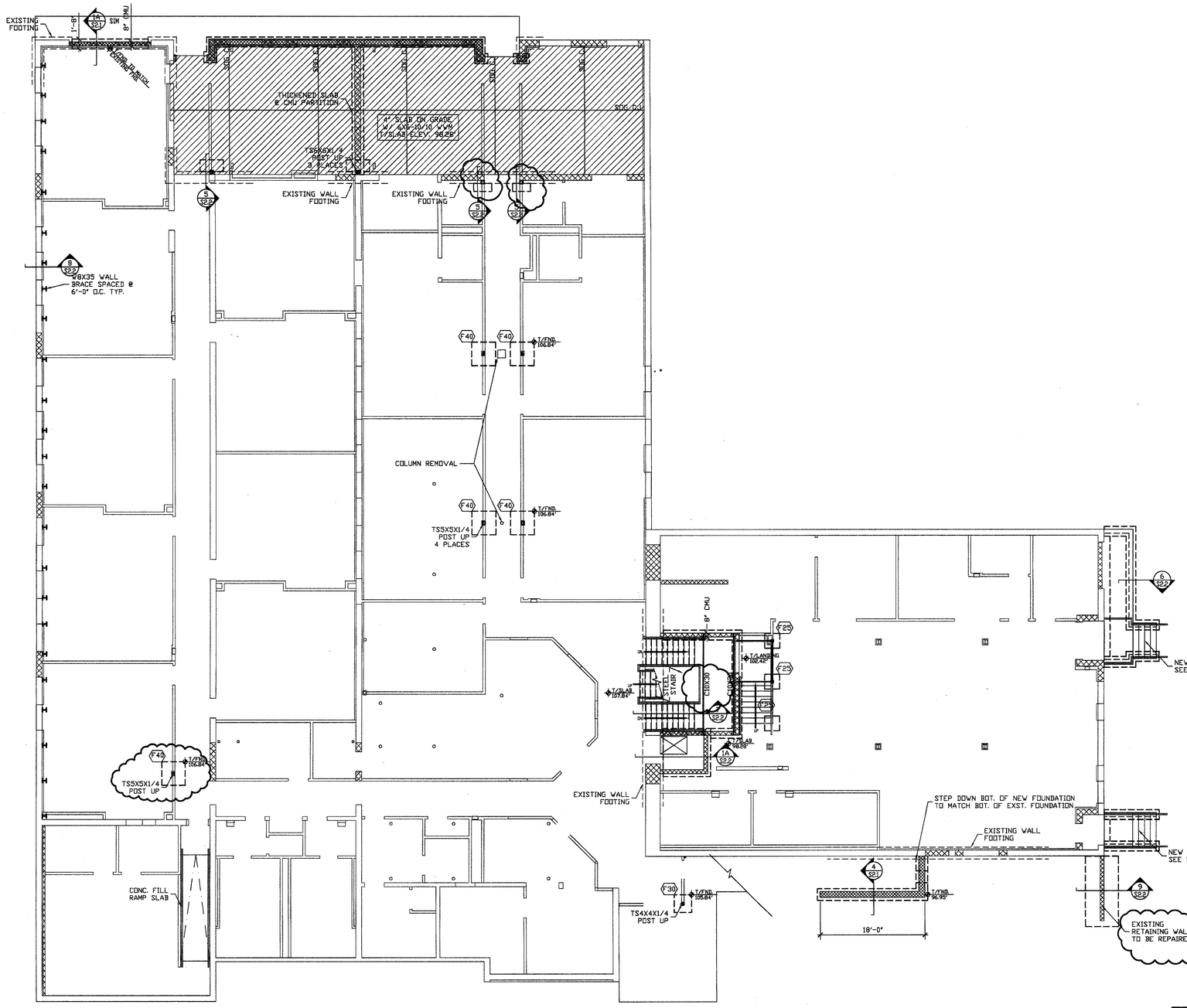
DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION

Abdellahi Barrow
Structural Engr. Section
Date

DRAWN BY:	MJW
DATE:	04/18/05
FOX PROJECT NO.:	SDG#D05000.00

DRAWING NUMBER
S0.2

CONSTRUCTION SET



1 GROUND & 1ST FLOOR FOUNDATION PLAN
SCALE: 1/8"=1'-0"

SQUARE FOUNDATION SCHEDULE
(ALLOWABLE BEARING PRESSURE = 2000PSF)

MARK	SIZE (SQ)	DEPTH	REINF. (EW)
F25	2'-6"	12"	(3) #4
F40	4'-0"	12"	(5) #4

CONSTRUCTION SET

ARCHITECTS

PROJECT:

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Consulting Structural Engineers
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TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
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DRAWING TITLE:

GROUND & 1ST FLOOR FRAMING PLAN

ISSUED:	
PERMIT / PRICING SET	02 FEBRUARY 05
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CONSTRUCTION SET	18 APRIL 05

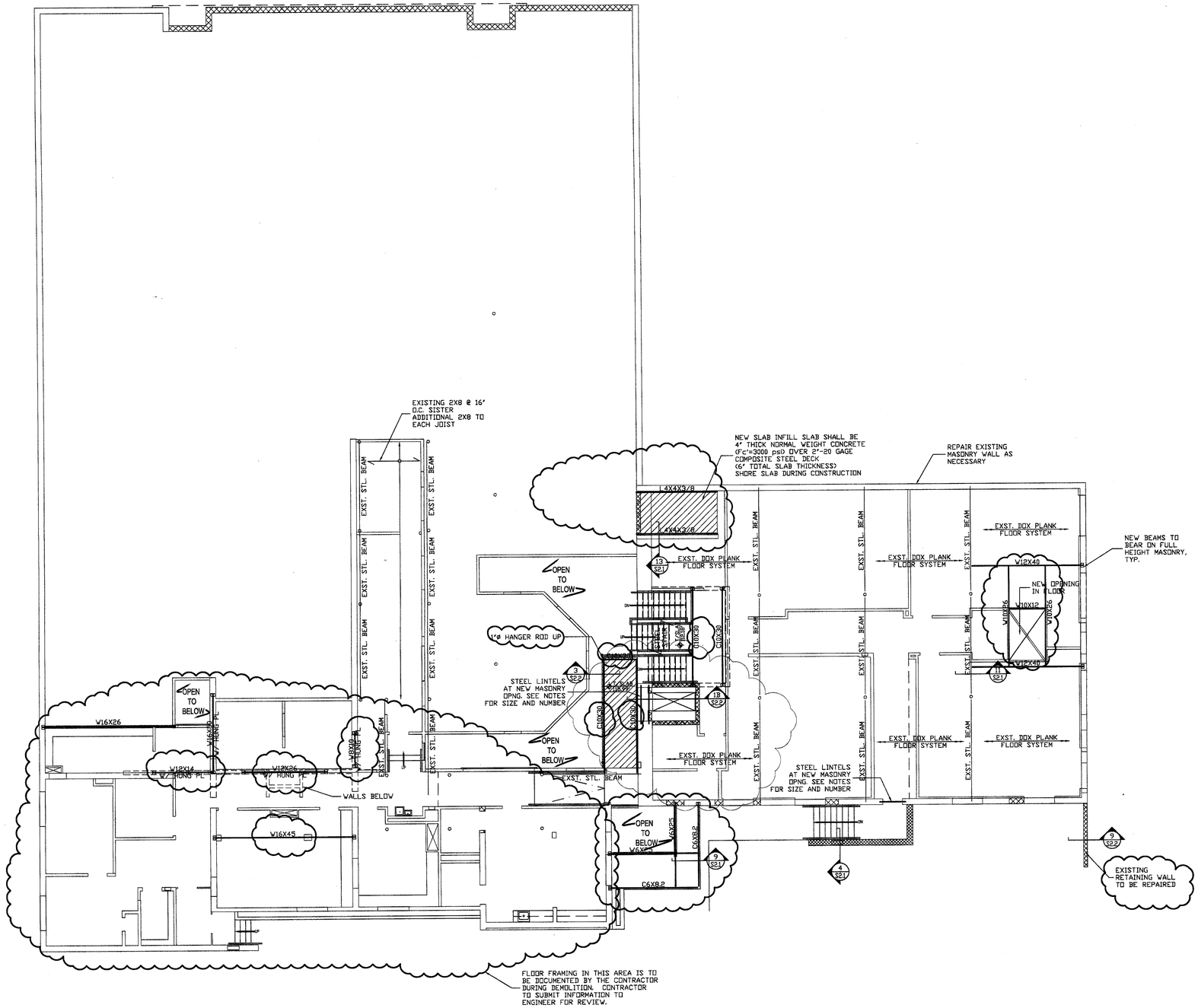
STAMP:
DISTRICT OF COLUMBIA
HENRY V. OBERLANDER
No. 10583
REGISTERED
PROFESSIONAL ENGINEER
4-18-05

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdullah Barrow
Structural Engr. Section
Date

DRAWN BY:	MJW
DATE:	04/18/05
FOX PROJECT NO.:	SDG#D05000.00

DRAWING NUMBER
S1.1

CONSTRUCTION SET



1 2ND & MEZZANINE FLOOR FRAMING PLAN
SCALE: 1/8"=1'-0"

CONSTRUCTION SET

ARCHITECTS

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PROJECT:

TREE OF LIFE - PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018
BUILDING ADDITION/RENOVATION

DRAWING TITLE:

2ND & MEZZANINE FLOOR FRAMING PLAN

ISSUED:	
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ADDENDUM NO. 1	17 FEBRUARY 05
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CONSTRUCTION SET	18 APRIL 05

STAMP:

DISTRICT OF COLUMBIA
JEFFREY N. OVERHOLT
REGISTERED PROFESSIONAL ENGINEER
4.18.05

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
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Abdullah Berrow
Structural Engr Section
Date

DRAWN BY:	MJW
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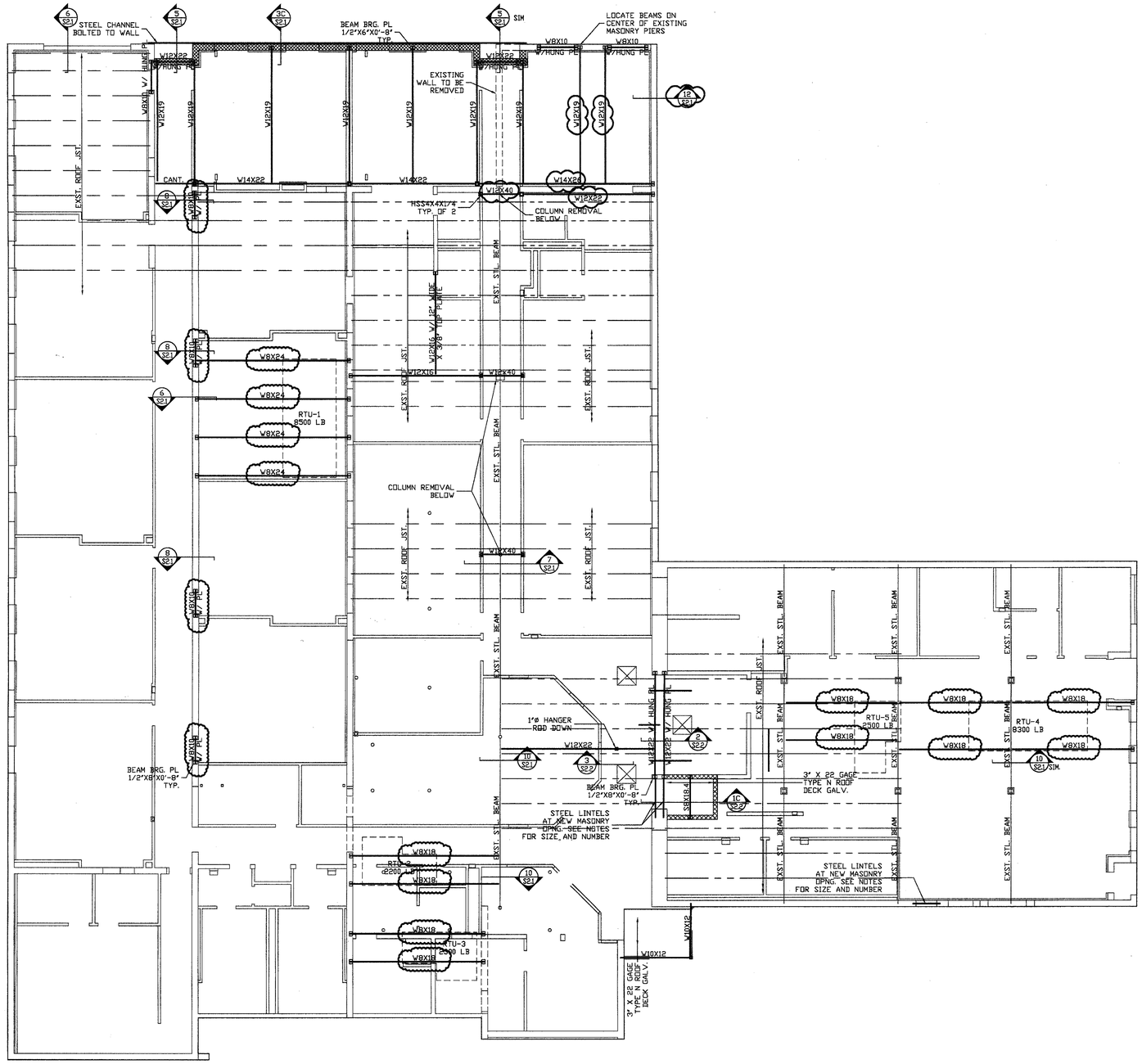
FOX PROJECT NO.:	SDG#D05000.00

DRAWING NUMBER
S1.2

CONSTRUCTION SET

CLASSROOM ROOF NOTES

1. ROOF CONSTRUCTION SHALL BE 3"x 22 GAGE, TYPE N GALVANIZED STEEL ROOF DECK. TOP OF STEEL ELEVATION SHALL BE 122.55'.



1 ROOF FRAMING PLAN

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

PLAN NOTES:

1. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATING STEEL BEAMS.
2. VERIFY PURCHASED MECHANICAL UNIT WEIGHTS WITH THOSE SHOWN ON PLAN.
3. COORDINATE LOCATIONS OF NEW STEEL BEAMS SUPPORTING MECHANICAL UNITS WITH EXISTING ROOF JOISTS.
4. COORDINATE MECHANICAL UNIT LOCATIONS WITH ARCHITECTURAL DRAWINGS.

FOX ARCHITECTS
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TREE OF LIFE -
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2315 18TH PLACE NE.
WASHINGTON DC. 20018
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DRAWING TITLE:

ROOF FRAMING PLAN

ISSUED:	
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4-18-05

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PERMIT PROCESSING DIVISION
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Abdullahi Barrow
Structural Engr. Section
Date

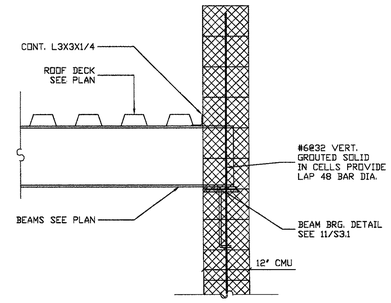
DRAWN BY:	MJW
DATE:	04/18/05
FOX PROJECT NO.:	SDG#D05000.00

DRAWING NUMBER
S1.3

CONSTRUCTION SET

1C S2.1 NOT USED
SCALE: 3/4" = 1'-0"

2C S2.1 NOT USED
SCALE: 3/4" = 1'-0"



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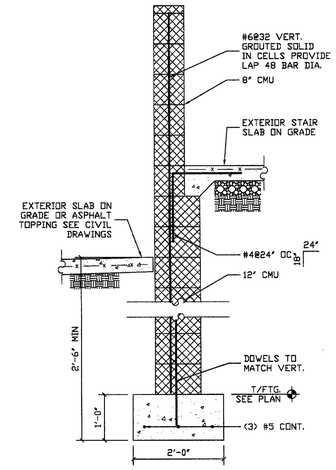
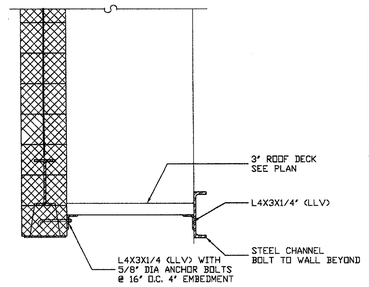


4 S2.1 SECTION
SCALE: 3/4" = 1'-0"

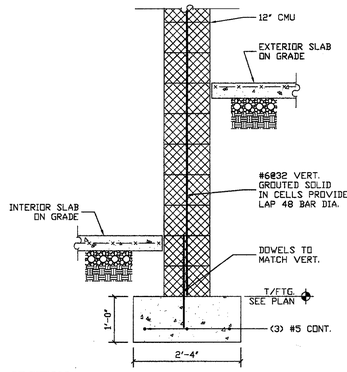


5 S2.1 SECTION
SCALE: 3/4" = 1'-0"

1B S2.1 NOT USED
SCALE: 3/4" = 1'-0"

2B S2.1 NOT USED
SCALE: 3/4" = 1'-0"

3B S2.1 NOT USED
SCALE: 3/4" = 1'-0"



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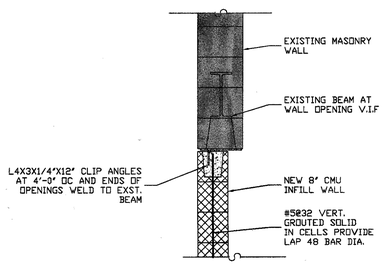

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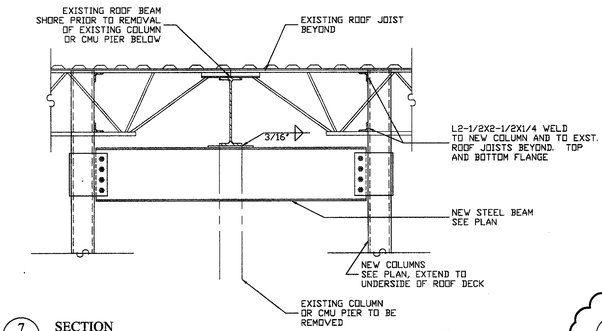

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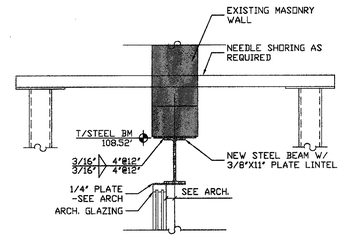

8 S2.1 SECTION
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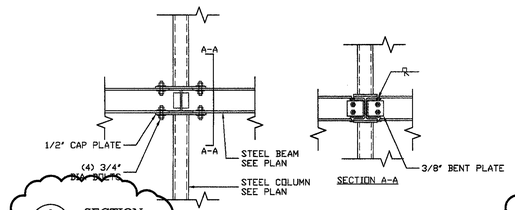

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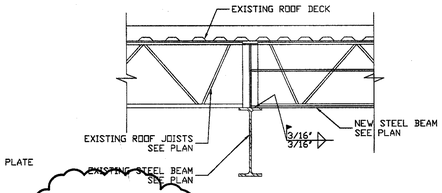

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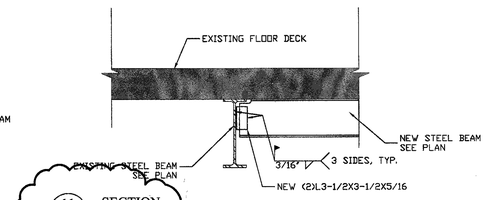

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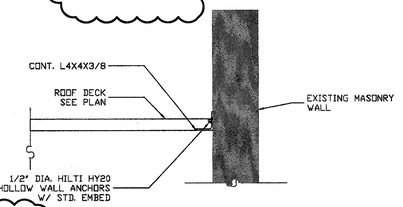

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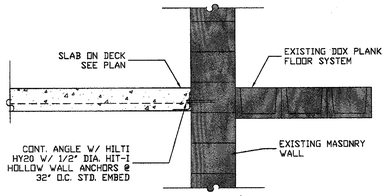


13 S2.1 SECTION
SCALE: 3/4" = 1'-0"

CONSTRUCTION SET

FOX ARCHITECTS

Structural Design Group, Limited
Consulting Structural Engineers
12 South Summit Avenue Suite 110, Gaithersburg, MD 20877
Telephone (301) 987-9234 Fax (301) 987-9237

PROJECT:

TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018
BUILDING ADDITION/RENOVATION

DRAWING TITLE:

SECTIONS AND DETAILS

ISSUED:	
PERMIT / PRICING SET	02 FEBRUARY 05
ADDENDUM NO. 1	17 FEBRUARY 05
CONSTRUCTION SET	01 MARCH 05
CONSTRUCTION SET	18 APRIL 05

STAMP:

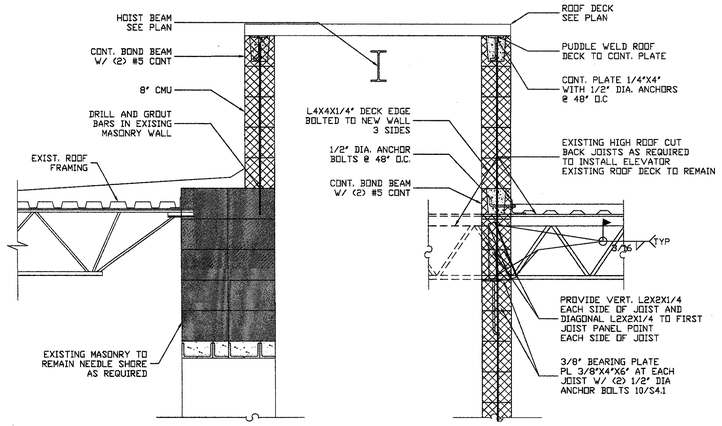
JEFFREY R. GRIMMER No. 25261 REGISTERED PROFESSIONAL ENGINEER
4-18-05

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdullahi Barrow
Structural Engr. Section

DRAWN BY:	MJW
DATE:	04/18/05
FOX PROJECT NO.:	SDG#D05000.00

DRAWING NUMBER
S2.1

CONSTRUCTION SET



1C S2.2 ELEVATOR SECTION
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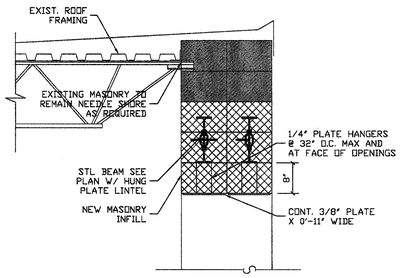

2 S2.2 ELEVATOR SECTION
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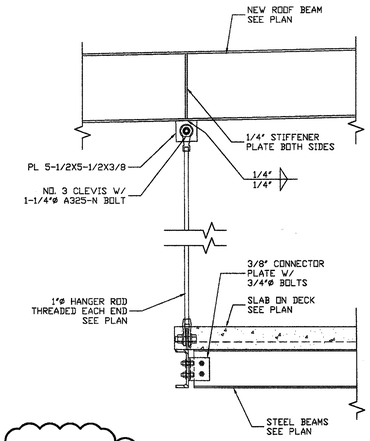
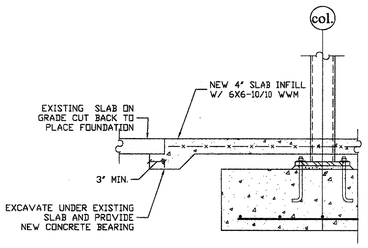
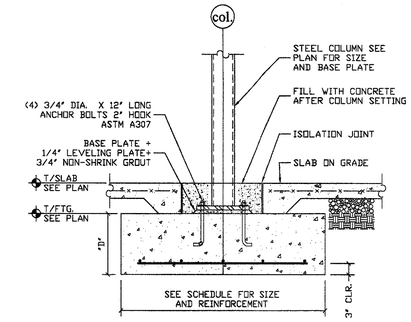


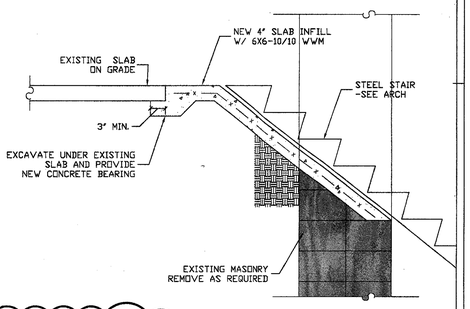
3 S2.2 ELEVATOR SECTION
SCALE: 3/4" = 1'-0"



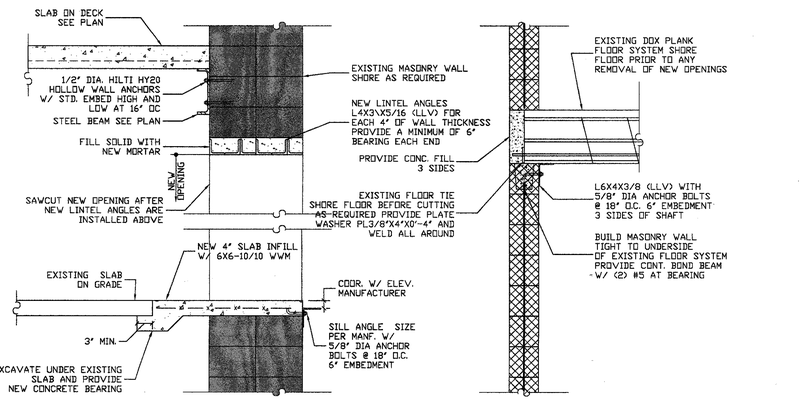
SPREAD FOUNDATION @ EXISTING SLAB



4 S2.2 TYPICAL SPREAD FOUNDATION DETAIL



7 S2.2 STAIR SECTION
SCALE: 3/4" = 1'-0"



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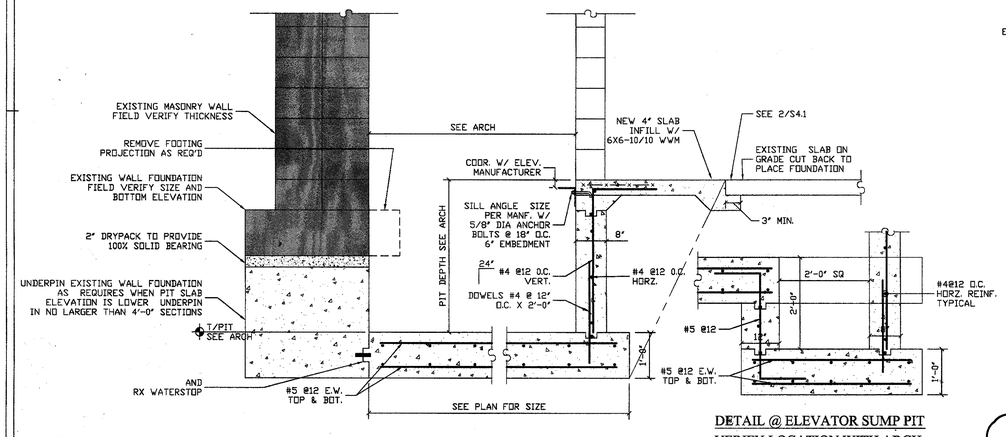
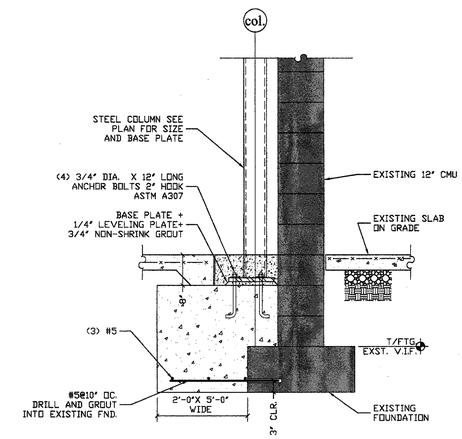
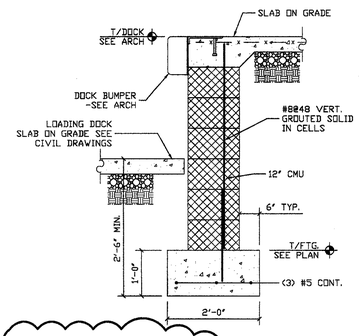


DETAIL @ ELEVATOR SUMP PIT
VERIFY LOCATION WITH ARCH.

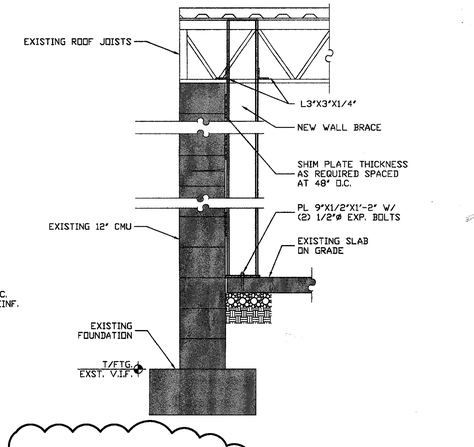
1A S2.2 ELEVATOR PIT DETAIL
SCALE: 3/4" = 1'-0"



5 S2.2 SECTION
SCALE: 3/4" = 1'-0"



6 S2.2 LOADING DOCK SECTION
SCALE: 3/4" = 1'-0"



8 S2.2 SECTION
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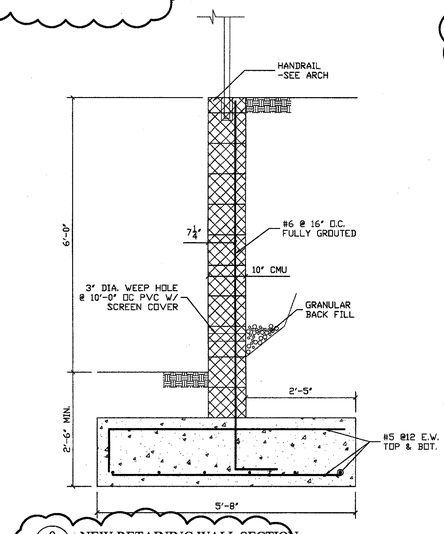

9 S2.2 NEW RETAINING WALL SECTION

NOTES:
1. WALLS ARE DESIGNED FOR A 100PSF SURCHARGE.
2. FILL CELLS CONTAINING REINFORCEMENT WITH 3000PSI CONCRETE.
3. DO NOT SPLICE VERTICAL REINFORCEMENT BARS.

