Davey Lopes Recreation Center

CONSTRUCTION DOCUMENTS APRIL 18, 2025

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TELECOMMUNICATIONS

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Security Legend and Notes Sheet Security Basement Plan Security First Floor Plan Security Second Floor Plan Telecom Details Sheet

AUDIO/VISUAL

Audio/Visual Legend and Notes Sheet AV101 Audio/Visual First Floor Plan Audio/Visual Details Sheet AV201 Audio/Visual Details Sheet Audio/Visual Details Sheet AV203 Audio/Visual Details Sheet Audio/Visual Details Sheet Audio/Visual Details Sheet



PROJECT DESCRIPTION:

The Project consists of the renovation of an existing one-story, 15,100 sf. community recreation center building with a basketball gymnasium, a former indoor pool and associated support spaces. The Project includes renovation of the existing masonry building including roof replacement and repairs; select window and louver replacement; reconfiguration and finishes replacement of locker rooms; new engineered systems for MEP/FP. The former pool is converted to a multi-purpose room. Associated spaces include locker rooms and changing areas, staff offices, a computer lab, and kitchenette.

bh+a

Boston, MA 02210 (617) 350 0450

PROJECT NAME Davey Lopes

Recreation Center 227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

CDW Consultants Inc. 4 California Street Ste. 30° Framingham, MA 01701 508-875-2657

3102 East Main Road Portsmouth, RI 02871 401-683-6630

> Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300 MEP/FP Engineer Allied Consulting Engineering Services

270 Littleton Road, Ste. 1 978-443-7888

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Cover Sheet

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1 INCH = 10 FT.

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4. THE LOCATIONS OF THE TRANSFORMER, BOLLARDS, GENERATOR PAD, AND NEW UNDERGROUND UTILITIES, INCLUDING CONCRETE PAD

SIZES ARE BASED ON A PLAN PROVIDED BY ALLIED CONSULTING ENGINEERING SERVICES, INC.

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

Recreation Center

City of Providence

Boston, MA 02210

PROJECT NAME

227 Dudley Street

Providence, RI 02907

Providence, RI 02903

PROJECT TEAM

4 California Street Ste. 301

Narragansett Engineering, Inc.

3102 East Main Road Portsmouth, RI 02871

Structural Engineer

RSE Associates, Inc.

Watertown, MA 02472

MEP/FP Engineer

270 Littleton Road, Ste. 11

Westford, MA 01886

978-443-7888

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Civil Site

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Allied Consulting Engineering Services,

ERIC WILHELMSEN

REGISTERED

PROFESSIONAL ENGINEER

64 Pleasant Street

617-926-9300

Framingham, MA 01701

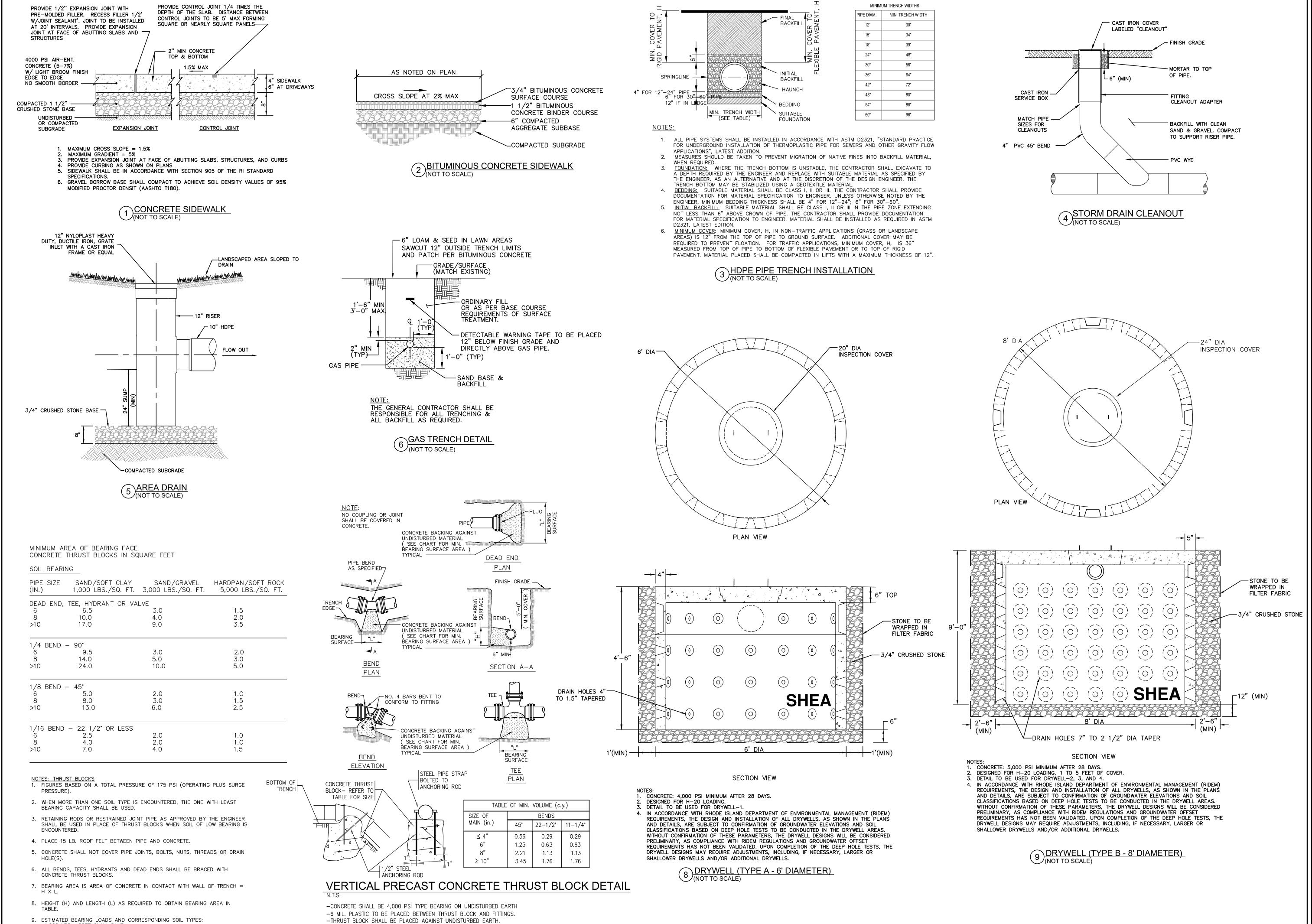
Civil Engineer

508-875-2657

401-683-6630

Davey Lopes

(617) 350 0450



TYPICAL THRUST BLOCK DETAILS

ノ(NOT TO SCALE)

1,000 LBS. SOFT CLAY, SAND

3,000 LBS. SAND AND GRAVEL, SAND AND GRAVEL WITH CLAY

5,000 LBS. SAND AND GRAVEL CEMENTED WITH CLAY, HARD PAN AND ROCK

Baramann Hendrie + Archetype, Inc.

9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center 227 Dudley Street

Providence, RI 02903

Providence, RI 02907

City of Providence 25 Dorrance Street

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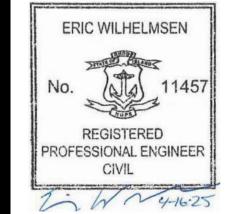
Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

401-683-6630 **Structural Engineer** RSE Associates, Inc. 64 Pleasant Street

Watertown, MA 02472 617-926-9300 MEP/FP Engineer Allied Consulting Engineering Services,

270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888



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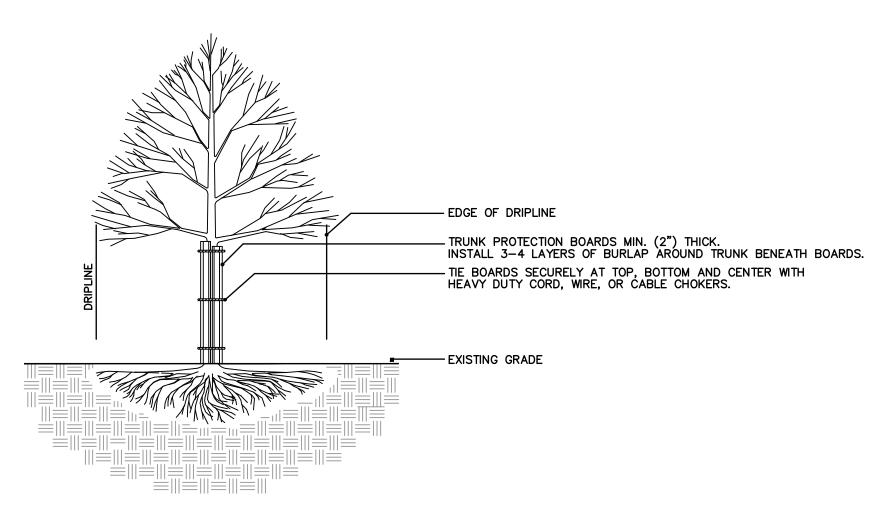
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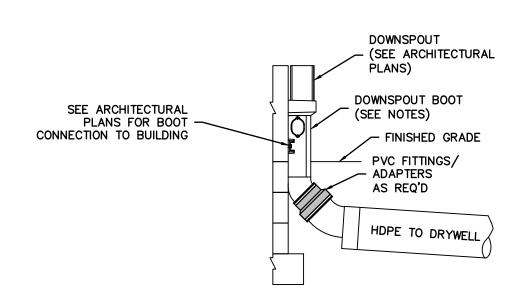
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2 TYPICAL TREE PROTECTION (NOT TO SCALE)



NOTES:

1. SEE ARCHITECTURAL PLANS FOR DOWNSPOUT AND BOOT CONNECTION TO THE BUILDING.

3 DOWNSPOUT BOOT CONNECTION TO DRAINAGE (NOT TO SCALE)

architect bh+a

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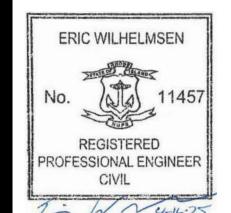
PROJECT TEAM

Civil Engineer CDW 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor
Narragansett Engineering, Inc.
3102 East Main Road
Portsmouth, RI 02871
401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer
Allied Consulting Engineering Services, Inc.
270 Littleton Road, Ste. 11
Westford, MA 01886
978-443-7888



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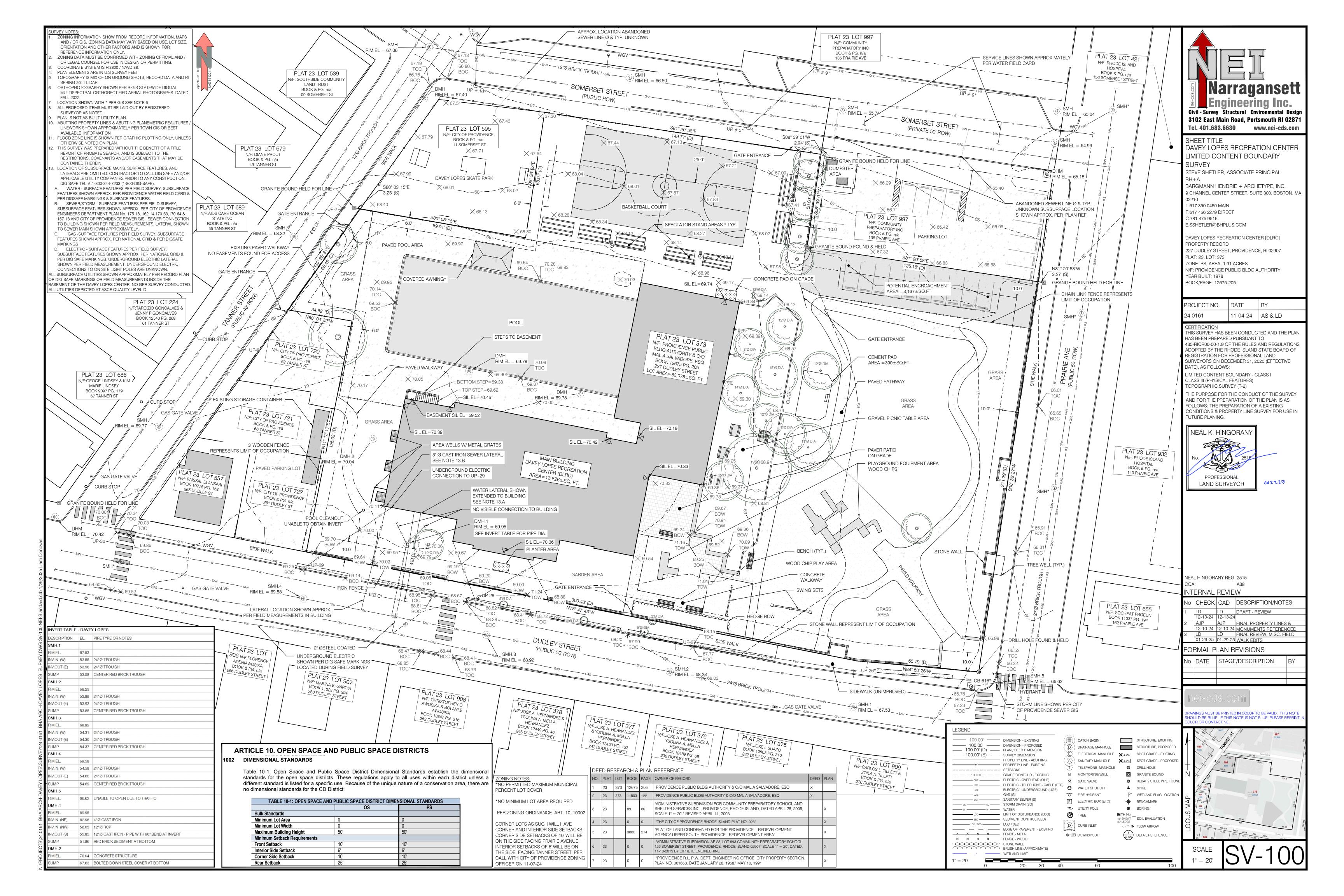
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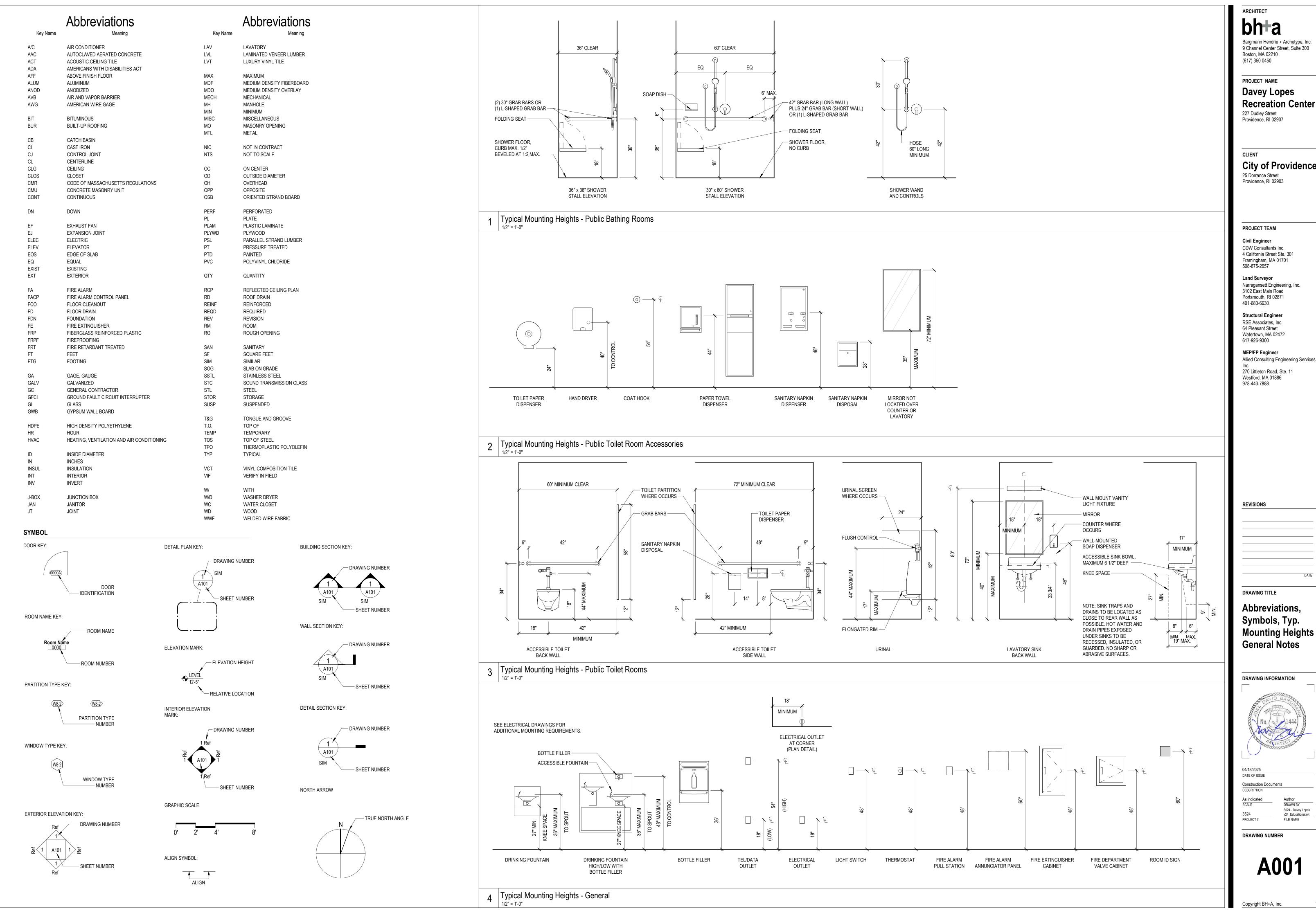
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City of Providence 25 Dorrance Street

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Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300

MEP/FP Engineer Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

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Abbreviations, Symbols, Typ. **Mounting Heights & General Notes**

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Code Summary: Code Summary: continued Rhode Island Construction Code(s): Chapter 8 Interior Finishes IBC - International Building Code - 2018 Table 803.11 - Interior Wall and Finish Ceiling Materials RISBC-1 Rhode Island Building Code Group Exit Enclosure and Passageway Corridors Accessibility ADA - Americans with Disabilities Act - 2010 Exception – Where a building is sprinkled in accordance with Section 903.3.1.1 or 903.3.1.2, Class II materials are permitted in any area Rhode Island Accessibility Code - 2009 where Class I materials are required, and materials complying with DOC FF-1 "pill test". IECC - International Energy Conservation Code - 2018 Fire Protection Systems Chapter 9 RISBC-8 Rhode Island Energy Conservation Code **Automatic Sprinkler Systems** 903 Article X - Energy Efficiency and Carbon Neutral Goals for Municipal Buildings 903.2 Where Required Group A-3 – An automatic sprinkler system shall be provided throughout stories containing A-3 occupancies and throughout all stories from 903.2.1.3 Mech. / Plumb. IMC – International Mechanical Code – 2018 Group A-3 occupany to and including the levels of exist discharge serving that occupancy where one of the following conditions exists: fire area 227 Dudley Street RISBC-4 Rhode Island Mechanical Code exceeds 12,000 square feet, has an occupant load of 300 or more, located on a floor other than a level of exit discharge serving such occupancies Providence, RI 02907 903.3.1.1 IPC - International Plumbing Code - 2018 RISBC-3 Rhode Island Plumbing Code Standpipe Systems 905.3.1 Height – Class III standpipe systems shall be installed throughout buildings where the floor level of the highest story is located more than 30 feet above NFPA 70 - (NEC National Electric Code) – 2020 Electrical the lowest level of fire department vehicle access. RISBC-5 Rhode Island Electrical Code Exception 1 – Class I standpipes are allowed in sprinkled buildings - 903.3.1.1. 905.4 <u>Location of Class I Standpipe Hose Connections</u> – Class I standpipe hose connections shall be provided in all of the following locations; Fire Protection NFPA 1 – National Fire Protection Association - 2018 1.In every required interior stairway on each floor located at the intermediate landing, unless approved by the fire code official. Rhode Island Fire Code 2.On each side of the wall adjacent to the exit opening of a horizontal exit – Fire Wall. Exception – Where the floor areas adjacent to the horizontal exit are reachable from an interior stairway hose connection by a 30-foot hose stream from a nozzle attached to 100-feet of hose, a hose connection shall not be required. **Use and Occupancy Classification** Chapter 3: 5. Where the roof has a slope less than 4/12, a hose connection shall be located to serve the roof or at the highest landing of an interior exit stairway Assembly Group A-3 (Gymnasium, Multi-Purpose Room) with access to the roof provided in accordance with Section 1011.12. 6. Where the most remote portion of a sprinklered floor is more than 200-feet from a hose connection, the fire code official is authorized to require that an additional hose connection be provided in approved locations. General Building Heights and Areas Portable Fire Extinguishers Chapter 5: Where Required- Portable fire extinguishers shall be provided in accordance with the Rhode Island Uniform Fire Code **Building Height and Number of Stories** Allowable Building Height in Feet Above Grade Plane - Table 504.3 and 504.4 Fire Alarm and Detection Systems Tabulated **Fire Department Connections** PROJECT TEAM **Carbon Monoxide Detectors** Use Group Construction Type 75' Automatic Sprinkler Required Chapter 10 Means of Egress **Building Area** (tabulated area + percentage of frontage increase) 506.1.3 <u>Basements</u> – Basements need not be included in the total allowable floor area of a building provide the Occupant Load total area of such basements does not exceed the area permitted for a one-story above grade plane building Table 1004.5 - Maximum Floor Area Allowance per Occupant Allowable Building Area - Table 506.2 Floor Area (sq ft) Floor Area per Occupant Occupant Load Use Group Construction Type Pool 4,545 50 gross 4,723 Baseline Pool Deck 15 gross Gallery 1,485 30 net 4,425 Gymnasium 50 gross 506.2.1 Single-Occupancy, One-Story Buildings - Equation 5-1 164 Pool Manager 50 gross Multipurpose Room 3.886 (Equation 5-1) $Aa = At + (NS \times If)$ 15 net Boys Changing $Aa = 38,000 + [9,500 \times 59\%]$ 50 gross Aa = 38,000 + 5,605 = 43,605 SF ALLOWED / 25,000 PROVIDED 522 Girls Changing 50 gross Family Changing 1 & 2 50 gross 506.3 Frontage Increase – A building must have more than 25 percent of its perimeter on a public way. Storage 300 gross The maximum increase allowed is 75 percent. Lounge 15 net 293 15 net If = 59%Computer Room Tele Health 180 15 net Chapter 6: Types of Construction Admin 209 150 gross Table 601 - Fire Resistance Rating Requirements for Building Elements - Type 3B Food 114 150 gross Primary Structural Frame Table 1006.2.1 - Spaces with 1 Exit or Exit Doorway Bearing Walls Exterior Occuancy Max. Occupant Load of Space Sprinkled (feet) Interior Non Bearing Exterior Table 602 1006.3 Floor and 2nd Members Egress from Stories or Occupied Room – Egress from any story or occupied roof shall be provided with the number of exits or access to exits based on Roof and 2nd Members the aggregate occupant load and the travel shall not pass through more than 1-adjacent story. 1006.3.2 Table 1006.3.2 - Min. Number of Exits Per Occupancy Load Table 602 - Fire Resistance Rating of Exterior Walls - Fire Separation Distance 501-1,000 occupants **Exit and Exit Access Doorway Configuration** Greater than 10' / less than 30' 1007 Where 2-exits doorways are required, the exit doors shall be placed a distance apart equal not less Greater than 30' 1007.1.1 than ½ of the length of the maximum overall diagonal dimension of the building area measured in a straight line between exit doors. Type III - Exterior walls are noncombustible and the interior are any material permitted by code. Fire-Retardant-Treated wood framing complying with Exceptions 2 - the diagonal distance shall be 1/3 when sprinkled. Section 2303.2 shall be permitted within 2-HR exterior walls or less. 1007.1.2 Three or More Exits or Exit Access Doorways – Where 3 or more exits is required, not less than 2 exit or exit access doorways shall be arranged in accordance with Section 1007.1.1, Additional required exit shall be arranged a reasonable distance apart so that if one becomes blocked, the others will be available. Chapter 7 Fire and Smoke Protection Features 1008 Means of Egress Illumination Illumination required -The means of egress, including the exit discharge, shall be illuminated at all times the building space served by the means of Fire-Resistance Ratings - The Fire-resistance rating of building elements, components or assemblies shall be in accordance egress is occupied. 1 foot-candle – 90 min at the walking surface. with ASTM E119 or UL 263 or per 703.3. 1009 Accessible means of Egress Nonsymmetrical Wall Construction – Exterior walls with a fire separation distance of more than 5 feet are allowed to be rated from the interior only. Doors, Gates and Turnstiles Requirements – The fire-resistance ratings of structural members and assemblies shall comply with this section and the requirements for the type of 1011 Stairways 1011.2 construction as specified in Table 601. The ratings shall not be less than the ratings required for the assemblies supported by the structural members. Width – not less than 44". <u>Projections</u> – Cornices, eave overhangs, exterior balconies and similar projections shall conform to this section and Section 1406. Exterior egress 705.2 1013.1 Where Required – Exits and exit doors shall be marked by an exit sign readily visible from any direction of travel. Exit sign placement shall be balconies and exterior exit stairways and ramps shall comply with Sections 1021 and 1027 respectively. such that no point in an exit corridor is more than 100 feet. **Exit Access Travel Distance** Exception - Buildings on the same lot that together qualify as one aggregate building under the limitations of Chapter 5 are not required to comply with this section for projections between buildings. Projections on the exterior walls of these buildings that face each other are not limited in length. Table 1017.2 - Exit Access Travel Distance 705.2.2 <u>Type 3 Construction</u> – Projections from walls of Type III, IV, or V shall be of any construction. A-3 250 feet <u>Fire-resistance Ratings</u> – Exterior walls shall be rated in accordance with tables 601 and 602. The required rating of an exterior walls with a fire 1020.1 Table 1020.1 - Corridor Fire-Resistance Rating separation distance of greater than 10 feet shall be rated for exposure to fire from the inside. Distance less than 10 feet shall be rated from both sides. Structural Stability – Exterior walls shall extend to the height required by section 705.11 Parapets. Interior structural elements that brace the exterior A - Greater than 30 occupants - 0 hour with Sprinkler wall BUT that are not located within the plane of the exterior wall shall have the minimum fire-resistance rating required in Table 601 for that structural Corridor Width – The minimum width shall be 44 inches <u>Construction</u> – Enclosures shall be 2-hours where connecting 4-stories or more and not less than 1-hour where connecting less than 4-stories. Stairs at Exterior Walls – Walls or openings exposed by other parts of the building at an angle of less than 180 degrees, the building exterior walls Structural elements that brace the exterior wall BUT are located outside of the exterior wall or within the plane of the exterior wall shall have the minimum fire-resistance rating required in Tables 601 and 602 for the exterior wall. within 10-feet horizontally of nonrated wall or unprotected opening shall have a fire-resistance of not less than 1-hour. Openings within such exterior Openings – The maximum area of unprotected and protected openings permitted – see Table 705.8 walls shall be protected by ¾ hour. This construction shall extend vertically from the ground to a point 10 feet above the topmost landing or the roofline. 705.8.5 Vertical Separation of Openings -Exception 2 – This section shall not apply to buildings equipped with an automatic sprinkler system in accordance with section 903.3.1.1 or 903.3.1.2. 1026.1 <u>Horizontal Exits</u> – Horizontal exits shall not serve at the only exit from a portion of the building and where Joints – Joints made in or between exterior walls required by this section to have a fire-resistance rating shall comply with Section 715. 2-or more exits are required, not more than $\frac{1}{2}$ of the total number of exits shall be horizontal exits. Refuge Area – The refuge area of the horizontal exit shall be a space occupied by the same tenant and each such refuge area shall be adequate to Parapets – Not required, sprinkled. Table 705.8 - Max. Area of Exterior Openings based on Fire Separation Distance* accommodate the original occupant load of the refuge area plus the occupant load anticipated from the adjoining compartment. 1026.4.1 <u>Capacity</u> – The capacity of the refuge area shall be computed based on a net floor area allowance of 3 SF for each occupant to be accommodated. Fire Separation Distance Degree of Opening Protection Allowable Area 25 to less than 30 No Limit 1028 1028.1 30 or greater No Limit General – Exits shall discharge directly to the exterior of the building. The exit discharge shall be at grade or shall provide direct access to grade. The *For openings in Fire walls in buildings on the same lot see Section 706.8 exit discharge shall not re-enter the building. The combined use of Exceptions 1 and 2 shall not exceed 50% of the number of required exits: Fire Walls (Area Separation Wall) Exception 1 – A maximum of 50% is allowed provided all of the following are met; 706.1 General – Each portion of a building separated by one or more fire walls that comply with the provisions of this section shall be considered a separate 1.1 Such exit enclosures egress to a free and unobstructed path of travel to an exterior exit. 1.2 The entire area of the level of discharge is separate from areas below by rated construction. 1.3 The egress path from the exit enclosure on the level of discharge is sprinkled. Structural Stability – Fire Walls shall be designed and constructed to allow collapse of the structure on each side without collapse of the wall. Walls can be free-standing, laterally supported and tied walls, and double wall construction. See Gypsum Association's Fire Resistance Design Manual and NFPA Exception 3 – Horizontal exits shall not be required to discharge directly to the exterior. <u>Materials</u> – Fire Walls shall be of any approved non-combustible materials. 706.4 Fire-resistance Rating – Table 706.4 Interior Environment Horizontal Continuity – Fire Walls shall be continuous from exterior wall to exterior wall and shall extend not less than 18 inches beyond the exterior Exception 1 – Fire walls shall be permitted to terminate at the interior surface of combustible exterior sheathing or siding provided the exterior wall has (See Rhode Island Energy Code SBC 8-2021) a fire-resistance rating of not less than 1 hour for a horizontal distance of not less than 4 feet. Exception 3 – Fire walls shall be permitted to terminate at the interior side of noncombustible exterior sheathing where the building on each side of the Combustible Materials on the Exterior side of Exterior Walls fire wall is protected by an automatic sprinkler system – 903.3.1.1 or 903.3.1.2. 1406.2.1 Type I, II, III and IV Construction – 2. Combustible exterior wall coverings shall be limited to 40 feet in height. Stepped Buildings – Where a fire wall serves as an exterior wall for a building and separates buildings having different roof levels, such wall shall terminate at a point not less than 30 inches above the lower roof level, provided the exterior wall for a height of 15 feet above the lower roof is not less Chapter 15 Roof Assemblies and Rooftop Structures than 1-hour construction from both sides with openings protected by fire assemblies having a fire protection rating not less than \(^3\)4 hour. 1502.2 <u>Secondary Drainage Required</u> – Secondary (emergency overflow) drains or scuppers Exception 1 – Where the fire wall terminates at the underside of the roof sheathing, deck or slab of the lower roof, provided Where roof drains are required, shall be provided where the roof perimeter construction extends above the roof in such a manner that water will be (see Figure 706.6.1(3) Fire Wall – Extension Exception) entrapped if the primary drains allow buildup for any reason. • The lower roof assembly within 10 feet of the wall has not less than 1-hour fire-resistance rating and the entire length and span of the supporting Scuppers – When scuppers are used for secondary (emergency overflow) roof drainage, the quantity, size, and location and inlet elevation of the scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed. Scuppers shall not have openings elements for the rated roof assembly has a rating of not less than 1-hour. • Openings in the lower roof shall not be located within 10 feet of the fire wall. less than 4". Openings – Each opening through a fire wall shall be in accordance with Section 716.5 and shall not exceed 156 square feet. Weather Protection 1503.5 Exception 2 – Openings shall not be limited to 156 SF where both buildings are sprinkled. <u>Crickets and Saddles</u> - A cricket shall be installed on the ridge side of any chimney or penetration greater than 30 inches wide as measured perpendicular to the slope. Cricket coverings shall be sheet metal or of the same material as the roof covering. <u>Fire-Resistance Rating</u> – Ratings shall comply with this section see Table 707.3.10 – (A = 2 hour) Exception: Unit skylights installed in accordance with Section 2405.5 and flashed in accordance with the manufacturer's instructions shall be 707.5.1 Supporting Construction – The supporting construction for a fire barrier shall be protected to afford the required fire-resistance rating of the fire permitted to be installed without a cricket or saddle. Performance Requirements barrier supported. 1504.1 Wind Resistance of Roofs - Roof decks and coverings shall be designed in accordance for winds loads in accordance with Chapter 16 and sections 708.1 <u>General</u> – The following wall assemblies shall comply. 1504.2, 1504.3 and 1504.4. Fire Classification. 3.Corridor Walls – Section 1020.1 708.3 <u>Fire-Resistance Rating</u> – Fire partitions shall have a rating of not less than 1-hour. Table 1505.1 – Construction Type 3B - Class C Exceptions: Corridors – ½ hours. Required Plumbing Fixtures 709.3 <u>Fire-resistance Rating</u> – Fire partitions shall have a rating of not less than 1-hour. Occupant Load: 896 Assume 50% Women / 50% Men = 448 713.4 <u>Fire-Resistance Rating</u> – Shaft enclosures shall have not less than 1-hour where connecting less than 4-stories – including basements. Women's Toilet 1/40 = 12 Required Men's Toilet 1/75 (50% Urinal) = 6 Required Shafts shall not be less than the floor assembly penetrated, but need not exceed 2-hours. Women's Lavatories 1/150 = 3 Required Exterior Walls – Where exterior walls serve as part of a required shaft, such walls shall comply with the requirements of Section 705 for Men's Lavatories 1/200 = 3 Required exterior walls and the fire-resistance rated enclosure requirements shall not apply.

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

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City of Providence

25 Dorrance Street Providence, RI 02903

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

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MEP/FP Engineer Allied Consulting Engineering Services,

270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

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Code Review Summary

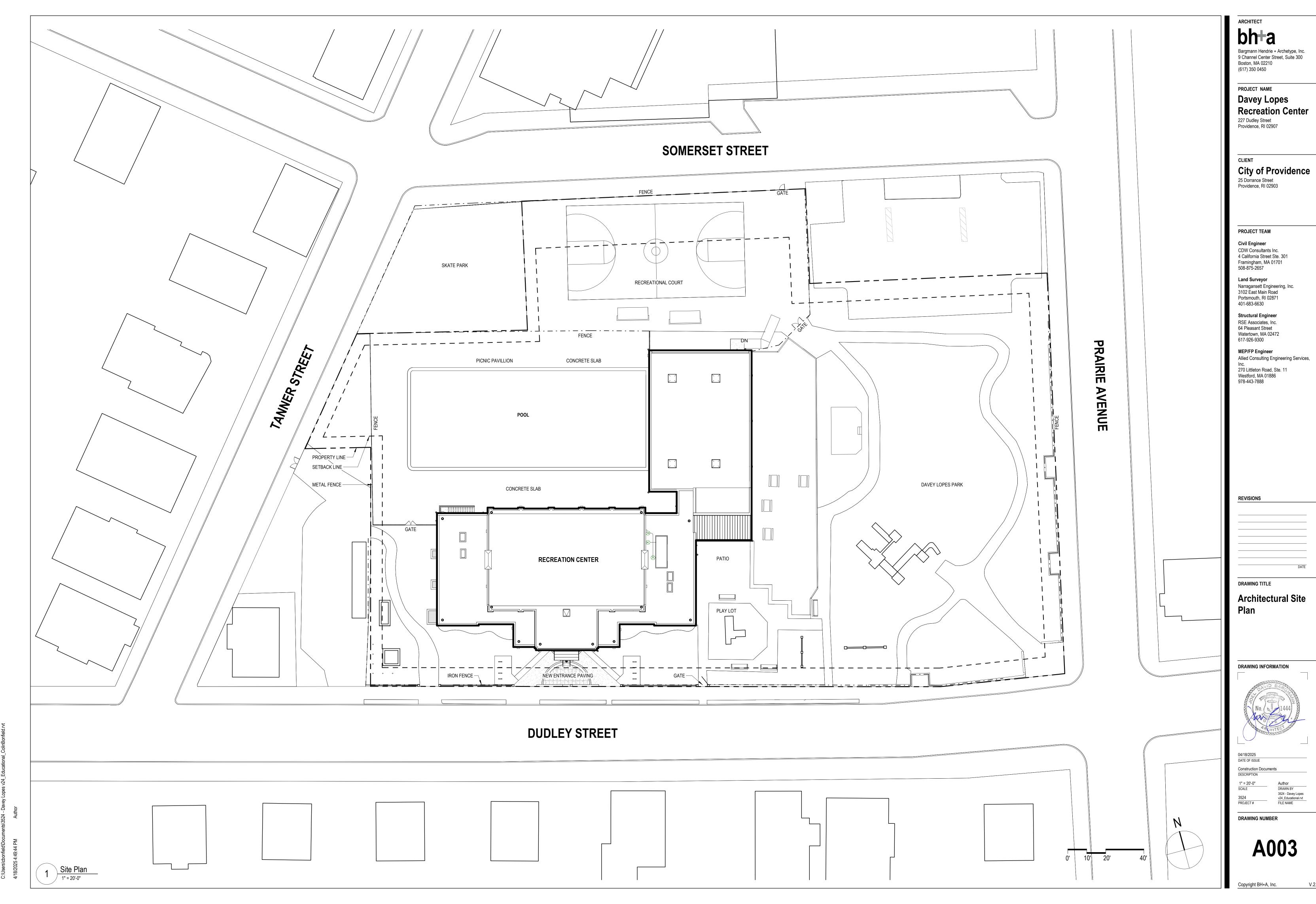
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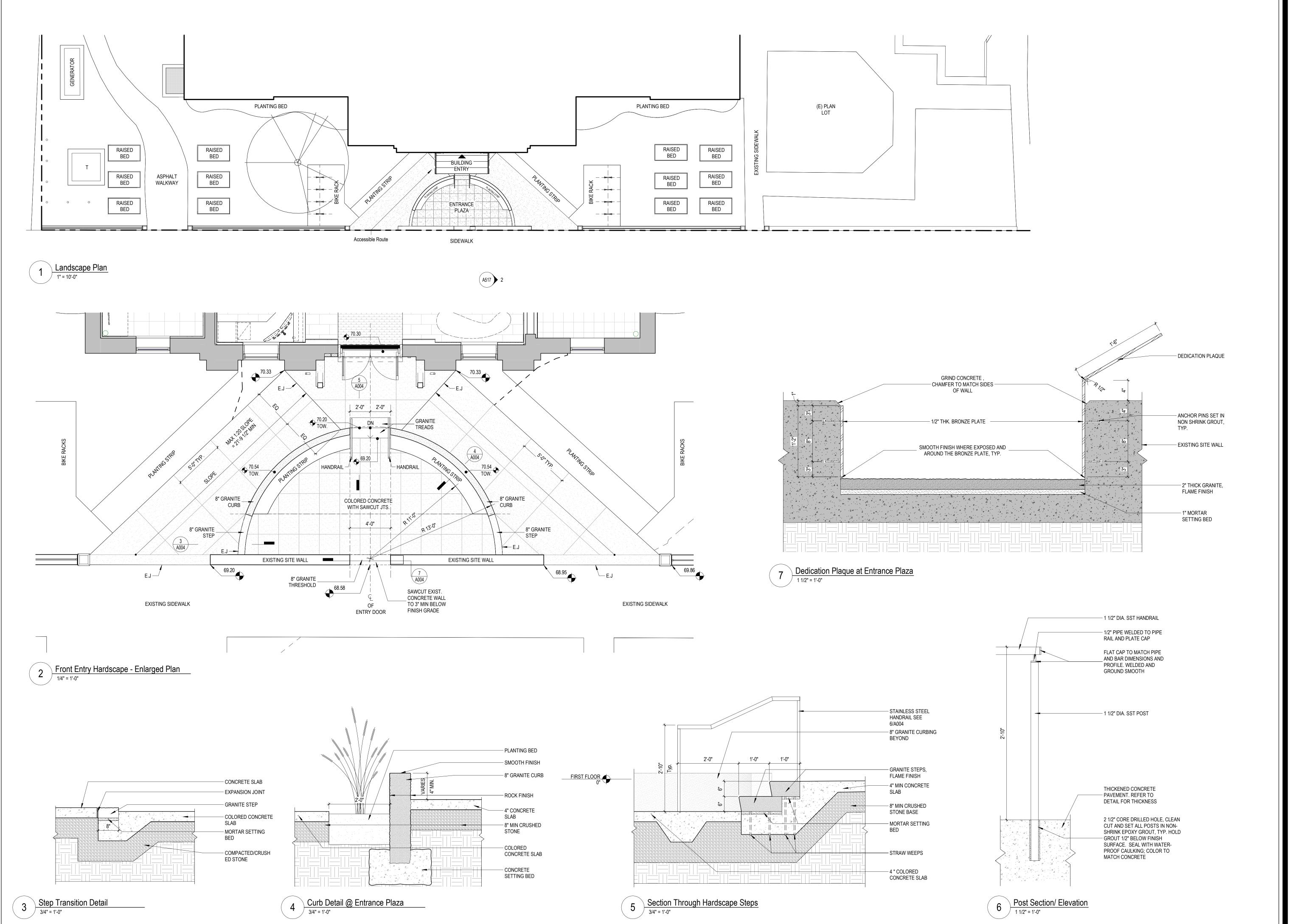


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Providence, RI 02907

CLIENT

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Civil Engineer
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4 California Street Ste. 301
Framingham, MA 01701
508-875-2657

Land Surveyor

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3102 East Main Road

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978-443-7888

617-926-9300 MEP/FP Engineer

Allied Consulting Engineering Services, Inc. 270 Littleton Road, Ste. 11 Westford, MA 01886

REVISIONS

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Front Entry Hardscape

DRAWING INFORMATION



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Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

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Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer Allied Consulting Engineering Services,

270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

Site Hardscape



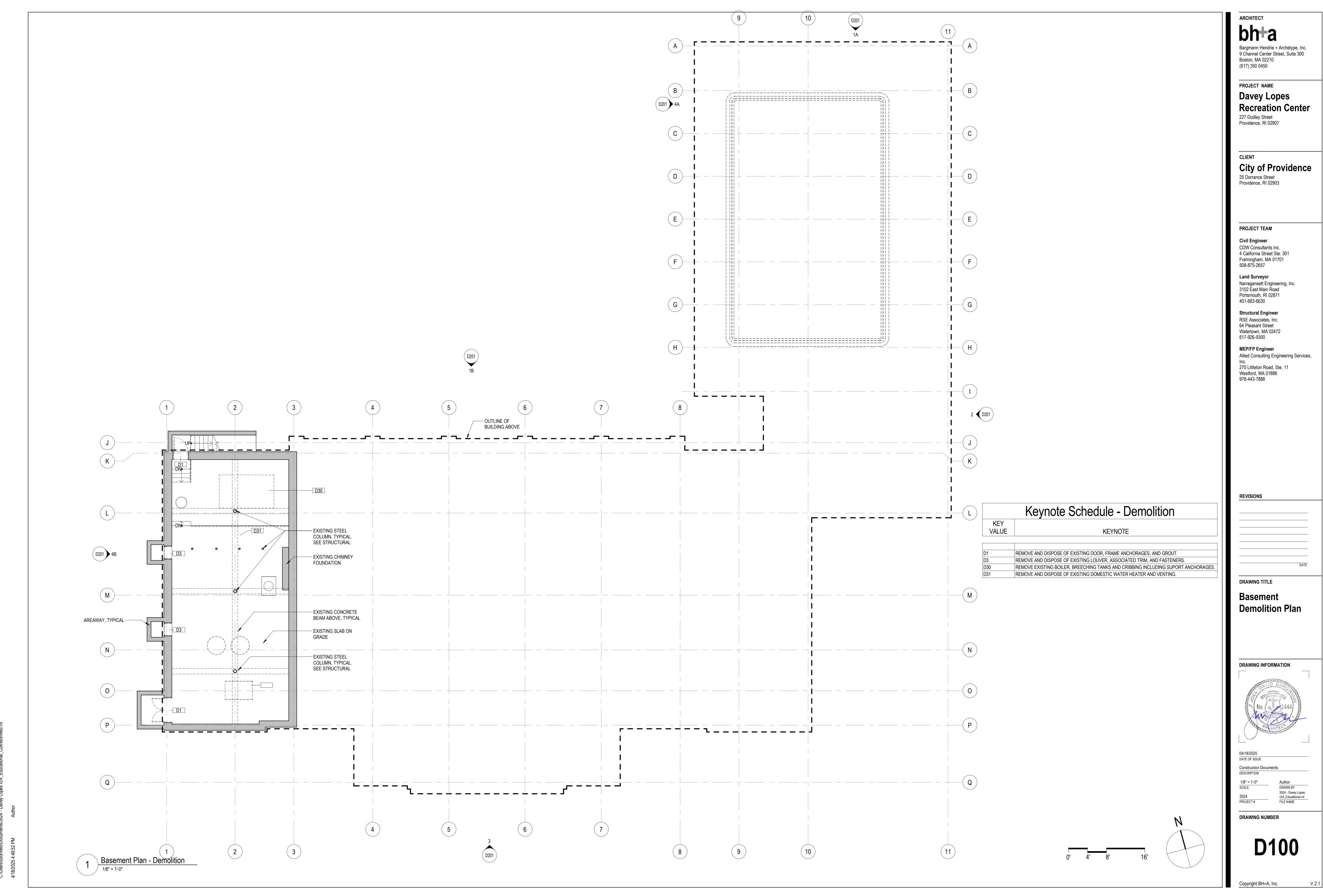
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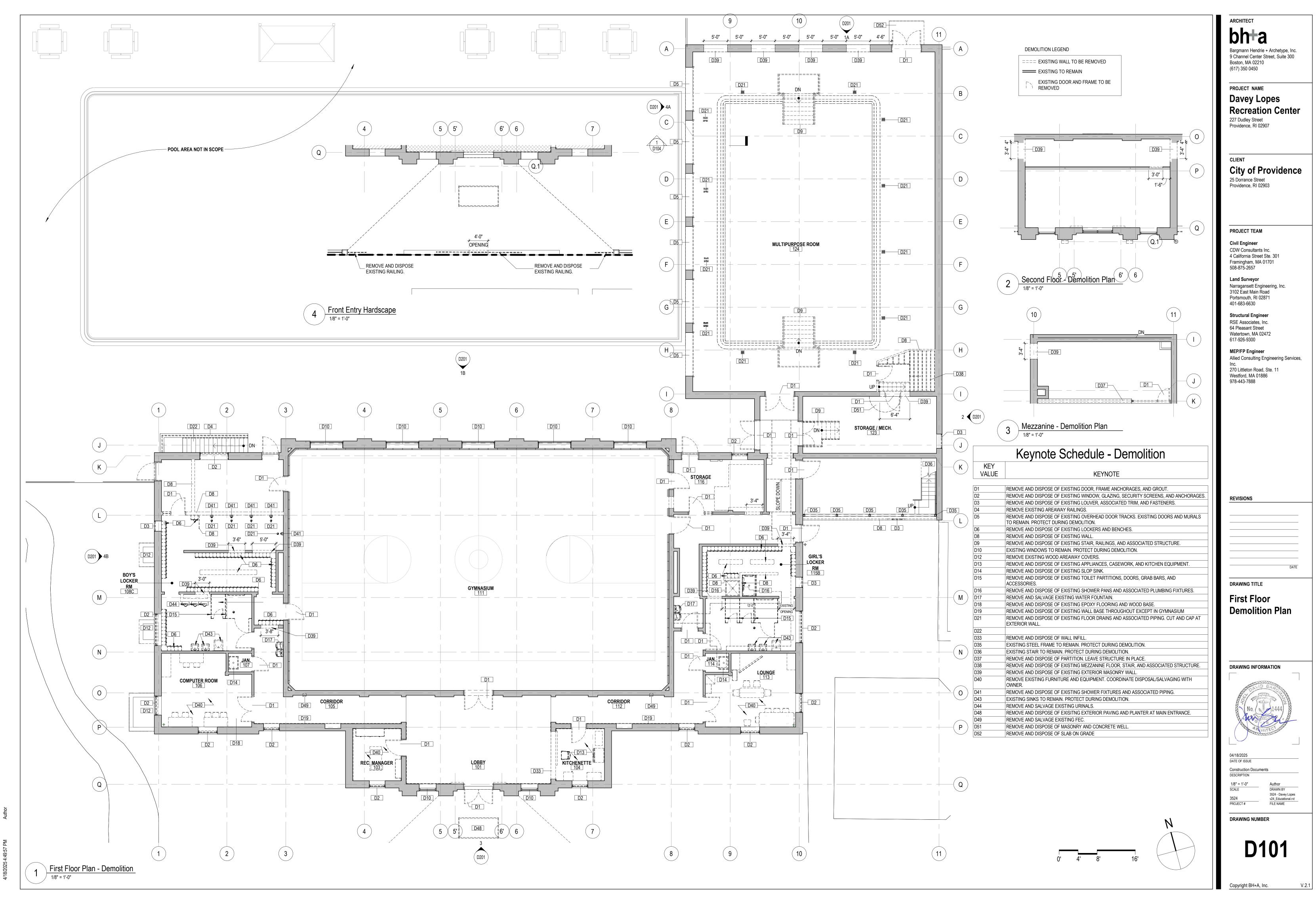
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DRAWING NUMBER

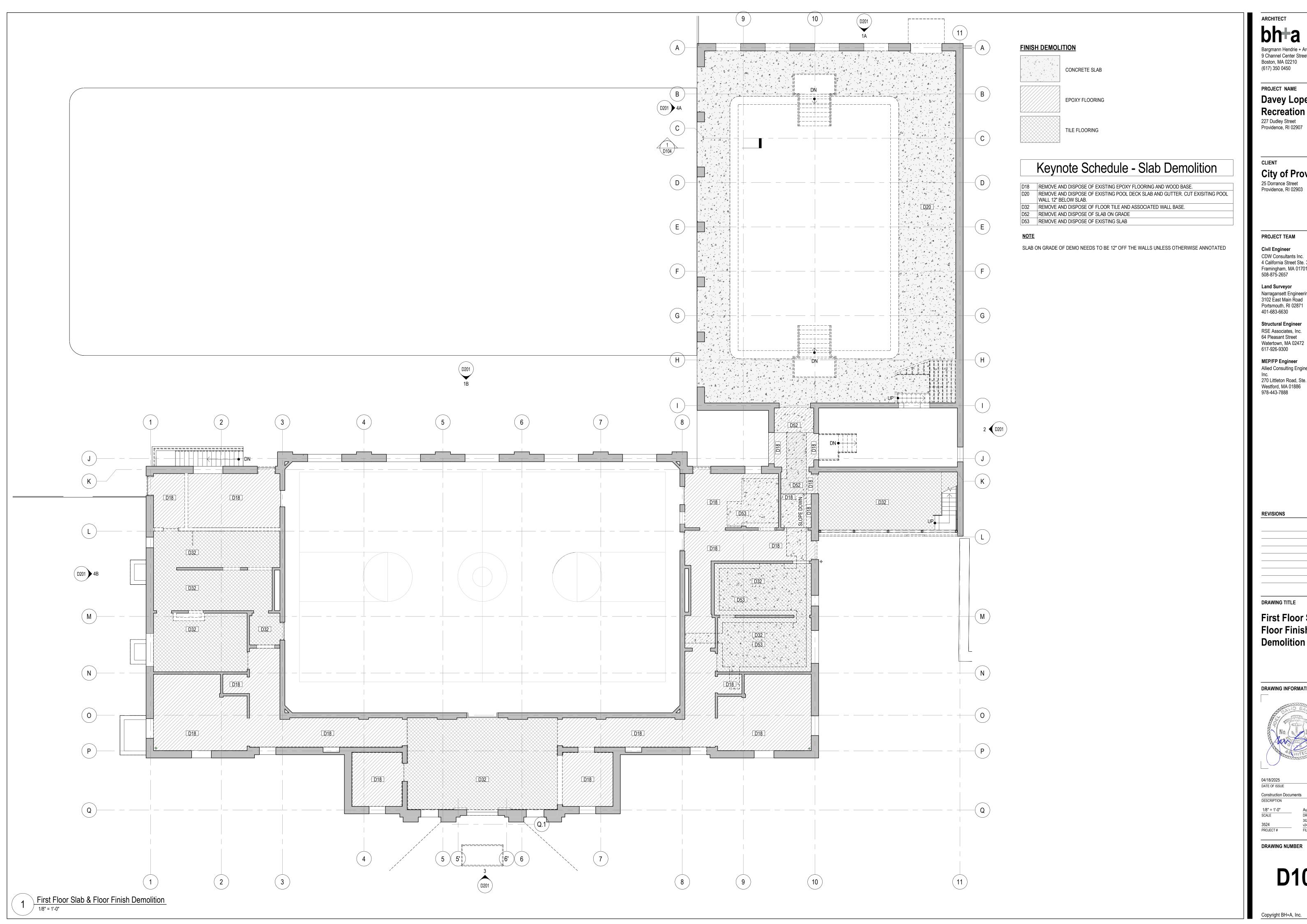
Author DRAWN BY

3524 - Davey Lopes





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PROJECT NAME Davey Lopes **Recreation Center**

City of Providence

25 Dorrance Street Providence, RI 02903

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300 MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

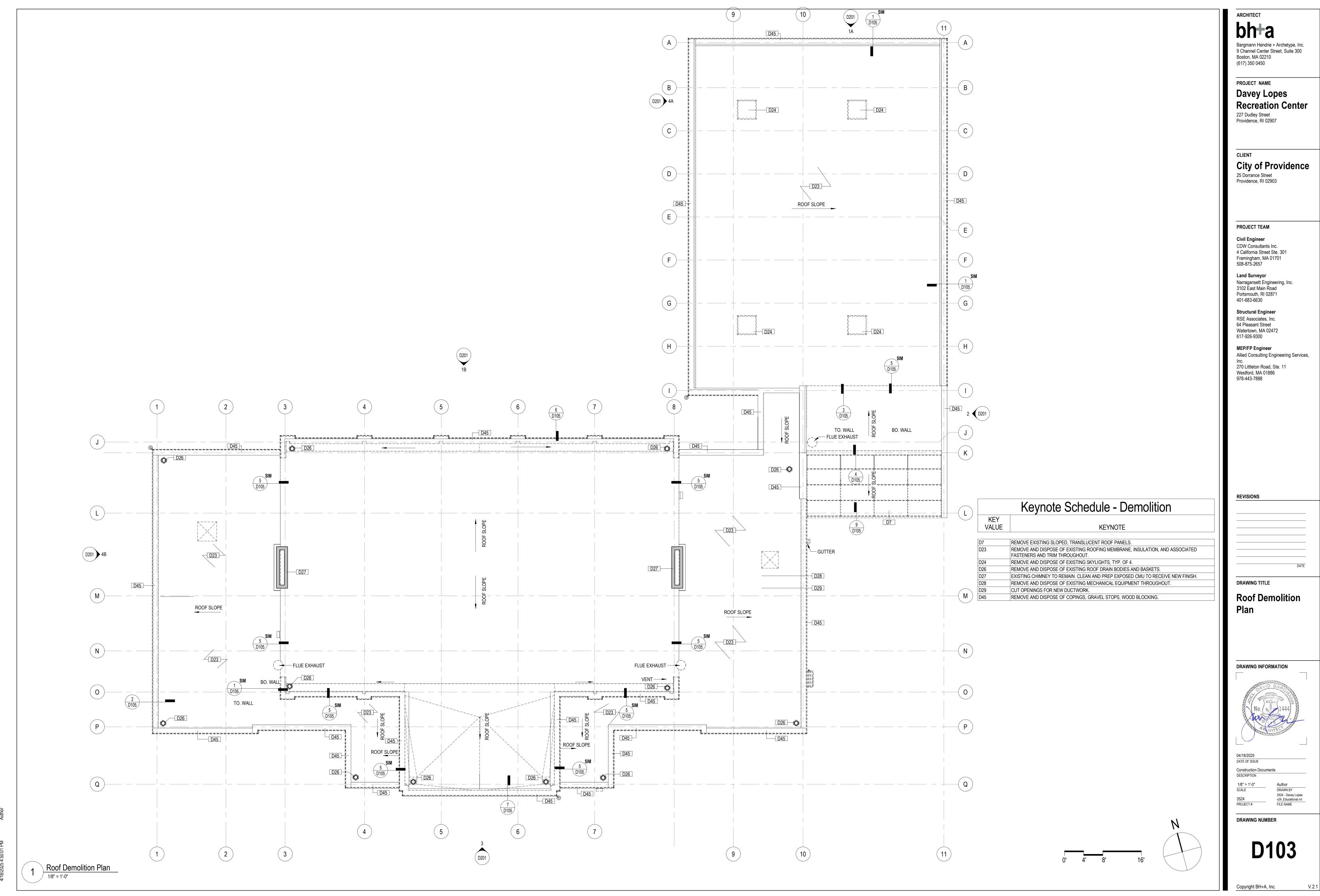
DRAWING TITLE First Floor Slab & Floor Finish

DRAWING INFORMATION

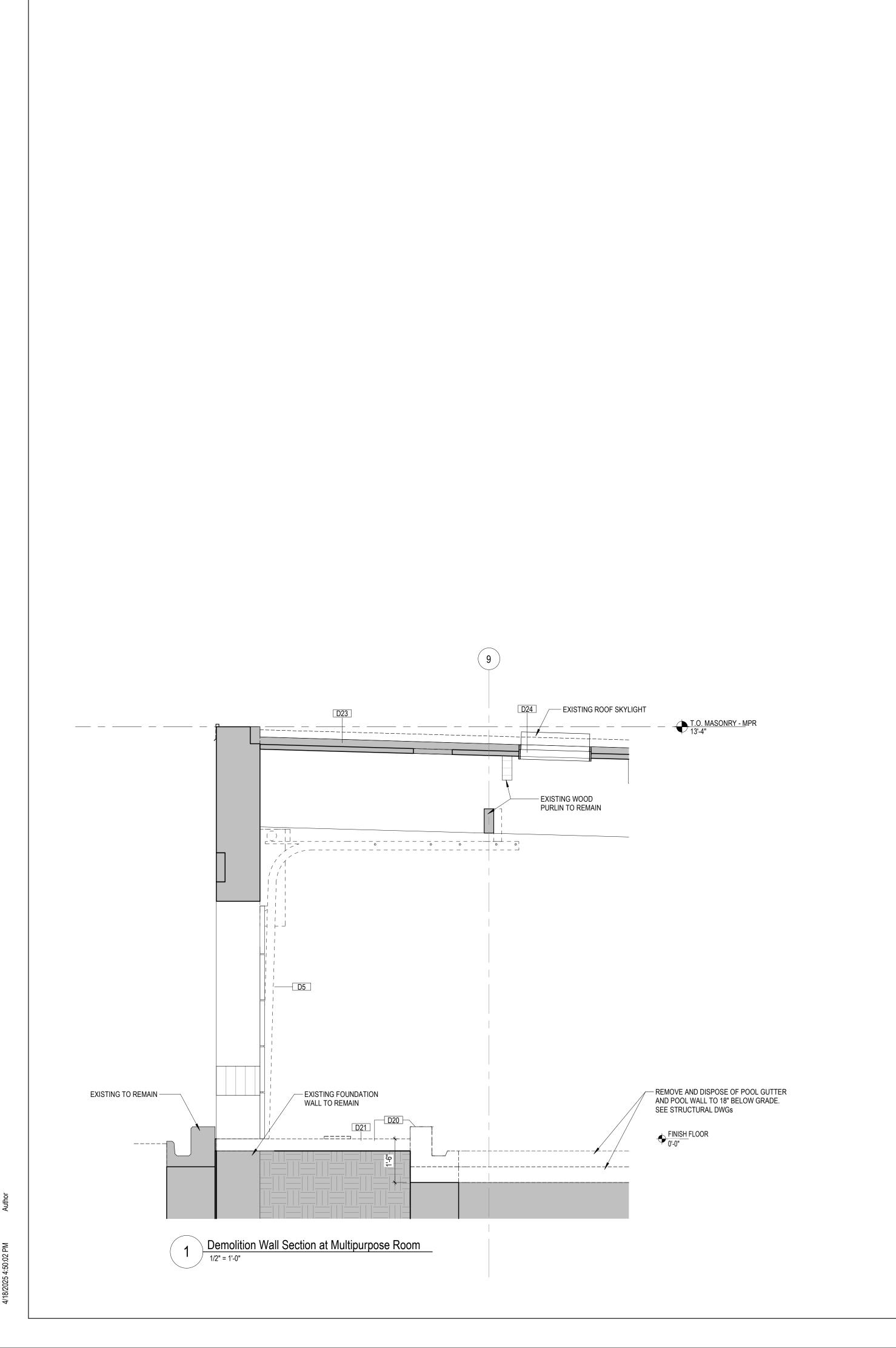


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PROJECT NAME

Davey Lopes
Recreation Center

227 Dudley Street Providence, RI 02907

City of Providence 25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor
Narragansett Engineering, Inc.
3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

Keynote Schedule - Demolition

TO REMAIN. PROTECT DURING DEMOLITION.

REMOVE AND DISPOSE OF EXISTING SKYLIGHTS, TYP. OF 4.

12" BELOW SLAB.

EXTERIOR WALL.

VALUE

KEYNOTE

REMOVE AND DISPOSE OF EXISTING OVERHEAD DOOR TRACKS. EXISTING DOORS AND MURALS

REMOVE AND DISPOSE OF EXISTING POOL DECK SLAB AND GUTTER. CUT EXISITING POOL WALL

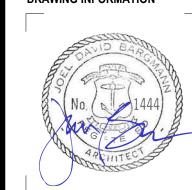
REMOVE AND DISPOSE OF EXISTING FLOOR DRAINS AND ASSOCIATED PIPING. CUT AND CAP AT

REMOVE AND DISPOSE OF EXISTING ROOFING MEMBRANE, INSULATION, AND ASSOCIATED FASTENERS AND TRIM THROUGHOUT.

REVISIONS

DRAWING TITLE Wall Section -**Demolition**

DRAWING INFORMATION

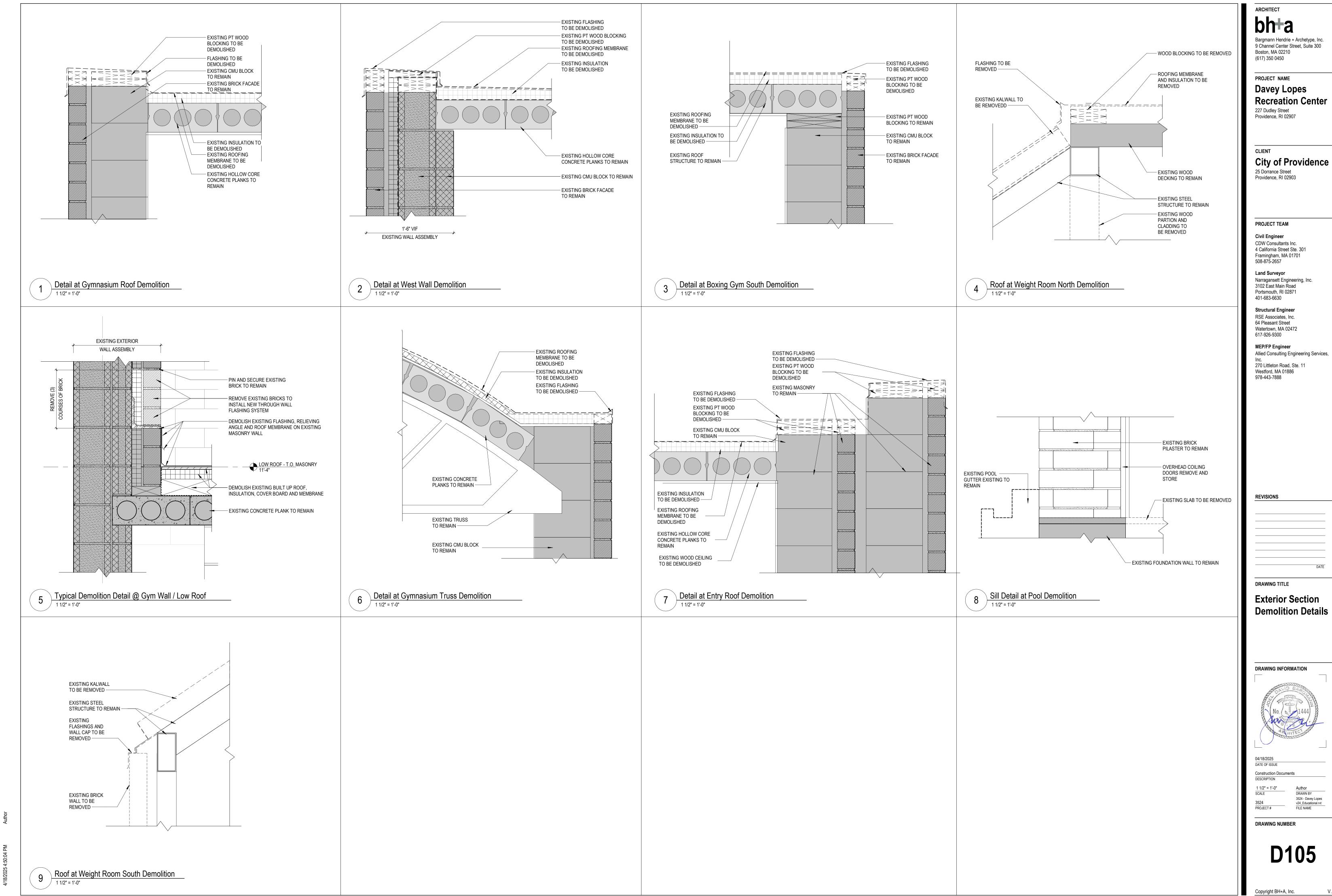


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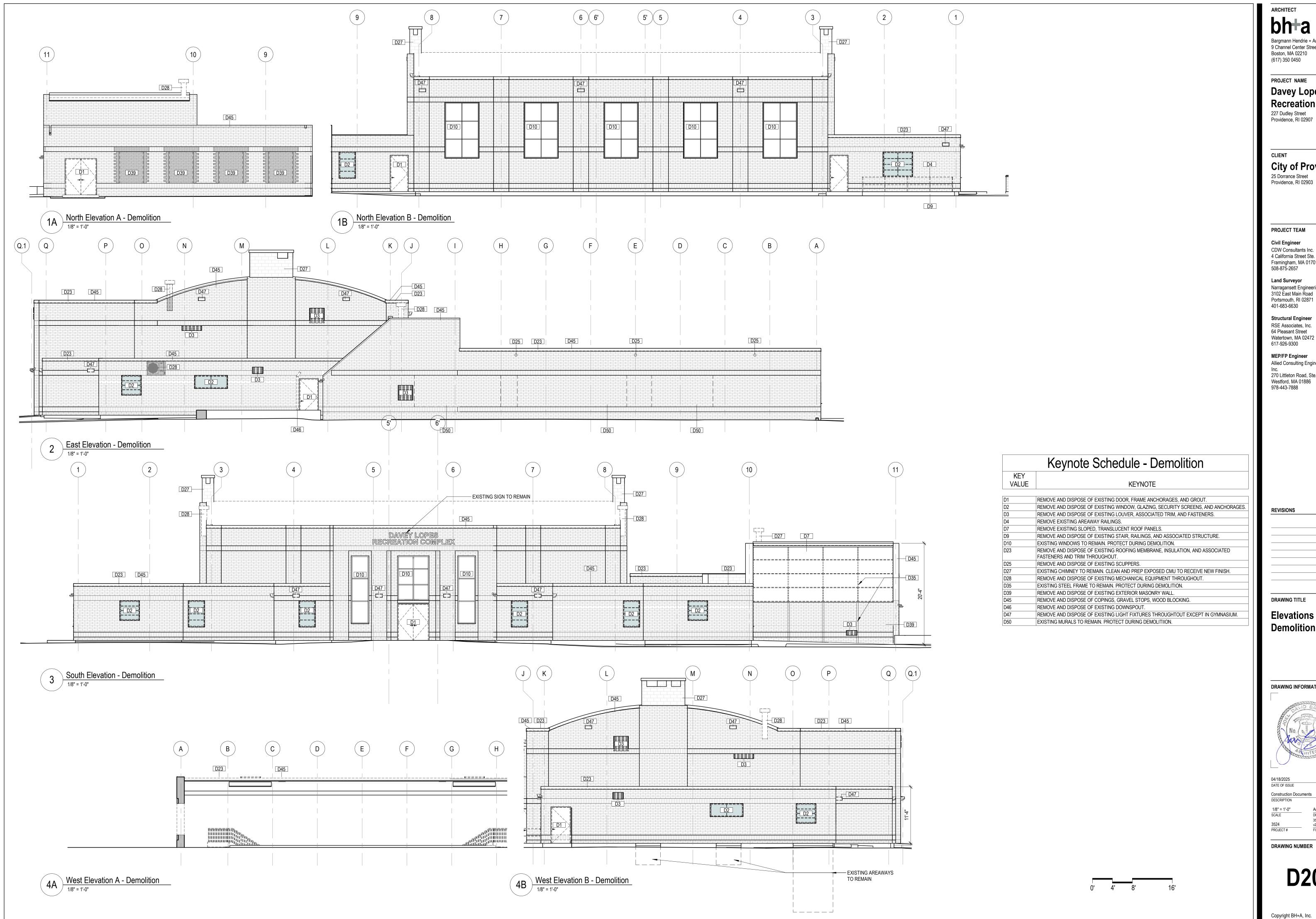
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Construction Documents DESCRIPTION

PROJECT# DRAWING NUMBER



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PROJECT NAME

Davey Lopes Recreation Center

City of Providence

25 Dorrance Street

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300 MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

REVISIONS

Elevations -**Demolition**

DRAWING INFORMATION

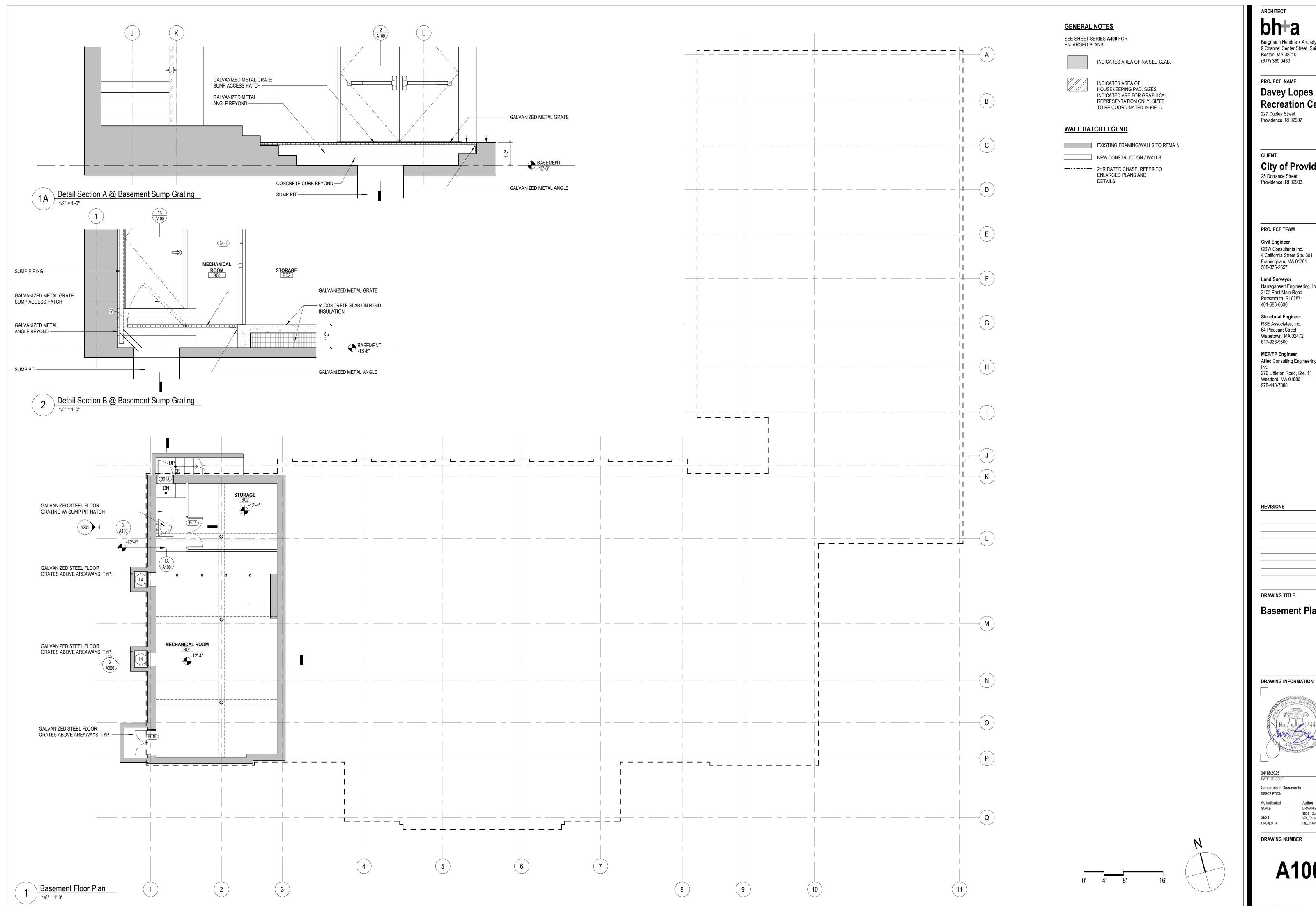


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Construction Documents DESCRIPTION

PROJECT#

DRAWING NUMBER



Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210

> PROJECT NAME Davey Lopes **Recreation Center**

City of Providence 25 Dorrance Street

PROJECT TEAM

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

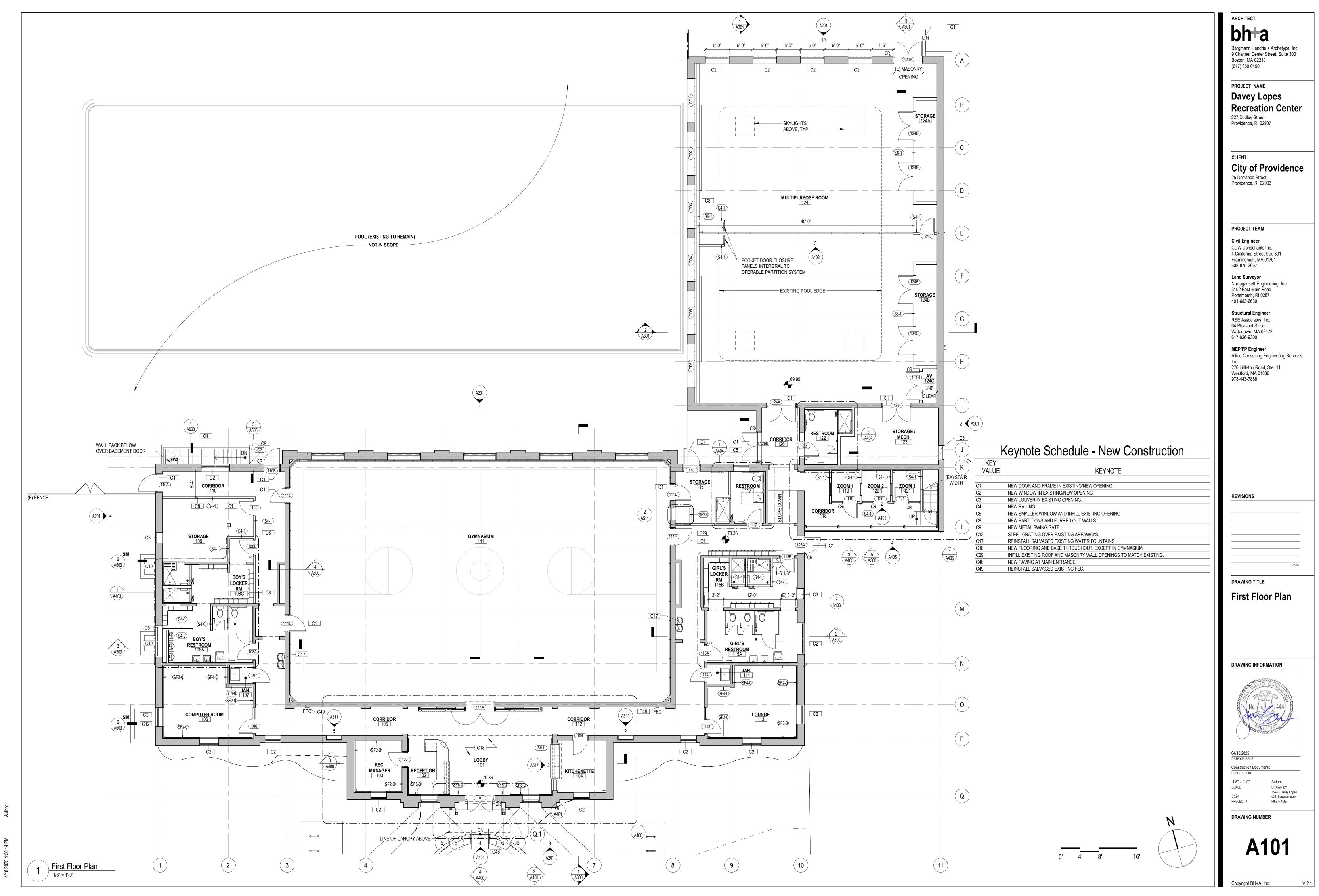
MEP/FP Engineer Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

DRAWING TITLE **Basement Plan**

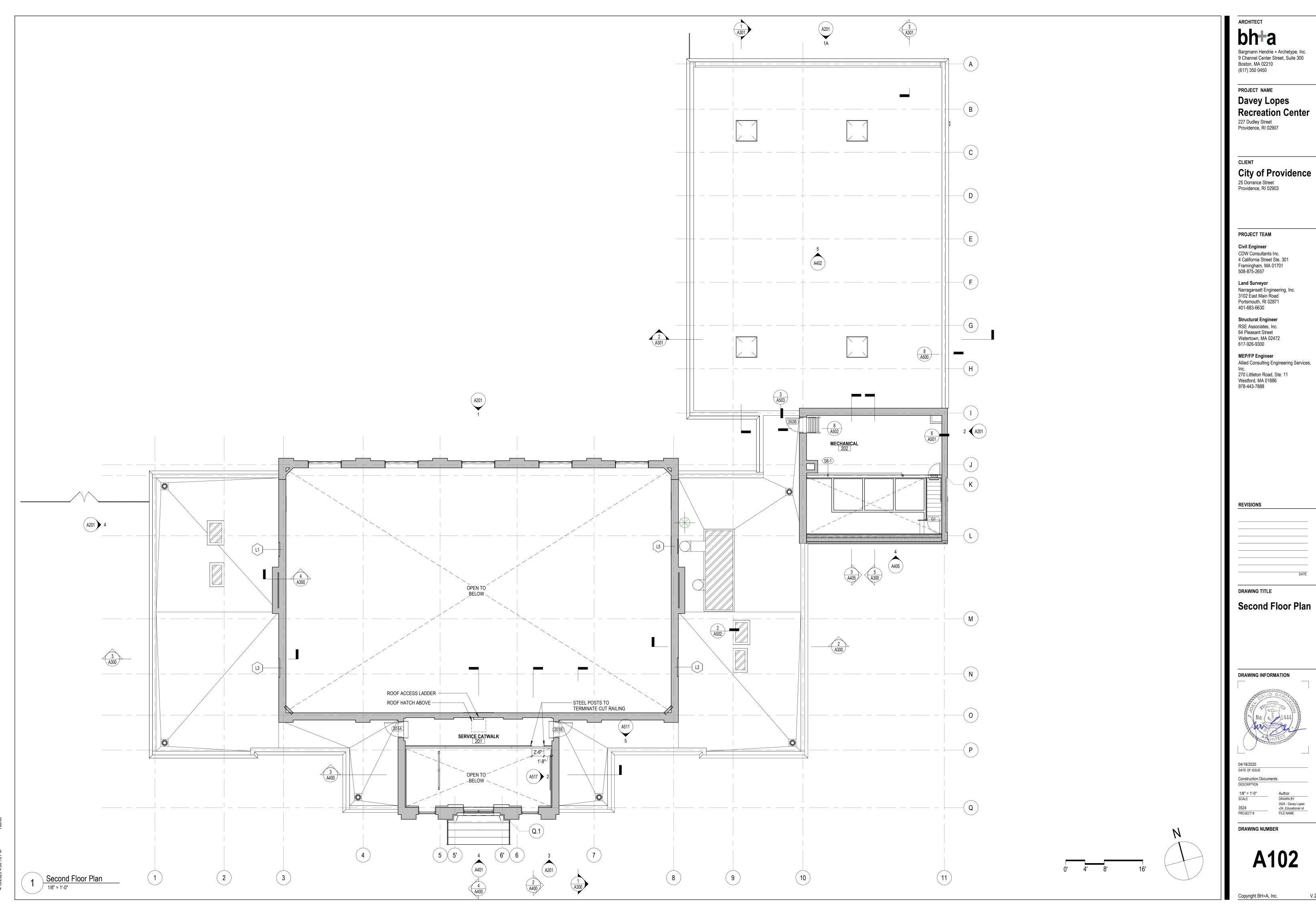


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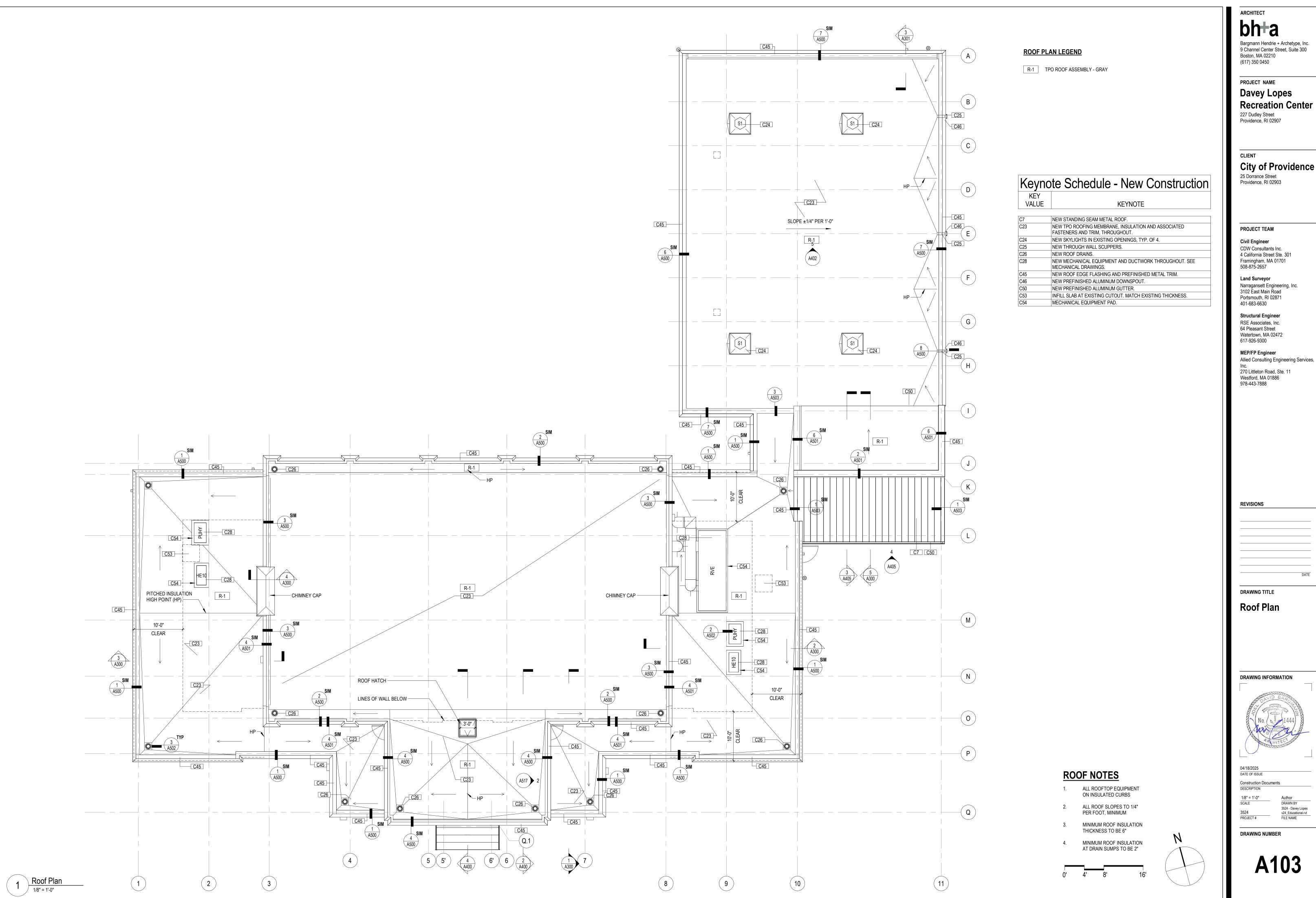
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A102



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Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME Davey Lopes

