SCOPE OF WORK

New Crew Building, Equipment Storage Building and Generator

Carneys Point Rest Area
Carneys Point, Salem, NJ

Project No. T0700-00

STATE OF NEW JERSEY

Honorable Philip D. Murphy, Governor
Honorable Tahesha L. Way, Lt. Governor

DEPARTMENT OF THE TREASURY

Elizabeth Maher Muoio, Treasurer

DIVISION OF PROPERTY MANAGEMENT AND CONSTRUCTION

Christopher Chianese, Director

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I. OBJECTIVE

The objective of this project is to design and construct a new office (crew) building for the staff and a new equipment storage building for their equipment at the Carneys Point Rest Area. The new office building will be built next to the existing trailer. The trailer will be demolished following staff relocation to the new constructed buildings. The existing generator and associated equipment will be replaced with a new generator to ensure the entire rest area remains operational in the event of utility power outage. See **Exhibit 'B'** for the project site locations.

II. CONSULTANT QUALIFICATIONS

A. CONSULTANT & SUB-CONSULTANT PRE-QUALIFICATIONS

The Consultant shall be a firm pre-qualified with the Division of Property Management & Construction (DPMC) in the following discipline(s):

- **P001 Architecture**

The Consultant shall also have in-house capabilities or Sub-Consultants pre-qualified with DPMC in:

- **P002 Electrical Engineering**
- **P003 HVAC Engineering**
- **P004 Plumbing Engineering**
- **P005 Civil Engineering**
- **P007 Structural Engineering**
- **P009 Soils Engineering**
- **P010 Fire Protection Engineering**
- **P011 Environmental Engineering**
- **P015 Land Surveyor**
- **P025 Estimating/ Cost Analysis**

As well as, **any and all** other Architectural, Engineering and Specialty Disciplines necessary to complete the project as described in this Scope of Work (SOW).

III. PROJECT BUDGET

A. CONSTRUCTION COST ESTIMATE (CCE)

The initial Construction Cost Estimate (CCE) for this project is $ 2,000,000

The Consultant shall review this Scope of Work and provide a narrative evaluation and analysis of the accuracy of the proposed project CCE in its technical proposal based on its professional experience and opinion.

B. CURRENT WORKING ESTIMATE (CWE)

The Current Working Estimate (CWE) for this project is $ 2,630,000

The CWE includes the construction cost estimate and all consulting, permitting and administrative fees.

The CWE is the client agency's financial budget based on this project Scope of Work and shall not be exceeded during the design and construction phases of the project unless DPMC approves the change in Scope of Work through a Contract amendment.

C. CONSULTANT'S FEES

The construction cost estimate for this project ***shall not*** be used as a basis for the Consultant's design and construction administration fees. The Consultant's fees shall be based on the information contained in this Scope of Work document and the observations made and/or the additional information received during the pre-proposal meeting.

IV. PROJECT SCHEDULE

A. SCOPE OF WORK DESIGN & CONSTRUCTION SCHEDULE

The following schedule identifies the estimated design and construction phases for this project and the estimated durations.

PROJECT PHASE	**ESTIMATED DURATION (Calendar Days)**
1. Site Access Approvals & Schedule Design Kick-off Meeting	**14**
2. Program Phase	**30**
• *Project Team & DPMC Plan/Code Unit Review & Comment*	14

3. Schematic Design Phase	**60**
• *Project Team & DPMC Plan/Code Unit Review & Comment*	14
4. Design Development Phase	**60**
• *Project Team & DPMC Plan/Code Unit Review & Comment*	14
5. Final Design Phase	**60**
• *Project Team & DPMC Plan/Code Unit Review & Approval*	14
6. Final Design Re-Submission to Address Comments	**7**
• *Project Team & DPMC Plan/Code Unit Review & Approval*	14
7. DCA Submission Plan Review	**30**
8. Permit Application Phase	**7**
• *Issue Plan Release*	14
9. Bid Phase	**42**
10. Award Phase	**28**
11. Construction Phase	**370**
12. Project Close Out Phase	**30**

B. CONSULTANT'S PROPOSED DESIGN & CONSTRUCTION SCHEDULE

The Consultant shall submit a project design and construction schedule with its technical proposal that is similar in format and detail to the schedule depicted in **Exhibit 'A'**. The schedule developed by the Consultant shall reflect its recommended project phases, phase activities, activity durations.

A written narrative shall also be included with the technical proposal explaining the schedule submitted and the reasons why and how it can be completed in the time frame proposed by the Consultant.

This schedule and narrative will be reviewed by the Consultant Selection Committee as part of the evaluation process and will be assigned a score commensurate with clarity and comprehensiveness of the submission.

V. PROJECT SITE LOCATION & TEAM MEMBERS

A. PROJECT SITE ADDRESS

The location of the project site is:

Carneys Point Rest Area
452 South Pennsville-Auburn Road
Carneys Point, New Jersey 08069

See **Exhibit 'B'** for the project site location map.

B. PROJECT TEAM MEMBER DIRECTORY

The following are the names, addresses, and phone numbers of the Project Team members.

1. DPMC Representative:

Name:	Nehad Mohamed, Project Manager
Address:	Division of Property Management & Construction 20 West State Street, 3rd Floor Trenton, NJ 08608-1206
Phone No:	(609) 802-5354
E-Mail:	Nehad.Mohamed@treas.nj.gov

2. Client Agency Representative:

Name:	Chris Sagliocco, Facilities Engineer
Address:	Department of Transportation, Division of Support Services P.O. Box: 600 1035 Parkway Avenue Trenton, New Jersey 08625
Phone No:	(609) 649-5783
E-Mail:	Christopher.Sagliocco@dot.nj.gov

VI. PROJECT DEFINITION

A. BACKGROUND

The Carneys Point Rest Area is located on the east side of the northbound lane of Interstate 295 in Carneys Point Township, Salem County, NJ. The Rest Area improvements are sited between

the truck parking area and the car parking area. Site amenities include extensive plaza area, walkways with connections to both parking areas, picnic area with tables and benches, a vending shelter, and a truck/RV water sanitary dump station. The Welcome Center is open Wednesday through Sunday, from 7:30 AM to 4:00 PM. Portable toilets are provided for use of the motoring public when the Facility is closed.

The staff at the Carneys Point Rest Area reside in an office trailer that is antiquated and insufficient for future staff growth. They also have multiple pieces of equipment including their vehicles used for snow operations that are exposed to the weather as there is only a small garage and shed to store this equipment. See **Exhibit 'C'** for existing photos.

B. FUNCTIONAL DESCRIPTION OF THE BUILDING

The NJDOT is seeking to construct office and equipment storage building(s) with the accommodation of a staff parking area at the Carneys Point Rest Area.

The Consultant shall provide the design and specifications for a new, single story, equipment storage building with mezzanine option and three (3) overhead doors, as well as an office building to occupy eight (8) staff that includes two (2) offices. There is an option to have one combined building for equipment storage and offices. The roof shall match the existing welcome center building's roof. The buildings will be located on the sites shown in **Exhibit 'B'** and some tree removal may be required.

The NJDOT has constructed office buildings and equipment storage buildings at other locations and drawings are included in **Exhibits 'E' & 'F'.** These documents are intended as a reference guide only. There may be variations in the building design due to site and other restrictions.

The existing generator at the site is old and will be replaced with a new generator and associated equipment to back up the entire rest area in the event of a power outage.

VII. CONSULTANT DESIGN RESPONSIBILITIES

A. DESIGN REQUIREMENTS

1. General:

The Consultant shall provide the Design, Construction Administration, Permitting and Bid/Award services to construct the new office building and the new equipment storage building. The Consultant shall provide ideas based on their expertise with the NJDOT and building construction standards and guidelines. The Consultant shall be responsible for designing all the elements needed for the buildings, including site planning, location, foundation and utilities.

2. Roofing System:

Provide a new roofing system for the new DOT building(s) to match the existing welcoming center roof for review and approval by the DOT and project team.

3. Furniture:

Fixed furniture layout plans for the office shall be included.

4. HVAC System:

As guided by the State's Energy Master Plan, the Consultant shall provide a new state of the art HVAC system.

5. Plumbing:

Construction documents shall include the location of all equipment associated with plumbing and related piping components. Separate riser diagrams shall be shown for fuel oil, gas service, sanitary drain and vent system, hot and cold water distribution system and storm drainage system. Equipment connections shall be identified on all schematic and riser diagrams. Include a fixture schedule on the drawings listing each fixture, description, trap & vent sizes, values, and hot and cold water connection pipe sizes.

Include all design details and information required for the proper fire stopping for all floor and wall penetrations of building elements (walls, partitions, etc.).

6. Electrical:

Provide an electrical distribution system for new building(s) and all new site lighting fixtures.

Electrical drawings shall include all supply service equipment, lighting, power, communications, fire alarm, security, and specialized systems. Riser diagrams, showing service equipment, feeders and panels, branch circuits must be shown. Wire sizes, switch and panel schedules shall be provided. Location, capacity, space requirements of all major items or equipment must be indicated.

Lighting features must indicated typical lighting arrangements, types of fixtures, proposed light intensities, emergency and egress lighting. All lighting specified shall be energy efficient and have occupancy sensors where applicable.

6. Soil Investigation:

The consultant shall install soil borings and collect soil and ground water samples. The consultant shall conduct full panel of tests on the soil to characterize it for disposal and test the groundwater for volatile and semi-volatile compounds. The consultant to attach the soil investigation report with the specifications.

7. Fire Detection:

Provide the design and specifications for a complete installation of a building fire alarm and fire protection system for the new crew building.

8. Fire Suppression System:

As an option, the consultant shall provide a design for fire suppression system for the crew building. A water flow test shall be conducted at the site to determine the available water pressure and flow for the proposed suppression system. The water flow test shall be witnessed by DPMC's Plan Review Unit and the results/report shall be submitted to the DPMC Plan Review Unit before the submission of the design drawings.

The fire suppression system design shall include, but not be limited to, complete construction documents showing the layout and sizes of the sprinkler piping and locations of all sprinkler heads on the floor plans of the buildings. Signed and sealed hydraulic calculations, and water pressure data for the fire suppression sprinkler system shall be submitted to the DPMC Plan Review Unit. Fire suppression system/sprinkler shop drawings shall be submitted to DPMC's Plan Review Unit for approval prior to fabrication and installation of the systems.

The consultant shall provide a separate allowance for this optional work in their fee proposal.

9. Generator:

Provide the design and specifications for a new back-up generator and associated equipment to replace the existing generator and ensure the entire rest area remains operational in the event of utility power outage.

The Consultant shall investigate the current electrical loads and proposed loads to determine the new generator's power, size and classification. Its design and specifications shall be part of this scope of work. Industry-recognized manufacturers of the new components shall be specified in the design documents. Items to consider shall include, but not be limited to product reliability and performance, manufacturer's years of service, equipment costs, warranties, guarantees, delivery schedule, compatibility with the existing equipment and related components, physical size, etc.

Note that the names of three "equal" manufacturers shall be identified and included in the design documents for reference. The consultant shall provide a design for the concrete pad for the new generator. The Consultant shall include in their design local annunciator panels and wireless annunciator panels within the facility.

10. Data and Communications System:

The consultant shall provide design for the network, telephone and data communication system for the new building. Construction documents shall include location of the data jacks and wiring circuits for all proposed data and communication system for the new building. Documents shall include the wire sizes, switch and panel schedules, conduits, panels, hangers, supports, mounting brackets, termination outlets, switches, and other related components for the equipment. The location, capacity, and space requirements for all the equipment shall be indicated.

11. Security:

Construction documents shall include wiring, outlet/power connections, support brackets and shelving for security cameras and card readers. Consultant shall determine the location of security cameras and card readers to be installed in coordination with Motorola/Avigilon and DOT Support Services. Contact information will be provided upon award. Construction documents shall include security systems for the new buildings including access control system.

12. Code Updates:

The consultants shall be responsible for updating the design for the any Code and Standards updates as per the DCA/DPMC Code Review during and after the design at no additional cost to the State.

B. SITE WORK

1. Parking Lots & Roadways:

Construction documents shall include paving and parking lots as needed and based on budgetary considerations. Consultant shall, as part of the Program Phase, evaluate and estimate the cost of each proposed item and provide a written report to the Project Team.

Parking lot and roadway surfaces shall be bituminous concrete and shall have appropriate striping, signage and lighting. Concrete curbing shall be installed along the edge of all new roadways and around the perimeter and islands of the parking lots. Handicap curb cuts shall be included at appropriate locations. All grading shall provide appropriate slopes for storm water runoff to curbs, gutters and inlets tied into the existing site drainage system.

All costs associated with evaluating, estimating, preparing written reports and providing design services for repairing and striping parking lots and roadways shall be included in the consultant's lump sum fee proposal.

2. Sidewalks:

Evaluate the path of travel, and any areas requiring access (i.e., new parking areas, etc). Construction documents shall include concrete sidewalks from the parking lot(s) to new buildings and other areas of the site requiring pedestrian or staff access. Incorporate barrier free access ramps and curb cuts, wherever the barrier free path of travel is required.

3. Signage:

Construction documents shall include exterior site signage.

Site signage shall include, but is not limited to, directions, information, travel paths, entrances, use restrictions, handicap parking spaces, speed restrictions, and similar directives.
Propose specifications for signage using a clearly visible sign from roadway. Must have enhanced visibility at night. Directional signage on property directing visitors, deliveries, material drop off, material pick-up, etc. shall be clearly delineated. The exterior signage at the street, shall be illuminated and of a size/shape as determined by the DOT.

4. Site Lighting:

Pole mounted site lighting shall be integrated into the architectural and landscape design for the parking areas, paths, pedestrian sidewalks, stairs, roadways, and other areas or equipment requiring proper illumination for visibility, surveillance and personnel safety. Spacing and heights of the light poles shall ensure proper coverage of the areas illuminated. Lighting levels shall comply with approved design standards and be sufficient to support areas of surveillance. Lamps shall be high efficiency type and have photocell dusk to dawn operational features. Add lighting where new roadways, parking lots, and walkways are added.

5. Secure Fencing & Gate:

Construction documents shall include any agency required secure gates and/or fencing, as necessary.

6. Landscaping and Tree Removal Requirements:

Construction documents shall include a landscaping plan to include, but not limited to, all required seeding, sod, shrubs, bushes, trees, and buffering with adjacent properties where

required. With the removal of trees within the proposed parking areas, the below "No Net Loss Reforestation Act" shall be adhered to if applicable:

No Net Loss Reforestation Act:

The proposed location of the new construction building(s) may require the removal of mature trees. On January 29, 2002 the Department of Environmental Protection issued the NJ No Net Loss Reforestation Act P.L. 1993, c.106 (C.13:1L-14.2), as amended, that requires all State entities that deforest a half-acre or more of forested land will fall under the act and reforestation plans will be mandatory. The Consultant shall address the No Net Loss Reforestation Act in the design documents of this project if required.

7. Storm Water Management:

The Consultant shall evaluate surfaces considered pervious or semi-pervious for the exterior. Storm water management measures for water quality for the project shall meet the requirements of N.J.A.C.7:8 Storm Water Management. Where possible and beneficial, utilization of pervious surfaces shall be a consideration.

Existing storm water drainage infrastructure shall be consider and modified as required to be in compliance with N.J.A.C.7:8 Storm Water Management.

C. SITE GEOTECHNICAL/ENVIRONMENTAL ASSESSMENT

The Consultant shall analyze the soils conditions in the locations of new building(s) to determine the soil classification and engineering properties. This information shall be used in the design of footings/foundations and slabs.

All soil boring/test pit data obtained shall be included in the construction documents for Contractor reference.

Consultant shall estimate the costs to analyze the soils and include that amount in the **"Site Geotechnical Allowance",** refer to paragraph X.B.

All costs associated with managing, coordinating, and administrating sub consultants providing soil testing services shall be included in the consultant's lump sum fee proposal.

D. SITE PLAN

1. Existing Information:

Consultant shall obtain all additional field measurements and record all data necessary to provide an accurate site survey of the existing conditions. Items shall include, but not limited to, any sidewalks, curbing, parking lots and islands, storm drainage inlets, utility manhole covers,

fences, trees, rock formations, site lighting, signage, and other relevant physical landscape features.

2. Site Survey Drawing:

Consultant shall provide a scaled survey drawing that depicts the dimensioned locations of the hardscape, landscape, and landmark features that are to remain, those that are to be removed, and those that are to be constructed.

Identify the property boundary lines on the drawing. Include adjoining highways and streets outside the property lines where appropriate for ingress and egress information. The subdivision drawing is included with the Feasibility Study.

All horizontal control shall be on the New Jersey State Plane Coordinate System (NAD 83) and vertical datum shall be the North American Vertical Datum of 1988 (NAVD 88).

3. Topographic Survey:

Consultant shall obtain all field measurements and record all data necessary to provide an accurate topographic survey of the facility. Surface features shall include, but not be limited to the public streets, alleys, roadways, parking lot surface area, sidewalks and curbing, utility rims, and other appropriate objects.

Consultant shall provide a topographic survey drawing that depicts the location and elevation of the existing and new surface features of the construction site. Contours shall be accurately plotted to an acceptable scale and labeled with spot elevations at high, low, and critical points. Property lines shall be indicated within the construction site, and base lines or random traverse points shall be tied to the existing structures where appropriate. Show datum, benchmark, and north arrow in relation to the property lines. Benchmarks must be well defined and described.

4. Temporary Construction Site:

Construction documents shall provide information on the appropriate drawing(s) that locate all temporary site construction roads, construction office trailer(s), dumpsters, material and equipment storage trailers and Contractor parking areas.
Construction documents shall include requirements for a fence with lockable gates and construction site lighting as applicable.

Temporary utilities shall be provided for the trailers installed by the Contractors.

E. SITE SOIL EROSION AND SEDIMENT CONTROL

Consultant shall submit the Application for Soil Erosion and Sediment Control Plan Certification to the local County Soil Conservation District Office. The submission and design requirements, documentation, drawings, calculations, meetings, etc. required for the application shall conform with the guidelines and procedures published by that District Office.
All costs associated with the preparation of the Application for Soil Erosion and Sediment Control Plan Certification shall be included in the Consultant's lump sum fee proposal.

F. SITE UTILITIES

1. Underground Utilities:

Construction documents shall identify the size and location of all underground utility lines. The utility line sizes, locations and elevations shall be shown on the design drawings for Contractor reference.

2. Utility Capacities:

Consultant shall survey the site utilities to determine their capacity to meet the requirements of this project. Develop a table that identifies the maximum capacity rating based on the capacities anticipated for the new facility utilities.

Provide the most cost effective design to provide the required utilities to the new buildings based on costs of the installation of new utilities that will originate from the main supply lines.

3. Utility Verification Letter:

As applicable, the Consultant shall obtain written verification from all appropriate utility authorities certifying they can provide adequate capacity for the new buildings. Letters pertaining to water, sanitary, gas, electrical and telephone service must be obtained which confirm adequate pressures, flows, specific consumption or loads and approximate date of service.

Identify the extent of work to be done by the utility provider, the utility approvals required for the connection points, available rebates, meters and pit requirements, and whether there will be any fees to be paid by the Contractor to the Utility Company. All termination and/or tie-in fees required by the affected Utility Companies shall be covered by an allowance within the construction documents.

4. Electric & Switch Gear:

Include schematic drawings of the electric distribution system of the facility indicating all components of the distribution system including, but not limited to, panels, subpanels, breakers, transformers, meters and lines. Consultant shall coordinate with the electrical utility company representatives as required for service improvements.

5. Sanitary Sewer System:

Construction documents shall include any outside work as applicable. Evaluate and incorporate design details to address any site sanitary issues as identified.

6. Gas Supply & Distribution System:

The Consultant shall determine if gas supply to the new building is compatible with the State's Energy Master Plan. If so, construction documents shall provide adequate gas service, if available, to the new buildings including details for tie-in to new equipment. Include schematic drawings indicating the size and location of all gas line components including, but not limited to, piping, valves and meters. Consultant shall coordinate with Gas Utility representatives as required for service improvements.

Consultant shall determine, and include in the construction documents, any requirements for the construction contractor to coordinate with the gas utility including, but not limited to, inspections, termination and/or tie-in fees, construction contract limit lines, material and equipment to be provided by both parties.

7. Water Service:

Construction documents shall provide adequate water service to the facility for domestic and fire protection purposes.

Design as necessary, including details for tie-in to the new fire protection system. Consultant shall coordinate with water utility representatives as required for service improvements.

Consultant shall determine, and include in the construction documents, any requirements for the construction contractor to coordinate with the water utility including, but not limited to, inspections, termination and/or tie-in fees, construction contract limit lines, material and equipment to be provided by both parties.

8. Data and Communication System:

The consultant shall provide a design for the service to the new building for the network data and communication system.

G. DEMOLITION AND SITE EVALUATION

A detached garage and shed will not be demolished. The trailer will be demolished after finishing the new construction and relocating.

Any grading or site improvements to address construction trailer parking for the new building and general parking (staff/visitors) shall address any grading changes and soil erosion/storm water management compliance, as required. The facility parking lot design shall be shall be coordinated with the DOT and the project team at the initial design stages.

Drawings and specifications will be reviewed by the DPMC Plan Review Unit and the bid clearance form will be signed stating that the permit will be issued upon receipt of all prior approvals and permit applications from the Contractor. Plans and specifications will be held for stamping until such time that the permits are granted. The project will be bid and awarded without stamped documents from the DPMC Plan Review Unit.

H. DESIGN MEETINGS & PRESENTATIONS

1. Design Meetings:

Conduct the appropriate number of review meetings with the Project Team members during each design phase of the project so they may determine if the project meets their requirements, question any aspect of the contract deliverables, and make changes where appropriate. The Consultant shall describe the philosophy and process used in the development of the design criteria and the various alternatives considered to meet the project objectives. Selected studies, sketches, cost estimates, schedules, and other relevant information shall be presented to support the design solutions proposed. Special considerations shall also be addressed such as: Contractor site access limitations, utility shutdowns and switchover coordination, phased construction and schedule requirements, security restrictions, available swing space, material and equipment delivery dates, etc.

It shall also be the responsibility of the Consultant to arrange and require all critical Sub-Consultants to be in attendance at the design review meetings.

Record the minutes of each design meeting and distribute within three (3) calendar days to all attendees and those persons specified to be on the distribution list by the Project Manager.

2. Design Presentations:

The minimum number of design presentations required for each phase of this project is identified below for reference:

Program Phase: One (1) oral presentation at phase completion.

Schematic Phase: One (1) oral presentation at phase completion.

Design Development Phase: One (1) oral presentation at phase completion.

Final Design Phase: One (1) oral presentation at phase completion.

I. EXISTING DOCUMENTATION

Copies of the following documents will be provided to each Consulting firm at the pre-proposal meeting to assist in the bidding process.

- (T0593: NJDOT McKee City Maintenance Yard New Office Building, dated: January 8th, 2021, by: Ronald A. Sebring Associates, LLC)
- (T0496: Deptford, Lawrence & Pomona Storage Buildings: November 25th, 2015, by: Robert J. Romano)

Review these documents and any additional information that may be provided at a later date such as reports, studies, surveys, equipment manuals, as-built drawings, etc. The State does not attest to the accuracy of the information provided and accepts no responsibility for the consequences of errors by the use of any information and material contained in the documentation provided. It shall be the responsibility of the Consultant to verify the contents and assume full responsibility for any determination or conclusion drawn from the material used. If the information provided is insufficient, the Consultant shall take the appropriate actions necessary to obtain the additional information required.

All original documentation shall be returned to the provider at the completion of the project.

VIII. PERMITS & APPROVALS

A. NJ UNIFORM CONSTRUCTION CODE PLAN REVIEW AND PERMIT

The project construction documents must comply with the latest adopted edition of the NJ Uniform Construction Code (NJUCC).

The latest NJUCC Adopted Codes and Standards can be found at:

http://www.state.nj.us/dca/divisions/codes/codreg/

1. NJ Uniform Construction Code (NJUCC) Plan Review

Consultant shall estimate the cost of the NJUCC Plan Review by DCA and include that amount in their fee proposal line item entitled **"Plan Review and Permit Fee Allowance"**, refer to paragraph X.A.

Upon approval of the Final Design Phase Submission by DPMC, the Consultant shall submit the construction documents to the Department of Community Affairs (DCA), Bureau of Construction Project Review to secure a complete plan release.
As of July 25, 2022, the Department of Community Affairs (DCA) is only accepting digital signatures and seals issued from a third party certificate authority.

Procedures for submission to the DCA Plan Review Unit can be found at:

https://www.state.nj.us/dca/divisions/codes/forms/pdf_bcpr/pr_app_guide.pdf

Consultant shall complete the "Project Review Application" and include the following on Block 5 as the "Owner's Designated Agent Name":

Joyce Spitale, DPMC
PO Box 235
Trenton, NJ 08625-0235
Joyce.Spitale@treas.nj.gov 609-943-5193

The Consultant shall complete the NJUCC "Plan Review Fee Schedule", determine the fee due and pay the NJUCC Plan Review fees, refer to Paragraph X.A.

The NJUCC "Plan Review Fee Schedule" can be found at:

http://www.state.nj.us/dca/divisions/codes/forms/pdf_bcpr/pr_fees.pdf

2. NJ Uniform Construction Code Permit

Upon receipt of a complete plan release from the DCA Bureau of Construction Project Review, the Consultant shall complete the NJUCC permit application and all applicable technical sub-code sections. The "Agent Section" of the application and certification section of the building sub-code section shall be signed. These documents, with **six (6) sets of DCA approved, signed and sealed construction documents** shall be forwarded to the DPMC Project Manager.

The Consultant may obtain copies of all NJUCC permit applications at the following website:

https://www.nj.gov/dca/divisions/codes/resources/constructionpermitforms.html

All other required project permits shall be obtained and paid for by the Consultant in accordance with the procedures described in Paragraph VIII.B.

3. Prior Approval Certification Letters:

The issuance of a construction permit for this project may be contingent upon acquiring various "prior approvals" as defined by N.J.A.C. 5:23-1.4. It is the Consultant's responsibility to determine which prior approvals, if any, are required. The Consultant shall submit a general certification letter to the DPMC Plan & Code Review Unit Manager during the Permit Phase of this project that certifies all required prior approvals have been obtained.

In addition to the general certification letter discussed above, the following specific prior approval certification letters, where applicable, shall be submitted by the Consultant to the DPMC Plan & Code Review Unit Manager: Soil Erosion & Sediment Control, Water & Sewer Treatment Works Approval, Coastal Areas Facilities Review, Compliance of Underground Storage Tank Systems with N.J.A.C. 7:14B, Pinelands Commission, Highlands Council, Well Construction and Maintenance; Sealing of Abandoned Wells with N.J.A.C. 7:9D, Certification that all utilities have been disconnected from structures to be demolished, Board of Health Approval for Potable Water Wells, Health Department Approval for Septic Systems. It shall be noted that in accordance with N.J.A.C. 5:23-2.15(a)5, a permit cannot be issued until the letter(s) of certification is received.

4. Multi-building or Multi-site Permits:

A project that involves many buildings and/or sites requires that a separate permit shall be issued for each building or site. The Consultant must determine the construction cost estimate for *each* building and/or site location and submit that amount where indicated on the permit application.

5. Special Inspections:

In accordance with the requirements of the New Jersey Uniform Construction Code N.J.A.C. 5:23-2.20(b), Bulletin 03-5 and Chapter 17 of the International Building Code, the Consultant shall be responsible for the coordination of all special inspections during the construction phase of the project.

Bulletin 03-5 can be found at:

http://www.state.nj.us/dca/divisions/codes/publications/pdf_bulletins/b_03_5.pdf

a. Definition:

Special inspections are defined as an independent verification by a certified special inspector for **Class I buildings and smoke control systems in any class building**. The special inspector is to be independent from the Contractor and responsible to the Consultant so that there is no possible conflict of interest.

Special inspectors shall be certified in accordance with the requirements in the New Jersey Uniform Construction Code.

b. Responsibilities:

The Consultant shall submit with the permit application, a list of special inspections and the agencies or special inspectors that will be responsible to carry out the inspections required for the project. The list shall be a separate document, on letter head, signed and sealed.

B. OTHER REGULATORY AGENCY PERMITS, CERTIFICATES AND APPROVALS

The Consultant shall identify and obtain all other State Regulatory Agency permits, certificates, and approvals that will govern and affect the work described in this Scope of Work. An itemized list of these permits, certificates, and approvals shall be included with the Consultant's Technical Proposal and the total amount of the application fees should be entered in the Fee Proposal line item entitled, **"Plan Review and Permit Fee Allowance."**

The Consultant may refer to the Division of Property Management and Construction "Procedures for Architects and Engineers Manual", Paragraph "**9. REGULATORY AGENCY APPROVALS"** which presents a compendium of State permits, certificates, and approvals that may be required for this project.

The Consultant shall determine the appropriate phase of the project to submit the permit application(s) in order to meet the approved project milestone dates.

Where reference to an established industry standard is made, it shall be understood to mean the most recent edition of the standard unless otherwise noted. If an industry standard is found to be revoked, or should the standard have undergone substantial change or revision from the time that the Scope of Work was developed, the Consultant shall comply with the most recent edition of the standard.

IX. ENERGY REBATE AND INCENTIVE PROGRAMS

The Consultant shall review any and all programs on the State and Federal level to determine if any proposed upgrades to the mechanical and/or electrical equipment and systems for this project qualify for approved rebates and incentives.

The Consultant shall review the programs available on the "New Jersey's Clean Energy Program" website at: http://www.njcleanenergy.com as well as federal websites and New Jersey electric and gas utility websites to determine if and how they can be applied to this project.

The Consultant shall identify all applicable rebates and incentives in their technical proposal and throughout the design phase.

The Consultant shall be responsible to complete the appropriate registration forms and applications, provide any applicable worksheets, manufacturer's specification sheets, calculations, attend meetings, and participate in all activities with designated representatives of the programs and utility companies to obtain the entitled financial incentives and rebates for this project.

All costs associated with this work shall be estimated by the Consultant and the amount included in the base bid of its fee proposal.

X. ALLOWANCES

A. PLAN REVIEW AND PERMIT FEE ALLOWANCE

The Consultant shall obtain and pay for all of the project permits in accordance with the guidelines identified below.

1. Permits:

The Consultant shall determine the various permits, certificates, and approvals required to complete this project.

2. Permit Costs:

The Consultant shall estimate the application fee costs for all of the required project permits, certificates, and approvals (excluding the NJ Uniform Construction Code permit) and include that amount in its fee proposal line item entitled **"Plan Review and Permit Fee Allowance"**. A breakdown of each permit and application fee shall be attached to the fee proposal for reference.

NOTE: The NJ Uniform Construction Code permit is excluded since it will be paid for by the State.

3. Applications:

The Consultant shall complete and submit all permit applications to the appropriate permitting authorities and the costs shall be paid from the Consultant's permit fee allowance. A copy of the application(s) and the original permit(s) obtained by the Consultant shall be given to the DPMC Project Manager for distribution during construction.

4. Consultant Fee:

The Consultant shall determine what is required to complete and submit the permit applications, obtain supporting documentation, attend meetings, etc., and include the total cost in the base bid of its fee proposal under the "Permit Phase" column.

Any funds remaining in the permit allowance will be returned to the State at the close of the project.

B. SITE GEOTECHNICAL ALLOWANCE

Consultant shall estimate the costs to complete the soils analysis and soils contamination testing and include that amount on their fee proposal line item entitled **"Site Geotechnical Allowance",** refer to paragraph VII.C.

Consultant shall attach a detailed cost breakdown sheet for use by DPMC during the proposal review and potential fee negotiations. The cost breakdown sheet shall include a description of the tasks to be performed and the estimated cost of each task.

Any funds remaining in the Site Geotechnical Allowance will be returned to the State at the close of the project.

XI. SOW SIGNATURE APPROVAL SHEET

This Scope of Work shall not be considered a valid document unless all signatures appear in each designated area below.

The client agency approval signature on this page indicates that they have reviewed the design criteria and construction schedule described in this project Scope of Work (including the subsequent contract deliverables and exhibits) and verifies that the work will not conflict with the existing or future construction activities of other projects at the site.

SOW PREPARED BY: Cecile Guirguis 08-19-2024
CECILE GUIRGUIS, PROJECT MANAGER DATE
DPMC PROJECT PLANNING & INITIATION

SOW APPROVED BY: James Wright 8/19/2024
JAMES WRIGHT, MANAGER DATE
DPMC PROJECT PLANNING & INITIATION

SOW APPROVED BY: Dennis W. Meszaros 08/26/2024
DENNIS MESZAROS, SENIOR EXECUTIVE SERVICE DATE
DEPARTMENT OF TRANSPORTATION REPRESENTATIVE

SOW APPROVED BY: FOR 08.29.2024
NEHAD MOHAMED, PROJECT MANAGER DATE
DPMC PROJECT MANAGEMENT GROUP

SOW APPROVED BY: Jeanette M Barnard 9.27.24
JEANETTE BARNARD, DEPUTY DIRECTOR DATE
DIV PROPERTY MGT & CONSTRUCTION

XII. CONTRACT DELIVERABLES

The following are checklists listing the Contract Deliverables that are required at the completion of each phase of this project. The Consultant shall refer to the DPMC publication entitled "Procedures for Architects and Engineers," 3.0 Edition, dated September 2022 available at https://www.nj.gov/treasury/dpmc/Assets/Files/ProceduresforArchitectsandEngineers.pdf for a detailed description of the deliverables required for each submission item listed. References to the applicable paragraphs of the "Procedures for Architects and Engineers" are provided.

Note that the Deliverables Checklist may include submission items that are "S.O.W. Specific Requirements". These requirements will be defined in the project specific scope of work and included on the deliverables checklist.

This project includes the following phases with the deliverables noted as "Required by S.O.W" on the Deliverables Checklist:

- **PROGRAM PHASE**
- **SCHEMATIC DESIGN PHASE**
- **DESIGN DEVELOPMENT PHASE**
- **FINAL DESIGN PHASE**
- **PERMIT APPLICATION PHASE**
- **BIDDING AND CONTRACT AWARD**
- **CONSTRUCTION PHASE**
- **PROJECT CLOSE-OUT PHASE**

XIII. EXHIBITS

A. SAMPLE PROJECT SCHEDULE FORMAT
B. PROJECT SITE LOCATION MAP
C. PHOTOS
D. SITE PLAN
E. OFFICE BUILDING REFERENCE DRAWINGS
F. EQUIPMENT STOTAGE BUILDINGS REFERENCE DRAWINGS

END OF SCOPE OF WORK

Deliverables Checklist
Program Phase

A/E Name: _____

A/E Manual Reference	Submission Item	Required by S.O.W.		Previously Submitted		Enclosed	
		Yes	No	Yes	No	Yes	No
12.3.1.	A/E Statement of Site Visit						
12.3.2.	Narrative Description of Project						
12.3.3.	Building Code Information Questionnaire						
12.3.4.	Space Analysis						
12.3.5.	Special Features						
12.3.6.	Catalog Cuts						
12.3.7.	Site Evaluation						
12.3.8.	Subsurface Investigation						
12.3.9.	Surveys						
12.3.10.	Fine Arts Inclusion						
12.3.11.	Design Rendering						
12.3.12.	Regulatory Approvals						
12.3.13.	Utility Availability						
12.3.14.	Diagrammatic Sketches/Drawings (6 Sets)						
12.3.15.	Specifications (6 Sets)						
12.3.16.	Current Working Estimate/Cost Analysis						
12.3.17.	Project Schedule						
12.3.18.	Formal Presentation						
12.3.19.	Scope of Work Compliance Statement						
12.3.20.	Program Phase Deliverables Checklist						
S.O.W. Reference	**S.O.W. Specific Requirements**						

This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

Deliverables Checklist
Schematic Design Phase

A/E Name: _____

A/E Manual Reference	Submission Item	Required by S.O.W.		Previously Submitted		Enclosed	
		Yes	No	Yes	No	Yes	No
13.4.1.	A/E Statement of Site Visit						
13.4.2.	Narrative Description of Project						
13.4.3.	Building Code Information Questionnaire						
13.4.4.	Space Analysis						
13.4.5.	Special Features						
13.4.6.	Catalog Cuts						
13.4.7.	Site Evaluation						
13.4.8.	Subsurface Investigation						
13.4.9.	Surveys						
13.4.10.	Arts Inclusion						
13.4.11.	Design Rendering						
13.4.12.	Regulatory Approvals						
13.4.13.	Utility Availability						
13.4.14.	Drawings (6 Sets)						
13.4.15.	Specifications (6 Sets)						
13.4.16.	Current Working Estimate/Cost Analysis						
13.4.17.	Project Schedule						
13.4.18.	Formal Presentation						
13.4.19.	Scope of Work Compliance Statement						
13.4.20.	Schematic Design Phase Deliverables Checklist						
S.O.W. Reference	**S.O.W. Specific Requirements**						

This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

DPMC Project No.: T0700-00

Deliverables Checklist
Design Development Phase

A/E Name: _____

A/E Manual Reference	Submission Item	Required by S.O.W.		Previously Submitted		Enclosed	
		Yes	No	Yes	No	Yes	No
14.4.1.	A/E Statement of Site Visit						
14.4.2.	Narrative Description of Project						
14.4.3.	Building Code Information Questionnaire						
14.4.4.	Space Analysis						
14.4.5.	Special Features						
14.4.6.	Catalog Cuts						
14.4.7.	Site Evaluation						
14.4.8.	Subsurface Investigation						
14.4.9.	Surveys						
14.4.10.	Arts Inclusion						
14.4.11.	Design Rendering						
14.4.12.	Regulatory Approvals						
14.4.13.	Utility Availability						
14.4.14.	Drawings (6 Sets)						
14.4.15.	Specifications (6 Sets)						
14.4.16.	Current Working Estimate/Cost Analysis						
14.4.17.	Project Schedule						
14.4.18.	Formal Presentation						
14.4.19.	Plan Review/Scope of Work Compliance Statement						
14.4.20.	Design development Phase Deliverables Checklist						
S.O.W. Reference	**S.O.W. Specific Requirements**						

This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

Deliverables Checklist
Final Design Phase

A/E Name: _____

A/E Manual Reference	Submission Item	Required by S.O.W.		Previously Submitted		Enclosed	
		Yes	No	Yes	No	Yes	No
15.4.1.	A/E Statement of Site Visit						
15.4.2.	Narrative Description of Project						
15.4.3.	Building Code Information Questionnaire						
15.4.4.	Space Analysis						
15.4.5.	Special Features						
15.4.6.	Catalog Cuts						
15.4.7.	Site Evaluation						
15.4.8.	Subsurface Investigation						
15.4.9.	Surveys						
15.4.10.	Arts Inclusion						
15.4.11.	Design Rendering						
15.4.12.	Regulatory Approvals						
15.4.13.	Utility Availability						
15.4.14.	Drawings (6 Sets)						
15.4.15.	Specifications (6 Sets)						
15.4.16.	Current Working Estimate/Cost Analysis						
15.4.17.	Project Schedule						
15.4.18.	Formal Presentation						
15.4.19.	Plan Review/Scope of Work Compliance Statement						
15.4.20.	Final Design Phase Deliverables Checklist						
S.O.W. Reference	**S.O.W. Specific Requirements**						

This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

DPMC Project No.: T0700-00

Deliverables Checklist
Permit Application Phase

A/E Name: _____

A/E Manual Reference	Submission Item	Required by S.O.W.		Previously Submitted		Enclosed	
		Yes	No	Yes	No	Yes	No
16.1.	N.J. UCC Permit Application						
16.4.	Drawings, Signed and Sealed (6 Sets)						
16.5.	Specifications, Signed and Sealed (6 Sets)						
16.6.	Current Working Estimate/Cost Analysis						
16.7.	Project Schedule						
16.8.	Plan Review/Scope of Work Compliance Statement						
16.9.	Permit Application Phase Deliverables Checklist						
S.O.W. Reference	**S.O.W. Specific Requirements**						

This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC Project Manager the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

DPMC Project No.: T0700-00

Deliverables Checklist
Bidding and Contract Award Phase

A/E Name: _____

A/E Manual Reference	Submission Item	Required by S.O.W.		Previously Submitted		Enclosed	
		Yes	No	Yes	No	Yes	No
17.1.1.	Notice of Advertising						
17.1.2.	Bid Proposal Form						
17.1.3.	Bid Clearance Form						
17.1.4.	Drawings (6 Sets)						
17.1.5.	Specifications (6 Sets)						
17.1.6.	Construction Schedule						
17.3	Pre-Bid Conference/Mandatory Site Visit						
17.3.1.	Meeting Minutes						
17.4	Bulletins						
17.5	Post Bid Meeting						
17.6.	Contract Award "Letter of Recommendation"						
17.8.	Bid Protests - Hearings						
17.9.	Bidding and Contract Award Phase Deliverables Checklist						
S.O.W. Reference	**S.O.W. Specific Requirements**						

This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

Deliverables Checklist
Construction Phase

A/E Name: _____

A/E Manual Reference	Submission Item	Required by S.O.W.		Previously Submitted		Enclosed	
		Yes	No	Yes	No	Yes	No
18.2.	Pre-Construction Meeting						
18.3.	Submittal Log						
18.4.	Construction Schedule						
18.5.	Project Progress Meetings						
18.7.	Contractor's Invoicing and Payment Process						
18.8.	Contractor Submittals						
18.10.	Testing						
18.11.	Shop Drawings (6 Sets)						
18.12.	As-Built & Record Set Drawings (6 Sets)						
18.13.	Change Orders						
18.14.	Construction Photographs						
18.15.	Field Observations						
18.17.	Construction Phase Deliverables Checklist						
S.O.W. Reference	**S.O.W. Specific Requirements**						

This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

Deliverables Checklist
Project Close-Out Phase

A/E Name: _____

A/E Manual Reference	Submission Item	Required by S.O.W.		Previously Submitted		Enclosed	
		Yes	No	Yes	No	Yes	No
19.3.	Development of Punch List and Inspection Reports						
19.5.	Determination of Substantial Completion						
19.6.	Correction/Completion of Punch List						
19.7.	Submission of Close-Out Documentation						
19.7.1.	As-Built and Record Sets of Drawing (6 Sets)						
19.8.	Final Payment						
19.9.1.	Contractors Final Payment						
19.9.2.	A/E's Final Payment						
19.10.	Project Close-Out Phase Deliverables Checklist						
S.O.W. Reference	**S.O.W. Specific Requirements**						

This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

February 7, 1997
Rev.: January 29, 2002

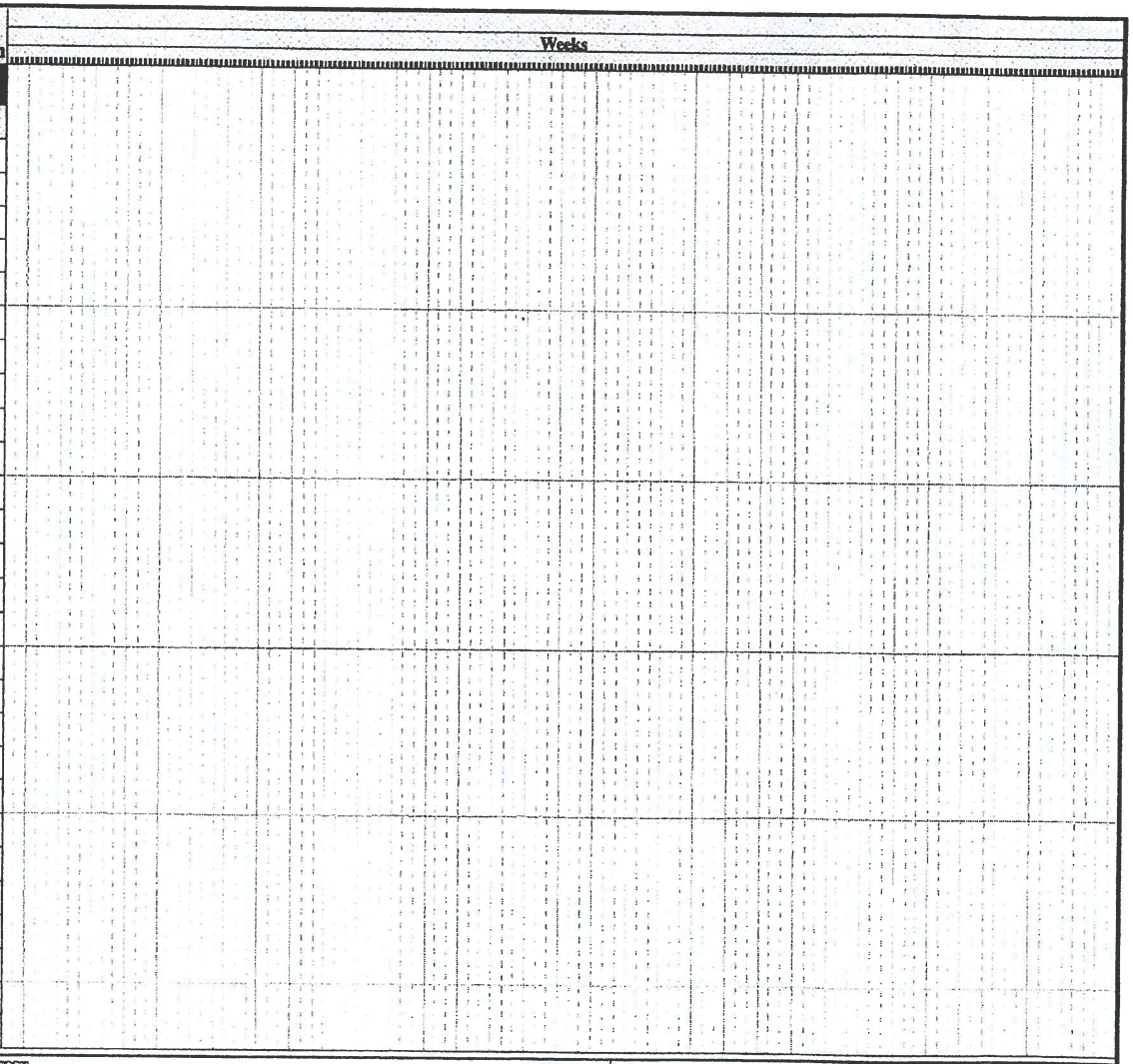
Responsible Group Code Table

The codes below are used in the schedule field "GRP" that identifies the group responsible for the activity. The table consists of groups in the Division of Property Management & Construction (DPMC), as well as groups outside of the DPMC that have responsibility for specific activities on a project that could delay the project if not completed in the time specified. For reporting purposes, the groups within the DPMC have been defined to the supervisory level of management (i.e., third level of management, the level below the Associate Director) to identify the "functional group" responsible for the activity.

CODE	DESCRIPTION	REPORTS TO ASSOCIATE DIRECTOR OF:
CM	Contract Management Group	Contract Management
CA	Client Agency	N/A
CSP	Consultant Selection and Prequalification Group	Technical Services
A/E	Architect/Engineer	N/A
PR	Plan Review Group	Technical Services
CP	Construction Procurement	Planning & Administration
CON	Construction Contractor	N/A
FM	Financial Management Group	Planning & Administration
OEU	Office of Energy and Utility Management	N/A
PD	Project Development Group	Planning & Administration

EXHIBIT 'A'

Activity ID	Description	Rspn
<PROJ>		
Design		
CV3001	Schedule/Conduct Predesign/Project Kick-Off Mtg.	CM
CV3020	Prepare Program Phase Submittal	AE
CV3021	Distribute Program Submittal for Review	CM
CV3027	Prepare & Submit Project Cost Analysis (DPMC-38)	CM
CV3022	Review & Approve Program Submittal	CA
CV3023	Review & Approve Program Submittal	PR
CV3024	Review & Approve Program Submittal	CM
CV3025	Consolidate & Return Program Submittal Comments	CM
CV3030	Prepare Schematic Phase Submittal	AE
CV3031	Distribute Schematic Submittal for Review	CM
CV3037	Prepare & Submit Project Cost Analysis (DPMC-38)	CM
CV3032	Review & Approve Schematic Submittal	CA
CV3033	Review & Approve Schematic Submittal	PR
CV3034	Review & Approve Schematic Submittal	CM
CV3035	Consolidate & Return Schematic Submittal Comment	CM
CV3040	Prepare Design Development Phase Submittal	AE
CV3041	Distribute D. D. Submittal for Review	CM
CV3047	Prepare & Submit Project Cost Analysis (DPMC-38)	CM
CV3042	Review & Approve Design Development Submittal	CA
CV3043	Review & Approve Design Development Submittal	PR
CV3044	Review & Approve Design Development Submittal	CM
CV3045	Consolidate & Return D.D. Submittal Comments	CM
CV3050	Prepare Final Design Phase Submittal	AE
CV3051	Distribute Final Design Submittal for Review	CM
CV3052	Review & Approve Final Design Submittal	CA
CV3053	Review & Approve Final Design Submittal	PR
CV3054	Review Final Design Submitl for Constructability	OCS



NOTE:
Refer to section "IV Project Schedule" of the Scope of Work for contract phase durations.

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DBCA - TEST

Sheet 1 of 3

Bureau of Design & Construction Services

EXHIBIT 'A'

Activity ID	Description	Rspn	Weeks
CV3055	Review & Approve Final Design Submittal	CM	
CV3056	Consolidate & Return Final Design Comments	CM	
CV3060	Prepare & Submit Permit Application Documents	AE	
CV3068	Prepare & Submit Bidding Cost Analysis (DPMC-38)	CM	
Plan Review-Permit Acquisition			
CV4001	Review Constr. Documents & Secure UCC Permit	PR	
CV4010	Provide Funding for Construction Contracts	CA	
CV4020	Secure Bid Clearance	CM	
Advertise-Bid-Award			
CV5001	Advertise Project & Bid Construction Contracts	CP	
CV5010	Open Construction Bids	CP	
CV5011	Evaluate Bids & Prep. Recommendation for Award	CM	
CV5012	Evaluate Bids & Prep. Recommendation for Award	AE	
CV5014	Complete Recommendation for Award	CP	
CV5020	Award Construction Contracts/Issue NTP	CP	
Construction			
CV6000	Project Construction Start/Issue NTP	CM	
CV6001	Contract Start/Contract Work (25%) Complete	CON	
CV6002	Preconstruction Meeting	CM	
CV6003	Begin Preconstruction Submittals	CON	
CV6004	Longest Lead Procurement Item Ordered	CON	
CV6005	Lead Time for Longest Lead Procurement Item	CON	
CV6006	Prepare & Submit Shop Drawings	CON	
CV6007	Complete Construction Submittals	CON	
CV6011	Roughing Work Start	CON	
CV6012	Perform Roughing Work	CON	
CV6010	Contract Work (50%+) Complete	CON	
CV6013	Longest Lead Procurement Item Delivered	CON	
CV6020	Contract Work (75%) Complete	CON	

NOTE:
Refer to section "IV Project Schedule" of the Scope of Work for contract phase durations.

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Sheet 2 of 3

Bureau of Design & Construction Services

EXHIBIT 'A'

Activity ID	Description	Rspn	Weeks
CV6014	Roughing Work Complete	CON	
CV6021	Interior Finishes Start	CON	
CV6022	Install Interior Finishes	CON	
CV6030	Contract Work to Substantial Completion	CON	
CV6031	Substantial Completion Declared	CM	
CV6075	Complete Deferred Punch List/Seasonal Activities	CON	
CV6079	Project Construction Complete	CM	
CV6080	Close Out Construction Contracts	CM	
CV6089	Construction Contracts Complete	CM	
CV6090	Close Out A/E Contract	CM	
CV6092	Project Completion Declared	CM	

NOTE:
Refer to section "IV Project Schedule" of the Scope of Work for contract phase durations.

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DBCA - TEST

Sheet 3 of 3

Bureau of Design & Construction Services

EXHIBIT 'A'

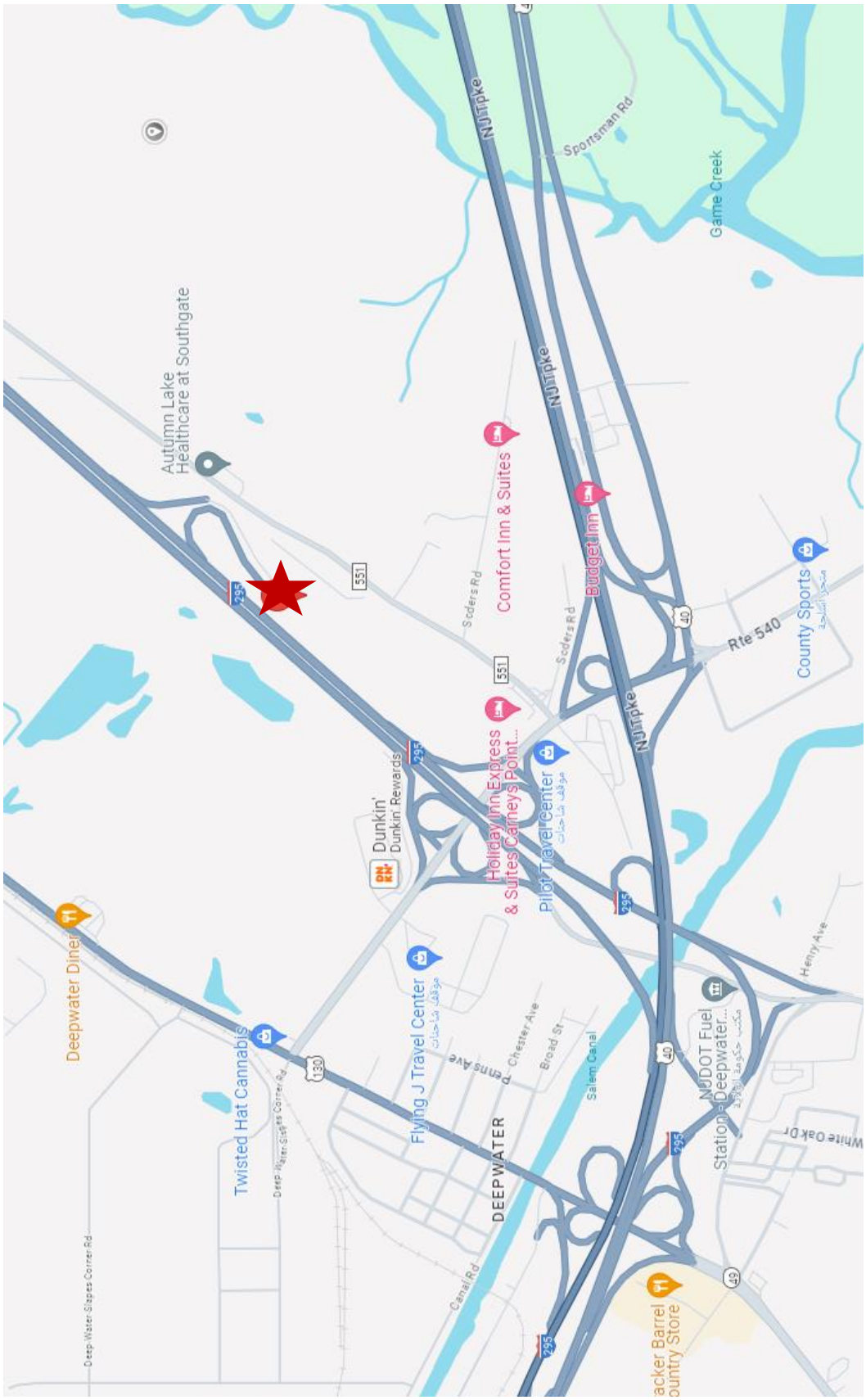

NJTpke
Sportsman Rd
Game Creek
Autumn Lake Healthcare at Southgate
295
551
Soders Rd
Comfort Inn & Suites
Budget Inn
Rte 540
40
County Sports
Holiday Inn Express & Suites Cameys Point...
Pilot Travel Center
Dunkin' Dunkin' Rewards
Deepwater Diner
Twisted Hat Cannabis
130
Flying J Travel Center
Penns Ave
Chester Ave
Broad St
Salem Canal
DEEPWATER
Canal Rd
Deep Water Slapes Corner Rd
NJDOT Fuel Station - Deepwater...
Henry Ave
White Oak Dr
49
Barrel Country Store

EXHIBIT 'B'


452 S Pennsville Auburn Rd
I-295 Parking
Rest Area
Genoa Healthcare
Soders Rd
S Pennsville Auburn Rd
551
295
Image © 2024 Airbus
Google Earth

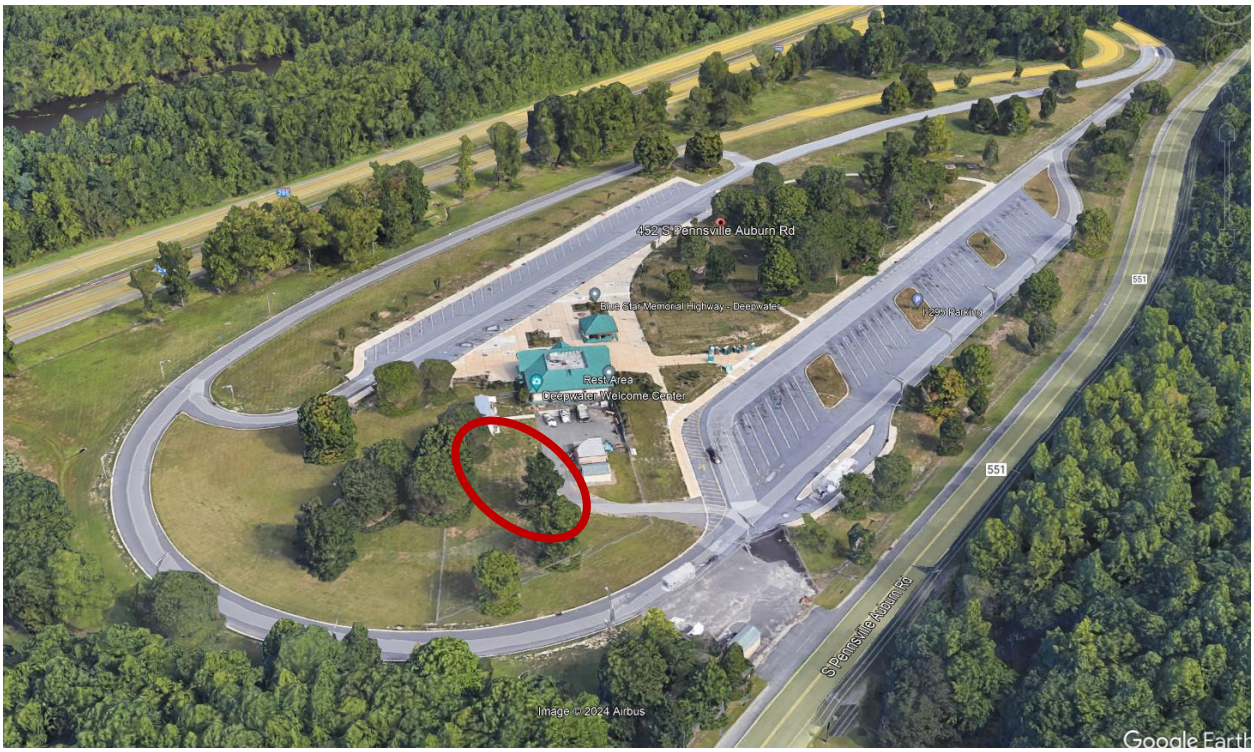
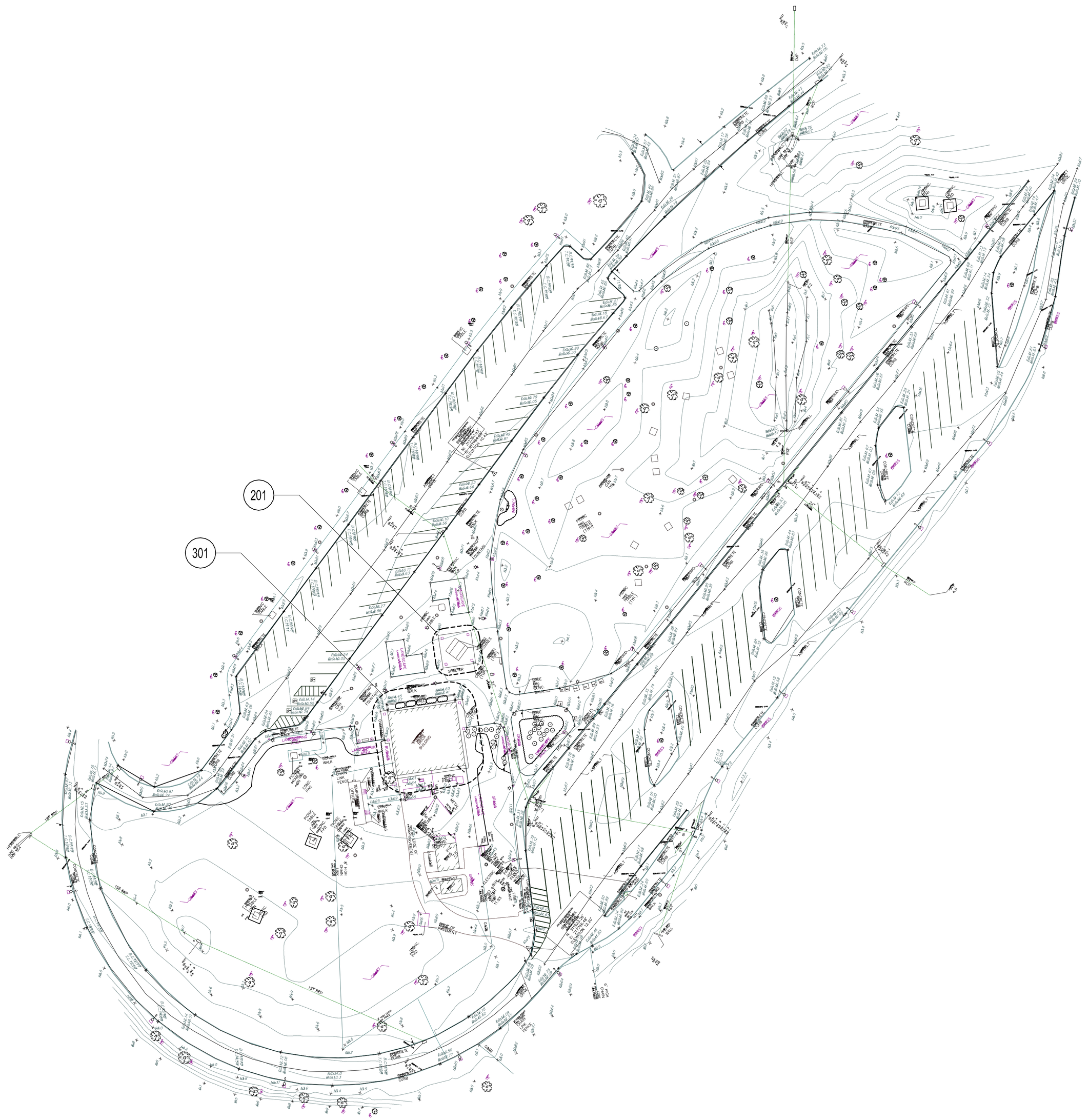

452 S Pennsville Auburn Rd
Rest Area
Deepwater Welcome Center
I-295 Parking
551
S Pennsville Auburn Rd
Image © 2024 Airbus
Google Earth

EXHIBIT 'B'

EXHIBIT 'D'



101 SITE PLAN
SCALE: 1" = 50'-0"
0 25' 50' 100'

SITE UTILIZATION & ACCESS NOTES

1. ERECT AND MAINTAIN TEMPORARY BARRICADES TO LIMIT PUBLIC ACCESS TO HAZARDOUS AREAS. WHENEVER SAFE PUBLIC ACCESS TO PAVED AREAS SUCH AS ROADS, PARKING AREAS OR SIDEWALKS IS PREVENTED BY CONSTRUCTION ACTIVITIES OR AS OTHERWISE NECESSARY TO ENSURE THE SAFETY OF BOTH PEDESTRIAN AND VEHICULAR TRAFFIC, BARRICADES WILL BE REQUIRED. SECURELY PLACE BARRICADES CLEARLY VISIBLE WITH ADEQUATE ILLUMINATION TO PROVIDE SUFFICIENT VISUAL WARNING OF THE HAZARD DURING BOTH DAY AND NIGHT.

2. ENCLOSE THE PROJECT WORK STAGING AND CONTRACTOR LAY-DOWN AREAS WITH AN 8 FT HIGH CHAIN LINK FENCE AND GATES WITH BROWN UV LIGHT RESISTANT, PLASTIC FABRIC MESH NETTING SO THAT VISIBILITY THROUGH THE FENCE IS OBSTRUCTED. REMOVE THE FENCE UPON COMPLETION AND ACCEPTANCE OF THE WORK. INTENT IS TO BLOCK (SCREEN) PUBLIC VIEW OF THE CONSTRUCTION MATERIALS AND OPERATION. FENCE POSTS MAY BE DRIVEN, IN LIEU OF CONCRETE BASES, WHERE SOIL CONDITIONS PERMIT. DO NOT PLACE OR STORE TRAILERS, MATERIALS, OR EQUIPMENT OUTSIDE THE FENCED AREA UNLESS SUCH TRAILERS, MATERIALS, OR EQUIPMENT ARE ASSIGNED A SEPARATE AND DISTINCT STORAGE AREA BY THE DPMC AWAY FROM THE VICINITY OF THE CONSTRUCTION SITE BUT WITHIN THE INSTALLATION BOUNDARIES. TRAILERS, EQUIPMENT, OR MATERIALS MUST NOT BE OPEN TO PUBLIC VIEW WITH THE EXCEPTION OF THOSE ITEMS WHICH ARE IN SUPPORT OF ONGOING WORK ON ANY GIVEN DAY. DO NOT STOCKPILE MATERIALS OUTSIDE THE FENCE IN PREPARATION FOR THE NEXT DAY'S WORK. PARK MOBILE EQUIPMENT, SUCH AS TRACTORS, WHEELED LIFTING EQUIPMENT, CRANES, TRUCKS, AND LIKE EQUIPMENT WITHIN THE FENCED AREA AT THE END OF EACH WORK DAY.

3. CONTRACTOR EMPLOYEES WILL PARK PRIVATELY OWNED VEHICLES IN AN AREA DESIGNATED BY THE DMPC. THIS AREA WILL BE WITHIN REASONABLE WALKING DISTANCE OF THE CONSTRUCTION SITE. CONTRACTOR EMPLOYEE PARKING MUST NOT INTERFERE WITH EXISTING AND ESTABLISHED PARKING REQUIREMENTS OF THE STATE INSTALLATION.

4. PROVIDE TEMPORARY FIRE PROTECTION EQUIPMENT FOR THE PROTECTION OF PERSONNEL AND PROPERTY DURING CONSTRUCTION. REMOVE DEBRIS AND FLAMMABLE MATERIALS DAILY TO MINIMIZE POTENTIAL HAZARDS.

5. CONDUCT OPERATIONS IN A MANNER THAT WILL NOT CLOSE ANY THOROUGHFARE OR INTERFERE IN ANY WAY WITH TRAFFIC ON RAILWAYS OR HIGHWAYS.

6. MAINTAIN AND PROTECT TRAFFIC ON ALL AFFECTED ROADS AND PARKING LANES DURING THE CONSTRUCTION PERIOD EXCEPT AS OTHERWISE SPECIFICALLY PERMITTED BY THE DOCUMENTS OR THE DPMC. MEASURES FOR THE PROTECTION AND DIVERSION OF TRAFFIC, INCLUDING THE PROVISION OF WATCHMEN AND FLAGMEN, ERECTION OF BARRICADES, PLACING OF LIGHTS AROUND AND IN FRONT OF EQUIPMENT AND THE WORK, AS WELL AS THE ERECTION AND MAINTENANCE OF ADEQUATE WARNING, DANGER, AND DIRECTION SIGNS, WILL BE AS REQUIRED BY THE STATE AND LOCAL AUTHORITIES HAVING JURISDICTION. PROTECT THE TRAVELING PUBLIC FROM DAMAGE TO PERSON AND PROPERTY. MINIMIZE THE INTERFERENCE WITH PUBLIC TRAFFIC ON ROADS SELECTED FOR HAULING MATERIAL TO AND FROM THE SITE. INVESTIGATE THE ADEQUACY OF EXISTING ROADS AND THEIR ALLOWABLE LOAD LIMIT. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO ROADS CAUSED BY CONSTRUCTION OPERATIONS.