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PROJECT:
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Consulting Structural Engineers
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TREE OF LIFE - PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018
BUILDING ADDITION/RENOVATION

DRAWING TITLE:
SECTIONS AND DETAILS

ISSUED:	
PERMIT / PRICING SET	02 FEBRUARY 05
ADDENDUM NO. 1	17 FEBRUARY 05
CONSTRUCTION SET	01 MARCH 05
CONSTRUCTION SET	18 APRIL 05

STAMP:
DISTRICT OF COLUMBIA REGISTERED PROFESSIONAL ENGINEER NO. 6993 4-18-05

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE FURTHER APPROVAL OF CONSTRUCTION
Abdullahi Barrow
Structural Engr. Section
Date

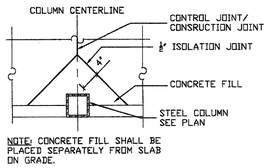
DRAWN BY:	MJW
DATE:	04/18/05
FOX PROJECT NO.:	SDG#D05000.00

DRAWING NUMBER
S2.2

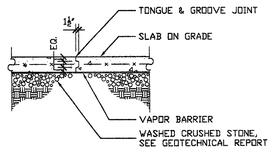
ARCHITEC

CONSTRUCTION SET

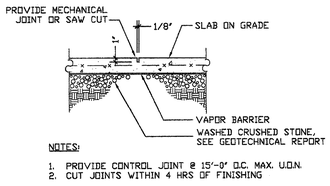
CONSTRUCTION SET



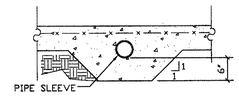
1 / S3.1 TYPICAL COLUMN ISOLATION JOINT DETAIL AT EXTERIOR COLUMNS



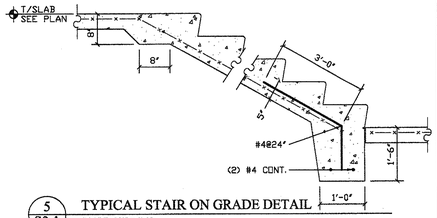
2 / S3.1 TYPICAL SLAB ON GRADE CONSTRUCTION JOINT DETAIL



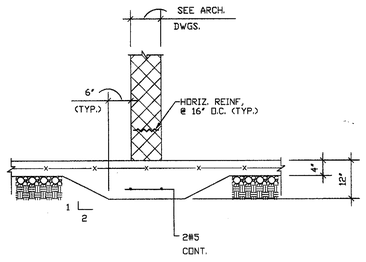
3 / S3.1 TYPICAL SLAB ON GRADE CONTROL JOINT DETAIL



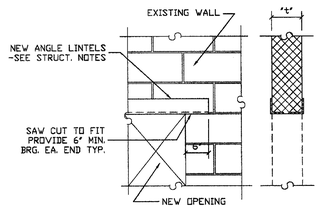
4 / S3.1 TYPICAL PIPE SLEEVE THROUGH CONTINUOUS FOOTING DETAIL



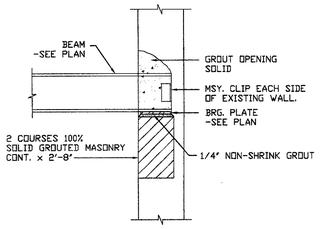
5 / S3.1 TYPICAL STAIR ON GRADE DETAIL
SCALE: 3/4" = 1'-0"



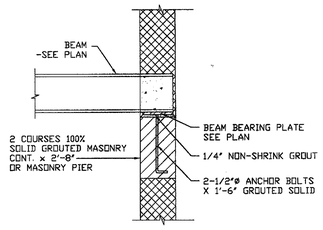
6 / S3.1 TYPICAL THICKENED SLAB FOR NON-BEARING WALL DETAIL



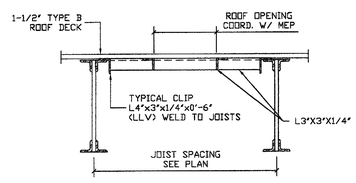
7 / S3.1 TYPICAL NEW OPENING IN AN EXISTING MASONRY WALL DETAIL



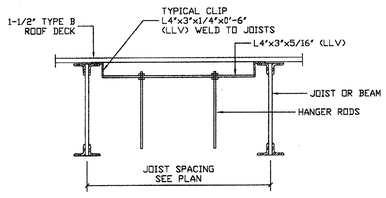
11 / S3.1 NEW STEEL BEAM BEARING ON EXISTING MASONRY WALL DETAIL
SCALE: 3/4" = 1'-0"



12 / S3.1 NEW STEEL BEAM BEARING ON MASONRY WALL DETAIL
SCALE: 3/4" = 1'-0"

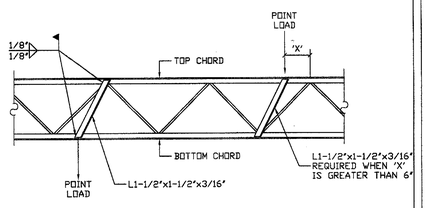


13 / S3.1 TYPICAL ROOF OPENING DETAIL

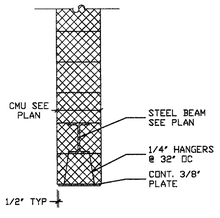


14 / S3.1 TYPICAL SUPPORT OF CEILING HUNG MECH. EQUIPMENT @ ROOF DETAIL

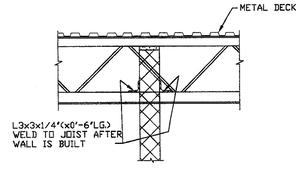
NOTES:
1. SUPPORTS SHALL BE AT THE TOP CHORD PANEL POINTS OF JOISTS. SEE TYPICAL JOIST REINFORCING DETAILS.

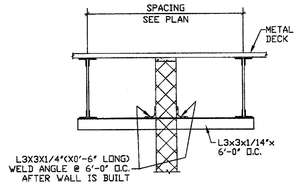


15 / S3.1 TYPICAL STEEL JOIST REINFORCING @ POINT LOAD DETAIL



16 / S3.1 TYP. HUNG PLATE LINTEL





17 / S3.1 TYPICAL LATERAL SUPPORT OF INTERIOR MASONRY WALLS
SCALE: 3/4" = 1'-0"

FOX ARCHITECTS
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Consulting Structural Engineers
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PROJECT:
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DRAWING TITLE:
TYPICAL DETAILS

ISSUED:	
PERMIT / PRICING SET	02 FEBRUARY 05
ADDENDUM NO. 1	17 FEBRUARY 05
CONSTRUCTION SET	01 MARCH 05
CONSTRUCTION SET	18 APRIL 05

STAMP: JEFFREY M. HOLLOWAY REGISTERED PROFESSIONAL ENGINEER 4.18.05

DISTRICT OF COLUMBIA
PERMIT PROCESSING DIVISION
STRUCTURAL WORK IN GENERAL
APPROVED SUBJECT TO THE
FURTHER APPROVAL OF CONSTRUCTION
Abdullahi Barrow
Structural Engr. Section
Date

DRAWN BY:	MJW
DATE:	04/18/05
FOX PROJECT NO.:	SDG#005000.00

DRAWING NUMBER
S3.1

CONSTRUCTION SET

MECHANICAL ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
ARCH	ARCHITECTURAL
BTUH	BRITISH THERMAL UNITS PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
COND	CONDENSATE
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
(E)	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
°F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FL	FLOOR
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FEET
HP	HORSEPOWER
IN	INCHES
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
MCA	MINIMUM CIRCUIT AMPS
MBH	THOUSAND BTU PER HOUR
MD	MOTORIZED DAMPER
OA	OUTSIDE AIR
OBD	OPPOSED BLADE VOLUME DAMPER
PH	PHASE
QTY	QUANTITY
RA	RETURN AIR
RF	RETURN FAN
RLA	RATED LOAD AMPS
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN
SD	SMOKE DAMPER
SFD	SMOKE AND FIRE DAMPER
SL	SOUND LINING
SP	STATIC PRESSURE
SQ	SQUARE
TG	TRANSFER GRILLE
TYP	TYPICAL
V	VOLTS
VAV	VARIABLE AIR VOLUME
w/	WITH
WB	WET BULB
WG	WATER GAUGE

MECHANICAL SYMBOLS

- SUPPLY AIR DEVICE (SQUARE AND ROUND)
- RETURN AIR DEVICE
- EXHAUST AIR DEVICE
- DUCTWORK
- SOUND LINED DUCT
- DUCT DROP OR RISE IN DIRECTION SHOWN
- FLEXIBLE CONNECTION
- ELBOW WITH TURNING VANES
- CONICAL TAP
- SD — SMOKE DAMPER (SD)
- FD — FIRE DAMPER (FD)
- VD — VOLUME DAMPER (V.D.)
- MD — MOTORIZED DAMPER (M.D.)
- REMOTE TEMPERATURE SENSOR
- AIR OUT OF AIR TERMINAL
- AIR INTO AIR TERMINAL
- –RS– REFRIGERANT SUCTION
- –RL– REFRIGERATION LIQUID
- –D– CONDENSATE DRAIN
- PITCH PIPING DOWN IN DIRECTION SHOWN
- PIPE TURNING UP
- PIPE TURNING DOWN
- SMOKE WALL
- T — THERMOSTAT (WITH GAURD)
- ø — ROUND
- FLAT OVAL
- S — DUCT SMOKE DETECTOR
- VAV BOX TYPE
- VAV BOX NECK SIZE
- VAV BOX KW

MECHANICAL GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR SUPPORT DETAILS OF ALL ROOF MOUNTED EQUIPMENT AND FOR THE LOCATION OF DUCTS THROUGH ROOF.

2. MOUNT AND CONNECT EACH ITEM OF EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3. LOCATION OF EQUIPMENT, PIPING, AND OTHER MECHANICAL WORK IS INDICATED DIAGRAMMATICALLY BY THE DRAWINGS. DETERMINE EXACT LOCATIONS ON THE JOB SITE, SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF OTHER CONTRACTORS.

4. COORDINATE ROOF CURB HEIGHTS AND TYPE WITH CONSTRUCTION PRIOR TO ORDERING EQUIPMENT.

5. CONTRACTOR SHALL, AFTER INSTALLATION AND START–UP, THOROUGHLY CHECK EACH ITEM OF EQUIPMENT FOR VIBRATION TRANSMISSION TO THE STRUCTURE OR EXCESSIVE NOISE. IF EITHER OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE FAULTY SITUATION IMMEDIATELY.

6. WHEREVER PIPES, CONDUITS OR OTHER ITEMS PASS THROUGH FIRE RATED WALLS AND FLOORS, THE CONTRACTOR SHALL ADEQUATELY FIRE STOP THE SPACE BETWEEN THE ITEMS AND THE MASONRY OR THE SPACE BETWEEN THE ITEM AND SLEEVE. FIRE STOP SHALL BE A NON– COMBUSTIBLE, NON–MELTING, APPROVED MATERIAL.

7. ALL EXISTING EQUIPMENT, OTHER THAN DUCTWORK, WIRING AND AIR TERMINALS, REMOVED SHALL BECOME THE PROPERTY OF THE OWNER AND SHALL BE REMOVED, STORED, OR DISPOSED OF AT THE DIRECTION OF THE OWNER.

8. ALL OPENINGS IN WALLS, CEILINGS AND FLOORS RESULTING FROM DUCT DEMOLITION SHALL BE CLOSED AND FINISHED TO MATCH THE SURROUNDING AREAS BY THE GENERAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING LOCATIONS.

9. PROVIDE ACCESS PANELS IN DUCTWORK IN A LOCATION TO SERVICE FIRE DAMPERS AND SMOKE DAMPERS. ACCESS PANELS SHALL BE OF THE INSULATED DOOR TYPE ON ALL INSULATED DUCTS AND SHALL NOT BE COVERED BY DUCT INSULATION. ACCESS PANELS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. MINIMUM SIZE OF ACCESS PANELS SHALL BE 12" X 12" EXCEPT WHERE DUCT IS LESS THAN 14" WIDE IN WHICH CASE ONE DIMENSION SHALL BE 12" AND THE OTHER SHALL BE 2" LESS THAN THE DUCT WIDTH. ACCESS DOORS SHALL BE ACCESSIBLE.

10. COORDINATE MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO SUBMISSION OF SHOP DRAWINGS. DEVIATIONS FROM THE MECHANICAL EQUIPMENT "BASIS OF DESIGN" OR "PROTOTYPE" ELECTRICAL DATA SHALL BE AT NO COST TO THE OWNER.

11. POWER FOR VAV BOX CONTROLS AND ACTUATORS SHALL BE THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR. ALL WIRING ABOVE 24 VOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS AND THE "NATIONAL ELECTRIC CODE".

12. PROVIDE EXTERNAL TRAPS FOR CONDENSATE DRAIN LINES WHICH ARE NOT INTERNALLY TRAPPED.

13. RUN CONDENSATE DRAIN LINE FROM ROOFTOP UNITS TOWARDS NEAREST ROOF DRAIN.

14. PROAVIDE MANUAL MOTOR DISCONNECT SWITCH UNDER THE UTILITY VENT SET WEATHERPROOFED MOTOR HOUSING.

15. RUN ALL DUCTWORK TIGHT TO UNDERSIDE OF STRUCTURE ABOVE UNLESS OTHERWISE INDICATED.

16. ALL DUCT RUNOUTS ABOVE DRYWALL CEILINGS AND ALL EXPOSED DUCTWORK SHALL BE OF SHEET METAL CONSTRUCTION (NO FLEXIBLE DUCTWORK IS PERMITTED).

17.INSULATE SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK. DUCTWORK INDICATED TO BE SOUND LINED SHALL NOT BE EXTERNALLY INSULATED IN ADDITION TO SOUND LINING.

18. PROVIDE 1/2" WIRE MESH SCREEN ON OPEN END DUCTS.

19. PROVIDE TEMPERATURE SENSORS WITH LOCKABLE CLEAR LEXAN GUARD. GUARD SHALL BE KENDALL MODEL TG OR APPROVED EQUAL.

21. PROVIDE VOLUME DAMPERS AT EACH BRANCH TAKE–OFF FROM MAIN SUPPLY, RETURN AND EXHAUST DUCT.

22. AIR DEVICE NECK SIZES SHALL BE AS INDICATED ON DRAWINGS. DUCT DROPS SHALL BE CLOSELY COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH LIGHTING FIXTURES, ETC.

23. ANY CHANGES TO DUCT SIZES DUE TO FIELD CONDITIONS SHALL BE MADE ONLY IF THE DUCT SIZE FREE AREA IS MAINTAINED AND SUBMITTED TO ENGINEER FOR APPROVAL.

24. PENETRATIONS THROUGH ROOF SHALL BE WATERTIGHT.

25. PROVIDE TURNING VANES IN ALL MITERED ELBOWS.

28. SOUND LINE ALL SUPPLY AND RETURN AIR DUCTS AS SPECIFIED AND SHOWN ON DRAWINGS. LINING SHALL MEET THE SAFETY STANDARDS AS ESTABLISHED BY NFPA 90A.

29. CONNECT ALL DUCTWORK TO EQUIPMENT WITH FLEXIBLE CONNECTIONS.

30. PROVIDE SMOKE DAMPER DUCTS PENETRATING SMOKE PARTITIONS AND AS INDICATED ON DRAWINGS. INTERLOCK SMOKE DAMPER WITH FIRE ALARM SYSTEM.

31. INSULATION OF DUCTWORK THROUGH NON–RATED WALLS SHALL BE CONTINUOUS THROUGH THE WALL PENETRATION.

32. EXPOSED ROUND DUCTWORK SHALL BE LOCKED SPIRAL SEAM TYPE.

33. FURNISH AND INSTALL ALL DUCT HANGERS AND SUPPORTS IN ACCORDANCE WITH SECTION IV OF "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE" AS PUBLISHED BY SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA), LATEST EDITION.

34. PROVIDE COMBINATION FIRE/SMOKE DAMPERS WHERE DUCT PENETRATE SMOKE WALLS. INTERLOCK DAMPER MOTORS WITH AIR HANDLING UNIT OR EXHAUST FAN SERVING THE DUCT SYSTEM.

35. PROVIDE FIRE DAMPERS IN RATED WALLS AND AS INDICATED ON DRAWINGS.

36. THE BOTTOM OF THE OUTSIDE AIR INTAKE OPENING LOCATED A MINIMUM OF 3'–0" ABOVE THE ROOF. EXTEND OUTSIDE AIR INTAKE ON RTU AS REQUIRED TO BE 3'–0" ABOVE ROOF.

37. DUCTWORK RUNNING PARALLEL TO A FIRE RATED WALL SHALL BE A MINIMUM OF 6" AWAY FROM THE WALL.

38. COORDINATE DUCTWORK LAYOUTS WITH ACTUAL ROOF TRUSS ARRANGEMENTS. PROPOSED DUCTWORK DRAWINGS SHALL BE SUBMITTED TO THE MECHANICAL ENGINEER BEFORE FABRICATING ANY DUCTWORK OR ORDERING ANY MECHANICAL EQUIPMENT.

39. PROVIDE INSULATED SUB–BASE FOR THERMOSTATS LOCATED ON EXTERIOR WALLS.

40. THERMOSTAT LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS. MOUNT THERMOSTATS ADJACENT TO LIGHT SWITCH, UNLESS NOTED OTHERWISE.

41. PROVIDE A SMOKE DETECTOR IN THE SUPPLY AND RETURN DUCT OF EACH UNIT TO DE–ENERGIZE THE SUPPLY AIR FAN SHOULD PRODUCTS OF COMBUSTION BE SENSED.

ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS, EXCEPT WHERE MANUFACTURER'S INSTRUCTIONS SPECIFY A GREATER QUANTITY OR BETTER QUALITY INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

DRAWING LIST

M–1.0 COVER SHEET – MECHANICAL
M–2.0 GROUND AND FIRST FLOOR PLAN – MECHANICAL
M–3.0 SECOND FLOOR AND MEZZANINE PLAN – MECHANICAL
M–4.0 ROOF PLAN – MECHANICAL
M–5.0 DETAILS – MECHANICAL
M–6.0 SCHEDULES – MECHANICAL

CONSTRUCTION SET

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

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PROJECT:

TREE OF LIFE - PUBLIC CHARTER SCHOOL

2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:

COVER SHEET
MECHANICAL

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

STAMP:

DISTRICT OF COLUMBIA — REGISTERED PROFESSIONAL ENGINEER — No. PE8239

DRAWN BY: JLB
DATE:
FOX PROJECT NO.:

DRAWING NUMBER
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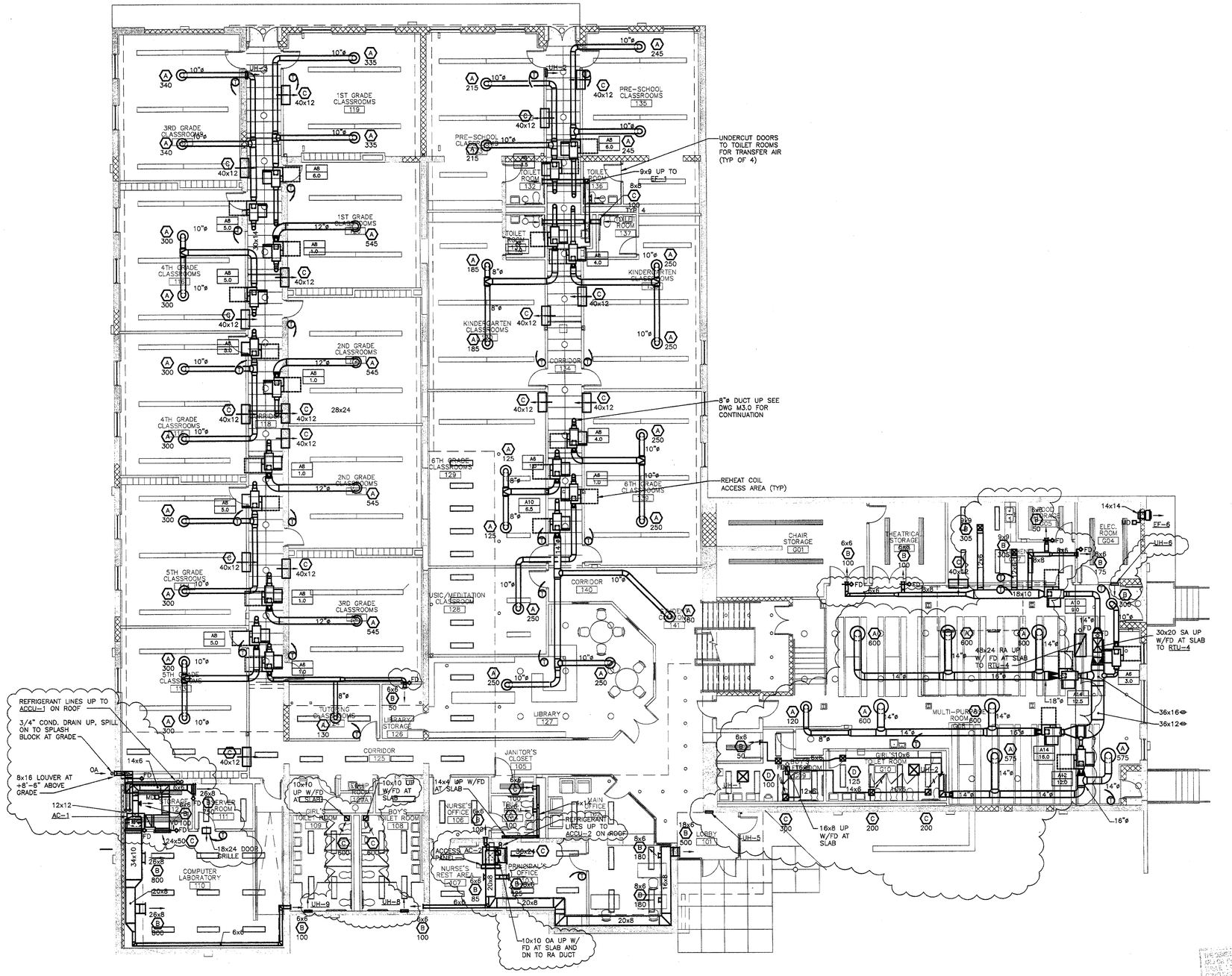

GROUND AND FIRST FLOOR PLAN – MECHANICAL

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

N

JUL 18 2005
Mechanical Permitting Section

CONSTRUCTION SET

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GROUND AND FIRST FLOOR PLAN
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No. PE8239
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DRAWN BY: JLB
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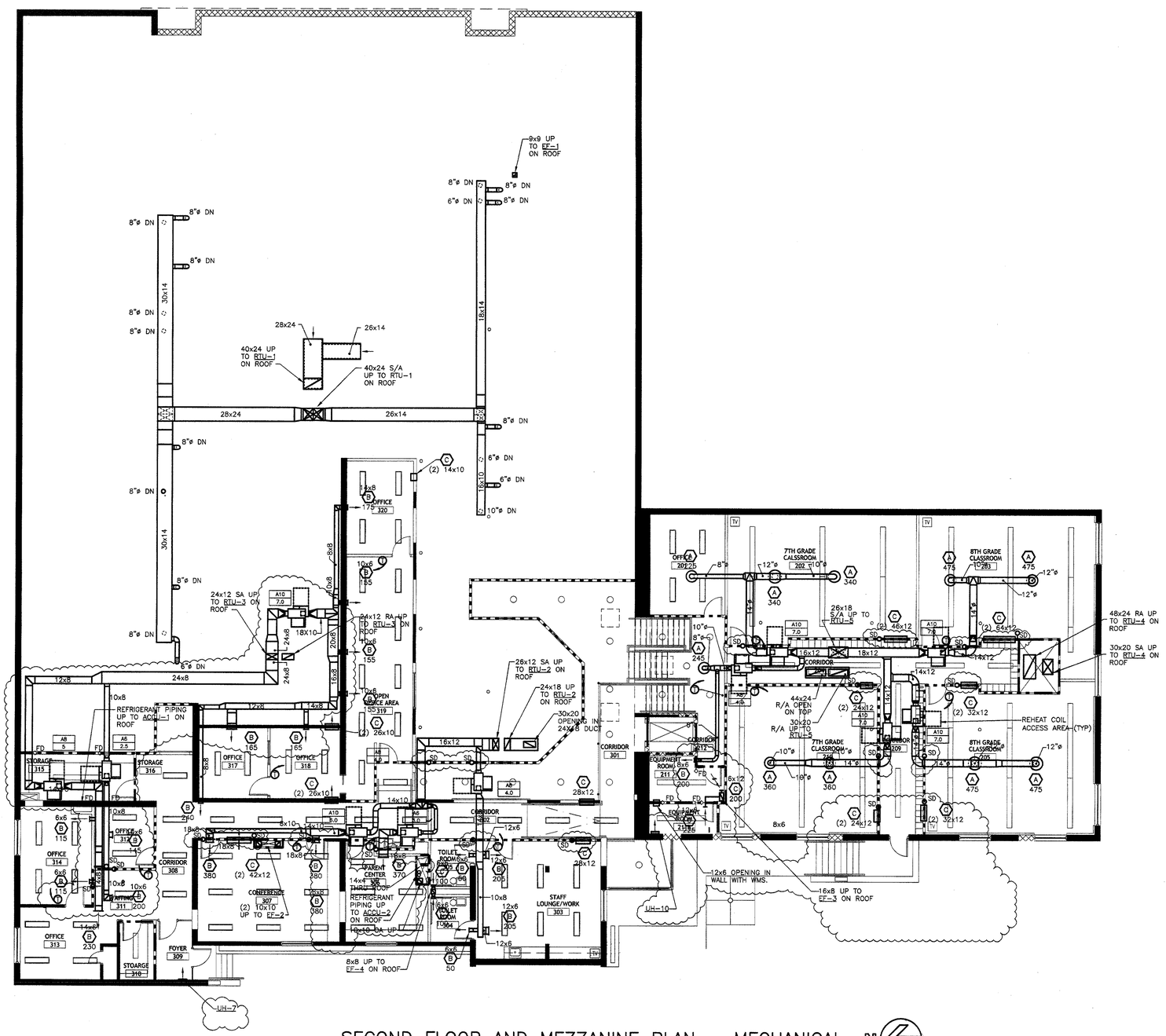

SECOND FLOOR AND MEZZANINE PLAN – MECHANICAL

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

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SECOND FLOOR AND MEZZANINE PLAN
MECHANICAL

ISSUED:	
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RICHARD T. EUBANK
No. PE8239
REGISTERED PROFESSIONAL ENGINEER

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DATE:
FOX PROJECT NO.:

DRAWING NUMBER
M3.0

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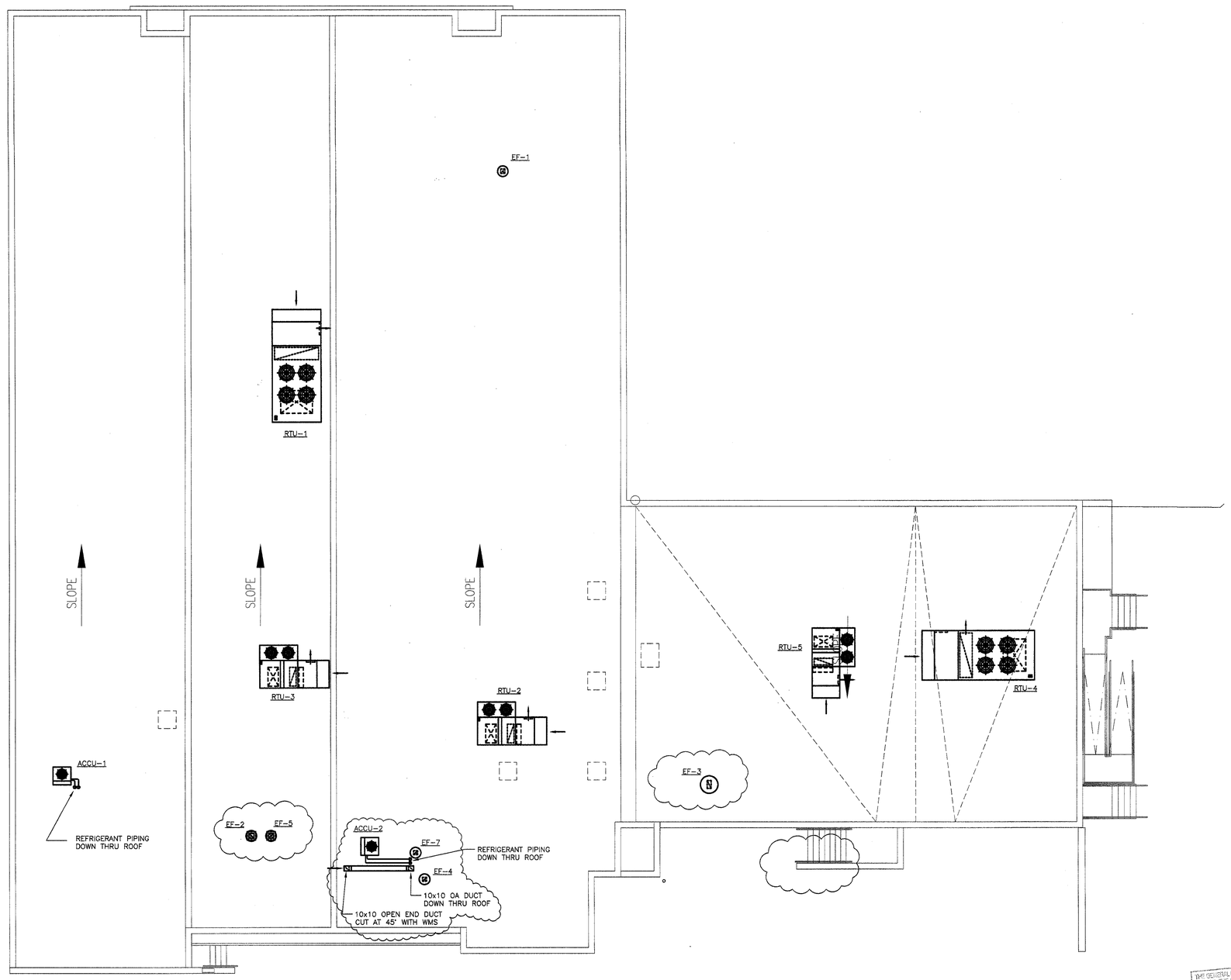

ROOF PLAN – MECHANICAL

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

ROOF

THE GENERAL LAYOUT OF THE MECHANICAL SYSTEMS AND OF THE MECHANICAL EQUIPMENT SHOWN ON THESE DRAWINGS WAS BEEN REVIEWED FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE D.C. CONSTRUCTION CODES AND IS APPROVED

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Mechanical Engineering Section

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DRAWING TITLE:
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MECHANICAL

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STAMP:
DISTRICT OF COLUMBIA
RICHARD T. EVOLT
No. PE8239
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: JLB
DATE:
FOX PROJECT NO.:

DRAWING NUMBER
M4.0

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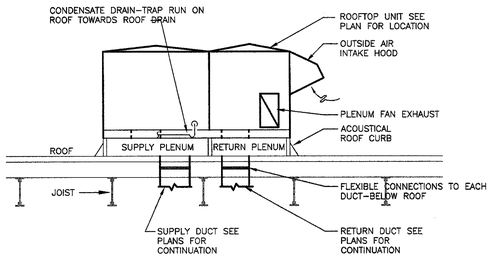
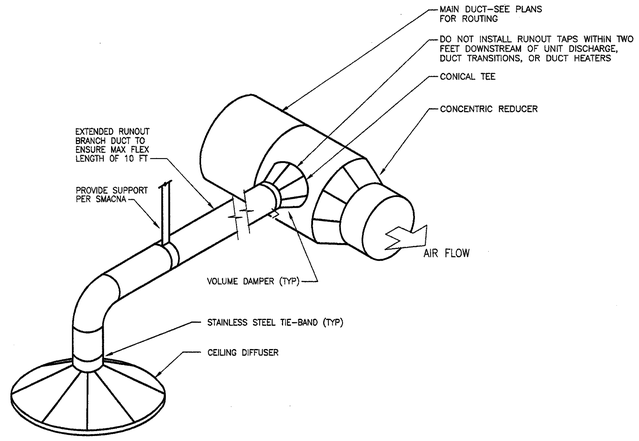
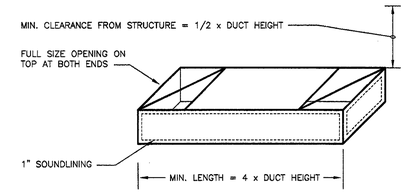


NOTE: CONTROL WIRING SHALL BE RUN IN CONDUIT.

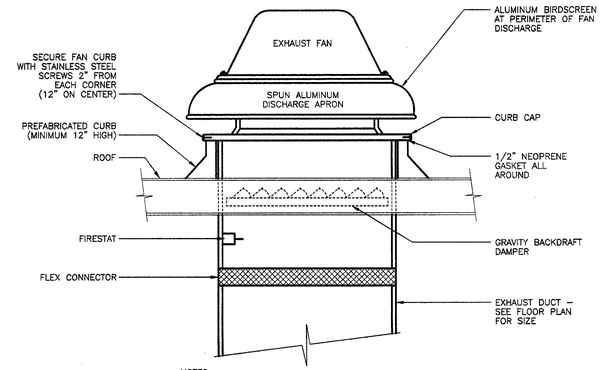
ROOFTOP UNIT DETAIL
NO SCALE



CEILING DIFFUSER CONNECTION DETAIL
NO SCALE

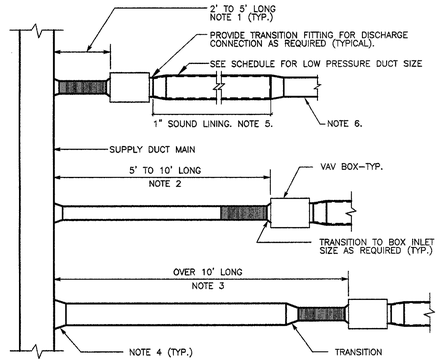


TYPICAL RETURN AIR TRANSFER DUCT DETAIL
NO SCALE



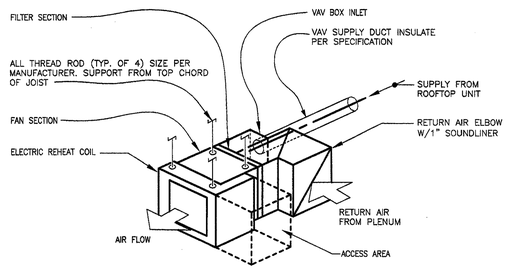
NOTES
1. CURB AND FAN SHALL BE FROM THE SAME MANUFACTURER.
2. RUN POWER SUPPLY LEADS IN CORNER INSIDE CURB.

POWER ROOF VENTILATOR DETAIL
NO SCALE



NOTES:
1. PROVIDE 2' MIN. STRAIGHT FLEXIBLE DUCT AT BOX INLET (TYPICAL).
2. PROVIDE 5' MAX. FLEXIBLE DUCT OF STANDARD INLET DUCT SIZE PLUS SHEET METAL DUCT OF STANDARD INLET DUCT SIZE FOR COMBINED LENGTH UP TO 10' MAX (SEE SCHEDULE FOR SIZES).
3. PROVIDE 5' MAX. FLEXIBLE DUCT OF STANDARD INLET DUCT SIZE PLUS SHEET METAL DUCT OF INCREASED INLET DUCT SIZE FOR COMBINED LENGTH OVER 10' LONG (SEE SCHEDULE FOR SIZES).
4. PROVIDE RECTANGULAR TO ROUND, CONICAL TAP, OR EQUIVALENT AT EACH CONNECTION TO SUPPLY DUCT MAIN.
5. RUN LINING FOR 10 FT. OR THRU FIRST ELBOW (TYPICAL).
6. PROVIDE DOWNSTREAM TRANSITION WHERE SHOWN ON PLANS (TYPICAL).

VAV BOX DETAIL
NO SCALE



ALL MECHANICAL EQUIPMENT AND/OR APPLIANCES SHALL BEAR THE LABEL OF AN APPROVED AGENCY SHALL BE APPROVED FOR THE PROPOSED USE AND LOCATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

FAN POWERED VAV BOX DETAIL
NO SCALE

CONSTRUCTION SET

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

FOX ARCHITECTS

PROJECT:

TREE OF LIFE - PUBLIC CHARTER SCHOOL

2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:

DETAILS
MECHANICAL

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

STAMP: DISTRICT OF COLUMBIA – No. PE8239 – REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: JLB
DATE:
FOX PROJECT NO.:

DRAWING NUMBER
M5.0

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CONSTRUCTION SET

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

ELECTRIC UNIT HEATER SCHEDULE

DESIG.	AREA SERVED	FAN CFM	KW	V/PH/HZ	BASIS OF DESIGN /MODEL NO.	NOTES
UH-1	BOYS G09	425	2	277/1/60	MARKEL F3482	1, 3, 4
UH-2	GIRLS G10	425	2	277/1/60	MARKEL F3482	1, 3, 4
UH-3	CORRIDOR 118	175	3	277/1/60	MARKEL F3325TTD-RP	2, 3, 4
UH-4	CORRIDOR 134	175	3	277/1/60	MARKEL F3325TTD-RP	2, 3, 4
UH-5	LOBBY 101	175	4	277/1/60	MARKEL G3326TTD-RP	2, 3, 4
UH-6	MULTI-PVR, G08	175	3	277/1/60	MARKEL F3325TTD-RP	2, 3, 4
UH-7	FOYER 309	175	3	277/1/60	MARKEL F3325TTD-RP	2, 3, 4
UH-8	BOYS TOILET 108	175	2	277/1/60	MARKEL G3324TTD-RP	2, 3, 4
UH-9	GIRLS TOILET 109	175	2	277/1/60	MARKEL G3324TTD-RP	2, 3, 4
UH-10	EQ. RM 211B	175	3	277/1/60	MARKEL F3325TTD-RP	2, 3, 4

NOTES:
1. CEILING MOUNTED (RECESSED)
2. WALL MOUNTED (RECESSED)
3. BUILT-IN THERMOSTAT
4. UNIT MOUNTED DISCONNECT SWITCH

AIR DEVICE SCHEDULE

(A) ROUND LOUVERED CEILING DIFFUSERS (TITUS TMRA-AA)

CFM RANGE	NECK	FACE	THROW	MAX APD	MAX NC	NOTES
0-115	6"ø	13 1/2"ø	6	0.15	30	2,4
116-245	8"ø	18"ø	7	0.15	30	2,4
246-375	10"ø	22 1/2"ø	7	0.15	30	2,4
376-550	12"ø	27"ø	7	0.15	30	2,4
551-700	14"ø	31 1/2"ø	7	0.15	30	2,4

(B) SIDEWALL SUPPLY REGISTERS (TITUS 272 RS)

CFM RANGE	NECK	FACE	THROW	MAX APD	MAX NC	NOTES:
0-900	SEE PLAN	NECK=1.75"	-	0.1	30	1,2,3
-	-	-	-	-	-	-

(C) RETURN/EXHAUST AIR REGISTERS (TITUS 3FL)

CFM RANGE	NECK	FACE	THROW	MAX APD	MAX NC	NOTES
0-100	6x6	NECK+1.75"	-	0.025	30	1,2,4
101-215	8x8	NECK+1.75"	-	0.025	30	1,2,4
216-300	10x10	NECK+1.75"	-	0.025	30	1,2,4
-	-	-	-	-	-	-

(D) SQUARE SUPPLY AIR REGISTERS (TITUS TDC-AA)

CFM RANGE	NECK	FACE	THROW	MAX APD	MAX NC	NOTES
0-150	6x6	24" SQ	14 FT	0.17	30	1,2,4
151-340	9x9	24" SQ	12 FT	0.17	30	1,2,4
341-600	12x12	24" SQ	16 FT	0.17	30	1,2,4

NOTES:
1. PROVIDE FRAME AND/OR ACCESSORIES AS REQUIRED TO MATCH ADJACENT SURFACES. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. BALANCE TO CFM INDICATED ON PLANS.
3. PROVIDE WITH VOLUME DAMPER AT AIRTITE FITTING.
4. PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.

VAV BOX SCHEDULE

"A" TYPE VAV BOX (SERIES FAN POWERED VAV BOX)

PRIMARY AIR			INCREASED INLET SIZE	LOW PRESSURE DUCT SIZE	FAN			MAX. HEIGHT	ELECTRIC HEAT		NOTES:
INLET SIZE	MAX. CFM	MAX. P.D.			CFM	ESP	HP		KW	VOLT/ø	
6"ø	400	0.3	8"ø	10x8	400	0.3	1/6	14"	SEE PLANS	480/3	1,2
8"ø	700	0.3	10"ø	16x8	700	0.3	1/3	14"			1,2
10"ø	1100	0.3	12"ø	18x10	1100	0.3	1/2	14"			1,2
12"ø	1600	0.3	14x12	24x10	1600	0.3	1/2	18"			1,2
14"ø	2200	0.3	18x12	24x12	2200	0.3	3/4	18"			1,2
16"ø	2800	0.3	22x12	24x14	2800	0.3	3/4	20"			1,2

NOTES:
1. SERIES FAN POWERED VAV BOX; REPLACE INLET FILTER AT END OF CONSTRUCTION AND ADJUST MAXIMUM PRIMARY AIR AND FAN TO TOTAL ADD-UP CFM. ADJUST MINIMUM PRIMARY AIR TO 25% OF MAXIMUM.
2. FAN PRESSURE DROP INDICATED DOES NOT INCLUDE FILTER, HEATING COIL OR BOX LOSSES.

FAN SCHEDULE

DESIGNATION	AREA SERVED	LOCATION	CFM	SP	HP	V/ø/HZ	TYPE	BASIS OF DESIGN	NOTES
EF-1	PRE-SCHOOL AND K TOILETS	ROOF	400	0.5	0.125	120/1	CENT.	GREENHECK G-095D	1,3,4,5,9,10
EF-2	GIRLS TOILET 109	ROOF	600	0.4	0.125	277/1	CENT.	GREENHECK G-090D	1,3,4,5,9,10
EF-3	GIRLS TOILET G10, BOYS TOILET G09 AND EQUIP. RMS 211 AND 211B	ROOF	1100	0.5	0.25	120/1	CENT.	GREENHECK GB-141	1,3,4,5,9,10
EF-4	STAFF TOILETS	ROOF	200	0.5	0.25	120/1	CENT.	GREENHECK G-080	1,3,4,5,9,10
EF-5	BOY'S TOILET 108	ROOF	600	0.4	0.125	120/1	CENT.	GREENHECK G-090D	1,3,4,5,9,10
EF-6	ELECTRIC ROOM 204	WALL	200	0.25	0.125	120/1	CENT.	GREENHECK CW-085E	2,3,4,5,10
EF-7	JAN. CLOSET 105 AND TOILET ROOM 104	ROOF	200	0.35	0.03	120/1	CENT.	GREENHECK G-085-G	1,3,4,5,9,10

NOTES:
1. DIRECT DRIVE.
2. BELT DRIVE.
3. PROVIDE INTEGRAL BACK DRAFT DAMPER.
4. PROVIDE INTEGRAL DISCONNECT.
5. PROVIDE UNIT MOUNTED VARIABLE SPEED SWITCH.
6. PROVIDE WALL MOUNTED THERMOSTAT.
7. PROVIDE INTEGRAL EXHAUST GRILLE.
8. PROVIDE MOTOR COVER.
9. PROVIDE MANUFACTURER'S PREFABRICATED ROOF CURB.
10. PROVIDE BIRD SCREEN.

ROOFTOP A/C UNIT SCHEDULE

DESIG.	AREA SERVED	LOCATION	EER AT ARI	EER AT OP	MIN. O.A. CFM	SUPPLY FAN			COOLING CAPACITY				HEATING CAPACITY				RELIEF FAN			COMPRESSOR		COND. FANS			ELECTRICAL		ENERGY WHEEL - SUMMER					ENERGY WHEEL - WINTER				RE-HEAT COIL (HOT GAS)			APPROX WEIGHT LBS.	BASIS OF DESIGN: AAON	REMARKS
						CFM	ESP IN W.G.	QTY	HP	TOTAL MBH	SENS. MBH	EAT DB/WB °F	AMBIENT °F	INPUT MBH	OUTPUT MBH	# STEPS	EAT DB °F	CFM MIN	NO.	HP EA.	NO.	RLA EA.	NO.	HP EA.	FLA EA.	V/PH	UNIT MCA	QTY	HP EA	CFM	TOT CAP MBH	SEN CAP MBH	EAT DB/WB	LAT DB/WB	TOT CAP MBH	SEN CAP MBH	EAT DB/WB	LAT DB/WB	CAPACITY MBH	LAT DB/WB	RH			
RTU-1	FIRST FLOOR CLASSROOMS NORTH	ROOF	10.6	13.4	5500	9400	2.5	2	7.5	548	306	77.3/65.4	93	540	399	3	66.7	4700	2	2.0	4	15.5	4	0.75	2.3	460/3	106	2	0.17	5500	241.3	85.4	93/78	79.0/67.3	450.3	302.4	10/9	60.1/52.5	-	-	-	8500	RN-040	-
RTU-2	MEZZANINE FLOOR NORTH	ROOF	11.2	13.0	1400	1600	2.5	1	3	117	61	78.6/66.5	93	180	105	3	69.0	1600	1	1.0	2	9.0	1	0.75	2.3	460/3	30	1	0.05	1400	62.3	21.4	93/78	79.2/67.2	113.0	75.9	10/9	60.0/52.1	-	-	-	2200	RM-013	-
RTU-3	FIRST FLOOR ADMIN AREA	ROOF	11.8	9.1	240	1860	2.25	1	2	57	45	75.3/62.9	93	90	38	3	74	1860	1	1.0	1	9.0	1	0.33	1.1	460/3	18	1	0.03	240	12.1	4.22	93/78	71.1/65.4	22.5	15.0	10/9	67.4/56.8	36.0	70/59.1	52%	1500	RM-005	-
RTU-4	GROUND LEVEL MULTI-PURPOSE SOUTH	ROOF	11.7	15.4	5800	8500	2.5	1	15	501	263	77.2/65.1	93	540	460	3	66.9	5040	2	2.0	4	11.0	4	0.75	2.3	460/3	-	2	0.17	5240	241.6	83.3	93/78	78.6/66.6	446.5	295.2	10/9	61.9/53.8	176.0	70/58.3	50%	8300	RN-031	-
RTU-5	SECOND FLOOR SOUTH	ROOF	10.8	11.6	2025	3700	2.5	1	5	194	113	77.1/65.0	93	180	187	2	35.7	1825	1	2.0	2	9.0	2	0.75	2.3	460/3	-	1	0.05	1640	68.4	24.3	93/76	79.6/67.9	127.7	85.9	10/9	58.3/51.0	76.0	70/58.3	49%	2500	RM-013	-

NOTES:
1. UNITS SHALL BE DOWNFLOW TYPE.
2. PROVIDE UNITS WITH 14" ACOUSTICAL ROOF CURB.
3. UNITS SHALL BE A HEAT RECOVERY UNITS-CO2 OVERRIDE AND FULL MODULATING ECONOMIZER W/ENTHALPY CONTROL.
4. PROVIDE UNITS WITH 4" PLEATED, 35% EFFCY. FILTERS, CLOGGED FILTER SWITCH, AND MAGNAHELIC GAUGES.
5. PROVIDE UNITS WITH 5 MINUTE TIME DELAY RELAY.
6. PROVIDE UNITS WITH HOT GAS BYPASS ON ALL CIRCUITS, HOT GAS REHEAT COIL AND SIGHT GLASS
7. PROVIDE UNITS WITH STAINLESS STEEL BURNER - UNITS SHALL HAVE FOUR STAGES OF HEATING.
8. PROVIDE UNITS WITH STAINLESS STEEL DRAIN PAN AND COIL GUARDS.
9. PROVIDE UNITS WITH FACTORY WIRED 115V GFI CONVENIENCE OUTLET.
10. PROVIDE PROGRAMMABLE MICROPROCESSOR BASED THERMOSTAT FOR EACH UNIT.
11. UNITS SHALL BE PROVIDED WDITH FACTORY INSTALLED SA AND RA SMOKE DETECTORS.
12. UNITS RTU-1,4,5 SHALL BE 4 ROW COOLING COIL AND RTU-2 AND 3 SHALL BE 6 ROW COOLING COIL.
13. PROVIDE HIGH EFFICIENCY FANS WITH FACTORY INSTALLED VFD.
14. PROVIDE UNITS WITH FACTORY INSTALLED FUSED DISCONNECT SWITCH.
15. PROVIDE UNITS WITH TWO INCH DOUBLE WALL CONSTRUCTION WITH FOAM PANELS.

SPLIT-SYSTEM AIR-CONDITIONING UNIT SCHEDULE

DESIGINATION		EVAPORATOR																		AIR COOLED CONDENSING UNIT													
EVAPORATOR	CONDENSING UNIT	AREA SERVED	LOCATION	MIN OA CFM	FAN			FILTERS			COOLING COIL			ELECTRIC HEATING COIL			ELECTRICAL			WEIGHT LBS	MANUFACTURER: AAON MODEL:	ACCESSORIES	LOCATION	EER	REFRIGERANT TYPE	COMPRESSOR(S)		AIR COOLED CONDENSER		ELECTRICAL			WEIGHT LBS	MANUFACTURER: AAON MODEL:	ACCESSORIES
					CFM	ESP	HP	TYPE	EFFICIENCY	APD (CLEAN)	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	EAT °F DB/WB	KW	NO. OF STAGES	EAT °F	V/ø	MOCP	MCA							QUANTITY	RLA EA	QUANTITY OF FANS	FLA EA	V/ø	MOCP	MCA			
AC-1	ACCU-1	COMPUTER AREA	STORAGE RM112	400	2410	2.0	5.0	4" PLEATED	30%	0.1	78.7	59.2	75.0/62.0	21	2	71.7	460/3	45	42	600	V2-C1-3-56-3C1	-	ROOF	8.6	R-22	2	7.1	1	3.5	460/3	25	19	600	CA-07-3	1,2,3,4,5,6,7
AC-2	ACCU-2	ADMIN AREAS	NURSE'S REST RM107	300	1170	2.0	2.0	4" PLEATED	30%	0.11	44.2	30.4	78.4/66.0	14	2	60.0	460/3	25	23	300	V2-B1-3-56-3B1	-	ROOF	10.5	R-22	2	3.9	1	3.5	460/3	15	12	500	-	1,2,3,4,5,6,7

ACCESSORIES:
1. PROGRAMMABLE ELECTRONIC NIGHT SETBACK THERMOSTAT.
2. DISCHARGE PLENUM.
3. RETURN AIR GRILLE.
4. MOUNTING SUBBASE.
5. FLOOR MOUNTED ISOLATORS.
6. CONTROL TRANSFORMER.
7. OVERSIZED MOTOR.
8. INTERGAL SMOKE DETECTOR.
9. AUXILIARY DRAIN PAN.
10. CONDENSATE PUMP.
11. SINGLE POINT POWER CONNECTION.

ACCESSORIES:
1. LOW-AMBIENT HEAD PRESSURE CONTROL (0°F).
2. RUBBER IN SHEER ISOLATORS.
3. HOT GAS BYPASS KIT.
4. TIME DELAY RELAY.
5. ANTI-SHORT-CYCLE TIMER.
6. CONDENSER COIL GUARD.

FOX ARCHITECTS

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DRAWING TITLE:

SCHEDULES AND DETAILS
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STAMP: DISTRICT OF COLUMBIA REGISTERED PROFESSIONAL ENGINEER No. PE8239

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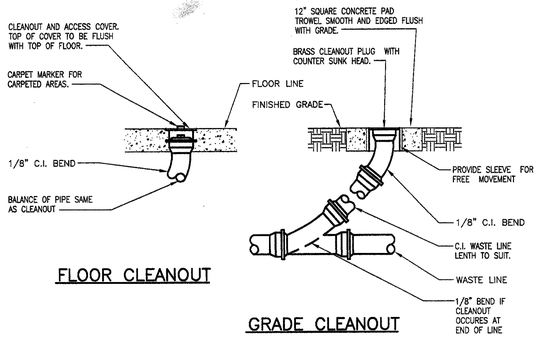


FLOOR CLEANOUT

GRADE CLEANOUT

CLEANOUT DETAILS
NO SCALE

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE NO.	DESCRIPTION	WASTE	VENT	COLD WATER	HOT WATER	REMARKS
P-1	WATER CLOSET	4"	2"	1"	---	NOTE 2 & 5
P-1a	WATER CLOSET	4"	2"	1"	---	NOTE 2, 3 & 5
P-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	NOTE 5
P-2a	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	NOTE 3 & 5
P-3	URINAL	2"	1-1/2"	3/4"	---	NOTE 1 & 5
P-3a	URINAL	2"	1-1/2"	3/4"	---	NOTE 1, 3 & 5
P-4	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1/2"	---	
P-4a	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1/2"	---	NOTE 3
P-5	SINK (TWO COMPARTMENT)	1-1/2"	1-1/2"	1/2"	1/2"	NOTE 4 & 5
P-5a	SINK	1-1/2"	1-1/2"	1/2"	1/2"	NOTE 4 & 5
P-6	MOP BASIN	3"	1-1/2"	1/2"	1/2"	

NOTE:
1. 1.0 GALLONS PER FLUSH
2. 1.6 GALLONS PER FLUSH
3. HANDICAP FIXTURE
4. COUNTERTOP FIXTURE
5. WALL HUNG

PLUMBING ABBREVIATIONS

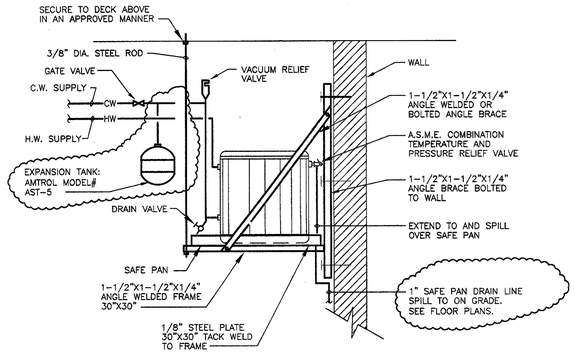
ABV.	ABOVE	TYP.	TYPICAL
BLW.	BELOW	VTR.	VENT PIPE THRU ROOF
CLG.	CEILING	W/	WITH
FLR.	FLOOR	DN.	DOWN
(E)	EXISTING	BFP.	BACKFLOW PREVENTER

PLUMBING SYMBOLS

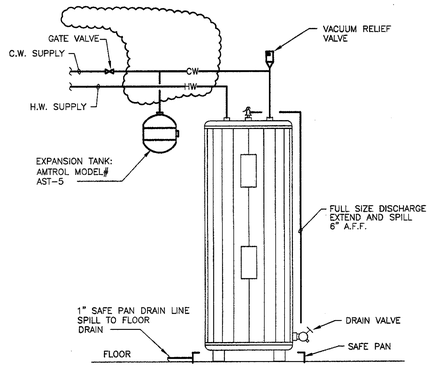
—CW—	EXISTING COLD WATER PIPE	—CW—	COLD WATER PIPE
—HW—	EXISTING HOT WATER PIPE	—HW—	HOT WATER PIPE
—ST—	EXISTING STORM PIPE	—TW—	TEMPERED WATER PIPE
- - V - -	EXISTING VENT PIPE	- - V - -	VENT PIPE
—S—	EXISTING SOIL OR WASTE PIPE	—S—	SOIL OR WASTE PIPE
	EXISTING PIPE TO BE REMOVED	—G—	GAS PIPE
	CAPPED PIPE		CONTINUATION
	PIPE TURNING UP		FLOOR DRAIN – FD
	PIPE TURNING DOWN	FCO	FLOOR CLEANOUT
	HOSE BIBB (HB)	GCO	GRADE CLEANOUT
	BOTTOM TAKE OFF	WCO	WALL CLEANOUT
	TOP TAKE OFF		BACK FLOW PREVENTER
	WALL HYDRANT (WH)		EXTENT OF DEMOLITION
	UNION		EXTENT OF DEMOLITION
	PRESSURE REDUCING VALVE		POINT OF CONNECTION NEW TO EXISTING
	GATE VALVE	P	WASTE RISER DESIGNATION
	GAS COCK	W	WATER RISER DESIGNATION
	GAS PRESSURE REGULATOR	G	GAS RISER DESIGNATION

PLUMBING GENERAL NOTES

1. ALL PLUMBING WORK SHALL CONFORM WITH ALL DISTRICT OF COLUMBIA CODES, RULES AND REGULATIONS.
2. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ANY PERMITS.
3. PLUMBING CONTRACTOR SHALL INFORM SUBCONTRACTOR OF QUANTITY AND LOCATION OF ACCESS PANELS WHERE REQUIRED FOR ACCESS TO VALVES IN CEILINGS AND WALLS. ACCESS PANELS SHALL BE INSTALLED BY THE APPROPRIATE SUBCONTRACTOR.
4. FOR ALL SIZES OF WASTE, VENT, HOT AND COLD WATER PIPING TO FIXTURES AND EQUIPMENT, SEE SANITARY WASTE AND WATER RISER DIAGRAMS.
5. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED AND ALL PIPING SHALL BE INSTALLED INSIDE OF THE BUILDING INSULATION ENVELOPE.
6. ALL SANITARY WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
7. ALL SLOPES AND INVERTS ELEVATIONS SHALL BE CHECKED BEFORE ANY PIPING IS INSTALLED, IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED.
8. MAKE PROPER WASTE, VENT, HOT AND COLD WATER CONNECTIONS TO ALL FIXTURES AND EQUIPMENT, EVEN THOUGH ALL BRANCH MAINS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
9. ALL PLUMBING WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID ANY INTERFERENCE.
10. THESE DRAWINGS ARE DIAGRAMMATIC, REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF THE BUILDING AND EXACT LOCATION OF ALL FIXTURES AND EQUIPMENT.
11. ALL PIPE PENETRATIONS BELOW SINKS SHALL BE SEALED.
12. ALL EXPOSED PIPING UNDER HANDICAP LAVATORY TO BE INSULATED.
13. CONTRACTOR SHALL PROVIDE ADDITIONAL WATER LINE DROPS IN WALL WHEN HORIZONTAL RUN IN WALL CONFLICTS WITH VENT PIPE IN WALL.
14. PLUMBING CONTRACTOR SHALL DISINFECT POTABLE WATER SYSTEM PER 2000 INTERNATIONAL PLUMBING CODE.
15. ALL NATURAL GAS PIPING LOCATED ABOVE CEILING IN PLENUM SPACE SHALL BE WELDED. CONTRACTOR SHALL ALERT ENGINEER AS TO ANY EXISTING GAS PIPING WHICH DOES NOT COMPLY.
16. PLUMBING CONTRACTOR SHALL X-RAY SLAB AFTER WORK HOURS BEFORE ANY CORE DRILLING. COORDINATE TIME WITH BUILDING MANAGEMENT.



