



ARCHITECTS CLIENT FOCUSED. PASSION DRIVEN.

May 21, 2019

TO : All Bidders
FROM : James P. DiCamillo
PROJECT : Rowland High School New Custodial Building
1619700.41
SUBJECT : Addendum 1
DSA : 03-119243 / 19-H54

The following changes, omissions, and/or additions to the Project Manual and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Project Manual, and this Addendum, this Addendum shall govern.

1. GENERAL

- 1.1 Refer to the attached document by Ledesma & Meyer Construction Co., Inc. dated May 21, 2019.

PROJECT MANUAL

- 1.2 SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS
 - A. Remove this section in its entirety and replace with the attached Section 01 50 00.

DRAWINGS

Architectural

- 1.3 Replace the following drawings with the attached revised drawings marked with Delta 1.
 - A. A1.2 - Enlarged Partial Site Plans.

- B. A2.1 - Floor, Reflected Ceiling, Roof and Enlarged Plans.
- C. 10.1 - Specialty Details and Schedules.

Civil

- 1.4 Replace the following drawings with the attached revised drawings marked with Delta 1.
 - A. C0.02 - Abbreviations, Legend and Notes
 - B. C2.01 - Precise Grading Plan
 - C. C3.01 - Utility Plan
 - D. C4.01 - Improvement Plan Details

Structural

- 1.5 Replace the following drawings with the attached revised drawings marked with Delta 1.
 - A. S1.2 - Typical Details
 - B. S2.1 - Foundation Reflected Ceiling & Roof Framing Plans
 - C. S7.1 - Details

Mechanical/ Plumbing

- 1.6 Replace the following drawings with the attached revised drawings marked with Delta 1.
 - A. M2.1 - Mechanical Floor Plan and Roof Plan
 - B. M7.1 - Mechanical Details
 - C. P0.2 - Plumbing Schedules
 - D. P2.1 - Plumbing Floor Plan & Roof Plan
 - E. P3.1 - Plumbing Details

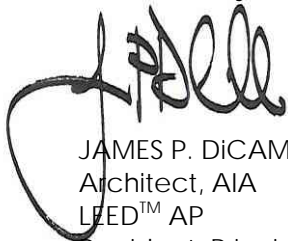
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Electrical

- 1.7 Replace the following drawings with the attached revised drawings marked with Delta 1.
- A. E0.1 - Electrical Symbols and General Notes
 - B. E1.1 - Power Site Plan
 - C. E1.2 - Signal Site Plan
 - D. E2.1 - Lighting and Power Floor Plan

END OF ADDENDUM 1

Submitted by,



JAMES P. DiCAMILLO
Architect, AIA
LEED™ AP
President, Principal



JPD:SA:hb/P41619700x1-add

Attachments: Document by Ledesma & Meyer Construction Co., Inc. dated May 21, 2019
Section 01 50 00 - Temporary Facilities and Controls
A1.2, A2.1, 10.1, C0.02, C2.01, C3.01, C4.01, S1.2, S2.1, S7.1, M2.1, M7.1, P0.2, P2.1,
P3.1, E0.1, E1.1, E1.2, E2.1

Tuesday, May 21, 2019

Item 1.1 – FRONT END CONTRACT DOCUMENTS

- 1.1 Reference the Front-End Contract Documents, Notice Calling For Bids, Paragraph 5, Documents Accompanying Bid Proposal. Revise the list of required documents to read as follows;**

Bid Security	Verification of Pre-Qualification Application Information
Subcontractors List	DIR Registration Verification
Non-Collusion Affidavit	

- 1.2 Reference the Front-End Contract Documents, Bid Proposal, Paragraph 2, Documents Accompanying Bid Proposal. Revise the list of required documents to read as follows;**

Bid Security	Verification of Pre-Qualification Application Information
Subcontractors List	DIR Registration Verification
Non-Collusion Affidavit	

Item 1.3 - NOTIFICATION TO CONTRACTOR OF PROJECT SPECIAL NEEDS AND/OR REQUIREMENTS

Contractor is hereby advised that during the construction of this Project, the campus will be an active campus with classes in session and administrative personnel working between the hours of 7:00 a.m. and 4:00 p.m., Monday through Friday. Contractors Bid shall include all costs necessary to address and resolve the following conditions during the project:

1. Project Schedule attached hereto as **Attachment A**. No deviations or revisions will be accepted or considered and the Bidder's submission of a Bid Proposal for this Project shall be deemed and constitute Contractor's acceptance of the project schedule. Any attempt by Bidder to deviate from or revise the Project Schedule shall result in Bidder's Bid Proposal deemed non-responsive. This Project Schedule shall be the basis for the contract requirements of Specification Section 01 32 17 Construction Schedule.

2. As the school campus will be active, Contractor shall provide for the continuous operation of all on-site utilities (wet and dry). No interruption of the facilities shall be permitted. Contractor shall employ his means and methods as to resolving this condition and all means and methods for maintaining the continuous operation shall be at the Contractor's sole expense.
3. Since the campus will be active during the Project duration, the Contractor shall allow for all conditions and costs that may arise in the storage and/or placement of the spoils created from the trenching and earthwork activities. Placement of large amounts of earth and spoils in areas during shall be approved by the Construction Manager. Any and all hauling of these spoils shall be at the Contractor's sole expense.
4. The attached "Contractor Work Scope" hereto as **Attachment B** is composed of 67 Work Scope items. All costs associated with the items listed in the attached Work Scope shall be included in the Contractor's bid proposal.
5. Contractor shall include a **\$80,000.00** Cash Allowance into the base bid. Cash allowances shall be "NET" cost amounts. The contractor shall include all cost associated with the processing of items that may be charged against the designated allowance amount including estimating, project management, supervision, withholding of retention, overhead, profit and bond costs in their base bid. The only allowable markup shall be at 10% overhead and profit fee by any subcontractor that may perform work (labor) submitted under the General Contractor. The General Contractor shall receive no additional markups. If any allowance amount (in whole or part) is deleted by change order at any given point of the project, the General Contractor shall credit back the full or unused portion of the allowance amount stipulated. The general contractor shall not be entitled to withhold any monies for overhead or profit or be obligated to return any overhead or profit included in the base bid. The use of any allowances is at the sole discretion of the Construction Manager.

Rowland High School - Custodian Compound Project Schedule

Task	DUR.	June	July	Aug	Sept	Oct	Nov	Dec	January
Mobilization and Temp Fencing - June 19 - July 3	10								
Sawcuttiing and demo of Asphalt/Flatwork - July 3 - July 24th	15								
Grading and Excavation - July 24th - August 9th	12								
Building Foundations/Footings August 12 - Agust 23	10								
Rebar August 23 - August 30	5								
Underground Utlities - POC August 30 - September 20	10								
Place footings - Building August 30 - September 10	7								
Block/Retaining Walls August 26th - September 6	10								
Building Flatwork September 11 - 13	2								
Building Framing September 10 - October 8	20								
Roofing October 8 - October 14	5								
Exterior Finishes October 14 - November 9	20								
Interior Framing and Finishes October 21 - December 6	35								
Site Flatwork	10								
Fencing and Gates	15								
Construction Complete Begin Punch December 06.	10								
Closeout									

Rowland High School - Custodion Compound Contractor Work Scope Special Conditions

1	Contractor shall be responsible to furnish all labor and materials to install work as shown on the Contract Documents
2	Contractor shall maintain an adequate and safe access in and out site . This shall include BMP/s to avoid any Track out.
3	Contractor shall maintain all utilities to the rest of the site during construction as not to disrupt other buildings. If any damage incurs it will be the Contractors resbonsibility to repair and pay for all damages.
4	Provide all labor and materials for concrete and Asphalt paving per the Contract Documents. This shall include all excavation and compaction as required.
5	Contractor to provide and install all Bollards. This includes any footings and rebar as required by the Contract Documents
6	Contractor to provide and install all splash blocks at areas shown on the Contract Documents
7	Contractor shall provide and install all fencing and gates. This shall include all the required hardware for complete and operational gates. This shall also include any modifications required from existing fencing and/or gates to attach to new.
8	Contractor shall remove the Petro-Mat under existing Asphalt if located. Contractor is responsible to properly demo and dispose of said material at no additional cost. See additional requirments on line Item #66.
9	Contractor shall demo and dispose of the existing block retaining wall as shown on the Contract Drawings. This shall include any saftey precautions required to maintain existng conditions that is not called to be demoed. Any damages to adjacent areas or areas damaged by this work will be the Contractors responsibility to repair. This shall also include any Special Permits that may be required.
10	Contractor shall furnish and install driven post and fencing with Windscreen where the exising retaining/block wall is called out to be demoed in between the adjacent Housings and yards. This shall include replacing or repairing any damage to stuctures or landscaping.
11	Contractor shall furnish and maintain all Temporary fencing, barricades E.T.C, as required to protect and safe off all work.
12	The words Demo and/or Remove on the Contract Documents shall include all proper hauling and disposing of. This shall include any and all additional requirments that may be needed to dispose of materials/debris as necessary. Contractor shall be responsible for any additiional fees if required.
13	Contractor shall provide and install all Signage per the Contract Documents
14	Contractor shall provide and install the (2) Ceiling mounted fans per the Contract Documents
15	Contractor shall provide and install All Restroom Accessories Per the Contract Documents. This shall include but not limited to, Handrails, Hand Dryers, all dispensers and Mirrors.
16	Contractor shall provide and install all Door and Window frames. This shall include all the required Hardware and Glazing per the Contract Documents
17	Contractor shall provide and install all the required Sill Plate Anchors and Bolts or any other Hardware as required. This shall include the Proper layout as required by the Contract Documents.
18	Contractor shall provide and install all Gutters/Downspouts as required. This shall include Splash Blocks as required per the Contract Documents.

19	Contractor is responsible for any Housekeeping pads that is required per the Contract Documents.
20	Contractor shall furnish and install all the required rough in Plumbing per the Contract Documents. It is the Contractors responsibility to verify all Plumbing connections and drains work properly. Contractor to notify the Construction Manager imeaditly if any discrepenacies occur.
21	Contractor shall provide and install all finish Plumbing per the Contract Documents. This includes but not limited to, Lavatories, Water Closets, Faucets, Floor Drains and Mop Sinks.
22	Contractor shall provide and install all the required Building Materials per the Contract Documents. This shall include but not limited to, all hardware, framing material, insulation, Plaster, Lath, Sheeting, Ceramic Tile, Backer Board, E.TC.
23	Contractor shall provide water truck service for AQMD and SWPPP's requirements. This water truck shall also be available with an operator 7 days a week and shall be mobilized at the direction of the Construction Manager for after hours AQMD situations. The contractor shall be the immediate contact provided to address AQMD and SWPPP concerns. Fugitive dust control must be maintained at all times in accordance with SCAQMD standards.
24	Contractor shall provide on-going water truck service for general on-site and off-site clean up related to the project construction activities. Such clean up shall include, but not be limited to; washing down the site flatwork and structures within <u>and</u> outside of construction areas where dirt and dust has accumulated, water down dirt stock piles to help control dust issues and washing of public access areas.
25	Contractor shall furnish, install and continually maintain all temporary erosion control and site drainage measures during the duration of the project. Measures to be per the Storm Water Pollution Prevention Plan (SWPPP) as called out in the contract documents. This is not an option of the contractor. This work must be in place at the start of the project. All costs to furnish, install and maintain erosion control materials shall be included in the contractors bid. All erosion control measures shall be moved and reset as required per phase. Contractors shall modify SWPPP measures as necessary to address project progress.
26	Contractor shall provide, install and maintain wheel shaker plates across the width of the Valencia Street access/haul road and construction entrance/exit at Otterbein in an approved location by the construction manager. Barriers are to be set up in order to keep construction vehicles from driving around the plates. If dirt track out becomes an issue on public roads it will be the responsibility of the contractor to address the issue immediately by means of providing and operating a street sweeper to clean the roads to the satisfaction of the Construction Manager. Contractor to remove shaker plates from the site and end of the project.
27	Any fines issued by SCAQMD due to violation of improper dust control, dirt track out or water runoff will be paid by the contractor. The contractor's job site superintendent and foremen shall provide copies of SCAQMD and SWPPPs training certificates for the job site records.
28	Contractor shall furnish, install and maintain all temporary construction power related items; including generators, "Spider Boxes" and extension cords. The cost of power usage to be borne by the District. All other power related costs are to be included in the contractor's bid.
29	Contractor shall furnish, install and maintain (2 total) and the Inspector adjacent to the Construction Manager's trailer. Toilet stations are to have the hand wash option and the ability to be locked. Service for units shall bi-weekly.
30	Contractor shall provide and maintain temporary restroom and hand wash stations facilities on site for construction workers use. Quantity of units are to be provided per OSHA standards and per the construction manager. Toilets are to be serviced and cleaned twice a week. Location of the toilets are to be approved by the construction manager. The campus restroom facilities are not to be used at anytime.

31	Contractor shall provide and install the required temporary directional signage throughout the campus to notify public and students of revised path of travel to relocated buildings, classrooms and facilities. Sign boards are to be professionally made of 3/4" plywood substrate and painted on both sides with exterior semi gloss white paint and 6" blue lettering. Signs are to be mounted to a driven post in a secure fashion to last throughout the construction period. Upon removal of sign posts the surface area effected is to be patched and repaired to match existing surfaces. Contractor shall be responsible to furnish and install a minimum of (60) signs.
32	Contractor shall limit noise levels in particular areas that effect surround buildings during the District's testing periods and daily instruction. Refer to the District's front end general and special conditions for details.
33	Contractor shall be responsible for clean up on a daily basis. The site shall be kept clean and safe at all times. At no time shall trash and construction debris be allowed to accumulate and be piled up for future pick up and removal. The Construction Manager and District reserve the right to request areas of special clean up, if needed, to take place within a 24 hour period. Costs for special clean up, if necessary, shall be paid by the contractor. All adjoining areas to the construction area are to be kept clean and washed down as needed to remove dust on surfaces and structures. Reference project specifications for more details.
34	Construction employee parking is to only take place inside the fenced in contractor parking lot as described in CMSK 02. Parking is prohibited anywhere else on site. At no time will any employees be permitted to park their vehicles between or around buildings. Only vehicles with consent of the Construction Manager will be allowed to park outside the designated parking area.
35	All Construction Personnel shall be confined within the construction limits or work lines. At no time will any construction persons, vehicle's, or equipment, be allowed outside the construction area. All staging, parking areas, construction path of travel, delivery schedules, etc. are to be coordinated through the Construction Manager.
36	Hours of work shall be determined solely by the Construction Manager (generally from 7am to 3pm as approved by the Construction Manager and subject to change). Gates and work areas are to remain locked until the contractor superintendent or foreman approved by the construction manager arrives on site.
37	Contractor and sub-contractor employees are to wear the proper work and safety attire; shirts and long pants worn at all times, no offensive graphics to be displayed on employee's clothing. It is preferable for all contractor and sub-contractors to wear company issued attire.
38	Contractor and sub-contractor employees shall follow proper site etiquette. The following actions are prohibited: Student interaction and conversing of any kind before, during or after work hours, playing loud music anywhere on campus in or outside of vehicles, loitering on site before or after job site work hours.
39	Contractor shall pay and maintain cell phone service for their project and sub-contractor foremen throughout the duration of the project for continuous communication with the Construction Managers.
40	Contractor shall provide and pay for security of all their site stored materials, tools and equipment.
41	The Construction Manager shall review and approve the placement of all temporary storage containers, trailers and stored materials on site.
42	At no time will a contractor or sub-contractor drive or park on new or existing concrete flatwork without prior consent of the Construction Manager. It will be the contractor's responsibility to keep their employees, sub-contractors, suppliers and company vehicles off said concrete. Any damage, tire marks or cracking on concrete slabs found at anytime as a result of violation of this Work scope item will cause the contractor to be held responsible for the repairs. At the end of the project, all concrete flatwork is to be washed down to remove dirt and tire marks.

43	If required, the contractor shall first obtain permission from the Construction Manager and then carefully remove and reinstall any chain link, ornamental iron and/or temporary fencing encountered while installing work and/or obtaining access to their work area to the satisfaction of the Construction Manager. Fencing shall be repaired, relocated, and replaced on a daily basis to ensure continual site security and safety.
44	Upon written notice from the Construction Manager, all storage bins, stored materials and trailers will be moved to a location designated by the Construction Manager within 48 hours for the purpose of site improvements. If this work is not completed within the timeline given, the materials, storage bins and trailers will be moved at the contractor's expense.
45	Contractor shall provide all traffic control, barricades, warning lights, signs, signalmen, etc. required for the execution of the work for the project. Prepare and submit traffic control plans and/or pay fees as may be required by the governing authorities.
46	Contractor shall saw cut existing concrete & paving to provide a smooth edge for patching and/or adjoining new work to existing improvements as required.
47	Any area found requiring de-watering (due to ground water table and/or rain fall) in order to perform work shall be performed within the timeline given in a written notice from the Construction Manager. Cost associated with this effort shall be borne by the contractor.
48	Contractor shall leave any holes or trenches in an open condition as per Cal OSHA safety standards.
49	It shall be the responsibility of the contractor to properly cap any irrigation and utilities which may be disturbed during the demolition process per the applicable specifications
50	All gates separating construction areas from existing campus must remain closed at all times.
51	Contractor shall provide temporary fencing, barricades and trench plates as necessary to safely secure work areas from existing campus which fall outside of the limit lines shown on the drawings.
52	Contractor shall load, properly haul, and legally dispose of to an offsite location all unsuitable "spoils". This includes procurement & payment of all hauling permits and/or dump fees which may be required.
53	Contractor shall haul excess soils off the site. At no time will soils be stock piled on site. At no time will soils be stock piled on site for use from one phase to another phase.
54	Contractor shall furnish, install and pay all costs related to a water meter used for all over excavation, demolition and grading.
55	Contractor shall be responsible to include all costs associated with the import or export of soils necessary to achieve final grades in accordance with the contract documents.
56	Contractor shall include in their contract all work identified in the abatement survey and specification documents provided within the contract documents. The District will provide an abatement consultant to monitor and oversee the contractor's abatement contractor.
57	During the course of the project, the contractor shall keep the swimming pool and gymnasium facilities operational at all times. The contractor shall provide the appropriate sized generator, fuel, electrical cords, maintenance and other related items necessary. Associated costs shall be paid for under the project allowance.
58	Contractor shall have all employees fingerprinted per the District Special Conditions. A list of fingerprinted employees, on a company letterhead, is to be provided to the Construction Manager prior to the employee reporting to the site. Employees not shown the list will be asked to be leave the site and not commence work until they have completed the fingerprinting procedure. The contractor is to have a current, dated, list of fingerprinted employees available on site at all times for reference by the Construction Manager.
59	Contractor shall furnish and install all Casework as required per the Contract Documents. This shall include any coordination required for keying

60	Contractor shall furnish and install all Fire Extingusher Cabintes as required per the Contract Documents.
62	Contractor shall furnish and install the Roll Up Doors as required per the Contract Documents. Contractor is responsible for having Roll Up doors manufactured in a timely fashion as not to hold up the completion of the project. Any and all fees will be beared by the Contractor if the schedule is impacted
63	Contractor shall furnish and install a "Complete" and "Operable" Fire Alram System per the Contract Documents. This shall include any Specialty Inspections as needed at no additional cost. District and Fire Alarm Monitoring companyshall be notified prior to any testing. If testing is required after hours or weekends this will be completed at no additional cost
64	Contractor shall Furnish and install the Heat Pumps as required per the Contract Document.
65	Contractor shall furnish and install all HVAC Equipment as required per the Contract Documents. This shall include but not limited to, Wall mounted Fan Coil, Exhaust Fans and Gravity Vents.
66	Contractor shall load, properly haul, and legally dispose of petro-mat asphalt generated during the asphalt demo process. This includes procurement and payment of all hauling permits and/or dump fees which may be required and additional trucking fees associated with delivering the spoils to the abatement facility. Petro-mat is defined as the oil saturated, fibrous, sheet material, typically, "sandwiched" between the top and bottom layers of asphalt. All the existing asphalt throughout the site is presumed to contain petro-mat which needs to be hauled to an approved dump site.
67	Contractor is responsible for any additional Demo and patch back of any said utilities that require to be connected outside the Demo Foot Print area. This includes but not ,limited too Sheet C2.01, C3.01 and E1.2.

SECTION 01 50 00

TEMPORARY FACILITIES AND CONTROLS

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Temporary Utilities: Electricity, lighting, heat, ventilation, telephone service, communication service, water, and sanitary facilities.
- B. Temporary Controls: Barriers, enclosures and fencing. Water, erosion, pollution, noise and fire protection control.
- C. Construction Facilities: Access roads, parking, progress cleaning, project signage, and temporary buildings.

1.2 SUBMITTALS

- A. Moisture-Protection Plan:
 - 1. Submit Moisture - Protection Plan under provisions of Section 01 33 00.
 - 2. Describe procedures and controls for protecting materials and construction from moisture absorption and damage, including delivery, handling, and storage provisions for materials subject to moisture absorption or moisture damage, discarding moisture-damaged materials, protocols for mitigating moisture intrusion into completed Work, and replacing moisture damaged Work.
 - 3. Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, sawing and grinding, and describe plans for dealing with water and moisture from these operations.
 - 4. Show procedures for verifying that wet construction has dried sufficiently to permit installation of finish materials.

1.3 TEMPORARY ELECTRICITY

- A. Connect to existing power service at location as directed. Power consumption shall not disrupt Owner's need for continuous service. Owner will pay for cost of energy used. Exercise measures to conserve energy.
- B. Provide power outlets for construction operations, with branch wiring and distribution boxes. Provide flexible power cords as required.
- C. Provide main service disconnect and over current protection at convenient location.
- D. Comply with NECA, NEMA, and UL standards and regulations for temporary electric service.
- E. Permanent convenience receptacles may not be utilized during construction.

1.4 TEMPORARY LIGHTING

- A. Provide and maintain lighting for construction operations, observations, inspections, and traffic conditions.
- B. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.
- C. Maintain lighting and provide routine repairs.
- D. Permanent building lighting may not be utilized during construction.

1.5 TEMPORARY HEATING/COOLING

- A. Provide and pay for devices as required to maintain specified thermal conditions for construction operations.
- B. Only electric or indirect fired combustion heaters shall be used. No direct fired space heaters will be allowed.
- C. Heaters will be equipped with controls to automatically turn off heater if airflow is interrupted or internal temperature exceeds design temperature.
- D. Do not use permanent equipment for temporary purposes.
- E. Maintain minimum ambient temperature of 50 degrees F and maximum ambient temperature of 80 degrees F in areas where construction is in progress, unless indicated otherwise in specifications.
- F. Maintain temperature above dew point of enclosed space based upon relative humidity of enclosed area.
- G. Continuously monitor temperature of enclosed space(s) using an electronic monitoring device (s). Place devices in locations that will record average temperature of building(s). Provide print out to Architect upon request.

1.6 TEMPORARY VENTILATION

- A. Ventilate enclosed areas to assist cure of materials and to prevent accumulation of dust, fumes, vapors, or gases.
- B. Do not use permanent equipment for temporary ventilation purposes.
- C. Ventilate enclosed spaces to dissipate humidity. Maintain a maximum relative humidity level of less than 60 percent. Avoid pockets of high humidity.
- D. Continuously monitor humidity of enclosed space(s) using an electronic monitoring device(s). Place devices in locations that will record average humidity of building(s). Provide print out to Architect upon request.

1.7 TEMPORARY HUMIDITY CONTROL

- A. Provide temporary ventilation during construction activities to protect installed construction from adverse effects of high humidity and moisture.
- B. Select equipment that will not have a harmful effect on completed installations or elements being installed.
- C. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
- D. Provide dehumidification systems when required to reduce substrate moisture levels to level required to allow installation or application of finishes.
- E. Measure moisture content of materials that have been exposed to moisture during construction operations or after installation. Record daily readings over a forty-eight hour period. Identify materials containing moisture levels higher than allowed. Report findings in writing to Architect.

1.8 TELEPHONE SERVICE

- A. Provide, maintain and pay for telephone service to field office and Owner's/Inspector's field office at time of project mobilization. Inspector's office to have separate telephone line.
- B. Provide mobile telephone service for project superintendent for use when away from field office.
- C. Provide, maintain and pay for Facsimile machine in field office. Provide separate dedicated telephone line for machine.

1.9 TEMPORARY WATER SERVICE

- A. Provide, maintain and pay for suitable quality water service required for construction operations. Contractor may obtain water from existing fire hydrant if appropriate clearances are acquired and fees paid.
- B. Extend branch piping with outlets located so water is available by hoses with threaded connections.

1.10 TEMPORARY SANITARY FACILITIES

- A. Provide temporary chemical type toilet facilities and enclosures and hand wash stations for all tradesmen during construction period as required by OSHA. Additional unit facilities to be provided at Construction Manager's request.
- B. Maintain temporary toilet facilities in a sanitary manner. Provide twice a week service as required.
- C. Existing facilities shall not be used.
- D. Facilities shall comply with the accessibility requirements of the CBC - California Building Code, (CCR) California Code of Regulations, Title 24, Part 2, Section 11B-201.4. In addition to the chemical toilet and hand wash facilities for the construction workers, provide, pay for, and maintain bi-weekly 1 temporary toilet and hand wash facility for the sole use of the Construction Manager and Project Inspector.