7. TAKE NECESSARY PRECAUTIONS TO ENSURE THAT ROOF OPENINGS AND OTHER CRITICAL OPENINGS IN THE BUILDING ARE MONITORED CAREFULLY. TAKE IMMEDIATE ACTIONS REQUIRED TO SEAL OFF SUCH OPENINGS WHEN RAIN OR OTHER DETRIMENTAL WEATHER IS IMMINENT, AND AT THE END OF EACH WORKDAY. ENSURE THAT THE OPENINGS ARE COMPLETELY SEALED OFF TO PROTECT MATERIALS AND EQUIPMENT IN THE BUILDING FROM DAMAGE.

8. WHEN A WARNING OF GALE FORCE WINDS IS ISSUED, TAKE PRECAUTIONS TO MINIMIZE DANGER TO PERSONS, AND PROTECT THE WORK AND NEARBY STATE PROPERTY. PRECAUTIONS MUST INCLUDE, BUT ARE NOT LIMITED TO, CLOSING OPENINGS; REMOVING LOOSE MATERIALS, TOOLS AND EQUIPMENT FROM EXPOSED LOCATIONS; AND REMOVING OR SECURING SCAFFOLDING AND OTHER TEMPORARY WORK. CLOSE OPENINGS IN THE WORK WHEN STORMS OF LESSER INTENSITY POSE A THREAT TO THE WORK OR ANY NEARBY STATE PROPERTY.

9. UPON COMPLETION OF THE PROJECT REMOVE THE BULLETIN BOARD, SIGNS, BARRICADES, HAUL ROADS, AND ANY OTHER TEMPORARY PRODUCTS FROM THE SITE. AFTER REMOVAL OF TRAILERS, MATERIALS, AND EQUIPMENT FROM WITHIN THE FENCED AREA, REMOVE THE FENCE THAT WILL BECOME THE PROPERTY OF THE CONTRACTOR. RESTORE AREAS USED BY THE CONTRACTOR FOR THE STORAGE OF EQUIPMENT, MATERIAL, OR OTHER USE TO THE ORIGINAL OR BETTER CONDITION.

RESTROOM WORK PHASING

1. INSTALL TEMPORARY TOILETS (TO SERVE AS WOMEN'S ROOM)
2. PROVIDE INFORMATIONAL/DIRECTIONAL SIGNAGE
3. RENOVATE WOMEN'S ROOM
4. REMOVE TEMPORARY TOILETS
5. TEMPORARILY USE WOMEN'S ROOM AS MEN'S AND WOMEN'S ROOM (PROVIDE SIGNAGE)
6. PERFORM MEN'S ROOM RENOVATION WORK

TEMPORARY TOILET UNITS

TEMPORARY TOILET UNITS FOR THE TRAVELING PUBLIC:

THE GENERAL CONTRACTOR SHALL PROVIDE SELF-CONTAINED MULTI-UNIT COACH-TYPE, INCLUDING MENS AND WOMENS ROOMS AS WELL AS ADA-COMPLIANT TOILET UNITS. FEATURES OF THE UNITS SHALL INCLUDE:

1. HEATING AND AIR CONDITIONING WITH THERMOSTATS IN EACH ROOM
2. WATER SAVING LAVATORIES
3. WATERLESS URINALS
4. FLUSHING WATER SAVER TOILETS
5. LIQUID HAND SOAP, PAPER TOWEL AND TRASH RECEPTACLES
6. INTERIOR AND EXTERIOR LIGHTING
7. LAVATORY MIRRORS.
8. MAINTENANCE, SUPPLIES, CLEANING AND SCHEDULED/EMERGENCY SERVICE

ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED, TRANSMITTED, ADAPTED, OR DISCLOSED FOR OTHER THAN THE ORIGINAL PROJECT/CONTRACT OR PURPOSE ORIGINALLY INTENDED WITHOUT EXPRESS WRITTEN CONSENT OF DE BIASSE & SEMINARA ARCHITECTS, PC. MODIFICATION IN ANY FORM IS EXPRESSLY PROHIBITED.

ALTERATION & RENOVATION TO REST AREA
DEEPWATER WELCOME CENTER
ROUTE 295N - MM 2
SALEM COUNTY
DPMC PROJECT NO. T-566-01
STATE OF NEW JERSEY

DE BIASSE & SEMINARA
ARCHITECTURE PLANNING INTERIORS
TRANSPORTATION EDUCATION HEALTHCARE RESIDENTIAL
7955 WASHINGTON VALLEY ROAD MARTINSVILLE, NJ 08836 732 748 0600
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MICHAEL J. DE BIASSE, AIA, PP, LEED AP NJRA 10862
VIRGINIA WALTON SEMINARA, AIA, PP NJRA 10431

The AS-BUILT information added to this drawing has been supplied by the Contractor. The Architect does not assume the responsibility for its accuracy other than conformity with the design concept and general adequacy of the AS-BUILT information to the best of the Architects knowledge.

AS-BUILT
2/1/2019

THIS DRAWING IS INCOMPLETE UNLESS USED WITH ALL OTHER CONTRACT DOCUMENTS.

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SITE UTILIZATION & ACCESS PLAN
KEY PLAN
SITE DETAILS

SHEET REVISIONS	
#4	
#3	
#2	
#1	

DATE: 15 MAY 2017

SEAL
VIRGINIA WALTON SEMINARA, AIA, PP
NJRA 10431

DRAWING NUMBER
A-1
SHEET 17 OF 43

EXHIBIT 'E'

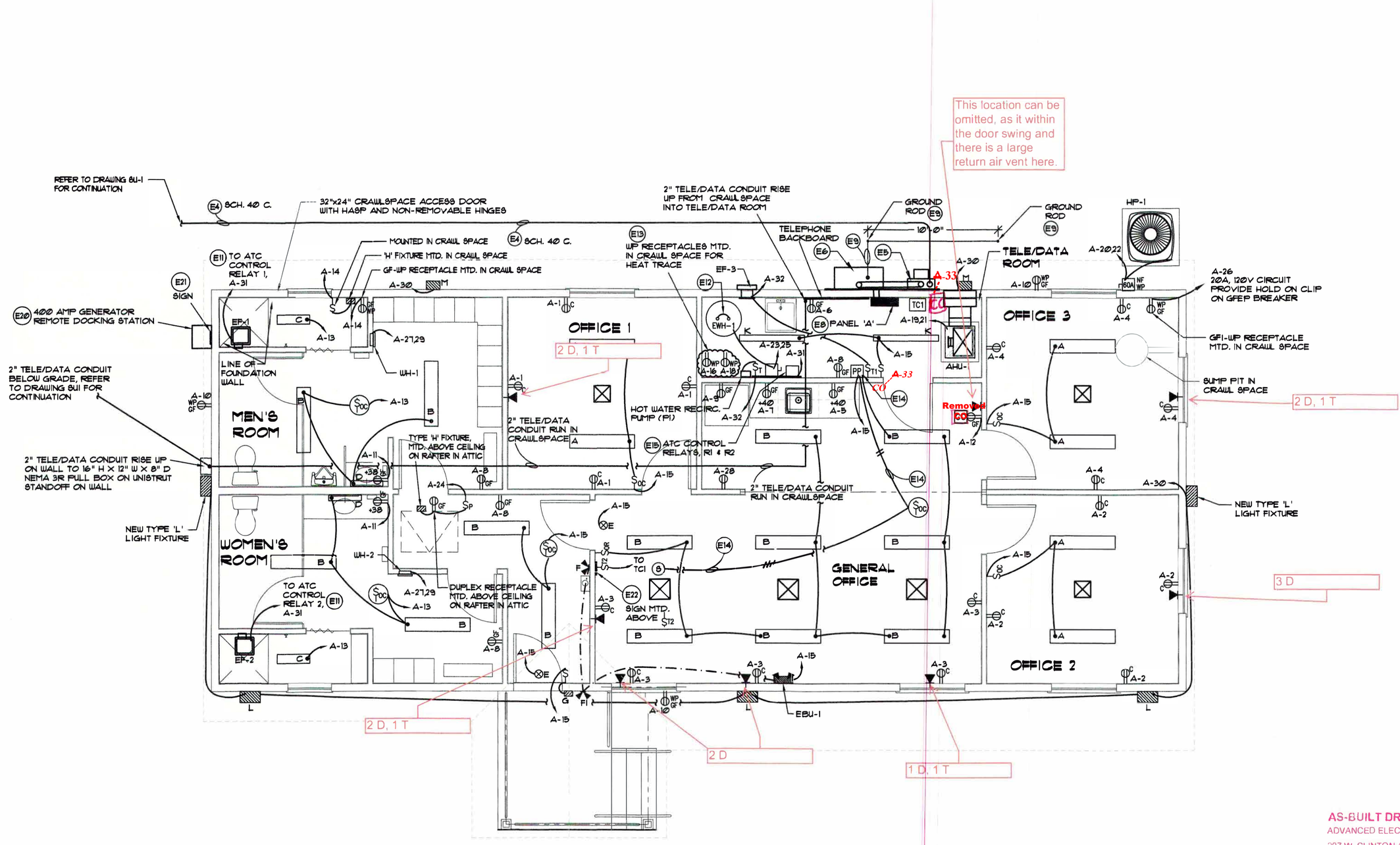
GENERAL ELECTRICAL DRAWING NOTES:

1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW JERSEY UNIFORM CONSTRUCTION CODE, THE NJ EDITION OF 2015 INTERNATIONAL BUILDING CODE, AND THE 2014 NATIONAL ELECTRICAL CODE (NEC) AND OTHER APPLICABLE CODES.
2. PROVIDE A NEW FIRE-RESISTIVE 3/4" THICK, 4' X 4' FIRE RETARDANT PLYWOOD BACKBOARD, IN THE TELE/DATA ROOM IN THE NEW OFFICE BUILDING FOR TELEPHONE AND IT EQUIPMENT. PAINT THE BOARDS WITH TWO COATS OF FIRE RETARDANT GRAY PAINT.
3. PROVIDE SPECIAL CONTROLLED SPLIT DUPLEX RECEPTACLES IN OFFICES AND TIME CLOCK TO CONTROL CONTROLLED OUTLET IN EACH DUPLEX RECEPTACLE. PROVIDE 2-HOT, 1-NEUTRAL AND GROUND IN CIRCUITS TO THESE RECEPTACLES. SEE DRAWINGS FOR WIRING DETAILS FOR THE TIME CLOCK AND RECEPTACLES.
4. THE CONTRACTOR SHALL PROVIDE A 20-AMP CIRCUIT AND TWO DUPLEX RECEPTACLES IN CRAWL SPACE NEAR WATER LINES AND SANITARY PIPES FOR HEAT TAPE, AND ONE DUPLEX OUTLET FOR FUTURE SUMP PUMP. PROVIDE GFEP CIRCUIT BREAKERS FOR THESE CIRCUITS.
5. CRAWL SPACE ACCESS. CONTRACTOR TO PROVIDE ENCLOSED WET LOCATION LIGHT FIXTURE, LIGHT SWITCH, AND A DUPLEX GFIC OUTLET NEAR CRAWL SPACE ACCESS DOOR LOCATION ON EXTERIOR WALL. THESE DEVICES SHALL BE CONNECTED TO A SINGLE 20-AMP BREAKER.
6. THE EBU'S AND EXIT SIGNS SHALL BE CONNECTED TO NORMAL LIGHTING CIRCUITS AND SHALL BE CONNECTED TO POWER SOURCE PRIOR TO LIGHT SWITCHES.
7. REFER TO SU1 SITE UTILITY PLAN FOR SITE ELECTRICAL WORK.
8. THE CONTRACTOR SHALL COORDINATE MECHANICAL EQUIPMENT OVER CURRENT DEVICES WITH EQUIPMENT NAMEPLATE RATING AND PROVIDE OVER CURRENT DEVICES SIZED TO PROTECT THE EQUIPMENT.

NOTES

1. **Remove and turn over plug in CO Detector on Receptacle Circuit A-12**
2. **Provide (2) Kidde KN-COB-IC Hard Wired CO Detectors Wall Mounted at 8-" AFF on Circuit A-33 Spare Breaker**
3. **Move Leckon Clip from Breaker A-12 to A-33.**

This location can be omitted, as it within the door swing and there is a large return air vent here.



NEW OFFICE BUILDING FLOOR PLAN - ELECTRICAL

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

ELECTRICAL SYMBOL LIST

	SURFACE MOUNTED ELECTRICAL PANEL
+38 WP GF	DUPLEX OUTLET SYMBOL (MTD. 18" AFF, OR AS NOTED ON DRAWING) WP - WEATHERPROOF GF - GROUND FAULT PROTECTED +40 - MOUNTING HEIGHT TO BOTTOM
—(/)—	LIGHT SWITCH (20 A, 1-P.)
$T	MANUAL ON-OFF TOGGLE SWITCH, 15 AMP, 120 VOLT, FOR P1
$T1	TIMER SWITCH 0 - 60 MINUTES
$T2	TIMER SWITCH 0 - 2 HOURS CONTROLLED RECEPTACLE OVERRIDE
$P	P - PILOT
$OR	LIGHTING CONTROL OVERRIDE "OFF" OR "AUTO"
OC	CEILING MOUNTED OCCUPANCY SENSOR SWITCH
EBU-1	EMERGENCY BATTERY UNIT NO. 1
F	WALL MTD. EMERGENCY REMOTE LIGHTS
E	CEILING MTD. 'EXIT SIGN'
C	CONTROLLED DUPLEX RECEPTACLE TOP - CONTROLLED BOTTOM - ON AT ALL TIMES
	TELE/DATA OUTLET
TC1	TIME CLOCK 1 4 CIRCUIT ELECTRONIC WITH REMOTE OVER-RIDE BUTTON, RECESSED ALL RECEPTACLES MARKED WITH 'C' SHALL BE SPLIT WIRED WITH TOP RECEPTACLE WIRED THRU TC1
DR	OVER RIDE BUTTON
PP	OCCUPANCY POWER PACK/RELAY
L	TYPE 'L' LIGHT FIXTURE
M	TYPE 'M' LIGHT FIXTURE

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
DN.	DOWN
EX.	EXISTING
A-2	CIRCUIT IDENTIFIER PANEL 'A', POLE 2
C	CONDUIT
EMT	ELECTROMETALLIC CONDUIT
RMC	RIGID METAL CONDUIT
FMC	FLEXIBLE METAL CONDUIT
RNC	RIGID NON-METAL CONDUIT
PVC	POLY VINYL CHLORIDE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
MC	METAL-CLAD CABLE
GD	GROUND
JB	JUNCTION BOX
EJB	EXTERIOR JUNCTION BOX
LB	LIQUID TIGHT JUNCTION BOX
BG	BELOW GRADE OR SLAB
UG	UNDER GROUND
AC	ABOVE CEILING
GD	GROUND
	POINT OF NEW CONNECTION TO EXISTING WORK
J	JUNCTION BOX
1	DEMOLITION NOTE BY SYMBOL
1	ELECTRICAL NOTE BY SYMBOL
	NEW WIRING
	LOW VOLTAGE MINIMUM CIRCUIT 2-#12 W/#12 GD IN CONDUIT
A-1	INDICATES HOME RUN TO PANEL 'A', CIRCUIT 1
CO	NEW CARBON MONOXIDE DETECTOR
NF WP 60A	SAFETY SWITCH NF - NON-FUSED WP - NEMA 3R 60A - 60 AMP

AS-BUILT DRAWING
ADVANCED ELECTRICAL INC.
207 W. CLINTON AVE.
OAKLYN, NJ 08107
856-858-6017
Signed by
Date 7/29/20

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

ELECTRICAL PLAN AND NOTES

SUBMISSION	BY	DATE
FINAL	LC	02/26/18
FINAL 2	LC	06/13/18
FINAL 3	LC	02/28/19
PERMIT/BID	LC	07/17/19

RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE – PLANNING – DESIGN
405 RICHMOND AVE.
POINT PLEASANT BEACH, NEW JERSEY

EASTERN CONSULTANTS, INC.
CONSULTING ENGINEERS
2211 LEHIGH ST. P.O. BOX 4539
EASTON, PENNSYLVANIA 18043

DAVID J. PARSONS, N.J.P.E. NO 24014

E1

PANEL A SCHEDULE

MAINS: 400 AMPS — 120/240 VOLTS, 1 PHASE, 3 WIRE, S/N — LOCATION: TELE/DATA RM
MAIN BRK.: 400A — SPACES: 42 — AIC=22K — MOUNTING: SURFACE

CIRCUIT DESCRIPTION	AMPS A	AMPS B	AMPS C	CIRCUIT BREAKER AMP	POLES P		CIRCUIT BREAKER P	AMP	AMPS A	AMPS B	AMPS C	CIRCUIT DESCRIPTION
RECEPTACLES-OFFICE 1	6			20	1	1	2	1 20	6			RECEPTACLES-OFFICE 2
RECEPTACLES-GEN. OFFICE		6		20	1	3	4	1 20		6		RECEPTACLES-OFFICE 3
RECEPTACLES-KITCHENETTE	10			20	1	5	6	1 20	3			RECEPTACLE-TELE/DATA (L)
RECEPTACLES-KITCHENETTE		3		20	1	7	8	1 20		3		RECEPTACLES-TELE/DATA,MEN,WOMEN
RECEPTACLE-REFRIGERATOR	4			20	1	9	10	1 20	3			RECEPTACLE-OUTSIDE
GFI RECEPTACLE-MEN & WOMEN		3		15	1	11	12	1 15		2		CO DETECTOR (L)
(2) LIGHTS-MEN,WOMEN	3			20	1	13	14	1 20	3			LIGHT/RECEPT.-CRAWLSPACE (L)
LIGHTS-GEN OFF, OFF 2 & 3, TELE/DATA		9		20	1	15	16	1 20		6		RECEPT.-CRAWLSPACE-HEAT TRACE (L) (1)
CONTROLS-TIME CLOCK (L)	1			20	1	17	18	1 20	3			RECEPT.-CRAWLSPACE-HEAT TRACE (L) (1)
AHU-1		47.5		60		19	20	60		37		HP-1
2-#6 & 1-#10 GD	47.5				2	21	22	2	37			2-#6 & 1-#10 GD
EWH-1		21.6		30		23	24	1 20		3		LIGHT/RECEPT-ATTIC
2-#10 & 1-#10 GD	21.6				2	25	26	1 20	6			GFI RECEPT.-CRAWLSPACE (L)
WH-1 & WH-2		8.4		20		27	28	1 20		3		RECEPTACLE-GEN OFFICE
	8.4				2	29	30	1 20	6			LIGHTS - OUTSIDE
(2) EXHAUST FANS 1 & 2		5		20	1	31	32	1 20		2		EF-3
SPARE				20	1	33	34	1 20				SPARE
SPARE						35	36	1 20				SPARE
SPACE						37	38					SPACE
						39	40					
						41	42					
PHASE A TOTALS	101.5					168.5			67			
PHASE B TOTALS		103.5				165.5				62		
TOTAL CONNECTED KVA						40.5						

NOTES: SQUARE D TYPE NQ LOAD CENTER PANELBOARD WITH SURFACE BACKBOX, DOOR COVER, NEUTRAL AND GROUND BARS, AND CIRCUIT BREAKER AS SCHEDULED. INTERRUPTING RATING 22 kA
(1) GFEP CIRCUIT BREAKERS — DO NOT BOND NEUTRAL & GROUND — (L) = LOCK ON CLIP
(2) PROVIDE GFIC CIRCUIT BREAKER

NOTES: PROVIDE REMOVABLE 3-SIDED GALVANIZED COVER ON WALL FOR NMC CABLES FROM PANEL TO FLOOR AND PANEL UP TO CEILING. PROVIDE PVC SLEEVES THROUGH FLOOR FOR NMC WIRES AND SUPPORT NMC CABLES FROM PANEL ON WALL.

KEYED ELECTRICAL NOTES:

(E1) EXISTING ACE POLE #34092. ACE TO PROVIDE TRANSFORMER ON THIS POLE TO SERVE THE NEW OFFICE AND DISCONNECT AND REMOVE EX. OVERHEAD SERVICE AND METER ON THE EXISTING BUILDING TO BE REMOVED.

(E2) NEW ACE OVERHEAD 120/240 VOLT 3-WIRE SERVICE WIRES TO NEW ACE POLE NEAR NEW OFFICE BUILDING.

(E3) NEW ACE UTILITY POLE WITH ACE WITH SECONDARY OVERHEAD WIRES FROM EXISTING POLE #34092 FOR ACE TO MAKE FINAL CONNECTION TO CONTRACTOR SUPPLIED UNDERGROUND SERVICE CONDUCTORS UP ON POLE AND COILED FOR SERVICE CONNECTION BY ACE.

(E4) PROVIDE 3-#500 MCM THWN COPPER CONDUITS FROM METER BASE AND BURIED UNDERGROUND AND UP POLE IN CONDUIT AND COILED AT TOP OF CONDUIT FOR CONNECTION BY ACE TO TRANSFORMERS, CONDUITS ABOVE GRADE AND ELBOWS BELOW GRADE SHALL BE 4" SCH 80 PVC, BELOW GRADE 4" SCH 40 PVC CONDUITS.

(E5) CONTRACTOR SHALL PROVIDE AND INSTALL 320 AMP, 120/240-VOLT, 1 PHASE METER BASE AND METER ON THE BUILDING IN ACCORDANCE WITH ACE UTILITY COMPANY REQUIREMENTS. PROVIDE 2 HORIZONTAL 5/8" GALVANIZED CHANNELS ANCHORED INTO WALL STUDS TO MOUNT METER BASE TO WALL.

(E6) PROVIDE 3-#500 MCM IN 4" SCH 80 PVC FROM METER BASE TO MANUAL TRANSFER SWITCH, IN N.A.NEMA 3R ENCLOSURE, MOUNTED ON 3 HORIZONTAL 5/8" GALVANIZED CHANNELS ANCHORED INTO WALL STUDS ON EXTERIOR WALL PROVIDED FOR METER BASE.

(E7) 4" RMC WITH 4-#500 MCM & 1-#3 GROUND TO NEW PANEL 'A'.

(E8) PANEL 'A' WITH 400 AMP, 2 POLE MAIN SERVICE RATED 22K CIRCUIT BREAKER, GROUND BAR, AND NEUTRAL BAR. BOND NEUTRAL AND GROUND IN PANEL.

(E9) #/0 COPPER GROUND ELECTRODE CONDUCTOR TO TWO (2) 8'-0" LONG COPPER CLAD GROUND RODS WITH BOND CLAMPS.

(E10) #4 THWN COPPER GROUND ELECTRODE CONDUCTOR BONDED TO REBAR IN NEW FOOTER, RUN DOWN TO 2 FEET BELOW GRADE IN 1" SCH. 80 PVC CONDUIT, CONNECT TO REBAR WITH BRONZE BOND CLAMPS.

(E11) PROVIDE 2-#12 W/#12 GD IN 3/4" C. FROM ATC R1 TO EF-1 AND FROM ATC R2 TO EF-2.

(E12) PROVIDE #/0 COPPER BONDING JUMPER FROM COLD TO HOT PIPES AT EWH-1 AND BOND TO COPPER PIPES WITH BRONZE UL CLAMPS.

(E13) DUPLEX RECEPTACLES IN CRAWL SPACE FOR HEAT TAPE.

(E14) MOUNT POWER PACK FOR OCCUPANCY SENSORS IN TELE/DATA ROOM AND RUN 18/2 LOW VOLTAGE CABLE TO CEILING OCCUPANCY SENSORS.

(E15) MOUNT TWO ATC CONTROL RELAYS FOR EF-1 & EF-2 IN THE MECHANICAL RM. CONNECT TO EACH IN PARALLEL WITH OCCUPANCY LIGHTING SWITCHES IN EACH TOILET ROOM TO CONTROL EF-1 AND EF-2. SEE WIRING DETAIL ON DRAWING E2.

(E16) PROVIDE #/0 COPPER TO BOND WITH BRONZE CLAMP TO COPPER WATER PIPE.

(E17) PROVIDE A COPPER GROUND BUSS BAR ON THE PLYWOOD TELE/DATA BACKBOARD AND CONNECT TO GROUND BAR IN PANEL 'A' WITH #/0 COPPER GROUND WIRE.

(E18) PROVIDE A 4'X4'X3/4" THICK FIRE RETARDANT PLYWOOD BACKBOARD, PAINTED WITH 2-COATS OF FIRE RETARDANT GRAY PAINT, IN TELE/DATA ROOM.

(E19) NEW 4" SCH. 80 PVC W/3-500 MCM & 1-#/0 GROUND.

(E20) PROVIDE 400 AMP GENERATOR REMOTE DOCKING STATION.

(E21) ADD SIGN AT DOCKING STATION AND TRANSFER SWITCH:

(E22) ADD SIGN ABOVE ST2:

CONTROLLED RECEPTACLES OVERRIDE SWITCH

WARNING
FOR CONNECTION OF NON SEPARATELY DERIVED (FLOATING NEUTRAL) SYSTEM ONLY

LIGHTING FIXTURE SCHEDULE

SYM	MANUFACTURER	CATALOG NO.	LAMPS	MTD.	REMARKS
A	LITHONIA	STL4-60L-LP840	53.2 W LED	CEILING SURFACE	881 LUMENS, LED 4000K, NOTE #8
B	LITHONIA	STL4-48L-LP840	45.2W LED	CEILING SURFACE	5088 LUMENS, LED 4000K, NOTE #8
C	LITHONIA	DMW2-L24-2000LM-ACL-MD-120 35K-80CRI-GMB-MBWCNUL	18 W LED	CEILING SURFACE	2000 LUMENS, LED 3500K, W/INDIVIDUAL FIXTURE PIR OCCUPANCY SENSOR, NOTES #1 & 8
D	LITHONIA	FMVT8L-24IN-MVOLT-35K-EN	18 W LED	WALL SURFACE	1308 LUMENS, LED 3500K MOUNTED ON WALL ABOVE MIRROR, NOTE #8
E	DUAL-LITE	EVE-U-R-W-E-I	LED 'EXIT' SIGN	CEILING SURFACE	CEILING MOUNTED 'EXIT' SIGN ABOVE DOOR WITH BATTERY BACKUP, NOTE #2
F	DUAL-LITE	CPRDW6603L	2- 3W 6 V LED LAMPS	WALL SURFACE	INDOOR REMOTE EMERGENCY HEADS NOTE #3
FI	DUAL-LITE	OCRDW6603L	2- 3W 6 V LED LAMPS	WALL SURFACE	OUTDOOR UL WET LOCATION LISTED REMOTE EMERGENCY HEADS NOTES #3 & 6
G	HUBBELL	NRG-312LU-5K-BZ-PC-120	18 W LED	WALL SURFACE	5000°K LED, BOTTOM MOUNTED 7'-0" ABOVE BUILDING FINISHED FLOOR, NOTES #4 & 8
H	HUBBELL	VWGL-1	11 LED/ 757 LUMENS	WALL SURFACE	LED 4100 DEG, FIXTURE MOUNTED ON TRUSS ABOVE CEILING AT TOP OF FULL DOUN STAIRS
K	SIMKAR	LCH-4-FA-25-35-UI	20W LED	CEILING SURFACE	2480 LUMENS, LED 3500 DEG, NOTE #3
L	HUBBELL	PVL3-30LU-5K-BZ-PBT-1	69 W LED	WALL SURFACE	5000°K LED, W/PHOTO CONTROL, TOP MOUNTED 9'-6" ABOVE FINISHED GRADE, NOTES #6, 7 & 8
M	HUBBELL	LNC2-12L-4K-035-1-DB-PCU	14 W LED	WALL SURFACE	4000°K LED, W/PHOTO CONTROL, TOP MOUNTED 9'-6" ABOVE FINISHED GRADE, NOTES #3, 6, 7 & 8

NOTES:
1. LIGHTING FIXTURE - WET LOCATION WITH 360° OCCUPANCY SENSOR.
2. 'EXIT' SIGN BY DUAL-LITE, EMERGI-LITE, LITHONIA OR APPROVED EQUAL.
3. REMOTE EMERGENCY HEADS WITH MOUNTS, SAME MANUFACTURER AS 'EBU' UNIT.
4. MEDIUM BRONZE FINISH, RATED WET LOCATION AND WITH INTERNAL PHOTOCELL.
5. 12 LED'S, 14 WATTS, TYPE 3 DISTRIBUTION, 1426 LUMENS.
6. FIXTURE TO BE UL LISTED FOR WET LOCATION.
7. PROVIDE PVL3W - FULL CUT-OFF VISOR.
8. LIGHTING FIXTURE MANUFACTURERS: LITHONIA, HUBBELL, COLUMBIA, OR APPROVED EQUAL.
9. LIGHTING FIXTURES BY SIMKAR, HUBBELL, LITHONIA, OR APPROVED EQUAL.

EMERGENCY LIGHT BATTERY UNIT NO. 1 (EBU-1):

DUAL-LITE MODEL LM33-I-@3L
RATED AT 33 WATTS FOR 1 1/2 HOURS AT 6 VOLTS DC
LEAD CALCIUM BATTERY
UNIT EQUIPPED WITH 2-6 VOLT-3 WATT LED HEADS AND SELF-TEST
UNIT MOUNTED 80 TOP OF HEADS ARE 4" BELOW CEILING
EMERGENCY BATTERY UNITS BY DUAL-LITE, EMERGI-LITE, HUBBELL, LITHONIA OR APPROVED EQUAL.

EMERGENCY & EXIT SIGN WIRING NOTES:

EMERGENCY LIGHTING CIRCUITS - 2-#2 W/#2 GD IN RMC OR EMC AND WEATHER PROOF OUTLET BOXES.
POWER CIRCUITS TO EBU'S AND EXIT SIGNS SHALL BE ON CIRCUITS PRIOR TO SWITCHES.

ELECTRICAL EQUIPMENT

TIME CLOCK (TC-1)

'INTERMATIC' MODEL ET80815-B CIRCUIT TIME CLOCK IN NEMA 1 ENCLOSURE AND SURFACE BACKBOX.
UL LISTED AND UL CATEGORY 916 ENERGY MANAGEMENT EQUIPMENT.
WITH CONTACT INPUT TO PROVIDE BYPASS FROM OVERRIDE TIMER SWITCH ST2.

OVERRIDE TIMER SWITCH "ST2" FOR USE WITH TC-1

0-2 HOUR TIMER SWITCH - INTERMATIC FD32H
USED TO TURN ON CONTROLLED OUTLETS FOR UP TO 2-HOURS.

ATC CONTROL RELAY FOR EF-1 & 2:

RIB FUNCTIONAL DEVICES MODEL RIBUIC ENCLOSED RELAY
24-VOLT CONTROL AND 120-VOLT,10 AMP CONTACT.
MANUFACTURERS: RIB, HONEYWELL, OMRON, IDEC OR APPROVED EQUAL.

CARBON MONOXIDE DETECTOR: CO

PROVIDE CARBON MONOXIDE DETECTORS AND INSTALL PLUG INTO DUPLEX RECEPTACLE XXXX Hard Wired
CARBON MONOXIDE DETECTORS SHALL GO INTO ALARM IN EVENT OF HIGH CO PRESENT IN SPACE.
DETECTORS SHALL BE 120 VOLT WITH BATTERY BACKUP.
MANUFACTURERS:
BRK MODEL #SC9127, KIDDE MODEL #126782,
~~XXXX

EXHIBIT 'E'

MECHANICAL EQUIPMENT:

SPLIT SYSTEM HEAT PUMP SYSTEM (AHU-1 & HP-1):

AIR HANDLER UNIT NO. 1 (AHU-1):

TRANE MODEL GAM5B0C60 AIR HANDLER WITH DX COIL & ELECTRIC HEAT COIL
TOTAL COOLING: 52,274 BTUH SENSIBLE COOLING: 42,510 BTUH SEER = 15.0
HEATING @ 47 DEG. F. = 52,000 BTUH COP = 3.5 HSPF = 9.0
HEATING @ 17 DEG. F. = 35,200 BTUH COP = 2.7
AIR FLOW = 1920 CFM
MINIMUM OUTSIDE AIR = 263 CFM
BACKUP ELECTRIC HEAT: 9.6 KW @ 240-VOLT: 32,640 BTUH
ELECTRICAL CONNECTED LOAD @ 240 VOLT, 60 HZ, 1 PHASE: 47.5 AMPS
MIN. CIRCUIT AMPACITY = 60 AMPS
HCAR MCOP BREAKER OR DUAL ELEMENT FUSES = 60 AMPS
PROVIDE WITH BLOWER OFF DELAY AND AIR FLOW SWITCH.

PROVIDE TRANE OR HONEYWELL 7-DAY PROGRAMMABLE THERMOSTAT

PROVIDE A MIXING BOX COMPLETE WITH DAMPER MOTORS, ECONOMIZER CONTROLLER AND LOGIC MODULES FOR ENTHALPY CONTROL OF ECONOMIZER

PROVIDE CONTROL WIRING BETWEEN AHU-1, HP-1, PROGRAMMABLE THERMOSTAT AND ECONOMIZER

MANUFACTURERS: TRANE, CARRIER, YORK OR APPROVED EQUALS.

PROVIDE 1" ID PVC CONDENSATE PIPE FROM DX COIL CONDENSATE OUTLET AND DEEP SEAL TRAP AND RUN PIPE DOWN TO FLOOR DRAIN. STOP PIPE 2" MIN. ABOVE THE FLOOR DRAIN.
SLOPE HORIZONTAL PIPE AT 1/4" PER FOOT.

HEAT PUMP NO. 1 (HP-1):

TRANE MODEL NO. 4TWR7060 · TWO-STAGE HEAT PUMP
PROVIDE WITH LOW AMBIENT KIT, HEAD PRESSURE CONTROL
ELECTRICAL: 208/230 VOLT, 60 HZ, 1 PHASE
TOTAL AMPS: 37
MCA: 60 AMPS
HACR BREAKER OR DUAL ELEMENT FUSE= 60 AMPS

PROVIDE REFRIGERANT LINE SET BETWEEN AH-1 AND HP-1
REFRIGERANT LINE SET: 3/8" OD LIQUID, 1-1/8" OD VAPOR
REFRIGERANT: R-410A
PROVIDE LIQUID AND VAPOR LINE SET AND CONTROL WIRING BETWEEN HP-1 AND AHU-1 IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PROVIDE EXTREME CONDITION MOUNTING KIT FOR HEAT PUMP WITH FOUR (4) CLIPS ATTACHED TO THE HEAT PUMP IN FOUR LOCATIONS AND WITH 1/4" DIA. X 2" LONG 316 S.S. SCREWS INTO CONCRETE CURB. PROVIDE 42" L X 42" W X 4" THICK CONCRETE EQUIPMENT CURB FOR HP-1.

AUTOMATIC TEMPERATURE CONTROL - SEQUENCE OF OPERATIONS

THE AUTOMATIC TEMPERATURE CONTROLS SUPPLIED WITH EACH SPLIT SYSTEM HEAT PUMP WILL PROVIDE THE FOLLOWING SEQUENCE OF OPERATIONS:

A PROGRAMMABLE THERMOSTAT WILL BE ABLE TO AUTOMATICALLY CHANGE FROM OCCUPIED TO UNOCCUPIED MODES OF OPERATION AND AUTOMATICALLY CHANGE FROM HEATING TO COOLING OPERATION BASED ON 7-DAY WEEKLY PROGRAM. IF THE HEAT PUMP CANNOT PROVIDE ENOUGH HEAT OR FAILS, THE THERMOSTAT WILL ACTIVATE THE AUXILIARY ELECTRIC HEATING COIL IN AHU-1.

OCCUPIED MODE: THE SYSTEM FAN WILL RUN CONTINUOUSLY, OUTDOOR AIR DAMPER WILL BE OPENED TO THE MINIMUM POSITION, IF COOL AIR IS AVAILABLE THE ENTHALPY CONTROLLER WILL OPEN DAMPER MORE FOR FREE COOLING. THE THERMOSTAT WILL CALL FOR HEATING OR COOLING TO MAINTAIN SPACE TEMPERATURE SETTINGS FOR THE OCCUPIED TIME PERIOD. THE CONTROL SYSTEM WILL BE CONNECTED TO RELAYS TO START EF-1 AND EF-2 TO RUN AT ALL TIMES DURING THE OCCUPIED TIME PERIOD.

UNOCCUPIED MODE: THE CONTROLLER WILL CLOSE OUTSIDE AIR DAMPERS, TURN OFF EF-1 AND EF-2, AND TURN OFF AHU-1 FAN. DURING THIS TIME PERIOD IF THE THERMOSTAT REQUIRES HEAT IT WILL START HEAT PUMP IN HEATING MODE, AND IF COOLING IS REQUIRED IT WILL START HEAT PUMP IN COOLING MODE.

CONTROLS - EXHAUST FANS (EF-1 & EF-2):

DURING OCCUPIED PERIOD ATC FOR HVAC SYSTEM THROUGH RELAY WILL ENERGIZE CIRCUITS SO THAT EF-1 AND EF-2 WILL RUN CONTINUOUSLY. DURING UNOCCUPIED PERIODS AN OCCUPANCY SENSOR IN THE MEN'S ROOM WILL ENERGIZE EF-1 AND AN OCCUPANCY SENSOR IN THE WOMEN'S ROOM WILL ENERGIZE EF-2 WHEN ROOMS ARE OCCUPIED.

ELECTRIC WALL HEATERS (WH-1, 2):

CAPACITY: 5120 BTUH, 1000 WATTS, 240 VOLT, 1-PHASE, 4.2 AMPS
'Q-MARK' MODEL SED1024C SEMI-RECESSED WITH 1-1/4" DEEP SURFACE COVER
SEMI-RECESSED MOUNTING, WITH 14 GAUGE SECURITY FRONT COVER, BACKBOX, HEATER ASSEMBLY
CONCEALED TAMPERPROOF THERMOSTAT WITH REMOVABLE FRONT TEMPERATURE DIAL,
CONCEALED 2-POLE SNAP-ACTION THERMOSTAT WITH REMOVABLE FRONT TEMPERATURE DIAL,
THERMAL CUT-OUT SWITCH, AND FAN, AND FRONT COVER PLUG BUTTON.
ASSEMBLY AND FRONT PANEL.
AFTER TEMPERATURE IS SET THERMOSTAT DIAL CAN BE REMOVED AND BUTTON INSTALLED IN FRONT COVER SO THAT TEMPERATURE CANNOT BE CHANGED. (SET AT 65 DEG. F.)
MANUFACTURERS: Q-MARK, BERKO, MARLEY OR APPROVED EQUALS.

GRILLE, REGISTER & DIFFUSER SCHEDULE

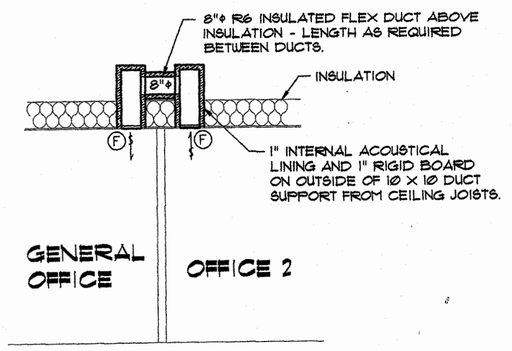
NO.	MFGR.	MODEL	LISTED SIZE	PATTERN	REMARKS
A	METAL*AIRE	5500-2-S4	15X15	4-WAY SQUARE	1,2,3
B		5500-2-S4	12X12	4-WAY SQUARE	1,2,3
C		5500-2-SC	6X6	2-WAY CORNER SQUARE	1,2,3
D		V4004D-1	6X4	S/A REGISTER	1,3,4,5
F		RHE-1	10X10	TRANSFER	3
G	METAL*AIRE	RH	24X30	R/A GRILLE	1,3,6

REMARKS:
1. ALUMINUM CONSTRUCTION WITH OFF-WHITE BAKED ENAMEL FINISH.
2. PROVIDED WITH OPPOSED BLADE DAMPERS.
3. MANUFACTURERS: METAL-AIRE, TITUS, CARNES, OR APPROVED EQUALS.
4. DOUBLE DEFLECTION REGISTER WITH OPPOSED BLADE DAMPERS.
5. PROVIDE 6" X 4" DUCT FROM MAIN S/A DUCT WITH FLANGES TO MOUNT REGISTER.
6. 24" WIDE X 30" HIGH R/A GRILLE EXTRUDED ALUMINUM WITH HORIZONTAL BLADES.

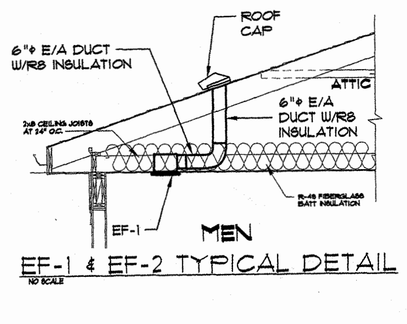
VENTILATION SCHEDULE

ROOM NAME	AREA SQ. FT.	NO. OF PEOPLE	REQUIRED AIRFLOW TOTAL ACH	REQUIRED AIRFLOW O/A ACH	SUPPLY DESIGN AIRFLOW TOTAL ACH	SUPPLY DESIGN AIRFLOW O/A ACH
OFFICE 1	138	2	195 CFM	20 CFM	195 CFM	20 CFM
GENERAL OFFICE	392	20	968 CFM	144 CFM	970 CFM	145 CFM
OFFICE 2	141	2	238 CFM	20 CFM	240 CFM	20 CFM
OFFICE 3	138	2	233 CFM	20 CFM	235 CFM	20 CFM
TELE/DATA	86	0	37 CFM	5 CFM	40 CFM	5 CFM
WOMEN	168	2	77 CFM	22 CFM	70 CFM	22 CFM
MEN	206	2	82 CFM	24 CFM	100 CFM	25 CFM
VESTIBULE	87	0	25 CFM	5 CFM	70 CFM	6 CFM
TOTALS		30	1855 CFM	260 CFM	1920 CFM	263 CFM

NOTE:
EXHAUST AIR FROM MEN'S ROOM = 150 CFM
WOMEN'S ROOM = 100 CFM
SUPPLY AIR INTO ROOMS LESS THAN ADDITIONAL MAKEUP AIR TRANSFERRED FROM VESTIBULE FOR THESE ROOMS.



TYPICAL TRANSFER DUCT DETAIL
NO SCALE



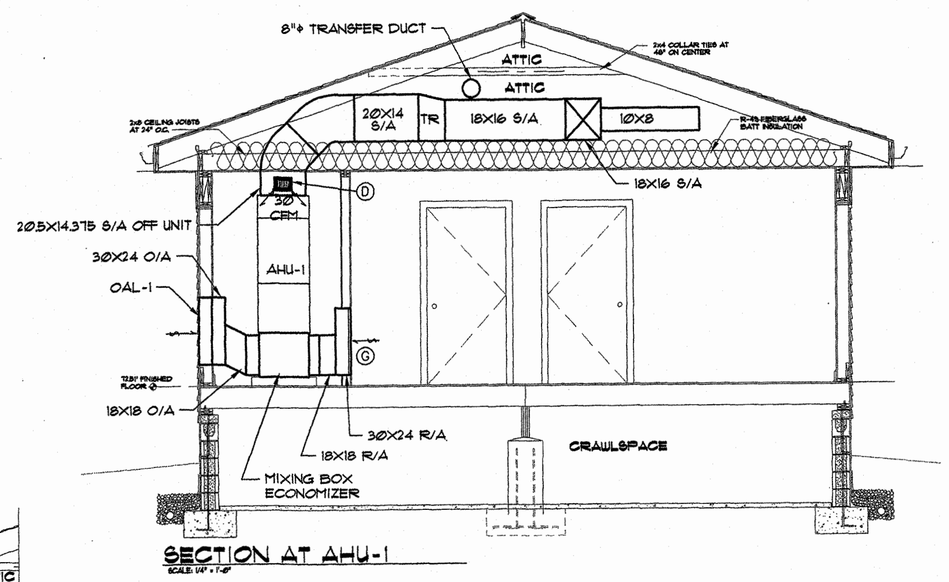
EF-1 & EF-2 TYPICAL DETAIL
NO SCALE

EXHAUST FAN SCHEDULE

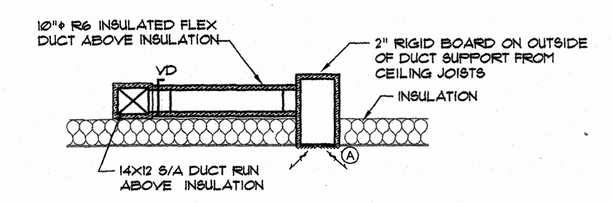
FAN NO.	USE	LOCATION	CFM	SP	SONES	MANUFACTURER	MODEL	ELECTRICAL	AMPS	REMARKS
EF-1	VENTILATION	MEN'S ROOM	150	.100	1.4	BROAN	QTXE150	115 V, 1 PH.	.5	1,2,3,5
EF-2	VENTILATION	WOMEN'S ROOM	100	.136	1.4	BROAN	QTXE150	115 V, 1 PH.	.5	1,2,3,5
EF-3	VENTILATION	TELE/DATA ROOM	50	.136	6.5	BROAN	509	115 V, 1 PH.	1.7	4,5

NOTES:
1. EF1 AND EF2 ARE CEILING MOUNTED. CONTRACTOR TO PROVIDE ALUMINUM FROM EXHAUST FAN OUTLET TO ROOF VENT. PROVIDE 1-1/2" INSULATION AROUND E/A DUCT.
2. PROVIDE "BROAN" MODEL 634M ROOF VENT WITH BLACK FINISH FOR EACH EF.
3. EF-1 & EF-2 SHALL RUN CONTINUOUSLY DURING OCCUPIED PERIODS, AND WITH LIGHTING OCCUPANCY SENSOR CONTROL DURING UNOCCUPIED PERIODS.
4. EF-3 IS THROUGH THE WALL FAN WITH OUTSIDE COVER AND WILL BE OPERATED BY TIMER SWITCH.
5. MANUFACTURERS: BROAN, NUTONE, PANASONIC, OR APPROVED EQUALS.

OUTSIDE AIR LOUVER (OAL-1)
'NCA' MODEL NO. XAD-GL EXTRUDED ALUMINUM DRAINABLE BLADES WITH POLYURETHANE ACRYLIC ENAMEL FINISH.
SIZE 24" WIDE X 30" HIGH X 6" DEEP WITH CHANNEL FRAME
NOTE: CONTRACTOR TO FRAME EXTERIOR WALL OPENING TO ACCEPT CHANNEL FRAME AND CAULK AROUND LOUVER AFTER IT IS INSTALLED.
MANUFACTURERS: NCA, GREENHECK, CARNES OR APPROVED EQUAL.



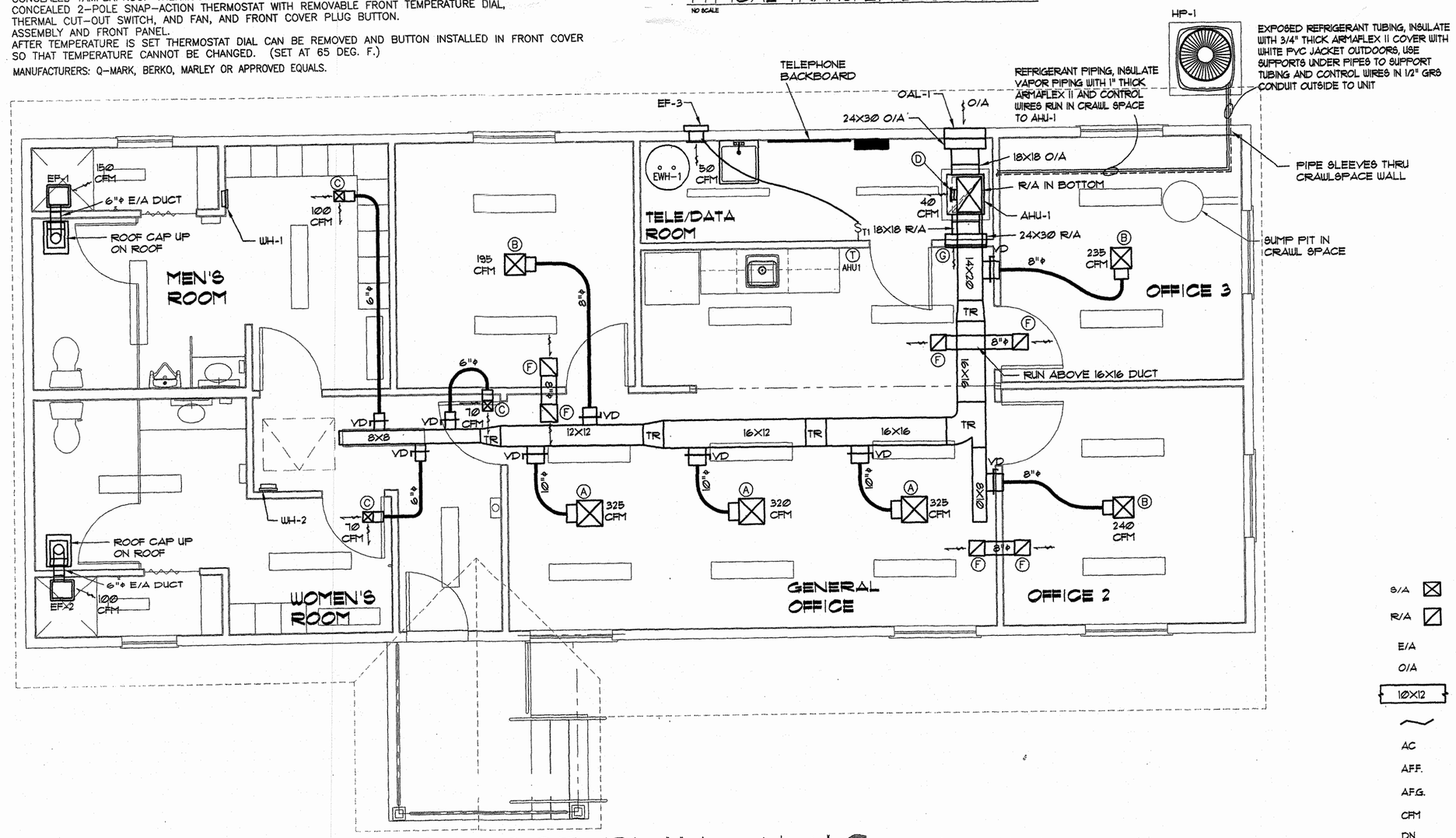
SECTION AT AHU-1
SCALE: 1/4"=1'-0"



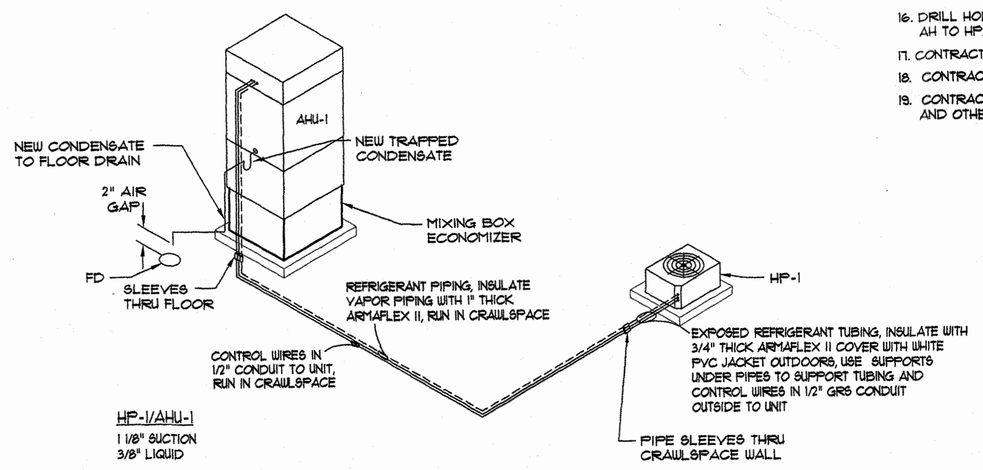
TYPICAL CONNECTION TO S/A DIFFUSER
NO SCALE
NOTE: DUCT PLENUM DOWN TO DIFFUSER SIZE BASED ON DIFFUSER SERVED SEE DIFFUSER SCHEDULE FOR DIFFUSER NECK SIZE FOR DUCT SIZE

HVAC DRAWING NOTES:

1. ALL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE NEW JERSEY UNIFORM CONSTRUCTION CODE, THE NJ EDITION OF 2015 INTERNATIONAL BUILDING CODE' THE 2015 INTERNATIONAL MECHANICAL CODE, AND THE 2015 ANSI/ASHRAE/IES 90.1 BUILDING ENERGY CODE, AND THE 2014 NATIONAL ELECTRICAL CODE.
2. THE CONTRACTOR SHALL INSTALL ALL HVAC EQUIPMENT AND INSTALL WHERE SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ATTACHMENTS AS REQUIRED TO ANCHOR OR SUPPORT EQUIPMENT.
3. CONTRACTOR SHALL FURNISH AND INSTALL HOLD-DOWN BRACKETS FOR THE HEAT PUMP TO ANCHOR IT TO THE CONCRETE SLAB IT IS MOUNTED ON.
4. CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING BETWEEN THE AIR HANDLERS AND HEAT PUMP UNITS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. PROVIDE CHARGING VALVES AND REFRIGERANT CHARGE SYSTEM TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. CONTRACTOR SHALL CHARGE REFRIGERATION SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND ARI STANDARDS.
7. CONTRACTOR TO FURNISH AND INSTALL A 1" TRAPPED CONDENSATE FROM AH UNIT COOLING COIL AND PIPE INDIRECT DRAIN TO A FLOOR FLOOR DRAIN.
8. FURNISH AND INSTALL INSULATION ON ALL SUPPLY, RETURN, AND EXHAUST DUCTS AND INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
9. CONTRACTOR SHALL FURNISH AND INSTALL GALVANIZED STEEL SHEET METAL DUCTS IN THICKNESS AS SPECIFIED IN 2015 IMC TABLE 603.4 BASED ON DUCT SIZE. APPROVED SEALANT SHALL BE USED TO SEAL ALL DUCT JOINTS TO PREVENT AIR LEAKAGE.
10. FLEXIBLE AIR DUCTS SHALL BE CONSTRUCTED TESTED IN ACCORDANCE WITH 'UL181' WITH FIBERGLASS INSULATION R6 RATING AND EXTERIOR ALUMINIZED VAPOR BARRIER.
11. INSULATION ON SUPPLY DUCTS IN ATTIC SHALL BE 2" THICK 'JM' EQ FSK TYPE 100# FLEXIBLE INSULATION WITH FSK EXTERIOR VAPOR BARRIER, R=7.2 TAPE ALL SEAMS.
12. INSULATION ON SUPPLY DUCTS IN TELE/DATA ROOM SHALL BE 1" THICK 'JM 814 SPUNGLASS WITH WHITE 'AP' EXTERIOR VAPOR BARRIER, R=3.5.
13. INSULATION ON RETURN AIR DUCT SHALL BE "JM PERMACOUSTIC RC-HP" DUCT LINER 1" THICK ON INTERIOR OF THE R/A DUCT. THIS WILL ALSO BE INSTALLED ON INSIDE OF TRANSFER DUCTS IN ATTIC ALONG WITH 1" THICK JM SPUNGLASS 814 ON DUCT EXTERIOR.
14. DUCT INSULATION SHALL BE AS MANUFACTURED BY JOHN MANSVILLE ('JM'), KNAUF, OWENS CORNING OR APPROVED EQUAL.
15. CONTRACTOR SHALL INCLUDE BALANCING OF ALL AIR SYSTEMS INCLUDING MEASUREMENTS OF AIR FLOWS AND PRESSURE DIFFERENTIALS AT THE AIR HANDLER, AMPS ON MOTOR, SPEED CONTROL SETTING, AND AIR FLOW AT EACH REGISTER, DIFFUSER AND GRILLE, AND EXHAUST FANS. CONTRACTOR SHALL PROVIDE COMPLETE BALANCE REPORT BY A "NEBB'S" OR "AABC" CERTIFIED AIR BALANCER FOR THE HVAC SYSTEMS.
16. DRILL HOLES IN EXTERIOR WALLS FOR REFRIGERANT LINES AND ELECTRICAL LINES FROM AH TO HP. PROVIDE WEATHERPROOF PENETRATIONS.
17. CONTRACTOR SHALL CAULK SEAL AROUND ALL PENETRATIONS OF EXTERIOR WALL.
18. CONTRACTOR SHALL COORDINATE AND CONDUCT ALL INSPECTIONS WITH THE CODE OFFICIALS.
19. CONTRACTOR TO PROVIDE EXTENDED 5-YEAR WARRANTY ON THE HEAT PUMP COMPRESSOR AND OTHER EQUIPMENT AS SPECIFIED IN DIVISION 1 OF THE SPECIFICATIONS.



NEW OFFICE BUILDING FLOOR PLAN - HVAC
SCALE: 1/4" = 1'-0"



TYPICAL HP/AHU AND CONDENSATE PIPING DIAGRAM
NO SCALE

SYMBOL LIST

S/A	SUPPLY AIR		DIRECTION OF AIR FLOW
R/A	RETURN AIR	EF-1	EXHAUST FAN NO. 1
E/A	EXHAUST AIR	EWH-1	ELECTRIC WALL HEATER NO. 1
O/A	OUTSIDE AIR	AHU-1	AIR HANDLING UNIT NO. 1
10X12	DUCTWORK W/DUCT SIZE	T AHU1	THERMOSTAT FOR AHU-1
	ROUND FLEXIBLE AIR DUCT	R.S.	REFRIGERANT VAPOR
AC	ABOVE CEILING	R.L.	REFRIGERANT LIQUID
A.F.F.	ABOVE FINISH FLOOR	OAL-1	OUTSIDE AIR LOUVER NO. 1
A.F.G.	ABOVE FINISH GRADE		
CFM	CUBIC FEET PER MINUTE		
DN	DOWN		

AS BUILTS
Gaudelli Bros, Inc.
202 South Wade Blvd.
Millville, NJ 08332
NO CHANGES 10/30/20

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

HVAC PLAN SCHEDULES AND DETAILS

SUBMISSION	BY	DATE
FINAL	LC	02/26/18
FINAL 2	LC	06/13/18
FINAL 3	LC	02/28/19
PERMIT/BID	LC	07/17/19

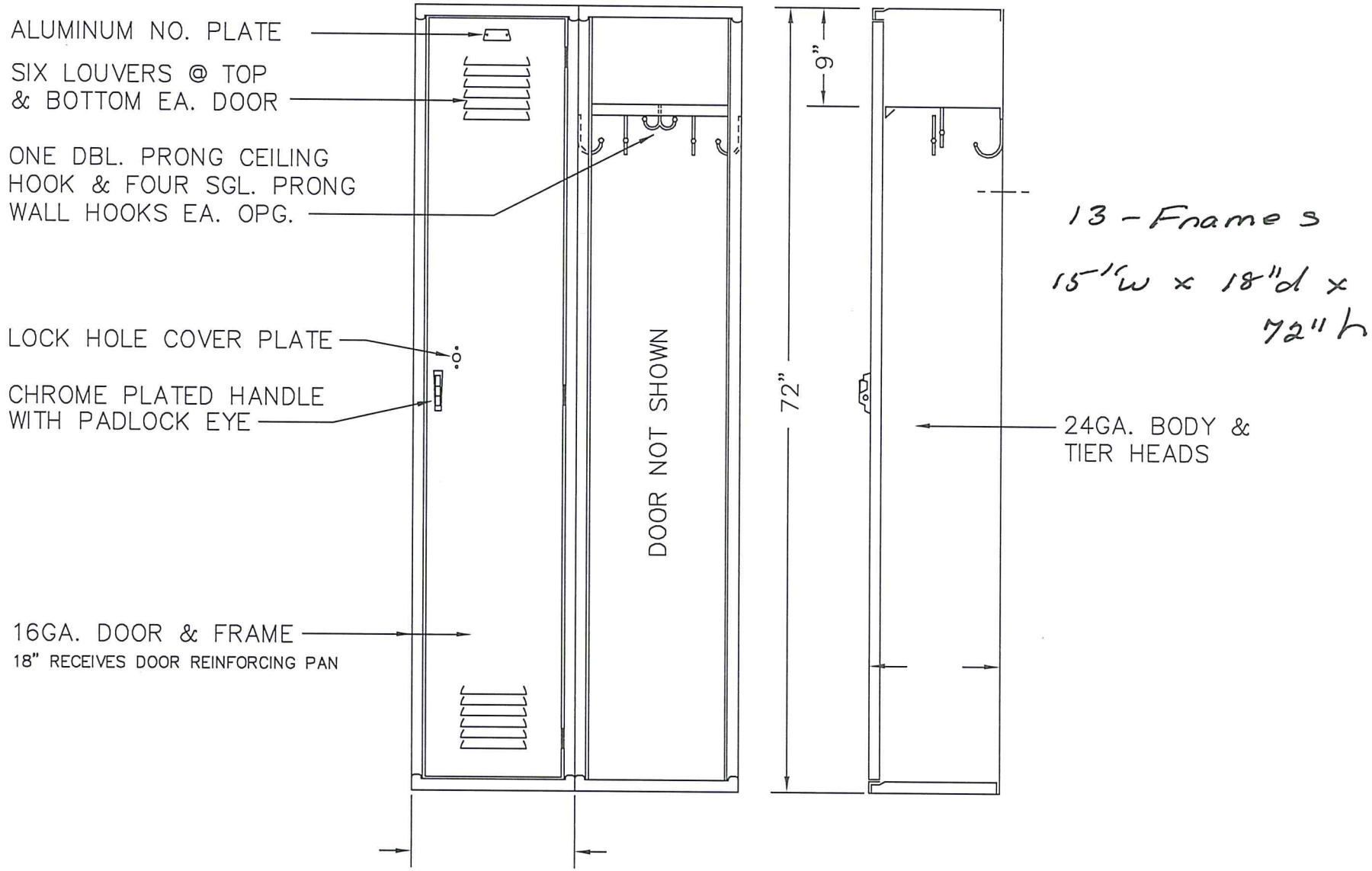
RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE - PLANNING - DESIGN
405 RICHMOND AVE.
POINT PLEASANT BEACH, NEW JERSEY

EASTERN CONSULTANTS, INC.
CONSULTING ENGINEERS
2211 LEHIGH ST. P.O. BOX 4539
EASTON, PENNSYLVANIA 18043

DAVID J. PARSONS, N.J.P.E. NO 24014

H1

EXHIBIT 'E'



ELEVATION SECTION @ WALL

72" HIGH SINGLE TIER VANGUARD KNOCKDOWN LOCKER

TYPICAL FOR 15" & 18" WIDE, ALLOW 1/16" CREEPAGE PER FRAME

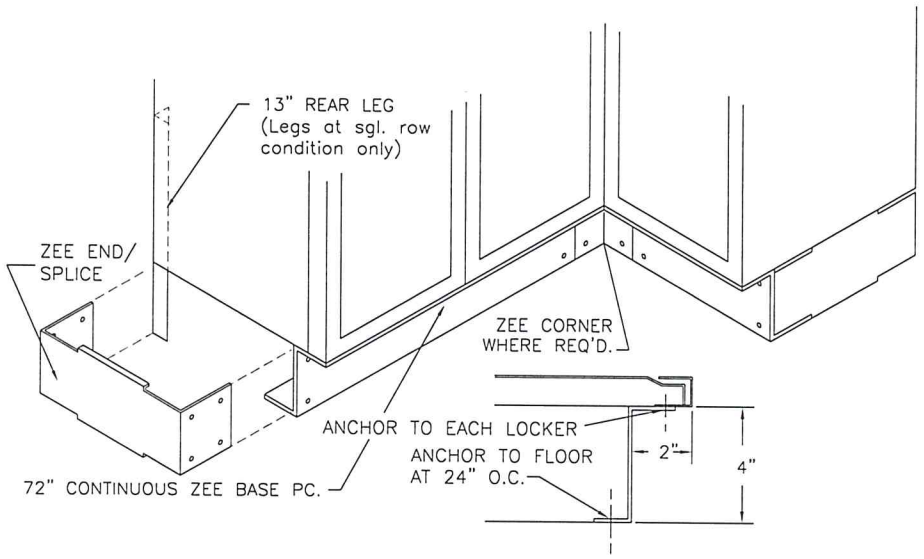
TYPICAL FOR 12" & 15" DEEP

This drawing shows a standard Penco Product. Any modifications to the product must be approved by Penco Engineering. 8/6/2001

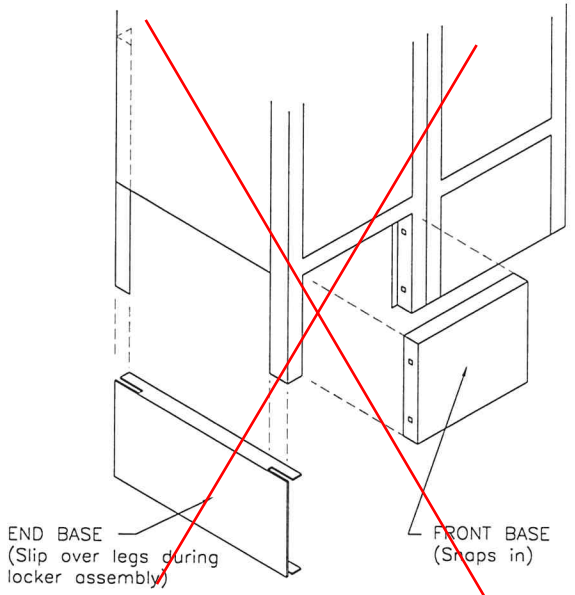
PENCO

151272V.dwg

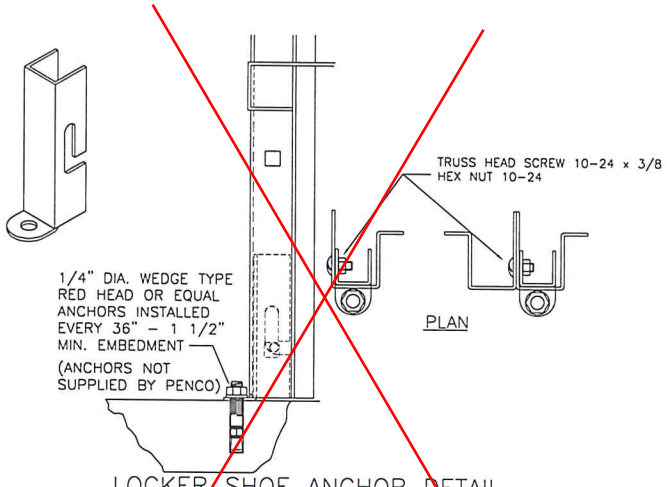
EXHIBIT 'E'



ZEE BASE DETAIL



6" LEGS W/ BASE



LOCKER SHOE ANCHOR DETAIL
(LOCKER SHOE ANCHOR OPTIONAL)
ANCHOR LOCKERS @ 36" O.C.