City of Providence

25 Dorrance Street Providence, RI 02903

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

Structural Engineer RSE Associates, Inc. 64 Pleasant Street

Watertown, MA 02472 617-926-9300

MEP/FP Engineer Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

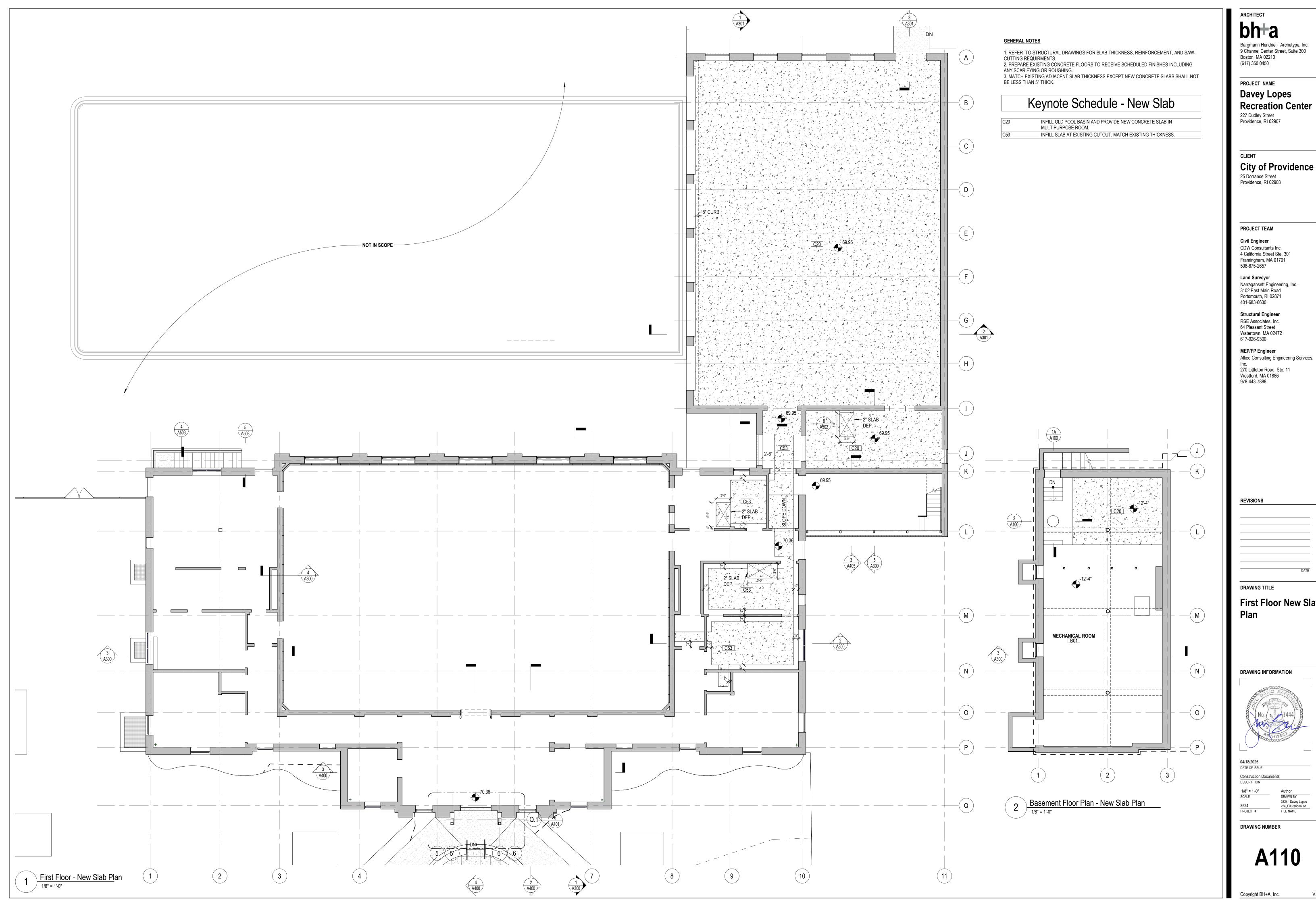
DRAWING TITLE



DATE OF ISSUE

Construction Documents

DRAWING NUMBER



9 Channel Center Street, Suite 300

Davey Lopes

City of Providence

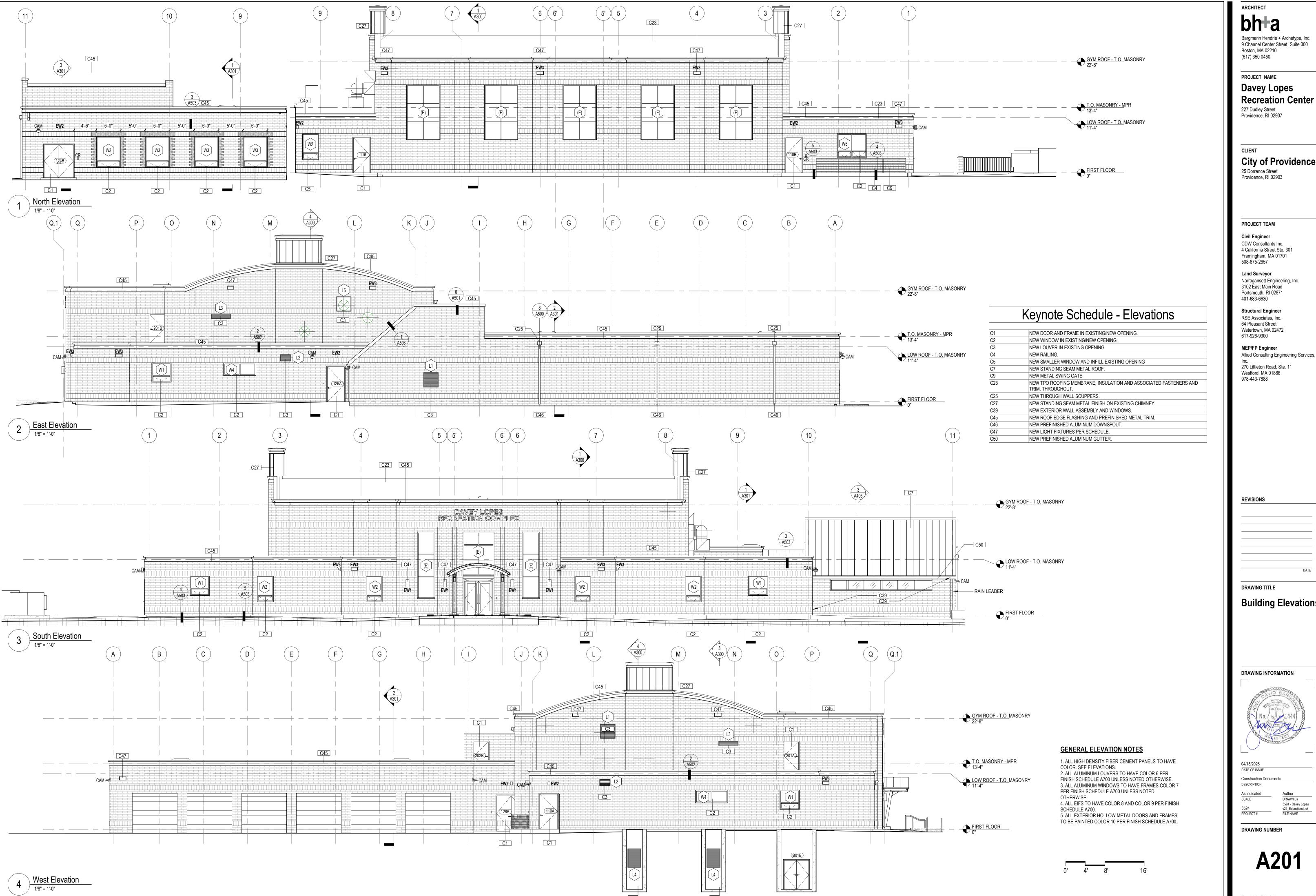
4 California Street Ste. 301 Framingham, MA 01701

Narragansett Engineering, Inc. 3102 East Main Road

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

First Floor New Slab





bh+a Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

> PROJECT NAME **Davey Lopes**

227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer Allied Consulting Engineering Services,

978-443-7888

REVISIONS

DRAWING TITLE

Building Elevations

DRAWING INFORMATION

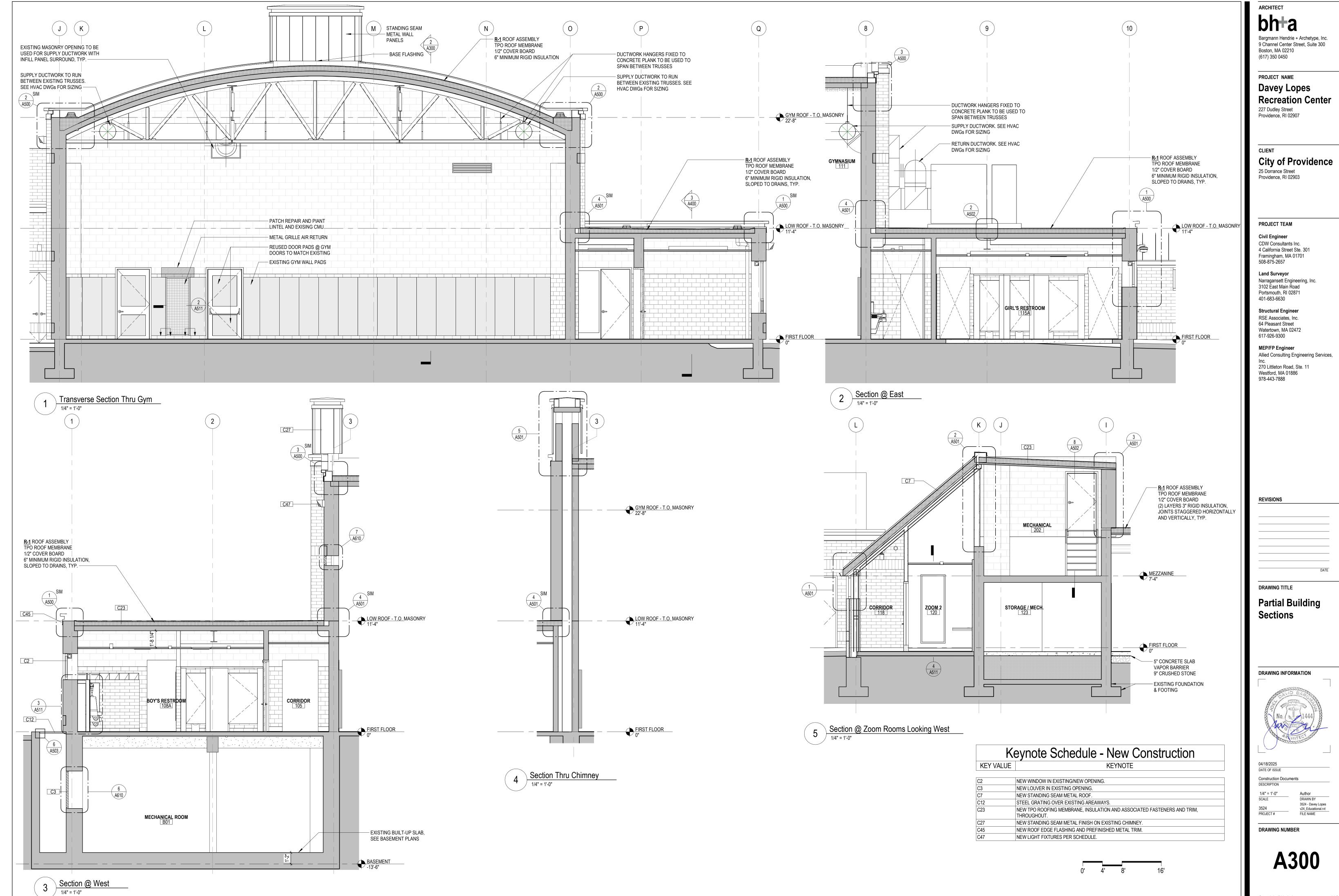


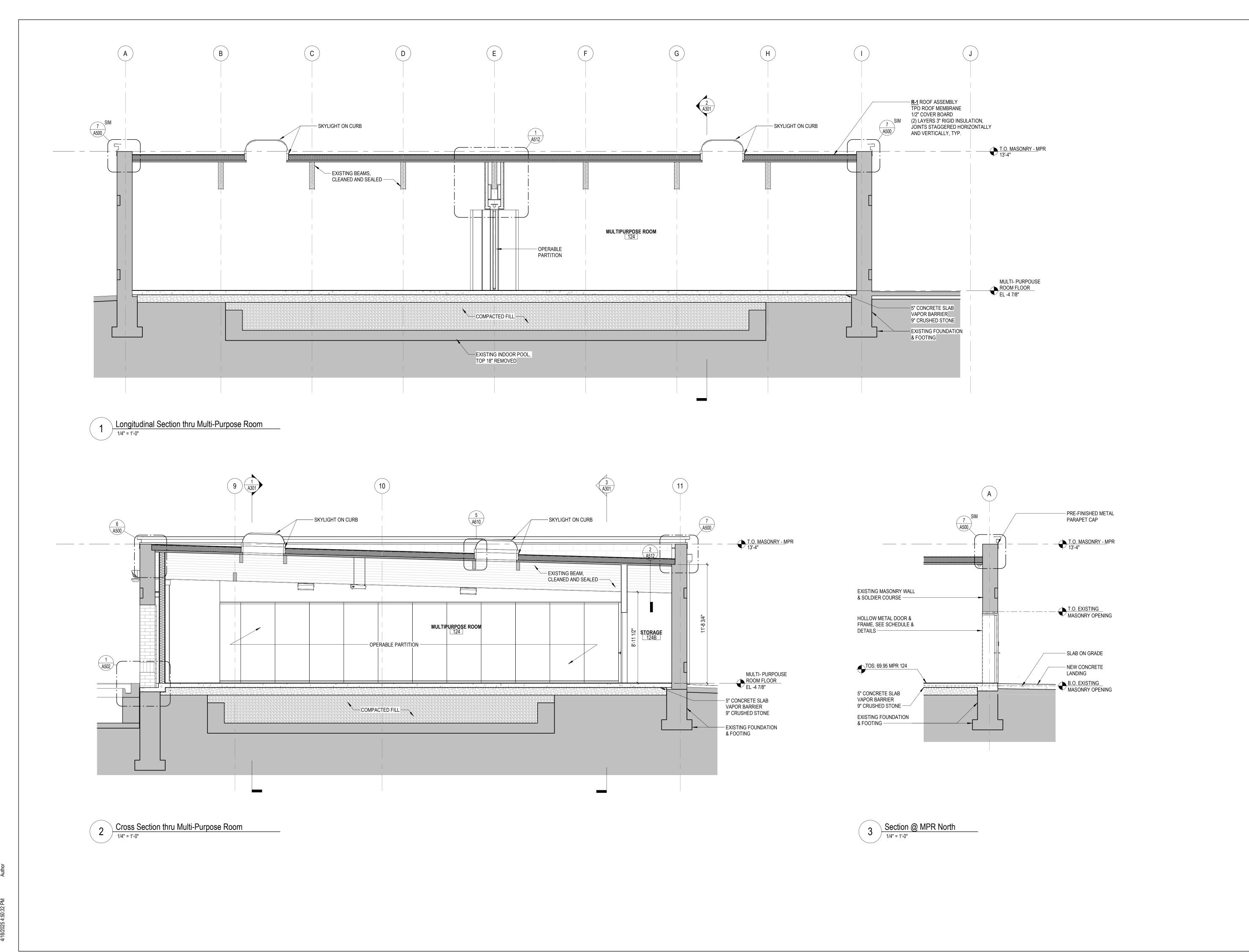
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3524 - Davey Lopes PROJECT# FILE NAME

DRAWING NUMBER





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PROJECT NAME

Davey Lopes
Recreation Center

227 Dudley Street Providence, RI 02907

CLIENT

City of Providence
25 Dorrance Street
Providence, RI 02903

PROJECT TEAM

Civil Engineer
CDW Consultants Inc.
4 California Street Ste. 301
Framingham, MA 01701
508-875-2657

Land Surveyor

Narragansett Engineering, Inc.
3102 East Main Road

Portsmouth, RI 02871
401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

Westford, MA 01886 978-443-7888

MEP/FP Engineer
Allied Consulting Engineering Services,
Inc.
270 Littleton Road, Ste. 11

REVISIONS

DRAWING TITLE

Partial Building Sections

DRAWING INFORMATION



04/18/2025 DATE OF ISSUE

Construction Documents
DESCRIPTION

1/4" = 1'-0"

PROJECT#

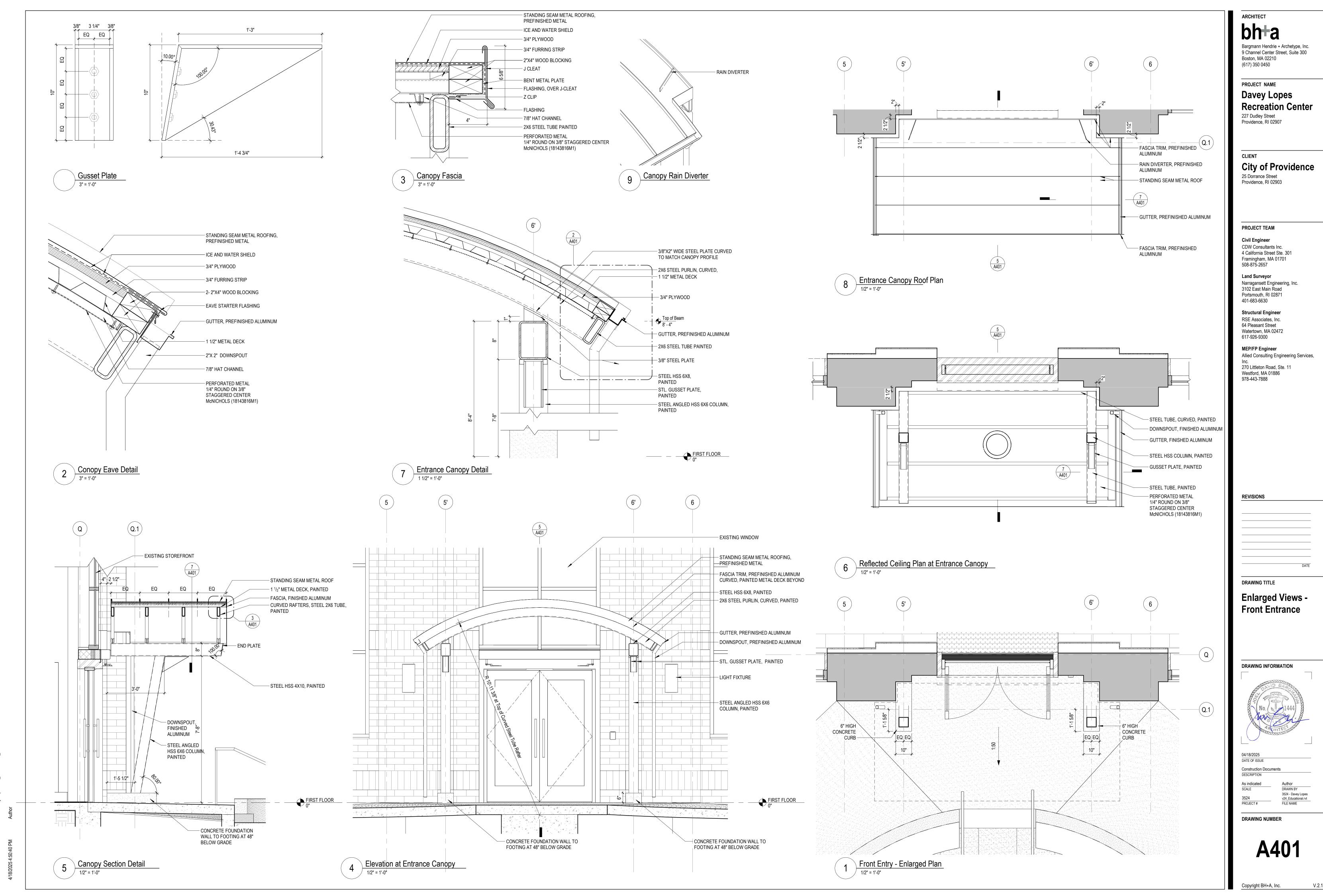
1/4" = 1'-0" Au SCALE DF

DRAWING NUMBER

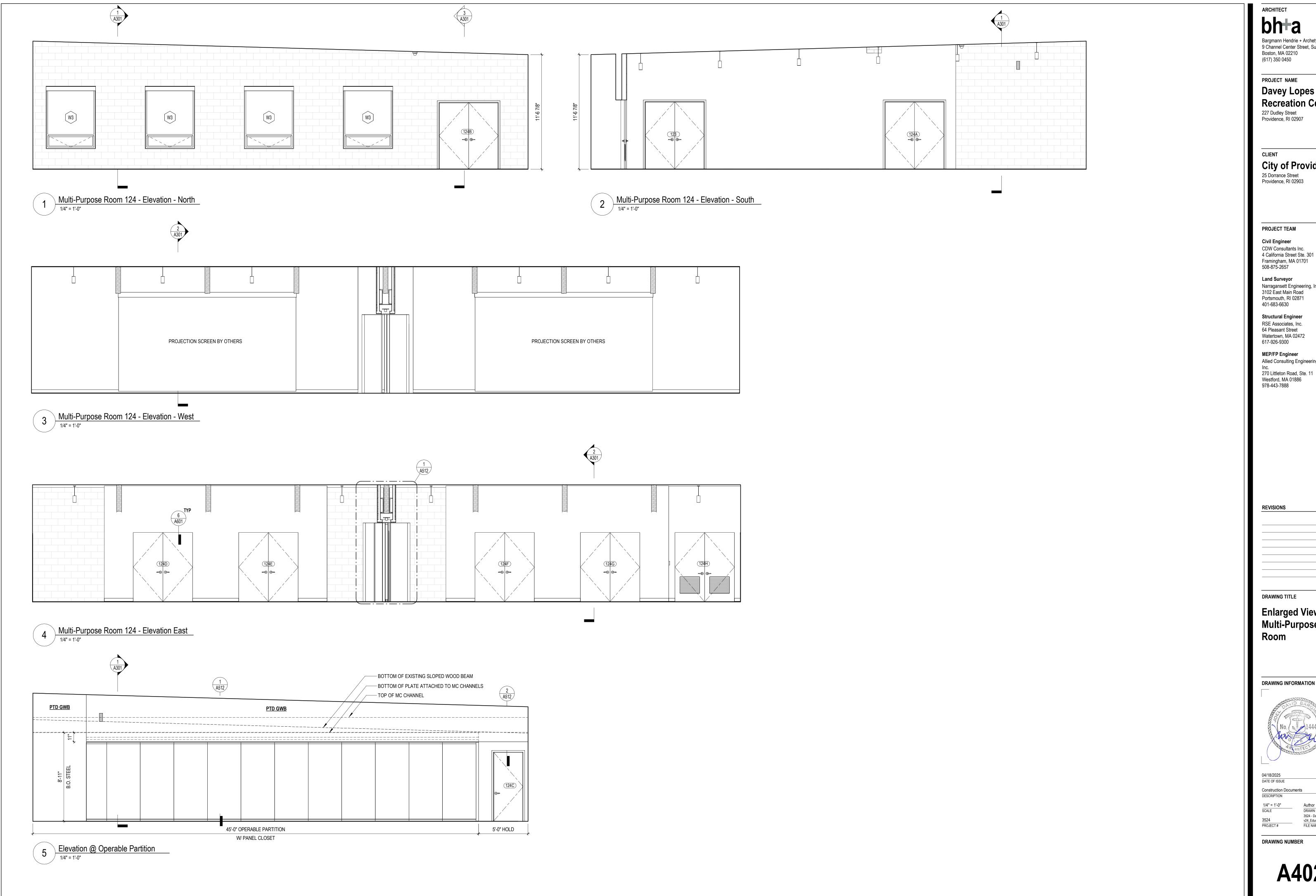
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Davey Lopes Recreation Center

City of Providence

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

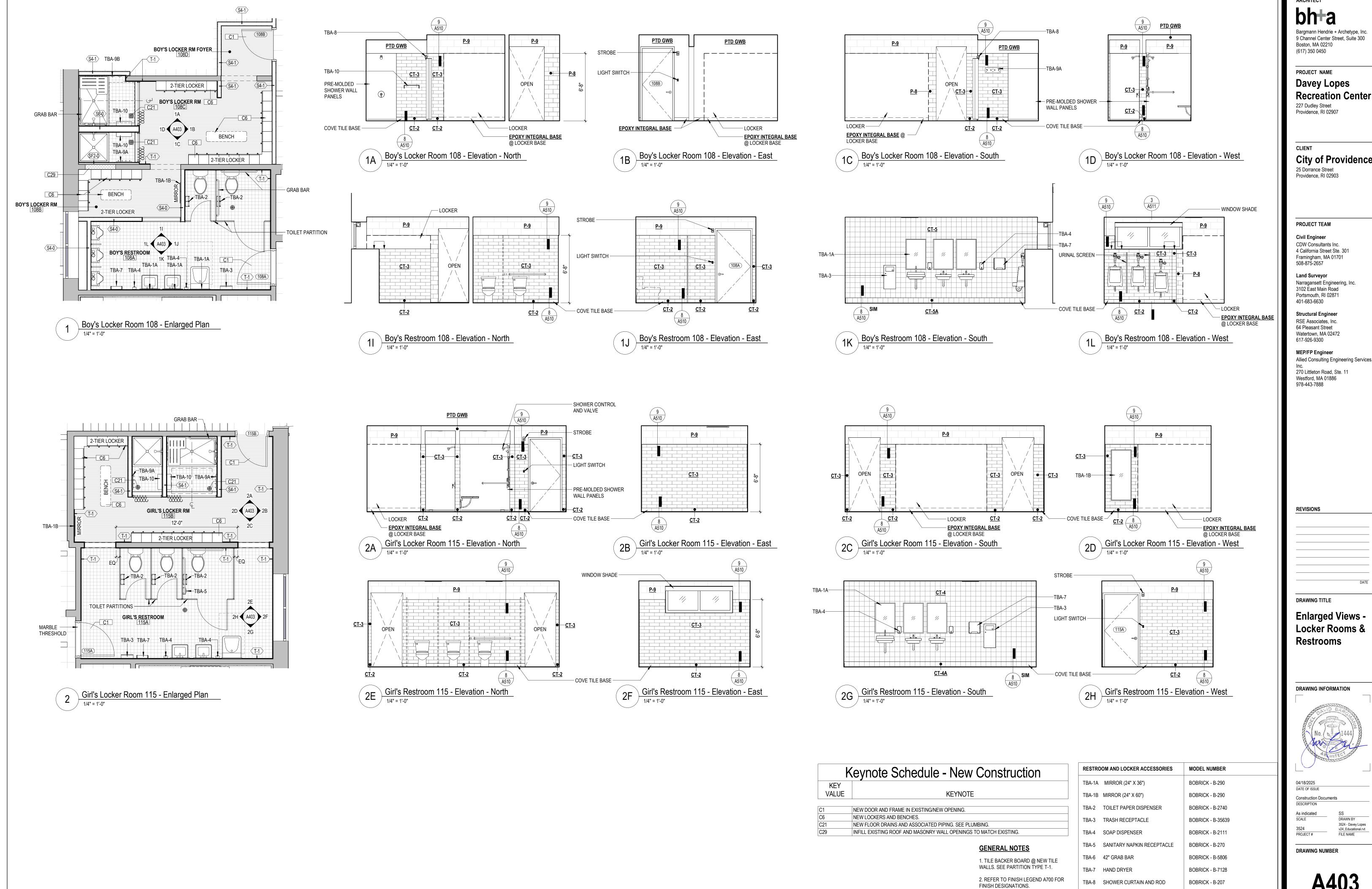
MEP/FP Engineer Allied Consulting Engineering Services,

Enlarged Views -Multi-Purpose

DRAWING INFORMATION



DRAWING NUMBER



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Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME **Davey Lopes**

City of Providence 25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer Allied Consulting Engineering Services 270 Littleton Road, Ste. 11 Westford, MA 01886

Enlarged Views -Locker Rooms & Restrooms

DRAWING INFORMATION



DATE OF ISSUE

Construction Documents DESCRIPTION

> 3524 - Davey Lopes PROJECT# FILE NAME

DRAWING NUMBER

TBA-9A HOOK STRIP

TBA-9B TOWEL HOOK (SINGULAR)

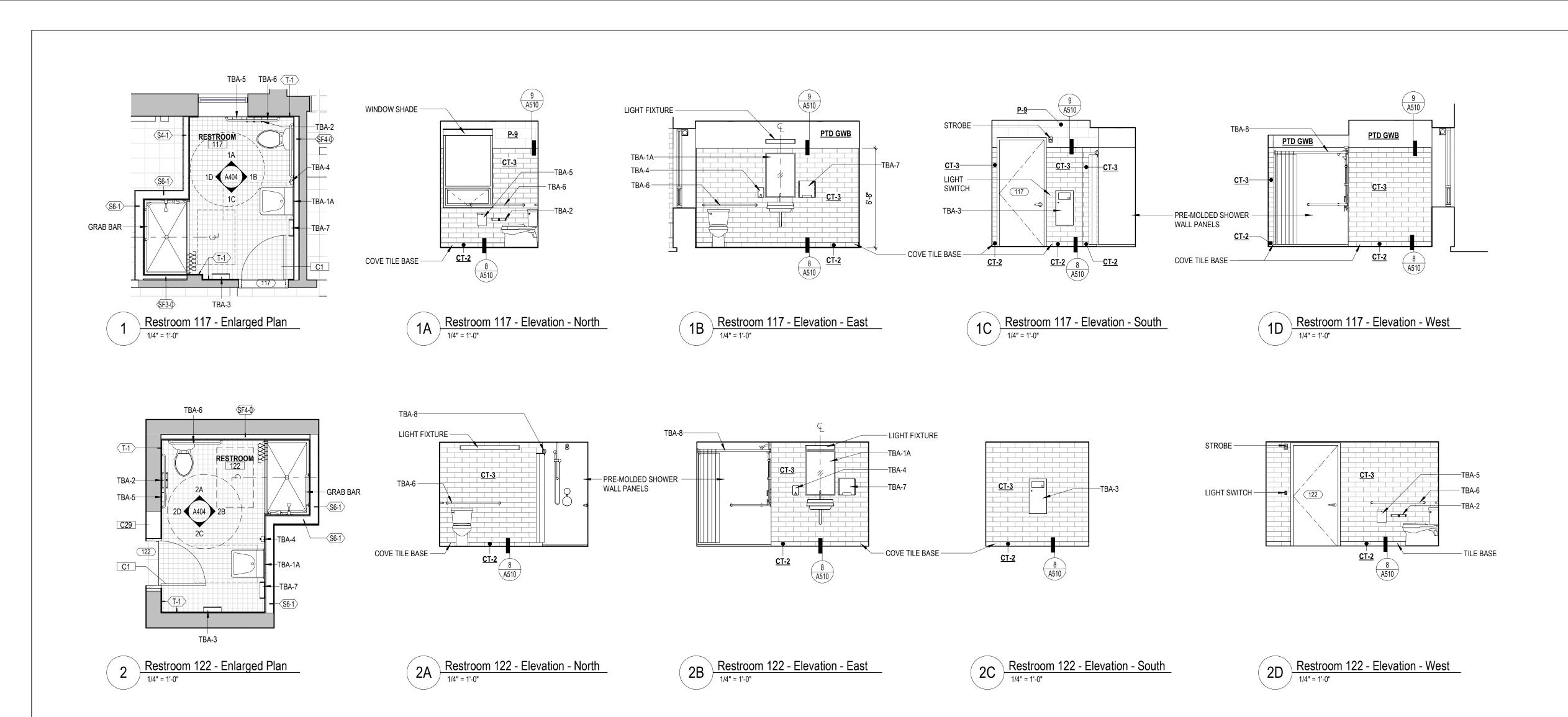
TBA-10 STAINLESS STEEL SHELF

BRADLEY - SA41

BRADLEY - SA35

BRADLEY - 9094-18

A403



RESTROOM AND LOCKER ACCESSORIES		MODEL NUMBER
TBA-1A	MIRROR (24" X 36")	BOBRICK - B-290
TBA-1B	MIRROR (24" X 60")	BOBRICK - B-290
TBA-2	TOILET PAPER DISPENSER	BOBRICK - B-2740
TBA-3	TRASH RECEPTACLE	BOBRICK - B-35639
TBA-4	SOAP DISPENSER	BOBRICK - B-2111
TBA-5	SANITARY NAPKIN RECEPTACLE	BOBRICK - B-270
TBA-6	42" GRAB BAR	BOBRICK - B-5806
TBA-7	HAND DRYER	BOBRICK - B-7128
TBA-8	SHOWER CURTAIN AND ROD	BOBRICK - B-207
TBA-9A	HOOK STRIP	BRADLEY - SA41
TBA-9B	TOWEL HOOK (SINGULAR)	BRADLEY - SA35
TBA-10	STAINLESS STEEL SHELF	BRADLEY - 9094-18

Keynote Schedule - New Construction		
KEY		
VALUE	KEYNOTE	

NEW DOOR AND FRAME IN EXISTING/NEW OPENING. INFILL EXISTING ROOF AND MASONRY WALL OPENINGS TO MATCH EXISTING. Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450 PROJECT NAME Davey Lopes

bh+a

Recreation Center 227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300

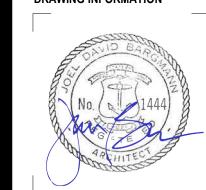
Westford, MA 01886 978-443-7888

MEP/FP Engineer Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

REVISIONS

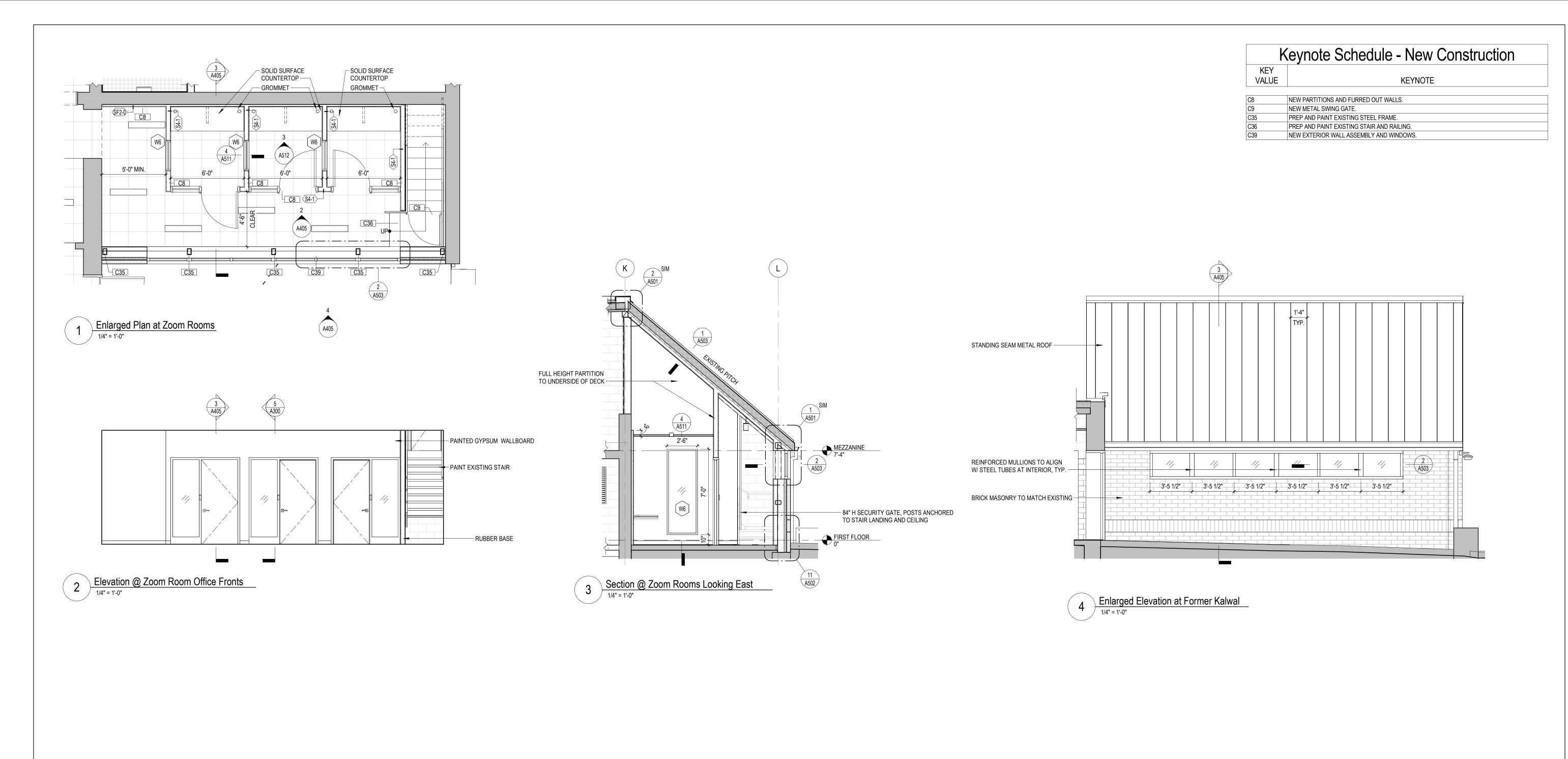
DRAWING TITLE **Enlarged Views -**Restrooms

DRAWING INFORMATION



DATE OF ISSUE

DRAWING NUMBER



bh+a Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450 PROJECT NAME **Davey Lopes**

Recreation Center 227 Dudley Street Providence, RI 02907

City of Providence 25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

401-683-6630 Structural Engineer RSE Associates, Inc. 64 Pleasant Street

Watertown, MA 02472 617-926-9300

MEP/FP Engineer Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

DRAWING TITLE

Enlarged Views -Zoom Rooms &

DRAWING INFORMATION



DRAWING NUMBER

architect bh-

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes

Recreation Center

227 Dudley Street

Providence, RI 02907

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer
CDW Consultants Inc.
4 California Street Ste. 301
Framingham, MA 01701
508-875-2657

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer
RSE Associates, Inc.
64 Pleasant Street
Watertown, MA 02472
617-926-9300

MEP/FP Engineer

Allied Consulting Engineering Services, Inc. 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

REVISIONS

DRAWING TITLE

Exterior Details

DRAWING INFORMATION



04/18/2025 DATE OF ISSUE

DATE OF ISSUE

Construction Documents

DESCRIPTION

 As indicated
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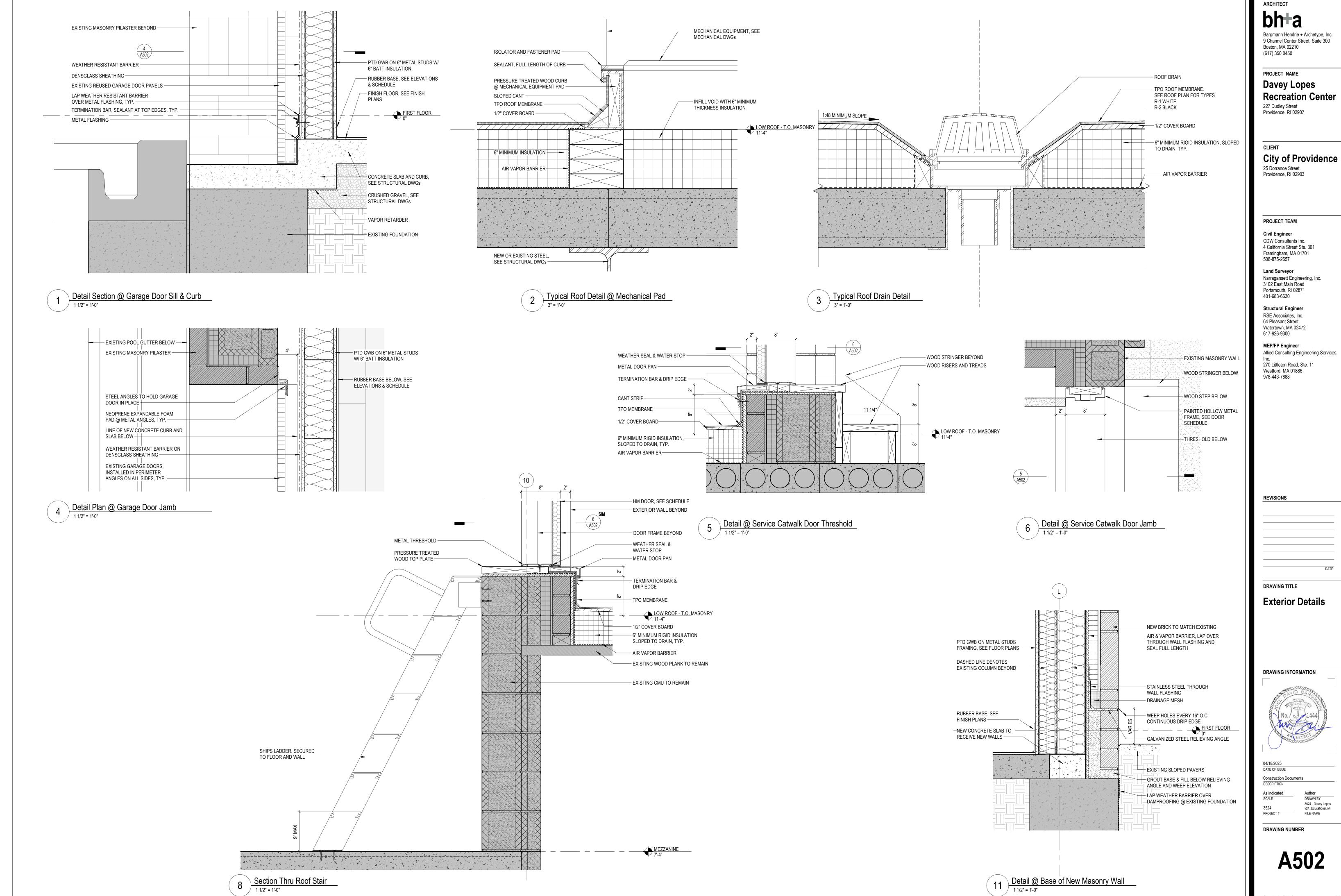
 SCALE
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 3524
 v24

PROJECT# FILE NAME

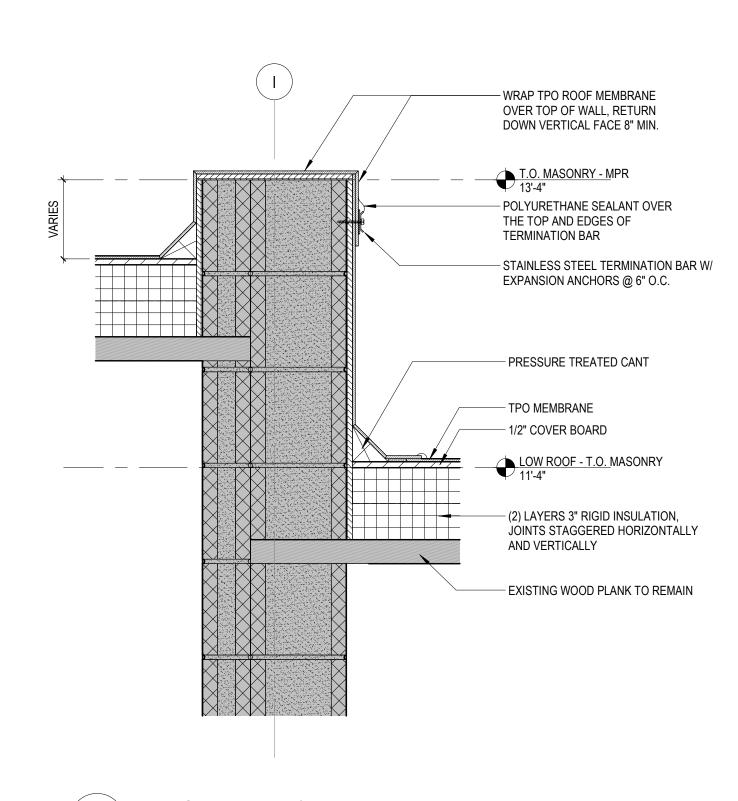
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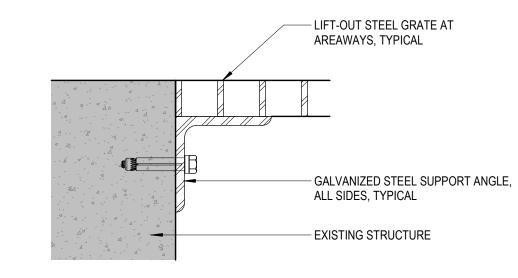




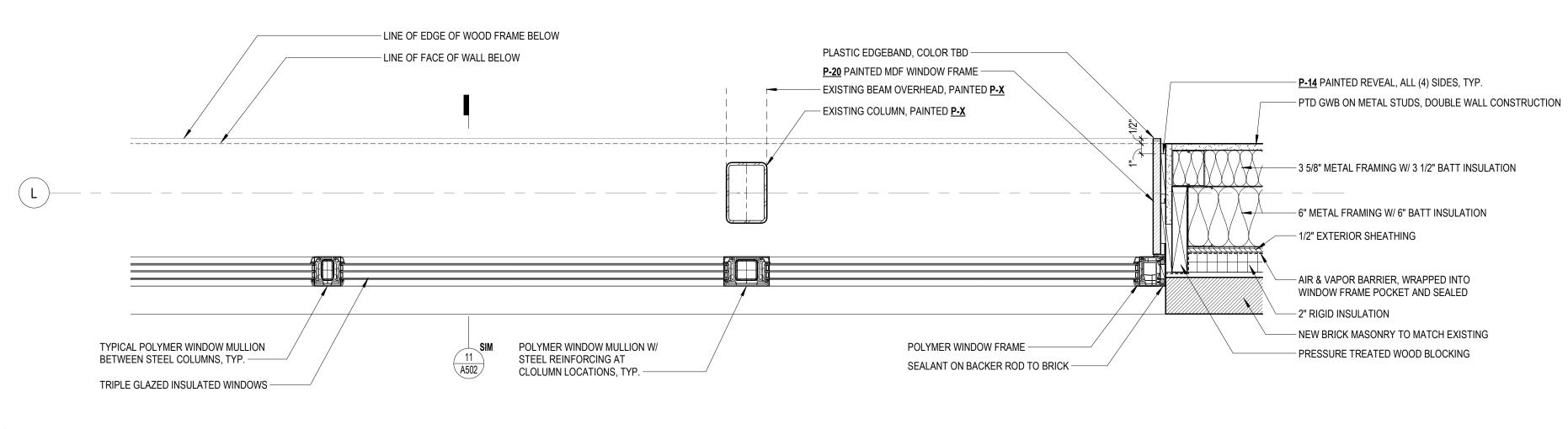
Section Through Edge of Sloped Roof



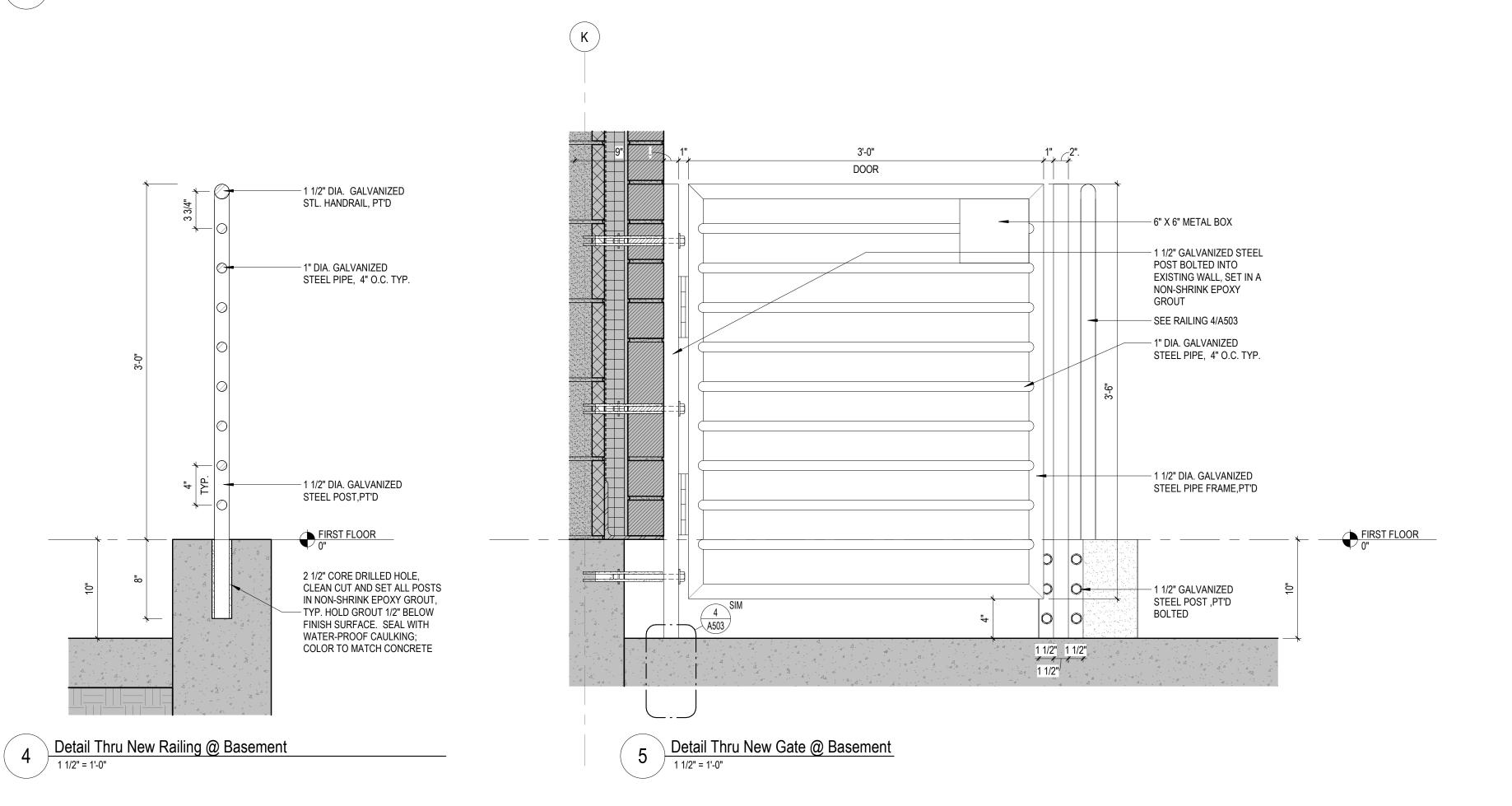
3 Detail @ Parapet Roof Wall



6 Detail @ Typical Grate Support



Jamb Detail at Zoom Corridor Windows



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> PROJECT NAME Davey Lopes **Recreation Center**

227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

401-683-6630 Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300 MEP/FP Engineer

978-443-7888

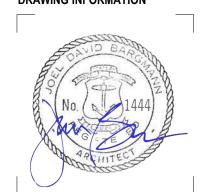
Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886

REVISIONS

DRAWING TITLE

Exterior Details

DRAWING INFORMATION



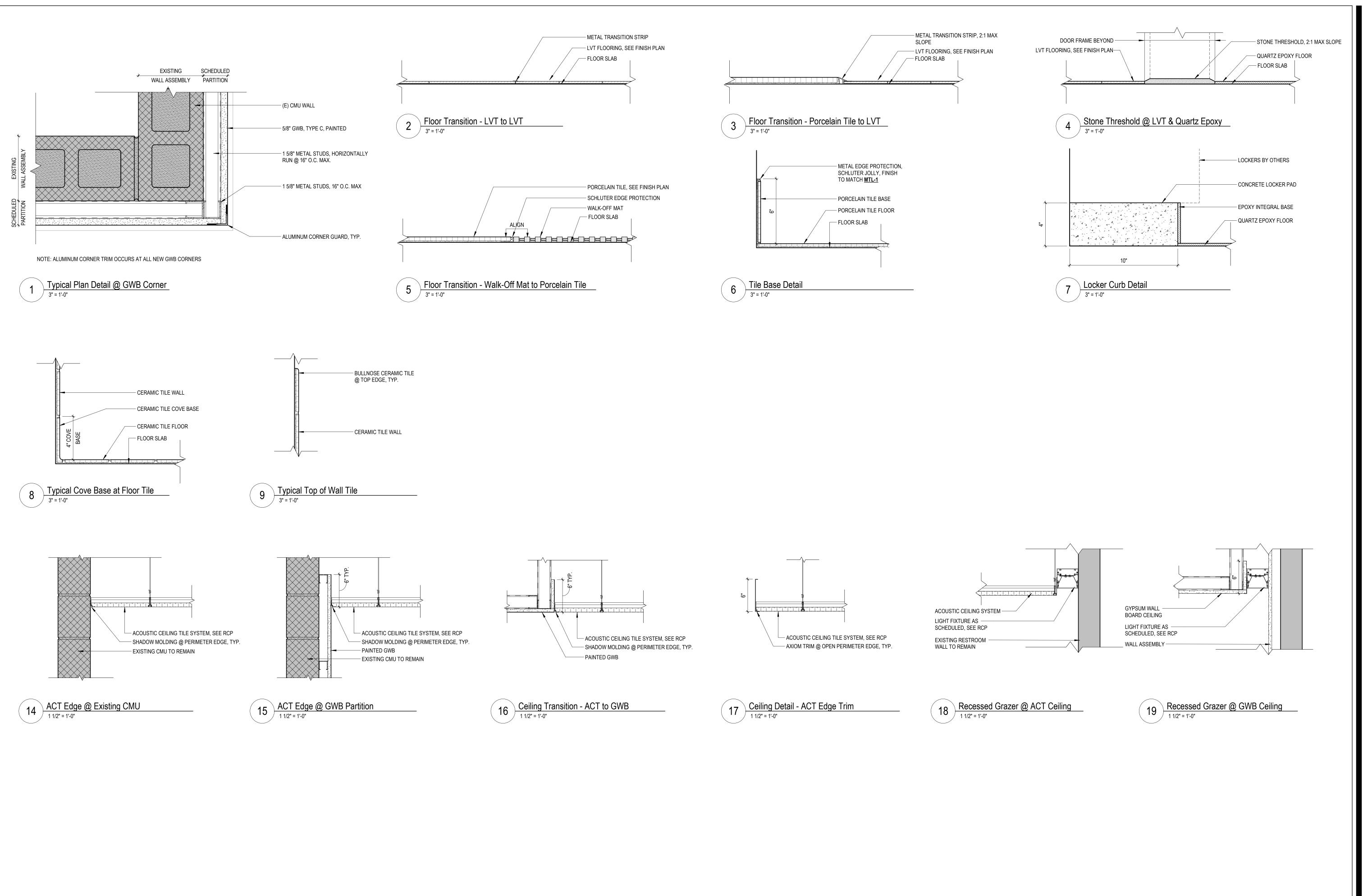
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Construction Documents DESCRIPTION As indicated

3524 - Davey Lopes PROJECT#

DRAWING NUMBER

A503



bh+a Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450 PROJECT NAME Davey Lopes **Recreation Center** 227 Dudley Street Providence, RI 02907 **City of Providence** 25 Dorrance Street Providence, RI 02903 PROJECT TEAM Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657 Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630 Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300 MEP/FP Engineer Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

REVISIONS

DRAWING TITLE

Interior Details -Typical

DRAWING INFORMATION



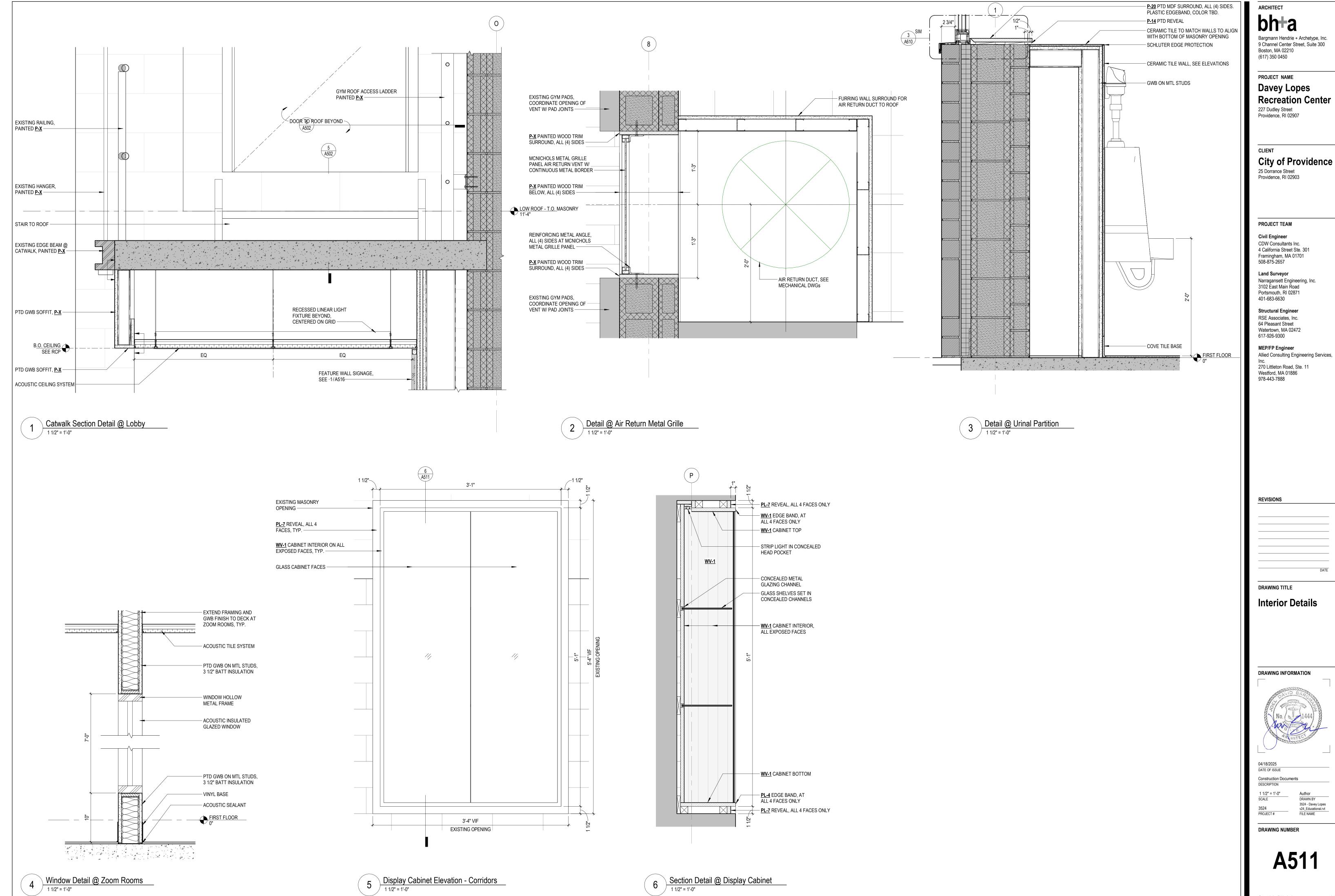
04/18/2025 DATE OF ISSUE

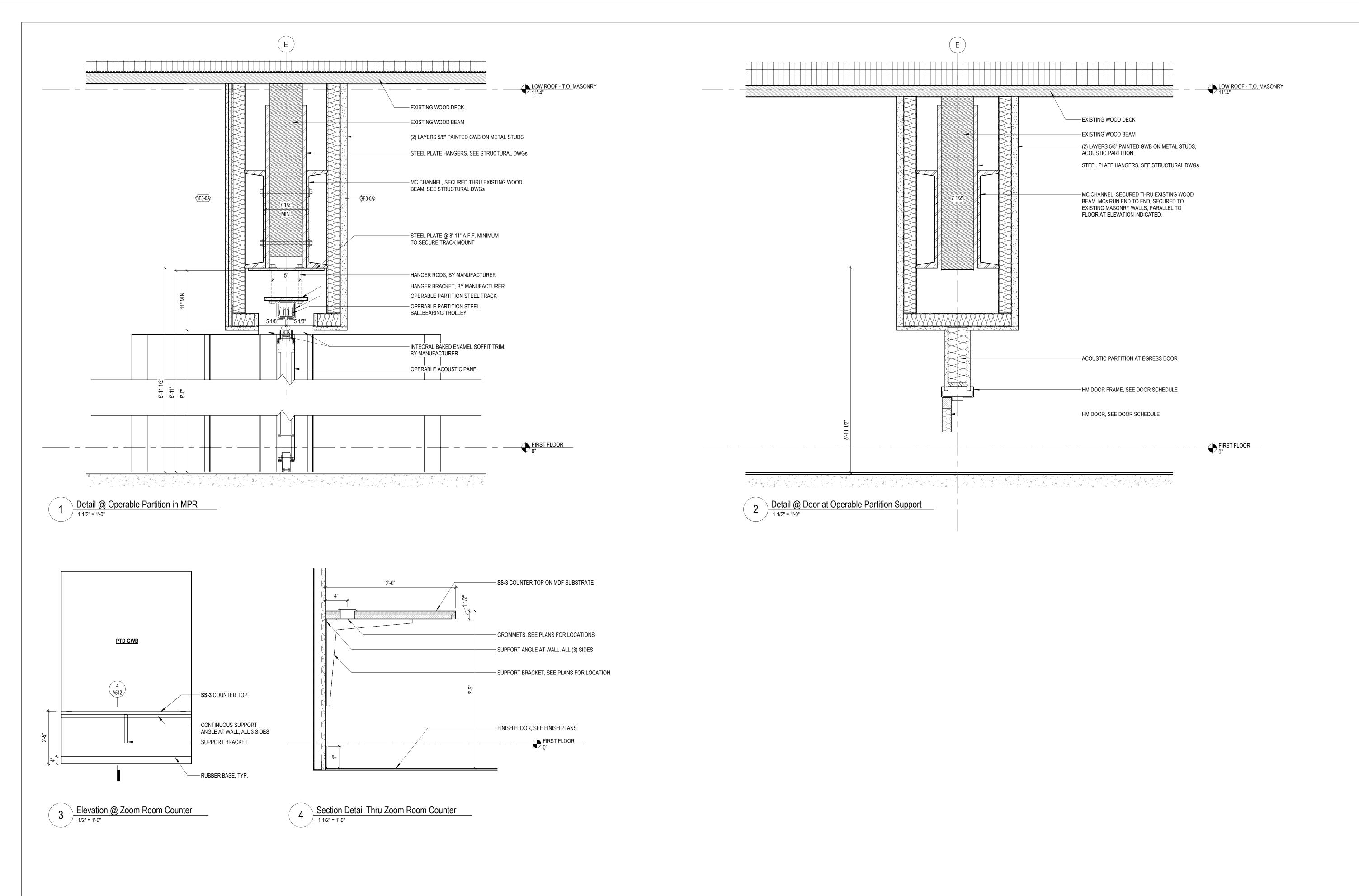
Construction Documents

DESCRIPTION

DRAWING NUMBER

A510





bh+a Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450 PROJECT NAME Davey Lopes **Recreation Center** 227 Dudley Street Providence, RI 02907 **City of Providence** 25 Dorrance Street Providence, RI 02903 PROJECT TEAM Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657 Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630 Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300 MEP/FP Engineer Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888 REVISIONS

DRAWING TITLE

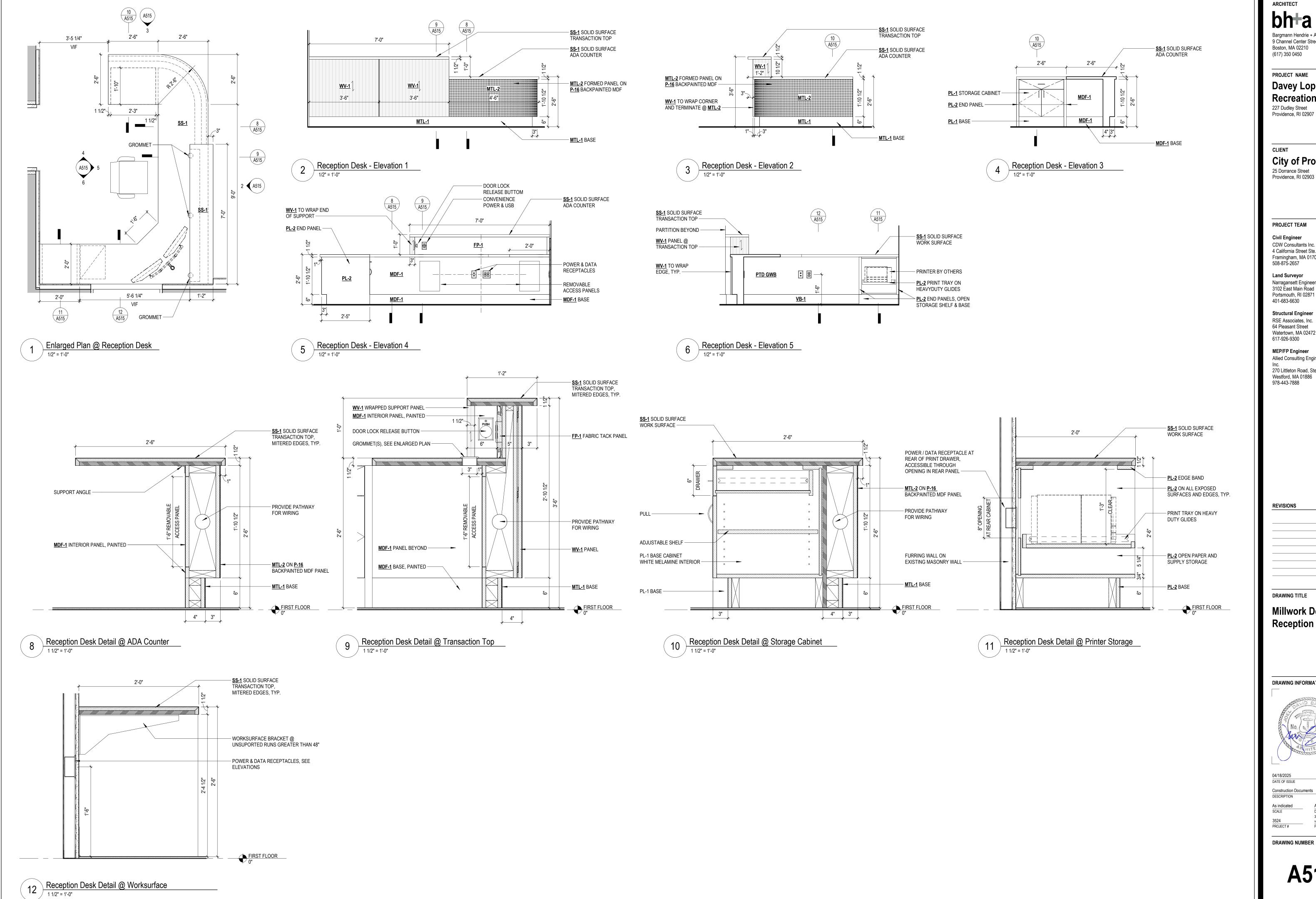
Interior Details

DRAWING INFORMATION



DATE OF ISSUE

DRAWING NUMBER



ARCHITECT bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

Boston, MA 02210 (617) 350 0450

PROJECT NAME Davey Lopes **Recreation Center**

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300 MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

REVISIONS

Millwork Details -**Reception Desk**

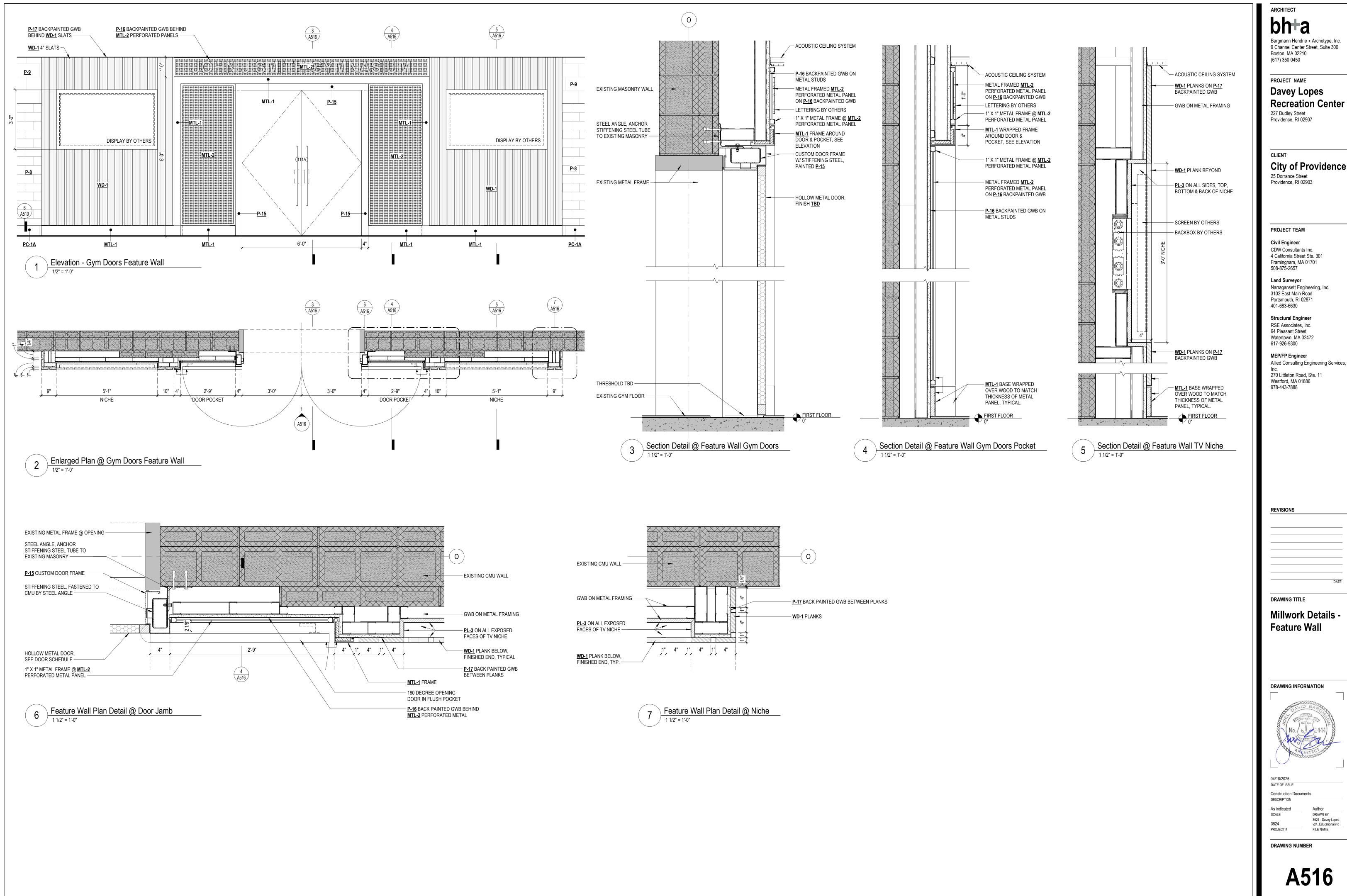
DRAWING INFORMATION



DATE OF ISSUE

Construction Documents DESCRIPTION

A515



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PROJECT NAME Davey Lopes

City of Providence

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

MEP/FP Engineer Allied Consulting Engineering Services,

270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

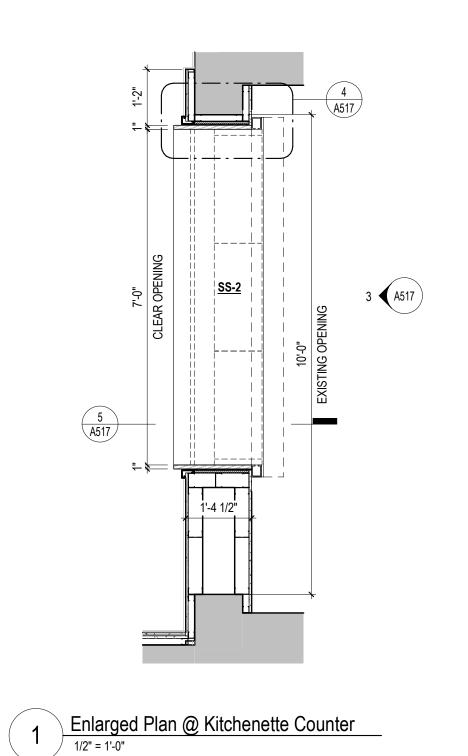
REVISIONS

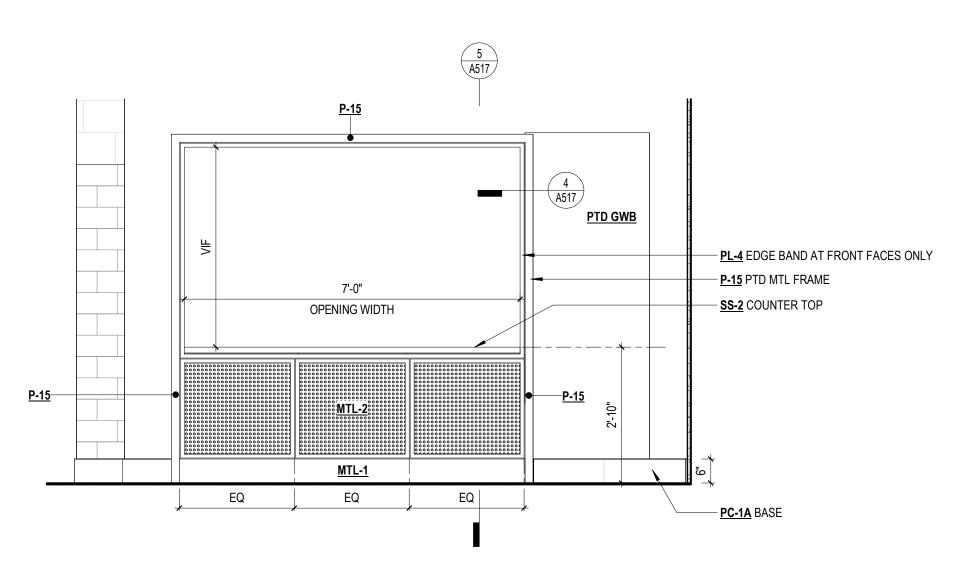
Millwork Details -**Feature Wall**

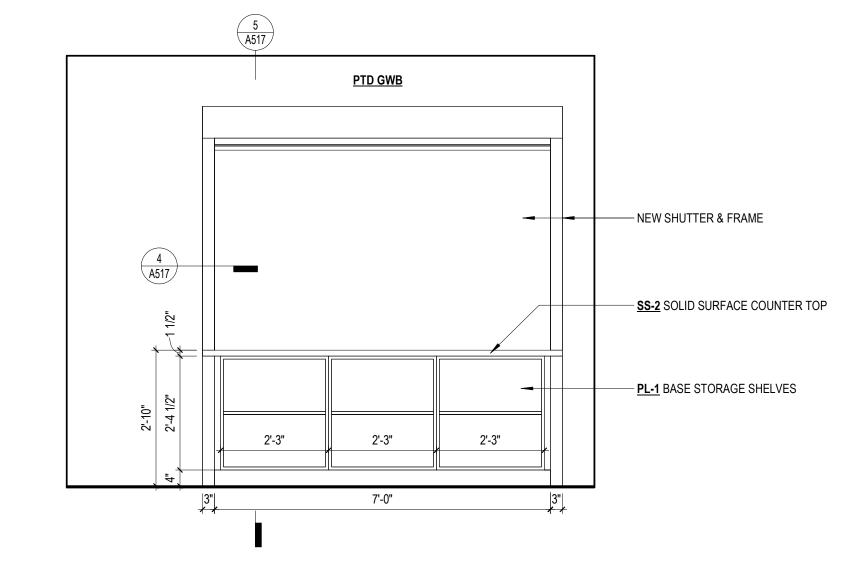
DRAWING INFORMATION



DATE OF ISSUE Construction Documents





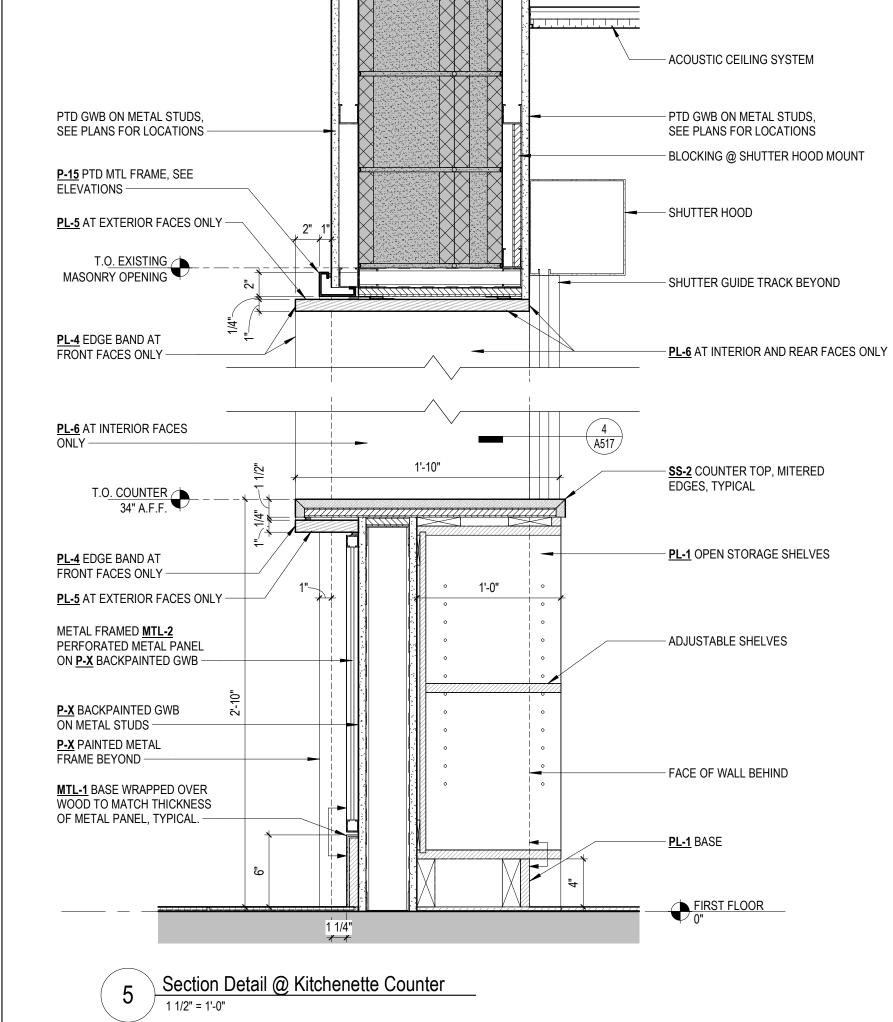


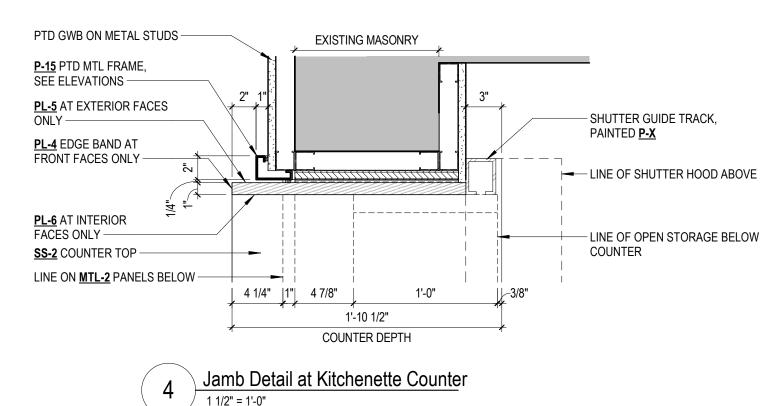
Kitchenette 104 - Vending Elevation 1

1/2" = 1'-0"

Kitchenette 104 - Vending Elevation 2

1/2" = 1'-0"





bh+a Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450 PROJECT NAME Davey Lopes **Recreation Center** 227 Dudley Street Providence, RI 02907 **City of Providence** 25 Dorrance Street Providence, RI 02903 PROJECT TEAM Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657 Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630 Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300 MEP/FP Engineer Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888 REVISIONS DRAWING TITLE

Millwork Details -Kitchenette

DRAWING INFORMATION



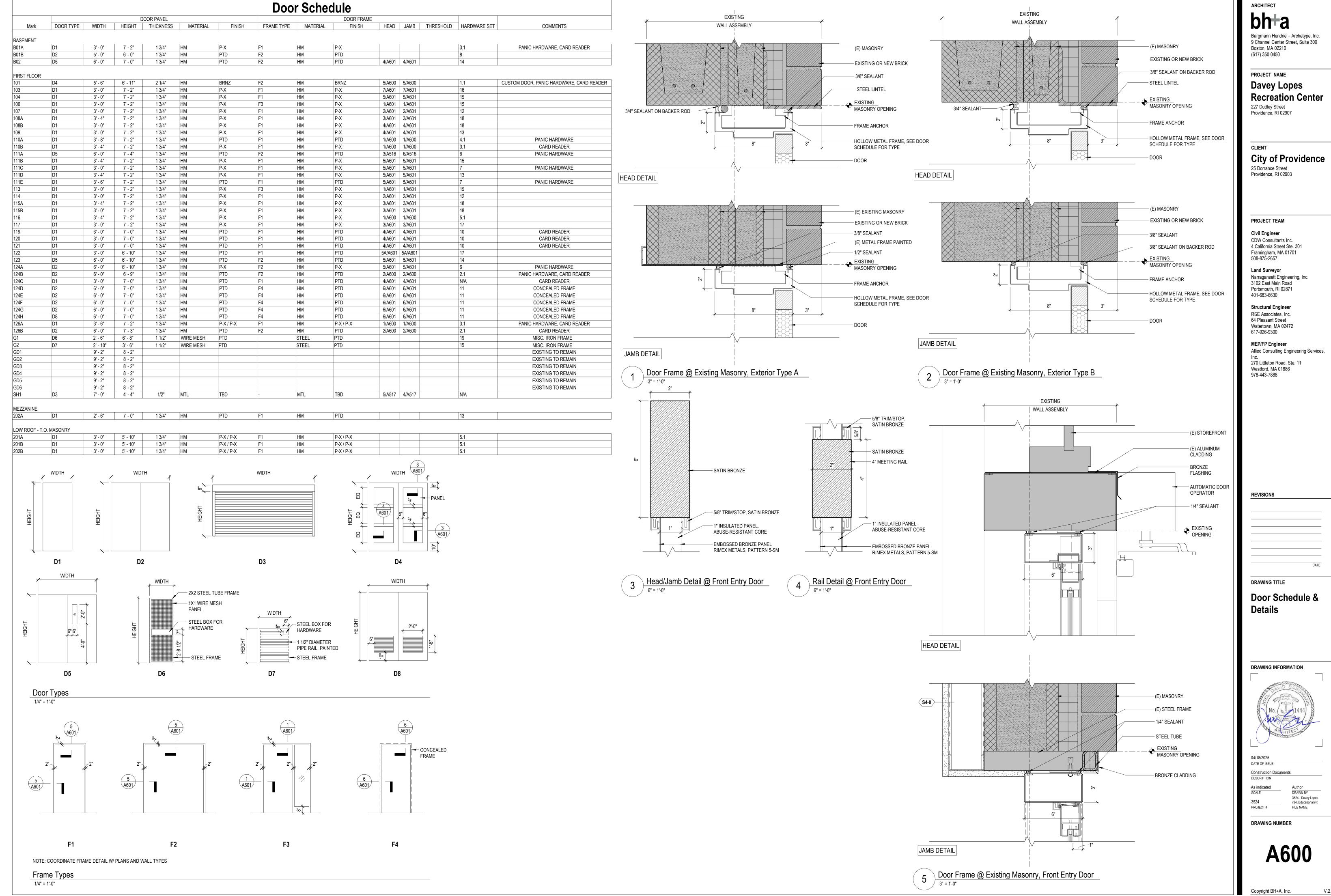
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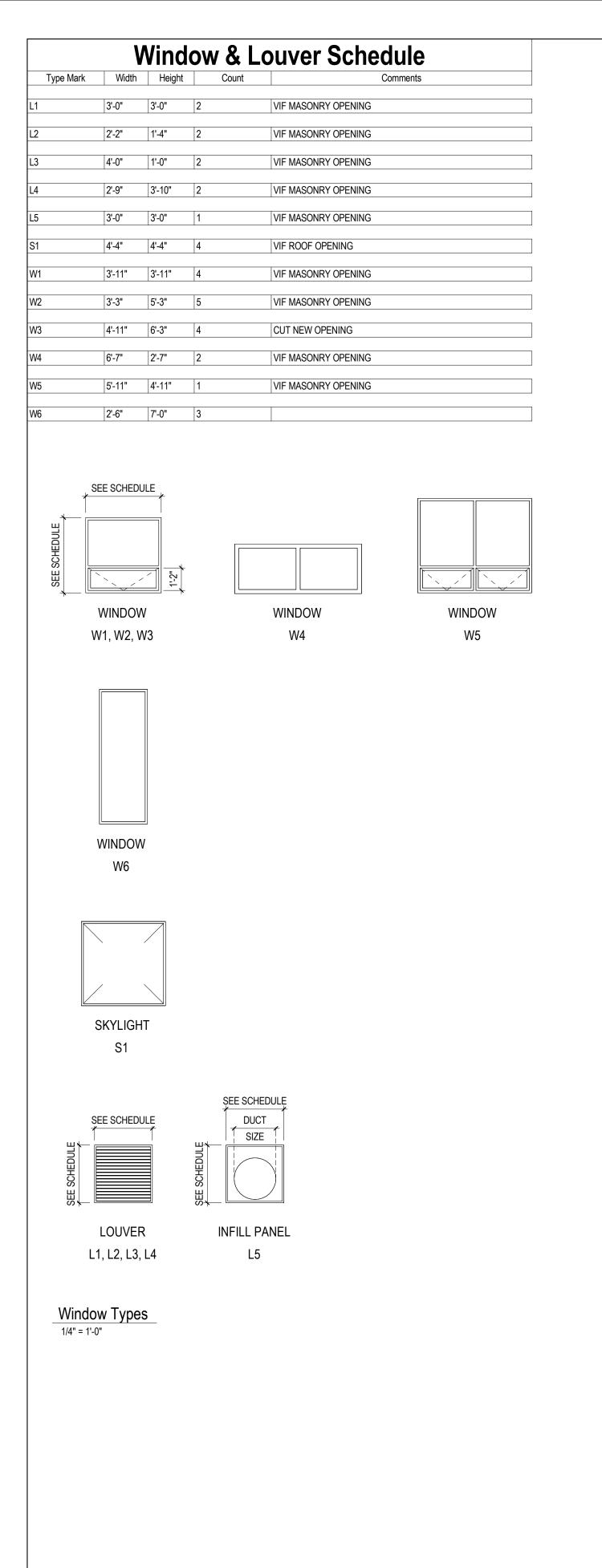
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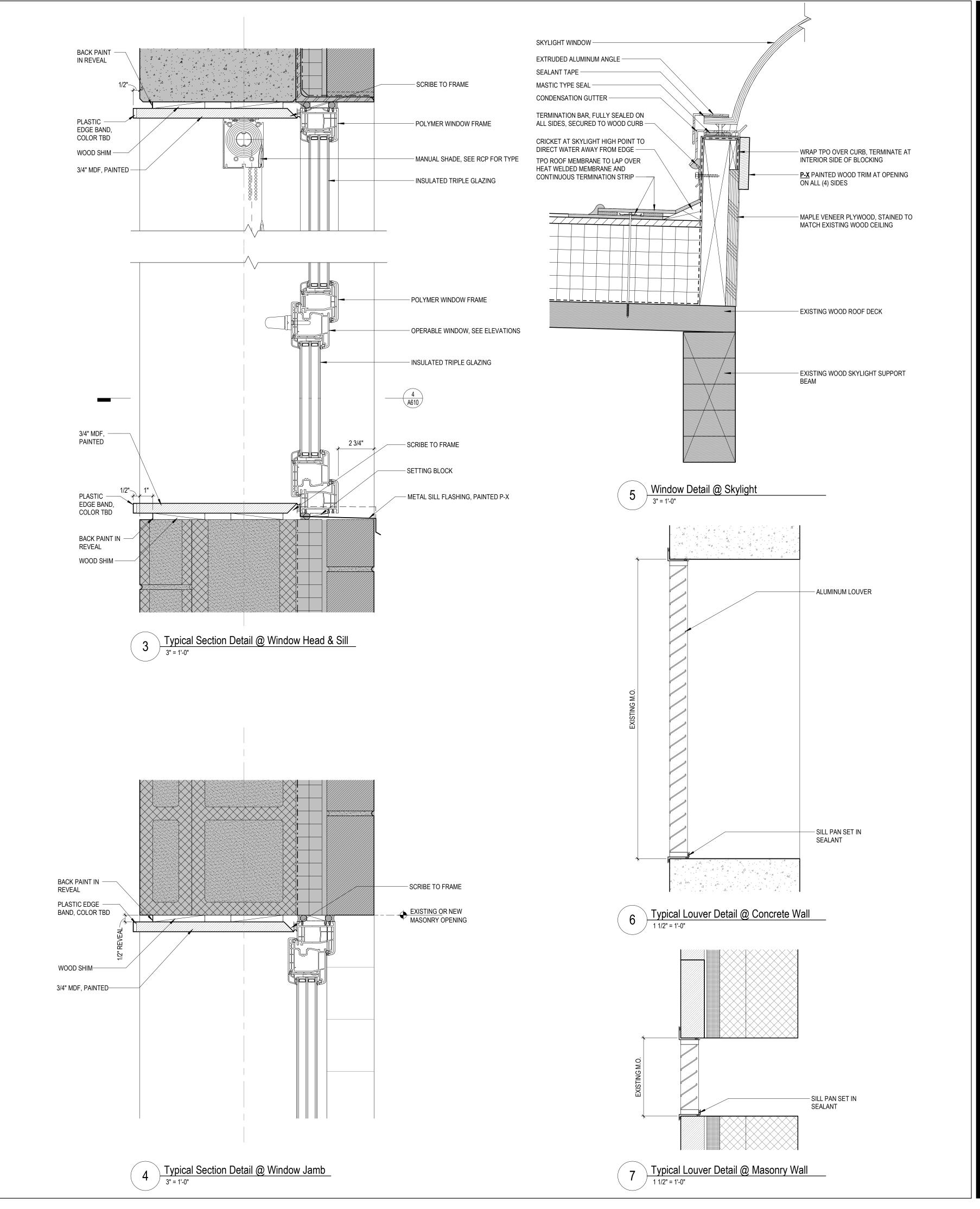
PROJECT#