1.11 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.
- B. Provide protection for plant life and trees designated to remain and for soft and hardscape areas adjacent to work, replace damaged materials in kind.
- C. Protect non-owned vehicular traffic, stored materials, site and structures from damage.

1.12 FENCING

- A. Construction: Commercial grade chain link fence.
- B. Provide 6 foot high fence around construction site; equip with vehicular and pedestrian gates with locks. Post fences and gates with no trespassing signs.

1.13 WATER CONTROL

- A. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.
- B. Provide water barriers as required to protect site from running water.

1.14 EROSION AND SEDIMENT CONTROL

- A. Conform to Best Management Practices for erosion and sediment control and non-storm water management as defined in Sections 3 and 4 of the Construction Activity Handbook published by the Storm Water Quality Association.
- B. Plan and execute construction by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.
- C. Minimize amount of bare soil exposed at one time.
- D. Provide temporary measures such as berms, dikes, and drains, to prevent water flow.
- E. Construct fill and waste areas by selective placement to avoid erosive surface silts or clays.

1.15 TEMPORARY FIRE PROTECTION

- A. Maintain temporary fire protection facilities of the types needed until permanent facilities are installed.
- B. Comply with NFPA 10 "Standard for Portable Fire Extinguishers" and NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition Operations".
- C. Fire safety during construction shall comply with CFC - California Fire Code (CCR) California Code of Regulations, Title 24, Part 9, Chapter 33.
- D. Store combustible materials in containers in fire-safe locations.
- E. Maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire-protection facilities, stairways, and other access routes.
- F. Provide supervision of welding operations, combustion-type temporary heating units, and similar sources of fire ignition.

1.16 NOISE CONTROL

- A. Provide methods, means, and facilities to minimize noise produced by construction operations.

1.17 POLLUTION CONTROL

- A. Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations.
- B. Conform to Best Management Practices for waste management and material controls as defined in Section 4 of the Construction Activity Handbook published by the Storm Water Quality Association.

1.18 EXTERIOR ENCLOSURES

- A. Provide temporary weather-tight closure of exterior openings to accommodate acceptable working conditions and protection for materials, to allow for temporary heating and maintenance of required ambient temperatures identified in individual specification Sections, and to prevent entry of unauthorized persons.
- B. Provide access doors with self-closing hardware and locks.

1.19 INTERIOR ENCLOSURES

- A. Provide temporary partitions and ceilings as required to separate work areas from Owner occupied areas, to prevent penetration of dust and moisture into Owner occupied areas, and to prevent damage to existing materials and equipment.

1.20 SECURITY

- A. Provide security and facilities to protect Work and existing facilities and Owner's operations from unauthorized entry, vandalism, or theft.
- B. Coordinate with Owner's security program.

1.21 ACCESS ROADS

- A. Construct and maintain temporary roads accessing public thoroughfares to serve construction area. Extend and relocate as Work progress requires. Provide detours necessary for unimpeded traffic flow.
- B. Stabilize temporary vehicle transportation routes and construction entrances to prevent erosion and control dust immediately after grading in accordance with best management practice techniques defined in Section 3 of the Construction Activity Handbook published by the Storm Water Quality Association.
- C. Maintain stabilization techniques as work progresses.

- D. Provide and maintain access to fire hydrants, free of obstructions.
- E. Designated existing on-site roads may be used for construction traffic.

1.22 PARKING

- A. Arrange for temporary gravel surface parking areas to accommodate construction personnel.

1.23 TRAFFIC CONTROL

- A. Comply with requirements of authorities having jurisdiction.
- B. Obtain all permits, provide all materials and maintain controls as required of authorities having jurisdiction.
- C. Maintain access for fire-fighting equipment and access to hydrants.

1.24 PROGRESS CLEANING

- A. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
- B. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- C. Provide walk-off mats at each building entry.

1.25 WASTE DISPOSAL

- A. Provide waste collection containers in sizes adequate to handle waste from construction operations.
- B. Maintain building areas free of waste materials, debris, and rubbish.
- C. Remove waste materials, debris, and rubbish from site periodically and legally dispose of off site.
- D. Maintain site area in a clean and orderly condition.

1.26 FIELD OFFICES

- A. Field offices will be provided by the District.
- B. Maintain approach to office free of mud and water.
- C. When permanent facilities are enclosed with operable utilities, relocate offices into building, with written agreement of Owner, and remove temporary buildings.
- D. Facilities shall comply with the accessibility requirements of the CBC - California Building Code, (CCR) California Code of Regulations, Title 24, Part 2, Section 11B-201.4.

1.27 STORAGE AREAS AND SHEDS

- A. Size to storage requirements for products of individual Sections. Allow for access and orderly provision for maintenance and for inspection of products.

1.28 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Maintain temporary equipment, facilities and controls until Substantial Completion or when use is no longer required.
- B. Remove temporary above grade or buried utilities, equipment, facilities, materials, prior to Substantial Completion review.

- C. Remove underground installations to a minimum depth of 2 feet. Grade site as indicated.
- D. Clean and repair damage caused by installation or use of temporary work.
- E. Materials and facilities that constitute temporary facilities are property of the Contractor.
- F. Restore existing facilities used during construction to original condition.
- G. Restore permanent facilities used during construction to specified condition.
- H. Replace construction that cannot be satisfactorily restored.

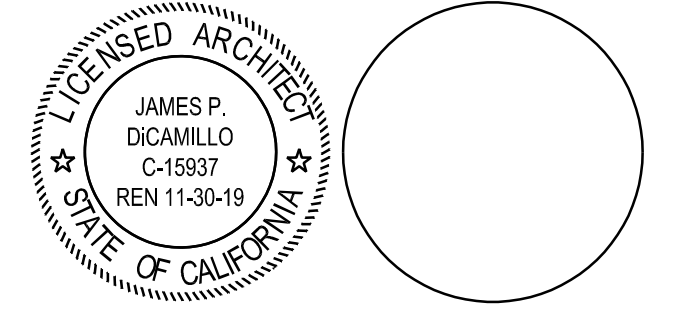
2. PART 2 PRODUCTS

Not Used

3. PART 3 EXECUTION

Not Used

END OF SECTION



CONSULTANT

IDENTIFICATION STAMP
 OFFICE OF REGULATION SERVICES
 APPL 03-119243
 AC FLS SS
 DATE

NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: _____ **CHECKED:** _____
DATE: 09/27/2018 **SCALE:** _____
PROJECT NUMBER: 1619700.00

**ENLARGED
 PARTIAL SITE
 PLANS**

DRAWING NUMBER: A1.2

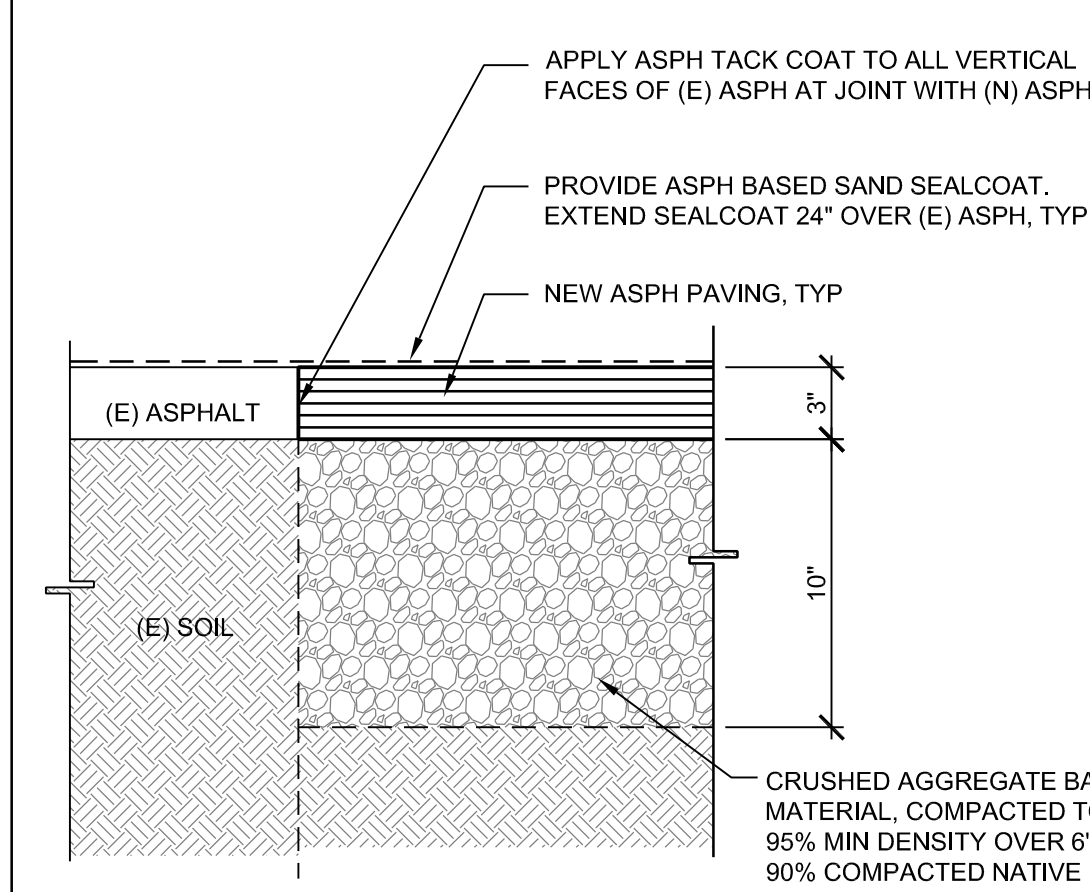
- DEMOLITION AREA - SEE GENERAL DEMOLITION NOTES
- NEW ASPHALT PAVING
- 0250 SITE DEMOLITION - REFER TO GENERAL DEMOLITION NOTES HERE ON
- 0251 SAW CUT (E) PAVEMENT. SEE THE ACTUAL EXTENT OF DEMOLITION IN CIVIL AND OTHER DISCIPLINE DRAWINGS
- 0252 LIMIT OF DEMOLITION. SEE THE ACTUAL EXTENT OF DEMOLITION IN CIVIL AND OTHER DISCIPLINE DRAWINGS
- 0253 REMOVE CONC SWALE
- 0254 (E) C.L. FENCE TO REMAIN
- 0255 (E) PARTY WALL TO REMAIN. PROTECT DURING CONSTRUCTION
- 0256 (E) IRRIGATION CONTROL BOX TO REMAIN. PROTECT AND MAINTAIN FUNCTION DURING CONSTRUCTION
- 0257 REMOVE (E) 60" H. - 4" DIA LIGHT POLE AND FOOTING PER ELECTRICAL DWG
- 0258 REMOVE (E) RETAINING WALL FOR (N) RETAINING WALL INSTALLATION PER CIVIL DWG
- 0271 (N) CONC SWALE PER CIVIL DRAWING
- 0272 (N) 4" CONC PAVEMENT WITH #4 REBAR AT 18" O.C. E3 WAY OVER 80% COMPACTED NATIVE. THICKEN CONCRETE TO 4" IN FRONT OF ROLL UP DOORS.
- 0273 (N) 4" THICK CONC MOW STRIP. PROVIDE (1) #5 REBAR IN MID-SECTION
- 0274 (N) 8" CONC PAD WITH TOP 4" ABOVE GRADE WITH #4 REBAR AT 24" O.C. EA WAY
- 0275 (N) 20" CHAIN LINK VEHICULAR GATE PER 2010.1
- 0276 (N) 8" CHAIN LINK FENCING PER 4A1.2
- 0277 (N) 3/4" CHAIN LINK PEDESTRIAN GATE PER 4A1.2
- 0278 SMOOTH TRANSITION BETWEEN FINISH SURFACES AND BETWEEN OLD AND NEW PER 7/1A.2
- 0279 (N) 3" AC PAVING OVER 10" CAL TRANS CLASS 2 AGGREGATE BASE COURSE WITH 4" OF COMPACTED NATIVE
- 0280 (N) HEAT PUMP PER MECHANICAL DRAWING
- 0281 (N) W/RED WOOD HEADER AT AC PAV TO NATIVE TRANSITION PER 6A1.1
- 0282 (N) COMPACTED NATIVE TO BLEND WITH ADJACENT GRADE. RE-SEED WITH THE SAME GRASS TYPE
- 0283 (N) STEEL PIPE BOLLARD FULLY GROUTED PER 7/1A.1
- 0284 RECONFIGURE (E) CHAIN LINK FENCE AS NECESSARY FOR THE CONSTRUCTION OF NEW RETAINING WALL
- 0285 NEW CMU RETAINING WALL PER CIVIL AND STRUCTURAL DRAWINGS
- 0286 NEW CONC CURB PER CIVIL DRAWING
- 0287 SMOOTH TRANSITION TO EXISTING GRADE
- 0288 TRENCH DRAIN PER CIVIL DRAWING
- 0289 REMOVE C.L. FENCE IN AREA OF DEMOLITION U.N.O.

- GENERAL:**
 UNLESS NOTED OTHERWISE, REMOVE ANY ITEM INCLUDING BUT NOT LIMITED TO STRUCTURE, HARDSCAPE, LANDSCAPE, RETAINING WALL, BOLLARD, HARDSCAPE CURBS, CHAIN LINK LIGHTS ETC. FOR THE EXECUTION OF THE NEW PLAN. EXTENDS DEMOLITION AREA BEYOND THE INDICATED AREA AS NECESSARY FOR THE INSTALLATION OF UTILITY LINES PER THE CIVIL, PLUMBING AND ELECTRICAL DRAWINGS. PROTECT ALL ADJACENT STRUCTURES, LANDSCAPE AND TREES DURING CONSTRUCTION OR REPLACE WHEN DAMAGED. ADDITIONAL SCOPE OF WORK MAY BE REQUIRED BY OTHER DISCIPLINES. REFER TO OTHER DISCIPLINE DRAWINGS. SOME SITE CONDITIONS ARE NOT INDICATED IN THIS PLAN. ALL BIDDERS ARE REQUIRED TO VISIT THE SITE PRIOR TO BID TO ENSURE THAT ALL EXISTING UTILITY AND IRRIGATION SYSTEM REMAIN IN WORKING CONDITION DURING AND AT THE END OF CONSTRUCTION.
1. ALL DEMOLITION WORK SHALL BE IN ACCORDANCE WITH THE ORDINANCES, REGULATIONS AND APPLICABLE CODES OF THE CITY OF ROWLAND HEIGHTS AND WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 2. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND BUILDING, AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS WHETHER OR NOT THOSE EXISTING IMPROVEMENTS ARE INDICATED ON THIS PLAN.
 3. IF ANY UNKNOWN SUB-SURFACE STRUCTURE IS ENCOUNTERED DURING DEMOLITION, IT SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER, THE SUPERVISING CIVIL ENGINEER AND THE PROJECT ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
 4. DUST SHALL BE CONTROLLED BY WATERING.
 5. PRIOR TO COMMENCING ANY DEMOLITION WORK, THE CONTRACTOR SHALL MAKE PROVISIONS FOR AN ADEQUATE AND CONTINUOUS SOURCE OF WATER DURING DEMOLITION AND CONSTRUCTION.
 6. THE REMOVAL OF HAZARDOUS MATERIALS IS NOT COVERED BY THESE PLANS. IN THE EVENT THAT SOIL CONTAMINATED WITH HAZARDOUS MATERIALS OR ABANDONED UNDERGROUND STORAGE TANK IS DISCOVERED, DEMOLITION WORK SHALL BE STOPPED UNTIL A SITE ASSESSMENT AND SEPARATE MITIGATION PLANS HAVE BEEN PREPARED BY OTHERS AND APPROVED BY THE OWNER, CITY OF ROWLAND HEIGHTS, COUNTY OF LOS ANGELES AND OTHER INVOLVED GOVERNING AGENCIES.
 7. THE LOCATION AND PROTECTION OF ALL UTILITIES AND SURVEY MONUMENTS OF EVERY NATURE, WHETHER OR NOT INDICATED ON THESE PLANS, ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES AND SURVEY MONUMENTS THAT HAVE BEEN DAMAGED OR DESTROYED DURING DEMOLITION.
 8. ALL ON-SITE IMPROVEMENTS WHICH ARE TO BE REMOVED OFF-SITE SHALL BE PROPERLY HANDLED AND DISPOSED OF IN COMPLIANCE WITH EXISTING CITY OF ROWLAND HEIGHTS, COUNTY OF LOS ANGELES, STATE AND FEDERAL GUIDELINES AND REGULATIONS.
 9. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND SERVICE ALERT, 48 HOURS IN ADVANCE OF THE COMMENCEMENT OF CONSTRUCTION FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES INDICATED AND ANY OTHER LINES OF RECORD NOT INDICATED ON THESE PLANS.
 10. ADEQUATE BARRICADES, LIGHTS, FLAGMEN, SIGNS AND OTHER SAFETY DEVICES SHALL BE PROVIDED AS SPECIFIED IN THE TRAFFIC MANUAL PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION LATEST REVISION AND AS SPECIFIED BY THE OWNER.
 11. EXISTING STUDENT HARDSCAPE AND WORK AREAS SHALL BE KEPT CLEAN OF ALL MATERIALS RESULTING FROM THE DEMOLITION OPERATIONS. THE STUDENT HARDSCAPE AND WORK AREAS SHALL BE CLEANED DAILY AS NECESSARY TO MAINTAIN SAFE ENVIRONMENT AT ALL TIMES.
 12. ANY MODIFICATIONS OF, OR CHANGES IN, DEMOLITION PLANS MUST BE APPROVED BY THE OWNER AND THE PROJECT ARCHITECT.
 13. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION OPERATIONS AS DIRECTED BY THE OWNER OR GOVERNING AUTHORITIES. RETURN ADJACENT AREAS TO EXISTING CONDITIONS PRIOR TO THE START OF WORK.
 14. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS OR PERMISSION AND UTILITY DISCONNECTION PERMITS FROM THE CITY OF ROWLAND HEIGHTS AND UTILITY COMPANIES.
 15. ALL UNUSED UTILITIES, SEWER, WATER, GAS, TELEPHONE AND ELECTRIC SERVICES SHALL BE DISCONNECTED AND CAPPED ACCORDING TO OWNER, CITY OF ROWLAND HEIGHTS AND UTILITY COMPANY REQUIREMENTS, UNLESS OTHERWISE NOTED.
 16. ALL UTILITIES, SEWER, WATER, GAS, TELEPHONE AND ELECTRIC SERVICES TO BE DISCONNECTED AND CAPPED SHALL BE ACCORDING TO OWNER, CITY OF ROWLAND HEIGHTS AND UTILITY COMPANY REQUIREMENTS, UNLESS OTHERWISE NOTED.
 17. DO NOT INTERRUPT ANY SERVICES OR DISRUPT THE ACTIVITIES OF THE EXISTING FACILITIES OUTSIDE OF THE DEMOLITION LIMITS.
 18. REMOVE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM THE DEMOLITION AND SITE CLEARING OPERATIONS FROM THE SITE AND DISPOSE OF IN A LEGAL MANNER.
 19. REFER TO THE ATTACHED CIVIL, ELECTRICAL, PLUMBING, AND MECHANICAL DRAWINGS FOR THE PLACEMENT OR RELOCATION OF SUBTERRANEAN ABOVE GRADE EQUIPMENT ASSOCIATED WITH THOSE SCOPES OF WORK WHICH MAY NOT BE SHOWN OR REFERENCED ON THE ARCHITECTURAL DRAWINGS. EXISTING OR NEW ITEMS SHOWN ON THE ARCHITECTURAL DRAWINGS WHICH ARE INDICATED DIFFERENTLY ON ANY OF THE CONSULTING ENGINEERING DRAWINGS OR AS OCCURS IN THE FIELD SHALL IMMEDIATELY BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO COMMENCING WITH THE WORK IN QUESTION.