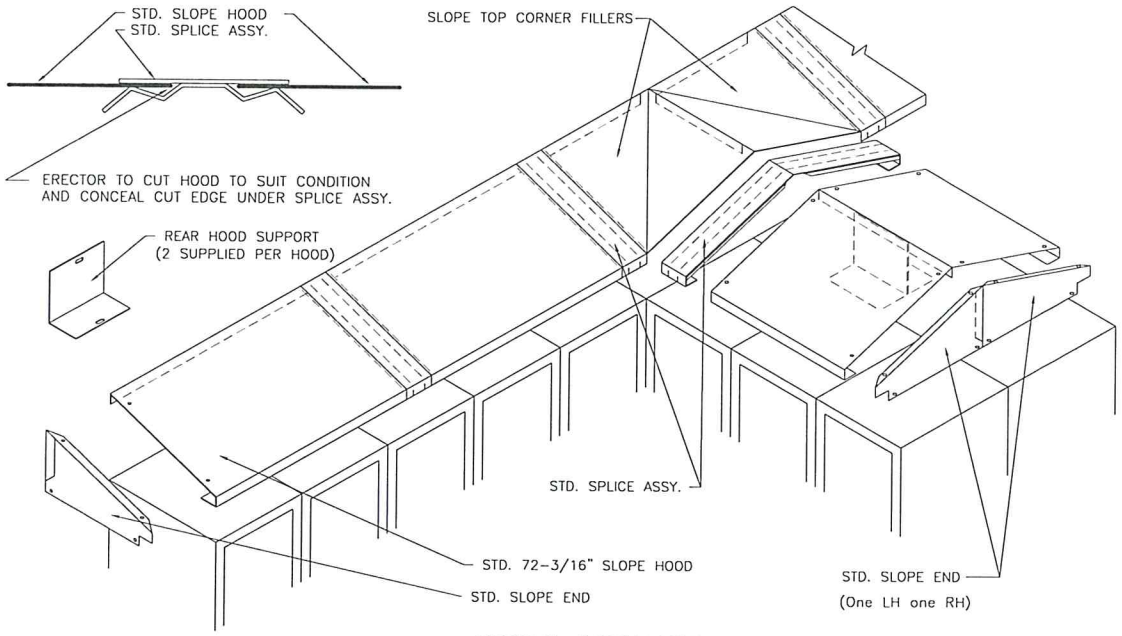
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LOCKER BASE DETAILS

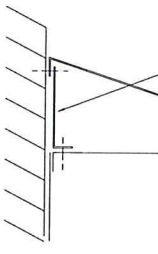
PENCO

BASES.dwg

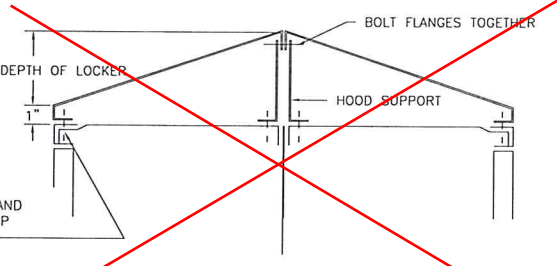
EXHIBIT 'E'



TYPICAL INSTALLATION



DETAIL OF SINGLE ROW SLOPE HOOD AT WALL



DETAIL OF DOUBLE ROW SLOPE HOOD

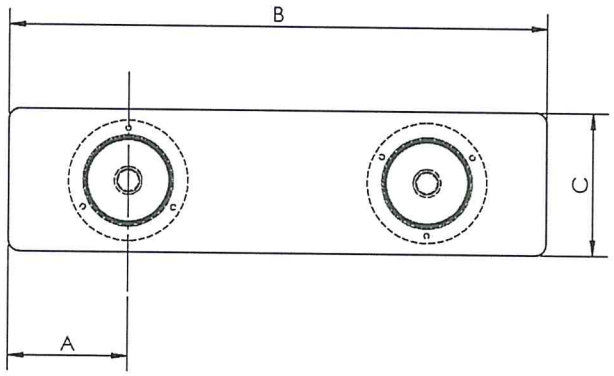
This drawing shows a standard Penco Product. Any modifications to the product must be approved by Penco Engineering. 8/6/2001

SLOPE HOOD INSTALLATION DETAILS

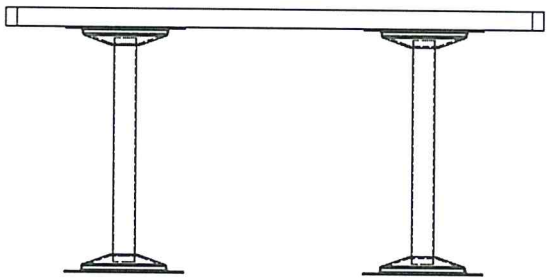
PENCO

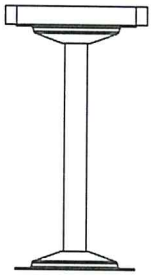
HOODS.dwg

EXHIBIT 'E'









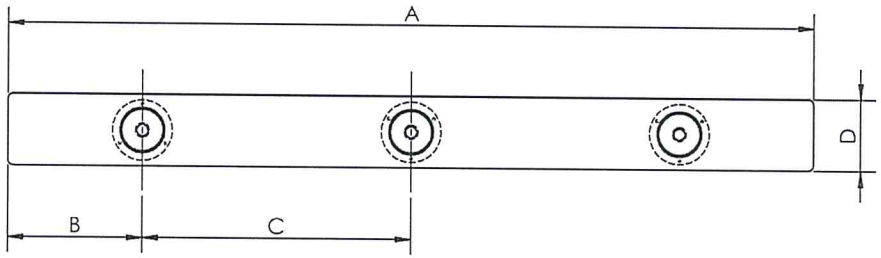
BENCH	A	B	C
3 FT	8"	36"	9.5"
4 FT	8"	48"	9.5"
5 FT	8"	60"	9.5"
6 FT	1'	72"	9.5"
7 FT	1'	84"	9.5"
8 FT	1' - 6"	96"	9.5"

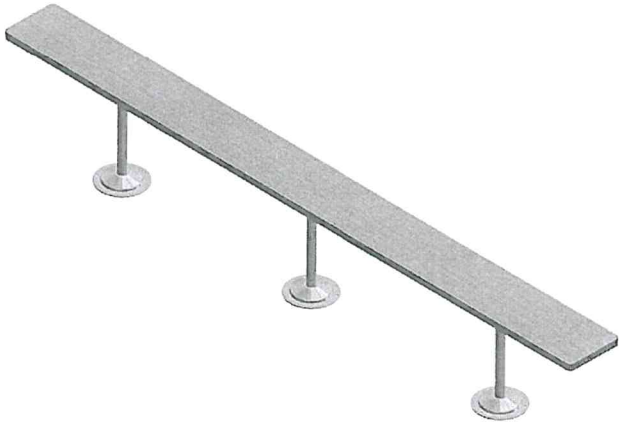
Title:
Locker Accessories
9 1/2"x 36" Wood Bench w/ (2) Heavy Duty Pedestals

Part No:	Scale:	Date:	Weight:
9611	NTS	5/10/17	23 lb.

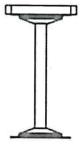
PENCO
www.pencoproducts.com
800-562-1000

EXHIBIT 'E'









2 - Benches
36" x 9.5"

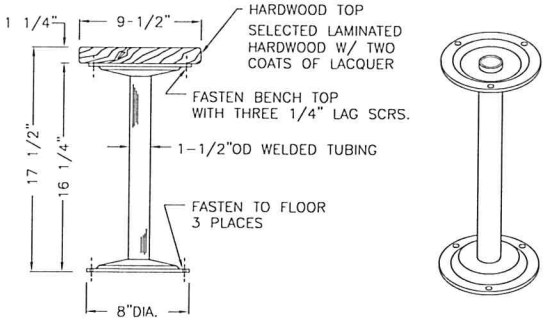
BENCH	A	B	C	D
9 FT	108"	1' - 6"	3'	9.5"
10 FT	120"	1' - 6"	3' - 6"	9.5"
11 FT	132"	1' - 6"	4'	9.5"
12 FT	144"	1' - 6"	4' - 6"	9.5"

Title:
Locker Accessories
9 1/2"x 108" Wood Bench w/ (3) Heavy Duty Pedestals

Part No:	Scale:	Date:	Weight:
9605	NTS	5/11/17	52 lb.

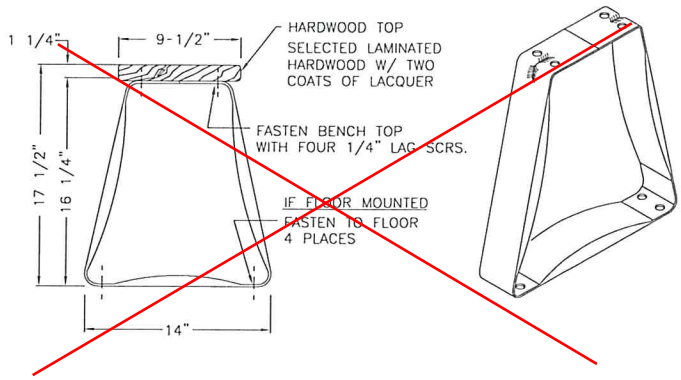
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800-562-1000

EXHIBIT 'E'



BENCH & HEAVY DUTY PEDESTAL DETAIL

BAKED ENAMEL TO MATCH LOCKER



BENCH & STAINLESS STEEL PEDESTAL DETAIL

PEDESTALS ARE UNPAINTED STAINLESS STEEL

BENCH & PEDESTAL DETAILS

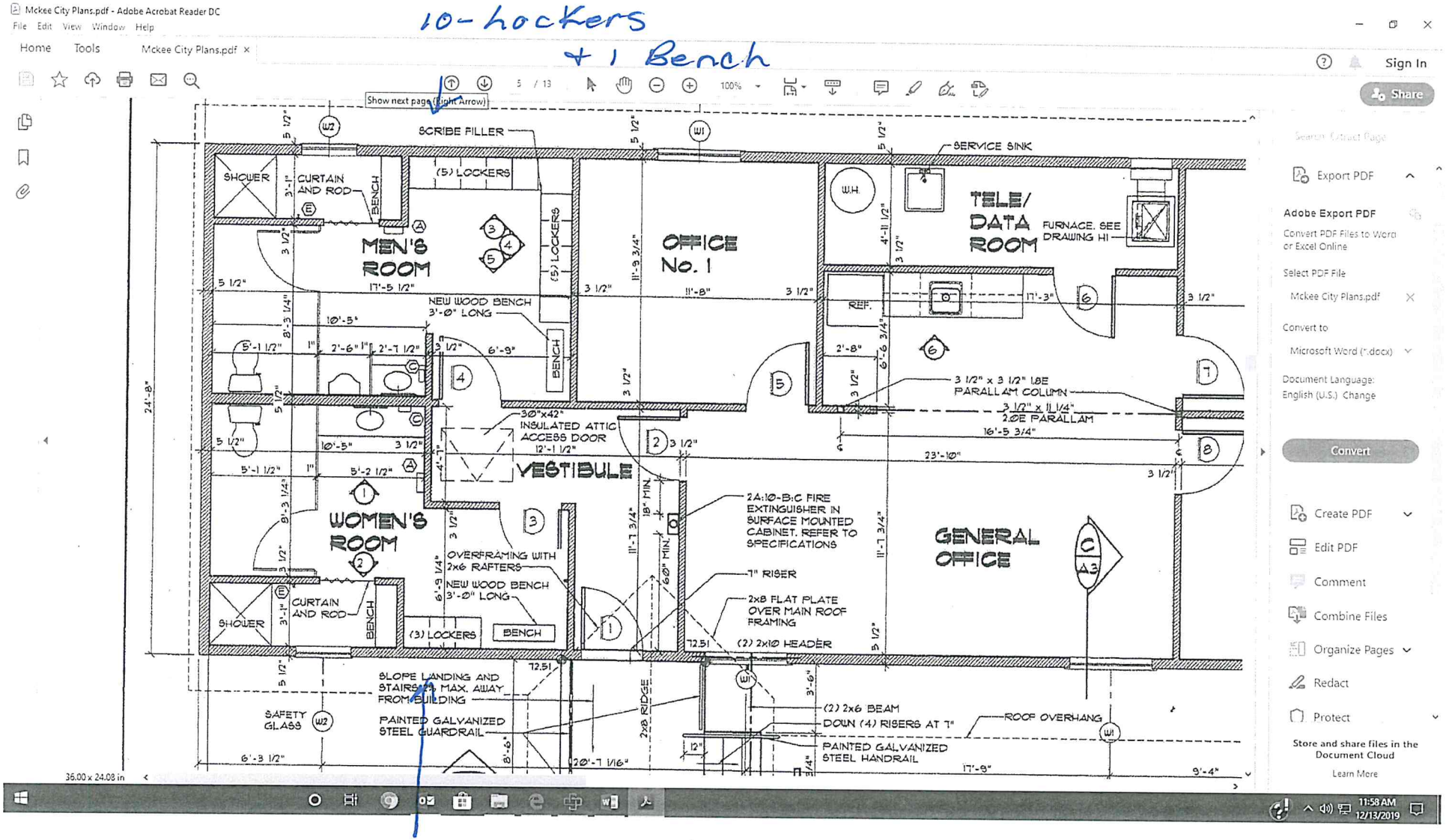
This drawing shows a standard Penco Product. Any modifications to the product must be approved by Penco Engineering. 8/6/2001

PENCO

pedestals.dwg

layouts

EXHIBIT 'E'



Locker + Bench Elevation

EXHIBIT 'E'

Mckee City Plans.pdf - Adobe Acrobat Reader DC

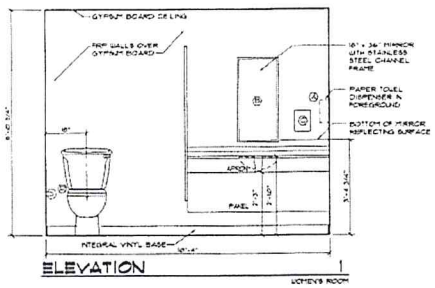
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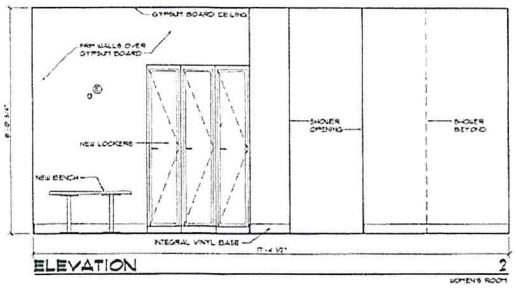
Home Tools Mckee City Plans.pdf ×

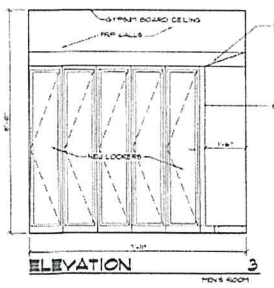
8 / 13 50%

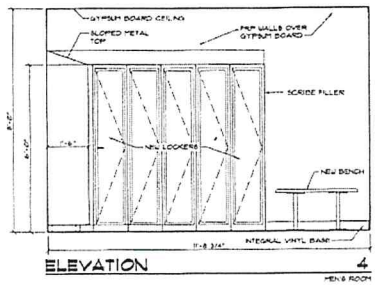
Sign In

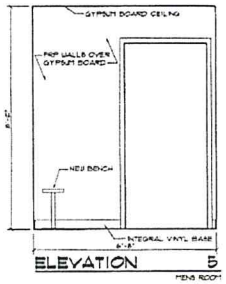
Share

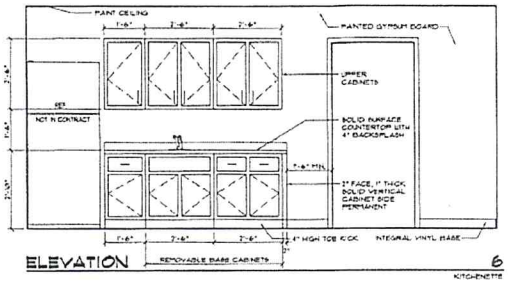








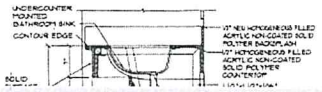




INTERIOR ELEVATIONS

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

TOILET ROOM ACCESSORY SCHEDULE			
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER
A	PAPER TOWEL DISPENSER	BOBRICK	B-262
B	MIRROR, 18"x 36"	BOBRICK	B-165 2436
C	SOAP DISPENSER, SURFACE MTD.	BOBRICK	B-262



NEW OFFICE BUILDING
DOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

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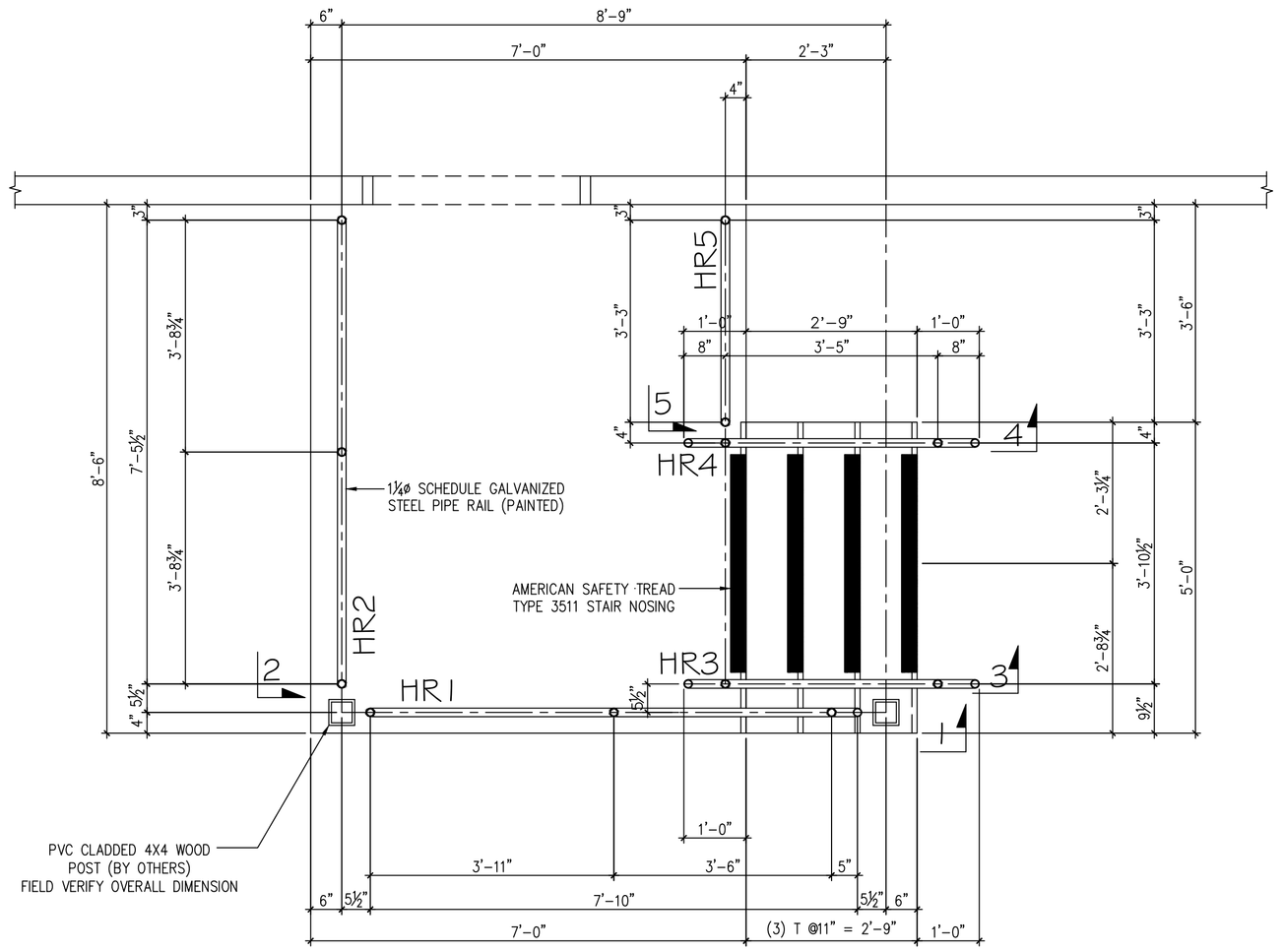
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36.00 x 24.56 in

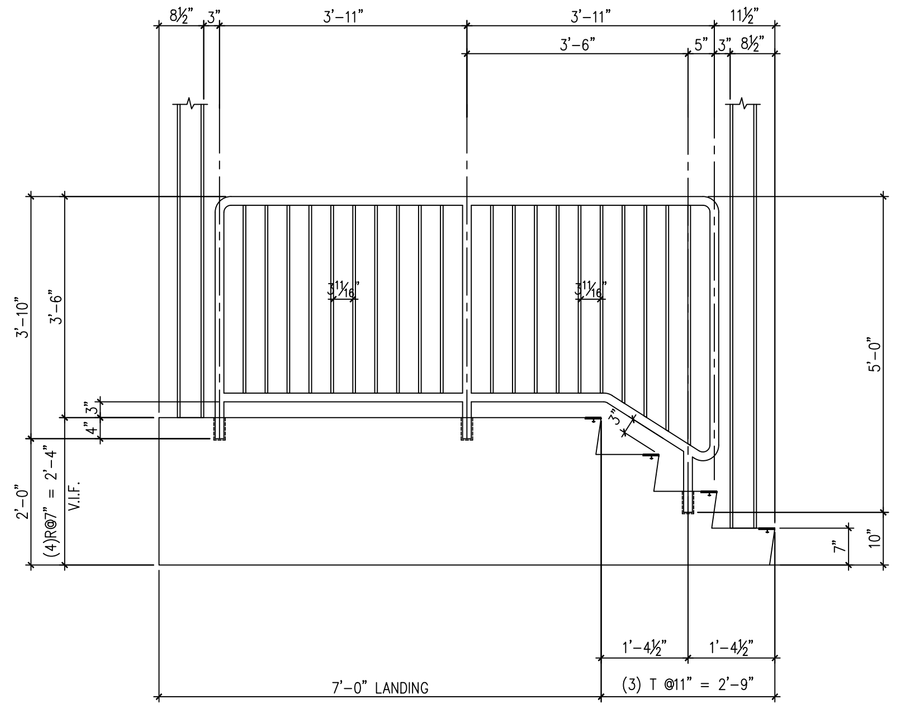
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4:26 PM 10/1/2019

EXHIBIT 'E'

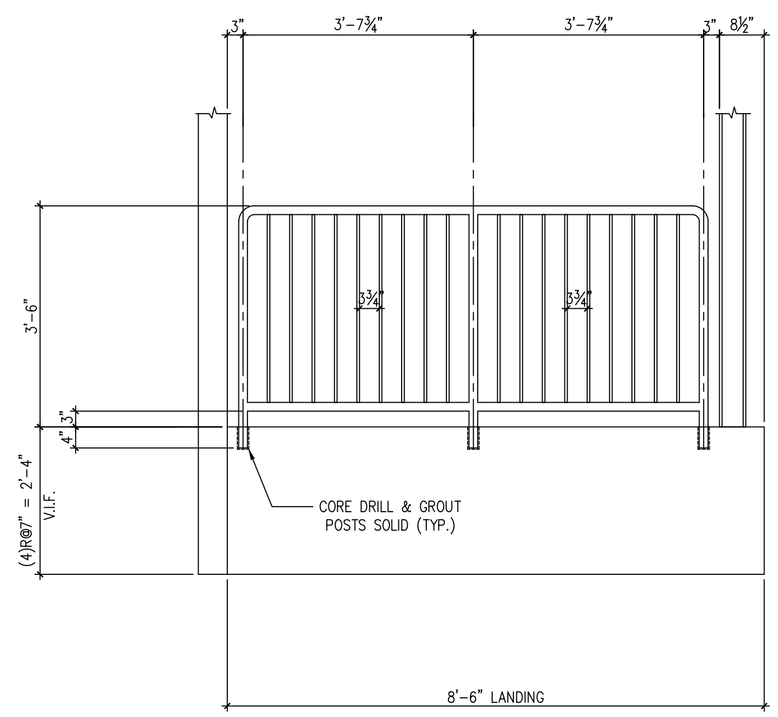


ENLARGED PARTIAL PLAN @ STAIR



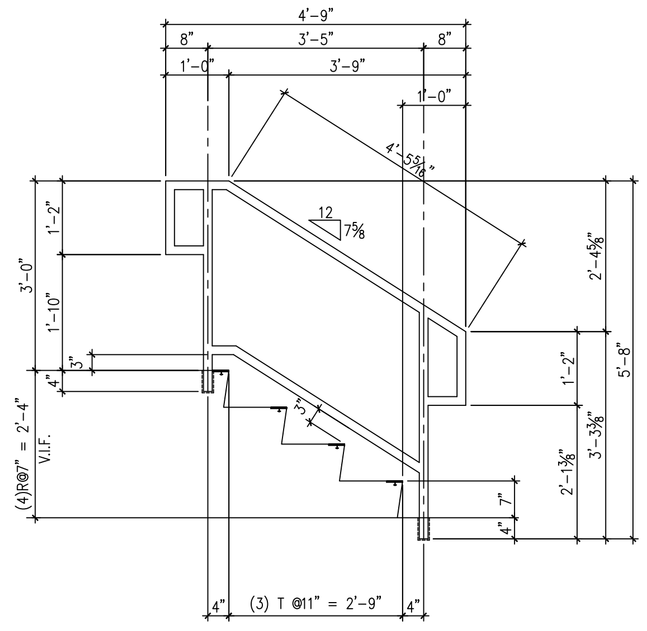
ONE - GUARDRAIL ~ HR1

SECTION # 1



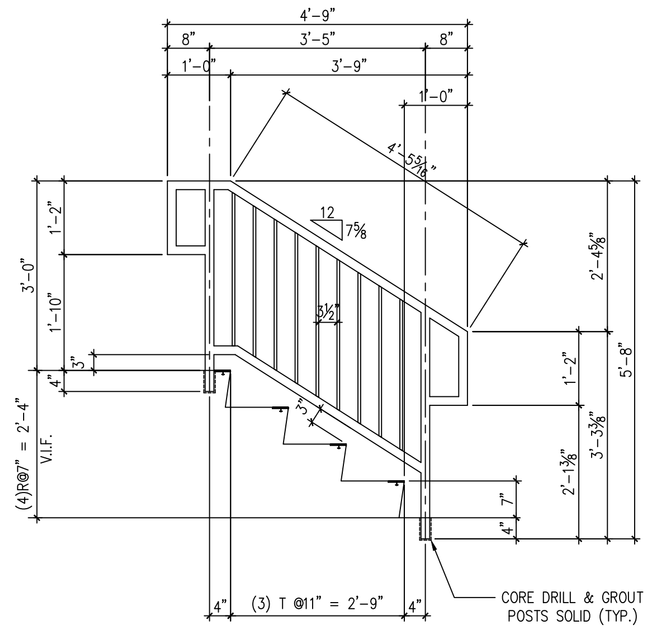
ONE - GUARDRAIL ~ HR2

SECTION # 2



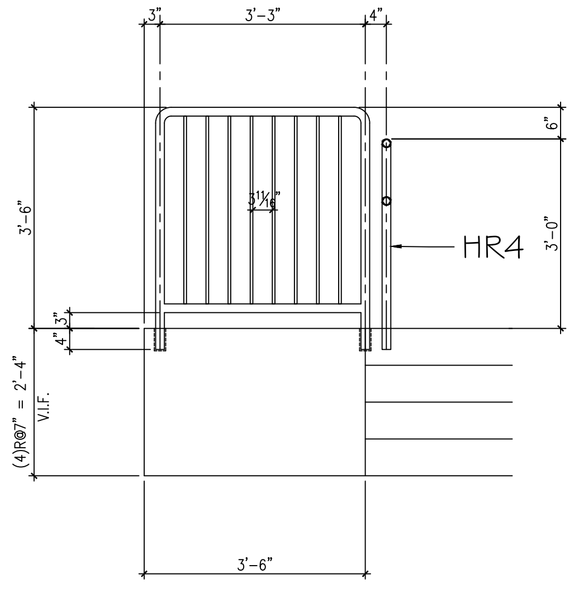
ONE - GUARDRAIL ~ HR3

SECTION # 3



ONE - GUARDRAIL ~ HR4

SECTION # 4



ONE - GUARDRAIL ~ HR5

SECTION # 5

RAILING CONSTRUCTION

Schedule 80

POSTS & RAILS: 1¼ø SCHEDULE 40 STEEL PIPE 1.66" O.D.
PICKETS: 1/2ø SOLID ROUND BAR

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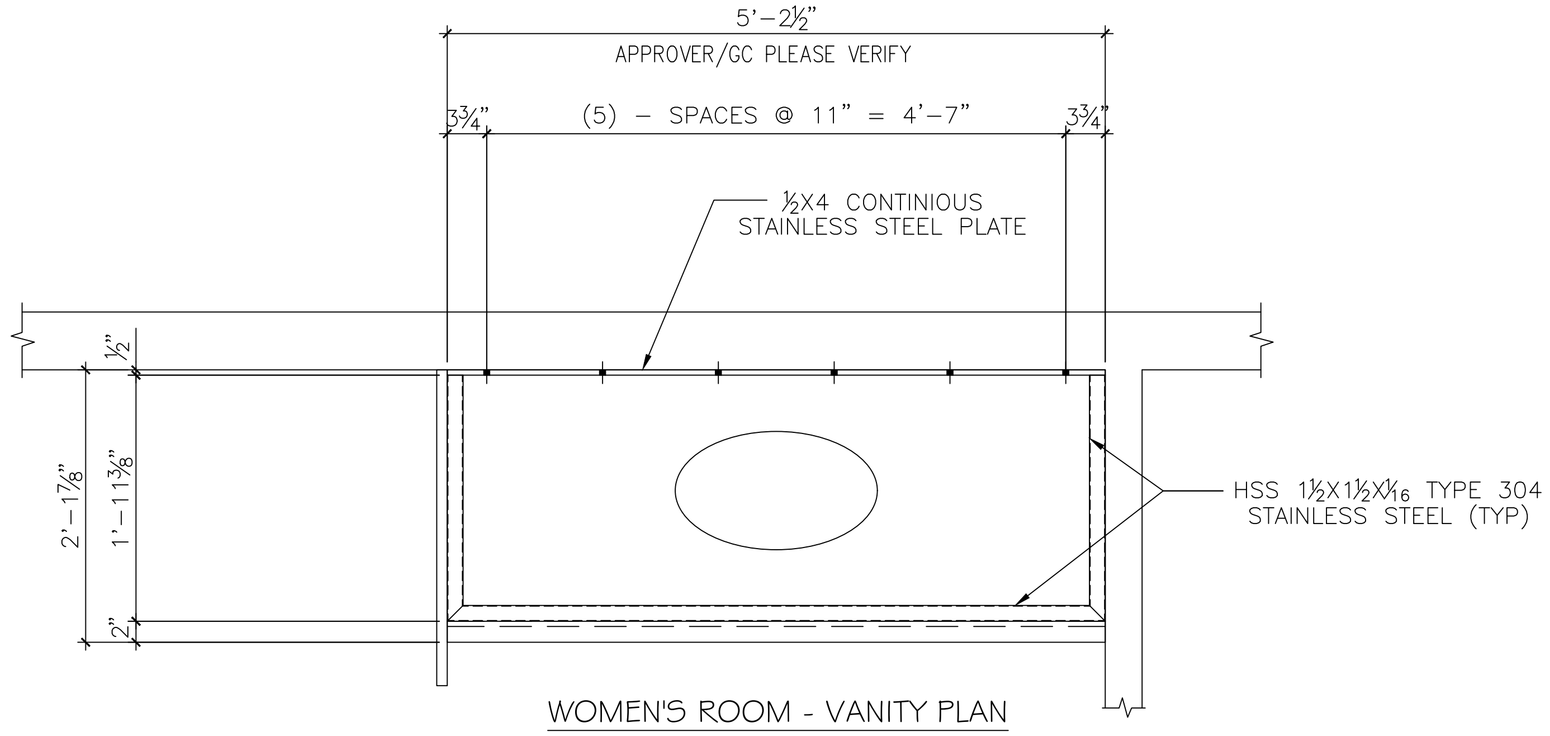
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MATERIAL			
TC BOLTS ASTM 3/4ø A325-N	5		
HOLES 13/16 ø UNO	4		
SHOP WELDS E70XX FIELD WELDS E70XX LH	3		
SURFACE PREP. SSPC – SP2	2		
FINISH ONE COAT SHOP PRIMER	1		
NOTES	NO	DATE	REVISIONS

WELD-DONE WELDING CO., INC
20 WOODLAND AVENUE
HURFFVILLE, NJ 08080
PHONE: (856) 582-7080
FAX: (856) 582-2002

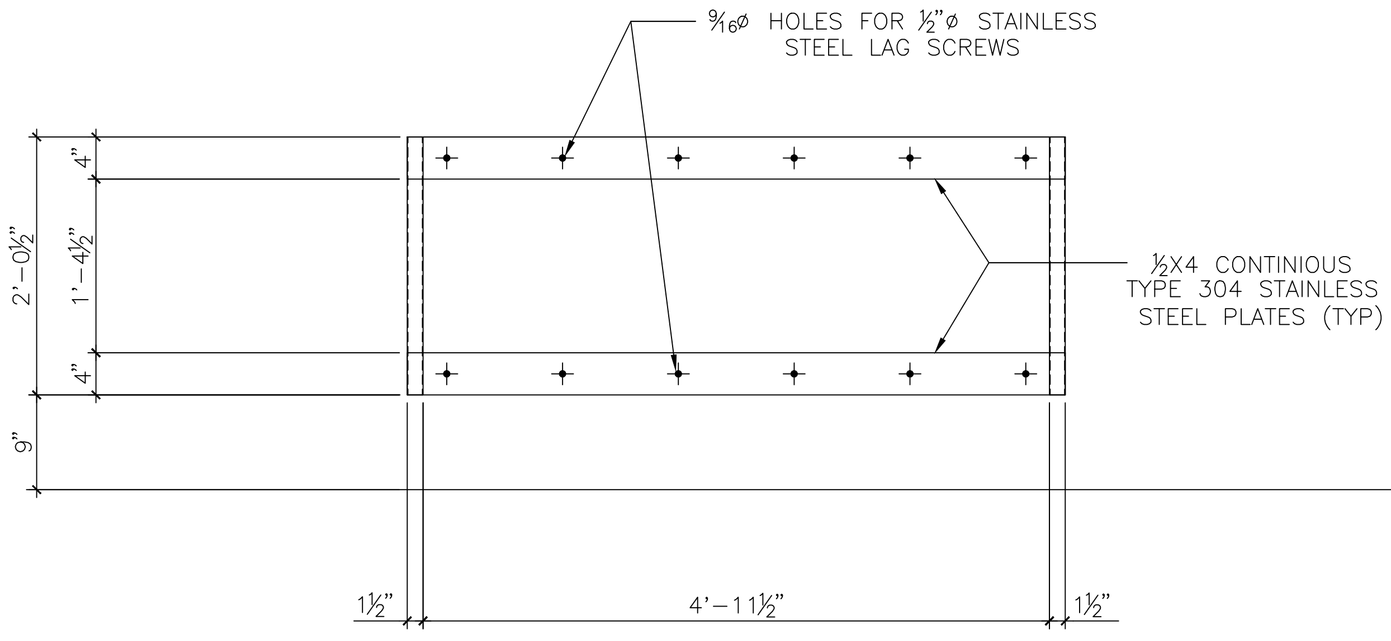
ARCHITECT: David A. Clark	CONTRACTOR: W. J. Gross	
DRAFTER JBG DATE: 11.07.19	NEW OFFICE BUILDING NJDOT MCKEE CITY MAINTENANCE YARD	PROJECT NO. 19064
CHECKED TD DATE: 11.07.19	RAILING FRAMING PLAN & DETAILS	DRAWING NO. M1

EXHIBIT 'E'

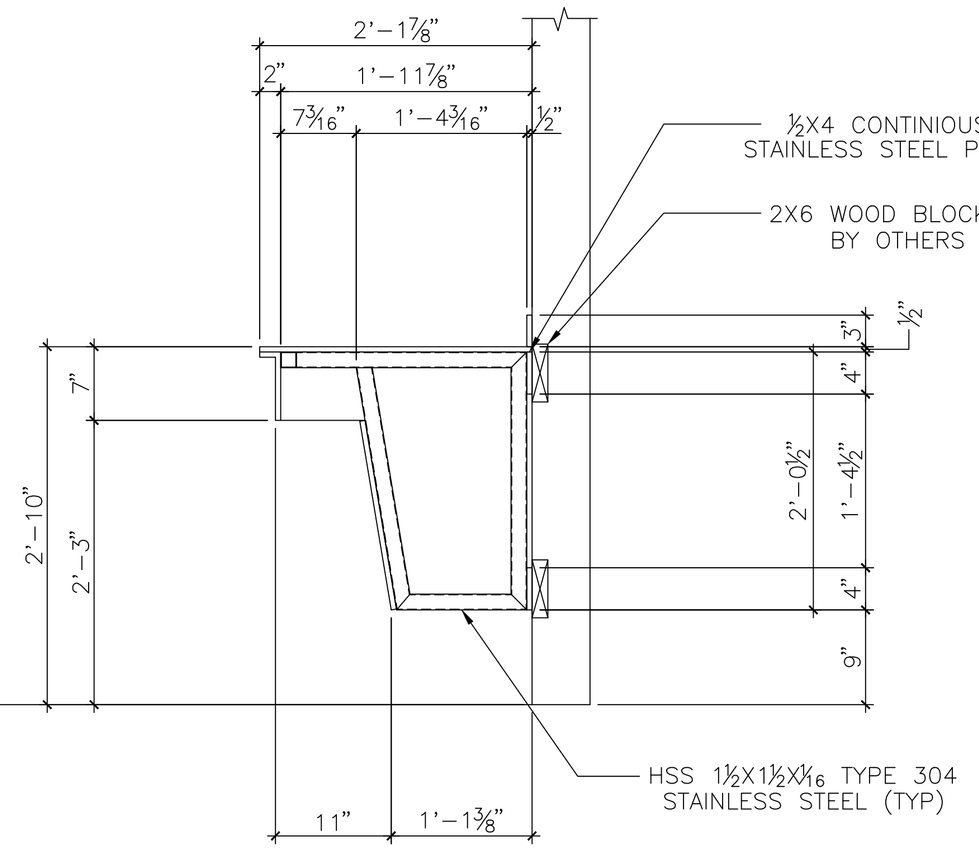
Submit separately with Countertops, Sinks, Backsplash Shop Drawings.



WOMEN'S ROOM - VANITY PLAN



VANITY FRAME - FRONT ELEVATION



VANITY FRAME - SIDE ELEVATION

ONE - STAINLESS STEEL FRAME - MARK ~ VF1

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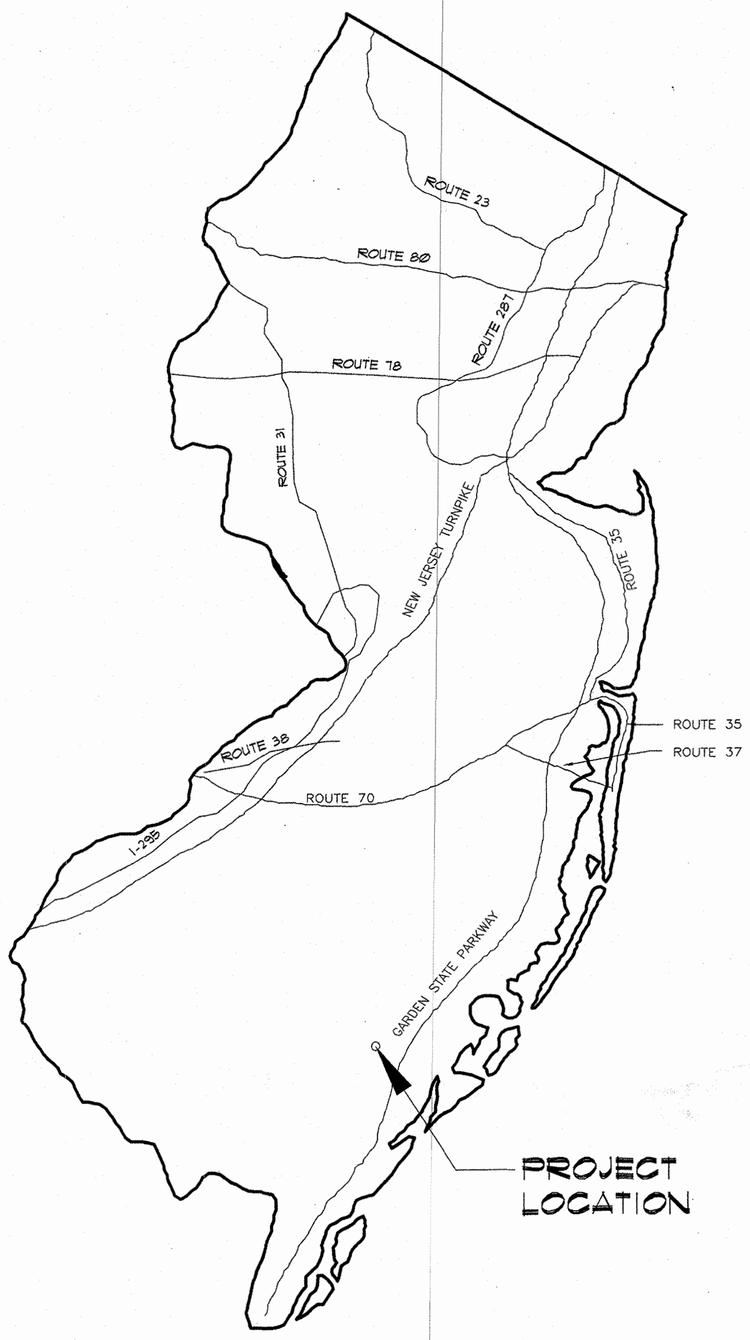
MATERIAL	ASTM A992			
MATERIAL				
TC BOLTS	ASTM 3/4ø A325-N	5		
HOLES	13/16 ø UNO	4		
SHOP WELDS E70XX	FIELD WELDS E70XX LH	3		
SURFACE PREP.	SSPC - SP2	2		
FINISH	ONE COAT SHOP PRIMER	1		
NOTES		NO	DATE	REVISIONS

WELD-DONE WELDING CO., INC
20 WOODLAND AVENUE
HURFFVILLE, NJ 08080
PHONE: (856) 582-7080
FAX: (856) 582-2002

ARCHITECT: David A. Clark	CONTRACTOR: W. J. Gross	
DRAFTER JBG DATE: 11.07.19	NEW OFFICE BUILDING NJDOT MCKEE CITY MAINTENANCE YARD	PROJECT NO. 19064
CHECKED TD DATE: 11.07.19	VANITY FRAMING PLAN & DETAILS	DRAWING NO. M2

AS BUILTS
W. J. GROSS, INC.
10/30/20

NEW OFFICE BUILDING
DOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT No. T0593-00



SITE LOCATION PLAN
NOT TO SCALE

STATE OF NEW JERSEY
HONORABLE PHILIP D. MURPHY, GOVERNOR
HONORABLE SHEILA Y. OLIVER, LIEUTENANT GOVERNOR

DEPARTMENT OF THE TREASURY
ELIZABETH MAHER MUOIO, STATE TREASURER

DIVISION OF PROPERTY MANAGEMENT AND CONSTRUCTION
CHRISTOPHER CHIANESE, DIRECTOR

NJDOT ACTING COMMISSIONER
DIANE GUTIERREZ-SCACCETTI

INDEX OF DRAWINGS

T1	TITLE SHEET
S1	SITE PLAN
S2	EROSION AND SEDIMENT CONTROL PLAN
SU1	SITE UTILITY PLAN
A1	FOUNDATION PLAN AND FLOOR PLAN
A2	ELEVATIONS
A3	SECTION AND DETAILS
A4	INTERIOR ELEVATIONS
P1	PLUMBING PLAN AND NOTES
P2	PLUMBING RISERS, SCHEDULES, AND DETAILS
H1	HVAC PLAN, SCHEDULES, AND DETAILS
E1	ELECTRICAL FLOOR PLAN AND NOTES
E2	ELECTRICAL RISER, DIAGRAMS, AND SCHEDULES

CONSTRUCTION CODES
INTERNATIONAL BUILDING CODE 2015, NEW JERSEY EDITION
NATIONAL ELECTRICAL CODE, 2014.
NATIONAL STANDARD PLUMBING CODE, 2015.
INTERNATIONAL ENERGY CONSERVATION CODE, 2015
INTERNATIONAL MECHANICAL CODE, 2015
ASHRAE 90.1-2013, ENERGY STANDARDS FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL.

BUILDING CRITERIA
NEW OFFICE BUILDING

USE GROUP:	B-BUSINESS
CONSTRUCTION CLASSIFICATION:	VB
BUILDING HEIGHT:	1 STORY, 14'-3"
AREA:	1,440 S.F.

DESIGN LOAD CRITERIA

FLOOR LIVE LOAD:	
LIVE LOAD OFFICE	50 PSF
FLOOR DEAD LOAD:	15 PSF
ROOF LIVE LOAD:	
LIVE LOAD:	20 PSF
SNOW LOAD:	
Pg (GROUND SNOW LOAD):	20 PSF
Pf (FLAT SNOW LOAD):	12.6 PSF
Ce (SNOW EXPOSURE FACTOR):	0.9
I (SNOW LOAD IMPORTANCE FACTOR):	1.0
Ct (THERMAL FACTOR):	1.0
Pm (MINIMUM SNOW LOAD):	20
ROOF DEAD LOAD:	15 PSF
ATTIC LIVE LOAD:	10 PSF
ATTIC DEAD LOAD:	15 PSF
WIND LOAD:	
BASIC WIND SPEED:	121 MPH
I (WIND IMPORTANCE FACTOR):	1.0
WIND EXPOSURE:	B
MAIN WIND RESISTANCE PRESSURE:	18.56 PSF
INTERNAL PRESSURE COEFFICIENT:	0.18
COMPONENTS AND CLADDING WIND PRESSURE:	

ZONE	PSF	PSF	
1	-17.8	+ 18.3	ROOF
2	-29.9	+ 18.3	ROOF
3	-45.0	+ 18.3	ROOF
4	-19.3	+ 17.8	WALL
5	-29.9	+ 16.3	WALL

EARTHQUAKE DESIGN DATA:	
SEISMIC DESIGN CATEGORY:	E
ANALYSIS PROCEDURE:	SIMPLIFIED ALTERNATE DESIGN
RISK CATEGORY:	II
Ss (SPECTRAL RESPONSE COEFFICIENT):	1.14%
Fa SOIL COEFFICIENT):	1.4
RESPONSE MODIFICATION FACTOR:	7
BASE SHEAR:	1.975*
FIRE RATING FOR EXTERIOR WALLS:	0 RATING
MAXIMUM OCCUPANCY:	30
SOIL BEARING CAPACITY:	2,000 P.S.F.

ABBREVIATIONS

MAX	MAXIMUM
MIN	MINIMUM
O.C.	ON CENTER(S)
TYP	TYPICAL
W.H.	WATER HEATER

SUBMISSION	BY	DATE
FINAL	TJL	02/26/18
FINAL 2	TJL	06/13/18
FINAL 3	TJL	07/02/18
PERMIT/BID	LD	07/17/19

DAVID A. CLARK, ARCHITECT 17149

rasa
RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE – PLANNING – DESIGN
405 RICHMOND AVENUE
POINT PLEASANT BEACH, NEW JERSEY 08742
(732) 701-9444 FAX 701-9919 E-MAIL ARCHITECTS@RASALLC.COM

T1

EXHIBIT 'E'

EXHIBIT 'E'

BORING LOGS

TEST BORING LOG

Boring Contractor:	Talmore Drilling Corp	Project:	NJ DOT Office Trailer
	Mantua Township, NJ	Project Location:	McKee City, NJ
Boring Foreman:	Steve Anderson	Project Number:	05.0340.01
Drilling Method:	Hollow Stem Augar	Boring Log:	B-1
Drill Rig Manufacturer:	D-120		
Drill Rig Representative:	E. Buss		
Dates:	Started: 11/10/05 Finished: 11/10/05		

GROUNDWATER OBSERVATIONS

Encountered	Depth 20 FEET
Completion	
Elevation	SEE TEST BORING LOCATION PLAN

Page 1 of 1

SAMPLING DATA				STRATA DESCRIPTION		REMARKS
SS1	2-2-2-2	A	SW	Brown coarse to fine SAND, little fine Gravel.		
SS2	2-2-2-2			Red brown coarse to fine SAND and fine GRAVEL		
SS3	1-1-2-2			Red brown coarse to fine SAND, little fine Gravel, trace Silt		
SS4	1-1-2-2		SW-SM	Red brown coarse to fine SAND, little fine Gravel, trace Silt	4.0	Ripbon bouncing at 6.5' Auger to 9'
SS5	1-2-2-2			Light brown coarse to medium SAND and medium fine GRAVEL		
SS6	1-2-3-3	B	SW	Orange brown to light brown coarse to fine SAND		
SS7	4-5-5-4			Mixture brown coarse to fine SAND, damp		
SS8	14-9-11		SP-SM	Mixture medium fine SAND, trace Silt, trace Fine Gravel, wet	22.7	
				Boring Terminated at 20 feet.		

TOWNSHIP OF EGG HARBOR

COUNTY OF ATLANTIC

N/F ATLANTIC MENTAL HEALTH CENTER, INC.
BLOCK 1501
LOT 6

N/F ATLANTIC MENTAL HEALTH CENTER, INC.
BLOCK 1501
LOT 7

N/F SAM & JEAN WEINSTEIN & MICHAEL REILLY
BLOCK 1501
LOT 9

ROUTE 322/40 (88.5' wide) BLACK HORSE PIKE

Route 40/322 ½ Eastbound

Route 40/322 ½ Westbound

Existing R.O.W. Line

Existing R.O.W. Line

DELILAH RD. (66' wide) C.R. 640

EDGE OF PAVEMENT

PT. #9263 Granite Mon.(Fd.)

PT. #9262 GRANITE MON.(FD.) DISTURBED

PT. #9261 Granite Mon.(Fd.)

PT. #9112 Granite Mon.(Fd.)

PT. #100 Stone 326.4 (NGVD) N.DOT Mon.(Fd.) Elev. 9.72.51

N28°32'14"E 882.84'

N61°51'16"W 219.98'

S28°32'14"W 861.42'

S11°22'22"E 214.67'

AREA = 4.500 Acres

BORING LOCATION

EXISTING WOOD SALT SHED

EXISTING CONC. PAD CALCIUM CHLORIDE TANK

EXISTING BITUMINOUS PAVEMENT

EXISTING MASONRY SHED

EXISTING CORRUGATED METAL BLDG.

EXISTING BLDG CONC. PAD #1561

EXISTING WOODEN GARAGE W/BLOCK FOUNDATION

EXISTING CONC. PAD DIESEL TANK

EXISTING GAS PUMPS

EXISTING PUMP HOUSE

SWALE INV. 66.44

GUY POLE

BLDG #1560

BLDG #1562

BLDG #1565

BLDG #1559

BLDG #1566

BLDG #1561

BLDG #1563

BLDG #1564

WOODEN BULKHEAD

GUIDERAIL

18" PINES

18" OAK

12" TREES

CONC. CURB

SAND STOCKPILE

OIL & STONE PAVT

DIRT

GRAVEL

GRASS

WOODS

POST

GUY

RIM 69.93

SAN. M.H. EXISTING CESSPOOL

Gr.=68.25 INV. 66.32

NEW SILT FENCE. SEE DETAIL ON DRAWING S2

Conc. Post

Rebar(Fd.) on line

0.85ft.

6' CHAIN LINK FENCE

0.94ft.

Meter Cabinet

316.31

60.00

PROPOSED 578 S.F. (18'x32') SRB DISPOSAL FIELD

PROPOSED 1000 GALLON SEPTIC TANK WITH EFFLUENT FILTER

SEE ENLARGED SITE PLAN. THIS SHEET.

REMOVE EXISTING PAVEMENT FOR INSTALLATION OF FOUNDATION. RESTORE PAVEMENT AND SLOPE DOWN AWAY FROM NEW BUILDING AT 5% MINIMUM AND FLUSH WITH CUT LINE OF EXISTING PAVEMENT

NEW CONCRETE LANDING. ELEVATION 71.92'

NEW 24'-8"x 60'-0" BUILDING

CLEAR SITE AS REQUIRED. REMOVE EXISTING PAVEMENT AND ESTABLISH NEW LAWN

EXISTING CORRUGATED METAL OFFICE BUILDING AND EXISTING CESSPOOL TO REMAIN

LEGEND

- EXISTING AND REPLACED BITUMINOUS PAVEMENT. SEE ENLARGED SITE PLAN THIS SHEET FOR LOCATIONS OF PAVEMENT TO BE REMOVED AND REPLACED
- EXISTING PAVEMENT TO BE REMOVED. ESTABLISH NEW LAWN
- NEW BUILDING

SITE PLAN WAS BASED ON INFORMATION FROM A SURVEY BY NJDOT SURVEY SOUTH 1 EXECUTIVE CAMPUS RTE 70 WEST CHERRY HILL, NJ. 08002 FIELDBOOK H-137 CADD FILENAME : MYARD.DGN DIR : FIELDSURVEY/F5555553/

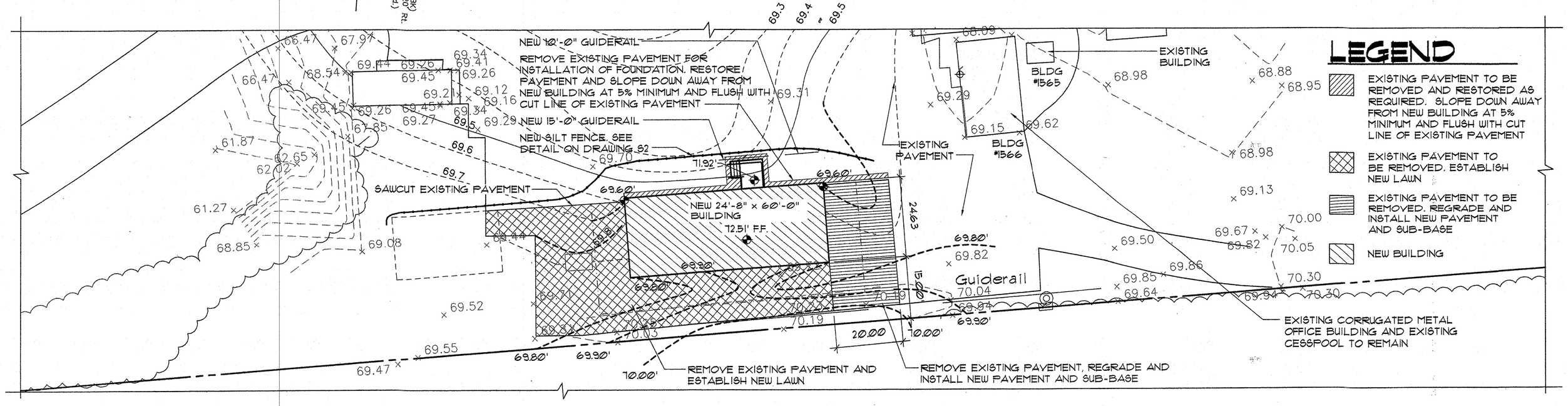
SITE PLAN

SCALE: 1" = 40'

GENERAL NOTES:

1.) ESTABLISH LAWN AT LOCATIONS OF DEMOLITIONS.

AS BUILTS
W. J. GROSS, INC.
10/30/20



LEGEND

- EXISTING PAVEMENT TO BE REMOVED AND RESTORED AS REQUIRED. SLOPE DOWN AWAY FROM NEW BUILDING AT 5% MINIMUM AND FLUSH WITH CUT LINE OF EXISTING PAVEMENT
- EXISTING PAVEMENT TO BE REMOVED. ESTABLISH NEW LAWN
- EXISTING PAVEMENT TO BE REMOVED. REGRADE AND INSTALL NEW PAVEMENT AND SUB-BASE
- NEW BUILDING

ENLARGED SITE PLAN

SCALE: 1" = 20'

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

SITE PLAN

SUBMISSION	BY	DATE
FINAL	TJL	02/26/18
FINAL 2	TJL	06/13/18
FINAL 3	TJL	02/28/19
FINAL 4	LD	07/10/19
PERMIT/BID	LD	07/17/19

RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE – PLANNING – DESIGN
405 RICHMOND AVE.
POINT PLEASANT BEACH, NEW JERSEY

EASTERN CONSULTANTS
CONSULTING ENGINEERS
2211 LEHIGH ST. P.O. BOX 4539
EASTON, PENNSYLVANIA 18043

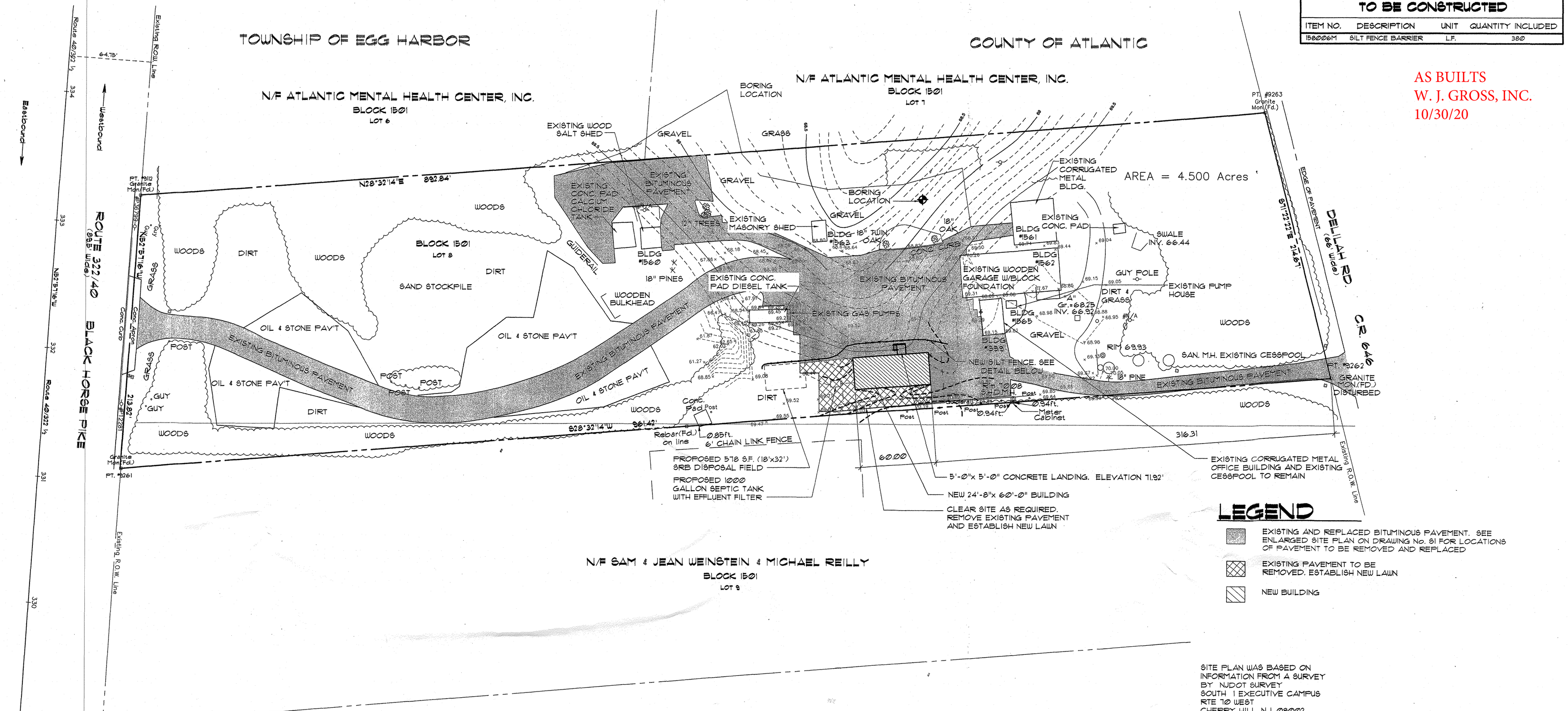
DAVID A. CLARK, ARCHITECT 17149

S1

EXHIBIT 'E'

TO BE CONSTRUCTED			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY INCLUDED
150006M	SILT FENCE BARRIER	L.F.	380

AS BUILTS
W. J. GROSS, INC.
10/30/20



LEGEND

- EXISTING AND REPLACED BITUMINOUS PAVEMENT. SEE ENLARGED SITE PLAN ON DRAWING No. 61 FOR LOCATIONS OF PAVEMENT TO BE REMOVED AND REPLACED
- EXISTING PAVEMENT TO BE REMOVED. ESTABLISH NEW LAWN
- NEW BUILDING

SITE PLAN WAS BASED ON INFORMATION FROM A SURVEY BY NJDOT SURVEY SOUTH 1 EXECUTIVE CAMPUS RTE 70 WEST CHERRY HILL, N.J. 08002 FIELDBOOK H-137 CADD FILENAME : MYARD.DGN DIR : FIELDSURVEY/F5555553/

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 40'

SOIL EROSION AND SEDIMENT CONTROL GENERAL NOTES

1). ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN THE NEW JERSEY DEPARTMENT OF TRANSPORTATION ACCORDANCE WITH AND SECTION 15B STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

2). ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES OR CONSTRUCTION OPERATION IN THEIR PROPER SEQUENCE. AREAS OF PROPOSED CONSTRUCTION SHALL BE CLEARED ONLY AS REQUIRED. CAUTION (SNOW) AND SILT FENCES ARE TO BE INSTALLED PRIOR TO ANY GRUBBING, CLEARING, GRADING OR OTHER EARTH DISTURBING OR CONSTRUCTION OPERATION. ALL INLETS SHALL BE PROTECTED WITH AN INLET FILTER IMMEDIATELY AFTER INITIAL SITE DISTURBANCE+ A CONSTRUCTION DRIVEWAY SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH SECTION 15B OF THE STANDARD SPECIFICATIONS. SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND INSPECTED ON A REGULAR BASIS UNTIL PERMANENT PROTECTION IS ESTABLISHED.

3). DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE ENGINEER. ADDITIONAL STABILIZATION MEASURES SHALL BE REQUIRED IF EROSION OCCURS ALONG THE EDGES OF THE PAVEMENT.

4). ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN FOURTEEN (14) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT.

5). AT THE TIME WHEN PREPARING THE SITE FOR PERMANENT VEGETATIVE STABILIZATION INCLUDE PERMANENT GRASS SEEDING AND PROVISION FOR TEMPORARY SEEDING AS NECESSARY. IF THE REMOVAL OR TREATMENT OF THE SOIL DOES NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATIONS WILL HAVE TO BE EMPLOYED.

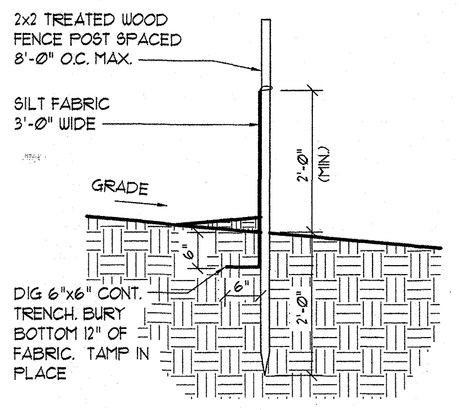
6). PERMANENT VEGETATION SHALL BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH SHALL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.

7). ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS SHALL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO NJDOT. THE REVISED PLANS MUST MEET ALL CURRENT NJDOT SOIL EROSION AND SEDIMENT CONTROL STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF THE ONGOING CONSTRUCTION.

8). THE CONTRACTOR IS RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORM-WATER OUTFALLS OR OFFSITE AS RESULT OF CONSTRUCTION OF THE PROJECT. DEWATERING SHALL NOT BE DISCHARGED DIRECTLY ONTO ANY WATERWAY.

9). IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOIL ANY SOIL HAVING A PH OF 4 OR LESS CONTAINING IRON SULFIDES SHALL BE COVERED WITH A LAYER OF LIMESTONE AND A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION.

10). LAND DISTURBANCE = 9.506 SQ. FT.



SILT FENCE BARRIER

NOT TO SCALE

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD BLOCK 1501 LOT 8
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

EROSION AND SEDIMENT CONTROL PLAN

SUBMISSION	BY	DATE
FINAL	TJL	02/26/18
FINAL 2	TJL	06/13/18
FINAL 3	TJL	02/28/19
FINAL 4	LD	07/10/19
PERMIT/BID	LD	07/17/19

RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE – PLANNING – DESIGN
405 RICHMOND AVE.
POINT PLEASANT BEACH, NEW JERSEY

EASTERN CONSULTANTS
CONSULTING ENGINEERS
2211 LEHIGH ST. P.O. BOX 4539
EASTON, PENNSYLVANIA 18043

DAVID A. CLARK, ARCHITECT 17149

S2

EXHIBIT 'E'

AS BUILTS
W. J. GROSS, INC.
10/30/20

AS-BUILTS
W.J. GROSS INC
10-30-20

N-322

1" - Meter Pit
1" - Comp 1"
3/4" - 3' to 1" - Fitting
3" poly service to Bldg.

McKEE City Asbuilt
Water Service Tie-in @
Black Horse Pike

EGG HARBOR

TAL HEALTH CENTER, INC.
CK 1801
OT 6

COUNTY OF ATLANTIC

N/F ATLANTIC MENTAL HEALTH CENTER, INC.
BLOCK 1801
LOT 7

BORING LOCATION

AREA = 4.500 Acres

ROUTE 322/40 (150' Wide)

BLACK HORSE PIKE

Eastbound

Westbound

Existing ROW Line

Pt. #262 Granite Mon.(Fd.)

Pt. #261 Granite Mon.(Fd.)

Pt. #263 Granite Mon.(Fd.)

DELILAH RD. (66' Wide) C.R. 646

EDGE OF PAVEMENT

Existing R.O.W. Line

N28°32'14"E 892.84'

S28°32'14"W 861.42'

S71°27'22"E 244.57'

N61°27'46"W

Rebar(Fd.) 0.85ft. on line

6' CHAIN LINK FENCE

EXISTING WOOD SALT SHED

EXISTING CONC. PAD CALCIUM CHLORIDE TANK

EXISTING BITUMINOUS PAVEMENT

EXISTING MASONRY SHED

EXISTING OVERHEAD WIRES

EXISTING CORRUGATED METAL BLDG.

EX. METER TO BE REMOVED BY ACE

ACE TO REMOVE EXISTING OVERHEAD SERVICE DROP WIRES

EXISTING CONC. PAD

SWALE INV. 66.44

EX. OVER HEAD PRIMARY ELECTRICAL SERVICE TO POLE

GUY POLE

EXISTING PUMP HOUSE

EXISTING WOODEN GARAGE W/BLOCK FOUNDATION

EXISTING GAS PUMPS

EXISTING BITUMINOUS PAVEMENT

EX. SEPTIC TANK

EX. SEEPAGE TANK

SAN. M.H. EXISTING CESSPOOL

EXISTING BITUMINOUS PAVEMENT

EXISTING CORRUGATED METAL OFFICE BUILDING AND EXISTING CESSPOOL TO REMAIN

BLDG #1560

BLDG #1561

BLDG #1562

BLDG #1565

GUIDERAIL

WOODEN BULKHEAD

90° Bend

SAUCER ROADWAY

Concrete Pad

Diesel Tank

Gasoline Tank

PANEL 'A'

Conc. Pad

12" DIRT

Meter Cabinet

0.94ft.

NEW GUY WIRE REMOVE EX. LIGHT AND WOOD POLE

Ex. guiderail

PROPOSED WATER SERVICE LINE TO BE 10' MIN. FROM ALL PROPOSED ISDS COMPONENTS

2" curb stop 5' off of Bldg.