DRAWING NUMBER

A517







architect bh-a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes

Recreation Center

..._

Providence, RI 02903

227 Dudley Street Providence, RI 02907

City of Providence
25 Dorrance Street

PROJECT TEAM

Civil Engineer
CDW Consultants Inc.
4 California Street Ste. 301
Framingham, MA 01701
508-875-2657

Land Surveyor
Narragansett Engineering, Inc.
3102 East Main Road
Portsmouth, RI 02871
401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

Westford, MA 01886

978-443-7888

MEP/FP Engineer
Allied Consulting Engineering Services,
Inc.
270 Littleton Road, Ste. 11

REVISIONS

Window Schedule & Details

DRAWING INFORMATION



04/18/2025 DATE OF ISSUE

DATE OF ISSUE

Construction Documents
DESCRIPTION

IPTION

icated Author

DRAWN BY

3524 - Dave

v24_Educati

DRAWING NUMBER

A610

NOTES MARBLE THRESHOLD **ACT-1:** 24X24 ACOUSTIC TILE, SQUARE TEGULAR EDGE, 9/16" REVEAL GRID ACT-2: 24X24 ACOUSTIC TILE, WASHABLE, TAPERED TEGULAR EDGE, 9/16" GRID WV-1: WOOD VENEER - RIFT SLICED, WHITE OAK WD-1: SOLID WOOD - RIFT SLICED, WHITE OAK OPEN FINISH, SHEEN 50, STAINED TO MATCH WV-1 LOCATION: BASES AT RECEPTION DESK, FEATURE WALL AND KITCHENETTE MTL-2: MCNICHOLS - PERFORATED METAL, STAINLESS STEEL, 1/4" ROUND ON 3/8" STG CTRS, 60 DEGREE STAGGERED CENTERS, 40% OPEN LOCATION: RECEPTION DESK, FEATURE WALL AND KITCHENETTE LOCATION: PORTAL FRAMES AT FEATURE WALL AND KITCHENETTE LOCATION: RECEPTION DESK, KITCHENETTE BASE CABINETS LOCATION: RECEPTION DESK PANELS LOCATION: FEATURE WALL TV NICHES LOCATION: KITCHENETTE SURROUND EDGE BAND LOCATION: KITCHENETTE SURROUND OUTSIDE SURFACES LOCATION: KITCHENETTE SURROUND INSIDE SURFACES LOCATION: REVEAL AT DISPLAY CABINETS EGGSHELL FINISH ON GWB WALLS. SEMI-GLOSS ON TRIM AND DOORS AND FRAMES TO RECEIVE PAINT. RB-3: TARKETT PC-1: DALTILE 4" RUBBER BASE, COVE PROFILE 12X24 PORCELAIN FLOOR TILE VOLUME 1.0 - TRUFFLE LOCATION: STORAGE, JANITOR CLOSETS, KITCHENETTE PC-1A: DALTILE 6 X12 PORCELAIN BASE COVE BASE

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

227 Dudley Street

Providence, RI 02907

Davey Lopes **Recreation Center**

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

Westford, MA 01886

978-443-7888

REVISIONS

DRAWING TITLE

Room Finish Legend & Schedule

DRAWING INFORMATION



04/18/2025 DATE OF ISSUE

Construction Documents DESCRIPTION

DRAWN BY 3524 - Davey Lopes PROJECT#

FILE NAME DRAWING NUMBER

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

Recreation Center

City of Providence

4 California Street Ste. 301 Framingham, MA 01701

Narragansett Engineering, Inc. 3102 East Main Road

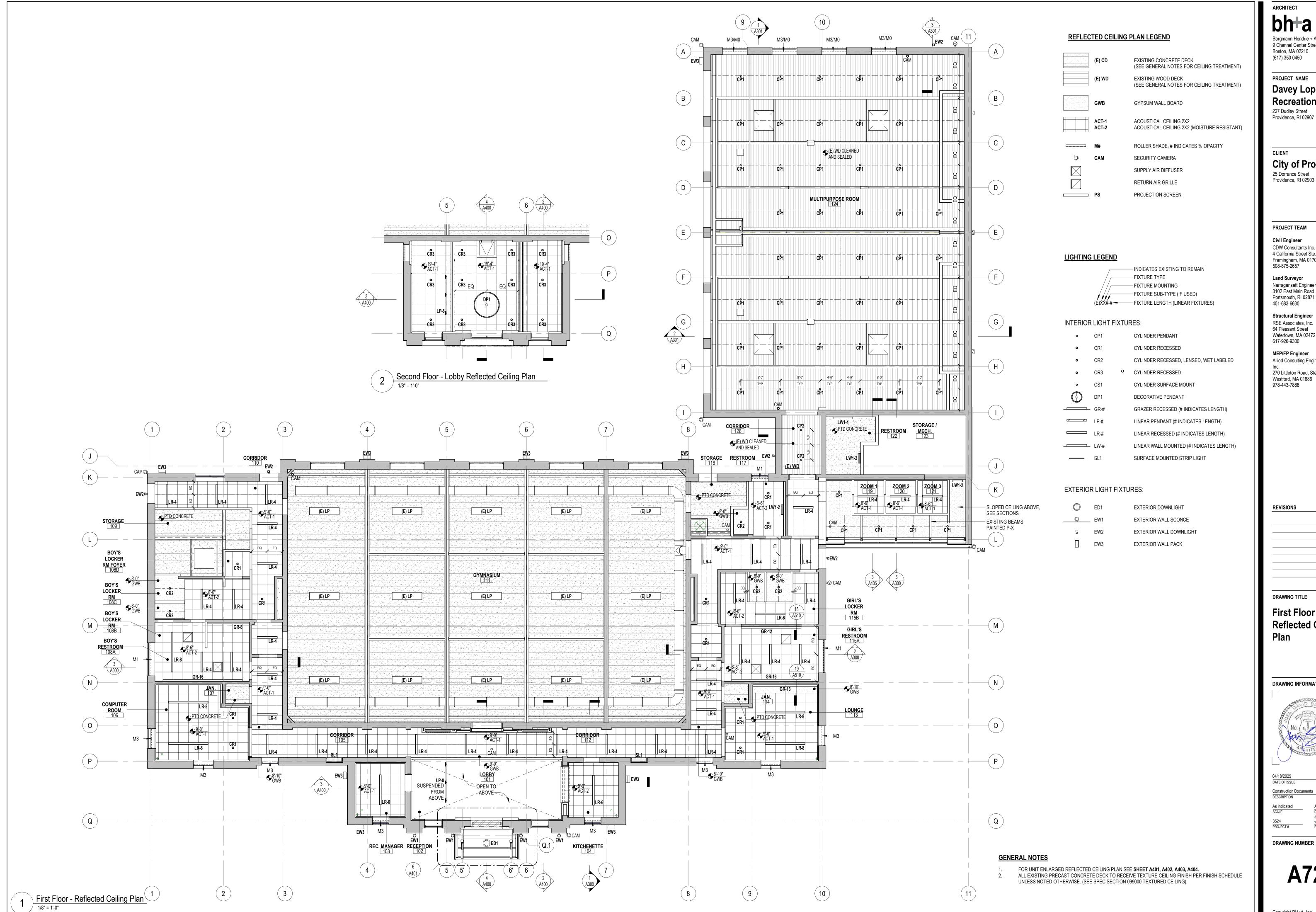
Allied Consulting Engineering Services,

First Floor Finish

DRAWING INFORMATION



A701



bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210

> PROJECT NAME **Davey Lopes Recreation Center** 227 Dudley Street

City of Providence 25 Dorrance Street

PROJECT TEAM

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300 MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

REVISIONS

DRAWING TITLE

First Floor Reflected Ceiling

DRAWING INFORMATION

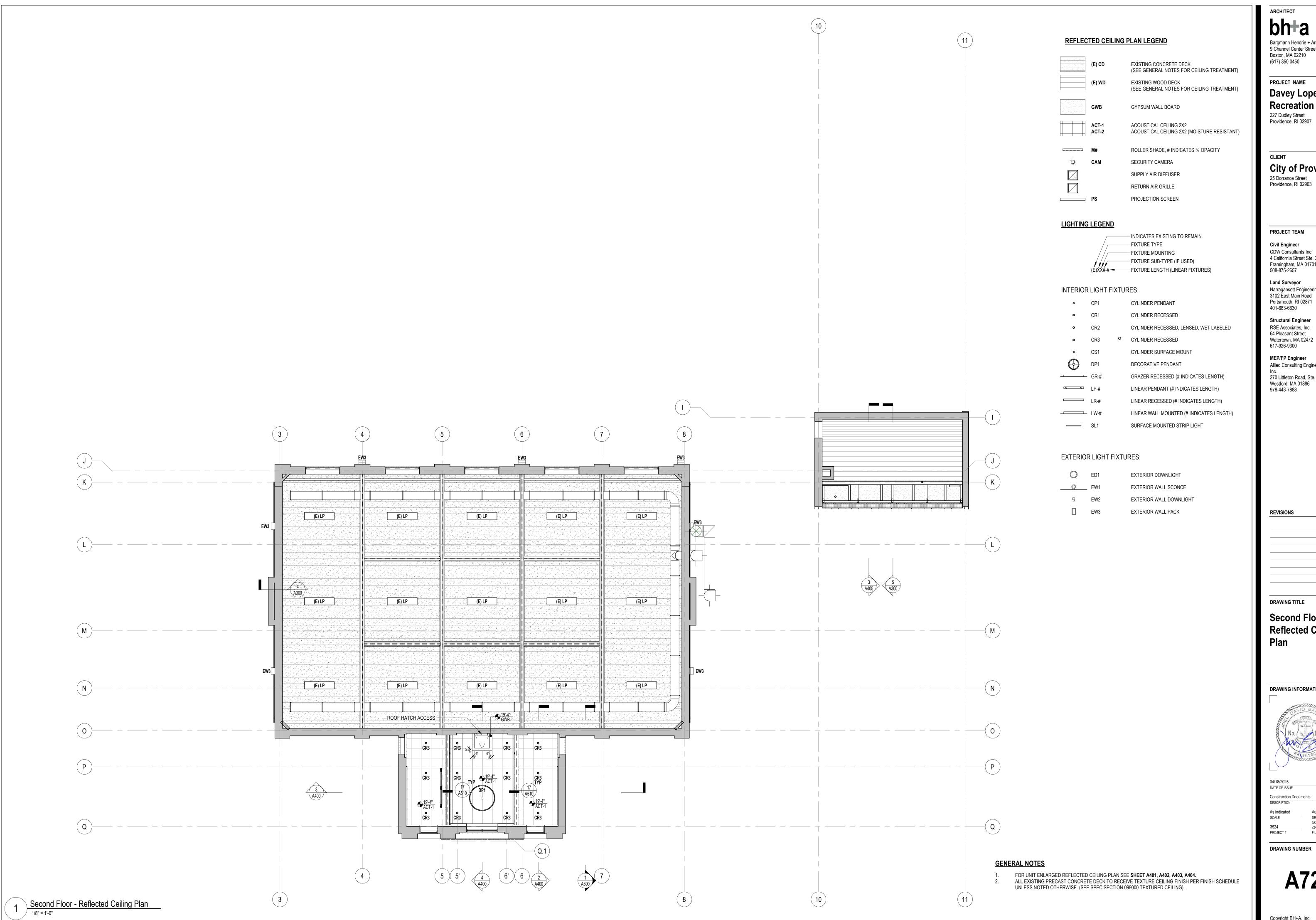


04/18/2025 DATE OF ISSUE

Construction Documents DESCRIPTION

PROJECT# FILE NAME

DRAWING NUMBER



bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

> PROJECT NAME Davey Lopes **Recreation Center**

City of Providence 25 Dorrance Street

PROJECT TEAM

Civil Engineer CDW Consultants Inc. 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

401-683-6630 Structural Engineer RSE Associates, Inc.

64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

DRAWING TITLE

Second Floor **Reflected Ceiling**

DRAWING INFORMATION



DATE OF ISSUE

Construction Documents

DRAWING NUMBER

2. THE CONTRACTOR SHALL COMPARE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE

WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF THE EXISTING STRUCTURE, OR FABRICATION OR ERECTION OF

NEW STRUCTURAL ELEMENTS SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER.

B. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, INSERTS, ETC. EXCEPT AS SHOWN.

A. PIPE AND DUCT RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC. EXCEPT AS SHOWN OR

D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS, EXCEPT AS SHOWN

8. OPENING, POCKETS, ETC. LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, OR WALLS UNLESS

9. ALL MECHANICAL SYSTEMS SUSPENDED LOADS EXCEEDING 100 POUNDS SHALL BE REVIEWED BY THE STRUCTURAL

SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY

OTHERS SHOW OPENINGS, POCKETS, ETC LARGER THAN 6" WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS,

30 PSF

30 PSF

124 MPH

+0.18

27 PSF

+11.3/-27.7 PSF

+11.3/-46.4 PSF

+11.3/-69.9 PSF

+11.3/-44.1 PSF

+11.3/-69.9 PSF

+27.7/-30.0 PSF

+27.7/-37.0 PSF

* PROVIDED VALUES INDICATE ULTIMATE WIND PRESSURES (1.0 WL) IN ACCORDANCE WITH ASCE 7 CHAPTER 30.

12. THE OWNER WILL RETAIN AN INDEPENDENT TESTING AGENCY TO INSPECT THE FOLLOWING TYPES OF WORK. SEE THE

PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. THE INDEPENDENT INSPECTOR HAS THE AUTHORITY TO

REJECT MATERIALS NOT CONFORMING TO SPECIFICATIONS. THIS DOES NOT RELIEVE THE CONTRACTOR'S REQUIREMENT TO PROVIDE MATERIALS AND WORK CONFORMING TO THE CONTRACT DOCUMENTS.

C. ALL STRUCTURAL STEEL WELDING AND HIGH STRENGTH BOLTING (EXCEPT METAL STUDS, FURRING, ETC.)

3. THE FOLLOWING SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL (RDP) NOT UNDER THE CONTROL OF

THE STRUCTURAL ENGINEER OF RECORD (SER) AND SUBMITTED FOR REVIEW WITH CALCULATIONS PREPARED,

C. STRUCTURAL STEEL CONNECTIONS NOT FULLY DETAILED IN CONTRACT DRAWINGS (SHEAR CONNECTIONS,

STRUCTURAL DRAWINGS PROVIDED BY SER SUBMITTED FOR PERMIT DO NOT INCLUDE DESIGN OF THE SYSTEMS

A. UNLESS OTHERWISE SPECIFIED IN THE MEP CONSULTANT'S CONTRACT DOCUMENTS, DESIGN AND INSTALLATION

OF SEISMIC BRACING FOR NON-STRUCTURAL COMPONENTS SHALL BE DELEGATED DESIGN BY THE CONTRACTOR

C. MECHANICAL AND ELECTRICAL COMPONENTS ARE EXEMPT FROM SEISMIC BRACING IN SEISMIC DESIGN CATEGORY

STAMPED, AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT'S STATE:

MULTIPLY VALUES BY 0.6 FOR ALLOWABLE (SERVICE) LEVEL WIND PRESSURES.

11. SEE ARCHITECTURAL DRAWINGS FOR WATERPROOFING AND DAMPPROOFING DETAILS.

A. SUBGRADE, INCLUDING SOLID PREPARATION, COMPACTION AND BEARING CAPACITY

D. INSTALLATION OF EXPANSION AND ADHESIVE ANCHORS

E. WIND BEARING OR LOAD BEARING LIGHT GAUGE METAL FRAMING

E. HAND RAILS, GUARDRAILS AND HALF WALLS SERVING AS SUCH.

14. SEISMIC BRACING OF NON-STRUCTURAL COMPONENTS

F. ALL OTHER SYSTEMS NOTED AS SUCH IN PROJECT SPECIFICATIONS.

OR SUBCONTRACTOR. REFER TO CHAPTER 13 OF ASCE-7 FOR REQUIREMENTS.

B. COMPONENT IMPORTANT FACTOR (IP) SHALL BE TAKEN FROM ASCE-7 13.1.3.

B. REFER TO ASCE-7 13.1.4 FOR ADDITIONAL EXEMPTIONS.

F. WHERE INDICATED ON THE DRAWINGS OR PROJECT SPECIFICATIONS.

1.0

BUILDING CODE

SUBJECT TO THE STRUCTURAL ENGINEER'S APPROVAL.

E. FINISHED FLOOR AND EXTERIOR ELEVATIONS.

BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS

D. FLOOR AND ROOF FINISHES.

G STAIR FRAMING AND DETAILS.

OR NOTED.

10. DESIGN BASIS:

SNOW LOAD

WIND LOAD

BASIC WIND SPEED.

EXPOSURE.

ROOF ZONE 1

ROOF ZONE 2

ROOF ZONE 3

WALL ZONE 4

WALL ZONE 5

B. ALL CONCRETE WORK

A. LIGHT GAUGE METAL SYSTEMS

MOMENT CONNECTIONS).

D. TEMPORARY SHORING WORK.

B. CURTAIN WALL

LISTED ABOVE.

SEISMIC LOAD

N/A

I/ OCCUPANCY CATEGORY.

MWFRS DESIGN LOAD..

DESIGN LOAD (10 SQ FT)*.

ROOF ZONE 2 OVERHANG

ROOF ZONE 3 OVERHANG

COMPONENTS AND CLADDING

INTERNAL PRESSURE COEFFICIENT......

6. SEE THE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

F. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

A. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON BEARING PARTITIONS.

C. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS EXCEPT AS SHOWN.

7. SEE THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:

C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES.

ENGINEER PRIOR TO INSTALLATION UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.

DESIGN IS IN ACCORDANCE WITH THE RISBC-1 RHODE ISLAND STATE BUILDING CODE

B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE PROPER SHORING AND BRACING WHEREVER NECESSARY. SHOP DRAWINGS FOR SUCH SHORING SHALL BE PREPARED BY A PROFESSIONAL ENGINEER RETAINED BY THE COMMENCING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES REQUIRING CONTRACTOR, IN ACCORDANCE WITH ALL APPLICABLE CURRENT RULES AND REGULATIONS. CLARIFICATION OR REVISIONS. DO NOT SCALE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR

3 CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING

3. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATIONS AND THE RISBC-1 RHODE ISLAND STATE AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH. 4. SHEETING, SHORING AND BRACING FOR THE LATERAL SUPPORT OF EXCAVATION SHALL REMAIN IN PLACE UNTIL ALL 4. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR THE ENGINEER'S APPROVAL FOR ALL PARTS OF PERMANENT STRUCTURAL SYSTEMS AT AND BELOW GROUND LEVEL ARE COMPLETE. FOR FURTHER INFORMATION ON THE WORK, INCLUDING A DESCRIPTION OF DEMOLITION, CONSTRUCTION METHODS, AND SEQUENCING WHERE LATERAL SUPPORT OF EXCAVATION, SEE SPECIFICATIONS. APPLICABLE. EXISTING FIELD CONDITIONS SHALL BE INCORPORATED INTO SUBMITTALS. NO PERFORMANCE OF THE

5. IN THE EVENT THAT CERTAIN DETAILS OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR NOTED ON THE DRAWINGS, THEIR CONSTRUCTION SHALL BE OF THE SAME TYPE AS FOR SIMILAR CONDITIONS WHICH ARE SHOWN AND NOTED, . NO PROJECT-SPECIFIC GEOTECHNICAL INVESTIGATION & REPORT HAS BEEN COMPLETED AT THIS TIME. EARTHWORK RECOMMENDATIONS REQUIRE A GEOTECHNICAL REPORT.

> 2. ALL EARTHWORKS INCLUDING EXCAVATION, FILLING, SUBGRADE PREPARATIONS, AND PROOF ROLLING EXISTING SUBGRADE SHALL BE IN ACCORDANCE WITH THE GENERAL NOTES, SPECIFICATIONS, AND PENDING GEOTECHNICAL

3. DO NOT PLACE BACKFILL BEHIND WALLS UNTIL CONCRETE HAS ATTAINED ITS FULL DESIGN STRENGTH. DO NOT BACKFILL WALLS BELOW GRADE UNTIL GROUND LEVEL FLOOR OR OTHER PERMANENT LATERAL SUPPORT SYSTEM IS COMPLETELY IN PLACE AND HAS ATTAINED 80 PERCENT OF FULL STRENGTH.

4. EXCAVATIONS BELOW FOOTINGS OF ALL TYPES AS WELL AS SLABS ON GRADE SHOULD BE MADE SO AS TO PROVIDE A CLEAN SMOOTH BEARING AREA OF UNDISTURBED SOIL. THE BOTTOM THREE INCHES OF EXCAVATIONS FOR FOOTINGS, PILE CAPS, AND GRADE BEAMS SHALL BE FINISHED BY HAND.

5. ALL BEARING SURFACES SHALL BE PROTECTED FROM CHANGES IN MOISTURE CONTENT IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

6. NO RESPONSIBILITY IS ASSUMED BY THE ARCHITECT FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS, SPECIFICATIONS, TEST BORINGS, OR TEST PITS. THIS DATA IS INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT CONDITIONS ONLY AT THESE SPECIFIC LOCATIONS AT THE PARTICULAR TIME THEY WERE MADE.

FOUNDATIONS

 NO PROJECT-SPECIFIC GEOTECHNICAL INVESTIGATION & REPORT HAS BEEN COMPLETED AT THIS TIME. FOR PRICING PURPOSES ONLY, FOUNDATION ENGINEERING HAS BEEN BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 4 KSF. SUBGRADE TO BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO POURING NEW FOUNDATIONS.

2. FOUNDATIONS ON THIS PROJECT CONSIST OF SPREAD FOOTINGS, BASEMENT AND FOUNDATION WALLS, AND SLAB ON

3. NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN SUBGRADE MATERIAL. WATER SHALL NOT BE ALLOWED TO STAND IN TRENCHES BEFORE OR AFTER CONCRETE IS PLACED. REFER TO GEOTECHNICAL REPORT

4. IF TRENCHES BECOME SOFTENED DUE TO RAIN OR OTHER WATER BEFORE THE FOOTINGS ARE CAST, THE CONTRACTOR SHALL EXCAVATE THE SOFTENED MATERIAL AND REPLACE WITH CONCRETE.

5. FOUNDATION UNITS SHALL BE CENTERED UNDER SUPPORTED STRUCTURAL MEMBER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

6. ALL EXCAVATIONS FOR FOUNDATIONS SHALL BE APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO

PLACING REINFORCEMENT AND CASTING CONCRETE. 7. BACKFILL UNDER ANY PORTION OF THE STRUCTURE SHALL BE COMPACTED IN 6 INCH LIFTS PER SPECIFICATION

REQUIREMENTS. 8. ALL SLAB ON GRADE AND FOOTING SUBGRADE LEVELS SHALL BE APPROVED BY OWNERS GEOTECHNICAL ENGINEER

9. EXTERIOR CONSTRUCTION SHALL BE CARRIED DOWN TO A MINIMUM DEPTH OF 3 FEET 4 INCHES BELOW FINISHED EXTERIOR GRADE UNLESS NOTED OTHERWISE. PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETED.

10. DOWELS FROM FOUNDATIONS INTO PIERS, COLUMNS, BUTTRESSES, OR WALLS ABOVE SHALL BE THE SAME SIZE AND NUMBER AS VERTICAL REINFORCEMENT IN PIERS, COLUMNS, BUTTRESSES, OR WALLS UNLESS NOTED OTHERWISE IN DRAWINGS

EXPANSION AND ADHESIVE ANCHOR

1. ALL EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. SUBSTITUTIONS SHALL HAVE A CURRENT ICC EVALUATION REPORT.

2. ALL ADHESIVE ANCHORS SHALL BE THE HILTI HY 200 SYSTEM OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. SUBSTITUTIONS SHALL HAVE A CURRENT ICC EVALUATION REPORT.

3. CONCRETE SHALL ATTAIN MINIMUM DESIGN STRENGTH PRIOR TO INSTALLATION OF THE ANCHORS. 4. INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE INSTRUCTIONS LISTED IN

5. PRIOR TO ALL EXPANSION ANCHOR DRILLING OPERATIONS IN CONCRETE OR MASONRY, THE CONTRACTOR SHALL LOCATE REINFORCEMENT BY NON-DESTRUCTIVE METHODS. NO REINFORCEMENT SHALL BE DAMAGED BY DRILLING

6. THE OWNER SHALL TEST TWENTY-FIVE PERCENT OF EACH GROUP OF ANCHORS USED FOR STRUCTURAL APPLICATIONS FOR THE FULL ALLOWABLE PULLOUT CAPACITY LISTED BY THE MANUFACTURER. IF HALF OF THE TESTED ANCHORS IN A GROUP FAIL THEN ALL OF THE ANCHORS IN THAT GROUP SHALL BE TESTED.

METAL DECK AND SHEAR CONNECTOR

1. ALL METAL DECK SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES, THE SPECIFICATIONS AND THE RISBC-1 RHODE ISLAND STATE BUILDING CODE.

2. STEEL DECK AND SHEAR CONNECTOR WORK SHALL CONFORM TO THE "SPECIFICATIONS FOR DESIGN OF LIGHT GAGE COLD-FORMED STEEL STRUCTURAL MEMBERS (AISI)"; "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC)"; "STRUCTURAL WELDING CODE-STEEL (AWS D1.1-LATEST EDITION)"; AND "STRUCTURAL WELDING CODE - SHEET STEEL (AWS D1.3-LATEST EDITION.)"

3. MINIMUM BEARING OF DECKING ON STEEL TO BE 2 INCHES. 4. STEEL DECK CROSS SECTIONS ARE ONLY REPRESENTED DIAGRAMMATICALLY ON THE DRAWINGS 5. UNITS TO BE FASTENED TO ALL STEEL OVER WHICH THEY ARE PLACED WITH 5" DIAMETER PUDDLE WELDS. PUDDLE

WELDS TO BE PLACED AT EACH RIB, OR AT 12" O/C, DEPENDING ON THE ORIENTATION OF THE DECK RELATIVE TO THE

6. SIDE LAPS BETWEEN ADJACENT DECK UNITS SHALL BE FASTENED BY #10 SCREW AT 36 INCHES O/C. 7. PROVIDE FLASHING AND CLOSURE PLATES AT ENDS OF ALL UNITS, AT SLAB OPENINGS, AND AROUND COLUMNS. ALL

BEAMS. DECREASE WELD SPACING TO 6" O.C. FOR ROOF DECK WITHIN 4'-0" OF THE BUILDING PERIMETER.

JOINTS TO BE GROUT TIGHT.

8. PROVIDE MISCELLANEOUS STEEL AT COLUMNS TO SUPPORT DISCONTINUOUS DECK AS REQUIRED. 9. FABRICATE DECK UNIT IN LENGTHS TO SPAN 3 OR MORE SUPPORTS WHERE POSSIBLE.

10. STEEL DECK PANEL SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A653 (GALV.). GRADE 33. WITH A MINIMUM YIELD POINT OF 33,000 PSI; ASTM A570/A1011 (UNGALV), GRADE 33, OR ASTM A611/A1008 (UNGALV), GRADE C, WITH A MINIMUM YIELD POINT OF 33,000 PSI AND A THICKNESS NOT THINNER THAN 20 GAGE.

11. SHEAR CONNECTORS SHALL CONFORM TO ASTM A108, GRADES 1010, 1015, 1017 OR 1020. TYPICALLY SHEAR CONNECTORS SHALL BE 3/4" DIAMETER X 41/2" LONG HEADED STUDS. IN NO CASE SHALL SHEAR CONNECTORS BE LESS

12. SHEAR CONNECTORS SHALL BE EQUALLY SPACED OVER THE LENGTH OF THE BEAM. WHERE THE NUMBER OF DECK CORRUGATIONS AVAILABLE IS LESS THAN THE NUMBER OF SHEAR CONNECTORS. USE PAIRS OF SHEAR CONNECTORS STARTING FROM EACH END OF BEAM AND CONTINUING TOWARD THE CENTER UNTIL IT IS POSSIBLE TO RETURN TO A SINGLE SHEAR CONNECTOR IN EACH CORRUGATION. SHEAR CONNECTORS SHALL BE SPACED NOT CLOSER THAN 3" TRANSVERSELY AND 4" LONGITUDINALLY.

13. HORIZONTAL CLEARANCE SHALL BE A MINIMUM OF 1" FROM THE EDGE OF ANY SHEAR CONNECTOR TO THE FACE OF CONCRETE, STEEL DECK RIB, OR SIMILAR ADJACENCY.

14. EDGE DISTANCE FROM THE CENTER OF A SHEAR CONNECTOR TO THE EDGE OF A STRUCTURAL STEEL BEAM SHALL PREFERABLY BE 2", BUT IN NO CASE LESS THAN 11/4".

15. WHERE BOLTS OR MISCELLANEOUS STEEL BREAKS THE PLANE OF THE BOTTOM OF THE DECK RESULTING IN UNEVEN BEARING, SHOP DRAWING SHALL PROVIDE A DETAIL OR INSTRUCTIONS OF PROPOSED SOLUTION SO DECK CAN LAY FLAT **CONCRETE AND REINFORCEMENT**

1. ALL CONCRETE CONSTRUCTION TO CONFORM TO THESE NOTES, THE SPECIFICATIONS, THE LATEST EDITION OF ACI 318, AND THE RHODE ISLAND STATE BUILDING CODE. 2. CONTRACTOR SHALL SUBMIT CONCRETE MIX TO ENGINEER BEFORE ORDERING CONCRETE TO JOB SITE.

DENSITY (PCF)

150

150

150

REQUIRED, DESIGNED IN ACCORDANCE WITH THE CITED REFERENCES.

PRETENSIONED USING CLASS "A" FAYING SURFACES BUT DESIGNED USING BEARING VALUES.

4. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED. A MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS.

28 DAY STRENGTH (PSI)

4000

4000

4000

5. ALL CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE TYPICAL DETAILS SHOWN ON THE STRUCTURAL DRAWINGS AND ONLY AT APPROVED LOCATIONS 6. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60. REINFORCING TO BE WELDED SHALL

CONFORM TO ASTM A706, GRADE 60. 7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND SHALL HAVE AN ULTIMATE TENSILE STRENGTH OF 70,000 PSI.

8. ALL REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI 315 DETAILING MANUAL.

9. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PROPER POSITION WHILE POURING CONCRETE. IF REQUIRED, ADDITIONAL BARS AND STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT TO THE REINFORCING STEEL.

10. ALL REINFORCING BARS MARKED CONTINUOUS SHALL BE LAPPED 47 BAR DIAMETERS AT SPLICES, EXCEPT AS OTHERWISE SHOWN ON DRAWINGS. HOOK BARS AT NON-CONTINUOUS ENDS. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AND CONTINUOUS BOTTOM BARS AT SUPPORTS.

11. PROVIDE CLEAR COVERAGE OF OUTER REINFORCEMENT AS FOLLOWS:

3. SCHEDULE OF STRUCTURAL CONCRETE 28 DAY STRENGTHS AND TYPES:

LOCATION IN STRUCTURE

SLABS ON GRADE

WALLS AND PIERS

FOOTINGS

EXPOSED INTERIOR TOPPING SLABS

LOCATION IN STRUCTURE **CLEAR COVERAGE** SURFACE CAST AGAINST AND PERMANENTLY IN CONTACT WITH FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 11/2" #5 BAR OR SMALLER. #6 BAR TO #18 BAR. FORMED SLABS, WALLS AND JOISTS NOT EXPOSED TO EARTH OR WEATHER (#11 BAR OR SMALLER) FORMED BEAMS AND COLUMNS NOT EXPOSED TO EARTH OR WEATHER..

TOGETHER. 13. NO CONCRETE SHALL BE POURED UNTIL ALL REINFORCEMENT AND INSTALLATIONS HAVE BEEN INSPECTED AND APPROVED BY

12. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6" OR ONE FULL MESH, WHICHEVER IS GREATER, AND SHALL BE WIRED

THE OWNER'S TESTING AGENCY. THE CONTRACTOR SHALL NOTIFY THE OWNER'S TESTING AGENCY 48 HOURS BEFORE POURING CONCRETE TO ALLOW FOR ALL NECESSARY INSPECTIONS

14. FOR CONCRETE SURFACES WHICH ARE TO RECEIVE FINISHES REFER TO ARCHITECTS DRAWINGS 15. CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS FOR ENGINEER'S APPROVAL.

ALL CONCRETE TO BE EXPOSED TO FREEZING TEMPERATURES SHALL BE AIR-ENTRAINED. 17. NO PIPES OR CONDUIT SHALL BE EMBEDDED IN THE STRUCTURAL CONCRETE FLOOR SLABS WITHOUT APPROVAL OF

STRUCTURAL ENGINEER.

18. PROVIDE POCKETS IN WALLS TO RECEIVE BEAMS AND SLABS WHERE REQUIRED. 19. PROVIDE VAPOR BARRIER UNDER INTERIOR SLABS CAST ON GRADE

20. ALL OPENING FOR ELECTRICAL AND TELEPHONE CONDUITS AND ALL PLUMBING SLOTS SHALL BE FILLED WITH CONCRETE TO SAME DEPTH AS FLOOR SLAB AFTER ALL CONDUITS AND PIPING HAVE BEEN INSTALLED.

21. CONCRETE CAST ON SLOPED SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED CAST IS COMPLETED.

22. ALL CONSTRUCTION JOINT KEYS SHALL BE CONTINUOUS AND AS SHOWN ON THE DRAWINGS. MINIMUM KEY SIZE TO BE 31/2" WIDE BY 1½" DEEP. 23. VERTICAL CONSTRUCTION JOINTS MAY BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR IN BEAM OR SLAB WHERE STOP

IN CONCRETE WORK IS NECESSARY. SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCING REQUIREMENTS AT CONSTRUCTION

24. CONCRETE FOUNDATION WALLS SHALL BE POURED IN ALTERNATE SECTIONS. EACH POUR SHALL NOT EXCEED 35 FEET IN LENGTH. NO HORIZONTAL JOINTS SHALL BE PERMITTED EXCEPT WHERE SHOWN ON PLAN OR APPROVED BY THE STRUCTURAL ENGINEER. LAYOUT OF ALL CONSTRUCTION AND/OR OTHER JOINTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR APPROVAL

25. PROVIDE BAR SUPPORTS AND SPACERS WITH NON-CORROSIVE TIPS IN ACCORDANCE WITH ACI 315 FOR ALL REINFORCING INCLUDING WWF.

26. MECHANICAL SPLICES OR WELDED SPLICES ARE GENERALLY USED FOR BARS LARGER THAN #11 DIAMETER, HOWEVER THEY MAY BE USED FOR SMALLER BARS AT CONTRACTORS OPTION.

27. WHERE MECHANICAL SPLICES ARE USED, SPLICES SHALL BE STAGGERED 24 INCHES MINIMUM ALONG LONGITUDINAL AXIS OF MEMBER AND SHALL DEVELOP 125 PERCENT OF SPECIFIED YIELD STRENGTH IN TENSION OR COMPRESSION.

28. WELDING OF REINFORCING SHALL CONFORM TO "STRUCTURAL WELDING CODE - REINFORCING STEEL" AWS D1.4. WELDING STIRRUPS, TIES, INSERTS, OR OTHER SIMILAR ELEMENTS TO LONGITUDINAL REINFORCING SHALL NOT BE PERMITTED. FIELD WELDING OF CROSSING BARS IS NOT PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE ENGINEER.

29. FOR ANY PROPOSED CONCRETE CONSTRUCTION JOINTS IN ELEVATED SLABS ON DECK SUBMIT SHOP DRAWING OF JOINT LOCATIONS FOR REVIEW. JOINTS SHALL NOT BE DIRECTLY OVER STEEL BEAMS AND SHALL BE LOCATED PER CRITERIA ESTABLISHED IN ACI 302.1R SECTION 3.3.8.2

CONCRETE BLOCK MASONRY

1. MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES. THE SPECIFICATIONS, LATEST EDITION ACI 530 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, AND THE RISBC-1 RHODE ISLAND STATE BUILDING CODE.

2. CONCRETE BLOCK TO BE NORMAL WEIGHT HOLLOW BLOCK ASTM C90 TYPE 1 GRADE N, NOMINAL 8" TALL x 16" LONG.

3. MORTAR TO BE ASTM C270 TYPE M OR S. ADMIXTURES ARE NOT ALLOWED.

4. GROUT TO CONFORM TO ASTM C476, FINE OR COURSE, WITH A MINIMUM STRENGTH OF 3000 PSI.

5. NET AREA COMPRESSIVE STRENGTH OF MASONRY, fm, TO BE 2000 PSI UNO, CONSTRUCTED FROM 2000 PSI CMU AND TYPE "M" OR

REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60. 7. JOINT REINFORCEMENT SHALL BE MANUFACTURED WIRE CONFORMING TO ASTM A82.

8. SEE THE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING MASONRY PARTITIONS. 9. SEE SPECIFICATIONS FOR ALL TESTING AND INSPECTION REQUIREMENTS.

10. FILL ALL EXPANSION AND CONTROL JOINTS WITH CLOSED CELL NEOPRENE CONFORMING TO ASTM D1056 CLASS RE41 WITH 50%

11. REINFORCED MASONRY WALLS SHALL HAVE BOND BEAMS AT EACH FLOOR LEVEL, THE TOP COURSE OF PARAPETS, AND ELSEWHERE AS SHOWN. BOND BEAM REINFORCING SHALL BE EXTENDED INTO AND BE CONTINUOUS WITH ALL INTERSECTION BOND BEAMS. PROVIDE 2-#5 CONTINUOUS HORIZONTAL BARS MINIMUM IN BOND BEAMS AND FILL CONTINUOUSLY WITH GROUT.

12. MASONRY OPENINGS FOR MORE THAN 16" WIDE REQUIRE APPROVED LINTELS. 13. PROVIDE AND INSTALL LINTELS FOR OPENINGS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE

4" THICK CMU <u>6" THICK CMU</u> 8" THICK CMU MAX OPENINGS 2-L4x31/2x5/16 4' - 0" 1-L4x3½x5/16 1-L5x5x5/16 7' - 0" 1-L6x3½x5/16 1-8"x5x5/16" BENT PL. 2-L6x3½x5/16

14. FOR WALLS LARGER THAN THE ABOVE THICKNESSES USE MULTIPLES OF THE ABOVE PIECES. LINTELS SHALL BEAR 8" MINIMUM AT BOTH ENDS. LONG LEGS SHALL BE VERTICAL. WHERE LINTEL ABUTS A COLUMN OR WALL PROVIDE CONNECTION TO SUCH. SUBMIT SHOP DRAWINGS OF CONNECTION DETAIL FOR APPROVAL.

OF THE BEAM. FILL CORES OF CONCRETE BLOCKS UNDER ALL BEARING PLATES WITH CONCRETE FOR A WIDTH EQUAL TO 3 TIMES THE BEARING PLATE LENGTH 16. PROVIDE 1-#5 VERTICAL REINFORCING AT 32" O.C., UNO. THIS REINFORCING SHALL BE CONTINUOUS FOR THE FULL HEIGHT OF

15. BEAMS BEARING ON CMU WALLS SHALL HAVE BEARING PLATES OF SUFFICIENT SIZE TO DEVELOP THE MAXIMUM END REACTION

THE WALL, AND SPLICED 2'-0" ABOVE EACH FLOOR LEVEL. 17. REINFORCED MASONRY WALLS SHALL HAVE #9 GA LONGITUDINAL WIRES, LADDER OR TRUSS TYPE, AT 16 INCHES O.C. HORIZONTAL REINFORCEMENT LINO

18. MASONRY BLOCK CELLS CONTAINING VERTICAL REINFORCING SHALL BE GROUTED SOLID. FILLING CELL WITH MORTAR IS NOT ACCEPTABLE.

19. ALL CMU BELOW GRADE SHALL BE GROUTED SOLID.

20. OPENINGS, INCLUDING SEPARATE HORIZONTALLY-STAGGERED OPENINGS, IN NON-LOAD BEARING CMU WALLS TO INTERRUPT NO GREATER THAN ONE VERTICAL REINFORCEMENT BAR FOR EVERY 8 FEET IN LENGTH OF WALL. IN INSTANCES WHERE OPENINGS ARE GREATER THAN 4 FEET IN WIDTH, PROVIDE VERTICAL REINFORCEMENT AT EDGES OF OPENINGS PER TYPICAL DETAIL. DO NOT PLACE OPENINGS AT CELLS WHERE VERTICAL REINFORCEMENT RUNS AT ENDS OR CORNERS OF WALLS OR WHERE ANY HORIZONTAL REINFORCEMENT RUNS AT BOND BEAMS AT TOP AND BOTTOM OF WALLS. NOTIFY ENGINEER IF THESE PROPOSED OPENINGS DO NOT MEET THESE CRITERIA.

ABBREVIATION LIST STRUCTURAL STEEL

1. STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES, THE SPECIFICATIONS, AND THE RISBC-1 FLOOR DRAIN FAR FACE 2. STRUCTURAL STEEL WORK SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 2010)": "CODE OF FINISH STANDARD PRACTICE FOR STEEL BUILDINGS & BRIDGES (AISC 2010)": AND "STRUCTURAL WELDING CODE - STEEL (AWS D1.1-94)" FIN FL FINISHED FLOOR FLOOR 3. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH "DETAILING FOR STEEL CONSTRUCTION (AISC)" AND, WHERE FND FOUNDATION FULL PENETRATION FS FAR SIDE FTG FOOTING 4. STRUCTURAL STEEL SHALL BE THE FOLLOWING GRADES: WIDE FLANGE ROLLED SHAPES ASTM A992 GRADE 50 GA GAUGE PLATES INCLUDING BASE PLATES AND BEARING PLATES, AND ASTM A572 GRADE 50 GALV GALVANIZED ANGLES GRADE BEAM GB CHANNELS AND BARS ASTM A36, UNO GND GROUND ASTM A53 TYPE S GRADE B FY=35 KSI STEEL PIPE GRADE GR ANCHOR RODS ASTM F1554 GRADE 36 UNO GUS PL GUSSET PLATE HIGH STRENGTH BOLTS ASTM A325 OR A490 RECTANGULAR HSS ASTM A500 GRADE C FY=50 KSI H or HORIZ HORIZONTAL ROUND HSS ASTM A500 GRADE C FY=46 KSI HEF HORIZONTAL EACH FACE 5. THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL ENGINEER LICENSED IN RHODE ISLAND TO SUPERVISE THE DESIGN OF ALL HIF HORIZONTAL INSIDE FACE STEEL CONNECTIONS NOT SPECIFICALLY CALLED OUT AS FULLY DESIGNED ON THE STRUCTURAL DRAWINGS. SEE THE HOF HORIZONTAL OUTSIDE FACE SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS. HIGH POINT HSB HIGH STRENGTH BOLT 6. BOLTED CONNECTIONS SHALL BE AS FOLLOWS HEIGHT a. 3/4 INCH MINIMUM BOLT DIAMETER, TWO BOLTS MINIMUM INSIDE DIAMETER b. STANDARD, OVERSIZED, OR HORIZONTAL SHORT SLOTTED HOLES IN WEBS OF BEAMS INSIDE FACE C. BOLTED CONNECTIONS FOR LATERAL FORCE RESISTING MEMBERS (MOMENT AND BRACED FRAMES) SHALL BE

d. SHEAR CONNECTIONS FOR OTHER MEMBERS SHALL BE SIMPLE SHEAR CONNECTIONS WITH EITHER SLIP CRITICAL TYPE. HIGH STRENGTH BOLTS OR BEARING TYPE HIGH STRENGTH BOLTS (ASSUME THREADS INCLUDED IN SHEAR PLANE FOR ALLOWABLE VALUES.) e. SIMPLE SHEAR CONNECTION SHALL BE CAPABLE OF END ROTATION PER AISC REQUIREMENTS FOR "UNRESTRAINED

BEAM CONNECTIONS, UNLESS SHOWN ON PLAN OR NOTED OTHERWISE, SHALL PROVIDE CONNECTION CAPACITY AS FOLLOWS:

a. CONNECTIONS AT NON-COMPOSITE BEAMS SHALL SUPPORT A REACTION "R" EQUAL TO ½ THE TOTAL UNIFORM LOAD CAPACITY OF BEAM FOR A GIVEN SHAPE, SPAN, AND GRADE OF STEEL PER "MAXIMUM TOTAL UNIFORM LOAD" PART 3, AISC MANUAL OF STEEL CONSTRUCTION, 13th EDITION. CONNECTIONS AT COMPOSITE BEAMS SHALL SUPPORT A REACTION "Rc"=MULTIPLIER x "R" (AS DEFINED ABOVE) Rc=1.5 x R

(FOR BEAM DEPTHS GREATER THAN 24" OR GIRDERS) Rc=2.0 x R (FOR BEAM DEPTHS GREATER THAN 8" BUT LESS THAN 24")

ADD TO "R" OR "Rc" THE LOADS OR REACTIONS OF MEMBERS SUPPORTED BY THE BEAM NEAR SUPPORTS (WITHIN L/10 OF END) AND/OR THE VERTICAL COMPONENTS OF FORCE IN DIAGONAL BRACING MEMBERS FRAMING INTO THE BEAM.

8. ENDS OF COLUMNS AT SPLICES AND AT OTHER BEARING CONNECTIONS SHALL BE "FINISHED TO BEAR" TO COMPLETE TRUE BEARING. PROVIDE STIFFENERS "FINISHED TO BEAR" UNDER ALL LOAD CONCENTRATIONS ON SUPPORTING MEMBERS, OVER COLUMNS, AND WHERE SHOWN ON DRAWINGS. WELDING ELECTRODES SHALL CONFORM TO AWS E70XX ELECTRODES OR AS OTHERWISE REQUIRED BY THE SPECIFICATIONS.

WHERE WELD LENGTH IS NOT SHOWN, IT SHALL BE THE FULL LENGTH OF THE JOINT. 10. ALL WELDED CONNECTIONS SHALL CONFORM TO THE AWS.D1.1 LATEST EDITION. ALL WELDERS SHALL BE LICENSED AND QUALIFIED AS REQUIRED BY GOVERNING CODES.

11. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. ALL BUTT WELDS SHALL BE FULL PENETRATION UNLESS OTHERWISE NOTED. ALL GROOVE WELDS SHALL BE FULL PENETRATION UNLESS OTHERWISE NOTED. FILLET WELDS SHALL BE A MINIMUM OF 3/16".

12. REFER TO STEELWORK SPECIFICATIONS FOR STEELWORK PROTECTION AND COATINGS.

13. FIELD CUTTING OF STRUCTURAL STEEL OR ANY FIELD MODIFICATIONS OF STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY ARCHITECT FOR EACH SPECIFIC CASE. NO TORCH CUTTING SHALL BE ALLOWED IN THE FIELD EXCEPT FOR SPECIFIC LOCATIONS SHOWN ON THE DRAWINGS FOR PORTIONS OF EXISTING BEAMS TO BE REMOVED. GRIND ALL FIELD CUTS OF STEEL TO BE SMOOTH.

14. CONTRACTOR SHALL FURNISH ALL PLATES, CLIP ANGLES, CONNECTIONS, ETC. REQUIRED FOR THE COMPLETION OF THE STRUCTURE EVEN IF EVERY SUCH ITEM IS NOT SHOWN ON THE CONTRACT DOCUMENTS.

15. THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE FRAME FOR WIND AND CONSTRUCTION LOADS. SUCH TEMPORARY BRACING SHALL NOT BE REMOVE UNTIL PERMANENT BRACING HAS BEEN INSTALLED AND CONCRETE FOR FLOOR AND ROOF SLABS HAVE ATTAINED 75 PERCENT OF SPECIFIED CONCRETE STRENGTH.

16. STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED. 17. ALL STEEL EXPOSED TO THE WEATHER IN THE COMPLETED BUILDING SHALL BE COATED WITH ZINC RICH PRIMER UNLESS NOTED

18. SHOP PAINTING OF STEEL IS NOT REQUIRED UNLESS OTHERWISE NOTED. 19. ALL STEEL BEAMS SHALL BE ASSUMED TO BE UNRESTRAINED FOR FIRE PROOFING PURPOSES UNLESS NOTED OTHERWISE.

B or BOT

BEW

CANT

CLR

CMU

CO

COL

CONC

CONN

CONT

DIA OR Ø

DIM

DIR

DWG

DWLS

EL or ELEV

EW

EXIST

EXP BOLT

EXP JT

CONST JT

BOTTOM

BEAM

BOTTOM EACH WAY

BRACED FRAME

BOTH SIDES

CANTILEVER

CENTERLINE

CLEAN OUT

CONCRETE

CONNECTION

CONTINUOUS

DIAMETER

DIMENSION

DIRECTION

DRAWING

DOWELS

EACH END

EACH FACE

ELEVATION

EACH SIDE

EACH WAY

EXISTING

EXTERIOR

EXPANSION BOL

EXPANSION JOINT

EQUAL

EACH

CONSTRUCTION JOINT

COLUMN

CI FAR

CAST-IN-PLACE

CONTROL JOINTS

OWSJ OPEN WEB STEEL JOIST P/S PRE-STRESSED POST-TENSIONED PILE CAP PRECAST CONCRETE INSTITUTE PENETRATION POUNDS/SQUARE FOOT PSI POUNDS/SQUARE INCH PRESSURE-TREATED

INT

INV

JST

LLH

LSH

IIV

LSV

LOC

LP

LW

LWC

MAX

MECH

MEZZ

MFR

MID

MIN

NF

NIC

NO or #

NTS

NWC

OD

OH

OPNG

OC or O/C

MID-PT

INTERIOR

INVERT

JOIST

JOINT

K KIP (1000 POUNDS)

LOCATION

LOW POINT

LIGHTWEIGHT

MAXIMUM

MECHANICAL

MEZZANINE

MIDDLE

MIDPOINT

MINIMUM

NUMBER

NEAR FACE

NOT IN CONTRACT

NOT TO SCALE

ON CENTER

OPENING

OPPOSITE

OUTSIDE FACE

OPPOSITE HAND

OUTSIDE DIAMETER

NORMALWEIGHT CONCRETE

MANUFACTURER

LOWER LAYER

LONG LEG HORIZONTAL

LONG SIDE HORIZONTAL

LIGHTWEIGHT CONCRETE

LONG LEG VERTICAL

LONG SIDE VERTICAL

PVC POLYVINYL CHLORIDE R or RAD RADIUS RD **ROOF DRAIN** ABBREVIATION LIST REF REFERENCE REINFORCE or REINFORCEMENT/ING REINF REQ'D ARCHITECTURALLY REQUIRED EXPOSED CONCRETE RET RETURN REV ARCHITECTURALLY REVISION

EXPOSED STRUCTURAL STEEL SEE ARCHITECTURAL DRAWINGS AMERICAN SOCIETY FOR **TESTING AND MATERIALS** SC SLIP CRITICAL SCHED SCHEDULE SECT SECTION STEP FOOTING SIMII AR SOG SLAB ON GROUND / GRADE SPECS SPECIFICATIONS STAINLESS STEEL STD STANDARD STIFF STIFFENER STL STEEL STR STRUCTURAL CONCRETE MASONRY UNIT TOP TIE BEAM TB TEMP TEMPORARY THK THICK or THICKNESS

THRD THREADED T/SLAB TOP OF SLAB TOC or T/CONC TOP OF CONCRETE TOS or T/ST TOP OF STEEL TOW or T/W TOP OF WALL TYP **TYPICAL** UL UPPER LAYER UNLESS NOTED OTHERWISE UNO V or VERT VERTICAL VEF VERTICAL EACH FACE VIF VERIFY IN FIELD VOF VERTICAL OUTSIDE FACE

W/ WITH W/O WITHOUT WP WORKING POINT WWF WELDED WIRE FABRIC

PROJECT NAME Davey Lopes Recreation Center Providence, RI 02907

Bargmann Hendrie + Archetype, Inc

9 Channel Center Street, Suite 300

ARCHITECT

Boston MA 02210

(617) 350 0450

City of Providence 25 Dorrance Stree Providence, RI 02903

PROJECT TEAM

4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc 3102 East Main Road Portsmouth, RI 02871

Structural Engineer RSF Associates, Inc. 64 Pleasant Street Watertown, MA 02472

401-683-6630

317-926-9300

Allied Consulting Engineering Services

270 Littleton Road, Ste. 1 Westford, MA 01886 978-443-7888

REVISIONS

DRAWING TITLE

GENERAL NOTES

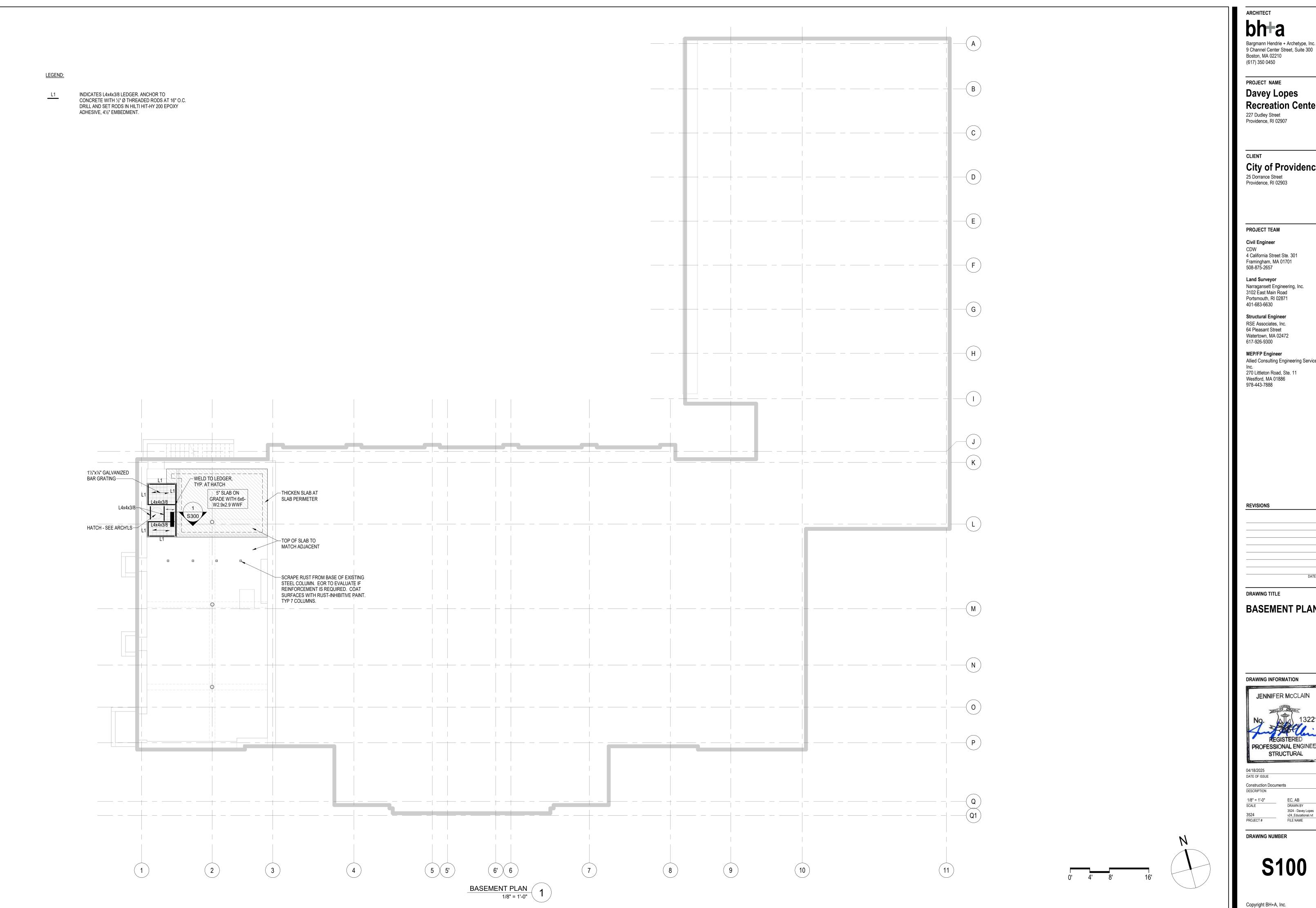
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Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center

227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street Providence, RI 02903

Civil Engineer

4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

BASEMENT PLAN

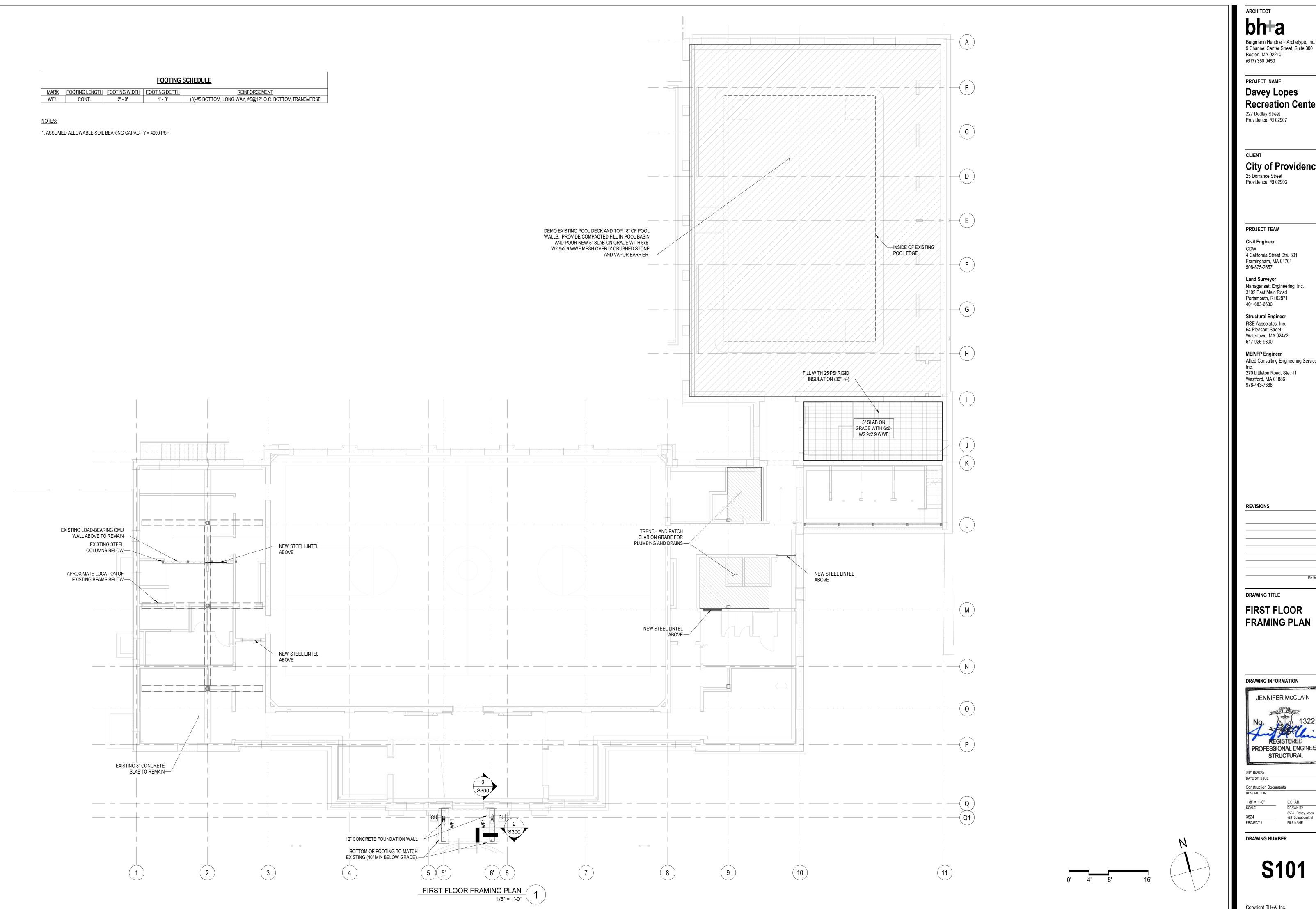
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Bargmann Hendrie + Archetype, Inc.

PROJECT NAME

Davey Lopes Recreation Center

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886

FIRST FLOOR FRAMING PLAN

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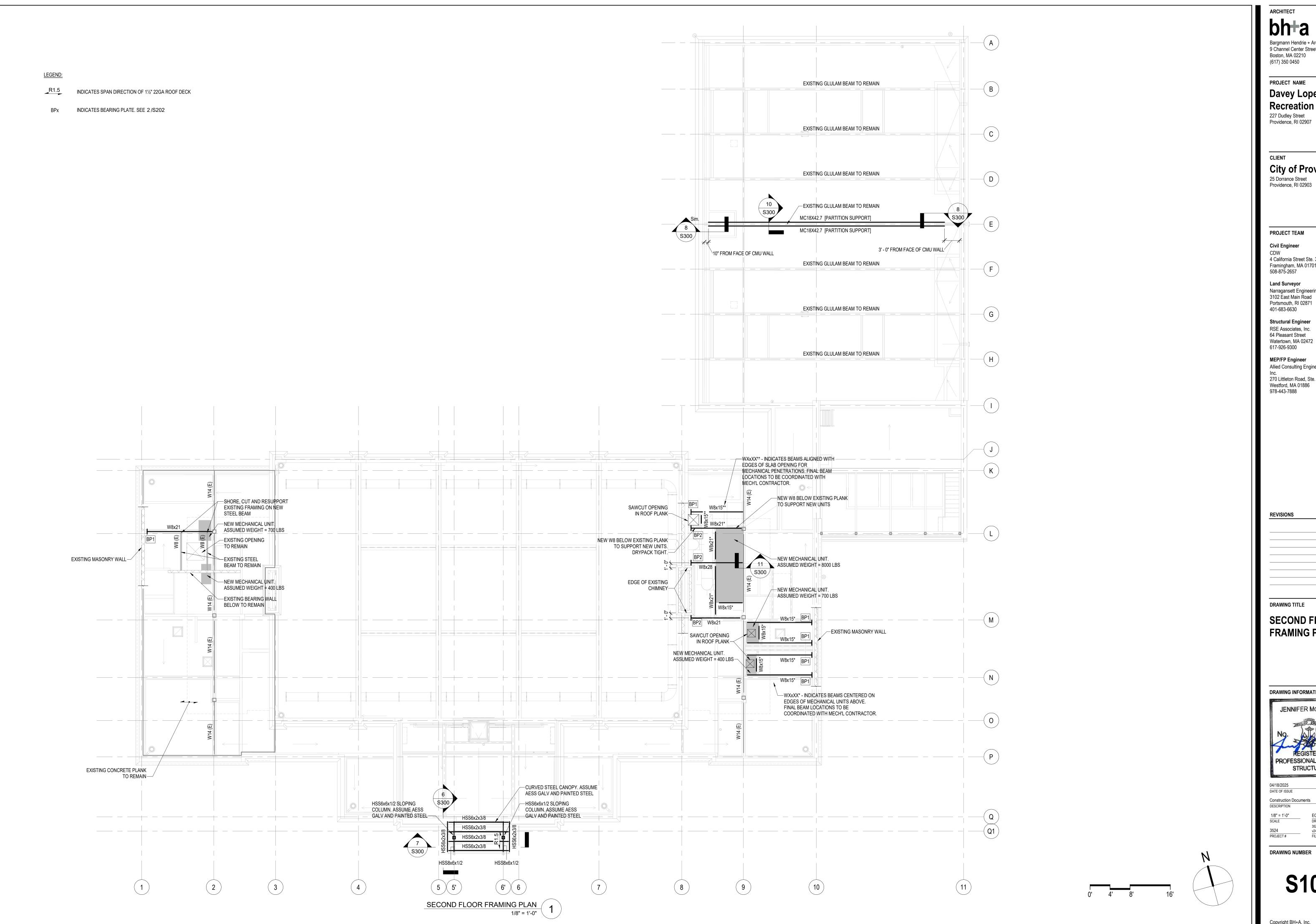


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Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

Davey Lopes **Recreation Center**

227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701

Narragansett Engineering, Inc. 3102 East Main Road

Structural Engineer RSE Associates, Inc. 64 Pleasant Street

617-926-9300 MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

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SECOND FLOOR FRAMING PLAN

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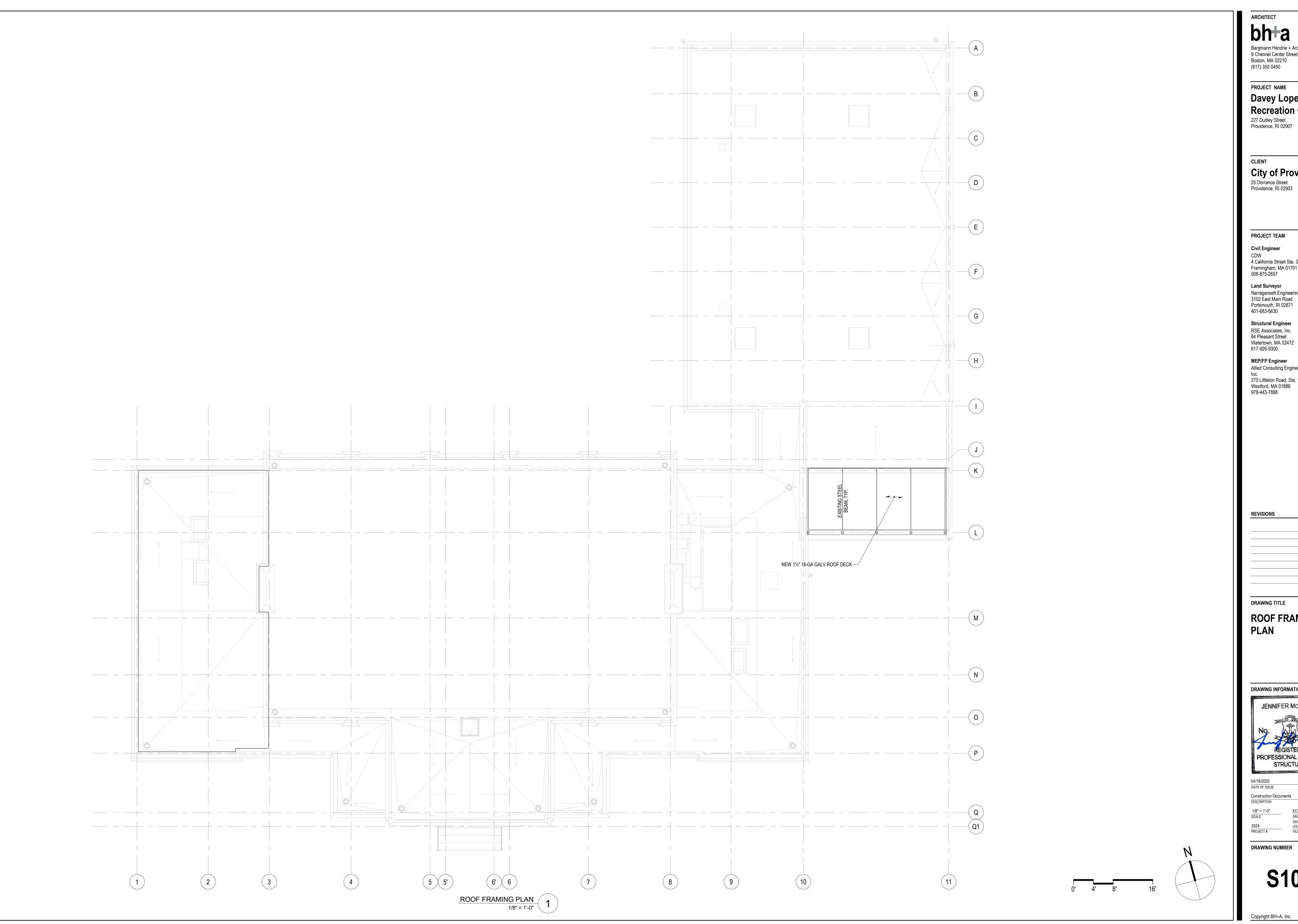


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Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center

City of Providence
25 Dorrance Street
Providence, RI 02903

Civil Engineer

4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor
Narragansett Engineering, Inc.
3102 East Main Road
Portsmouth, RI 02871 401-683-6630

RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer
Allied Consulting Engineering Services,

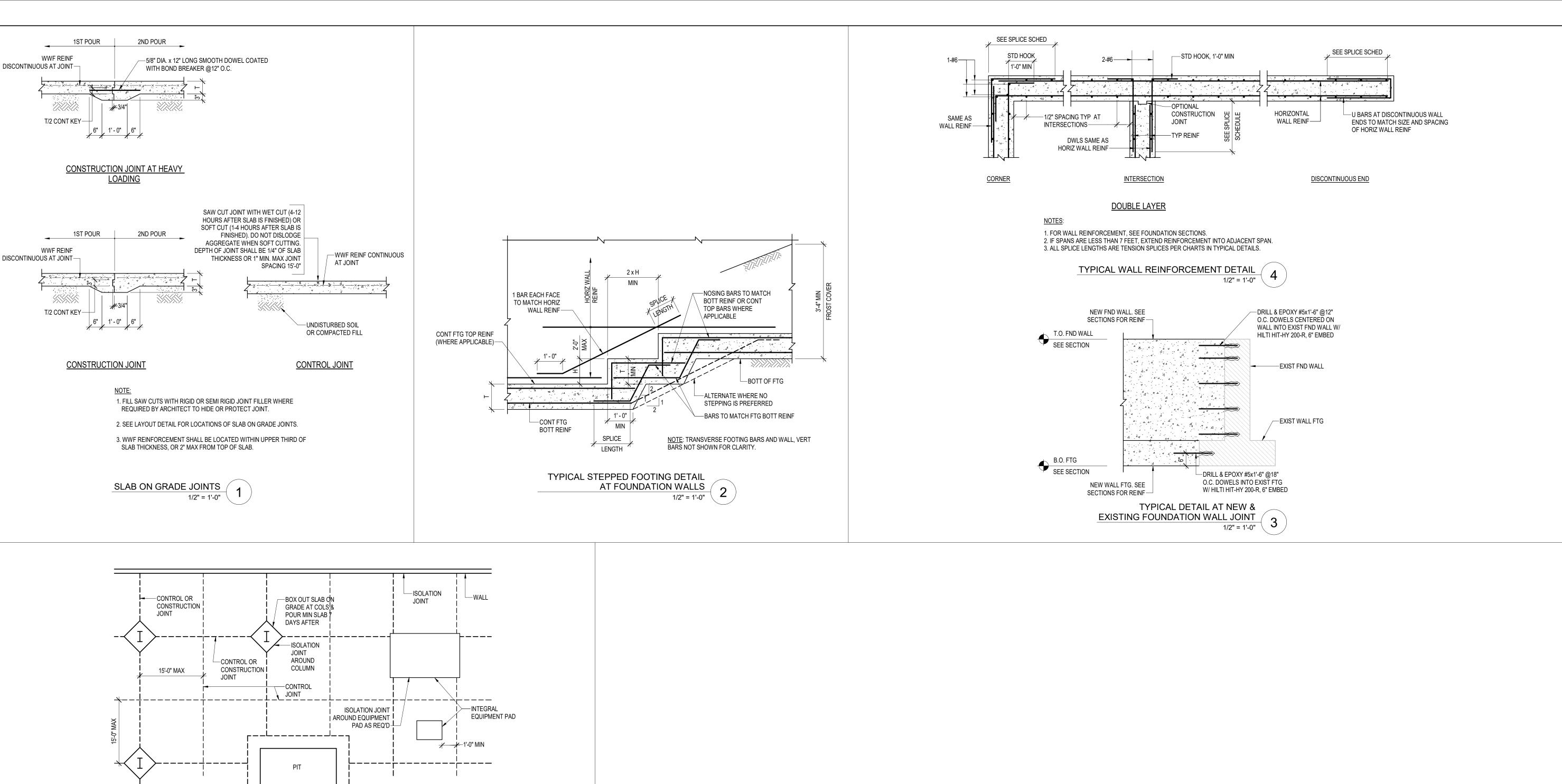
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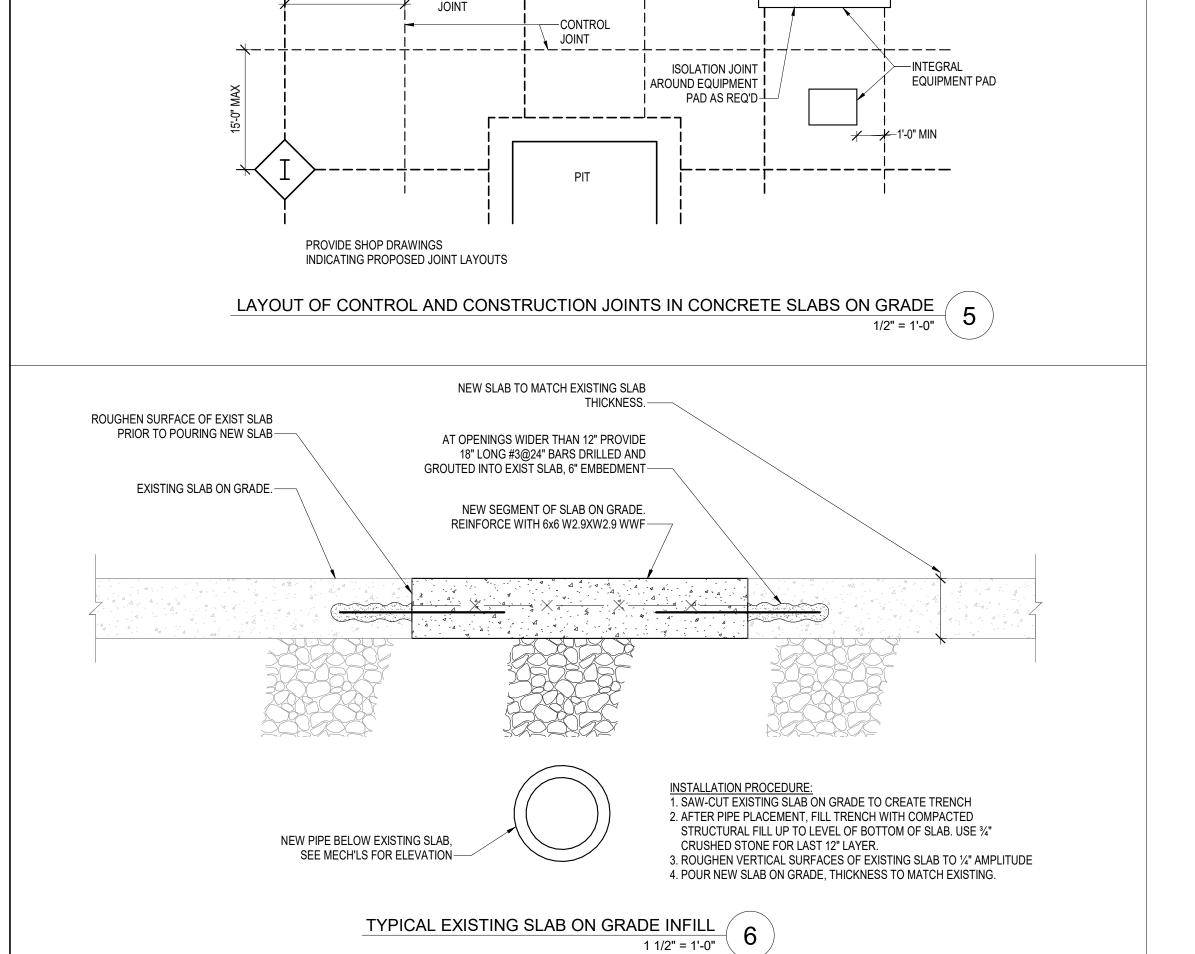
ROOF FRAMING PLAN

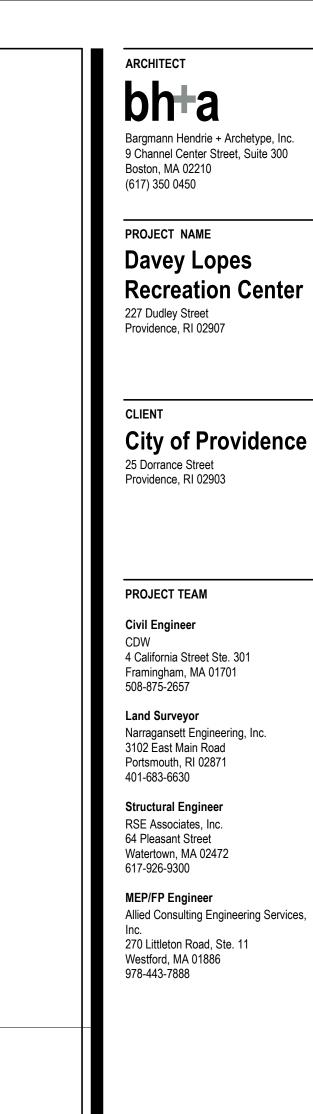
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Construction Documents DESCRIPTION

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AND CLASS 'A' LAP SPLICE LENGTHS | Resize | Case |

ACI TENSION DEVELOPMENT LENGTHS (Ld)

			,					LENG1 E LENG)			
BAR	LAP	fc=6,000 PSI			f'c=7,0	000 PSI			f'c=8,0	000 PSI			
SIZE	CLASS	TOP	BARS	OTHER	R BARS	TOP	BARS	OTHER	R BARS	TOP	BARS	OTHER	R BARS
SIZE	CLASS	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
410	Α	15	23	12	18	14	21	12	16	13	20	12	15
#3	В	20	30	16	23	18	28	16	21	17	26	16	20
ща	Α	20	31	16	24	19	28	15	22	18	26	14	20
#4	В	26	40	20	31	25	37	19	28	23	34	18	26
μг	Α	25	38	20	29	24	35	18	27	22	33	17	25
#5	В	33	49	25	38	31	46	24	35	29	43	22	33
	Α	31	46	24	35	28	42	22	33	26	40	20	30
#6	В	40	59	31	46	37	55	28	42	34	51	26	40
47	Α	44	66	34	51	41	61	32	47	38	58	30	44
#7	В	58	86	44	66	53	80	41	61	50	75	38	58
110	Α	51	76	39	58	47	70	36	54	44	66	34	51
#8	В	66	98	51	76	61	91	47	70	57	85	44	66
110	Α	57	85	44	66	53	79	41	61	49	74	38	57
#9	В	74	111	57	85	69	103	53	79	64	96	49	74
""	Α	64	96	49	74	59	89	46	69	56	83	43	64
#10	В	83	125	64	96	77	116	59	89	72	108	56	83
Д Д Д	Α	71	107	55	82	66	99	51	76	62	93	48	71
#11	В	93	139	71	107	86	128	66	99	80	120	62	93
#14	N/A	86	128	66	99	79	119	61	91	74	111	57	85
#18	N/A	114	171	88	131	106	158	81	122	99	148	76	114

NOTES:

- 1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.
 2. 'TENSION DEVELOPMENT LENGTHS OF STANDARD HOOKS ARE CALCULATED PER ACI 318-95, SECTION 318-95, SECTIONS 12.2.2
- AND 12.15, RESPECTIVELY. TABULATED VALUES FOR BEAMS OR COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND
- CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS. LENGTHS ARE IN INCHES.
 3. 'CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER-TO-CENTER
- SPACING OF THE BARS, ARE DEFINED AS:
- BEAMS OR CASE 1: COVER AT LEAST 1.0 db AND c-c SPACING AT LEAST 2.0 db COLUMNS: CASE 2: COVER LESS THAN 1.0 db OR c-c SPACING LESS THAN 2.0 db
- ALL OTHERS: CASE 1: COVER AT LEAST 1.0 db AND c-c SPACING AT LEAST 3.0 db
- CASE 2: COVER LESS THAN 1.0 db OR c-c SPACING LESS THAN 3.0 db
 4. LAP SPLICE LENGTHS ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS; CLASS A = 1.0 ld AND CLASS B = 1.3 ld
 (ACI 318-95, SECTION 12.15.1).
- 5. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
 6. FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.
- 7. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED VALUES BY ONE OF THE FOLLOWING FACTORS:

 CONCRETE COVER AND SPACING

 TOP BARS

 OTHER BARS
- COVER < 3.0 db OR c-c SPACING < 7.0 db</td>
 $1.\overline{7}/1.3 = 1.31$ 1.50

 COVER ≥ 3.0 db AND c-c SPACING ≥ 7.0 db
 1.20
 1.50

ACI COMPRESSION DEVELOPMENT (Ldc)
AND LAP SPLICE LENGTHS

BAR	COMPRESS	COMPRESSION LAP SPLICE					
SIZE	3,000	4,000	5,000	6,000	7,000	8,000	LENGTH
#3	9	8	8	8	8	8	12
#4	11	10	9	9	9	9	15
#5	14	12	12	12	12	12	19
#6	17	15	14	14	14	14	23
#7	19	17	16	16	16	16	27
#8	22	19	18	18	18	18	30
#9	25	22	21	21	21	21	34
#10	28	24	23	23	23	23	38
#11	31	27	26	26	26	26	43
#14	37	32	31	31	31	31	N/A
#18	50	43	41	41	41	41	N/A

NOTI

- 1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.
 2. COMPRESSION DEVELOPMENT LENGTHS AND COMPRESSION LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318-95
- SECTIONS 12.3 AND 12.16, RESPECTIVELY. LENGTHS ARE IN INCHES.