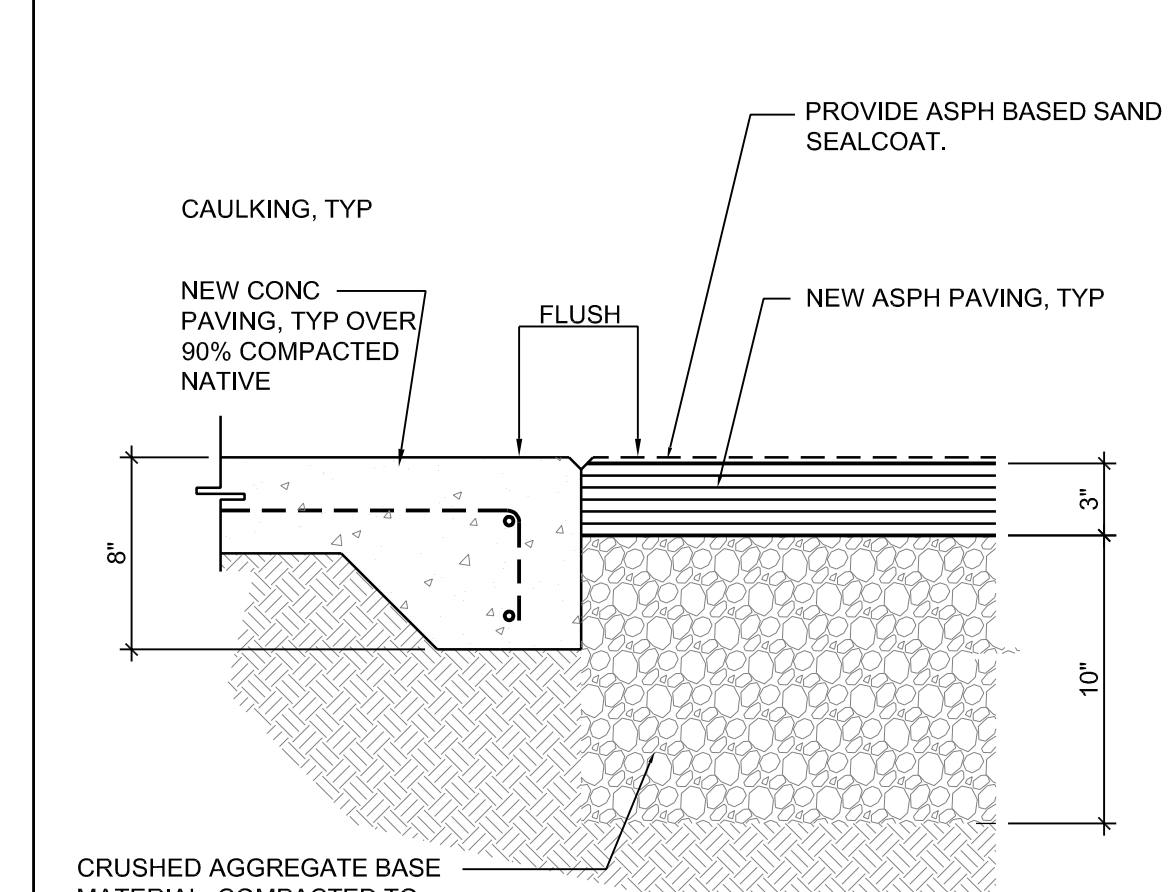
ENLARGED DEMOLITION SITE PLAN

1" = 10'-0" 10

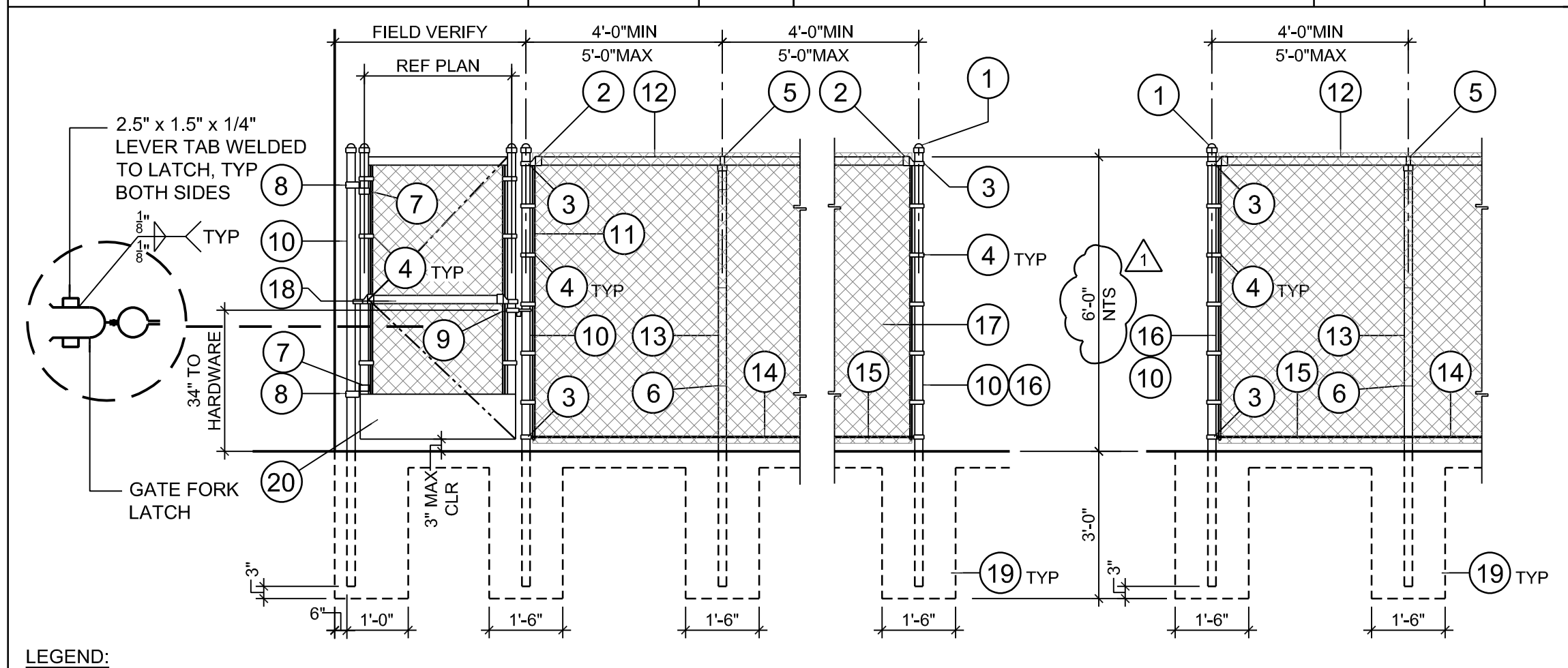
REFERENCE NOTES



GENERAL DEMO NOTES



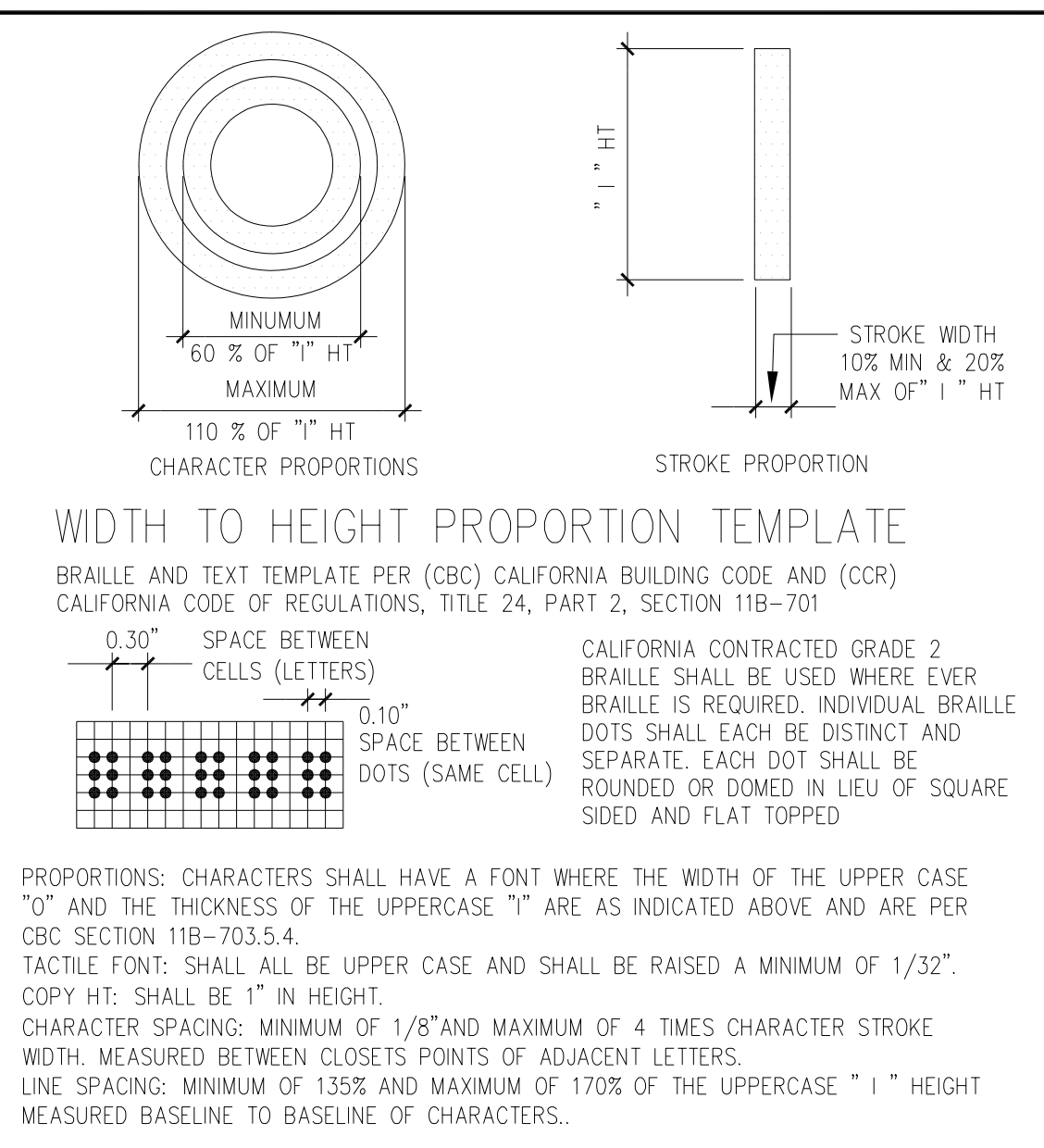
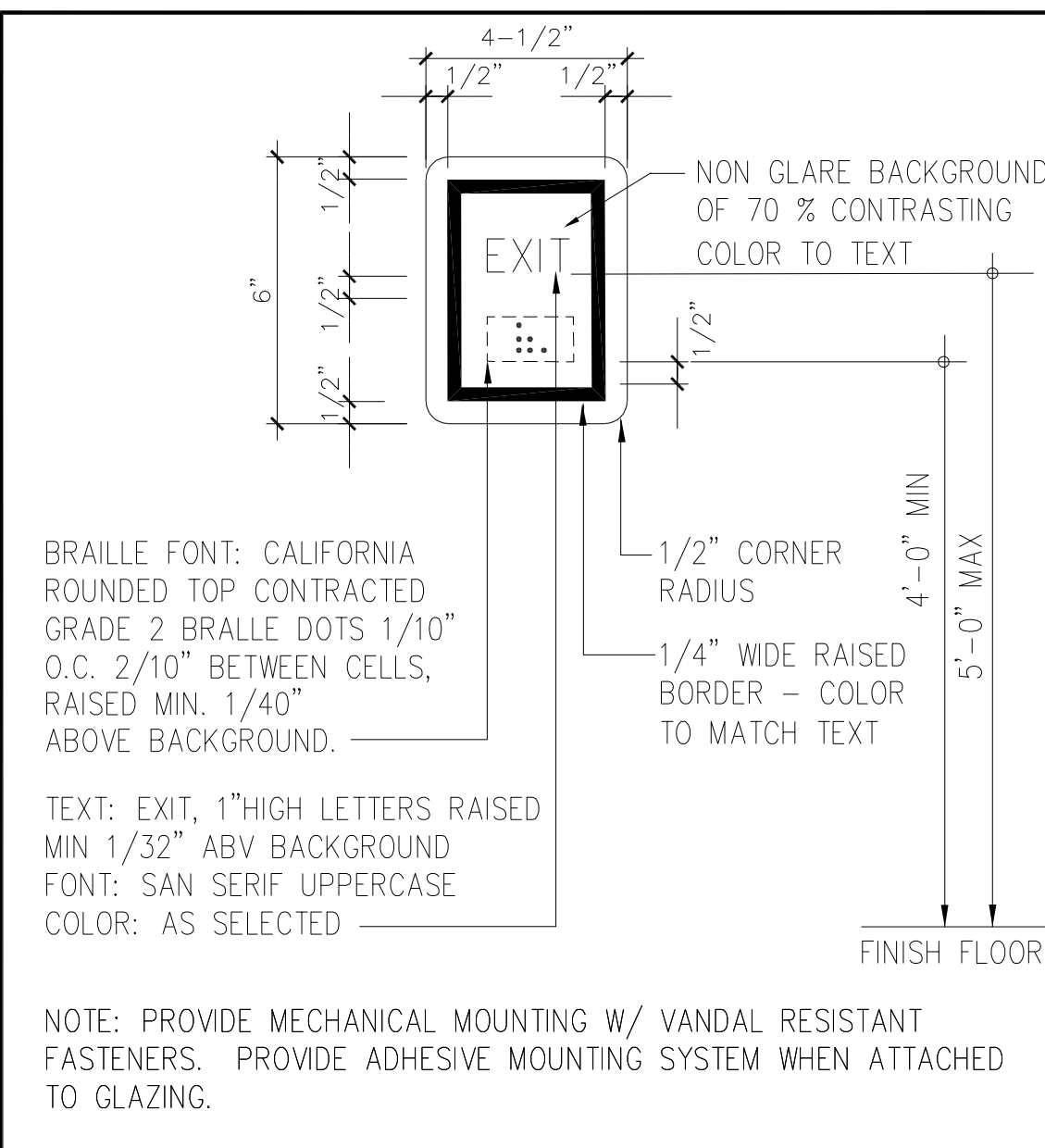
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JT @ (E) & (N) ASPHALT		1 1/2" = 1'-0"	CONCRETE TO ASPHALT TRANSITION		1 1/2" = 1'-0"
		7			3



FILE/CSI NUMBER: 02000-15	REVISION DATE:	JOB NUMBER:	FILE/CSI NUMBER: 02000-15	REVISION DATE:	JOB NUMBER:
CHAINLINK FENCING		3/8" = 1'-0"			4

ENLARGED NEW SITE PLAN

1" = 10'-0" 12



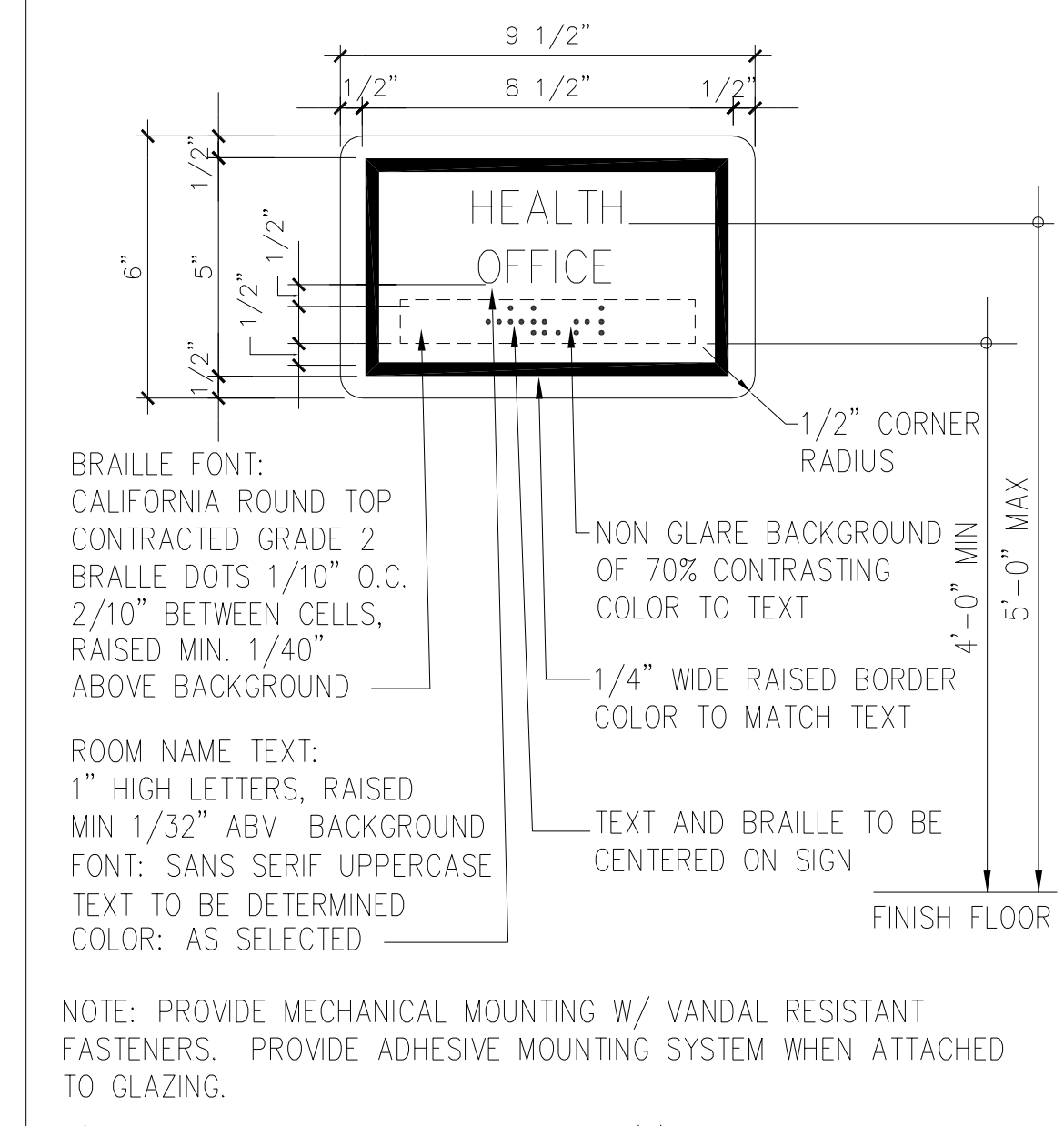
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TACTILE EXIT SIGN 3"=1'-0" 21

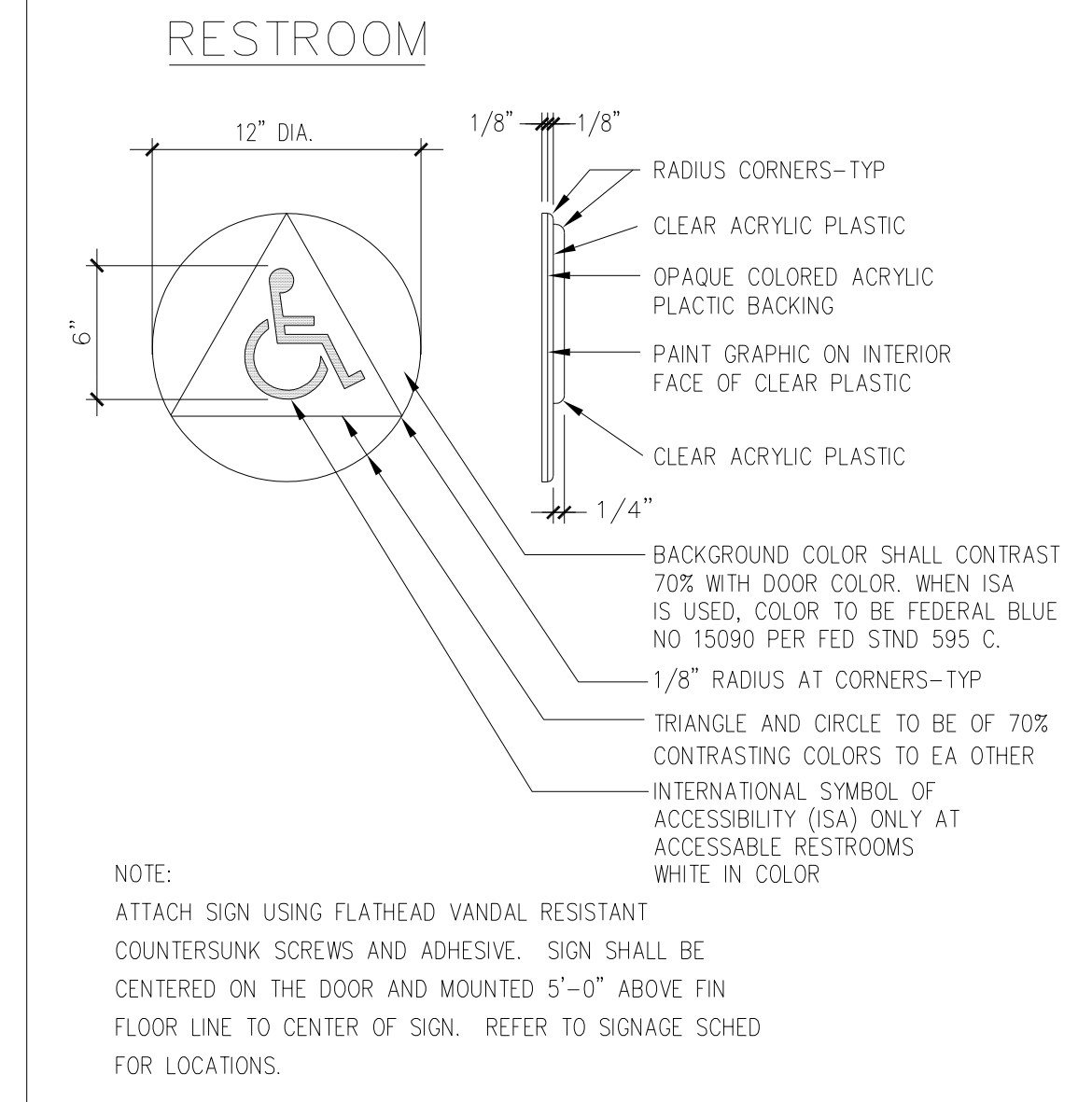
SIGNAGE TEMPLATES FULL 17

13	9
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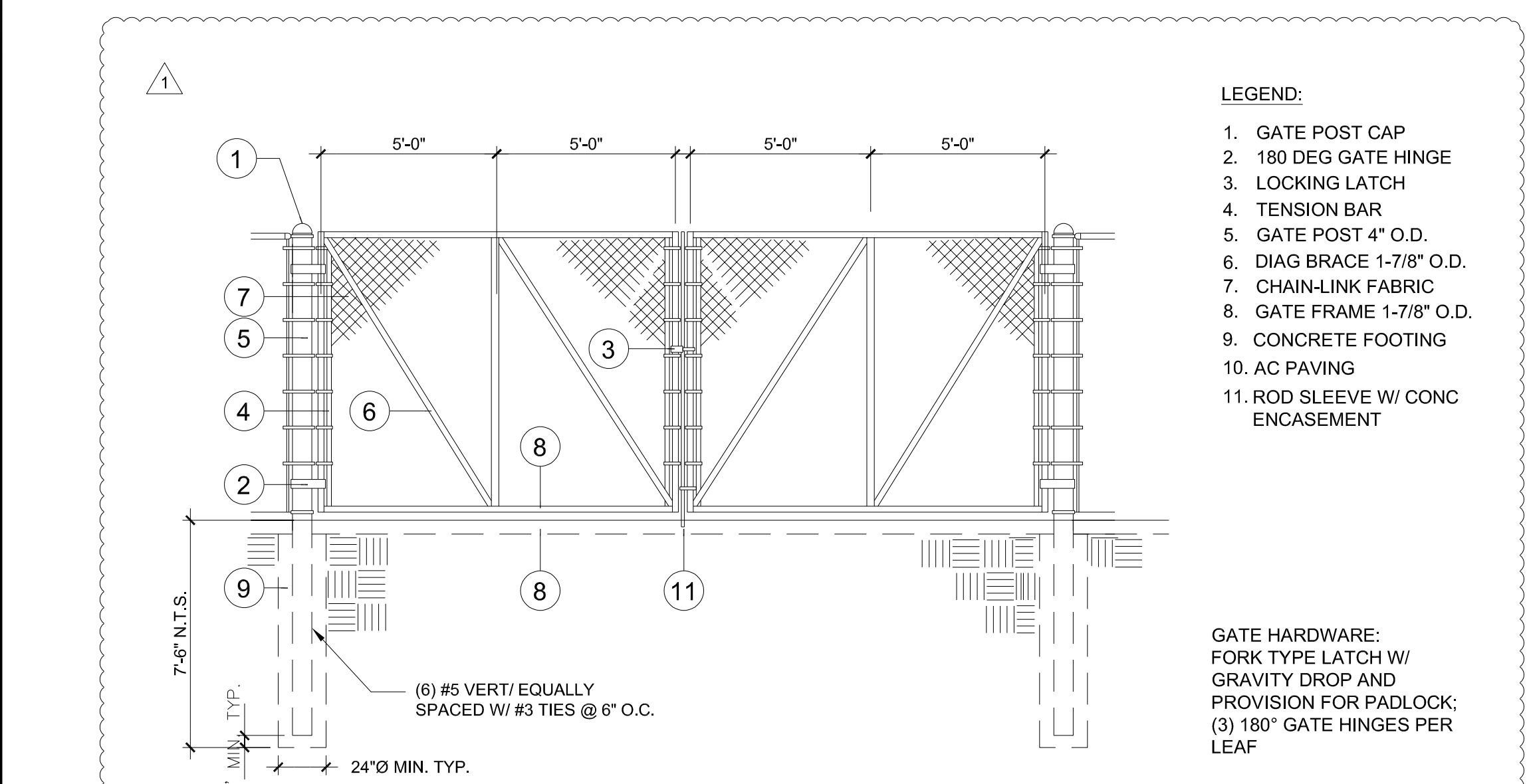
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ROOM CONTROL SIGNAGE 3"=1'-0" 14



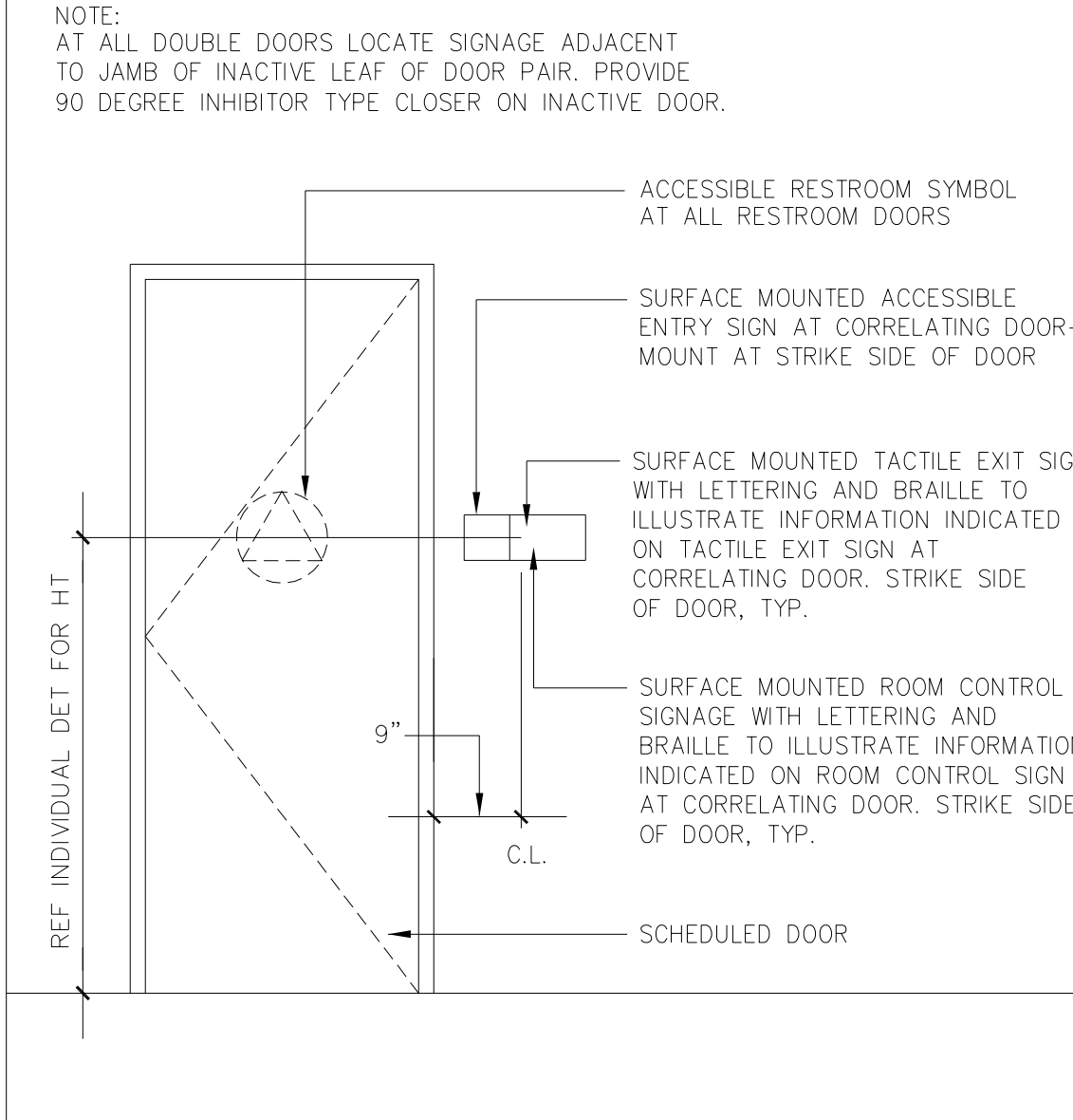
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RESTROOM SYMBOL 1 1/2"=1'-0" 15