NEW 24'-8"x 60'-0" BUILDING

PROPOSED 518 S.F. (18'x32') SRB DISPOSAL FIELD

PROPOSED 1000 GALLON SEPTIC TANK WITH EFFLUENT FILTER

WOODS

DIRT

SAND STOCKPILE

GRAVEL

GRASS

18" PINES

12" TREES

18" OAK

18" TWIN OAK

RIM 69.93

RIM 69.98

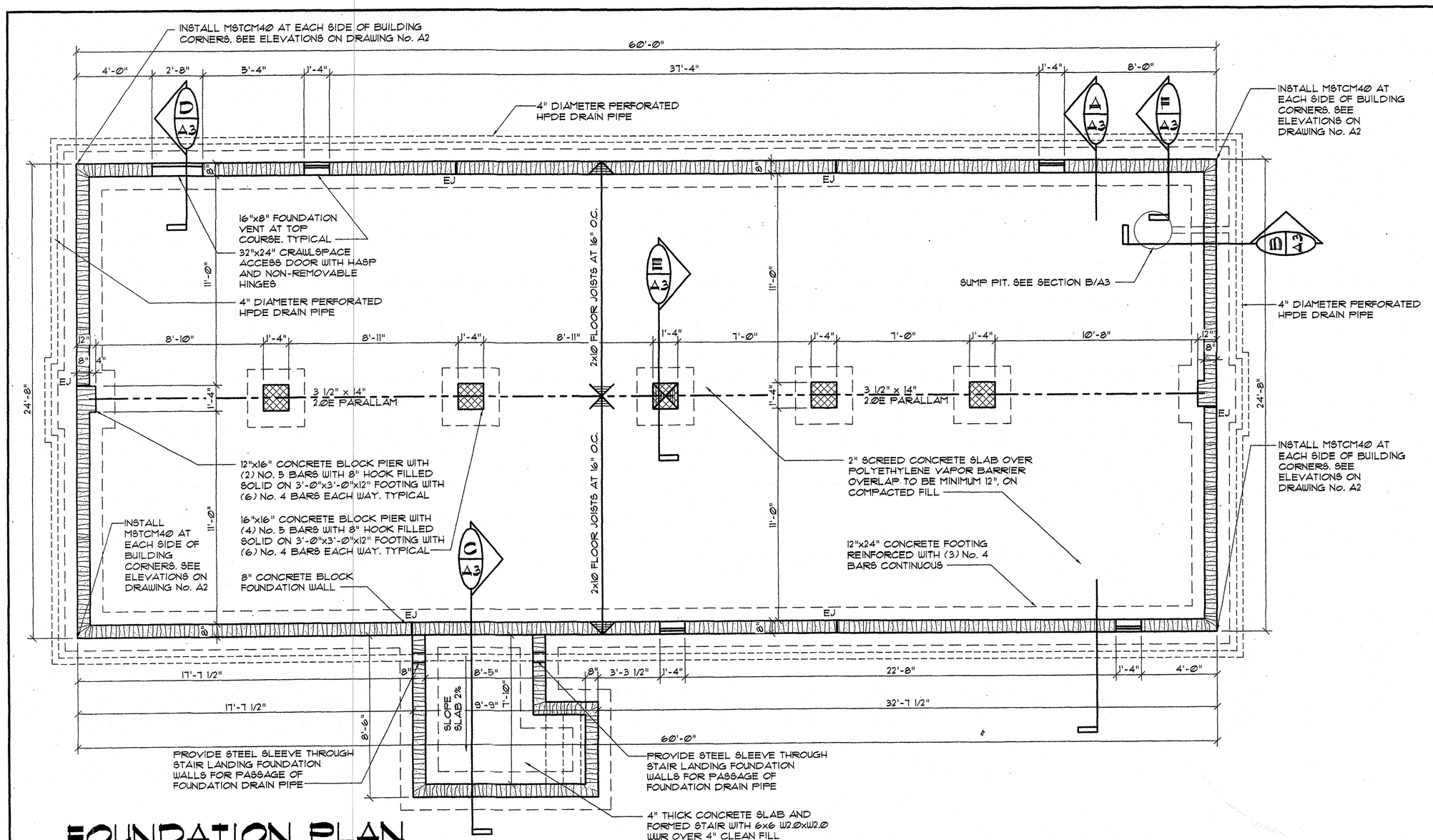
INV. 66.82

INV. 66.98

INV. 66.98

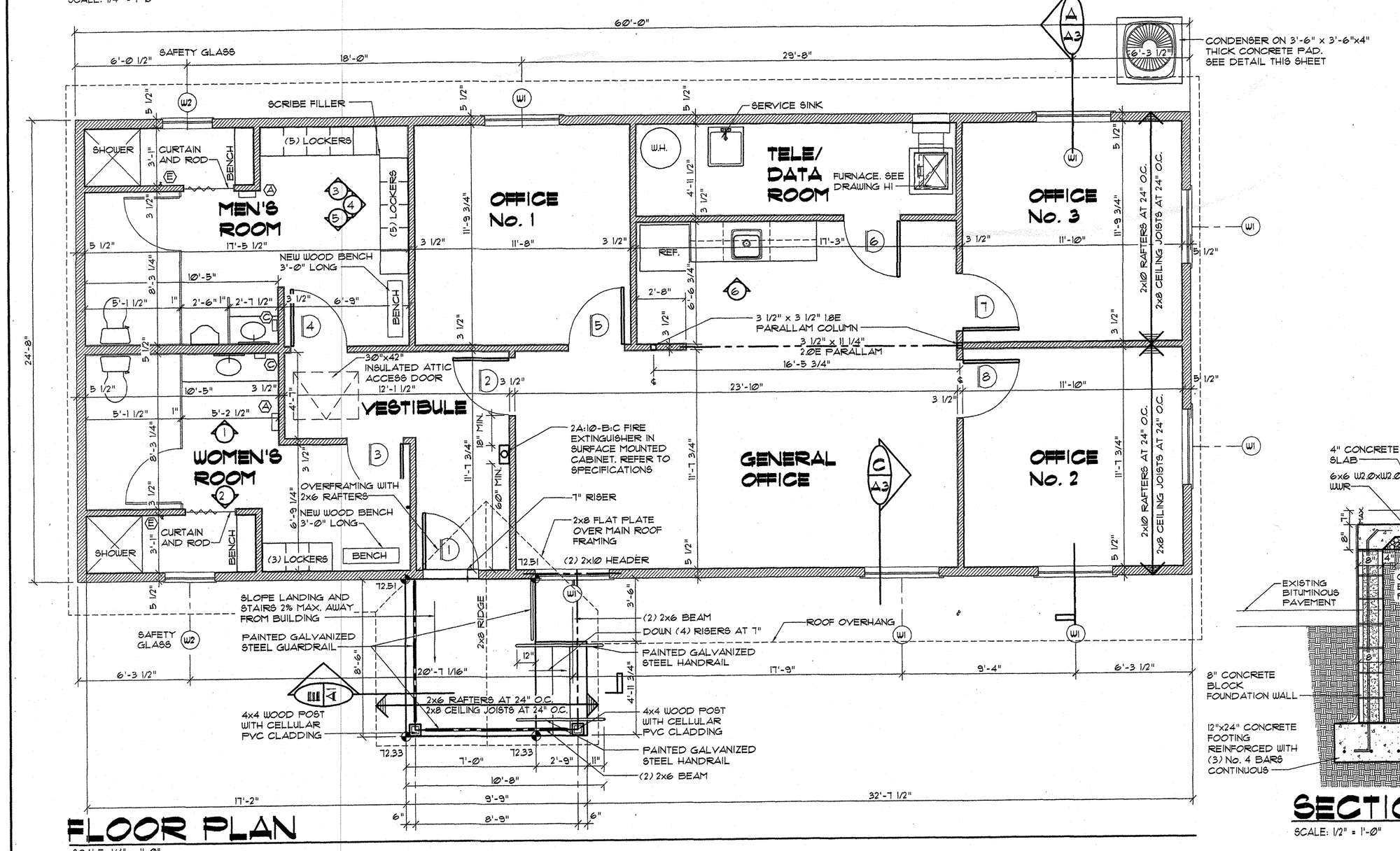
INV. 66.98

EXHIBIT 'E'



FOUNDATION PLAN

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



FLOOR PLAN

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

DOOR SCHEDULE

MARK	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	TYPE	MAT.	FRAME MAT.			HDWR. SET	REMARKS
1	3'-0"	6'-8"	1 3/4"	1	STEEL	STEEL	J1	H1	A	R-VALUE = 5.24. SAFETY GLASS SEE NOTE No. 3
2	3'-0"	6'-8"	1 3/4"	2	STEEL	STEEL	J2	H2	C	
3	3'-0"	6'-8"	1 3/4"	3	STEEL	STEEL	J2	H2	C	
4	3'-0"	6'-8"	1 3/4"	3	STEEL	STEEL	J2	H2	C	
5	3'-0"	6'-8"	1 3/4"	3	STEEL	STEEL	J2	H2	B	
6	3'-0"	6'-8"	1 3/4"	3	STEEL	STEEL	J2	H2	D	
7	3'-0"	6'-8"	1 3/4"	3	STEEL	STEEL	J2	H2	B	
8	3'-0"	6'-8"	1 3/4"	3	STEEL	STEEL	J2	H2	B	

REFER TO SPECIFICATION SECTION 08 71 00 FOR INFORMATION FOR DOOR HARDWARE.

WINDOW SCHEDULE

REF. CODE	UNIT NO.	UNIT WIDTH	UNIT HEIGHT	ROUGH OPENING WIDTH	ROUGH OPENING HEIGHT
W1	TW2036	4'-0"	4'-11 7/8"	4'-1"	5'-1 7/8"
W2	AR281	2'-7 1/2"	1'-5"	2'-8 1/2"	1'-6"

NOTES:
1.) ALL DOORS SHALL HAVE LEVER HANDLES

2.) ALL DOOR LOCKS SHALL ALLOW FOR DOOR TO BE READILY OPENABLE FROM THE EGRESS SIDE

3.) SAFETY GLAZING SHALL PASS THE TEST REQUIREMENTS OF CPSC 16 CFR 1202, CATEGORY II AND SHALL BE IDENTIFIED BY PERMANENT MARKINGS IN ACCORDANCE WITH THE CODE. SEE FLOOR PLAN FOR LOCATIONS.

ROOM FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	WALLS	CEILING
GENERAL OFFICE	VINYL COMPOSITION TILE	RUBBER BASE	GYPSUM BOARD	PAINTED GYPSUM BOARD
OFFICE No. 1	VINYL COMPOSITION TILE	RUBBER BASE	GYPSUM BOARD	PAINTED GYPSUM BOARD
OFFICE No. 2	VINYL COMPOSITION TILE	RUBBER BASE	GYPSUM BOARD	PAINTED GYPSUM BOARD
OFFICE No. 3	VINYL COMPOSITION TILE	RUBBER BASE	GYPSUM BOARD	PAINTED GYPSUM BOARD
TELE/ DATA ROOM	VINYL COMPOSITION TILE	RUBBER BASE	GYPSUM BOARD	PAINTED GYPSUM BOARD
MEN'S ROOM	SHEET FLOORING	INTEGRAL COVE	FRP OVER GYPSUM BOARD	PAINTED GYPSUM BOARD
WOMEN'S ROOM	SHEET FLOORING	INTEGRAL COVE	FRP OVER GYPSUM BOARD	PAINTED GYPSUM BOARD

NOTE: FRP PANELS SHALL HAVE FLAME SPREAD OF 200 OR LOWER AND SMOKE DEVELOPED OF 450 OR LOWER PER ASTM E-84 LATEST VERSION.
SHOWER ENCLOSURE AND BASE ARE SPECIFIED ON PLUMBING DRAWINGS.

HARDWARE LIST

SET A
HINGES: 1 1/2 PAIR 4 1/2" x 4 1/2"
CYLINDRICAL LOCKSET; ANSI FUNCTION F109 - ENTRANCE
CLOSER; TOP JAMB 110° HOLD-OPEN
SADDLE; 6" ALUMINUM
WEATHER STRIP;

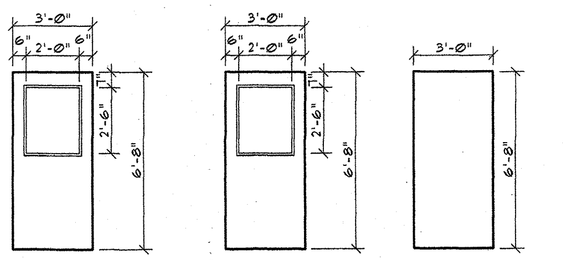
SET B
HINGES: 1 1/2 PAIR 4 1/2" x 4 1/2"
CYLINDRICAL LOCKSET; ANSI FUNCTION F104 - OFFICE
WALL BUMPER; TRIMCO 1210CV

SET C
HINGES: 1 1/2 PAIR 4 1/2" x 4 1/2"
CYLINDRICAL LATCHSET; ANSI FUNCTION F75 - PASSAGE
CLOSER; TOP JAMB BARRIER-FREE, DELAYED ACTION WITH PAINTED METAL COVER ALL BUMPER; TRIMCO 1210CV

SET D
HINGES: 1 1/2 PAIR 4 1/2" x 4 1/2"
CYLINDRICAL LOCKSET; ANSI FUNCTION F109 - STORAGE ROOM
CLOSER; TOP JAMB 110° HOLD-OPEN

DORMER OVERFRAMING

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



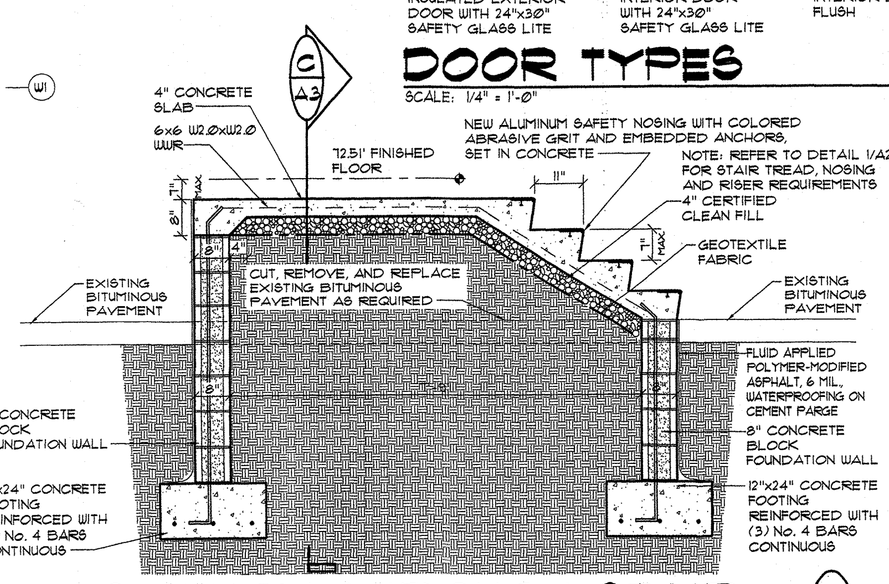
DOOR TYPE 1 PAINTED METAL INSULATED EXTERIOR DOOR WITH 24"x30" SAFETY GLASS LITE

DOOR TYPE 2 PAINTED METAL INTERIOR DOOR WITH 24"x30" SAFETY GLASS LITE

DOOR TYPE 3 PAINTED METAL INTERIOR DOOR FLUSH

DOOR TYPES

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



SECTION THROUGH STAIR

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

NOTE: REFER TO DETAIL 1/A2 FOR ADDITIONAL REQUIREMENTS

CRAWLSPACE VENTILATION CALCULATION

60' x 24' = 1440 SF.

VENTILATION REQUIRED: 1/1500 x 1440 = .96 SF.

OR 138.24 SQ. INCHES

USE 8"x16" WITH 46 SQ. INCHES FREE AIR

4 REQUIRED. (46 x 4 = 184 SQ. IN.)

SYMBOL LIST

- REFERENCES DOOR OPENING. REFER TO DOOR SCHEDULE
- TOILET ROOM ACCESSORIES SEE DRAWING No. A4
- REFERENCES INTERIOR ELEVATION
- ELEVATION MARK (DATUM)
- REFERENCES WINDOW OPENING. REFER TO WINDOW SCHEDULE

SECTION LETTER — REFERENCES SECTION. — DRAWING ON WHICH SECTION APPEARS

E.J. EXPANSION JOINT IN MASONRY FOUNDATION WALL. SEE DETAIL 2/A3

AS BUILTS
W. J. GROSS, INC.
10/30/20



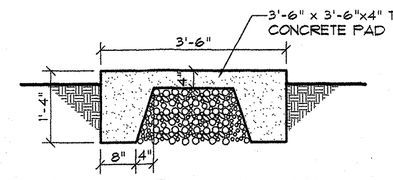
SIGN No. 1
TYPICAL 12"x12"

SIGNAGE

SCALE: 3" = 1'-0"

GENERAL NOTES:

1.) ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED.
2.) ALL INTERIOR WALLS TO HAVE SOUND INSULATION
3.) BUILDING EXEMPT FROM ACCESSIBILITY STANDARDS PER PROPOSED SCOPE.
4.) FRAMING LUMBER SHALL BE No. 2 OR BETTER DOUGLAS FIR SEASONED TO 19% MOISTURE CONTENT
5.) ALL HEADERS SHALL BE (2) 2x12
6.) REFER TO SPECIFICATION SECTION 05 52 00 FOR EXTERIOR HAND AND GUARD RAILS
7.) ALL 8" CONCRETE BLOCK FOUNDATION WALLS TO BE GROUTED SOLID BELOW GRADE



CONCRETE PAD DETAIL

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

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

FOUNDATION PLAN AND FLOOR PLAN

SUBMISSION	BY	DATE
FINAL	TJL	02/26/18
FINAL 2	TJL	06/13/18
FINAL 3	TJL	02/28/19
PERMIT/BID	LD	07/17/19

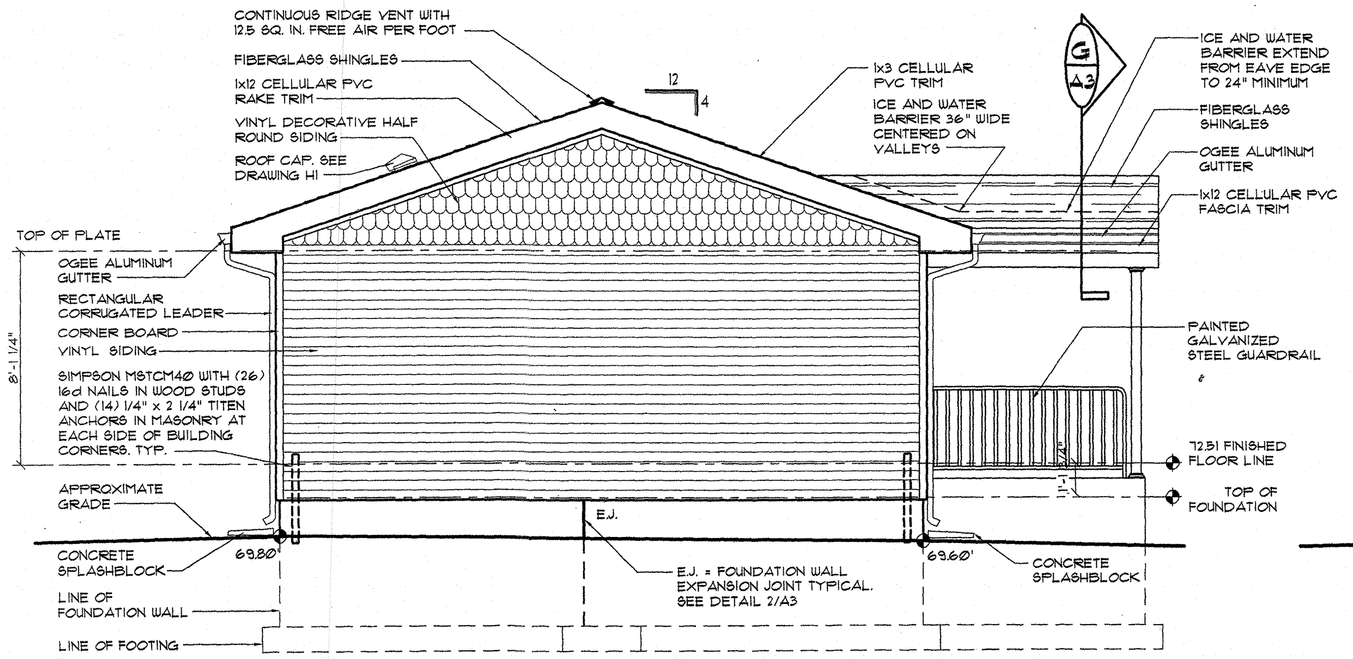
RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE - PLANNING - DESIGN
405 RICHMOND AVENUE
POINT PLEASANT BEACH, NEW JERSEY 08742
(732) 701-9444 · FAX 701-9919 E-MAIL ARCHITECTS@RASALLC.COM

DAVID A. CLARK, ARCHITECT 17149

A1

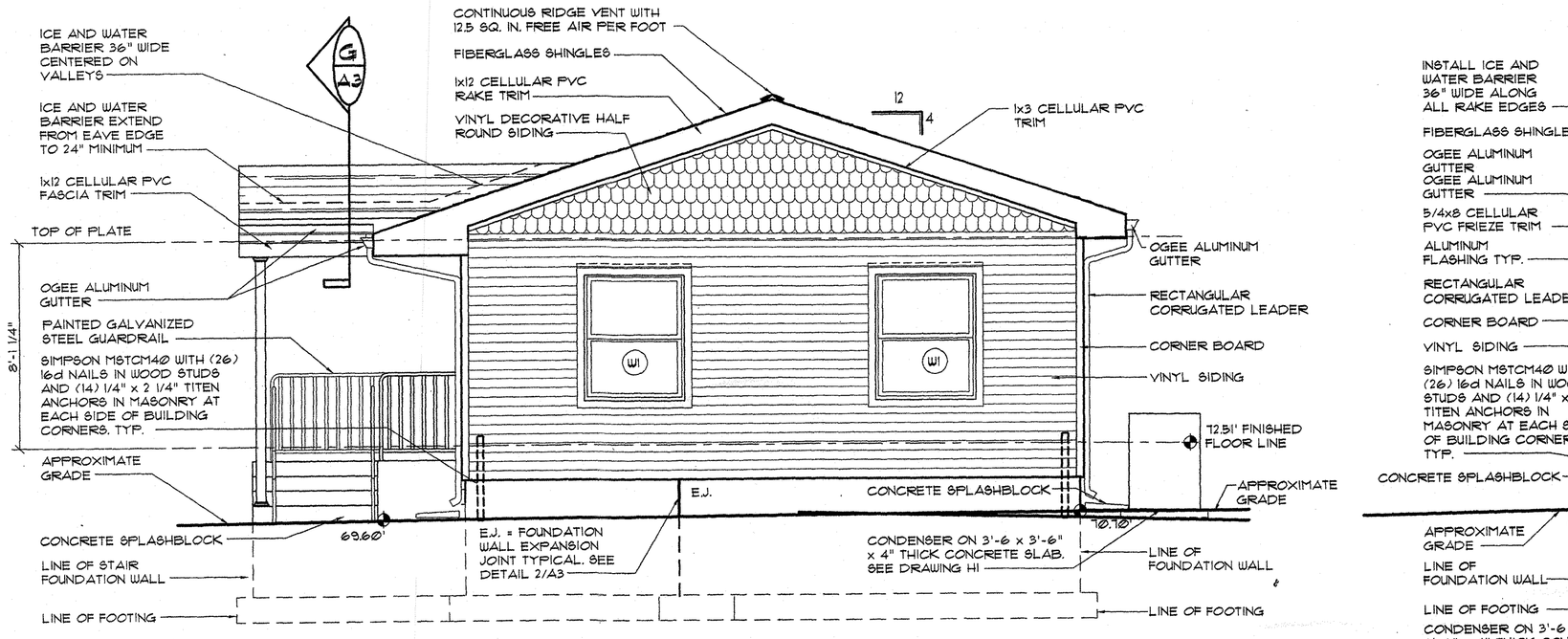
EXHIBIT 'E'

AS BUILTS
W. J. GROSS, INC.
10/30/20



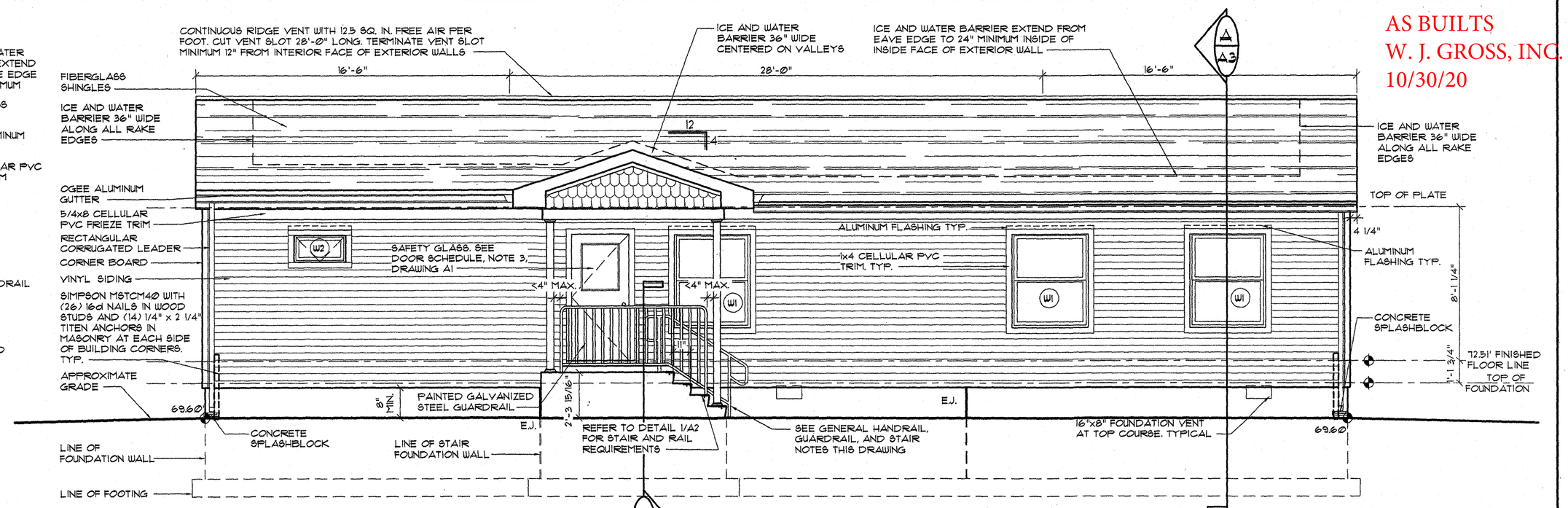
NORTH ELEVATION

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



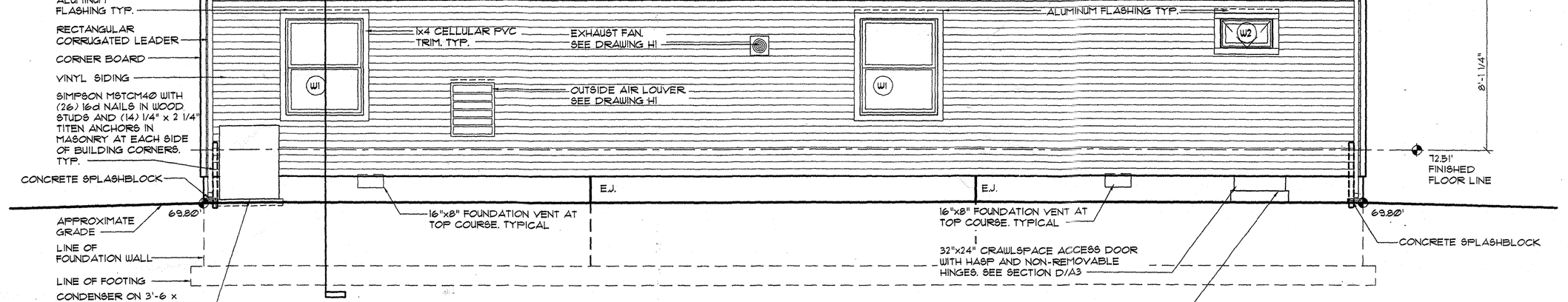
SOUTH ELEVATION

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



WEST ELEVATION

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



EAST ELEVATION

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

STAIR NOTES:

1.) THE LEADING EDGE OF THE TREAD SHALL HAVE A RADIUS NO GREATER THAN 9/16". NOSING PROVIDED ON STAIRWAYS WITH SOLID RISERS SHALL BE 3/4" MIN, 1 1/4" MAX.

2.) NOSING PROJECTION SHALL BE UNIFORM THROUGHOUT THE STAIR, INCLUDING THE NOSING AT THE LEVEL OF FLOORS AND LANDINGS.

3.) BEVELING OF NOSING SHALL NOT EXCEED 9/16". RISERS SHALL BE VERTICAL OR SLOPED FROM THE UNDERSIDE OF THE LEADING EDGE OF THE TREAD ABOVE AT AN ANGLE NOT MORE THAN 30 DEGREES FROM THE VERTICAL.

4.) THE RISER WITH THE GREATEST HEIGHT SHALL VARY NO MORE THAN 3/8" WITH THE RISER WITH THE SMALLEST HEIGHT.

HANDRAIL NOTES:

1.) HANDRAIL HEIGHT SHALL NOT BE LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES WHEN MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING, OR FINISH SURFACE OF RAMP SLOPE.

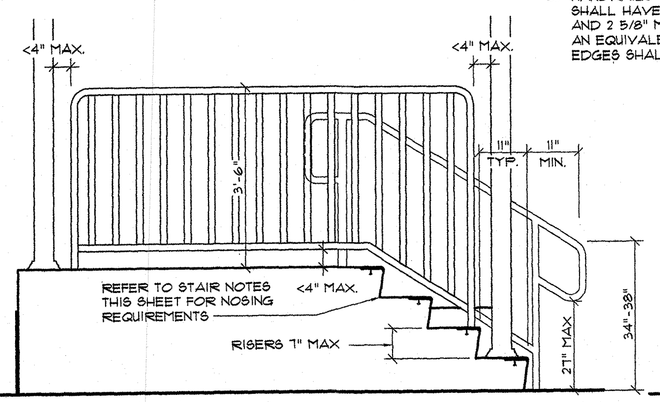
2.) TOP OF GRIPPING SURFACE SHALL BE CONTINUOUS, WITHOUT INTERRUPTION BY POSTS, OTHER CONSTRUCTION ELEMENTS OR OBSTRUCTIONS, THE FULL LENGTH OF THE FLIGHT.

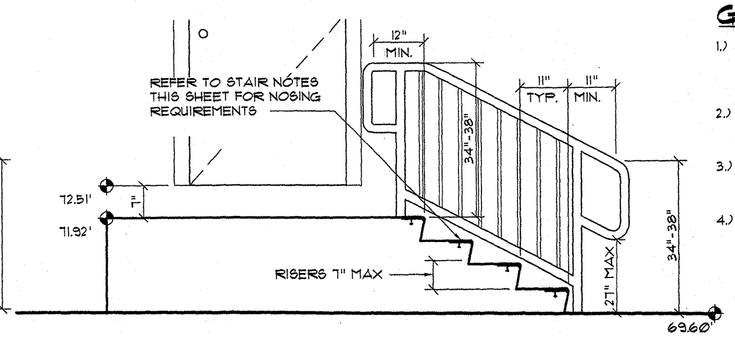
3.) HANDRAILS SHALL PROVIDE GRASPABILITY. HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1 1/4" MINIMUM AND 2 5/8" MAXIMUM. HANDRAIL SHAPES THAT PROVIDE AN EQUIVALENT GRASPING SURFACE ARE PERMISSIBLE. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".

4.) CLEAR SPACE BETWEEN A HANDRAIL AND A WALL OR OTHER SURFACE SHALL BE A MINIMUM OF 1 1/2". A HANDRAIL AND A WALL OR OTHER SURFACE ADJACENT TO THE HANDRAIL SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.

5.) PROJECTIONS INTO THE REQUIRED WIDTH OF STAIRWAYS AND RAMPS AT EACH HANDRAIL SHALL NOT EXCEED 4 1/2" INCHES AT OR BELOW THE HANDRAIL HEIGHT.

6.) HANDRAILS SHALL BE DESIGNED TO RESIST A LOAD OF 50 PLF APPLIED IN ANY DIRECTION ALONG THE TOP. THEY SHALL ALSO BE CAPABLE OF RESISTING A 200 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP. THE CONCENTRATED LOAD DOES NOT NEED TO BE CONSIDERED AS ACTING SIMULTANEOUSLY WITH THE 50 PLF LOAD.





TYPICAL STAIR DETAILS

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

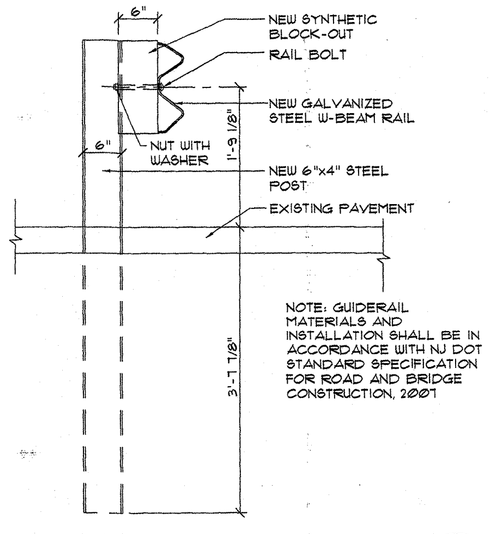
GUARDRAIL NOTES:

1.) GUARDRAILS SHALL BE LOCATED ALONG OPEN-SIDED WALKING SURFACES THAT ARE LOCATED MORE THAN 30", MEASURED VERTICALLY, TO THE FLOOR OR GRADE.

2.) REQUIRED GUARDRAIL HEIGHT SHALL BE NOT LESS THAN 42" HIGH, MEASURED VERTICALLY ABOVE THE WALKING SURFACE.

3.) REQUIRED GUARDRAILS SHALL NOT HAVE AN OPENING WHICH ALLOWS THE PASSAGE OF A 4" DIAMETER SPHERE.

4.) SPACING BETWEEN BALUSTERS ON GUARDRAILS SHALL NOT EXCEED 3 7/8"



1/A2 NEW GUIDE RAIL 2/A2

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

ATTIC VENTILATION CALCULATION

MAIN ROOF

REQUIRED VENTILATION:
1440 sq.ft. /300 = 4.8 sq.ft.
4.8 x 144 = 692 sq.in.

PROVIDED VENTILATION:
RIDGE VENT: TOTAL MINIMUM FREE AIR = 350
SOFFIT VENT TOTAL MINIMUM FREE AIR = 1080
350 + 1080 = 1430 sq.in.
1430 /144 = 9.93 sq.ft.

NEW OFFICE BUILDING
DOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

ELEVATIONS

SUBMISSION	BY	DATE
FINAL	TJL	07/26/18
FINAL 2	TJL	06/13/18
FINAL 3	LD	07/28/19
PERMIT/BID	LD	07/17/19

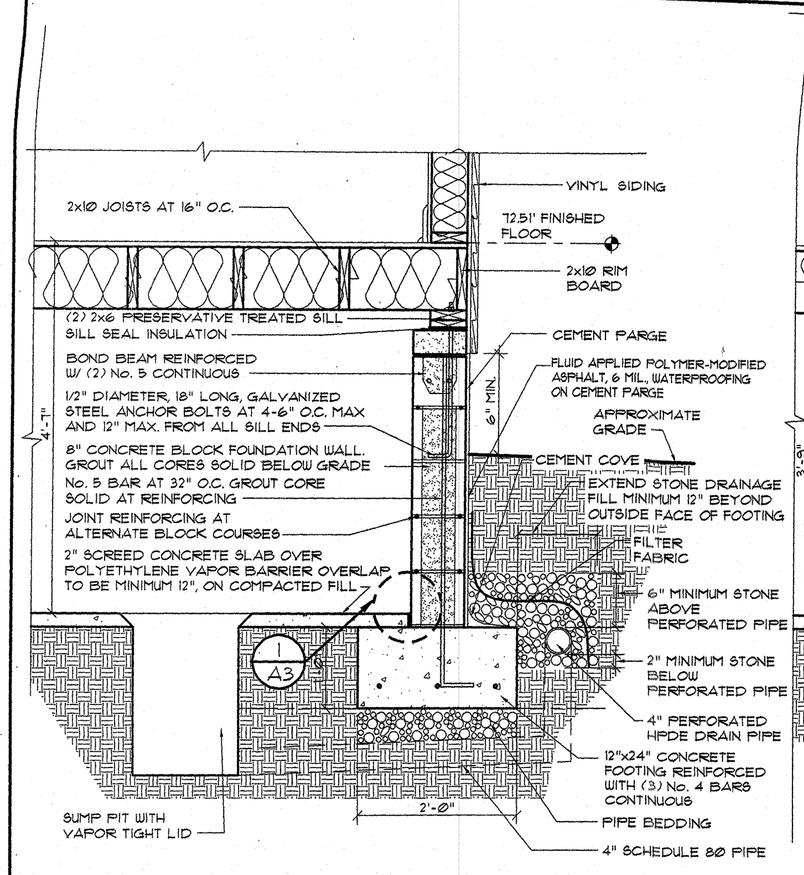
RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE - PLANNING - DESIGN
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POINT PLEASANT BEACH, NEW JERSEY 08742
(732) 701-9444 FAX 701-9919 E-MAIL ARCHITECTS@RASALLC.COM

DAVID A. CLARK ARCHITECT 17149

A2

EXHIBIT 'E'

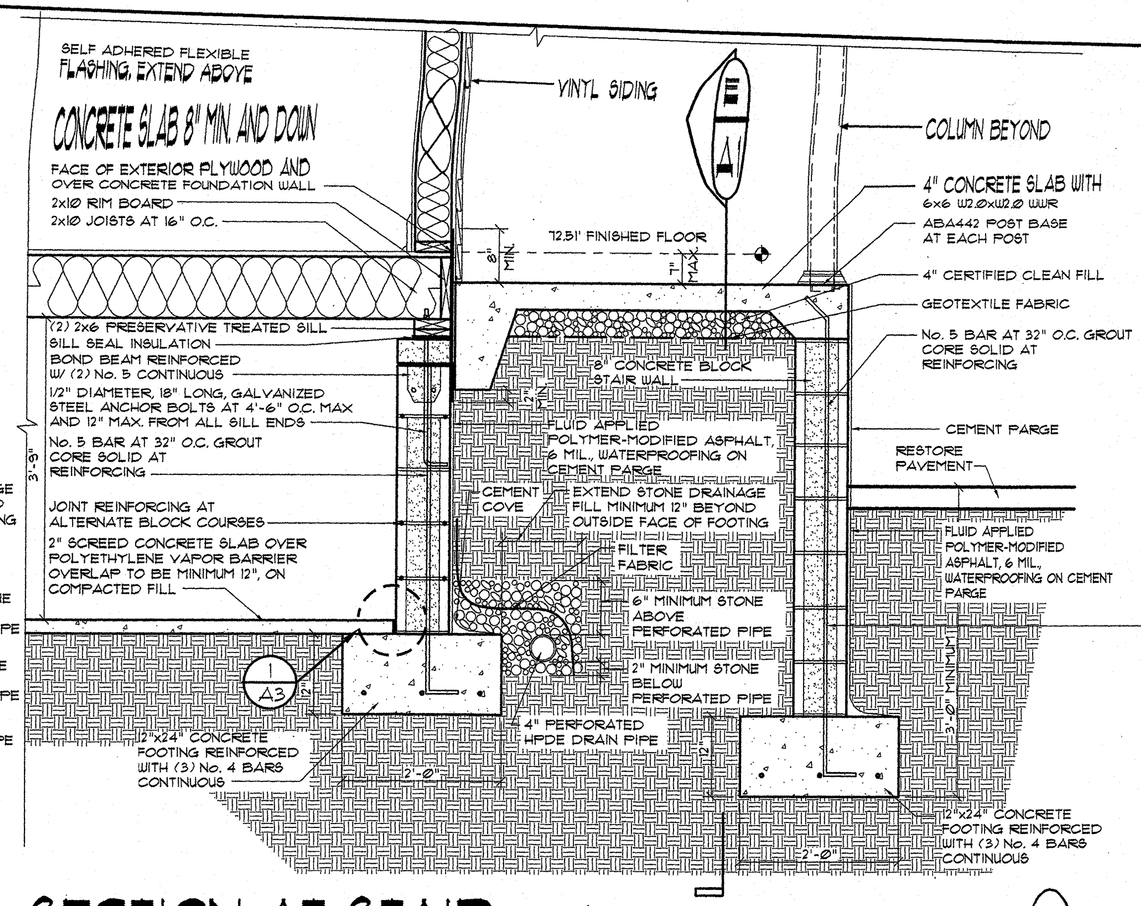
AS BUILTS
W. J. GROSS, INC.
10/30/20



SECTION AT SUMP PIT

B / A3

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

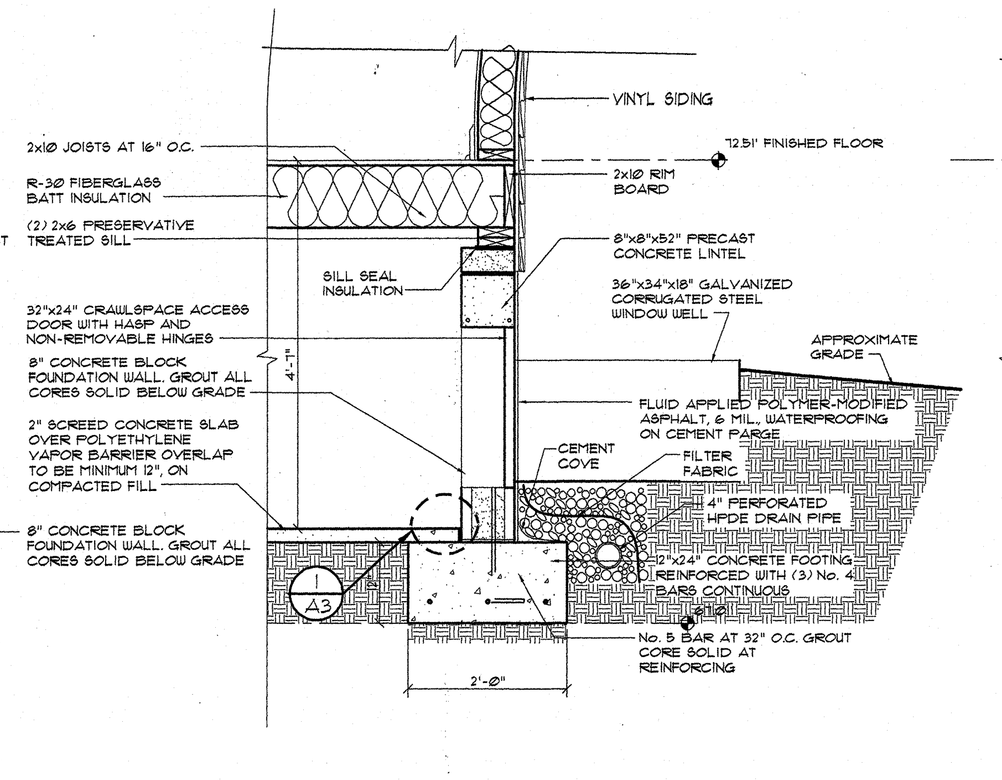


SECTION AT STAIR

C / A3

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

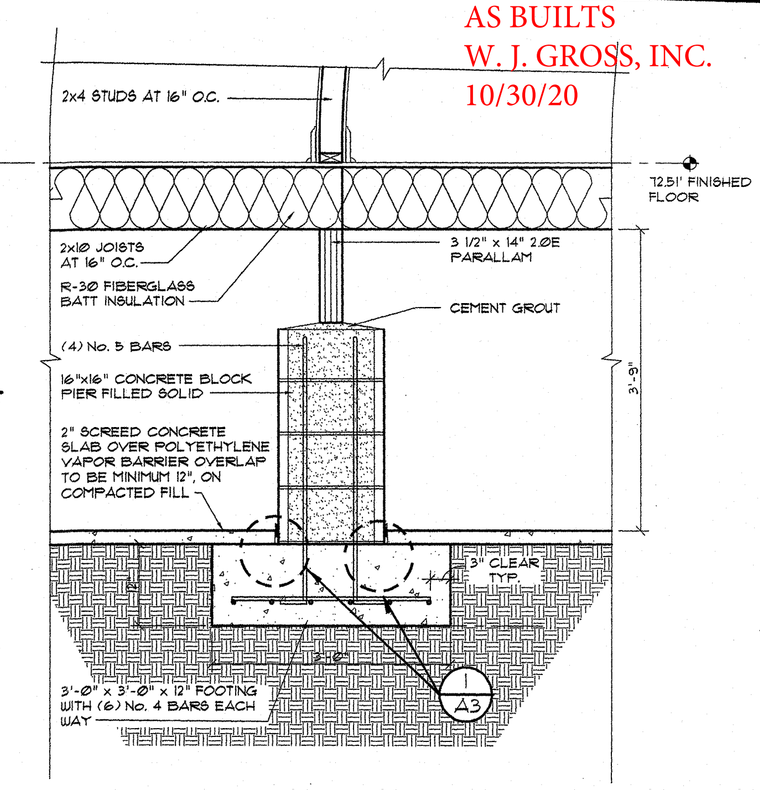
NOTE: STONE BASE AND FILTER FABRIC ONLY REQUIRED IN RESTRICTED AREA



SECTION AT ACCESS DOOR

D / A3

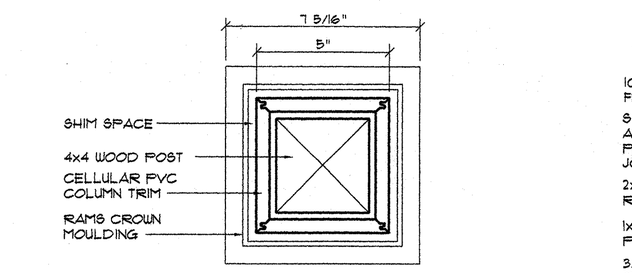
SCALE: 3/4" = 1'-0"



SECTION AT PIER

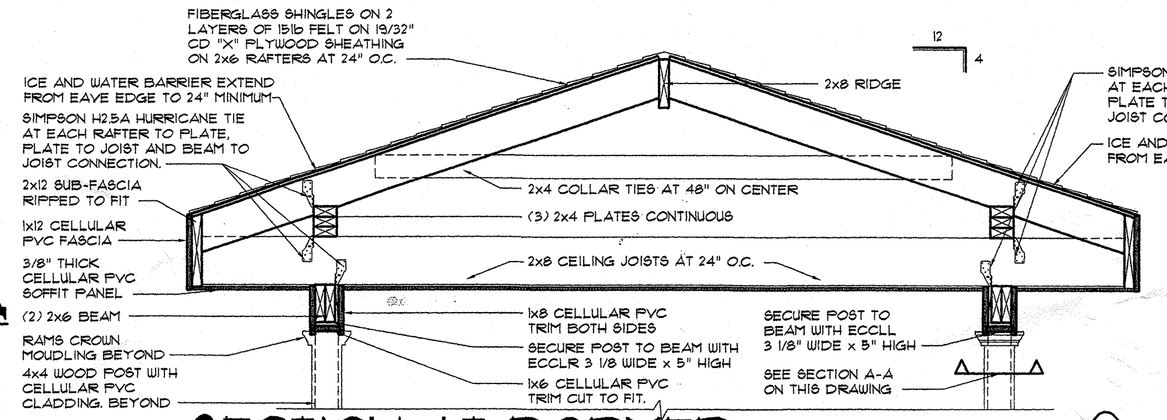
E / A3

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



COLUMN SECTION A-A

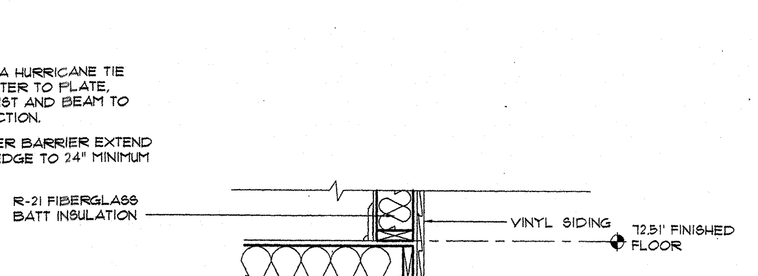
SCALE: 3/4" = 1'-0"



SECTION AT DORMER

G / A3

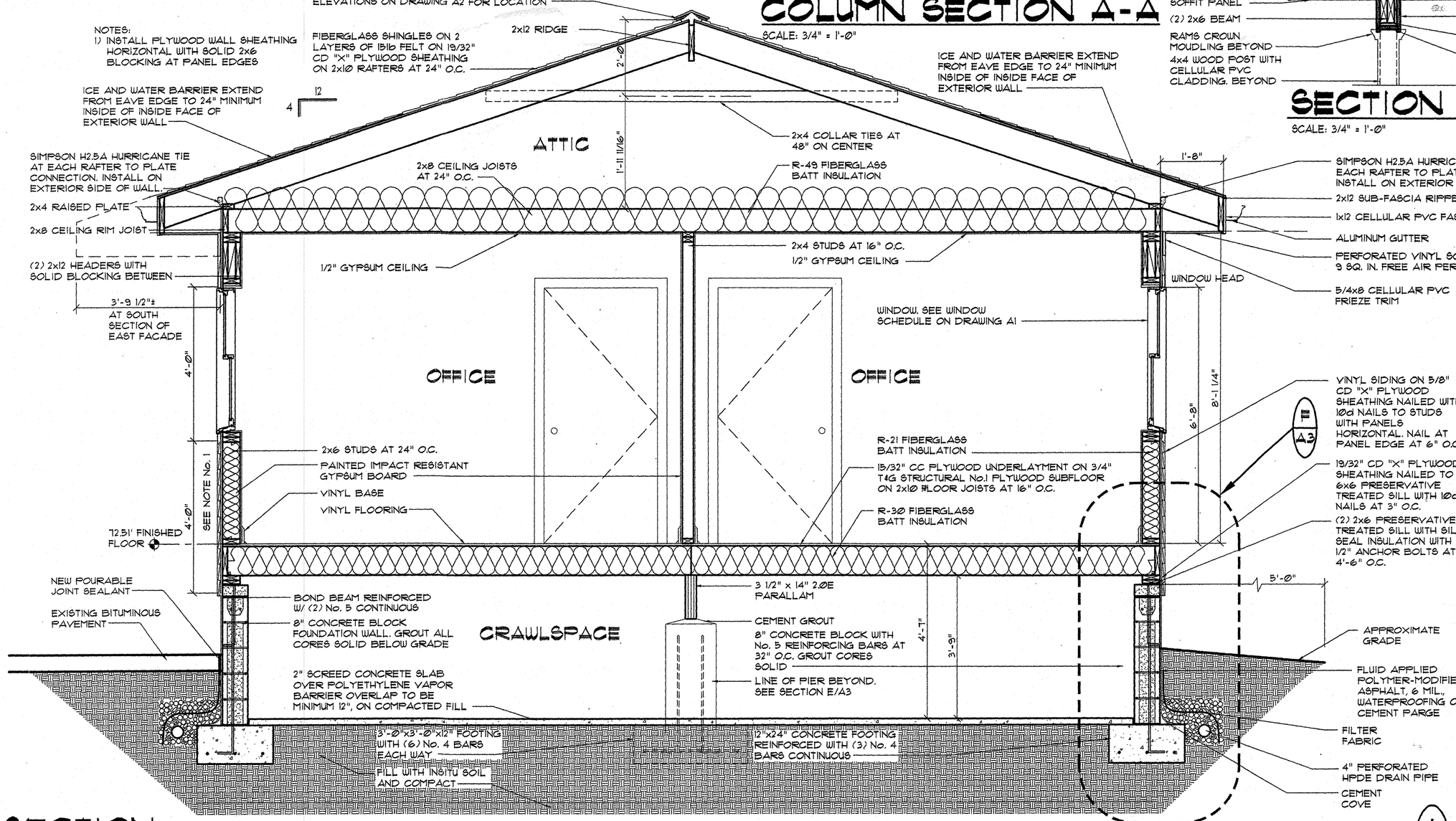
SCALE: 3/4" = 1'-0"



TYPICAL SECTION

F / A3

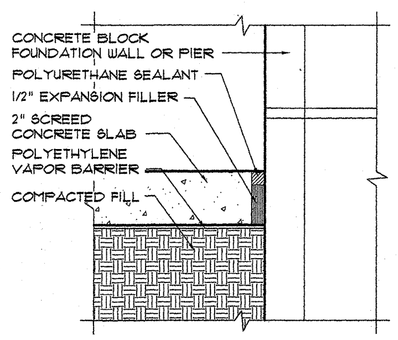
SCALE: 3/4" = 1'-0"



SECTION

A / A3

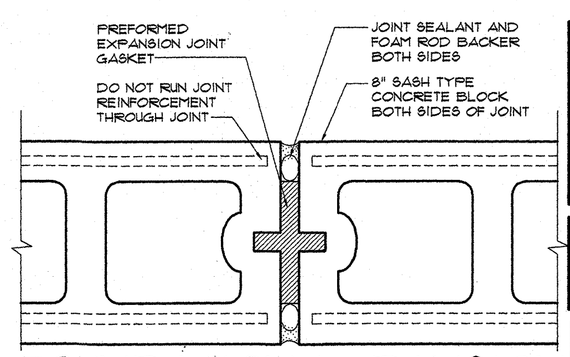
SCALE: 1/2" = 1'-0"



SEALANT DETAIL

1 / A3

SCALE: 3" = 1'-0"



FOUNDATION EXPANSION JOINT DETAIL

2 / A3

SCALE: 3" = 1'-0"

NOTE: PROVIDE IN MASONRY FOUNDATION WALL FROM TOP OF FOOTING TO UNDERSIDE OF BOND BEAM AT 20'-0" MAX. FROM EACH BUILDING CORNER ON EAST AND WEST WALLS AND ADJACENT TO PILASTERS AT NORTH AND SOUTH WALLS

NEW OFFICE BUILDING
DOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

SECTION AND DETAILS

SUBMISSION	BY	DATE
FINAL	TJL	02/26/18
FINAL 2	TJL	06/13/18
FINAL 3	TJL	02/28/19
PERMIT/BID	LD	01/17/19

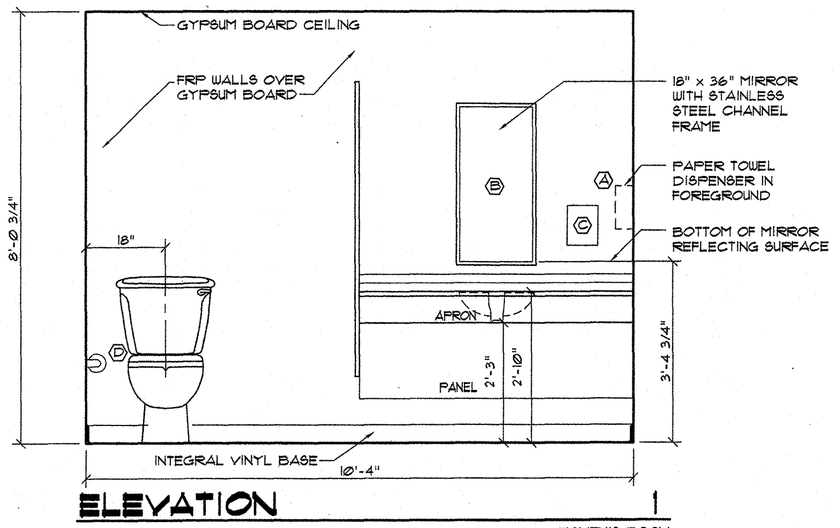
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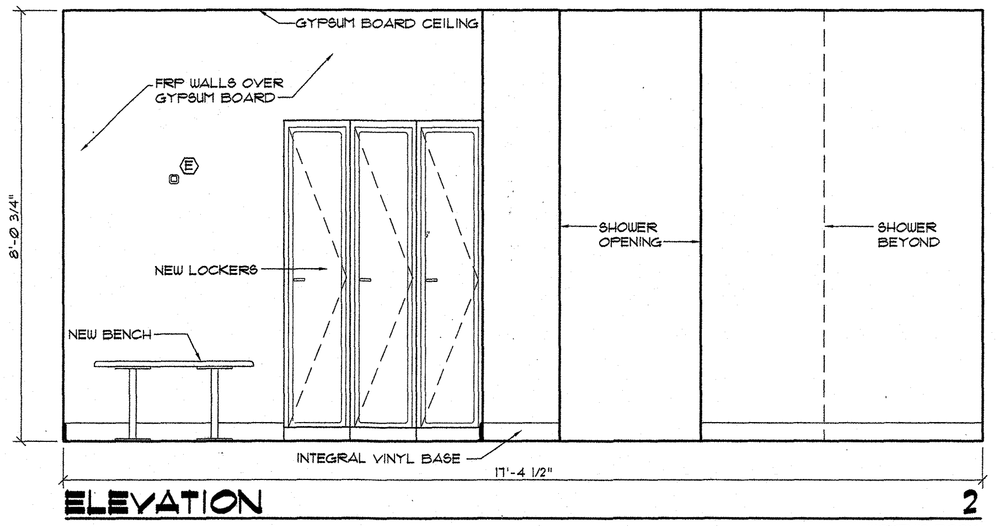
A3

AS BUILTS
W. J. GROSS, INC.
10/30/20

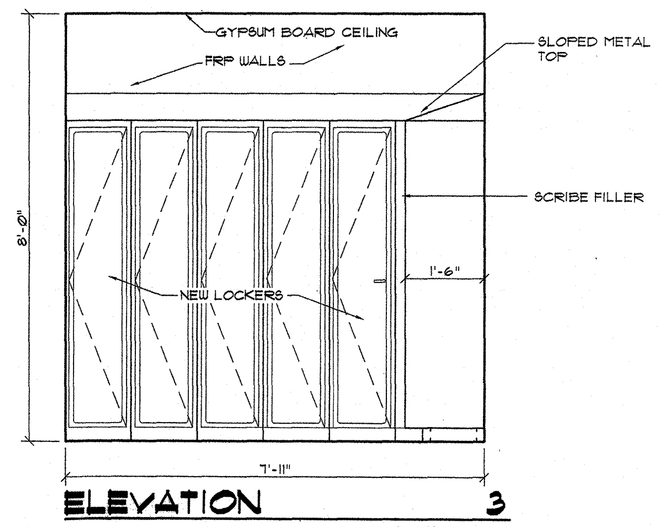
EXHIBIT 'E'



ELEVATION 1
WOMEN'S ROOM



ELEVATION 2
WOMEN'S ROOM



ELEVATION 3
MEN'S ROOM

ELEVATION 4
MEN'S ROOM

ELEVATION 5
MENS ROOM

ELEVATION 6
KITCHENETTE

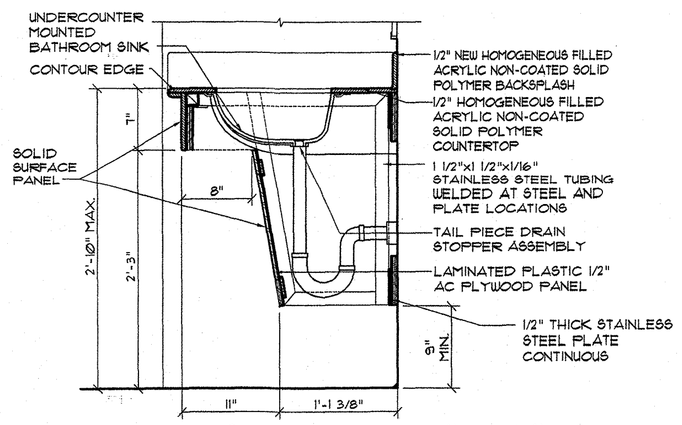
INTERIOR ELEVATIONS

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

TOILET ROOM ACCESSORY SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER
A	PAPER TOWEL DISPENSER	BOBRICK	B-262
B	MIRROR, 18"x 36"	BOBRICK	B-165 2436
C	SOAP DISPENSER, SURFACE MTD.	BOBRICK	B-4112
D	TOILET PAPER DISPENSER, SURFACE MTD.	BOBRICK	B-2740
E	HOOK	BOBRICK	B-6717

NOTE: BUTTON FOR SOAP DISPENSER AND OUTLET FOR PAPER TOWEL DISPENSER SHALL BE MOUNTED AT 48" MAX. ABOVE FINISH FLOOR



VANITY SECTION "A-A"
SCALE: 1"=1'-0"

NOTE: ANY EXPOSED PIPES SHALL BE INSULATED

NEW OFFICE BUILDING
DOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

INTERIOR ELEVATIONS

SUBMISSION	BY	DATE
FINAL	TJL	02/26/18
FINAL 2	TJL	06/13/18
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DAVID A. CLARK, ARCHITECT 17149

A4

GENERAL PLUMBING NOTES:

1. CONTRACTOR SHALL INSTALL ALL PLUMBING WORK IN ACCORDANCE WITH THE NEW JERSEY EDITION INTERNATIONAL CONSTRUCTION CODE, 2015: AND THE 2015 NATIONAL STANDARD PLUMBING CODE.
2. CONTRACTOR SHALL INSTALL NEW 2" COLD WATER SUPPLY LINE INTO THE BUILDING WITH A NEW 2" PE COLD WATER SUPPLY LINE IN THE CRAWL SPACE SHALL BE HEAT TRACED AND INSULATED AND RUN UP INTO OFFICE BUILDING.
3. CONTRACTOR SHALL PROVIDE A NEW 4" SANITARY BUILDING DRAIN FROM MODULAR OFFICE CONNECTION TO SANITARY SEWER PIPE TO NEW SEPTIC SYSTEM.
4. CONTRACTOR SHALL INSTALL SELF-LIMITING HEAT TAPE ON COLD WATER LINE AND SANITARY DRAIN FROM BUILDING ON ALL PIPE BELOW FLOOR IN CRAWL SPACE. CONTRACTOR SHALL COVER THE PIPE AND TAPE WITH 1" THICK FIBERGLASS INSULATION WITH ASJ COVER.
5. ALL UNDERGROUND COLD WATER SERVICE PIPES SHALL HAVE MINIMUM 42" COVER.
6. SANITARY DRAIN AND SEWER TO HAVE COVER AS SHOWN ON DRAWING, MIN. 6" COVER REQUIRED.
7. CONTRACTOR SHALL PROVIDE ALL EXCAVATION, BEDDING, COMPACTION AND RESTORAGE OF SURFACE TO MATCH EXISTING SURFACE CONDITIONS FOR ALL UNDERGROUND SANITARY PIPES INSTALLED.
8. ALL SANITARY LINES SHALL BE PITCHED DOWN AT A MIN. 1/4" PER FOOT, UP TO 3" PIPE SIZE, 1/8" PER FOOT MIN. FOR 4" PIPE.
9. CONTRACTOR SHALL COORDINATE ALL REQUIRED PLUMBING AND INSPECTIONS WITH THE PROJECT MANAGER AND DCA CODE INSPECTORS.
10. CONTRACTOR SHALL FURNISH AND INSTALL SEWER PIPING FROM EXTERIOR CLEANOUT TO NEW SEPTIC AND NEW SEPTIC SYSTEM AS PART OF THIS PROJECT UNDER ANOTHER SECTION OF WORK.
11. REFER TO PLUMBING SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYED PLUMBING NOTES:

(T1) 3" TAP OF EXISTING 12" WATER MAIN AND LINE TO METER PIT BY N.J. AMERICAN WATER CO.

(M1) NEW METER PIT BY N.J. AMERICAN WATER CO.

(P1) NEW 3" UNDERGROUND WATER SERVICE PIPE.

(P2) CAP END OF 3" PIPE.

(P3) SAW CUT AND REMOVE PAVEMENT, EXCAVATE, INSTALL PIPE, BACKFILL.

(P4) NEW 2" CURB VALVE 5'-0" OUTSIDE BUILDING WITH EXTENSION UP TO GRADE.

(P5) NEW 2" UNDERGROUND WATER SERVICE LINE INTO NEW OFFICE BUILDING UP THROUGH CRAWLSPACE INTO TELE/DATA ROOM.

(P6) PROVIDE HEAT TAPE AND 1" THICK FIBERGLASS PIPE INSULATION WITH ASJ JACKET ON ALL WATER AND SANITARY PIPES IN THE CRAWLSPACE.

(P7) TRANSITION FINAL PE TO 2" TYPE 'L' COPPER, AND REDUCE FROM 2" TO 1 1/4" COPPER COLD WATER SUPPLY INTO BUILDING.

(P8) NEW 1 1/4" DOUBLE CHECK BACKFLOW PREVENTER.

(P9) REFER TO SITE UTILITY PLAN FOR WATER SERVICE PIPE.

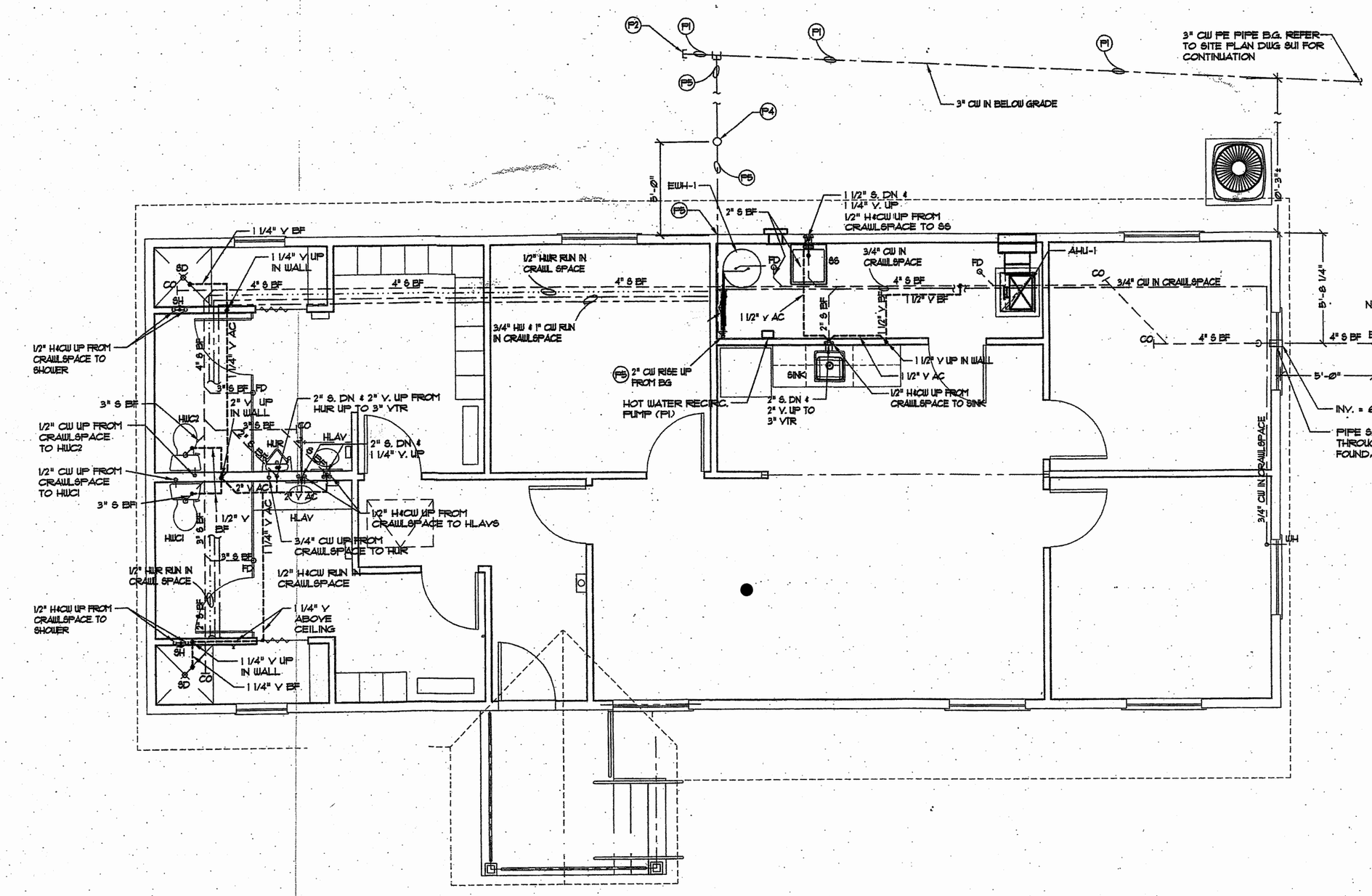
(P10) PROVIDE MARKER TAPE, MIN. 6" ABOVE PIPE

(P11) PROVIDE MARKER TAPE, MIN 18" ABOVE PIPE.

PLUMBING SYMBOL LIST

DN.	DOWN
EX.	EXISTING
HWCI	HANDICAP WATER CLOSET TYPE I
HLAV	HANDICAP LAVATORY
HUR	HANDICAP URINAL
SINK	KITCHEN SINK
SD	SHOWER DRAIN
FD	FLOOR DRAIN
WH	FREEZEPROOF WALL HYDRANT
VTR	VENT THROUGH ROOF
HB	BRASS HOSE BIBB WITH CAP
EWH	ELECTRIC WATER HEATER
CO	CLEAN OUT
ECO	EXTERIOR CLEAN OUT
DFU	DRAINAGE FIXTURE UNITS
WSFU	WATER SUPPLY FIXTURE UNITS
TOS	TOP OF SLAB
	CONNECT TO EXISTING
	UNION
IN.	INCH
FT.	FOOT
	BALL VALVE
A	WATER HAMMER ARRESTOR SIZE PDI TYPE A, B, C, ETC.