 3. FOR COMPRESSION DEVELOPMENT LENGTHS, IF BARS ARE ENCLOSED IN SPIRALS OR TIES PER ACI 318-95, SECTION 12.3.3.2 THEN A MODIFICATION FACTOR OF 0.75 MAY BE APPLIED BUT THE LENGTH MUST NOT BE LESS THAT 8 INCHES.
- 4. FOR COMPRESSION LAP SPLICE LENGTHS:
 A. IF BARS ARE ENCLOSED IN A TIED-REINFORCED COMPRESSION MEMBER PER ACI 318-95, SECTION 12.17.2.4, THEN A MODIFICATION FACTOR OF 0.83 MAY BE APPLIED BUT THE LENGTH MUST NOT BE LESS THAT 12 IN.
 B. IF THE BARS ARE ENCLOSED IN A SPIRALLY-REINFORCED COMPRESSION MEMBER PER ACI 318-95, SECTION 12.17.2.5, THEN A MODIFICATION FACTOR OF 0.75 MAY BE APPLIED BUT THE LENGTH MUST NOT BE LESS THAN
- C. THE TABULATED LENGTHS ARE APPLICABLE FOR ALL CONCRETE STRENGTHS OF AT LEAST 3,000 PSI. 5. ACI 318-95 DOES NOT ALLOW LAP SPLICES OF #14 OF #18 BARS, EXCEPT TO #11 OR SMALLER BARS.

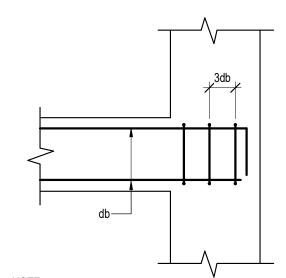
	ACI HOOK DEVELOPMENT LENGTHS (Ldh)											
BAR			f'c IN F	PSI								
SIZE	3000	4000	5000	6000	7000	8000						
#3	9	7	7	6	6	6						
#4	11	10	9	8	7	7						
#5	14	12	11	10	9	9						
#6	17	15	13	12	11	10						
#7	19	17	15	14	13	12						
#8	22	19	17	16	15	14						
#9	25	22	19	18	16	15						
#10	28	24	22	20	19	17						
#11	31	27	24	22	21	19						
#14	37	32	29	27	25	23						
#18	50	43	39	35	33	31						

NOTES:

- 1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT
- CONCRETE.

 2. TENSION DEVELOPMENT LENGTHS OF STANDARD HOOKS ARE CALCULATED PER ACI 318-95,
- SECTION 318-95, SECTION 12.5. LENGTHS ARE IN INCHES. 3. FOR BAR SIZES #3 THROUGH #11 ONLY:
- A) IF CONCRETE COVER PER ACI 318-95 SECTIONS 12.5.3.2, THEN A MODIFICATION
- FACTOR OF 0.7 MAY BE APPLIED BUT THE LENGTH MUST NOT BE LESS THAN 8.0 db NOR 6 INCHES.
- B) IF HOOK IS ENCLOSED IN TIES OR STIRRUPS PER ACI 318-95, SECTION 12.5.3.3, THEN A MODIFICATION FACTOR OF 0.8 MAY BE APPLIED BUT THE LENGTH MUST
- NOT BE LESS THAN 8.0 db NOR 6 INCHES.

 4. FOR EPOXY-COATED HOOKS, MULTIPLY THE TABULATED VALUES BY 1.2.

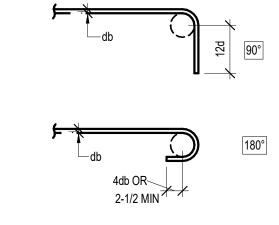


NOTE:

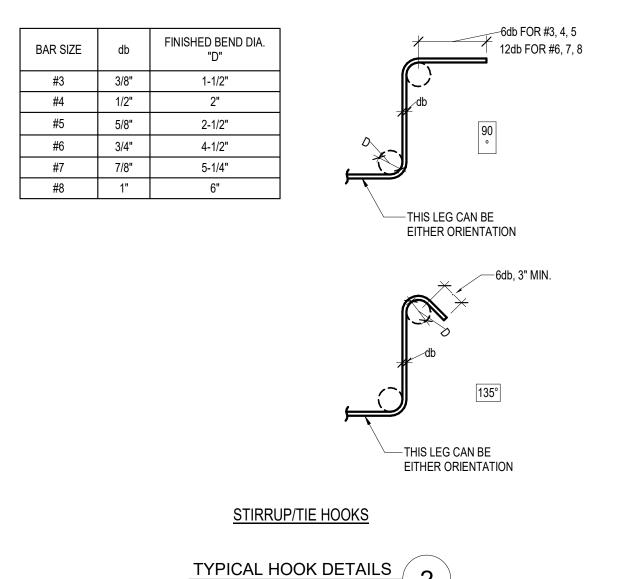
FOR HOOKS WITH BOTH SIDE & TOP OR BOTTOM COVER LESS
THAN 2 1/2" ADD ADD'L TIES PER ACI
(AT DISCONTINUOUS MEMBERS ONLY) SEE DETAIL ABOVE



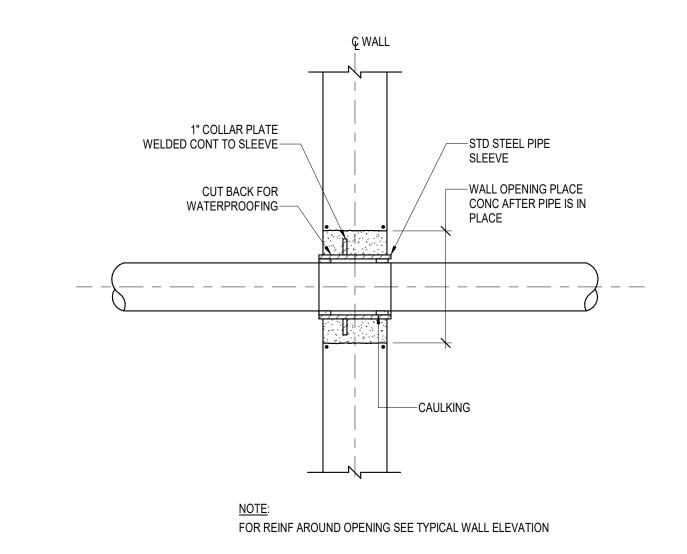




END HOOKS



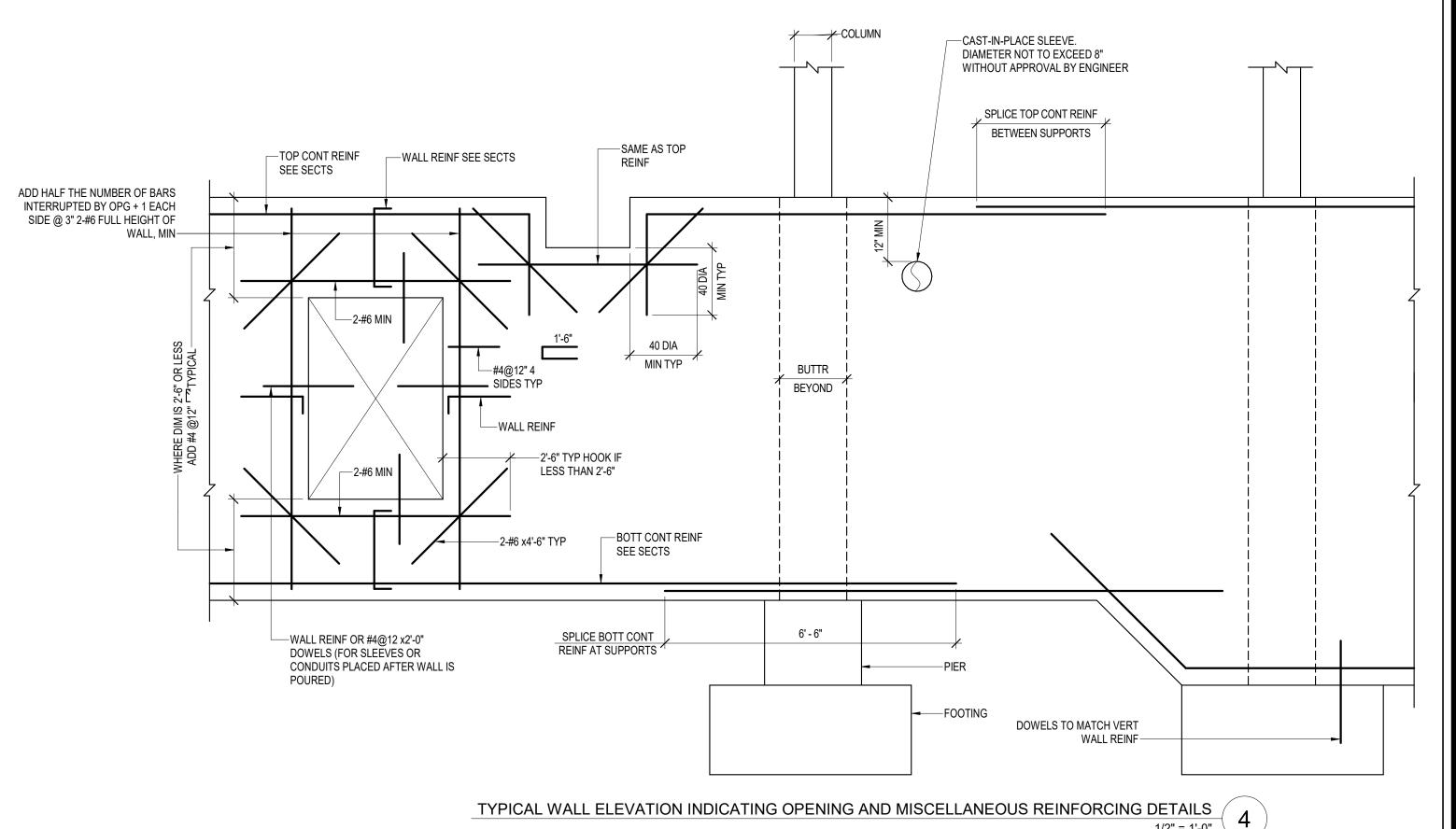
1/2" = 1'-0"



TYPICAL SLEEVE THRU WALL DETAIL

1/2" = 1'-0"

3



hh a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

Davey Lopes
Recreation Center

227 Dudley Street Providence, RI 02907

City of Providence
25 Dorrance Street

Providence, RI 02903

PROJECT TEAM

508-875-2657

401-683-6630

978-443-7888

Civil Engineer CDW 4 California Street Ste. 301 Framingham, MA 01701

Land Surveyor
Narragansett Engineering, Inc.
3102 East Main Road
Portsmouth, RI 02871

Structural Engineer
RSE Associates, Inc.
64 Pleasant Street
Watertown, MA 02472

Watertown, MA 02472 617-926-9300 MEP/FP Engineer

Allied Consulting Engineering Services, Inc. 270 Littleton Road, Ste. 11 Westford, MA 01886

REVISIONS

DRAWING TITLE

TYPICAL DETAILS

DRAWING INFORMATION



04/18/2025 DATE OF ISSUE

DATE OF ISSUE

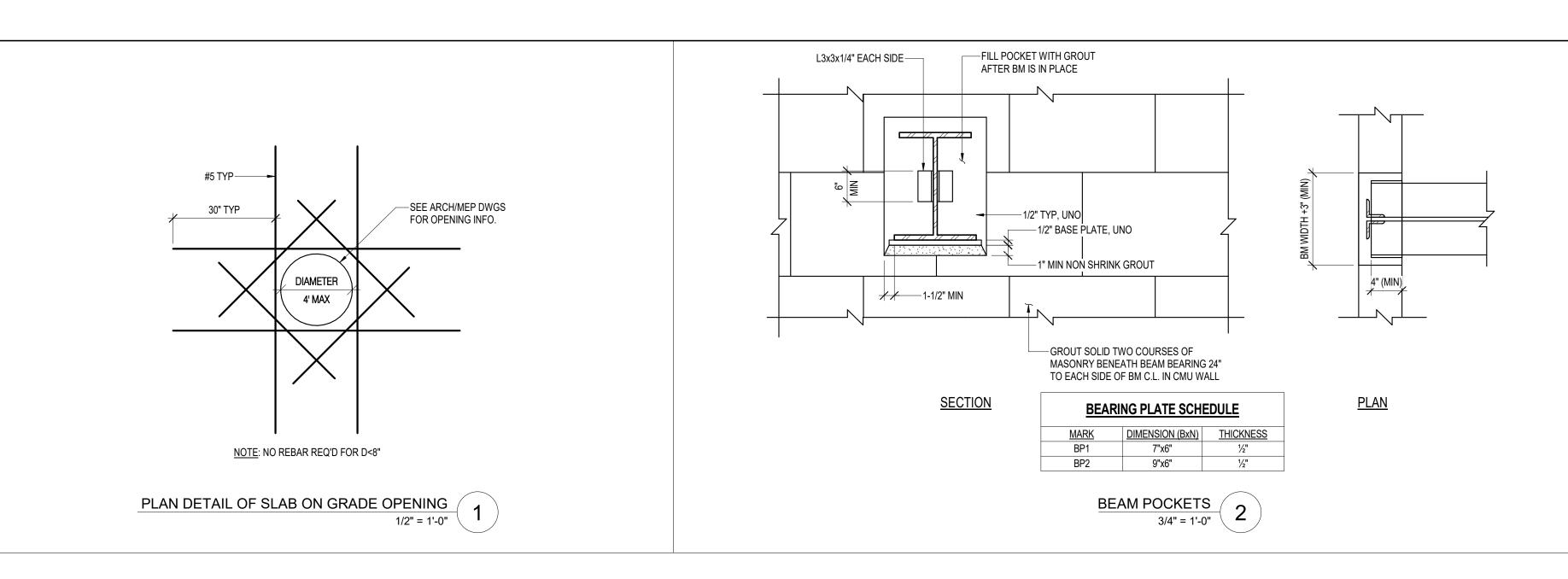
Construction Documents

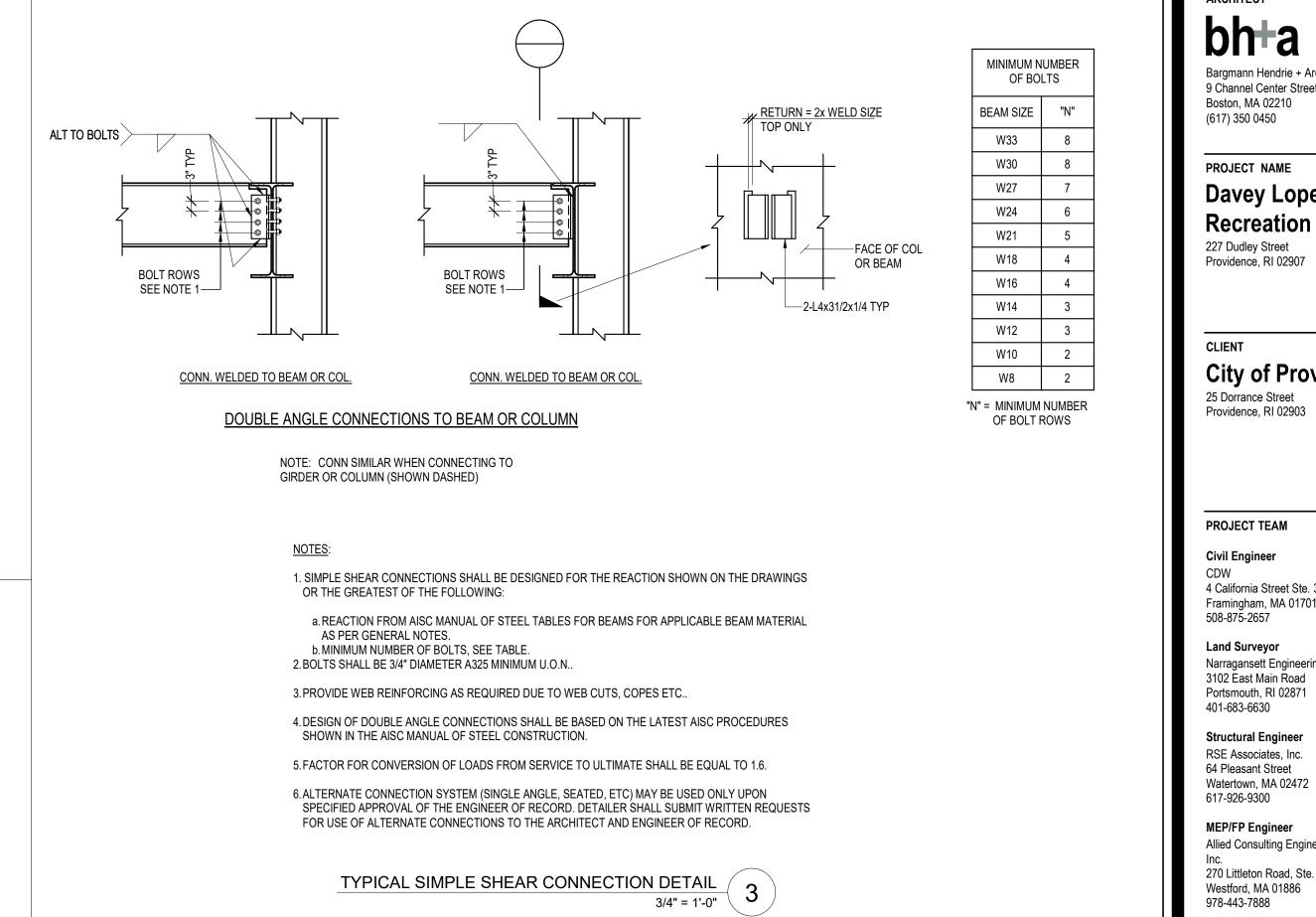
DESCRIPTION

1/2" = 1'-0" Author
SCALE DRAWN
3524 - D
9724 Y24_Edu
PROJECT # FILE NA

DRAWING NUMBER

S201





Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME Davey Lopes **Recreation Center**

City of Providence 25 Dorrance Street

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301

Framingham, MA 01701 508-875-2657

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer Allied Consulting Engineering Services,

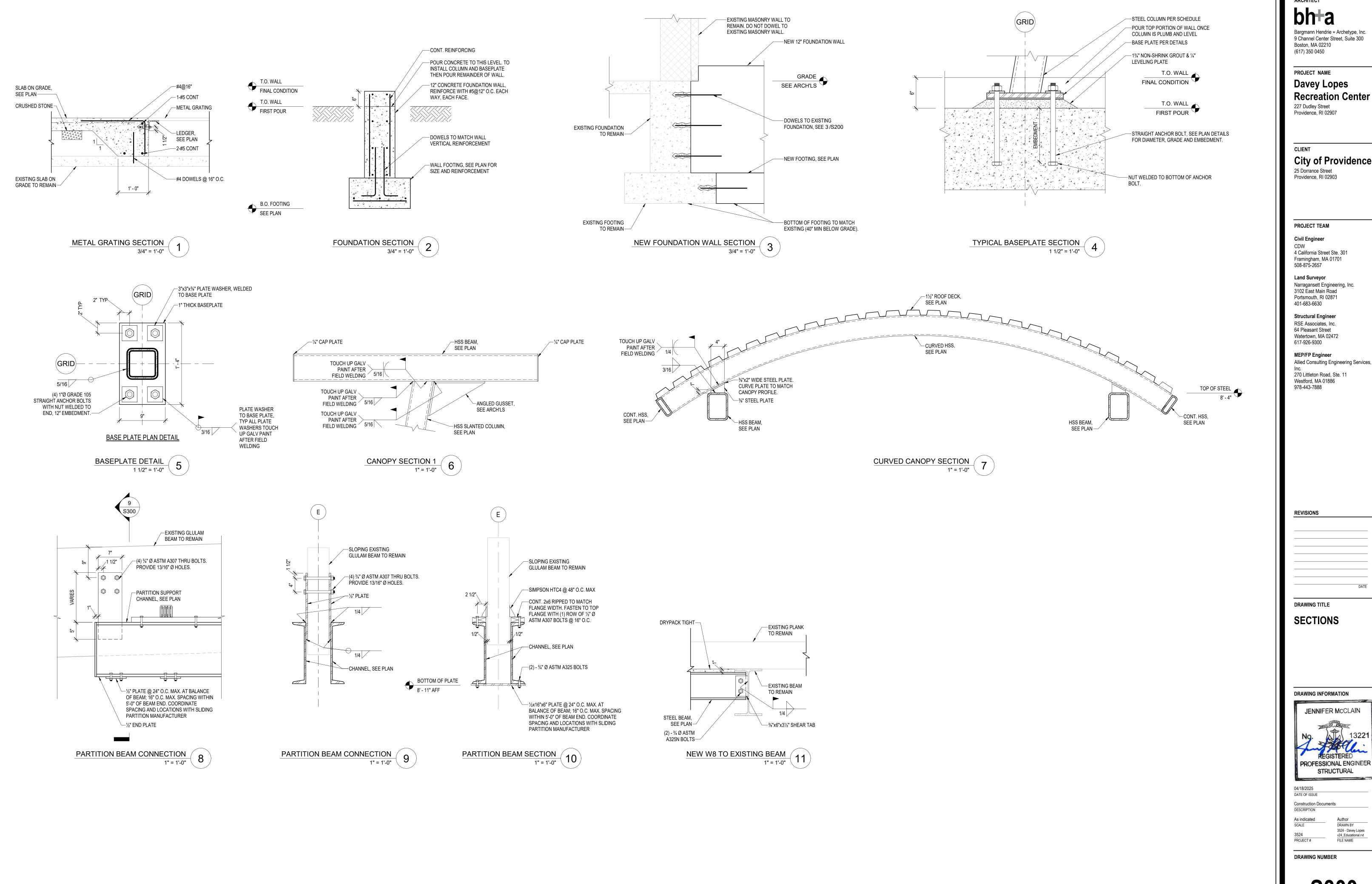
270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

TYPICAL DETAILS

DRAWING INFORMATION



DRAWING NUMBER



ARCHITECT

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

Davey Lopes

City of Providence

4 California Street Ste. 301 Framingham, MA 01701

Narragansett Engineering, Inc. 3102 East Main Road

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

SECTIONS



DRAWN BY 3524 - Davey Lopes FILE NAME

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center

227 Dudley Street Providence, RI 02907

Providence, RI 02903

City of Providence 25 Dorrance Street

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701

508-875-2657 Land Surveyor

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886

DRAWING TITLE

FIRE PROTECTION **Basement Plan**

DRAWING INFORMATION



DRAWING NUMBER

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

City of Providence

FIRE PROTECTION First Floor Plan

ARCHITECT

bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center

227 Dudley Street Providence, RI 02907

CLIENT

Providence, RI 02903

City of Providence
25 Dorrance Street

PROJECT TEAM

Civil Engineer CDW 4 California Street Ste. 301 Framingham, MA 01701

508-875-2657

Land Surveyor

Narragansett Engineering, Inc.
3102 East Main Road

3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer

Allied Consulting Engineering Services, Inc. 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

DRAWING TITLE

FIRE PROTECTION
Second Floor

DRAWING INFORMATION

John Wood

No. 13858

REGISTERED

ROFESSIONAL ENGINEER

(Mechanical)

04/18/2025 DATE OF ISSUE

Construction Documents
DESCRIPTION

1/8" = 1'-0" JR/ SCALE DRA 64076 64076

PROJECT# FILE NAME

DRAWING NUMBER

FP102

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rinda\AppData\Local\Temp\AcPublish_18232\64076 — FP102.dwg, By: Trinda, PLOTTED: Apr 17, 2025 — 1

PIPING (TYP)

1" PIPE (L = 7'-0" MAX)

- TOLCO FIG. 910

- FASTENER

- WATER FLOW SWITCH

VALVE

SWITCH

PARTITION. SEE NOTES REGARDING SLEEVE

WITH

OUTLET

AND CLEARANCE SIZE.

→ SPRINKLER PIPING

FIREWALLS.

FILL ANNULAR SPACE WITH LISTED

FIRE RATED CAULKING COMPOUND.

MATCH RATING WHEN PENETRATING

(AT LEAST 2' SEPARATION

FROM ALARM CHECK VALVE)

BRACING REQUIREMENTS:

FLEXIBLE COUPLINGS:

WHERE REQUIRED

CLEARANCE:

THE LISTED RESULTS.

BRACING REQUIREMENTS SHALL BE PER NFPA 13.

SUBSTITUTED BECAUSE OF THIS MATERIALS SERIOUS

4. TOLCO STEEL FIG. 65 COMPONENTS WERE USED DURING

1. FLEXIBLE COUPLINGS WILL BE PROVIDED AT 2½" AND

1. CLEARANCES SHALL BE FILLED WITH FLEXIBLE MATERIAL

2.1. CLEARANCES SHALL BE PROVIDED AT ALL PIPING

2.1.1. FOR PIPE DIAMETERS 1" THRU 3½":

PASSING THROUGH WALLS, FLOORS, FOUNDATIONS,

CLEARANCE OF 2" GREATER THAN PIPE

CLEARANCE OF 4" GREATER THAN PIPE

PENETRATED OR USED TO SUPPORT PIPING SHALL

FOR PIPE DIAMETERS 4" AND LARGER:

CLEARANCE FROM STRUCTURAL MEMBERS NOT

CLEARANCE SHALL NOT BE REQUIRED THROUGH

REQUIRED TO HAVE A FIRE RESISTANCE RATING.

CLEARANCE SHALL NOT BE REQUIRED IF FLEXIBLE

LATERAL 2-WAY BRACING SPACED AT 40' MAX ON

SPACING SHALL NOT EXCEED A MAXIMUM INTERVAL

LONGITUDINALLY BRACING WHERE LOCATED WITHIN 2

LONGITUDINALLY AND THE LATERAL BRACE IS ON A

PIPE OF EQUAL OR GREATER SIZE THAN THE PIPE

CENTER WILL BE PROVIDED FOR ALL MAINS.

1.3. DISTANCE BETWEEN THE LAST BRACE AND THE END

1.4. LATERAL BRACING SHALL BE ALLOWED TO ACT AS

FEET OF CENTERLINE OF PIPING BRACED

∠ PROVIDE SPARE SPRINKLERS.

CABINET, AND WRENCH PER NFPA 13

WITH

6" DOUBLE CHECK

ORIENTATION WITH

6" SERVICE

ETC. AROUND ALL FIRE PROTECTION PENETRATIONS.

CLEARANCE:

SLEEVES:

WHERE NOT REQUIRED:

FOUNDATION

N.T.S

SLEEVE TO BE FLUSH ON BOTH SIDES OF 1. THIS DETAIL IS APPLICABLE FOR ALL PIPING INCLUDING MAINS, BRANCH LINES, RISERS, STANDPIPES, DRAINS, FIRE DEPARTMENT CONNECTIONS. AND OTHER AUXILIARY PIPING.

FOR PIPE DIAMETERS 1" THRU 31/2": CLEARANCE OF 2" GREATER THAN PIPE DIAMETER

FOR PIPE DIAMETERS 4" AND LARGER: CLEARANCE OF 4" GREATER THAN PIPE DIAMETER

3. IN THE EVENT OF A CONFLICT BETWEEN ARCHITECTURE AND ENGINEER DRAWINGS, ARCHITECTS DRAWINGS SHALL BE APPLICABLE.

1.2. CLEARANCE FROM STRUCTURAL MEMBERS NOT PENETRATED OR USED TO SUPPORT PIPING SHALL BE AT LEAST 2 INCHES.

VALVE ASSEMBLY

IN VERTICAL

MASTER FLOW

TAMPER

SWITCH

GATE VALVE

(TYP) (N.O.)

OF PIPE SHALL NOT EXCEED 6 FEET

COUPLINGS ARE LOCATED WITHIN 1 FOOT OF EACH

PENETRATION OF GYPSUM WALLBOARD NOT

PLATFORMS, AND PIPE SLEEVES SHALL BE AS

STRUCTURAL TESTING AND ARE REQUIRED TO ACHIEVE

LARGER PIPES CROSSING BUILDING EXPANSION JOINTS.

BRACING COMPONENTS SHALL BE FERROUS.

3. MALLEABLE IRON COMPONENTS MUST NEVER BE

POTENTIAL FOR FRACTURE AND FAILURE.

COMPATIBLE WITH PIPING MATERIAL.

DIAMFTER

WHERE NOT REQUIRED:

TYPE OF BRACING:

LATERAL BRACING:

BE AT LEAST 2 INCHES.

SIDE OF PENETRATION.

OF 40 FEET ON CENTER.

PIPE	HANGER	MIN. BOLT	MIN. BOLT	MIN. BOLT OR L		
DIAMETER		SIZE FOR	SIZE FOR	SCREW SIZE FOR		
	DIAMETER			WOOD		
1"-2"	¾ "	¾ "	¾ "	¾"		
2½"-4" ¾" ¾" ½"						
5"-6" ½" ½" ½" ½"						

						· -				
AXIMUM HANGER SPACING SCHEDULE										
IPE			PIP	E DIAME	ETER					
ATERIAL	1"	1¼"	1½"	2"	2½"	3"	4"-8"			
EEL PIPE CH.10 &40)	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"			
	-		•	•						

MAXIMUM UNSUPPORTED END LENGTH SCHEDULE								
PIPE	PIP	E DIAMI	ETER					
MATERIAL	1"	11/4"	1½"-3"					
LESS THAN 100 PSI								
STEEL PIPE (SCH.10 & 40)	3'-0"	4'-0"	5'-0"					
MORE THAN 100 PSI								
STEEL PIPE (SCH.10 & 40)	1'-0"	1'-0"	1'-0"					

2.1. LONGITUDINAL 2-WAY BRACING SPACED AT 80' MAX

2.3. LONGITUDINALLY BRACING SHALL BE ALLOWED TO

1.1. BRANCH LINES AND ARMOVERS EXCEEDING 2' IN

LENGTH WILL BE RESTRAINED PER THE

1.2. WHERE BRANCH LINES PIPE DIAMETER IS GREATER

1.3. WHERE BRANCH LINES ARE SUPPORTED BY RODS

1.4. REQUIRED BRANCH LINE RESTRAINTS SHALL BE ONE

DEGREES FROM VERTICAL PLANE AND

FOR CPVC PIPE ONLY: CPVC HANGERS

UTILIZING TWO POINTS OF ATTACHMENT.

RESTRAINED WHERE APPLICABLE AND SHALL BE

EXTENDED HANGER ROD TIGHT TO PIPE

SPRIGS GREATER THAN 4 FEET IN LENGTH SHALL

BE RESTRAINED REGARDLESS OF ROD LENGTH.

3.1. THE TOP RAISERS SHALL BE BRACED WITH LATERAL

4. ALL REMAINING PIPE (FEEDS, CROSS MAINS, MAIN, ETC.):

4.1. LATERAL SWAY BRACING SHALL BE REQUIRED FOR

N.T.S

FIRE PROTECTION BELL

WALL SLEEVE

EXTERIOR

WALL PLATE

WITH SIGNAGE

(INSTALL 90" ABOVE GRADE)

_ FIRE DEPARTMENT

CONNECTION (FDC)

AND LONGITUDINAL 4-WAY BRACING.

LISTED SURGE SUPPRESSOR CLIPS

1.6. RESTRAINT INTERVALS SHALL COMPLY WITH NFPA

1.8. DROP AND ARMOVERS SHALL NOT REQUIRE

2.1. BRACING REQUIREMENT NOT APPLICABLE

ALL FEEDS AND CROSS MAINS.

ANCHORED ON BOTH SIDE OF PIPE.

1.5. END SPRINKLER ON A BRANCH LINE SHALL BE

THAN 2½", LATERAL SWAY BRACING SHALL BE

LESS THAN 6 INCHES IN LENGTH BETWEEN TOP OF

PIPE AND POINT OF ATTACHMENT TO THE BUILDING

STRUCTURE, RESTRAINTS SHALL NOT BE REQUIRED

NO. 12, 440 LB WIRE INSTALLED AT LEAST 45

REQUIREMENTS OF NEPA 13.

LATERALLY

REQUIRED

RESTRAINT

TO FIRE

SYSTEM

PROTECTION

INTERIOR

BUILDING MOUNTED FIRE DEPARTMENT CONNECTION DETAIL

2. IN THE EVENT THE SPECIFICATIONS DO NOT PROVIDE DELINEATION OF RESPONSIBILITY, THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, FINISHING, AND

1. ALL FIRE PROTECTION PENETRATIONS SHALL BE SLEEVED AS DETAILED. THIS INCLUDES ALL RATED AND NON-RATED ASSEMBLED AND WHETHER THE ASSEMBLY IS CONCEALED OR EXPOSED.

1.1. CLEARANCES SHALL BE PROVIDED AT ALL PIPING PASSING THROUGH WALLS, FLOORS, FOUNDATIONS, PLATFORMS, AND PIPE SLEEVES SHALL BE AS FOLLOWS:

2. WHERE CONCRETE WALLS, SLABS, OR SIMILAR BARRIERS ARE CORE DRILLED, SLEEVE SHALL BE CAULKED & LEADED IN PLACE AND SHALL BE FLUSH ON BOTH SIDES

CLEARANCE SHALL NOT BE REQUIRED IF FLEXIBLE COUPLINGS ARE LOCATED WITHIN 1 FOOT OF EACH SIDE OF NON-FIRE RATED PENETRATION.

CLEARANCE SHALL NOT BE REQUIRED THROUGH PENETRATION OF GYPSUM WALLBOARD OR SIMILAR MATERIAL NOT REQUIRED TO HAVE A FIRE RESISTANCE RATING.

DRAIN PIPING:

RISERS:

ON BRANCH LINES.

OF THE FOLLOWING:

LISTED SWAY BRACING

BRANCH LINES:

LOCATION OF BRACING ON PIPING:

2 FEET OF CENTERLINE OF PIPING BRACED

ON CENTER WILL BE PROVIDED FOR ALL MAINS.

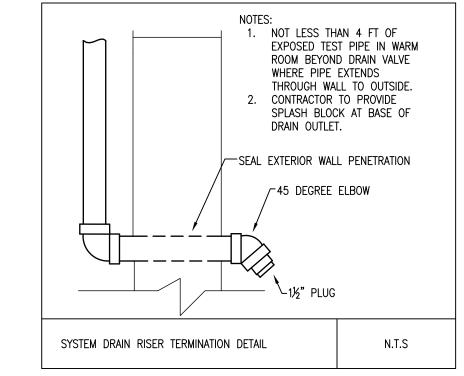
OF PIPE OR CHANGE IN DIRECTION SHALL NOT

DISTANCE BETWEEN THE LAST BRACE AND THE END

ACT AS LATERALLY BRACING WHERE LOCATED WITHIN

TABLE REFERS TO END OF LINE SPRINKLERS. CUMULATIVE HORIZONTAL LENGTH OF UNSUPPORTED ARMOVER TO A SPRINKLER, SPRINKLER DROP, OR SPRIG SHALL NOT EXCEED 2'-0" FOR SYSTEM PRESSURE (STATIC OR FLOWING) LESS THAN 100 PSI. 2.1. WHERE SYSTEM PRESSURE (STATIC OR FLOWING) EXCEEDS 100 PSI, REFER TO MAXIMUM UNSUPPORTED END LENGTH SCHEDULE.

LIGHT FIXTURE: 250 W - 499 W



SPRINKLER DISTANCE FRO HEAT SOURCE SCHEDULE	M COMMON	
COMMON HEAT SOURCE	ORDINARY RATING	INTERMEDIATE RATING
FIREPLACE - TOWARDS SIDE	36"	12"
FIREPLACE - TOWARDS FRONT	60"	36"
COAL OR WOOD-BURNING STOVE	42"	12"
KITCHEN RANGE	18"	9"
WALL OVEN	18"	9"
HOT AIR FLUES	18"	9"
UNINSULATED HEAT DUCTS	18"	9"
UNINSULATED HOT WATER PIPES	12"	6"
AIR DIFFUSER SIDE — CEILING OR WALL MOUNT	24"	12"
AIR DIFFUSER FRONT — WALL MOUNT	36"	18"
HOT WATER HEATER OR FURNACE	6"	3"
LIGHT FIXTURE: 0 W - 250 W	6"	3"

SPRINKLER DISTANCE FROM HVAC HEAT SOURCE SCHEDULE							
HVAC HEAT SOURCE	ORDINARY RATING	INTERMEDIATE RATING	HIGH RATING				
HEATING DUCT - ABOVE	>2.5'	≤ 2.5'	N/A				
HEATING DUCT - SIDE AND BELOW	>1.0'	≤ 1.0'	N/A				
HEATING DUCT - DIFFUSER - DOWNWARD FLOW	OUTSIDE 1.0' RADIUS	WITHIN 1.0' RADIUS	N/A				
HEATING DUCT - DIFFUSER - HORIZONTAL FLOW	OUTSIDE 2.5' RADIUS	WITHIN 2.5' RADIUS	N/A				
UNIT HEATER — HORIZONTAL FLOW	N/A	-OUTSIDE 7.0' RADIUS -WITHIN 20.0' RADIUS	WITHIN 7.0' RADIUS				
UNIT HEATER - VERTICAL FLOW DOWNWARD	N/A	-OUTSIDE 7.0' RADIUS	WITHIN 7.0' RADIUS				

SPRINKLER TEMPERATULE	JRE RATING IN	I SPECIFIC
SPECIFIC LOCATION	ORDINARY RATING	INTERMEDIATE RATING
SKYLIGHTS	DO NOT USE	GLASS OR PLASTIC SKYLIGHTS
ATTICS	DO NOT USE	VENTILATED OR UNVENTILATED
PEAKED ROOF	VENTILATED	UNVENTILATED
FLAT ROOF - METAL, NOT CONCEALED	VENTILATED OR UNVENTILATED	FOR UNINSULATED ROOF: JOB SPECIFIC
FLAT ROOF - METAL, CONCEALED	VENTILATED	UNVENTILATED

JURISDICTION.

SIGNS

1. CONTRACTOR TO CONFIRM WITH AUTHORITY HAVING

DEPARTMENT CONNECTION APPLICABLE IN THE

OTHERWISE APPROVED BY THE AHJ.

JURISDICTION REGARDING THE SIZE AND TYPE OF FIRE

PROVIDE WORKING SPACES OF NOT LESS THAN 36" IN

WIDTH, 36" IN DEPTH, AND 78" IN HEIGHT UNLESS

LOCATION OF THE FDC SHALL BE APPROVED BY THE

4.1. ON BUILDINGS: PROVIDE AN APPROVED SIGN ON THE

ARE SUBJECT TO APPROVAL BY THE AHJ.

BUILDING FACE. SIGN SHALL LETTERS NOT LESS

ON FDC: METAL SIGN WITH RAISED LETTERS NOT

THAN 6 INCHES IN HEIGHT STATING "FDC". SIGNS

LESS THAN 1 INCH IN SIZE SHALL BE MOUNTED ON

READ "AUTOMATIC SPRINKLERS" OR "STANDPIPES" OR

"TEST CONNECTION" OR A COMBINATION THEREOF AS APPLICABLE. WHERE FDC DOES NOT SERVE THE

INDICATING THE PORTIONS OF THE BUILDING SERVED

FDC SERVING AUTOMATIC SPRINKLERS, STANDPIPES

OR FIRE PUMP CONNECTIONS. SUCH SIGNS SHALL

ENTIRE BUILDING, A SIGN SHALL BE PROVIDED

ACCESS. IMMEDIATE ACCESS SHALL BE MAINTAINED AT

FENCES, BRUSH, TREES, WALLS OR ANY OTHER FIXED

NAMEABLE OBJECT. FENCES PROVIDED WITH AN ACCESS

GATE SHALL BE APPROVED AND MAINTAINED OPERATIONAL

N.T.S

ALL TIMES WITHOUT OBSTRUCTIONS. THIS INCLUDES

FDC SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS AND SHALL COMPLY WITH

THE APPLICABLE SECTIONS OF THE BUILDING CODE.

FIRE PROTECTION SIGNAGE NOTES FIRE PROTECTION SIGNAGE SHALL BE INSTALLED PER NFPA 13. SEE STANDARD FOR ADDITIONAL REQUIREMENTS. SIGNS SHALL BE PERMANENTLY MARKED, WEATHERPROOF AND METAL OR RIGID PLASTIC. SIGNS SHALL BE SECURED WITH CORROSION-RESISTANT WIRE OR CHAIN. GENERAL INFORMATION SIGN

> 3.1. THIS SIGN SHALL BE PROVIDED AND INSTALLED IN THE VICINITY OF FIRE PROTECTION HEAD END EQUIPMENT. 3.2. SIGN SHALL INCLUDE ALL INFORMATION LISTED IN NFPA 13 SECTION 25.6.2.: HYDRAULIC DESIGN INFORMATION SIGN. 4.1. SIGNS SHALL BE PLACED AT EACH ALARM VALVE, DRY PIPE VALVE, PREACTION VALVE, OR DELUGE VALVE.

4.1.1. THIS SIGN SHALL INCLUDE ALL INFORMATION LISTED IN NFPA 13 SECTION 25.5.2. INCLUDING: LOCATION OF DESIGN AREA(S)

DISCHARGE DENSITIES OVER THE DESIGN AREA(S) 4.1.4. REQUIRED FLOW AND RESIDUAL

DEMAND PRESSURE AT THE BASED OF THE RISER 4.1.5. OCCUPANCY CLASSIFICATION HOSE STREAM ALLOWANCE NAME OF INSTALLING CONTRACTOR. IDENTIFICATION SIGNAGE SHALL BE PLACED AT

ALL OF THE FOLLOWING LOCATIONS IF PRESENT: 5.1. CONTROL VALVES 5.2. DRAIN VALVES AIR VENTING VALVES

LOCATIONS.

5.4. TEST CONNECTION VALVES 5.5. FIRE DEPARTMENT CONNECTIONS 5.5.1. PORTION OF BUILDING BEING SERVED (ONLY IF WHOLE BUILDING

IS NOT SERVED) REQUIRED PRESSURE (IF GREATER

5.5.2. THAN 150 PSI) 5.6. CORROSION PREVENTION: SIGN SHALL INDICATED THE NUMBER 5.6.1.

OF CORROSION MONITORING POINTS AND THEIR LOCATIONS. 5.6.2. SIGN SHALL INDICATED THE NUMBER OF AIR VENTING VALVES AND THEIR

GENERAL NOTES

BASIS OF DESIGN: LOCAL FIRE DEPARTMENT, RHODE ISLAND STATE BUILDING CODE, NFPA

THE INFORMATION INDICATED ON THESE DRAWINGS IS CONCEPTUAL IN NATURE ONLY, AND DOES NOT NECESSARILY SHOW ALL REQUIRED OFFSETS, INTERFERENCE, OR OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO DETERMINE THE EXACT ROUTING OF THE FIRE PROTECTION PIPING, THE NUMBER OF HEADS NEEDED FOR ANY GIVEN AREA AND EXACT HEAD LAYOUT.

3. SPRINKLER SYSTEM:

3.1. SPRINKLER CONTRACTOR SHALL PREPARE ALL PLANS, HYDRAULIC CALCULATIONS AND CUT SHEETS REQUIRED FOR SUBMISSION TO THE AUTHORITY HAVING JURISDICTION.

3.2. SPRINKLER CONTRACTOR SHALL HAVE THE PLANS AND HYDRAULIC CALCULATIONS STAMPED AND SIGNED BY A LICENSED FIRE PROTECTION ENGINEER. ALL PLANS AND HYDRAULIC CALCULATIONS SHALL BE INCLUDED IN O&M MANUALS.

3.3. THE SPRINKLER SYSTEM SHALL BE SIZED BASED ON HYDRAULIC CALCULATIONS THAT PROVIDE A MINIMUM 10 PSI SAFETY MARGIN.

ALL LIGHT HAZARD AREAS SHALL BE DESIGNED TO 0.10 GPM/S.F/ OVER THE MOST REMOTE 1500 S.F.. A REDUCTION IN AREA MAY BE CONSIDERED FOR THE USE OF QUICK RESPONSE HEADS IN ACCORDANCE WITH NFPA 13. A 100 GPM HOSE STREAM ALLOWANCE

3.5. THE MECHANICAL SPACES SHALL BE DESIGNED AS ORDINARY HAZARD GROUP 1, WITH 0.15 GPM/S.F. OVER THE MOST REMOTE 1500 S.F. (WET SYSTEMS). A REDUCTION IN AREA MAY BE CONSIDERED FOR WET SYSTEMS FOR THE USE OF QUICK RESPONSE HEADS IN ACCORDANCE WITH NFPA 13. A 250 GPM HOSE ALLOWANCE SHALL BE PROVIDED.

3.6. THE SPRINKLER SYSTEM SHALL BE AN AUTOMATIC WET SYSTEM WITH ONE WET RISER. THE SYSTEM SHALL BE MONITORED BY ONE WET ALARM CHECK VALVE.

SPRINKLERS SHALL BE INSTALLED IN ALL AREAS OF THE BUILDING. INCLUDING ROOMS

CONTAINING ELECTRICAL EQUIPMENT. A MAIN DRAIN TEST CONNECTION, ZONE TEST CONNECTIONS, FLUSHING CONNECTIONS, AUXILIARY DRAINS, CORROSION MONITORS, AND AIR VENTING VALVES SHALL BE PROVIDED

AS PART OF THE SYSTEM AND SHALL BE IDENTIFIED ON THE SHOP DRAWINGS.

HORIZONTAL DRAINAGE PIPING RUNS LONGER THAN 10 FEET SHALL PITCHED DOWNWARD TOWARDS THE DRAIN OUTLET AT $\frac{1}{4}$ " PER 10 FEET (0.119°).

3.10. SPRINKLER SYSTEMS SHALL BE INSTALLED BY A LICENSED SPRINKLER CONTRACTOR WITH LICENSED SPRINKLER FITTERS.

4. PIPE HANGERS:

4.1. PIPE HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND THESE DRAWINGS.

4.2. NO OTHER PIPING OR DEVICES ARE TO BE ATTACHED TO SPRINKLER PIPE HANGING

4.3. PIPING SHALL BE INSTALLED WITH EARTHQUAKE BRACING IN ACCORDANCE WITH NFPA 13 AND THE MASSACHUSETTS STATE BUILDING CODE.

SPRINKLERS:

SPRINKLERS SHALL BE QUICK RESPONSE AND ORDINARY TEMPERATURE—RATED UNLESS NOTED OTHERWISE.

SPARE SPRINKLERS SHALL BE PROVIDED IN A SPARE SPRINKLER CABINET IN AN APPROVED LOCATION IN ACCORDANCE WITH NFPA 13. A POSTED LIST OF QUANTITIES AND TYPES OF SPARE SPRINKLERS SHALL BE INCLUDED. ONE SPARE SPRINKLER WRENCH PER SPRINKLER MANUFACTURER SHALL BE INCLUDED. SPARE DRY BARREL TYPE SPRINKLERS SHALL NOT BE BE REQUIRED. POSTED SPRINKLER LIST SHALL HAVE AN ISSUE DATE AND

5.3. REFER TO SPRINKLER HEAD SCHEDULE FOR SPECIFIC SPRINKLER MODELS. SUBMITTALS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL FOR ALL SPRINKLERS HEADS INCLUDING THOSE NOT LISTED IN THIS CHART. APPROVED SPRINKLER HEADS SHALL BE INCLUDED IN FP CONTRACTORS' HYDRAULIC CALCULATIONS.

6. WET SYSTEM PIPE:

ALL 2½" AND LARGER PIPING SHALL BE ASTM A53 OR ASTM A795 BLACK STEEL SCHEDULE 10 PIPE WITH GROOVED CONNECTIONS, SYSTEM PIPING MAY BE OF AN ALTERNATIVE MATERIAL, SUCH AS CPVC (ASTM F442), PROVIDED IT IS USED IN LIGHT HAZARD AREAS AND LISTED FOR SUCH USE.

6.2. ALL 1" THROUGH 2" PIPING SHALL BE ASTM A53 OR ASTM A795 BLACK STEEL SCHEDULE 40 PIPE WITH THREADED CONNECTIONS. SYSTEM SYSTEM PIPING MAY BE OF AN ALTERNATIVE MATERIAL, SUCH AS CPVC (ASTM F442), PROVIDED IT IS USED IN LIGHT HAZARD AREAS AND LISTED FOR SUCH USE.

6.7. ALL DRAIN PIPING SHALL BE A53 OR ASTM A795 BLACK STEEL SCHEDULE 40 PIPE WITH

6.8. ALL FDC PIPING BETWEEN FDC OUTLET AND CHECK VALVE WITH BALL DRIP SHALL BE ASTM A53 OR ASTM A795 HOT DIPPED GALVANIZED STEEL SCHEDULE 40 PIPE WITH GROOVED CONNECTIONS.

7. FLOW DATA:

7.1. ALL HYDRANT FLOW TEST DATA MUST BE VERIFIED.

THREADED CONNECTIONS.

7.2. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO SCHEDULE, PAY FOR, AND PERFORM A HYDRANT FLOW TEST TO BASE THEIR CALCULATIONS AND DESIGN

8. PENETRATIONS:

SPRINKLER PIPING PENETRATIONS SHALL BE SEALED OR FIRESTOPPED PER THESE PLANS, THE STATE BUILDING CODE, AND THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

8.2. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PROTECTED BY A LISTED THROUGH PENETRATION FIRE STOP SYSTEM WHICH UTILIZES FLEXIBLE FIRE STOP MATERIAL

8.3. PENETRATIONS THROUGH NON-RATED ASSEMBLIES SHALL BE SEALED SUCH THAT THE ANNUAL SPACE BETWEEN THE BETWEEN THE PIPE SLEEVE OR COORED OPENING AND THE PIPE OR INSULATION IS COMPLETELY BLOCKED.

COORDINATION:

9.1. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES AND HEIGHTS, LOCATIONS OF LIGHTS, AND OTHER CEILING COORDINATION ITEMS.

9.2. SPRINKLER HEADS IN A.C.T. CEILINGS SHALL BE LOCATED IN THE CENTER OF A TILE.

9.3. SPRINKLER PIPING AND SPRINKLERS SHALL NOT BE DIRECTLY OVER ELECTRICAL

SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH HVAC GRILLES AND DIFFUSERS AND OTHER HEAT SOURCES. INTERMEDIATE OR HIGH TEMPERATURE HEADS SHALL BE USED WHERE MINIMUM DISTANCES TO CANNOT BE MAINTAINED. REFER TO NFPA 13 AND THESE DRAWING DETAILS.

SPRINKLER SCHEDULE											
SYMBOL	SIZE	STYLE	MAKE	FINISH	MODEL#	SIN	TEMP(F) U.N.O.	K-FACTOR	RESPONSE	COVERAGE	
0	1/2	UPRIGHT**	TYC0	BRASS	TY-FRL	TY3121	155	5.6	QUICK	STANDARD	
⊙ PS	1/2	UPRIGHT, CORROSION RESISTANT	TYC0	POLY-STAINLESS	TY-FRB	TY3131	155	5.6	QUICK	STANDARD	
◀	1/2	SIDEWALL	TYCO	WHITE	TY-FRB	TY3331	155	5.6	QUICK	STANDARD	
0	1/2	CONCEALED PENDENT	TYCO	WHITE	RFII	TY3531	155	5.6	QUICK	STANDARD	
O _{CC1}	1/2	UPRIGHT, CONCEALED COMBUSTIBLE	TYCO	BRASS	CC1	TY1189	175	2.8	QUICK	DATASHEET*	
O _{CC2}	1/2	UPRIGHT, CONCEALED COMBUSTIBLE	TYCO	BRASS	CC2	TY3189	175	5.6	QUICK	DATASHEET*	

** "CG" DENOTES HEAD CAGE.

SYMBOL LEGEND SYMBOL DEFINITION SPRINKLER NEW SPRINKLER EXISTING SPRINKLER REMOVED PIPE ELBOW DOWN PIPE TEE DOWN \rightarrow PIPE RISER UP PIPE CAP PIPE CHECK VALVE PIPE CHECK VALVE WITH BALL DRIP OS&Y GATE VALVE BUTTERFLY VALVE FLOW SWITCH PRESSURE GAUGE ALARM BELL \bigcup FIRE DEPARTMENT CONNECTION - BALL VALVE HOSE VALVE DRAIN OUTLET DRY PIPE SYSTEM +(-\\$ DRAIN VALVE CORROSION MONITOR AIR VENTING VALVE (C) HYDRANT ZONE CONTROL ASSEMBLY 8 \$ <u>\$ \$ \$ \$ \$</u> WITH RISER & DRAIN REVISION DELTA TAG HYDRAULIC TAG AREA OF PERMISSIBLE SPRINKLER OMISSION

FIRE PROTECTION

ARCHITECT

bh+a

Boston, MA 02210

PROJECT NAME

227 Dudley Street

25 Dorrance Street

PROJECT TEAM

4 California Street Ste. 301

Narragansett Engineering, Inc.

Framingham, MA 01701

Civil Engineer

508-875-2657

Land Surveyor

401-683-6630

3102 East Main Road

Portsmouth, RI 02871

Structural Engineer

RSE Associates, Inc.

Watertown, MA 02472

64 Pleasant Street

MEP/FP Engineer

270 Littleton Road, Ste. 11

Westford, MA 01886

978-443-7888

REVISIONS

DRAWING TITLE

FIRE PROTECTION

Notes & Details

DRAWING INFORMATION

John Wood

ESSIONAL ENGINEE

(Mechanical)

Allied Consulting Engineering Services,

617-926-9300

Providence, RI 02903

Providence, RI 02907

Davey Lopes

(617) 350 0450

Baramann Hendrie + Archetype, Inc.

9 Channel Center Street, Suite 300

Recreation Center

City of Providence

—	PROTECTION ATION LEGEND
ABBREVIATION	DEFINITION
FP	FIRE PROTECTION
UP	UP
DN	DOWN
AFF	ABOVE FINISH FLOOR
TS	TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
TOR	TOP OF RISER
BOR	BOTTOM OF RISER
FDC	FIRE DEPARTMENT CONNECTION
PIV	POST INDICATOR VALVE
ACV	ALARM CHECK VALVE
DACV	DRY ALARM CHECK VALVE
DCVA	DOUBLE CHECK VALVE ASSEMBLY
RPZ	REDUCED PRESSURE ZONE ASSEMBLY
TYP	TYPICAL
UD	UNDER DUCT
CG	SPRINKLER HEAD CAGE
SP	STANDPIPE
PRV	PRESSURE REDUCING VALVE
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED

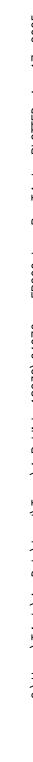
FIRE PROTECTION LINE LEGEND				
LINE NEW	LINE EXIST	DEFINITION		
	—— ExV——	WET PIPE LINES		
— SP —	—— E×SP ——	STANDPIPE LINES		
— u —	— ExDr —	DRAIN PIPE		
— FDC —	— ExFDC —	FIRE DEPARTMENT CONNECTION PIPE		

THICK LINEWEIGHT DENOTES EITHER NEW OR DEMO. THINNER LINEWEIGHT DENOTES EXISTING.

HYDRANT FLOW TEST:

RESIDUAL PRESSURE: 55 PSI*
RESIDUAL FLOW: 1000 GPM* *USED AS CONSERVATIVE ASSUMPTION. SEE NOTES REGARDING CONTRACTOR FLOW TEST

IT SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO PROVIDE SPRINKLER COVERAGE IN ALL CONCEALED COMBUSTIBLE SPACES IN ACCORDANCE WITH NFPA 13. SPRINKLER COVERAGE IN CONCEALED COMBUSTIBLE SPACES SHALL BE ACCOMPLISHED USING SPRINKLER HEADS SPECIFICALLY LISTED FOR THE APPLICATION



TOLCO FIG. 800

ATTACHMENT TO

TOLCO FIG.

910 SWIVEL

FITTING —

SWAY BRACE

1"(L=84" MAX) OR

STRUCTURE

PIPE (L = 9'-0" MAX)

GROOVED CHECK VALVE/PRESSURE GAUGE (TYP)-

ALARM CHECK VALVE

THRU PARTITIONS, WALLS, & FLOORS

MAIN SYSTEM

WITH PRESSURE SWITCH-

WITH ½" BALL DRIP —✓

1. ALL TAMPER, PRESSURE, AND FLOW

FIRE PROTECTION SERVICE ENTRANCE AND EQUIPMENT

PROVIDE PROVIDE ESCUTCHEON PLATED IN

EXPOSED AREAS. REFER TO ARCHITECTURE

PLANS REGARDING ESCUTCHEON FINISH .

FINISH FLOOR

TYPICAL PENETRATION DETAIL

SWITCHES SHOWN SHALL BE TIED INTO

THE FIRE ALARM SYSTEM BY OTHERS.

OUTLINE (TYP) -

SYSTEM —

 $1\frac{1}{4}$ "(L=9'-0" MAX)

- TOLCO FIG. 4A

PIPE CLAMP

FOR SWAY

TYPICAL PIPE HANGING AND SUPPORT DETAILS

BUTTERFLY VALVE WITH

PREVENTION DEVICE

FORWARD FLOW

TAMPER SWITCH (N.C.) -

STEEL I-BEAM —

SWAY BRACE

N.T.S

DRAWING NUMBER

ARCHITECT

bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center

227 Dudley Street Providence, RI 02907

CLIENT

City of Providence
25 Dorrance Street

PROJECT TEAM

Providence, RI 02903

Civil Engineer CDW 4 California Street Ste. 301

Framingham, MA 01701 508-875-2657 **Land Surveyor**

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer

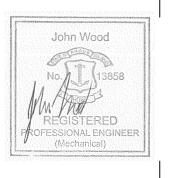
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REVISIONS

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PLUMBING Basement Demo Plan

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Construction Documents
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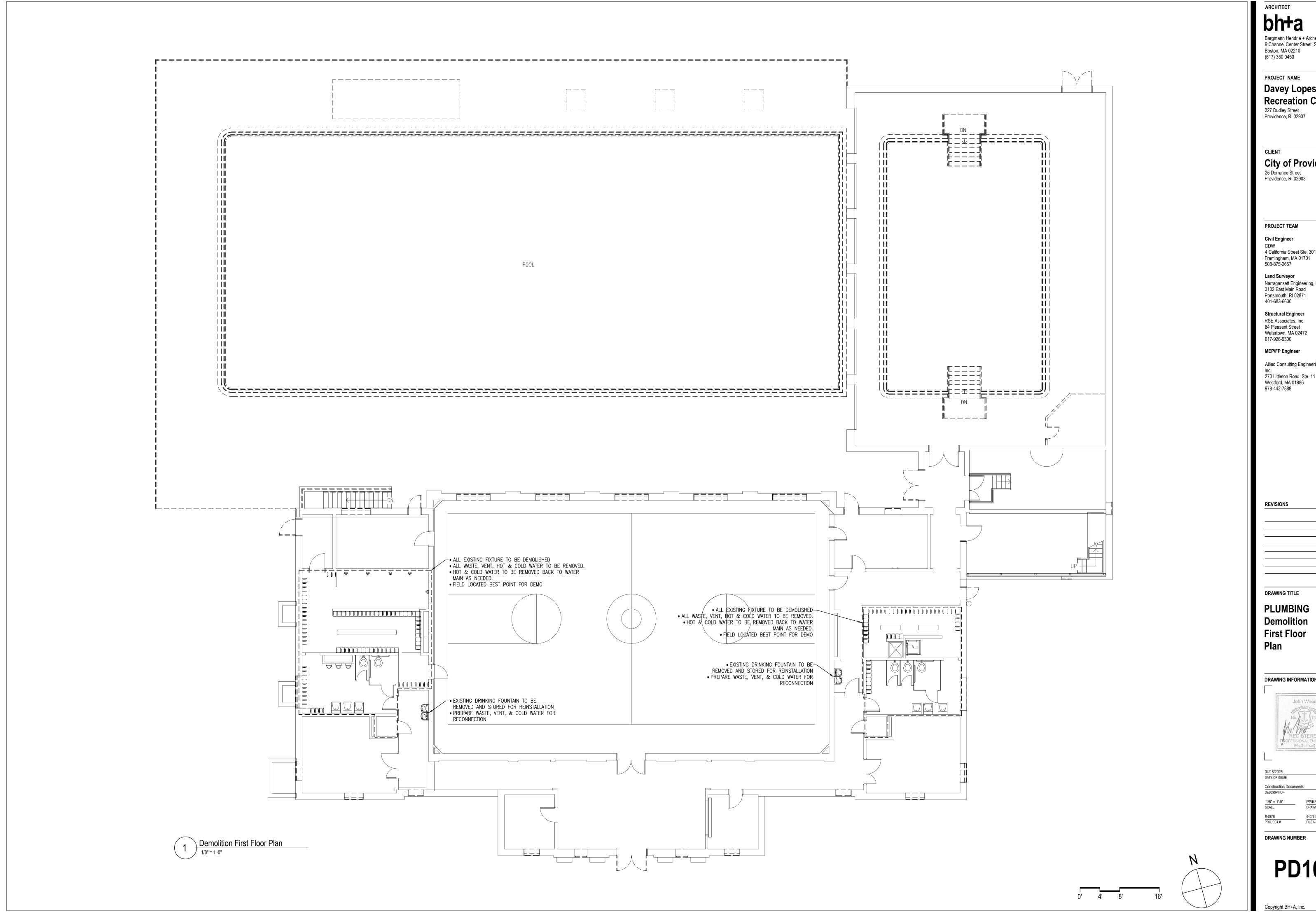
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Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210

Davey Lopes Recreation Center

City of Providence

4 California Street Ste. 301 Framingham, MA 01701

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

Allied Consulting Engineering Services,

PLUMBING Demolition First Floor

DRAWING INFORMATION



DRAWING NUMBER

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210

Davey Lopes **Recreation Center**

227 Dudley Street Providence, RI 02907

City of Providence 25 Dorrance Street

4 California Street Ste. 301 Framingham, MA 01701

Portsmouth, RI 02871

RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

PLUMBING Demolition Second

DRAWING INFORMATION



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Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210

Davey Lopes Recreation Center

City of Providence

4 California Street Ste. 301 Framingham, MA 01701

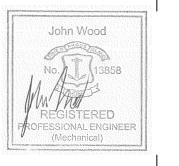
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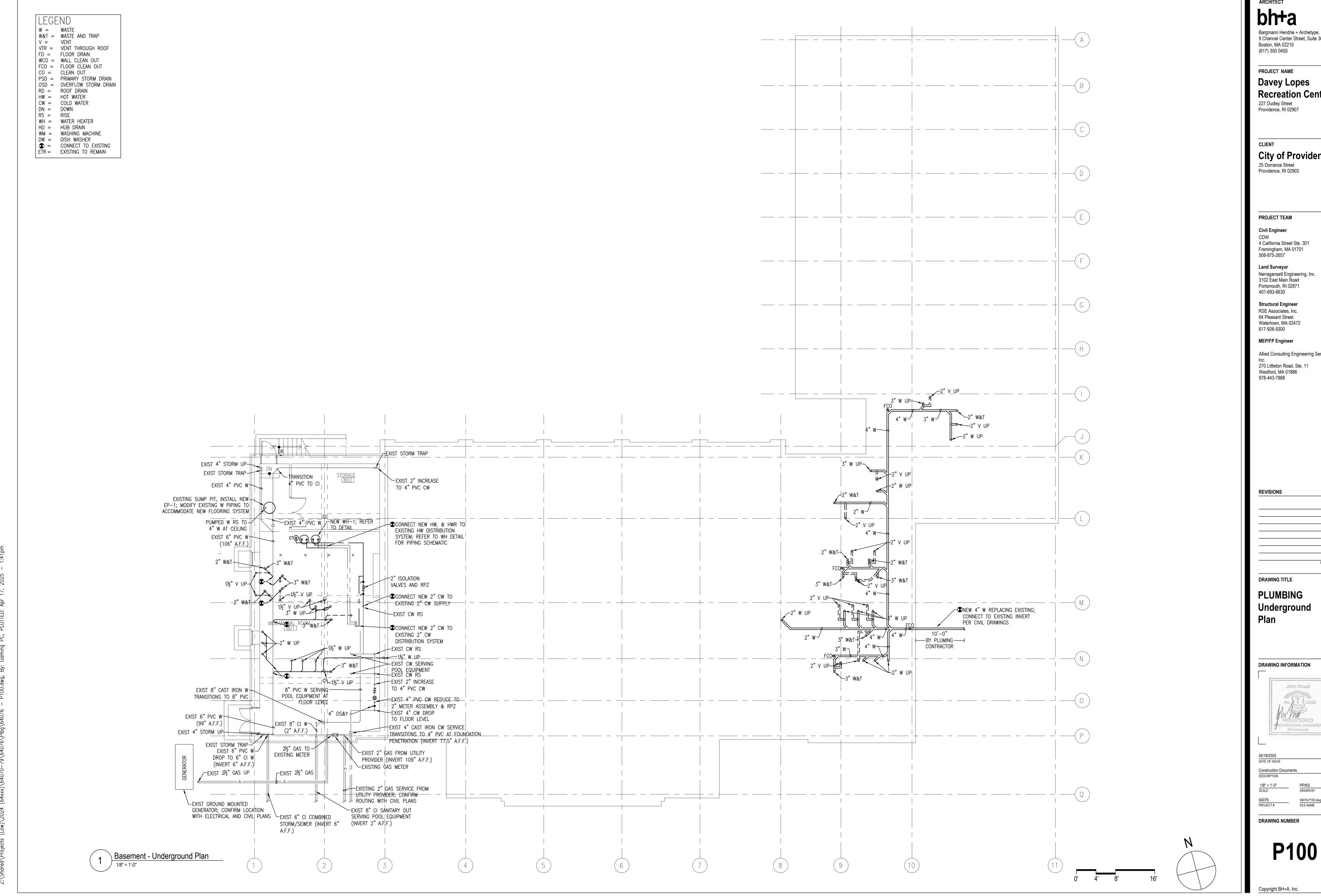
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PLUMBING Demolition Roof Plan

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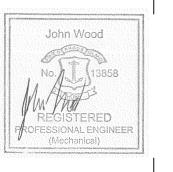


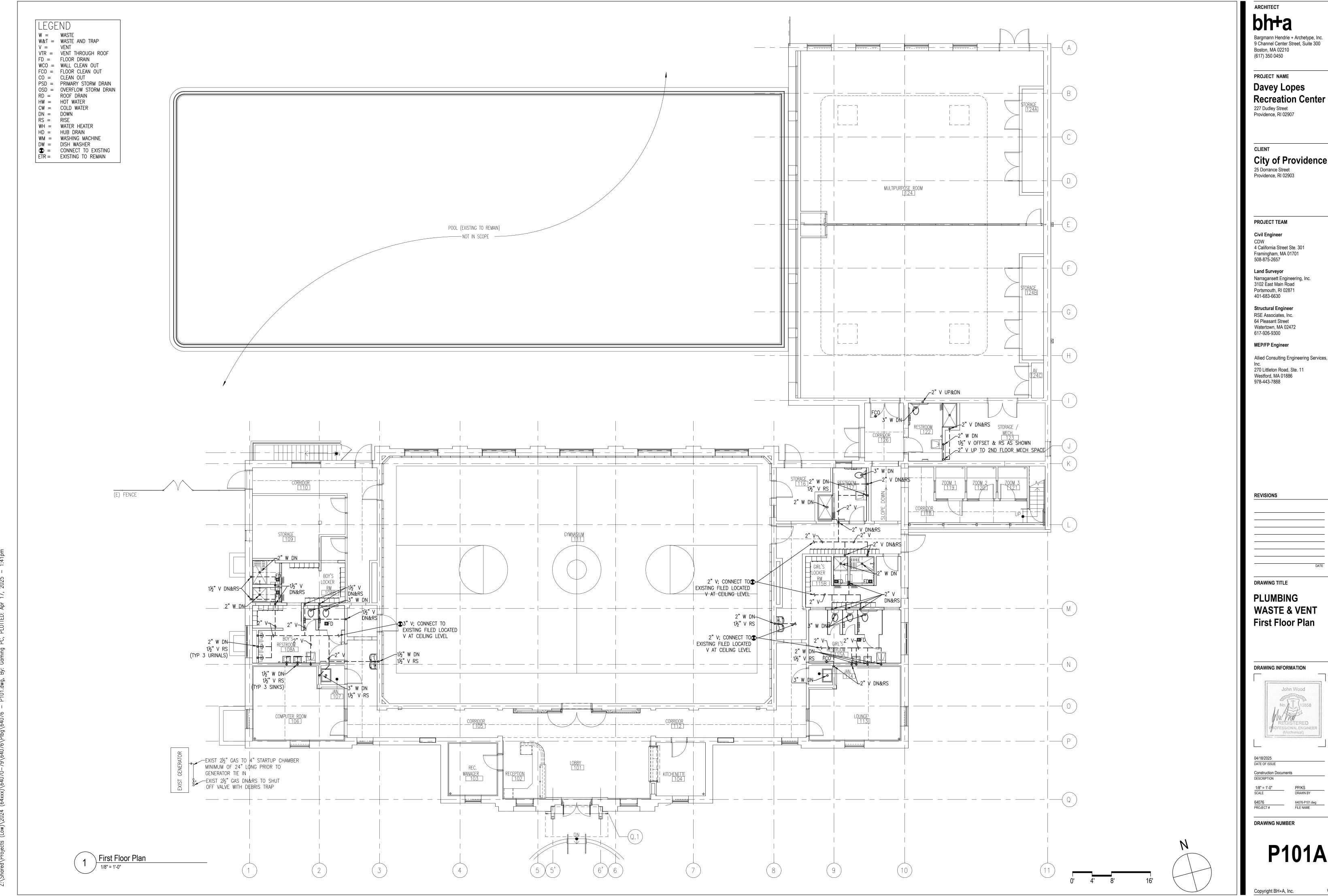
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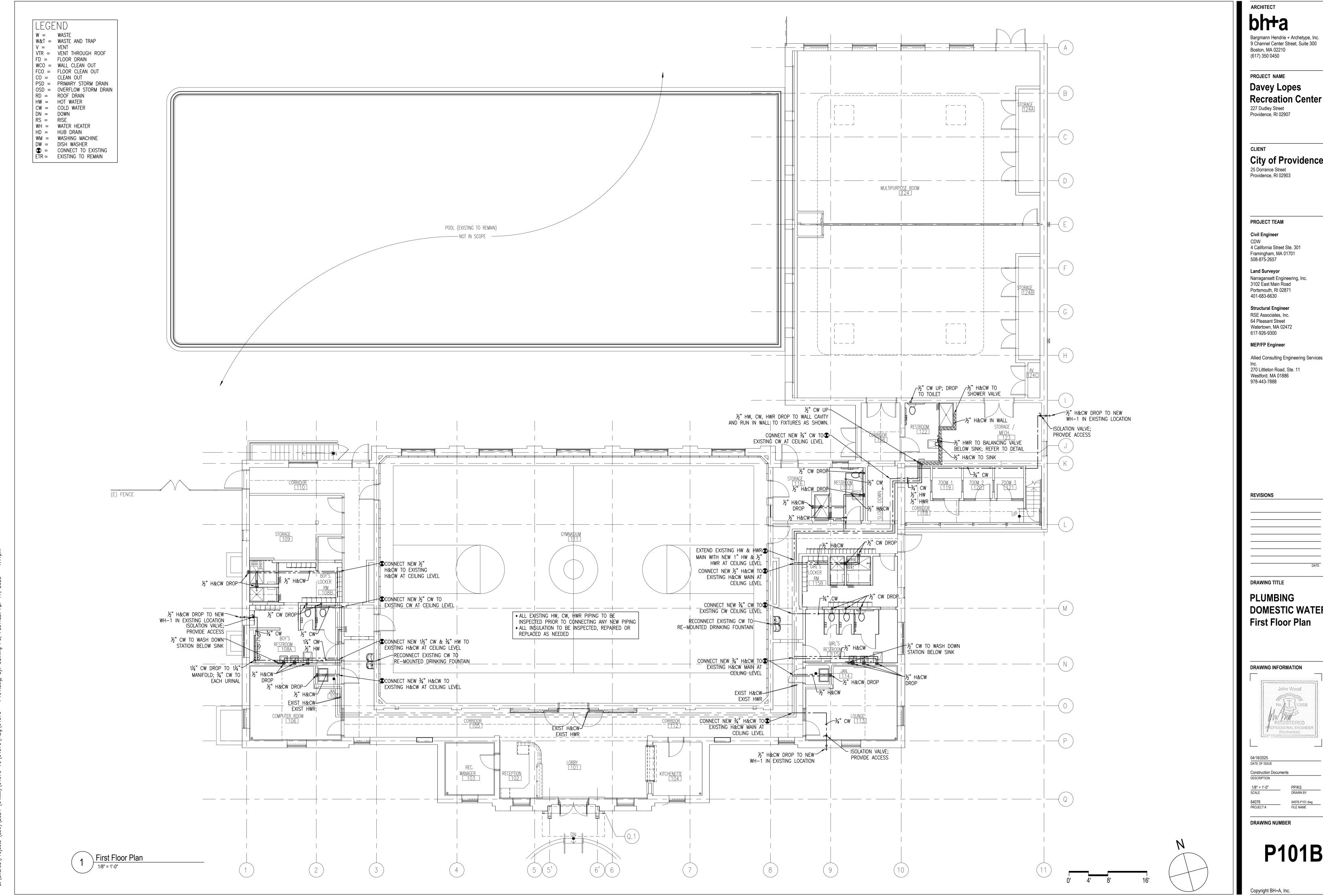


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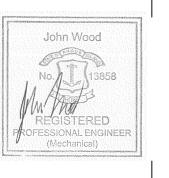
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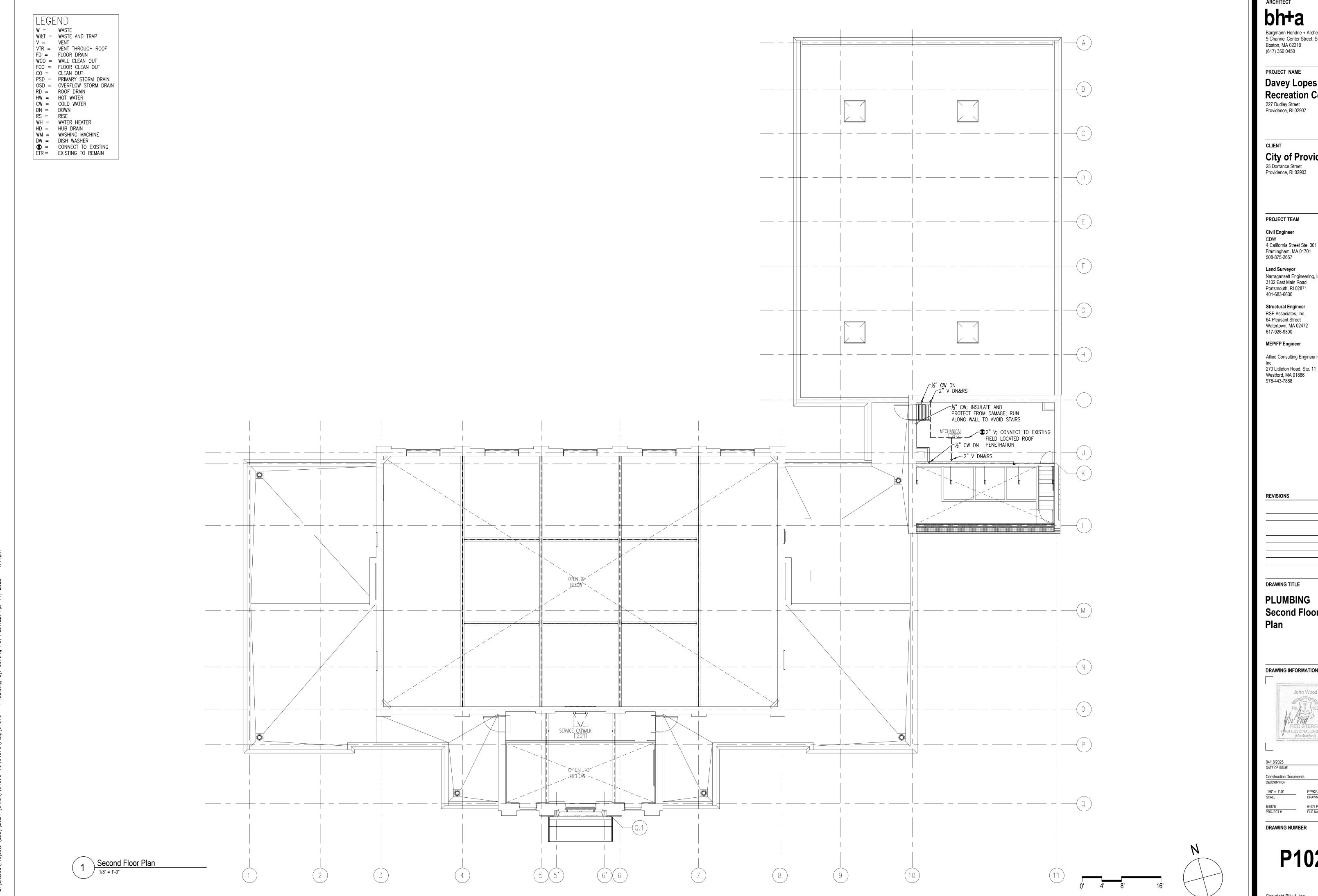
City of Providence

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DOMESTIC WATER First Floor Plan



P101B



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Davey Lopes Recreation Center

City of Providence

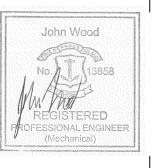
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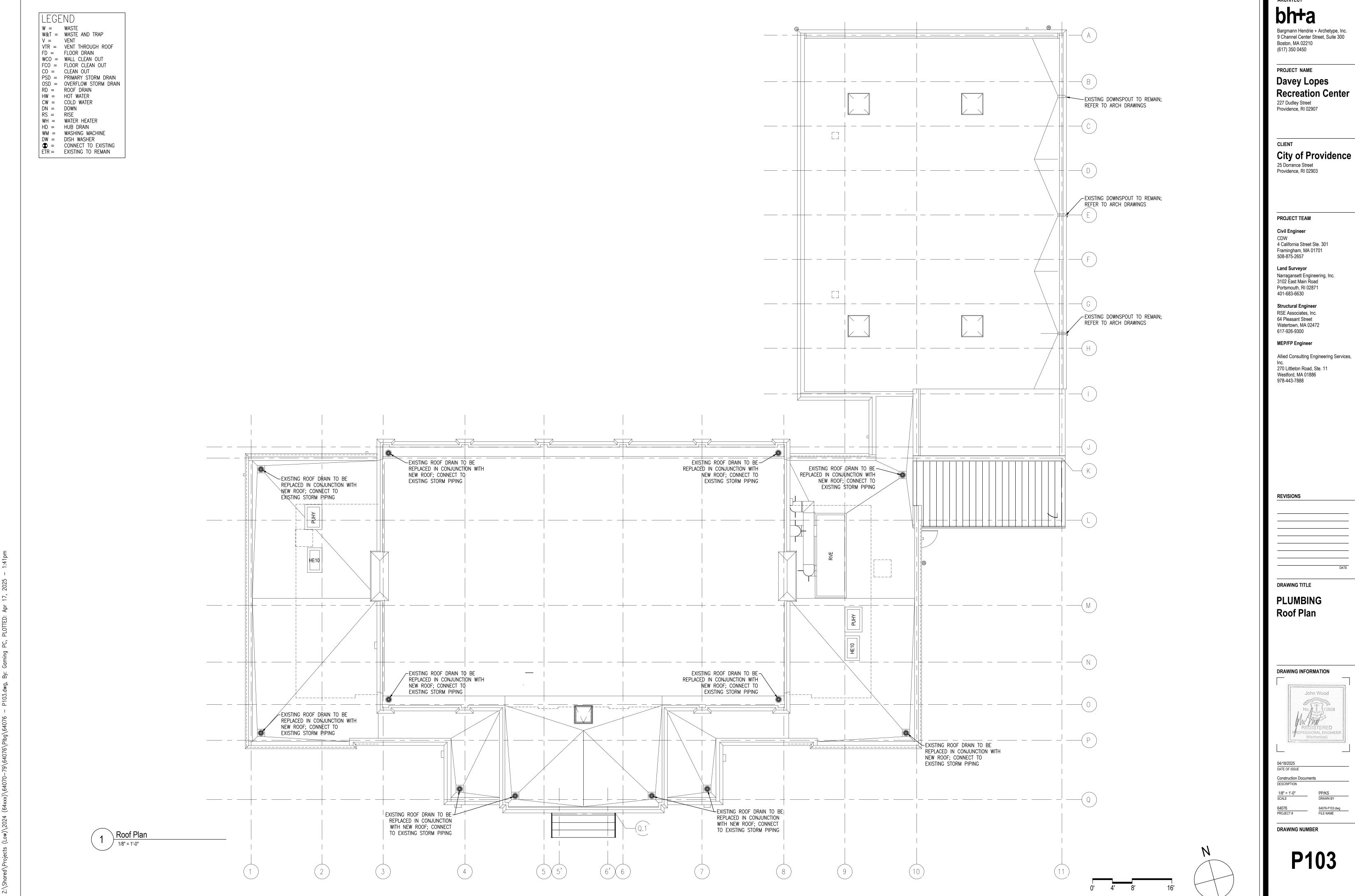
Narragansett Engineering, Inc. 3102 East Main Road

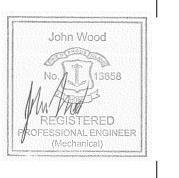
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Second Floor

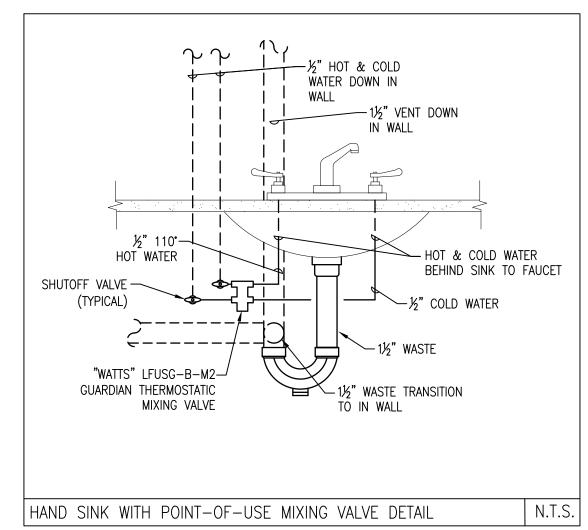
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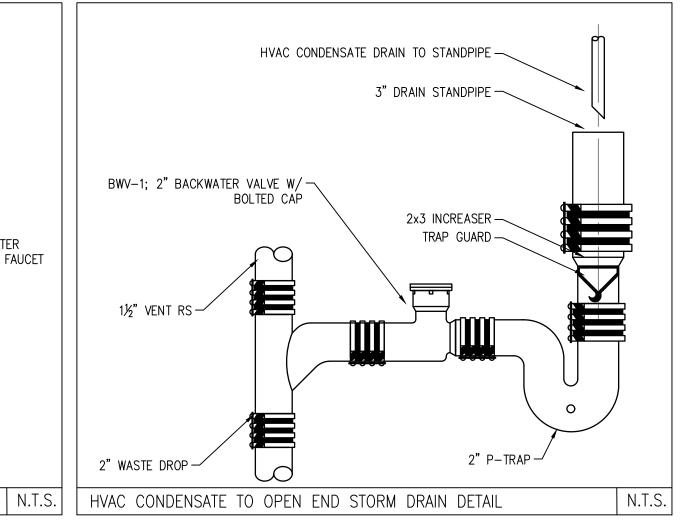


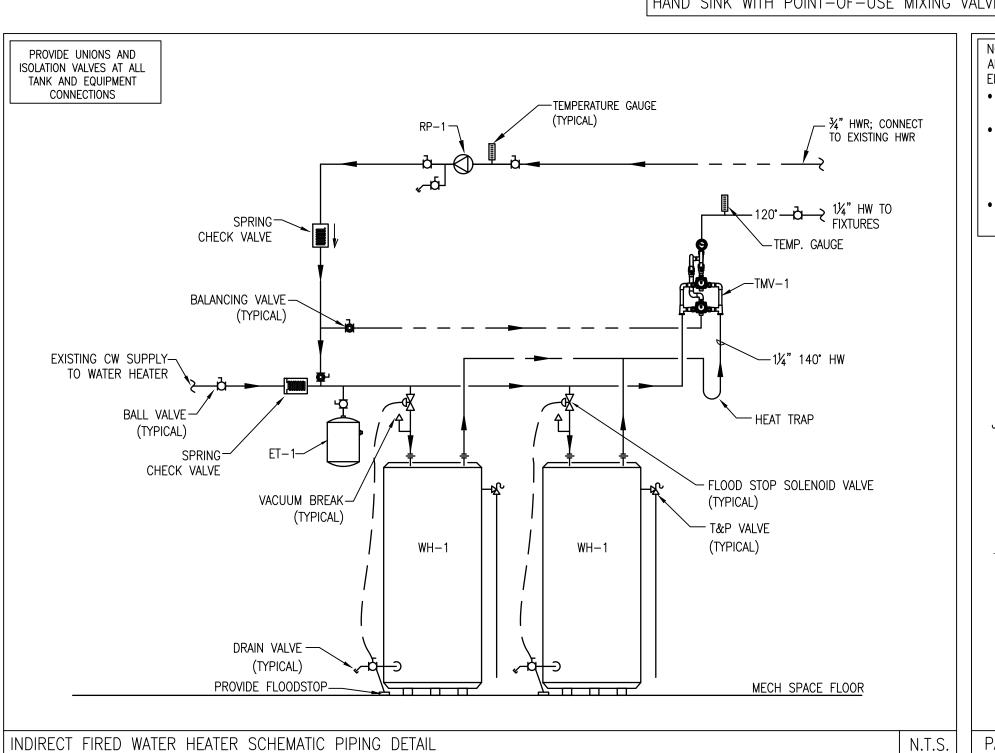


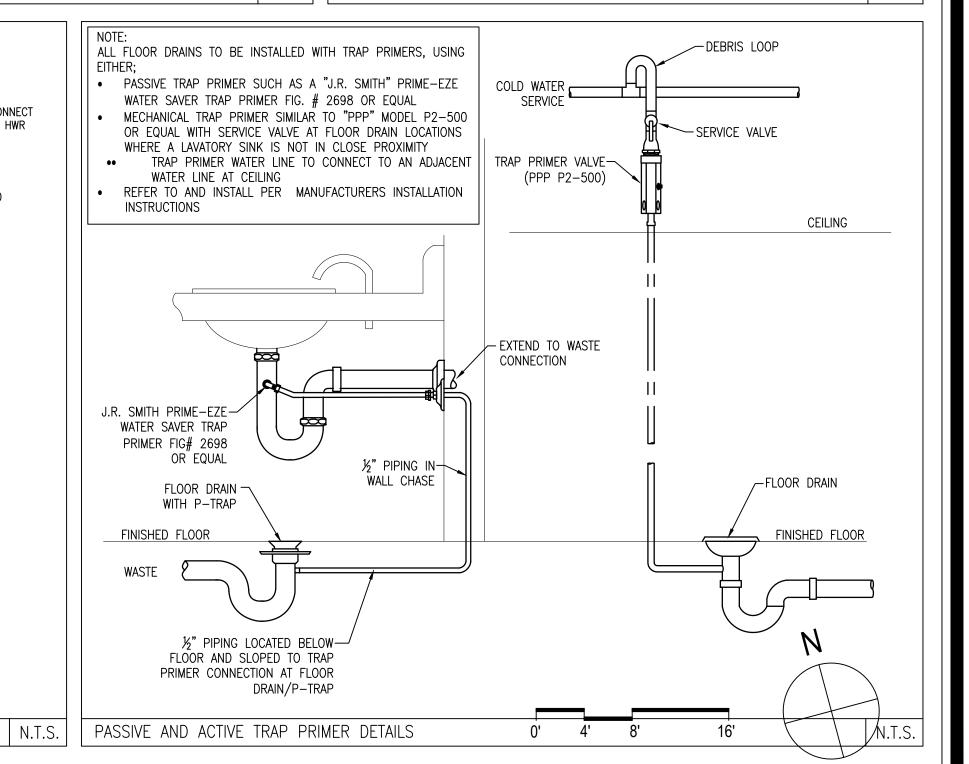


NOTE:	THIS LEGEND IS ALL INCLUSIVE A	ND SOME OF THE PIPING SYSTEMS INDICATED MAY	NOT BE PART OF THIS PROJECT OR TO SCALE.	
ABBREV	DESCRIPTION	LINE TYPE	DESCRIPTION	PIPING ABBREVIATIONS
91119	BACKFLOW PREVENTER	\ <u>\</u>	= CW (COLD WATER)	W – WASTE
<u>cg@gWə</u>	BACKFLOW PREVENTER & WATER METER	<u> </u>	HW (HOT WATER)	W&T - WASTE AND TRAP
<u> </u>	WATER METER	S	= HWR (HOT WATER RETURN)	V – VENT
1 3	BALL VALVE – CLOSED	S G — S	= GAS (GAS LINE ABOVE GROUND)	FD - FLOOR DRAIN
2 g	BALL VALVE - OPEN	\(\frac{115}{}	= 115° TEMPERATURE (HOT WATER)	FCO - FLOOR CLEAN OUT
9	GATE VALVE - CLOSED	S——125°——————————————————————————————————	= 125° TEMPERATURE (HOT WATER)	CO – CLEAN OUT
=	GATE VALVE - OPEN	S——140°——————————————————————————————————	= 140° TEMPERATURE (HOT WATER)	HW — HOT WATER
─ 	BUTTERFLY VALVE	<u> </u>	= TEMPERED WATER	CW — COLD WATER
	CAP	S GW	= GRAY WATER/GREASE WASTE	H&CW — HOT AND COLD WATER
─ CO	CLEAN-OUT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	= DEMO	DN - DOWN
	DIRECTION OF FLOW	/ \	= S OR W (SANITARY WASTE)	RS — RISE PSD — PRIMARY STORM DRAIN
\rightarrow \righ	DRAIN VALVE	STORM ————	= STORM (STORM PIPING)	OSD — OVERFLOW STORM DRAIN
 5	ELBOW DOWN/DROP	\ <u>\</u>	= VENT (VENT PIPING)	RD — ROOF DRAIN
o	ELBOW UP/RISE	S— CA—— CA—— CA—— S	= COMPRESSED AIR	NO NOOF BIVIN
Ø FCO	FLOOR CLEANOUT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	= VACUUM	
☐ FD	FLOOR DRAIN	<u> </u>	= CW (COLD WATER UNDERGROUND PIPING)	
⊠ AD	AREA/GARAGE DRAIN	<u> </u>	= HW (HOT WATER UNDREGROUND PIPING)	
⊠ PD	PROMENADE DRAIN	<u></u>	= HWR (HOT WATER RETURN U.G. PIPING)	
∑ GD	GREEN DRAIN	<u> </u>	= GAS (GAS LINE UNDERGROUND PIPING)	
FS	FLOOR SINK	5	= S OR W (SANITARY WASTE U.G.)	
	GAS REGULATOR	STORM —	= STORM (STORM PIPING U.G.)	
— ↓	GATE VALVE	<u> </u>	= VENT (VENT PIPING U.G.)	
	HOSE BIBB	X—————————————————————————————————————	, ,	
	LAUNDRY BOX		,	
	CONNECT TO EXISTING RECIRCULATING PUMP			
\triangle	REVISION DELTA			
— ○RD	ROOF DRAIN			
Į	THERMOMETER			
 	UNION			
x	WASTE & TRAP			









architect bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes
Recreation Center

227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer
CDW
4 California Street Ste. 301
Framingham, MA 01701
508-875-2657

Land Surveyor
Narragansett Engineering, Inc.
3102 East Main Road
Portsmouth, RI 02871

401-683-6630

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64 Pleasant Street

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MEP/FP Engineer

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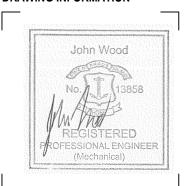
Inc. 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

REVISIONS

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PLUMBING Details

DRAWING INFORMATION



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1/8" = 1'-0" PP/KS

 1/8" = 1'-0"
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 SCALE
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 FILE NAME

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PLUMBING FIXTURE SPECIFICATION SCHEDULE

				FIXTURE			FITTING					
DESIGNATION	SYMBOL	MANUFACTURER	MODEL	TYPE	SIZE	MANUFACTUERER/ MODEL#	TYPE	SUPPLY	TRAP	CARRIER	LOCATION	REMARKS
P-1	LAV	AMERICAN STANDARD	DECORUM / 9024.004EC	WALL MOUNT	18¼"x20"x5"	AMERICAN STANDARD RELIAT 3 / 7385.058	SINGLE HANDLE	½" H&CW	1½" W	AS NEEDED	AS SHOWN	521 CMR INSTALLATION AS REQUIRED
P-2	TOILET	AMERICAN STANDARD	YORKVILLE / 209AA137	FLOOR MOUNT TANK TYPE	30¾ ₆ "x18"x32 ¹ ¾ ₆ "	N/A	N/A	½" CW	INTERGRAL	N/A	AS SHOWN	521 CMR INSTALLATION AS REQUIRED. PROVIDE WITH OPEN FRONT SEAT
P-3	SHOWER	AQUATIC	13636BFRFMA	NON ADA SHOWER	36"x36"x75"	AMERICAN STANDARD / RELIANT 3 TU385501	SINGLE HANDLE	½" H&CW	2" W	N/A	AS SHOWN	521 CMR INSTALLATION AS REQUIRED; PROVIDE WITH RU101SS SHOWER VALVE BODY
P-4	ADA SHOWER	AQUATIC	1603BFSTMA	ADA ROLL IN SHOWER	60"x34"x75¼"	AMERICAN STANDARD / TU662.213	SINGLE HANDLE ADA SHOWER TRIM KIT	½" H&CW	2" W	N/A	AS SHOWN	521 CMR INSTALLATION AS REQUIRED
P-5	URINAL	AMERICAN STANDARD	WASHBROOK / 6590.001	WALL MOUNT FLUSH VALVE	14%"x187%"x26%"	AMERICAN STANDARD / 6045.101.002	SINGLE HANDLE FLUSH VALVE	¾" CW	INTERGRAL	N/A	AS SHOWN	521 CMR INSTALLATION AS REQUIRED, 1GPF MANUAL FLUSH VALVE
P-6	MOP SINK	FIAT	MSB2424	FLOOR MOUNT	24"x24"x10"	FIAT / 830AA	DUAL HANDLE WALL MOUNT	½" H&CW	3" W	N/A	AS SHOWN	521 CMR INSTALLATION AS REQUIRED

. FOR EXACT LOCATION OF PLUMBING FIXTURES SEE ARCHITECTURAL DRAWINGS.