WATER HEATER DETAIL (EWH-1 & 2)
NO SCALE



WATER HEATER DETAIL (EWH-3)
NO SCALE

ELECTRIC WATER HEATER SCHEDULE

SYMBOL	STORAGE (GALS)	RECOVERY GPH	RECOVERY DEG RISE	NUMBER ELEMENTS	ELECTRICAL KW	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL HZ	TEMP SETTING	MANUFACTURER & MODEL	ACCESSORIES	REMARKS
EWH-1	30	(23)	80°	2	(4.5)	480	3	60	100	A.O. SMITH DEL-40	(1)(2)	(2)(3)
EWH-2	20	20	80°	(1)	4	208	3	60	100	A.O. SMITH DEL-20	(1)(2)	(3)
EWH-3	40	61	80°	2	(6)	480	3	60	120	A.O. SMITH DEN-40	(1)(2)	(1)(3)

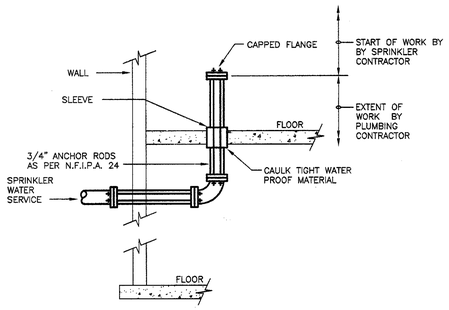
ACCESSORIES:
(1) THE WATER HEATER SHALL INCLUDE AN EXPANSION TANK AS SHOWN ON THIS DRAWING WITH A MINIMUM VOLUME OF 5 GALLONS AND ACCEPTANCE FACTOR OF 0.20, SIMILAR TO AMTROL THERM-X-TROL MODEL #ST-12-C.
(2) PROVIDE A TEMPERATURE/PRESSURE RELIEF VALVE AS SPECIFIED FACTORY SET AT 100 PSI.

REMARKS:
(1) SIMULTANEOUS DUAL ELEMENT OPERATION
(2) NON-SIMULTANEOUS DUAL ELEMENT OPERATION
(3) SEE WATER HEATER DETAIL ON THIS DRAWING.

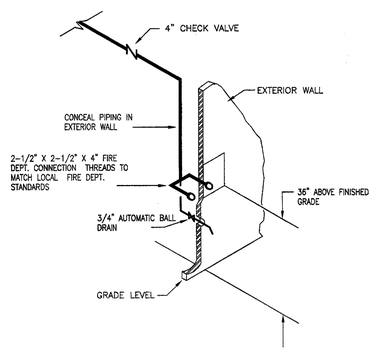
FIRE PROTECTION

A. CONTRACTOR SHALL PROVIDE COMPLETE FIRE PROTECTION SYSTEMS AS PER NFPA 13 AND ALL DISTRICT OF COLUMBIA CODES. SUBMIT DETAILED DRAWINGS AND CALCULATIONS TO FIRE MARSHAL FOR APPROVAL AND FIRE MARSHAL APPROVED DRAWINGS TO ENGINEER. PRIOR TO START OF ANY WORK, SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIAL TO THE ENGINEERS FOR APPROVAL. COORDINATE SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN AND SUBMIT FOR APPROVAL BY ARCHITECT AND ENGINEER.

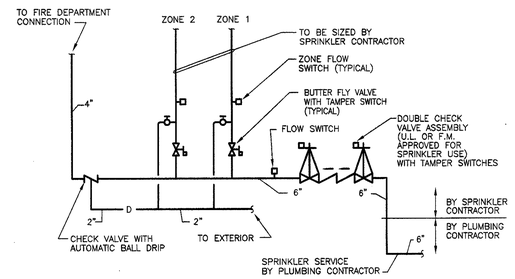
B. WORK INCLUDED: COMPLETE AUTOMATIC SPRINKLER SYSTEMS INCLUDING BUT NOT LIMITED TO THE FOLLOWING AS REQUIRED:
1. FIRE SERVICES INCLUDING REQUIRED PIPING, PIPING ACCESSORIES FITTINGS, CONCRETE ANCHORS, TIE RODS, VALVES, METERS, DETECTOR CHECKS, BACKFLOW PREVENTORS AND FIRE DEPARTMENT CONNECTIONS.
2. INTERIOR SYSTEMS INCLUDING PIPING, PIPING ACCESSORIES, FITTINGS, SPRINKLERS, HANGERS, SUPPORTS, SLEEVES, VALVES, WALL INDICATORS, LOCKING DEVICES, ALARM CHECK VALVE, WATER MOTOR GONG, ALARM BELL AND SPARE SPRINKLER AND TOOL CABINET. INSPECTOR'S TEST SHALL BE LOCATED IN CORRIDOR IN TAMPERPROOF CABINET.
3. ANY INCIDENTAL OR REQUIRED DEMOLITION ASSOCIATED WITH RENOVATED AND/OR NEW CONSTRUCTION.
4. TRENCHING, EXCAVATION AND BACKFILLING IN CONNECTION WITH THE WORK.
5. CUTTING AND PATCHING IN CONNECTION WITH THE WORK.
6. TESTING, CLEANING, ADJUSTING AND PLACING IN OPERATION ALL SYSTEMS AND EQUIPMENT SPECIFIED.
7. ALL FIRE PROTECTION WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID ANY INTERFERENCE.



SPRINKLER SERVICE DETAIL
NO SCALE



FIRE DEPARTMENT CONNECTION
NO SCALE



SPRINKLER RISER DETAIL
NO SCALE

ALL MECHANICAL EQUIPMENT AND/OR APPLIANCES SHALL BEAR THE LABEL OF AN APPROVED AGENCY SHALL BE APPROVED FOR THE PROPOSED USE AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

DRAWING LIST

P1.0 COVER SHEET PLUMBING
P2.0 GROUND AND FIRST FLOOR PLAN– NEW WORK– PLUMBING
P2.1 SECOND FLOOR AND MEZZANINE LEVEL PLAN– NEW WORK– PLUMBING
P3.0 RISER DIAGRAMS – PLUMBING

CONSTRUCTION SET

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

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KTA Group, Inc. Mechanical, Plumbing, Electrical and Telecommunications Engineering
13755 Sunrise Valley Drive Suite 500 Herndon, Va. 20171-3405 (703) 713-0300 (703) 935-7586 FAX www.KTAGROUP.com

PROJECT:
TREE OF LIFE - PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
COVER SHEET
PLUMBING

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

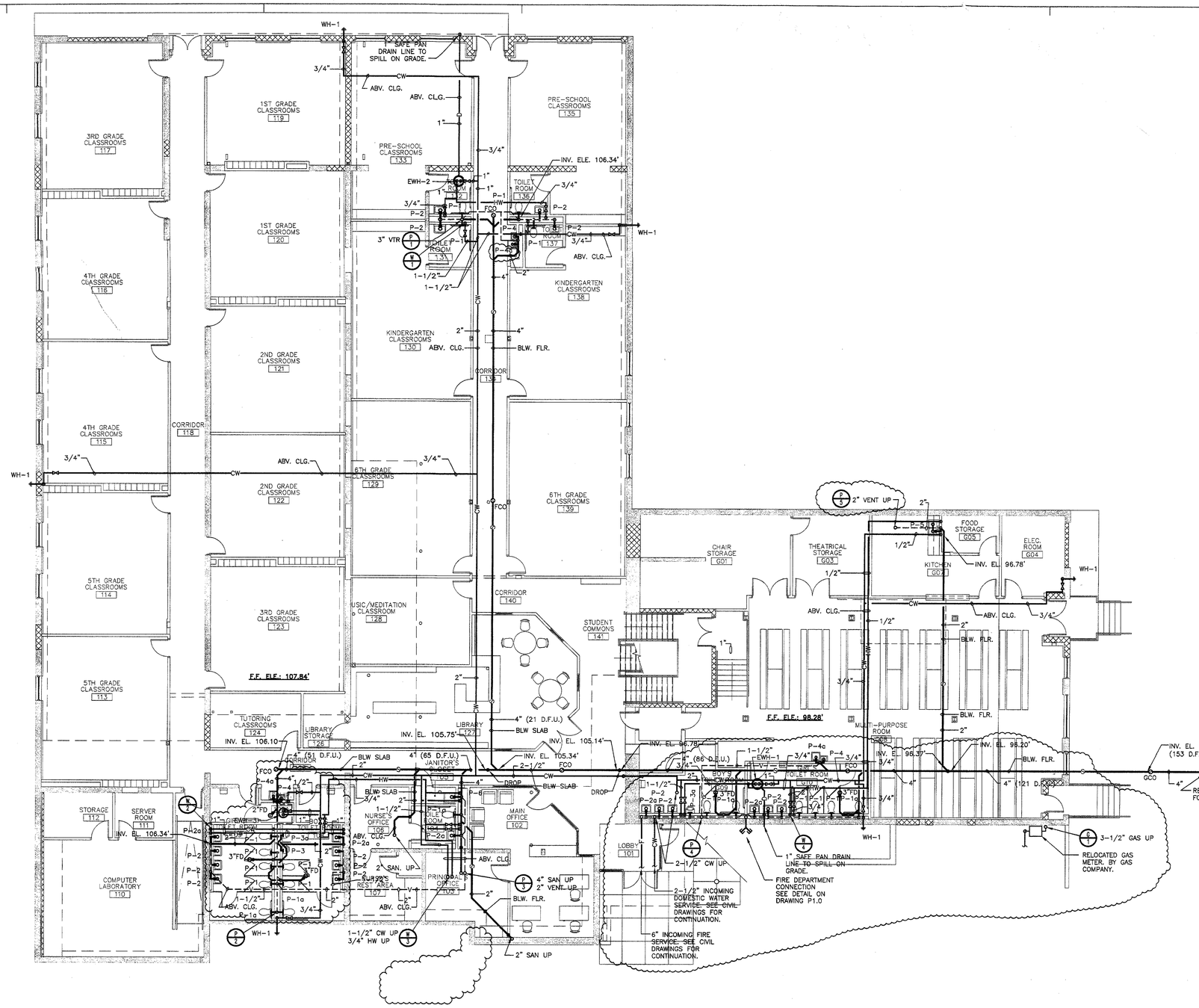
STAMP: DISTRICT OF COLUMBIA · RICHARD A. CROPP · No. PE8238 · REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: ADW
DATE:
FOX PROJECT NO.:

DRAWING NUMBER
P1.0

CONSTRUCTION SET

PERMIT/PRICING SET - NOT FOR CONSTRUCTION



THE GENERAL LAYOUT OF THE GAS PIPING AND/OR PLUMBING SYSTEMS (Water, Sanitary and Storm) SHOWN ON THESE DRAWINGS WAS REVIEWED FOR COMPLIANCE WITH THE APPLICABLE PROVISIONS OF THE D.C. CODE AS AMENDED AND IS APPROVED

Date: 2/18/05
Wayne S. Hornbeck, Chief
Mechanical Engineering Branch

ARCHITECTS

8000 Towers Crescent Drive, Suite 240 Vienna, Virginia 22182 Phone 703.821.7990 Fax 703.821.2270 www.fox-architects.com

PROJECT:

TREE OF LIFE - PUBLIC CHARTER SCHOOL

2315 18TH PLACE NE.
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(703) 935-7586 FAX
www.KTAGROUP.com

DRAWING TITLE:

GROUND AND FIRST FLOOR PLAN– NEW WORK– PLUMBING

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

STAMP:

DISTRICT OF COLUMBIA
No. PE8239
REGISTERED
PROFESSIONAL ENGINEER

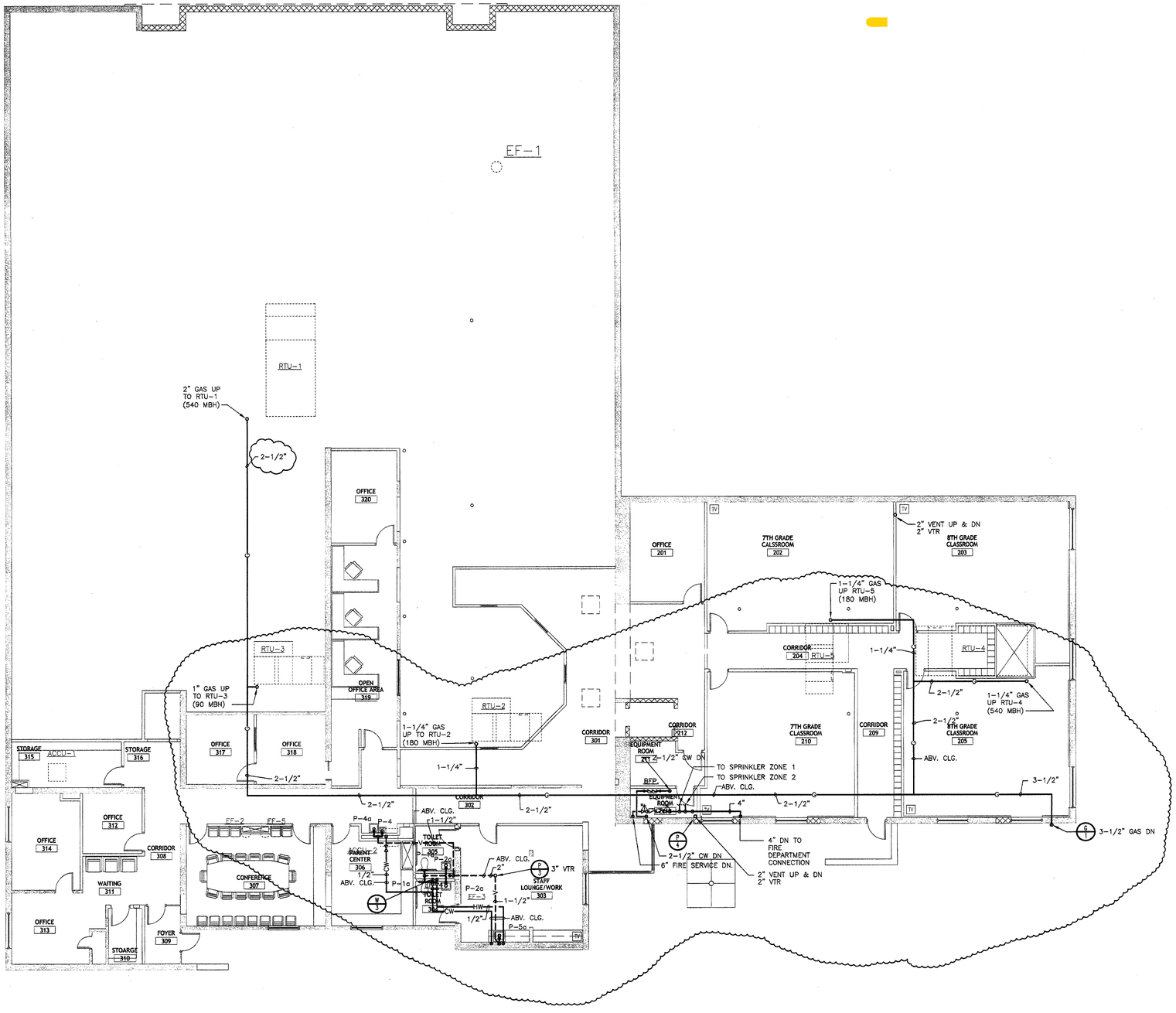
DRAWN BY: AW
DATE:
FOX PROJECT NO.:

DRAWING NUMBER

P2.0

CONSTRUCTION SET

PERMIT/PRICING SET - NOT FOR CONSTRUCTION



THE GENERAL LAYOUT OF THE GAS PIPING AND OR PLUMBING SYSTEMS [illegible] SUBMITTED ON THESE DRAWINGS [illegible] FOX CONSULTANTS [illegible] OF THE D.C. CONSTRUCTION CODE [illegible]

JUL 18 2005

Mechanical Engineering Division

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TREE OF LIFE - PUBLIC CHARTER SCHOOL

2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:

SECOND FLOOR AND MEZZANINE LEVEL PLAN– NEW WORK– PLUMBING

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

STAMP:

DISTRICT OF COLUMBIA
RICHARD T. CUDDY
No. PE8239
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: AW
DATE:
FOX PROJECT NO.:

DRAWING NUMBER
P2.1

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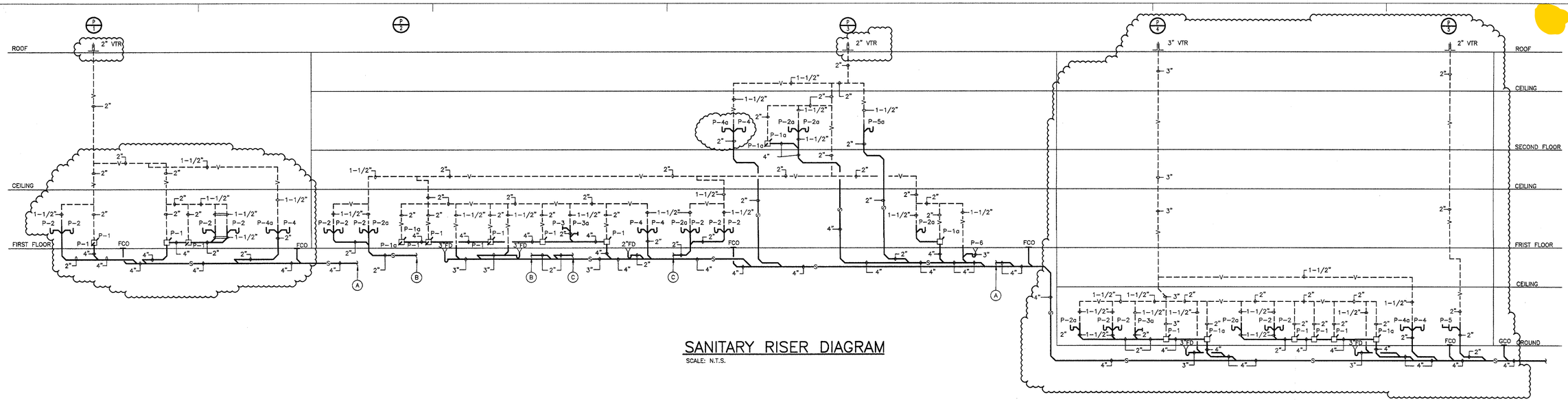
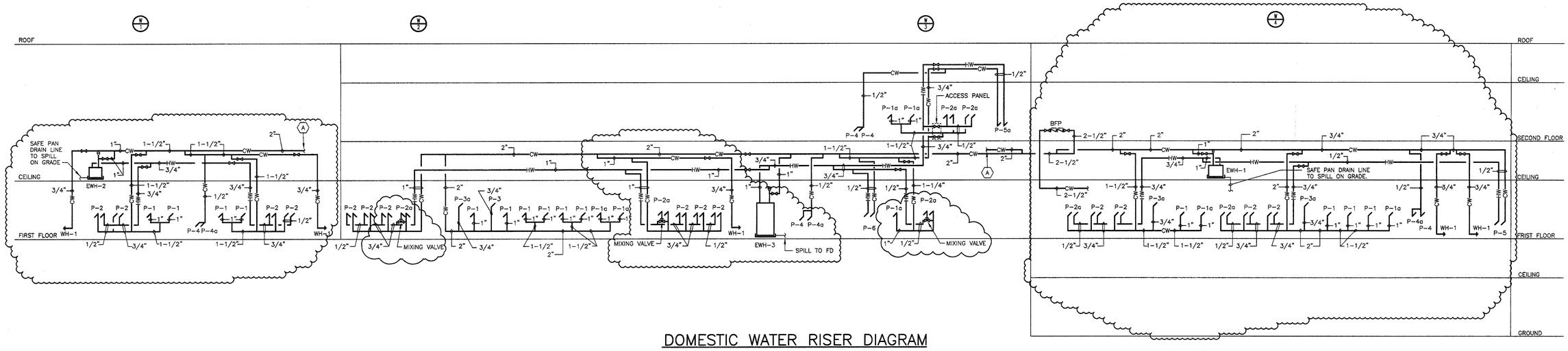
CONSTRUCTION SET



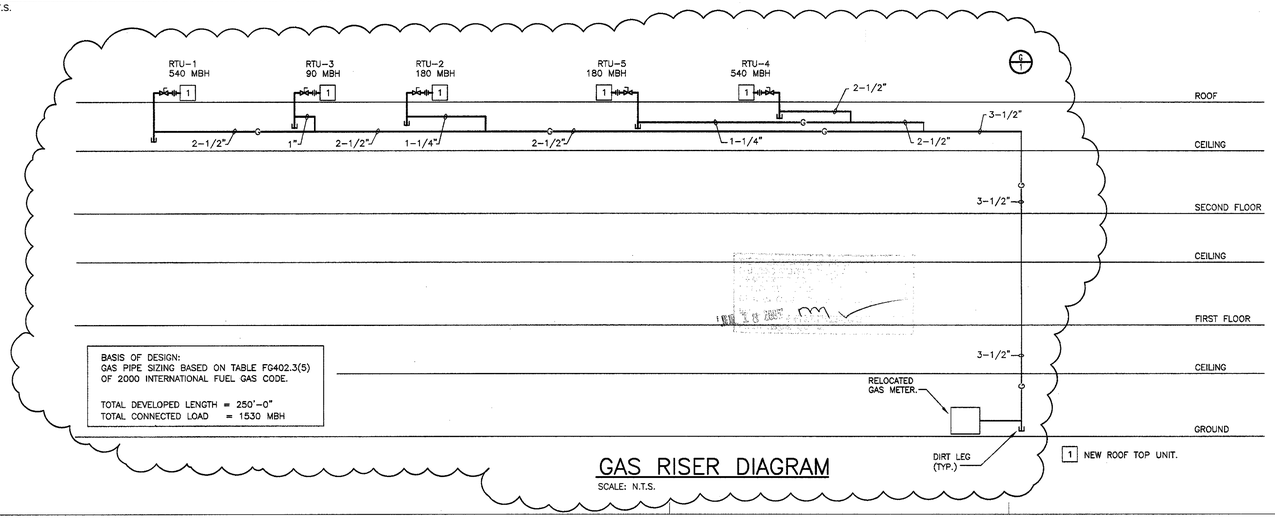
SANITARY RISER DIAGRAM

SCALE: N.T.S.



DOMESTIC WATER RISER DIAGRAM

SCALE: N.T.S.



BASIS OF DESIGN:
GAS PIPE SIZING BASED ON TABLE FG402.3(5) OF 2000 INTERNATIONAL FUEL GAS CODE.

TOTAL DEVELOPED LENGTH = 250'-0"
TOTAL CONNECTED LOAD = 1530 MBH

GAS RISER DIAGRAM

SCALE: N.T.S.

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TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
RISER DIAGRAMS
PLUMBING

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

STAMP:
DISTRICT OF COLUMBIA
RICHARD T. EUBITT
No. PE8239
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: AW
DATE:
FOX PROJECT NO.:

DRAWING NUMBER
P3.0

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ELECTRICAL NOTES AND SPECIFICATIONS

1. ALL WORK SHALL BE DONE IN CONFORMANCE WITH ALL LOCAL AND STATE CODES RULES AND REGULATIONS, THE 1999 NEC, AND OF THE AUTHORITY HAVING JURISDICTION.
2. OBTAIN AND PAY FOR ALL PERMITS, ALL FEES AND ALL TAXES.
3. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE."
4. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, FIXTURES, SERVICES AND PERFORM ALL OPERATIONS REQUIRED FOR A COMPLETE AND SAFE INSTALLATION OF THE ELECTRICAL SYSTEMS AND RELATED WORK. ELECTRICAL SYSTEMS AND EQUIPMENT SHALL IN GENERAL INCLUDE THE FOLLOWING:
   A. GENERAL PROVISIONS FOR ELECTRICAL WORK
   B. WIRING, DISTRIBUTION EQUIPMENT, RACEWAYS AND DEVICES
   C. LIGHTING FIXTURES AND LAMPS
   D. MECHANICAL EQUIPMENT, MOTORS AND PLUMBING EQUIPMENT, WIRING AND CONDUIT
   E. INSTALLATION AND ALL CONNECTIONS
5. PROVIDE ALL MATERIAL AND EQUIPMENT NOT INDICATED AS EXISTING IN THE CONTRACT DOCUMENTS. ALL MATERIAL SHALL BE NEW AND THE BEST PRODUCTS OF REPUTABLE MANUFACTURERS AND SHALL BE IN NEW CONDITION AT ACCEPTANCE OF WORK.
6. PROVIDE A GUARANTEE TO COVER ALL MATERIALS, LABOR AND EQUIPMENT. GUARANTEE SHALL BE FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. GUARANTEE SHALL COVER PAYMENT FOR ANY REPAIRS OR REPLACEMENTS CAUSED BY DEFECTIVE WORKMANSHIP OR FAULTY MATERIALS WITHIN THE PERIOD COVERED BY THE GUARANTEE.
7. PROVIDE ALL SCAFFOLDING, RIGGING, HOISTING, AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES OF ANY EQUIPMENT AND APPARATUS, WHETHER FURNISHED BY THIS CONTRACT OR OWNER, AND REMOVAL OF SAME FROM PREMISES WHEN NO LONGER REQUIRED.
8. INSTALL ALL WORK IN A NEAT AND ORDERLY MANNER, USING ONLY WORKMEN THOROUGHLY QUALIFIED IN THE TRADE OR DUTIES THEY ARE TO PERFORM. ROUGH WORK WILL BE REJECTED.
9. UNLESS OTHERWISE REQUIRED BY TRADE CUSTOM OR SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS, CUTTING AND PATCHING SHALL BE DONE BY THE APPROPRIATE TRADE, PROVIDE SKETCHES SHOWING THE LOCATIONS AND SIZES OF ALL OPENINGS, CHASES, ETC. REQUIRED.
10. DO NOT CUT STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT/ENGINEER, AND ALL SUCH CUTTING SHALL BE DONE IN A MANNER DIRECTED BY HIM.
11. MAINTAIN WORK AREA CLEAN AT ALL TIMES DURING CONSTRUCTION.
12. TEST ALL LIGHTING, POWER, FIRE ALARM AND OTHER SYSTEMS. SYSTEMS SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO THE ARCHITECT/ENGINEER.
13. GENERAL PROVISIONS FOR ELECTRICAL WORK:
   A. DRAWINGS: ELECTRICAL DRAWINGS ARE CONSIDERED DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND SYSTEMS. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY LOCATION OF EQUIPMENT, ETC. COORDINATE ROUGH-IN REQUIREMENTS AND INSTALLATION REQUIREMENTS WITH OTHER TRADES.
   B. QUALITY OF MATERIALS: NEW, BEST OF THEIR RESPECTIVE KIND, FREE FROM DEFECTS, AND LISTED BY UNDERWRITERS LABORATORIES, INC. AND BEARING THEIR LABEL.
   C. VOLTAGE CHARACTERISTICS: 277/480 VOLT AND 120/208 VOLT, 3 PHASE, 4 WIRE, 60 HERTZ WITH GROUNDED NEUTRAL AS NOTED.
   D. SHOP DRAWINGS:
      (1) SUBMIT SIX (6) COPIES OF SHOP DRAWINGS FOR ALL FIXTURES AND DEVICES. OBTAIN APPROVAL BEFORE EQUIPMENT IS ORDERED, BUILT OR INSTALLED. CATALOGS, PAMPHLETS, OR OTHER DOCUMENTS SUBMITTED TO DESCRIBE ITEMS FOR WHICH APPROVAL IS BEING REQUESTED SHALL BE AS SPECIFIED AND IDENTIFICATION CATALOG, PAMPHLET, ETC., OF ITEM SUBMITTED SHALL BE CLEARLY NAMED IN INK. DATA OF A GENERAL NATURE AND FAXES WILL NOT BE ACCEPTED. SUBMITTAL SHALL INCLUDE CONTRACTOR'S NAME AND NAME OF JOB.
         a. LIGHTING FIXTURES
         b. PANEL BOARDS
         c. FUSIBLE SAFETY SWITCHES
         d. FIRE ALARM APPLIANCES AND PANELS
         e. RGS, IMC, EMT, PVC CONDUIT
      (2) THE FIRE ALARM SHOP DRAWING INCLUDING BATTERY CALCULATIONS MUST BE APPROVED BY THE LOCAL AND STATE FIRE MARSHAL'S OFFICES, AS WELL AS THE LOCAL AGENCY HAVING JURISDICTION OVER THE AMERICANS WITH DISABILITIES ACT (ADA).
   E. INSTALL ALL NEW WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES.
   F. MARK THE EXACT PROPOSED LOCATION OF CORE DRILLS SO THAT THE EXISITNG RE-BAR IN THE SLAB CAN BE LOCATED BY MEANS OF X-RAY OR RADIATION.
   G. VISIT SITE AND INSPECT EXISTING FACILITIES BEFORE BID IN ORDER TO ENSURE PROPER EVALUATION OF WORKING CONDITIONS AND LOCATION OF EXISTING EQUIPMENT.
14. WIRING, DISTRIBUTION EQUIPMENT AND DEVICES:
   A. CONDUCTORS: COPPER, IN ACCORDANCE WITH ASTM STANDARDS, SIZE REFERENCES AWG. CONDUCTORS ARE BASED ON 75° C RATING. NO. 10 AND SMALLER – SOLID, THHN OR THWN 600 VOLT; NO. 8 AND LARGER – STRANDED THWN OR THHN 600 VOLT. MINIMUM SIZE: NO. 12.
      (1) TYPE MC CABLE WITH INSULATED GROUNDING CONDUCTOR FOR BRANCH CIRCUITING AND FEEDERS, UP TO A MAXIMUM OF 60 AMPS PER CIRCUIT, MAY BE SUBSTITUTED FOR CONDUCTORS IN CONDUIT. SUPPORT CABLE EVERY 6'-0" AND WITHIN 12" OF OUTLET AND IN ACCORDANCE WITH THE NEC. CABLE MUST BE SUPPORTED IN A NEAT AND ORDERLY MANNER.
      (2) ALL CONDUCTORS SHALL BE IDENTIFIED BY COLOR AS INDICATED IN THE COLOR CODE CHART.