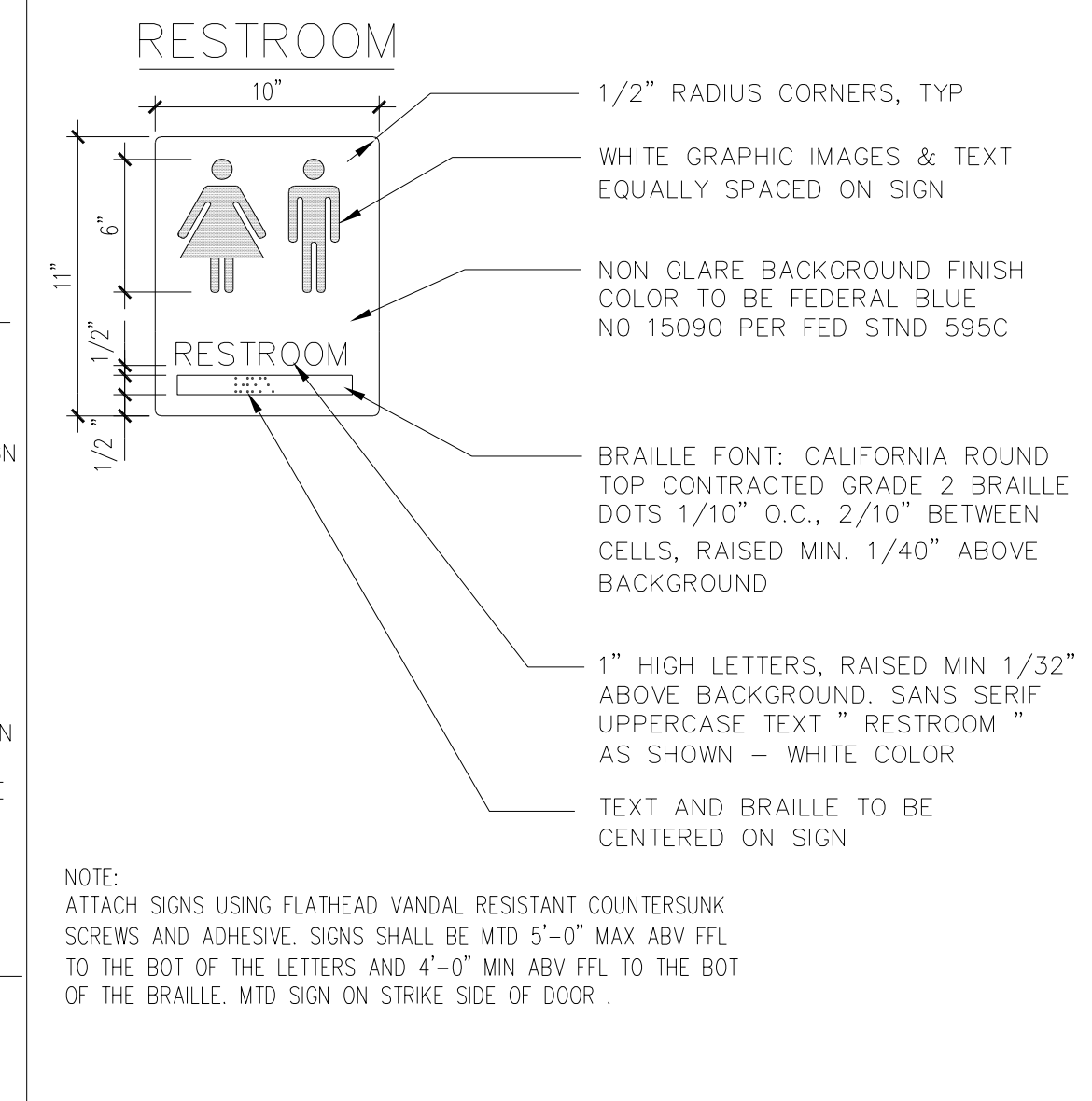
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VEHICLE GATES 3/8"=1'-0" 20



FILE/CSI NUMBER: 01000-1601	REVISION DATE: 07/30/21	JOB NUMBER: XXXXX
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SIGNAGE MOUNTING DETAIL 1/2"=1'-0" 16



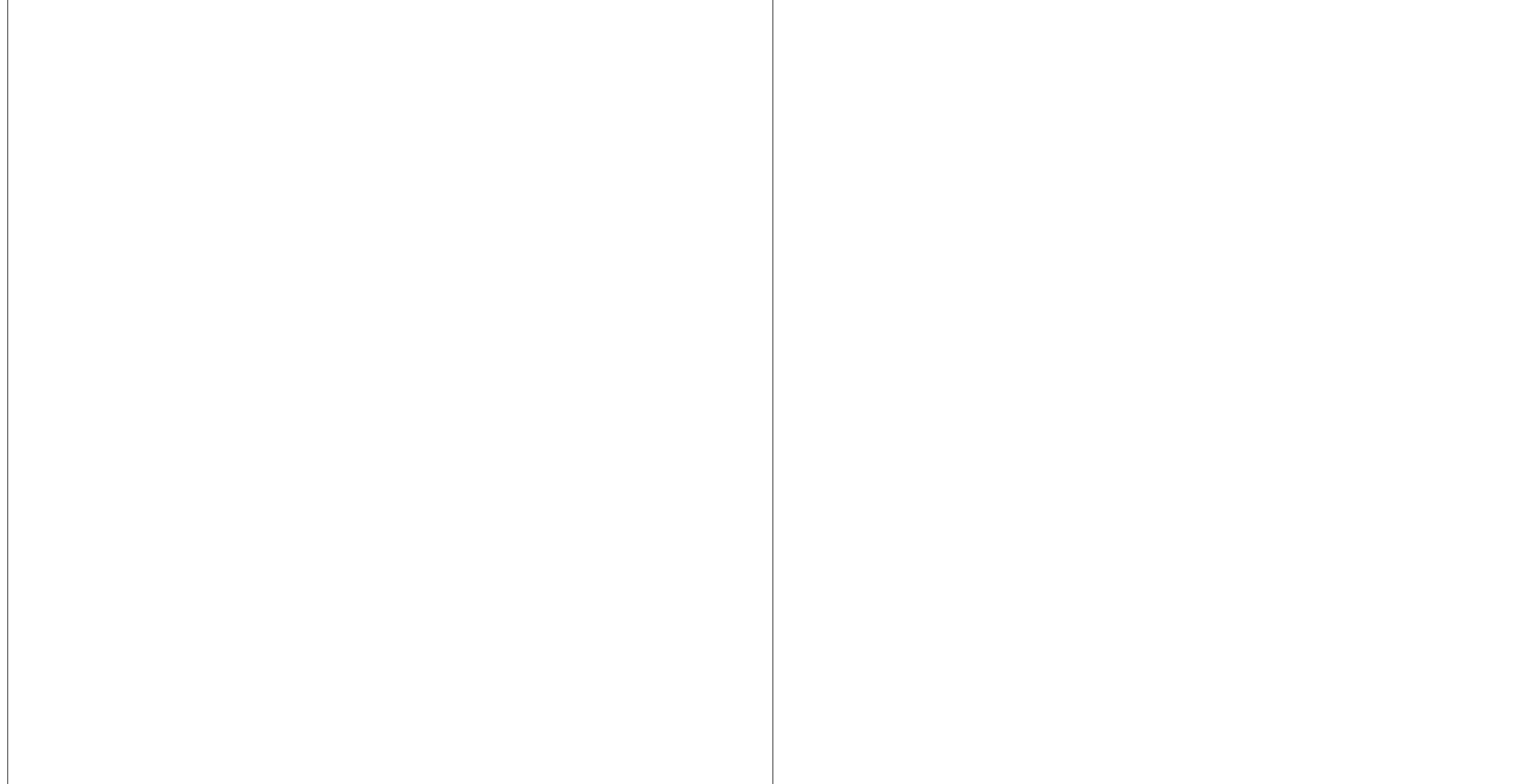
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WALL MTD RESTRM SIGN 1 1/2"=1'-0" 12

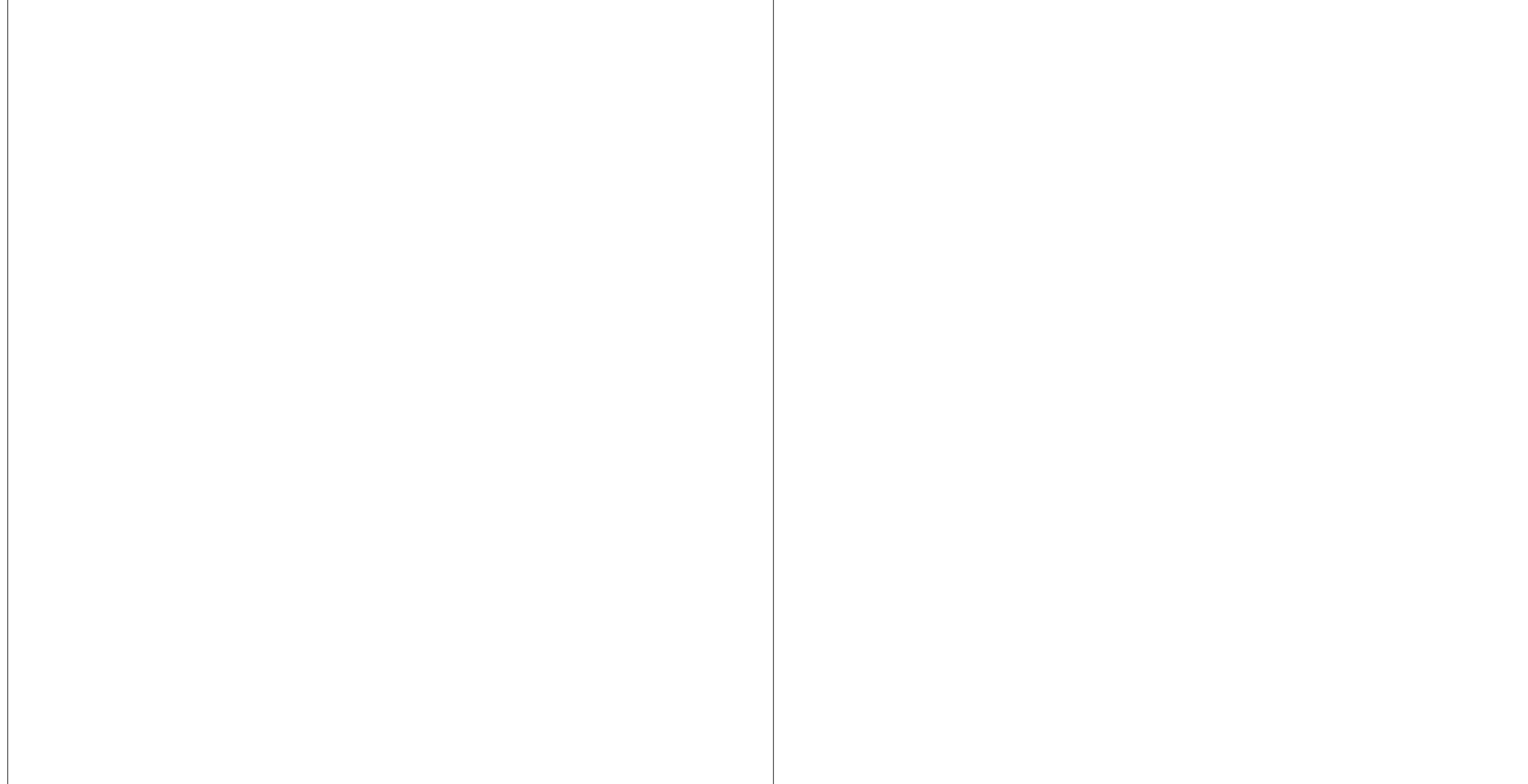
22	18	14	10
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23	19	15	11
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24	20	16	12
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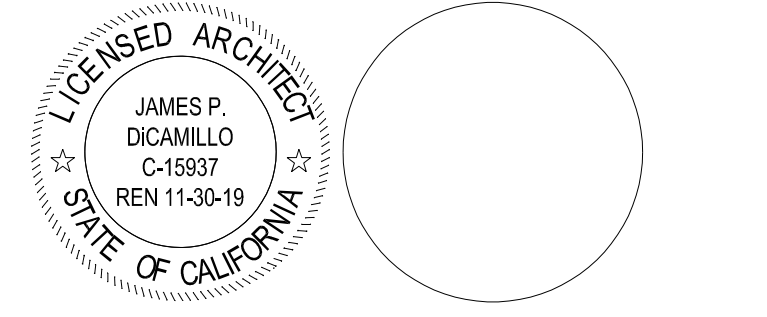
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VEHICLE GATES 3/8"=1'-0" 20



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 ROWLAND UNIFIED SCHOOL DISTRICT
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 ROWLAND HEIGHTS, CA**



CONSULTANT

REGISTRATION STAMP
 OFFICE OF THE ARCHITECT
 OFFICE OF REGULATION SERVICES
 APPL 03-119243
 AC FLS SS
 DATE

03.15.19	S.A.	ADDENDUM 1	
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: WLC CHECKED:
 DATE: 09/27/2018 SCALE: AS NOTED
 PROJECT NUMBER: 1619700.00

**SPECIALTY
 DETAILS AND
 SCHEDULES**

DRAWING NUMBER: 10.1

ABBREVIATIONS A-M	
ABAND.	-ABANDON OR ABANDONED
AC OR A.C.	-ASPHALT CONCRETE
ACP OR A.C.P.	-ASBESTOS CONCRETE PIPE
AGG OR AGG.	-AGGREGATE
AL OR ALT.	-ALTERNATE
∠	-ANGLE
∠s	-ANGLE (STRUCTURAL)
@	-ANGLES
APPD. EQ.	-APPROVED EQUAL
APPROX.	-APPROXIMATE
ART	-ARTICLE
ARV OR A.R.V.	-AIR RELEASE VALVE
ASSY.	-ASSEMBLY
AV OR A.V.	-AIR VALVE
AWE OR A.W.E.	-AWE OR A.W.E.
AWWA.	-AMERICAN WATER WORKS ASSOCIATION
BC OR B.C.	-BEGINNING OF CURVE
BOR OR B.C.R.	-BEGINNING OF CURVE RETURN
BORY OR BORY.	-BOUNDARY
BFLY.	-BUTTERFLY
BLDG OR BLDG.	-BUILDING
BLVD OR BLVD.	-BOULEVARD
BM OR B.M.	-BENCH MARK
BO OR B.O.	-BLOW OFF
BOTL.	-BOTTOM
BS OR B.S.	-BOTTOM OF STEP
BY OR B.V.	-BUTTERFLY VALVE
BW OR B.W.	-BACK OF WALK
CAB OR C.A.B.	-CRUSHED AGGREGATE BASE
CALCS.	-CALCULATIONS
CATV OR C.A.T.V.	-CABLE TELEVISION
CB OR C.B.	-CATCH BASIN
C.C.	-CENTER TO CENTER
CF OR C.F.	-CURB FACE
CHKD PL.	-CHECKERED PLATE
CI OR C.I.	-CAST IRON
CIPI OR C.I.P.I.	-CAST IRON PIPE
CL	-CENTER LINE
CL OR C.L.	-CLASS
CLF OR C.L.F.	-CHAIN LINK FENCE
CLR OR C.L.R.	-CLEARANCE
CNC OR C.M.C.	-CEMENT MORTAR COATED
CM & C	-CEMENT MORTAR LINED AND COATED
CM & P	-CEMENT MORTAR LINED AND PAINTED
CM & W	-CEMENT MORTAR LINED AND WRAPPED
CMP OR C.M.P.	-CORRUGATED METAL PIPE
CMU OR C.M.U.	-CONCRETE MASONRY UNIT
CO OR C.O.	-CLEAN OUT
CO.	-COMPANY
COEF.	-COEFFICIENT
COL.	-COLUMN
CONC.	-CONCRETE
COND.	-CONDUIT
CONST.	-CONSTRUCT
CONT OR CONT.	-CONTINUOUS
COORD.	-COORDINATE
CORP.	-CORPORATION
CP OR C.P.	-CONCRETE PIPE
CPLG OR C.P.L.G.	-COUPLING
CTR OR C.T.R.	-CENTER
CU OR C.U.	-CUBIC
CY OR C.Y.	-CUBIC YARD
CYL OR C.Y.L.	-CYLINDER
DBL	-DOUBLE
DDCA OR D.D.C.A.	-DOUBLE DETECTOR CHECK ASSEMBLY
° OR DEG.	-DEGREE
Δ	-DELTA
DEPT OR DEPT.	-DEPARTMENT
DET.	-DETAL
DI OR D.I.	-DUCTILE IRON
DIP OR D.I.P.	-DUCTILE IRON PIPE
D, DIA. OR Ø	-DIAMETER
DL OR D.L.	-DAYLIGHT
DN	-DOWN
DN OR DN.	-DOWN
DS	-DOWN SPOUT
DR OR D.R.	-DRIVE
DRWY OR DRWY.	-DRIVEWAY
DWG OR DWG.	-DRAWING
E	-EAST
E/O	-EAST OF
EG OR E.C.	-END OF CURVE
EG OR E.C.R.	-END OF CURVE RETURN
EG OR E.G.	-EDGE OF GUTTER
EP OR E.P.	-EDGE OF PAVEMENT
EX. OR EXIST.	-EXISTING
FE OR F.E.	-FLANGED END
FEC OR F.E.C.	-FIRE DEPARTMENT CONNECTION
FF OR F.F.	-FINISHED FLOOR
FG OR F.G.	-FINISHED GRADE
FH OR F.H.	-FIRE HYDRANT
FL OR F.L.	-FLOW LINE
FLG OR FL.G.	-FLANGE
FLGD OR FLGD.	-FLANGED
FS OR F.S.	-FINISHED SURFACE
FW OR F.W.	-FRONT OF WALK
FT.	-FOOT OR FEET
GA	-GAGE OR GAUGE
GAL OR GAL.	-GALLONS
GALV OR GALV.	-GALVANIZED
GB OR G.B.	-GRADE BREAK
G.I.P.	-GALVANIZED IRON PIPE
GM OR G.M.	-GAS METER
GI	-GAS LINE
GND.	-GROUND
GP OR G.P.	-GUY POLE OR GUARD POST
GV OR G.V.	-GAS VALVE
GW OR G.W.	-GUY WIRE
HB OR H.B.	-HOSE BIB
HC OR H.C.	-HOUSE CONNECTION
HDPE OR H.D.P.E.	-HIGH-DENSITY POLYETHYLENE
HL OR H.L.	-HOUSE LATERAL
HORIZ.	-HORIZONTAL
HP	-HORSE POWER
HP OR H.P.	-HIGH POINT
HT OR HT.	-HEIGHT
HWY OR HWY.	-HIGHWAY
ICB OR I.C.B.	-IRRIGATION CONTROL BOX
ICV OR I.C.V.	-IRRIGATION CONTROL VALVE
ID OR I.D.	-INSIDE DIAMETER
IN OR "	-INCH
INC.	-INCORPORATED
INCL.	-INCLUDING
INST.	-INSTALL
INT.	-INTERIOR
INTS.	-INTERSECTION
INV OR INV.	-INVERT
IP OR I.P.	-IRON PIPE
IPS OR I.P.S.	-IRON PIPE SIZE
IRRG OR IRRIG.	-IRRIGATION
JB	-JUNCTION BUILDING
LACFCD	-LA COUNTY FLOOD CONTROL DISTRICT
LAT.	-LATERAL
LB OR L.B.	-LBS POUNDS
LF OR L.F.	-LINEAR FEET
L.G.	-LENGTH OR LONG
LL	-LOT LINE
LN OR L.N.	-LANE
LONG.	-LONGITUDINAL
LP OR L.P.	-LOW POINT OR LAMP POST
LSA	-LANDSCAPE AREA
LS OR L.S.	-LUMP SUM
LT.	-LEFT
LUB.	-LUBRICATED
MAX.	-MAXIMUM
MB OR M.B.	-MAIL BOX
MFR.	-MANUFACTURER
MH OR M.H.	-MANHOLE
MHR.	-MANHOLE RIM
MI	-MILE
MID.	-MIDDLE
MIN.	-MINIMUM

ABBREVIATIONS N-Z	
N	-NORTH
NO	-NORTH OF
N.C.	-NORMALLY CLOSED
NEG.	-NEGATIVE
NIC OR N.I.C.	-NOT IN CONTRACT
NO. OR #	-NUMBER
NOS.	-NUMBERS
NOM.	-NOMINAL
NTS OR N.T.S.	-NOT TO SCALE
OAE OR O.A.E.	-OR APPROVED EQUAL
OC OR O.C.	-ON CENTER
OD OR O.D.	-OUTSIDE DIAMETER
PA OR P.A.	-PLANTER AREA
P.C. OR P.C.C.	-PORTLAND CEMENT CONCRETE
PE OR P.E.	-PEAK ELEVATION OR PLAIN END
PL OR P.L.	-PROPERTY LINE
POC OR P.O.C.	-POINT OF CONNECTION
PP OR P.P.	-POWER POLE
PRC OR P.R.C.	-POINT OF REVERSE CURVE
PSI OR P.S.I.	-PRESSURE PER SQUARE INCH
PVC OR P.V.C.	-POLY VINYL CHLORIDE
QTY OR QTY.	-QUANTITY
R OR RAD.	-RADIUS
R OR R.	-RIDGE LINE
RCB OR R.C.B.	-REINFORCED CONCRETE BOX
ROP OR R.O.P.	-REINFORCED CONCRETE PIPE
RO OR R.O.	-ROAD
RD.	-ROAD
REF.	-REFERENCE
REIN.	-REINFORCING
REL.	-RELATIVE
RES.	-RESERVOIR
REV.	-REVISION
R.G.	-ROUGH GRADE
ROV.	-ROOF OVERHANG
RP OR R.P.	-RADIUS POINT
RPP OR R.P.P.	-REDUCED PRESSURE PRINCIPAL
RR OR R.R.	-RAIL ROAD
RS4	-SINGLE FAMILY RESIDENCE
RT	-RIGHT
RW OR R.W.	-RIGHT OF WAY
RWG/ OR R.W.G.V.	-RESILIENT WEDGE GATE VALVE
RY.	-RAILWAY
S	-SOUTH
S/O	-SOUTH OF
S.C.C.P.	-STEEL CYLINDER CONCRETE PIPE
SD OR S.D.	-STORM DRAIN
SDMH OR S.D.M.H.	-STORM DRAIN MANHOLE
SECT.	-SECTION
SF OR S.F.	-SQUARE FEET
" OR SEC.	-SECOND
SHT OR SHT.	-SHEET
SPFWC OR S.P.P.W.C.	-STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
SLB OR S.L.B.	-SIGNAL LIGHT BOX
SO	-SQUARE
SL OR S.L.	-STREET LIGHT
SMH OR S.M.H.	-SEWER MANHOLE
SS OR S.S.	-SANITARY SEWER
SPEC.	-SPECIFICATIONS
ST OR ST.	-STREET
SL OR ST. LT.	-STREET LIGHT
STA.	-STATION
STD.	-STANDARD
STL OR STL.	-STEEL
STR.	-STRUCTURAL
S1S1E	-SURFACED 1 SIDE & 1 EDGE
S2S1E	-SURFACED 2 SIDES & 1 EDGE
S1S2E	-SURFACED 1 SIDE & 2 EDGES
S1S	-SURFACED 1 SIDE
S1E	-SURFACED 1 EDGE
S2S	-SURFACED 2 SIDES
S4E	-SURFACED 4 EDGES
SYM.	-SYMMETRICAL
TB OR T.B.	-TOP OF BERM
TC OR T.C.	-TOP OF CURB
TE OR T.E.	-TRASH ENCLOSURE
TEMP.	-TEMPERATURE
TERR.	-TERRACE
TF OR T.F.	-TOP OF FOOTING
TG OR T.G.	-TOP OF GRATE
THD.	-THREAD
TJ OR T.J.	-TRAFFIC INDEX
TJ OR T.J.	-TYTON JOINT
TMH OR T.M.H.	-TELEPHONE MANHOLE
TP OR T.P.	-TOP OF PIPE
TOS OR T.O.S.	-TOP OF SLOPE
T.P.	-TOP OF PLANTER
TRANS.	-TRANSITION
TRFLT	-TRAFFIC LIGHT
TRW OR T.R.W.	-TOP OF RETAINING WALL
TW OR T.W.	-TOP OF WALL
TS OR T.S.	-TOP OF STAIRS
TSB OR T.S.B.	-TRAFFIC SIGNAL BOX
TSBP	-TRAFFIC SIGNAL PULL BOX
TV OR T.V.	-TELEVISION
TYP OR T.Y.P.	-TYPICAL
UNK OR UNK.	-UNKNOWN
VAR.	-VARIES
VCP OR V.C.P.	-VERTIFIED CLAY PIPE
VERT.	-VERTICAL
W	-WEST
W/O	-WEST OF
WI	-WITH
WM OR W.M.	-WATER METER
WW OR W.V.	-WATER VALVE

TOPOGRAPHIC LEGEND	
CONTROL	
EDGE OF CONC.	
EDGE OF ASPH.	
EDGE OF DIRT	
AWNING	
BUILDING	
SIDEWALK	
CURB AND GUTTER	
FENCE	
WALL	
RETAINING WALL	
GUARD RAIL	
PIPE LINE	
PARKING STRIPES	
ROAD STRIPING	
POOL	
RAILROAD	
RAIL SIGNAL	
EXISTING ELEVATION	
EXISTING GRADE	
CONCENTRATED FLOW LINE	
SHEET FLOW DRAINAGE	
EXISTING WATER MAIN	
EXISTING SEWER MAIN	
EXISTING GAS LINE	
EXISTING ELECTRICAL CONDUIT	
EXISTING CABLE TV LINE	
EXISTING TELEPHONE LINE	
EXISTING STORM DRAIN	
EXISTING STORM DRAIN	
EXISTING OIL PIPELINE	
TANK	
VAULT	
DROP INLET	
VALVE	
CATCH BASIN	
WATER LINE	
FIRE HYDRANT	
MANHOLE	
STANDPIPE	
SIGN	
POWER POLE	
GUY WIRE	
STREET LIGHT	
STREET LIGHT	
MISCELLANEOUS	
TREES	
SINGLE TREE	
PALM	
INDEX CONTOUR	
INTER CONTOUR	

SITE IMPROVEMENT LEGEND	
CONSTRUCTION NOTE	
CONCRETE CURB LINE	
CONCRETE CURB & GUTTER	
DAYLIGHT LINE	
RIDGE LINE	
FLOW LINE	
CHAIN LINK FENCE	
GRADE BREAK	
REMOVAL AND RECOMPACTION (R&R) LIMITS	
SAWCUT	
PROPOSED CONDUIT	
EDGE OF A. C. PAVEMENT	
TRENCH DRAIN	
MASONRY WALL	
PROPOSED RETAINING WALL	
LIMITS OF GRADING AND PERMIT	
STORM DRAIN LINE (SIZE & TYPE PER PLAN)	
CONCRETE PAVING HEAVY DUTY (REF. SPECS. AND SOILS REPORT)	
CONCRETE PAVING LIGHT DUTY (REF. SPECS. AND SOILS REPORT)	
LANDSCAPE AREA (REF. SPECS. AND LANDSCAPE PLANS)	
HEAVY DUTY ASPHALTIC CONCRETE PAVING (REF. SPECS. AND SOILS REPORT)	
NORMAL DUTY (PARKING AREAS) ASPHALTIC CONCRETE PAVING (REF. SPECS. AND SOILS REPORT)	
LIGHT DUTY ASPHALTIC CONCRETE PAVING (REF. SPECS. AND SOILS REPORT)	
PROPOSED CATCH BASIN	
DOMESTIC OR IRRIGATION WATER METER & BOX	
TRANSITION COUPLING	
PROPOSED FIRE SERVICE LINE	
PROPOSED DOMESTIC WATER LINE	
PROPOSED SEWER LINE	
SEWER MANHOLE	
SEWER OR STORM DRAIN CLEAN-OUT	
EXISTING FIRE HYDRANT	

PAVEMENT LEGEND					
ASPHALT CONCRETE PAVEMENT SCHEDULE					
LOCATION/PAVEMENT UTILIZATION	TRAFFIC INDEX	AC SURFACE COURSE (IN)	CALTRANS CLASS 2 AGGREGATE BASE COURSE (IN)	COMPACTED SUBGRADE (IN)	
(A) LIGHT DUTY	-	3.0	-	6	
(B) NORMAL DUTY (PARKING AREAS)	5	2.5	8.0	6	
(C) HEAVY DUTY (MAJOR DRIVE LANES)	6	3.0	10.0	6	

NOTE:
THE FOREGOING PAVEMENT SECTIONS ASSUME THAT UTILITY TRENCH BACKFILL BELOW ALL PROPOSED PAVEMENT AREAS WILL BE COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION (ASTM D 1557). THE UPPER 8 INCHES OF SUBGRADE BELOW ASPHALT CONCRETE PAVEMENT AREAS SHOULD BE COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION. AGGREGATE BASE SHOULD BE DENSIFIED TO AT LEAST 95 PERCENT RELATIVE COMPACTION.