- 2. EXAMINE ALL CONTRACT DRAWINGS, GENERAL CONDITIONS AND SPECIFICATIONS WHICH MAY AFFECT THE WORK.

 3. ALL PLUMBING WORK MUST BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH INSTALLATION.
- 3. ALL PLUMBING WORK MUST BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH INSTALLATION.
 4. NO CHANGES ARE TO BE MADE IN PLUMBING LAYOUT WITHOUT WRITTEN PERMISSION OF THE ARCHITECT.
- 5. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
 6. IRRESPECTIVE OF WHAT IS IDENTIFIED ON THE DRAWINGS, ALL PLUMBING SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LOCAL AND
- STATE PLUMBING CODES.

 7. POLICH—IN DIMENSIONS OF TOURT FLYTLIPES MUST BE COORDINATED WITH CENERAL CONTRACTOR
- 7. ROUGH—IN DIMENSIONS OF TOILET FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR.

 8. INSTALL ALL HOT AND COLD WATER PIPING AS PER SPECIFICATIONS.
- 9. INSTALL SHUTOFF VALVES ON ALL BRANCH SUPPLY LINES AND AT THE BASE OF HOT AND COLD WATER RISERS.

 10. ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THEIR LOCATIONS.
- 11. INSTALL ALL FLOOR CLEANOUTS TO CLEAR EQUIPMENT.
 12. THE PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND CHARGES IN CONNECTION WITH THEIR WORK.
- 13. THE PLUMBING CONTRACTOR SHALL PROVIDE WATERTIGHT SLEEVES FOR ALL PIPES PASSING THROUGH BASEMENT WALLS.
- 14. INSTALL CLEANOUTS AT THE BASE OF ALL SANITARY STACKS.
 15. INSTALL ALL HORIZONTAL RUNS OF PIPING AS HIGH AS POSSIBLE, PITCH ALL WATER PIPING TO DRAIN, PROVIDE DRAW OFFS AT ALL LOW POINTS.
- 15. INSTALL ALL HORIZONTAL RUNS OF PIPING AS HIGH AS POSSIBLE, PITCH ALL WATER PIPING TO DRAIN, PROVIDE DRAW OFFS AT ALL LO
 16. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO OUTSIDE UTILITIES AS NEEDED.
- 17. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS; NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR WORK THAT MAY HAVE BEEN AVOIDED BY EXAMINING THE EXISTING PIPING ARRANGEMENTS.
- 18. PRIOR TO COMMENCEMENT OF WORK AND UPON COMPLETION OF PIPING INSTALLATION, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A VIDEO INSPECTION OF THE EXISTING AND NEWLY INSTALLED WASTE LINES SERVING THE BUILDING. THE PLUMBING CONTRACTOR SHALL PROVIDE THE BUILDING OWNER A DIGITAL OR VIDEO TAPED COPY OF THE INSPECTION FINDINGS.
- 19. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR CHANGES REQUIRED DUE TO LACK OF ADHERENCE TO THE LOCAL AND STATE PLUMBING CODES.

GENERAL NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING PIPING SERVING FIXTURES AND/OR CONNECTIONS TO EQUIPMENT WHICH ARE
- SHOWN ON PLAN TO BE REMOVED.
 2. FIELD VERIFY POINTS OF NEW CONNECTION TO EXISTING PRIOR TO PERFORMING WORK AND PURCHASING MATERIALS.
- 3. ALL DEMOLITION WORK SHALL BE PERFORMED IN A SAFE AND ACCEPTABLE MANNER TO THE AHJ AND BUILDING OWNER
 4. ALL DRAINAGE AND VENT PIPING REMOVAL SHALL BE PERFORMED SUCH THAT NO "DEAD ENDS" EXIST WHEN DEMOLITION IS COMPLETE.
- 5. REMOVE ALL PORTIONS OF PIPING EXPOSED DURING DEMOLITION INCLUDING BUT NOT LIMITED TO WATER, SANITARY WASTE, CONDENSATE WASTE, SANITARY VENT, AND FUEL GAS PIPING. ANY EXPOSED PIPING NOT REQUIRED TO STAY IN OPERATION SHALL HAVE THE EXPOSED PORTION REMOVED AND OPEN ENDS CUT, CAPPED, AND MADE SAFE.
- 6. REMOVE SINKS, TRIM, AND ALL PIPING SERVING SINKS AS NOTED ON PLAN7. REMOVE LAVATORIES, LAVATORY TRIM, AND ALL PIPING SERVING LAVATORIES AS NOTED ON PLAN.
- 7. REMOVE LAVATORIES, LAVATORY TRIM, AND ALL PIPING SERVING LAVATORIES AS NOTED ON PLAN.

 8. REMOVE WATER CLOSETS, WATER CLOSET TRIM, AND ALL PIPING SERVING WATER CLOSET AS NOTED ON PLAN.
- 9. REMOVE EXISTING DOMESTIC HOT WATER GENERATION SYSTEM AND ALL ANCILLARY COMPONENTS AS NOTED ON PLAN.
 10. THE CONTRACTOR SHALL NOT CONSIDER DEMOLITION NOTES AND PLAN TO BE ALL INCLUSIVE. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING
- 10. THE CONTRACTOR SHALL NOT CONSIDER DEMOLITION NOTES AND PLAN TO BE ALL INCLUSIVE. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS; NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR WORK THAT MAY HAVE BEEN AVOIDED BY EXAMINING THE EXISTING PIPING ARRANGEMENTS.

GENERAL DEMOLITION NOTES

SCHEDULE OF ROOF DRAIN

DESIGNATION	NAME	LOCATION	DESCRIPTION
RD-1	ROOF DRAIN	AS SHOWN	"WATTS" RD—300—F ROOF DRAIN WITH DECK FLANGE/ADJUSTABLE EXTENSION EPOXY—COATED CAST IRON BODY WITH FLASHING CLAMP W/INTEGRAL GRAVEL STOP. DECK FLANGE AND ADJUSTABLE EXTENSION. 3" NO—HUB OUTLET. COORDINATE INSTALLATION WITH ARCHITECTURAL DETAILS AND ROOF STRUCTURE

SCHEDULE OF WATER HEATER AND EQUIPMENT

DESIGNATION	NAME	LOCATION	DESCRIPTION
WH-1	ELECTRIC TANK TYPE WATER HEATER	BASEMENT	(2) "AO SMITH" CSB-52, 52 GALLON ELECTRIC TANK TYPE WATER HEATER, 50 GAL STORAGE EA, 109 GPH RECOVERY 149 GALLON FIRST HOUR RATING, 208V3PH, 24KW
RP-1	RECIRC PUMP	BASEMENT	"GRUNDFOS" ALPHA 2 15-55SF, AUTO ADAPT FEATURE, 2 GPM @ 4' HD; 120/1/60. 45W MAX, COMPLIANT WITH NSF161
TMV-1	THERMOSTATIC MIXING VALVE	BASEMENT	"LEONARD" TM-420B-LF-DT NEXT GENERATION HIGH LOW THERMOSTATIC MIXING VALVE, MAX FLOW 16.72GPM, 10PSI MAX PRESSURE DROP
ET-1	THERMAL EXPANSION TANK	BASEMENT	"AMTRO" ST-12C-DD THERMAL EXPANSION TANK, SET PRESSURE TO EQUAL INCOMING PRESSURE

SCHEDULE OF EJECTOR PUMP

DESIGNATION	NAME	LOCATION	DESCRIPTION
EP-1	EJECTOR PUMP	BASEMENT	"ZOELLER" BN140 SIMPLEX PUMP, 70GPM MAX AT 20' HEAD, 115V 12.0AMPS, PROVIDE WITH AUTOMATIC FLOAT SWITCH AND ALARM PANEL

SCHEDULE OF WALL HYDRANT

DESIGNATION	NAME	LOCATION	DESCRIPTION
WH-1	WALL HYDRANT	AS SHOWN	"WOODFORD" MODEL B65 AUTOMATIC DRAINING, FREEZELESS WALL HYDRANTS, SINGLE CHECK HOSE CONNECTION ANTI—SIPHON VACUUM BREAKERS

SCHEDULE OF REDUCE PRESSURE ZONE ASSEMBLY

DESIGNATION	NAME	LOCATION	DESCRIPTION	1
RPZ-1	REDUCED PRESSURE ZONE ASSEMBLY	AS SHOWN	"WATTS" SERIES LF009 LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY, SINGLE ACCESS COVER AND MODULAR CHECK CONSTRUCTION	

PS, _____

REVISIONS

PLUMBING Schedules

bh+a

Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes

Providence, RI 02907

Providence, RI 02903

PROJECT TEAM

4 California Street Ste. 301 Framingham, MA 01701

Narragansett Engineering, Inc. 3102 East Main Road

Civil Engineer

508-875-2657

Land Surveyor

401-683-6630

Portsmouth, RI 02871

Structural Engineer

RSE Associates, Inc.

Watertown, MA 02472

270 Littleton Road, Ste. 11

Westford, MA 01886 978-443-7888

Allied Consulting Engineering Services,

64 Pleasant Street

617-926-9300

MEP/FP Engineer

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

Recreation Center

City of Providence

DRAWING INFORMATION



A/18/2025
ATE OF ISSUE

Construction Documents

ESCRIPTION

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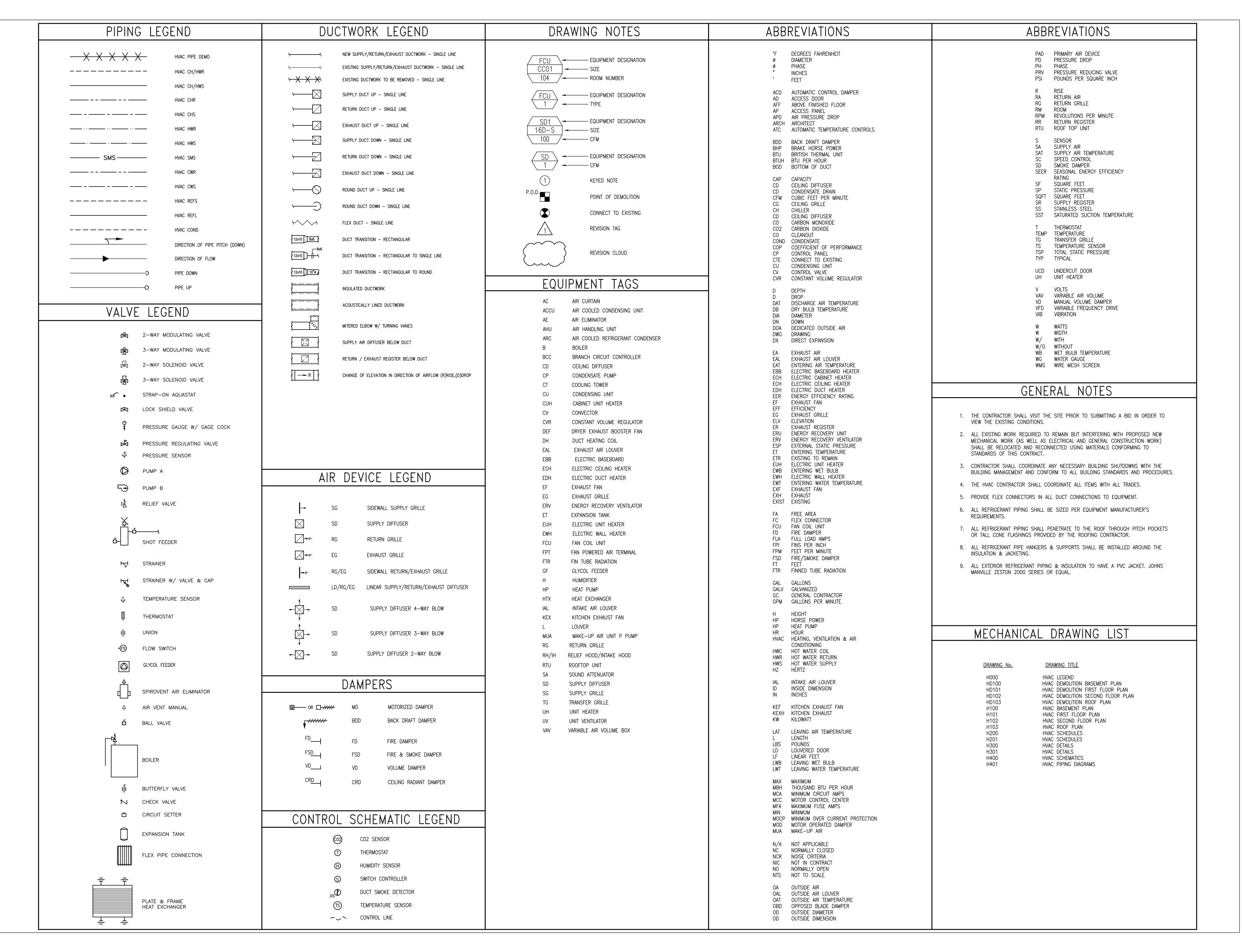
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DRAWING NUMBER

P201

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ARCHITECT

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Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center 227 Dudley Street

Providence, RI 02907

City of Providence 25 Dorrance Street

PROJECT TEAM

Providence, RI 02903

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

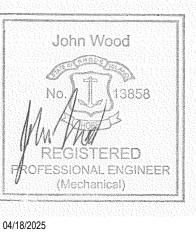
MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

REVISIONS

DRAWING TITLE

HVAC Legend

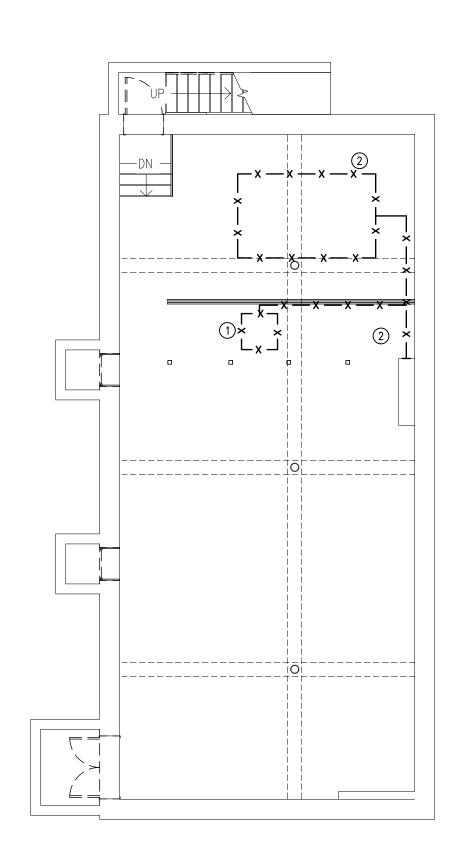


Construction Documents

64076 PROJECT #

DRAWING NUMBER

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1 DISCONNECT & REMOVE EXISTING GAS FIRED UNIT HEATER & ALL ASSOCIATED FLUE PIPING, LOW VOLTAGE CONTROLS & HANGERS.

DISCONNECT & MAKE SAFE THE EXISTING GAS PIPING.

② DISCONNECT & REMOVE EXISTING NON FUNCTIONAL BOILER & ALL ASSOCIATED STORAGE TANKS, PIPING, FLUE BREACHING, HANGERS & SUPPORTS.



HVAC DEMO KEYED NOTES:

• COORDINATE WITH PLUMBING CONTRACTOR TO

COORDINATE WITH ELECTRICAL CONTRACTOR TO DISCONNECT EXISTING POWER WIRING.

ARCHITECT

bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center

227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer CDW 4 California Street Ste. 301 Framingham, MA 01701

508-875-2657 Land Surveyor

Narragansett Engineering, Inc.
3102 East Main Road

Portsmouth, RI 02871

401-683-6630 Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

MEP/FP Engineer

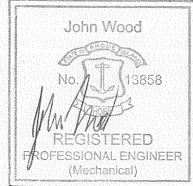
617-926-9300

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

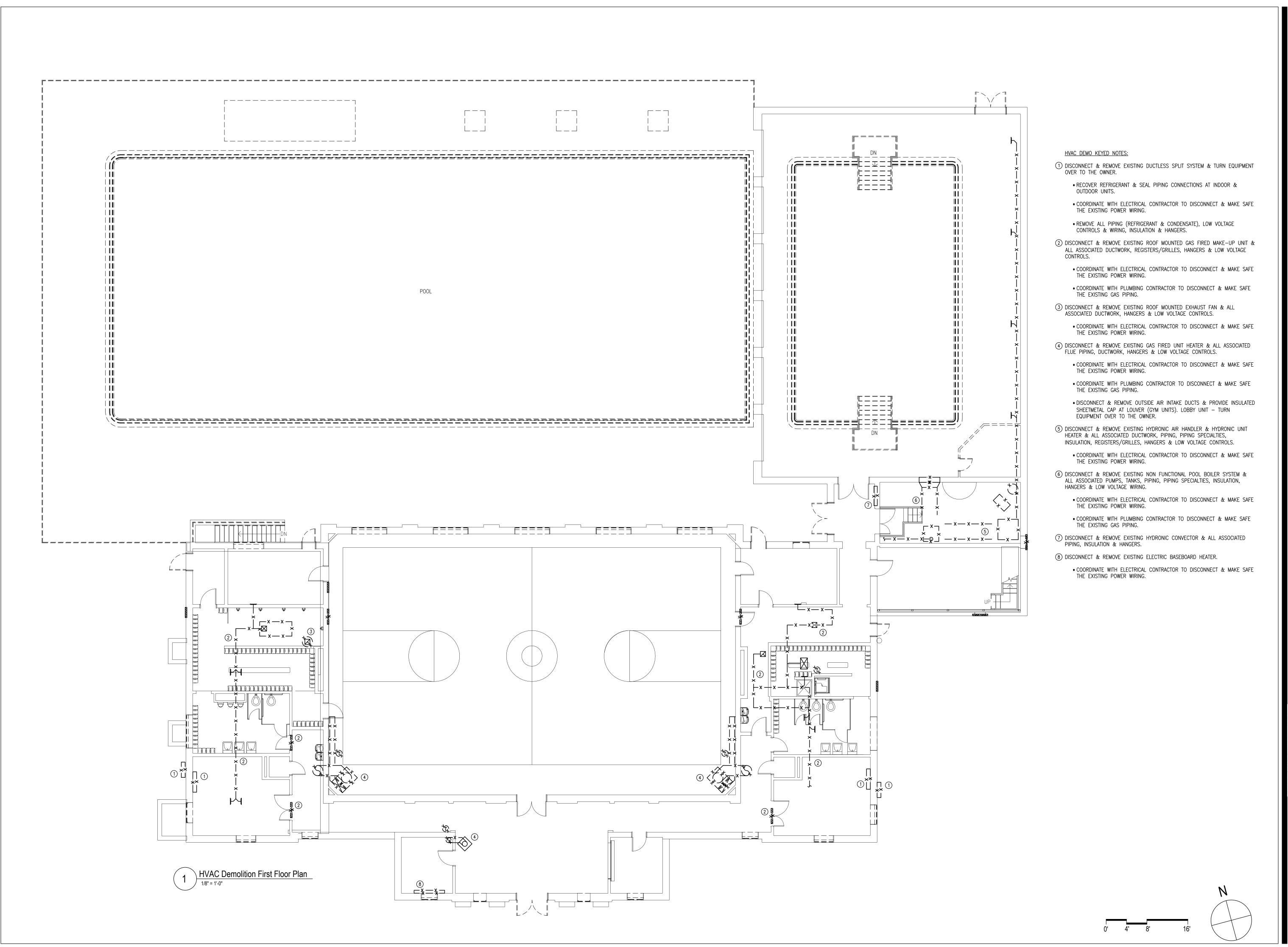
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DRAWING TITLE

Demolition Basement



DRAWING NUMBER



Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes **Recreation Center**

> 227 Dudley Street Providence, RI 02907

City of Providence

Providence, RI 02903

4 California Street Ste. 301

508-875-2657 Land Surveyor

3102 East Main Road Portsmouth, RI 02871

PROJECT TEAM

Civil Engineer Framingham, MA 01701

Narragansett Engineering, Inc.

401-683-6630 Structural Engineer RSE Associates, Inc.

64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

REVISIONS

DRAWING TITLE

Demolition First Floor

> -----John Wood

DRAWING NUMBER

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

Davey Lopes **Recreation Center**

227 Dudley Street Providence, RI 02907

City of Providence 25 Dorrance Street

4 California Street Ste. 301 Framingham, MA 01701

Narragansett Engineering, Inc. 3102 East Main Road

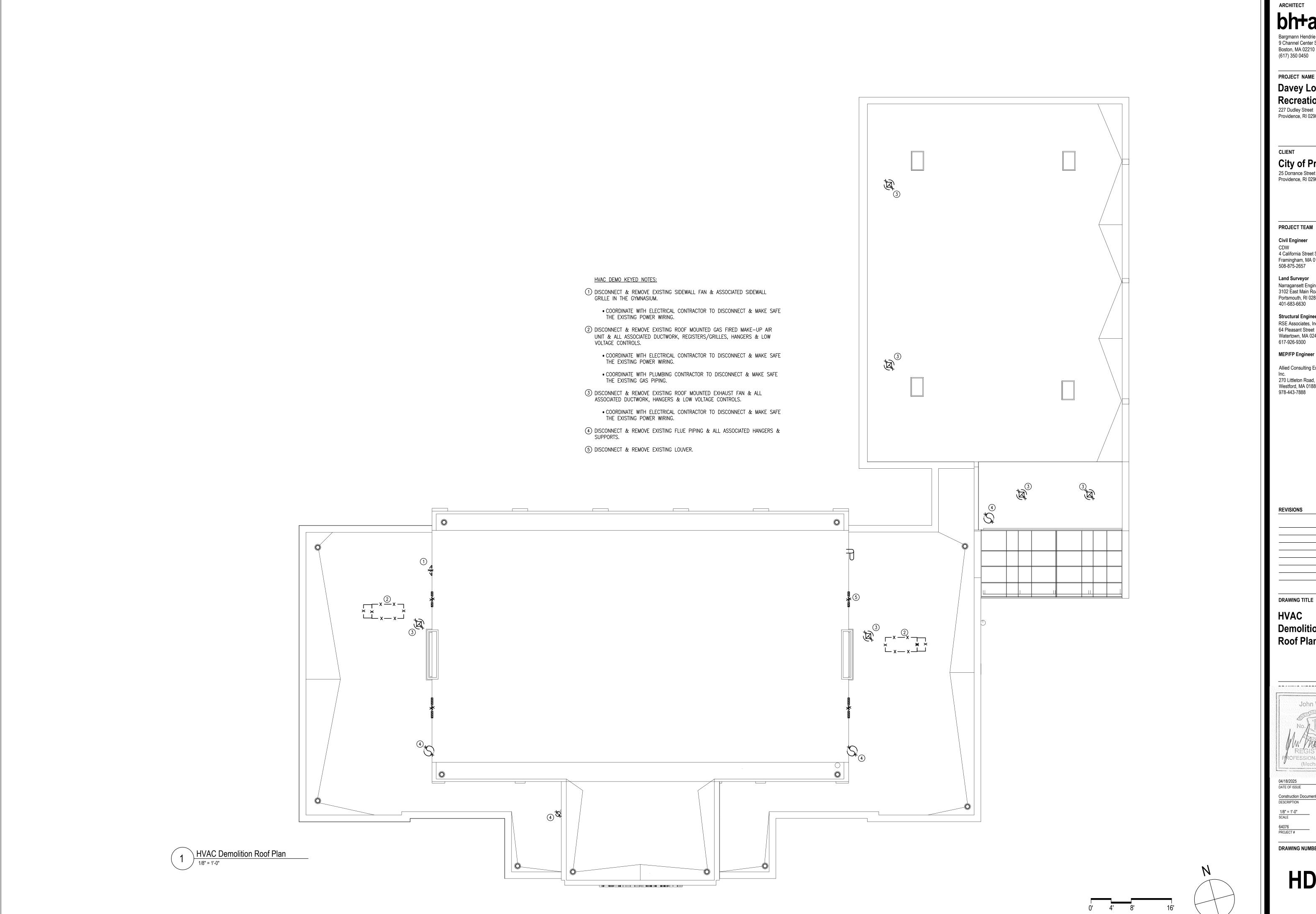
Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

Demolition

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DRAWING NUMBER



Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes **Recreation Center**

Providence, RI 02907

City of Providence 25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886

DRAWING TITLE

HVAC Demolition Roof Plan

DRAWING NUMBER

HD103

bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center

227 Dudley Street Providence, RI 02907

City of Providence 25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

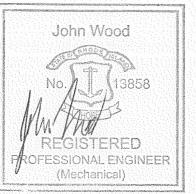
Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

DRAWING TITLE

HVAC Basement



DRAWING NUMBER

H100

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes **Recreation Center**

227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

508-875-2657

401-683-6630

617-926-9300

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

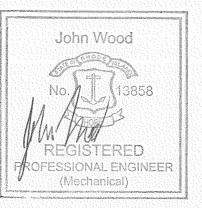
Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

DRAWING TITLE

HVAC Second Floor Plan



DRAWING NUMBER

bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes **Recreation Center**

City of Providence 25 Dorrance Street

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701

508-875-2657 Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road

Portsmouth, RI 02871 401-683-6630 Structural Engineer

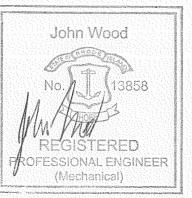
RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

DRAWING TITLE

HVAC Roof



DRAWING NUMBER

H103

								AIK	ПАПО	LER WITH	INIEGRA	AL CINER	GI RE	COVERI	VENTILA	AIUK	<u>α </u>	^L	ПЕАІ	PUMP	עע	ПЕАІ	<i>/</i> CO	OL CO	<u> </u>	СПЕР	ULE				
TAG	SERVICE	LOCATION		SUPPI	LY			EXHAUST		SUMMER O.A. TEMP.	WINTER O.A. TEMP. (DB/WB) (*F)		ENERGY WHEE	EL PERFORMANCE		HEATING MITS	S PERFORMANCE SUBISHI HEAT PU	, TYPE: JMP	ELECTRIC H	HEATING COIL	COOLING	PERFORMANCE,	, TYPE: MIT	SUBISHI HEAT PUN	Р	ELE	CTRICAL		MANUFACTURER / MODEL	WEIGHT	REMARKS
			TOTAL CFM	O.A. CFM (MAX.)	ESP (IN)	HP	CFM (MAX.)	ESP (IN)	HP		(55) 115) (1)	SUMMER EAT DB/WB (*F)	SUMMER LAT DB/WB (*F)	WINTER EAT DB/WB (*F)	WINTER LAT DB/WB (*F)	CAPACITY (MBH)	EAT DB (*F)	LAT DB (*F)	KW	CONTROL	EAT (DB/WB)	LAT (DB/WB)	TOTAL MBH	SENSIBLE REFRIG	RANT	POWER	MCA	MOCP			
AHU-111	GYMNASIUM 111	ROOF	4400	1450	0.5	5	4400	0.5	3	90.8/76.2	5.0/2.9	90.8/76.2	79.7/67.4	5.0/2.9	50.0/42.0	179.6	64.7	-	20.4	SCR	76.5/64.1	49.5/48.8	190.4	128.2 410	Α :	208/3/60	101.4	110	GREENHECK / RVE-40-30D-##-1-J1	3300	SEE NOTES

1. SYSTEM FEATURES: UL/CUL 1995, GALVANIZED STEEL EXTERIOR HOUSING CONSTRUCTION, ENERGY RECOVERY CASSETTE WITH A DESICCANT WHEEL, DIRECT-DRIVE AIRFOIL PLENUM BLOWERS WITH FACTORY MOUNTED VFDs, BALL BEARING MOTORS, CORROSION RESISTANT FASTENERS, INTERNALLY LINED WITH GALVANIZED STEEL DOUBLE WALL CASING WITH 2" 2.4# R13 DENSITY FOAM INSULATION, INTERNALLY MOUNTED CONTROL CENTER WITH MOTOR STARTERS, 24VAC CONTROL TRANSFORMERS, & CONTROL CIRCUIT FUSING, EXHAUST DISCHARGE GRAVITY BACK DRAFT DAMPER.

2. MICROPROCESSOR CONTROLS INTERFACE, SUPPLY FAN VFD CONTROL (DUCT STATIC- BY DDC CONTRACTOR), SPACE THERMOSTAT (TEMP AND RH ONLY - BY DDC CONTRACTOR),

3. PROVIDE RETURN AIR INTAKE (SAME SIDE AS SUPPLY), FROST CONTROL (MODULATING WHEEL), DOWNTURNED WEATHERHOOD, ELECTROFIN COIL COATING (ALL COILS), MERV 8 OUTDOOR AIR CONTROL DAMPERS, PAINTED EXTERIOR (SILK GRAY, RAL 7044), SUPPLY FAN VFD CONTROL (CONSTANT VOLUME – ADJUSTABLE SETPOINT — BY OTHERS), EXHAUST FAN VFD CONTROL (O.A. DAMPER TRACKING) O.A./R.A. DAMPER CONTROLS (CO2 SENSOR BY OTHERS), ECONOMIZER MODE (TEMPERATURE CONTROL), WHEEL CONTROL), WHEEL CONTROL (DILE WHEEL), ENERGY WHEEL BYPASS DAMPER, DIRTY FILTER SENSORS (OUTDOOR, EXHAUST & FINAL), ROTATION SENSOR, PHASE & BROWN OUT PROTECTION, BRANCH CIRCUIT FUSING, UNIT DISCONNECT (MOUNTED BY FACTORY), SHORT CIRCUIT CURRENT (5KA), AND WEB BASED INTERFACE.

4. PROVIDE VIBRATION ISOLATION CURB, REFER TO SPECIFICATIONS FOR REQUIREMENTS.

5. DX COIL SELECTION TO BE DONE BY THE VRF MANUFACTURER. FOR SPECIFIED MITSUBISHI VRF SYSTEM CONTACT ERIC TOBIASSEN, 781-325-6149, FOR SELECTION VERIFICATION.

	FAN COIL UNITS SCHEDULE (DX HEATING AND COOLING)																				
		-				cc	OOLING PERFORMANCE	(CORRECTED)		HEAT PUMP HEATIN	NG PERFORMANCE	(CORRECTED)	REER	MOTOR	ELE	ECTRICAL			DIMENSIONS	, .	
TAG	SYSTEM	SERVICE	ТҮРЕ	CFM	ESP (IN)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB (*F)	HEATING CAPACITY (MBH)	EAT DB (*F)	LAT DB (°F)	REFR. TYPE	POWER (WATTS)	V/PH/HZ	MCA	МОСР	MANUFACTURER / MODEL	(HxWxL)	WEIGHT (LBS)	REMARKS
FCU-102		REFER TO PLANS ————	CEILING-CONCEALED	300	0.6	6.0	5.8	80 / 67	61.9	6.7	70	90.7	410A	-	208/1/60	1.75	15	MITSUBISHI / PEFY-P06NMAU-E4	1	47	SEE NOTES BELOW.
FCU-103		REFER TO PLANS ————	2x2 CEILING CASSETTE	315	_	8.0	6.2	80 / 67	61.4	8.9	70	96.4	410A	-	208/1/60	0.28	15	MITSUBISHI / PLFY-P08NFMU-ER1.TH	-	29	SEE NOTES BELOW.
FCU-104		REFER TO PLANS ————	CEILING CONCEALED	300	0.6	6.0	5.8	80 / 67	61.9	6.7	70	90.7	410A	-	208/1/60	1.75	15	MITSUBISHI / PEFY-P06NMAU-E4	-	47	SEE NOTES BELOW.
FCU-106		REFER TO PLANS ————	CEILING CONCEALED	880	0.6	18.0	13.7	80 / 67	58.4	20.0	70	101	410A	-	208/1/60	2.88	15	MITSUBISHI / PEFY-P18NMAU-E5	-	67	SEE NOTES BELOW.
FCU-108		REFER TO PLANS ————	CEILING CONCEALED	370	0.6	12.0	8.4	80 / 67	58.7	13.5	70	104	410A	-	208/1/60	2.13	15	MITSUBISHI / PEFY-P12NMAU-E4	-	47	SEE NOTES BELOW.
FCU-115		REFER TO PLANS ————	CEILING CONCEALED	370	0.6	12.0	8.4	80 / 67	58.7	13.5	70	104	410A	-	208/1/60	2.13	15	MITSUBISHI / PEFY-P12NMAU-E4	-	47	SEE NOTES BELOW.
FCU-117		REFER TO PLANS ————	CEILING CONCEALED	490	0.6	15.0	11.4	80 / 67	58.3	17.0	70	102	410A	-	208/1/60	2.88	15	MITSUBISHI / PEFY-P15NMAU-E4	-	58	SEE NOTES BELOW.
FCU-118A		REFER TO PLANS ————	MULTI-POSITION	585	0.8	18.0	13.7	80 / 67	57.9	20.0	70	102	410A	-	208/1/60	3.0	15	MITSUBISHI / PVFY-P18NAMU-E1	-	113	SEE NOTES BELOW.
FCU-118B		REFER TO PLANS ————	CEILING CONCEALED	490	0.6	15.0	11.4	80 / 67	58.3	17.0	70	102	410A	-	208/1/60	2.88	15	MITSUBISHI / PEFY-P15NMAU-E4	-	58	SEE NOTES BELOW.
FCU-124A		REFER TO PLANS ————	CEILING CONCEALED	2540	0.6	72.0	56.8	80 / 67	58.9	79.8	70	99.1	410A	-	208/1/60	7.7	15	MITSUBISHI / PEFY-P72NMHSU-E	ı	214	SEE NOTES BELOW.
FCU-124B		REFER TO PLANS ————	CEILING CONCEALED	2540	0.6	72.0	56.8	80 / 67	58.9	79.8	70	99.1	410A	-	208/1/60	7.7	15	MITSUBISHI / PEFY-P72NMHSU-E	1	214	SEE NOTES BELOW.

1. PROVIDE A SPARE FILTER FOR EACH FAN COIL.

PROVIDE FILTER BOXES. PROVIDE PAR-40MAAU OR PAC-YT53CRAU-J CONTROLLERS FOR FAN COILS. REFER TO PLANS AND SCHEMATICS FOR LOCATIONS. 4. PROVIDE "AUTOFAN" FUNCTION ON ALL UNITS.

5. CONTRACTOR TO PROVIDE CONTROLS INTERFACE INSTALLATION AND TRAINING FOR THE TOWN FACILITIES MANAGER ON THE DEPARTMENT COMPUTER.

	VARIABLE REFRIGERANT VOLUME HEAT PUMP SCHEDULE (OUTDOOR UNIT)														
TAG	SERVICE	LOCATION	O.A. TEMP COOLING (*F)	COOLING CAP. (MBH)	O.A. TEMP HEATING	HEATING CAP. (MBH)	V/PH/HZ	ELECTRICAL *	МОСР	MANUFACTURER / MODEL	WEIGHT (LBS)	IEER / EER	COP	REMARKS	
HP-106	BOY'S LOCKER ROOM AREA	ROOF	89.0	73.7	5.0	79.8	208/3/60	55	90	MITSUBISHI / PUHY-HP72TNU-A1	609	24.7 / 12.5	4.39	SEE NOTES BELOW	
HP-111	GYMNASIUM	ROOF	89.0	73.7	5.0	80.2	208/3/60	45 / 45*	70 / 70*	MITSUBISHI / PUHY-EP192TSNU-A1	609	24.7 / 12.5	4.39	SEE NOTES BELOW	
HP-113	GIRL'S LOCKER ROOM AREA	ROOF	89.0	195.2	5.0	179.6	208/3/60	55	90	MITSUBISHI / PUHY-HP72TNU-A1	609	24.7 / 12.5	4.39	SEE NOTES BELOW	
HP-124	MULTIPURPOSE ROOM	ROOF	89.0	146	5.0	160	208/3/60*	55 / 55*	90 / 90*	MITSUBISHI / PUHY-HP144TSNU-A1	1218	23.1 / 11.6	4.1	SEE NOTES BELOW	

* TWO (2) ELECTRICAL POWER CIRCUITS REQUIRED 1. SYSTEM PERFORMANCE SHALL BE CONFIRMED BY COMPUTER SELECTION BY THE MANUFACTURER'S REPRESENTATIVE. REFRIGERANT PIPE SIZES SHALL BE PROVIDED BY THE MANUFACTURERS REPRESENTATIVE.

PROVIDE AE-200 TOUCH SCREEN CENTRAL CONTROL WITH BACNET/IP LICENSE AND A BCP-50 BUILDINGCONNECT+ PANEL.

3. MOUNT UNITS 18" (MINIMUM) ABOVE ROOF ON EQUIPMENT SUPPORT STANDS.

4. PROVIDE UNITS WITH PANEL HEATERS, SNOW/HAIL GUARDS AND HOODS. 5. PROVIDE SPRING VIBRATION ISOLATION RAILS, REFER TO SPECIFICATIONS FOR REQUIREMENTS.

ELECTRIC HEATING DEVICES SCHEDULE													
SERVICE	TYPE	DIMENSIONS	BTU/HR OUTPUT	WATTS	POWER	MANUFACTURER / MODEL	REMARKS						
RESTROOM 117	BASEBOARD	30"	1700	500	120/1/60	BERKO / QMKC25126W	PROVIDE INTEGRAL TAMPER PROOF THERMOSTAT						
MECHANICAL ROOM B01	UNIT HEATER	-	17 MBH	5 KW	208/1/60	BERKO / HUH520SA	PROVIDE WALL MOUNTED THERMOSTAT						
STORAGE 109	WALL HEATER	-	5118	1500	120/1/60	BERKO / FRC1512F	PROVIDE INTEGRAL TAMPER PROOF THERMOSTAT						
CORRIDOR 110	WALL HEATER	-	5118	1500	120/1/60	BERKO / FRC1512F	PROVIDE INTEGRAL TAMPER PROOF THERMOSTAT						
STORAGE 126	WALL HEATER	-	5118	1500	120/1/60	BERKO / FRC1512F	PROVIDE INTEGRAL TAMPER PROOF THERMOSTAT						
HALL 120	WALL HEATER		5118	1500	120/1/60	BERKO / FRC1512F	PROVIDE INTEGRAL TAMPER PROOF THERMOSTAT						
HALL 126	WALL HEATER	-	5118	1500	120/1/60	BERKO / FRC1512F	PROVIDE INTEGRAL TAMPER PROOF THERMOSTAT						
<u> </u>	RESTROOM 117 MECHANICAL ROOM B01 STORAGE 109 CORRIDOR 110 STORAGE 126 HALL 120	RESTROOM 117 BASEBOARD MECHANICAL ROOM B01 UNIT HEATER STORAGE 109 WALL HEATER CORRIDOR 110 WALL HEATER STORAGE 126 WALL HEATER HALL 120 WALL HEATER	SERVICE TYPE DIMENSIONS RESTROOM 117 BASEBOARD 30" MECHANICAL ROOM B01 UNIT HEATER — STORAGE 109 WALL HEATER — CORRIDOR 110 WALL HEATER — STORAGE 126 WALL HEATER — HALL 120 WALL HEATER —	SERVICE TYPE DIMENSIONS BTU/HR OUTPUT RESTROOM 117 BASEBOARD 30" 1700 MECHANICAL ROOM B01 UNIT HEATER - 17 MBH STORAGE 109 WALL HEATER - 5118 CORRIDOR 110 WALL HEATER - 5118 STORAGE 126 WALL HEATER - 5118 HALL 120 WALL HEATER - 5118	SERVICE TYPE DIMENSIONS BTU/HR OUTPUT WATTS RESTROOM 117 BASEBOARD 30" 1700 500 MECHANICAL ROOM B01 UNIT HEATER - 17 MBH 5 KW STORAGE 109 WALL HEATER - 5118 1500 CORRIDOR 110 WALL HEATER - 5118 1500 STORAGE 126 WALL HEATER - 5118 1500 HALL 120 WALL HEATER - 5118 1500	SERVICE TYPE DIMENSIONS BTU/HR OUTPUT WATTS POWER RESTROOM 117 BASEBOARD 30" 1700 500 120/1/60 MECHANICAL ROOM B01 UNIT HEATER - 17 MBH 5 KW 208/1/60 STORAGE 109 WALL HEATER - 5118 1500 120/1/60 CORRIDOR 110 WALL HEATER - 5118 1500 120/1/60 STORAGE 126 WALL HEATER - 5118 1500 120/1/60 HALL 120 WALL HEATER - 5118 1500 120/1/60	SERVICE TYPE DIMENSIONS BTU/HR OUTPUT WATTS POWER MANUFACTURER / MODEL RESTROOM 117 BASEBOARD 30" 1700 500 120/1/60 BERKO / QMKC25126W MECHANICAL ROOM B01 UNIT HEATER - 17 MBH 5 KW 208/1/60 BERKO / HUH520SA STORAGE 109 WALL HEATER - 5118 1500 120/1/60 BERKO / FRC1512F CORRIDOR 110 WALL HEATER - 5118 1500 120/1/60 BERKO / FRC1512F STORAGE 126 WALL HEATER - 5118 1500 120/1/60 BERKO / FRC1512F HALL 120 WALL HEATER - 5118 1500 120/1/60 BERKO / FRC1512F						

	AIR CURTAIN SCHEDULE														
TAG	LOCATION TYPE DIMENSIONS BTU/HR OUTPUT HP POWER FLA MANUFACTURER / MODEL REMARKS														
AC-101	LOBBY 101	VERTICAL	15"x9"x85"	-	(2) @ 0.2	208/1/60	-	POWERED AIRE / EVE-2-84	CONTROL PANEL, DOOR SWITCH, COLOR SELECTION BY ARCHITECT						

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes **Recreation Center**

227 Dudley Street

Providence, RI 02907

City of Providence Providence, RI 02903

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

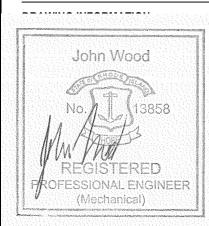
MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

REVISIONS

DRAWING TITLE

Schedules



DRAWING NUMBER

	ENERGY RECOVERY VENTILATOR SCHEDULE																						
			SUF	PPLY			EXHAL	JST		SUMMER	CONDITIONS (D	B/WB °F)	WINTER C	ONDITIONS ([DB/WB 'F)	FILTERS	DIMENSIONS	WEIGHT	ELEC	CTRICAL			
DOVE LOOKED DOOL		CFM	ESP (IN WC)	RPM	HP	CFM	ESP (IN WC)	RPM	HP	E.A.T.	O.A.T.	S.A.T.	E.A.T.	O.A.T.	S.A.T.	SUPPLY EXHAUST	L x W x H	(LBS)	VOLTS/PH/HZ	FLA	MOCP	MANUFACTURER / MODEL	REMARKS
ERV-106	BOY'S LOCKER ROOM AREA	425	0.6	-	0.5	400	0.5	-	0.5	78 / 75	90.1/75.0	79.5/67.9	68 / 50	8.5/5.5	51.8/39.9	2" MERV 13 2" MERV 8	74" x 35" x 59"	700	208/1/60	3.5	15	RENEWAIRE / HE07-JRTV-D15AADGN4WL	SEE NOTE 1
ERV-113	GIRL'S LOCKER ROOM AREA	500	0.5	-	156 W	475	0.5	_	138 W	78 / 75	90.1/73.3	78.9/67.3	68 / 50	8.5/5.5	53.9/41.4	2" MERV 13 2" MERV 8	82" x 24" x 59"	1050	208/1/60	11.3	15	RENEWAIRE / HE10-JRTV-D15AADGN4WL	SEE NOTE 1
ERV-124	MULTIPURPOSE ROOM	1300	0.5	-	0.75	1250	0.5	-	0.5	78 / 75	90.8/76.2	77.9/65.8	68 / 50	5 / 2.9	56.6/44.8	2" MERV 13 2" MERV 8	114" x 43" x 21"	725	208/1/60	17.1	20	GREENHECK / EVRi-20-HE-RHE	SEE NOTE 2

- 1. PROVIDE UNITS WITH ROOF MOUNTING CURBS, DOUBLE WALL CONSTRUCTION, VARIABLE SPEED ECM MOTORS WITH TERMINAL STRIP, MOTORIZED EA & OA DAMPERS, 2" MERV 13 FILTERS, PREMIUM CONTROLS WITH BACNET FACTORY ACTIVATION, FILTER MONITORS
- 2. PROVIDE UNIT WITH DOUBLE WALL CONSTRUCTION WITH 1" 2.2# R6.3 FOAM INSULATION, FACTORY WIRED DISCONNECT, FACTORY WIRED VFD'S, PERMATECTOR RAL7023 FINISH, MICROPROCESSOR CONTROLLER, BACNET PROTOCOL, SUPPLY FAN CONTROL DUCT SP, EXHAUST FAN CONTROL SUPPLY FAN TRACKING, ECONOMIZER CONTROL TEMP/ENTHALPY, DIRTY FILTER SENSORS, O.A. & R.A. LOW LEAKAGE DAMPERS, SET OF SPARE FILTERS, SPARE ENERGY WHEEL BELT, SPARE ENERGY WHEEL SEGMENTS, WARRANTY 2.5 YEARS

	LOUVER SCHEDULE												
TAG	SERVICE	CFM	FPM	SIZE (L x H x D)	DAMPER TYPE	FINISH	COLOR	MANUFACTURER / MODEL	REMARKS				
IAL-B01	INTAKE	850	_	24"x 24" x 4"	MOTOR OPERATED	PAINTED	BY ARCHITECT	GREENHECK / ESD-403	SEE NOTES				
IAL-124	INTAKE	1300	_	30"x 24" x 4"	NONE	PAINTED	BY ARCHITECT	GREENHECK / ESD-403	SEE NOTES				
EAL-B01	EXHAUST	850	-	24" x 24" x 4"	MOTOR OPERATED	PAINTED	BY ARCHITECT	GREENHECK / ESD-403	SEE NOTES				

NOTES:

- 1. MOTOR OPERATED DAMPER GREENHECK MODEL VCD-34.
- 2. FINISH 2 COATS 70% KYNAR/100% FLOUROPOLMER, COLOR TO BE SELECTED BY ARCHITECT 3. ALUMINUM BIRD SCREEN

	FAN SCHEDULE													
TAG	SERVICE	TYPE	CFM	НР	SP (IN)	RPM	VOLTAGE	MANUFACTURER / MODEL	WEIGHT (LBS)	REMARKS				
EF-B01	MECHANICAL B01	INLINE	850	0.25	0.35	1363	120/1/60	GREENHECK / SQ-9-VG	65	SEE NOTE 1				
DSF-101	LOBBY	DESTRATIFICATION	-	90 W	_	-	120/1/60	AIRIUSFANS / ONYX-EC-STD-100-130-X	13	SEE NOTE 2				
DSF-111	GYMNASIUM	DESTRATIFICATION	-	90 W	_	-	120/1/60	AIRIUSFANS / ONYX-EC-STD-100-130-X	13	SEE NOTE 2				
EF-124	DATA CLOSET	CEILING	80	18.4 W	0.125	-	120/1/60	PANASONIC / FV-05VK3	11	SEE NOTE 3				

- 1. PROVIDE VARI-GREEN EC MOTOR, TEMPERATURE & HUMIDITY CONTROLLER, NEMA 1 TOGGLE SWITCH, SPRING HANGER VIBRATION ISOLATORS, INLET GUARD, DUCT MOUNTING COLLAR 2. PROVIDE AIRIUSBAC24 BACNET INTERFACE CARD, COLOR SELECTION BY ARCHITECT.
- 3. PROVIDE LINE VOLTAGE THERMOSTAT TO ENABLE FAN ON RISE IN SPACE TEMPERATURE ABOVE 80 DEGREES (ADJUSTABLE).

	GRI	LLES, RE	EGISTERS &	& DIFFUS	SER SCHEDULI	E
	DIFFUSER TYPE (LETTERS) AND CFM RANGE (NUMBER). SEE COLUMN <u>TAG</u> BELOW. CFM-	SD1 100		→ Al IN (4	RROWS SHOWN ON FLOOR PLAN IDICATE DIFFUSER BLOW PATTERN 4-WAY IF NO ARROWS SHOWN)	
TAG	DIFFUSER/GRILLE TYPE	CFM RANGE	NECK INLET SIZE	SIZE	MANUFACTURER / MODEL	DESCRIPTION
CD-1	CEILING DIFFUSER	15-150	6"x6"	10¾"×10¾"	NAILOR / 6500	FRAME TYPE S
CD-2	CEILING DIFFUSER	151-290	9"x9"	13¾"x13¾"	NAILOR / 6500	FRAME TYPE S
CD-3	CEILING DIFFUSER	291-490	12"x12"	16¾"×16¾"	NAILOR / 6500	FRAME TYPE S
CD-4	CEILING DIFFUSER	491-720	15"x15"	19¾"×19¾"	NAILOR / 6500	FRAME TYPE S
CD-5	CEILING DIFFUSER	721–925	18"x18"	22¾"×22¾"	NAILOR / 6500	FRAME TYPE S
EG-1	EXHAUST GRILLE	15–125	_	6"x6"	NAILOR / 6155H	-
EG-2	EXHAUST GRILLE	126-215	-	8"x8"	NAILOR / 6155H	-
EG-3	EXHAUST GRILLE	216-315	-	10"x10"	NAILOR / 6155H	-
EG-4	EXHAUST GRILLE	315-450	-	12"x12"	NAILOR / 6155H	-
EG-5	EXHAUST GRILLE	451-620	-	14"x14"	NAILOR / 6155H	-
EG-6	EXHAUST GRILLE	421-875	-	18"x18"	NAILOR / 6155H	-
LS-1	LINEAR SUPPLY (CEILING)	50	_	48"x4"	NAILOR / 6500	
LS-2	LINEAR SUPPLY (CEILING)	140	_	48"x4"	NAILOR / 6500	
LS-3	LINEAR SUPPLY (SIDEWALL)	250	-	48"x4"	NAILOR / 45DLC2	

NOTES: 1. ALL MODELS — COLOR SELECTION BY ARCHITECT.

Bargmann Hendrie + Archetype, Inc.

Boston, MA 02210

(617) 350 0450

PROJECT NAME Davey Lopes **Recreation Center**

9 Channel Center Street, Suite 300

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227 Dudley Street Providence, RI 02907

City of Providence

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

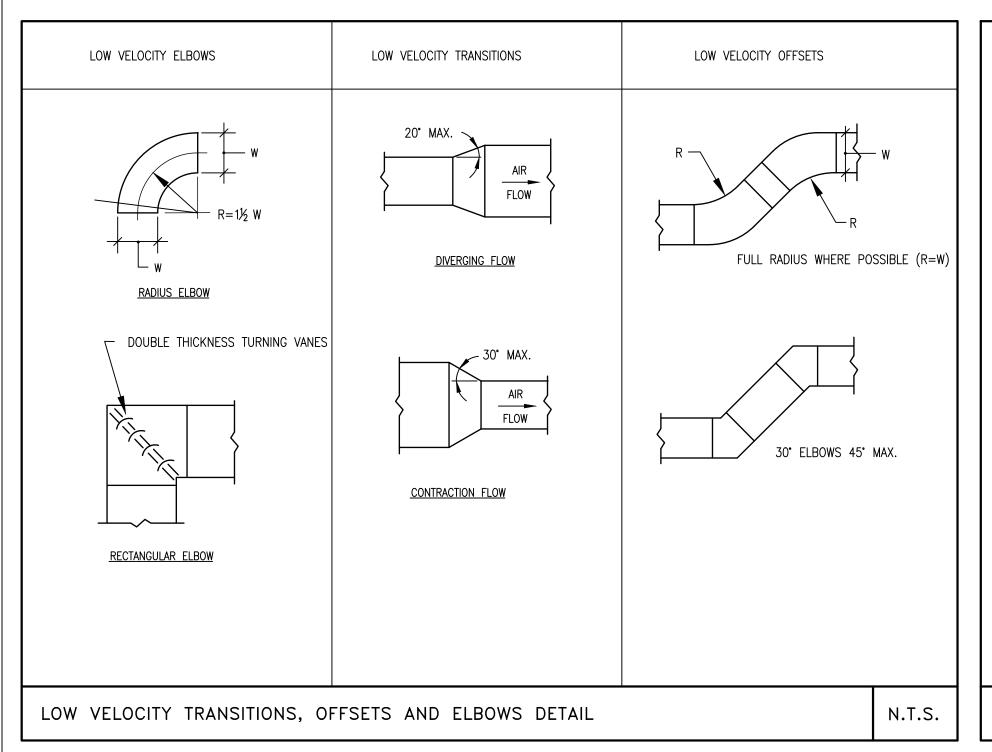
MEP/FP Engineer

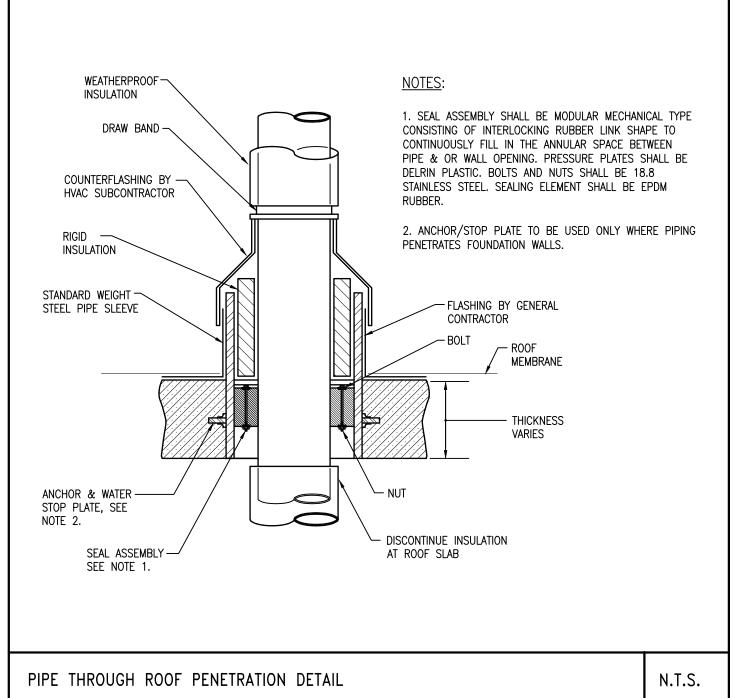
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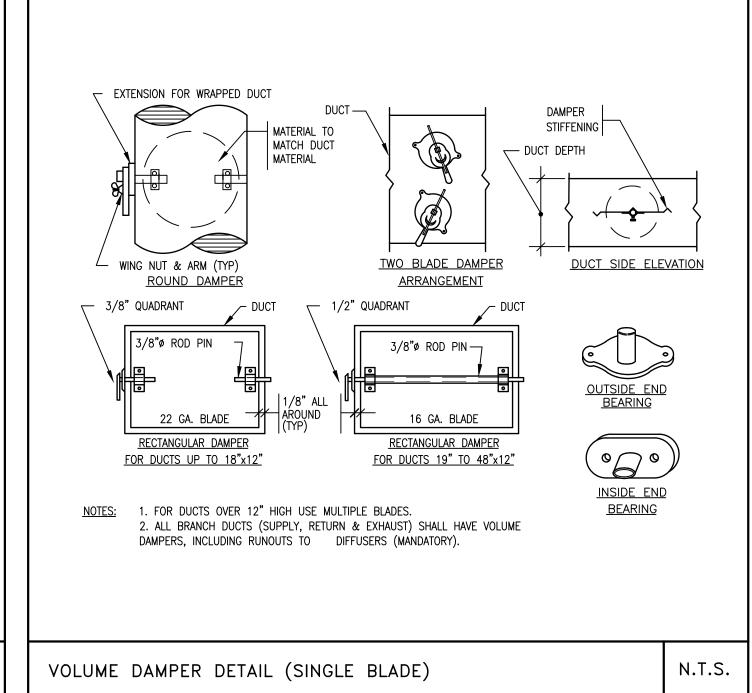
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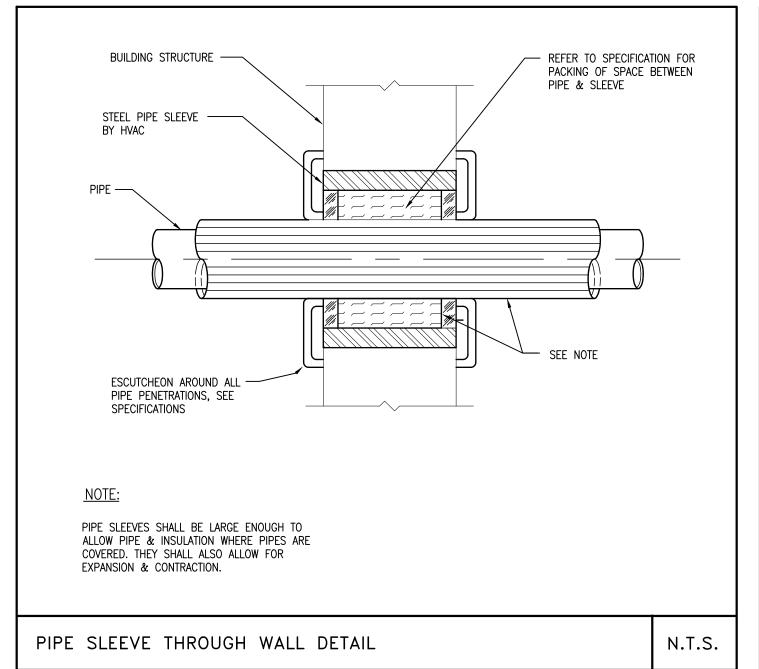
Schedules

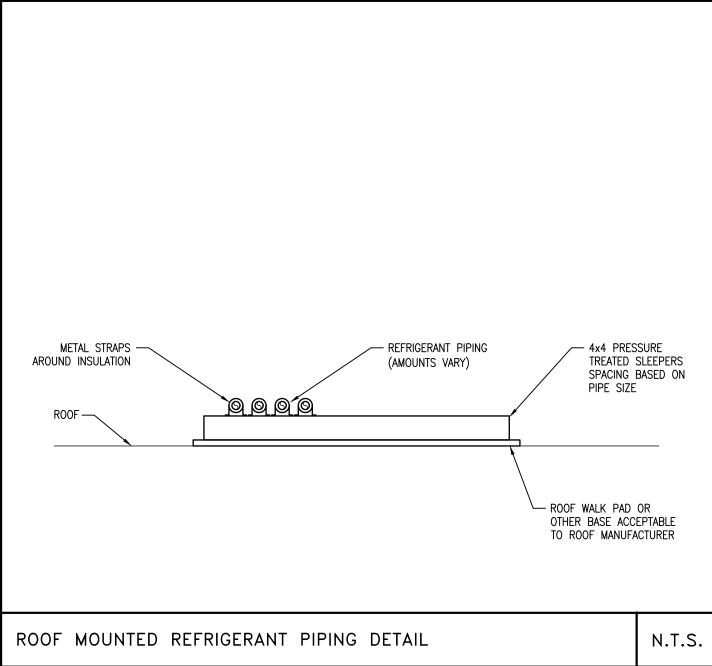
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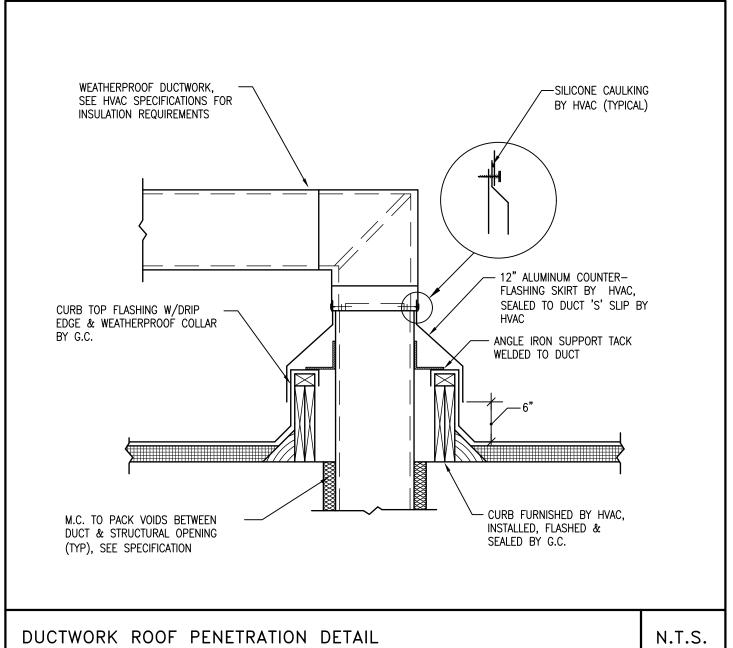


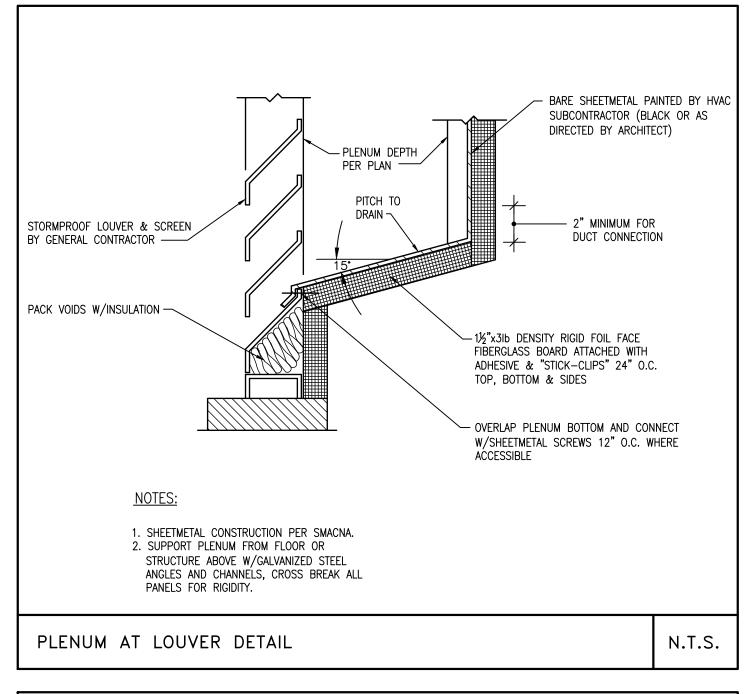


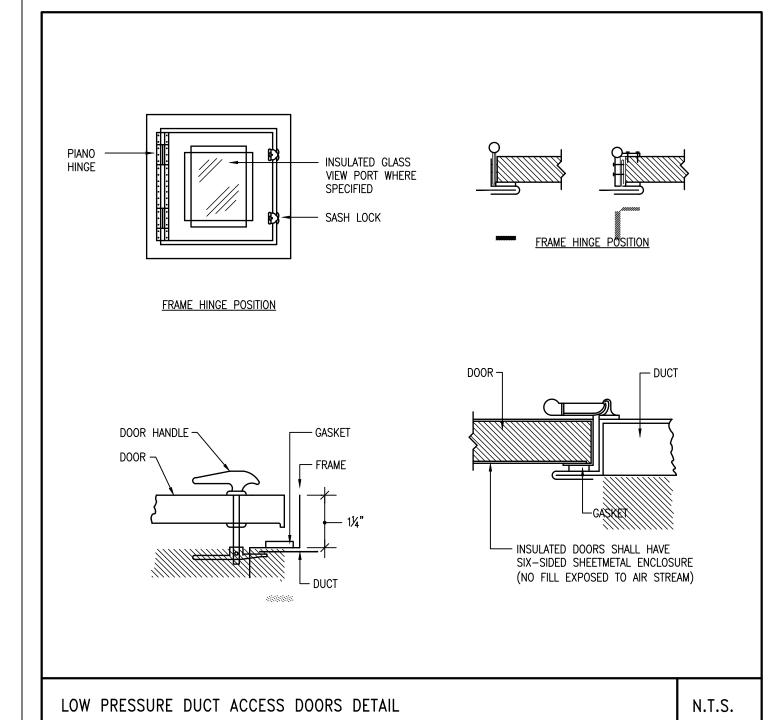


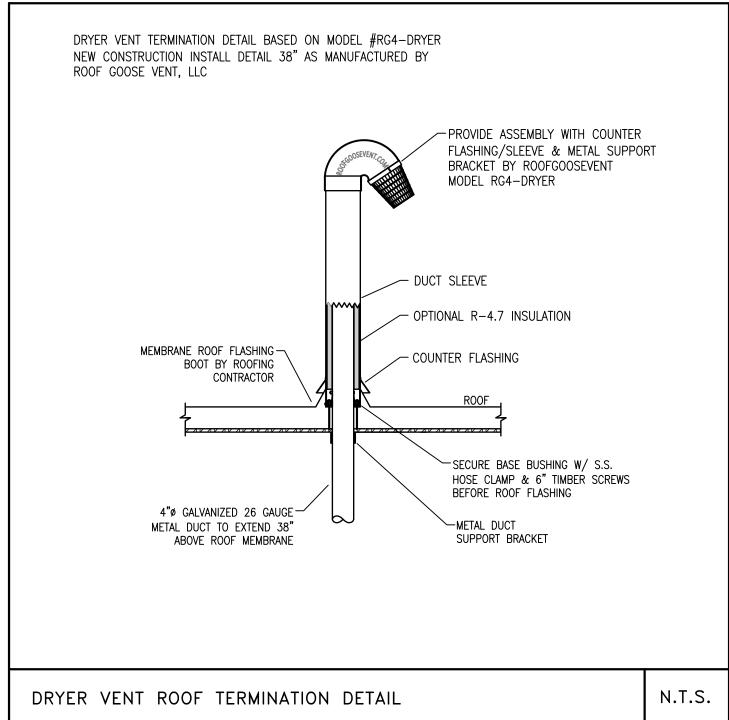


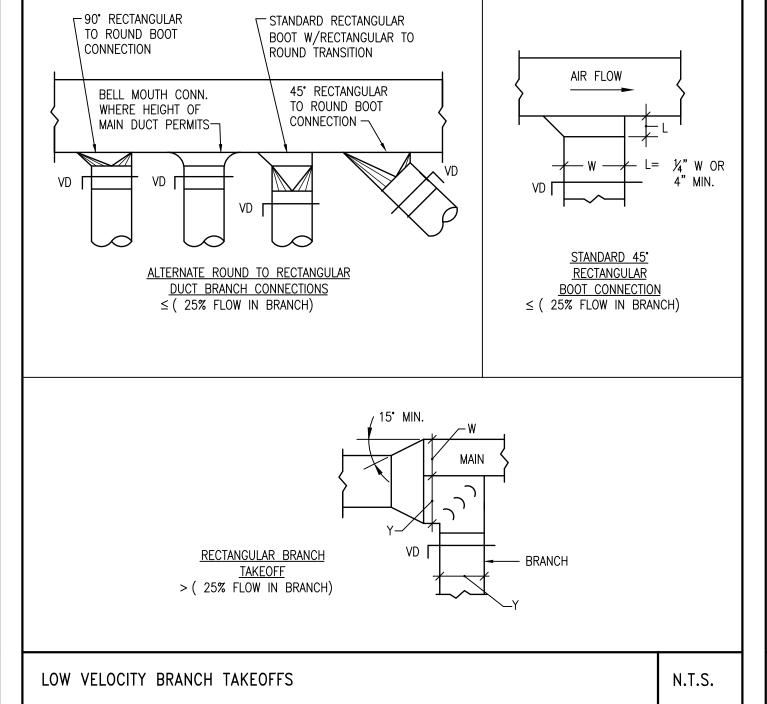


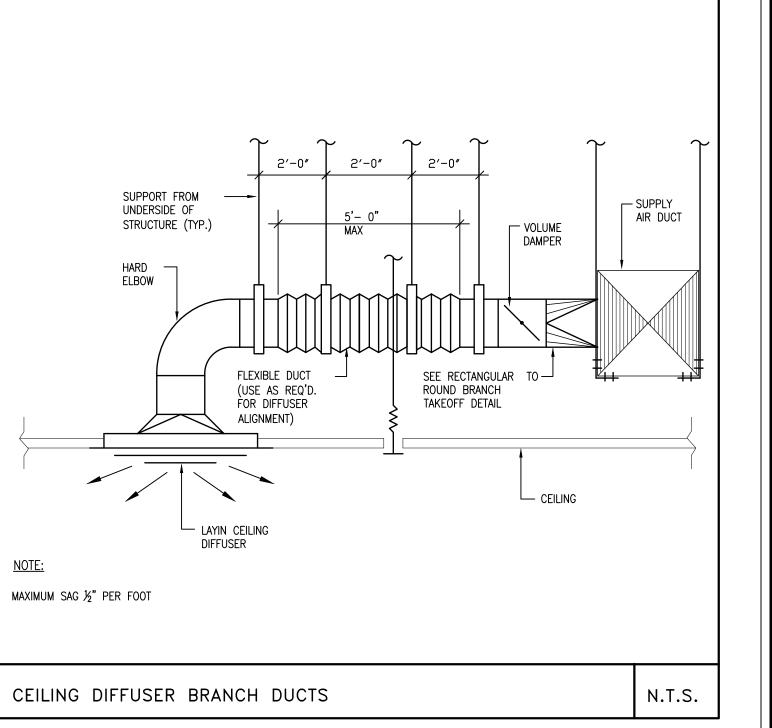












Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

227 Dudley Street

Providence, RI 02907

Davey Lopes Recreation Center

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM **Civil Engineer**

4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer

Westford, MA 01886

978-443-7888

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

REVISIONS

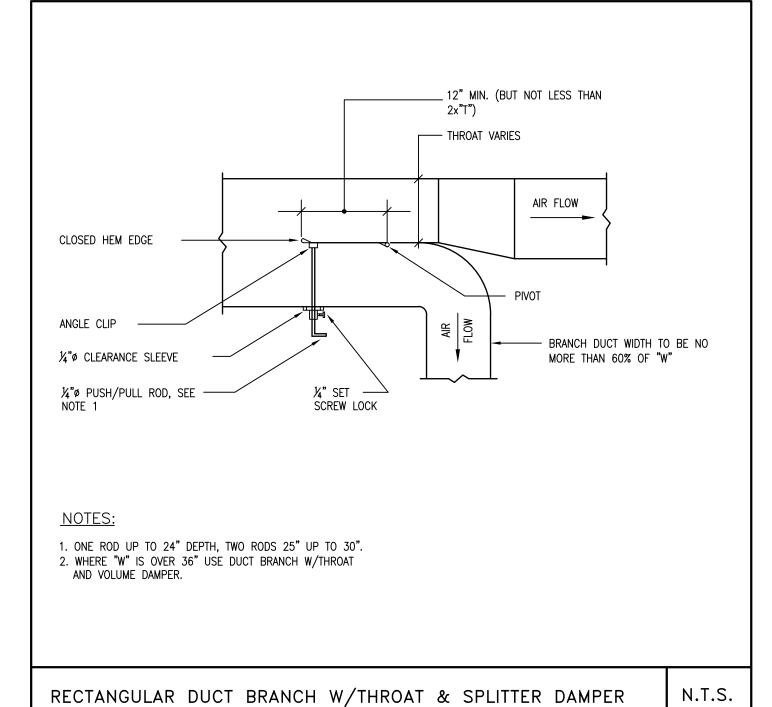
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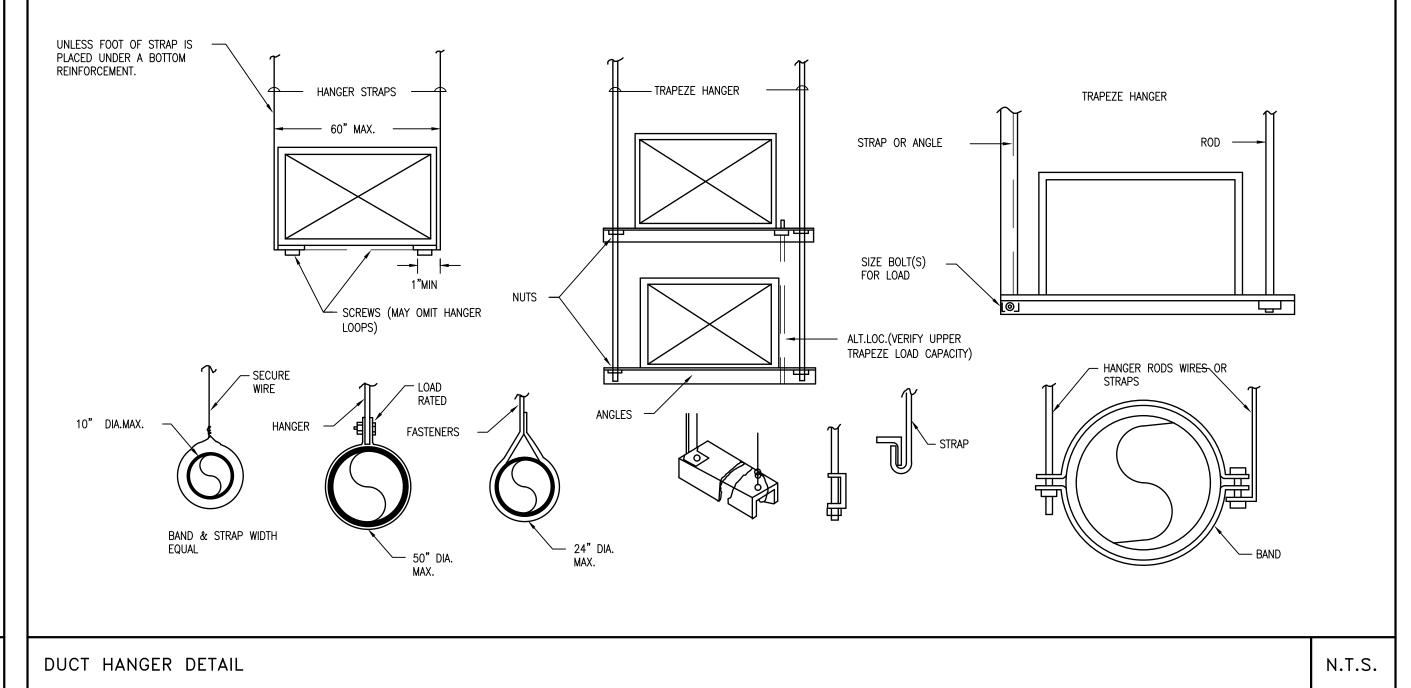
HVAC Details

-----John Wood FESSIONAL ENGINEER (Mechanical)

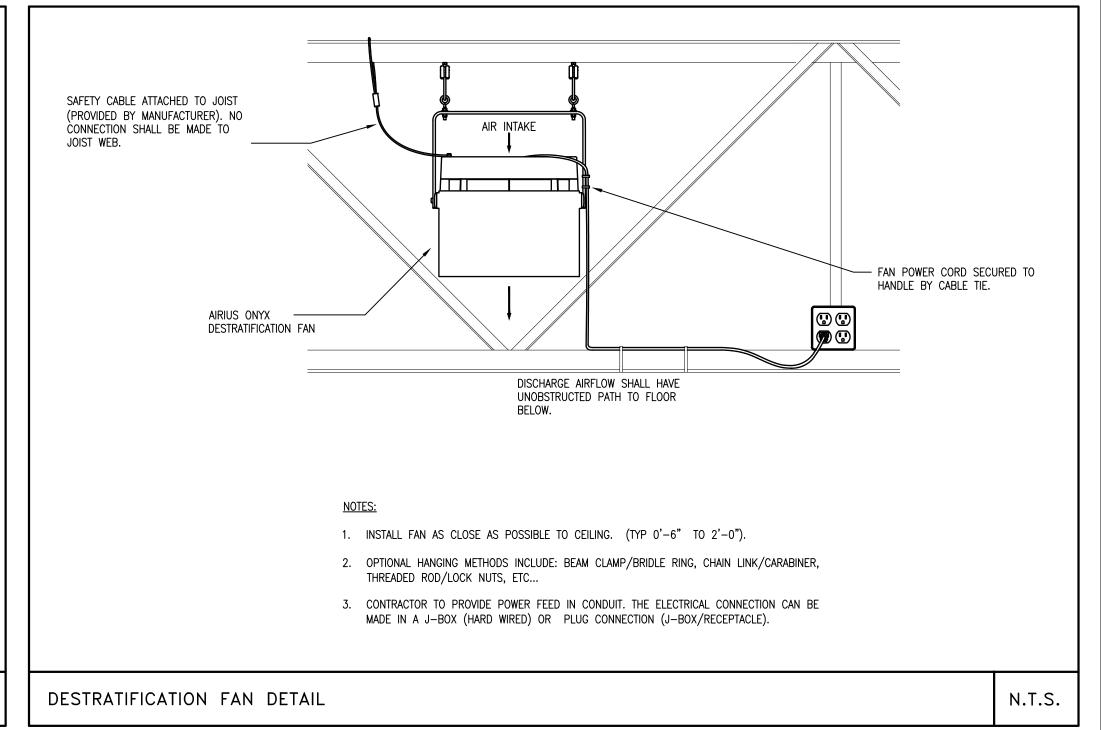
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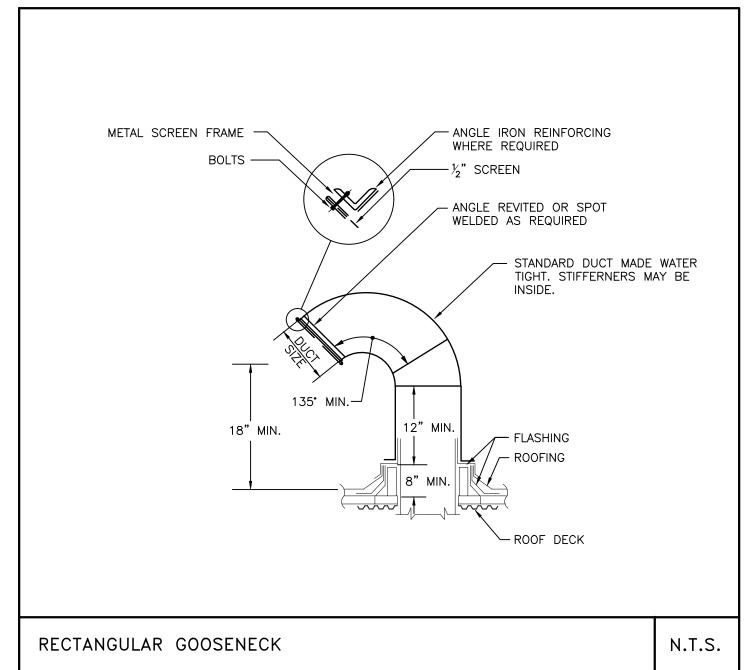
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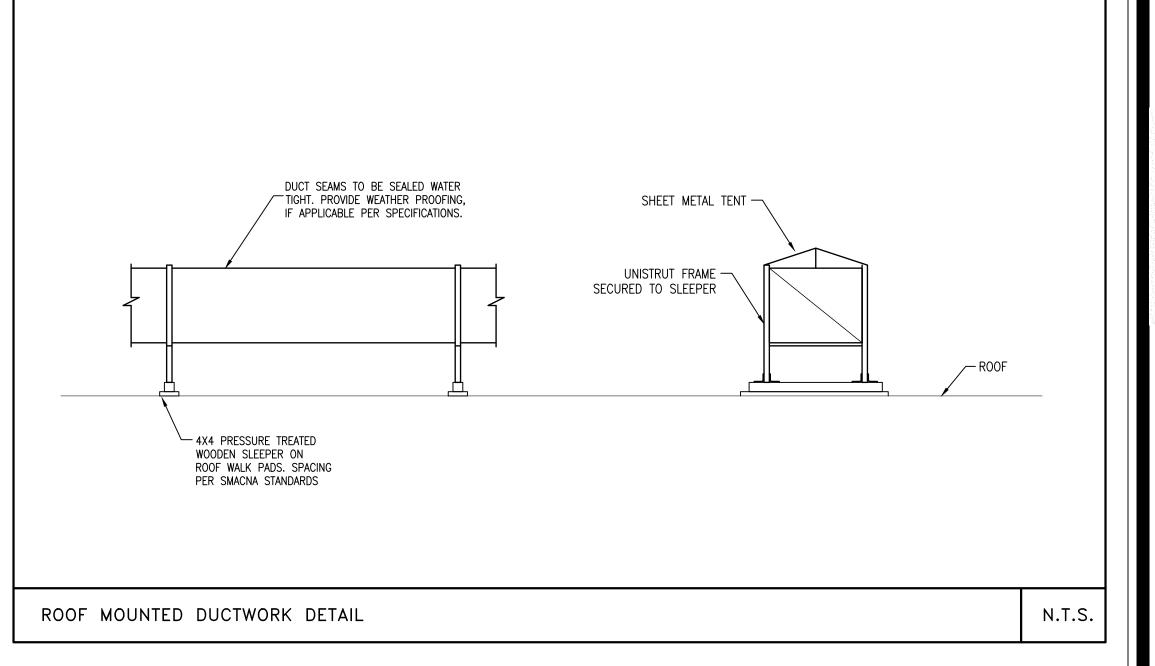




-VRF HEAT PUMP UNITS MITSUBISHI PURY SERIES (OR EQUAL) MINIMUM REFER TO REQUIREMENTS -SPRING TYPE VIBRATION ISOLATOR RAILS MOUNTED TO SUPPORT STAND BIGFOOT OR QUICK-SLING (OR EQUAL)
EQUIPMENT ROOF SUPPORT SYSTEM 18" MINIMUM ROOF N.T.S. VRF HEAT PUMP UNITS ROOF SUPPORT DETAIL







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227 Dudley Street

Providence, RI 02907

City of Providence 25 Dorrance Street

PROJECT TEAM

Providence, RI 02903

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701

508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300 MEP/FP Engineer

978-443-7888

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886

REVISIONS

DRAWING TITLE

HVAC Details

John Wood

DFESSIONAL ENGINEER (Mechanical)

DRAWING NUMBER

bh+a

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25 Dorrance Street Providence, RI 02903

City of Providence

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road

Portsmouth, RI 02871 401-683-6630 Structural Engineer

RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

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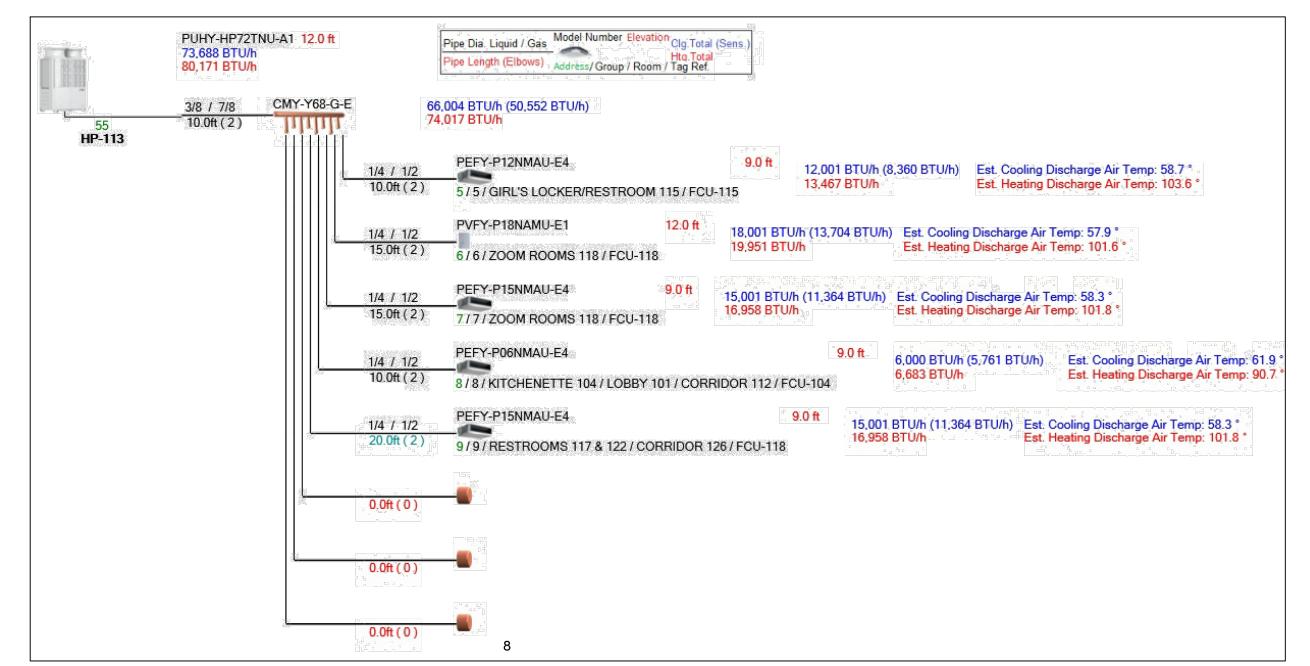
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HVAC Schematics

John Wood

DRAWING NUMBER

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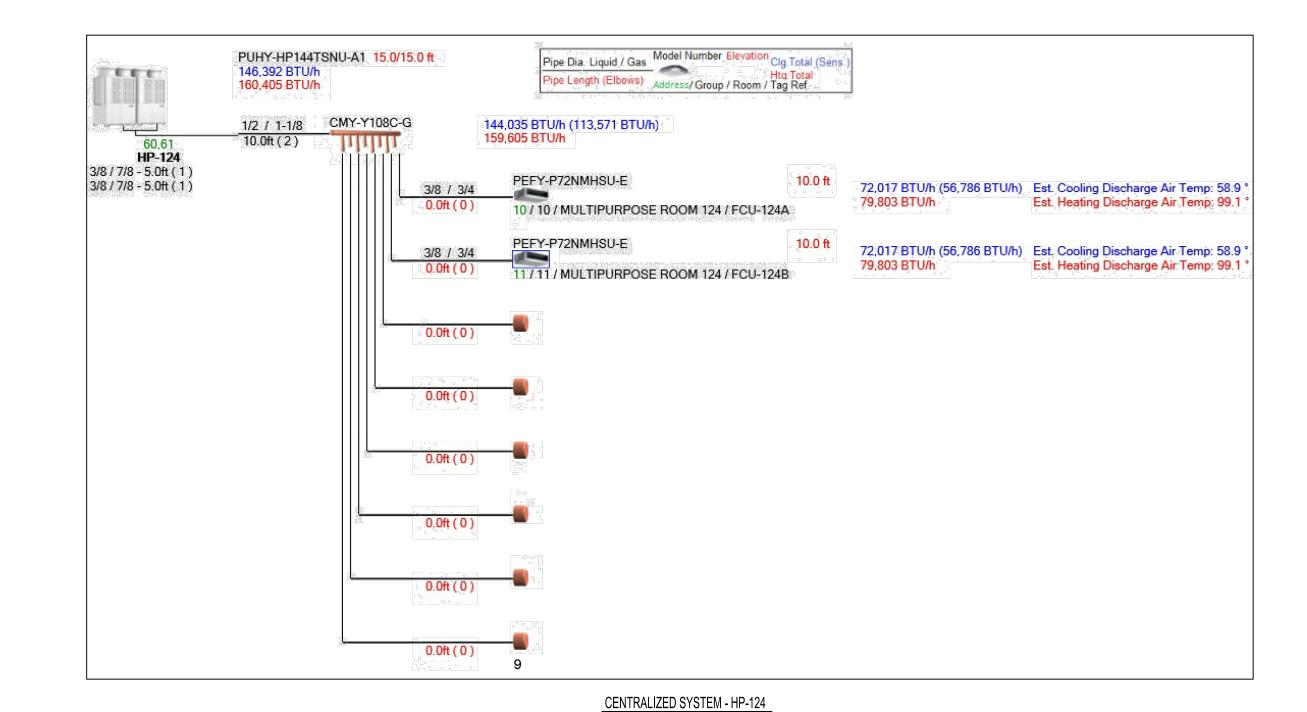


CENTRALIZED SYSTEM - HP-113

Pipe Dia Liquid / Gas Model Number Elevation Clg Total (Sens.)
Pipe Length (Elbows) Address/ Group / Room / Tag Ref.