COLOR CODE CHART

	PHASE				
	A	B	C	NEUTRAL	GROUND
120/208V	BLACK	RED	BLUE	WHITE	GREEN
277/480V	BROWN	ORANGE	YELLOW	GRAY	GREEN

   B. RACEWAYS: (ROUTE CONCEALED BEHIND OR ABOVE BUILDING FINISHES UON)
      (1) ELECTRIC METALLIC TUBING (EMT), THIN WALL PIPE, GALVANIZED, MINIMUM 1/2" EXCEPT AS NOTED OR REQUIRED FOR WIRING.
      (2) ALL FITTINGS AND COUPLINGS SHALL BE STEEL – CAST FITTINGS PROHIBITED.
      (3) BELOW GRADE: MINIMUM 1", SCHEDULE 40 PVC, RIGID GALVANIZED STEEL CONDUIT. INTERMEDIATE METAL CONDUIT. EMT WITH COMPRESSION FITTINGS IS NOT ACCEPTABLE.
   C. TERMINATIONS: ALL EQUIPMENT PROVIDED ON THE PROJECT SHALL HAVE MANUFACTURER TERMINATIONS RATED AT 75° C.
   D. PANELBOARDS: PANELBOARDS SHALL BE SQUARE D 'NQOD' FOR 240VAC MAXIMUM, SQUARE D 'NF' FOR 480/277VAC, 400A MAXIMUM, SQUARE D 'I-LINE' FOR 600 VAC, 600A TO 1200A, MOLDED CASE, WITH BOLT-ON, BRANCH CIRCUIT BREAKERS AND COPPER BUSS. SIEMENS, CUTLER HAMMER WILL BE CONSIDERED. MATCH BASE BUILDING DISTRIBUTION EQUIPMENT. CABINETS: PANELBOARDS SHALL BE MOUNTED IN A STEEL CABINET, FLUSH OR SURFACE MOUNTED AS SHOWN ON DRAWINGS. CABINETS SHALL BE BUILT OF MATERIAL NOT THINNER THAN NO. 12 GAUGE SHEET STEEL AND LARGE ENOUGH TO CONTAIN THE PANELS AND ALLOW MINIMUM OF 4" GUTTER SPACE ALL AROUND. PROVIDE A TYPEWRITTEN DIRECTORY INSIDE EACH PANEL INDICATING THE FUNCTION AND LOCATION OF OUTLETS SERVING EACH CIRCUIT. ALL NEW PANELS SHALL PROVIDE SUFFICIENT SPACE WITHIN THE PANEL ENCLOSURES TO ALLOW FOR CHECK METERING PROVISIONS AS REQUIRED BY 1989 ASHRAE 90.1 ARTICLE 5.4.
   E. CIRCUIT BREAKERS: CIRCUIT BREAKERS SHALL BE MOLDED CASE, THERMAL-MAGNETIC QUICK-MAKE, QUICK-BREAK, BOLT-ON TYPE WITH MANUALLY OPERATED INSULATED TRIP-FREE HANDLE. MULTI-POLE TYPES WITH INTERNAL COMMON TRIP BAR. TERMINALS SUITABLE FOR COPPER CONDUCTORS.
   F. DISCONNECT SWITCHES: DISCONNECT SWITCHES SHALL BE HEAVY DUTY, ENCLOSED SAFETY SWITCHES AS MANUFACTURED BY SQUARE D. SWITCHES SHALL BE OF THE QUICK-MAKE, QUICK-BREAK TYPE WITH INTERLOCKING COVERS AND STEEL BOXES OF THE TYPE ENCLOSURE REQUIRED FOR EACH LOCATION. SIEMENS, CUTLER HAMMER WILL BE CONSIDERED. MATCH BASE BUILDING DISTRIBUTION EQUIPMENT.
   G. WIRING DEVICES: ALL DEVICES SHALL BE MOUNTED IN A RECESSED JUNCTION BOX AND SHALL BE THE PRODUCT OF THE SAME MANUFACTURER, P&S, HUBBELL, BRYANT OR ARROW-HART. DEVICES SHALL BE IVORY. RECEPTACLES DESIGNATED FOR COMPUTERS SHALL BE GRAY. ARCHITECTS SPECIFICATION FOR DEVICE COLOR AND COVER PLATE SHALL TAKE PRECEDENCE.
      (1) LIGHTING SWITCHES: 1P-20A QUIET OPERATING TYPE.
      (2) RECEPTACLES: 20A, GROUNDING TYPE, SPECIFICATION GRADE UNLESS OTHERWISE NOTED.
   H. ALL RECEPTACLES SHALL BE SPECIFICATION GRADE WITH A GROUNDING CONDUCTOR WIRED THROUGH AND CONNECTED TO ALL RECEPTACLES. PROVIDE PIGTAILS FROM GROUND CONDUCTOR, ONE TO GROUND CONNECTOR ON RECEPTACLE AND ONE TO THE BACK BOX.
   I. RECEPTACLES MOUNTED IN FIRE AND/OR SMOKE RATED WALLS SHALL BE MINIMUM 25" APART.
   J. DEVICE PLATES: PROVIDE BRUSHED STAINLESS STEEL PLATES FOR ALL DEVICES UON.
   K. OUTLET BOXES: OUTLET BOXES SHALL BE RECESSED MOUNTED AND SHALL BE CODE GAUGE STEEL AND OF SIZE REQUIRED FOR SPECIFIC CONDITIONS.
   L. COORDINATE THE LIGHTING FIXTURE LAYOUT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. ALL LIGHTING FIXTURES MOUNTED IN OR ON LAY-IN CEILING TILES SHALL BE LOCATED IN CENTER OF TILE UNLESS OTHERWISE APPROVED BY ARCHITECT.
   M. TELEPHONE/DATA OUTLETS: PROVIDE PLASTER RING FOR RECESSED MOUNTED DEVICE WITH TWO PULLSTRINGS TO CEILING PLENUM.
   N. TELEPHONE/DATA OUTLETS: FOR ALL INSULATED PARTITIONS AND WALLS, PROVIDE RECESSED DEVICE BOX WITH 3/4" CONDUIT WITH TWO PULLSTRINGS TO ACCESSIBLE CEILING PLENUM.
15. LIGHTING FIXTURES AND LAMPS: PROVIDE COMPLETE SYSTEM OF LIGHTING FIXTURES, LAMPS, ACCESSORIES AND SUPPORTS AS SPECIFIED AND SHOWN. FOR TYPES, REFER TO SCHEDULE. PROVIDE 0° BALLASTS FOR EXTERIOR FIXTURES.
16. GROUNDING SYSTEM:
   A. SERVICE: PROVIDE COMPLETE SYSTEM OF GROUND CONDUCTORS, ELECTRODES AND ACCESSORIES TO EFFECTIVELY AND PERMANENTLY GROUND ELECTRIC SERVICE.
17. FIRE ALARM SYSTEM:
   A. PROVIDE COMPONENTS AS SPECIFIED AND SHOWN. SEE FIRE ALARM SYSTEM NOTES ON PLANS AND THE SHOP DRAWING REQUIREMENTS NOTE 13.D.2. ALL DEVICES SHALL BE MOUNTED IN RECESSED JUNCTION BOX UNLESS OTHERWISE NOTED.
   B. PROVIDE FIRE ALARM SYSTEM WIRING REQUIRED. FIRE ALARM SYSTEM WIRING SHALL BE CONCEALED HCF CABLE.
   C. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION. THIS REQUIREMENT SHALL NOT PRECLUDE SYNCHRONIZATION OF APPLIANCES THAT ARE NOT WITHIN THE SAME FIELD OF VIEW. FLASH RATE SHALL NOT EXCEED 1 PER SECOND OR BE LESS THAN 1 PER 3 SECONDS.
18. INSTALLATION:
   A. SECURE ALL SUPPORTS TO BUILDING STRUCTURE. SUPPORT HORIZONTAL RUNS OF CONDUIT NOT MORE THAN 10 FEET APART. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
   B. CUT CONDUIT ENDS SQUARE, REAM SMOOTH AND DRAW UP TIGHT WITH CONDUIT COUPLINGS.
   C. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS.
   D. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH.
   E. ALL BRANCH CIRCUIT WIRING, CONDUIT AND FEEDERS SHALL BE INSTALLED CONCEALED BEHIND BUILDING FINISHES UNLESS OTHERWISE NOTED.
   F. ALL TELEPHONE/DATA CIRCUIT WIRING, AND CONDUIT SHALL BE INSTALLED CONCEALED BEHIND BUILDING FINISHES UNLESS OTHERWISE NOTED.
   G. COORDINATE LIGHT SWITCH LOCATIONS WITH DOOR SWINGS. SWITCHES SHALL BE INSTALLED ON LATCH SIDE OF DOOR AS CLOSE AS POSSIBLE TO FRAME.
   H. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
   I. JUNCTION AND PULL BOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE CONDUITS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. COORDINATE LOCATIONS WITH OTHER TRADES. PROVIDE CAST METAL JUNCTION BOXES FOR EXTERIOR LOCATIONS.
   J. PROVIDE ACCESS PANELS IN ALL UNACCESSIBLE CEILING SPACES, AS REQUIRED, BY THE N.E.C.
   K. MAINTAIN CODE REQUIRED CLEARANCES FOR DISTRIBUTION EQUIPMENT AND DEVICES IN ALL LOCATIONS.
   L. ALL WALL, FLOOR, CEILING OR ROOF PENETRATIONS SHALL BE PERPENDICULAR SO THEY CAN BE PROPERLY CAULKED AND/OR FIRESEALED TO MAINTAIN A MINIMUM 2 HOUR RATING OF PENETRATION.
   M. THE CIRCUIT NUMBERS ARE FOR IDENTIFICATION ONLY. HOMERUNS OF SIMILAR SINGLE PHASE CIRCUITS MAY BE COMBINED IN ONE CONDUIT WITH A COMMON NEUTRAL. PROVIDE NEUTRAL FOR EACH G.F.I. CIRCUIT. ONLY THREE SINGLE PHASE CIRCUITS (120V AND 277V) MAY BE COMBINED IN ANY ONE CONDUIT. ON COMPLETION OF THE PROJECT, BALANCE THE PANEL LOAD UNDER NORMAL OPERATING CONDITIONS. (MAXIMUM 10% DEVIATION BETWEEN PHASES).
   N. THE NEUTRAL CONDUCTOR SHALL BE MINIMUM SIZE #10 WHEN THREE SINGLE PHASE COMPUTER CIRCUITS ARE COMBINED IN ONE CONDUIT.
   O. 120 VOLT BRANCH CIRCUITS OVER 100 FEET FROM PANEL TO FIRST OUTLET SHALL HAVE CONDUCTORS ONE SIZE LARGER THAN INDICATED WHETHER INDICATED IN THE PANEL SCHEDULE OR NOT.
   P. PROVIDE AN ADDITIONAL CONDUCTOR SIZED TO MATCH BRANCH CIRCUIT CONDUCTORS FOR ALL GROUND FAULT CIRCUIT RECEPTACLES, EXIT LIGHTS EQUIPPED WITH EMERGENCY BATTERY PACKS AND LIGHT FIXTURES EQUIPPED WITH EMERGENCY LIGHTING BATTERY PACKS.
   Q. THE QUANTITY OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHERE CLARIFICATION IS NECESSARY ARE INDICATED. PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON PLANS OR NOT.
   R. ALL EQUIPMENT, SUCH AS STARTERS, RELAYS, CONTACTORS, SWITCHES, PANELS, AND OTHER DISTRIBUTION EQUIPMENT SHALL HAVE IDENTIFICATION PLATES OF BLACK LAMINATED PLASTIC WITH 1/2" WHITE LETTERS. EQUIPMENT IDENTIFICATION SHALL MATCH THE CONTRACT DOCUMENTS.
19. MECHANICAL COORDINATION:
   A. MECHANICAL EQUIPMENT MOTORS AND CONTROLLERS: PROVIDE ALL POWER WIRING FROM PANELS, SWITCHES, ETC. THROUGH CONTROLLERS AND TO THE MOTORS AND OTHER EQUIPMENT INDICATED ON THE PLANS.
   B. HORSEPOWER RATINGS SHOWN ARE APPROXIMATE. PROVIDE THE REQUIRED ACCESSORIES AND WIRING FOR THE MOTOR SIZES INSTALLED.
   C. ALL EXHAUST FANS SHALL HAVE SWITCHES AND FIRESTATS PROVIDED. PROVIDE AND WIRE ALL SWITCHES AND FIRESTATS.
   D. ALL JUNCTION BOXES AND/OR OUTLET BOXES NOT USED IN FINISHED AREAS SHALL HAVE STAINLESS STEEL, BLANK COVERPLATES. ALL OTHER UNUSED BOXES SHALL HAVE STANDARD STEEL COVERPLATES.

ELECTRICAL SYMBOLS

- ALL MOUNTING HEIGHTS SHALL BE AS INDICATED BELOW, UNLESS OTHERWISE NOTED OR INDICATED ON PLANS. (HEIGHT INDICATED IS TO CENTER LINE OF DEVICE).
- ALL DEVICES SHALL BE RECESSED MOUNTED FLUSH IN WALL, CEILING OR FLOOR UNLESS OTHERWISE NOTED.

S — SINGLE POLE SWITCH (+48")
S_M^3 — THREE-WAY SWITCH INFRARED OCCUPANCY SENSOR, LEVITON CATALOG #ODS15 (+48")
S_M — WALL SWITCH INFRARED OCCUPANCY SENSOR, LEVITON CATALOG #ODS10 (+48")
S^3 — THREE-WAY SWITCH (+48")
SAFETY SWITCH
DUPLEX RECEPTACLE (+18")
G.F.I. DUPLEX RECEPTACLE (+44")
WEATHERPROOF, G.F.I. DUPLEX RECEPTACLE (+18")
SPECIAL, NEMA CONFIGURATION, RECEPTACLE
TV — TELEVISION WALL OUTLET (+18")
S — RECESSED CEILING MOUNTED SPEAKER
TELEPHONE WALL OUTLET (+18")
TELEPHONE/DATA WALL OUTLET (+18")
J — JUNCTION BOX
M — MOTOR CONNECTION
120/208 VOLT, 3 PHASE, 4 WIRE PANELBOARD
277/480 VOLT, 3 PHASE, 4 WIRE PANELBOARD
BRANCH CIRCUIT WIRING. PHASE, NEUTRAL AND GREEN INSULATED GROUND CONDUCTOR UON. STRAIGHT LINE INDICATES CIRCUITS ON EMERGENCY POWER UON.
BRANCH CIRCUIT HOMERUN TO PANELBOARD. QUANTITY OF ARROWHEADS INDICATES QUANTITY OF CIRCUITS IN RUN.
CROSSMARKS INDICATE QUANTITY OF CONDUCTORS
CROSSMARK INDICATES AN ISOLATED GREEN INSULATED GROUND CONDUCTOR
CROSSMARK INDICATES NEUTRAL CONDUCTOR ONLY SHALL BE #10 AWG.
CROSSMARKS INDICATE PHASE OR SWITCH CONDUCTORS. REFER TO PANEL SCHEDULE FOR SIZE
RACEWAY UP
RACEWAY DOWN
GROUND
F — FIRE ALARM MANUAL PULL STATION (+48")
15 — FIRE ALARM VISUAL DEVICE ONLY MINIMUM 15 CANDELA STROBE (UON ON FLOOR PLAN) (+80" TO BOTTOM OF DEVICE OR 6" BELOW CEILING, WHICHEVER IS LOWEST) ADA APPROVED UON
S 15 — FIRE ALARM AUDIO/VISUAL DEVICE MINIMUM 15 CANDELA STROBE (UON ON FLOOR PLAN) (+80" TO BOTTOM OF DEVICE OR 6" BELOW CEILING, WHICHEVER IS LOWEST) ADA APPROVED UON
S — SMOKE DETECTOR CEILING MOUNTED
D — DUCT MOUNTED SMOKE DETECTOR
H — HEAT DETECTOR CEILING MOUNTED
R — CEILING OR WALL MOUNTED REMOTE INDICATOR/TEST SWITCH. WHERE WALL MOUNTED MOUNT 6" BELOW CEILING. PROVIDE PERMANENT LABEL ON DEVICE COVER IDENTIFYING EQUIPMENT.

LIGHTING FIXTURE SCHEDULE

No.	FIXTURE	MANUFACTURER	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	INPUT WATTS	RECESS DEPTH	REMARKS	NOTES
A		LIGHTOLIER	4' FLUORESCENT #CCM204796EB1	SUSPENDED	4-32W T8	277	128	--	8'-6" AFF	1,2,3,4
A1		LIGHTOLIER	4' FLUORESCENT #CCM204748EB1	SUSPENDED	4-32W T8	277	128	--	8'-6" AFF	1,2,3,4
B		LIGHTOLIER	1 x 4 DIRECT/INDIRECT #QVS1GPFLV232120SB	RECESSED	2-32W T8	277	64	5"	PROVIDE OPTION "N" FOR FIXTURES LABELLED "EM"	1,2,3,4,6
C		EXCELINE	12" PRISMATIC ACRYLIC LUMINAIRE CONSTAR EB SERIES #EB1210OH	SUSPENDED	100W --	277	100	--	--	3
D		DAY-BRITE	8' FLUORESCENT PENDANT IFD232PP	SUSPENDED	2-32W T8	277	128	--	8'-6" AFF	1,2,3,4
E		DAY-BRITE	4' FLUORESCENT PENDANT IFD232PP	SUSPENDED	2-32W T8	277	64	--	8'-6" AFF	1,2,3,4
F		LITHONIA	GENERAL PURPOSE STRIP #C2321201/4AL	SURFACE	2-32W T8	277	64	--	--	1,2,3,4
F1		LITHONIA	GENERAL PURPOSE STRIP #C1982801201/4AL	SURFACE	1-86W T8	277	86	--	--	1,2,3,4
G		LIGHTOLIER	SURFACE MOUNT QVW8SPFOS2FT	SURFACE	2 TT5 --	277	80	--	--	3
H		LITHONIA	PRECISE EDGE-LIT EXITS #LRPRC120ELN	SURFACE	INCLUDED	277	2.7	--	--	1,2,3,4
I		MCPHILBEN	CAKE	SURFACE	LAMPS UNKT	120/ 277	9	NA	EMERGENCY	4,5
J		LYTECASTER	EXTERIOR FIXTURE 1177SH-1102F1	SURFACE	GX23-2 13W QUAD	277	52	7 5/8"	--	1,2,3,4
K		LITHONIA	MULTIPURPOSE STRIP WC232120GEB	--	2-32W T8	277	64	--	--	1,2,3,4
L		DAY-BRITE	WALL LIGHT WL100M277PE	--	100W --	277	100	--	--	3,4
M		OMEGA	RECESSED DOWNLIGHT OM826QPL	--	1-26QPL --	277	26	--	PROVIDE OPTION FOR FIXTURES LABELLED "EM"	1,2,3,4
N		HADCO	I4 G H FL 100 277	SURFACE	100W MH	277	100	--	--	--
P		LITHONIA	LTE-STPC-WB	SURFACE	PAR30 75W	120	75	--	TRACK #LT4WH	--
Q		LYTECASTER	DOWNLIGHT #1071-1002F1	RECESSED	GX23-2 13W QUAD	277	52	6 3/4"	--	1,2,3,4

LIGHTING FIXTURE NOTES

* EQUAL LIGHTING FIXTURE MANUFACTURERS WILL BE CONSIDERED.

1. ALL NEW FLUORESCENT FIXTURES SHALL BE PROVIDED WITH ENERGY SAVING LAMPS AND ELECTRONIC BALLASTS.
2. ALL NEW FLUORESCENT LAMPS SHALL BE THE SAME COLOR TEMPERATURE, 3500K, UNLESS OTHERWISE NOTED.
3. SUPPORT ALL RECESSED FIXTURES FROM BUILDING STRUCTURE WITH MINIMUM #12 AWG, FROM EACH CORNER OF FIXTURE FOR TYPES A, A1, B, D,F,F1,K, AND L AND FROM OPPOSITE SIDES FOR TYPES C, E, G, J, M AND Q.
4. FOR EXACT LIGHTING LOCATIONS, SEE ARCHITECTURAL REFLECTING CEILING PLANS.
5. PROVIDE MOUNTING TYPES AND DIRECTIONAL ARROWS AS INDICATED ON THE FLOOR PLANS.

ELECTRICAL ABBREVIATIONS

A	AMPS	KW	KILOWATT
AWG	AMERICAN WIRE GUAGE	+	MOUNTING HEIGHT (ABOVE FINISHED FLOOR)
C	CONDUIT	MLO	MAIN LUGS ONLY
EX.	EXISTING	#	NUMBER
EC	EMPTY CONDUIT W/PULL WIRE	P	POLE
EF	EXHAUST FAN	ø	PHASE
EM	EMERGENCY	PFF	PROVISIONS FOR FUTURE
EMT	ELECTRIC METALLIC TUBING	PVC	POLYVINYL CHLORIDE
FACP	FIRE ALARM CONTROL PANEL	RGS	RIGID GALVANIZED STEEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL	RTU	ROOF TOP UNIT
FLA	FULL LOAD AMPS	V	VOLTAGE
FSS	FUSED SAFETY SWITCH	W	WIRE
GFI	GROUND FAULT INTERRUPTER	WP	WEATHERPROOF
GND	GROUND	UON	UNLESS OTHERWISE NOTED
HP	HORSEPOWER		
IMC	INTERMEDIATE METAL CONDUIT		
KVA	KILOVOLT AMPS		

DRAWING LIST

E1.0 COVER SHEET – ELECTRICAL
E2.0 SITE PLAN – ELECTRICAL
E3.0 GROUND AND FIRST FLOOR PLAN – LIGHTING
E3.1 SECOND FLOOR AND MEZZANINE LEVEL PLAN – LIGHTING
E4.0 GROUND AND FIRST FLOOR PLAN – POWER
E4.1 SECOND FLOOR AND MEZZANINE LEVEL PLAN – POWER
E5.0 GROUND AND FIRST FLOOR PLAN – MECHANICAL POWER
E5.1 SECOND FLOOR AND MEZZANINE LEVEL PLAN – MECHANICAL POWER
E5.2 ROOF PLAN – ELECTRICAL
E6.0 GROUND AND FIRST FLOOR PLAN – FIRE ALARM
E6.1 SECOND FLOOR AND MEZZANINE LEVEL PLAN – FIRE ALARM
E7.0 PANEL SCHEDULES & RISER DIAGRAM
E8.0 DETAILS

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DRAWING TITLE:
COVER SHEET – ELECTRICAL

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CONSTRUCTION SET	18 APRIL 2005

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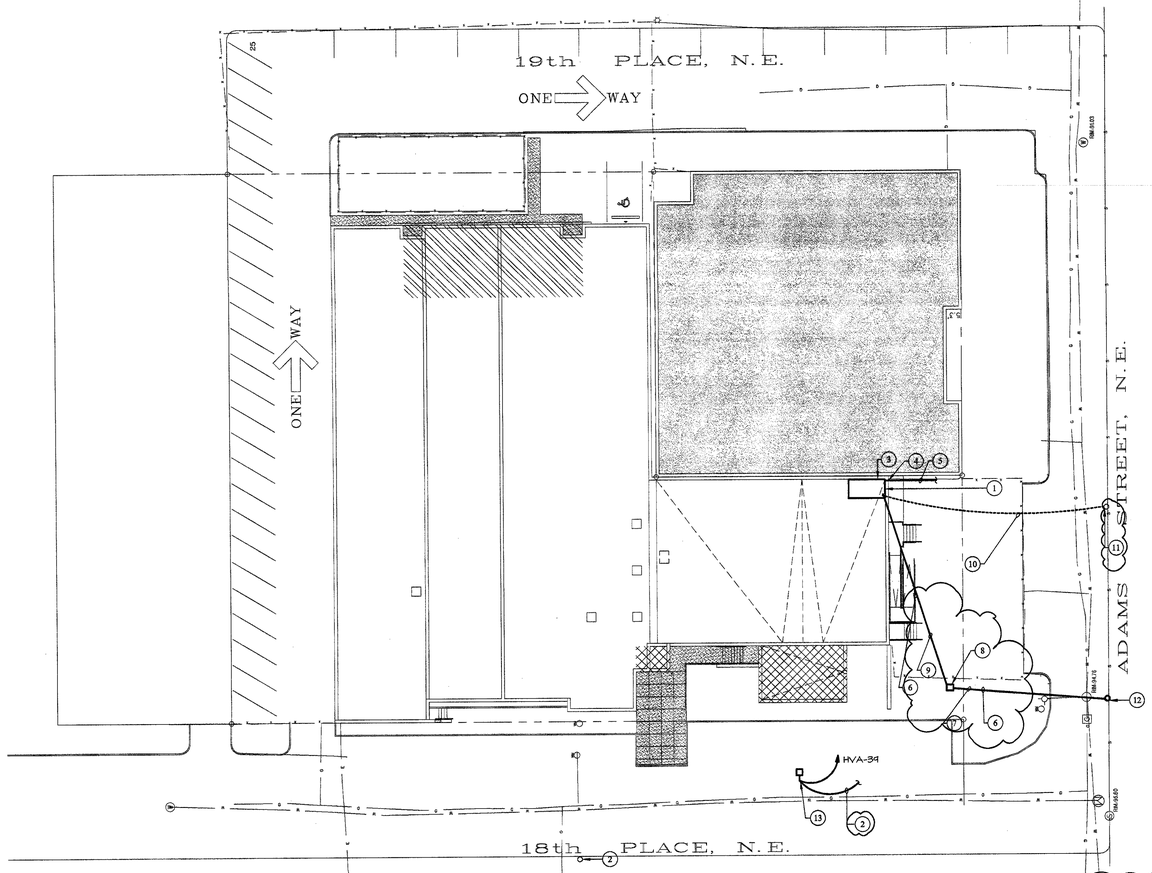
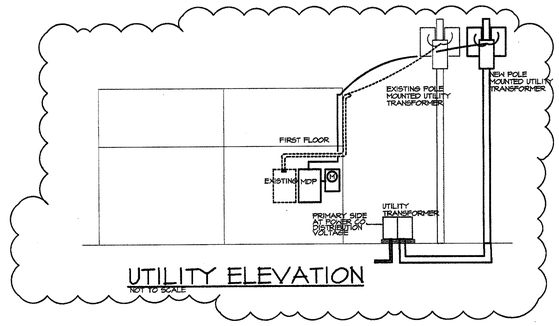


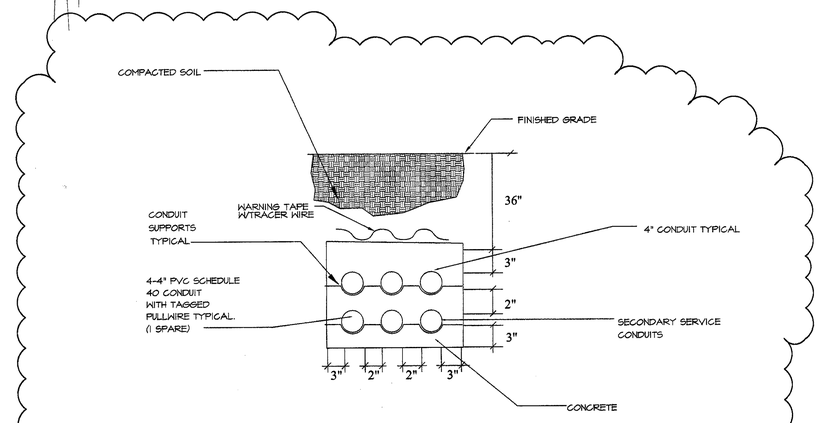
SITE PLAN - ELECTRICAL
SCALE: 1" = 20'

NOTES

1. LOCATION OF MAIN ELECTRICAL ROOM ON GROUND LEVEL.
2. TO REMOTE CONTROL SWITCH, REFER TO PHOTOCELL/TIMECLOCK LIGHTING CONTROL DETAIL ON SHEET E0.0.
3. SERVICE ENTRANCE PANEL AND ELECTRICAL DISTRIBUTION EQUIPMENT, SEE SHEET E4.0 FOR EXACT LOCATION IN BUILDING.
4. TELEPHONE SERVICE AND CATV SERVICE PLYWOOD ENTRANCE. SEE SHEET E4.0 FOR EXACT LOCATION IN BUILDING. TERMINATE AT PROPERTY LINE.
5. 1-4" E.C. 36" BELOW GRADE FOR CATV SERVICE. COORDINATE EXACT LOCATION WITH LOCAL CATV COMPANY. TERMINATE AT PROPERTY LINE.
6. INCOMING UNDER GROUND CABLES FROM PEPCO.
7. 2-6" PVC CONDUITS FOR UTILITY PRIMARY CONDUITS - STUB OUT 5' BEYOND TRANSFORMER PAD.
8. PROPOSED LOCATION OF POWER COMPANY PAD AND PAD MOUNTED TRANSFORMER. INSTALLED TO POWER COMPANY SPECIFICATIONS. PAD MOUNTED TRANSFORMER FURNISHED AND INSTALLED BY POWER COMPANY. COORDINATE EXACT LOCATION WITH CIVIL ENGINEER, OWNER, AND UTILITY COMPANY PRIOR TO INSTALLATION.
9. ELECTRICAL SECONDARY SERVICE ENTRANCE DUCTBANK. SEE DETAIL A-A THIS SHEET.
10. INCOMING OVERHEAD SERVICE DROP TO BE REMOVED BY UTILITY.
11. LOCATION OF EXISTING POLE MOUNTED UTILITY TRANSFORMERS.
12. LOCATION OF NEW POLE MOUNTED UTILITY TRANSFORMER. SEE DETAIL THIS SHEET.
13. LOCATION OF EXTERIOR LIGHT FIXTURE FOR FLAGPOLE. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.