PORTLAND CEMENT CONCRETE PAVEMENT SCHEDULE:					
LOCATION/PAVEMENT UTILIZATION	TRAFFIC INDEX	PORTLAND CEMENT CONCRETE (IN)	CALTRANS CLASS 2 AGGREGATE BASE COURSE (IN)	COMPACTED SUBGRADE (IN)	
(A) LIGHT DUTY	-	4.0	-	6	
(B) HEAVY DUTY	-	6.0	-	6	

NOTE:
REFERENCE ARCHITECTURAL PLANS FOR CONCRETE PAVEMENT SECTIONS.

FLOOD ZONE

FLOOD ZONE: X
FIRM PANEL: 06037C1875F
EFFECTIVE DATE: 09-26-2008
ROWLAND HIGH SCHOOL IS LOCATED IN AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

GENERAL NOTES

- CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE AND DEPTH OF EXISTING UNDERGROUND UTILITIES AND POTHOLE AT ALL POINTS OF CONNECTION AND PROPOSED UTILITY CROSSINGS, PRIOR TO COMMENCING CONSTRUCTION.
- SANITARY SEWER AND STORM DRAIN CLEANOUTS SHOWN OR NOT SHOWN ON THIS PLAN SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED ONE HUNDRED FEET (100) IN TOTAL DEVELOPED LENGTH AND ANY CHANGE OF HORIZONTAL DIRECTION EXCEEDING ONE HUNDRED-THIRTY FIVE DEGREES (135°), AND PER UNIFORM PLUMBING CODE REQUIREMENTS.
- PROVIDE CATCH BASIN FILTER INSERTS TO PROPOSED ON-SITE INLET BASINS.

SITE PREPARATION NOTES

PER GEOTECHNICAL INVESTIGATION REPORT PREPARED BY JOHN R. BYERLY, INC. DATED DECEMBER 22, 2013.

WE ASSUME THAT THE SITE WILL BE PREPARED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE OR THE CURRENT CITY OF ROWLAND HEIGHTS GRADING ORDINANCE. THE RECOMMENDATIONS PRESENTED BELOW ARE THE ESTABLISHED ADDITIONAL GRADING CRITERIA. THESE RECOMMENDATIONS SHOULD BE CONSIDERED PRELIMINARY AND ARE SUBJECT TO MODIFICATION OR EXPANSION BASED ON A GEOTECHNICAL REVIEW OF THE PROJECT FOUNDATION AND GRADING PLANS.

- ALL AREAS TO BE GRADED SHOULD BE STRIPPED OF ORGANIC MATTER, MAN-MADE OBSTRUCTIONS, AND OTHER DELETERIOUS MATERIALS. UNDERGROUND UTILITIES SHOULD BE REMOVED AND RELOCATED OR ABANDONED. ALL CAVITIES CREATED DURING SITE CLEARING SHOULD BE CLEANED OF LOOSE AND DISTURBED SOIL, SHAPED TO PROVIDE ACCESS FOR CONSTRUCTION EQUIPMENT, AND BACKFILLED WITH FILL PLACED AND COMPACTED AS DESCRIBED BELOW.
- ARTIFICIAL FILL SHOULD BE REMOVED FROM ALL IMPROVEMENT AREAS. THE MAXIMUM DEPTH OF EXISTING ARTIFICIAL FILL ENCOUNTERED IN OUR TEST BORINGS WAS 9 FEET. THE EXISTING ARTIFICIAL FILL MAY EXTEND TO GREATER DEPTHS IN AREAS NOT EXPLORED.
- OVEREXCAVATION
 - BUILDING AREA - THE NATURAL SOIL ENCOUNTERED IN THE TEST BORINGS IMMEDIATELY UNDERLYING THE EXISTING ARTIFICIAL FILL WAS MEDIUM DENSE TO VERY DENSE AND STIFF TO HARD AND IS CONSIDERED COMPETENT. SHOULD REMOVAL OF THE EXISTING ARTIFICIAL FILL EXPOSE NATURAL SOIL EXHIBITING A RELATIVE COMPACTION OF LESS THAN 85 PERCENT (ASTM D 1557), THE LOOSE NATURAL SOIL SHOULD BE OVEREXCAVATED UNTIL UNDISTURBED SOIL EXHIBITING A RELATIVE COMPACTION OF AT LEAST 85 PERCENT IS ENCOUNTERED. WHEN COMPETENT NATURAL SOIL IS ENCOUNTERED, THE OVEREXCAVATION CAN BE TERMINATED AT THAT DEPTH AS LONG AS THERE WILL BE AT LEAST 24 INCHES OF COMPACTED FILL BELOW ALL FOOTINGS. COMPETENT NATURAL SOIL IS DEFINED AS UNDISTURBED MATERIAL EXHIBITING A RELATIVE COMPACTION OF AT LEAST 85 PERCENT (ASTM D 1557). THE OVEREXCAVATION SHOULD EXTEND BEYOND THE BUILDING AREAS A HORIZONTAL DISTANCE AT LEAST EQUAL TO THE DEPTH OF OVEREXCAVATION BELOW THE FINAL SURFACE OR 5 FEET, WHICHEVER DISTANCE IS GREATER. A REPRESENTATIVE OF THIS FIRM SHOULD OBSERVE THE BOTTOM OF ALL EXCAVATIONS.
 - HARDSCAPE AREAS - THE NATURAL SOILS BELOW PORTLAND CEMENT CONCRETE HARDSCAPE AREAS SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 12 INCHES BELOW EXISTING GRADE OR 12 INCHES BELOW PROPOSED FINISHED GRADE, WHICHEVER IS DEEPER. FINISHED GRADE IS DEFINED AS THE ELEVATION OF THE TOP OF THE SUBGRADE. THE SCARIFIED SOILS SHOULD BE MOISTENED TO AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT AND DENSIFIED TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT (ASTM D 1557).
- SUBEXCAVATED SURFACES AND ALL OTHER SURFACES TO RECEIVE FILL SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 8 INCHES AND MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT, AND DENSIFIED TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT (ASTM D 1557).
- THE ON-SITE SOILS SHOULD PROVIDE ADEQUATE QUALITY FILL MATERIAL PROVIDED THEY ARE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS AND ARE AT ACCEPTABLE MOISTURE CONTENTS. IMPORT FILL SHOULD BE INORGANIC GRANULAR NON-EXPANSIVE SOIL FREE FROM ROCKS OR LUMPS GREATER THAN 8 INCHES IN MAXIMUM DIMENSION AND SHOULD EXHIBIT A VERY LOW EXPANSION POTENTIAL (EXPANSION INDEX LESS THAN 21), NEGLIGIBLE SULFATE CONTENT (LESS THAN 1,000 PPM SOLUBLE SULFATE BY WEIGHT), AND LOW CORROSION POTENTIAL. PRIOR TO BRINGING IMPORT FILL TO THE SITE, THE CONTRACTOR SHOULD OBTAIN CERTIFICATION TO VERIFY THAT THE PROPOSED IMPORT MEETS THE STATE OF CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCE CONTROL (DTS) ENVIRONMENTAL STANDARDS. PROPOSED IMPORT SHOULD BE SAMPLED AT THE SOURCE AND TESTED BY THIS FIRM FOR EXPANSION INDEX, SOLUBLE SULFATE CONTENT, AND CORROSION POTENTIAL.
- ALL FILL SHOULD BE PLACED IN 8-INCH OR LESS LIFTS AND EACH LIFT SHOULD BE MOISTURE CONDITIONED. CLAYEY SOIL SHOULD BE MOISTURE CONDITIONED TO AT LEAST 2 PERCENT OVER OPTIMUM MOISTURE CONTENT. FILL WITH NO SIGNIFICANT CLAY CONTENT SHOULD BE MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. ALL ENGINEERED FILL SHOULD BE DENSIFIED TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT (ASTM D 1557).

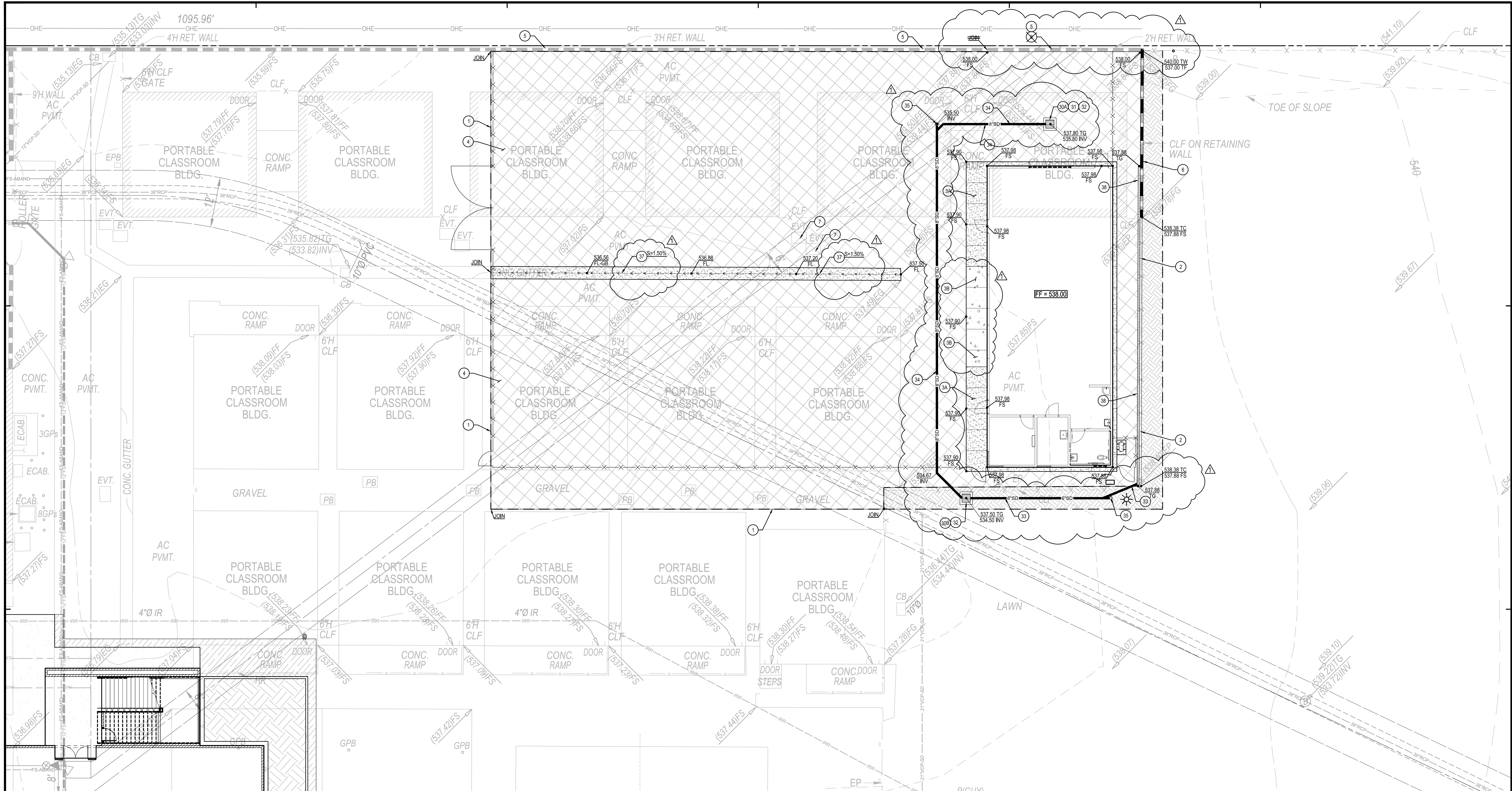
THE SURFACE OF THE SITE SHOULD BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE STRUCTURE. DRAINAGE SHOULD BE DIRECTED TO ESTABLISHED SWALES AND THEN TO APPROPRIATE DRAINAGE STRUCTURES TO MINIMIZE THE POSSIBILITY OF EROSION. WATER SHOULD NOT BE ALLOWED TO POND ADJACENT TO FOOTINGS.

PER GEOTECHNICAL INVESTIGATION REPORT PREPARED BY JOHN R. BYERLY, INC. DATED MAY 22, 2018.

SITE PREPARATION

WE ASSUME THAT THE SITE WILL BE PREPARED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE OR THE CURRENT CITY OF ROWLAND HEIGHTS GRADING ORDINANCE. THE RECOMMENDATIONS PRESENTED BELOW ARE TO ESTABLISH ADDITIONAL GRADING CRITERIA. THESE RECOMMENDATIONS SHOULD BE CONSIDERED PRELIMINARY AND ARE SUBJECT TO MODIFICATION OR EXPANSION BASED ON A GEOTECHNICAL REVIEW OF THE PROJECT FOUNDATION AND GRADING PLANS.

- ALL AREAS TO BE GRADED SHOULD BE STRIPPED OF ORGANIC MATTER, MAN-MADE OBSTRUCTIONS, AND OTHER DELETERIOUS MATERIALS. UNDERGROUND UTILITIES SHOULD BE REMOVED AND RELOCATED OR ABANDONED. ALL CAVITIES CREATED DURING SITE CLEARING SHOULD BE CLEANED OF LOOSE AND DISTURBED SOIL, SHAPED TO PROVIDE ACCESS FOR CONSTRUCTION EQUIPMENT, AND BACKFILLED WITH FILL PLACED AND COMPACTED AS DESCRIBED BELOW.
- EXISTING ARTIFICIAL FILL SHOULD BE REMOVED BELOW THE NEW CUSTODIAL BUILDING AREA. ARTIFICIAL FILL WAS ENCOUNTERED IN OUR EXPLORATIONS TO DEPTHS RANGING FROM 2.0 FEET TO 3.0 FEET. THE EXISTING ARTIFICIAL FILL MAY EXTEND TO GREATER DEPTHS IN AREAS NOT EXPLORED. THE REMOVALS SHOULD EXTEND BEYOND THE NEW BUILDING AREA A HORIZONTAL DISTANCE AT LEAST EQUAL TO THE DEPTH OF REMOVAL OR 5 FEET, WHICHEVER DISTANCE IS GREATER. THE EXISTING ARTIFICIAL FILL NEED NOT BE REMOVED TO DEPTHS GREATER THAN 3 FEET WITHIN PROPOSED PAVEMENT AREAS. ORGANIC MATTER AND OTHER UNSUITABLE DEBRIS SHOULD BE SEPARATED FROM THE REMOVED FILL AND HAULED FROM THE SITE. THE REMOVED ARTIFICIAL FILL SHOULD BE STOCKPILED PENDING REPLACEMENT OR BE PLACED IN AREAS PREVIOUSLY PREPARED.
- OVEREXCAVATION
 - CUSTODIAL BUILDING AREA - THE EXISTING ARTIFICIAL FILL UNDERLYING THE BUILDING AREA SHOULD BE REMOVED AS DESCRIBED ABOVE. THE NATURAL SOIL EXPOSED IN THE BOTTOM OF THE OVEREXCAVATION SHOULD BE EVALUATED BY THE REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. NATURAL SOIL EXHIBITING A RELATIVE COMPACTION OF LESS THAN 85 PERCENT SHOULD BE FURTHER OVEREXCAVATED UNTIL UNDISTURBED SOIL EXHIBITING A RELATIVE COMPACTION OF AT LEAST 85 PERCENT IS ENCOUNTERED. THE OVEREXCAVATION SHOULD EXTEND BEYOND THE BUILDING AREA A HORIZONTAL DISTANCE AT LEAST EQUAL TO THE DEPTH OF OVEREXCAVATION BELOW THE FINAL GROUND SURFACE OR 5 FEET, WHICHEVER DISTANCE IS GREATER. A REPRESENTATIVE OF THIS FIRM SHOULD OBSERVE THE BOTTOM OF ALL EXCAVATIONS.
 - HARDSCAPE AREAS - SHOULD NATURAL SOIL BE ENCOUNTERED AT A DEPTH OF LESS THAN 3 FEET BELOW PORTLAND CEMENT CONCRETE PAVEMENT AREAS, THE SOILS EXPOSED IN THE SUBEXCAVATED SURFACE SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 12 INCHES. THE SCARIFIED SOIL SHOULD BE MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT, AND DENSIFIED TO A RELATIVE COMPACTION OF AT LEAST 90 PERCENT (ASTM D1557).
- THE EXPLORATION DATA INDICATE HIGH MOISTURE CONTENTS WILL LIKELY BE PRESENT IN THE SOILS EXPOSED IN THE SUBEXCAVATED SURFACES, AND INSTABILITY OR "PUMPING" MAY BE ENCOUNTERED. STABILIZATION OF MODERATE PUMPING CAN BE ACHIEVED BY PLACEMENT OF GEOGRID, SUCH AS TENSAR BXT100, ON THE SUBEXCAVATED SURFACE FOLLOWED BY GRAVEL SUCH AS CLASS 2 AGGREGATE BASE (CALTRANS SPECIFICATIONS) OR CRUSHED MISCELLANEOUS BASE (GREENBOOK SPECIFICATIONS). THE THICKNESS OF GRAVEL NEEDED TO STABILIZE THE SUBEXCAVATED SURFACE SOIL WILL DEPEND ON THE SEVERITY OF INSTABILITY, BUT A MINIMUM OF 12 INCHES OF GRAVEL SHOULD BE ANTICIPATED. FIELD CONDITIONS ENCOUNTERED IN THE SUBEXCAVATION WILL DETERMINE THE ACTUAL THICKNESS OF GRAVEL REQUIRED.
- SUBEXCAVATED SURFACES THAT DO NOT REQUIRE GEOTECHNICAL AGGREGATE BASE STABILIZATION, AND ALL OTHER SURFACES TO RECEIVE FILL SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 8 INCHES, MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT, AND DENSIFIED TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT (ASTM D1557).
- THE ON-SITE SOILS SHOULD PROVIDE ADEQUATE QUALITY FILL MATERIAL PROVIDED THEY ARE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS AND ARE AT ACCEPTABLE MOISTURE CONTENTS. IMPORT FILL SHOULD BE INORGANIC GRANULAR NON-EXPANSIVE SOIL FREE FROM ROCKS OR LUMPS GREATER THAN 8 INCHES IN MAXIMUM DIMENSION AND SHOULD EXHIBIT A VERY LOW EXPANSION POTENTIAL (EXPANSION INDEX LESS THAN 21), NEGLIGIBLE SULFATE CONTENT (LESS THAN 1,000 PPM SOLUBLE SULFATE BY WEIGHT), AND LOW CORROSION POTENTIAL. PRIOR TO BRINGING IMPORT FILL TO THE SITE, THE CONTRACTOR SHOULD OBTAIN CERTIFICATION TO VERIFY THAT THE PROPOSED IMPORT MEETS THE STATE OF

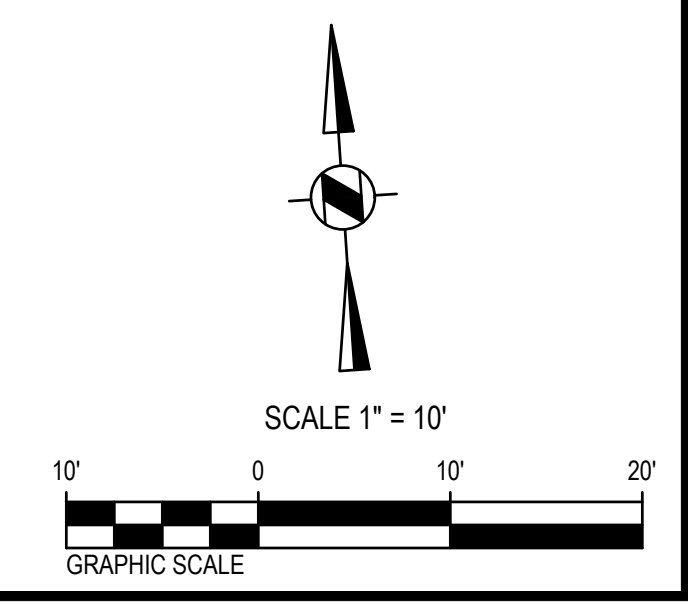
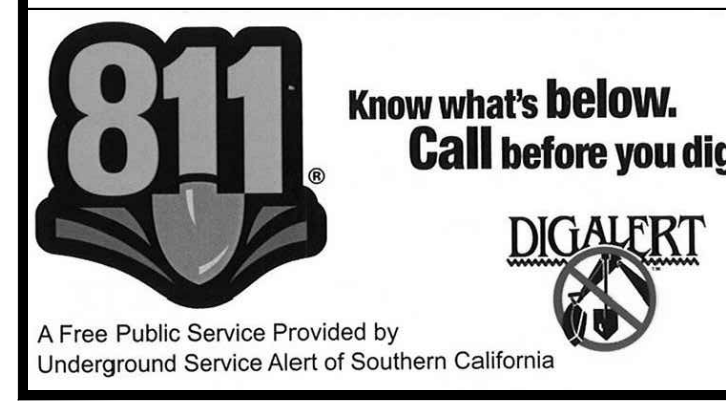


CONSTRUCTION NOTES: PRECISE GRADING

- 1 SAWCUT AND REMOVE EXISTING A.C. PAVEMENT AND BASE TO THE LIMITS SHOWN. REFERENCE ARCHITECTURAL PLANS FOR LIMITS OF DEMOLITION.
- 2 CONSTRUCT P.C.C. CURB, TYPE A1-6 (150), PER SPPWC STD. PLAN 120-2. REFERENCE DETAIL 1 ON SHEET C4.01.
- 3A CONSTRUCT 4" THICK PCC PEDESTRIAN PAVEMENT. PREPARE SUBGRADE PER THE GEOTECHNICAL RECOMMENDATIONS REFERENCED ON SHEET C0.02. INSTALL NO. 4 BARS SPACED AT 18 INCHES ON CENTER BOTH WAYS, AND PLACED IN THE MIDDLE THIRD OF THE SLAB SECTION. REFERENCE ARCHITECTURAL PLANS FOR CONCRETE PAVING DETAILS AND JOINT LAYOUT.
- 3B CONSTRUCT 6" THICK PCC PEDESTRIAN PAVEMENT. PREPARE SUBGRADE PER THE GEOTECHNICAL RECOMMENDATIONS REFERENCED ON SHEET C0.02. INSTALL NO. 4 BARS SPACED AT 18 INCHES ON CENTER BOTH WAYS, AND PLACED IN THE MIDDLE THIRD OF THE SLAB SECTION. REFERENCE ARCHITECTURAL PLANS FOR CONCRETE PAVING DETAILS AND JOINT LAYOUT.
- 4 CONSTRUCT 3" THICK A.C. PAVEMENT OVER 10" C.A.B. PREPARE SUBGRADE PER THE GEOTECHNICAL RECOMMENDATIONS REFERENCED ON SHEET C0.02.
- 5 EXISTING CMU RETAINING WALL, TO REMAIN.
- 6 EXISTING CMU RETAINING WALL, TO BE REMOVED. CONSTRUCT 3' HIGH CMU RETAINING WALL. REFERENCE ARCHITECTURAL PLANS AND STRUCTURAL PLANS FOR STRUCTURAL DETAILS. REFERENCE DETAIL 4 ON SHEET S7.1.
- 7 EXISTING UTILITY STRUCTURE, TO REMAIN. ADJUST TO GRADE. PROVIDE GRADE RINGS AS NECESSARY.