SAN	SANITARY ABOVE FLOOR
SAN	SANITARY BELOW FLOOR
SAN	SANITARY BELOW GRADE
CW	EXISTING COLD WATER
CW	COLD WATER
HW	HOT WATER
HW	HOT WATER RECIRC.
V	VENT
1/4" / FT	1/4" PER FT. PITCH DN IN DIRECTION OF ARROW (UNLESS NOTED OTHERWISE)
P1	KEYED PLUMBING NOTE INDICATOR
VB	VACUUM BREAKER
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
BF	BELOW FLOOR
BG	BELOW GRADE
DIA.	DIAMETER
	PIPE DROP
	PIPE RISE
E	PIPE CAP
	PUMP P1
	CHECK VALVE
BV	BALANCE VALVE



NEW OFFICE BUILDING FLOOR PLAN - PLUMBING

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

AS BUILTS
W. J. GROSS, INC.
10/30/20

AS-BUILT DRAWINGS

KISBY SHORE PLUMBING & HEATING CO.
CERTIFIED _____ DATE 10/30/20

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

PLUMBING PLAN AND NOTES

SUBMISSION	BY	DATE
FINAL	LC	02/26/18
FINAL 2	LC	06/13/18
FINAL 3	LC	02/28/19
PERMIT/BID	LC	07/11/19

RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE – PLANNING – DESIGN
405 RICHMOND AVE.
POINT PLEASANT BEACH, NEW JERSEY

EASTERN CONSULTANTS, INC.
CONSULTING ENGINEERS
2211 LEHIGH ST. P.O. BOX 4539
EASTON, PENNSYLVANIA 18043

David J. Parsons PE.
DAVID J. PARSONS, N.J.P.E. NO 24014

P1

EXHIBIT 'E'

PLUMBING FIXTURE SCHEDULE

FIXTURE	MANUFACTURER	TYPE	MODEL	TRIM NO.	SUPPLY PIPE NO.	TRAP NO.	SUPPORT NO.	PIPE SIZES TRAP	WASTE	VENT	C.W.	H.W.	REMARKS
H.C.1	AMER. STAND.	Flotise ELONGATED PRESSURE ASSIST - 1.1 GPF	3483.001 (BOWL) 4142.001 (TANK)	NOTE NO. 2		INTEGRAL	FLOOR		3"	2"	1/2"	-	TOP OF SEAT AT 1'1" TO 1'3" AFF, TANK W/RIGHT HAND TRIP LEVER, SEAT, CHURCH # 5500C
H.C.2	AMER. STAND.	Flotise ELONGATED PRESSURE ASSIST - 1.1 GPF	2467.100	NOTE NO. 2		INTEGRAL	FLOOR		3"	2"	1/2"		TOP OF SEAT AT 1'1" TO 1'3" AFF, SEAT, CHURCH # 5500C
H.J.R.	AMER. STAND.	WASHBROOK Flotise	6590.525	SUPPLIED WITH SELECTRONIC URINAL FLUSH VALVE @ 0.125 GPF			JR.SMITH 631		2"	1 1/2" MIN.	3/4"		MOUNT RIM 1'1" AFF. SEE NOTES: 13,14,15,16,17
H.LAV.	AMER. STAND.	OVALYN UNIVERSAL ACCESS UNDERCOUNTER SINK	0482.000	SYMMONS/ECCO SLC-6000-CB	SEE NOTES	1-1/4"	COUNTER	1 1/4"	1 1/2"	1 1/4"	1/2"	1/2"	UNDER COUNTER MOUNT FAUCET @ 0.5 GPM FLOW RATE, SELF CLOSING NOTES #12
SINK	ELKAY	LUSTERTONE CLASSIC STAINLESS STEEL SINGLE BOWL DROP-IN ADA SINK	LRAD191855	ELKAY MODEL LK4D19 STRAINER BASKET & OFFSET TAILPIECE		1-1/2"	COUNTER	1 1/2"	1 1/2"	1 1/4"	1/2"	1/2"	SINGLE BOWL SINK WITH AMERICAN STANDARD MODEL 6489.719 TOP-MOUNT KITCHEN FAUCET W/8" GOOSENECK SPOUT NOTES #11 & 12
SH	MOEN	CHATEAU STYLE HANDLE SHOWER	TL182 SERIES	MOEN 2570 PRESSURE BALANCED DIVERTER VALVE W/INTERNAL STOP-VALVES							1/2"	1/2"	1.75 GPM FLOW, HEAD 6'-8" AFF SEE NOTES: 19,20,21,22
SS	MUSTEE	UTILATUB	MODEL 14	GERBER FAUCET MODEL 48-231	BALL VALVES		LEGS	1 1/2"	1 1/2"	1 1/4"	1/2"	1/2"	ONE PIECE MOLDED CONSTRUCTION W/FINISHED STEEL LEGS, FAUCET AND DRAIN SEE NOTES: 7,8, & 26
SD	PROVIDED WITH SHOWER STALL	SHOWER DRAIN						2"	2"				SEE NOTE: 23
FD	MIFAB	FLOOR DRAIN	FD230-UF					3"	3"				REFER TO "FLOOR DRAIN DETAIL", ON DWG P2 SEE NOTES: 23 & 25
ECO	JR. SMITH	EXTERIOR CLEAN OUT	4231						4"				INSTALL TOP FLUSH WITH GRADE
WH	ZURN	WALL HYDRANT	Z-1321-C								3/4"		W/REMOVABLE KEY HANDLE & VACUUM BREAKER
HB	WATTS	HOSE BIBB	8C8-1								1/2" NPT		W/TAMPER PROOF VACUUM BREAKER SEE NOTE: 24
	JR. SMITH	WATER SEAL TRAP SEALS	FIG. 2692										2" SHOWER AND 3" FLOOR DRAIN TRAP SEALS SEE NOTE: 29

PLUMBING FIXTURE SCHEDULE NOTES:

1. HANDICAP WATER CLOSET: PRESSURE ASSISTED SIPHON JET FLUSH, FLUSHES AT 1.1 GALLONS.
2. HANDICAP WATER CLOSET: PROVIDE A PVC FLOOR FLANGE CONNECTED TO A 3" PVC PIPE DOWN THROUGH FLOOR AND SEAL FOR EACH WATER CLOSET.
3. H.W.C.1 & H.W.C.2: PROVIDE CHROME-PLATED BRASS FOR EXPOSED SUPPLY PIPES AND SHUT-OFF VALVES.
4. H.W.C.'S: FLUSH LEVER TO BE ON THE APPROACH SIDE TO H.W.C.
5. H.W.C.'S AND H.J.R. MANUFACTURERS: AMERICAN STANDARD AS SPECIFIED OR BY KOHLER, TOTO, SLOAN OR APPROVED EQUAL.
6. H.LAV'S: ADJUST SELF-CLOSING FAUCETS TO REMAIN OPEN FOR 10 SECONDS, MAX. @ 5 GPM
7. H.LAV'S & SINKS: PROVIDE CHROME-PLATED BRASS FOR EXPOSED SUPPLY PIPES AND SHUT-OFF VALVES.
8. H.LAV'S AND SINKS: PROVIDE PVC DRAINS AND TRAPS.
9. H.LAV'S: PROVIDE WITH GRID STRAINER & TAILPIECE.
10. H.LAV MANUFACTURERS: AMERICAN STANDARD AS SPECIFIED OR BY KOHLER, TOTO, SLOAN OR APPROVED EQUAL.
11. SINK MANUFACTURERS: ELKAY, JUST, MOEN, KOHLER, OR APPROVED EQUAL.
12. PROVIDE INSULATION AND COVERS ON THE WATER SUPPLY PIPING AND WASTE PIPING EXPOSED UNDER THE SINK AND H.LAV'S. PRODUCTS SHALL BE AS MANUFACTURED BY TRUCAR PRODUCTS INC. INSULATION KIT 5100RK, TRUEFIT PRO MODEL 102 INSULATION KIT "P" ARTAFLEX" INSULATION WITH WHITE PVC COVERS, OR APPROVED EQUAL PIPE WRAP INSULATION AND COVERS.
13. AUTOMATIC INFRARED BATTERY POWERED HEAD ON FLUSH VALVE. AMERICAN STANDARD SELECTRONIC FLUSHE. FIXTURES TO BE AMERICAN STANDARD AS SPECIFIED OR BY SLOAN, ZURN, TOTO OR APPROVED EQUAL.
14. CONCEALED SUPPLY PIPES TO BE COPPER.
15. TRAPS & SUPPLY PIPES TO BE BY McGUIRE, AMERICAN STANDARD, ECONOMY, OR EQUAL.
16. FLOOR MOUNT SUPPORT FURNISHED WITH H.J.R. PROVIDE BLOCKING IN WALL AND BOLT IT TO BACKING IN WALL.
17. FIXTURE SUPPORTS, S.H., H.B., F.D., E.C.O., AND F.C.O MANUFACTURERS: JR SMITH, WADE, ZURN, OR APPROVED EQUAL.
18. REFER TO ARCHITECTURAL DRAWINGS FOR COUNTERTOPS WITH LAVATORY BOWL AND KITCHEN SINK FURNISHED AS INTEGRAL PART OF COUNTERTOP.
19. PROVIDE 1/2" C.W. AND 1/2" H.W. IN WALL TO SHOWER VALVE AND 1/2" MIXED WATER UP TO SHOWER HEAD.
20. MOUNT SHOWER HEAD AT 6'-6" ABOVE FLOOR AND SHOWER VALVE AT 4.5" ABOVE FINISHED FLOOR.
21. SHOWER VALVE MUST COMPLY WITH ASME A112.1016/A.S.S.E. 1016 STANDARDS.
22. REFER TO PLUMBING EQUIPMENT FOR SHOWER STALL AND DRAIN, FURNISHED WITH STALL. PROVIDE TRAP AND TRAP SEAL FOR SHOWER DRAIN.
23. PROVIDE 5" DEEP SEAL TRAP AT EACH SHOWER DRAIN AND FLOOR DRAIN AND INSTALL A.S.S.E. 1072 COMPLIANT BARRIER TYPE TRAP SEAL PROTECTION DEVICE IN EACH DRAIN. MANUFACTURERS: J.R. SMITH, GREEN DRAIN, SURE-SEAL, PRO-VENT, OR APPROVED EQUAL.
24. PROVIDE A DRAIN VALVE AT LOW POINTS OF THE WATER SYSTEM FOR WINTERIZATION WITH TAMPER PROOF VACUUM BREAKER.
25. FIXTURES TO BE MIFAB, SOLIDX CHIEF, ZURN, OR APPROVED EQUAL.
26. SERVICE SINK MANUFACTURERS: MUSTEE, FIAT, AMERICAN STANDARD, OR APPROVED EQUAL.

PLUMBING EQUIPMENT:

ELECTRIC WATER HEATER NO. 1 (EWH-1):

BRADFORD WHITE MODEL RE35S6S6
41" HIGH × 24" DIAMETER
STORAGE CAPACITY: 50 GALLONS
HEATER: 4500 WATTS UPPER/LOWER
VOLTAGE: 208/240V, 1 PHASE, 21.6 AMPS
RECOVERY: 21 GPH @ 50 DEG. F RISE
WITH T&P VALVE PIPED DOWN 3/4" TO 6" AFF
WEIGHT: 144 LBS.
SET AT 140 DEG. F.
MOUNT WATER HEATER ON 4" HIGH PREFAB CONCRETE PAD
MANUFACTURERS: BRADFORD WHITE, STATE, A.O. SMITH OR APPROVED EQUAL.

EXPANSION TANK NO. 1 (ET-1):

WATTS MODEL NO. ST-5-M1 (ASME) AND (ANSI NSF61 RATED)
TANK VOLUME: 2.1 GALLONS
TANK ACCEPTANCE: 1.26 GALLONS
WORKING PRESSURE = 150 PSIG
3/4" NPT CONNECTION
SIZE: 8 DIA. X 11" HIGH
WEIGHT: 8.8.0 LBS.
MANUFACTURERS: WATTS, TACO, AMTROL, B.&G. OR APPROVED EQUAL

TEMPERATURE CONTROL VALVE NO. 1 (TCV-1):

WATTS TEMP CONTROL MODEL NO. LFH170-US-1/2
SET AT 120°F (ADJUSTABLE)
PROVIDE WITH THERMOSTAT ON OUTLET PIPE TO FIXTURES
BY WATTS, SYMMONS, POWERS, LEONARD, OR APPROVED EQUAL
VALVE IS A.S.S.E. 1017 COMPLIANT

SHOWER STALL:

PROVIDE ONE-PIECE SHOWER STALL WITH SMOOTH WALL FINISH, MOLDED TOILETRY SHELVES, SLIP-RESISTANT TEXTURED BOTTOM, CENTER DRAIN, ACRYLIX APPLIED ACRYLIC SURFACE, BRASS SHOWER DRAIN.
STANDARD COLOR: BISCUIT
BASIS OF DESIGN: AQUATIC MODEL #1363
MANUFACTURERS: AQUATIC, DREAMLINE, STERLING, KOHLER, DIAMOND, OR APPROVED EQUAL

HOT WATER RECIRC. PUMP NO. 1 (P1):

BELL & GOSSETT MODEL NO. 60R-3LW WITH (2) 1/2" UC-1/26 SWEAT HALF UNIONS
185 WATTS AT 120 VOLT, 1 PHASE WITH AQUASTAT AND THERMAL OVERLOAD SWITCH
RATED AT 5 GPM A 28FT HEAD.
PROVIDE WITH TC AUTOMATIC TIMER KIT AND AQS-1/2" AQUASTAT.

WIRE THE AQUASTAT ON THE PUMP SIDE OF THE TIMER SO THAT THE AQUASTAT CAN START THE PUMP ONLY WHEN THE TIMER ALLOWS IT TO RUN.
THE TIMER SHALL BE SET TO RUN DURING PEAK OCCUPIED PERIODS, AND WILL BE SET TO TURN ON AND OFF AT INTERVALS DURING THE DAY.

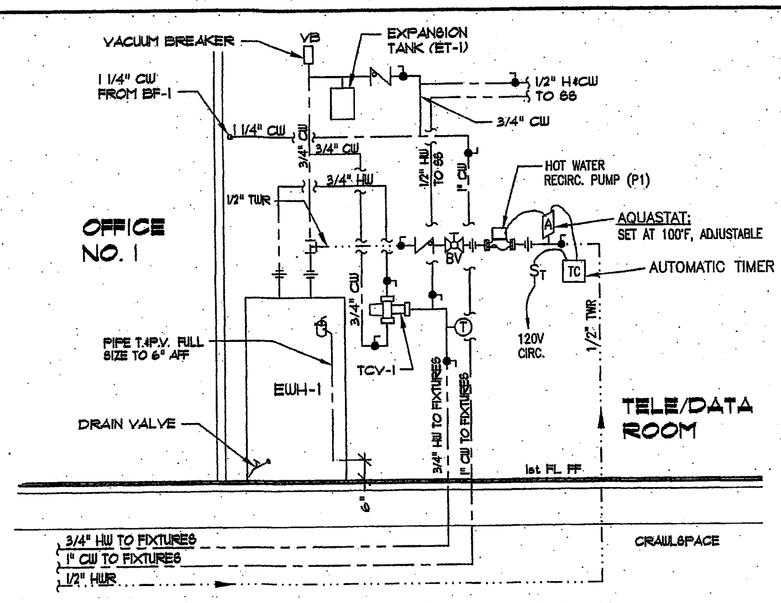
SELF-REGULATING HEATING CABLE (HEAT TAPE):

PROVIDE SELF-REGULATING HEATING CABLE ON WATER PIPES AND SANITARY PIPES IN CRAWL SPACE
PROVIDE SCH. 80 PVC SLEEVE THROUGH CONCRETE FLOOR.
HEAT TAPE SHALL BE OMEGA TYPE SRPB-1C CABLE, RATED AT 120 VOLTS, 5 WATTS PER FOOT, (25' ROLL) AND OMEGA RTCP NEMA 4X SPLICE BOX
ON PIPE, 120 VOLT, 5J CABLE WITH PLUG, PLUG INTO RECEPTACLE IN CRAWLSPACE, FOR HEAT TAPE

MANUFACTURERS: OMEGA, NELSON, EASY TAPE OR APPROVED EQUAL.

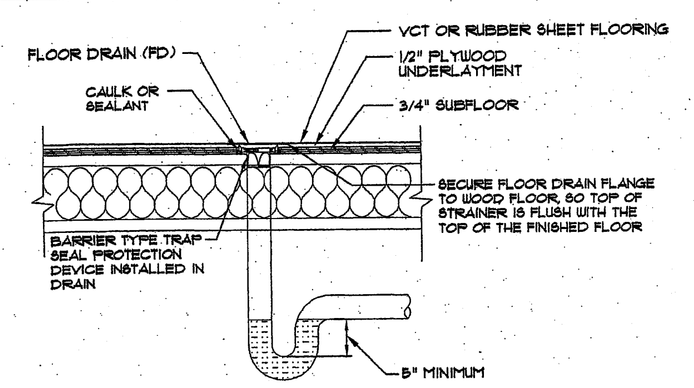
NOTE: CONTRACTOR SHALL FURNISH AND INSTALL 20 AMP, 1 POLE GFEP BREAKERS IN PANEL A FOR EACH CIRCUIT FOR PIPE HEAT TRACE.

FURNISH AND INSTALL "WARNING - ELECTRICAL HEAT TAPE" SIGN ON WATER PIPES AND SANITARY DRAIN PIPES WITH HEAT TAPE.



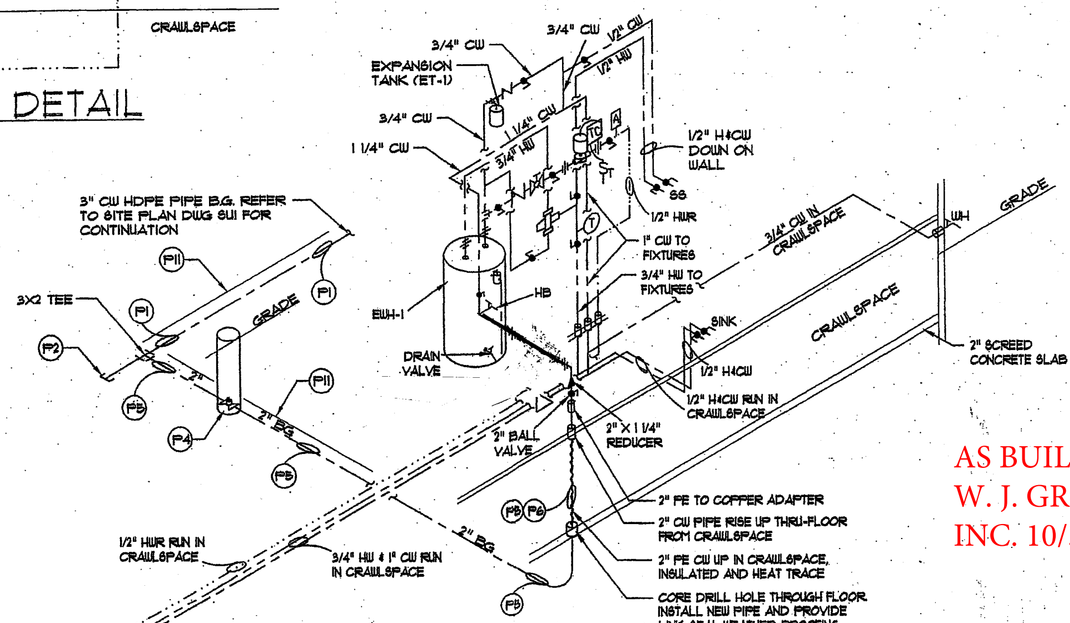
WATER HEATER PIPING DETAIL

NO SCALE



FLOOR DRAIN DETAIL

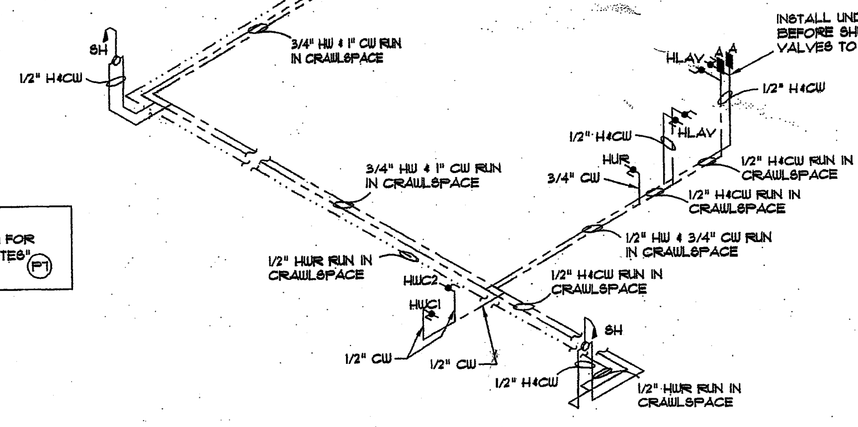
NO SCALE



AS BUILTS
W. J. GROSS, INC. 10/30/20

AS-BUILT DRAWINGS

KISBY SHORE PLUMBING & HEATING CO.
CERTIFIED DATE 10/30/20



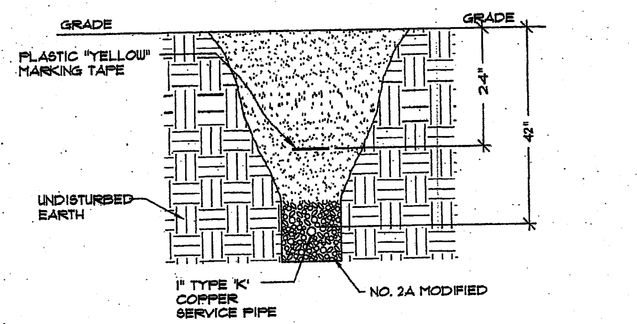
NOTE: REFER TO DRAWING P1 FOR "KEYED PLUMBING NOTES" (P1)

NOTES:
1. ALL HOT, COLD, AND HOT WATER RECIRC. WATER PIPES WILL BE INSULATED.
2. ALL HOT, COLD, AND HOT WATER RECIRC. WATER PIPES IN CRAWLSPACE WILL BE HEAT TRACED AND INSULATED.

WATER RISER DIAGRAM

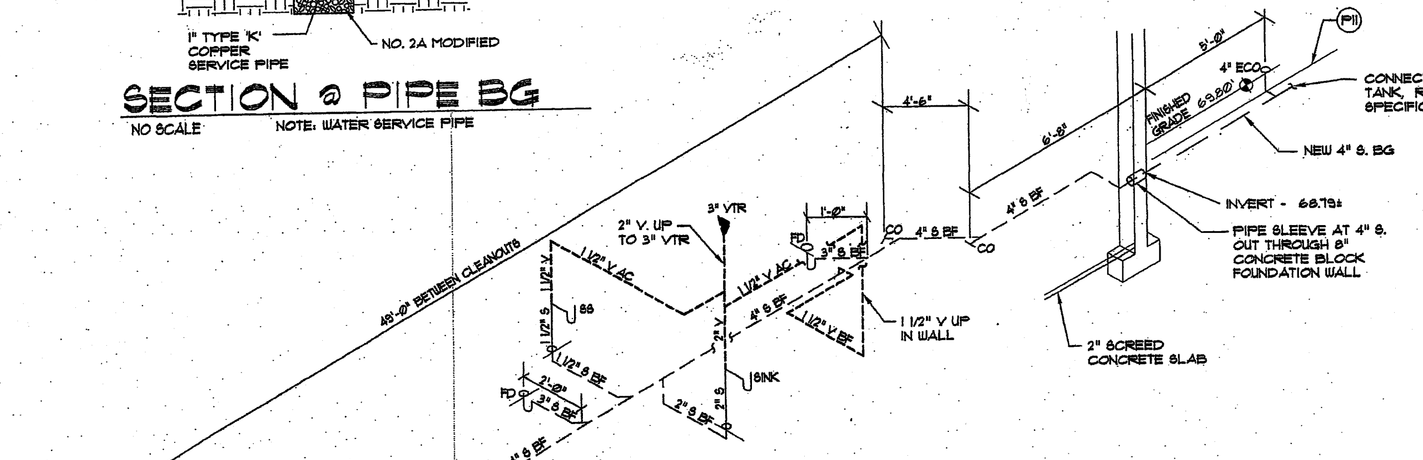
NO SCALE

OFFICE BUILDING	
WSFU'S = 22	
PEAK FLOW = 15 GPM	
PRESSURE DROP FROM STREET TO BUILDING, (BASED ON 15 GPM PEAK FLOW)	
PRESSURE IN WATER MAIN IN STREET	58.0 psi
– PRESSURE DROP THROUGH METER	–2.0 psi
– 700 FEET 3" HDPE @ 0.2 psi/100 FT.	–1.4 psi
– PRESSURE DROP THROUGH 3X2 TEE	–1.0 psi
– PRESSURE DROP 2" HDPE 20'X0.2/100'	–0.4 psi
– PRESSURE DROP CURB VALVE	–1.0 psi
PRESSURE ENTERING THE BUILDING	= 52.2 psi
PRESSURE DROP IN BUILDING	
– BACKFLOW PREVENTER PRESSURE DROP	–2.0 psi
– PIPING PRESSURE DROP TO FURTHEREST FIXTURE	–3.0 psi
TOTAL PRESSURE DROP FOR BUILDING	= –5.0 psi
PRESSURE DROP AT LAST FIXTURE	= 47.2 psi



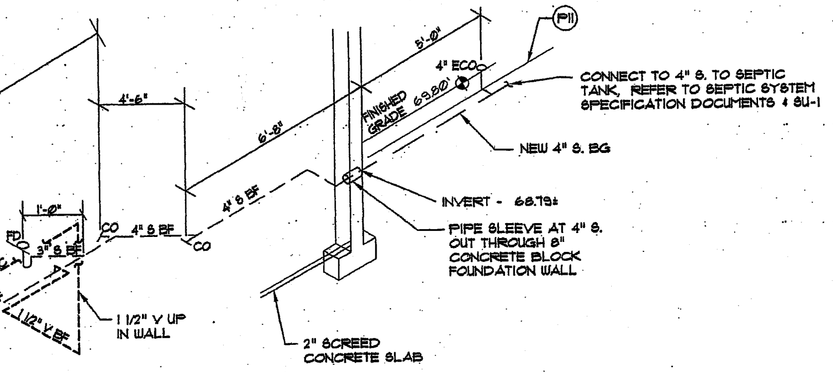
SECTION @ PIPE B.G.

NO SCALE NOTE: WATER SERVICE PIPE



SANITARY RISER DIAGRAM

NO SCALE

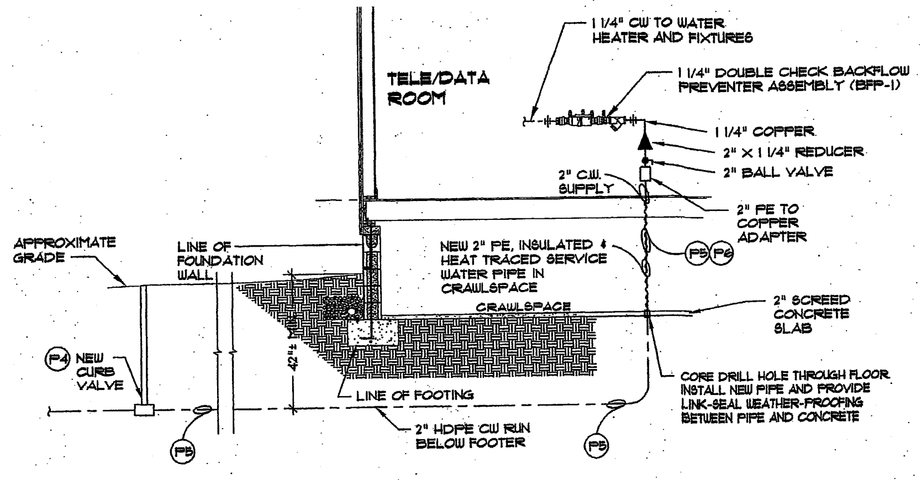


NOTE: MINIMUM SLOPE SANITARY = 1/4" PER FOOT

NOTE:
ALL SANITARY LINES IN CRAWLSPACE SHALL BE HEAT TRACED AND INSULATED.

TOTAL DFU'S = 22 DFU'S

C.W. AND H.W. PIPES TO FIXTURES.
THESE PIPES RUN THROUGH CRAWLSPACE AND SHALL BE HEAT TRACED AND INSULATED IN THE CRAWLSPACE.
PROVIDE HEAT TAPE AND INSULATION ON ALL COLD AND HOT WATER PIPES IN CRAWLSPACE.



⚠ WATER SERVICE ENTRANCE SECTION

NO SCALE

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

PLUMBING RISERS, SCHEDULES AND DETAILS

SUBMISSION	BY	DATE
FINAL	LC	02/26/18
FINAL 2	LC	06/13/18
FINAL 3	LC	02/28/19
PERMIT/BID	LC	07/17/19

RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE – PLANNING – DESIGN
405 RICHMOND AVE.
POINT PLEASANT BEACH, NEW JERSEY

EASTERN CONSULTANTS, INC.
CONSULTING ENGINEERS
2211 LEHIGH ST. P.O. BOX 4539
EASTON, PENNSYLVANIA 18043

David J. Parsons, PE
DAVID J. PARSONS, N.J.P.E. NO 24014

P2

EXHIBIT 'E'

EXHIBIT 'E'

MECHANICAL EQUIPMENT:

SPLIT SYSTEM HEAT PUMP SYSTEM (AHU-1 & HP-1):

AIR HANDLER UNIT NO. 1 (AHU-1):

TRANE MODEL GAM5B0C60 AIR HANDLER WITH DX COIL & ELECTRIC HEAT COIL
TOTAL COOLING: 52,274 BTUH SENSIBLE COOLING: 42,510 BTUH SEER = 15.0
HEATING @ 47 DEG. F. = 52,000 BTUH COP = 3.5 HSPF = 9.0
HEATING @ 17 DEG. F. = 35,200 BTUH COP = 2.7
AIR FLOW = 1920 CFM
MINIMUM OUTSIDE AIR = 263 CFM
BACKUP ELECTRIC HEAT: 9.6 KW @ 240-VOLT: 32,640 BTUH
ELECTRICAL CONNECTED LOAD @ 240 VOLT, 60 HZ, 1 PHASE: 47.5 AMPS
MIN. CIRCUIT AMPACITY = 60 AMPS
HCAR MCOP BREAKER OR DUAL ELEMENT FUSES = 60 AMPS
PROVIDE WITH BLOWER OFF DELAY AND AIR FLOW SWITCH.

PROVIDE TRANE OR HONEYWELL 7-DAY PROGRAMMABLE THERMOSTAT

PROVIDE A MIXING BOX COMPLETE WITH DAMPER MOTORS, ECONOMIZER CONTROLLER AND LOGIC MODULES FOR ENTHALPY CONTROL OF ECONOMIZER

PROVIDE CONTROL WIRING BETWEEN AHU-1, HP-1, PROGRAMMABLE THERMOSTAT AND ECONOMIZER

MANUFACTURERS: TRANE, CARRIER, YORK OR APPROVED EQUALS.

PROVIDE 1" ID PVC CONDENSATE PIPE FROM DX COIL CONDENSATE OUTLET AND DEEP SEAL TRAP AND RUN PIPE DOWN TO FLOOR DRAIN. STOP PIPE 2" MIN. ABOVE THE FLOOR DRAIN.
SLOPE HORIZONTAL PIPE AT 1/4" PER FOOT.

HEAT PUMP NO. 1 (HP-1):

TRANE MODEL NO. 4TWR7060 · TWO-STAGE HEAT PUMP
PROVIDE WITH LOW AMBIENT KIT, HEAD PRESSURE CONTROL
ELECTRICAL: 208/230 VOLT, 60 HZ, 1 PHASE
TOTAL AMPS: 37
MCA: 60 AMPS
HACR BREAKER OR DUAL ELEMENT FUSE= 60 AMPS

PROVIDE REFRIGERANT LINE SET BETWEEN AH-1 AND HP-1
REFRIGERANT LINE SET: 3/8" OD LIQUID, 1-1/8" OD VAPOR
REFRIGERANT: R-410A
PROVIDE LIQUID AND VAPOR LINE SET AND CONTROL WIRING BETWEEN HP-1 AND AHU-1 IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PROVIDE EXTREME CONDITION MOUNTING KIT FOR HEAT PUMP WITH FOUR (4) CLIPS ATTACHED TO THE HEAT PUMP IN FOUR LOCATIONS AND WITH 1/4" DIA. X 2" LONG 316 S.S. SCREWS INTO CONCRETE CURB. PROVIDE 42" L X 42" W X 4" THICK CONCRETE EQUIPMENT CURB FOR HP-1.

AUTOMATIC TEMPERATURE CONTROL - SEQUENCE OF OPERATIONS

THE AUTOMATIC TEMPERATURE CONTROLS SUPPLIED WITH EACH SPLIT SYSTEM HEAT PUMP WILL PROVIDE THE FOLLOWING SEQUENCE OF OPERATIONS:

A PROGRAMMABLE THERMOSTAT WILL BE ABLE TO AUTOMATICALLY CHANGE FROM OCCUPIED TO UNOCCUPIED MODES OF OPERATION AND AUTOMATICALLY CHANGE FROM HEATING TO COOLING OPERATION BASED ON 7-DAY WEEKLY PROGRAM. IF THE HEAT PUMP CANNOT PROVIDE ENOUGH HEAT OR FAILS, THE THERMOSTAT WILL ACTIVATE THE AUXILIARY ELECTRIC HEATING COIL IN AHU-1.

OCCUPIED MODE: THE SYSTEM FAN WILL RUN CONTINUOUSLY, OUTDOOR AIR DAMPER WILL BE OPENED TO THE MINIMUM POSITION, IF COOL AIR IS AVAILABLE THE ENTHALPY CONTROLLER WILL OPEN DAMPER MORE FOR FREE COOLING. THE THERMOSTAT WILL CALL FOR HEATING OR COOLING TO MAINTAIN SPACE TEMPERATURE SETTINGS FOR THE OCCUPIED TIME PERIOD. THE CONTROL SYSTEM WILL BE CONNECTED TO RELAYS TO START EF-1 AND EF-2 TO RUN AT ALL TIMES DURING THE OCCUPIED TIME PERIOD.

UNOCCUPIED MODE: THE CONTROLLER WILL CLOSE OUTSIDE AIR DAMPERS, TURN OFF EF-1 AND EF-2, AND TURN OFF AHU-1 FAN. DURING THIS TIME PERIOD IF THE THERMOSTAT REQUIRES HEAT IT WILL START HEAT PUMP IN HEATING MODE, AND IF COOLING IS REQUIRED IT WILL START HEAT PUMP IN COOLING MODE.

CONTROLS - EXHAUST FANS (EF-1 & EF-2):

DURING OCCUPIED PERIOD ATC FOR HVAC SYSTEM THROUGH RELAY WILL ENERGIZE CIRCUITS SO THAT EF-1 AND EF-2 WILL RUN CONTINUOUSLY. DURING UNOCCUPIED PERIODS AN OCCUPANCY SENSOR IN THE MEN'S ROOM WILL ENERGIZE EF-1 AND AN OCCUPANCY SENSOR IN THE WOMEN'S ROOM WILL ENERGIZE EF-2 WHEN ROOMS ARE OCCUPIED.

ELECTRIC WALL HEATERS (WH-1, 2):

CAPACITY: 5120 BTUH, 1000 WATTS, 240 VOLT, 1-PHASE, 4.2 AMPS
"Q-MARK" MODEL SED1024C SEMI-RECESSED WITH 1-1/4" DEEP SURFACE COVER
SEMI-RECESSED MOUNTING, WITH 14 GAUGE SECURITY FRONT COVER, BACKBOX, HEATER ASSEMBLY
CONCEALED TAMPERPROOF THERMOSTAT WITH REMOVABLE FRONT TEMPERATURE DIAL,
CONCEALED 2-POLE SNAP-ACTION THERMOSTAT WITH REMOVABLE FRONT TEMPERATURE DIAL,
THERMAL CUT-OUT SWITCH, AND FAN, AND FRONT COVER PLUG BUTTON.
ASSEMBLY AND FRONT PANEL.
AFTER TEMPERATURE IS SET THERMOSTAT DIAL CAN BE REMOVED AND BUTTON INSTALLED IN FRONT COVER SO THAT TEMPERATURE CANNOT BE CHANGED. (SET AT 65 DEG. F.)
MANUFACTURERS: Q-MARK, BERKO, MARLEY OR APPROVED EQUALS.

GRILLE, REGISTER & DIFFUSER SCHEDULE

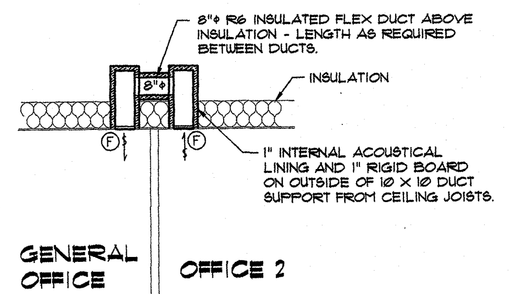
NO.	MFGR.	MODEL	LISTED SIZE	PATTERN	REMARKS
A	METAL*AIRE	5500-2-S4	15X15	4-WAY SQUARE	1,2,3
B		5500-2-S4	12X12	4-WAY SQUARE	1,2,3
C		5500-2-SC	6X6	2-WAY CORNER SQUARE	1,2,3
D		V4004D-1	6X4	S/A REGISTER	1,3,4,5
F		RHE-1	10X10	TRANSFER	3
G	METAL*AIRE	RH	24X30	R/A GRILLE	1,3,6

REMARKS:
1. ALUMINUM CONSTRUCTION WITH OFF-WHITE BAKED ENAMEL FINISH.
2. PROVIDED WITH OPPOSED BLADE DAMPERS.
3. MANUFACTURERS: METAL-AIRE, TITUS, CARNES, OR APPROVED EQUALS.
4. DOUBLE DEFLECTION REGISTER WITH OPPOSED BLADE DAMPERS.
5. PROVIDE 6" X 4" DUCT FROM MAIN S/A DUCT WITH FLANGES TO MOUNT REGISTER.
6. 24" WIDE X 30" HIGH R/A GRILLE EXTRUDED ALUMINUM WITH HORIZONTAL BLADES.

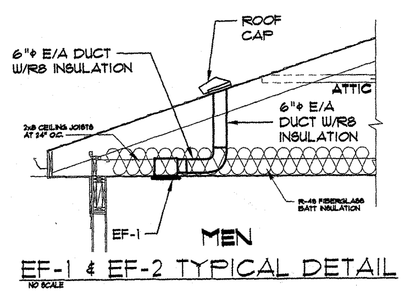
VENTILATION SCHEDULE

ROOM NAME	AREA SQ. FT.	NO. OF PEOPLE	REQUIRED AIRFLOW TOTAL ACH	REQUIRED AIRFLOW O/A ACH	SUPPLY DESIGN AIRFLOW TOTAL ACH	SUPPLY DESIGN AIRFLOW O/A ACH
OFFICE 1	138	2	195 CFM	20 CFM	195 CFM	20 CFM
GENERAL OFFICE	392	20	968 CFM	144 CFM	970 CFM	145 CFM
OFFICE 2	141	2	238 CFM	20 CFM	240 CFM	20 CFM
OFFICE 3	138	2	233 CFM	20 CFM	235 CFM	20 CFM
TELE/DATA	86	0	37 CFM	5 CFM	40 CFM	5 CFM
WOMEN	168	2	77 CFM	22 CFM	70 CFM	22 CFM
MEN	206	2	82 CFM	24 CFM	100 CFM	25 CFM
VESTIBULE	87	0	25 CFM	5 CFM	70 CFM	6 CFM
TOTALS		30	1855 CFM	260 CFM	1920 CFM	263 CFM

NOTE:
EXHAUST AIR FROM MEN'S ROOM = 150 CFM
WOMEN'S ROOM = 100 CFM
SUPPLY AIR INTO ROOMS LESS THAN, ADDITIONAL MAKEUP AIR TRANSFERRED FROM VESTIBULE FOR THESE ROOMS.



TYPICAL TRANSFER DUCT DETAIL
NO SCALE



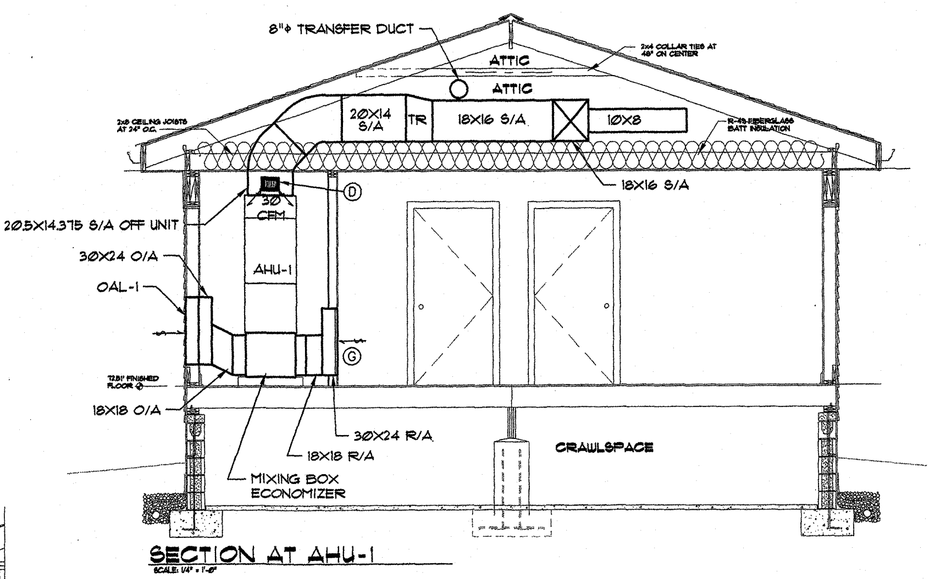
EF-1 & EF-2 TYPICAL DETAIL
NO SCALE

EXHAUST FAN SCHEDULE

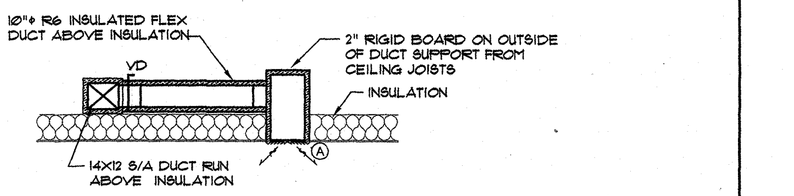
FAN NO.	USE	LOCATION	CFM	SP	SONES	MANUFACTURER	MODEL	ELECTRICAL	AMPS	REMARKS
EF-1	VENTILATION	MEN'S ROOM	150	.100	1.4	BROAN	QTXE150	115 V, 1 PH.	.5	1,2,3,5
EF-2	VENTILATION	WOMEN'S ROOM	100	.136	1.4	BROAN	QTXE150	115 V, 1 PH.	.5	1,2,3,5
EF-3	VENTILATION	TELE/DATA ROOM	50	.136	6.5	BROAN	509	115 V, 1 PH.	1.7	4,5

NOTES:
1. EF1 AND EF2 ARE CEILING MOUNTED. CONTRACTOR TO PROVIDE ALUMINUM FROM EXHAUST FAN OUTLET TO ROOF VENT. PROVIDE 1-1/2" INSULATION AROUND E/A DUCT.
2. PROVIDE "BROAN" MODEL 634M ROOF VENT WITH BLACK FINISH FOR EACH EF.
3. EF-1 & EF-2 SHALL RUN CONTINUOUSLY DURING OCCUPIED PERIODS, AND WITH LIGHTING OCCUPANCY SENSOR CONTROL DURING UNOCCUPIED PERIODS.
4. EF-3 IS THROUGH THE WALL FAN WITH OUTSIDE COVER AND WILL BE OPERATED BY TIMER SWITCH.
5. MANUFACTURERS: BROAN, NUTONE, PANASONIC, OR APPROVED EQUALS.

OUTSIDE AIR LOUVER (OAL-1)
'NCA' MODEL NO. XAD-GL EXTRUDED ALUMINUM DRAINABLE BLADES WITH POLYURETHANE ACRYLIC ENAMEL FINISH.
SIZE 24" WIDE X 30" HIGH X 6" DEEP WITH CHANNEL FRAME
NOTE: CONTRACTOR TO FRAME EXTERIOR WALL OPENING TO ACCEPT CHANNEL FRAME AND CAULK AROUND LOUVER AFTER IT IS INSTALLED.
MANUFACTURERS: NCA, GREENHECK, CARNES OR APPROVED EQUAL.



SECTION AT AHU-1
SCALE: 1/4"=1'-0"

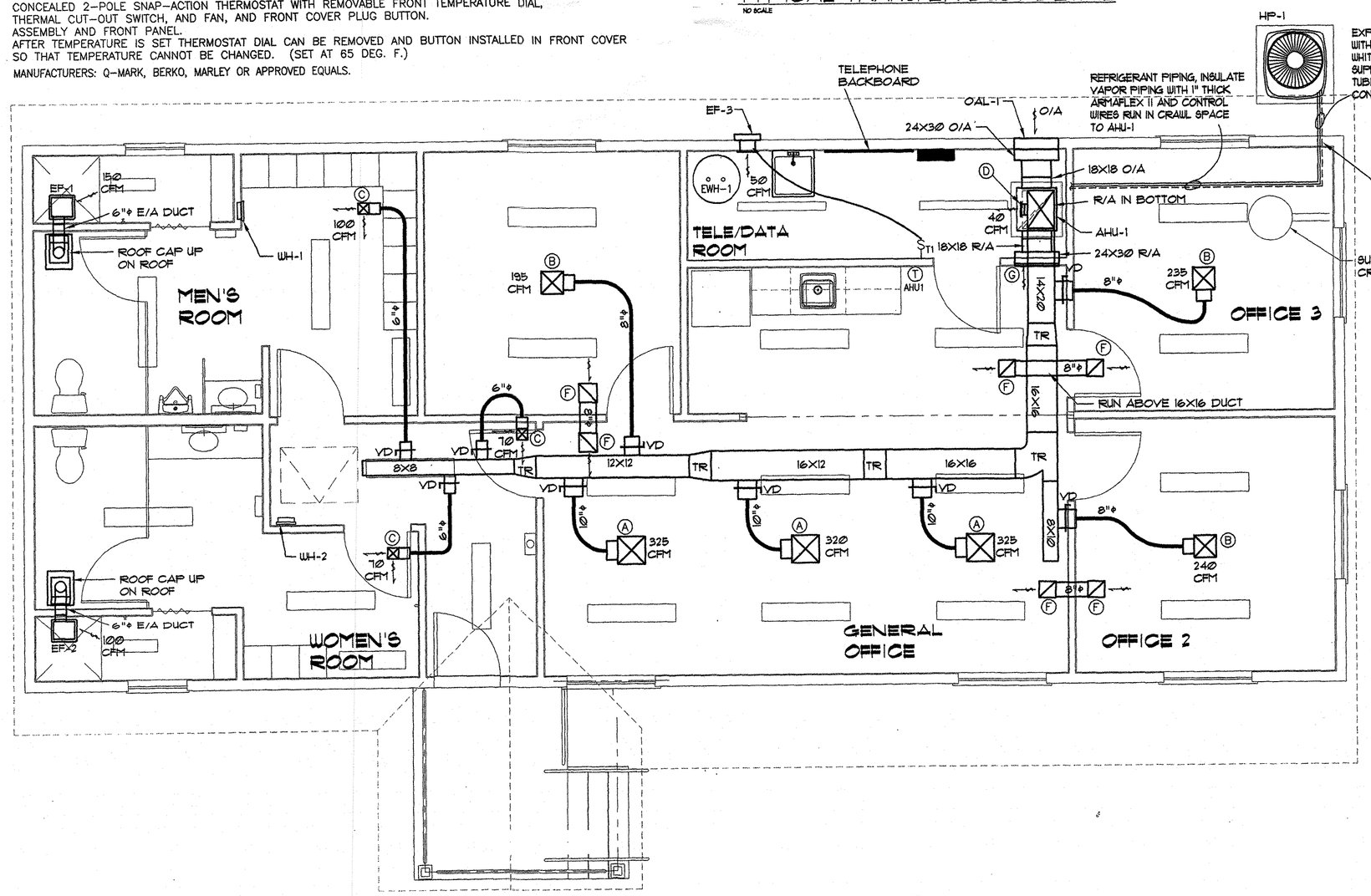


TYPICAL CONNECTION TO S/A DIFFUSER
NO SCALE
NOTE: DUCT PLENUM DOWN TO DIFFUSER SIZE BASED ON DIFFUSER SERVED SEE DIFFUSER SCHEDULE FOR DIFFUSER NECK SIZE FOR DUCT SIZE

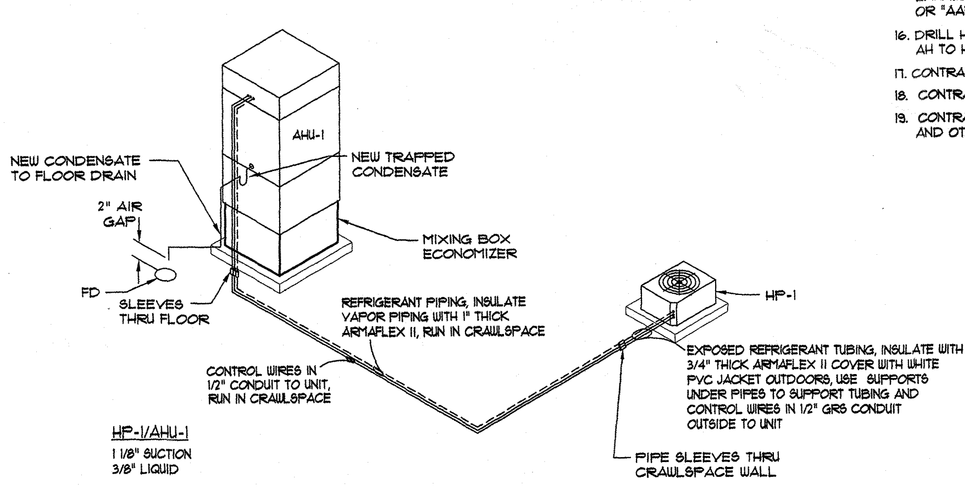
AS BUILTS
W. J. GROSS, INC.
10/30/20

HVAC DRAWING NOTES:

1. ALL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE NEW JERSEY UNIFORM CONSTRUCTION CODE, THE NJ EDITION OF 2015 INTERNATIONAL BUILDING CODE' THE 2015 INTERNATIONAL MECHANICAL CODE, AND THE 2013 ANSI/ASHRAE/IES 90.1 BUILDING ENERGY CODE, AND THE 2014 NATIONAL ELECTRICAL CODE.
2. THE CONTRACTOR SHALL INSTALL ALL HVAC EQUIPMENT AND INSTALL WHERE SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ATTACHMENTS AS REQUIRED TO ANCHOR OR SUPPORT EQUIPMENT.
3. CONTRACTOR SHALL FURNISH AND INSTALL HOLD-DOWN BRACKETS FOR THE HEAT PUMP TO ANCHOR IT TO THE CONCRETE SLAB IT IS MOUNTED ON.
4. CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING BETWEEN THE AIR HANDLERS AND HEAT PUMP UNITS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. PROVIDE CHARGING VALVES AND REFRIGERANT CHARGE SYSTEM TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. CONTRACTOR SHALL CHARGE REFRIGERATION SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND ARI STANDARDS.
7. CONTRACTOR TO FURNISH AND INSTALL A 1" TRAPPED CONDENSATE FROM AH UNIT COOLING COIL AND PIPE INDIRECT DRAIN TO A FLOOR FLOOR DRAIN.
8. FURNISH AND INSTALL INSULATION ON ALL SUPPLY, RETURN, AND EXHAUST DUCTS AND INSTALL IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
9. CONTRACTOR SHALL FURNISH AND INSTALL GALVANIZED STEEL SHEET METAL DUCTS IN THICKNESS AS SPECIFIED IN 2015 IMC TABLE 603.4 BASED ON DUCT SIZE. APPROVED SEALANT SHALL BE USED TO SEAL ALL DUCT JOINTS TO PREVENT AIR LEAKAGE.
10. FLEXIBLE AIR DUCTS SHALL BE CONSTRUCTED TESTED IN ACCORDANCE WITH "UL181" WITH FIBERGLASS INSULATION R6 RATING AND EXTERIOR ALUMINIZED VAPOR BARRIER.
11. INSULATION ON SUPPLY DUCTS IN ATTIC SHALL BE 2" THICK 'JM' EQ FSK TYPE 100* FLEXIBLE INSULATION WITH FSK EXTERIOR VAPOR BARRIER, R=7.0. TAPE ALL SEAMS.
12. INSULATION ON SUPPLY DUCTS IN TELE/DATA ROOM SHALL BE 1" THICK 'JM 814 SPUNGLASS WITH WHITE "AP" EXTERIOR VAPOR BARRIER, R=3.5.
13. INSULATION ON RETURN AIR DUCT SHALL BE "JM PERMACOUSTIC RC-HP" DUCT LINER 1" THICK ON INTERIOR OF THE R/A DUCT. THIS WILL ALSO BE INSTALLED ON INSIDE OF TRANSFER DUCTS IN ATTIC ALONG WITH 1" THICK JM SPUNGLASS 814 ON DUCT EXTERIOR.
14. DUCT INSULATION SHALL BE AS MANUFACTURED BY JOHN MANSVILLE ('JM'), KNAUF, OWENS CORNING OR APPROVED EQUAL.
15. CONTRACTOR SHALL INCLUDE BALANCING OF ALL AIR SYSTEMS INCLUDING MEASUREMENTS OF AIR FLOWS AND PRESSURE DIFFERENTIALS AT THE AIR HANDLER, AMPS ON MOTOR, SPEED CONTROL SETTING, AND AIR FLOW AT EACH REGISTER, DIFFUSER AND GRILLE, AND EXHAUST FANS. CONTRACTOR SHALL PROVIDE COMPLETE BALANCE REPORT BY A "NEBB'S" OR "AABC" CERTIFIED AIR BALANCER FOR THE HVAC SYSTEMS.
16. DRILL HOLES IN EXTERIOR WALLS FOR REFRIGERANT LINES AND ELECTRICAL LINES FROM AH TO HP. PROVIDE WEATHERPROOF PENETRATIONS.
17. CONTRACTOR SHALL CAULK SEAL AROUND ALL PENETRATIONS OF EXTERIOR WALL.
18. CONTRACTOR SHALL COORDINATE AND CONDUCT ALL INSPECTIONS WITH THE CODE OFFICIALS.
19. CONTRACTOR TO PROVIDE EXTENDED 5-YEAR WARRANTY ON THE HEAT PUMP COMPRESSOR AND OTHER EQUIPMENT AS SPECIFIED IN DIVISION I OF THE SPECIFICATIONS.



NEW OFFICE BUILDING FLOOR PLAN - HVAC
SCALE: 1/4" = 1'-0"



TYPICAL HP/AHU AND CONDENSATE PIPING DIAGRAM
NO SCALE

SYMBOL LIST

S/A	SUPPLY AIR		DIRECTION OF AIR FLOW
R/A	RETURN AIR	EF-1	EXHAUST FAN NO. 1
E/A	EXHAUST AIR	EWH-1	ELECTRIC WALL HEATER NO. 1
O/A	OUTSIDE AIR	AHU-1	AIR HANDLING UNIT NO. 1
10X12	DUCTWORK W/DUCT SIZE	T AHU1	THERMOSTAT FOR AHU-1
	ROUND FLEXIBLE AIR DUCT	R.S.	REFRIGERANT VAPOR
AC	ABOVE CEILING	R.L.	REFRIGERANT LIQUID
A.F.F.	ABOVE FINISH FLOOR	OAL-1	OUTSIDE AIR LOUVER NO. 1
A.F.G.	ABOVE FINISH GRADE		
CFM	CUBIC FEET PER MINUTE		
DN	DOWN		

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

HVAC PLAN SCHEDULES AND DETAILS

SUBMISSION	BY	DATE
FINAL	LC	02/26/18
FINAL 2	LC	06/13/18
FINAL 3	LC	02/28/19
PERMIT/BID	LC	07/17/19

RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE - PLANNING - DESIGN
405 RICHMOND AVE.
POINT PLEASANT BEACH, NEW JERSEY

EASTERN CONSULTANTS, INC.
CONSULTING ENGINEERS
2211 LEHIGH ST. P.O. BOX 4539
EASTON, PENNSYLVANIA 18043

DAVID J. PARSONS, N.J.P.E. NO 24014

H1

EXHIBIT 'E'

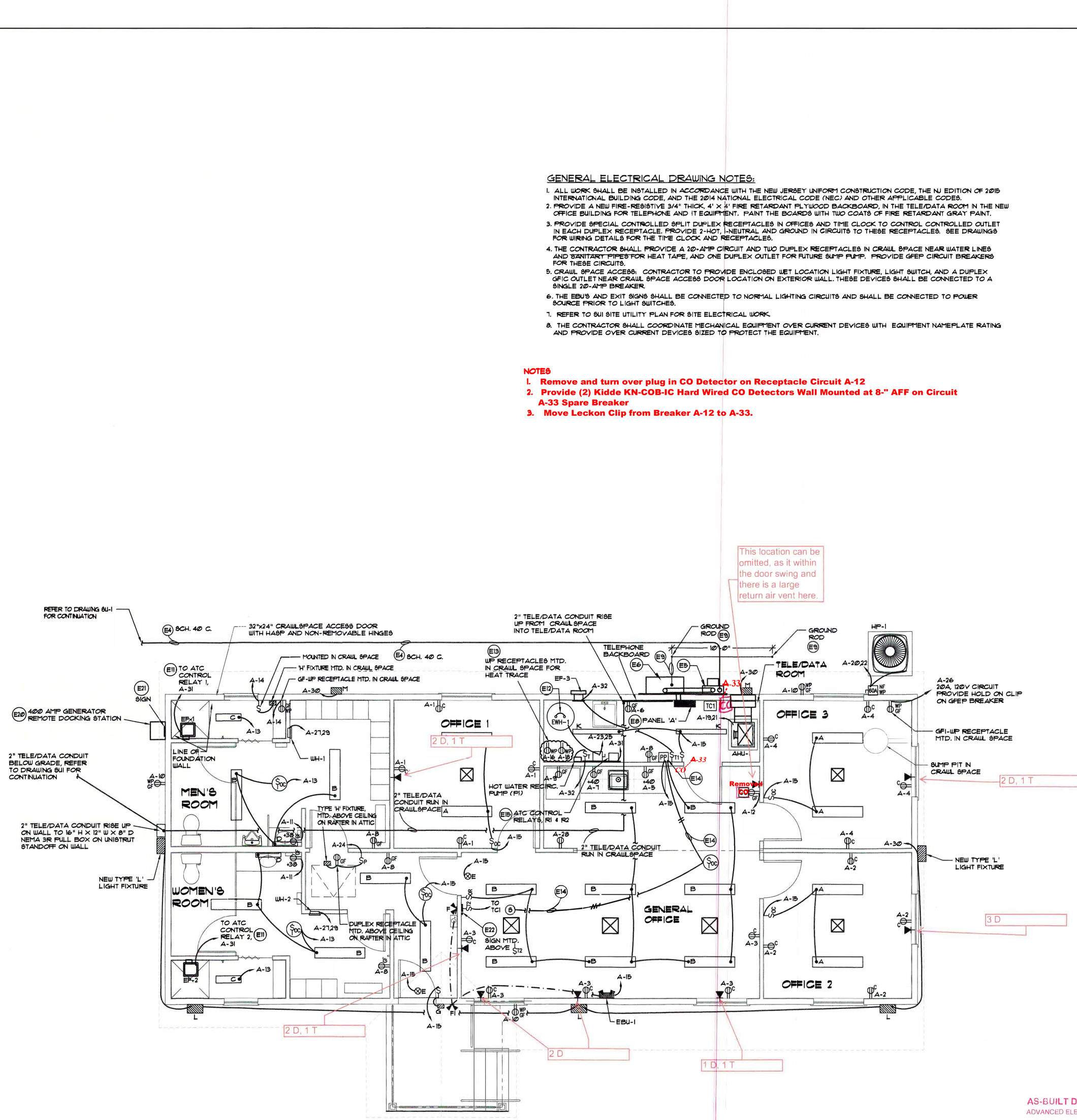
GENERAL ELECTRICAL DRAWING NOTES:

1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW JERSEY UNIFORM CONSTRUCTION CODE, THE NJ EDITION OF 2015 INTERNATIONAL BUILDING CODE, AND THE 2014 NATIONAL ELECTRICAL CODE (NEC) AND OTHER APPLICABLE CODES.
2. PROVIDE A NEW FIRE-RESISTIVE 3/4" THICK, 4' X 4' FIRE RETARDANT PLYWOOD BACKBOARD, IN THE TELE/DATA ROOM IN THE NEW OFFICE BUILDING FOR TELEPHONE AND IT EQUIPMENT. PAINT THE BOARDS WITH TWO COATS OF FIRE RETARDANT GRAY PAINT.
3. PROVIDE SPECIAL CONTROLLED SPLIT DUPLEX RECEPTACLES IN OFFICES AND TIME CLOCK TO CONTROL CONTROLLED OUTLET IN EACH DUPLEX RECEPTACLE. PROVIDE 2-HOT, 1-NEUTRAL AND GROUND IN CIRCUITS TO THESE RECEPTACLES. SEE DRAWINGS FOR WIRING DETAILS FOR THE TIME CLOCK AND RECEPTACLES.
4. THE CONTRACTOR SHALL PROVIDE A 20-AMP CIRCUIT AND TWO DUPLEX RECEPTACLES IN CRAWL SPACE NEAR WATER LINES AND SANITARY PIPES FOR HEAT TAPE, AND ONE DUPLEX OUTLET FOR FUTURE SUMP PUMP. PROVIDE GFEP CIRCUIT BREAKERS FOR THESE CIRCUITS.
5. CRAWL SPACE ACCESS. CONTRACTOR TO PROVIDE ENCLOSED WET LOCATION LIGHT FIXTURE, LIGHT SWITCH, AND A DUPLEX GFIC OUTLET NEAR CRAWL SPACE ACCESS DOOR LOCATION ON EXTERIOR WALL. THESE DEVICES SHALL BE CONNECTED TO A SINGLE 20-AMP BREAKER.
6. THE EBU'S AND EXIT SIGNS SHALL BE CONNECTED TO NORMAL LIGHTING CIRCUITS AND SHALL BE CONNECTED TO POWER SOURCE PRIOR TO LIGHT SWITCHES.
7. REFER TO SU1 SITE UTILITY PLAN FOR SITE ELECTRICAL WORK.
8. THE CONTRACTOR SHALL COORDINATE MECHANICAL EQUIPMENT OVER CURRENT DEVICES WITH EQUIPMENT NAMEPLATE RATING AND PROVIDE OVER CURRENT DEVICES SIZED TO PROTECT THE EQUIPMENT.

NOTES

1. **Remove and turn over plug in CO Detector on Receptacle Circuit A-12**
2. **Provide (2) Kidde KN-COB-IC Hard Wired CO Detectors Wall Mounted at 8-" AFF on Circuit A-33 Spare Breaker**
3. **Move Leckon Clip from Breaker A-12 to A-33.**

This location can be omitted, as it within the door swing and there is a large return air vent here.



NEW OFFICE BUILDING FLOOR PLAN - ELECTRICAL

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

ELECTRICAL SYMBOL LIST

	SURFACE MOUNTED ELECTRICAL PANEL
+38 WP GF	DUPLEX OUTLET SYMBOL (MTD. 18" AFF, OR AS NOTED ON DRAWING) WP - WEATHERPROOF GF - GROUND FAULT PROTECTED +40 = MOUNTING HEIGHT TO BOTTOM
—S—	LIGHT SWITCH (20 A, 1-P)
ST	MANUAL ON-OFF TOGGLE SWITCH, 15 AMP, 120 VOLT, FOR P1
ST1	TIMER SWITCH 0 - 60 MINUTES
ST2	TIMER SWITCH 0 - 2 HOURS CONTROLLED RECEPTACLE OVERRIDE
SP	P = PILOT
SOR	LIGHTING CONTROL OVERRIDE "OFF" OR "AUTO"
OCC	CEILING MOUNTED OCCUPANCY SENSOR SWITCH
EBU-1	EMERGENCY BATTERY UNIT NO. 1
F	WALL MTD. EMERGENCY REMOTE LIGHTS
E	CEILING MTD. 'EXIT SIGN'
	CONTROLLED DUPLEX RECEPTACLE TOP - CONTROLLED BOTTOM - ON AT ALL TIMES
	TELE/DATA OUTLET
TC1	TIME CLOCK 1 4 CIRCUIT ELECTRONIC WITH REMOTE OVER-RIDE BUTTON, RECESSED ALL RECEPTACLES MARKED WITH 'C' SHALL BE SPLIT WIRED WITH TOP RECEPTACLE WIRED THRU TC1
DR	OVER RIDE BUTTON
PP	OCCUPANCY POWER PACK/RELAY
L	TYPE 'L' LIGHT FIXTURE
M	TYPE 'M' LIGHT FIXTURE

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
DN.	DOWN
EX	EXISTING
A-2	CIRCUIT IDENTIFIER PANEL 'A', POLE 2
C	CONDUIT
EMT	ELECTROMETALLIC CONDUIT
RMC	RIGID METAL CONDUIT
FMC	FLEXIBLE METAL CONDUIT
RNC	RIGID NON-METAL CONDUIT
PVC	POLY VINYL CHLORIDE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
MC	METAL-CLAD CABLE
GD	GROUND
JB	JUNCTION BOX
EJB	EXTERIOR JUNCTION BOX
LB	LIQUID TIGHT JUNCTION BOX
BG	BELOW GRADE OR SLAB
UG	UNDER GROUND
AC	ABOVE CEILING
GD	GROUND
	POINT OF NEW CONNECTION TO EXISTING WORK
J	JUNCTION BOX
1	DEMOLITION NOTE BY SYMBOL
1	ELECTRICAL NOTE BY SYMBOL
	NEW WIRING
	LOW VOLTAGE MINIMUM CIRCUIT 2-#12 W/#12 GD IN CONDUIT
A-1	INDICATES HOME RUN TO PANEL 'A', CIRCUIT #1
CO	NEW CARBON MONOXIDE DETECTOR
NF WP 60A	SAFETY SWITCH NF = NON-FUSED WP = NEMA 3R 60A = 60 AMP

AS BUILTS
W. U. GROSS, INC. 10\30\20

AS BUILTS
W. U. GROSS, INC.
10\30\20

AS-BUILT DRAWING
ADVANCED ELECTRICAL INC.
207 W. CLINTON AVE.
OAKLYN, NJ 08107
856-858-6017
Signed by
Date 9/29/20

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

ELECTRICAL PLAN AND NOTES

SUBMISSION	BY	DATE
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E1

PANEL A SCHEDULE

MAINS: 400 AMPS — 120/240 VOLTS, 1 PHASE, 3 WIRE, S/N — LOCATION: TELE/DATA RM
MAIN BRK.: 400A — SPACES: 42 — AIC=22K — MOUNTING: SURFACE

CIRCUIT DESCRIPTION	AMPS A	AMPS B	AMPS C	CIRCUIT BREAKER AMP	POLES P		CIRCUIT BREAKER P	AMP	AMPS A	AMPS B	AMPS C	CIRCUIT DESCRIPTION
RECEPTACLES-OFFICE 1	6			20	1	1	2	1 20	6			RECEPTACLES-OFFICE 2
RECEPTACLES-GEN. OFFICE		6		20	1	3	4	1 20		6		RECEPTACLES-OFFICE 3
RECEPTACLES-KITCHENETTE	10			20	1	5	6	1 20	3			RECEPTACLE-TELE/DATA (L)
RECEPTACLES-KITCHENETTE		3		20	1	7	8	1 20		3		RECEPTACLES-TELE/DATA,MEN,WOMEN
RECEPTACLE-REFRIGERATOR	4			20	1	9	10	1 20	3			RECEPTACLE-OUTSIDE
GFI RECEPTACLE-MEN & WOMEN		3		15	1	11	12	1 15		2		CO DETECTOR (L)
(2) LIGHTS-MEN,WOMEN	3			20	1	13	14	1 20	3			LIGHT/RECEPT.-CRAWLSPACE (L)
LIGHTS-GEN OFF, OFF 2 & 3, TELE/DATA		9		20	1	15	16	1 20		6		RECEPT.-CRAWLSPACE-HEAT TRACE (L) (1)
CONTROLS-TIME CLOCK (L)	1			20	1	17	18	1 20	3			RECEPT.-CRAWLSPACE-HEAT TRACE (L) (1)
AHU-1		47.5		60		19	20	60		37		HP-1
2-#6 & 1-#10 GD	47.5				2	21	22	2	37			2-#6 & 1-#10 GD
EWH-1		21.6		30		23	24	1 20		3		LIGHT/RECEPT-ATTIC
2-#10 & 1-#10 GD	21.6				2	25	26	1 20	6			GFI RECEPT.-CRAWLSPACE (L)
WH-1 & WH-2		8.4		20		27	28	1 20		3		RECEPTACLE-GEN OFFICE
	8.4				2	29	30	1 20	6			LIGHTS - OUTSIDE
(2) EXHAUST FANS 1 & 2		5		20	1	31	32	1 20		2		EF-3
SPARE				20	1	33	34	1 20				SPARE
SPARE						35	36	1 20				SPARE
SPACE						37	38					SPACE
						39	40					
						41	42					
PHASE A TOTALS	101.5					168.5			67			
PHASE B TOTALS		103.5				165.5				62		
TOTAL CONNECTED KVA						40.5						

NOTES: SQUARE D TYPE NQ LOAD CENTER PANELBOARD WITH SURFACE BACKBOX, DOOR COVER, NEUTRAL AND GROUND BARS, AND CIRCUIT BREAKER AS SCHEDULED. INTERRUPTING RATING 22 kA
(1) GFEP CIRCUIT BREAKERS — DO NOT BOND NEUTRAL & GROUND — (L) = LOCK ON CLIP
(2) PROVIDE GFIC CIRCUIT BREAKER

NOTES: PROVIDE REMOVABLE 3-SIDED GALVANIZED COVER ON WALL FOR NMC CABLES FROM PANEL TO FLOOR AND PANEL UP TO CEILING. PROVIDE PVC SLEEVES THROUGH FLOOR FOR NMC WIRES AND SUPPORT NMC CABLES FROM PANEL ON WALL.