UTILITY ELEVATION
NOT TO SCALE



SIX WAY ELECTRICAL SECONDARY SERVICE ENTRANCE DUCT BANK DETAIL "A-A"
NOT TO SCALE

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DRAWING TITLE:
SITE PLAN - ELECTRICAL

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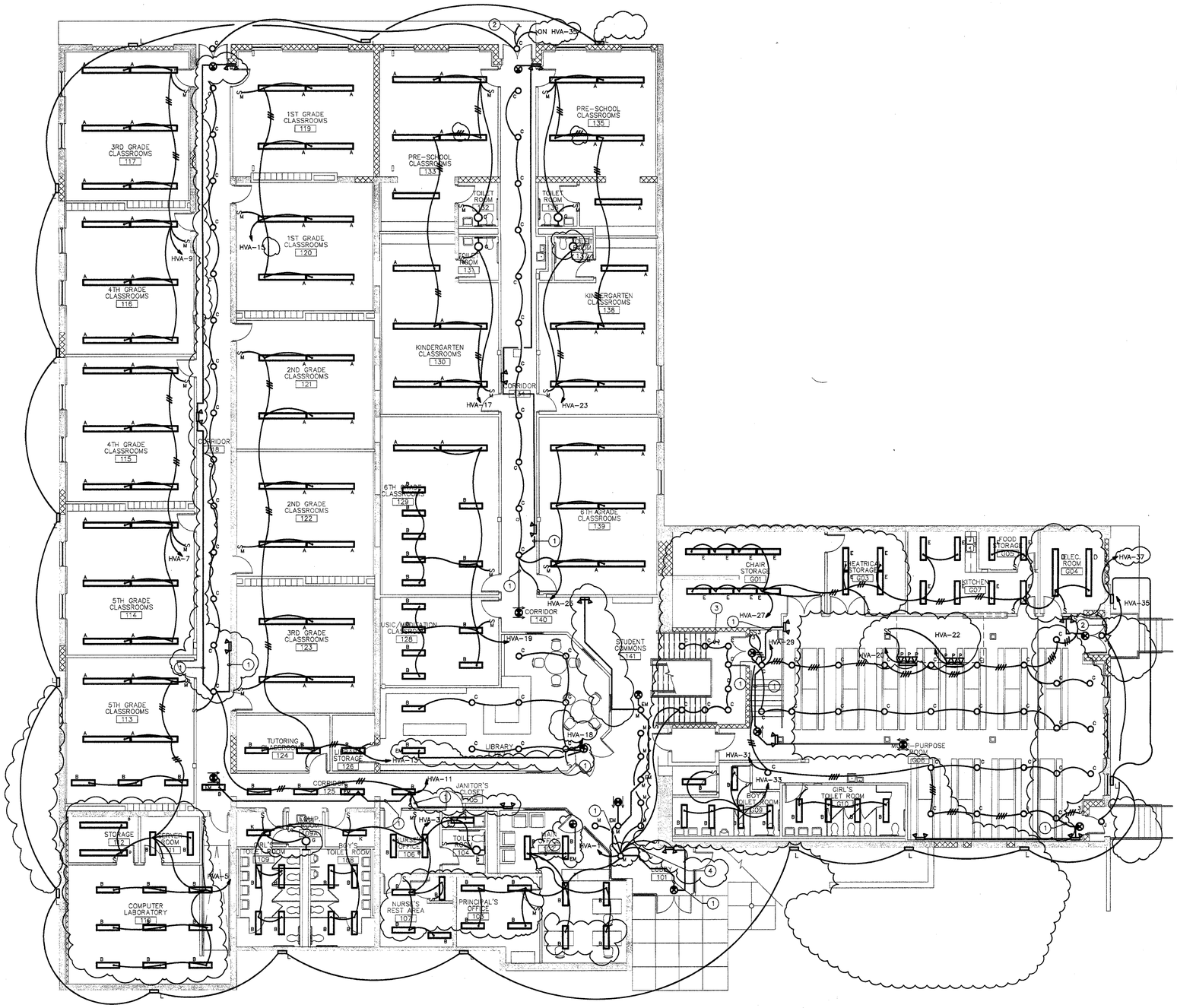

NOTES

- ALL BATTERY PACKS ARE TYPE I UNLESS NOTED OTHERWISE.

1. CONNECT ON LINE SIDE AHEAD OF SWITCH AS PER ART. 700-12e OF THE NEC.
2. TO REMOTE CONTROL SWITCH. REFER TO PHOTOCELL/TIMECLOCK LIGHTING CONTROL DETAIL ON SHEET E8.0.
3. UP TO LIGHT FIXTURES ON SECOND FLOOR CORRIDOR 218.
4. UP TO LIGHT FIXTURE ON MEZZANINE LEVEL.

GROUND AND FIRST FLOOR PLAN – LIGHTING

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

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GROUND AND FIRST FLOOR PLAN – LIGHTING

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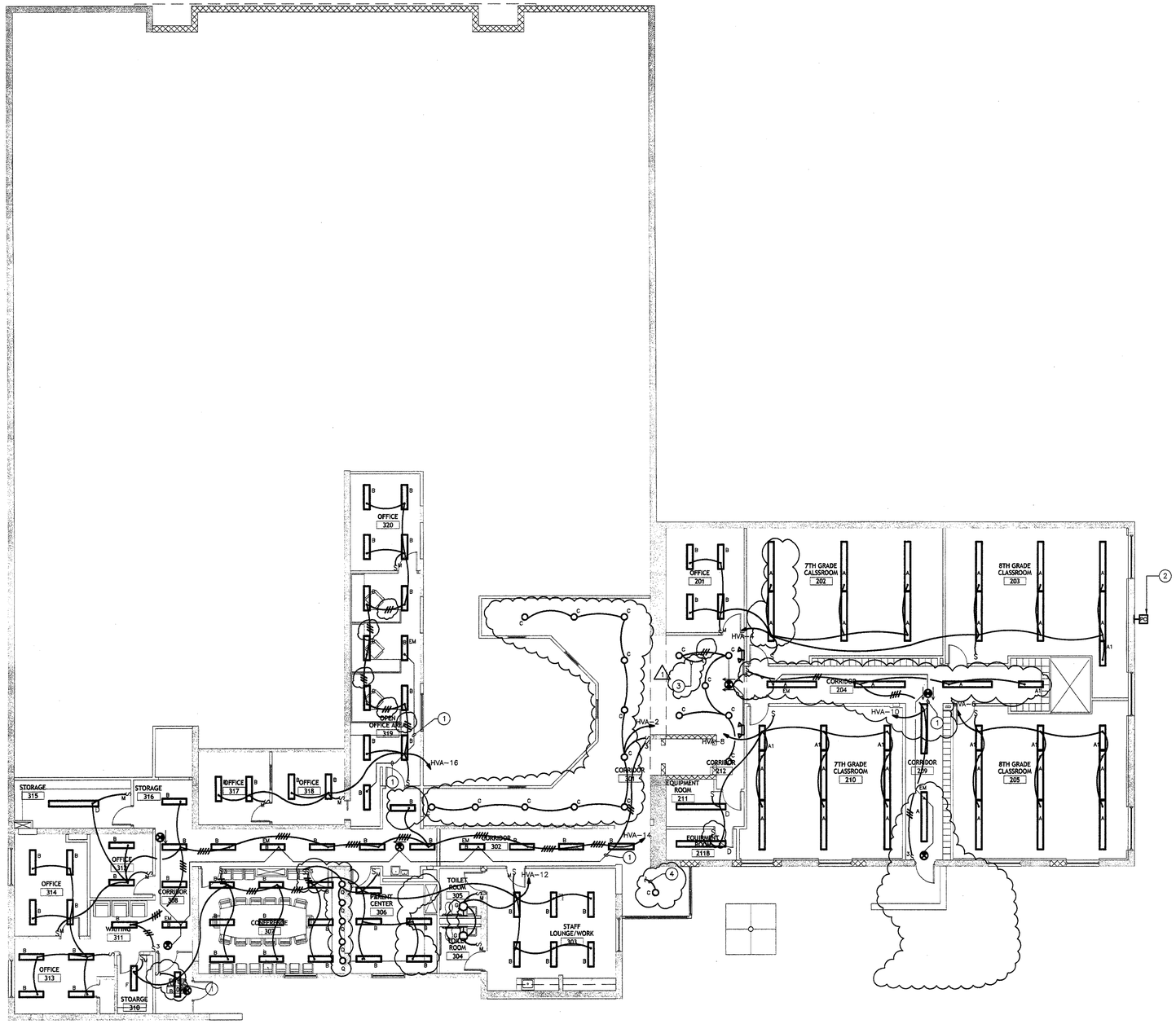
NOTES

* ALL BATTERY PACKS ARE TYPE 1 UNLESS NOTED OTHERWISE.

1. CONNECT ON LINE SIDE AHEAD OF SWITCH AS PER ART. 700-12e OF THE NEC.
2. PHOTOCELL TORK CATALOG #2104 MOUNTED ON ROOF.
3. DOWN TO LIGHT FIXTURES ON FIRST FLOOR IN STUDENT COMMONS 141.



SECOND FLOOR AND MEZZANINE LEVEL PLAN – LIGHTING

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

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ELECTRICAL ENGINEERING SECTION

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SECOND FLOOR AND MEZZANINE LEVEL PLAN – LIGHTING

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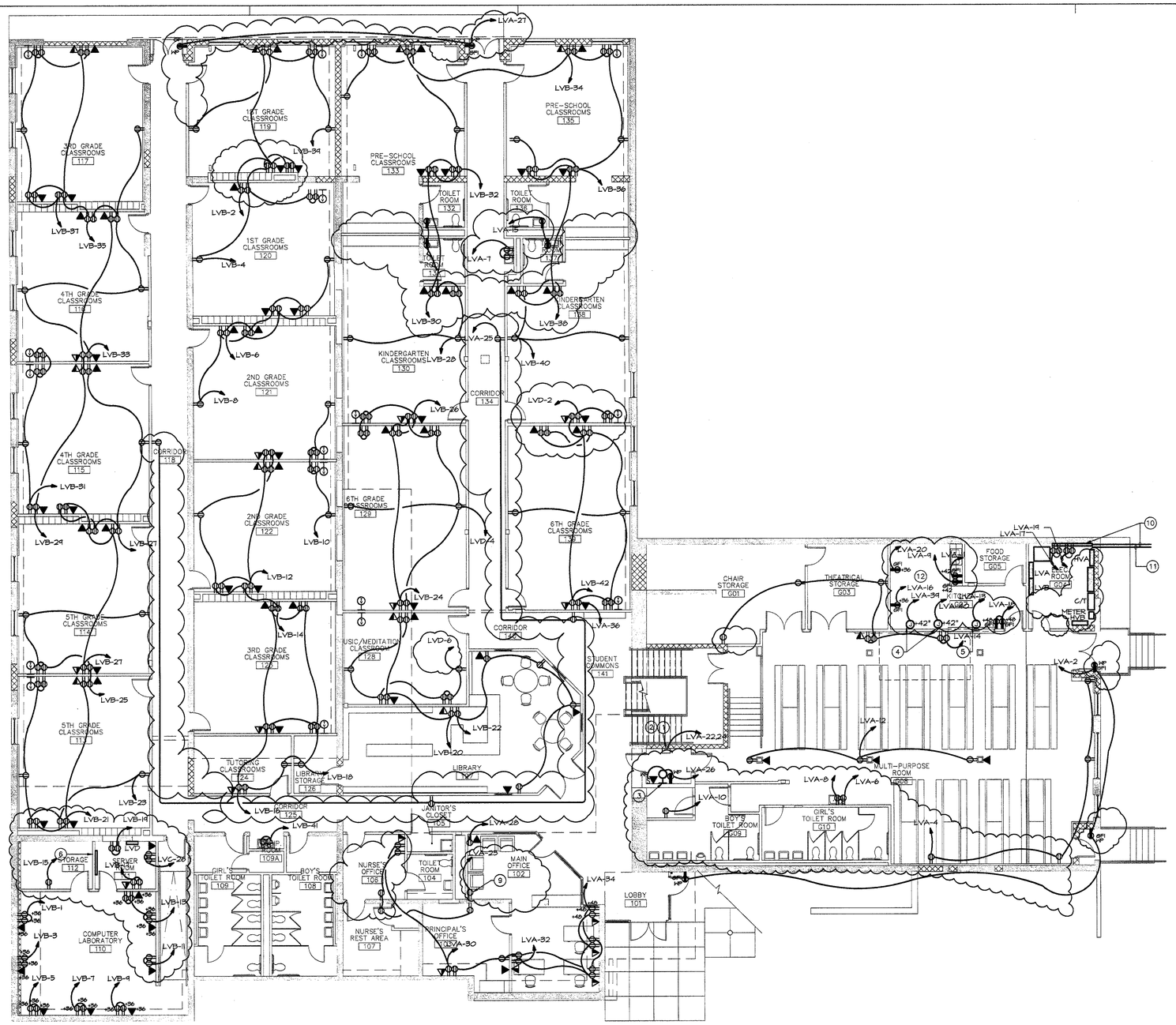

NOTES

1. V-1504, STD VERTICAL PLATFORM LIFT. PROVIDE 30A, 2P, +S.N. 240V, PSS. FUSES AS REQUIRED BY UNIT MANUFACTURER. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
2. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR.
3. APPLETON #VAI0756-A IN ELEVATOR PIT.
4. PROVIDE JUNCTION BOX FOR HEATED CABINET, 7.5A, 240V/1Φ.
5. PROVIDE JUNCTION BOX FOR STEAM TABLE IGNITER.
6. TELEPHONE BOARD, 4' x8' x 3/4".
9. PROVIDE NEMA RECEPTACLE FOR COPIER. COORDINATE EXACT EQUIPMENT REQUIREMENTS WITH COPIER SPECIFICATIONS PRIOR TO ROUGH-IN.
10. TELEPHONE BACKBOARD. SEE SHEET E8.0 FOR DETAIL.
11. CATV SERVICE. SEE SITE PLAN ON SHEET E2.0 FOR CONTINUATION.
12. KITCHEN EQT: NOT COMMERCIAL KITCHEN. PROVIDE JUNCTION BOXES FOR HEATED STEAM CABINET AND STEAM TABLE IGNITOR AS NOTED ABOVE.

GROUND AND FIRST FLOOR PLAN – POWER

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

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GROUND AND FIRST FLOOR PLAN – POWER

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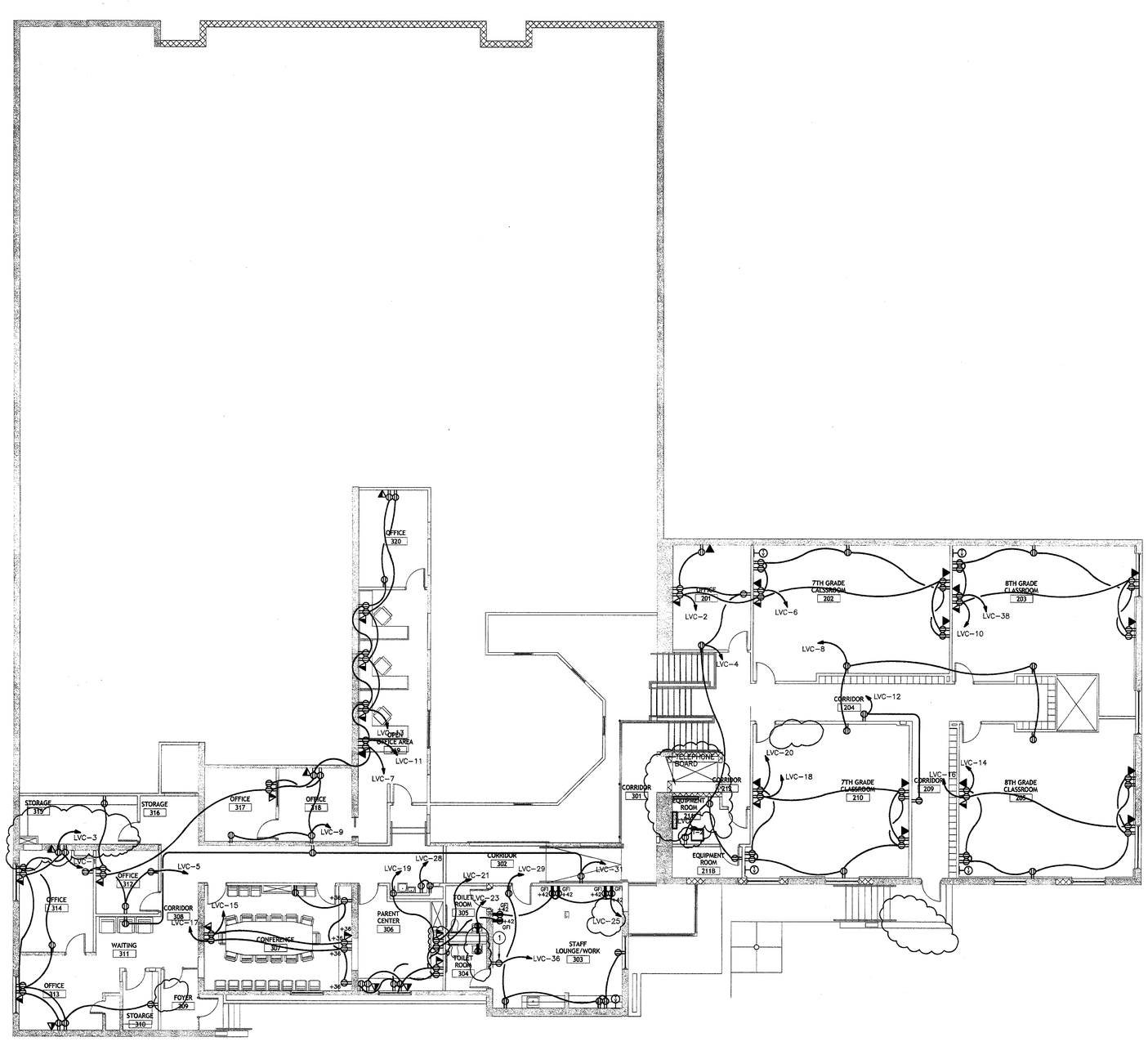
NOTES

1. PROVIDE NEW RECEPTACLE FOR COPIER. COORDINATE EXACT EQUIPMENT REQUIREMENTS WITH COPIER SPECIFICATIONS PRIOR TO ROUGH-IN.



MEZZANINE AND SECOND FLOOR PLAN – POWER

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

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DRAWING TITLE:
SECOND FLOOR AND MEZZANINE LEVEL PLAN – POWER

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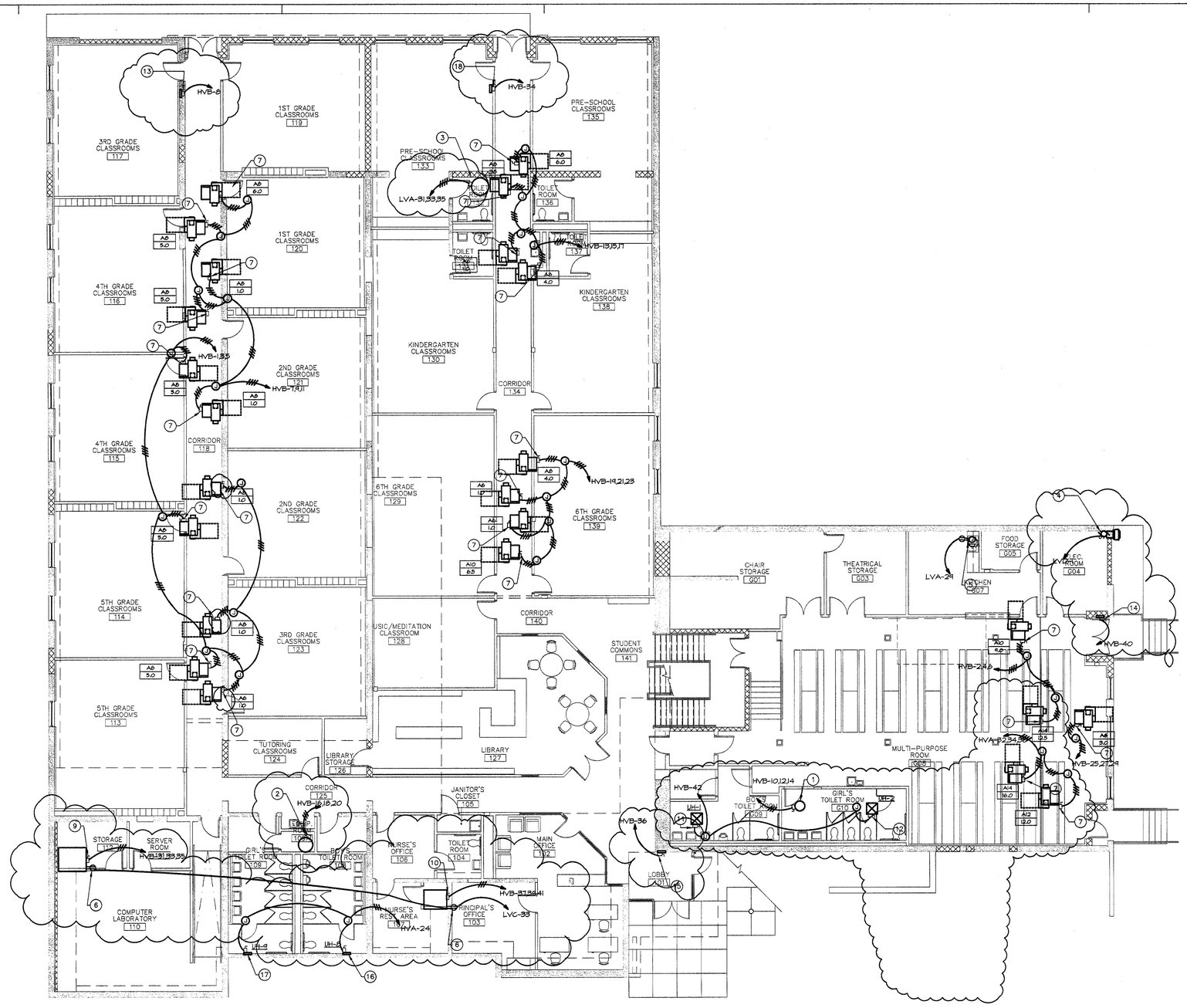
E4.1

CONSTRUCTION SET



NOTES

1. EWH-1: 4.5KW, 480V/3ø. PROVIDE 30A, 3P, 600V FSS WITH FUSES AS REQUIRED BY UNIT MANUFACTURER.
2. EWH-3: 12KW, 480V/3ø. PROVIDE 30A, 3P, 600V FSS WITH FUSES AS REQUIRED BY UNIT MANUFACTURER.
3. EWH-2: 4.0KW, 208V/3ø. PROVIDE 30A, 3P, +S.N., 600V FSS. COORDINATE EXACT LOCATION WITH PLUMBING DRAWINGS.
4. EF-3: 0.125HP, 120V, 1Ø EXHAUST FAN WITH INTEGRAL DISCONNECT SWITCH AND UNIT MOUNTED VARIABLE SPEED SWITCH.
5. DISPOSAL: 1/3 HP, 120V, 1Ø. PROVIDE DUPLEX RECEPTACLE UNDER COUNTER. PROVIDE 20A, 1P, 120V TOGGLE DISCONNECT +44" A.F.F. PROVIDE CORD AND PLUG SET CONNECTION BELOW COUNTER PROVIDED BY DIVISION 15.
6. PROVIDE PLENUM MOUNTED RECEPTACLE FOR POWER TO CONDENSATE PUMP.
7. PROVIDE 30A, 3P, 600V ♦ S.N., F.S.S. WITH FUSES AS PER UNIT MANUFACTURER.
8. PROVIDE 30A, 2P, +S.N., 600V FSS. COORDINATE EXACT LOCATION WITH PLUMBING DRAWINGS.
9. AC-1: 1 FAN @ 5.0 HP, ELECTRIC HEATING COIL @ 21.0 KW, 42A UNIT MCA, 480V/3ø. PROVIDE 60A, 3P, +S.N., 600V FSS WITH FUSES AS REQUIRED BY UNIT MANUFACTURER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
10. AC-2: 1 FAN @ 2.0 HP, ELECTRIC HEATING COIL @ 14.0 KW, 23A UNIT MCA, 480V/3ø. PROVIDE 30A, 3P, +S.N., 600V FSS WITH FUSES AS REQUIRED BY UNIT MANUFACTURER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
11. UH-1: 2KW, 277V/1Ø HEATER WITH BUILT IN DISCONNECT SWITCH.
12. UH-2: 2KW, 277V/1Ø HEATER WITH BUILT IN DISCONNECT SWITCH.
13. UH-3: 3KW, 277V/1Ø HEATER WITH BUILT IN DISCONNECT SWITCH.
14. UH-6: 3KW, 277V/1Ø HEATER WITH BUILT IN DISCONNECT SWITCH.
15. UH-5: 4KW, 277V/1Ø HEATER WITH BUILT IN DISCONNECT SWITCH.
16. UH-8: 2KW, 277V/1Ø HEATER WITH BUILT IN DISCONNECT SWITCH.
17. UH-9: 2KW, 277V/1Ø HEATER WITH BUILT IN DISCONNECT SWITCH.
18. UH-4: 3KW, 277V/1Ø HEATER WITH BUILT IN DISCONNECT SWITCH.