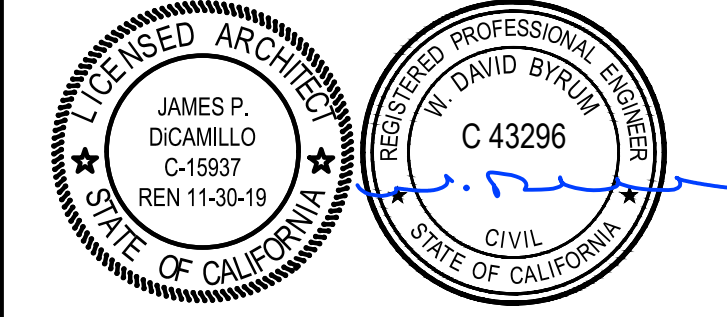
CONSTRUCTION NOTES: STORM DRAIN

- 30A INSTALL 24" x 24" CATCH BASIN, BROOKS PRODUCTS MODEL NO. 2424 CB OR APPROVED EQUAL, WITH TRAFFIC GRADE FRAME AND GRATE. REFERENCE DETAIL 1 ON SHEET C4.02.
- 30B INSTALL 24" x 24" CATCH BASIN, BROOKS PRODUCTS MODEL NO. 2424 CB OR APPROVED EQUAL, WITH TRAFFIC GRADE FRAME AND GRATE. REFERENCE DETAIL 1 ON SHEET C4.02. INSTALL CATCH BASIN WITH OPEN BOTTOM PER DETAIL 6 ON SHEET C4.01.
- 31 INSTALL KRISTAR FLOGARD PLUS CATCH BASIN FILTER INSERT, OR APPROVED EQUAL. REFERENCE DETAIL 2 ON SHEET C4.02.
- 32 INSTALL NOTICE ON CATCH BASIN STATING "NO DUMPING-THIS DRAINS TO OCEAN". REFERENCE DETAIL 3 ON SHEET C4.02.
- 33 INSTALL 6" P.V.C. STORM DRAIN PIPE, SDR 35, OR APPROVED EQUAL.
- 34 INSTALL 6" P.V.C. STORM DRAIN PIPE, SDR 35, OR APPROVED EQUAL.
- 35 INSTALL STORM DRAIN CLEAN-OUT. REFERENCE DETAIL 4 ON SHEET C4.01.
- 36 INSTALL SADDLE CONNECTION PER S.P.P.W.C. STANDARD PLAN 335-2, CASE 2. REFERENCE DETAIL 5 ON SHEET C4.01.
- 37 CONSTRUCT PCC LONGITUDINAL GUTTER. REFERENCE DETAIL 2 ON SHEET C4.01.
- 38 INSTALL 6" WIDE TRENCH DRAIN, ACO KLASSIK DRAIN K100, OR APPROVED EQUAL, WITH GALVANIZED STEEL LONGITUDINAL GRATE, ACO TYPE 438D437D, OR APPROVED EQUAL. REFERENCE DETAILS 4 AND 5 ON SHEET C4.02.



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 www.wlarchitects.com

ROWLAND HIGH SCHOOL BUILDING
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 ROWLAND UNIFIED SCHOOL DISTRICT
 2000 OTTERBEIN AVE
 ROWLAND HEIGHTS, CA



CONSULTANT
CIVILTEC engineering inc.
 118 West Lime Avenue
 Monrovia, CA 91016
 Phone: 626.357.0588
 Fax: 626.303.7957
 Web: www.civiltec.com

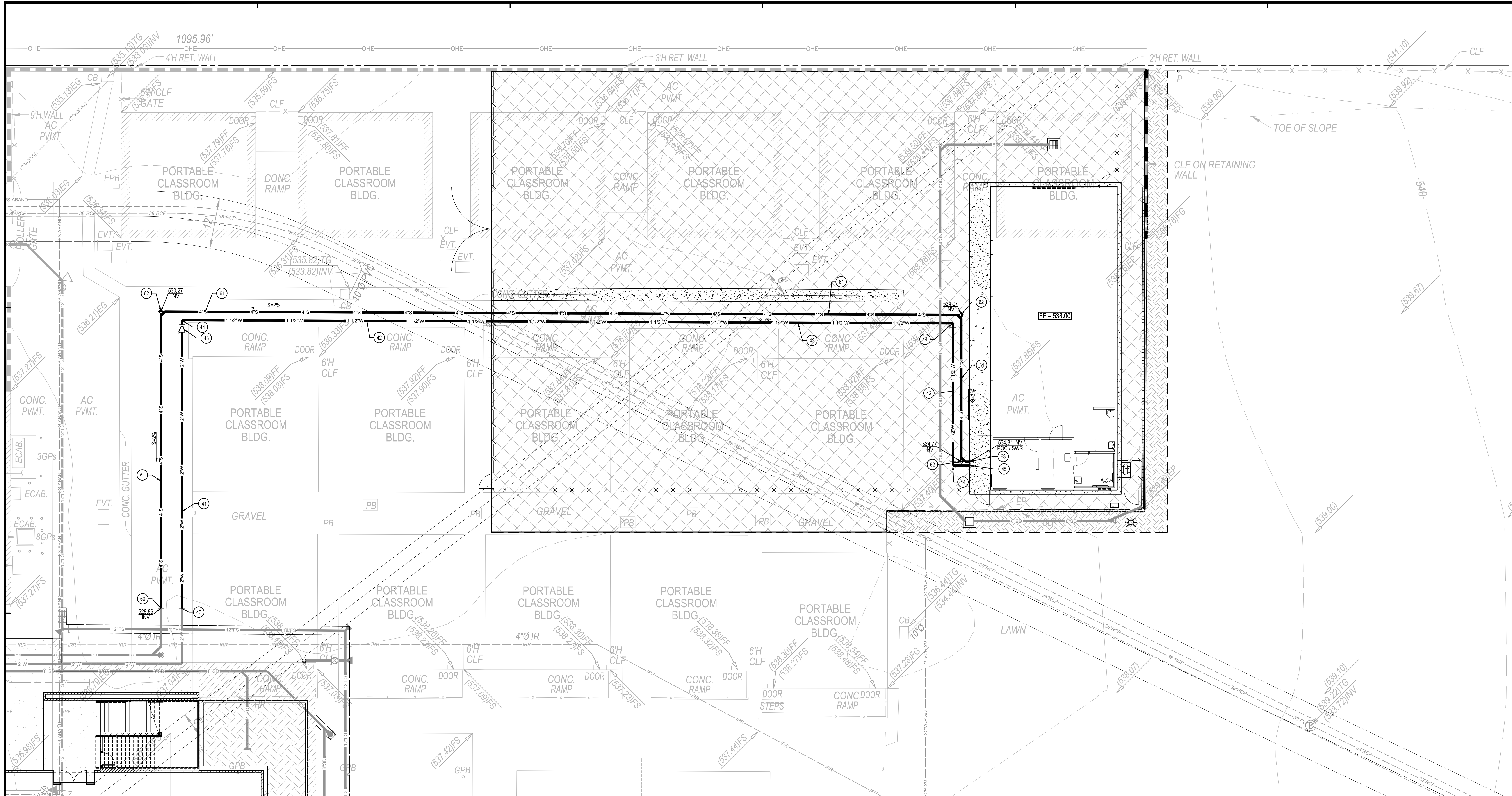
REGISTRATION STAMP
 OFFICE OF REGULATION SERVICES
 APPL 03-119243
 AC _____ FS _____ SS _____
 DATE _____

NO	DATE	BY	DESCRIPTION

DRAWN: CEI	CHECKED: CEI
DATE: 09/27/2018	SCALE: AS SHOWN
PROJECT NUMBER: 1619700.00	

PRECISE GRADING PLAN

DRAWING NUMBER: **C2.01**

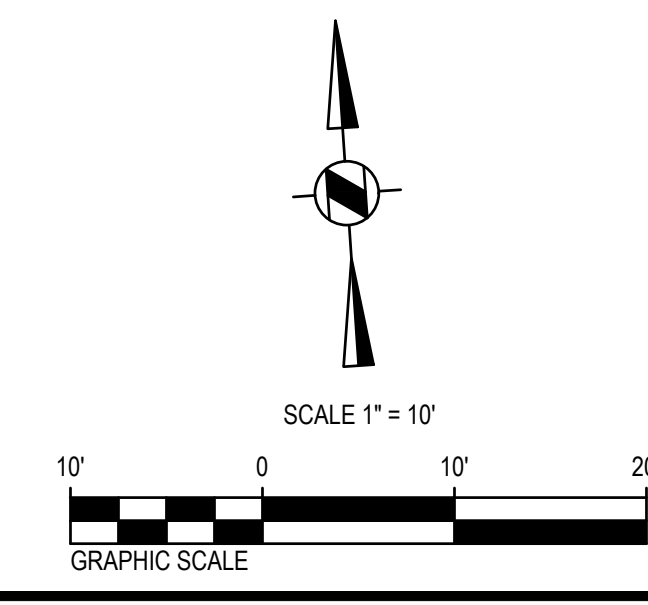
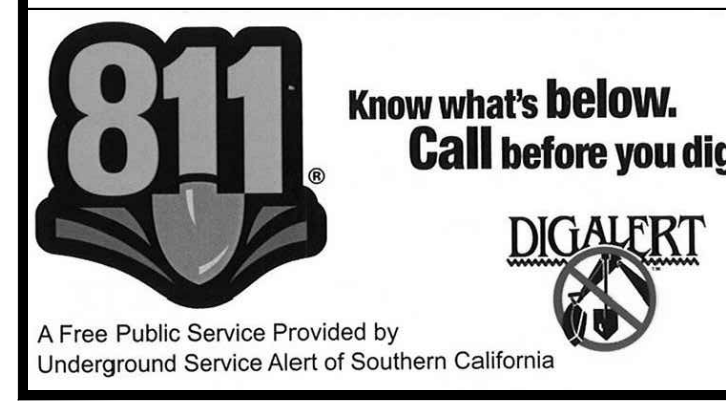


CONSTRUCTION NOTES: DOMESTIC WATER

- 40) CONNECT TO EXISTING 2" WATER LINE. FIELD VERIFY LOCATION, SIZE AND DEPTH PRIOR TO CONSTRUCTION. INSTALL FITTINGS AS NECESSARY.
- 41) INSTALL 2" DOMESTIC WATER PIPE LINE.
- 42) INSTALL 1 1/2" DOMESTIC WATER PIPE LINE.
- 43) INSTALL 2" x 1 1/2" REDUCER.
- 44) INSTALL 1 1/2" - 90° BEND.
- 45) REFER TO BUILDING PLUMBING PLANS FOR LOCATIONS, ELEVATION AND SIZE OF PIPE.

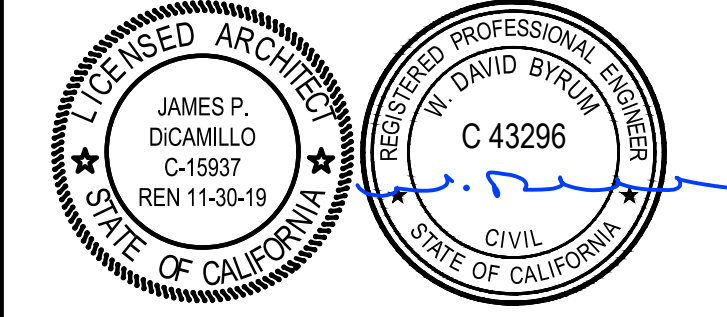
CONSTRUCTION NOTES: SANITARY SEWER

- 60) CONNECT TO EXISTING 4" SEWER LINE. FIELD VERIFY LOCATION, SIZE AND DEPTH PRIOR TO CONSTRUCTION. INSTALL FITTINGS AS NECESSARY.
- 61) INSTALL 4" PVC SANITARY SEWER, SDR 35.
- 62) INSTALL SANITARY SEWER CLEAN-OUT. REFERENCE DETAIL 4 ON SHEET C4.01.
- 63) REFER TO BUILDING PLUMBING PLANS FOR LOCATIONS, ELEVATION AND SIZE OF PIPE.



ARCHITECTS
WLC
 CLIENT FOCUSED • PASSION DRIVEN
SOUTHERN CALIFORNIA
 8163 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA
 CALIFORNIA 91730-0729
 TEL: 909-987-0909
 www.wlccarchitects.com

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 ROWLAND UNIFIED SCHOOL DISTRICT
 2000 OTTERBEIN AVE
 ROWLAND HEIGHTS, CA



CONSULTANT

 118 West Lime Avenue
 Monrovia, CA 91016
 Phone: 626.357.0588
 Fax: 626.303.7957
 Web: www.civiltec.com

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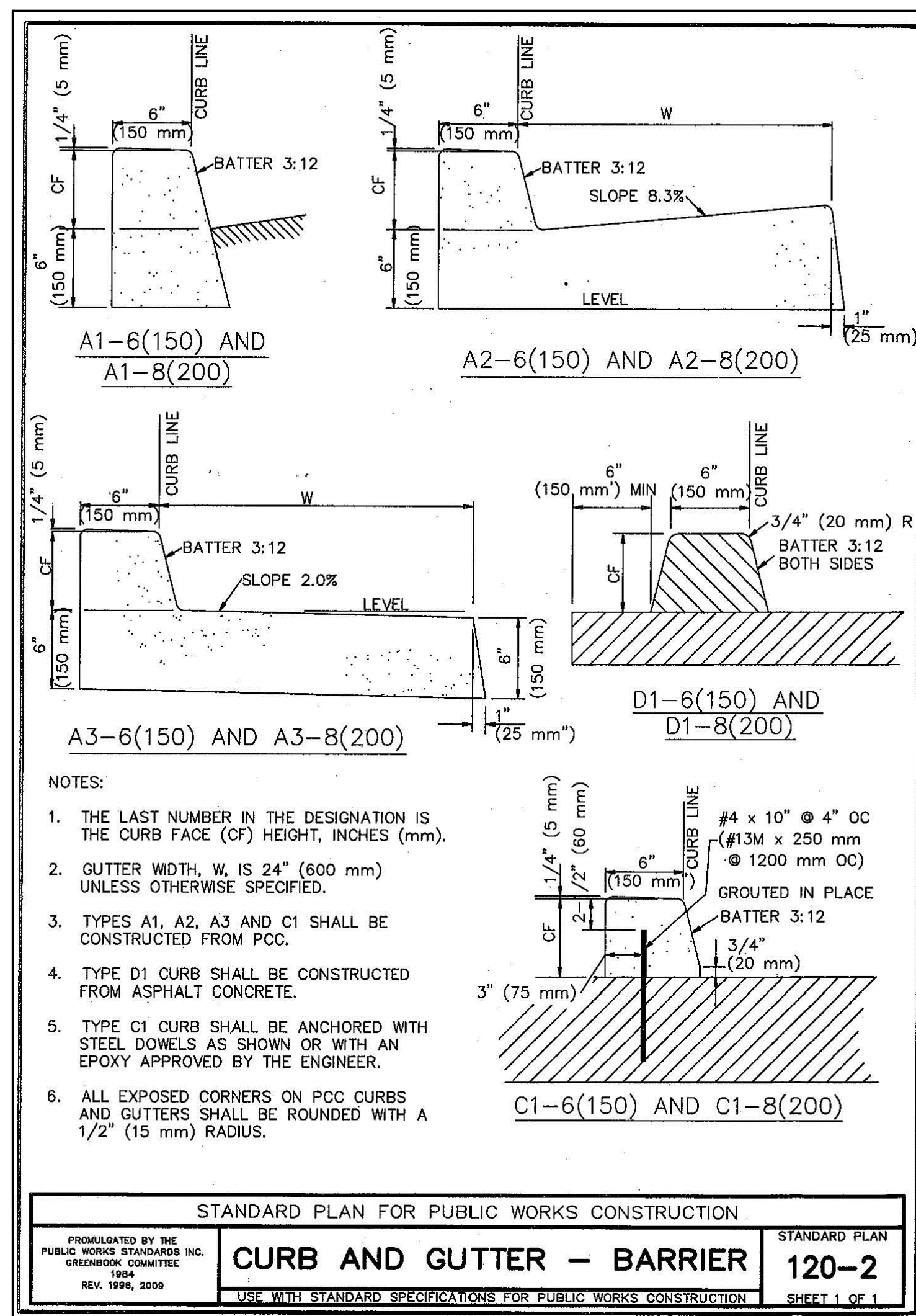
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REVISIONS			

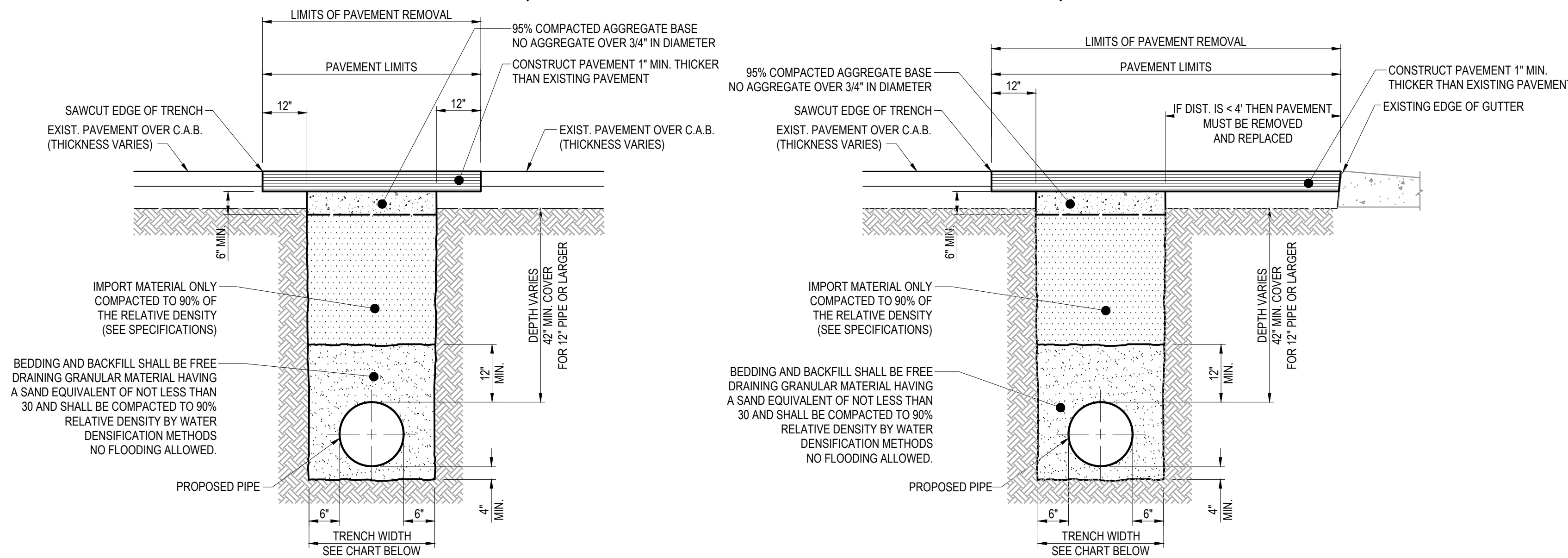
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PROJECT NUMBER: 1619700.00	

UTILITY PLAN

DRAWING NUMBER: **C3.01**



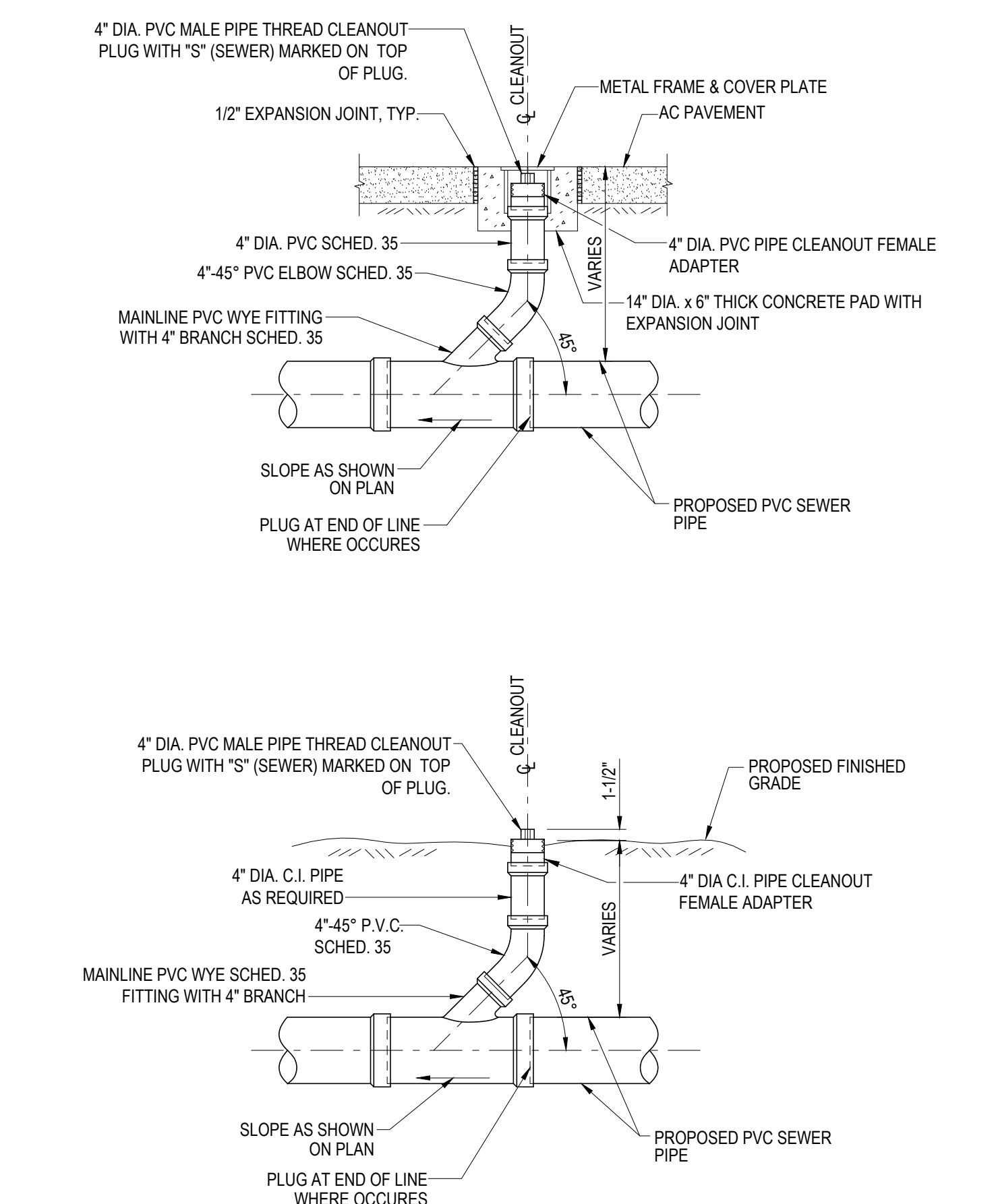
1 CURB AND GUTTER - BARRIER



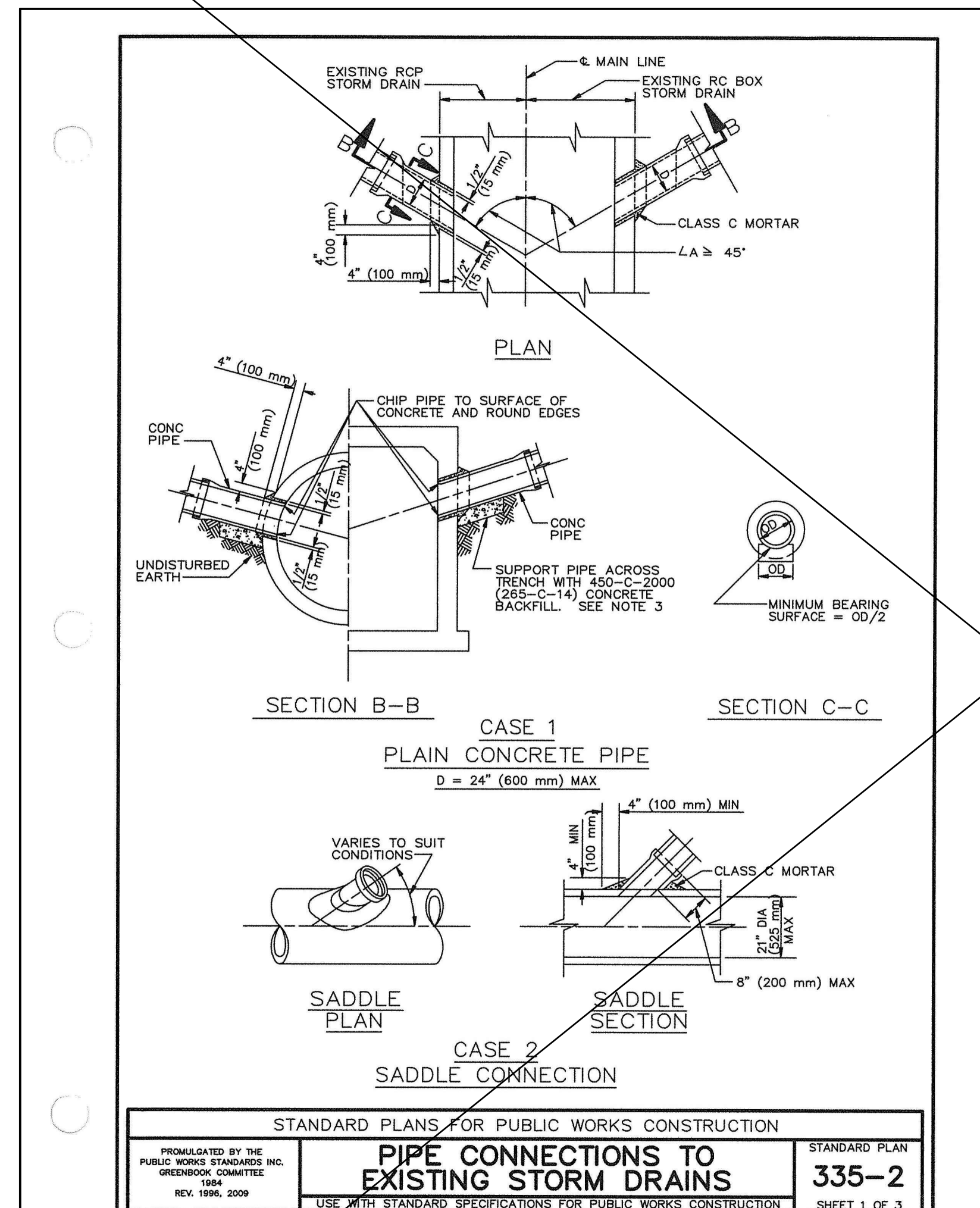
PIPE SIZE (D)	4"	6"	8"	10"	12"	14"	16"	20"	24"	30"
MAXIMUM ALLOWED TRENCH WIDTH	20"	20"	20"	22"	24"	26"	28"	32"	36"	42"