192,046 BTU/h

179,617 BTU/h



CENTRALIZED SYSTEM - GYM UNIT

62.63

3/8 / 7/8 - 0.0ft (0) 3/8 / 7/8 - 0.0ft (0)

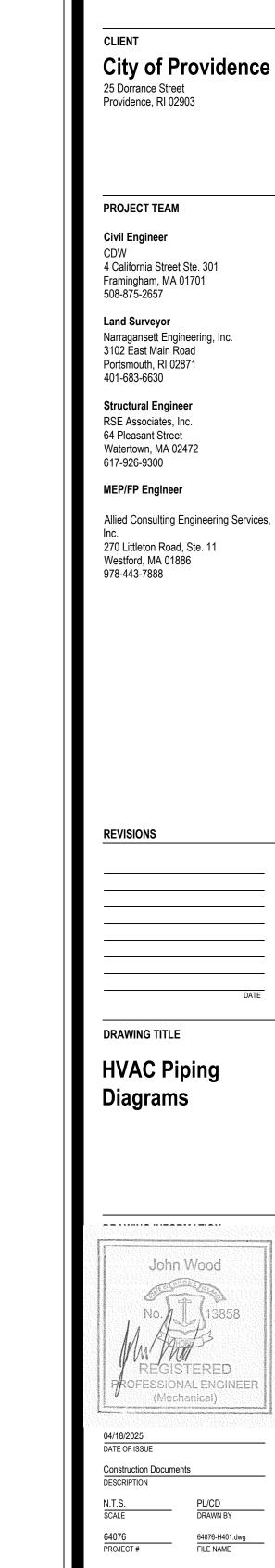
HPCU

PUHY-EP192TSNU-A1

0.0ft (0) 12 / 12 / LEV-1

195,194 BTU/h 179,617 BTÚ/h

5/8 / 1-1/8



DRAWING NUMBER

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H401

ARCHITECT

bh+a

Boston, MA 02210 (617) 350 0450

PROJECT NAME

227 Dudley Street Providence, RI 02907

Davey Lopes

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

Recreation Center

Sharal Desizate (Lean) 2001 (Edium) Ed070 70\ Ed07E\ UMAC\ Ed07E UMAC\ Ed07E\ DMAC\ Ed07E\ Ed07E\ DMAC\ Ed07E\ Ed07E\ Ed07E\ Ed07\ Ed07E\ Ed07

GENERAL NOTES:

- 1. THE E.C. SHALL COORDINATE APPLIANCE REQUIREMENTS. CENTERLINE OF OUTLETS, NEMA CONFIGURATION OF RECEPTACLES, CORDS, PLUGS AND SWITCHES WITH THE ARCHITECT AND ARCHITECTS DRAWINGS PRIOR TO INSTALLING OUTLET BOXES AND ROUGHING BRANCH CIRCUIT WIRING.
- . COORDINATE THE CENTER-LINE OF ALL OUTLET BOXES, SPECIFIC LOCATION AND ROUGH WIRING PRIOR TO INSTALLING DEVICES FOR ALL APPLIANCES AND EQUIPMENT. REFER TO THE ARCHITECTS DRAWINGS AND MANUFACTURERS SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
- NOT USED.
- 4. ALL INTERIOR WIRING RUN IN CONCEALED SPACES SHALL BE COPPER, MINIMUM #12 AWG FLEXIBLE MC CABLE RATED 600 VOLTS, 90 DEGREE IN DRY LOCATIONS / 75 DEGREE IN IN WET LOCATIONS, TYPE THHN/THWN.
- 5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES, DEVICES AND EQUIPMENT.
- 6. WORK SHALL COORDINATE WITH THAT OF OTHER TRADES TO MINIMIZE CONFLICTS AND ELIMINATE INTERFERENCES.
- 7. EXACT LOCATION OF MECHANICAL, FIRE PROTECTION AND PLUMBING SYSTEM EQUIPMENT SHALL BE VERIFIED WITH THE APPROPRIATE CONTRACTOR PRIOR TO INSTALLING THE SYSTEMS.
- 8. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF WORK TO BE PERFORMED PRIOR TO BIDDING AND VERIFY ANY DIMENSIONS OF RELEVANT WORK TO BE BID.
- 9. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER AND THE CONTRACTOR SHALL KEEP
- 10. ALL WORK SHALL CONFORM TO THE R.I. ELECTRICAL CODE, NATIONAL ELECTRIC CODE AND THE LOCAL AUTHORITIES HAVING JURISDICTION.

HIS PORTION OF THE WORK CLEAN AND ORDERLY.

- 11. ALL IT WORK SHALL BE COORDINATED WITH THE IT CONSULTANTS DESIGN AND EQUIPMENT SPECIFICATIONS.
- 12. PROVIDE SLEEVES IN FLOORS, WALLS AND FOUNDATION WALLS REQUIRED TO INSTALL THE WORK SHOWN ON THE
- 13. OUTLET BOXES MUST HAVE A HORIZONTAL SEPARATION NOT LESS THAN 24"INCHES WHEN INSTALLED IN A FIRE RATED ASSEMBLY UNLESS AN OUTLET BOX IS LISTED FOR CLOSER SPACING OR PROTECTED BY FIRE RESISTANT " PUDDY PADS "IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS.

GENERAL NOTES

- NEW DEVICES ARE TO BE LOCATED ON NEW CONSTRUCTION OR EXISTING CONSTRUCTION THAT COULD EASILY ACCOMMODATE NEW CONCEALED WIRING WITH MINIMAL EFFORT IN CERTAIN SITUATIONS IF IT'S ACCEPTABLE BY CODE AND MINIMIZES THE EFFORT, WIRING COULD BE FISHED IN EXISTING CONSTRUCTION USING METAL SHEATHED CABLE.
- ALL NEW WIRING SHALL BE CONCEALED WHERE POSSIBLE. LONGER RUNS SHALL BE MADE, AS REQUIRED, TO MEET THIS REQUIREMENT.
- WHERE EXISTING CONDITIONS PROHIBITS CONCEALED WIRING INSTALLATION SUCH AS A DEVICE LOCATED ON AN EXISTING CONCRETE, CMU, OR SOLD PLASTER WALL, DEVICES AND WIRING CAN BE EXPOSED SURFACE MOUNTED USING WIREMOLD RACEWAY AND BOXES, SURFACE RACEWAY IS TO BE MINIMUM NECESSARY TO GET TO A CONCEALED SITUATION -ALL EXPOSED INSTALLATIONS SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.

GENERAL NOTES

RELOCATED WORK SHALL BE LOCATED ON NEW CONSTRUCTION OR EXISTING CONSTRUCTION THAT COULD EASILY ACCOMMODATE CONCEALED WIRING WITH MINIMAL EFFORT. ALL RELOCATED WIRING SHALL BE CONCEALED WHERE POSSIBLE. LONGER RUNS SHALL BE MADE, AS REQUIRED, TO MEET THIS REQUIREMENT. WHERE EXISTING CONDITIONS PROHIBITS CONCEALED WIRING INSTALLATION SUCH AS A CONDUITS LOCATED ON AN EXISTING CONCRETE, CMU, OR SOLD PLASTER WALL, DEVICES AND WIRING CAN BE EXPOSED SURFACE MOUNTED USING WIREMOLD RACEWAY AND BOXES. SURFACE RACEWAY IS TO BE MINIMUM NECESSARY TO GET TO A CONCEALED SITUATION - ALL EXPOSED INSTALLATIONS SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.

GENERAL NOTES

ADDITIONAL SCOPE:

- COORDINATE AND CIRCUIT ALL HVAC AND PLUMBING EQUIPMENT - REFER TO RELEVANT PLANS FOR CURRENT INFORMATION INCLUDING LOCATIONS AND CIRCUIT SIZES. 2. COORDINATE A/V / I.T. AND SECURITY REQUIREMENTS WITH RESPECTIVE CONSULTANTS. NOTE THAT ALL LINE
- NOT SHOWN. MC CABLE IS ACCEPTABLE FOR CONCEALED INSTALLATION ONLY. USE PAINTED EMT FOR EXPOSED AREAS.

VOLTAGE REQUIRED FOR THE LOW VOLTAGE SYSTEMS IS

4. WHERE CONFLICTS EXIST IN THE CONTRACT DOCUMENTS, THE LARGER QUANTITY / QUALITY SHALL BE CARRIED.

LIGHTING GENERAL NOTE:

REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT FIXTURE LOCATIONS - ARCHITECTURAL LOCATIONS OVER-RIDE THE LOCATIONS SHOWN ON THE ELECTRICAL PLANS.

GENERAL NOTES

- I. ALL WIRING AND RACEWAY SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- THE SIZES OF ELECTRICAL RACEWAY SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS AND SHALL MEET THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING
- ALL WIRE AND CABLE FOR CONTROL INDICATION. ALARM. SIGNAL AND COMMUNICATION SYSTEM, UNLESS OTHERWISE NOTED, SHALL BE SELECTED BY THE SYSTEM SUPPLIER FOR EACH SYSTEM.
- 4. MINIMUM WIRE SIZE SHALL BE #12 SOLID AWG FOR 20A LIGHTING/ RECEPTACLE BRANCH CIRCUIT; #12 AWG SOLID FOR #20A. APPLIANCE BRANCH CIRCUITS; #10 SOLID AWG FOR 30A. DRYER BRANCH CIRCUIT; #8 STRANDED AWG FOR 40 TO 50A; RANGE CIRCUIT
- 5. MINIMUM WIRE SHALL BE #12 FOR BRANCH CIRCUIT RUNS UP TO 100' TO THE LAST OUTLET; OVER 100'-#10; OVER 150'-#8 AND INCREASE CONDUIT SIZE AS REQUIRED BY LOCAL FLECTRICAL CODE.
- 6. ALL WIRING INSTALLATION SHALL BE COLOR CODED AS PER CODE. CONDUCTORS SIZED #10 AND LOWER SHALL BE SOLID; #8 AND HIGHER STRANDED.
- ALL WIRING DEVICES, PANEL BOARDS, DISTRIBUTION BOARDS, MOTORS, ETC., SHALL BE GROUNDED AS PER LOCAL ELECTRIC CODE.
- 8. ALL WORK SHALL BE INSTALLED IN FULL ACCORDANCE WITH LOCAL CODES, STATE AND LOCAL AUTHORITIES. FILE ALL PLANS, OBTAIN ALL PERMITS, PAY ALL FEES, SCHEDULE ALL INSPECTIONS, MAKE ALL TESTS AND OBTAIN ALL APPROVALS REQUIRED. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF NATIONAL ELECTRIC CODE AND LOCAL AUTHORITIES HAVING JURISDICTION. ALL COMPONENTS SHALL BE UL APPROVED AND LISTED.
- WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS. SPECIFICATIONS, & LAWS & ORDINANCES, THE MOST STRINGENT SHALL APPLY.
- 10. SUBMIT FOR APPROVAL, COMPLETE SHOP DRAWINGS, LIST OF MATERIALS AND DETAILED DATA OF EQUIPMENT GIVING THE MANUFACTURERS NAME, CATALOG NUMBER, SIZE, CAPACITY AND DIMENSIONS. NO EQUIPMENT SHALL BE INSTALLED OR FABRICATED WITHOUT OBTAINING APPROVAL
- 11. ALL MOTORS SHALL BE SUPPLIED WITH MOTOR STARTERS BY OTHERS UNLESS CLEARLY INDICATED OTHERWISE ON THE CONTRACT DOCUMENTS. SHORT CIRCUIT PROTECTION SHALL BE BY MCP OR FUSED DISCONNECT SWITCH AS SHOWN OR SPECIFIED.
- 12. MANUALLY CONTROLLED SINGLE PHASE MOTORS SHALL HAVE FULLY RATED MANUAL MOTOR STARTER SWITCHES WITH O.L. HEATERS IN EACH UNGROUNDED LEG.
- 13. CIRCUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. CONDUITS AND CABLES SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.
- 14. CABLES/CONDUCTORS SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTIONS TO MOTORS AND OTHER FQUIPMENT.
- 15. THE QUANTITY AND SIZE OF WIRES AND CONDUIT SHOWN ON DRAWINGS AND WIRING DIAGRAMS REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE FOUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS
- 16. SWITCHES SHALL BE MOUNTED 4'-0" MAX ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. RECEPTACLES SHALL BE MOUNTED 1'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- 17. ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE TO THE FLOOR SHALL NOT EXCEED 6'-7".
- 18. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHT FIXTURE LOCATIONS. LIGHTING FIXTURES SHALL BE MOUNTED ACCORDING TO THE MOUNTING HEIGHT GIVEN ON THE ARCHITECTURAL DRAWINGS, WITH THE DISTANCE BEING MEASURED FROM THE BOTTOM OF THE LIGHTING FIXTURE TO THE FINISHED FLOOR.
- 19. THE HVAC CONTROL EQUIPMENT AND MISCELLANEOUS DEVICES, OUTLET, SWITCHES, JUNCTION, PULL AND TERMINAL BOXES SHALL BE PROVIDED WITH NEMA ENCLOSURE SUITABLE TO THE ENVIRONMENT.
- 23. CONDUIT FOR WIRING CONCEALED IN FLOOR SLABS, OR BELOW GRADE SHALL BE 1" MINIMUM PVC.
- 24. CONFIRM EXACT POWER REQUIREMENTS AND CONNECTION LOCATIONS FOR ALL EQUIPMENT PRIOR TO INSTALLATION WITH PLUMBING, HVAC AND GENERAL CONTRACTOR.
- 25. COORDINATE THE CENTER-LINE OF ALL OUTLET BOXES, SPECIFIC LOCATION AND ROUGH WIRING PRIOR TO INSTALLING DEVICES FOR ALL APPLIANCES AND EQUIPMENT. REFER TO THE ARCHITECTS DRAWINGS AND MANUFACTURERS SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
- 26. WORK SHALL COORDINATE WITH THAT OF OTHER TRADES TO MINIMIZE CONFLICTS AND ELIMINATE INTERFERENCES.
- 27. EXACT LOCATION OF MECHANICAL, FIRE PROTECTION AND PLUMBING SYSTEM EQUIPMENT SHALL BE VERIFIED WITH THE APPROPRIATE CONTRACTOR PRIOR TO INSTALLING THE
- 28. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER AND THE CONTRACTOR SHALL KEEP HIS PORTION OF THE WORK CLEAN AND ORDERLY.
- 29. ALL 20A; GFCI RECEPTACLES INSTALLED OUTDOORS IN WET OR DAMP LOCATIONS SHALL BE LISTED WEATHER-RESISTANT.
- 30. PROVIDE RAIN-TIGHT WHILE IN USE COVERS ON ALL OUTDOOR GFCI RECEPTACLES.
- 31. ALL EXTERIOR DISCONNECTS ARE TO BE NEMA-3R.
- 32. HVAC EQUIPMENT LOCATED WITHIN SITE OF RESPECTIVE ELECTRICAL PANEL ARE NOT REQUIRED TO HAVE A DISCONNECT.
- 33. WALL MOUNTED HVAC EQUIPMENT NOT WITHIN SITE OF RESPECTIVE ELECTRICAL PANEL SHALL HAVE A DISCONNECT SWITCH MOUNTED ADJACENT TO EQUIPMENT.

BRANCH CIRCUIT WIRING

- 1. ALL BRANCH CIRCUIT WIRING SHALL BE COPPER TYPE AS LISTED IN THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 2. FOR CLARITY, ALL BRANCH CIRCUIT WIRING IS NOT SHOWN, HOWEVER A COMPLETE BRANCH CIRCUIT WIRING SYSTEM IS TO BE INSTALLED IN ACCORD WITH THE DEVICES AND CIRCUIT NUMBERS SHOWN. WIRING SHOWN ON DRAWINGS IS FOR SPECIFIC ROUTES OR SPECIAL
- 4. ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. NO SHARED NEUTRALS WILL BE ALLOWED. A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS.
- 5. <u>TYPICAL CIRCUITING</u> " DENOTES FIXTURE TYPE. 'P1A,33" DENOTES PANEL & CIRCUIT NUMBER. o" DENOTES SWITCH CONTROL ALTERNATIVELY CIRCUITING MAY BE LOOPED

CONDITIONS

MEP COORDINATION

- ALL ELECTRICALLY POWERED HVAC, PLUMBING AND FIRE PROTECTION EQUIPMENT SHALL BE PROVIDED WITH LOCAL DISCONNECT SWITCHES. THE SWITCHES SHALL BE PROVIDED BY THE E.C. UNLESS NOTED OTHERWISE. ALL DISCONNECTS SHALL BE ACCESSIBLE.
- 2. DUCT SMOKE DETECTORS SHALL BE SUPPLIED BY THE E.C.(FIRE ALARM EQUIPMENT SUPPLIER), INSTALLED IN THE DUCTWORK BY THE HVAC CONTRACTOR AND WIRED BY THE E.C.
- 3. ALL MOTOR STARTERS SHALL BE FURNISHED BY THE HVAC, PLUMBING OR FIRE PROTECTION SUBCONTRACTOR (TO DIVISION 16 SPECIFICATION REQUIREMENTS). INSTALLED AND WIRED BY THE E.C. STARTERS WILL BE MAGNETIC ACROSS THE LINE (AMBIENT COMPENSATED MOTOR OVERLOAD HEATERS IN ALL CURRENT CARRYING CONDUCTORS) WITH HOA SWITCH. MANUAL TOGGLE TYPE FOR SINGLE PHASE MOTORS WHICH DO NOT REQUIRE AUTOMATIC
- SPEED CONTROL: LINE VOLTAGE SPEED CONTROL SWITCHES FOR FRACTIONAL HORSEPOWER MOTORS THAT REQUIRE SPEED CONTROL SHALL BE SUPPLIED BY THE HVAC CONTRACTOR AND INSTALLED AND WIRED BY THE E.C.
- SPEED CONTROL: VARIABLE SPEED DRIVES (VSD) SHALL BE SUPPLIED BY THE DRIVEN EQUIPMENT'S SUPPLIER, INSTALLED AND WIRED BY THE E.C.
- 6. THERMOSTATS ARE SHOWN ON THE MECHANICAL PLAN PROVIDE FOR EACH THERMOSTAT PER THE LEGEND ((T) SYMBOL).
- 7. ALL DISCONNECTS FOR MECHANICAL UNITS ARE TO BE MOUNTED SECURELY TO THE FLOOR / STRUCTURE. THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL UNISTRUT AND MOUNTING HARDWARE AS REQUIRED TO MOUNT THE DISCONNECTS.

AUDIO/VISUAL DEVICE LEGEND CONTROL PANEL +CP EXTRON MLC 62 RS D TOUCH PANEL CRESTRON TSW-1070-B-S WITH BACK BOX CRESTRON DM-TX-200-C-2G-B-T SHURE UA-874 ANTENNA WITH WALL MOUNTED BRACKET SOUND BAR JABRA PANACAST 50 CRESTRON DM-RMC-4KZ-100-C CRESTRON SAROS IC6T-W-T CEILING SPEAKER CHIEF PAC-526 BOX SEE WALL ELEVATIONS FOR CONDUIT REQUIREMENTS PROVIDE PULL STRINGS IN EACH CONDU

GENERAL NOTES

- THE DRAWINGS AND SPECIFICATIONS INDICATE THE INTENT OF THE DESIGN AND SHALL BE CONSIDERED AS DIAGRAMMATIC ONLY, EXACT LOCATIONS FOR AUDIO/VISUAL DEVICES AND EQUIPMENT SHALL BE DETERMINED AT THE SITE. AS WORK PROGRESSES DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR
- USE ONLY PRODUCTS LISTED FOR THEIR INTENDED USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), EXCEPT THOSE TYPES OF PRODUCTS FOR WHICH NO **RELEVANT STANDARDS EXIST**
- WHERE ELECTRICAL POWER OUTLETS, CONNECTION POINTS AND LIGHTING ARE SHOW ON THE AUDIO/VISUAL DRAWINGS. THEY ARE INCLUDED ONLY FOR LOCATION COORDINATION PURPOSES. REFER TO THE ELECTRICAL POWER & LIGHTING DRAWING FOR THEIR ACTUAL INSTALLATION AND CONSTRUCTION.
- CONDUITS AND EQUIPMENT OF ALL TRADES SHALL BE PROPERLY COORDINATED AND SET TO MAINTAIN THE CLEARANCES REQUIRED BY APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- MOUNTING HEIGHTS SHALL BE AS INDICATED ON ARCHITECTURAL DRAWINGS.

INTRUSION/ACCESS CONTROL SYMBOLS **DESCRIPTION** INTERCOM OUTLET, MS - INDICATES MASTER STATION UNIT SECURITY SYSTEM MOTION DETECTOR, CEILING MOUNTED ELECTRIC STRIKE, DOOR SYSTEM W/DOOR CONTACT, 1 PER LEAF ELECTRIC POWERED TRANSFER HINGE SECURITY SYSTEM CARD READER GB GLASS BREAK DB DURESS BUTTON EL ELECTRIC LOCK WITH REQUEST-TO-EXIT HANDICAP DOOR OPERATOR SECURITY SYSTEM CCTV CAMERA SECURITY SYSTEM PANIC BUTTON NOTES: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING A COMPLETE RACEWAY SYSTEM INCLUDING WIRING, RACEWAY, BOXES, ETC. THE EXACT LOCATION OF ALL SYSTEM COMPONENTS IS TO BE COORDINATED WITH THE EQUIPMENT INSTALLER AND BE ADJUSTED ACCORDINGLY. THE ARCHITECT / ENGINEER IS TO BE NOTIFIED OF ANY CONFLICTS OR FIELD MODIFICATIONS PRIOR TO INSTALLATION OF WORK. COORDINATE WITH TECHNOLOGY DRAWINGS TOO1 THRU T601 AND SPECIFICATIONS FOR BOX AND CONDUIT SIZES AND EXACT OUTLET DEVICES, WIRING SPECIFICATIONS LOW VOLTAGE WIRING DEVICE LEGEND WIRELESS ACCESS POINT (2) -CAT 6 CABLES WALL MOUNTED DATA 1 LOCATION WALL MOUNTED DATA 2 LOCATION (2) - CAT 6 CABLES WALL MOUNTED DATA 3 LOCATION (3) - CAT 6 CABLES WALL MOUNTED DATA 4 LOCATION WALL MOUNTED DATA 2 LOCATION - COORDINATE WITH DISPLAY (2) - CAT 6 CABLES) - HDMI CABLI FLOOR MOUNTED DATA 4 LOCATION (4) - CAT 6 CABLES WALL MOUNTED DATA 1 LOCATION - FOR SECURITY CAMERA (1) - CAT 6 CABLE CEILING MOUNTED DATA 1 LOCATION - FOR SECURITY CAMERA 1) - CAT 6 CABLE WALL MOUNTED DATA 1 LOCATION - FOR VIDEO INTERCOM (1) - CAT 6 CABLE "F" DENOTES EXISTING OUTLET LOCATIONS FOR TELECOMMUNICATIONS OUTLETS, PROVIDE BOX WITH CONDUIT FROM BOX TO 3" ABOVE AN ACCESSIBLE CEILING OR INTO THE TELECOM ROOM, INCLUDE PULL STRING AND TERMINATED WITH AN INSULATED BUSHING. BOXES SHALL BE RECESSED. 1"C., 4 11/16" x 2 1/8" BOX WITH 5/8" RAISED SINGLE GANG PLASTER RING. RACO #259 & 843 OR EQUAL. FOR TELEPHONE OUTLIET, PROVIDE SINGLE GANG BOX AND PLASTER RING BOX WITH 3/4" CONDUIT TERMINATED WITH AN INSULATING BUSHING TO 3" ABOVE AN ACCESSIBLE CEILING OR INTO THE TELECOM ROOM WITH A PULL STRING. ALL CONDUITS, BACK BOXES AND PLASTER RINGS WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TELECOMMUNICATIONS CONTRACTOR SHALL COORDINATE AND VERIFY THE OUTLET LOCATIONS BY REFERRING TO THE ARCHITECTURAL DRAWINGS AND DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS. TELECOM CONTRACTOR SHALL RUN DATA CABLING FOR SECURITY LOCK GATEWAYS AND VIDEO INTERCOMS. CONTRACTOR TO REFER TO SECURITY DRAWINGS FOR ADDITIONAL INFORMATION.

LOW VOLTAGE WIRING DEVICE LEGEND (1) - 22/6 SHIELDED M / E | (1) - 22/6 SHIELDED | E = EXISTING TO REMAIN; M = MULLION READER | W = WIRELESS LOCKS DOOR CONTACT LOCATION (1) - 18/4 SHIELDED FOR DOOR CONTACT REQUEST TO EXIT LOCATION ELECTRIFIED LOCK LOCATION (1) - 16/2 SHIELDED (1) - 16/2 SHIELDED PANIC BUTTON (1) - 18/4 SHIELDED MOTION SENSOR LOCATION MS KEY PAD LOCATION KP (1) - 18/4 SHIELDED VIC VIDEO INTERCOM LOCATION 4-11/16" JUNCTION BOX SECURITY NOTES: TELECOM CONTRACTOR SHALL RUN DATA CABLING FOR ALL SECURITY CAMERA

SECURITY CONTRACTOR TO REFER TO TELECOM DRAWINGS FOR ADDITIONAL

INFORMATION/.

SYMBOLS DESCRIPTION 20A, 125 VAC 2P., 3W., GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL 2x4 FLUORESCENT LIGHTING FIXTURE CEILING OR RECESSED MOUNTED. MOUNTED. DECORA STYLE "F1" INDICATES FIXTURE TYPE, "LP,2" RECEPTACLE, DUPLEX, FLUSH MOUNTED INDICATES CIRCUIT NUMBER. "a" IN FLOOR BOX. COVERPLATE AS APPROVED BY ARCHITECT. (2) 20A, 125 VAC 2P., 3W., GROUNDING TYPE, DUPLEX RECEPTACLES FLUSH MOUNTED IN FLOOR JUNCTION BOX WITH FLUSH FACEPLATE AND DATA OUTLET. WIREMOLD #RFB2 SERIES OR EQUAL 20A, 125 VAC 2P., 3W., GROUNDING TYPE, DOUBLE DUPLEX RECEPTACLE 2' X 2' RECESSED DOWN LIGHT / PENDANT IN ACOUSTIC CEILING TILE FLUSH WALL MOUNTED. RECEPTACLE, DUPLEX GFCI PROTECTED # SEE NOTES FOR METHOD OF PROTECTION. USE GFCI OUTLET STANDARD U.N.O. DUPLEX GFCI RECEPTACLE MOUNTED 6" SURFACE MOUNTED ROUND LIGHT ABOVE COUNTER PROOF COVER/BOX FEATURE ROUND PENDANT 36" FEATURE SQUARE PENDANT 2x2 TO EQUIPMENT WALL MOUNTED. 60"AFF, U.O.I. UP/DOWN EXTERIOR WALL LIGHT FARMHOUSE STYLE EXTERIOR WALL HOMERUN TO PANEL (J) MOTOR EMERGENCY EXTERIOR WALL FIXTURE EXIT SIGN; ARROW INDICATES DIRECTION ACCESSIBLE CEILING. PROVIDE SIMILAR FIXTURE TYPES AS SCHEDULED IN THE LIGHTING RACEWAY FOR OTHER HVAC CONTROLS SUCH AS HUMIDISTATS, ETC. DISTRIBUTION PANEL/SWITCHBOARD SWITCHES MAY HAVE MULTIPLE LETTERING APPLIED TO ALL DIMMERS SHALL BE A PRODUCT OF LUTRON (OR APPROVED EQUAL) SELECTED BY THE LIGHTING ALL DEVICES SHALL BE DECORA STYLE MANUFACTURER REPRESENTATIVE TO MATCH THE LOAD WHERE AVAILBLE

POWER LEGEND

COMMUNICATION LEGEND

LIGHTING LEGEND

INDICATES SWITCH CONTROL

RECESSED LINEAR FIXTURE

RECESSED DOWNLIGHT

LINEAR PENDANT

GYM HI-BAY PENDANT

LINEAR COVE LIGHT

LINEAR WALL SCONCE

RECTANGULAR WALL SCONCE

EXTERIOR KIPP WALL LIGHT

POLE SITE LIGHTING FIXTURE

THEM E.G. "3K" = 3 WAY KEYED SWITCH.

AND LAMP/BALLAST TYPE.

DESCRIPTION

SYMBOLS

•

LP,2

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SCHEDULE.

SYMBOLS	DESCRIPTION
▼	TELEPHONE OUTLET WITH 1" CONDUIT AND CABLING RUN
₹	DATA OUTLET (TWO/FOUR JACKS EACH) WITH 1" CONDUIT AND CABLING RUN TO THE 2ND FLOOR I.T. CLOSET. # OF JACKS PER TEL-DATA PLANS
$oldsymbol{ abla}_{wifi}$	DATA OUTLET FOR WIRELESS ACCESS POINT (MOUNTED AT/ABOVE CEILING) WITH 1" CONDUIT AND CABLING RUN TO THE 2ND FLOOR I.T. CLOSET
₩	CABLE TV OUTLET WITH DATA IN A 4" SQUARE BOX WITH SINGLE GANG EXTENSION RING WITH COVER PLATE, WITH 1" CONDUIT AND CABLING RUN TO THE 2ND FLOOR I.T. CLOSET. COORDINATE THE MOUNTING HEIGHT TO BE BEHIND THE T.V LOCATION.
СОМ	COMMUNICATIONS BACKBOARD FOR HOUSE — TELEPHONE, DATA AND CABLE TV. INCLUDE A 1" THICK PLYWOOD BACKBOARD 4'x4'.
[A/V]	AUDIO/VISUAL TECHNOLOGY BACKBOX AND OUTLETS AS SPECIFIED PER TECH DWG'S/OWNER SPECS, SEE DETAILS
WAP CLG	WIRELESS ACCESS POINT, CEILING MOUNTED
AED	AED CABINET, "AUTO EXTERNAL DEFIBRILLATOR" RECESSED MOUNTED EMERGENCY CABINET WITH LOCAL ALARM, PROVIDE CONNECTIONS TO FACP

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING A COMPLETE WIRING AND RACEWAY SYSTEM INCLUDING WIRING, RACEWAY, BOXES, ETC. THE EXACT LOCATION OF ALL SYSTEM COMPONENTS IS TO BE COORDINATED WITH THE EQUIPMENT INSTALLER AND BE ADJUSTED ACCORDINGLY. THE ARCHITECT / ENGINEER

MODIFICATIONS PRIOR TO INSTALLATION OF WORK. INCLUDE FIRE ALARM INTERFACE TO ALL SOUND SYSTEMS IN THE BUILDING TO SHUT OFF SOUND SYSTEM UPON THE PAC 526 BACKBOXES ARE TO BE INCLUDED BY THE

IS TO BE NOTIFIED OF ANY CONFLICTS OR FIELD

ELECTRICAL CONTRACTOR.

FIRE ALARM LEGEND SYMBOLS **DESCRIPTION**

KNOX BOX ADDRESSABLE INTELLIGENT FIRE ALARM SYSTEM CONTROL PANEL - WITH 2 LINE FACP ____ DIALER CONNECTED TO TELEPHONE BACKBOARD. FIRE ALARM SYSTEM ADDRESSABLE PULL Р STATION - SEMI FLUSH MOUNTED; USE CONVENTIONAL DEVICE IN UNHEATED AREAS WITH MONITOR MODULE LOCATED IN HEATED AREA. ADDRESSABLE INTELLIGENT CEILING MOUNTED FIRE ALARM SYSTEM PHOTOELECTRIC TYPE SMOKE DETECTOR WITH BASE. DUCT SMOKE DETECTOR

(DUPLEX GFCI RECEPTACLE WITH WEATHER SYSTEM HEAT DETECTOR, RATE OF RISE DOOR HOLD-OPEN STRIKE CONNECTION DUPLEX RECEPTACLE TOP HALF SWITCHED BY THE ELECTRICAL CONTRACTOR - PER MANUFACTURER'S RECOMMENDATIONS. SPECIALTY OUTLET, MATCH OUTLET TYPE DOOR STRIKE BY THE G.C. TIE TO INTERCOM AND FACP PANELS FIRE ALARM SYSTEM CONTROL MODULE 20A, 125 VAC 2P., 3W., GROUNDING TYPÉ, CLOCK HANGER OUTLET, RECESSED MOUNTED AT EQUIPMENT. FIRE ALARM SYSTEM MONITOR MODULE -

MOUNTED AT EQUIPMENT. 20A, 125 VAC 2P., 3W., GROUNDING TYPE, GFCI DUPLEX RECEPTACLE, MOUNTED CARBON MONOXIDE DETECTOR - SYSTEM INSIDE REACH-IN PLENUM RATED ENCLOSURE WITH PLUG-IN CORD REEL. / LOCAL PER LOCATION, ALARMS ASSOCIATED WITH CO DETECTORS ARE TO HUBBELL BOX #HBLIPRBOX, REEL HAVE A DISTINCT TONE. #HBLI45123R220

EXTERIOR STROBE SURFACE PANEL - SEE SCHEDULE(S) FIRE ALARM SYSTEM STROBE SEMI FLUSH FLUSH PANEL - SEE SCHEDULE(S) WALL MOUNTED. CANDELA RATING AS INDICATED.

FIRE ALARM SYSTEM STROBE/HORN FUSED DISCONNECT SWITCH, FUSE SIZE DEVICE SEMI FLUSH WALL MOUNTED. TO MATCH MFR. RECOMMENDATIONS CANDELA RATING AS INDICATED. SPRINKLER SYSTEM FLOW SWITCH. SAFETY SWITCH, HORSEPOWER RATED FURNISHED BY FIRE ALARM SYSTEM JUNCTION BOX SUPPLIER, INSTALLED BY FIRE PROTECTION

(SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL BY FIRE ALARM SYSTEM CONTRACTOR. CONNECTION TO GROUND TAMPER SWITCH - SAME NOTES APPLY AS THERMOSTAT IN A 4" SQUARE BOX WITH THE FLOW SWITCH. SINGLE GANG PLASTER RING IN A VERTICAL ORIENTATION. DEVICE WITH A 3/4" CONDUIT WITH BUSHINGS UP TO

ELECTRICITY USAGE METER

SWITCHES MAY HAVE MULTIPLE LETTERING APPLIED TO

EMERGENCY ALERT LEGEND

BATHROOM PULL STATION

"ANNUNCIATOR"

DOME LIGHT

DESCRIPTION

EMERGENCY ALERT CONTROL PANEL

THEM E.G. "3K" = 3 WAY KEYED SWITCH.

DEVICES SHALL BE DECORA STYLE.

SYMBOLS

DL

		ALI	ADOVE TIMISHED TEOOK
		AIC	AMPERES INTERRUPTING CAPACITY
L	IGHTING LEGEND	ATS	AUTOMATIC TRANSFER SWITCH
		СВ	CIRCUIT BREAKER
MBOLS	DESCRIPTION	CP	CONTROL PANEL
\$	20A, 120/277 VAC SINGLE POLE, TOGGLE AND/OR MOMENTARY SWITCH (SEE	EC	ELECTRICAL CONTRACTOR
	DETAILS) — FLUSH WALL MOUNTED.	EMR	ELEVATOR MACHINE ROOM
•	WALL MOUNTED ULTRASONIC MOTION DETECTOR/SENSOR, SINGLE CIRCUIT —	E	EMERGENCY POWER
\$ U	USE WATTSTOPPER, HUBBELL, LITHONIA OR APPROVED EQUAL MANUFACTURER	EWC	ELECTRIC WATER COOLER
Φ-	3-WAY SWITCH	FACP	FIRE ALARM CONTROL PANEL
\$3	DIMMER COMPATIBLE WITH THE BALLAST	GC	GENERAL CONTRACTOR
	/SENSOR TYPE - INCLUDE ANY	GCP	GENERATOR CONTROL PANEL
\$D	ADDITIONAL LOW VOLTAGE OR LINE VOLTAGE WIRING AS REQUIRED TO	GFI	GROUND FAULT INTERRUPTER (GFCI)
	OPERATE THE DIMMER/FIXTURES — USE LUTRON OR APPROVED EQUAL.	MCB	MAIN CIRCUIT BREAKER
	DUAL TECHNOLOGY OCCUPANCY SENSOR	MDP	MAIN DISTRIBUTION PANEL
- K}►	WITH SYMETRIC DISTRIBUTION WITH POWER PACK AND MOUNTING ACCESSORIES —	MLO	MAIN LUGS ONLY
Y	USE WATTSTOPPER, HUBBELL, LITHONIA OR APPROVED EQUAL MANUFACTURER	MSB	MAIN SWITCH BOARD
	ULTRASONIC OCCUPANCY SENSOR WITH	NTS	NOT TO SCALE
- M)-	CORRIDOR TYPE DISTRIBUTION WITH POWER PACK AND MOUNTING ACCESSORIES —	TBD	TO BE DETERMINED
-w)-	USE WATTSTOPPER, HUBBELL, LITHONIA OR APPROVED EQUAL MANUFACTURER	SP	SURGE PROTECTED
		TC	TIME CLOCK
	LOW VOLTAGE WIRING FOR LIGHTING CONTROLS — SIZED PER MANUFACTURER'S	TP	TAMPER PROOF
- LV	RECOMMENDATIONS — INSTALL IN SEPARATE RACEWAY	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESS
(P)	OCCUPANCY SENSOR POWER PACK	UNO	UNLESS NOTED OTHERWISE
•	LIGHTING CONTROL DANEL LIGE	VFD	VARIABLE FREQUENCY DRIVE
LCP	LIGHTING CONTROL PANEL — USE HUBBELL #CX-8; NEXT TO ELECTRICAL	W	WALL MOUNTED
	PANEL SERVED.	WP	WEATHER PROOF

SUBSCRIPTS & ABBREVIATIONS

ARC FAULT ABOVE FINISHED FLOOR SSION

ABOVE COUNTER TOP

4 California Street Ste. 301 Framingham, MA 01701

508-875-2657 Land Surveyor

PROJECT TEAM

Civil Engineer

ARCHITECT

bh+a

Boston, MA 02210

PROJECT NAME

227 Dudley Street

Providence, RI 02907

Providence, RI 02903

Davey Lopes

(617) 350 0450

Bargmann Hendrie + Archetype, Inc

9 Channel Center Street, Suite 300

Recreation Center

City of Providence

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

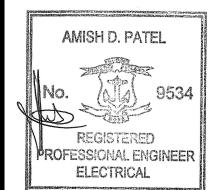
MEP/FP Engineer

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 1 Westford, MA 01886 978-443-7888

REVISIONS

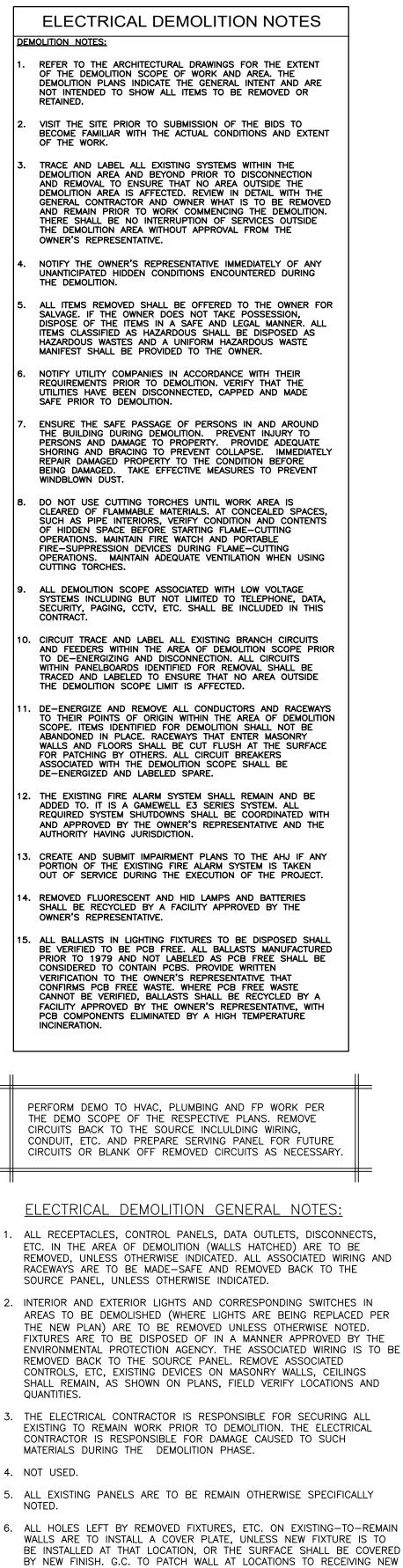
DRAWING TITLE **ELECTRICAL** Legend

DRAWING INFORMATION



nstruction Documents

DRAWING NUMBER



NEW/EXISTING CONDITIONS BY THE GENERAL CONTRACTOR.

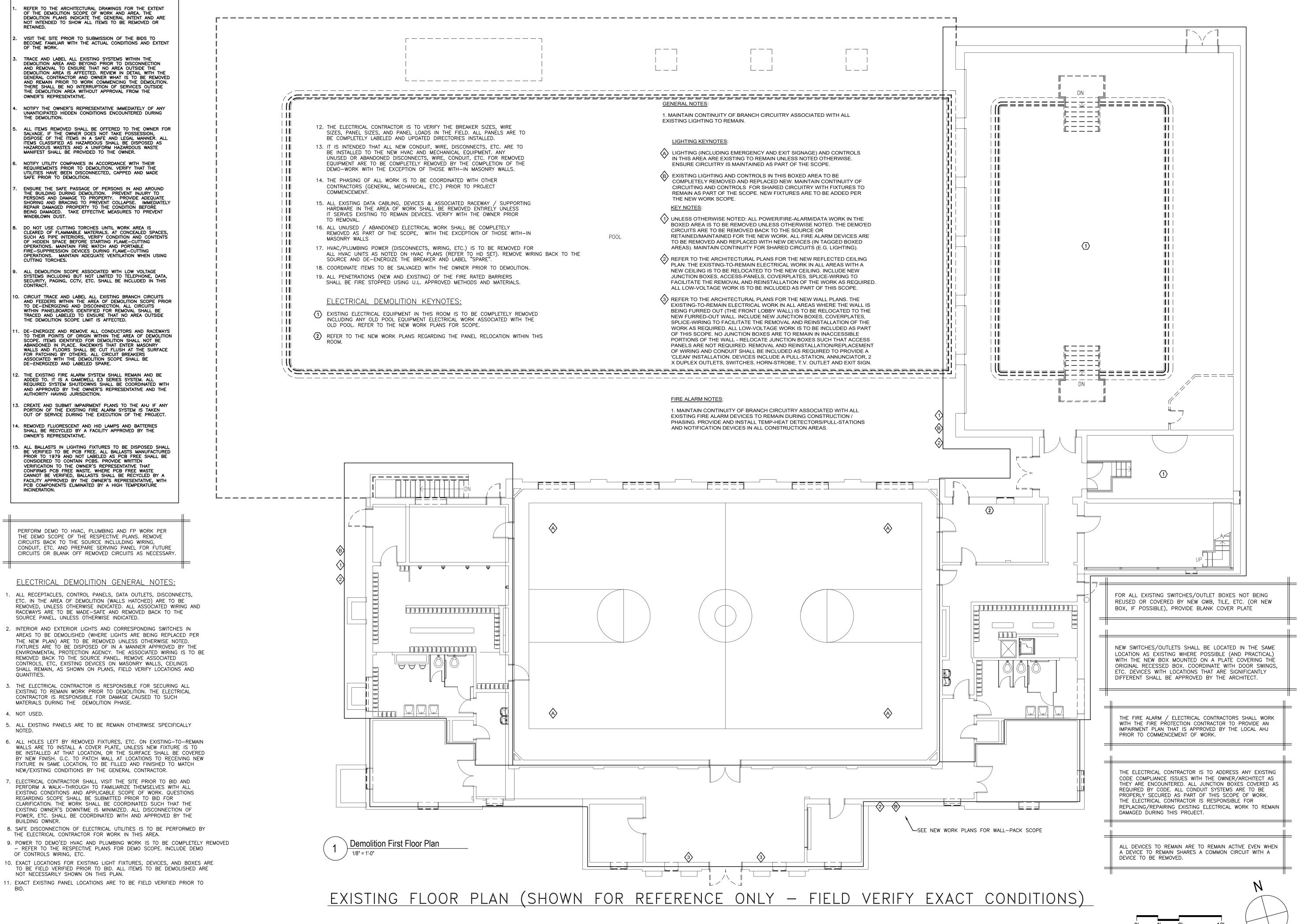
REGARDING SCOPE SHALL BE SUBMITTED PRIOR TO BID FOR

THE ELECTRICAL CONTRACTOR FOR WORK IN THIS AREA.

BUILDING OWNER.

OF CONTROLS WIRING, ETC.

NOT NECESSARILY SHOWN ON THIS PLAN.



Bargmann Hendrie + Archetype, Inc 9 Channel Center Street, Suite 300

Recreation Center

City of Providence

Boston, MA 02210 (617) 350 0450

PROJECT NAME

227 Dudley Street

25 Dorrance Street

PROJECT TEAM

4 California Street Ste. 301

Narragansett Engineering, Inc.

Framingham, MA 01701

Civil Engineer

508-875-2657

Land Surveyor

401-683-6630

3102 East Main Road

Portsmouth, RI 02871

Structural Engineer

RSE Associates, Inc.

Watertown, MA 02472

64 Pleasant Street

MEP/FP Engineer

270 Littleton Road, Ste. 1

Westford, MA 01886 978-443-7888

REVISIONS

DRAWING TITLE

ELECTRICAL

Demolition

First Floor

DRAWING INFORMATION

AMISH D. PATEL

Professional Engineer

ELECTRICAL

DRAWING NUMBER

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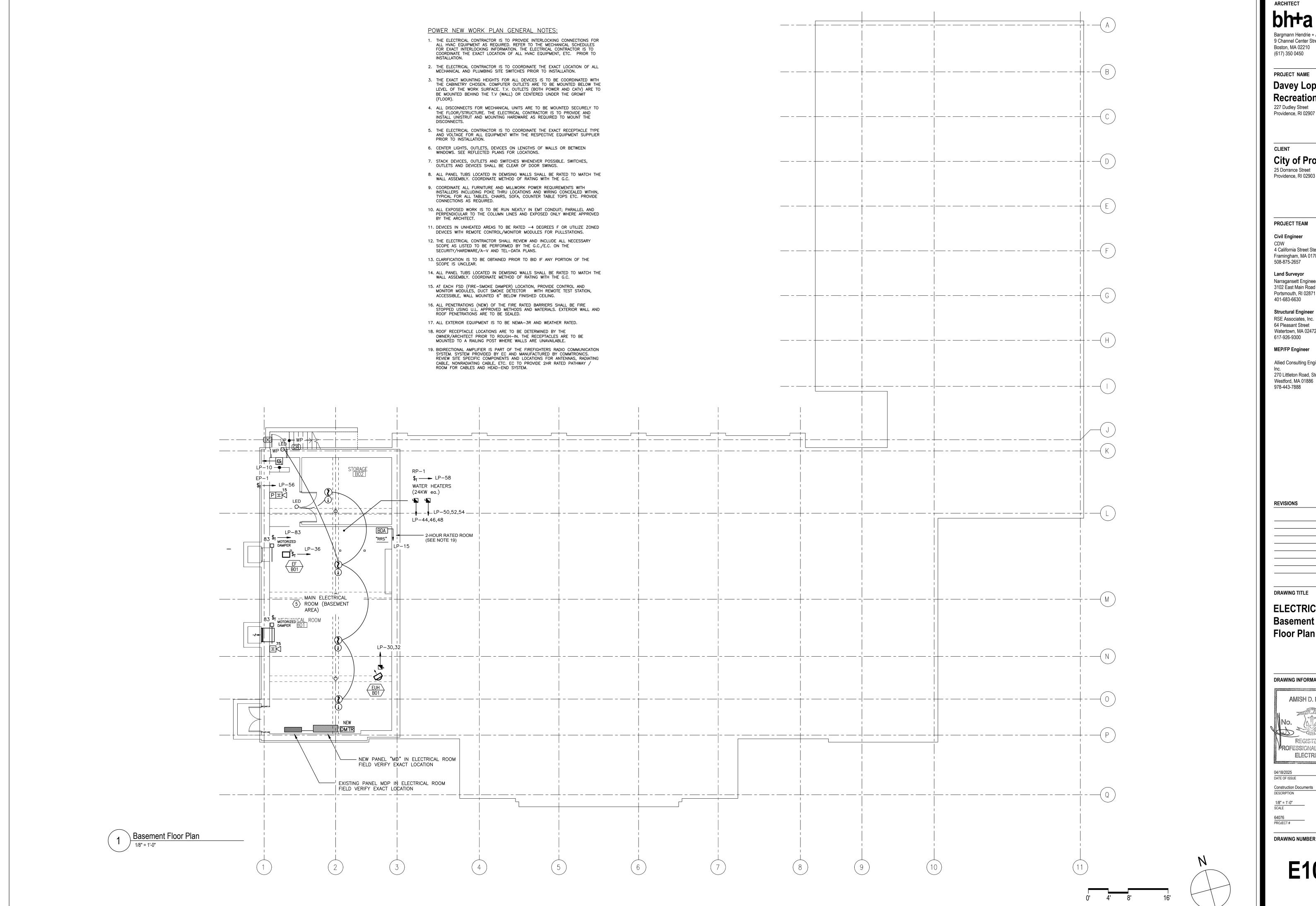
Allied Consulting Engineering Services,

617-926-9300

Providence, RI 02903

Providence, RI 02907

Davey Lopes



ARCHITECT

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center

City of Providence

Providence, RI 02903

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

MEP/FP Engineer

Allied Consulting Engineering Services,

270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

ELECTRICAL Basement Floor Plan

DRAWING INFORMATION

PROFESSIONAL ENGINEER ELECTRICAL

DRAWING NUMBER

E100

KEYNOTES: LEGEND: POWER NEW WORK PLAN GENERAL NOTES: 1. THE ELECTRICAL CONTRACTOR IS TO PROVIDE INTERLOCKING CONNECTIONS (1) THE EXISTING ELECTRICAL PANEL "LPP" IN THIS AREA IS TO BE ALL FIRE ALARM DEVICES ARE NEW UNLESS OTHERWISE INDICATED. FOR ALL HVAC EQUIPMENT AS REQUIRED. REFER TO THE MECHANICAL SCHEDULES FOR EXACT INTERLOCKING INFORMATION. THE ELECTRICAL CONNECT ALL DEVICES TO THE FLOOR TERMINAL CABINET, SEE FA MAINTAINED THROUGHOUT CONSTRUCTION (TO KEEP THE CIRCUITS ACTIVE). RISER AND NOTES FOR ADDITIONAL INFORMATION. THE EXISTING EQUIPMENT SHALL BE RELOCATED TO THE NEW LOCATION CONTRACTOR IS TO COORDINATE THE EXACT LOCATION OF ALL HVAC EQUIPMENT, ETC. PRIOR TO INSTALLATION. INDICATED ON THE PLAN. PROVIDE AND INSTALL NEW SPLICE BOX AND TERMINATIONS AND CONNECTORS (INSTALLED IN AN ACCESSIBLE LOCATION) 2. CENTER LIGHTS, OUTLETS, DEVICES ON LENGTHS OF WALLS OR BETWEEN TO SPLICE THE EXISTING CONDUCTORS (ALL BRANCH WIRES) AND INSTALL NEW EXTENSION WIRE AND CONDUIT (SIZED TO MATCH EXISTING) AS FIRE ALARM PLAN GENERAL NOTES: 3. STACK DEVICES, OUTLETS AND SWITCHES WHENEVER POSSIBLE. SWITCHES, REQUIRED TO FACILITATE THE RELOCATION/REPLACEMENT INCLUDING THE OUTLETS AND DEVICES SHALL BE CLEAR OF DOOR SWINGS. FEEDERS. PHASING OF DEMOLITION AND RELOCATION WORK IS TO BE PRIOR TO SUBMITTING A BID, THE EC IS TO PERFORM A FULL 4. AT EACH FSD (FIRE-SMOKE DAMPER) LOCATION, PROVIDE CONTROL AND MONITOR MODULES, DUCT SMOKE DETECTOR WITH REMOTE TEST STATION, CLOSELY COORDINATED WITH THE G.C. AND OWNER. NEC-REQUIRED WALK THROUGH OF THE VACANT SPACE AND ADJACENT AREAS CLEARANCES ARE TO MAINTAINED FOR ALL NEW LOCATIONS. TO FAMILIARIZE THEMSELVES WITH THE EXISTING FIRE ALARM ACCESSIBLE, WALL MOUNTED 6" BELOW FINISHED CEILING. _____ (2) FIRE ALARM DEVICES NOT SHOWN IN THIS AREA (SELECTED DEVICES 5. CLARIFICATION IS TO BE OBTAINED PRIOR TO BID IF ANY PORTION OF THE SHOWN ONLY) - EXISTING TO REMAIN IN SIMILAR LOCATIONS, HOWEVER, 2. THE MAIN FIRE ALARM CONTROL PANEL IS EXISTING AND SCOPE IS UNCLEAR. REMOVE/RELOCATE PER GENERAL NOTE #11. LOCATED IN THE VENDING AREA SHOWN. 6. PROVIDE MASSACHUSETTS APPROVED BOILER SHUT-OFF SWITCH OUTSIDE BOILER ROOM TO SHUT-OFF ALL GAS / OIL BURNING EQUIPMENT AS 3. ALL FIRE ALARM DEVICES SHALL BE TIED INTO THE BASE (3) THE EXISTING ELECTRICAL PANEL "OMD" IN THIS AREA IS TO BE BUILDING FIRE ALARM SYSTEM. THE FIRE ALARM SYSTEM SHALL MAINTAINED THROUGHOUT CONSTRUCTION (TO KEEP THE CIRCUITS ACTIVE). BE PROGRAMMED TO INCORPORATE THE NEW DEVICES TO 7. ALL EXPOSED WORK IS TO BE RUN NEATLY IN EMT CONDUIT; PARALLEL AND THE EXISTING EQUIPMENT SHALL BE DEMO'ED AND EXISTING-TO-REMAIN FUNCTION AS A WHOLE SYSTEM. ALL WORK SHALL COMPLY PERPENDICULAR TO THE COLUMN LINES. ____ CIRCUITS FED FROM THIS PANEL SHALL BE RE-FED FROM NEW PANEL WITH RHODE ISLAND STATE FIRE CODE AND NFPA 72. 8. ALL EXTERIOR EQUIPMENT IS TO BE NEMA-3R AND WEATHER RATED. "RP" (ADJUST BREAKERS TO MATCH). THE EXISTING FEEDERS SHALL BE DEMO'ED BACK TO THE SOURCE PANEL. PROVIDE AND INSTALL NEW SPLICE 9. DUCT MOUNTED DETECTORS SHALL BE INSTALLED IN EACH BRANCH (PROVIDE BOX AND TERMINATIONS AND CONNECTORS (INSTALLED IN AN ACCESSIBLE QUANTITY AND LOCATION OF DETECTORS PER HVAC CONTRACTOR AS AV RACK REQUIRED) AND SHALL HAVE A REMOTE TEST STATION AND LED MOUNTED ON LOCATION) TO SPLICE THE EXISTING CONDUCTORS (ALL BRANCH WIRES) THE INTERIOR OF THE BUILDING IN A READILY ACCESSIBLE LOCATION AS AND INSTALL NEW EXTENSION WIRE AND CONDUIT (SIZED TO MATCH DIRECTED BY THE OWNER. INCLUDE WIRING AND CONDUIT (1" MINIMUM) FOR 1. AS PART OF THE SCOPE: REMOVE AND DEMO ALL EXISTING FIRE ALARM / EXISTING) AS REQUIRED TO FACILITATE THE DEMO/REPLACEMENT. PHASING THE TEST STATIONS. ALL TEST STATIONS SHALL BE PERMANENTLY LABELED ON SMOKE ALARM COMPONENTS IN THE AREAS SHOWN WITH NEW DEVICES AND ____ OF DEMÓLITION AND RELOCATION WORK IS TO BE CLOSELY COORDINATED RED PLASTIC WITH $\frac{1}{8}$ " TALL WHITE LETTERING. REPLACE WITH THE NEW SYSTEM. WITH THE G.C. AND OWNER. NEC-REQUIRED CLEARANCES ARE TO . G.C. TO INCLUDE CUT / PATCH TO RESTORE WALLS AND CEILINGS TO MATCH 10. PRIOR TO SUBMITTING A BID, THE EC IS TO PERFORM A FULL WALK THROUGH OF THE VACANT SPACE AND ADJACENT AREAS TO FAMILIARIZE MAINTAINED FOR ALL NEW LOCATIONS. CONDITIONS. AV 2G INCLUDE ALL TEMP HEATS AS REQUIRED DURING CONSTRUCTION. THEMSELVES WITH THE EXISTING FIRE ALARM SYSTEM. (4) TEST AND MAIN POWER TO EXISTING PLATFORM ON THIS SIDE OF THE ADDITIONAL DEVICES ARE TO BE ADDED WHERE REQUIRED PER BUILDING. REPAIR CIRCUITS IF REQUIRED. 11. ALL DEVICES SHOWN BELONG TO THE NEW SYSTEM WITH THE EXCEPTION OF NFPA 72 IN AREAS SEPARATED BY CEILING DEVICES LABELED "ETR" - THESE "ETR"-LABELED DEVICES ARE EXISTING AND POCKETS/BEAMS/OPENINGS. FIELD COORDINATE LOCATIONS AS SHALL BE RELOCATED TO ACCOMMODATE ANY CEILING / WALL WORK BUT GENERALLY REMAIN IN THE SAME AREA. REQUIRED. ____ IN ALL AREAS THAT ARE UNHEATED SUBSTITUTE SMOKE DETECTORS WITH HEAT DETECTORS. ____ PROVIDE TEMP-HEATS, PULL-STATIONS AND NOTIFICATION DEVICES CONNECTED TO THE EXISTING MAIN FIRE ALARM SYSTEM (IN VENDING AREA) IN ALL CONSTRUCTION AREAS DURING CONSTRUCTION. FIRE-WATCHES, ETC ARE TO BE TO AMP IN INCLUDED FOR ANY IMPAIRMENTS. PANEL LPP (EXISTING LQCATION) STORAGE W/COVER P (E) FENCE LP−21,23 👃 SG SG ADD WIRE-GUARDS TO ALL DEVICES IN THE GYMNASIUM PAC-526 32" DISPLAY SG SG 75" DISPLAY PAC-526 SB SG SG f 72

SEE ARCH'S DETAILS ——— & ELEVATIONS DWG

CABLE FROM VIDEO

38 (2) 40 (2) 38 (2) 40 (2) 38 (2) **TY TY TY TY**

SURFACE METAL RACEWAY, WIREMOLD G4000 SERIES WITH POWER & DATA BARRIER MOUNT @24"

First Floor Plan

PROJECT NAME Davey Lopes **Recreation Center** 227 Dudley Street Providence, RI 02907 City of Providence 25 Dorrance Street Providence, RI 02903 PROJECT TEAM **Civil Engineer** 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657 Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630 **Structural Engineer** RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300 MEP/FP Engineer Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888 REVISIONS DRAWING TITLE **ELECTRICAL** First Floor DRAWING INFORMATION PROFESSIONAL ENGINEER ELECTRICAL **DRAWING NUMBER** E101 Copyright BH+A, Inc.

PANEL DMD (EXISTING LOCATION - TO BE DEMO'ED)

SG SG

4

Bargmann Hendrie + Archetype, Inc.

9 Channel Center Street, Suite 300

Boston, MA 02210

(617) 350 0450

7.\ Charad Drajoda (1 am) 2004 (64 am) 64076 (510.\ 64076 510.\ 64076 510.\ dag 610.

ARCHITECT

bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center

227 Dudley Street Providence, RI 02907

CLIENT

Providence, RI 02903

City of Providence
25 Dorrance Street

PROJECT TEAM

Civil Engineer CDW 4 California Street Ste. 301 Framingham, MA 01701

508-875-2657

Land Surveyor

Narragansett Engineering, Inc.
3102 East Main Road

Portsmouth, RI 02871

401-683-6630

Structural Engineer
RSE Associates, Inc.
64 Pleasant Street

Watertown, MA 02472 617-926-9300 **MEP/FP Engineer**

Allied Consulting Engineering Services, Inc. 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

DRAWING TITLE

ELECTRICAL
Second Floor

DRAWING INFORMATION

AMISH D. PATEL

No. 9534

REGISTERED

ROFESSIONAL ENGINEER

ELECTRICAL

8/2025
E OF ISSUE
struction Documents

Construction Documents
DESCRIPTION

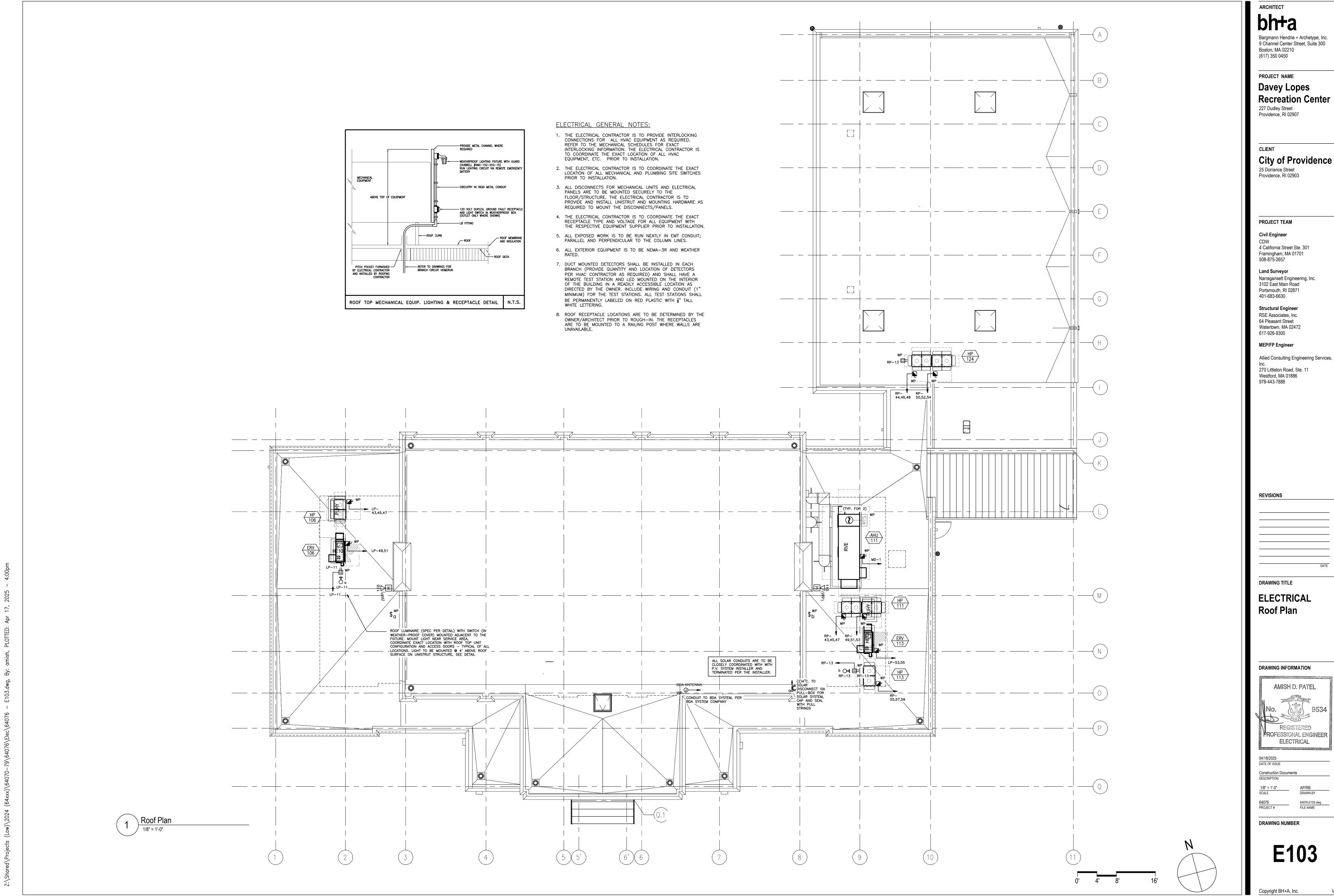
1/8" = 1'-0"

AP/F

E DRAWN BY
6 64076-E102.0

DRAWING NUMBER

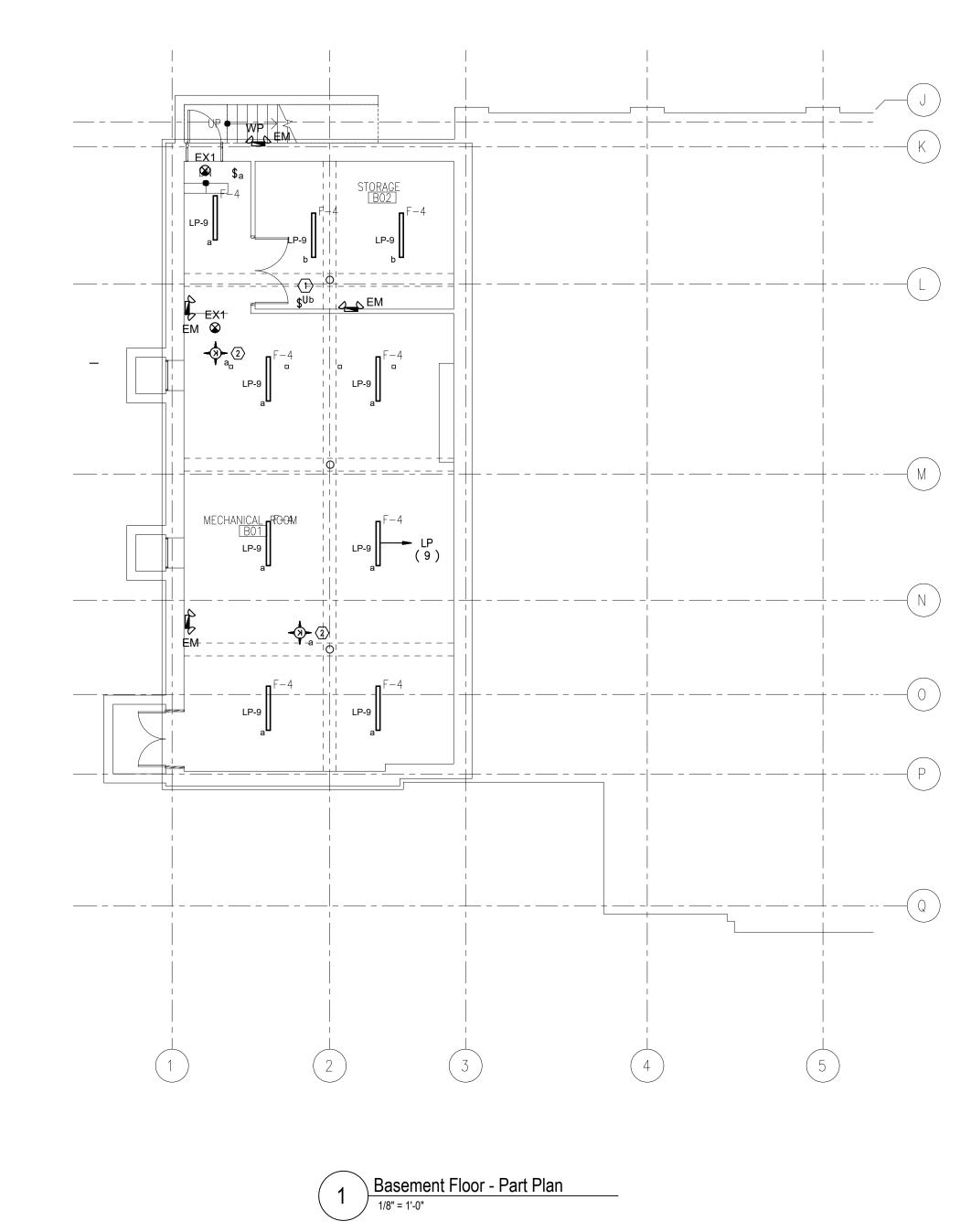
E102



Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

City of Providence

AMISH D. PATEL PROFESSIONAL ENGINEER



LIGHTING SCHEDULE GENERAL NOTES:

ALL FIXTURES INSTALLED IN OR AROUND FIRE RATED OR IC RATED ASSEMBLIES ARE TO BE EQUIPPED WITH RATED BOXES BY TENMAT (SIZE TO SUIT FIXTURE). THE ELECTRICAL CONTRACTOR IS TO VERIFY THE VOLTAGE OF THE FIXTURE WITH THE CIRCUIT AVAILABLE PRIOR TO ORDERING.

MOUNTING HEIGHTS, MOUNTING OPTIONS, FINISHES AND OPTIONS ARE TO BE APPROVED AND COORDINATED WITH THE ARCHITECT PRIOR TO ORDERING THE FIXTURES. FIXTURES SHOWN ON ARCHITECTURAL PLANS OVER—RIDE THOSE SHOWN ON THE ELECTRICAL PLAN. REVIEW BOTH PLANS AND PROVIDE THE LARGER QUANTITY OF EACH TYPE.

EMERGENCY FIXTURE CHEVRONS / ARROWS TO BE SELECTED PER PLANS.

CLARIFICATION IS TO BE OBTAINED, PRIOR TO BID, REGARDING ANY QUESTIONS RELATED TO THE LIGHTING SYSTEM.

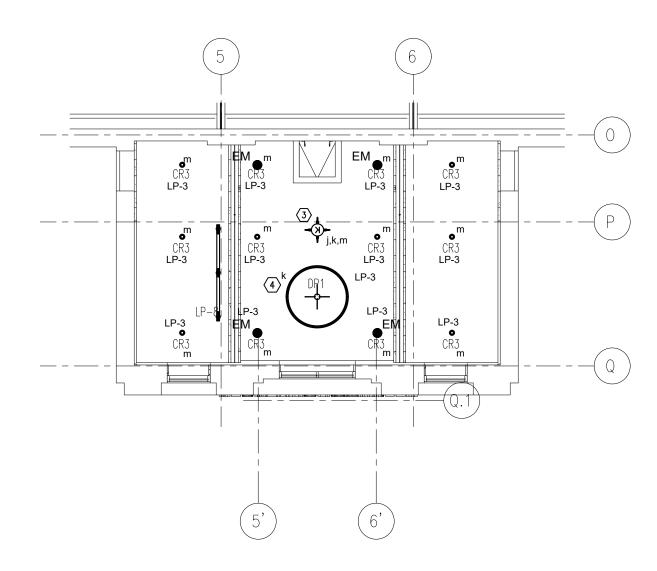
THE E.C. IS TO COMPLETE THE INSTALLATION OF ANY ADDITIONAL LIGHTING CONTROLS SUCH AS OCCUPANCY SENSORS, ETC. THAT ARE INCLUDED WITH THE FIXTURE PACKAGE.

TRACK LIGHTING LENGTHS ARE TO BE ADJUSTED TO THE LENGTH SHOWN ON THE PLANS. ALL ACCESSORIES ARE TO BE INCLUDED TO PROVIDE A COMPLETE SYSTEM. ALL LAMPING (LED) AND FIXTURE WHIPS ARE TO BE INCLUDED.

REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT FIXTURE LOCATIONS - ARCHITECTURAL LOCATIONS OVER-RIDE THE LOCATIONS SHOWN ON THE ELECTRICAL PLANS. COORDINATE ALL MOUNTING HARDWARE WITH ARCHITECT'S RCP'S, DETAILS AND ELEVATIONS, PROVIDE MOUNTING FRAMES REQUIRED FOR CEILINGS INSTALLED, GWB, RCP,

ALL FIXTURES ARE TO BE RATED 120 VOLTS.

PROVIDE \$600.00 DOLLAR ALLOWANCE PER LUMINAIRE WHERE NOT SPECIFIED, TBD.