GROUND AND FIRST FLOOR PLAN – MECHANICAL POWER

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

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

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PROJECT:

TREE OF LIFE - PUBLIC CHARTER SCHOOL

2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:

GROUND AND FIRST FLOOR PLAN – MECHANICAL POWER

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

STAMP: DISTRICT OF COLUMBIA · BERNARD E. DUPONT · No. PE8239 · REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: KML
DATE:
FOX PROJECT NO.:

DRAWING NUMBER
E5.0

CONSTRUCTION SET

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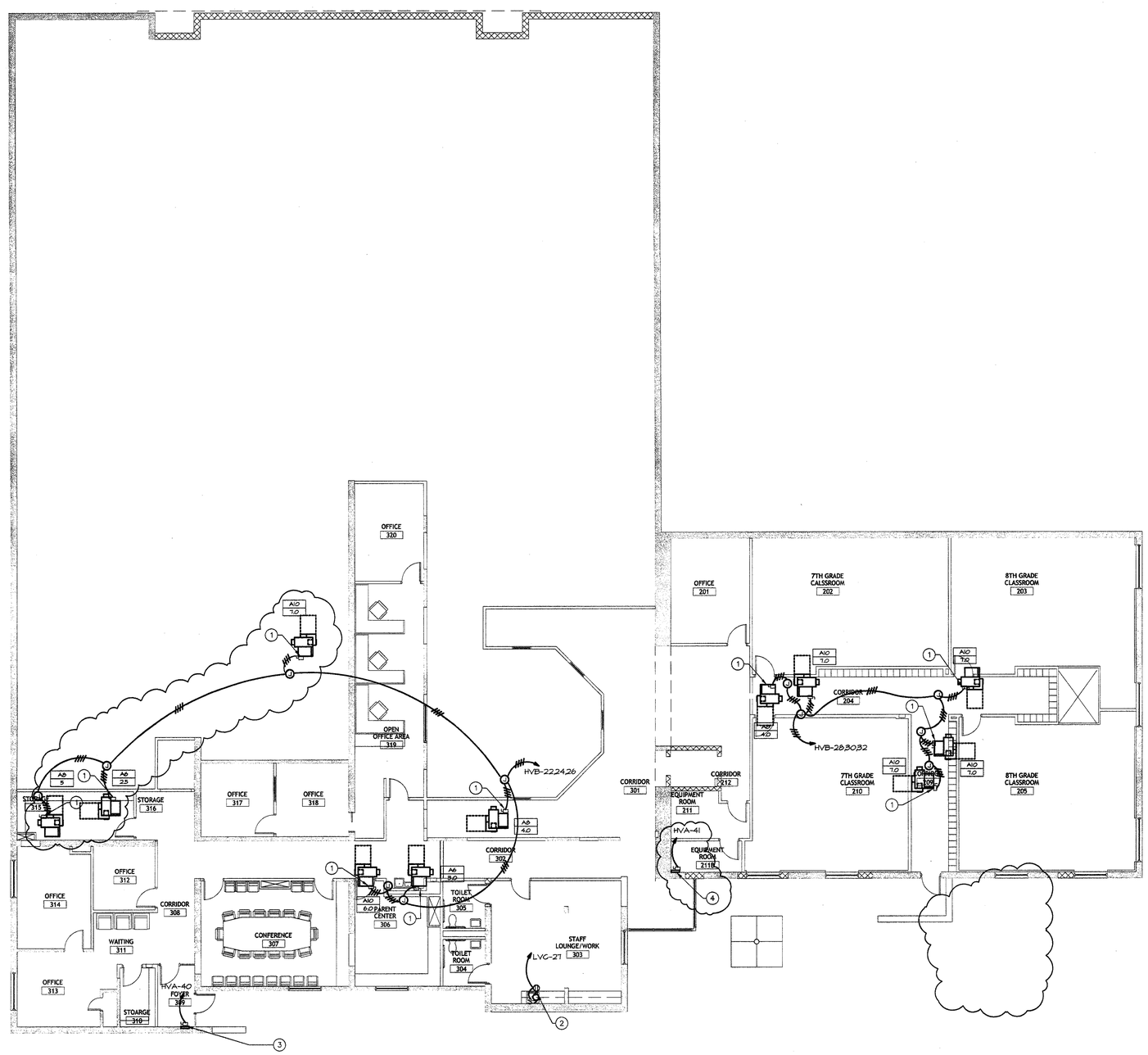

NOTES

1. PROVIDE 30A, 3P, 600V & S.N., F.S.S. WITH FUSES AS PER UNIT MANUFACTURER.
2. DISPOSAL: 1/3 HP, 120V, 1Ø. PROVIDE DUPLEX RECEPTACLE UNDER COUNTER. PROVIDE 20A, 1P, 120V TOGGLE DISCONNECT +44" A.F.F. PROVIDE CORD AND PLUG SET CONNECTION BELOW COUNTER PROVIDED BY DIVISION 15.
3. UH-7: 3KW, 277V/1Ø HEATER WITH BUILT IN DISCONNECT SWITCH.
4. UH-10: 3KW, 277V/1Ø HEATER WITH BUILT IN DISCONNECT SWITCH.

SECOND FLOOR AND MEZZANINE LEVEL PLAN – MECHANICAL POWER

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

MAY 0 9 2005

FOX ARCHITECTS

PROJECT:

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TREE OF LIFE - PUBLIC CHARTER SCHOOL

2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:

SECOND FLOOR AND MEZZANINE LEVEL PLAN – MECHANICAL POWER

ISSUED:

PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

STAMP:

DISTRICT OF COLUMBIA
RICHARD S. CUDITT
No. PE8239
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: KML
DATE:
FOX PROJECT NO.:

DRAWING NUMBER
E5.1

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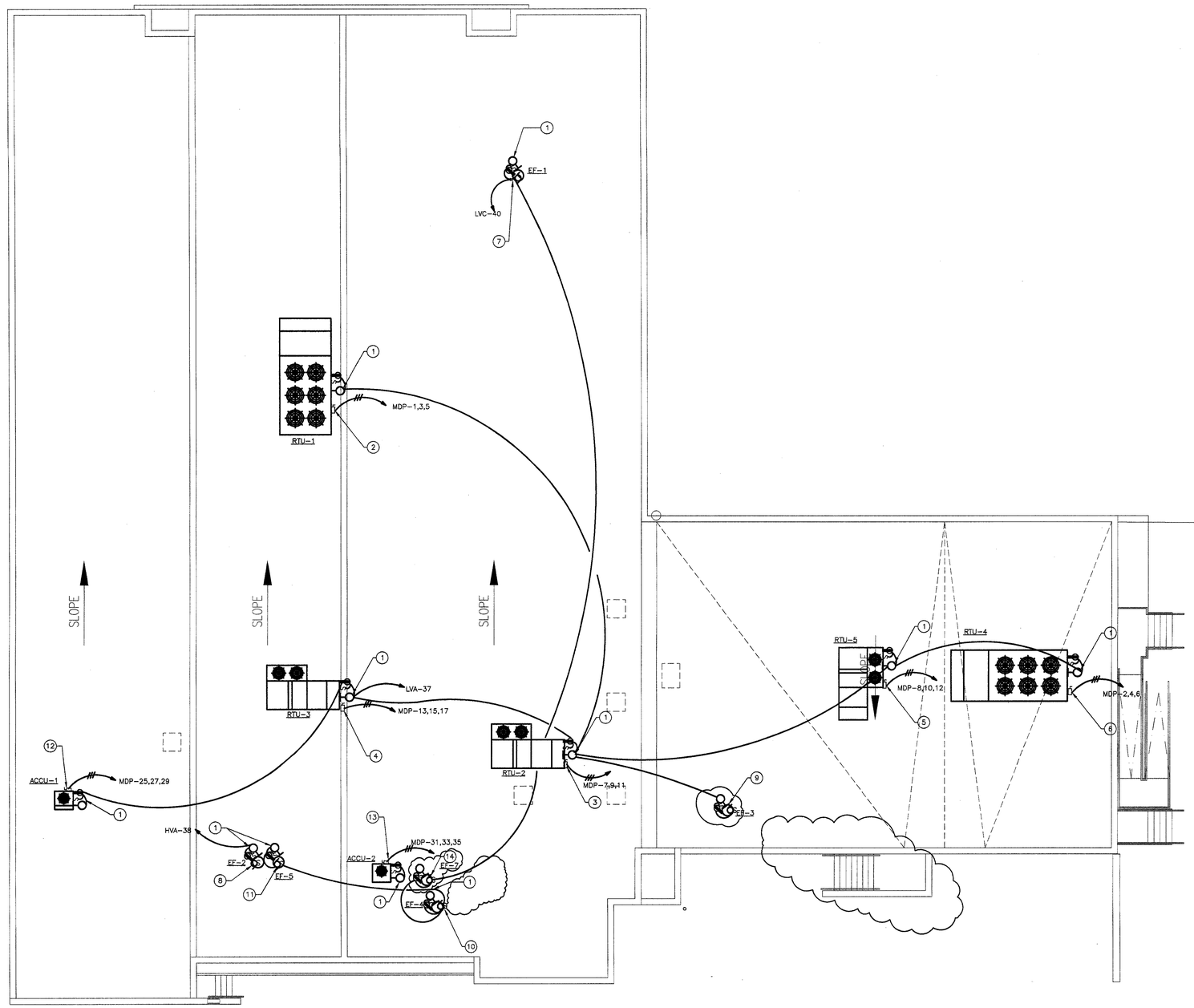
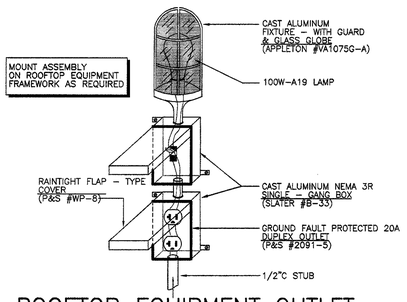
CONSTRUCTION SET



ROOF PLAN – ELECTRICAL
SCALE: 1/8" = 1'-0"

NOTES

1. REFER TO ROOFTOP EQUIPMENT OUTLET/LIGHT SWITCH COMBINATION UNIT DETAIL ON THIS SHEET.
2. RTU-1: 2 SUPPLY FANS @ 7.5 HP, 2 RELIEF FANS @ 2 HP, 4 COMPRESSORS @ 15.5 RLA, 4 CONDENSOR FANS @ 0.75 HP, 2 ENERGY WHEELS @ .17 HP, 106A UNIT MCA, 480/3ø. PROVIDE A 200A, 3P, 600V, NEMA 3R, F.S.S. PROVIDE FUSES AS PER UNIT MANUFACTURER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
3. RTU-2: 1 SUPPLY FAN @ 3 HP, 1 RELIEF FAN @ 1 HP, 2 COMPRESSORS @ 9 RLA, 1 CONDENSOR FANS @ 0.75 HP, ENERGY WHEEL @ .05 HP, 30A UNIT MCA, 480V/3ø. PROVIDE A 60A, 3P, 600V, NEMA 3R, F.S.S. PROVIDE FUSES AS PER UNIT MANUFACTURER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
4. RTU-3: 1 SUPPLY FAN @ 2 HP, 1 RELIEF FAN @ 1 HP, 1 COMPRESSORS @ 9 RLA, 1 CONDENSOR FAN @ 0.33 HP, ENERGY WHEEL @ .03 HP, 18A UNIT MCA, 480V/3ø. PROVIDE A 60A, 3P, 600V, NEMA 3R, F.S.S. PROVIDE FUSES AS PER UNIT MANUFACTURER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
5. RTU-5: 1 SUPPLY FAN @ 15 HP, 2 RELIEF FANS @ 2 HP, 4 COMPRESSORS @ 11 RLA, 4 CONDENSOR FANS @ 0.75 HP, 2 ENERGY WHEEL @ .17 HP, 480V/3ø. PROVIDE A 100A, 3P, 600V, NEMA 3R, F.S.S. PROVIDE FUSES AS PER UNIT MANUFACTURER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
6. RTU-4: 1 SUPPLY FAN @ 5 HP, RELIEF FAN @ 2 HP, 2 COMPRESSORS @ 9 RLA, 2 CONDENSOR FANS @ 0.75 HP, ENERGY WHEEL @ .05 HP, 480V/3ø. PROVIDE A 60A, 3P,600V, NEMA 3R, F.S.S. PROVIDE FUSES AS PER UNIT MANUFACTURER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
7. EF-1: 0.125HP, 120V, 1ø EXHAUST FAN WITH INTEGRAL DISCONNECT SWITCH AND UNIT MOUNTED VARIABLE SPEED SWITCH.
8. EF-2: 0.125HP, 277V, 1ø EXHAUST FAN WITH INTEGRAL DISCONNECT SWITCH AND UNIT MOUNTED VARIABLE SPEED SWITCH.
9. EF-3: 0.25HP, 120V, 1ø EXHAUST FAN WITH INTEGRAL DISCONNECT SWITCH AND UNIT MOUNTED VARIABLE SPEED SWITCH.
10. EF-4: 0.25HP, 120V, 1ø EXHAUST FAN WITH INTEGRAL DISCONNECT SWITCH AND UNIT MOUNTED VARIABLE SPEED SWITCH.
11. EF-5: 0.125HP, 120V, 1ø EXHAUST FAN WITH INTEGRAL DISCONNECT SWITCH AND UNIT MOUNTED VARIABLE SPEED SWITCH.
12. ACCU-1: 2 COMPRESSORS @ 7.1 RLA, 1 CONDENSOR FAN @ 3.5 FLA, 19A UNIT MCA, 480V/3ø. PROVIDE A 30A, 3P, 600V, NEMA 3R, F.S.S. PROVIDE FUSES AS PER UNIT MANUFACTURER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
13. ACCU-2: 2 COMPRESSORS @ 3.9 RLA, 1 CONDENSOR FAN @ 3.5 FLA, 12A UNIT MCA, 480V/3ø. PROVIDE A 30A, 3P, 600V, NEMA 3R, F.S.S. PROVIDE FUSES AS PER UNIT MANUFACTURER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
14. EF-7: 0.03HP, 120V, 1ø EXHAUST FAN WITH INTEGRAL DISCONNECT SWITCH AND UNIT MOUNTED VARIABLE SPEED SWITCH.



ROOFTOP EQUIPMENT OUTLET LIGHT/SWITCH COMBINATION UNIT
NOT TO SCALE

MAY 09 2005

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

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PROJECT:
TREE OF LIFE -
PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

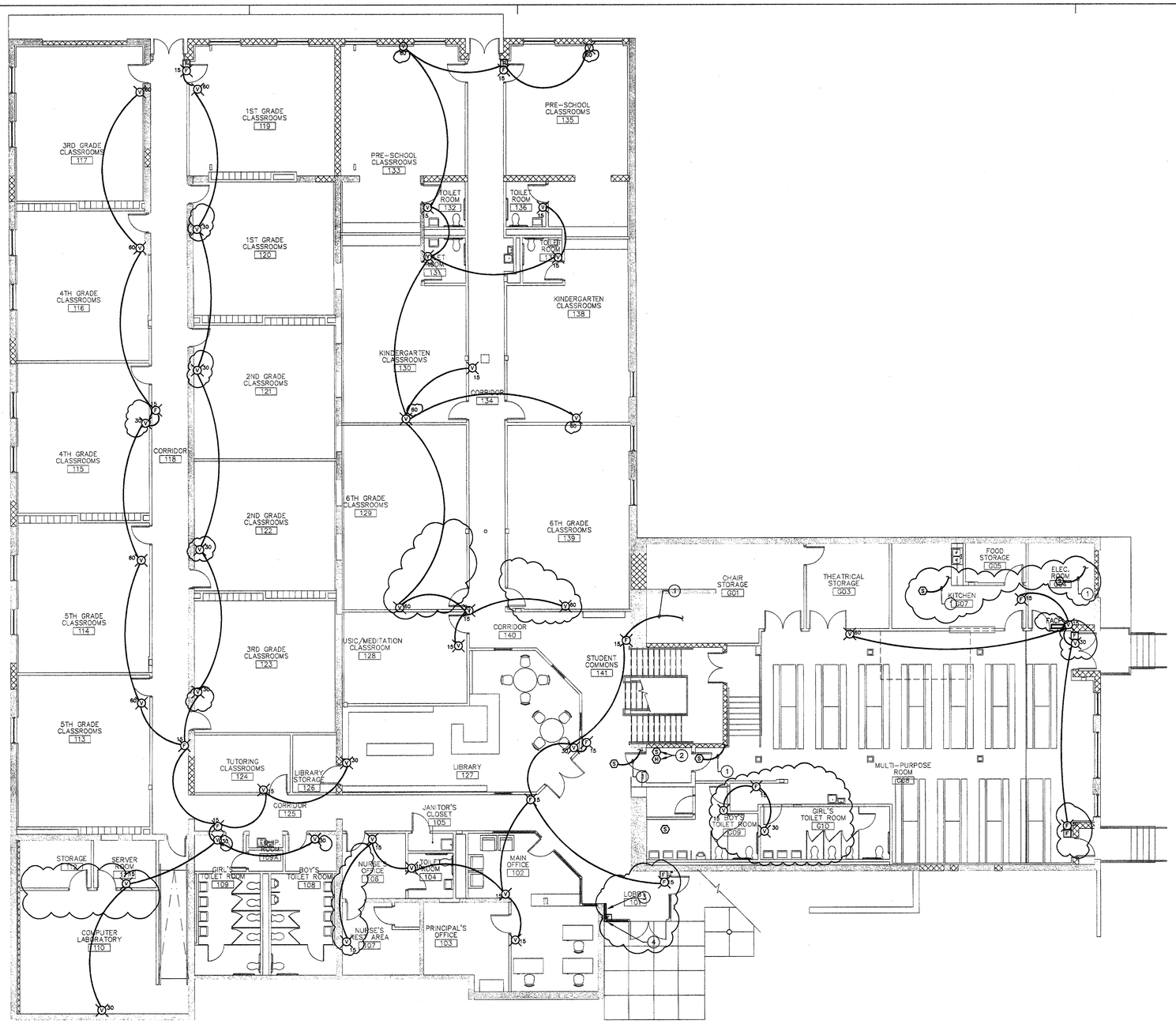
DRAWING TITLE:
ROOF PLAN – ELECTRICAL

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

STAMP: DISTRICT OF COLUMBIA – REGISTERED PROFESSIONAL ENGINEER – No. PE8239

DRAWN BY: KML
DATE:
FOX PROJECT NO.:

DRAWING NUMBER
E5.2



NOTES

1. CONNECT TO FIRE ALARM CONTROL PANEL. TYPICAL.
2. PROVIDE ADDITIONAL DEVICES WITHIN 2' OF SPRINKLER HEAD.
3. FIRE ALARM ANNUNCIATOR PANEL LOCATION.
4. FIRE ALARM PULL STATION LOCATED BELOW FIRE ALARM ANNUNCIATOR PANEL.

GROUND AND FIRST FLOOR PLAN – FIRE ALARM
SCALE: 1/8" = 1'-0"

MAY 09 2005

CONSTRUCTION SET

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

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PROJECT:

TREE OF LIFE -
PUBLIC CHARTER SCHOOL
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DRAWING TITLE:
GROUND AND FIRST FLOOR PLAN – FIRE ALARM

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

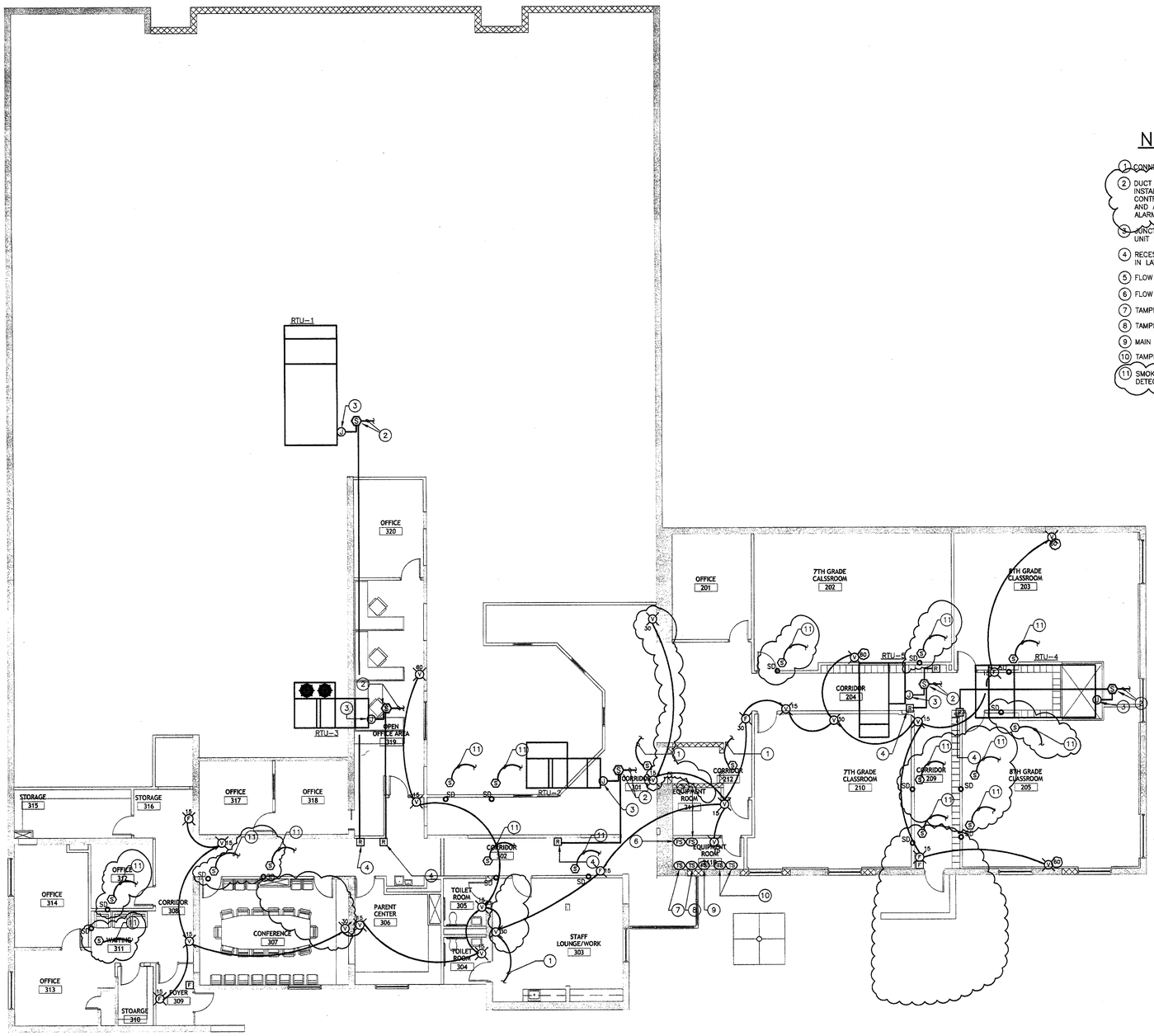
STAMP: DISTRICT OF COLUMBIA · No. PE8239 · REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: KML
DATE:
FOX PROJECT NO.:

DRAWING NUMBER
E6.0

CONSTRUCTION SET

PERMIT/PRICING SET - NOT FOR CONSTRUCTION



NOTES

1. CONNECT TO FIRE ALARM SYSTEM. TYPICAL.
2. DUCT SMOKE DETECTOR PROVIDED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE COMPONENTS AS REQUIRED FOR POWER AND ANNUNCIATION OF NEW DEVICE ON NEW BUILDING FIRE ALARM SYSTEM.
3. JUNCTION BOX FOR CONNECTION TO SHUT DOWN MECHANICAL UNIT FROM BUILDING FIRE ALARM SYSTEM.
4. RECESSED REMOTE L.E.D. FOR DUCT SMOKE DETECTOR, RECESS IN LAY-IN CEILING.
5. FLOW SWITCH FOR ZONE 1.
6. FLOW SWITCH FOR ZONE 2.
7. TAMPER SWITCH FOR ZONE 1 BUTTERFLY VALVE.
8. TAMPER SWITCH FOR ZONE 2 BUTTERFLY VALVE.
9. MAIN FLOW SWITCH.
10. TAMPER SWITCH FOR DOUBLE CHECK ASSEMBLY VALVE.
11. SMOKE DETECTORS FOR SMOKE DAMPERS. CONNECT SMOKE DETECTORS INTO BASE BUILDING FIRE ALARM SYSTEM.

SECOND FLOOR AND MEZZANINE LEVEL PLAN – FIRE ALARM

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

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PROJECT:

TREE OF LIFE - PUBLIC CHARTER SCHOOL

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DRAWING TITLE:

SECOND FLOOR AND MEZZANINE LEVEL PLAN – FIRE ALARM

ISSUED:

PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

STAMP:

DISTRICT OF COLUMBIA · REGISTERED · No. PE8239 · PROFESSIONAL ENGINEER

DRAWN BY: KML
DATE:
FOX PROJECT NO.:

DRAWING NUMBER
E6.1

CONSTRUCTION SET

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

PANEL SCHEDULE

PANEL I.D.: LVA
LOCATION: FIRST FLOOR ELECTRICAL ROOM
MOUNTING: SURFACE
NEUTRAL: SOLID
VOLTAGE: 120/208V
SERVICE: 3 PHASE, 4 WIRE
MAINS: 225A BREAKER
PANEL & BREAKER RMS SYM AMPS: 10,000

LOAD DESCRIPTION	KVA	WIRE SIZE	COND SIZE	AMP/ POLE	CIR. NO.	A–B–C	CIR. NO.	AMP/ POLE	COND SIZE	WIRE SIZE	KVA	LOAD DESCRIPTION
PANEL LVD	0.2	2	1.25	100/3	01	*-----	02	20/1	1/2	12	0.6	RECEPTACLES
---	---	---	---	---	03	---*--	04	20/1	1/2	12	0.8	RECEPTACLES
---	---	---	---	---	05	-----*	06	20/1	1/2	12	0.2	RECEPTACLES
RECEPTACLES	0.4	12	1/2	20/1	07	*-----	08	20/1	1/2	12	0.2	RECEPTACLES
RECEPTACLE	1.0	12	1/2	20/1	09	---*--	10	20/1	1/2	12	0.6	RECEPTACLES
RECEPTACLE	1.0	12	1/2	20/1	11	-----*	12	20/1	1/2	12	0.8	RECEPTACLES
IGNITOR	0.2	12	1/2	20/1	13	*-----	14	20/1	1/2	12	1.4	RECEPTACLES
RECEPTACLES	0.4	12	1/2	20/1	15	---*--	16	20/1	1/2	12	0.4	RECEPTACLES
RECEPTACLE	0.4	12	1/2	20/1	17	-----*	18	20/1	1/2	12	1.8	RECEPTACLES
RECEPTACLE	0.4	12	1/2	20/1	19	*-----	20	20/1	1/2	12	1.1	REFRIGERATOR
FIRE ALARM	1.0	12	1/2	20/1	21	---*--	22	20/2	1/2	12	1.1	PLATFORM LIFT
RECEPTACLES	1.0	12	1/2	20/1	23	-----*	24	---	---	---	---	---
RECEPTACLES	0.6	10	1/2	20/1	25	*-----	26	20/1	1/2	12	0.2	RECEPTACLE
RECEPTACLES	0.4	12	1/2	20/1	27	---*--	28	20/1	1/2	12	1.2	RECEPTACLES
DISPOSAL	0.9	12	1/2	20/1	29	-----*	30	20/1	1/2	12	0.8	RECEPTACLES
EWH-2	4.0	10	3/4	20/3	31	*-----	32	20/1	1/2	12	1.6	RECEPTACLES
---	---	---	---	---	33	---*--	34	20/1	1/2	12	1.2	RECEPTACLES
---	---	---	---	---	35	-----*	36	20/1	1/2	12	0.8	RECEPTACLES
RECEPTACLES	1.6	12	1/2	20/1	37	*-----	38	20/1	1/2	12	1.2	RECEPTACLES
HEATING CABINET	1.8	12	1/2	20/2	39	---*--	40	20/2	1/2	12	1.8	HEATING CABINET
---	---	---	---	---	41	-----*	42	---	---	---	---	---

TOTAL CONNECTED KVA: 33.1
TOTAL CONNECTED KVA PANELS LVA, LVB, AND LVC: 84.0
TOTAL DEMAND KVA PANELS LVA, LVB, AND LVC: 51.9

NOTES: WITH FEED THRU LUGS TO PANEL LVB

PANEL SCHEDULE

PANEL I.D.: LVB
LOCATION: MAIN ELECTRICAL ROOM
MOUNTING: SURFACE
NEUTRAL: SOLID
VOLTAGE: 120/208V
SERVICE: 3 PHASE, 4 WIRE
MAINS: 225A MLO
PANEL & BREAKER RMS SYM AMPS: 10,000