- NOTES:**
- MINIMUM WIDTH OF TRENCH REPAIR SHALL BE 18".
 - A SAND SLURRY BACKFILL WITH (1) SACK OF CEMENT PER CUBIC YARD MAY BE REQUIRED BY THE INSPECTOR AT EXISTING UTILITY CROSSINGS.
 - ALL TRENCHES SHALL BE BACKFILLED BEFORE THE CLOSE OF EACH DAY'S WORK, OR THE EXCAVATION COMPLETELY COVERED OR FENCED TO A HEIGHT OF 5' OR TO THE SATISFACTION OF THE CITY ENGINEER. STEEL PLATING MAY BE USED IF APPROVED BY THE ENGINEERING DEPARTMENT.

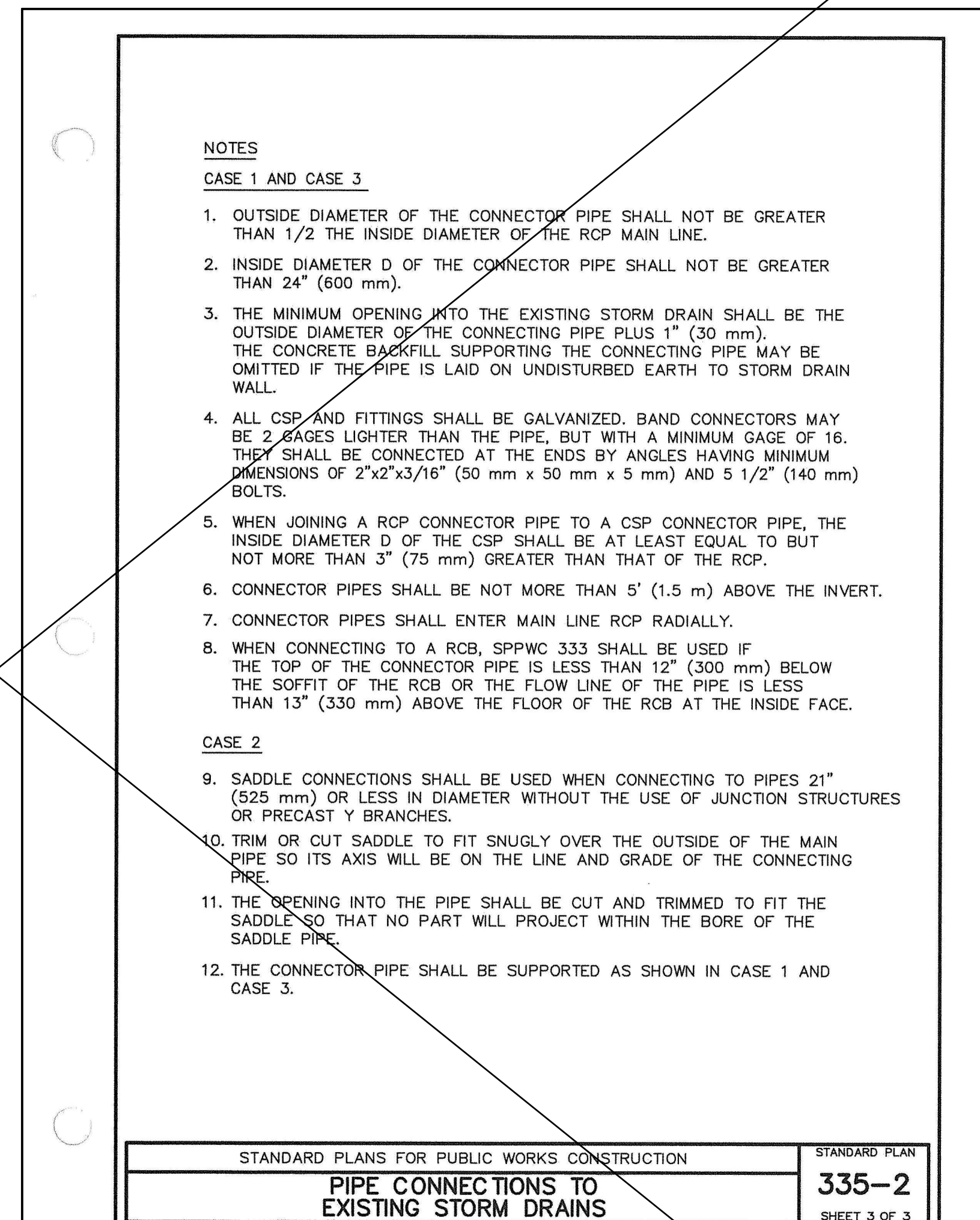
3 TYPICAL TRENCH DETAIL



4 SANITARY SEWER CLEAN-OUT



5 PIPE CONNECTION TO EXISTING STORM DRAIN



6 OPEN BOTTOM CATCH BASIN

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SOUTHERN CALIFORNIA
 8163 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA
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LICENCED ARCHITECT
 JAMES P. DICAMILLO
 C-15937
 REN 11-30-19
 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
 J. DAVID BYRUM
 C 43296
 CIVIL
 STATE OF CALIFORNIA

CONSULTANT
CIVILTEC engineering inc.
 118 West Line Avenue
 Monrovia, CA 91016
 Phone: 626.357.0588
 Fax: 626.303.7957
 Web: www.civiltec.com

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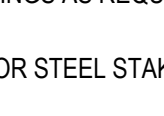
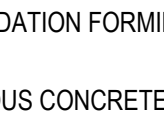
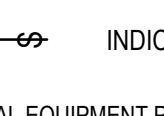
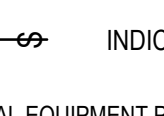
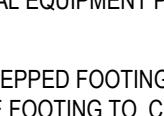
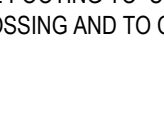
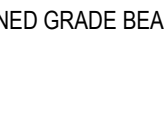
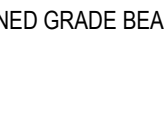
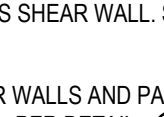
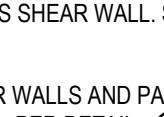
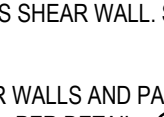
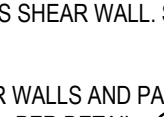
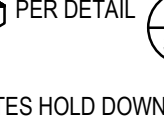
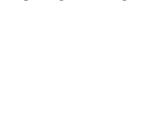
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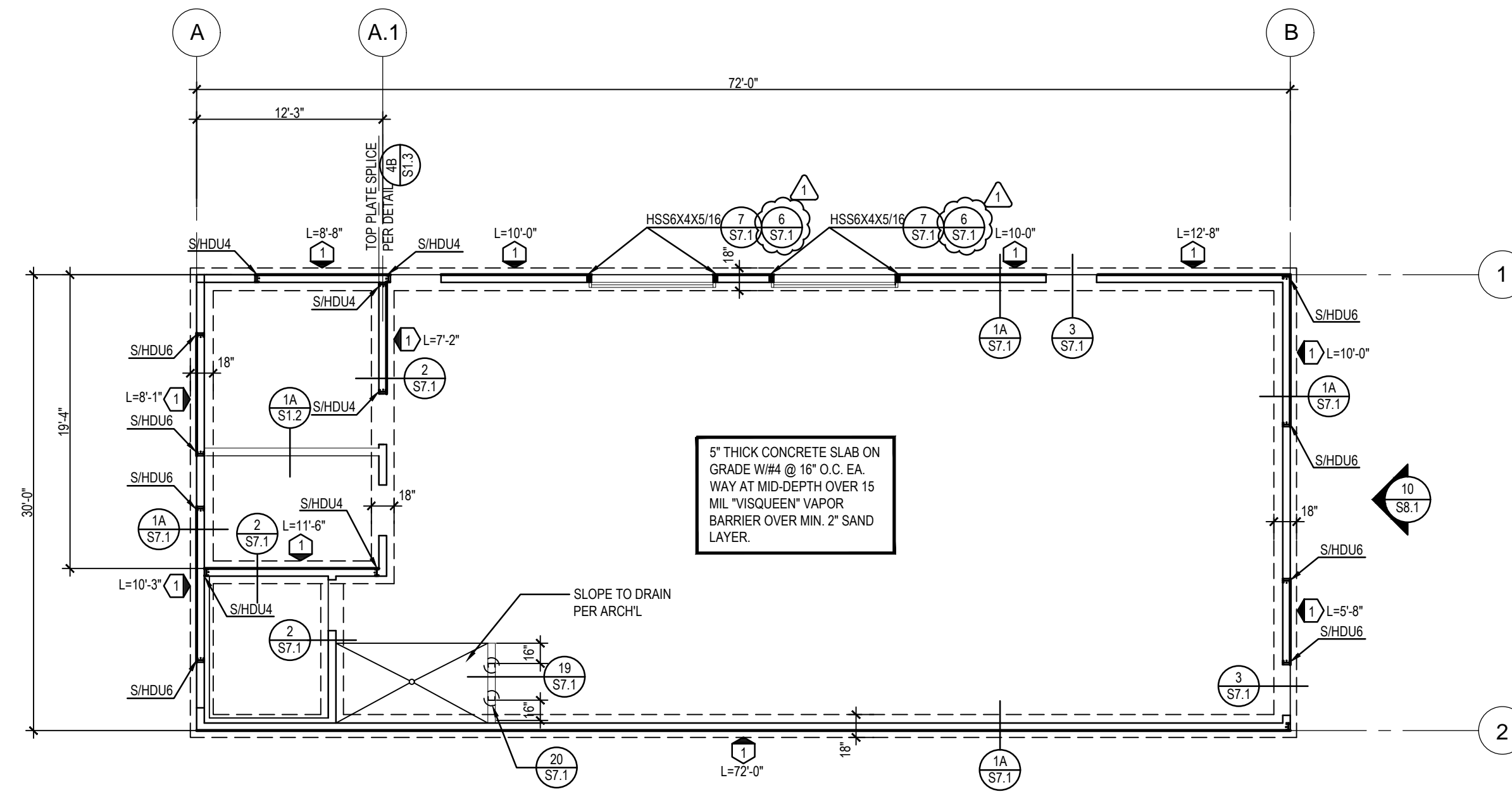
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**IMPROVEMENT
 PLAN DETAILS**

DRAWING NUMBER: **C4.01**

FOUNDATION NOTES:

1. PRIOR TO POURING CONCRETE, THE FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY THE PROJECT INSPECTOR, THE GEO-TECHNICAL ENGINEER, & S.E.O.R. PER TITLE 24 CCR.
2. SEE ARCHITECTURAL OR CIVIL DRAWINGS FOR ALL SITE WORK.
3. ALL SLEEVES BELOW FOOTINGS MUST BE POURED-IN-PLACE PRIOR TO POURING SLAB.
4. FOR INTERIOR FLOOR SLAB SLOPE, FLOOR DRAINS, ETC. SEE ARCHITECTURAL DRAWINGS PRIOR TO POURING SLAB.
5. ALL ELECTRICAL PLUMBING AND OTHER UNDERGROUND WORK SHALL CONFORM TO DETAIL .
6. STEP FOOTINGS AS REQUIRED PER DETAIL .
7. NO WOOD OR STEEL STAKES SHALL BE PERMITTED IN FOOTINGS.
8. FOR FOUNDATION FORMING OF TRENCHES, SEE DETAIL .
9. CONTINUOUS CONCRETE FOOTINGS SHALL HAVE MIN. 2# 5 CONT. REINFORCING TOP AND BOTTOM TYPICAL U.N.O.
10.  INDICATES STEP FOOTING SEE DET .
11. FOR TYPICAL EQUIPMENT PAD SEE DETAIL .
12. PROVIDE STEPPED FOOTING AS REQUIRED FOR ALL BUILDING FOOTING AND SITE STRUCTURE FOOTING TO COMPLY TO ELEVATION CHANGES AND TO CLEAR ALL UTILITY CROSSING AND TO CLEAR THE 2:1 CRITERIA IN DETAIL .
13. FOR THICKENED GRADE BEAM AT UTILITY CONDUIT SEE DETAILS  .
14.  INDICATES SHEAR WALL. SEE WALL SCHEDULE ON  AND DETAILS  .
15. ALL EXTERIOR WALLS AND PARAPETS NOT NOTED AS SHEAR WALL SHALL RECEIVE PLYWOOD PER DETAIL  U.N.O. SEE PLAN.
16. "HDU" INDICATES HOLD DOWN ANCHOR. SEE DET .

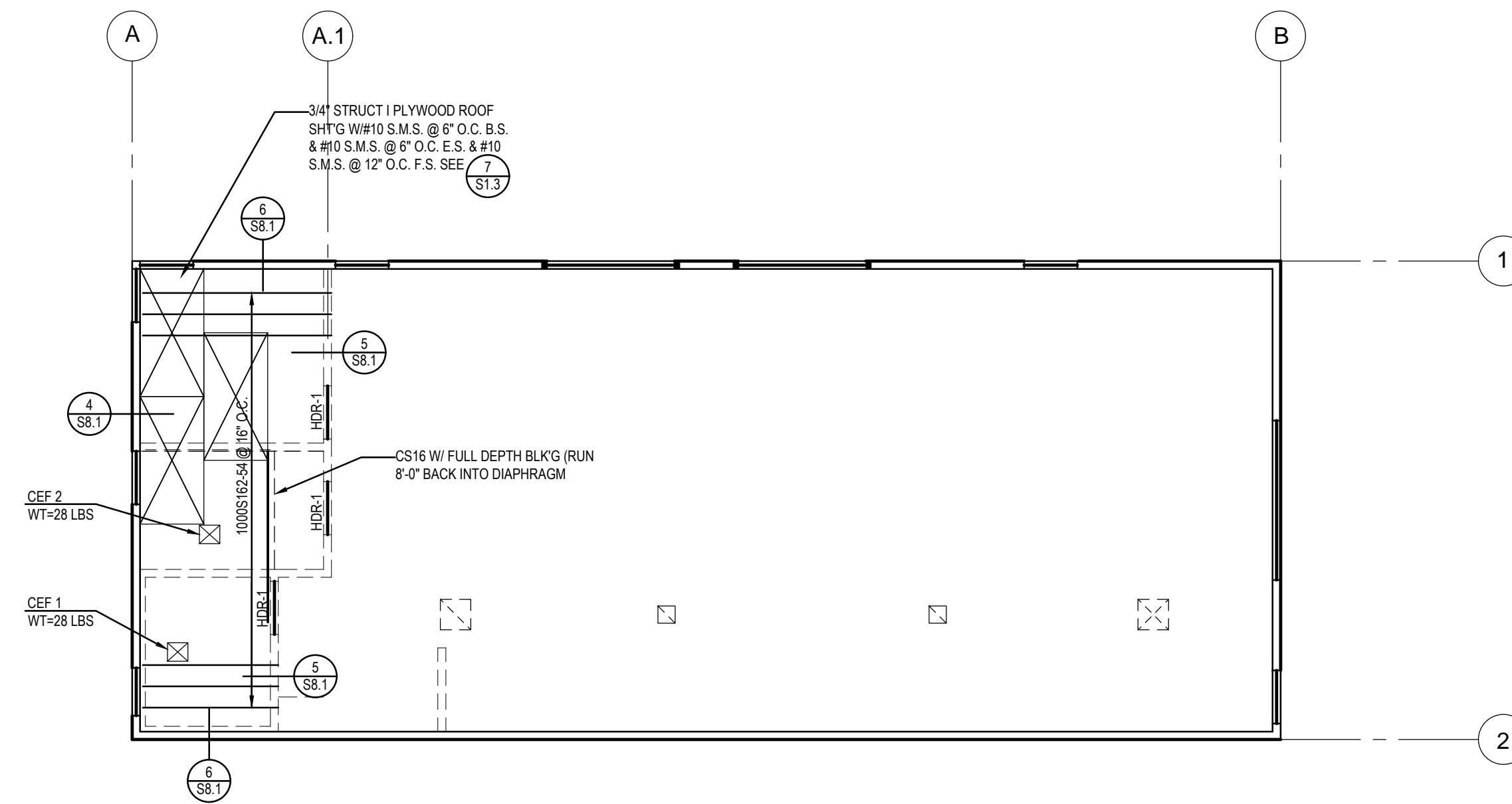


FOUNDATION PLAN

1/8" = 1'-0" 1

CEILING FRAMING NOTES

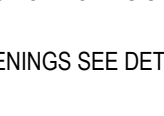
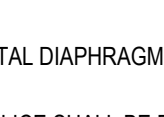
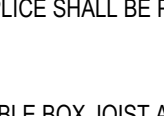
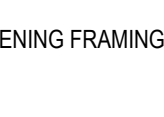
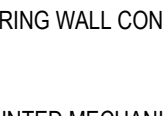
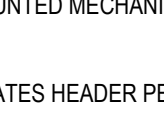

1. SEE ROOF FRAMING NOTES.

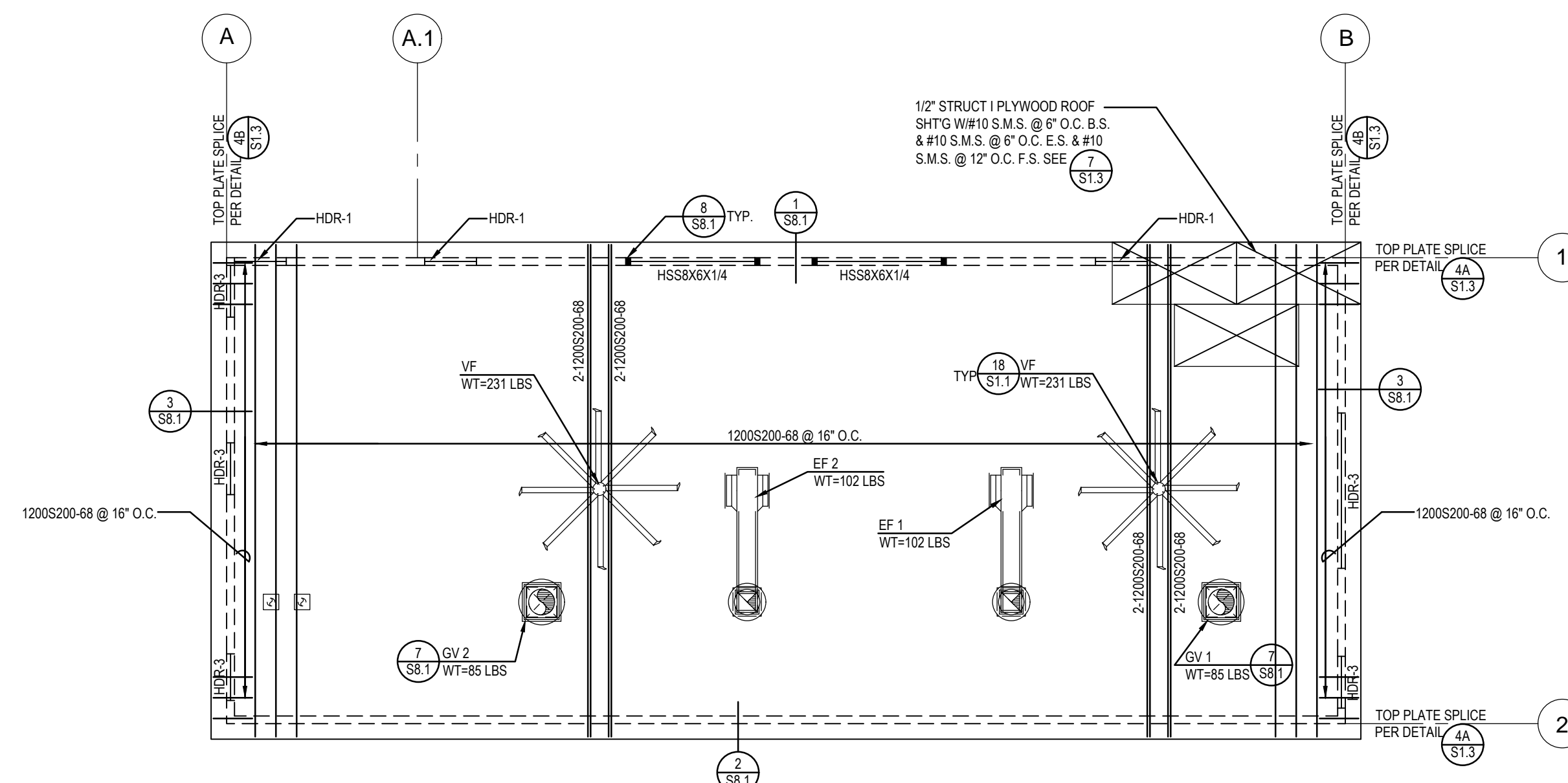


REFLECTED CEILING PLAN

1/8" = 1'-0" 2

ROOF FRAMING NOTES

1. FOR SIZE AND LOCATION OF ROOF OPENINGS AND MECHANICAL ROOF MOUNTED EQUIPMENT, (WHERE APPLICABLE) SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND LATERAL BRACINGS FOR ALL FRAMING ERECTION TO RESIST ALL EXTERNAL LOADS FOR SAFETY.
3. FOR ROOF OPENINGS SEE DETAIL  U.N.O.
4. STRUCTURAL PLYWOOD SHEATHING SHALL CONFORM TO PS I 83 AND SHALL BE IDENTIFIED WITH AN A.P.A. TRADEMARK.
5. EACH SHEET OF PLYWOOD SHALL HAVE A MINIMUM OF EIGHT (8) SQUARE FEET AND SHALL EXTEND TO THREE (3) BEARING MINIMUM WITH FACEGRAIN PERPENDICULAR TO SUPPORTING MEMBERS.
6. PROVIDE BOUNDARY SCREW AT BEAMS, STRUTS, LEDGERS, WALL PLATES, BLOCKING, PERIMETER MEMBERS, AND EDGES OF OPENINGS.
7. FOR HORIZONTAL DIAPHRAGM, SEE DETAIL .
8. TOP PLATE SPLICE SHALL BE PER DETAIL  TYP U.N.O.
9. PROVIDE DOUBLE BOX JOIST AT MECHANICAL EQUIPMENT SUPPORTS AT ROOF.
10. FOR WALL OPENING FRAMING SEE DETAIL  U.N.O. ON PLAN.
11. FOR NON-BEARING WALL CONSTRUCTION SEE DETAIL .
12. ALL ROOF MOUNTED MECHANICAL UNITS SHALL BE FRAMED PER .
13. HDR # - INDICATES HEADER PER SCHEDULE .