KEYED ELECTRICAL NOTES:

E1 EXISTING ACE POLE #34092. ACE TO PROVIDE TRANSFORMER ON THIS POLE TO SERVE THE NEW OFFICE AND DISCONNECT AND REMOVE EX. OVERHEAD SERVICE AND METER ON THE EXISTING BUILDING TO BE REMOVED.

E2 NEW ACE OVERHEAD 120/240 VOLT 3-WIRE SERVICE WIRES TO NEW ACE POLE NEAR NEW OFFICE BUILDING.

E3 NEW ACE UTILITY POLE WITH ACE WITH SECONDARY OVERHEAD WIRES FROM EXISTING POLE #34092 FOR ACE TO MAKE FINAL CONNECTION TO CONTRACTOR SUPPLIED UNDERGROUND SERVICE CONDUCTORS UP ON POLE AND COILED FOR SERVICE CONNECTION BY ACE.

E4 PROVIDE 3-#500 MCM THWN COPPER CONDUITS FROM METER BASE AND BURIED UNDERGROUND AND UP POLE IN CONDUIT AND COILED AT TOP OF CONDUIT FOR CONNECTION BY ACE TO TRANSFORMERS, CONDUITS ABOVE GRADE AND ELBOWS BELOW GRADE SHALL BE 4" SCH 80 PVC, BELOW GRADE 4" SCH 40 PVC CONDUITS.

E5 CONTRACTOR SHALL PROVIDE AND INSTALL 320 AMP, 120/240-VOLT, 1 PHASE METER BASE AND METER ON THE BUILDING IN ACCORDANCE WITH ACE UTILITY COMPANY REQUIREMENTS. PROVIDE 2 HORIZONTAL 5/8" GALVANIZED CHANNELS ANCHORED INTO WALL STUDS TO MOUNT METER BASE TO WALL.

E6 PROVIDE 3-#500 MCM IN 4" SCH 80 PVC FROM METER BASE TO MANUAL TRANSFER SWITCH, IN N.A.NEMA 3R ENCLOSURE, MOUNTED ON 3 HORIZONTAL 5/8" GALVANIZED CHANNELS ANCHORED INTO WALL STUDS ON EXTERIOR WALL PROVIDED FOR METER BASE.

E7 4" RMC WITH 4-#500 MCM & 1-#3 GROUND TO NEW PANEL 'A'.

E8 PANEL 'A' WITH 400 AMP, 2 POLE MAIN SERVICE RATED 22K CIRCUIT BREAKER, GROUND BAR, AND NEUTRAL BAR. BOND NEUTRAL AND GROUND IN PANEL.

E9 #/0 COPPER GROUND ELECTRODE CONDUCTOR TO TWO (2) 8'-0" LONG COPPER CLAD GROUND RODS WITH BOND CLAMPS.

E10 #4 THWN COPPER GROUND ELECTRODE CONDUCTOR BONDED TO REBAR IN NEW FOOTER, RUN DOWN TO 2 FEET BELOW GRADE IN 1" SCH. 80 PVC CONDUIT, CONNECT TO REBAR WITH BRONZE BOND CLAMPS.

E11 PROVIDE 2-#12 W/#12 GD IN 3/4" C. FROM ATC R1 TO EF-1 AND FROM ATC R2 TO EF-2.

E12 PROVIDE #/0 COPPER BONDING JUMPER FROM COLD TO HOT PIPES AT EWH-1 AND BOND TO COPPER PIPES WITH BRONZE UL CLAMPS.

E13 DUPLEX RECEPTACLES IN CRAWL SPACE FOR HEAT TAPE.

E14 MOUNT POWER PACK FOR OCCUPANCY SENSORS IN TELE/DATA ROOM AND RUN 18/2 LOW VOLTAGE CABLE TO CEILING OCCUPANCY SENSORS.

E15 MOUNT TWO ATC CONTROL RELAYS FOR EF-1 & EF-2 IN THE MECHANICAL RM. CONNECT TO EACH IN PARALLEL WITH OCCUPANCY LIGHTING SWITCHES IN EACH TOILET ROOM TO CONTROL EF-1 AND EF-2. SEE WIRING DETAIL ON DRAWING E2.

E16 PROVIDE #/0 COPPER TO BOND WITH BRONZE CLAMP TO COPPER WATER PIPE.

E17 PROVIDE A COPPER GROUND BUSS BAR ON THE PLYWOOD TELE/DATA BACKBOARD AND CONNECT TO GROUND BAR IN PANEL 'A' WITH #/0 COPPER GROUND WIRE.

E18 PROVIDE A 4'X4'X3/4" THICK FIRE RETARDANT PLYWOOD BACKBOARD, PAINTED WITH 2-COATS OF FIRE RETARDANT GRAY PAINT, IN TELE/DATA ROOM.

E19 NEW 4" SCH. 80 PVC W/3-500 MCM & 1-#/0 GROUND.

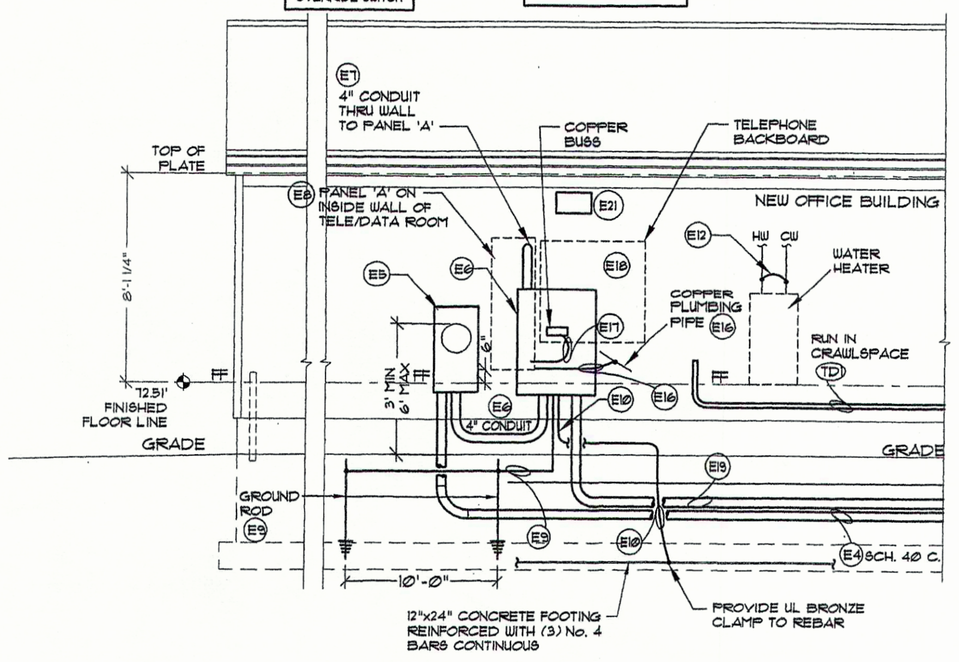
E20 PROVIDE 400 AMP GENERATOR REMOTE DOCKING STATION.

E21 ADD SIGN AT DOCKING STATION AND TRANSFER SWITCH:

E22 ADD SIGN ABOVE ST2 :

CONTROLLED RECEPTACLES OVERRIDE SWITCH

WARNING
FOR CONNECTION OF NON SEPARATELY DERIVED (FLOATING NEUTRAL) SYSTEM ONLY



ELECTRICAL RISER DIAGRAM
NO SCALE

LIGHTING FIXTURE SCHEDULE

SYM	MANUFACTURER	CATALOG NO.	LAMPS	MTD.	REMARKS
A	LITHONIA	STL4-60L-LP840	53.2 W LED	CEILING SURFACE	881 LUMENS, LED 4000K, NOTE #8
B	LITHONIA	STL4-48L-LP840	45.2W LED	CEILING SURFACE	3088 LUMENS, LED 4000K, NOTE #8
C	LITHONIA	DMW2-L24-2000LM-ACL-MD-120 35K-80CRI-GMB-MBWCNUL	18 W LED	CEILING SURFACE	2000 LUMENS, LED 3500K, W/INDIVIDUAL FIXTURE PIR OCCUPANCY SENSOR, NOTES #1 & 8
D	LITHONIA	FMVT8L-24IN-MVOLT-35K-EN	18 W LED	WALL SURFACE	1308 LUMENS, LED 3500K MOUNTED ON WALL ABOVE MIRROR, NOTE #8
E	DUAL-LITE	EVE-U-R-W-E-I	LED 'EXIT' SIGN	CEILING SURFACE	CEILING MOUNTED 'EXIT' SIGN ABOVE DOOR WITH BATTERY BACKUP, NOTE #2
F	DUAL-LITE	CPRDWG6G3L	2- 3W 6 V LED LAMPS	WALL SURFACE	INDOOR REMOTE EMERGENCY HEADS NOTE #3
FI	DUAL-LITE	OCRDWG6G3L	2- 3W 6 V LED LAMPS	WALL SURFACE	OUTDOOR UL WET LOCATION LISTED REMOTE EMERGENCY HEADS NOTES #3 & 6
G	HUBBELL	NRG-312LU-5K-BZ-PC-120	18 W LED	WALL SURFACE	5000°K LED, BOTTOM MOUNTED 7'-0" ABOVE BUILDING FINISHED FLOOR, NOTES #4 & 8
H	HUBBELL	VWGL-1	11 LED/ 757 LUMENS	WALL SURFACE	LED 4100 DEG, FIXTURE MOUNTED ON TRUSS ABOVE CEILING AT TOP OF FULL DOUN STAIRS
K	SIMKAR	LCH-4-FA-25-35-UI	20W LED	CEILING SURFACE	2430 LUMENS, LED 3500 DEG, NOTE #3
L	HUBBELL	PVL3-30LU-5K-BZ-PBT-1	69 W LED	WALL SURFACE	5000°K LED, W/PHOTO CONTROL, TOP MOUNTED 9'-6" ABOVE FINISHED GRADE, NOTES #6, 7 & 8
M	HUBBELL	LNC2-12L-4K-03B-1-DB-PCU	14 W LED	WALL SURFACE	4000°K LED, W/PHOTO CONTROL, TOP MOUNTED 9'-6" ABOVE FINISHED GRADE, NOTES #3, 6, 7 & 8

NOTES:
1. LIGHTING FIXTURE - WET LOCATION WITH 360° OCCUPANCY SENSOR.
2. 'EXIT' SIGN BY DUAL-LITE, EMERGI-LITE, LITHONIA OR APPROVED EQUAL.
3. REMOTE EMERGENCY HEADS WITH MOUNTS, SAME MANUFACTURER AS 'EBU' UNIT.
4. MEDIUM BRONZE FINISH, RATED WET LOCATION AND WITH INTERNAL PHOTOCELL.
5. 12 LED'S, 14 WATTS, TYPE 3 DISTRIBUTION, 1426 LUMENS.
6. FIXTURE TO BE UL LISTED FOR WET LOCATION.
7. PROVIDE PVL3W - FULL CUT-OFF VISOR.
8. LIGHTING FIXTURE MANUFACTURERS: LITHONIA, HUBBELL, COLUMBIA, OR APPROVED EQUAL.
9. LIGHTING FIXTURES BY SIMKAR, HUBBELL, LITHONIA, OR APPROVED EQUAL.

EMERGENCY LIGHT BATTERY UNIT NO. 1 (EBU-1):
DUAL-LITE MODEL LM33-I-@3L
RATED AT 33 WATTS FOR 1 1/2 HOURS AT 6 VOLTS DC
LEAD CALCIUM BATTERY
UNIT EQUIPPED WITH 2-6 VOLT-3 WATT LED HEADS AND SELF-TEST
UNIT MOUNTED 80 TOP OF HEADS ARE 4" BELOW CEILING
EMERGENCY BATTERY UNITS BY DUAL-LITE, EMERGI-LITE, HUBBELL, LITHONIA OR APPROVED EQUAL.

EMERGENCY & EXIT SIGN WIRING NOTES:
EMERGENCY LIGHTING CIRCUITS - 2-#2 W/#2 GD IN RMC OR EMC AND WEATHER PROOF OUTLET BOXES.
POWER CIRCUITS TO EBU'S AND EXIT SIGNS SHALL BE ON CIRCUITS PRIOR TO SWITCHES.

ELECTRICAL EQUIPMENT

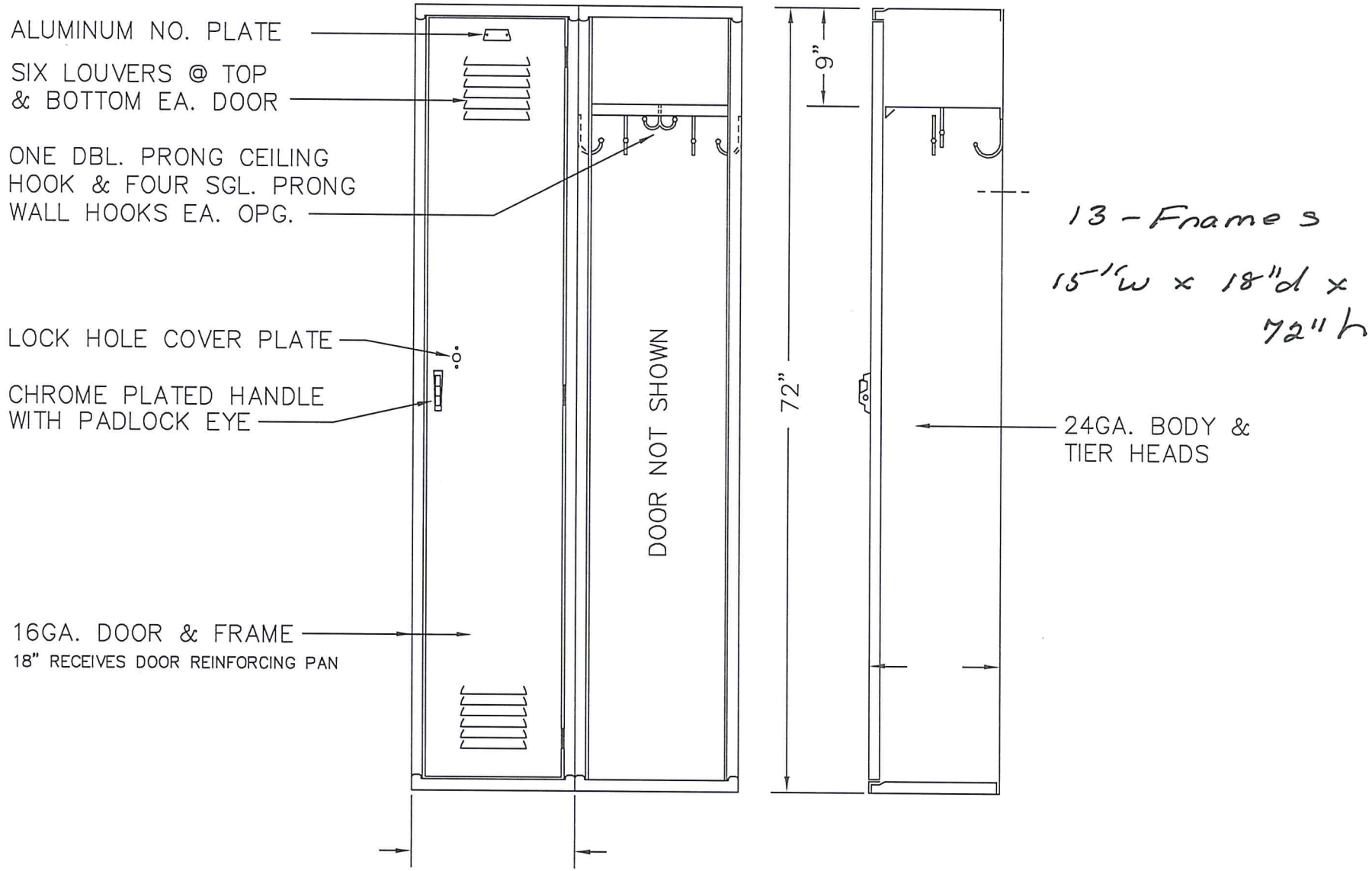
TIME CLOCK (TC-1)
'INTERMATIC' MODEL ET80815-B CIRCUIT TIME CLOCK IN NEMA 1 ENCLOSURE AND SURFACE BACKBOX.
UL LISTED AND UL CATEGORY 916 ENERGY MANAGEMENT EQUIPMENT.
WITH CONTACT INPUT TO PROVIDE BYPASS FROM OVERRIDE TIMER SWITCH ST2.

OVERRIDE TIMER SWITCH "ST2" FOR USE WITH TC-1
0-2 HOUR TIMER SWITCH - INTERMATIC FD32H
USED TO TURN ON CONTROLLED OUTLETS FOR UP TO 2-HOURS.

ATC CONTROL RELAY FOR EF-1 & 2:
RIB FUNCTIONAL DEVICES MODEL RIBUIC ENCLOSED RELAY
24-VOLT CONTROL AND 120-VOLT,10 AMP CONTACT.
MANUFACTURERS: RIB, HONEYWELL, OMRON, IDEC OR APPROVED EQUAL.

CARBON MONOXIDE DETECTOR: CO
PROVIDE CARBON MONOXIDE DETECTORS AND INSTALL PLUG INTO DUPLEX RECEPTACLE XXXX Hard Wired
CARBON MONOXIDE DETECTORS SHALL GO INTO ALARM IN EVENT OF HIGH CO PRESENT IN SPACE.
DETECTORS SHALL BE 120 VOLT WITH BATTERY BACKUP.
MANUFACTURERS:
BRK MODEL #SC9127, KIDDE MODEL #126782,
~~XXXX

EXHIBIT 'E'



ELEVATION SECTION @ WALL

72" HIGH SINGLE TIER VANGUARD KNOCKDOWN LOCKER

TYPICAL FOR 15" & 18" WIDE, ALLOW 1/16" CREEPAGE PER FRAME

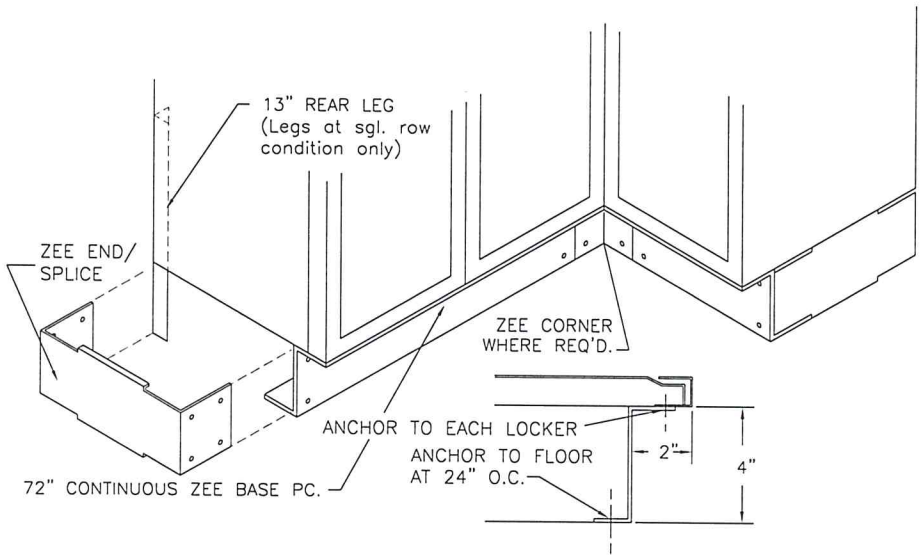
TYPICAL FOR 12" & 15" DEEP

This drawing shows a standard Penco Product. Any modifications to the product must be approved by Penco Engineering. 8/6/2001

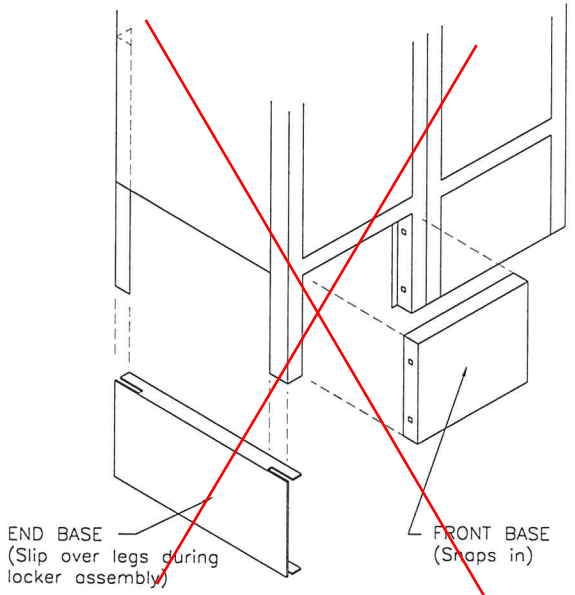
PENCO

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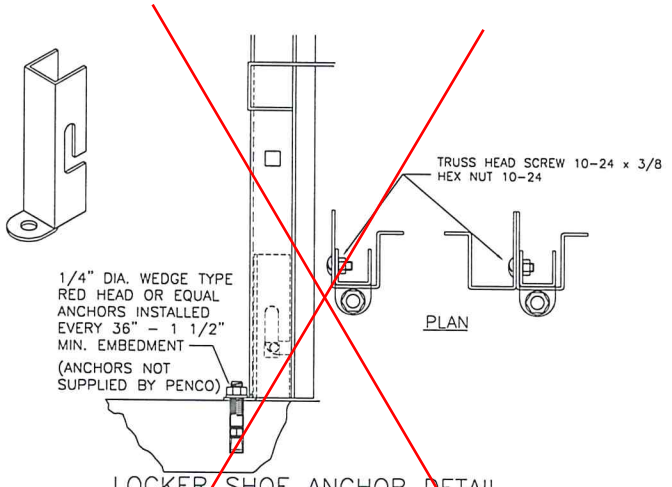
EXHIBIT 'E'



ZEE BASE DETAIL



6" LEGS W/ BASE



LOCKER SHOE ANCHOR DETAIL
(LOCKER SHOE ANCHOR OPTIONAL)
ANCHOR LOCKERS @ 36" O.C.

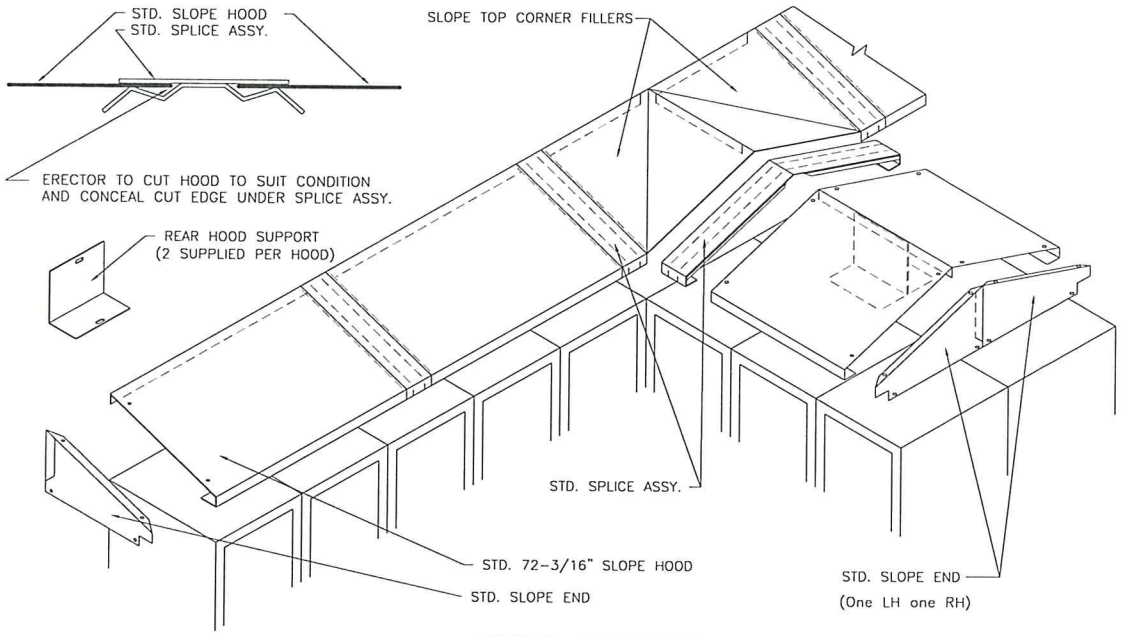
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LOCKER BASE DETAILS

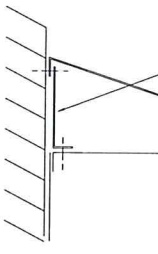
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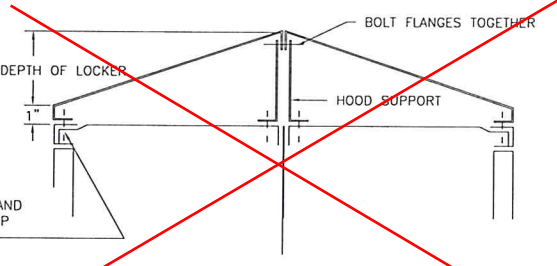
EXHIBIT 'E'



TYPICAL INSTALLATION



DETAIL OF SINGLE ROW SLOPE HOOD AT WALL



DETAIL OF DOUBLE ROW SLOPE HOOD

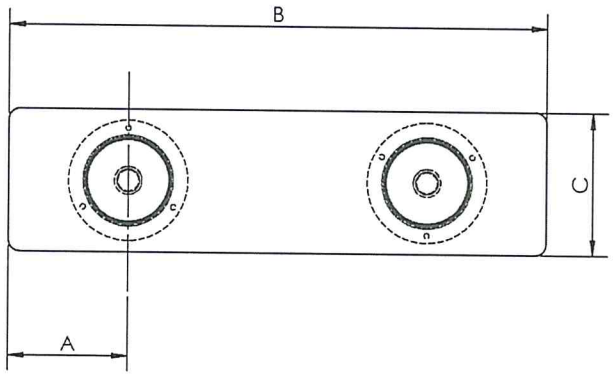
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SLOPE HOOD INSTALLATION DETAILS

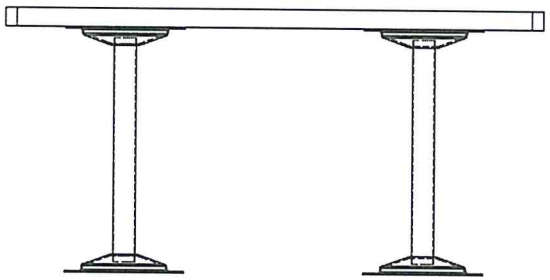
PENCO

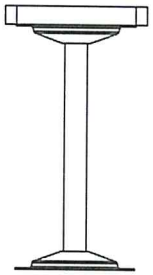
HOODS.dwg

EXHIBIT 'E'









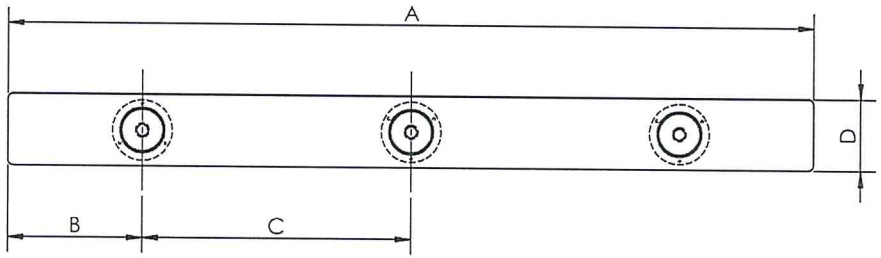
BENCH	A	B	C
3 FT	8"	36"	9.5"
4 FT	8"	48"	9.5"
5 FT	8"	60"	9.5"
6 FT	1'	72"	9.5"
7 FT	1'	84"	9.5"
8 FT	1' - 6"	96"	9.5"

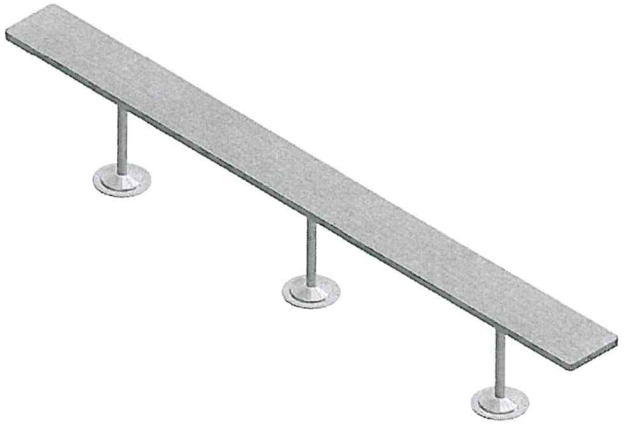
Title:
Locker Accessories
9 1/2"x 36" Wood Bench w/ (2) Heavy Duty Pedestals

Part No:	Scale:	Date:	Weight:
9611	NTS	5/10/17	23 lb.

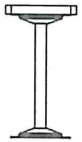
PENCO
www.pencoproducts.com
800-562-1000

EXHIBIT 'E'









2 - Benches
36" x 9.5"

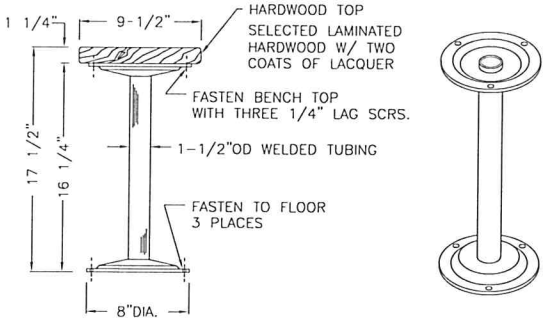
BENCH	A	B	C	D
9 FT	108"	1' - 6"	3'	9.5"
10 FT	120"	1' - 6"	3' - 6"	9.5"
11 FT	132"	1' - 6"	4'	9.5"
12 FT	144"	1' - 6"	4' - 6"	9.5"

Title:
Locker Accessories
9 1/2"x 108" Wood Bench w/ (3) Heavy Duty Pedestals

Part No:	Scale:	Date:	Weight:
9605	NTS	5/11/17	52 lb.

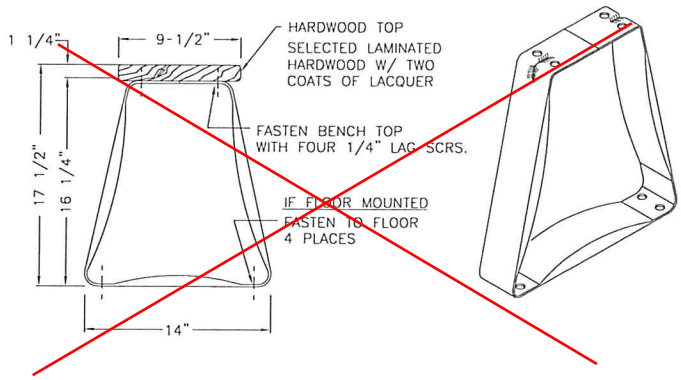
PENCO
www.pencoproducts.com
800-562-1000

EXHIBIT 'E'



BENCH & HEAVY DUTY PEDESTAL DETAIL

BAKED ENAMEL TO MATCH LOCKER



BENCH & STAINLESS STEEL PEDESTAL DETAIL

PEDESTALS ARE UNPAINTED STAINLESS STEEL

BENCH & PEDESTAL DETAILS

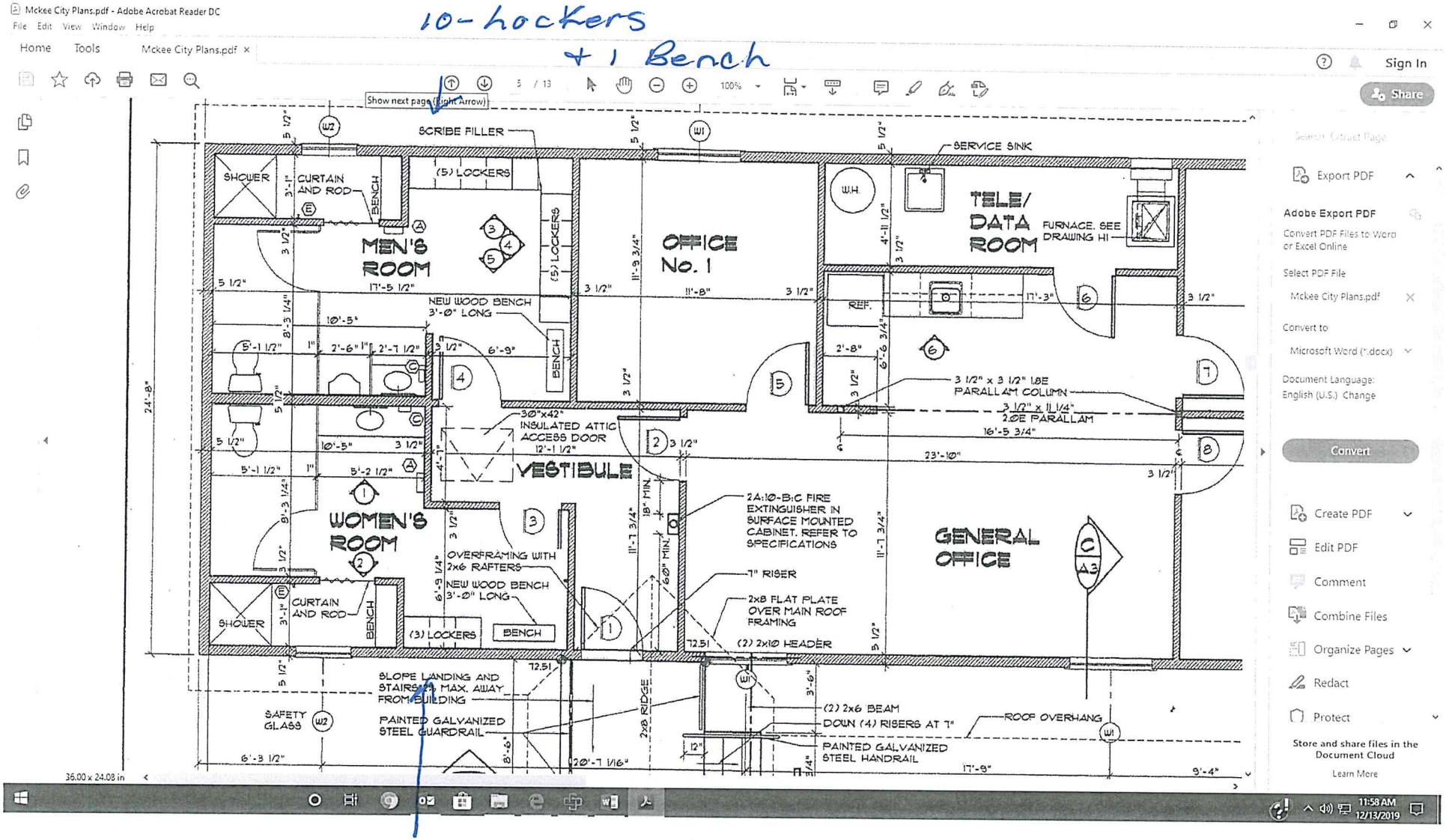
This drawing shows a standard Penco Product. Any modifications to the product must be approved by Penco Engineering. 8/6/2001

PENCO

pedestals.dwg

layouts

EXHIBIT 'E'



Locker + Bench Elevation

EXHIBIT 'E'

Mckee City Plans.pdf - Adobe Acrobat Reader DC

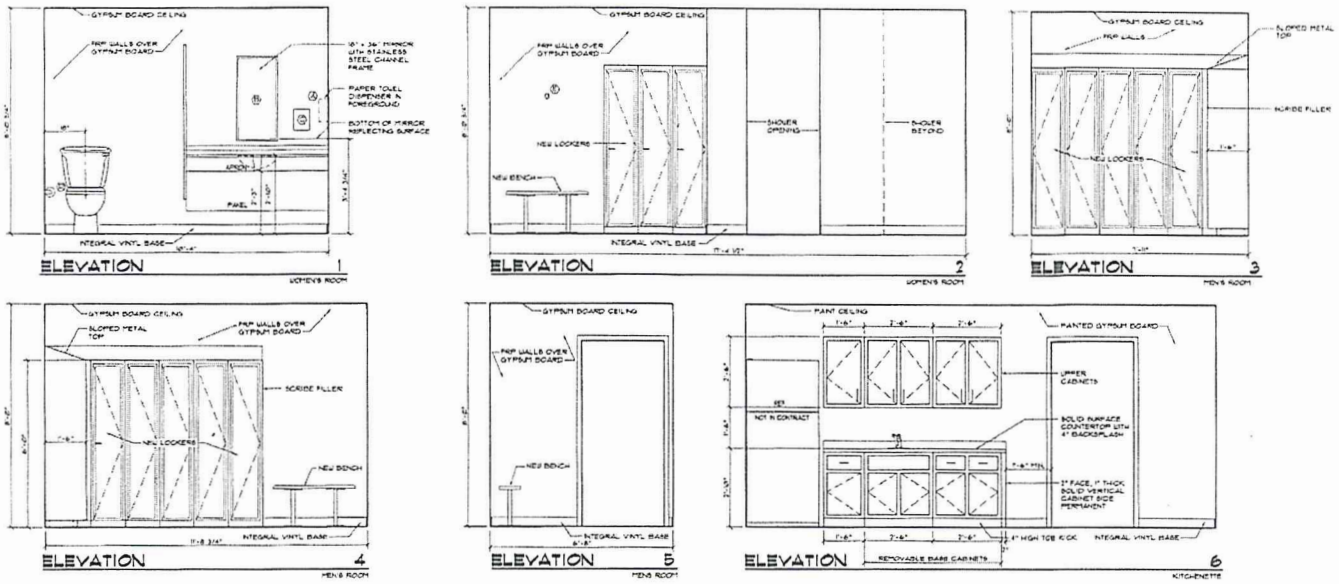
File Edit View Window Help

Home Tools Mckee City Plans.pdf ×

8 / 13 50%

Sign In

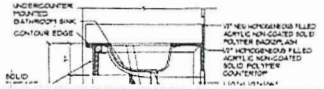
Share



INTERIOR ELEVATIONS

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

TOILET ROOM ACCESSORY SCHEDULE			
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER
①	PAPER TOWEL DISPENSER	BOBRICK	B-262
②	MIRROR, 18" x 36"	BOBRICK	B-165 2436
③	SOAP DISPENSER, SURFACE MTD.	BOBRICK	B-262



NEW OFFICE BUILDING
DOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

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Microsoft Word (*.docx)

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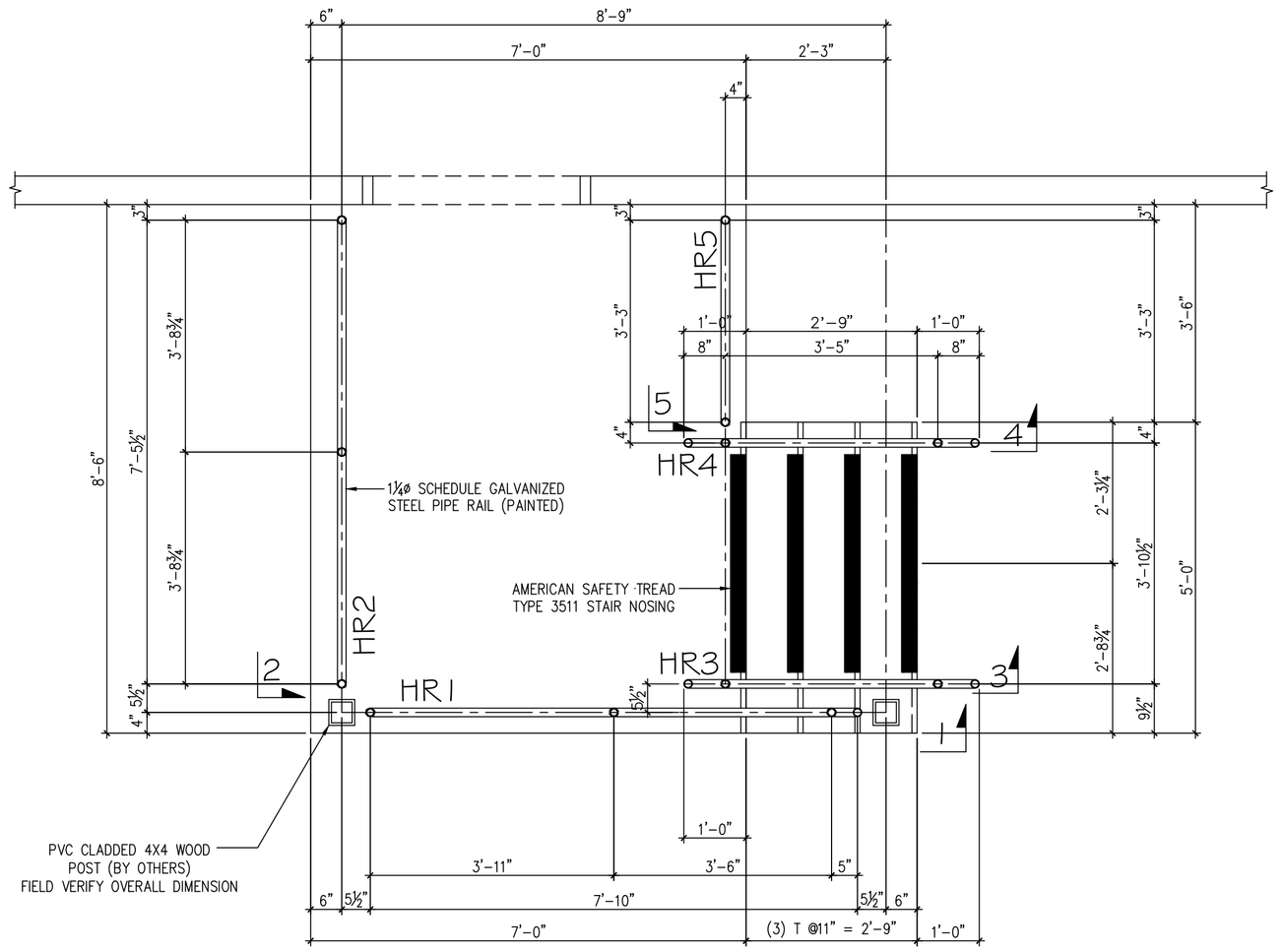
36.00 x 24.56 in

Type here to search

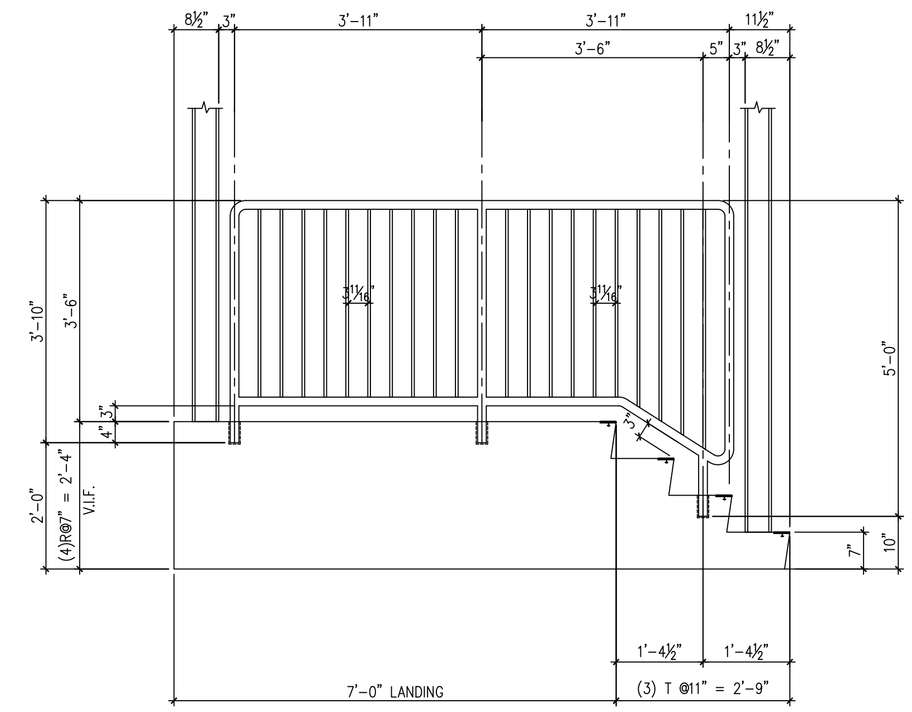
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EXHIBIT 'E'

AS BUILTS
W. J. GROSS, INC.
10/30/20

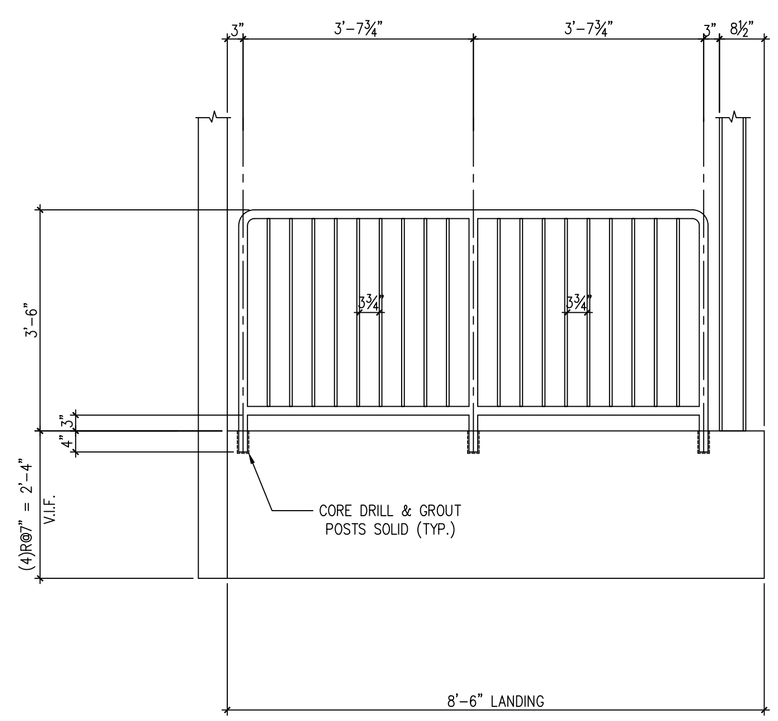


ENLARGED PARTIAL PLAN @ STAIR



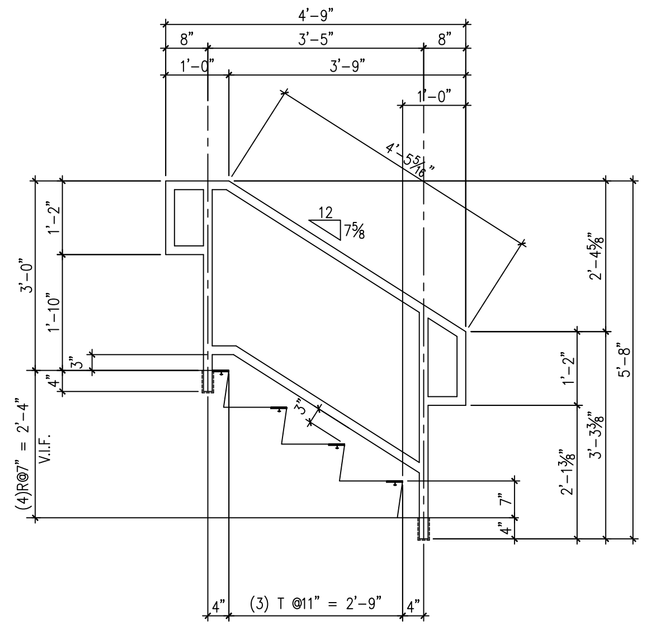
ONE - GUARDRAIL ~ HR1

SECTION # 1



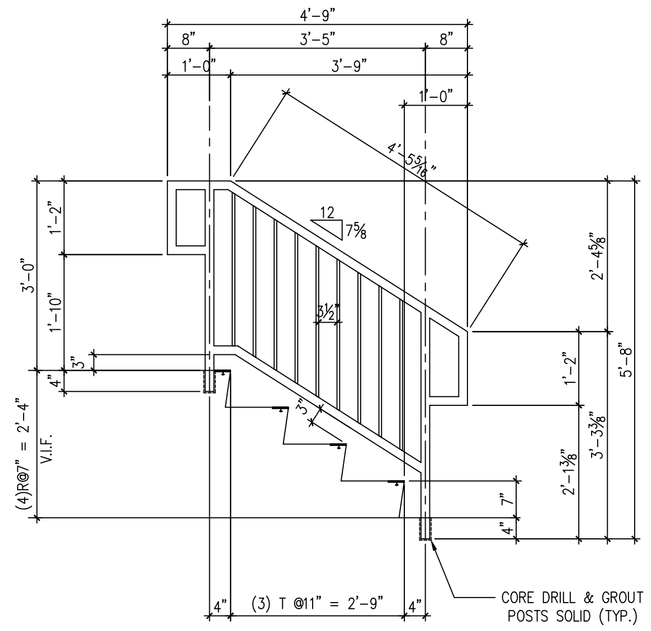
ONE - GUARDRAIL ~ HR2

SECTION # 2



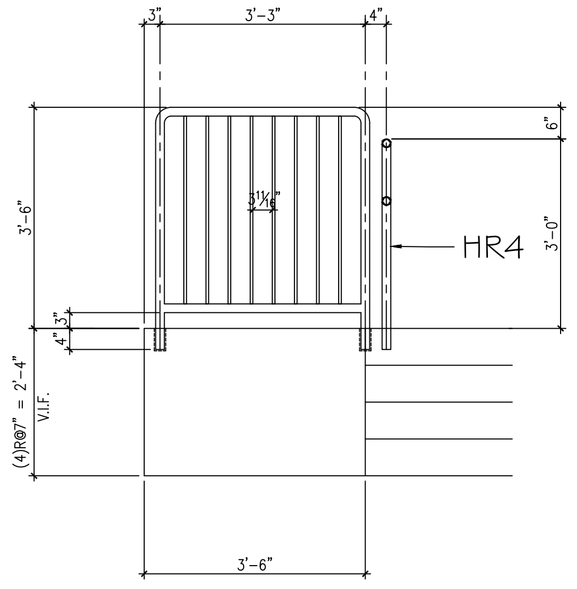
ONE - GUARDRAIL ~ HR3

SECTION # 3



ONE - GUARDRAIL ~ HR4

SECTION # 4



ONE - GUARDRAIL ~ HR5

SECTION # 5

RAILING CONSTRUCTION

Schedule 80

POSTS & RAILS: 1¼ø SCHEDULE 40 STEEL PIPE 1.66" O.D.
PICKETS: 1/2ø SOLID ROUND BAR

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MATERIAL ASTM A992			
MATERIAL			
TC BOLTS ASTM 3/4ø A325-N	5		
HOLES 13/16 ø UNO	4		
SHOP WELDS E70XX FIELD WELDS E70XX LH	3		
SURFACE PREP. SSPC – SP2	2		
FINISH ONE COAT SHOP PRIMER	1		
NOTES	NO	DATE	REVISIONS

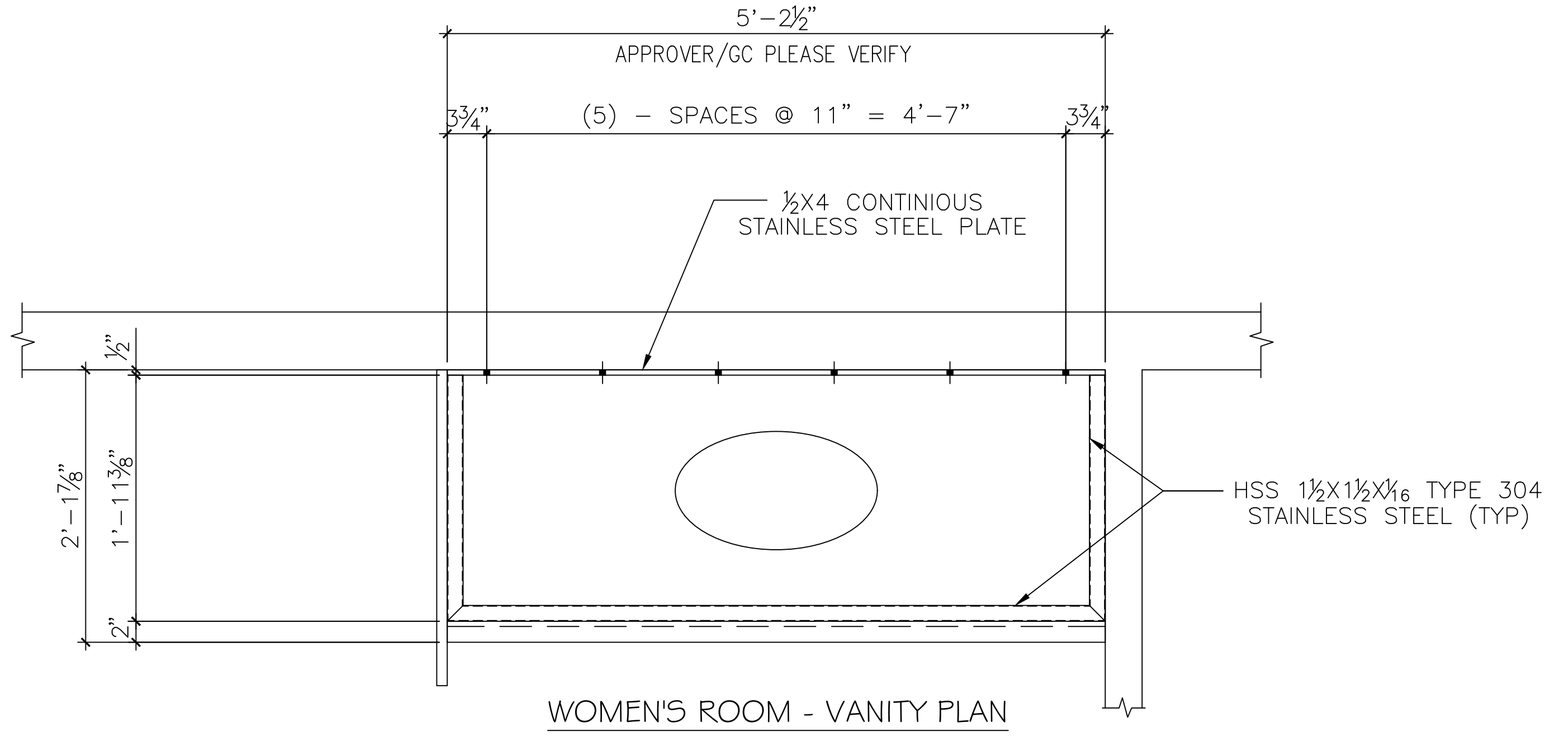
WELD-DONE WELDING CO., INC
20 WOODLAND AVENUE
HURFFVILLE, NJ 08080
PHONE: (856) 582-7080
FAX: (856) 582-2002

ARCHITECT: David A. Clark	CONTRACTOR: W. J. Gross	
DRAFTER JBG DATE: 11.07.19	NEW OFFICE BUILDING NJDOT MCKEE CITY MAINTENANCE YARD	PROJECT NO. 19064
CHECKED TD DATE: 11.07.19	RAILING FRAMING PLAN & DETAILS	DRAWING NO. M1

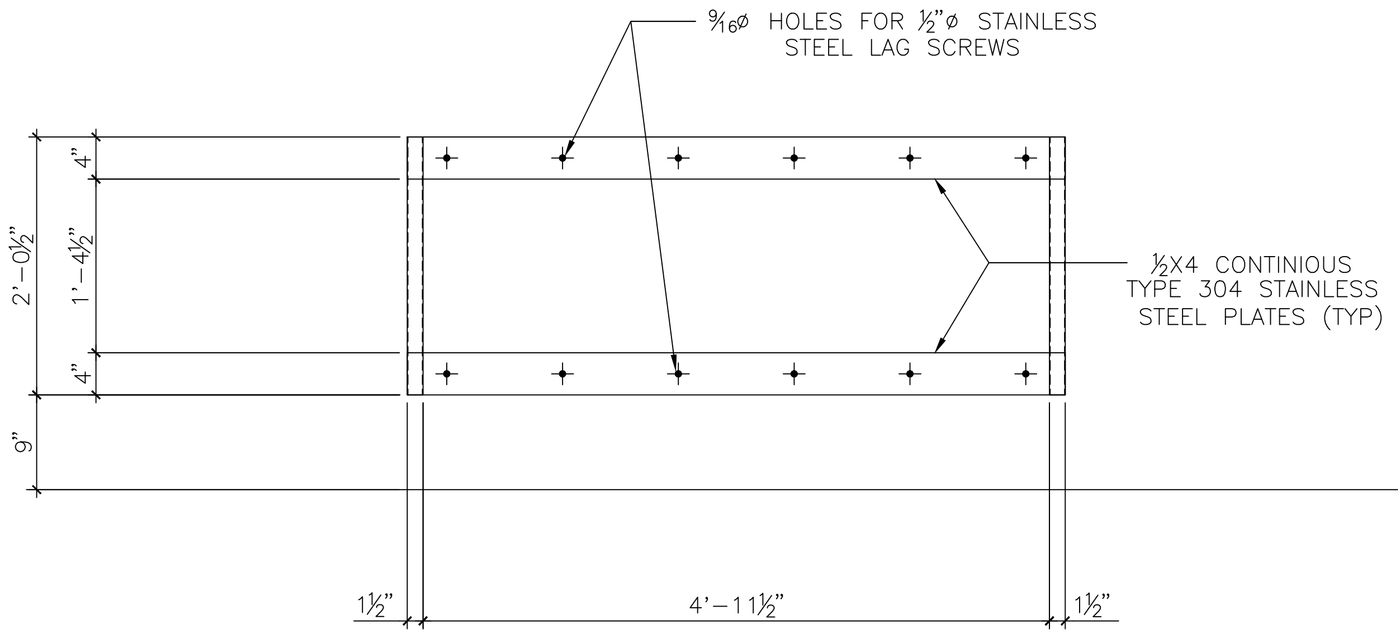
Submit separately with Countertops, Sinks, Backsplash Shop Drawings.

AS BUILTS
W. J. GROSS, INC.
10/30/20

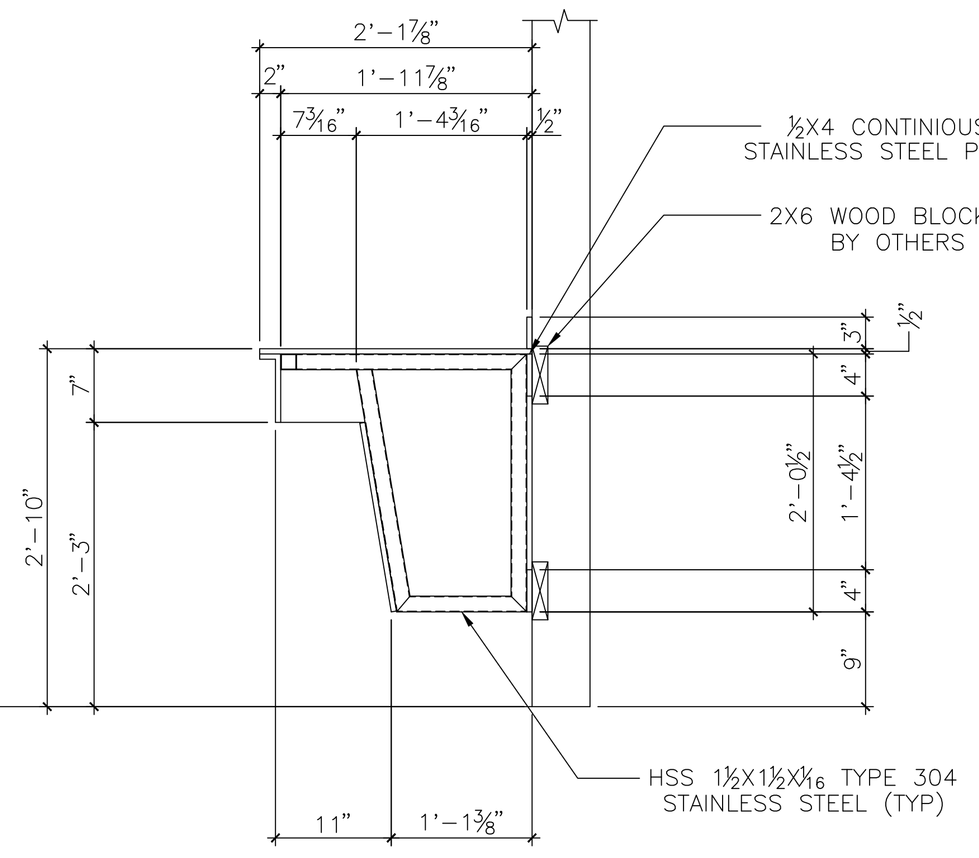
EXHIBIT 'E'



WOMEN'S ROOM - VANITY PLAN



VANITY FRAME - FRONT ELEVATION



VANITY FRAME - SIDE ELEVATION

ONE - STAINLESS STEEL FRAME - MARK ~ VF1

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MATERIAL	ASTM A992			
MATERIAL				
TC BOLTS	ASTM 3/4ø A325-N	5		
HOLES	13/16 ø UNO	4		
SHOP WELDS E70XX	FIELD WELDS E70XX LH	3		
SURFACE PREP.	SSPC - SP2	2		
FINISH	ONE COAT SHOP PRIMER	1		
NOTES		NO	DATE	REVISIONS

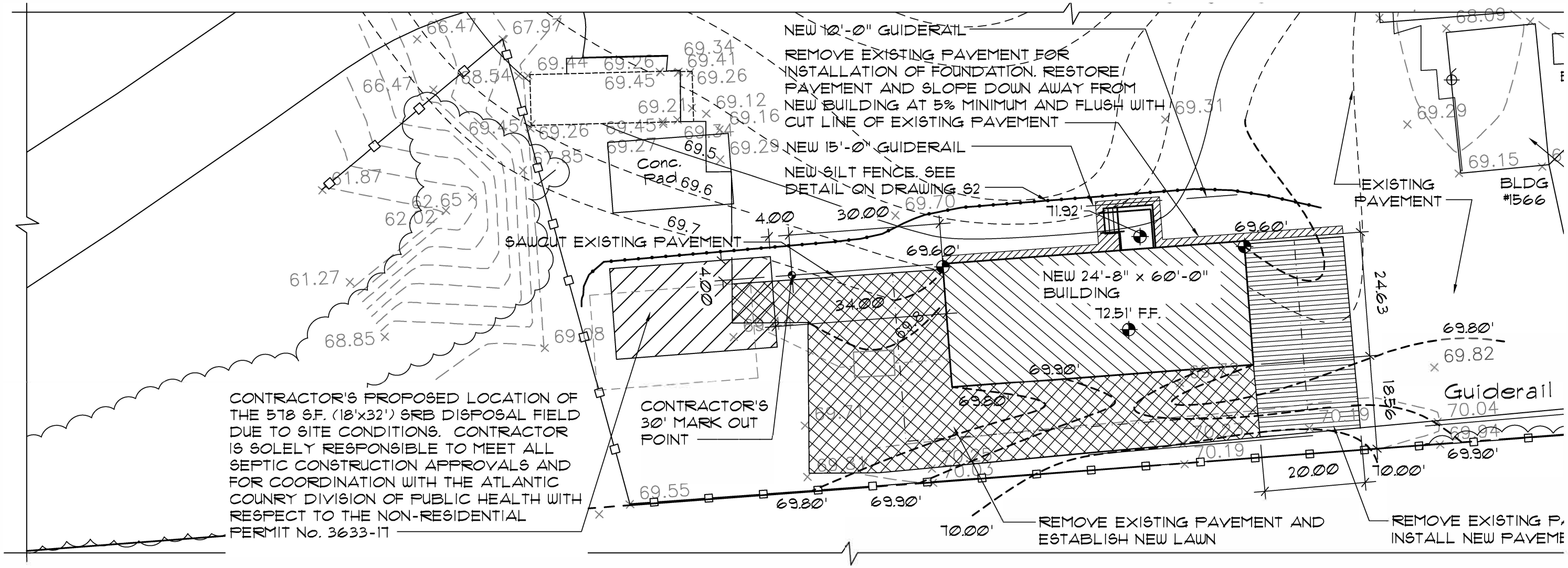
WELD-DONE WELDING CO., INC
20 WOODLAND AVENUE
HURFFVILLE, NJ 08080
PHONE: (856) 582-7080
FAX: (856) 582-2002

ARCHITECT: David A. Clark	CONTRACTOR: W. J. Gross	
DRAFTER JBG DATE: 11.07.19	NEW OFFICE BUILDING NJDOT MCKEE CITY MAINTENANCE YARD	PROJECT NO. 19064
CHECKED TD DATE: 11.07.19	VANITY FRAMING PLAN & DETAILS	DRAWING NO. M2

SITE PLAN REVISION OF SEPTIC LOCATION

AS BUILTS
W. J. GROSS, INC.
10/30/20

EXHIBIT 'E'



ENLARGED SITE PLAN

SCALE: 1" = 20'

SCANNED
Rec'd 4/12/19
#0194-18
DOT
1801-08

ATLANTIC COUNTY DIVISION OF PUBLICHEALTH

201 South Shore Road
Northfield, New Jersey 08225-2370
Telephone (609) 645-5971

NON-RESIDENTIAL PERMIT

DATE 4/10/19

Permission is hereby granted t

- X Original
- ____ Revision
- ____ Permit Extension
- ____ Alteration
- ____ TWA Permit Y / N

Restaurant and/or Bar Y / (N)
Office Y / (N)
Church Y / (N)
Day Care Y / (N)
Class Rooms Y / (N)
Cafeteria Y / (N)
Other DOT office Trailer
Designed for 350 GPD
Electrical Permit Required Y / (N)

PERMIT NUMBER 3633-17

Name Ronald A Sebring
405 Richmond Avenue
Street Address
Point Pleasant Beach, NJ 08742
City, State, Zip

To construct an on-site: Chamber System _____ Stone System X Pressure dosing _____ Gravity-dosing _____
Mounded System _____ Subsurface sewage disposal system prepared by Sandford Mersky, P.E. dated 8/31/17, and in accordance with the provisions of N.J.S.A. 58:11-23 and N.J.A.C. 7.9A et. seq.at:

MUNICIPALITY Egg Harbor Twp. BLOCK 1501 LOT 8

APPROVED BY/DIVISION REPRESENTATIVE Jay Flemming SR. REHS
(SIGNATURE) (TITLE)

EXHIBIT J-1

NOTICE

This permit expires one year from the date of issuance. Applicants are advised to contact our office for renewal procedures. The original is for your records. Other copies are provided for distribution to the building official and contractor. Notice (by copy and attachments) is hereby served upon the Pinelands Commission, Permit # _____.