LOAD DESCRIPTION	KVA	WIRE SIZE	COND SIZE	AMP/ POLE	CIR. NO.	A–B–C	CIR. NO.	AMP/ POLE	COND SIZE	WIRE SIZE	KVA	LOAD DESCRIPTION
RECEPTACLES	0.8	12	1/2	20/1	01	*-----	02	20/1	1/2	12	1.6	RECEPTACLES
RECEPTACLES	0.8	12	1/2	20/1	03	---*--	04	20/1	1/2	12	1.2	RECEPTACLES
RECEPTACLES	0.8	12	1/2	20/1	05	-----*	06	20/1	1/2	12	1.6	RECEPTACLES
RECEPTACLES	0.7	12	1/2	20/1	07	*-----	08	20/1	1/2	12	1.2	RECEPTACLES
RECEPTACLES	0.8	12	1/2	20/1	09	---*--	10	20/1	1/2	12	1.2	RECEPTACLES
RECEPTACLES	0.8	12	1/2	20/1	11	-----*	12	20/1	1/2	12	1.6	RECEPTACLES
RECEPTACLES	1.6	12	1/2	20/1	13	*-----	14	20/1	1/2	12	1.2	RECEPTACLES
RECEPTACLES	0.2	12	1/2	20/1	15	---*--	16	20/1	1/2	12	1.6	RECEPTACLES
RECEPTACLES	0.8	12	1/2	20/1	17	-----*	18	20/1	1/2	12	1.2	RECEPTACLES
RECEPTACLES	0.6	12	1/2	20/1	19	*-----	20	20/1	1/2	12	1.6	RECEPTACLES
RECEPTACLES	1.6	12	1/2	20/1	21	---*--	22	20/1	1/2	12	1.2	RECEPTACLES
RECEPTACLES	1.2	12	1/2	20/1	23	-----*	24	20/1	1/2	12	1.6	RECEPTACLES
RECEPTACLES	1.2	12	1/2	20/1	25	*-----	26	20/1	1/2	12	1.2	RECEPTACLES
RECEPTACLES	1.6	12	1/2	20/1	27	---*--	28	20/1	1/2	12	1.2	RECEPTACLES
RECEPTACLES	1.2	12	1/2	20/1	29	-----*	30	20/1	1/2	12	1.8	RECEPTACLES
RECEPTACLES	1.6	12	1/2	20/1	31	*-----	32	20/1	1/2	12	1.2	RECEPTACLES
RECEPTACLES	1.2	12	1/2	20/1	33	---*--	34	20/1	1/2	12	0.8	RECEPTACLES
RECEPTACLES	1.6	12	1/2	20/1	35	-----*	36	20/1	1/2	12	1.2	RECEPTACLES
RECEPTACLES	1.2	12	1/2	20/1	37	*-----	38	20/1	1/2	12	1.6	RECEPTACLES
RECEPTACLES	1.2	12	1/2	20/1	39	---*--	40	20/1	1/2	12	1.2	RECEPTACLES
EWC	1.0	12	1/2	20/1	41	-----*	42	20/1	1/2	12	1.6	RECEPTACLES

TOTAL CONNECTED KVA: 50.9

NOTES:

PANEL SCHEDULE

PANEL I.D.: LVC
LOCATION: FIRST FLOOR SERVER ROOM
MOUNTING: SURFACE
NEUTRAL: SOLID
VOLTAGE: 120/208V
SERVICE: 3 PHASE, 4 WIRE
MAINS: 100A MLO
PANEL & BREAKER RMS SYM AMPS: 10,000

LOAD DESCRIPTION	KVA	WIRE SIZE	COND SIZE	AMP/ POLE	CIR. NO.	A–B–C	CIR. NO.	AMP/ POLE	COND SIZE	WIRE SIZE	KVA	LOAD DESCRIPTION
RECEPTS.	1.8	12	1/2	20/1	01	*-----	02	20/1	1/2	12	1.6	RECEPTS.
RECEPTS.	1.8	12	1/2	20/1	03	---*--	04	20/1	1/2	12	0.8	RECEPTS.
RECEPTS.	1.0	12	1/2	20/1	05	-----*	06	20/1	1/2	12	1.2	RECEPTS.
RECEPTS.	1.8	12	1/2	20/1	07	*-----	08	20/1	1/2	12	0.8	RECEPTS.
RECEPTS.	0.8	12	1/2	20/1	09	---*--	10	20/1	1/2	12	1.2	RECEPTS.
RECEPTS.	1.2	12	1/2	20/1	11	-----*	12	20/1	1/2	12	0.4	RECEPTS.
RECEPTS.	1.8	12	1/2	20/1	13	*-----	14	20/1	1/2	12	1.2	RECEPTS.
RECEPTS.	0.8	12	1/2	20/1	15	---*--	16	20/1	1/2	12	1.2	RECEPTS.
RECEPTS.	0.8	12	1/2	20/1	17	-----*	18	20/1	1/2	12	1.2	RECEPTS.
RECEPTS.	1.2	12	1/2	20/1	19	*-----	20	20/1	1/2	12	1.2	RECEPTS.
RECEPTS.	1.8	12	1/2	20/1	21	---*--	22	20/1	---	---	---	SPARE
RECEPTS.	0.4	12	1/2	20/1	23	-----*	24	20/1	---	---	---	SPARE
RECEPTS.	1.0	12	1/2	20/1	25	*-----	26	20/1	1/2	12	0.2	RECEPTS.
DISPOSAL	0.9	12	1/2	20/1	27	---*--	28	20/1	1/2	12	0.2	RECEPTS.
RECEPTS.	0.8	12	1/2	20/1	29	-----*	30	20/1	---	---	---	SPARE
RECEPTS.	1.0	12	1/2	20/1	31	*-----	32	---	---	---	---	PFF
RECEPTS.	0.4	12	1/2	20/1	33	---*--	34	---	---	---	---	PFF
PFF	---	---	---	---	35	-----*	36	20/1	1/2	12	1.2	COPIER
PFF	---	---	---	---	37	*-----	38	20/1	1/2	12	1.2	RECEPTS.
PFF	---	---	---	---	39	---*--	40	20/1	1/2	12	1.5	EF-1/EF-4/EF-5
PFF	---	---	---	---	41	-----*	42	---	---	---	---	PFF

TOTAL CONNECTED KVA: 33.6
TOTAL DEMAND KVA: 23.4

NOTES:

PANEL SCHEDULE

PANEL I.D.: LVD
LOCATION: FIRST FLOOR SERVER ROOM
MOUNTING: SURFACE
NEUTRAL: SOLID
VOLTAGE: 120/208V
SERVICE: 3 PHASE, 4 WIRE
MAINS: 100A BREAKER
PANEL & BREAKER RMS SYM AMPS: 10,000

LOAD DESCRIPTION	KVA	WIRE SIZE	COND SIZE	AMP/ POLE	CIR. NO.	A–B–C	CIR. NO.	AMP/ POLE	COND SIZE	WIRE SIZE	KVA	LOAD DESCRIPTION
EF-6	0.2	12	1/2	20/1	01	*-----	02	20/1	---	---	---	SPARE
SPARE	---	---	---	20/1	03	---*--	04	20/1	---	---	---	SPARE
SPARE	---	---	---	20/1	05	-----*	06	20/1	---	---	---	SPARE
SPARE	---	---	---	20/1	07	*-----	08	20/1	---	---	---	SPARE
SPARE	---	---	---	20/1	09	---*--	10	20/1	---	---	---	SPARE
SPARE	---	---	---	20/1	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
SPARE	---	---	---	20/1	21	---*--	22	20/1	---	---	---	SPARE
SPARE	---	---	---	20/1	23	-----*	24	20/1	---	---	---	SPARE
PFF	---	---	---	---	25	*-----	26	---	---	---	---	PFF
PFF	---	---	---	---	27	---*--	28	---	---	---	---	PFF
PFF	---	---	---	---	29	-----*	30	---	---	---	---	PFF
PFF	---	---	---	---	31	*-----	32	---	---	---	---	PFF
PFF	---	---	---	---	33	---*--	34	---	---	---	---	PFF
PFF	---	---	---	---	35	-----*	36	---	---	---	---	PFF
PFF	---	---	---	---	37	*-----	38	---	---	---	---	PFF
PFF	---	---	---	---	39	---*--	40	---	---	---	---	PFF
PFF	---	---	---	---	41	-----*	42	---	---	---	---	PFF

TOTAL CONNECTED KVA: 0.2

NOTES:

PANEL SCHEDULE

PANEL I.D.: MDP
LOCATION: MAIN ELECTRICAL ROOM
MOUNTING: SURFACE
NEUTRAL: SOLID
VOLTAGE:
SERVICE:
MAINS:
PANEL & BREAKER RI

LOAD DESCRIPTION	KVA	WIRE SIZE	COND SIZE	AMP/ POLE	CIR. NO.	A–B–C	CIR. NO.	AMP/ POLE	COND SIZE	WIRE SIZE	KVA	LOAD DESCRIPTION
RTU-1	87.9	1/0	2	150/3	01	*-----	02	150/3	2	1/0	76.2	
---	---	---	---	---	03	---*--	04	---	---	---	---	
---	---	---	---	---	05	-----*	06	---	---	---	---	
RTU-2	24.9	6	1	60/3	07	*-----	08	60/3	1	6	31.8	RT
---	---	---	---	---	09	---*--	10	---	---	---	---	
---	---	---	---	---	11	-----*	12	---	---	---	---	
RTU-3	13.9	6	1	60/3	13	*-----	14	125/3	1.25	2	75.0	TRANSFORMER
---	---	---	---	---	15	---*--	16	---	---	---	---	
---	---	---	---	---	17	-----*	18	---	---	---	---	
PANEL HVA	81.6	1/0	2	150/3	19	*-----	20	400/3	3/5	500	259.7	PANEL HVB
---	---	---	---	---	21	---*--	22	---	---	---	---	
---	---	---	---	---	23	-----*	24	---	---	---	---	
ACCU-1	15.8	10	3/4	30/3	25	*-----	26	50/3	2	3/0	30.0	TRANSFORMER
---	---	---	---	---	27	---*--	28	---	---	---	---	
---	---	---	---	---	29	-----*	30	---	---	---	---	
ACCU-1	10.0	10	3/4	20/3	31	*-----	32	---	---	---	---	PFF
---	---	---	---	---	33	---*--	34	---	---	---	---	PFF
---	---	---	---	---	35	-----*	36	---	---	---	---	PFF
PFF	---	---	---	---	37	*-----	38	---	---	---	---	PFF
PFF	---	---	---	---	39	---*--	40	---	---	---	---	PFF
PFF	---	---	---	---	41	-----*	42	---	---	---	---	PFF

TOTAL CONNECTED KVA: 706.8

NOTES: SIEMENS
SERVICE ENTRANCE LABELED
◆ KA FRAME ◆◆ LA FRAME

819A

PANEL SCHEDULE

PANEL I.D.: HVA
LOCATION: FIRST FLOOR ELECTRICAL ROOM
MOUNTING: SURFACE
NEUTRAL: SOLID
VOLTAGE: 277/480V
SERVICE: 3 PHASE, 4 WIRE
MAINS: 150A MLO
PANEL & BREAKER RMS SYM AMPS: 14,000

LOAD DESCRIPTION	KVA	WIRE SIZE	COND SIZE	AMP/ POLE	CIR. NO.	A–B–C	CIR. NO.	AMP/ POLE	COND SIZE	WIRE SIZE	KVA	LOAD DESCRIPTION
LIGHTS	1.6	12	1/2	20/1	01	*-----	02	20/1	1/2	12	1.5	LIGHTS
LIGHTS	1.3	12	1/2	20/1	03	---*--	04	20/1	1/2	12	1.8	LIGHTS
LIGHTS	1.7	12	1/2	20/1	05	-----*	06	20/1	1/2	12	1.0	LIGHTS
LIGHTS	1.5	12	1/2	20/1	07	*-----	08	20/1	1/2	12	1.2	LIGHTS
LIGHTS	1.5	12	1/2	20/1	09	---*--	10	20/1	1/2	12	0.6	LIGHTS
LIGHTS	1.4	12	1/2	20/1	11	-----*	12	20/1	1/2	12	1.2	LIGHTS
LIGHTS	1.7	12	1/2	20/1	13	*-----	14	20/1	1/2	12	1.5	LIGHTS
LIGHTS	1.0	12	1/2	20/1	15	---*--	16	20/1	1/2	12	1.6	LIGHTS
LIGHTS	1.5	12	1/2	20/1	17	-----*	18	20/1	1/2	12	1.0	LIGHTS
LIGHTS	1.2	12	1/2	20/1	19	*-----	20	20/1	1/2	12	1.0	LIGHTS
LIGHTS	1.0	12	1/2	20/1	21	---*--	22	20/1	1/2	12	1.6	LIGHTS
LIGHTS	1.3	12	1/2	20/1	23	-----*	24	---	---	---	---	PFF
LIGHTS	1.8	12	1/2	20/1	25	*-----	26	---	---	---	---	PFF
LIGHTS	1.2	12	1/2	20/1	27	---*--	28	---	---	---	---	PFF
LIGHTS	1.6	12	1/2	20/1	29	-----*	30	---	---	---	---	PFF
LIGHTS	1.6	12	1/2	20/1	31	*-----	32	50/3	1	8	30.2	VAV BOXES
LIGHTS	0.4	12	1/2	20/1	33	---*--	34	---	---	---	---	---
LIGHTS	1.0	12	1/2	20/1	35	-----*	36	---	---	---	---	---
LIGHTS	2.1	8	3/4	20/1	37	*-----	38	20/1	1/2	12	0.2	EF-2
LIGHTING	0.2	12	1/2	20/1	39	---*--	40	20/1	1/2	12	3.0	UH-9
UH-10	3.0	12	1/2	20/1	41	-----*	42	30/1	3/4	10	5.0	UH-3/UH-4

TOTAL CONNECTED KVA: 81.6

NOTES:

PANEL SCHEDULE

PANEL I.D.: HVB
LOCATION: FIRST FLOOR ELECTRICAL ROOM
MOUNTING: SURFACE
NEUTRAL: SOLID
VOLTAGE: 277/480V
SERVICE: 3 PHASE, 4 WIRE
MAINS: 400A MLO
PANEL & BREAKER RMS SYM AMPS: 14,000

LOAD DESCRIPTION	KVA	WIRE SIZE	COND SIZE	AMP/ POLE	CIR. NO.	A–B–C	CIR. NO.	AMP/ POLE	COND SIZE	WIRE SIZE	KVA	LOAD DESCRIPTION
VAV BOXES	21.3	8	1	40/3	01	*-----	02	50/3	1	6	21.5	VAV BOXES
---	---	---	---	---	03	---*--	04	---	---	---	---	---
---	---	---	---	---	05	-----*	06	---	---	---	---	---
VAV BOXES	21.0	8	1	40/3	07	*-----	08	20/1	1/2	12	3.0	UH-6
---	---	---	---	---	09	---*--	10	20/3	1/2	12	4.5	EWH-1
---	---	---	---	---	11	-----*	12	---	---	---	---	---
VAV BOXES	16.6	10	3/4	30/3	13	*-----	14	---	---	---	---	---
---	---	---	---	---	15	---*--	16	20/3	1/2	12	12.0	EWH-3
---	---	---	---	---	17	-----*	18	---	---	---	---	---
VAV BOXES	14.6	10	3/4	30/3	19	*-----	20	---	---	---	---	---
---	---	---	---	---	21	---*--	22	50/3	1	8	14.8	VAV BOXES
---	---	---	---	---	23	-----*	24	---	---	---	---	---
VAV BOXES	27.3	8	1	50/3	25	*-----	26	---	---	---	---	---
---	---	---	---	---	27	---*--	28	60/3	1	8	35.2	VAV BOXES
---	---	---	---	---	29	-----*	30	---	---	---	---	---
AC-1	34.8	6	1	60/3	31	*-----	32	---	---	---	---	---
---	---	---	---	---	33	---*--	34	20/1	1/2	12	3.0	UH-5
---	---	---	---	---	35	-----*	36	20/1	1/2	12	3.0	UH-5
AC-2	19.1	12	1/2	30/3	37	*-----	38	---	---	---	---	PFF
---	---	---	---	---	39	---*--	40	20/1	1/2	12	4.0	UH-8
---	---	---	---	---	41	-----*	42	20/1	1/2	12	4.0	UH-1/UH-2

TOTAL CONNECTED KVA: 259.7

NOTES:

TRANSFORMER SCHEDULE

TRANSFORMER No.	SIZE KVA	PHASE	PRIMARY VOLTS	WIRING – PRIMARY OCPD	FEEDER	GND.	CONDUIT	SECONDARY VOLTS	WIRING – SECONDARY OCPD	FEEDER	GND.	CONDUIT	TYPE MOUNTED
T-1	75	3	480	125	3#2	8	1–1/4"	120/208	225	4#4/0	2**	2–1/2"	FLOOR
T-2	30	3	480	50	3#8	10	3/4"	120/208	100	4#2	6**	1–1/2"	FLOOR

** GROUND TO BUILDING STEEL, OR BUILDING GROUNDING SYSTEM AS AS PER ARTICLE 250 OF THE NEC.

DEMAND LOAD CALCULATIONS CALCULATIONS FOR 75 KVA TRANSFORMER

LOAD PER RECEPTACLE = 180 VA.

TOTAL CONNECTED RECEPTACLE LOAD = 74.1 KVA
RECEPTACLES – NEC ARTICLE 220–13
74.1 KVA – 10 KVA = 64.1 KVA
64.1 KVA x 0.5 = 32.0 KVA
32.0 KVA + 10 KVA = 42.0 KVA

MISC. EQUIPMENT @ 100% = 9.9 KVA

TOTAL DEMAND LOAD: 42.0 KVA
+ 9.9 KVA
51.9 KVA

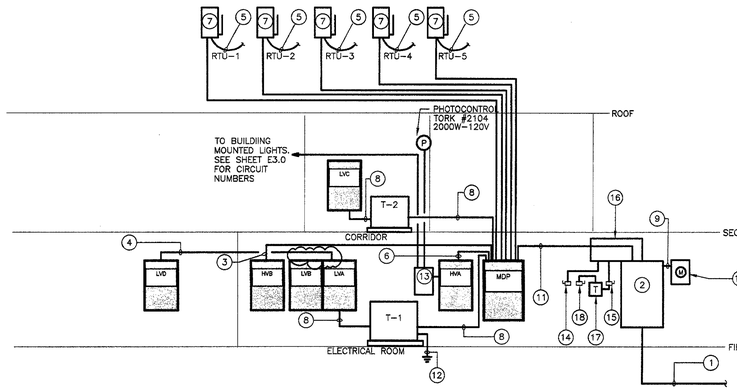
DEMAND LOAD CALCULATIONS CALCULATIONS FOR 30 KVA TRANSFORMER

LOAD PER RECEPTACLE = 180 VA.

TOTAL CONNECTED RECEPTACLE LOAD = 29.6 KVA
RECEPTACLES – NEC ARTICLE 220–13
29.6 KVA – 10 KVA = 19.6 KVA
19.6 KVA x 0.5 = 9.8 KVA
9.8 KVA + 10 KVA = 19.8 KVA

MISC. EQUIPMENT @ 100% = 3.6 KVA

TOTAL DEMAND LOAD: 19.8 KVA
+ 3.6 KVA
23.4 KVA



POWER RISER DIAGRAM

SCALE: NO SCALE

NOTES

1. TO UTILITY TRANSFORMER. SEE SITE PLAN.
2. 1000 AMP, 600V, 3ø, 4W. C/T CABINET WITH UTILITY COMPANY SEALS.
3. PROVIDE (4) #500 KCMIL, (1) #2 GROUND IN 3.5" CONDUIT.
4. PROVIDE (4) #2, (1) #8 GROUND IN 1.25" CONDUIT.
5. SEE PANEL SCHEDULE FOR SIZES.
6. PROVIDE (4) #1/0, (1) #6 GROUND IN 2" CONDUIT.
7. SEE ROOF PLAN FOR SIZES.
8. SEE TRANSFORMER SCHEDULE FOR SIZES.
9. 1 1/4" EC FOR METERING CONDUCTORS.
10. UTILITY METER.
11. 4 SETS OF (4) #250KCMIL, (1) # 1/0 GROUND IN (4) 3" CONDUIT.
12. TO MAIN GROUNDING SYSTEM. SEE DETAIL ON SHEET E8.0.
13. LIGHTING CONTROL CENTER. SEE SHEET E8.0 FOR DETAIL.
14. 30A, 3P + S.N. 600V F.S.S. WITH 30A FUSE FOR EMERGENCY EXIT LIGHTING.
15. 30A, 3P + S.N. 600V F.S.S. WITH 20A FUSE FOR FIRE ALARM CONTROL PANEL.
16. 12"x12" WIREWAY WITH 3 SETS OF 4#300KCMIL + 1#2/0 G.
17. 3KVA 480V–120/208 3ø, 4W DRY TYPE ENCLOSED TRANSFORMER.
18. 30A, 3P + S.N. 240V F.S.S. WITH 20A FUSES FOR FIRE ALARM CONTROL PANEL.

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PROJECT:
TREE OF LIFE - PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

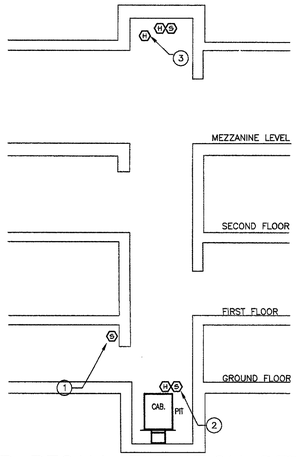
DRAWING TITLE:
PANEL SCHEDULES AND RISER DIAGRAM

ISSUED:	
PERMIT/PRICING SET	02 FEBRUARY 2005
ADDENDUM No.1	17 FEBRUARY 2005
CONSTRUCTION SET	18 APRIL 2005

STAMP: DISTRICT OF COLUMBIA · RICHARD T. FOSTER · No. PE8239 · REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: KML
DATE:
FOX PROJECT NO.:

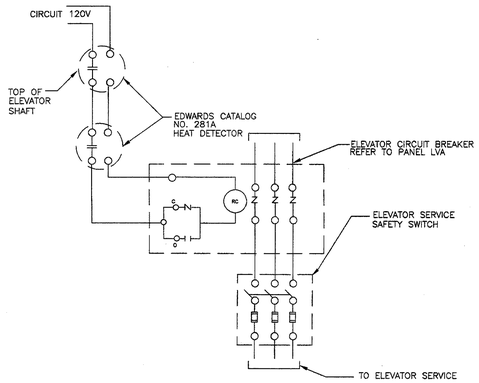
DRAWING NUMBER
E7.0



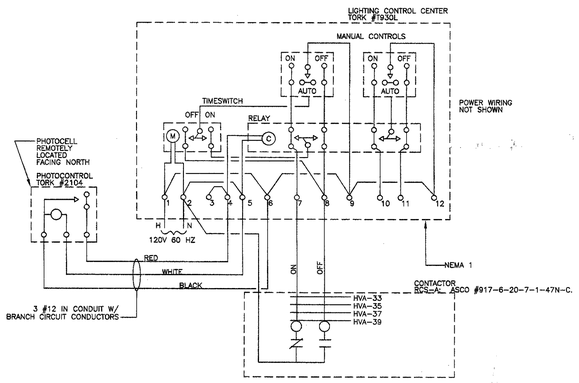
ELEVATOR RECALL ELEVATION DETAIL
NOT TO SCALE

NOTES

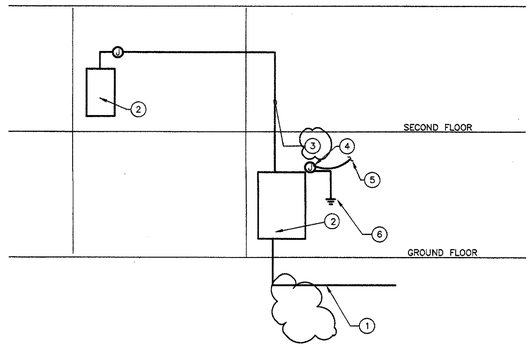
1. LOBBY SMOKE DETECTORS REQUIRED AT ALL LEVELS. LOBBY AND EQUIPMENT ROOM DETECTORS TO INITIATE PHASE I RECALL.
2. PIT HEAT DETECTOR TO INITIATE FIRE ALARM AND SHUNT TRIP ELEVATOR POWER. LOCATE HEAT DETECTOR ADJACENT TO SPRINKLER HEAD.
3. 200 DEGREE HEAT DETECTOR. ALL HEAT DETECTORS TO AUTOMATICALLY DISCONNECT POWER TO ELEVATOR PRIOR TO THE APPLICATION OF WATER. LOCATE ADJACENT TO SPRINKLER HEAD.



ELEVATOR FIRE SERVICE DISCONNECT WIRING DIAGRAM
NOT TO SCALE



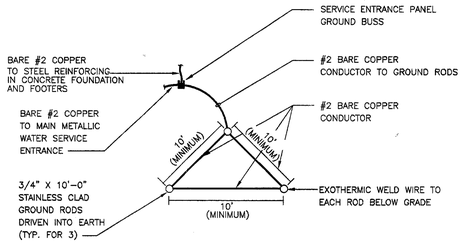
PHOTOCELL/TIMECLOCK LIGHTING CONTROL
NOT TO SCALE



TELEPHONE RISER DIAGRAM
NOT TO SCALE

NOTES

1. TELEPHONE SERVICE CONDUITS. 1–4" EMPTY CONDUITS. SEE SITE PLAN FOR CONTINUATION.
2. 4' x 8' x 3/4" THICK FIRE TREATED PLYWOOD FOR TELEPHONE BACKBOARD.
3. 1–4" EMPTY CONDUITS FOR TELEPHONE SERVICE.
4. JUNCTION BOX FOR TELEPHONE GROUND, TYPICAL.
5. 1/2" CONDUIT WITH 1#10 GROUND TO COLD WATER LINE.
6. #10 GROUND AS REQUIRED BY TELEPHONE UTILITY.



NOTE:
PROVIDE ADDITIONAL GROUND RODS AS REQUIRED TO ACHIEVE 25 OHMS OR LESS RESISTANCE.

MAIN GROUNDING SYSTEM
NOT TO SCALE

ANNUNCIATOR SYMBOLS
- GREEN LED
- AMBER LED
- RED LED
- MAIN FIRE SERVICE LINE TAMPER
- PUSH BUTTON
- KEYED SWITCH
- MANUAL STATION
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- HEAT DETECTOR
- SPRINKLER FLOW SWITCH
- ELEVATOR LOBBY SMOKE DETECTOR/ ELEVATOR PIT SMOKE DETECTOR
- STANDPIPE TAMPER SWITCH
- SPRINKLER TAMPER SWITCH
- GROUND FLOOR – ZONE 1
- FIRST FLOOR – ZONE 2
- SECOND FLOOR – ZONE 3
- MEZZANINE FLOOR – ZONE 4
- SYSTEMS TROUBLE
- TROUBLE SILENCE
- TROUBLE BUZZER
- LAMP TEST
- RESET SWITCH

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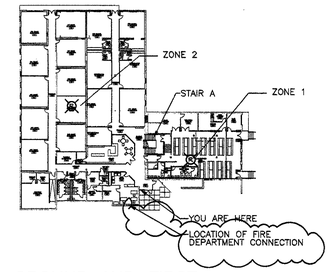
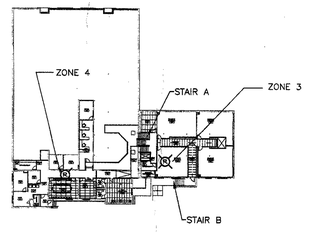
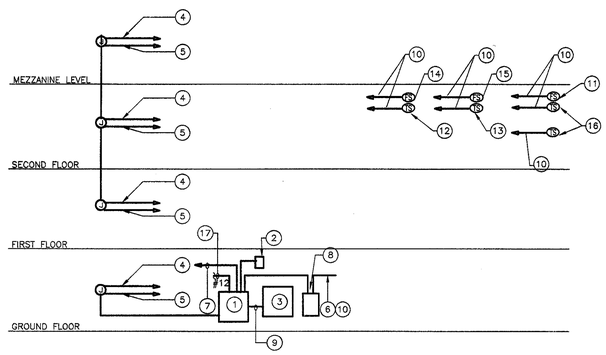


GROUND AND FIRST FLOOR PLAN



SECOND FLOOR AND MEZZANINE LEVEL PLAN

FIRE ALARM ANNUNCIATOR PANEL
NOT TO SCALE



FIRE ALARM RISER DIAGRAM
NOT TO SCALE

FIRE ALARM RISER NOTES

1. FIRE ALARM CONTROL PANEL WITH BATTERY BACKUP.
2. DIALER WITH TIE IN TO CENTRAL MONITORING SYSTEM TO BE DETERMINED BY OWNER.
3. FIRE ALARM ANNUNCIATOR PANEL. SEE DETAIL THIS SHEET.
4. TO INITIATING DEVICES. SEE FLOOR PLANS FOR LOCATION OF DEVICES.
5. TO INDICATING DEVICES. SEE FLOOR PLANS FOR LOCATION OF DEVICES.
6. TO HEAT DETECTOR AND SMOKE DETECTOR IN ELEVATOR MACHINE ROOM.
7. CONNECT FIRE ALARM PULL STATIONS AND SMOKE DETECTORS. SEE FLOOR PLANS FOR LOCATION OF DEVICES.
8. CONNECTION TO ELEVATOR RECALL.
9. CONDUIT AND CONDUCTORS AS REQUIRED BY SYSTEM MANUFACTURER, TYPICAL.
10. TO FIRE ALARM CONTROL PANEL.
11. FLOW SWITCH FOR MAIN WATER SUPPLY.
12. TAMPER SWITCH ON BUTTERLY VALVE ZONE 1.
13. TAMPER SWITCH ON BUTTERLY VALVE ZONE 2.
14. FLOW SWITCH FOR ZONE 1.
15. FLOW SWITCH FOR ZONE 2.
16. TAMPER SWITCH FOR DOUBLE CHECK ASSEMBLY VALVE.
17. TO PANEL LVA.

DISTRICT OF COLUMBIA
RICHARD P. SUDIK
No. PE8239
REGISTERED PROFESSIONAL ENGINEER
MAY 06 '05

CONSTRUCTION SET

PERMIT/PRICING SET - NOT FOR CONSTRUCTION

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PROJECT:
TREE OF LIFE - PUBLIC CHARTER SCHOOL
2315 18TH PLACE NE.
WASHINGTON DC. 20018

DRAWING TITLE:
DETAILS

ISSUED:	
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FOX PROJECT NO.:

DRAWING NUMBER
E8.0