Second Floor Lobby - Part Plan

INTERIOR LIGHT FIXTURI

	•	CP1		CYLINDER PENDANT
	0	CR1		CYLINDER RECESSED
	0	CR2		CYLINDER RECESSED, LENSED, WET LABELED
	0	CR3	0	CYLINDER RECESSED
	0	CS1		CYLINDER SURFACE MOUNT
		DP1		DECORATIVE PENDANT
-		GR-#		GRAZER RECESSED (# INDICATES LENGTH)
	0 0	LP-#		LINEAR PENDANT (# INDICATES LENGTH)
		LR-#		LINEAR RECESSED (# INDICATES LENGTH)
_		LW-#		LINEAR WALL MOUNTED (# INDICATES LENGTH)

EXTERIOR LIGHT FIXTURES:

	ED1	EXTERIOR DOWNLIGHT
	EW1	EXTERIOR WALL SCONCE
묘	EW2	EXTERIOR WALL DOWNLIGHT
	EW3	EXTERIOR WALL PACK

	LIGHTING FIXTURE & LAMP SCHEDULE											
TYPE	MFGR	VOLT	CATALOG No.	WATTS	REMARKS							
EX1	LITHONIA	120V	EDG*/W/1/R/EL USE RECESSED STYLE @CEILI	2.0 NG	*LED EXIT LIGHT EDGE LIT STYLE WITH INTEGRAL BATTERY *SEE PLANS FOR MOUNTING, SINGLE FACE EXIT							
EX2	LITHONIA	120V	EDG*/W/2/RMR/EL USE RECESSED STYLE @CEILI	2.0 NG	*LED EXIT LIGHT EDGE LIT STYLE WITH INTEGRAL BATTERY *SEE PLANS FOR MOUNTING, DOUBLE FACE EXIT							
EM1	LITHONIA	120V	ELM4L/ / /UVOLTLTP/SDRT	6.6	SELF CONTAINED BATTERY UNIT POLYCABRONATE HOUSING, BASEMENT AND 1ST FLOOR BATHROOMS, SMALL AREAS							
WP	LITHONIA	120V	WLTUMR	6.0	SELF CONTAINED BATTERY UNIT POLYCABRONATE HOUSING, WET LOCATION, EXTERIORS							

bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center

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City of Providence

Providence, RI 02903

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

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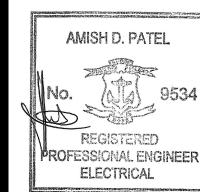
Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886

REVISIONS

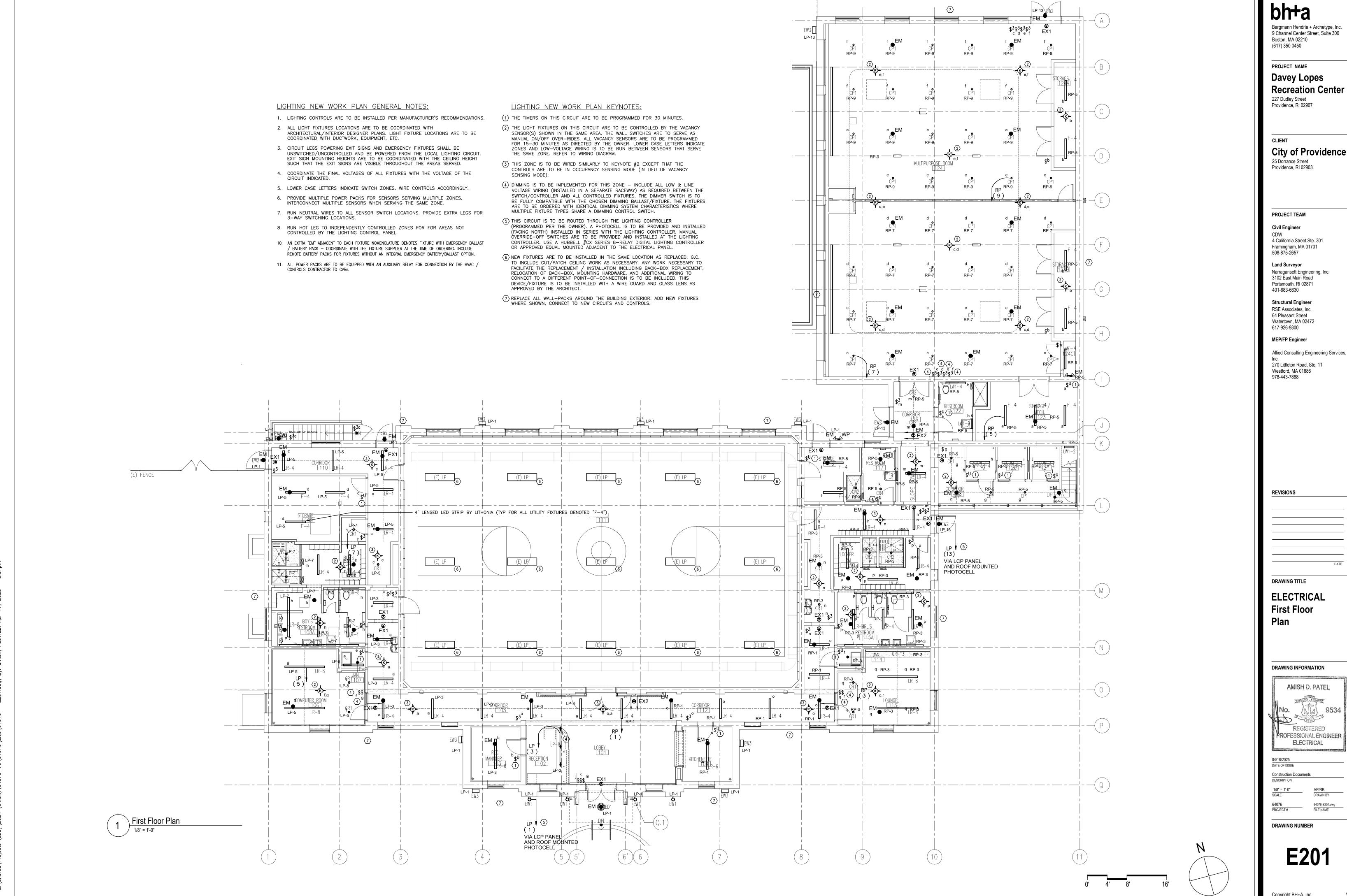
DRAWING TITLE

ELECTRICAL Basement & Second Floor Part Plans

DRAWING INFORMATION



DRAWING NUMBER



Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

City of Providence

Allied Consulting Engineering Services,

E201

bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes **Recreation Center**

227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301

Framingham, MA 01701 508-875-2657 Land Surveyor

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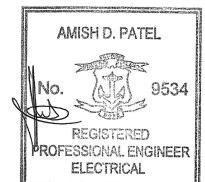
Westford, MA 01886 978-443-7888

Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11

REVISIONS

DRAWING TITLE **ELECTRICAL** One-Line

DRAWING INFORMATION



DRAWING NUMBER

	WIRE	BREA	NER			(VA)	DKE	AKER	WIRE	LOAD DESCRIPTION	CK
LOAD DESCRIPTION	ø	POLE	AMP	PH. "A	" PH. "B"	PH. "C"	AMP	POLE	ø	LOAD DESCRIPTION	NO
EXTERIOR LIGHTING, BLDG MOUNTED	10	1	20	· · · ·	_		20	1	12	RESTROOM OUTLETS	2
RECEPTION AREA LIGHTING	12	1	20		· / ·		20	1	12	HAND DRYER	4
COMPUTER ROOM AREA LIGHTING	12	1	20			· /	20	1	12	ELECTRIC WATER COOLERS	
BOY'S LOCKER AREA LIGHTING	12	1	20	· · ·			20	1	12	UTILITY OUTLETS	1
LIGHTING, BASEMENT	12	1	20		· / ·		20	1	12	SECURITY DOORS, ELECT STRIKES CR'S	1
ROOF, RECEPT, LIGHTS	12	1	20			· /	20	1	12	CORRIDOR OUTLETS	1
EXTERIOR LIGHTING, BLDG MOUNTED	10	1	20	·			20	1	12	ELECTRIC WATER COOLERS	1
BDA PANEL, BSMT ELECT RM	12	1	20		· /		20	1	12	LOCKER ROOM OUTLETS	1
AC-1 (2)1/4HP, LOBBY		2	20			· /	20	1	12	DSF-111 (HP) GYM	
-	-	_	_	· · ·			20	1	12	DSF-111 (HP) GYM	2
(2)FCU'S (3.0AMPS ea.)		2	20		· / ·		20	1	12	DSF-111 (HP) GYM	2
-	_	ı	-			· /	20	1	12	DSF-111 (HP) GYM	2
(2)FCU'S (3.0AMPS ea.)		2	20	· · ·	_		20	1	12	DSF-111 (HP) GYM	2
-	_	-	-		· · /		20	1	12	DSF-111 (HP) GYM	2
EWH-109 (1.5KW)	12	1	20			·	30	2	10	EUH-B01 (5.0KW) BSMT	,
EWH-110 (1.5KW)	12	1	20				_	I	-	-	,
SPARE		1	20		· · /		20	1	•	SPARE	;
RECEPT, COMP RM 106	12	1	20			· /	20	1	12	EF-1 (WATTS) BSMT	
SPARE		1	20	· · ·			20	1	12	RECEPT, (3) COMP RM WIREMOLD	;
PRINTER, RECEPTION DESK	12	1	20				20	1	12	RECEPT, (2) COMP RM WIREMOLD	4
RECEPT, (4) RECEPTION DESK	12	1	20			<u></u>	20	1		SPARE	4
	RECEPTION AREA LIGHTING COMPUTER ROOM AREA LIGHTING BOY'S LOCKER AREA LIGHTING LIGHTING, BASEMENT ROOF, RECEPT, LIGHTS EXTERIOR LIGHTING, BLDG MOUNTED BDA PANEL, BSMT ELECT RM AC-1 (2)1/4HP, LOBBY - (2)FCU'S (3.0AMPS ea.) - EWH-109 (1.5KW) EWH-110 (1.5KW) SPARE RECEPT, COMP RM 106 SPARE PRINTER, RECEPTION DESK	RECEPTION AREA LIGHTING 12 COMPUTER ROOM AREA LIGHTING 12 BOY'S LOCKER AREA LIGHTING 12 LIGHTING, BASEMENT 12 ROOF, RECEPT, LIGHTS 12 EXTERIOR LIGHTING, BLDG MOUNTED 10 BDA PANEL, BSMT ELECT RM 12 AC-1 (2)1/4HP, LOBBY - - - (2)FCU'S (3.0AMPS ea.) - - - EWH-109 (1.5KW) 12 EWH-110 (1.5KW) 12 SPARE - RECEPT, COMP RM 106 12 SPARE - PRINTER, RECEPTION DESK 12	RECEPTION AREA LIGHTING 12 1 COMPUTER ROOM AREA LIGHTING 12 1 BOY'S LOCKER AREA LIGHTING 12 1 LIGHTING, BASEMENT 12 1 ROOF, RECEPT, LIGHTS 12 1 EXTERIOR LIGHTING, BLDG MOUNTED 10 1 BDA PANEL, BSMT ELECT RM 12 1 AC-1 (2)1/4HP, LOBBY - 2 (2)FCU'S (3.0AMPS ea.) - 2 (2)FCU'S (3.0AMPS ea.) 12 1 EWH-109 (1.5KW) 12 1 EWH-110 (1.5KW) 12 1 SPARE 1 1 RECEPT, COMP RM 106 12 1 SPARE 1 1 PRINTER, RECEPTION DESK 12 1	RECEPTION AREA LIGHTING 12 1 20 COMPUTER ROOM AREA LIGHTING 12 1 20 BOY'S LOCKER AREA LIGHTING 12 1 20 LIGHTING, BASEMENT 12 1 20 ROOF, RECEPT, LIGHTS 12 1 20 EXTERIOR LIGHTING, BLDG MOUNTED 10 1 20 BDA PANEL, BSMT ELECT RM 12 1 20 AC-1 (2)1/4HP, LOBBY - 2 20 (2)FCU'S (3.0AMPS ea.) - 2 20 - (2)FCU'S (3.0AMPS ea.) - 2 20 - EWH-109 (1.5KW) 12 1 20 EWH-110 (1.5KW) 12 1 20 SPARE - 1 20 SPARE - 1 20 PRINTER, RECEPTION DESK 12 1 20	RECEPTION AREA LIGHTING	RECEPTION AREA LIGHTING	RECEPTION AREA LIGHTING 12	RECEPTION AREA LIGHTING 12 1 20 20 COMPUTER ROOM AREA LIGHTING 12 1 20 20 BOY'S LOCKER AREA LIGHTING 12 1 20 20 LIGHTING, BASEMENT 12 1 20 20 ROOF, RECEPT, LIGHTS 12 1 20 20 EXTERIOR LIGHTING, BLDG MOUNTED 10 1 20 20 BDA PANEL, BSMT ELECT RM 12 1 20 20 AC-1 (2)1/4HP, LOBBY 2 20 20 (2)FCU'S (3.0AMPS ea.) 2 20 20 (2)FCU'S (3.0AMPS ea.) 2 20 20 EWH-109 (1.5kW) 12 1 20 20 EWH-110 (1.5kW) 12 1 20 30 EWH-110 (1.5kW) 12 1 20 30 FRECEPT, COMP RM 106 12 1 20 20 PRINTER, RECEPTION DESK 12 1 20 20 PRINTER, RECEPTION DESK 12 1 20 20	RECEPTION AREA LIGHTING 12 1 20	RECEPTION AREA LIGHTING 12 1 20 20 1 12 COMPUTER ROOM AREA LIGHTING 12 1 20 20 1 12 BOY'S LOCKER AREA LIGHTING 12 1 20 20 1 12 LIGHTING, BASEMENT 12 1 20 20 1 12 ROOF, RECEPT, LIGHTS 12 1 20 20 1 12 EXTERIOR LIGHTING, BLDG MOUNTED 10 1 20 20 1 12 BDA PANEL, BSMT ELECT RM 12 1 20 20 1 12 BDA PANEL, BSMT ELECT RM 12 1 20 20 1 12 AC-1 (2)1/4HP, LOBBY 2 20 20 1 12 20 1 12 (2)FCU'S (3.0AMPS ea.) 2 20 20 20 1 12 (2)FCU'S (3.0AMPS ea.) 2 20 20 20 1 12 EWH-110 (1.5KW) 12 1 20 20 1 12 EWH-110 (1.5KW) 12 1 20 20 1 12 SPARE 1 1 20 20 1 12 PRINTER, RECEPTION DESK 12 1 20 20 1 12 PRINTER, RECEPTION DESK 12 1 20 20 1 12 PRINTER, RECEPTION DESK 12 1 20 20 1 12 PRINTER, RECEPTION DESK 12 1 20 20 1 12 PRINTER, RECEPTION DESK 12 1 20 20 1 12	RECEPTION AREA LIGHTING

PP	NEL "RP"			VOLTA REMAR		BY120 VOLT) AMP MAIN LUGS ONLY; SURFACE MOUI TING = 22,000 AMPS SYM.	NIED
CKT	LOAD DESCRIPTION	WIRE	BREA	KER	CON	N. LOAD (F	(VA)	BRE	AKER	WIRE	LOAD DESCRIPTION	Ck
NO.	LUAD DESCRIPTION	ø	POLE	AMP	PH. "A"	PH. "B"	PH. "C"	AMP	POLE	ø	LOAD DESCRIPTION	N
1	INTERIOR LIGHTING	•	1	20	· · · · ·			20	1	12	RESTROOM OUTLETS	
3	GIRLS LOCKER AREA LIGHTING		1	20		· /		20	1	12	HAND DRYER	
5	INTERIOR LIGHTING		1	20			· · · ·	20	1	12	HAND DRYER	
7	MULTIPURPOSE LIGHTING		1	20	· /			20	1	12	UTILITY OUTLETS	
9	MULTIPURPOSE LIGHTING		1	20		· /		20	1	12	CORRIDOR OUTLETS	
11	SPARE		1	20			· · ·	20	1	12	ELECTRIC WATER COOLERS	
13	ROOF, RECEPT, LIGHTS	12	1	20	· /			20	1	12	ELECTRIC WATER COOLERS	
15	SECURITY DOORS, ELECT STRIKES CR'S	12	1	20		· /		20	1	12	LOCKER ROOM OUTLETS	
17	EBB-117 (0.5KW)	12	1	20			· · ·	20	1	12	LOCKER ROOM HAND DRYER	
19	EWH-116 (1.5KW)	12	1	20	· /			20	1	12	LOUNGE / MEETING OUTLET	
21	EWH-126 (1.5KW)	12	1	20		· _ /		20	1	-	SPARE	
23	EWH-123 (1.5KW)	12	1	20			· · ·	20	1	12	RECEPT, (2) + 32" DISPLAY, ZOOM 1	:
25	EWH-120 (1.5KW)	12	1	20	· /			20	1	12	RECEPT, (2) + 32" DISPLAY, ZOOM 2	
27	(3)FCU'S (3.0AMPS ea.)	12	2	20		· /		20	1	12	RECEPT, (2) + 32" DISPLAY, ZOOM 3	
29	-	-	-	-			· / ·	20	1	12	MOTORIZED PROJECTION SCREEN, GYM	
31	OUTLETS LOUNGE 113	12	1	20				20	1	12	MOTORIZED PROJECTION SCREEN, GYM	
33	SPARE		1	20		· /		20	1	12	CEILING PROJECTOR, GYM	
35	SPARE		1	20			· · ·	20	1	12	CEILING PROJECTOR, GYM	
37	SPARE		1	20	· /			20	1	12	RECEPT, (2) AV RACK	
39	SPARE		1	20		· /		20	1	12	RECEPT, (2) AV RACK	
41	SPARE		1	20			· · ·	20	1		SPARE	
	TOTALS PER	PHA	SE) 1	-
	TOTAL L	_OAD				. kVA				TUE)	

	NEL "LP"				REMAR) AMP MAIN LUGS ONLY; SURFACE MOU TING = 42,000 AMPS SYM.	
CKT NO.	LOAD DESCRIPTION	1	WIRE Ø	BREA POLE		PH.	CONI "A"	N. LOAD (K PH. "B"	VA) PH. "C"		AKER POLE	WIRE ø	LOAD DESCRIPTION	C N
43	HP-106 (55.0AMPS)	ROOF	3	3	90	<u>.</u>				80	3	3	ELECT WATER HEATER WH-1 (24KW)	4
45	_		-	-	-			· / ·		-	-	-	-	4
47	_		-	_	_				·	_	_	-	-	4
49	ERV-106 (3.5AMPS)	ROOF	12	2	15	· · ·			/	80	3	3	ELECT WATER HEATER WH-1 (24KW)	
51	-		-	-	-			· / .		-	-	-	-	
53	ERV-113 (11.3AMPS) ROOF	12	2	20				· /	_	_	-	-	
55	-		-	ı	ı	· · ·				20	1	12	EP-1 (11.0AMPS) BSMT	
57	SPARE		•	1	20			/ . /		20	1	12	RP-1 (50WATTS) BSMT	
59	SPARE		•	1	20					20	1	•	SPARE	
61	SPARE			1	20	· · ·	_/			20	1		SPARE	
63	SPARE			1	20			/ · /		20	1		SPARE	
65	SPARE			1	20				·	20	1		SPARE	
67	SPARE			1	20	· · ·				20	1		SPARE	
69	SPARE			1	20			· / /		20	1		SPARE	
71	(3)FCU'S (3.0AMPS	ea.)		2	20				· /	20	1		SPARE	
73	_		-	-	-					20	1		SPARE	
75	FCU-124A (7.7AMPS)	12	2	20			· / .		20	1		SPARE	
77	_		-	-	_				· / ·	20	1		SPARE	Ī
79	FCU-124B (7.7AMPS	;)	12	2	20	<u>·</u>				20	1	•	SPARE	
81	_		-	-	-			· / /		20	1	•	SPARE	
83	(2)MOTORIZED DAMPE	ERS, BSMT	12	1	20				·/	20	1		SPARE	Ī
		TOTALS PER		SE .				. kVA	•			TUF	3 2	_

NEL "RP" LOAD DESCRIPTION HP-111 (45.0AMPS) - HP-111 (45.0AMPS) -		### WIRE ### ### ### ### ### ### #### #### ##	BREA POLE 3 -			NN. LOAD (F		BRE		WIRE ø	TING = 22,000 AMPS SYM. LOAD DESCRIPTION	CK NO
HP-111 (45.0AMPS) - - HP-111 (45.0AMPS)		4	3 -	70 -		PH. "B"	PH. "C"			·	LUAD DESCRIPTION	NO
- - HP-111 (45.0AMPS)		-	_	_	· ·	<u>/</u>		90	7	-	1	
- HP-111 (45.0AMPS) -	ROOF	_				·/		I	ا	3	HP-124 (55.0AMPS) ROOF	4
HP-111 (45.0AMPS)	ROOF		-	_				_	_	-	_	4
_	ROOF	4					· /	-	_	-	-	4
			3	70	· · ·			90	3	3	HP-124 (55.0AMPS) ROOF	5
_		-	_	_		· /		_	_	-	-	5
		_	_	_			· /	_	-	-	-	5
HP-113 (55.0AMPS)	ROOF	3	3	90	· · · ·			20	1	•	SPARE	5
-		_	_	ı		· / .		20	1	•	SPARE	5
_		_	_	_			· /	20	1	•	SPARE	6
ERV-124 (17.0AMPS) 2ND FLOOR	12	2	20	· · · ·			20	1		SPARE	6
_		_	_	_		· / ·		20	1	•	SPARE	6
SPARE			1	20			· /	20	1	•	SPARE	6
SPARE			1	20	· · ·			20	1		SPARE	6
SPARE			1	20		· / .		20	1	*	RESERVED FOR OLD "OMD" CKTS	7
SPARE			1	20			· / /	20	1	*	RESERVED FOR OLD "OMD" CKTS	-
SPARE			1	20				20	1	*	RESERVED FOR OLD "OMD" CKTS	7
SPARE			1	20		· / .		20	1	*	RESERVED FOR OLD "OMD" CKTS	7
SPARE			1	20			· / .	20	1	*	RESERVED FOR OLD "OMD" CKTS	-
FCU-113 (0.5AMPS)	2ND FLOOR	12	2	15	· · ·			20	1	*	RESERVED FOR OLD "OMD" CKTS	8
_		-	_	_		· / ·		20	1	*	RESERVED FOR OLD "OMD" CKTS	8
	-HP) 2ND FL	12	1	20			·	20	1	*	RESERVED FOR OLD "OMD" CKTS	8
AL-124 DAMPER (-											·	
S	PARE PARE PARE PARE PARE PARE CU-113 (0.5AMPS)	PARE PARE PARE PARE PARE CU-113 (0.5AMPS) 2ND FLOOR	PARE	PARE : 1 PARE :	PARE : 1 20 PARE :	PARE : 1 20	PARE : 1 20	PARE : 1 20	PARE : 1 20 : 20 PARE : 20 PARE : 1 20 : 20 PARE : 20	PARE : 1 20 . 20 1 PARE : 20 1 PARE : 20 1 PARE : 20 1	PARE : 1 20	PARE : 1 20 : 20 1 * RESERVED FOR OLD "OMD" CKTS PARE : 1 20 : 20 1 * RESERVED FOR OLD "OMD" CKTS PARE : 1 20 : 20 1 * RESERVED FOR OLD "OMD" CKTS PARE : 1 20 : 20 1 * RESERVED FOR OLD "OMD" CKTS PARE : 1 20 : 20 1 * RESERVED FOR OLD "OMD" CKTS PARE : 1 20 : 20 1 * RESERVED FOR OLD "OMD" CKTS PARE : 1 20 : 20 1 * RESERVED FOR OLD "OMD" CKTS CU-113 (0.5AMPS) 2ND FLOOR : 12 2 15 : 20 1 * RESERVED FOR OLD "OMD" CKTS : 20 1 * RESERVED FOR OLD "OMD" CKTS

* ADJUST BREAKERS / FEEDS TO MATCH OLD CKTS AS REQUIRED

CKT		CHEDULE	WIRE		REMAR			(VA)			WIRE	TING = 65,000 AMPS SYM.	С
NO.	LOAD DESCRIPTION	_	Ø	POLE		PH. "A"	PH. "B"	PH. "C"		POLE		LOAD DESCRIPTION	1
1	AHU-111 (104.10AMF	PS) ROOF	1	3	110	<u>'</u> .			200	3	3/0	EXISTING PANEL "MDP" (EXISTING)	
-	" "						· _ /					29 39	T
-	" "							· /				n n	T
3	NEW PANEL "RP"		600	3	400	· /			400	3	600	NEW PANEL "LP"	
-	n n		•	•	•		· /		•	•	•	n n	
-	n n		•	٠	•			· /		•	•	n n	
5	TVSS		10	3	30	· _ /			600	3		SPARE	
-	" "		•				· /					n n	T
-	» »							· _ /				n n	
		TOTALS PER	PHAS	SE			•					·	, /T
	Γ	TOTAL LO	OAD				. kVA		Ì			W	V/T

Telecommunications Responsibility Matrix	Responsibility							
System	General Contractor	Electrical Contractor (EC) File Sub Bid	Telecommunications Contractor (TC) File Sub Sub Bid (If Required by Electrical Contractor)	Service Provider	Own			
Structured cabling System	X	Х	Х					
Telecommunications conduit/backbox	Х	X	X					
Structured cabling terminations	Х	X	X					
J Hook Pathways	Х	X	X		T			
Structured Cabling SystemTesting	Х	X	X		1			
Fiber Optic and Copper Backbone cabling	Х	X	X		T			
Fiber Optic and copper backbone terminations	Х	Х	X		T			
Fiber optic and copper backbone testing	Х	Х	X		1			
Plywood backboards and supports for devices	Х				1			
Racks and Cabinets	Х	Х	Х					
Patch cords and adapters	Х	Х	Х		T			
Incoming services cabling and Terminations				Х				
Incoming Services Coonduit and Backbox	Х	Х						
Wireless Access Point procurement					Х			
Wireless Access point Installation	Х	Х	Х					
Network Switches and Electronic equipment Procurement					Х			
Network Switches and Electronic equipment Installation					Х			
Paging System Conduit and Back box	Х	Х						
Paging system cabling	Х	Х	Х					
Paging system speakers, amplifiers, zone modules, FX modules	X	Х	Х		1			
Paging System progamming and coordination	Х	Х	Х		1			
Power in telecommunications rooms	Х	Х			1			
UPS	Х	Х	Х					

Security Responsibility Matrix	Responsibility							
System	General Contractor	Electrical Contractor (EC) File Sub Bid	Telecommunications Contractor (TC) File Sub Sub Bid (If Required by Electrical Contractor)	Hardware Contractor	Owne			
Conduit and Back box	Х	Х						
Security Access Control Cabling System	Х	X						
Security Video Surveillance Camera Cabling	Х	X	X					
Security J Hook Pathways	X	X						
Security Devices at Doors (card readers, door contacts, Request to exit devices)					Х			
Security electronic Locks (Electric strike, Mortice Locks, Magnetic locks, exit devices)				Х				
Security Back Boards	Х							
Security access control panels					Х			
Security power supplies					Х			
Security video surveillance cameras					Х			
Security coordination and programming					Х			
Security Intrusion Detection System conduit and back box	Х	X						
Security Intrusion Detection System Cabling	Х	X						
Security Intusion Dection System devices								
Motion sensors, door contacts,					Х			
Security Intrusion Dection System panels					Х			
Security Intrusion Detection system alarm circuits					Х			

Audio Visual Responsibility Matrix	Responsibility		
System	General Contractor	Electrical Contractor (EC) File Sub Bid	Audio Visual Contractor (AVC) File Sub Sub Bid (If Required by Electrical Contractor)
Conduit and Back box	X	X	
Audio Visual Cabling System	X	X	
Audio Visual electronic equipment in AV rooms	X	X	X
Audio Visual displays and projectors			
(Including Mounting hardware)	X	X	X
Audio Visual devices in rooms	X	X	X
Audio Visual Assisted Listening Inductive Loop cabling	X	X	X
Audio Visual Assisted Listening inductive Loop Equipment	X	X	X
Audio Visual Assisted Listening inductive Loop Programming	X	X	X
Audio Visual FM+ Cabling	X	X	
Audio Visual FM+ Equipment	X	X	X
Audio Visual coordination and programming	Х	X	X
Audio Visual Projection Screens	Х	X	X
Audio Visual racks and cabinets	Х	X	X
Audio Visual Power in AV rooms	Х	X	
Audio Visual Plywood Back boards	X		

bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center

227 Dudley Street Providence, RI 02907

City of Providence
25 Dorrance Street
Providence, RI 02903

PROJECT TEAM

Civil Engineer CDW 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871

401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer

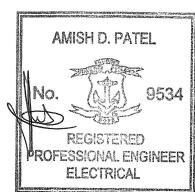
Allied Consulting Engineering Services, 270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

REVISIONS

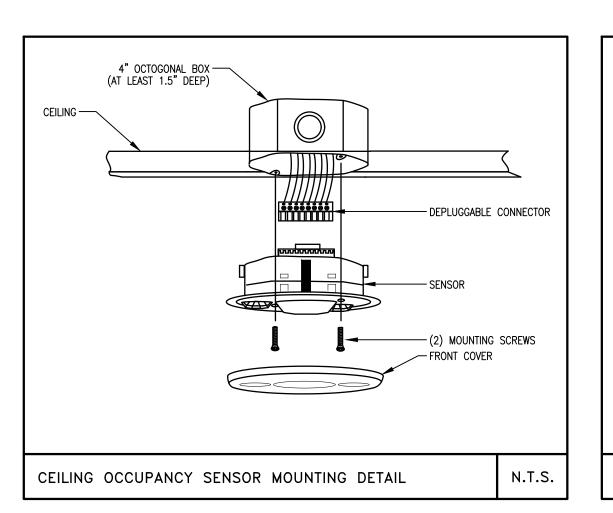
DRAWING TITLE

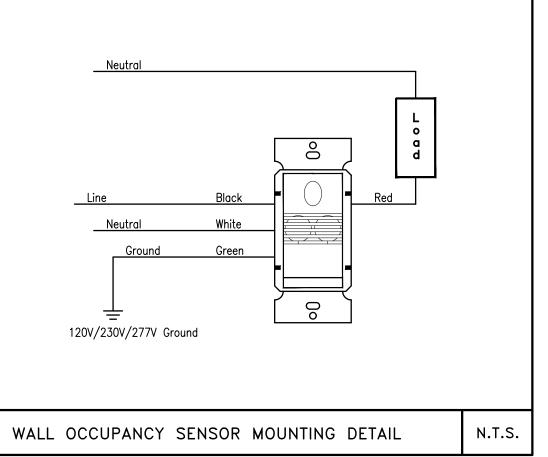
ELECTRICAL Panel Schedules

DRAWING INFORMATION



DRAWING NUMBER





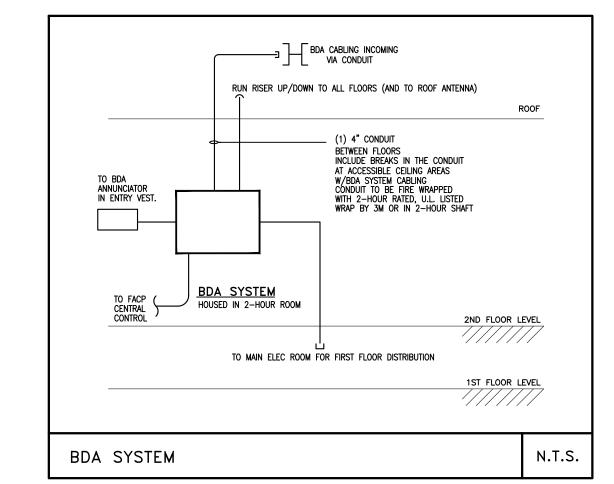
THE FIRE ALARM / ELECTRICAL CONTRACTORS SHALL WORK WITH THE FIRE PROTECTION CONTRACTOR TO PROVIDE AN IMPAIRMENT PLAN THAT IS APPROVED BY THE LOCAL AHJ PRIOR TO COMMENCEMENT OF WORK.

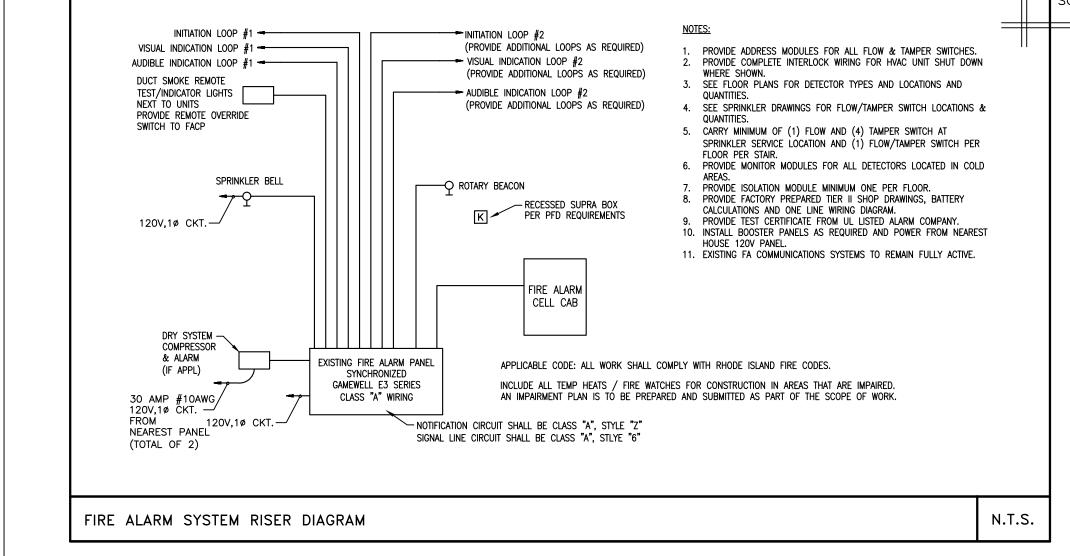
THE EXISTING FIRE ALARM SYSTEM WIRING SHALL BE REUSED WHERE POSSIBLE AND BE ADDED TO FOR NEW WORK — PROVIDE NEW FIRE ALARM TERMINAL CABINETS FOR CONNECTION OF NEW DEVICES. ALL REQUIRED SYSTEM SHUTDOWNS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION. FIRE WATCHES AS COORDINATED WITH THE PHASING AND SCHEDULE SHALL BE INCLUDED.

REFER TO A/V SHEETS FOR SCOPE AND RESPONSIBILITY OF A/V SYSTEM WIRING AND CONDUIT DETAILS SCOPE SHOWN ON A/V DRAWINGS TO BE INCLUDED.

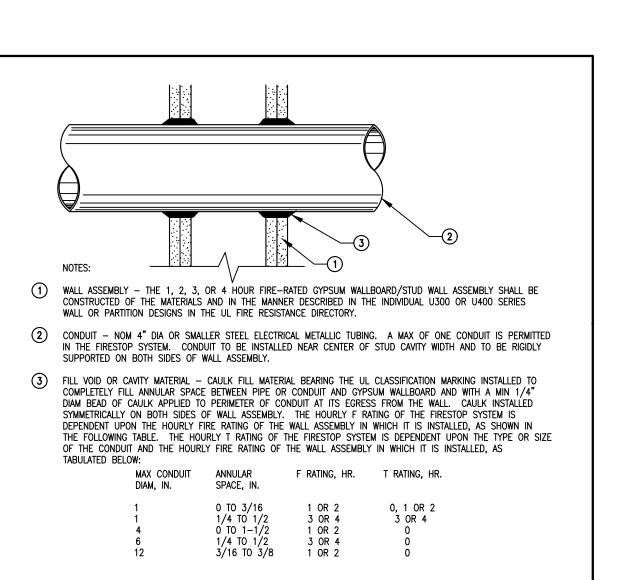
REFER TO TEL-DATA SHEETS FOR SCOPE AND RESPONSIBILITY OF TEL-DATA SYSTEM WIRING AND CONDUIT DETAILS SCOPE SHOWN ON TEL-DATA DRAWINGS TO BE INCLUDED.

REFER TO THE SECURITY SHEETS FOR SECURITY SYSTEM WIRING AND CONDUIT DETAILS SCOPE SHOWN ON SECURITY PLANS TO BE INCLUDED.

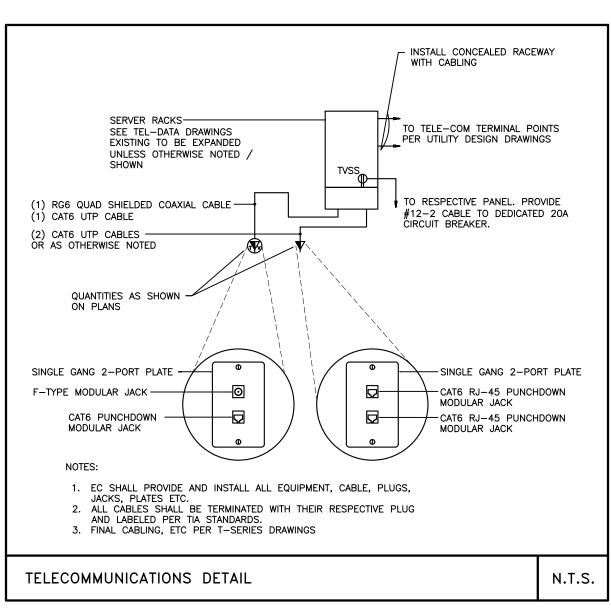


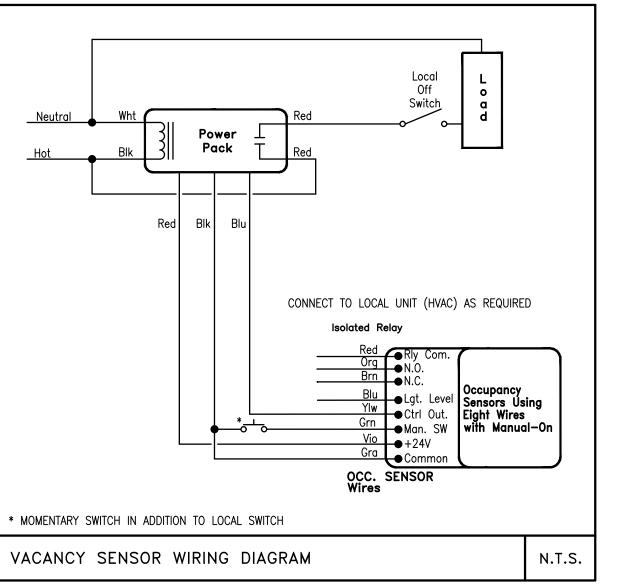


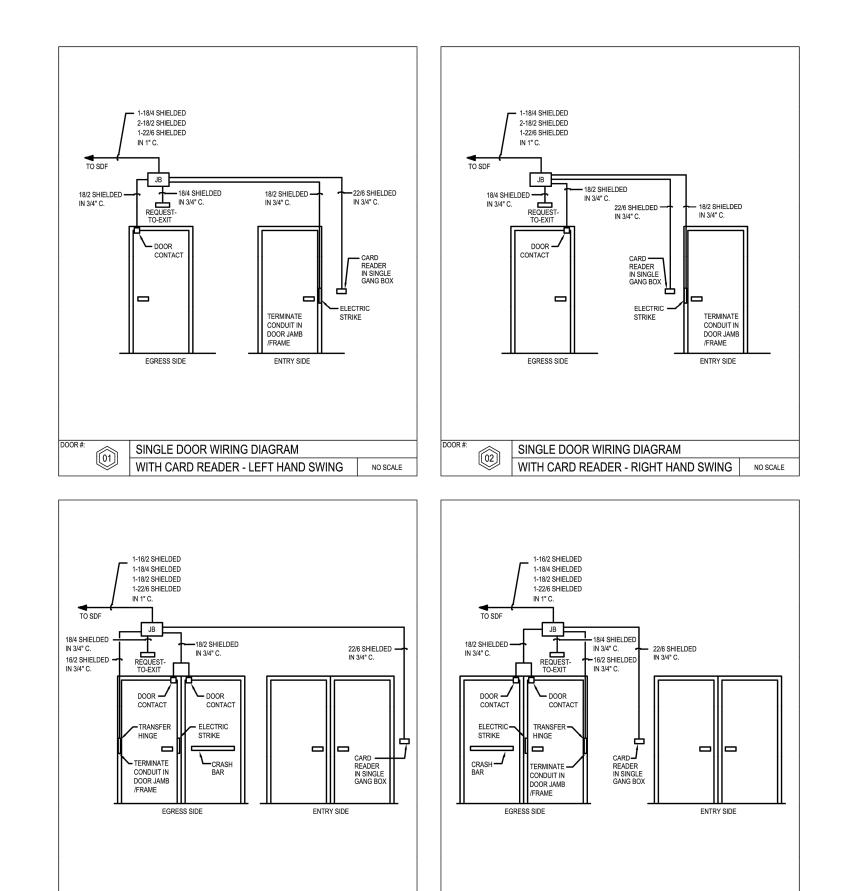
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CONDUIT PENETRATION DETAIL





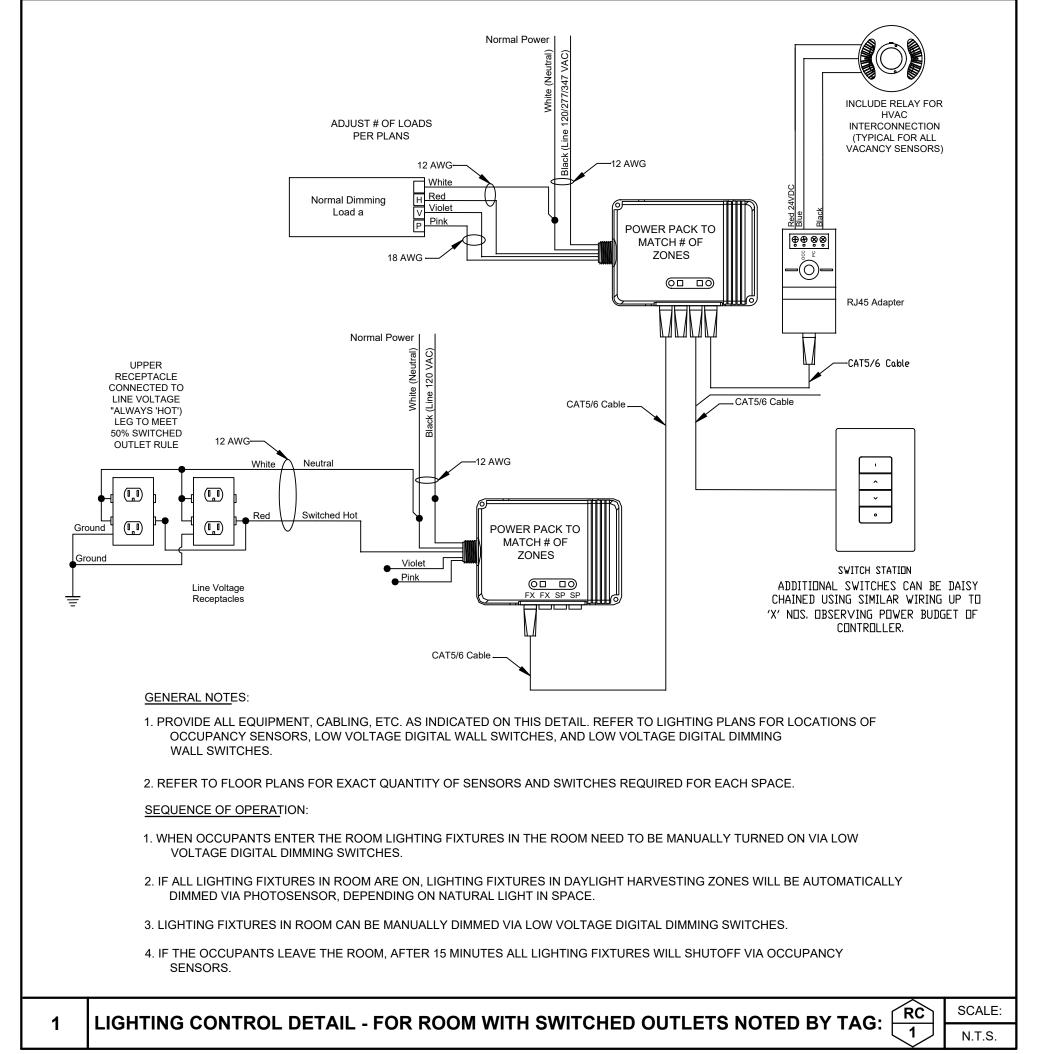


DOUBLE DOOR WIRING DIAGRAM

WITH CARD READER - RIGHT HAND SWING NO SCALE

DOUBLE DOOR WIRING DIAGRAM

WITH CARD READER - LEFT HAND SWING NO SCALE





Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

227 Dudley Street Providence, RI 02907

Davey Lopes
Recreation Center

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25 Dorrance Street Providence, RI 02903

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Civil Engineer CDW 4 California Street Ste. 301 Framingham, MA 01701

508-875-2657

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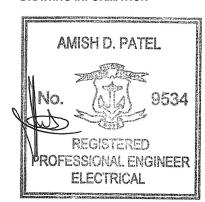
Allied Consulting Engineering Services, Inc. 270 Littleton Road, Ste. 11

REVISIONS

DRAWING TITLE

ELECTRICAL Details

DRAWING INFORMATION



04/18/2025

DATE OF ISSUE

Construction Documents

DESCRIPTION

1/8" = 1'-0" AP/RB
SCALE DRAWN BY

64076 64076-E300.dwg

DRAWING NUMBER

E500

TECHNOLOGY LEGEND AND ABBREVIATIONS

	CENTERLINE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
ATR	ALL THREADED ROD
AWG	AMERICAN WIRE GAUGE
BFBI	BUILDER FURNISHED - BUILDER INSTALLED
BMS	BUILDING MANAGEMENT SYSTEM
С	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CFD	CEMENT-FIBER DUCT
CL	CLOSET
CLG	CEILING
COAX	COAXIAL CABLE
СТ	CABLE TRAY
CTR	CENTER
DIA	DIAMETER
DGP	DATA GATHERING PANEL
DWG	DRAWING SUTPLATOR
EC	ELECTRICAL CONTRACTOR
ELEV EMI	ELEVATOR ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EQPT	EQUIPMENT
FBO	FURNISHED BY OTHERS
FC	FINISHED CEILING
FCC	FIRE CONTROL CENTER
FR	FIRE RATED
FRP	FIBERGLASS REINFORCED PLASTIC
GFGI	GOVERNMENT FURNISHED - GOVERNMENT INSTALLED
GC	GENERAL CONTRACTOR
GND	GROUND
HVAC	HEATING VENTILATION & AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT - SEE NEC ARTICLE 342
JB	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LEC	LOCAL EXCHANGE CARRIER
MDF	MAIN DISTRIBUTION FRAME
MM	MULTI-MODE (OPTICAL FIBER)
MTD	MOUNTED
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE - NFPA 70
NESC	NATIONAL ELECTRICAL SAFETY CODE
NIC	NOT IN CONTRACT
NTS OSP	NOT TO SCALE OUTSIDE PANT
PNL	PANEL PANT
PR	PAIRS-NUMBER OF PAIRS IN COPPER CABLE
PVC	POLYVINYL CHLORIDE
RM	ROOM
RMC	RIGID METAL CONDUIT - SEE NEC ARTICLE 344
RU	RACK UNIT; UNIT OF PATCH PANEL HEIGHT EQUAL TO 1.75 INCH
SCC	SECURITY CONTROL CENTER
SDF	SECURITY DISTRIBUTION FRAME
SM	SINGLE-MODE (OPTICAL FIBER)
STP	SHIELDED TWISTED PAIR
TBD	TO BE DETERMINED
TC	TELECOMMUNICATIONS CONTRACTOR
TEL	TELECOMMUNICATION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
WP	WEATHERPROOF

TELECOM. NOTES

- THE LOCATIONS AND ELEVATIONS OF TECHNOLOGY DEVICES SHOWN ON THESE DRAWINGS ARE SCHEMATIC UNLESS ACTUAL DIMENSIONS ARE SHOWN ON THE DRAWINGS. REFER TO THE ARCHITECTURAL PLANS AND OBTAIN THE APPROVAL OF THE ARCHITECT FOR THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL DEVICES.
- CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS.

ABOVE COUNTER DEVICES SHALL BE MOUNTED 8" ABOVE COUNTER OR A MAXIMUM

- OF 44" AFF (TO TOP OF DEVICE). PROVIDE SUPPORTS AND ANCHORING FOR PIPING, CONDUIT, DUCTS, EQUIPMENT, AND OTHER NON-STRUCTURAL ELEMENTS. SEE SPECIFICATIONS FOR ADDITIONAL
- PROVIDE SOUND PUTTY PADS IN ALL BACK BOXES.

REQUIREMENTS.

- FIRESTOPPING: ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS AND CONDUIT/SLEEVE OPENINGS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES, HOT GASSES AND SMOKE WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR APPLICABLE CODES.
- ALL COMMUNICATIONS CONDUIT, CABLE TRAYS, LADDER RACKS AND EQUIPMENT RACKS SHALL BE BONDED TO BUILDING GROUND SYSTEM PER NEC 250 AND
- 8. LABEL ALL CLOSETS, RACKS, FRAMES, CABINETS, TERMINATION BLOCKS, CABLES, TERMINATIONS, RACEWAYS, ETC. IN ACCORDANCE WITH ANSI/TIA-606-C.
- ALL COMMUNICATIONS RACEWAYS AND PATHWAYS SHALL BE INSTALLED TO MINIMIZE UNNECESSARY CABLE LENGTHS AND MAINTAIN INDUSTRY STANDARD LENGTH LIMITATIONS FOR HORIZONTAL CABLE DISTRIBUTION (E.G CAT.6). BASIC LINK CABLE LENGTH SHALL NOT EXCEED 295 FT (90M) FOR UTP CABLE, 150 FT (45M) FOR SERIES-6 COAXIAL CABLE.
- 10. ALL COMMUNICATIONS CABLE SHALL BE PLENUM RATED (CMP), RISER RATED (CMR) AND UNDERGROUND RATED (WATERBLOCK) ACCORDING TO USE AND ENVIRONMENTAL CONDITIONS.
- 1. PROVIDE PROTECTIVE BUSHINGS ON ALL COMMUNICATIONS CONDUITS AND WHERE CABLING ROUTES THROUGH METAL STUDS.
- 12. ALL NON-ARMORED FIBER OPTIC CABLE SHALL BE INSTALLED IN APPROVED INNERDUCT.
- 13. ALWAYS INSTALL LOW-VOLTAGE CABLES IN CONDUITS, CABLE TRAYS, WIREWAYS OR OTHER APPROVED CABLE MANAGEMENT DEVICES OR SYSTEMS. NEVER INSTALL CABLES IN SUCH A MANNER THAT THEY ARE SUPPORTED BY CEILING SYSTEMS (CEILING TILE OR GRID, GYPSUM BOARD, LATH & PLASTER), HVAC DUCTS OR PIPES, LIGHTING FIXTURES, ELECTRICAL CONDUITS OR CABLES, PLUMBING/FIRE PROTECTION PIPES, OR ANY OTHER DEVICES NOT INTENDED FOR THE SUPPORT OF LOW-VOLTAGE CABLING.
- 14. EXPOSED LOW-VOLTAGE CABLES SHALL NOT BE PAINTED. ANY PAINTED CABLES SHALL BE REMOVED AND REPLACED WITH NEW CABLES.
- 15. PROVIDE WEATHERPROOF, IN-USE COVER FOR EXTERIOR DATA DEVICES. 16. RACEWAYS AND CABLE SHALL BE RUN CONCEALED IN FINISHED SPACES UNLESS OTHERWISE INDICATED.
- 17. REUSABLE VELCRO TIES SHALL BE USED TO BUNDLE OR MANAGE CABLES. PLASTIC ZIP TIES ARE NOT APPROVED FOR USE.
- 18. SIZE AND ORIENTATION OF ALL TELECOM PULL-BOXES SHALL MEET OR EXCEED THE BICSI TDMM REQUIREMENTS.
- 19. ALL LOW-VOLTAGE CONDUIT LARGER THAN 2" SHALL HAVE A MINIMUM BEND RADIUS OF 10:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS. ALL LOW-VOLTAGE CONDUIT 2" AND SMALLER SHALL HAVE A MINIMUM BEND RADIUS OF 6:1 OF THE INSIDE DIAMETER
- 20. ALL CONDUITS AND MICRODUCTS SHALL BE INSTALLED WITH PULL-STRINGS.

SYMBOLS LEGEND

	RACEWAY LEGEND
TT	TELECOMMUNICATIONS CONDUIT
UTUT	CONDUITS BELOW GRADE/SLAB OR EMBEDDED IN SLAB
J —— J ——	CABLES ON J-HOOKS
o	CONDUIT UP
•	CONDUIT DOWN
<u> </u>	CONDUIT STUBBED OUT WITH BUSHING
•	CONDUIT CROSS-SECTION
ст	TELECOMMUNICATIONS CABLE TRAY
	TELECOMMUNICATIONS CABLE TRAY

MISCELLANEOUS SYMBOL LEGEND				
#>	SHEET KEYNOTE			
#	REVISION NUMBER			
1 T2.1	CALLOUT NUMBER SHEET NUMBER			
TMGB	TELECOM MAIN GROUNDING BUSBAR			
TGB	TELECOM GROUNDING BUSBAR			

WAP	WIRELESS ACCESS POINT (2) -CAT 6 CABLES
1	WALL MOUNTED DATA 1 LOCATION (1) - CAT 6 CABLE
2	WALL MOUNTED DATA 2 LOCATION (2) - CAT 6 CABLES
3	WALL MOUNTED DATA 3 LOCATION (3) - CAT 6 CABLES
4	WALL MOUNTED DATA 4 LOCATION (4) - CAT 6 CABLES
TV	WALL MOUNTED DATA 2 LOCATION - COORDINATE WITH DISPLAY (2) - CAT 6 CABLES (1) - HDMI CABLE
4	FLOOR MOUNTED DATA 4 LOCATION (4) - CAT 6 CABLES
CAM	WALL MOUNTED DATA 1 LOCATION - FOR SECURITY CAMERA (1) - CAT 6 CABLE
CAM	CEILING MOUNTED DATA 1 LOCATION - FOR SECURITY CAMERA (1) - CAT 6 CABLE
VIC	WALL MOUNTED DATA 1 LOCATION - FOR VIDEO INTERCOM (1) - CAT 6 CABLE
Е	"E" DENOTES EXISTING OUTLET LOCATIONS
i	

LOW VOLTAGE WIRING DEVICE LEGEND

NOTES:

HEIGHTS OF ALL OUTLETS.

- FOR TELECOMMUNICATIONS OUTLETS, PROVIDE BOX WITH CONDUIT FROM BOX TO 3" ABOVE AN ACCESSIBLE CEILING OR INTO THE TELECOM ROOM. INCLUDE PULL STRING AND TERMINATED WITH AN INSULATED BUSHING. BOXES SHALL BE RECESSED. 1"C., 4 11/16" x 2 1/8" BOX WITH 5/8" RAISED SINGLE GANG PLASTER RING. RACO #259 & 843 OR EQUAL.
- FOR TELEPHONE OUTLET, PROVIDE SINGLE GANG BOX AND PLASTER RING BOX WITH 3/4" CONDUIT TERMINATED WITH AN INSULATING BUSHING TO 3" ABOVE AN ACCESSIBLE CEILING OR INTO THE TELECOM ROOM WITH A PULL STRING.
- ALL CONDUITS, BACK BOXES AND PLASTER RINGS WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TELECOMMUNICATIONS CONTRACTOR SHALL COORDINATE AND VERIFY THE OUTLET LOCATIONS BY REFERRING TO THE ARCHITECTURAL DRAWINGS AND DETAILS.

REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING

LEGEND NOTES

THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.

	DRAWING LIST
TC001	TELECOM - LEGEND AND NOTES SHEET
TC101	TELECOM - FIRST FLOOR PLAN
TC200	TELECOM - DETAILS SHEET
TC201	TELECOM - DETAILS SHEET

	DRAWING LIST
TC001	TELECOM - LEGEND AND NOTES SHEET
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TC200	TELECOM - DETAILS SHEET
TC201	TELECOM - DETAILS SHEET

bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Providence, RI 02907

Davey Lopes **Recreation Center**

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

> **Structural Engineer** RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472

617-926-9300 MEP/FP Engineer Allied Consulting Engineering Services,

270 Littleton Road, Ste. 11 Westford, MA 01886 978-443-7888

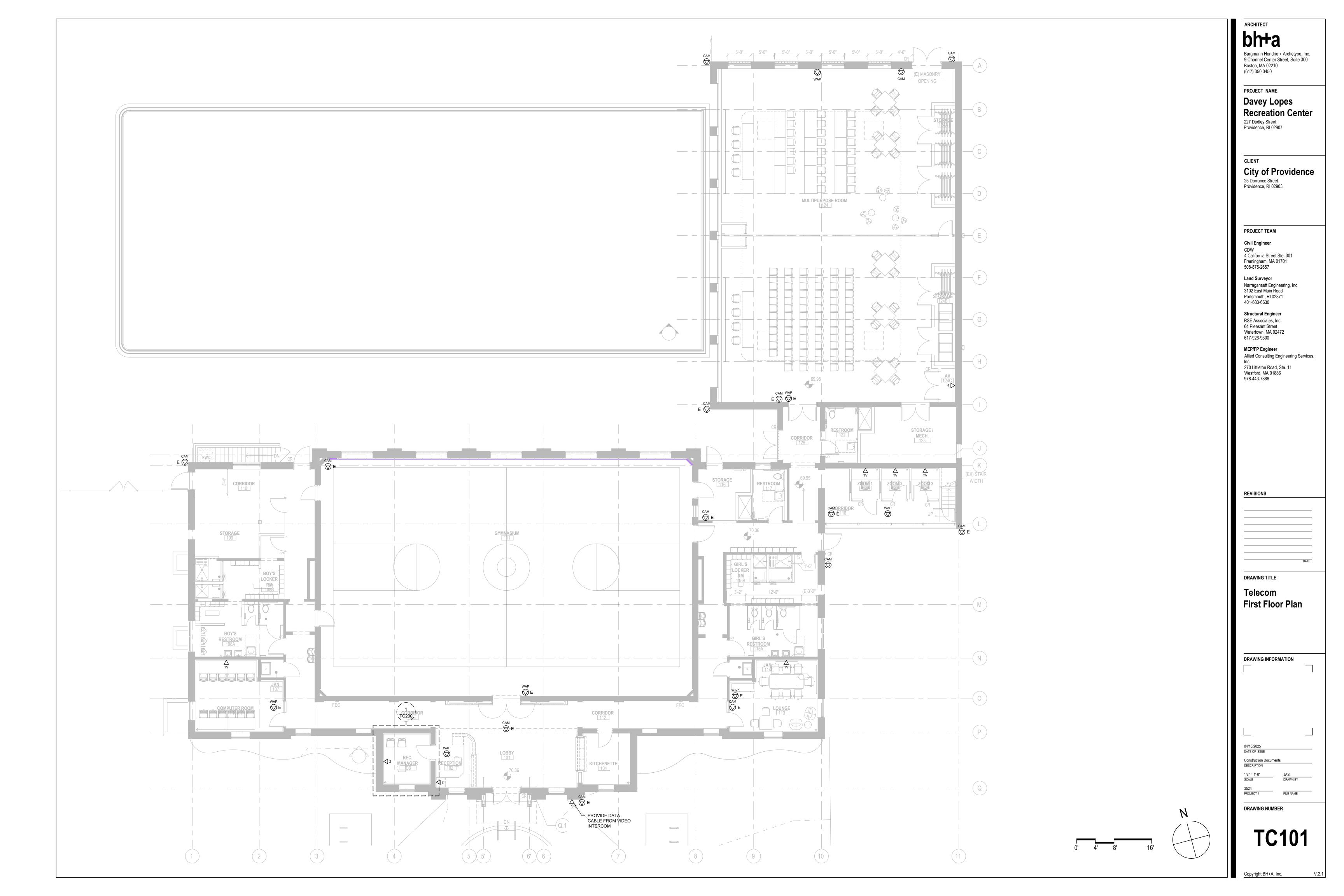
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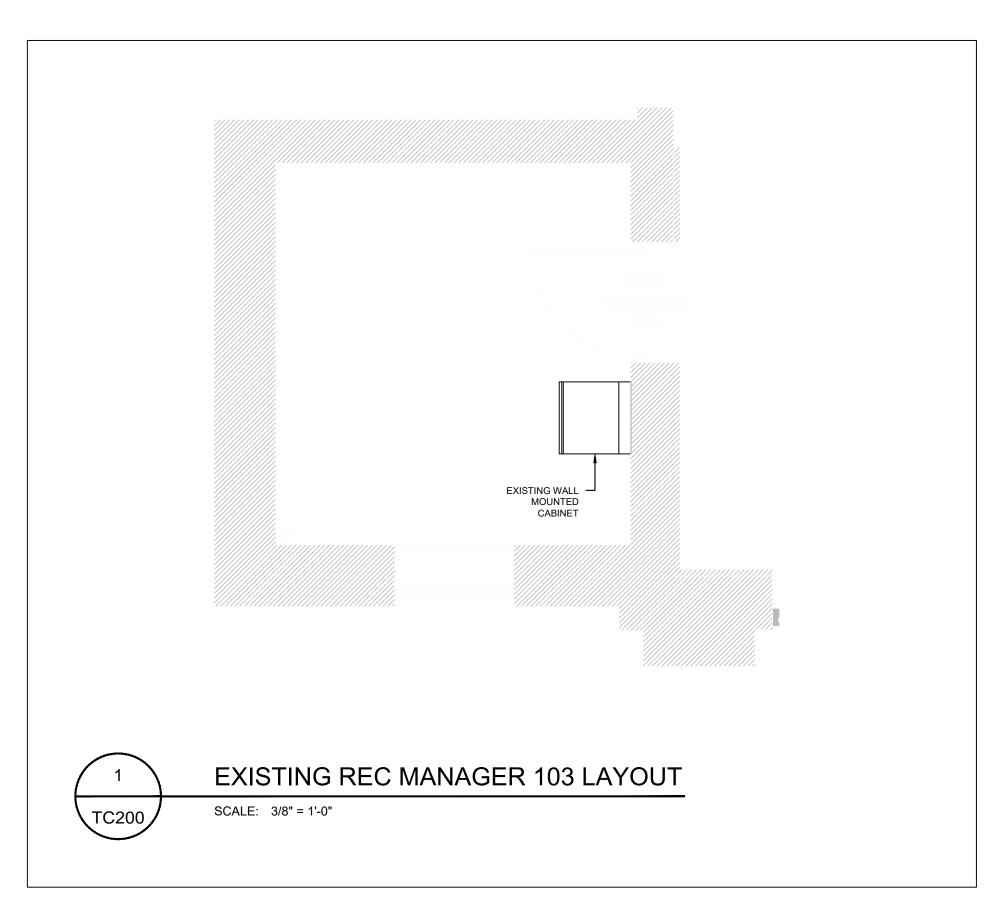
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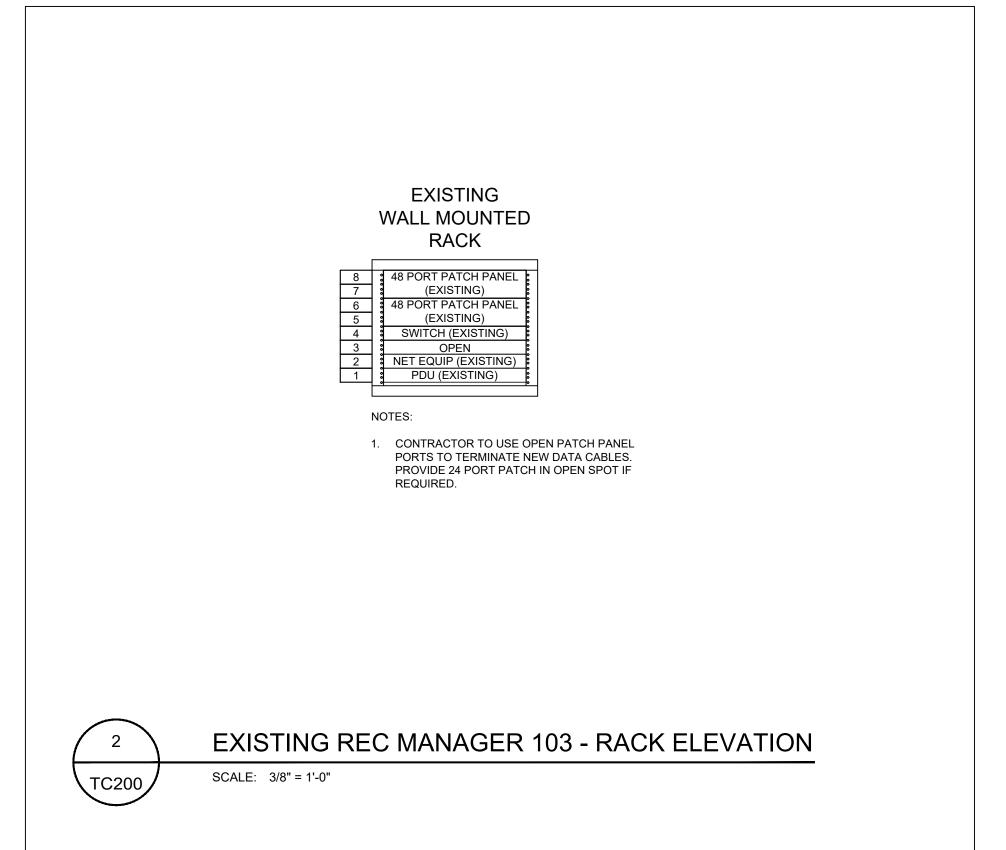
Telecom **Legend and Notes** Sheet

DRAWING INFORMATION

DRAWING NUMBER







bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes Recreation Center 227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer 4 California Street Ste. 301

Framingham, MA 01701 508-875-2657 Land Surveyor

Narragansett Engineering, Inc. 3102 East Main Road Portsmouth, RI 02871 401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

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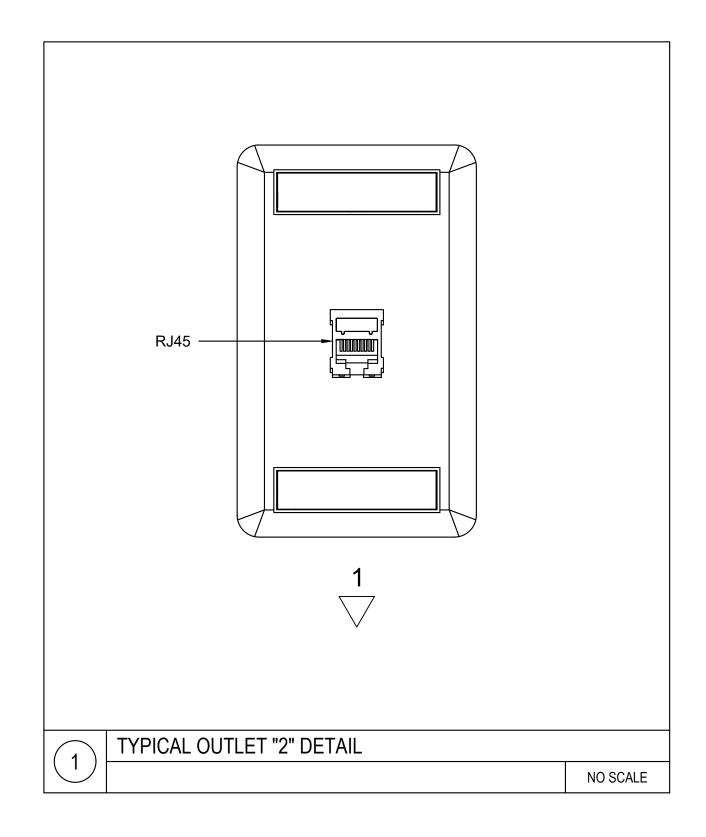
Westford, MA 01886 978-443-7888

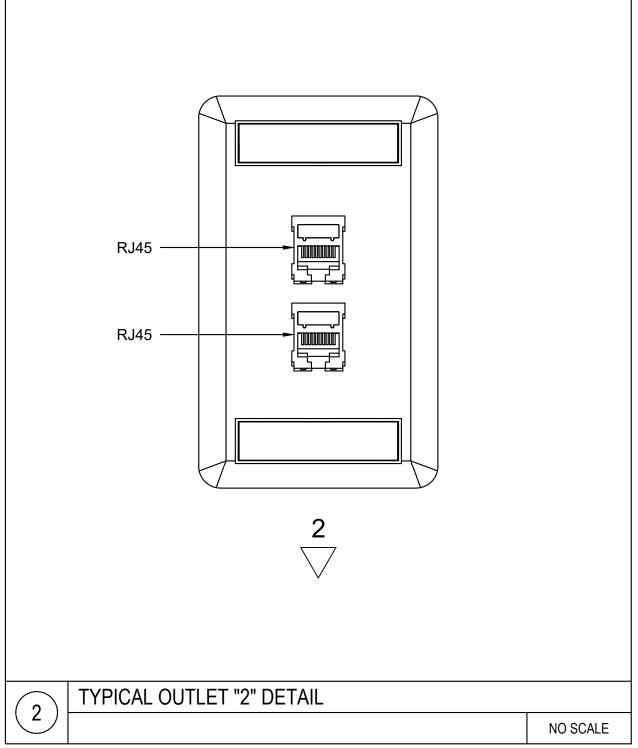
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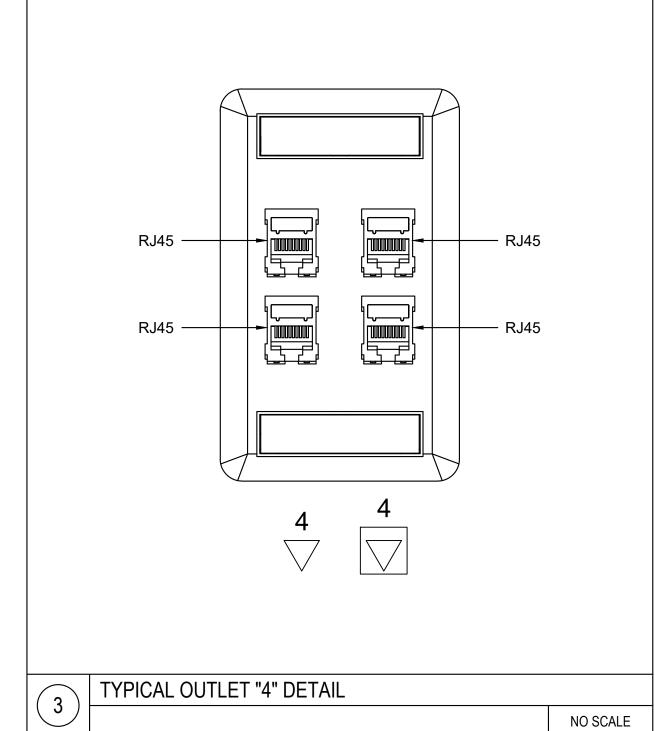
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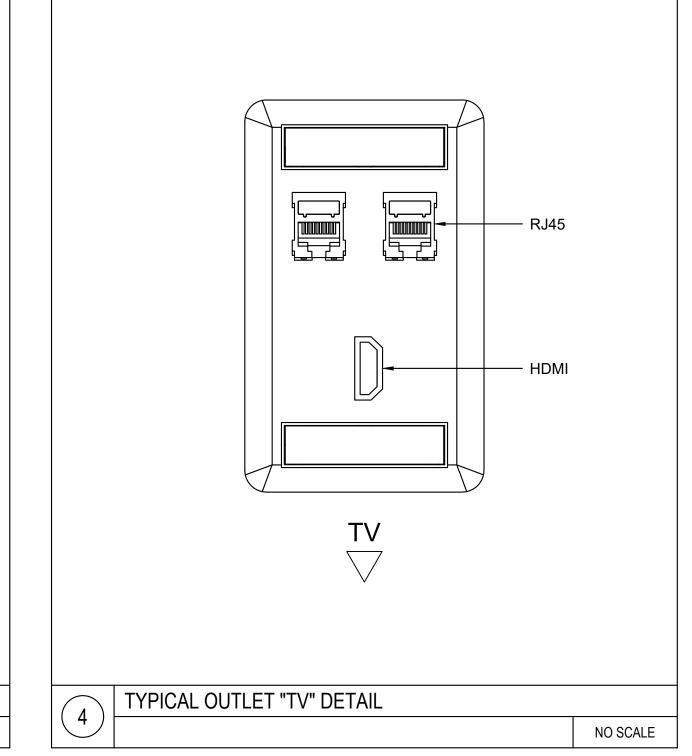
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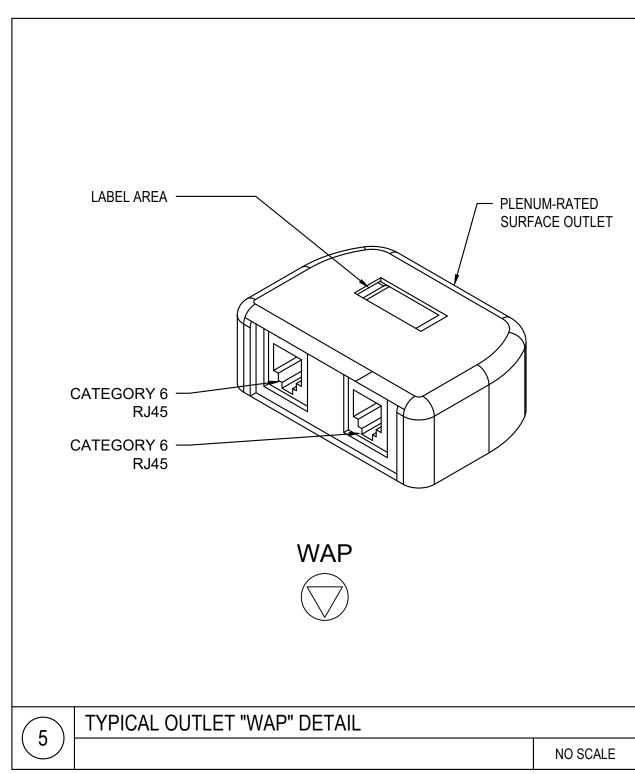
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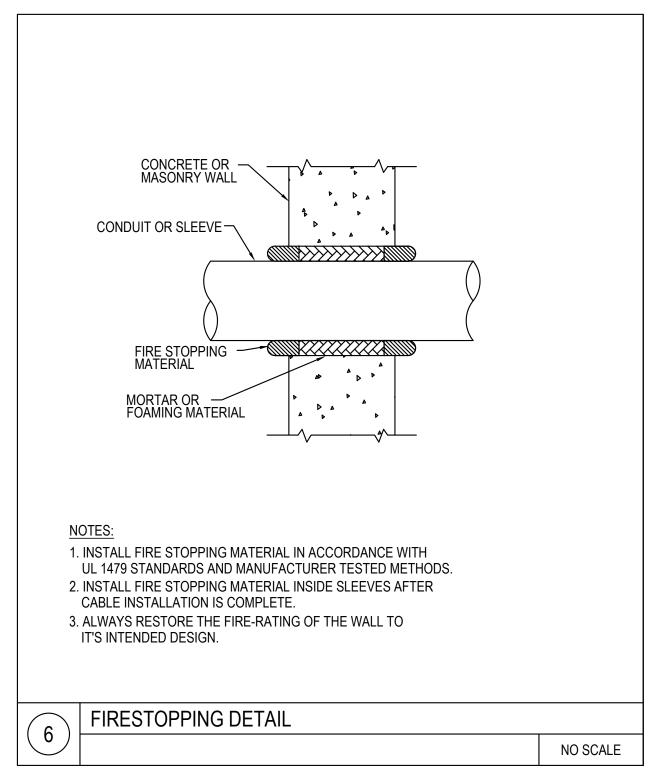


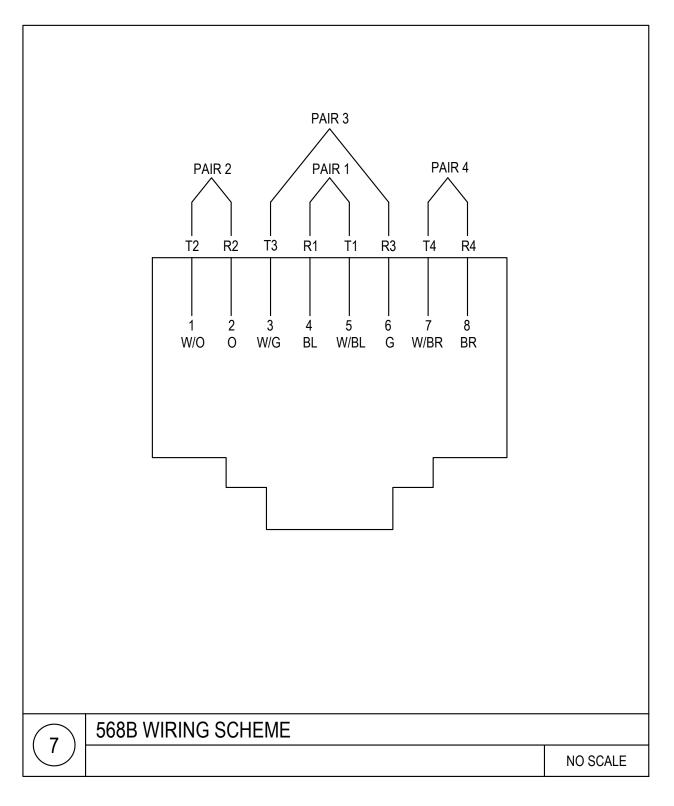














Details Sheet

DRAWING INFORMATION

DRAWING NUMBER

SECURITY LEGEND AND ABBREVIATIONS

	ABBREVIATIONS
<u>မ</u>	CENTERLINE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
ATR	ALL THREADED ROD
AWG	AMERICAN WIRE GAUGE
BFBI	BUILDER FURNISHED - BUILDER INSTALLED
BMS	BUILDING MANAGEMENT SYSTEM
С	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CFD	CEMENT-FIBER DUCT
CL	CLOSET
CLG	CEILING
COAX	COAXIAL CABLE
СТ	CABLE TRAY
CTR	CENTER
DIA	DIAMETER
DGP	DATA GATHERING PANEL
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATOR
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EQPT	EQUIPMENT
FBO	FURNISHED BY OTHERS
FC	FINISHED CEILING
FCC	FIRE CONTROL CENTER
FR	FIRE RATED
FRP	FIBERGLASS REINFORCED PLASTIC
GFGI	GOVERNMENT FURNISHED - GOVERNMENT INSTALLED
GC	GENERAL CONTRACTOR
GND	GROUND
HVAC	HEATING VENTILATION & AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDP	INTRUSION DETECTION PANEL
IMC	INTERMEDIATE METAL CONDUIT - SEE NEC ARTICLE 342
JB	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LEC	LOCAL EXCHANGE CARRIER
MDF	MAIN DISTRIBUTION FRAME
MM	MULTI-MODE (OPTICAL FIBER)
MTD	MOUNTED
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE - NFPA 70
NESC	NATIONAL ELECTRICAL SAFETY CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OSP	OUTSIDE PANT
PNL	PANEL
PR	PAIRS-NUMBER OF PAIRS IN COPPER CABLE
PVC	POLYVINYL CHLORIDE
RM	ROOM
RMC	RIGID METAL CONDUIT - SEE NEC ARTICLE 344
RU	RACK UNIT; UNIT OF PATCH PANEL HEIGHT EQUAL TO 1.75 INCH
SCC	SECURITY CONTROL CENTER
SDF	SECURITY DISTRIBUTION FRAME
SM	SINGLE-MODE (OPTICAL FIBER)
STP	SHIELDED TWISTED PAIR
TBD	TO BE DETERMINED
TC	TELECOMMUNICATIONS CONTRACTOR
TEL	TELECOMMUNICATION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
WP	WEATHERPROOF
V V I	TENTILLIA NOOL

LOW VOLTAGE WIRING DEVICE LEGEND

CR M / E	CARD READER LOCATION (1) - 22/6 SHIELDED E = EXISTING TO REMAIN; M = MULLION READER W = WIRELESS LOCKS	
(DC)	DOOR CONTACT LOCATION (1) - 18/4 SHIELDED FOR DOOR CONTACT	
RE	REQUEST TO EXIT LOCATION (1) - 18/4 SHIELDED	
EL	ELECTRIFIED LOCK LOCATION (1) - 16/2 SHIELDED	
ES	ELECTRIC STRIKE (1) - 16/2 SHIELDED	
PB	PANIC BUTTON (1) - 18/4 SHIELDED	
MS	MOTION SENSOR LOCATION (1) - 18/4 SHIELDED	
KP	KEY PAD LOCATION (1) - 18/4 SHIELDED	
VIC	VIDEO INTERCOM LOCATION	
JB	4-11/16" JUNCTION BOX	
CAM	FIXED VIEW CAMERA LOCATION	

LEGEND NOTES

THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.

DRAWING LIST

DIAWING EIGT		
SE001	SECURITY - LEGEND AND NOTES SHEET	
SE100	SECURITY - BASEMENT FLOOR PLAN	
SE101	SECURITY - FIRST FLOOR PLAN	
SE102	SECURITY - SECOND FLOOR PLAN	
SE200	SECURITY - DETAILS SHEET	

CAMERA SCHEDULE INTEGRATION Camera Mount C=Ceiling W=Wall P=Pole Cable N=New Type Interior/ Exterior N=New Card Access Camera Record on Motion XR= Existing WDR Record Rate (FPS) Basis of Design Model Camera Callup Comments IP ADDRESS MAC ADDRESS **Device Number** Field of View Callup (Device E=Existing to be (Device Number) Number) Replaced type 2 class 4 **CAM 001** 3.4-10.5mm 15 FPS ALTA 5.0C-H6SL-D01-IR-30 **Exterior** Door Entrance type 2 class 4 **CAM 002** Multipupose room **15 FPS** ALTA 3.0C-H6SL-IR-30 3.4-10.5mm 2592x1944 ## type 2 class 4 **CAM 001** 3.4-10.5mm 15 FPS ALTA 5.0C-H6SL-D01-IR-30 **Exterior Door Entrance** 802.3at 15 FPS ALTA 32C-H5A-4MH-30 type 2 class 4 **CAM 004 Exterior** Pool/Park 3.3-5.7mm 2592x1944

360° CAM

SECURITY NOTES:

AND VIDEO INTERCOMS.

INFORMATION/.