SEPTIC CONSTRUCTION APPROVAL

It is the responsibility of the contracted installer to follow all "APPROVED" design specification. Changes encountered/proposed in the Soil, water tables, location or construction requires the stop of construction with the change brought to the immediate attention of the design engineer and this office. Deviations may render this permit null and void subject to this Departments determination. A representative of this agency must inspect the system prior to final cover. Call this office either the afternoon prior to or between 8:00 AM-9:30 AM on the day of inspection. Additional construction items and the corresponding inspections are checked below.

- X Excavation of KO / K5 Soils
- ____ 2 foot perimeter removal
- ____ Placement of perimeter fill
- X Fill permeability and compaction
- X The bottom of the disposal bed to be 2'7" (below) / above existing grade
- ____ Backhoe Test Pit Required. Depth ____
- X Other Existing ISDS to be properly abandoned, Existing office & pavement to be Removed.
- X Proper location of the disposal field
- ____ Pump operation and alarm installation
- ____ Dosing chamber elevations
- X Certificate of ~~Compliance~~ Tank Tightness

WATER SUPPLY APPROVAL

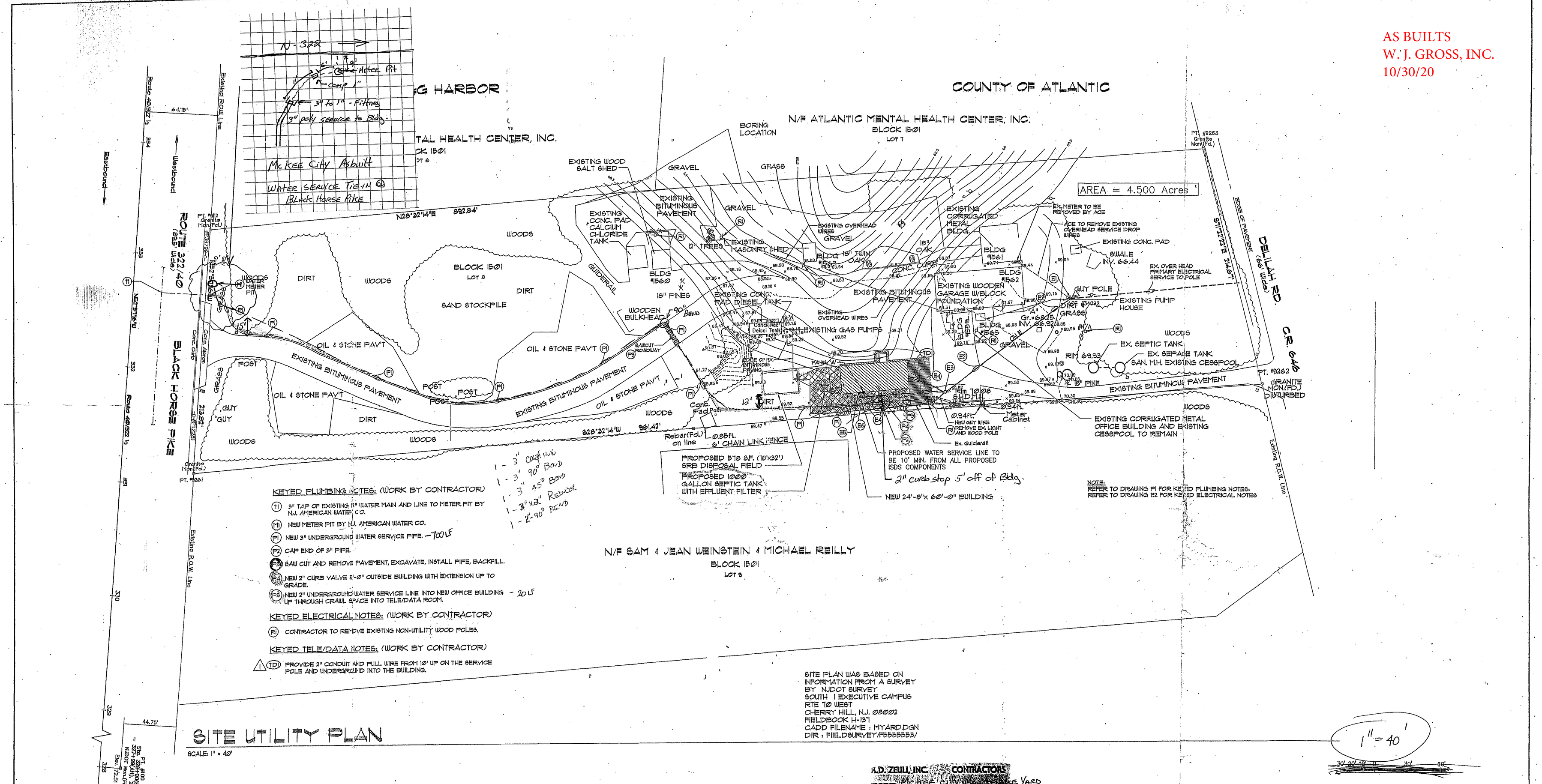
It is the responsibility of the applicant, in conjunction with a NJ licensed well driller, to obtain a STATE Well Permit prior to installation and to complete a NJDEP Well Record and submit a copy to this office. Final water approval and the issuance of a Certificate of Compliance is contingent upon all above items and the appropriate items checked below.

- X Public Water System
- ____ 24 Hours advance notice for County inspection of well drilling
- ____ Collection and analysis of a water sample by a private certified laboratory to satisfy Safe Drinking Water Act Rules
- ____ Bacterial and chemical results submitted to this office for review/approval
- ____ Performance of an EPA method 504.1 water test for Pesticides
- ____ Not using the existing well on property - Abandonment or Change of Use Permit required
- ____ Using the existing well on property
- ____ Other _____

White – Applicant's Copy *Canary* – Building Offical's Copy *Zerox* – File Copy *Pink* – Installer's Copy *Goldenrod* – Engineer's Copy rev. 2011 (41)

AS BUILTS
W. J. GROSS, INC.
10/30/20

EXHIBIT 'E'



KEYED PLUMBING NOTES: (WORK BY CONTRACTOR)

(T1) 3" TAP OF EXISTING 12" WATER MAIN AND LINE TO METER PIT BY N.J. AMERICAN WATER CO.

(M1) NEW METER PIT BY N.J. AMERICAN WATER CO.

(P1) NEW 3" UNDERGROUND WATER SERVICE PIPE. – 700 LF

(P2) CAP END OF 3" PIPE.

(S3) SAW CUT AND REMOVE PAVEMENT, EXCAVATE, INSTALL PIPE, BACKFILL.

(V4) NEW 2" CURB VALVE 5'-0" OUTSIDE BUILDING WITH EXTENSION UP TO GRADE.

(P5) NEW 2" UNDERGROUND WATER SERVICE LINE INTO NEW OFFICE BUILDING UP THROUGH CRAWL SPACE INTO TELE/DATA ROOM. – 20 LF

KEYED ELECTRICAL NOTES: (WORK BY CONTRACTOR)

(R) CONTRACTOR TO REMOVE EXISTING NON-UTILITY WOOD POLES.

KEYED TELE/DATA NOTES: (WORK BY CONTRACTOR)

(TD) PROVIDE 2" CONDUIT AND PULL WIRE FROM 10' UP ON THE SERVICE POLE AND UNDERGROUND INTO THE BUILDING.

NOTE:
REFER TO DRAWING P1 FOR KEYED PLUMBING NOTES;
REFER TO DRAWING E2 FOR KEYED ELECTRICAL NOTES

SITE PLAN WAS BASED ON INFORMATION FROM A SURVEY BY NJDOT SURVEY SOUTH 1 EXECUTIVE CAMPUS RTE 70 WEST CHERRY HILL, NJ. 08002 FIELDBOOK H-137 CADD FILENAME : MYARD.DGN DIR : FIELDSURVEY/FBSSSSSS/

SITE UTILITY PLAN

SCALE: 1" = 40'

1" = 40'
30' 20' 10' 0 30' 60'

K.D. ZEULI, INC. CONTRACTORS
PROJECT: MCKEE CITY MAINTENANCE YARD
TRADE:
Sample Submitted
Shop Drawings
Submittal is for compliance with original design concept
Contractor has verified field measurements/conditions
Contractor shall verify field measurements/conditions
APPROVED BY: DATE: 2020

6016 BLACK HORSE PIKE
NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

SITE UTILITY PLAN

SUBMISSION	BY	DATE
FINAL	LC	07/26/18
FINAL 2	LC	08/13/18
FINAL 3	LC	01/28/19
FINAL 4	DC	07/10/19
PERMIT/BID	DC	01/11/19

RONALD A. SERING ASSOCIATES, LLC
ARCHITECTURE – PLANNING – DESIGN
405 RICHMOND AVE.
POINT PLEASANT BEACH, NEW JERSEY

EASTERN CONSULTANTS
CONSULTING ENGINEERS
2211 LEHIGH ST. P.O. BOX 4539
EASTON, PENNSYLVANIA 18043

David J. Parsons, P.E.
DAVID J. PARSONS, N.J.P.E. NO 24014

SU1

AS BUILTS
W. J. GROSS, INC.
10/30/20

ARCHITECTURAL MILLWORK DRAWINGS FOR

MCKEE CITY DOT OFFICE

PROJECT ADDRESS:
DOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY,
NJ

EXHIBIT 'E'

MATERIAL LIST

SS-1	MEGANITE WHEAT MIST 266AR
WD-1	MAPLE VENEER PLYWOOD (CLEAR FINISH)
WD-2	SOLID MAPLE DOORS & FACE FRAMES

HARDWARE LIST

H-1	BLUM COMPACT BLUMOTION 38N HINGE 38N358BE08
H-2	HAFELE BRUSHED CHROME 4" WIRE PULL 116.07.438
H-3	ACCURIDE 3832 FULL EXT. DRAWER GLIDES, 100LB.
H-4	RAKKS EH1818-LV COUNTER SUPPORT BRACKET

THE DETAILS, DESIGN AND PLANS ON THIS DRAWING ARE THE PROPERTY OF COLLINGSWOOD ARCHITECTURAL MILLWORK FOR THE SPECIFIC PROJECTS INDICATED AND MAY NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE EXPRESS WRITTEN PERMISSION FROM COLLINGSWOOD ARCHITECTURAL MILLWORK.
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REVISIONS:

DATE:	BY:	REVISION:
11/05/19	MV	INITIAL SET
4/27/20	MV	REV 1
5/6/20	MV	REV 2

715 TAYLOR AVENUE
COLLINGSWOOD, NJ 08107
PHONE: (856) 854-4460
FAX: (856) 854-2897

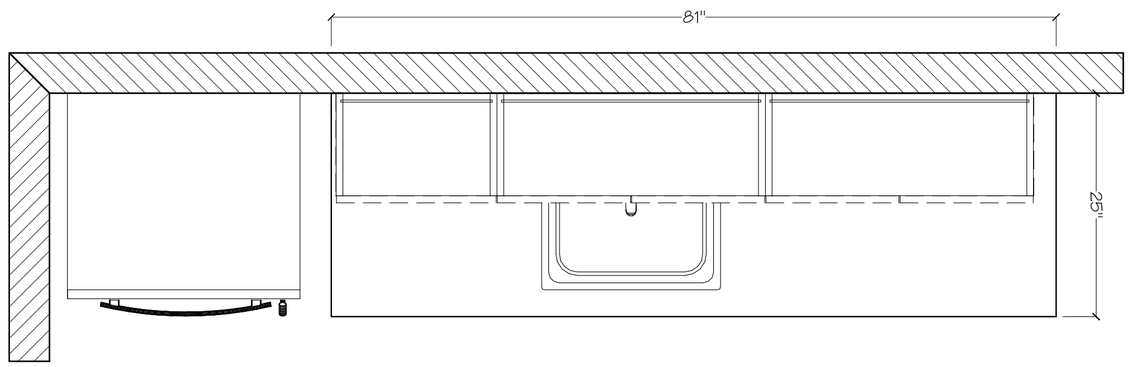
COLLINGSWOOD Architectural Millwork, Inc.

MCKEE CITY DOT OFFICE
W.J. GROSS

COVER PAGE

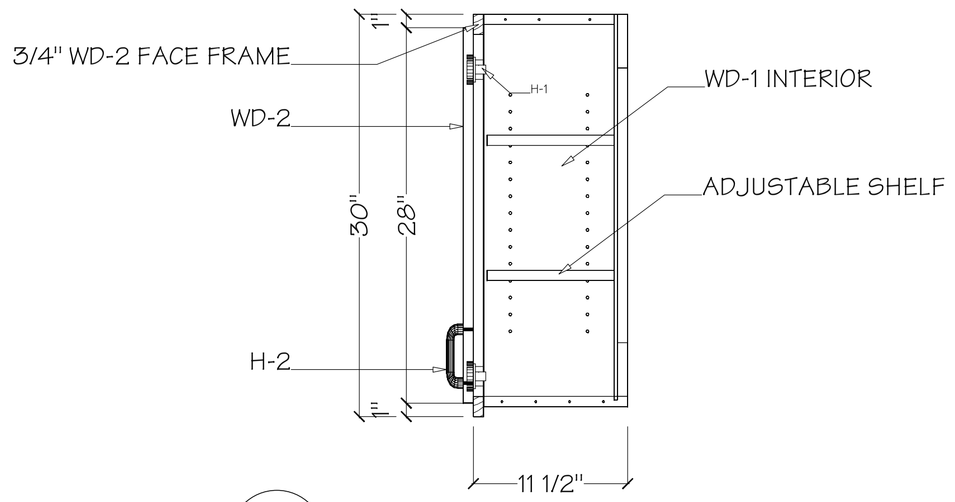
DRAWN BY:	CHECKED BY:	JOB. NO.
MV	XX	05464
SCALE: AS NOTED		
DATE: 05/07/20		SHEET NO. CP
SHEET 1 OF 3		

EXHIBIT 'E'



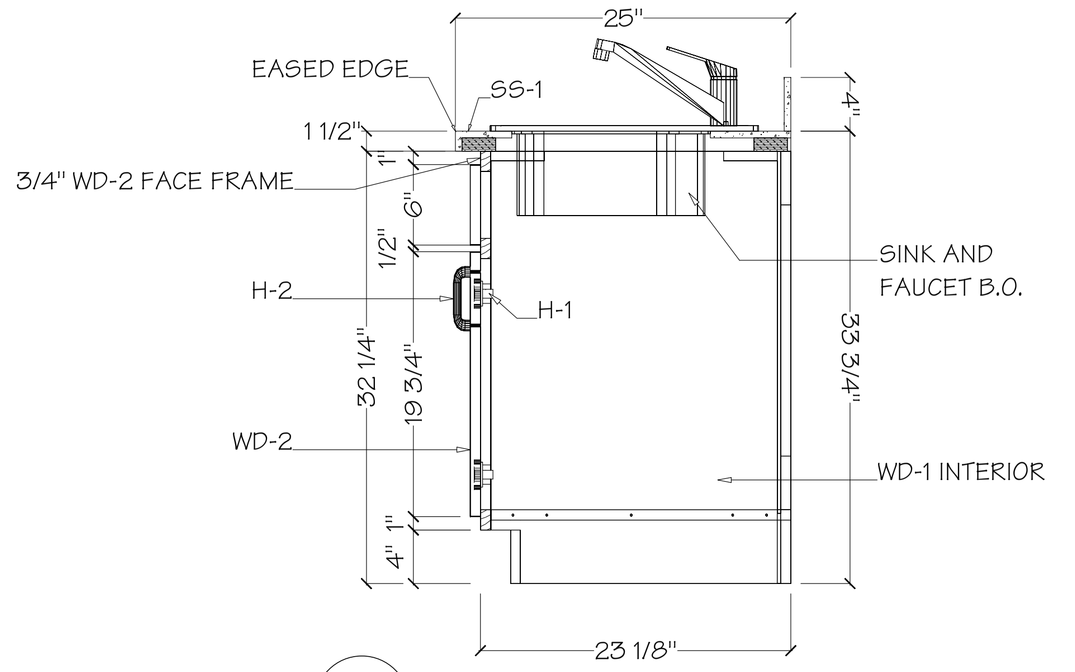
2/02

1 KITCHENETTE PLAN
SCALE: 1" = 1'

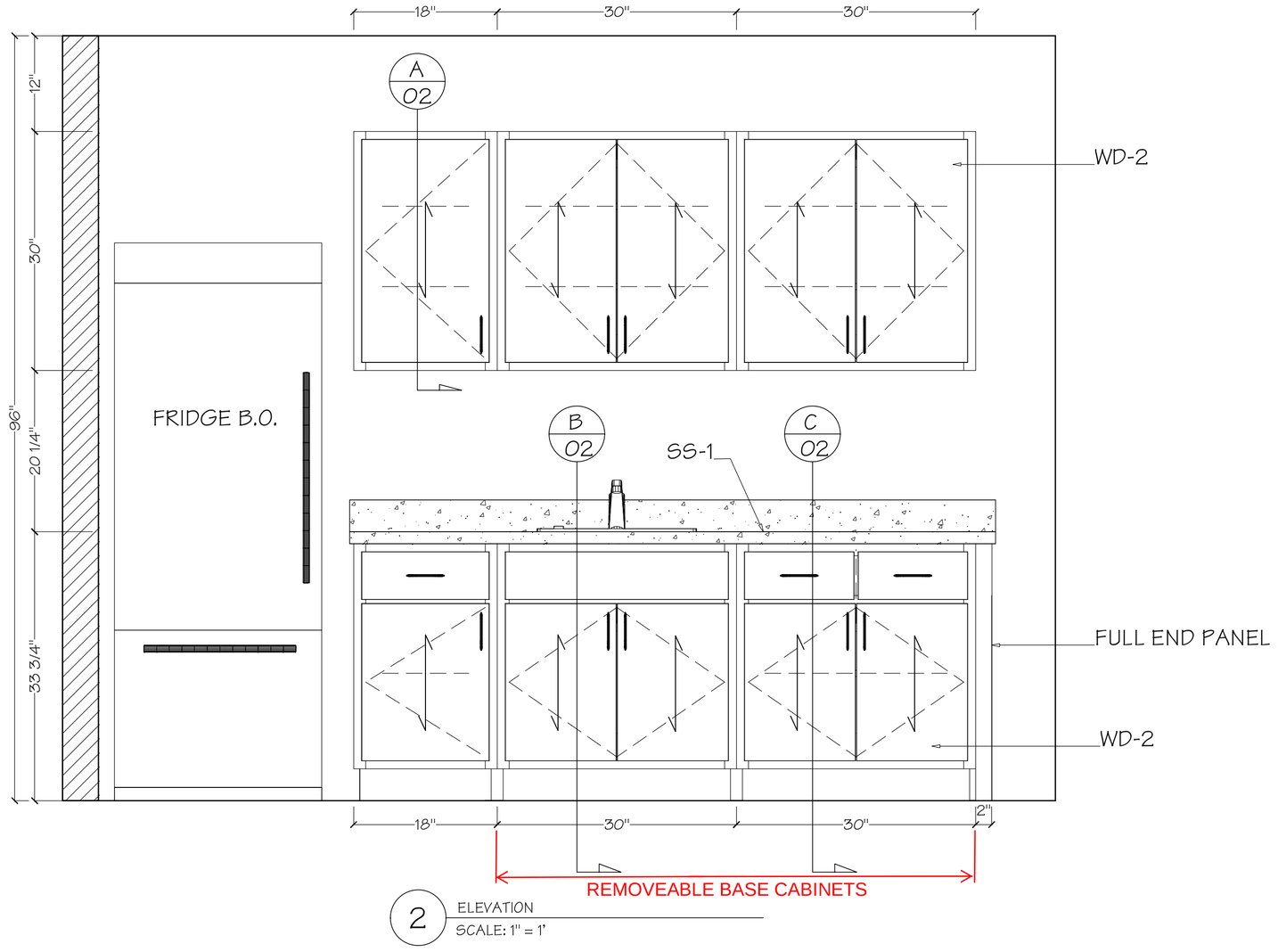


A SECTION
SCALE: 1 1/2" = 1'

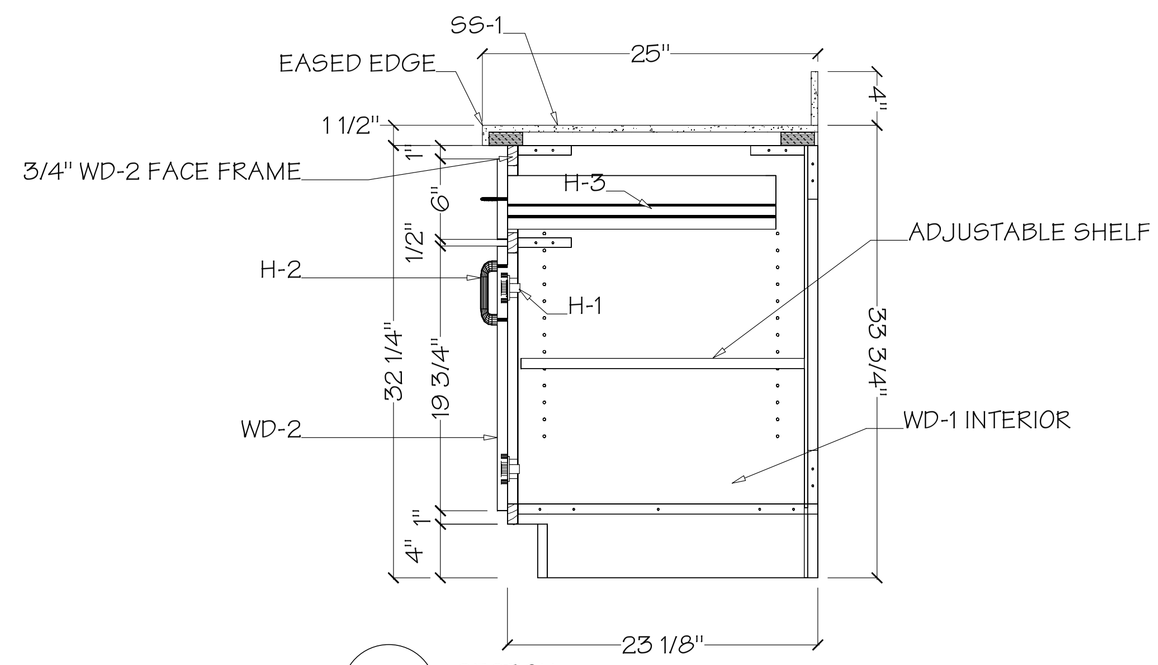
AS BUILTS
W. J. GROSS, INC.
10/30/20



B SECTION
SCALE: 1 1/2" = 1'



2 ELEVATION
SCALE: 1" = 1'



C SECTION
SCALE: 1 1/2" = 1'

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REVISIONS:

DATE:	BY:	REVISION:
11/05/19	MV	INITIAL SET
4/27/20	MV	REV 1
5/6/20	MV	REV 2

715 TAYLOR AVENUE
COLLINGSWOOD, NJ 08107
PHONE: (856) 854-4440
FAX: (856) 854-2897

COLLINGSWOOD Architectural Millwork, Inc.

MCKEE CITY DOT OFFICE
W.J. GROSS

KITCHENETTE

DRAWN BY:	CHECKED BY:	JOB. NO.
MV	XX	05464
SCALE: AS NOTED		
DATE: 05/07/20		SHEET NO. 02
SHEET 3 OF 3		

EXHIBIT 'E'

GENERAL PLUMBING NOTES:

1. CONTRACTOR SHALL INSTALL ALL PLUMBING WORK IN ACCORDANCE WITH THE NEW JERSEY EDITION INTERNATIONAL CONSTRUCTION CODE, 2015: AND THE 2015 NATIONAL STANDARD PLUMBING CODE.
2. CONTRACTOR SHALL INSTALL NEW 2" COLD WATER SUPPLY LINE INTO THE BUILDING WITH A NEW 2" PE COLD WATER SUPPLY LINE IN THE CRAWL SPACE SHALL BE HEAT TRACED AND INSULATED AND RUN UP INTO OFFICE BUILDING.
3. CONTRACTOR SHALL: PROVIDE A NEW 4" SANITARY BUILDING DRAIN FROM MODULAR OFFICE CONNECTION TO SANITARY SEWER PIPE TO NEW SEPTIC SYSTEM.
4. CONTRACTOR SHALL INSTALL SELF-LIMITING HEAT TAPE ON COLD WATER LINE AND SANITARY DRAIN FROM BUILDING ON ALL PIPE BELOW FLOOR IN CRAWL SPACE. CONTRACTOR SHALL COVER THE PIPE AND TAPE WITH 1" THICK FIBERGLASS INSULATION WITH ASJ COVER.
5. ALL UNDERGROUND COLD WATER SERVICE PIPES SHALL HAVE MINIMUM 42" COVER.
6. SANITARY DRAIN AND SEWER TO HAVE COVER AS SHOWN ON DRAWING, MIN. 6" COVER REQUIRED.
7. CONTRACTOR SHALL PROVIDE ALL EXCAVATION, BEDDING, COMPACTION AND RESTORAGE OF SURFACE TO MATCH EXISTING SURFACE CONDITIONS FOR ALL UNDERGROUND SANITARY PIPES INSTALLED.
8. ALL SANITARY LINES SHALL BE PITCHED DOWN AT A MIN. 1/4" PER FOOT, UP TO 3" PIPE SIZE, 1/8" PER FOOT MIN. FOR 4" PIPE.
9. CONTRACTOR SHALL COORDINATE ALL REQUIRED PLUMBING AND INSPECTIONS WITH THE PROJECT MANAGER AND DCA CODE INSPECTORS.
10. CONTRACTOR SHALL FURNISH AND INSTALL SEWER PIPING FROM EXTERIOR CLEANOUT TO NEW SEPTIC AND NEW SEPTIC SYSTEM AS PART OF THIS PROJECT UNDER ANOTHER SECTION OF WORK.
11. REFER TO PLUMBING SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYED PLUMBING NOTES:

(T1) 3" TAP OF EXISTING 12" WATER MAIN AND LINE TO METER PIT BY N.J. AMERICAN WATER CO.

(M1) NEW METER PIT BY N.J. AMERICAN WATER CO.

(P1) NEW 3" UNDERGROUND WATER SERVICE PIPE.

(P2) CAP END OF 3" PIPE.

(P3) SAW CUT AND REMOVE PAVEMENT, EXCAVATE, INSTALL PIPE, BACKFILL.

(P4) NEW 2" CURB VALVE 5'-0" OUTSIDE BUILDING WITH EXTENSION UP TO GRADE.

(P5) NEW 2" UNDERGROUND WATER SERVICE LINE INTO NEW OFFICE BUILDING UP THROUGH CRAWLSPACE INTO TELE/DATA ROOM.

(P6) PROVIDE HEAT TAPE AND 1" THICK FIBERGLASS PIPE INSULATION WITH ASJ JACKET ON ALL WATER AND SANITARY PIPES IN THE CRAWLSPACE.

(P7) TRANSITION FINAL PE TO 2" TYPE 'L' COPPER, AND REDUCE FROM 2" TO 1 1/4" COPPER COLD WATER SUPPLY INTO BUILDING.

(P8) NEW 1 1/4" DOUBLE CHECK BACKFLOW PREVENTER.

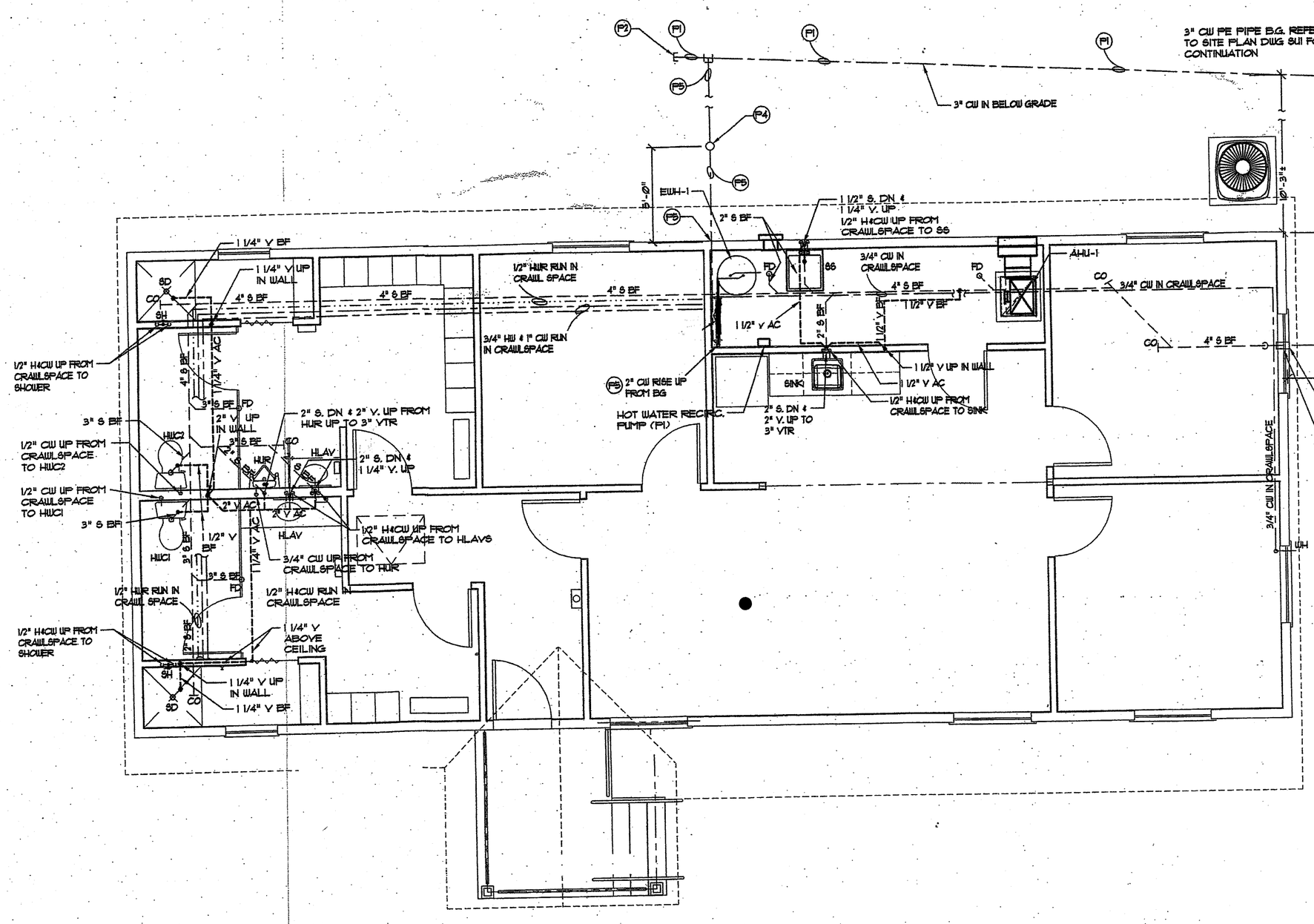
(P9) REFER TO SITE UTILITY PLAN FOR WATER SERVICE PIPE.

(P10) PROVIDE MARKER TAPE, MIN. 6" ABOVE PIPE

(P11) PROVIDE MARKER TAPE, MIN 18" ABOVE PIPE.

PLUMBING SYMBOL LIST

DN.	DOWN	SAN	SANITARY ABOVE FLOOR
EX.	EXISTING	SAN	SANITARY BELOW FLOOR
HWC1	HANDICAP WATER CLOSET TYPE 1	SAN	SANITARY BELOW GRADE
HLAV	HANDICAP LAVATORY	CW	EXISTING COLD WATER
HUR	HANDICAP URINAL	CW	COLD WATER
SINK	KITCHEN SINK	HW	HOT WATER
SD	SHOWER DRAIN	HW	HOT WATER RECIRC.
FD	FLOOR DRAIN	V	VENT
WH	FREEZEPROOF WALL HYDRANT	1/4" / FT	1/4" PER FT. PITCH DN IN DIRECTION OF ARROW (UNLESS NOTED OTHERWISE)
VTR	VENT THROUGH ROOF	(P1)	KEYED PLUMBING NOTE INDICATOR
HB	BRASS HOSE BIBB WITH CAP	VB	VACUUM BREAKER
EWH	ELECTRIC WATER HEATER	AFF	ABOVE FINISH FLOOR
CO	CLEAN OUT	AFG	ABOVE FINISH GRADE
ECO	EXTERIOR CLEAN OUT	BF	BELOW FLOOR
DFU	DRAINAGE FIXTURE UNITS	BG	BELOW GRADE
WSFU	WATER SUPPLY FIXTURE UNITS	DIA.	DIAMETER
TOS	TOP OF SLAB		PIPE DROP
	CONNECT TO EXISTING		PIPE RISE
	UNION		PIPE CAP
IN.	INCH		PUMP P1
FT.	FOOT		CHECK VALVE
	BALL VALVE	BV	BALANCE VALVE
A	WATER HAMMER ARRESTOR SIZE PDI TYPE A, B, C, ETC.		



NEW OFFICE BUILDING FLOOR PLAN - PLUMBING

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

AS-BUILT DRAWINGS

KISBY SHORE PLUMBING & HEATING CO.

CERTIFIED _____ DATE 10/31/19

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

PLUMBING PLAN AND NOTES

SUBMISSION	BY	DATE
FINAL	LC	02/26/18
FINAL 2	LC	06/13/18
FINAL 3	LC	02/28/19
PERMIT/BID	LC	07/17/19

RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE – PLANNING – DESIGN
405 RICHMOND AVE.
POINT PLEASANT BEACH, NEW JERSEY

EASTERN CONSULTANTS, INC.
CONSULTING ENGINEERS
2211 LEHIGH ST. P.O. BOX 4539
EASTON, PENNSYLVANIA 18043

David J. Parsons P.E.
DAVID J. PARSONS, N.J.P.E. NO 24014

P1

EXHIBIT 'E'

PLUMBING FIXTURE SCHEDULE

FIXTURE	MANUFACTURER	TYPE	MODEL	TRIM NO.	SUPPLY PIPE NO.	TRAP NO.	SUPPORT NO.	PIPE SIZES TRAP	WASTE	VENT	C.W.	H.W.	REMARKS
HLAV1	AMER. STAND.	Flollise ELONGATED PRESSURE ASSIST - 1.1 GPF	3483.1Ø0 (BOWL) 4142.8Ø1 (TANK)	NOTE NO. 2		INTEGRAL	FLOOR		3"	2"	1/2"	-	TOP OF SEAT AT 17" TO 19" AFF, TANK WRIGHT HAND TRIP LEVER, SEAT: CHURCH # 5500C
HLAV2	AMER. STAND.	Flollise ELONGATED PRESSURE ASSIST - 1.1 GPF	2467.1Ø0	NOTE NO. 2		INTEGRAL	FLOOR		3"	2"	1/2"		TOP OF SEAT AT 17" TO 19" AFF, SEAT: CHURCH # 5500C
HJR	AMER. STAND.		6590.2525	SUPPLIED WITH SELECTRONIC URINAL FLUSH VALVE, Ø.125 GPF			JR SMITH 6371		2"	1 1/2" MIN	3/4"		MOUNT RIM 17" AFF. SEE NOTES: 13,14,15,16,17
HLAV	AMER. STAND.	OVALYN UNIVERSAL ACCESS UNDERCOUNTER SINK	9482.0Ø0Ø	SYMMONS/SCOT SLC-8Ø0Ø-G	SEE NOTES	1-1/4"	COUNTER	1 1/4"	1 1/2"	1 1/4"	1/2"	1/2"	UNDER COUNTER MOUNT FAUCET: Ø.5 GPM FLOW RATE, SELF CLOSING NOTES #12
SNK	ELKAY	LUSTERTONE CLASSIC STAINLESS STEEL SINGLE BOWL DROP-IN ADA SINK	LRAD191955	ELKAY MODEL LK4Ø3R STRAINER BASKET & OFFSET TAILPIECE		1-1/2"	COUNTER	1 1/2"	1 1/2"	1 1/4"	1/2"	1/2"	SINGLE BOWL SINK WITH AMERICAN STANDARD MODEL 6485.110 TOP-MOUNT KITCHEN FAUCET WITH GOOSENECK SPOUT NOTES # 1 & 12
SH	MOEN	CHATEAU STYLE HANDLE SHOWER	TL182 SERIES	MOEN 2570 PRESSURE BALANCED DIVERTER VALVE W/INTERNAL STOP-VALVES							1/2"	1/2"	1.75 GPM FLOW, HEAD 5'-6" AFF
BB	MUSTEE	UTILATUB	MODEL 14	GERBER FAUCET MODEL 49-231	BALL VALVES		LEGS	1 1/2"	1 1/2"	1 1/4"	1/2"	1/2"	SEE NOTES: 19,20,21,22 ONE PIECE MOLDED CONSTRUCTION W/INISHED STEEL, LEGS, FAUCET AND DRAIN SEE NOTES: 7,8, & 26
SD	PROVIDED WITH SHOWER STALL	SHOWER DRAIN						2"	2"				SEE NOTE: 23
FD	MIFAB	FLOOR DRAIN	FD23Ø-1JF					3"	3"				REFER TO "FLOOR DRAIN DETAIL" ON DWG P2 SEE NOTES: 23 & 25
ECO	JR. SMITH	EXTERIOR CLEAN OUT	4231						4"				INSTALL TOP FLUSH WITH GRADE
WH	ZURN	WALL HYDRANT	Z-1321-C								3/4"		W/REMOVABLE KEY HANDLE & VACUUM BREAKER
HB	WATTS	HOSE BIBB	8CB-1								1/2" NPT		W/ANTI-FREEZE PROOF VACUUM BREAKER SEE NOTE: 24
	JR. SMITH	WATER SEAL TRAP SEALS	FIG. 2692										2" SHOWER AND 3" FLOOR DRAIN TRAP SEALS SEE NOTE: 23

PLUMBING FIXTURE SCHEDULE NOTES:

1. HANDICAP WATER CLOSET: PRESSURE ASSISTED SIPHON JET FLUSH, FLUSHES AT 1.1 GALLONS.
2. HANDICAP WATER CLOSET: PROVIDE A PVC FLOOR FLANGE CONNECTED TO A 3" PVC PIPE DOWN THROUGH FLOOR AND SEAL FOR EACH WATER CLOSET.
3. HLAV1 & HLAV2: PROVIDE CHROME-PLATED BRASS FOR EXPOSED SUPPLY PIPES AND SHUT-OFF VALVES.
4. HLAV3: FLUSH LEVER TO BE ON THE APPROACH SIDE TO HLAV.
5. HLAV'S AND HJR MANUFACTURERS: AMERICAN STANDARD AS SPECIFIED OR BY KOHLER, TOTO, SLOAN OR APPROVED EQUAL.
6. HLAV'S: ADJUST SELF-CLOSING FAUCETS TO REMAIN OPEN FOR 10 SECONDS, MAX. Ø.5 GPM
7. HLAV'S & SINKS: PROVIDE CHROME-PLATED BRASS FOR EXPOSED SUPPLY PIPES AND SHUT-OFF VALVES.
8. HLAV'S AND SINKS: PROVIDE PVC DRAINS AND TRAPS.
9. HLAV'S: PROVIDE WITH GRID STRAINER & TAILPIECE.
10. HLAV MANUFACTURERS: AMERICAN STANDARD AS SPECIFIED OR BY KOHLER, TOTO, SLOAN OR APPROVED EQUAL.
11. SINK MANUFACTURERS: ELKAY, JUST, MOEN, KOHLER, OR APPROVED EQUAL.
12. PROVIDE INSULATION AND COVERS ON THE WATER SUPPLY PIPING AND WASTE PIPING EXPOSED UNDER THE SINK AND HLAV'S. PRODUCTS SHALL BE AS MANUFACTURED BY TRUCAIR PRODUCTS INC. INSULATION KIT 5400K. TRUEBRO MODEL 102 INSULATION KIT "1" ARMAFLEX" INSULATION WITH WHITE PVC COVERS, OR APPROVED EQUAL. PIPE WRAP INSULATION AND COVERS.
13. AUTOMATIC INFRARED BATTERY POWERED HEAD ON FLUSH VALVE. AMERICAN STANDARD SELECTRONIC FLOWISE. FIXTURES TO BE AMERICAN STANDARD AS SPECIFIED OR BY SLOAN, ZURN, TOTO OR APPROVED EQUAL.
14. CONCEALED SUPPLY PIPES TO BE COPPER.
15. TRAPS & SUPPLY PIPES TO BE BY McGUIRE, AMERICAN STANDARD, ECONOMY, OR EQUAL.
16. FLOOR MOUNT SUPPORT FURNISHED WITH HJR. PROVIDE BLOCKING IN WALL AND BOLT IT TO BACKING IN WALL.
17. FIXTURE SUPPORTS, WH, HB, FD, ECO, AND FCO MANUFACTURERS: JR SMITH, WADE, ZURN, OR APPROVED EQUAL.
18. REFER TO ARCHITECTURAL DRAWINGS FOR COUNTERTOPS WITH LAVATORY BOWL AND KITCHEN SINK FURNISHED AS INTEGRAL PART OF COUNTERTOP.
19. PROVIDE 1/2" C.W. AND 1/2" H.W. IN WALL TO SHOWER VALVE AND 1/2" MIXED WATER UP TO SHOWER HEAD.
20. MOUNT SHOWER HEAD AT 6'-6" ABOVE FLOOR AND SHOWER VALVE AT 48" ABOVE FINISHED FLOOR.
21. SHOWER VALVE MUST COMPLY WITH ASME A112.1 Ø16/A65E 1Ø16 STANDARDS.
22. REFER TO PLUMBING EQUIPMENT FOR SHOWER STALL AND DRAIN, FURNISHED WITH STALL. PROVIDE TRAP AND TRAP SEAL FOR SHOWER DRAIN.
23. PROVIDE 5" DEEP SEAL TRAP AT EACH SHOWER DRAIN AND FLOOR DRAIN AND INSTALL ASSE 1072 COMPLIANT BARRIER TYPE TRAP SEAL PROTECTION DEVICE IN EACH DRAIN. MANUFACTURERS: JR. SMITH, GREEN DRAIN, SUPE-SEAL, PRO-VENT, OR APPROVED EQUAL.
24. PROVIDE A DRAIN VALVE AT LOW POINTS OF THE WATER SYSTEM FOR WINTERIZATION WITH TAMPER PROOF VACUUM BREAKER.
25. FIXTURES TO BE MIFAB, SOLIX CHIEF, ZURN, OR APPROVED EQUAL.
26. SERVICE SINK MANUFACTURERS: MUSTEE, FIAT, AMERICAN STANDARD, OR APPROVED EQUAL.

PLUMBING EQUIPMENT:

ELECTRIC WATER HEATER NO. 1 (EWH-1):

BRADFORD WHITE MODEL RE33Ø66
41" HIGH X 24" DIAMETER
STORAGE CAPACITY: 150 GALLONS
HEATER: 4500 WATTS UPPER/LOWER,
VOLTAGE: 208/240V, 1 PHASE, 21.6 AMPS
RECOVERY: 21 GPH @ 90 DEG. F RISE
WITH 7/4" VALVE PIPED DOWN 3/4" TO 6" AFF
WEIGHT: 144 LBS.
SET AT 140 DEG. F.
MOUNT WATER HEATER ON 4" HIGH PREFAB CONCRETE PAD
MANUFACTURERS: BRADFORD WHITE, STATE, A.O. SMITH OR APPROVED EQUAL

EXPANSION TANK NO. 1 (ET-1):

WATTS MODEL NO. ST-5-M1 (ASME) AND (ANSI NSF61 RATED)
TANK VOLUME: 2.1 GALLONS
TANK ACCEPTANCE: 1.26 GALLONS
WORKING PRESSURE = 150 PSIG
3/4" NPT CONNECTION
SIZE: 8 DIA X 11" HIGH
WEIGHT: 9.8.0 LBS.
MANUFACTURERS: WATTS, TACO, AMTROL, B&G OR APPROVED EQUAL

TEMPERATURE CONTROL VALVE NO. 1 (TCV-1):

WATTS TEMP. CONTROL MODEL NO. LFH1Ø-U6-M2
SET AT 120°F (ADJUSTABLE)
PROVIDE WITH THERMOSTAT ON OUTLET PIPE TO FIXTURES BY WATTS, SYMMONS, POWERS, LEONARD, OR APPROVED EQUAL
VALVE IS ASSE 1071 COMPLIANT

HOT WATER RECIRC. PUMP NO. 1 (P1):

BELL & GOSSETT MODEL NO. 66F-2ULW WITH (2) 1/2" UC-1/26 SWEAT HALF UNIONS
B5 WATTS AT 120 VOLT, 1 PHASE WITH AQUASTAT AND THERMAL OVERLOAD SWITCH
RATED AT 5 GPM A 8FT HEAD.
PROVIDE WITH TC AUTOMATIC TIMER KIT AND AQ8-1/2" AQUASTAT.

WIRE THE AQUASTAT ON THE PUMP SIDE OF THE TIMER SO THAT THE AQUASTAT CAN START THE PUMP ONLY WHEN THE TIMER ALLOWS IT TO RUN.
THE TIMER SHALL BE SET TO RUN DURING PEAK OCCUPIED PERIODS, AND WILL BE SET TO TURN ON AND OFF AT INTERVALS DURING THE DAY.

SELF-REGULATING HEATING CABLE (HEAT TAPE):

PROVIDE SELF-REGULATING HEATING CABLE ON WATER PIPES AND SANITARY PIPES IN CRAWL SPACE
PROVIDE 6CH. 8Ø PVC SLEEVE THROUGH CONCRETE FLOOR.
HEAT TAPE SHALL BE OMEGA TYPE 5RPB-1C CABLE, RATED AT 120 VOLTS, 5 WATTS PER FOOT, (25' ROLL) AND OMEGA RTCP NEMA 4X SPLICE BOX ON PIPE, 120 VOLT. 5J CABLE WITH PLUG, PLUG INTO RECEPTACLE IN CRAWLSPACE, FOR HEAT TAPE

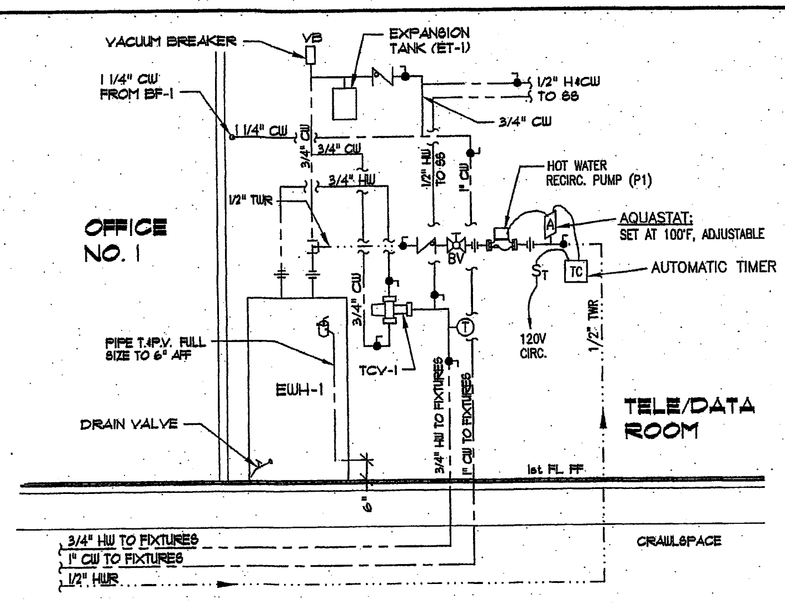
MANUFACTURERS: OMEGA, NELSON, EASY TAPE OR APPROVED EQUAL.

NOTE: CONTRACTOR SHALL FURNISH AND INSTALL 2Ø AMP, 1 POLE GFEP BREAKERS IN PANEL A FOR EACH CIRCUIT FOR PIPE HEAT TRACE.

FURNISH AND INSTALL "WARNING - ELECTRICAL HEAT TAPE" SIGN ON WATER PIPES AND SANITARY DRAIN PIPES WITH HEAT TAPE.

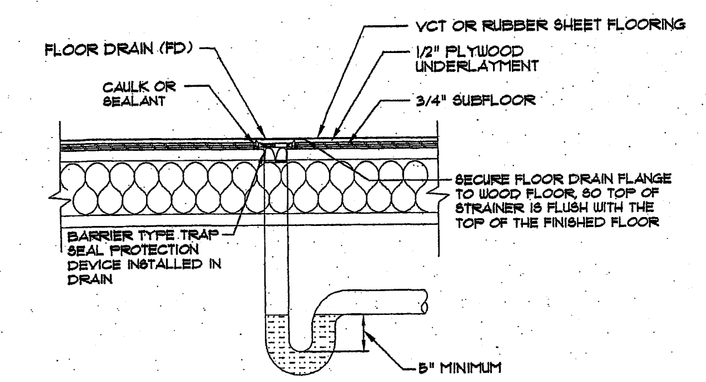
SHOWER STALL:

PROVIDE ONE-PIECE SHOWER STALL WITH SMOOTH WALL FINISH, MOLDED TOILETRY SHELVES, SLIP-RESISTANT TEXTURED BOTTOM, CENTER DRAIN, ACRYLIX APPLIED ACRYLIC SURFACE, BRASS SHOWER DRAIN.
STANDARD COLOR: BISCUIT
BASIS OF DESIGN: AQUATIC MODEL #363
MANUFACTURERS: AQUATIC, DREAMLINE, STERLING, KOHLER, DIAMOND, OR APPROVED EQUAL



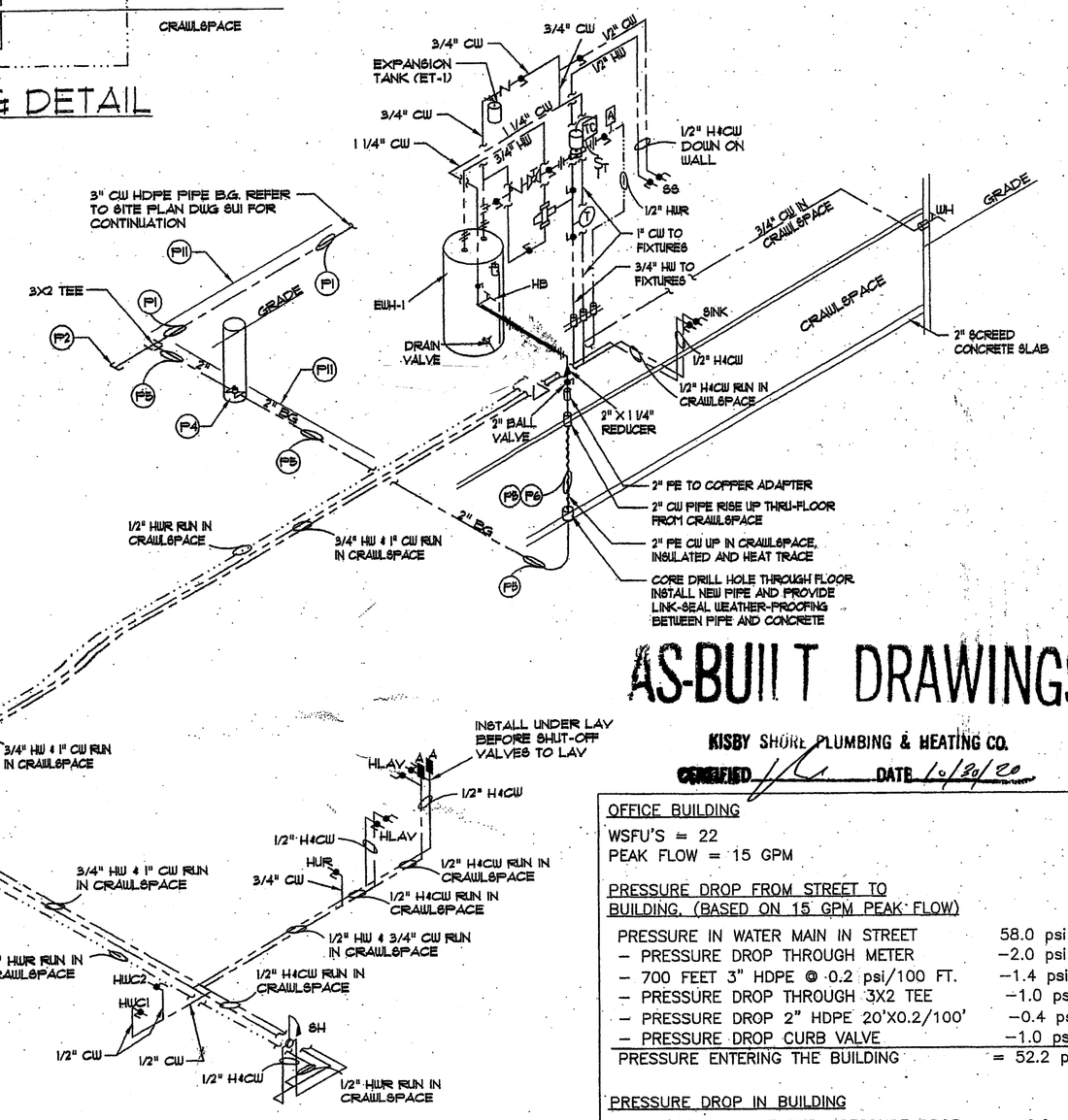
WATER HEATER PIPING DETAIL

NO SCALE



FLOOR DRAIN DETAIL

NO SCALE



WATER RISER DIAGRAM

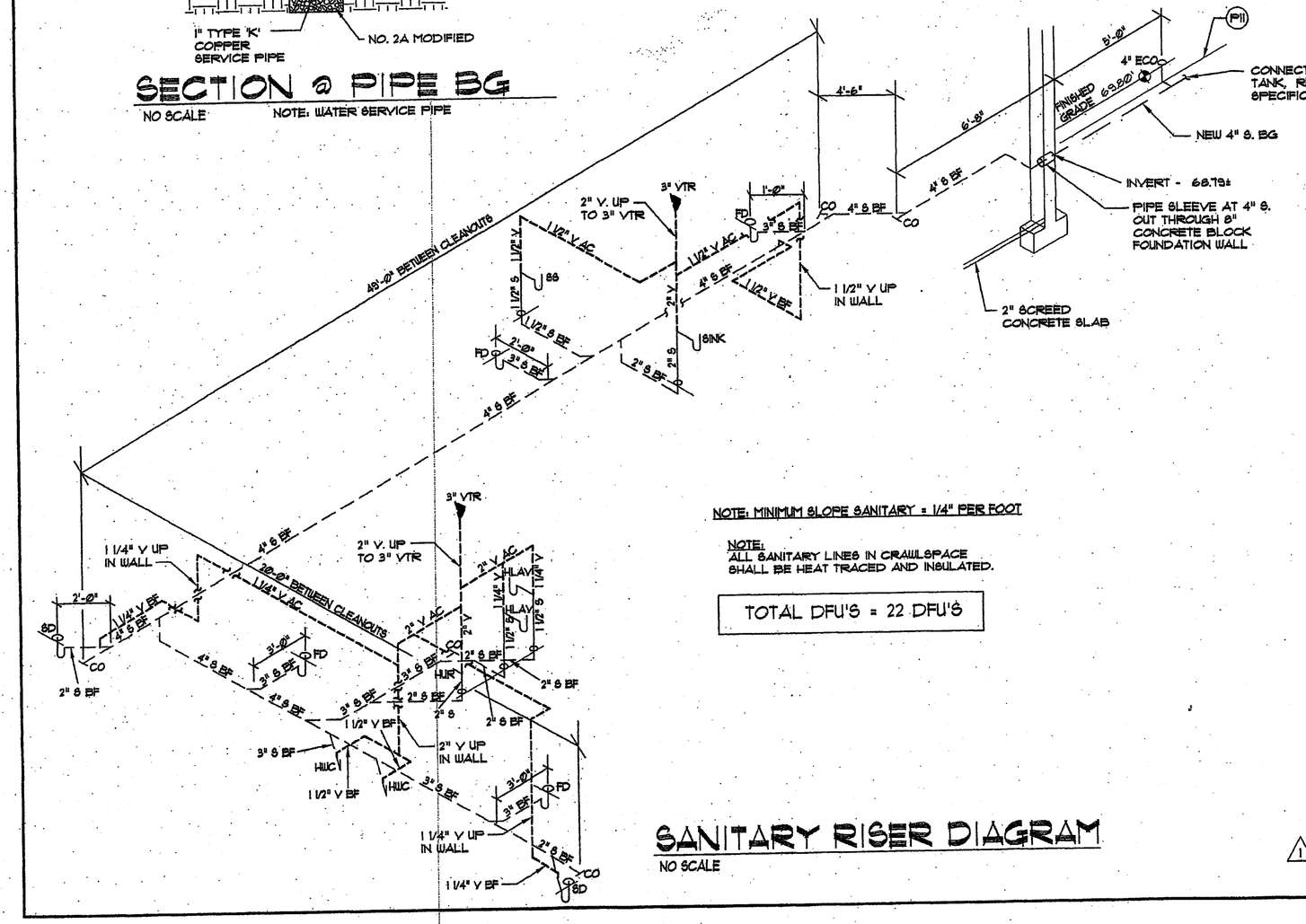
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NOTE:
REFER TO DRAWING P1 FOR "KEYED PLUMBING NOTES" (P1)

NOTES:
1. ALL HOT, COLD, AND HOT WATER RECIRC. WATER PIPES WILL BE INSULATED.
2. ALL HOT, COLD, AND HOT WATER RECIRC. WATER PIPES IN CRAWLSPACE WILL BE HEAT TRACED AND INSULATED.

SECTION @ PIPE BG

NO SCALE NOTE: WATER SERVICE PIPE



SANITARY RISER DIAGRAM

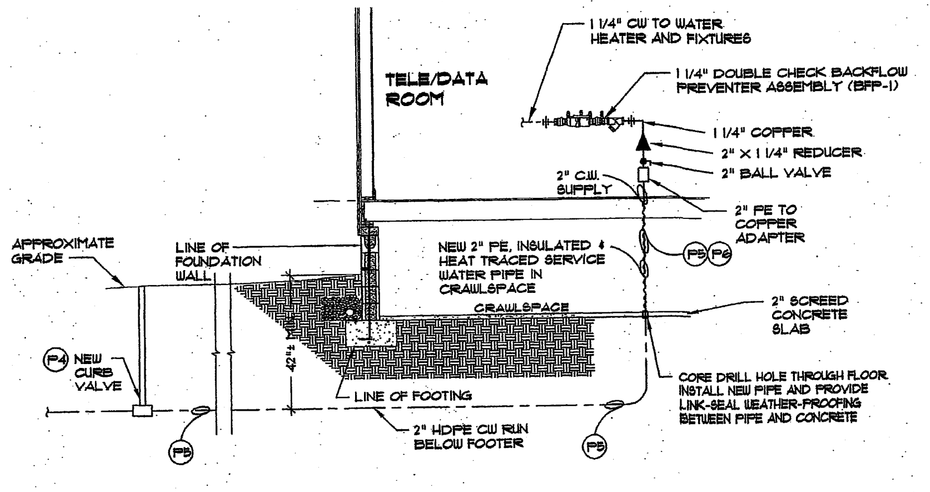
NO SCALE

NOTE: MINIMUM SLOPE SANITARY = 1/4" PER FOOT

NOTE:
ALL SANITARY LINES IN CRAWLSPACE SHALL BE HEAT TRACED AND INSULATED.

TOTAL DFU'S = 22 DFU'S

C.W. AND H.W. PIPES TO FIXTURES. THESE PIPES RUN THROUGH CRAWLSPACE AND SHALL BE HEAT TRACED AND INSULATED IN THE CRAWLSPACE. PROVIDE HEAT TAPE AND INSULATION ON ALL COLD AND HOT WATER PIPES IN CRAWLSPACE.



⚠ WATER SERVICE ENTRANCE SECTION

NO SCALE

AS-BUILT DRAWINGS

KISBY SHORE PLUMBING & HEATING CO.
CERTIFIED [signature] DATE 1/28/20

OFFICE BUILDING
WSFU'S = 22
PEAK FLOW = 15 GPM

PRESSURE DROP FROM STREET TO BUILDING. (BASED ON 15 GPM PEAK FLOW)

PRESSURE IN WATER MAIN IN STREET	58.0 psi
– PRESSURE DROP THROUGH METER	–2.0 psi
– 700 FEET 3" HDPE @ .0.2 psi/100 FT.	–1.4 psi
– PRESSURE DROP THROUGH 3X2 TEE	–1.0 psi
– PRESSURE DROP 2" HDPE 20'X0.2/100'	–0.4 psi
– PRESSURE DROP CURB VALVE	–1.0 psi
PRESSURE ENTERING THE BUILDING	= 52.2 psi

PRESSURE DROP IN BUILDING

– BACKFLOW PREVENTER PRESSURE DROP	–2.0 psi
– PIPING PRESSURE DROP TO FURTHEREST FIXTURE	–3.0 psi
TOTAL PRESSURE DROP FOR BUILDING	= –5.0 psi
PRESSURE DROP AT LAST FIXTURE	= 47.2 psi

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593–00

PLUMBING RISERS, SCHEDULES AND DETAILS

SUBMISSION	BY	DATE
FINAL	LC	Ø1/26/18
FINAL 2	LC	Ø6/13/18
FINAL 3	LC	Ø2/28/19
PERMIT/BID	LC	Ø7/17/19

RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE – PLANNING – DESIGN
405 RICHMOND AVE.
POINT PLEASANT BEACH, NEW JERSEY

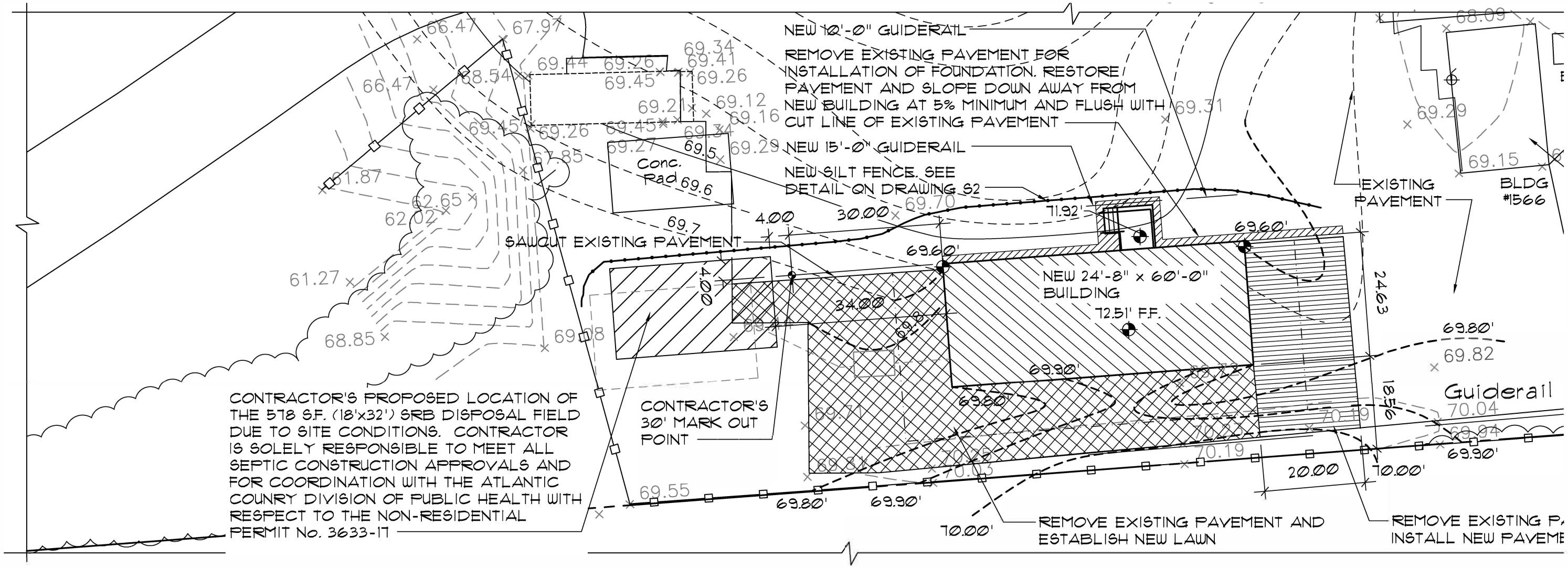
EASTERN CONSULTANTS, INC.
CONSULTING ENGINEERS
2211 LEHIGH ST. P.O. BOX 4539
EASTON, PENNSYLVANIA 18043

[signature]
DAVID J. PARSONS, N.J.P.E. NO 24014

P2

SITE PLAN REVISION OF SEPTIC LOCATION

EXHIBIT 'E'



ENLARGED SITE PLAN

SCALE: 1" = 20'

SCANNED
Rec'd 4/12/19
#0194-18
DOT
1801-08

ATLANTIC COUNTY DIVISION OF PUBLICHEALTH

201 South Shore Road
Northfield, New Jersey 08225-2370
Telephone (609) 645-5971

NON-RESIDENTIAL PERMIT

DATE 4/10/19

Permission is hereby granted t

- X Original
- ____ Revision
- ____ Permit Extension
- ____ Alteration
- ____ TWA Permit Y / N

Restaurant and/or Bar Y / (N)
Office Y / (N)
Church Y / (N)
Day Care Y / (N)
Class Rooms Y / (N)
Cafeteria Y / (N)
Other DOT office Trailer
Designed for 350 GPD
Electrical Permit Required Y / (N)

PERMIT NUMBER 3633-17

Name Ronald A Sebring
405 Richmond Avenue
Street Address
Point Pleasant Beach, NJ 08742
City, State, Zip

To construct an on-site: Chamber System _____ Stone System X Pressure dosing _____ Gravity-dosing _____
Mounded System _____ Subsurface sewage disposal system prepared by Sandford Mersky, P.E. dated 8/31/17, and in accordance with the provisions of N.J.S.A. 58:11-23 and N.J.A.C. 7.9A et. seq.at:

MUNICIPALITY Egg Harbor Twp. BLOCK 1501 LOT 8

APPROVED BY/DIVISION REPRESENTATIVE Jay Flemming SR. REHS
(SIGNATURE) (TITLE)

EXHIBIT J-1

NOTICE

This permit expires one year from the date of issuance. Applicants are advised to contact our office for renewal procedures. The original is for your records. Other copies are provided for distribution to the building official and contractor. Notice (by copy and attachments) is hereby served upon the Pinelands Commission, Permit # _____.

SEPTIC CONSTRUCTION APPROVAL

It is the responsibility of the contracted installer to follow all "APPROVED" design specification. Changes encountered/proposed in the Soil, water tables, location or construction requires the stop of construction with the change brought to the immediate attention of the design engineer and this office. Deviations may render this permit null and void subject to this Departments determination. A representative of this agency must inspect the system prior to final cover. Call this office either the afternoon prior to or between 8:00 AM-9:30 AM on the day of inspection. Additional construction items and the corresponding inspections are checked below.