360° CAMERA

1. TELECOM CONTRACTOR SHALL RUN DATA CABLING FOR ALL SECURITY CAMERA

2. SECURITY CONTRACTOR TO REFER TO TELECOM DRAWINGS FOR ADDITIONAL

bh+a

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City of Providence

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4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

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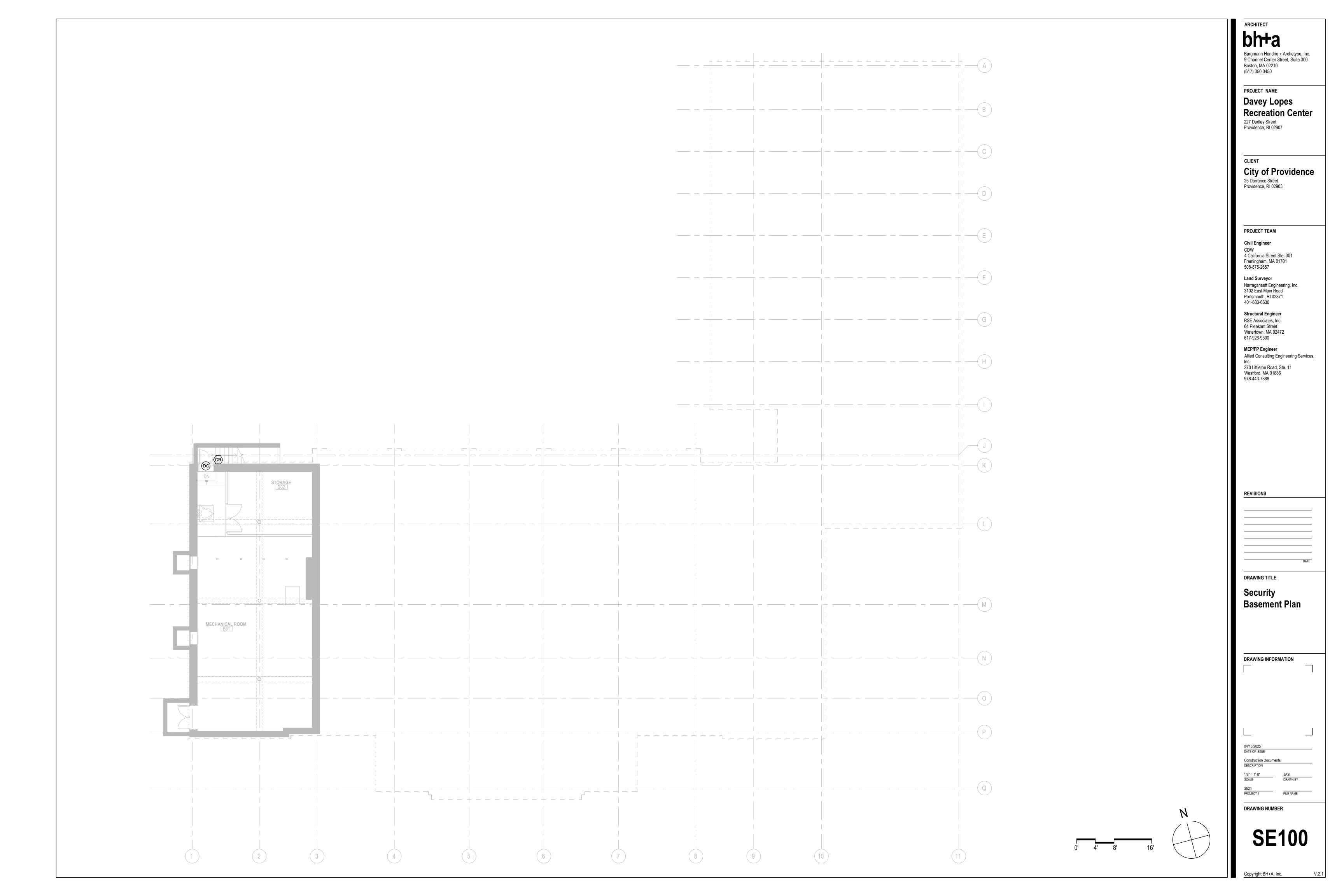
978-443-7888

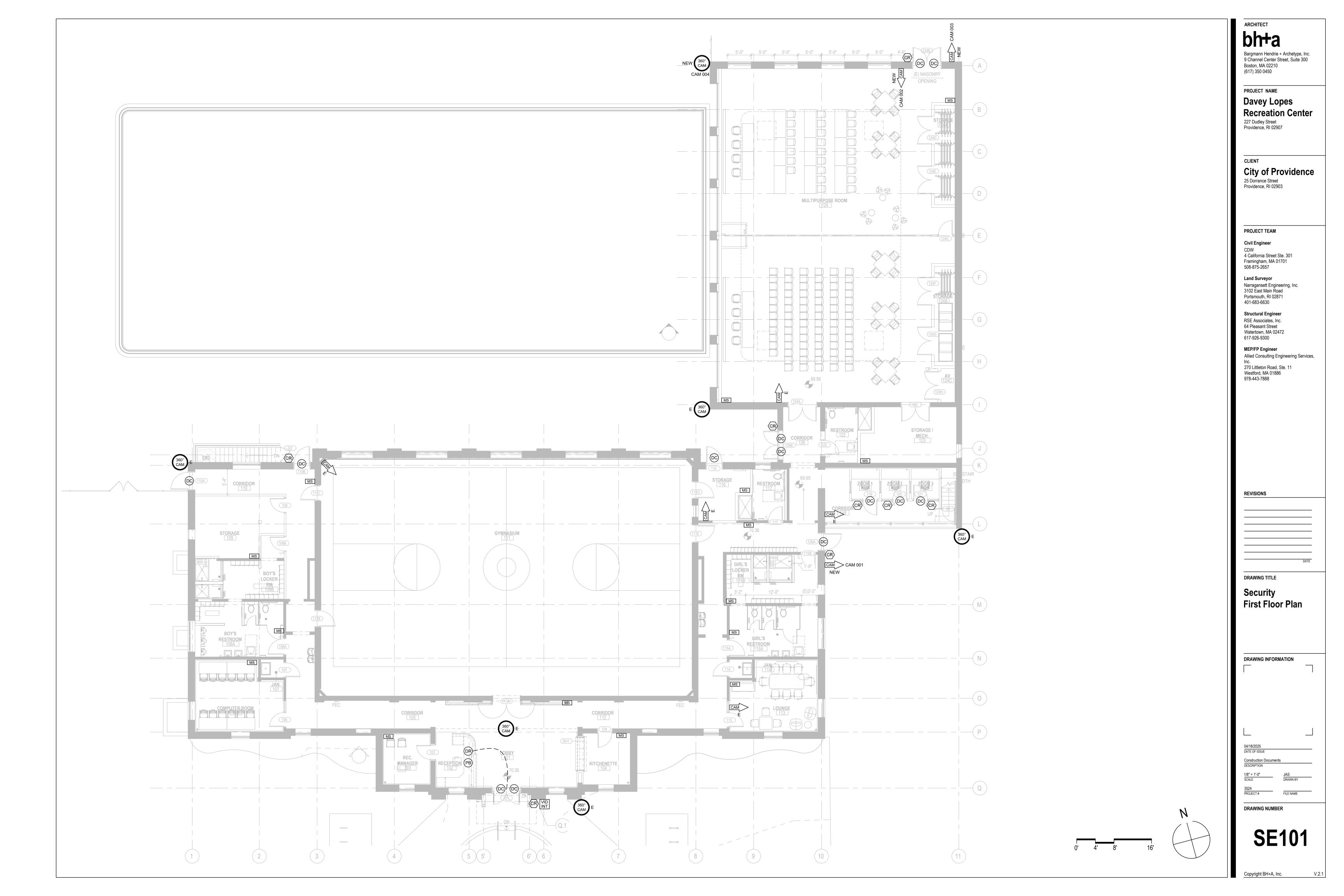
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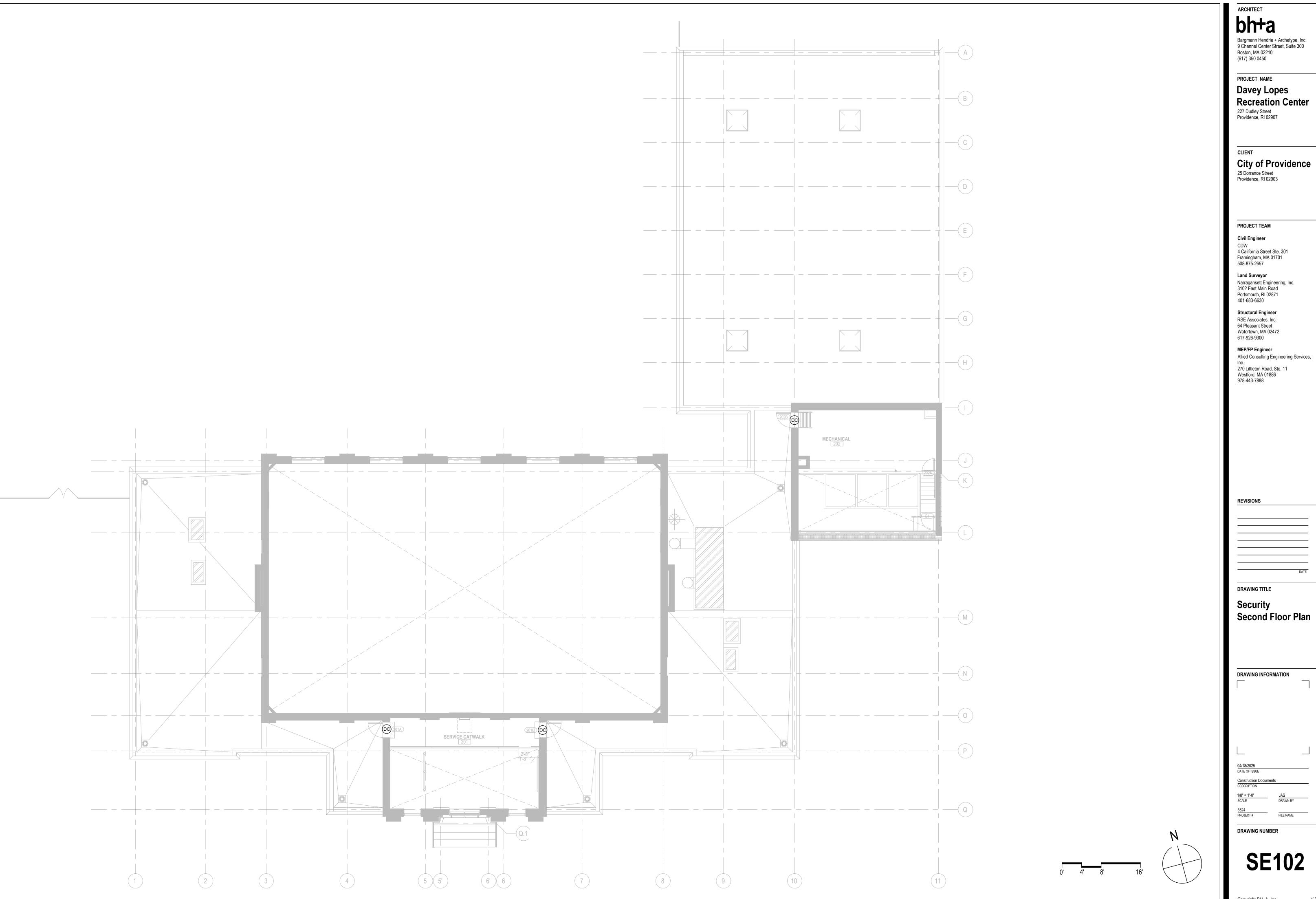
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DRAWING INFORMATION

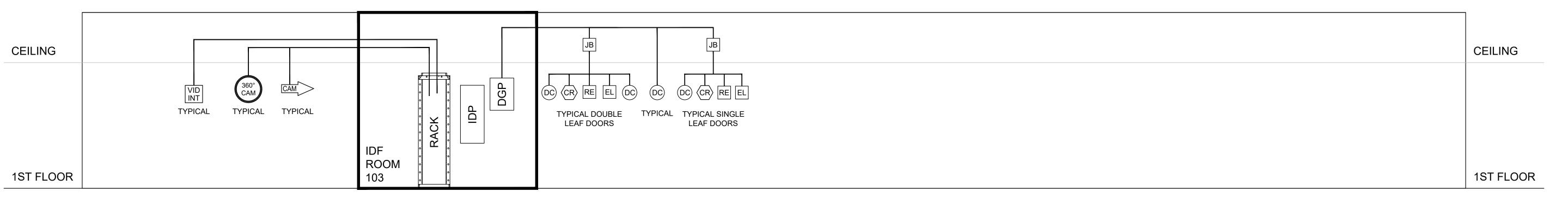
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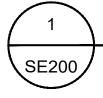


TELECOM CONDUIT RISER



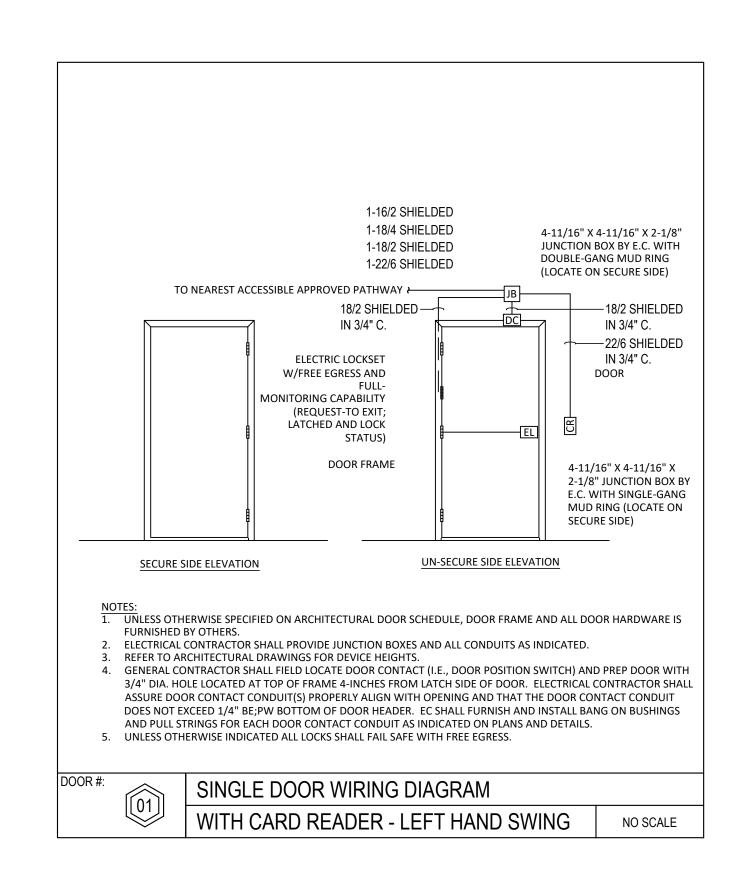
NOTES:

- 1. SEE SECURITY FLOOR PLANS FOR DEVICE QUANTITIES
- 2. CONTRACTOR TO PROVIDE (2) 18/4 INDOOR/OUTDOOR RATED, SHIELDED CABLES TO EXTEND THE INTRUSION DETECTION AND ACCESS CONTROL SYSTEMS.



SECURITY CABLING RISER DIAGRAM

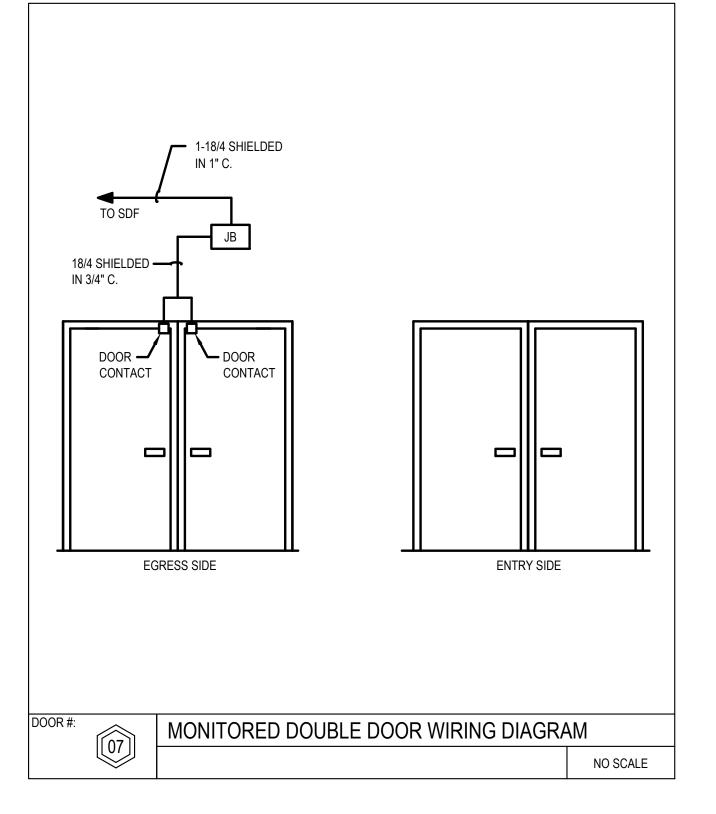
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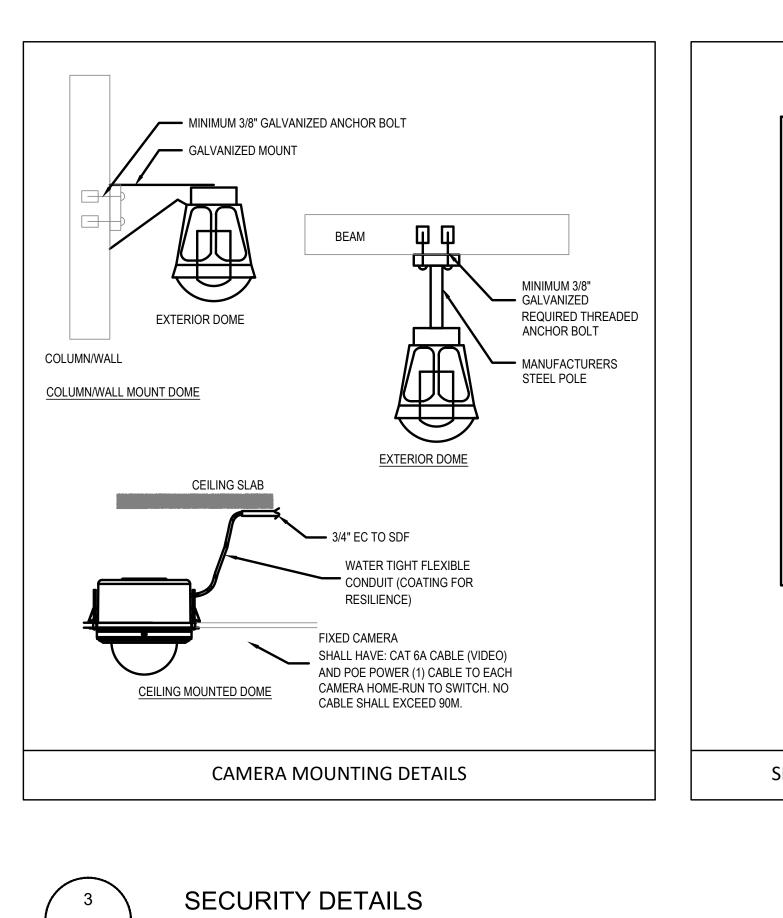


SECURITY DOOR TYPE DETAILS

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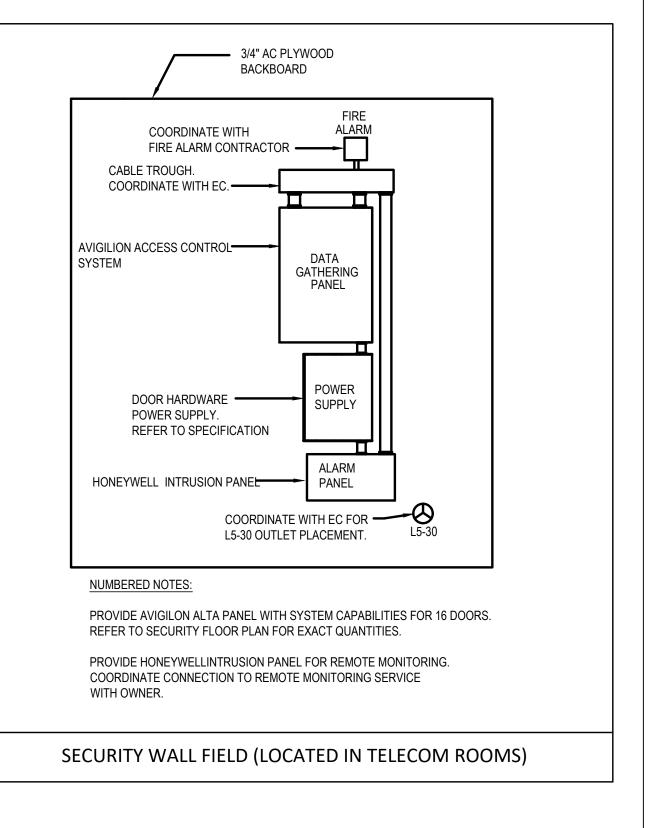
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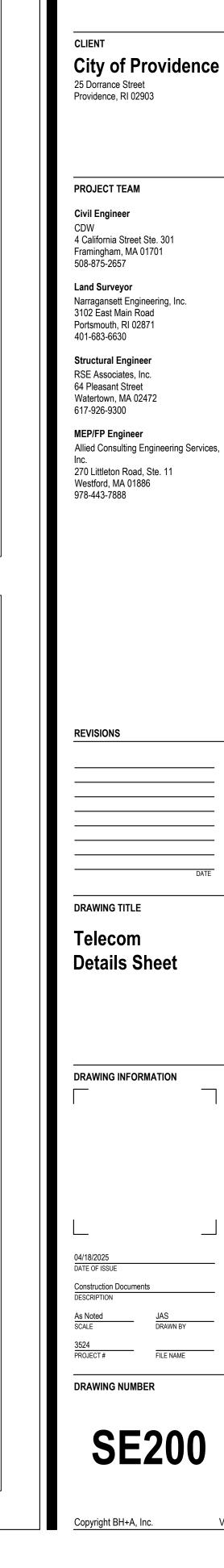




SCALE: N.T.S.

SE200





Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

Recreation Center

Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes

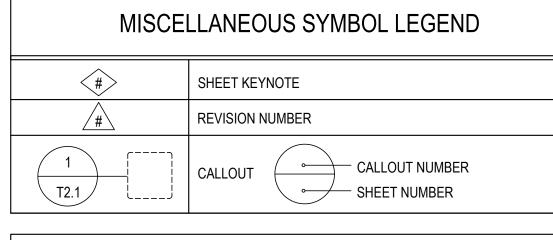
227 Dudley Street Providence, RI 02907

AUDIO/VISUAL LEGEND AND ABBREVIATIONS

	ABBREVIATIONS
	CENTERLINE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
ATR	ALL THREADED ROD
AWG	AMERICAN WIRE GAUGE
BFBI	BUILDER FURNISHED - BUILDER INSTALLED
BMS	BUILDING MANAGEMENT SYSTEM
С	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CFD	CEMENT-FIBER DUCT
CL	CLOSET
CLG	CEILING
COAX	COAXIAL CABLE
СТ	CABLE TRAY
CTR	CENTER
DIA	DIAMETER
DWB	DISPLAY WALL BOX
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATOR
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
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LEC	LOCAL EXCHANGE CARRIER
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MM	MULTI-MODE (OPTICAL FIBER)
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NESC	NATIONAL ELECTRICAL SAFETY CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OSP	OUTSIDE PANT
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PR	PAIRS-NUMBER OF PAIRS IN COPPER CABLE
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STP	SHIELDED TWISTED PAIR
TBD	TO BE DETERMINED
TC	TELECOMMUNICATIONS CONTRACTOR
TEL	TELECOMMUNICATION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR

WP WEATHERPROOF

SYMBOLS LEGEND		
RACEWAY LEGEND		
т — т — —	TELECOMMUNICATIONS CONDUIT	
UTUT	CONDUITS BELOW GRADE/SLAB OR EMBEDDED IN SLAB	
J J	CABLES ON J-HOOKS	
0	CONDUIT UP	
•	CONDUIT DOWN	
<u> </u>	CONDUIT STUBBED OUT WITH BUSHING	
@	CONDUIT CROSS-SECTION	
——ст——	TELECOMMUNICATIONS CABLE TRAY	
	TELECOMMUNICATIONS CABLE TRAY	



EXISTING EQUIPMENT		
(E)	EXISTING TO REMAIN	
(X)	EXISTING DEVICE TO BE REMOVED	
(XR)	EXISTING DEVICE TO BE REMOVED AND RELOCATED	
(XL)	NEW LOCATION OF EXISTING RELOCATED DEVICE	

AUDIO/VISUAL DEVICE LEGEND		
н СР	CONTROL PANEL EXTRON MLC 62 RS D	
нTP	TOUCH PANEL CRESTRON TSW-1070-B-S WITH BACK BOX	
НAV	CRESTRON DM-TX-200-C-2G-B-T	
(ANT)	SHURE UA-874 ANTENNA WITH WALL MOUNTED BRACKET	
SB	SOUND BAR JABRA PANACAST 50	
DM	CRESTRON DM-RMC-4KZ-100-C	
S	CRESTRON SAROS IC6T-W-T CEILING SPEAKER	

GENERAL NOTES

SEE WALL ELEVATIONS FOR CONDUIT REQUIREMENTS

PROVIDE PULL STRINGS IN EACH CONDUIT

CHIEF PAC-526 BOX

- THE DRAWINGS AND SPECIFICATIONS INDICATE THE INTENT OF THE DESIGN AND SHALL BE CONSIDERED AS DIAGRAMMATIC ONLY. EXACT LOCATIONS FOR AUDIO/VISUAL DEVICES AND EQUIPMENT SHALL BE DETERMINED AT THE SITE. AS WORK PROGRESSES, DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.
- USE ONLY PRODUCTS LISTED FOR THEIR INTENDED USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), EXCEPT THOSE TYPES OF PRODUCTS FOR WHICH NO RELEVANT STANDARDS EXIST.
- WHERE ELECTRICAL POWER OUTLETS, CONNECTION POINTS AND LIGHTING ARE SHOWN ON THE AUDIO/VISUAL DRAWINGS, THEY ARE INCLUDED ONLY FOR LOCATION COORDINATION PURPOSES. REFER TO THE ELECTRICAL POWER & LIGHTING DRAWINGS FOR THEIR ACTUAL INSTALLATION AND CONSTRUCTION.
- CONDUITS AND EQUIPMENT OF ALL TRADES SHALL BE PROPERLY COORDINATED AND SET TO MAINTAIN THE CLEARANCES REQUIRED BY APPLICABLE FEDERAL, STATE AND
- MOUNTING HEIGHTS SHALL BE AS INDICATED ON ARCHITECTURAL DRAWINGS.

THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.

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AV001	AUDIO/VISUAL - LEGEND AND NOTES SHEET
AV101	AUDIO/VISUAL - FIRST FLOOR PLAN
AV200	AUDIO/VISUAL - DETAILS SHEET
AV201	AUDIO/VISUAL - DETAILS SHEET
AV202	AUDIO/VISUAL - DETAILS SHEET
AV203	AUDIO/VISUAL - DETAILS SHEET
AV204	AUDIO/VISUAL - DETAILS SHEET
AV205	AUDIO/VISUAL - DETAILS SHEET

LEGEND NOTES

bh+a

Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes

227 Dudley Street Providence, RI 02907

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

4 California Street Ste. 301 Framingham, MA 01701

Narragansett Engineering, Inc. 3102 East Main Road

Civil Engineer

508-875-2657

Land Surveyor

401-683-6630

Portsmouth, RI 02871

Structural Engineer

RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer

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Allied Consulting Engineering Services,

Recreation Center

City of Providence

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300

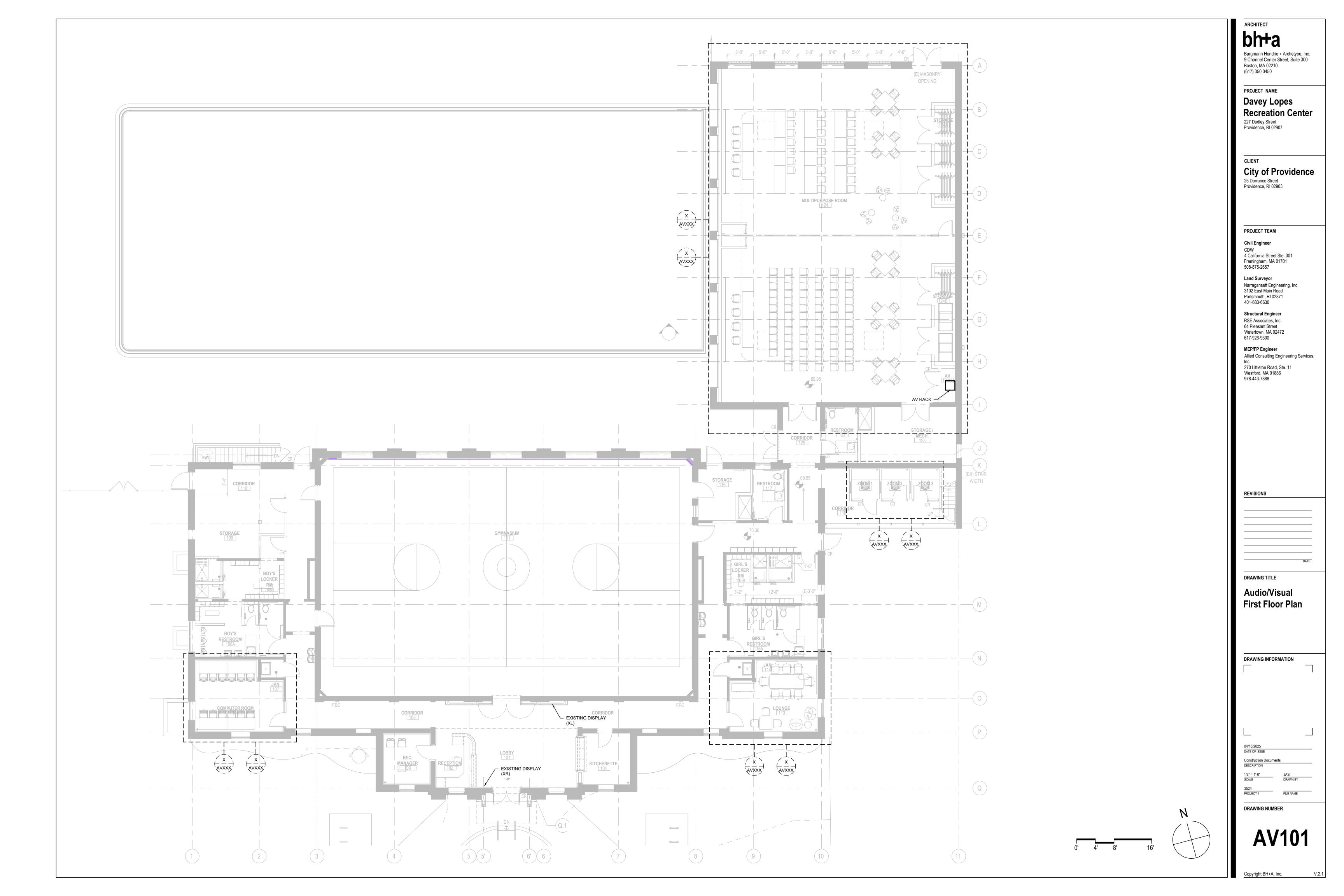
REVISIONS

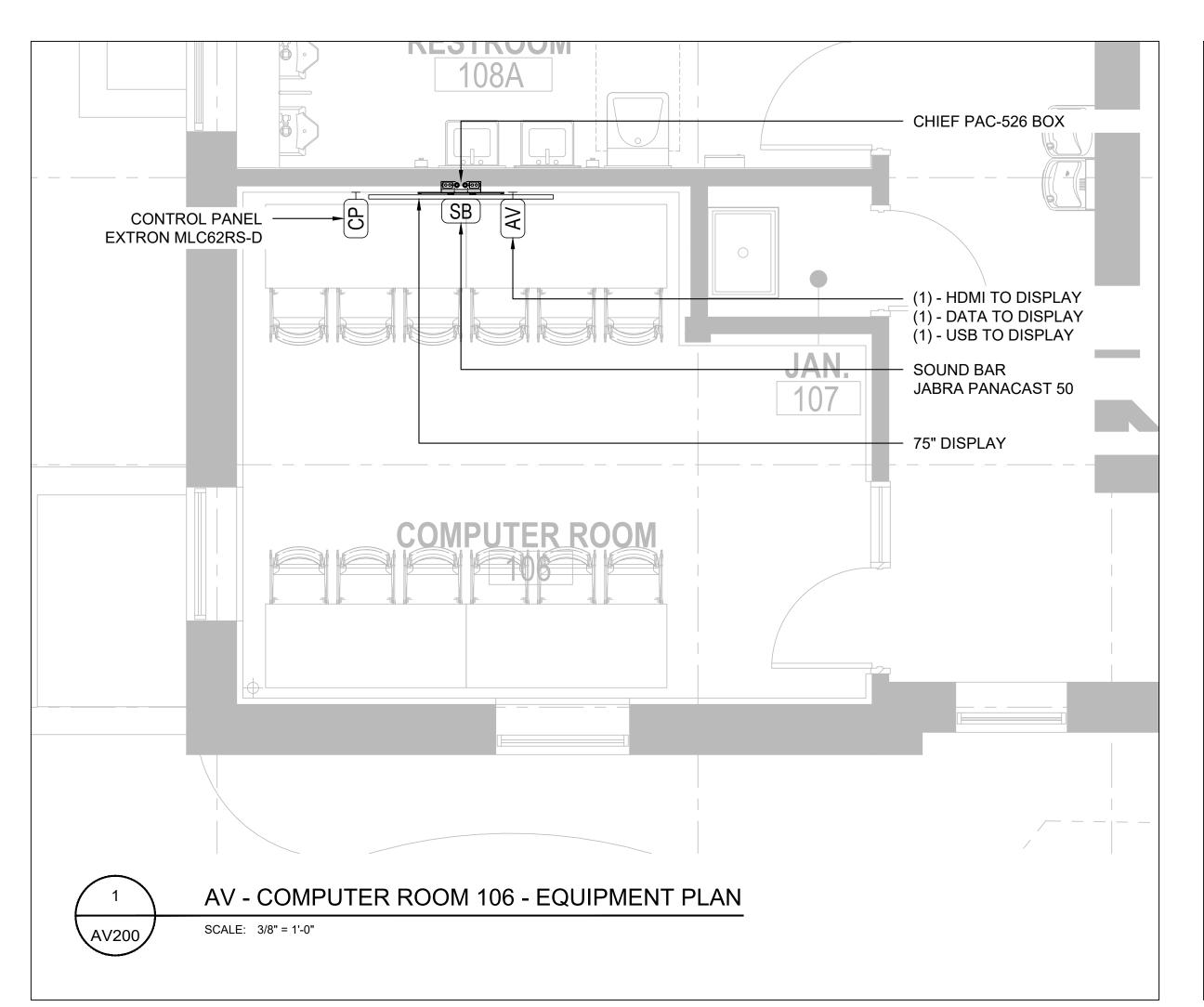
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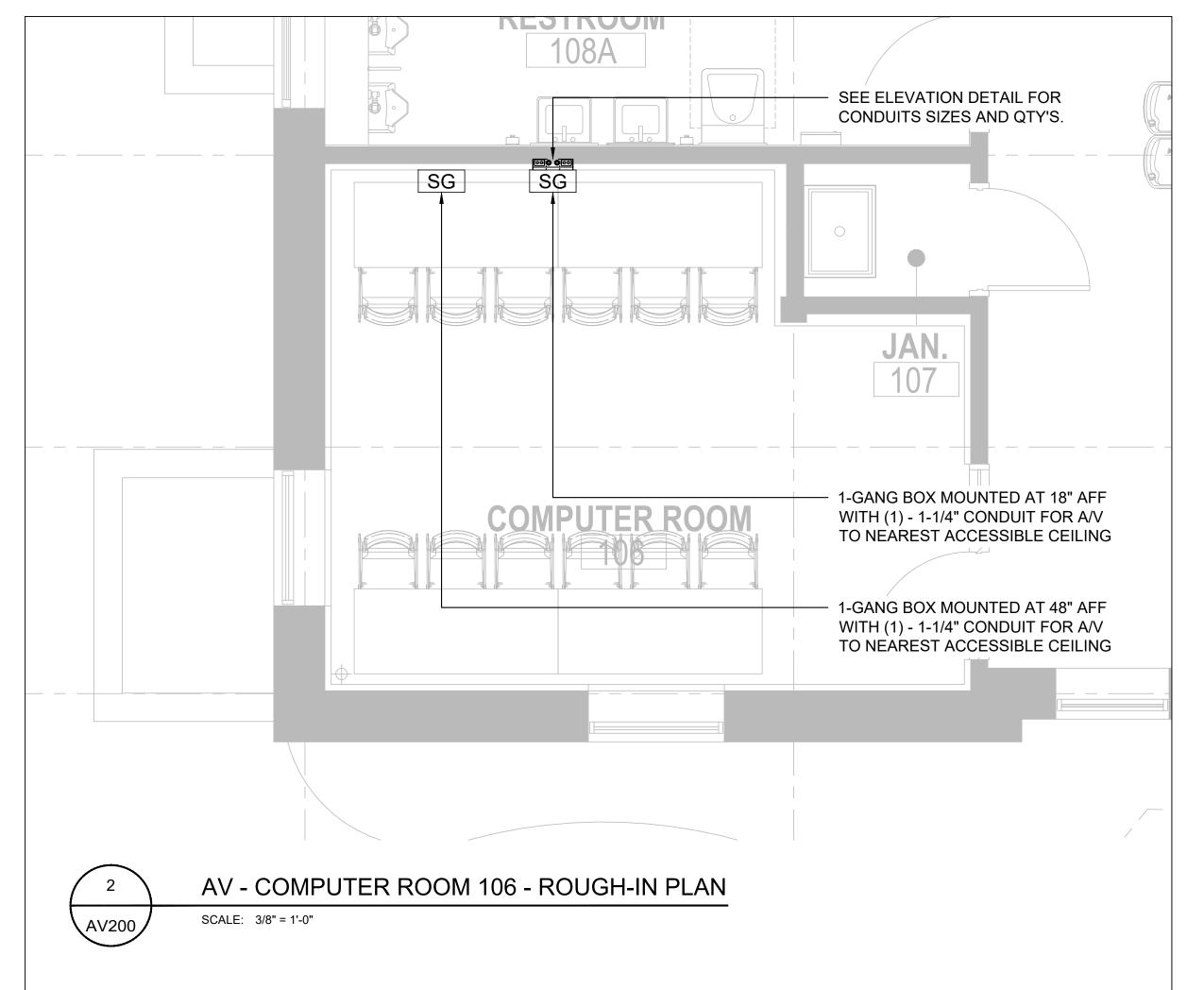
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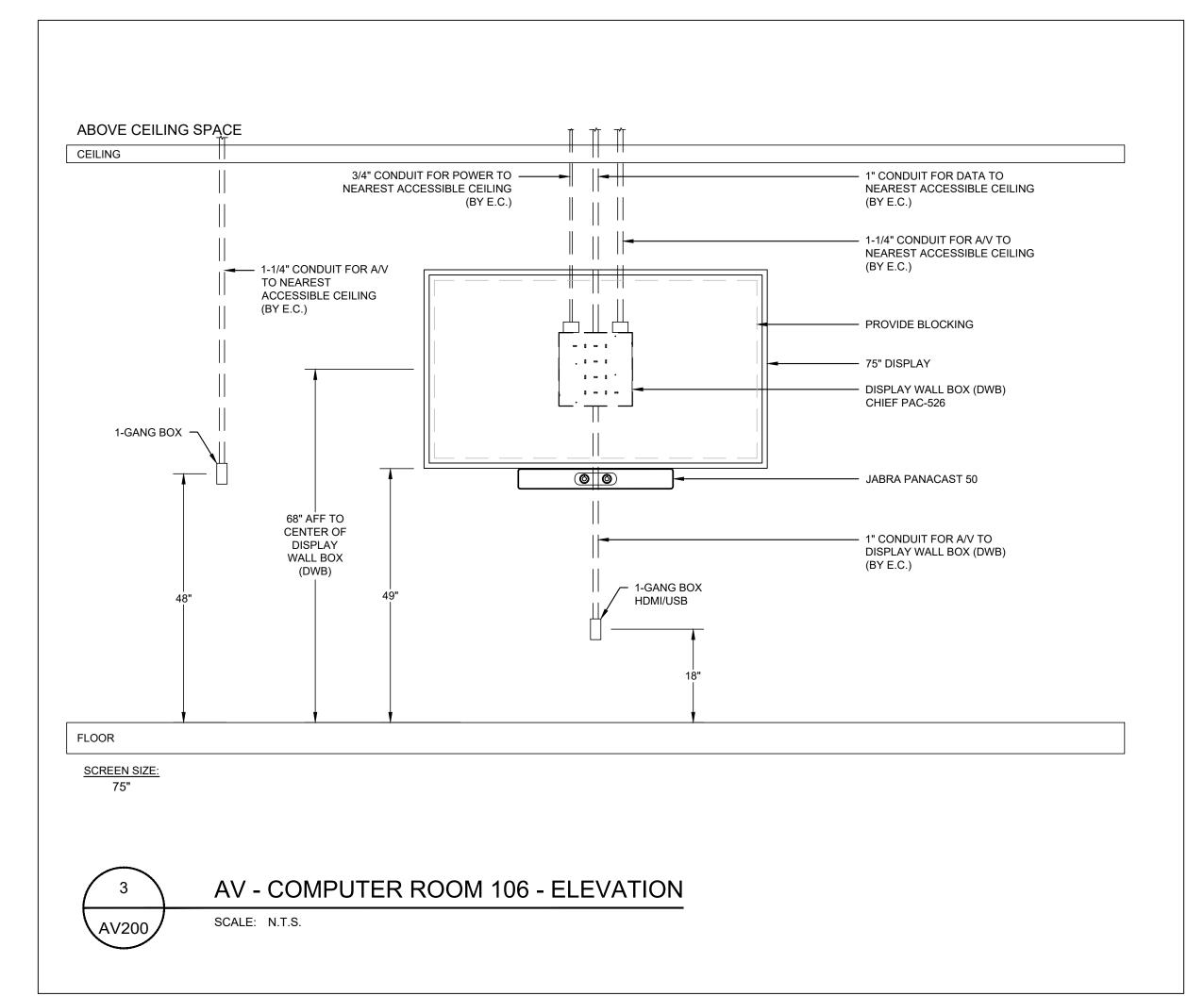
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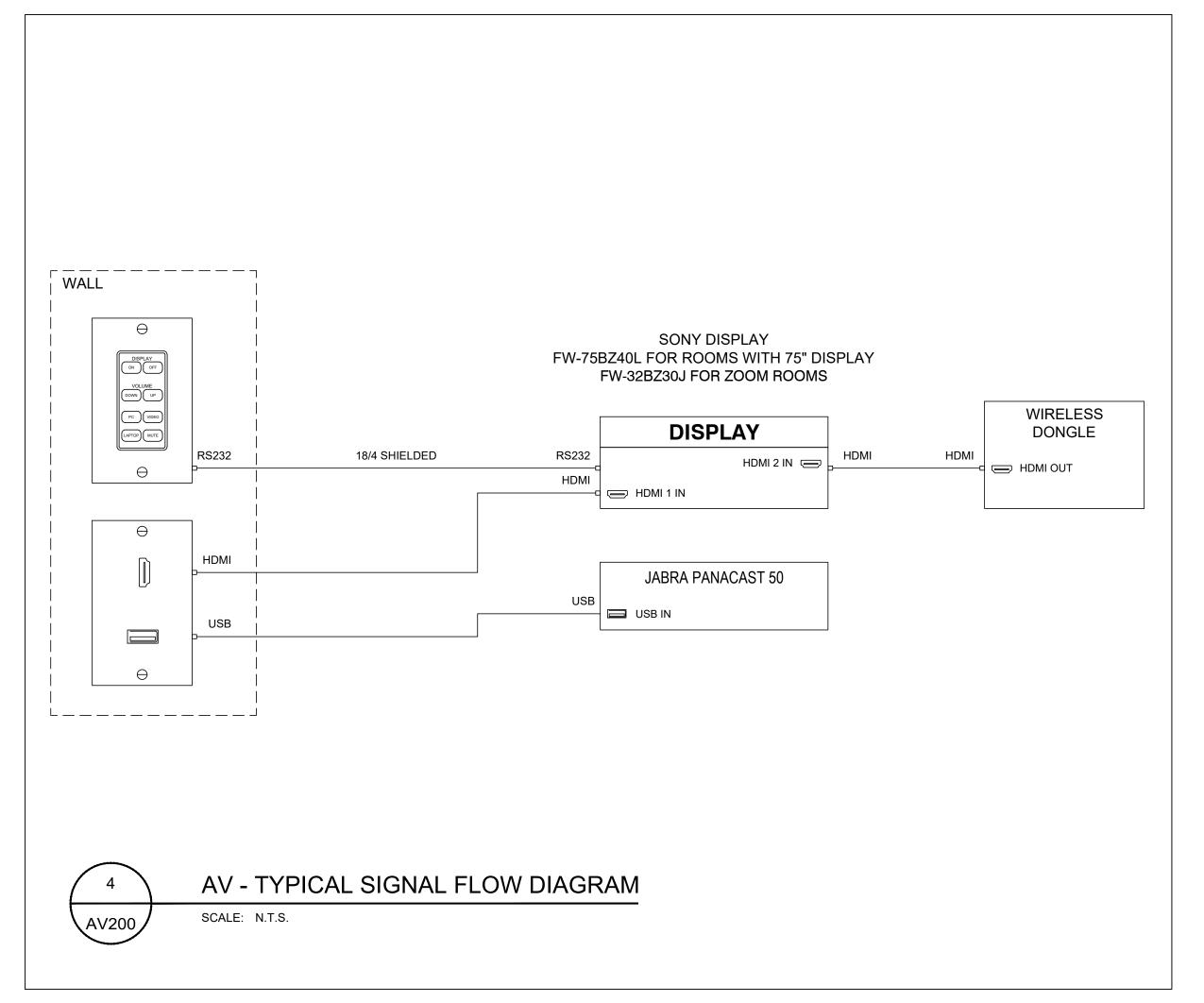
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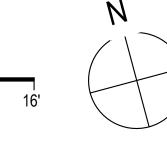












ARCHITECT **bh+a**Bargmann Hendrie + Archetype, Inc.

9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

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270 Littleton Road, Ste. 11

Westford, MA 01886 978-443-7888

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Audio/Visual Details Sheet

DRAWING INFORMATION

4/18/2025

DATE OF ISSUE

Construction Documents

DESCRIPTION

DESCRIPTION

As Noted JAS

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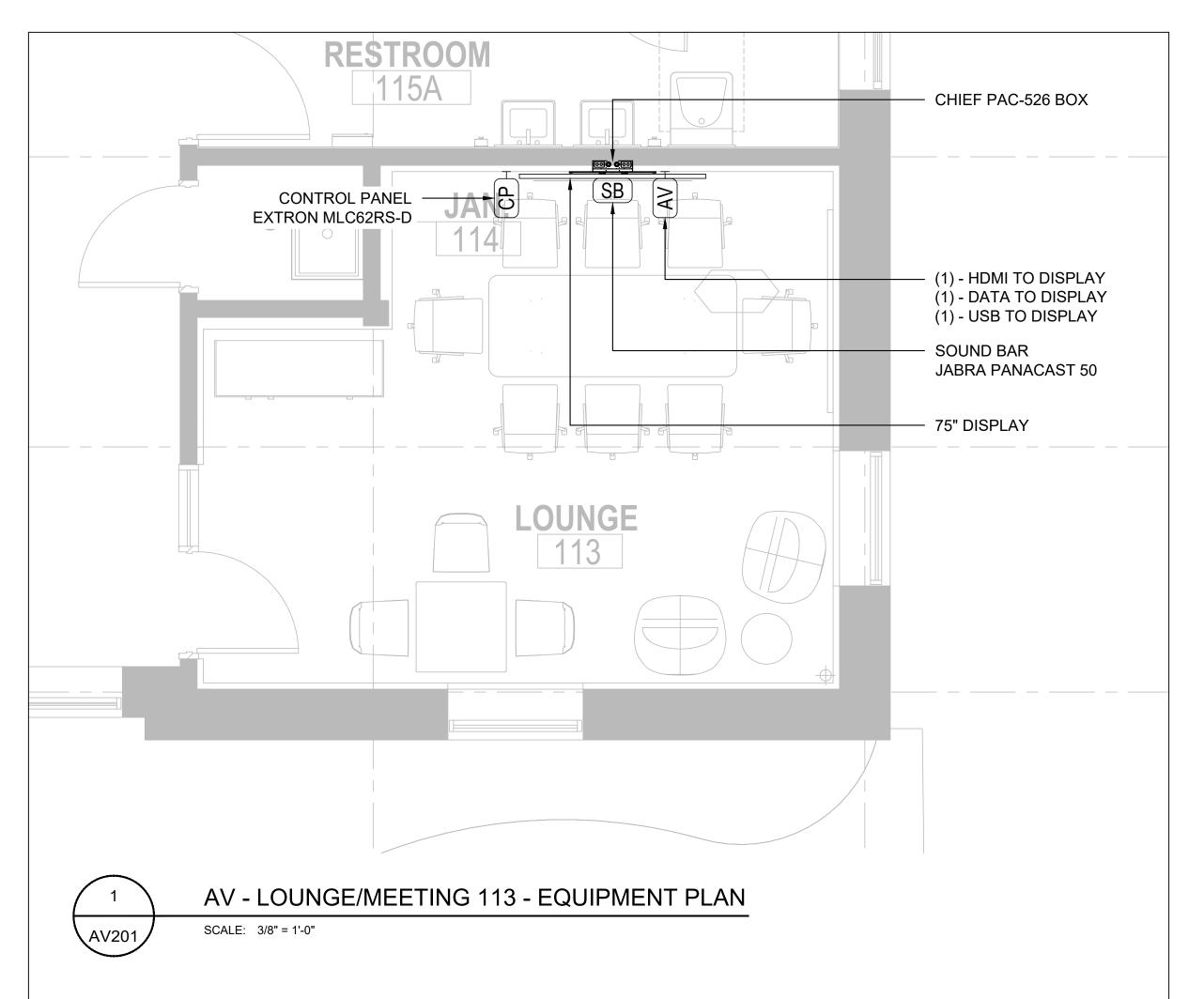
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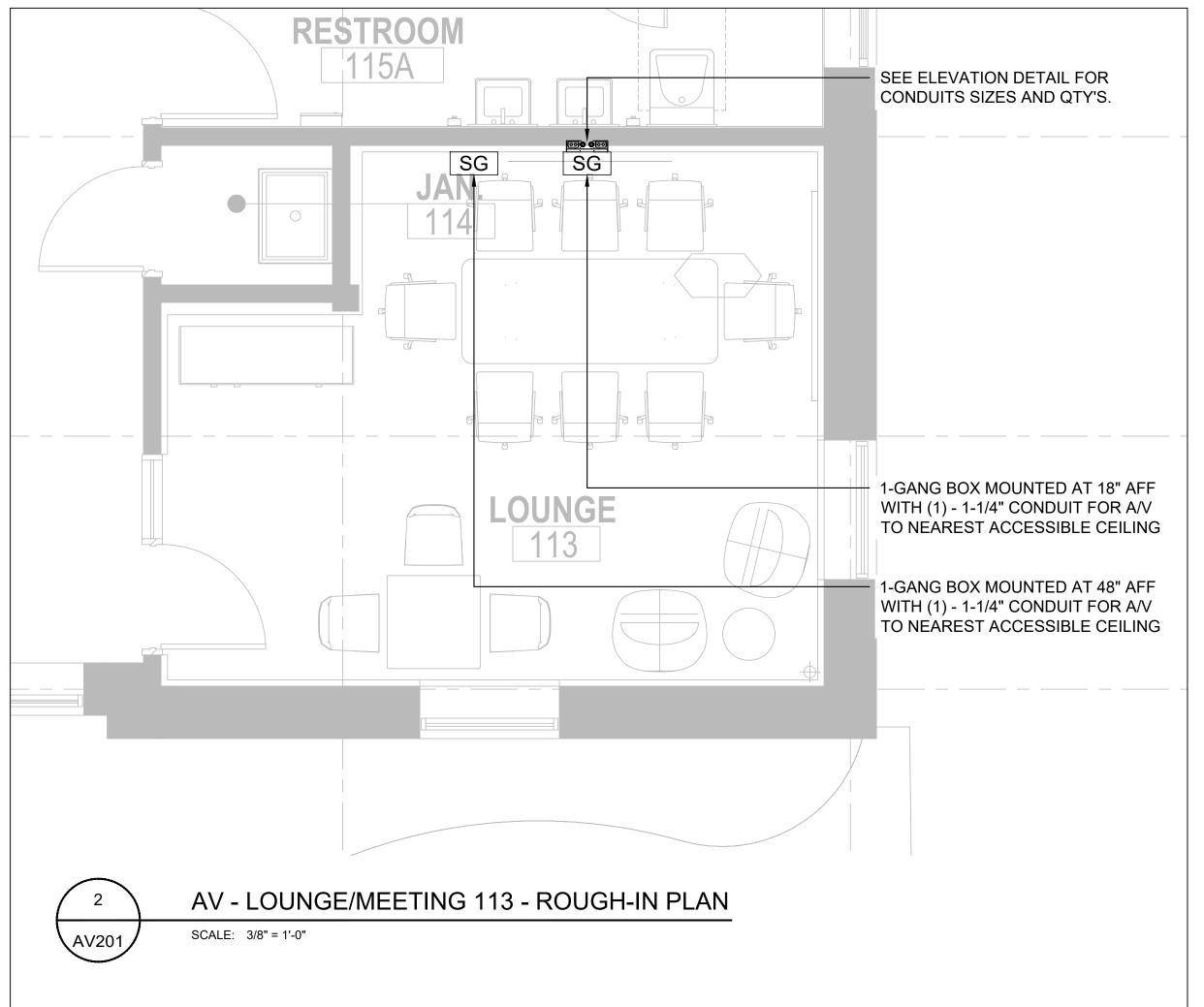
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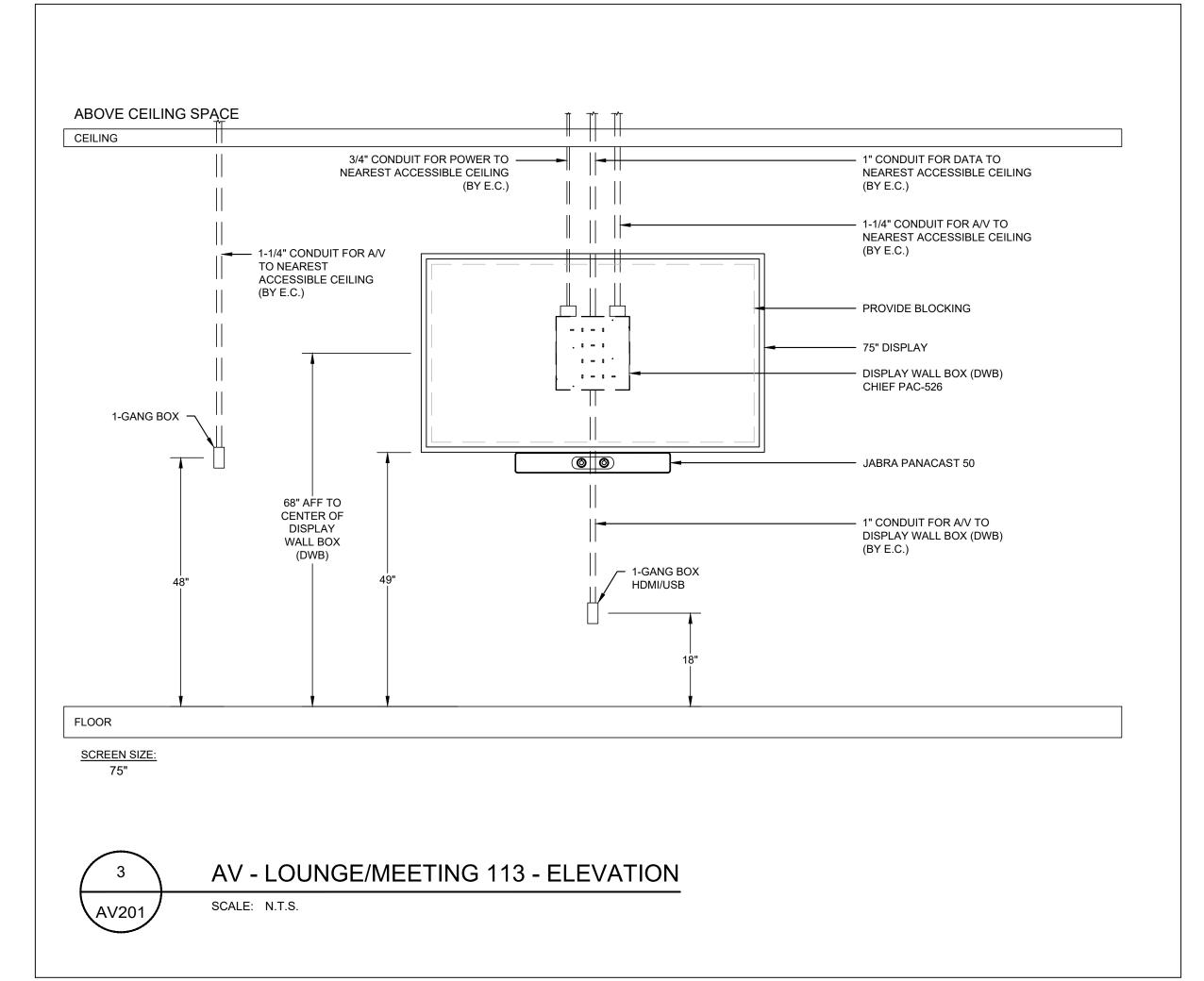
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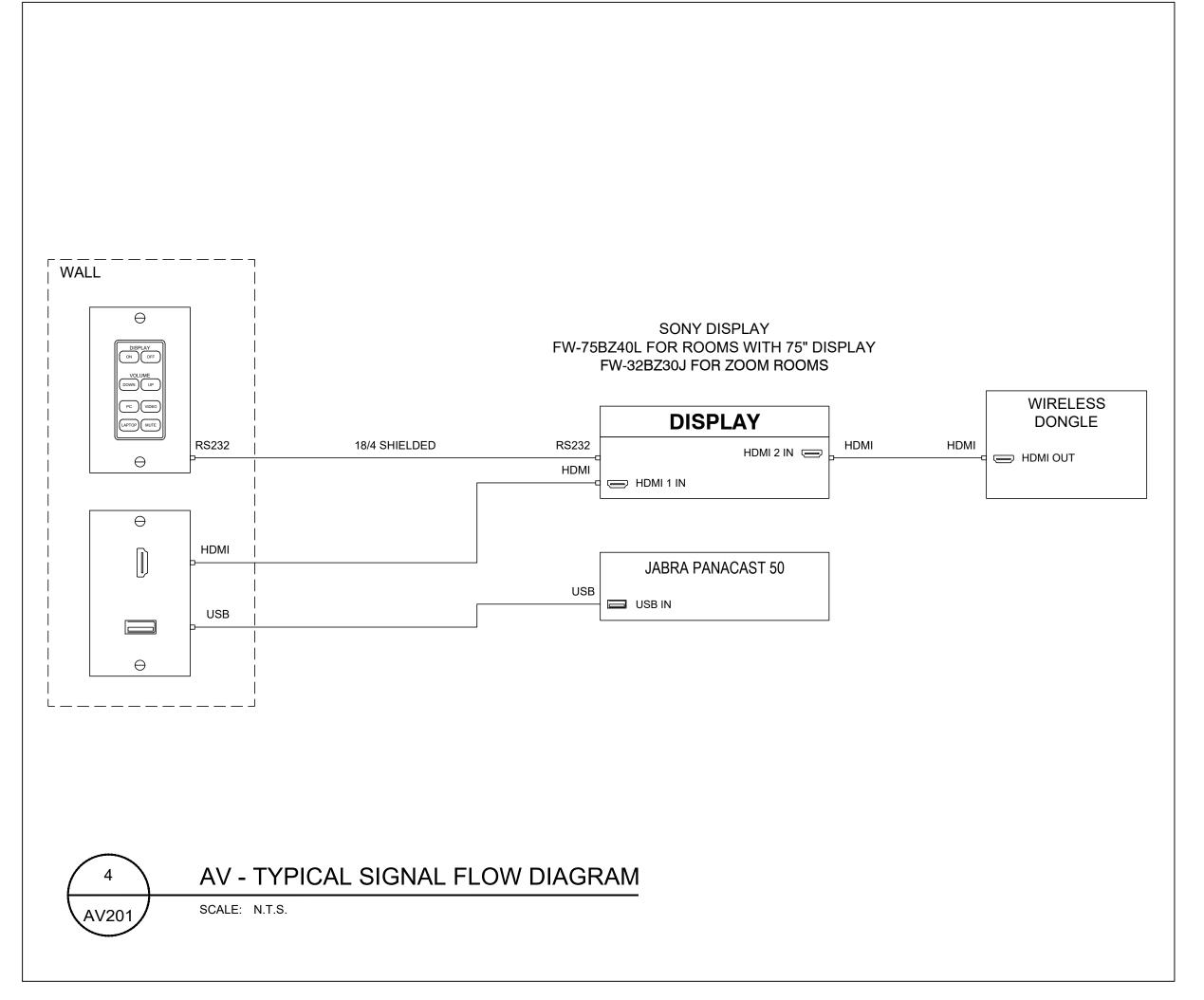
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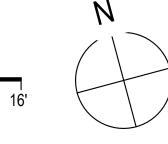
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04/18/2025
DATE OF ISSUE

Construction Documents

Construction Documents
DESCRIPTION
As Noted JAS

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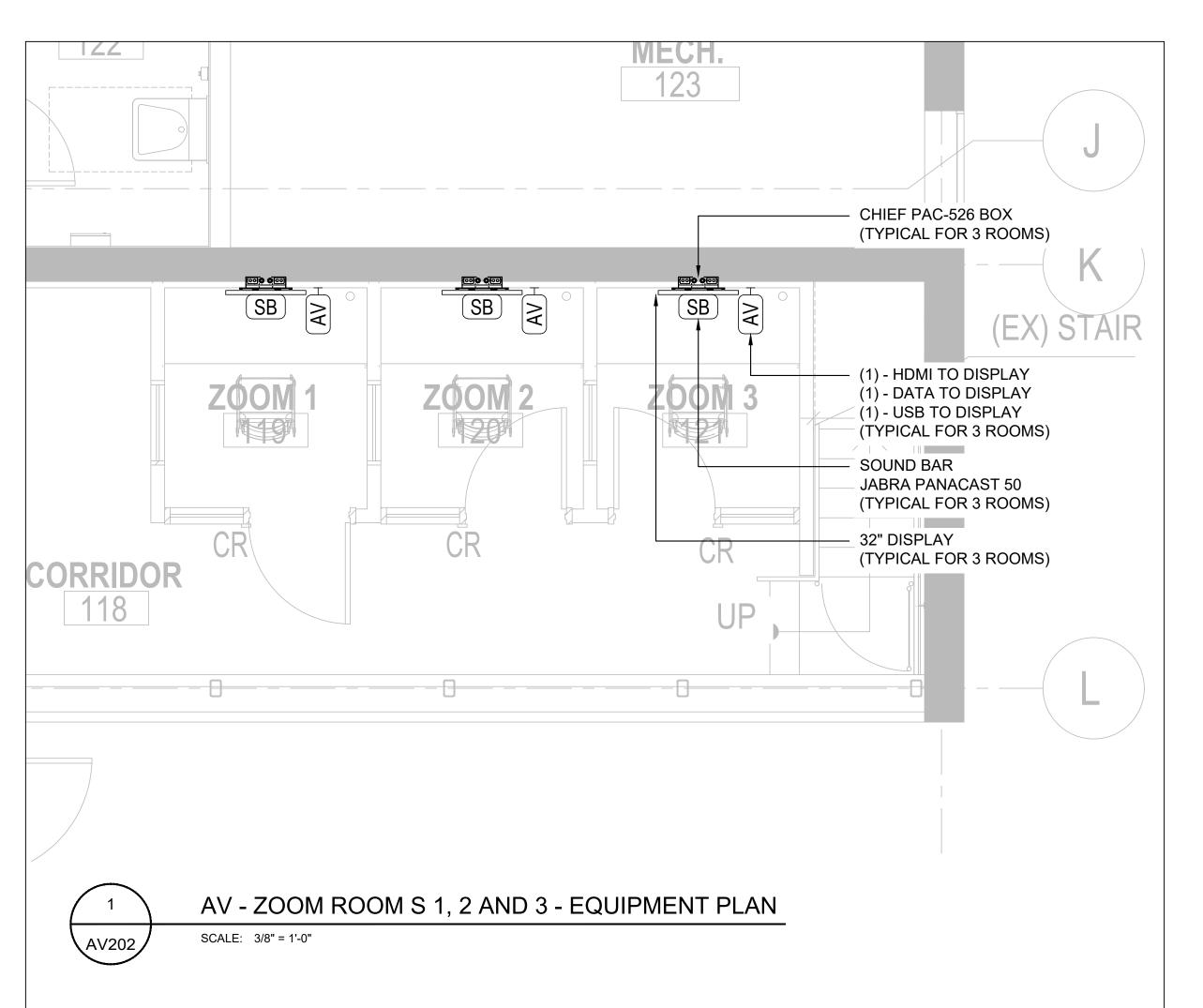
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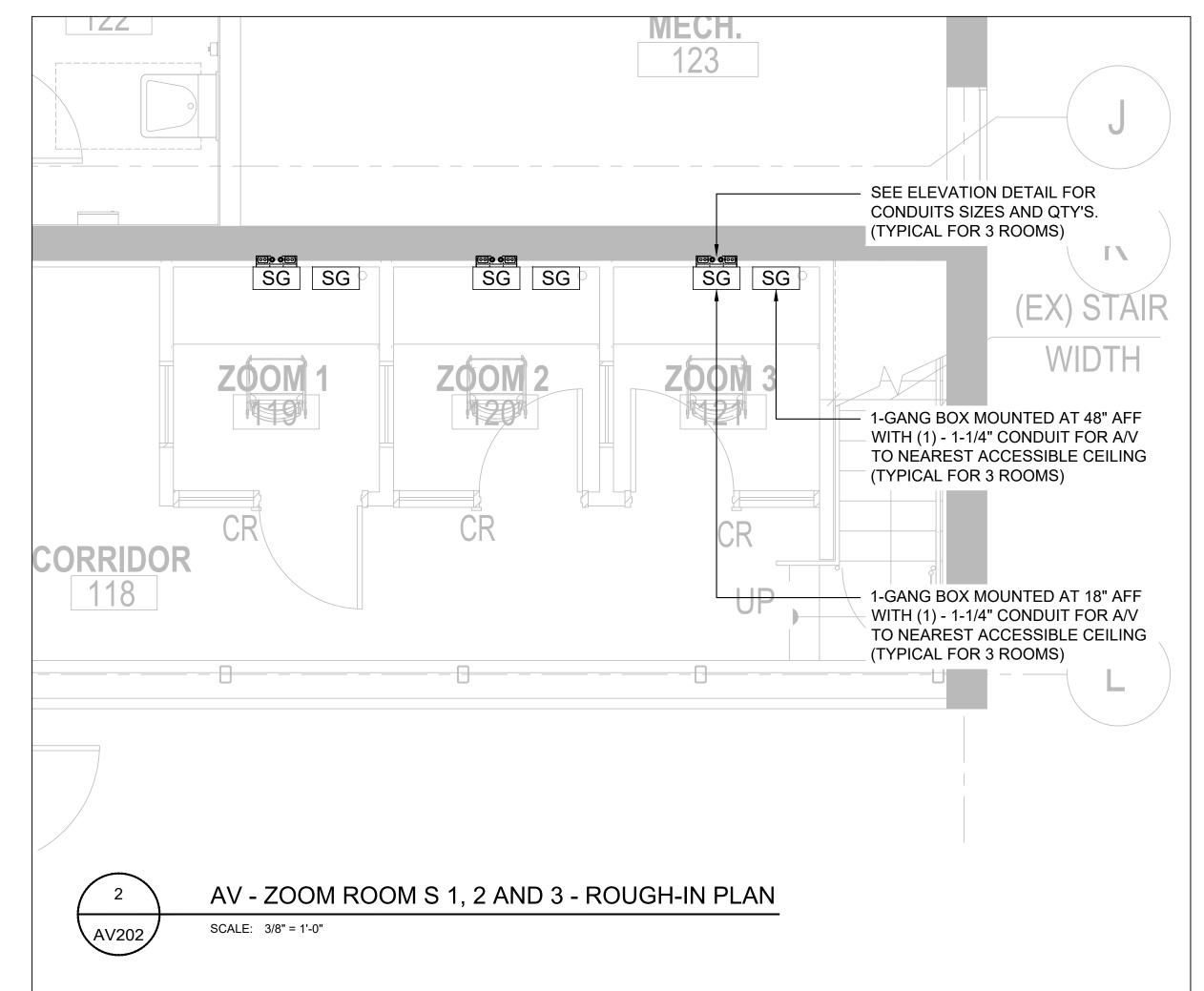
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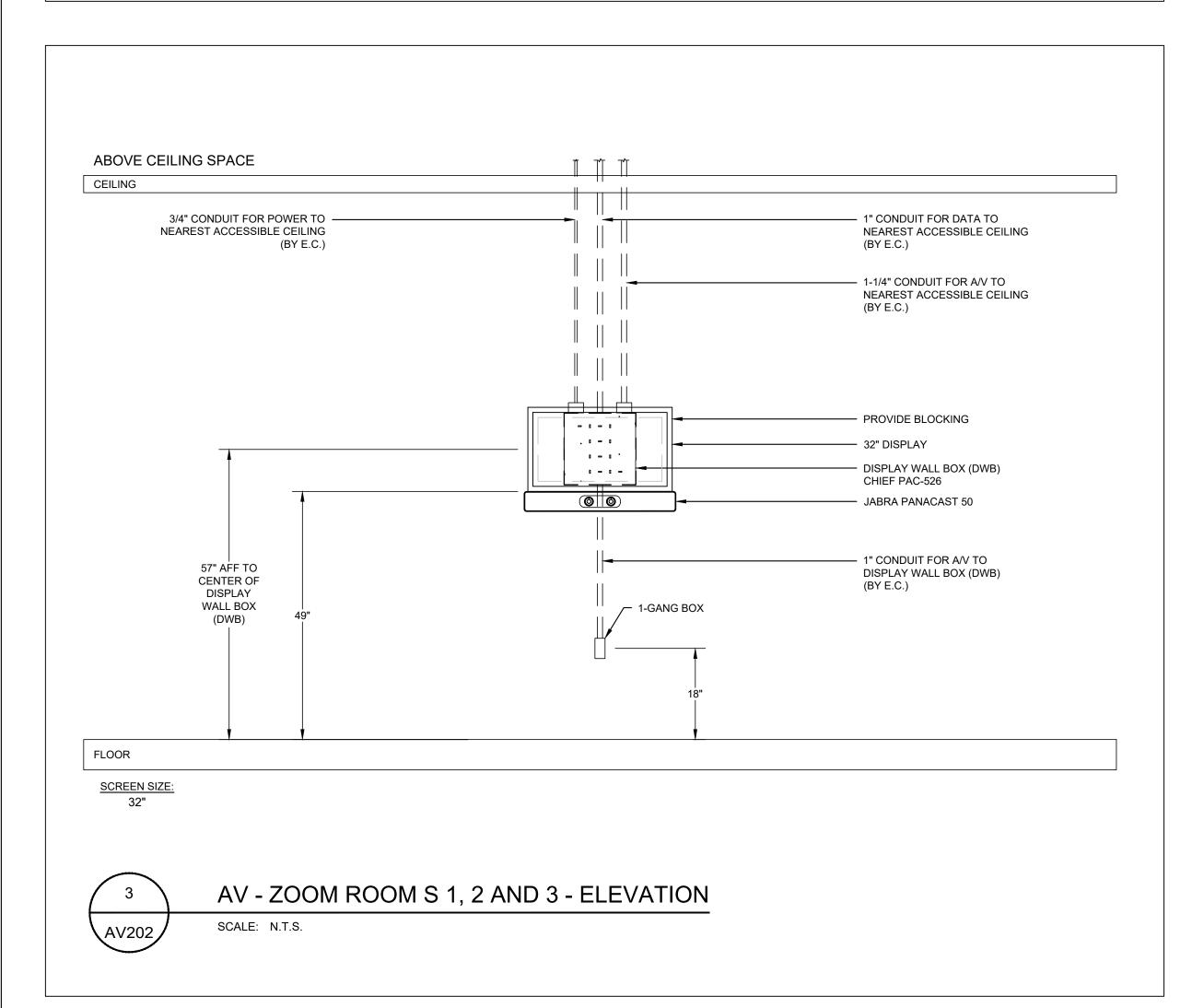
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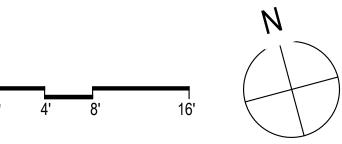
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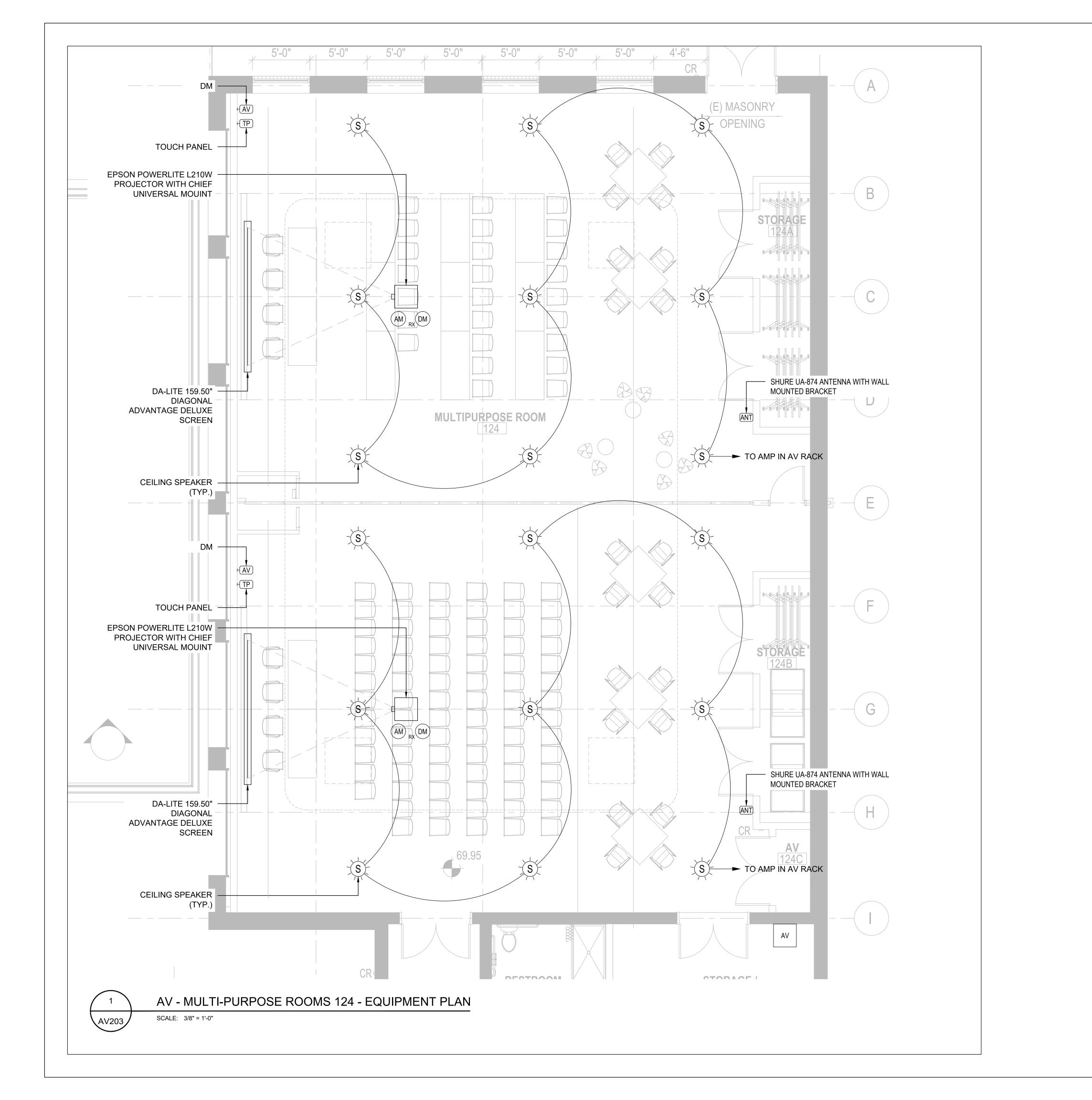
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ARCHITECT

bh+a

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

PROJECT NAME

Davey Lopes
Recreation Center

227 Dudley Street Providence, RI 02907

City of Providence

25 Dorrance Street Providence, RI 02903

PROJECT TEAM

Civil Engineer CDW 4 California Street Ste. 301 Framingham, MA 01701 508-875-2657

Land Surveyor
Narragansett Engineering, Inc.
3102 East Main Road
Portsmouth, RI 02871
401-683-6630

Structural Engineer RSE Associates, Inc. 64 Pleasant Street Watertown, MA 02472 617-926-9300

MEP/FP Engineer
Allied Consulting Engineering Services, Inc.
270 Littleton Road, Ste. 11
Westford, MA 01886
978-443-7888

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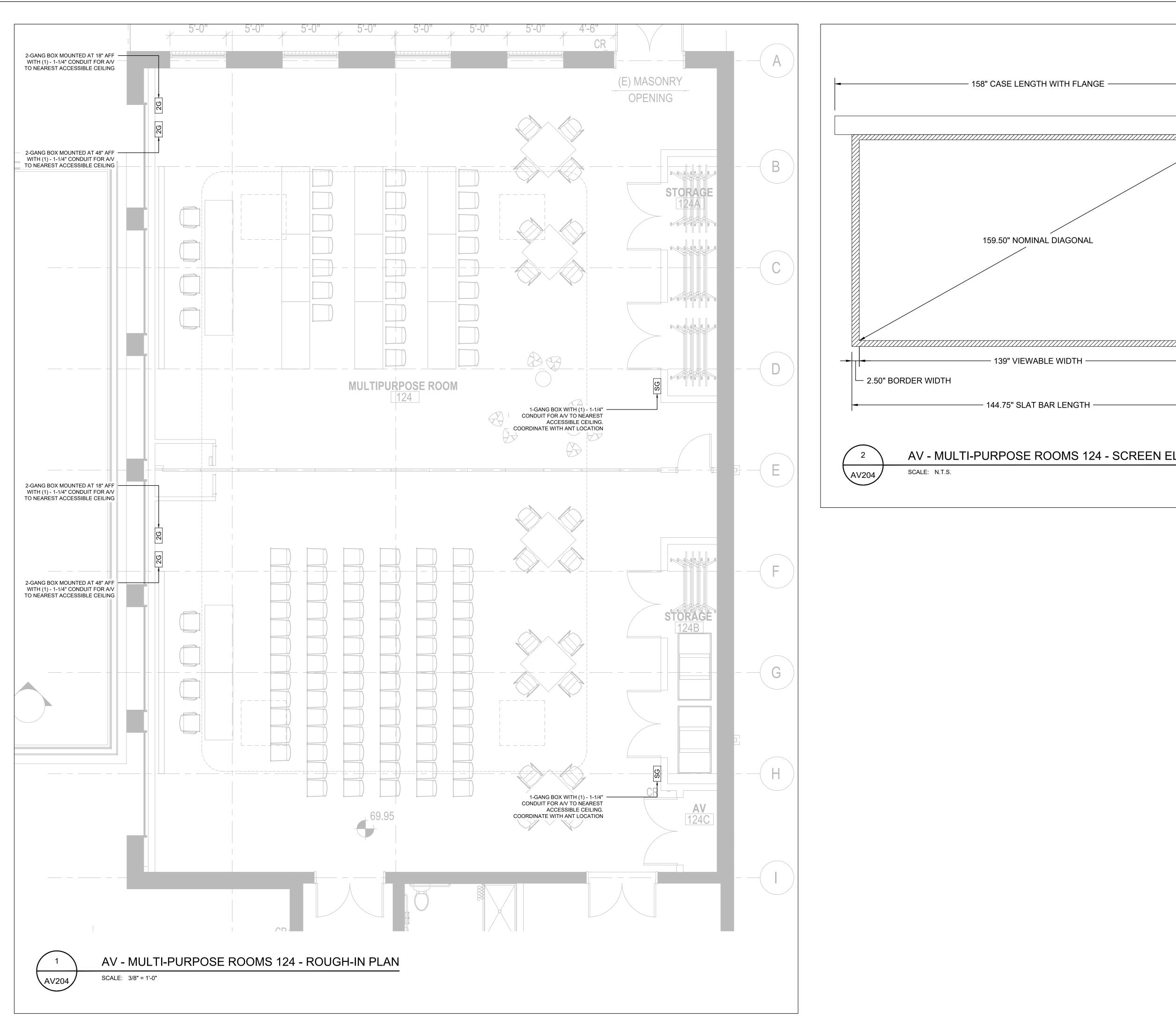
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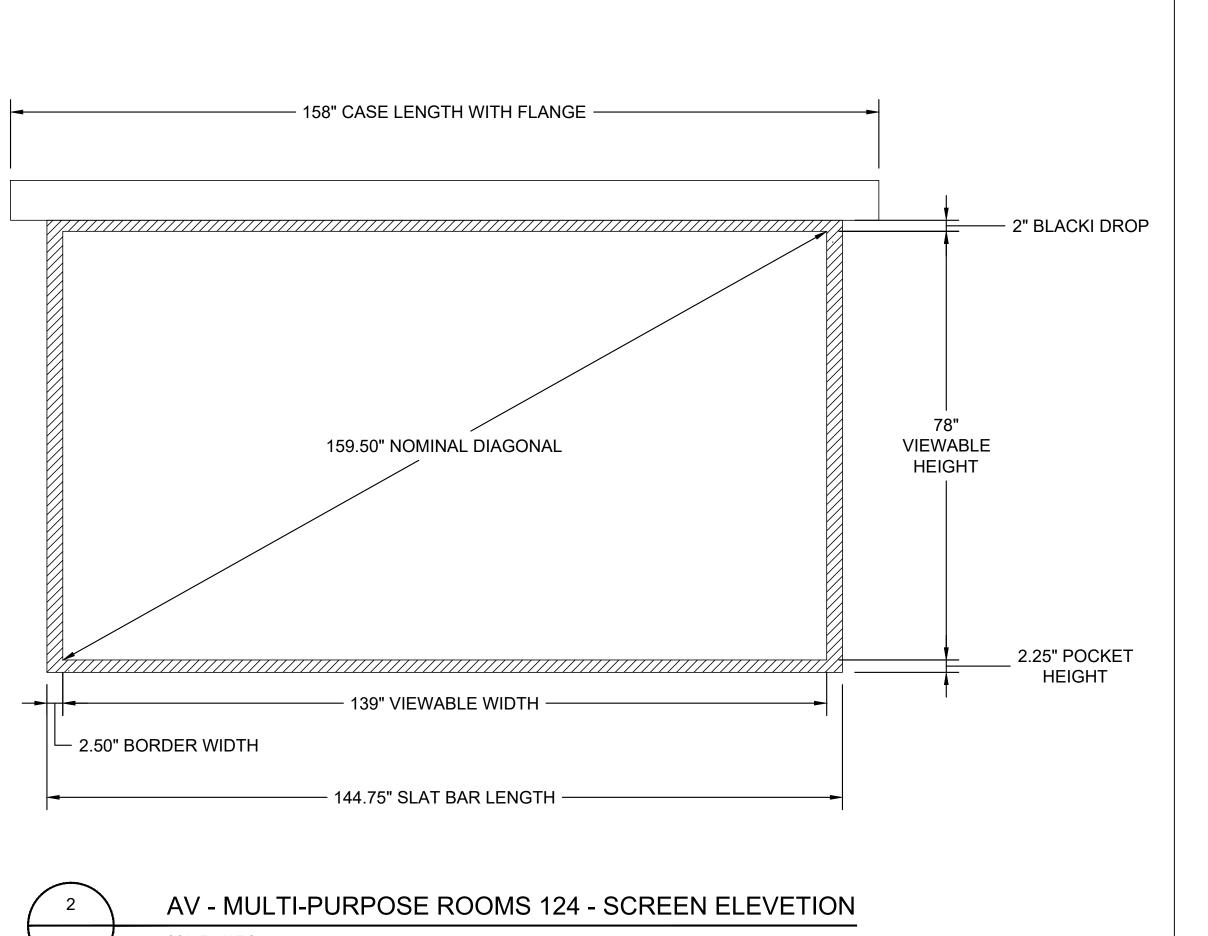
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Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street, Suite 300 Boston, MA 02210 (617) 350 0450

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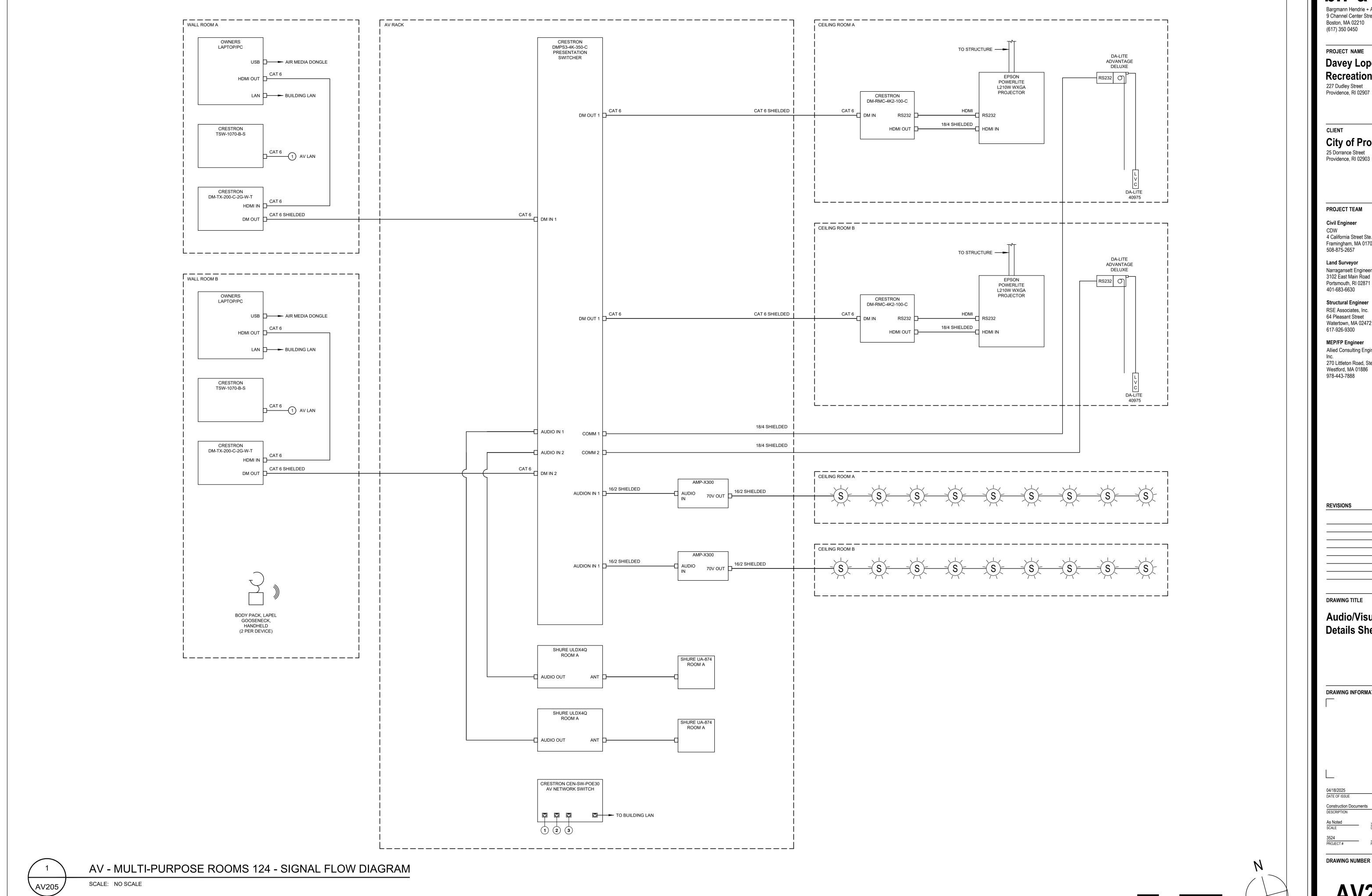
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