- X Excavation of KO / K5 Soils
- ____ 2 foot perimeter removal
- ____ Placement of perimeter fill
- X Fill permeability and compaction
- X The bottom of the disposal bed to be 2'7" (below) / above existing grade
- ____ Backhoe Test Pit Required. Depth ____
- X Other Existing ISDS to be properly abandoned, Existing office & pavement to be Removed.
- X Proper location of the disposal field
- ____ Pump operation and alarm installation
- ____ Dosing chamber elevations
- X Certificate of ~~Compliance~~ Tank Tightness

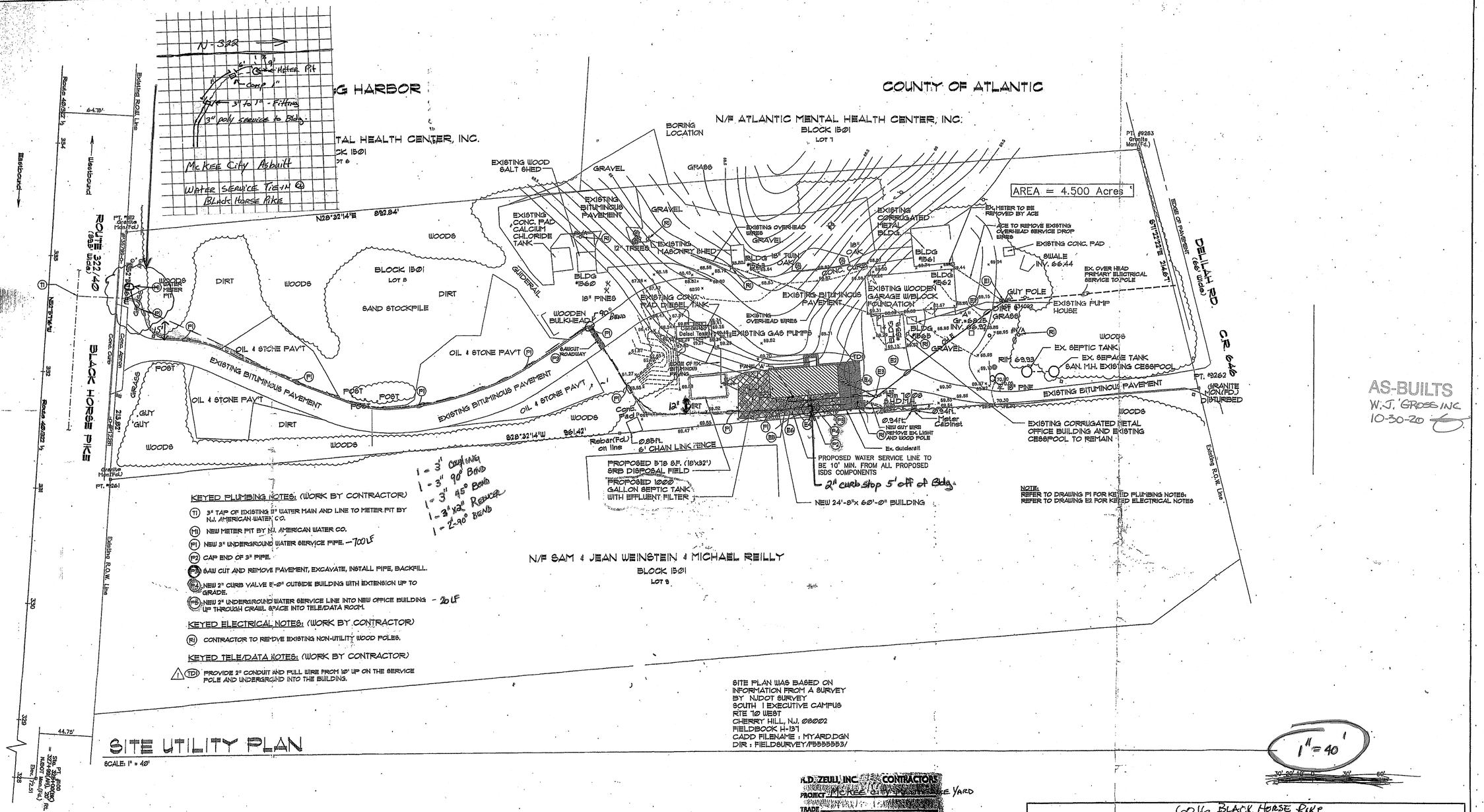
WATER SUPPLY APPROVAL

It is the responsibility of the applicant, in conjunction with a NJ licensed well driller, to obtain a STATE Well Permit prior to installation and to complete a NJDEP Well Record and submit a copy to this office. Final water approval and the issuance of a Certificate of Compliance is contingent upon all above items and the appropriate items checked below.

- X Public Water System
- ____ 24 Hours advance notice for County inspection of well drilling
- ____ Collection and analysis of a water sample by a private certified laboratory to satisfy Safe Drinking Water Act Rules
- ____ Bacterial and chemical results submitted to this office for review/approval
- ____ Performance of an EPA method 504.1 water test for Pesticides
- ____ Not using the existing well on property - Abandonment or Change of Use Permit required
- ____ Using the existing well on property
- ____ Other _____

White – Applicant's Copy *Canary* – Building Offical's Copy *Zerox* – File Copy *Pink* – Installer's Copy *Goldenrod* – Engineer's Copy rev. 2011 (41)

EXHIBIT 'E'



KEYED PLUMBING NOTES: (WORK BY CONTRACTOR)

(T1) 3" TAP OF EXISTING 8" WATER MAIN AND LINE TO METER PIT BY N.J. AMERICAN WATER CO.

(M1) NEW METER PIT BY N.J. AMERICAN WATER CO.

(P1) NEW 3" UNDERGROUND WATER SERVICE PIPE. – 700 LF

(P2) CAP END OF 3" PIPE.

(P3) SAW CUT AND REMOVE PAVEMENT, EXCAVATE, INSTALL PIPE, BACKFILL.

(V2) NEW 2" CURB VALVE 5'-0" OUTSIDE BUILDING WITH EXTENSION UP TO GRADE.

(P5) NEW 2" UNDERGROUND WATER SERVICE LINE INTO NEW OFFICE BUILDING UP THROUGH CRAWL SPACE INTO TELE/DATA ROOM. – 20 LF

KEYED ELECTRICAL NOTES: (WORK BY CONTRACTOR)

(R1) CONTRACTOR TO REMOVE EXISTING NON-UTILITY WOOD POLES.

KEYED TELE/DATA NOTES: (WORK BY CONTRACTOR)

(TD) PROVIDE 2" CONDUIT AND PULL WIRE FROM 10' UP ON THE SERVICE POLE AND UNDERGROUND INTO THE BUILDING.

NOTE:
REFER TO DRAWING P1 FOR KEYED PLUMBING NOTES.
REFER TO DRAWING E2 FOR KEYED ELECTRICAL NOTES

SITE PLAN WAS BASED ON INFORMATION FROM A SURVEY BY NJDOT SURVEY SOUTH 1 EXECUTIVE CAMPUS RTE 70 WEST CHERRY HILL, N.J. 08002 FIELDBOOK H-137 CADD FILENAME : MYARD.DGN DIR : FIELDSURVEY/FB0000333/

SITE UTILITY PLAN

SCALE: 1" = 40'

1" = 40'

R.D. ZEULI, INC. CONTRACTORS
PROJECT MCKEE CITY MAINTENANCE YARD
TRADE
Sample Submitted
Shop Drawings
Submittal is for compliance with original design concept
Contractor has verified field measurements/conditions
Contractor shall verify field measurements/conditions
APPROVED BY DATE 2020

600 BLACK HORSE PIKE
NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

SITE UTILITY PLAN

SUBMISSION	BY	DATE
FINAL	LC	07/26/19
FINAL 2	LC	08/13/19
FINAL 3	LC	01/28/19
FINAL 4	DC	07/10/19
PERMIT/BID	DC	09/11/19

RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE – PLANNING – DESIGN
405 RICHMOND AVE.
POINT PLEASANT BEACH, NEW JERSEY

EASTERN CONSULTANTS
CONSULTING ENGINEERS
2211 LEHIGH ST. P.O. BOX 4539
EASTON, PENNSYLVANIA 18043

David J. Parsons, P.E.
DAVID J. PARSONS, N.J.P.E. NO 24014

SU1

EXHIBIT 'E'

N-322

6" Gate Meter Pit

Comp 1"

3" to 1" - Fittings

3" poly service to Bldg.

McKee City Asbuilt

Water Service Tie-in @ Black Horse Pike

G HARBOR

TAL HEALTH CENTER, INC.

CK 1501

OT 6

COUNTY OF ATLANTIC

N/F ATLANTIC MENTAL HEALTH CENTER, INC.

BLOCK 1501

LOT 7

BORING LOCATION

PT. #9263 Granite Mon.(Fd.)

AREA = 4.500 Acres ±

Route 40/322 ½

Existing ROW Line

64.18'

Eastbound

Westbound

ROUTE 322 40 (99' wide)

PT. #9112 Granite Mon.(Fd.)

N28°32'14"E 892.84'

WOODS

DIRT

BLOCK 1501

LOT 8

SAND STOCKPILE

EXISTING WOOD SALT SHED

GRAVEL

GRASS

EXISTING BITUMINOUS PAVEMENT

EXISTING CONC. PAD CALCIUM CHLORIDE TANK

12" TREES

EXISTING MASONRY SHED

EXISTING OVERHEAD WIRES

BLDG #1560

BLDG 18" TWIN OAK

CONC. CURB

BLDG #1561

BLDG #1562

EXISTING CORRUGATED METAL BLDG.

EXISTING BITUMINOUS PAVEMENT

EXISTING WOODEN GARAGE W/BLOCK FOUNDATION

BLDG #1565

EXISTING CONC. PAD DIESEL TANK

EXISTING GAS PUMPS

EXISTING OVERHEAD WIRES

GUIDERAIL

18" PINES

WOODEN BULKHEAD

90° BEND

15°

OIL & STONE PAV'T

EXISTING BITUMINOUS PAVEMENT

SAWCUT ROADWAY

EDGE OF BITUMINOUS PAVING

PANEL 'A'

Conc. Pad

Rebar(Fd.) Ø.8Ft. on line

6' CHAIN LINK FENCE

PROPOSED 578 S.F. (18'x32') SRB DISPOSAL FIELD

PROPOSED 1000 GALLON SEPTIC TANK WITH EFFLUENT FILTER

NEW 24'-8"x 60'-0" BUILDING

PROPOSED WATER SERVICE LINE TO BE 10' MIN. FROM ALL PROPOSED ISDS COMPONENTS

2" curb stop 5' off of Bldg.

Ø.94ft. NEW GUY WIRE

REMOVE EX. LIGHT AND WOOD POLE

Ex. Guiderail

EX. METER TO BE REMOVED BY ACE

ACE TO REMOVE EXISTING OVERHEAD SERVICE DROP WIRES

EXISTING CONC. PAD

SWALE INV. 66.44

EX. OVER HEAD PRIMARY ELECTRICAL SERVICE TO POLE

GUY POLE

EXISTING PUMP HOUSE

Gr.=68.25 INV. 66.92

EX. SEPTIC TANK

EX. SEPAGE TANK

SAN. M.H. EXISTING CESSPOOL

RIM 69.93

18" PINE

EXISTING BITUMINOUS PAVEMENT

EXISTING CORRUGATED METAL OFFICE BUILDING AND EXISTING CESSPOOL TO REMAIN

PT. #9262 GRANITE MON.(FD.) DISTURBED

DELILAH RD. (66' wide) C.R. 646

S11°22'22"E 214.67'

EDGE OF PAVEMENT

Existing R.O.W. Line

WOODS

DIRT

GRASS

POST

GUY

'GUY'

CONC. APRON

CONC. CURB

Granite Mon.(Fd.)

PT. #9261

219.92'

S28°32'14"W 861.42'

WOODS

1 - 3" Coupling

1 - 3" 90° Bend

1 - 3" 45° Bend

1 - 3"x4" Reducer

1 - 2"-90° Bends

KEYED PLUMBING NOTES: (WORK BY CONTRACTOR)

(T1) 3" TAP OF EXISTING 12" WATER MAIN AND LINE TO METER PIT BY N.J. AMERICAN WATER CO.

(M1) NEW METER PIT BY N.J. AMERICAN WATER CO.

(P1) NEW 3" UNDERGROUND WATER SERVICE PIPE. – 700 LF

(P2) CAP END OF 3" PIPE.

(S3) SAW CUT AND REMOVE PAVEMENT, EXCAVATE, INSTALL PIPE, BACKFILL.

(V4) NEW 2" CURB VALVE 5'-0" OUTSIDE BUILDING WITH EXTENSION UP TO GRADE.

(P5) NEW 2" UNDERGROUND WATER SERVICE LINE INTO NEW OFFICE BUILDING UP THROUGH CRAWL SPACE INTO TELE/DATA ROOM. – 20 LF

KEYED ELECTRICAL NOTES: (WORK BY CONTRACTOR)

(R) CONTRACTOR TO REMOVE EXISTING NON-UTILITY WOOD POLES.

KEYED TELE/DATA NOTES: (WORK BY CONTRACTOR)

(TD) PROVIDE 2" CONDUIT AND PULL WIRE FROM 12' UP ON THE SERVICE POLE AND UNDERGROUND INTO THE BUILDING.

NOTE:
REFER TO DRAWING P1 FOR KEYED PLUMBING NOTES;
REFER TO DRAWING E2 FOR KEYED ELECTRICAL NOTES

N/F SAM & JEAN WEINSTEIN & MICHAEL REILLY

BLOCK 1501

LOT 9

Route 40/322 ½

Existing R.O.W. Line

330

329

328

44.75'

PT. #100 = 32Ft. ± (MEASURED) PT. #100 = 32Ft. ± (MEASURED) N.J.D.O.T. Mon.(Fd.) Elev.=72.51

SITE UTILITY PLAN

SCALE: 1" = 40'

SITE PLAN WAS BASED ON INFORMATION FROM A SURVEY BY NJDOT SURVEY SOUTH 1 EXECUTIVE CAMPUS RTE 70 WEST CHERRY HILL, NJ. 08002 FIELDBOOK H-137 CADD FILENAME : MYARD.DGN DIR : FIELDSURVEY/FBSSSSSS/

1" = 40'

30' 20' 10' 0 30' 60'

K.D. ZEULI, INC. CONTRACTORS

PROJECT: MCKEE CITY MAINTENANCE YARD

TRADE

Sample Submitted

Shop Drawings

Submittal is for compliance with original design concept

Contractor has verified field measurements/conditions

Contractor shall verify field measurements/conditions

APPROVED BY DATE 2020

6016 BLACK HORSE PIKE

NEW OFFICE BUILDING
NJDOT MCKEE CITY MAINTENANCE YARD
EGG HARBOR TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY
PROJECT NO. T0593-00

SITE UTILITY PLAN

SUBMISSION	BY	DATE
FINAL	LC	07/26/18
FINAL 2	LC	08/13/18
FINAL 3	LC	01/28/19
FINAL 4	DC	07/10/19
PERMIT/BID	DC	01/17/19

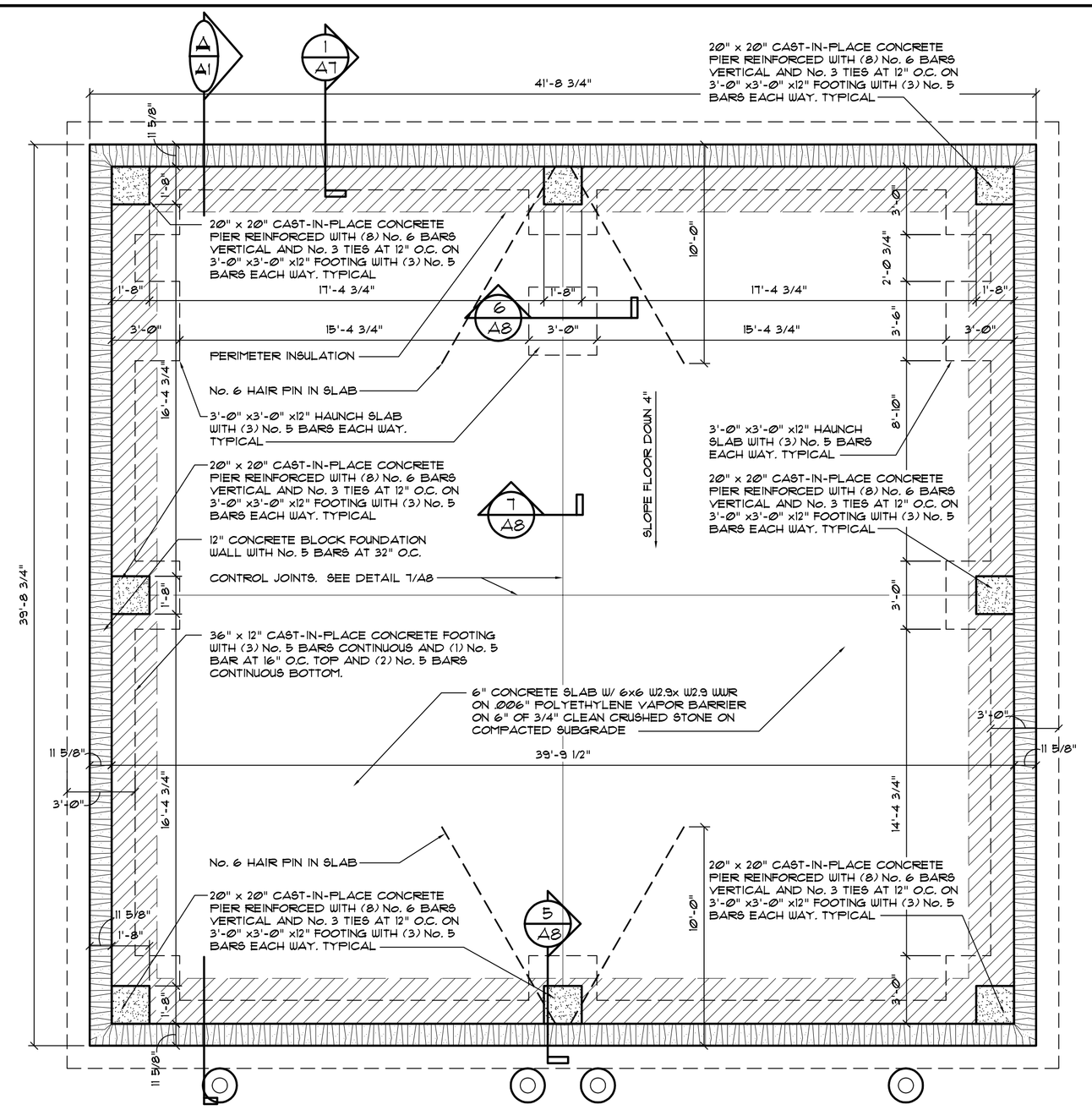
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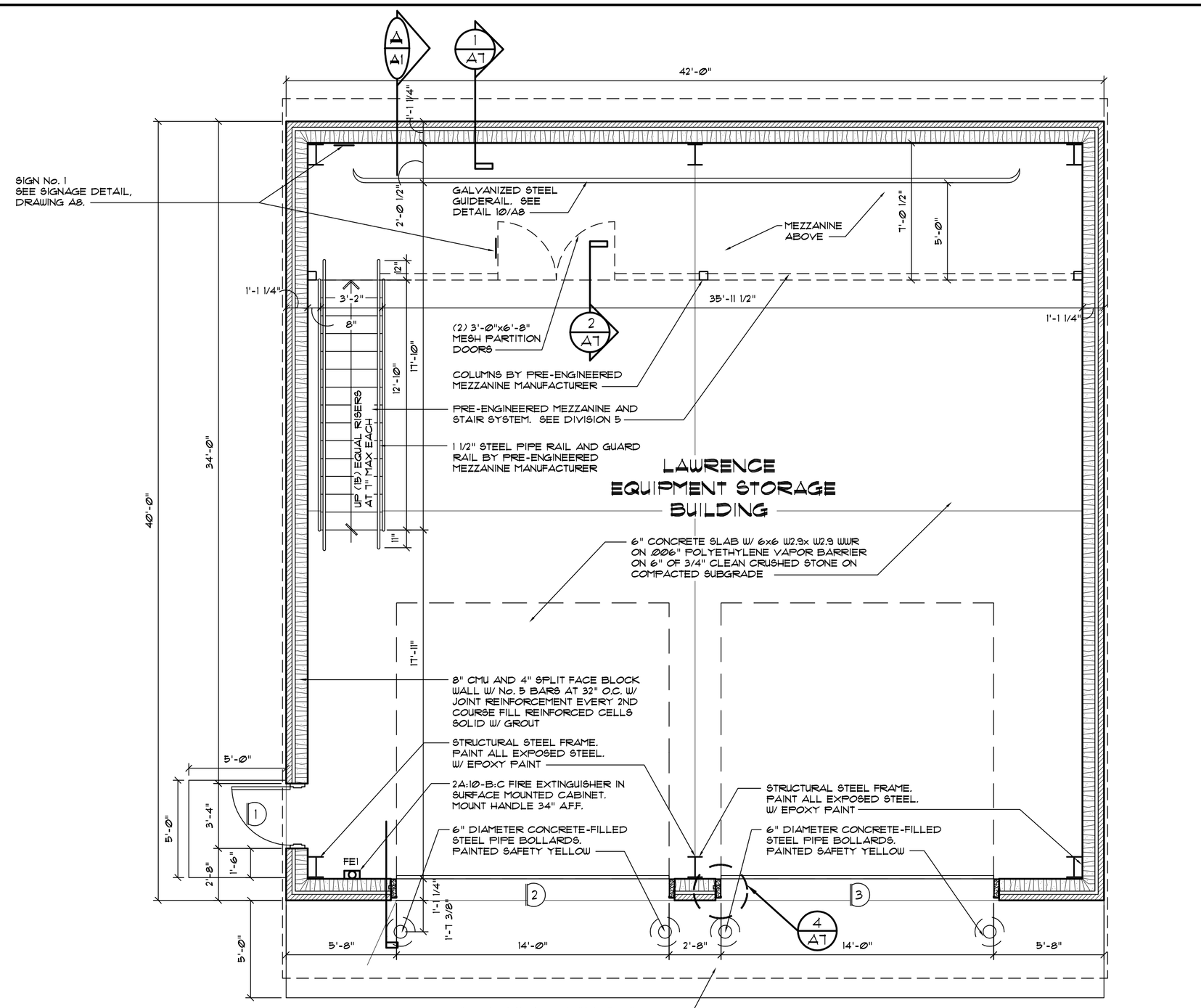
SU1

EXHIBIT 'F'



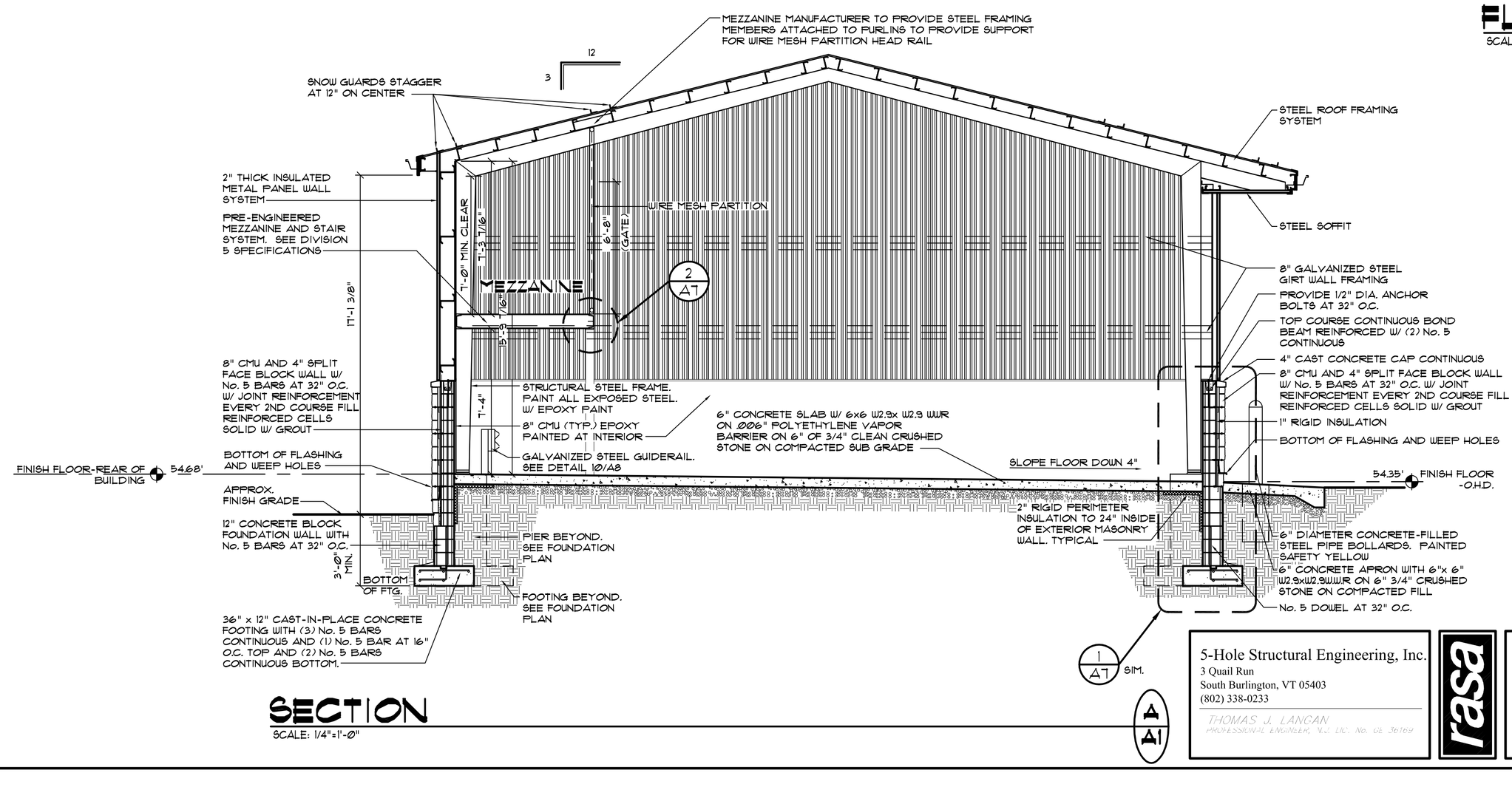
FOUNDATION PLAN

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



FLOOR PLAN

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



SECTION

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

DESIGN LOAD CRITERIA

DESIGN ROOF LIVE LOAD:	20 PSF
GROUND SNOW LOAD:	30 PSF
ROOF SNOW LOAD:	21 PSF
COLLATERAL LOAD:	5 PSF
BUILDING DEAD LOAD:	DETERMINED BY BLDG MANUFACTURER
FLOOR LIVE LOAD:	250 PSF
MEZZANINE LIVE LOAD:	125 PSF
WIRE MESH PARTITIONS:	5 PSF APPLIED HORIZONTAL
SOIL BEARING CAPACITY:	3,000 PSF
COMPONENTS AND CLADDING:	28.64 PSF
WIND SPEED:	95 MPH
EXPOSURE CATEGORY:	C
IMPORTANCE FACTOR:	1.0
SEISMIC SITE CLASS:	D
SEISMIC LOAD:	
S_S:	0.028
S_1:	0.061

NOTE:

REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT WEIGHTS SUPPORTED BY METAL BUILDING

SLAB WAS DESIGNED FOR A LIGHT TRUCK LOAD OF 15,000 LBS

STRUCTURAL CALCULATIONS FOR THE BUILDING, IN ACCORDANCE WITH ICC CHAPTER 16, SHALL BE SUBMITTED TO THE NEW JERSEY STATE, OFFICE OF CONSTRUCTION SERVICES, FOR REVIEW AND APPROVAL, PRIOR TO THE BUILDING'S ERECTION. THE CALCULATIONS SHALL DISPLAY THE RAISED SEAL AND SIGNATURE OF AN ARCHITECT OR ENGINEER LICENSED IN THE STATE OF NEW JERSEY.

BUILDING CRITERIA

USE GROUP:	S-1
CONSTRUCTION CLASSIFICATION:	IIB NON-COMBUSTIBLE UNPROTECTED
BUILDING HEIGHT:	1-STORY, 18'-8"
AREA:	1,680 S.F.
MEZZANINE AREA:	2803 S.F.
VOLUME:	32,466 C.F.

DOT EQUIPMENT STORAGE BUILDINGS
LAWRENCE, DEPTFORD AND POMONA
PROJECT No. T0496-00

FOUNDATION PLAN, FLOOR PLAN, AND SECTION
LAWRENCE

SUBMISSION	BY	DATE
DESIGN DEV.	AFC	07/25/13
FINAL DESIGN	AFC	11/25/13
FINAL 2	AFC	02/12/14
FINAL 3	AFC	03/12/14
PERMIT	AFC	04/15/14

SONNENFELD & TROCCHIA ARCHITECTS, P.A.
53 MAIN STREET
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(732) 946-7777 FAX 946-7474 E-MAIL mailbox@st-architects.com

GREGG S. SONNENFELD, ARCHITECT AI10817

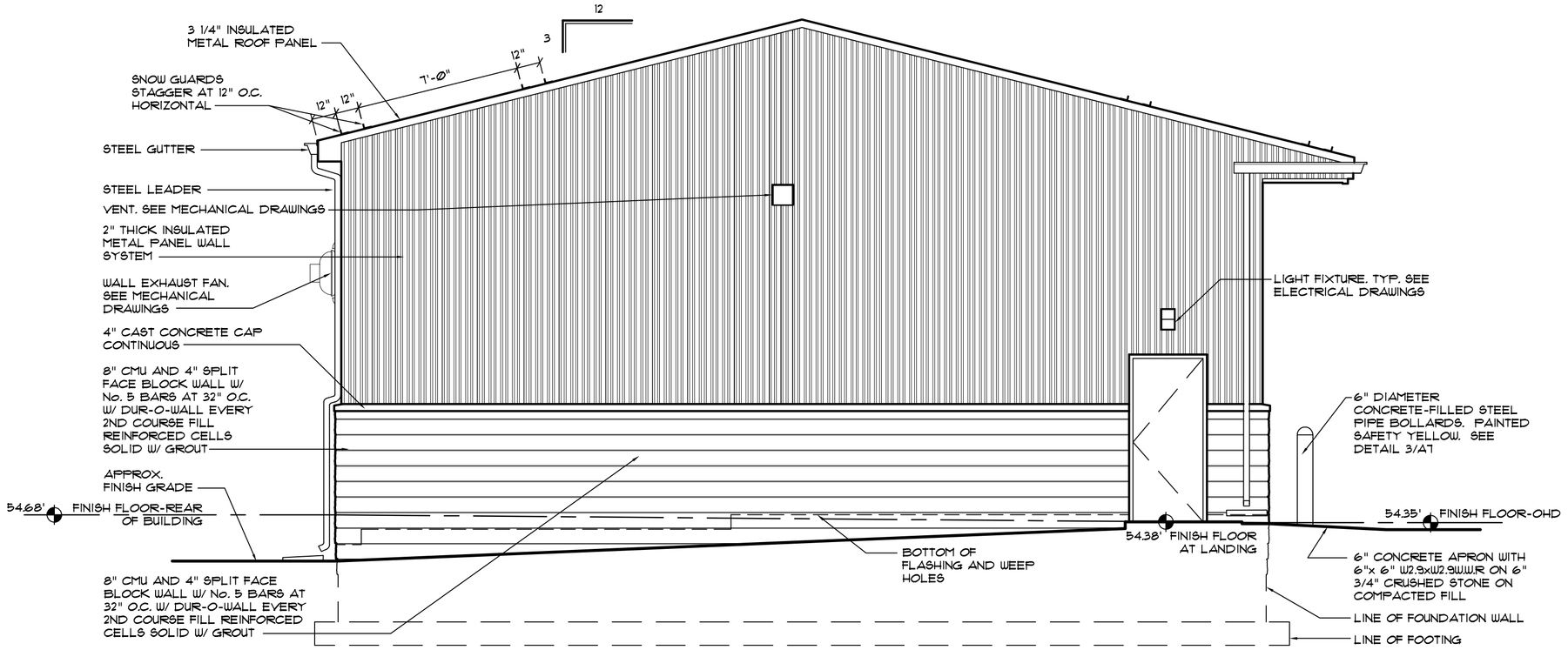
A1

5-Hole Structural Engineering, Inc.
3 Quail Run
South Burlington, VT 05403
(802) 338-0233
THOMAS J. LANGAN
PROFESSIONAL ENGINEER, N.J. LIC. No. GE 36169

rasa

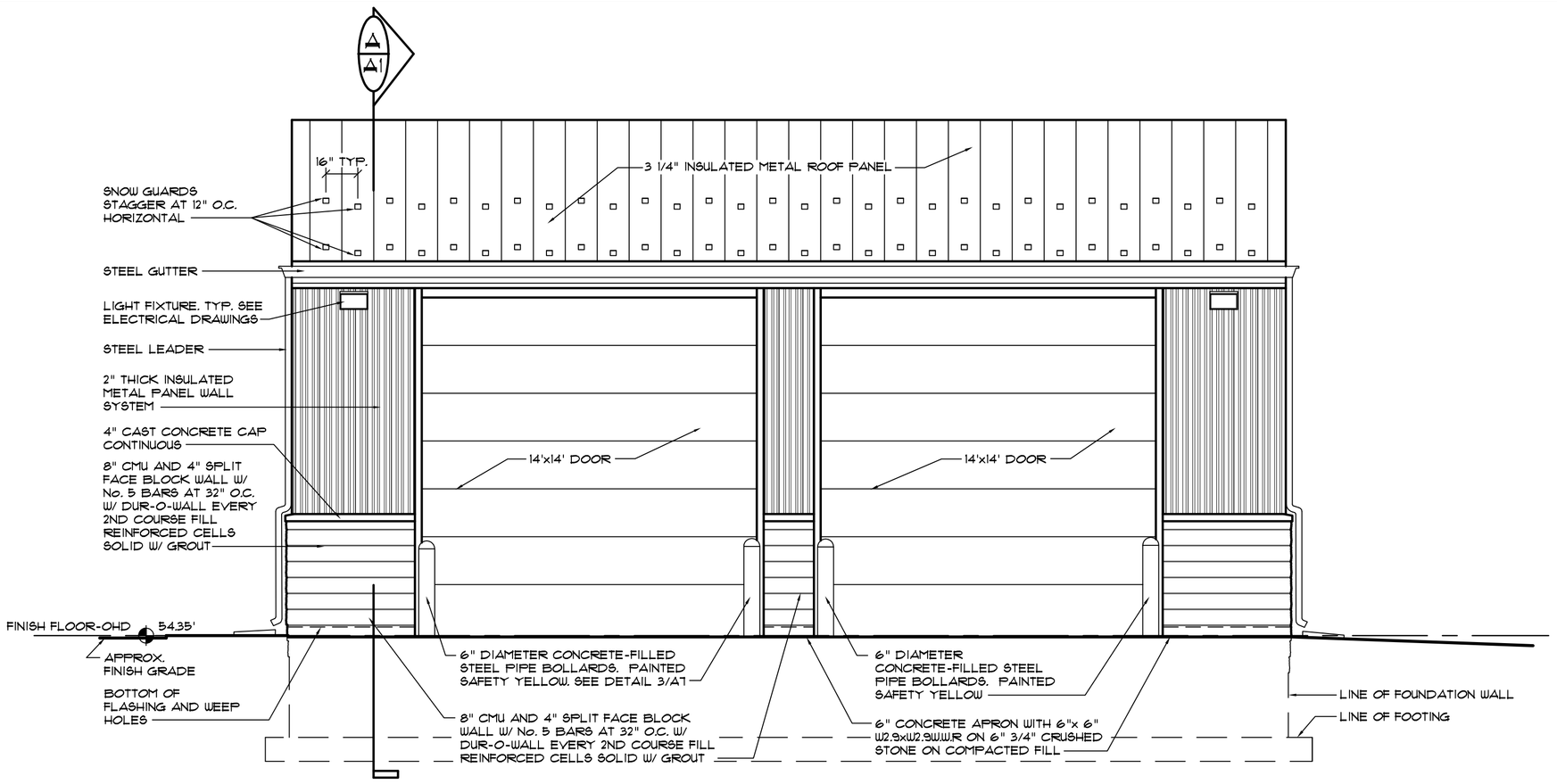
CONSULTING ARCHITECT
RONALD A. SEBRING ASSOCIATES, LLC
ARCHITECTURE – PLANNING – DESIGN
405 RICHMOND AVENUE
POINT PLEASANT BEACH, NEW JERSEY 08742
(732) 701-9444 FAX 701-9919 E-MAIL ARCHITECTS@RASALLC.COM

EXHIBIT 'F'



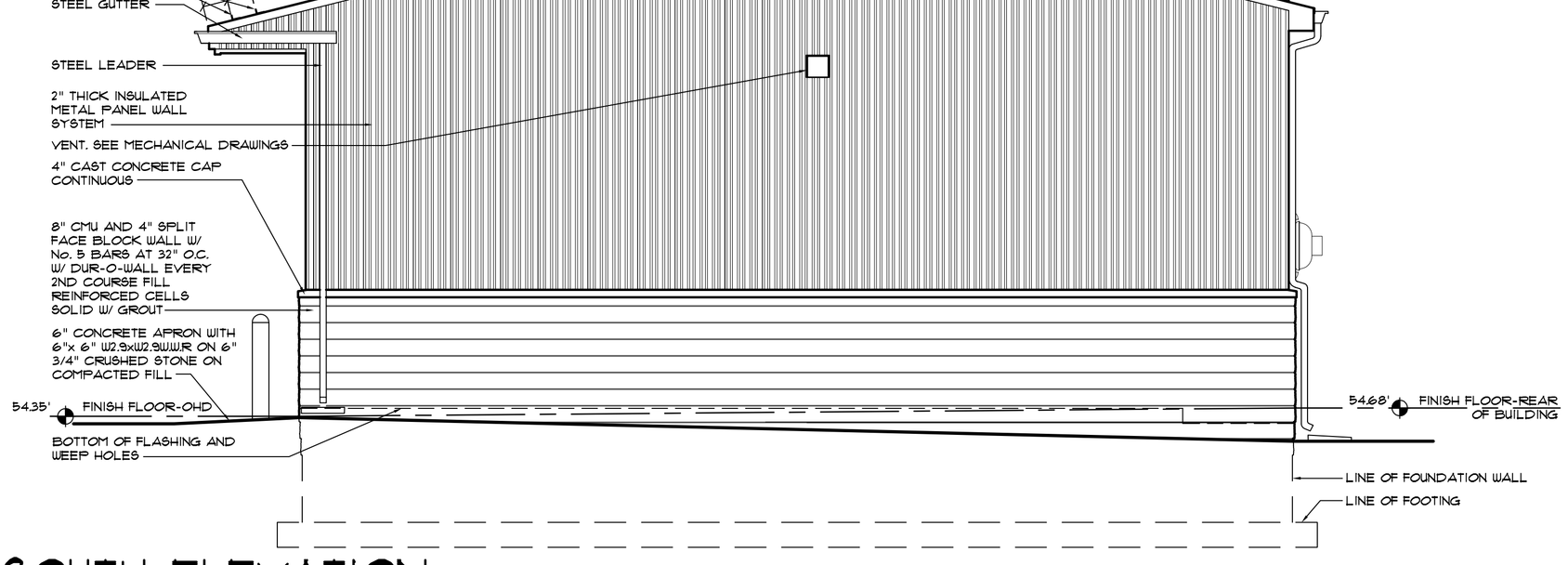
NORTH ELEVATION

SCALE: 1/4"=1'-Ø"



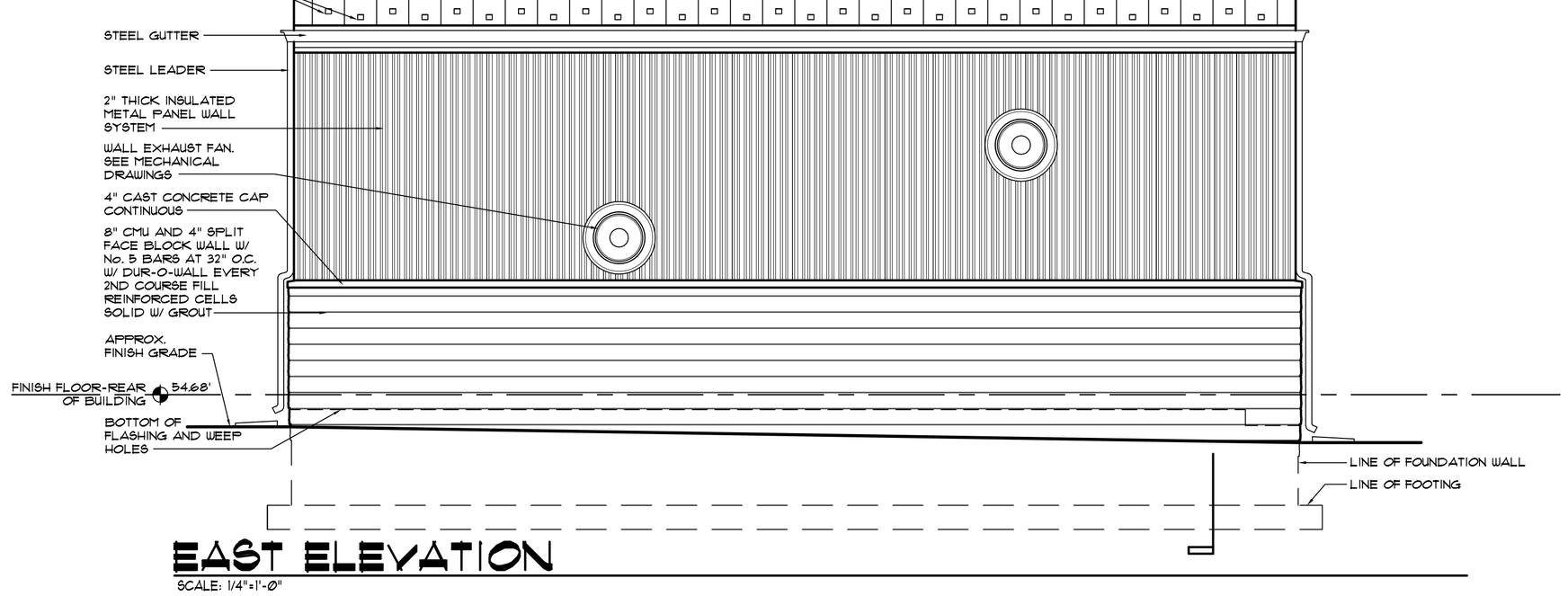
WEST ELEVATION

SCALE: 1/4"=1'-Ø"



SOUTH ELEVATION

SCALE: 1/4"=1'-Ø"



EAST ELEVATION

SCALE: 1/4"=1'-Ø"

DOT EQUIPMENT STORAGE BUILDINGS
LAWRENCE, DEPTFORD AND POMONA
PROJECT No. T0496-00

ELEVATIONS AND SECTION
LAWRENCE

SUBMISSION	BY	DATE
DESIGN DEV.	AFC	Ø1/25/13
FINAL DESIGN	AFC	11/2Ø/13
FINAL 2	AFC	Ø2/12/14
FINAL 3	AFC	Ø3/12/14
PERMIT	AFC	Ø4/15/14

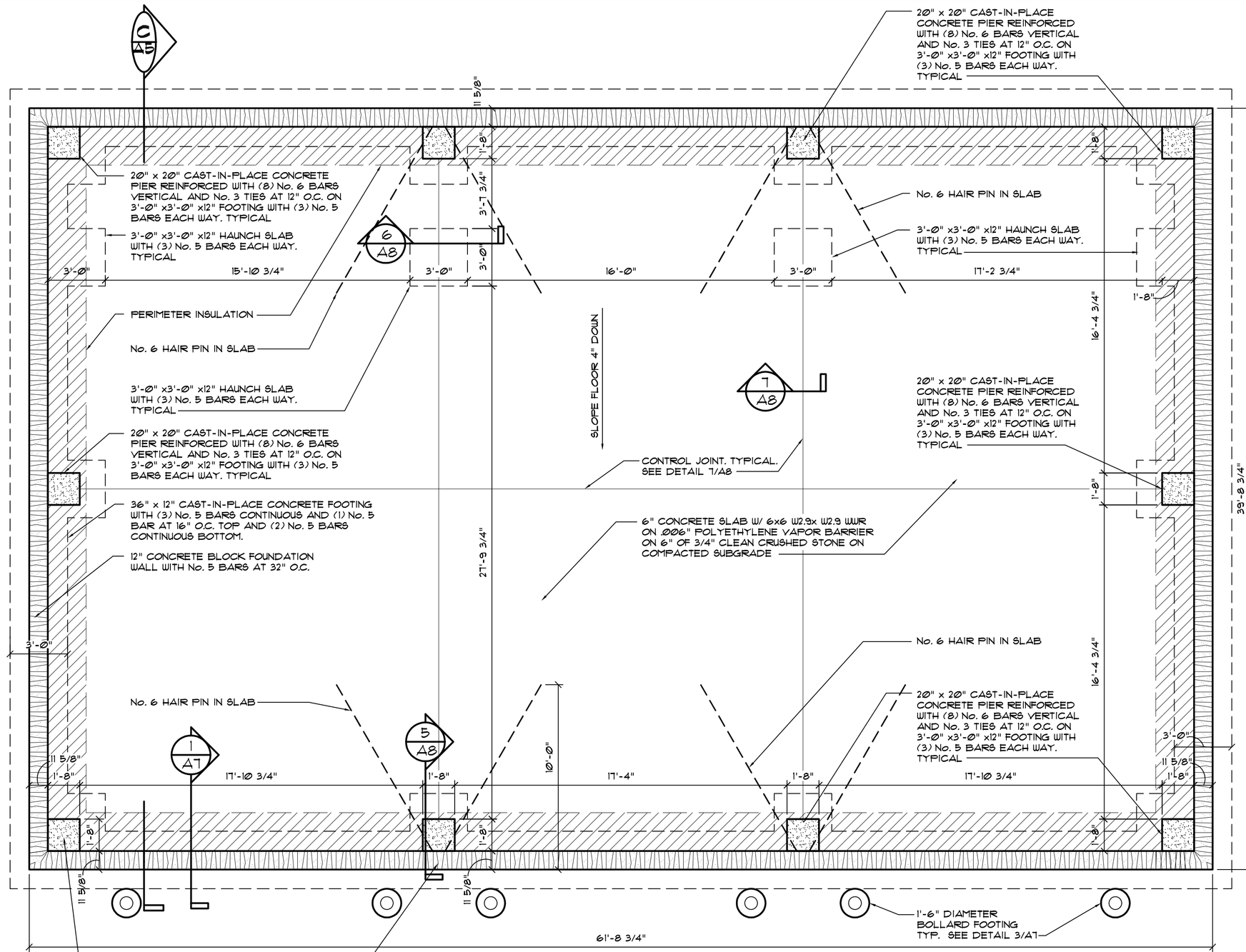
rasa
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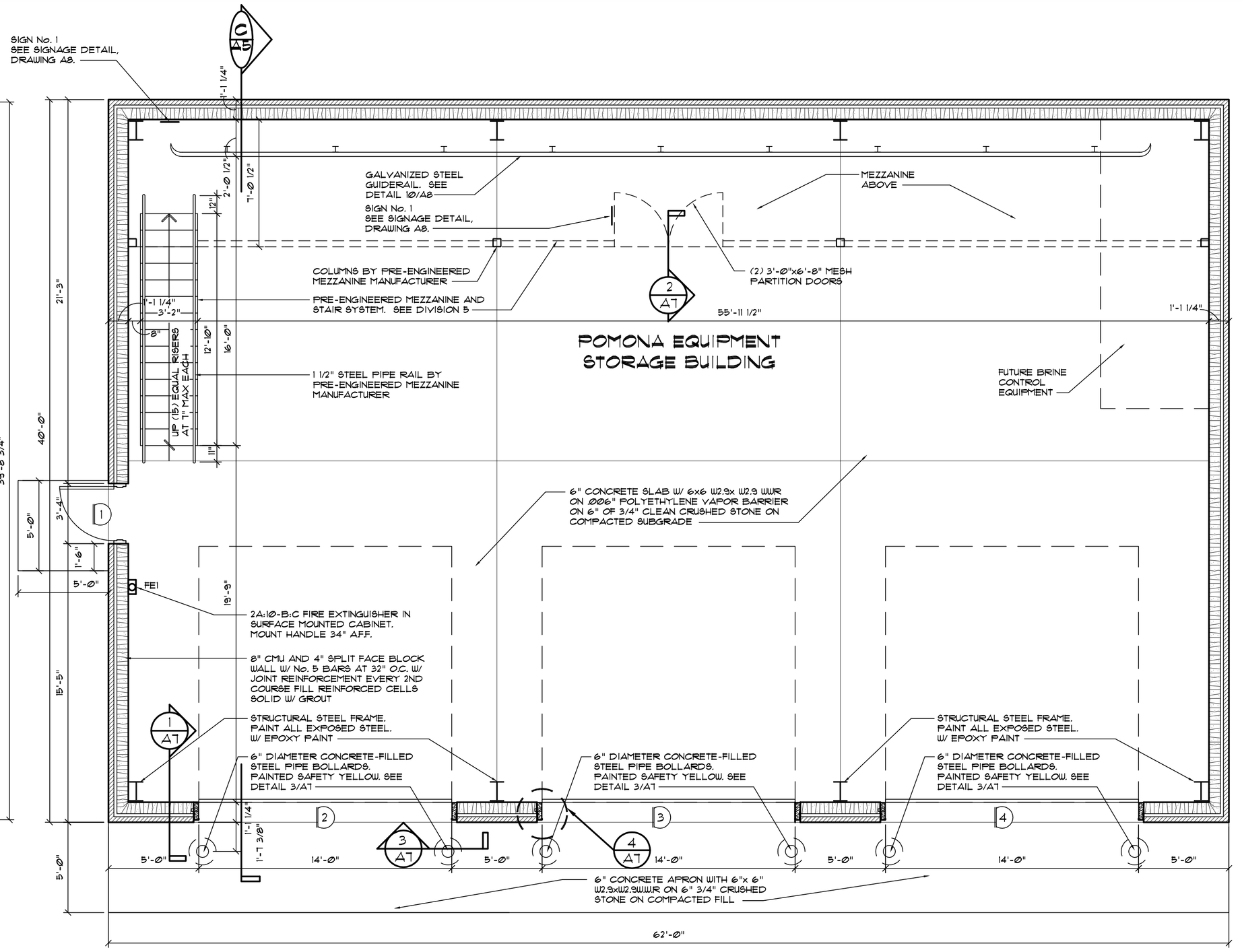
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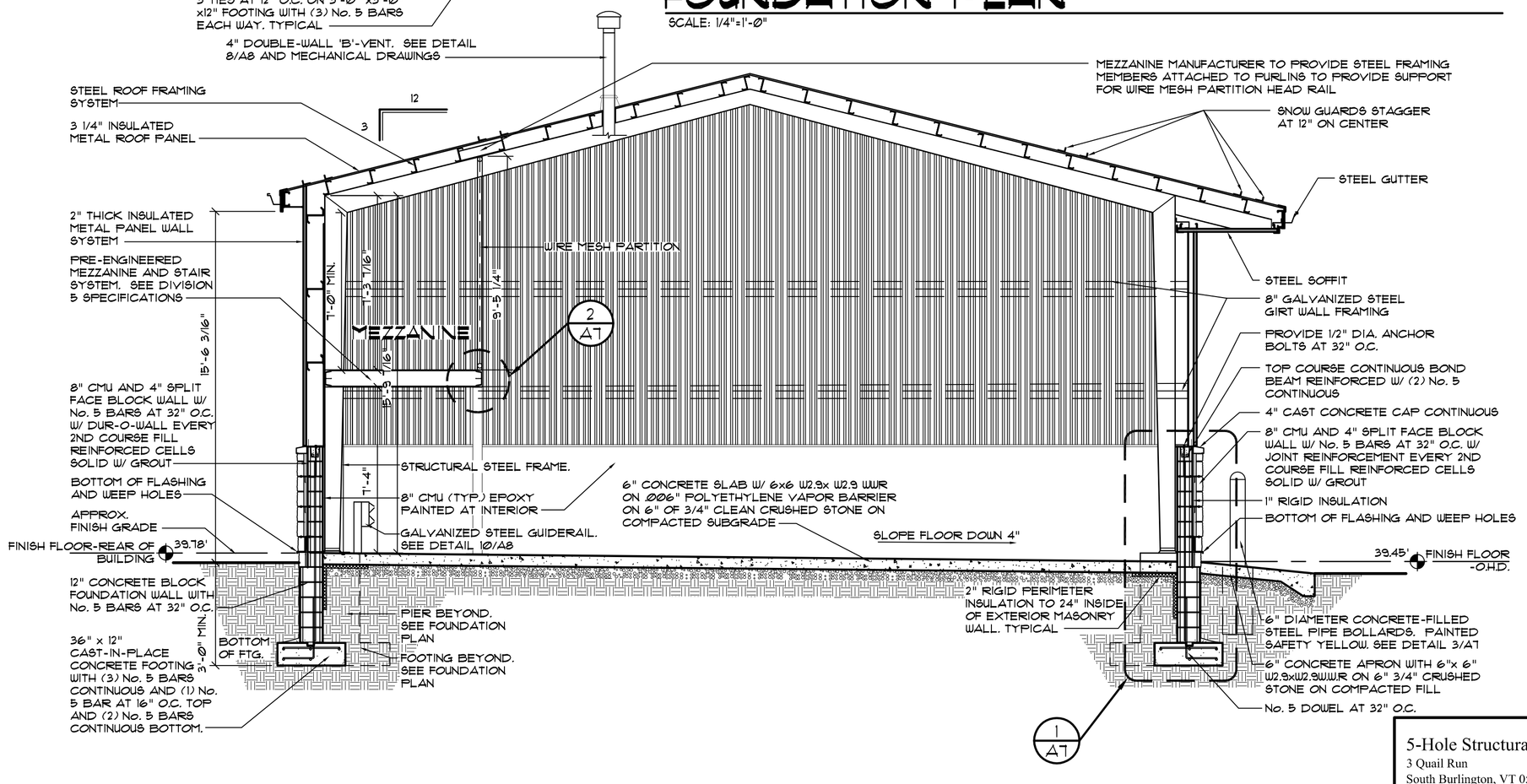
FOUNDATION PLAN

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



FLOOR PLAN

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



SECTION

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

DESIGN LOAD CRITERIA

DESIGN ROOF LIVE LOAD:	20 PSF
GROUND SNOW LOAD:	20 PSF
ROOF SNOW LOAD:	14 PSF
COLLATERAL LOAD:	5 PSF
BUILDING DEAD LOAD:	DETERMINED BY BLDG MANUFACTURER
FLOOR LIVE LOAD:	250 PSF
MEZZANINE LIVE LOAD:	125 PSF
WIRE MESH PARTITIONS:	5 PSF APPLIED HORIZONTAL
SOIL BEARING CAPACITY:	3,000 PSF
COMPONENTS AND CLADDING:	41.97 PSF
WIND SPEED:	115 MPH
EXPOSURE CATEGORY:	C
IMPORTANCE FACTOR:	1.0
SEISMIC SITE CLASS:	D
SEISMIC LOAD:	
SS:	0.018
S1:	0.052

NOTE:

REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT WEIGHTS SUPPORTED BY METAL BUILDING

SLAB WAS DESIGNED FOR A LIGHT TRUCK LOAD OF 15,000 LBS

STRUCTURAL CALCULATIONS FOR THE BUILDING, IN ACCORDANCE WITH ICC CHAPTER 16, SHALL BE SUBMITTED TO THE NEW JERSEY STATE OFFICE OF CONSTRUCTION SERVICES, FOR REVIEW AND APPROVAL, PRIOR TO THE BUILDING'S ERECTION. THE CALCULATIONS SHALL DISPLAY THE RAISED SEAL AND SIGNATURE OF AN ARCHITECT OR ENGINEER LICENSED IN THE STATE OF NEW JERSEY.

BUILDING CRITERIA

USE GROUP:	S-1
CONSTRUCTION CLASSIFICATION:	IIB NON-COMBUSTIBLE UNPROTECTED
BUILDING HEIGHT:	1-STORY, 18'-8"
AREA:	2,480 S.F.
MEZZANINE AREA:	415.16 S.F.
VOLUME:	44,516 C.F.

DOT EQUIPMENT STORAGE BUILDINGS
LAWRENCE, DEPTFORD AND POMONA
PROJECT No. T0496-00

FOUNDATION PLAN AND FLOOR PLAN
POMONA

SUBMISSION	BY	DATE
DESIGN DEV.	AFC	06/26/13
FINAL DESIGN	AFC	11/25/13
FINAL 2	AFC	02/12/14
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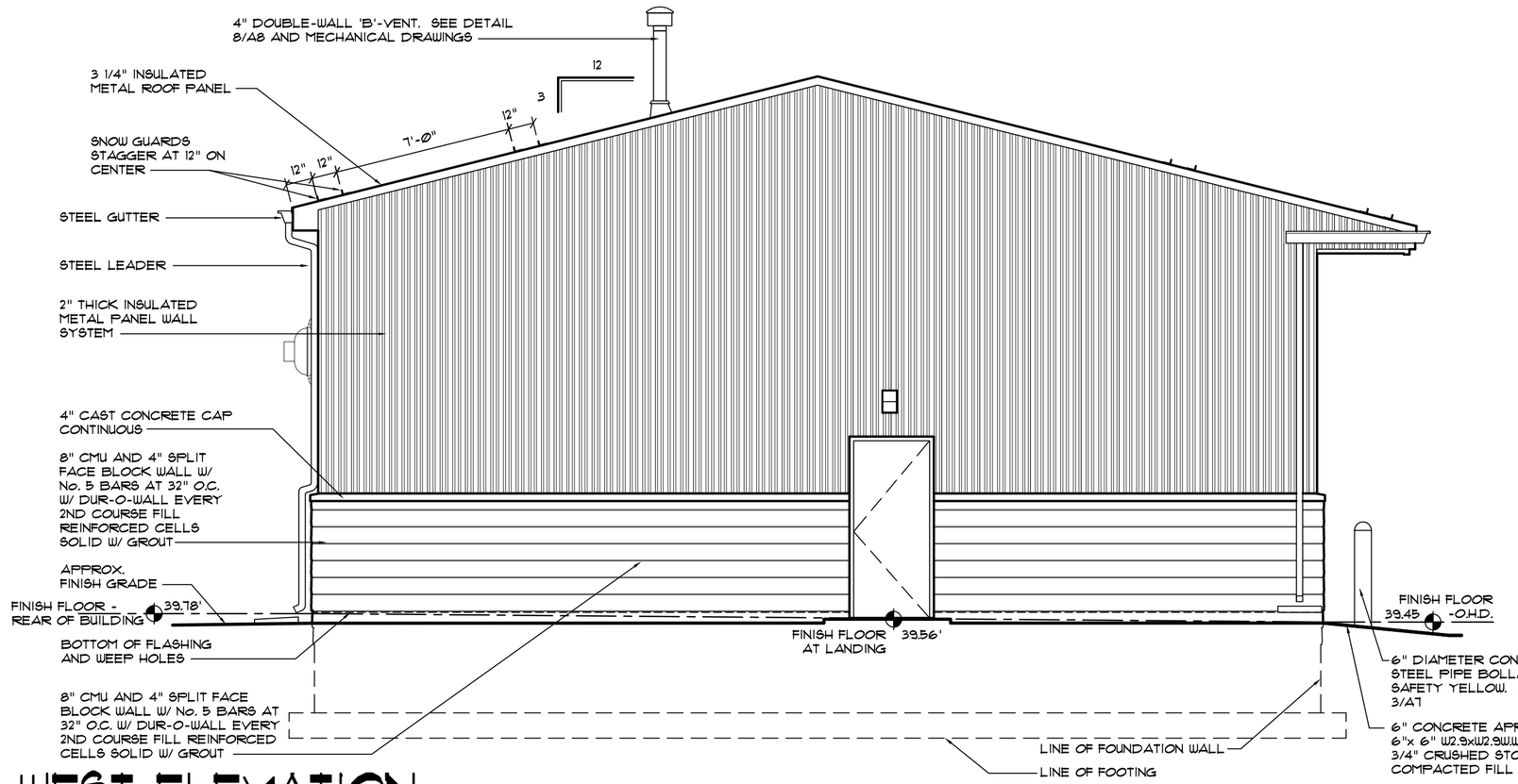
CONSULTING ARCHITECT
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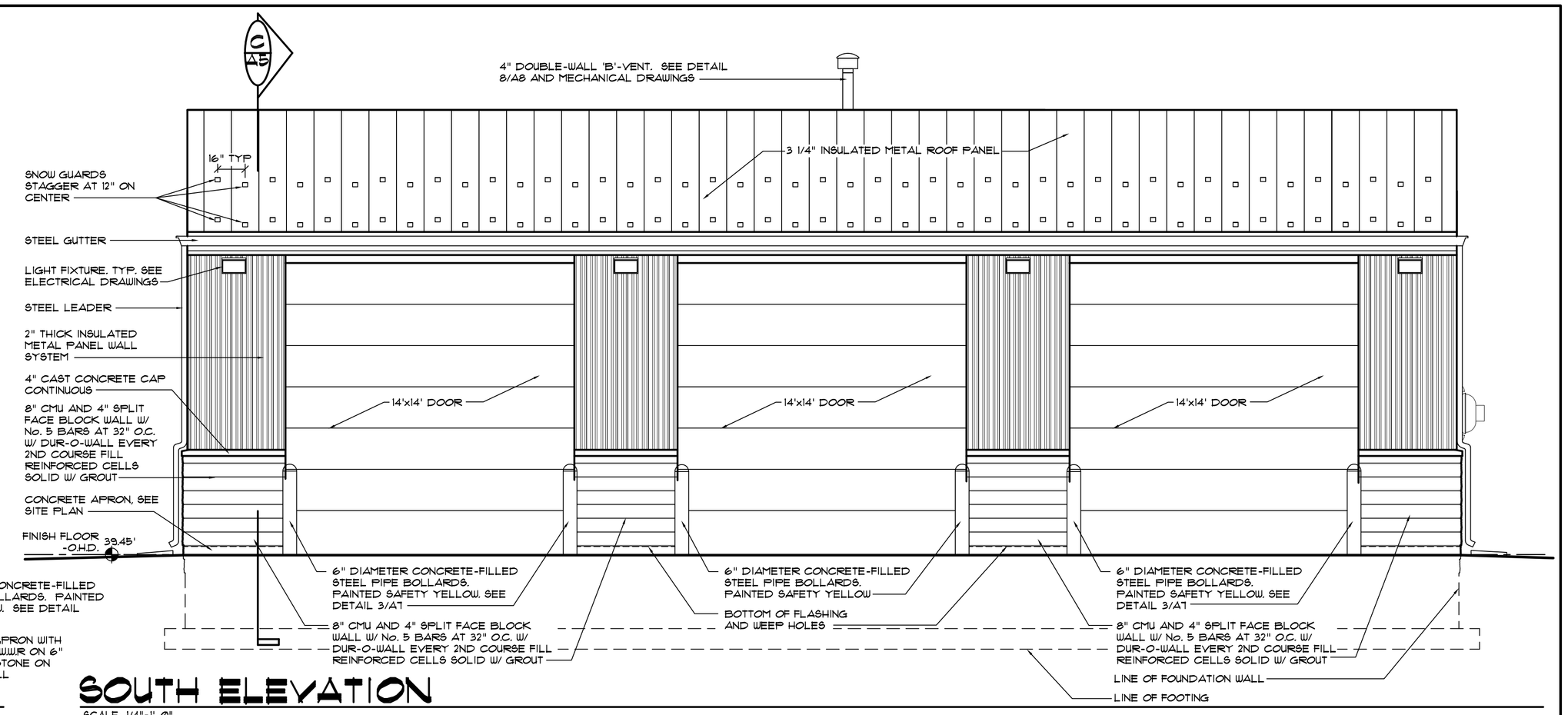
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EXHIBIT 'F'



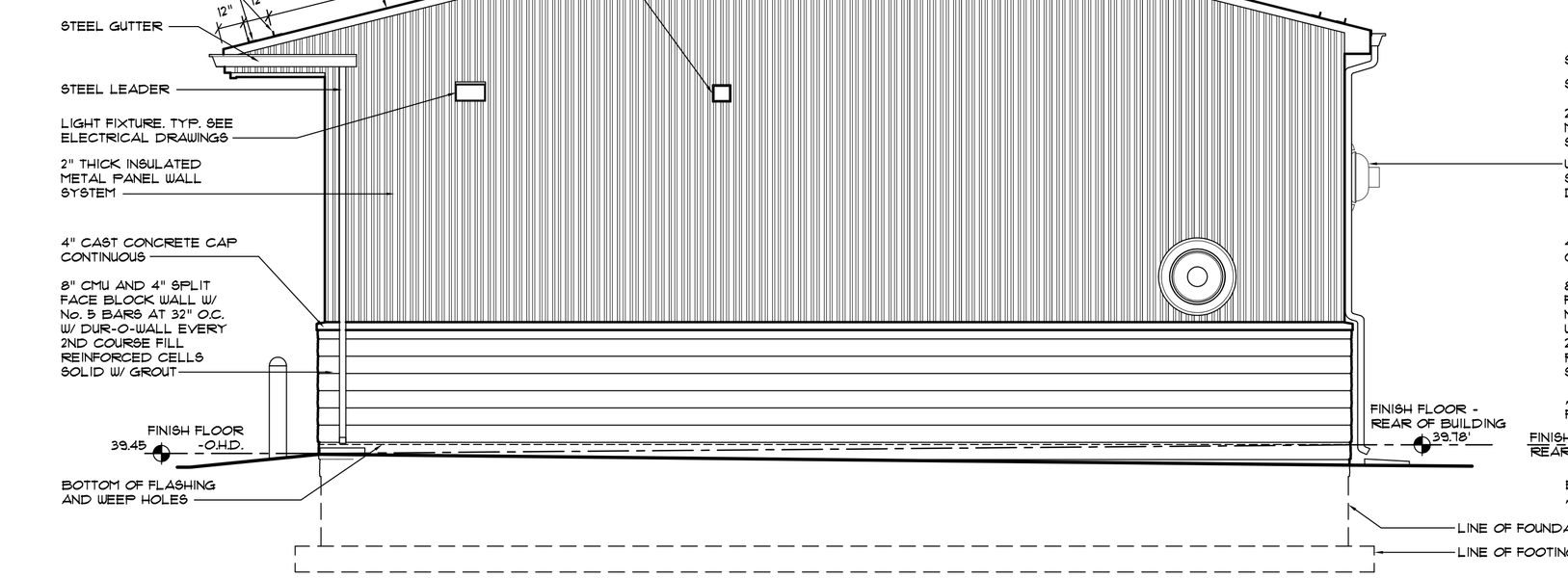
WEST ELEVATION

SCALE: 1/4"=1'-Ø"



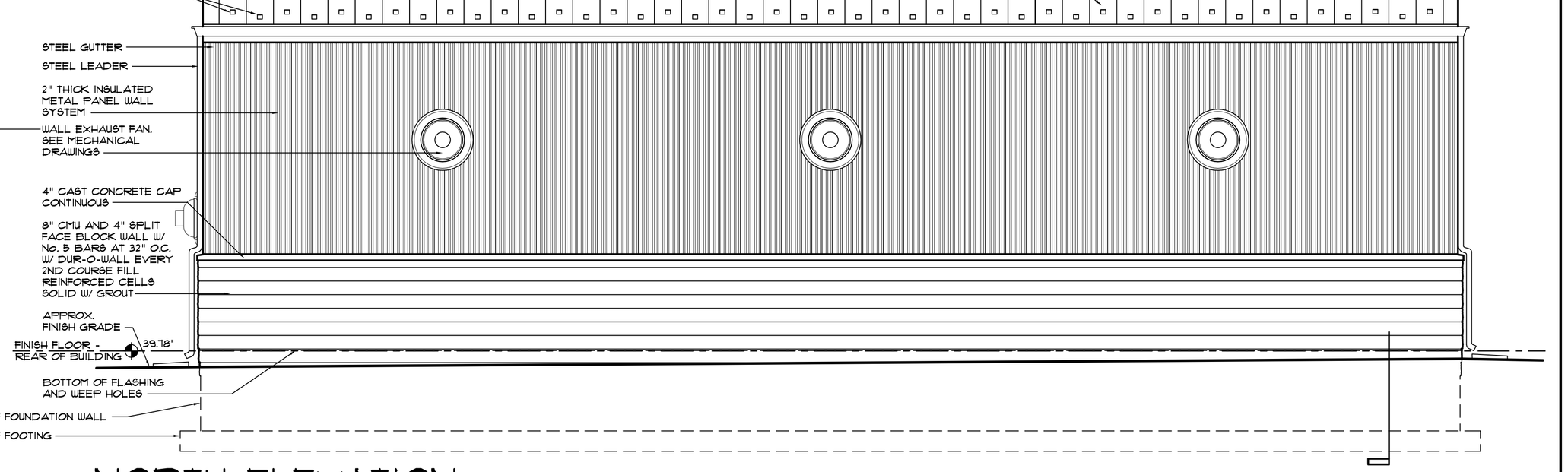
SOUTH ELEVATION

SCALE: 1/4"=1'-Ø"



EAST ELEVATION

SCALE: 1/4"=1'-Ø"



NORTH ELEVATION

SCALE: 1/4"=1'-Ø"

DOT EQUIPMENT STORAGE BUILDINGS
LAWRENCE, DEPTFORD AND POMONA
PROJECT No. T0496-00

ELEVATIONS AND SECTION
POMONA

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rasa
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GREGG S. SONNENFELD, ARCHITECT AI10817

A6