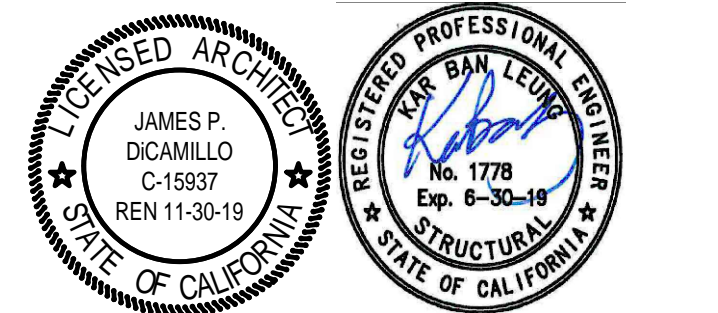
ROOF FRAMING PLAN

1/8" = 1'-0" 3



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 CALIFORNIA 91730-0729
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 ROWLAND HEIGHT, CA



CONSULTANT
K.B. LEUNG & ASSOCIATES
 STRUCTURAL ENGINEERS
 2020 BASELINE ROAD, SUITE D
 ALTA LOMA, CA 91701
 (909) 944-0029 PHONE
 (909) 944-7963 FAX

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 PROJECT NUMBER: 1619700.00

**FOUNDATION
 REFLECTED CEILING &
 ROOF FRAMING PLANS**

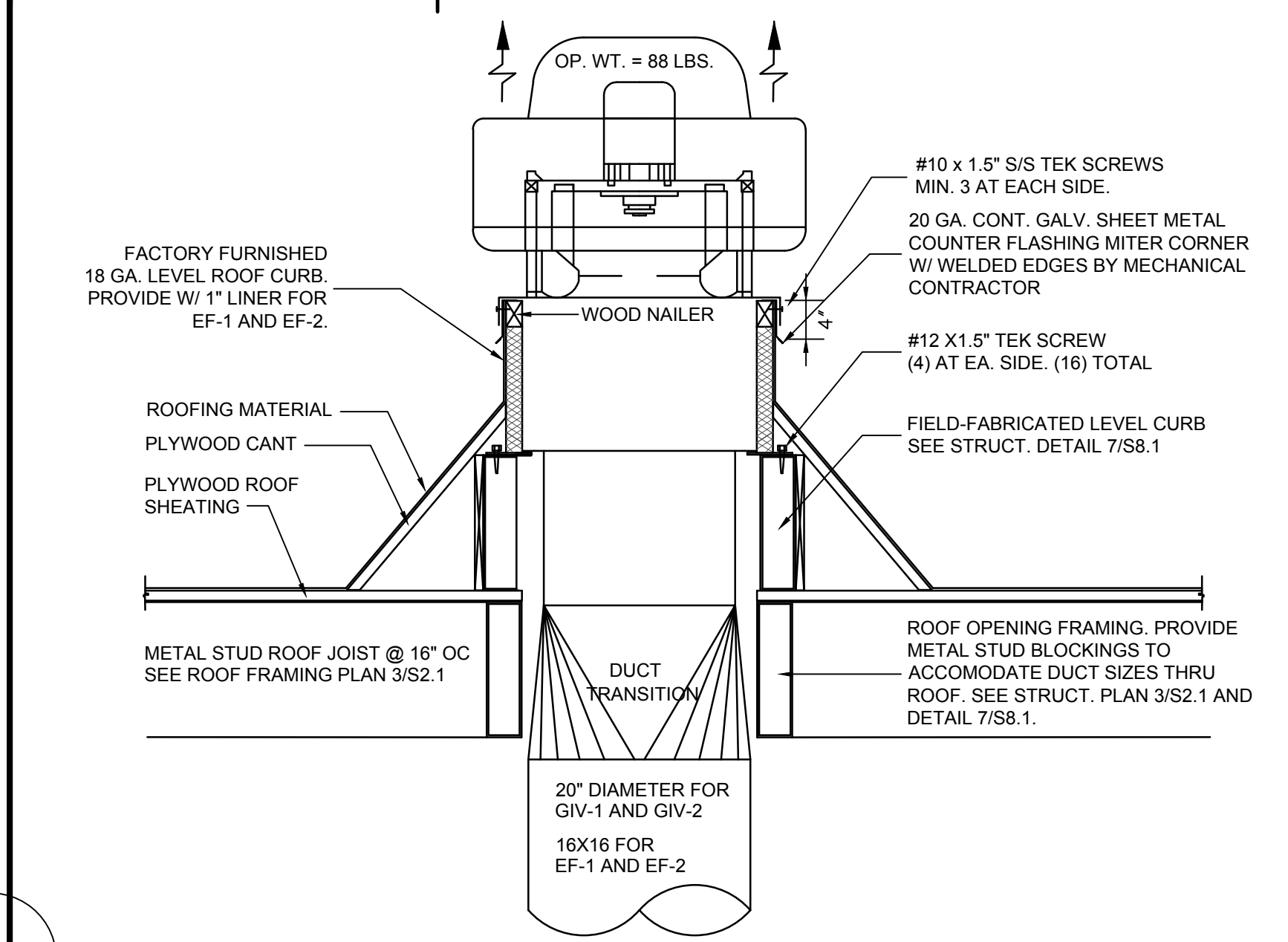
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REVISIONS		

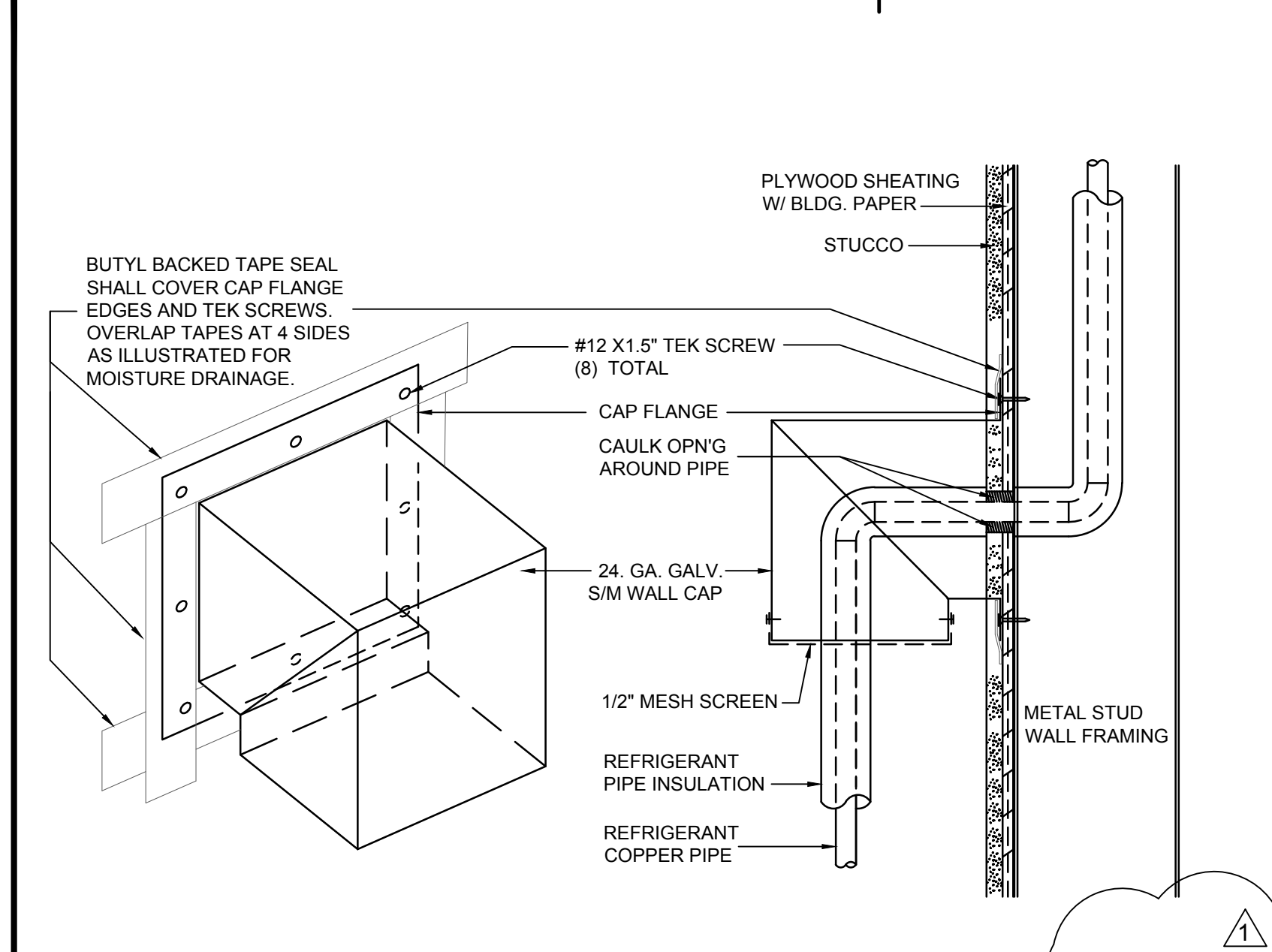
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DATE: 09/27/2018	SCALE:
PROJECT NUMBER: 1619700.00	

**MECHANICAL
DETAILS**

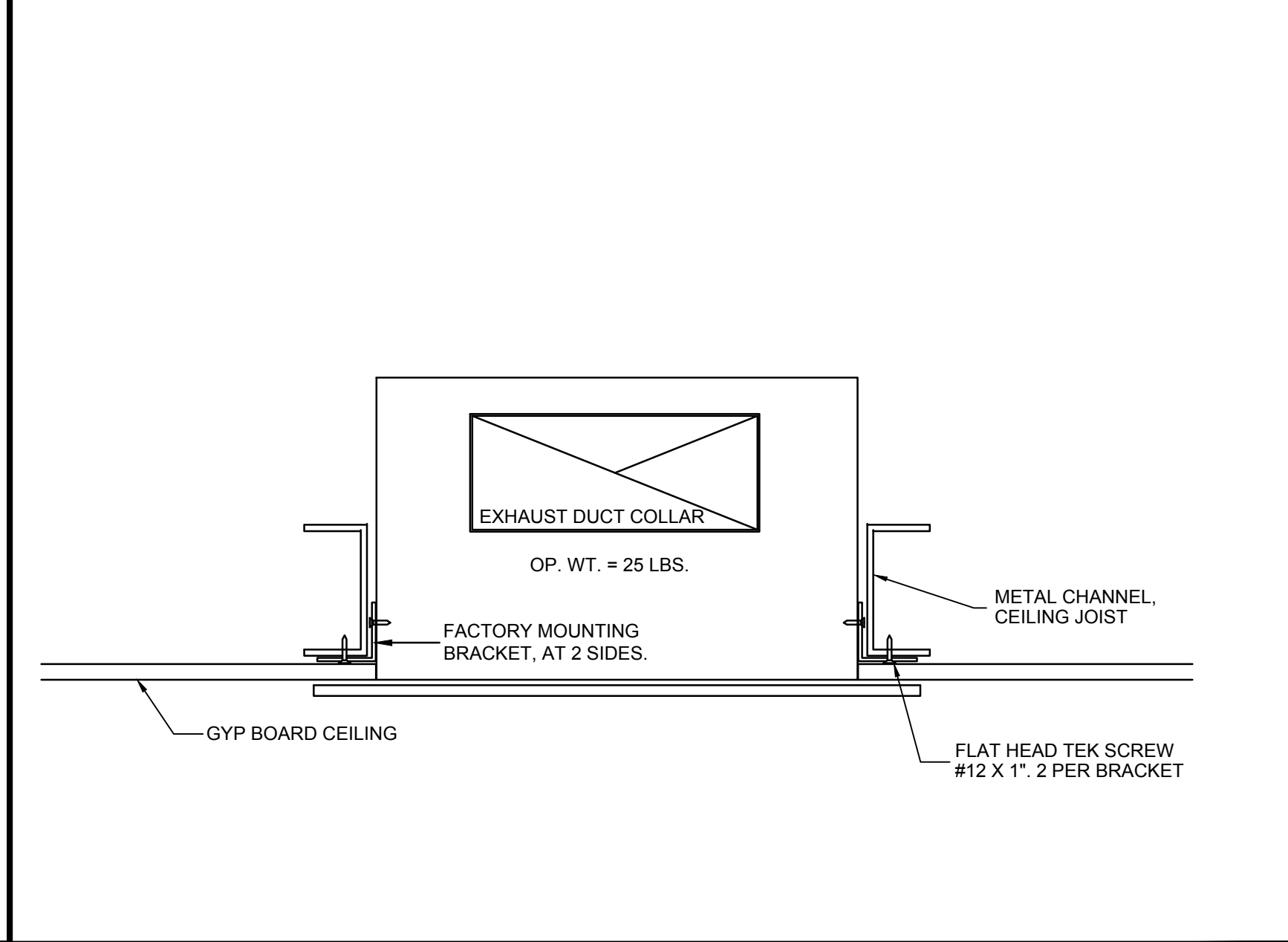
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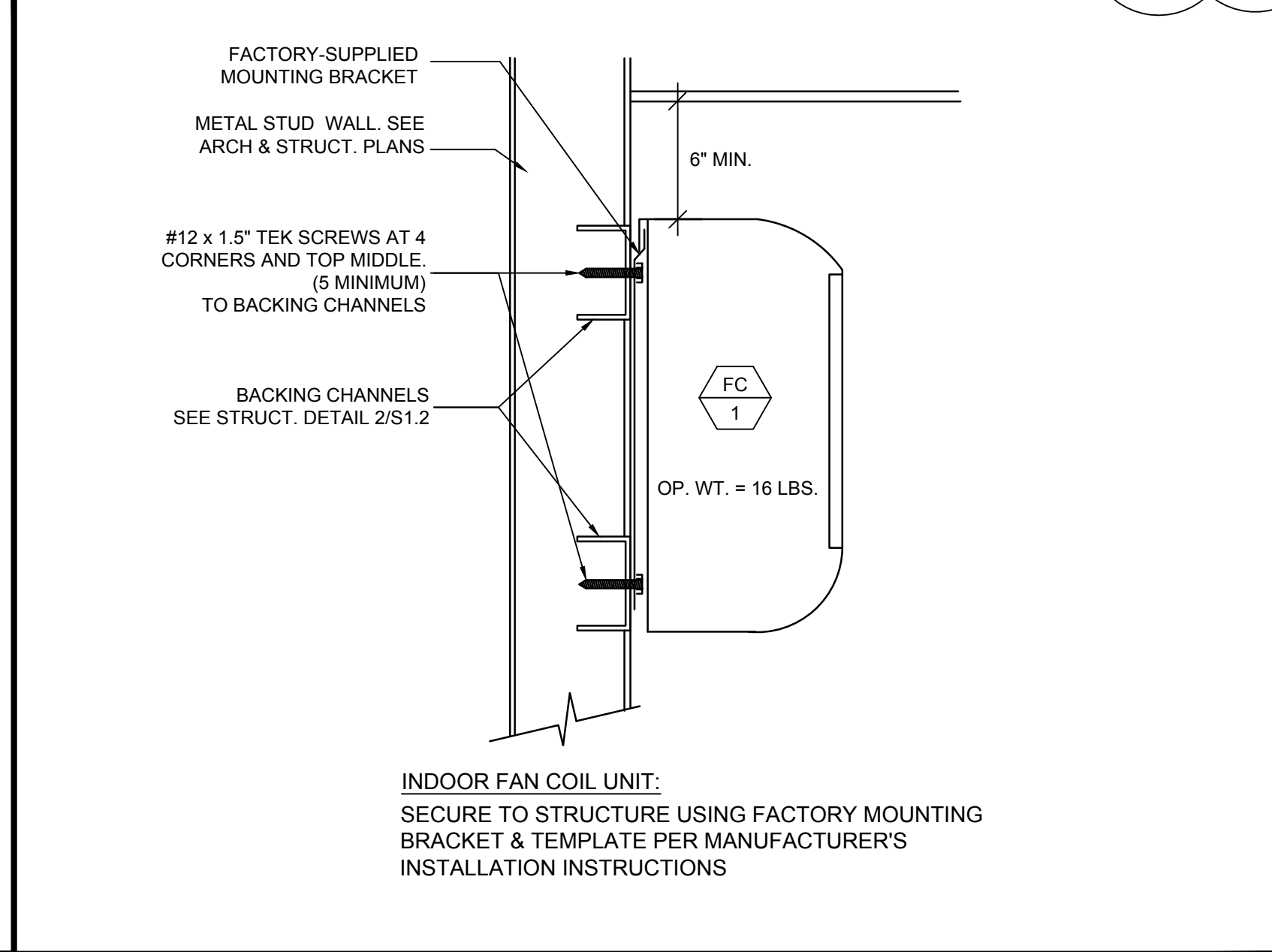
ROOF MOUNTED EF-1 & EF-2 AND GV-1 & GV-2 INSTALLATION NO SCALE 4



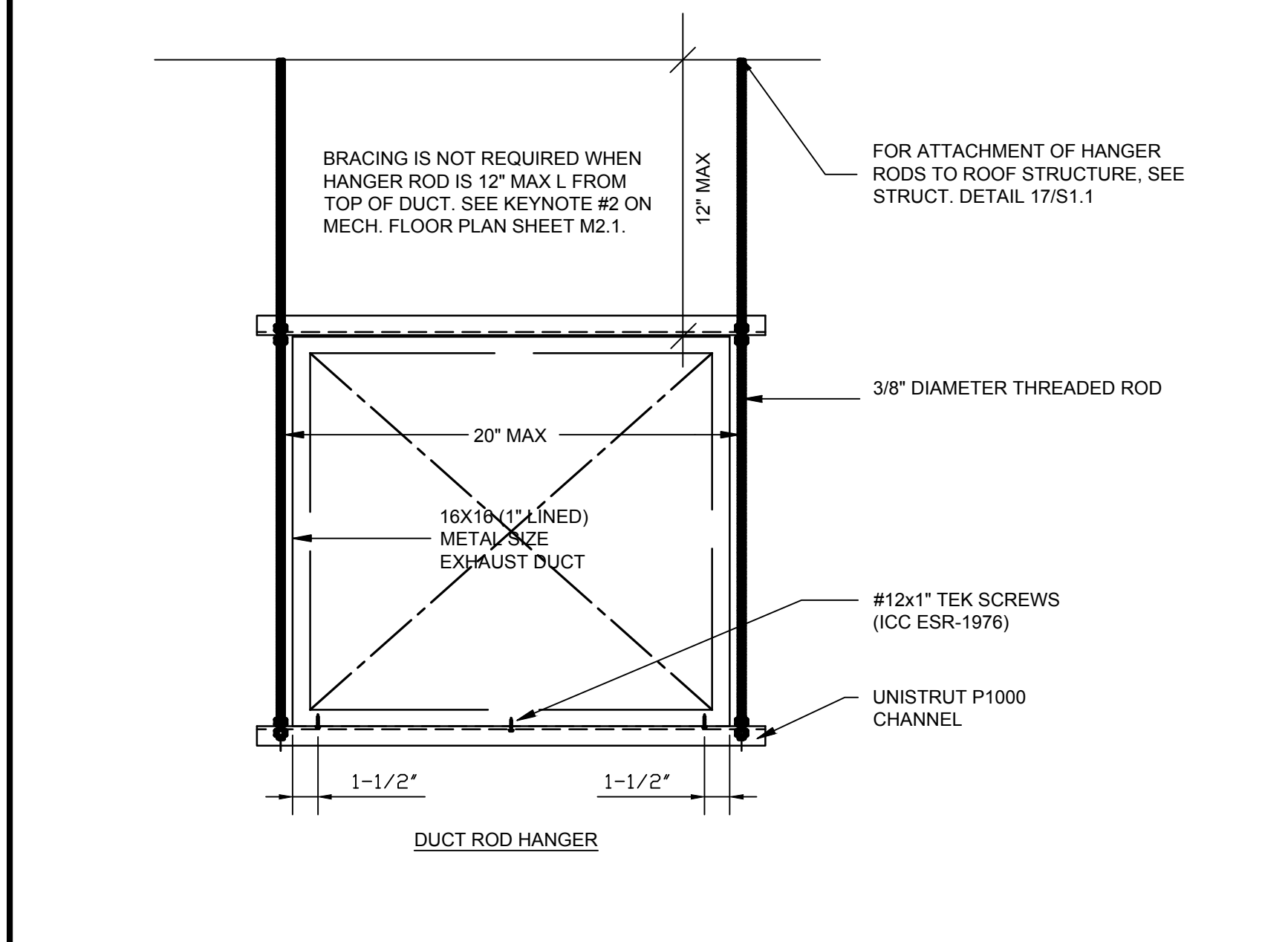
REFRIGERANT PIPING AND CONDUIT WALL CAP NO SCALE 8



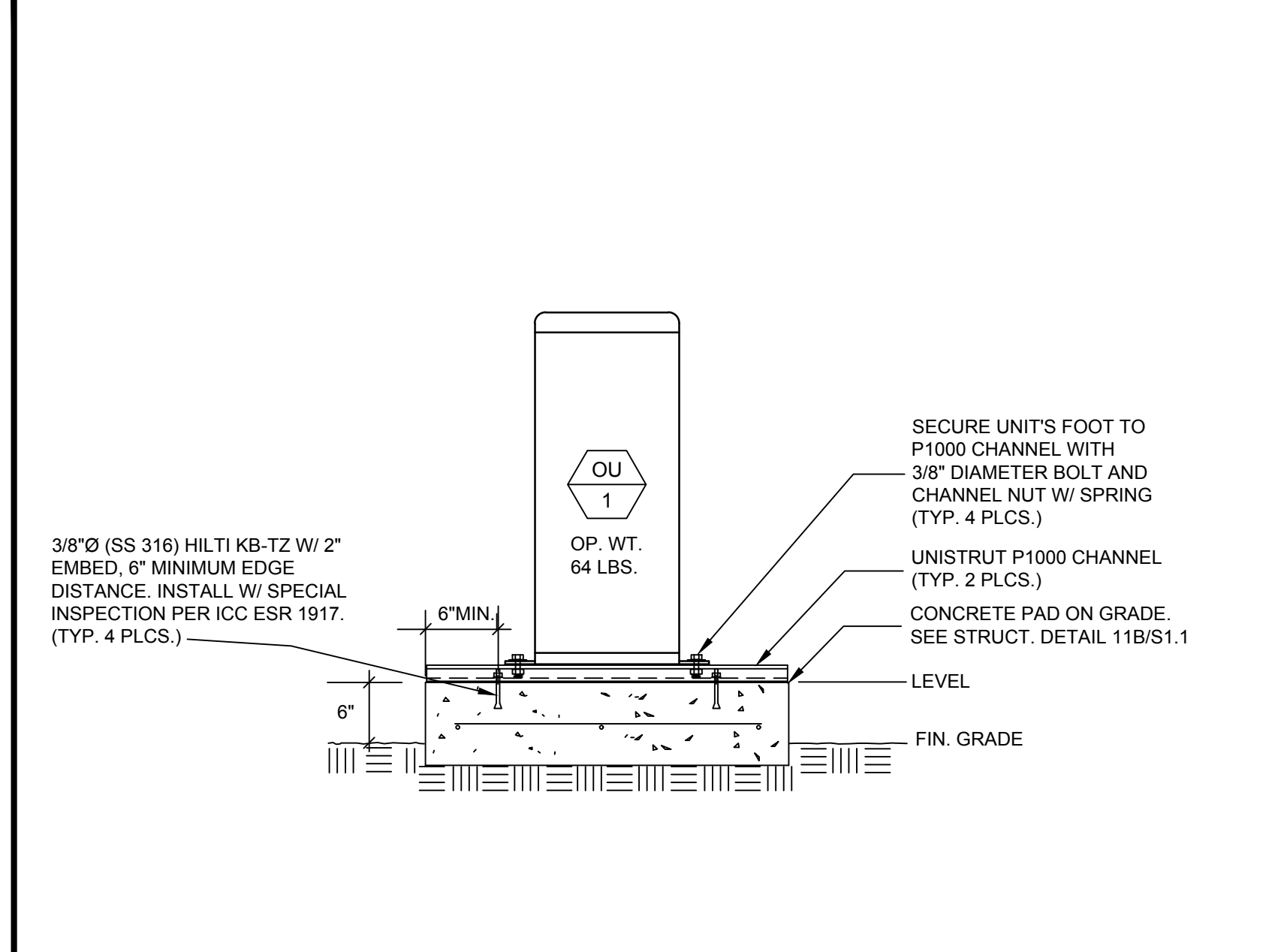
CEILING MOUNTED EXHAUST FAN CEF-1 AND CEF-2 MOUNTING NO SCALE 3



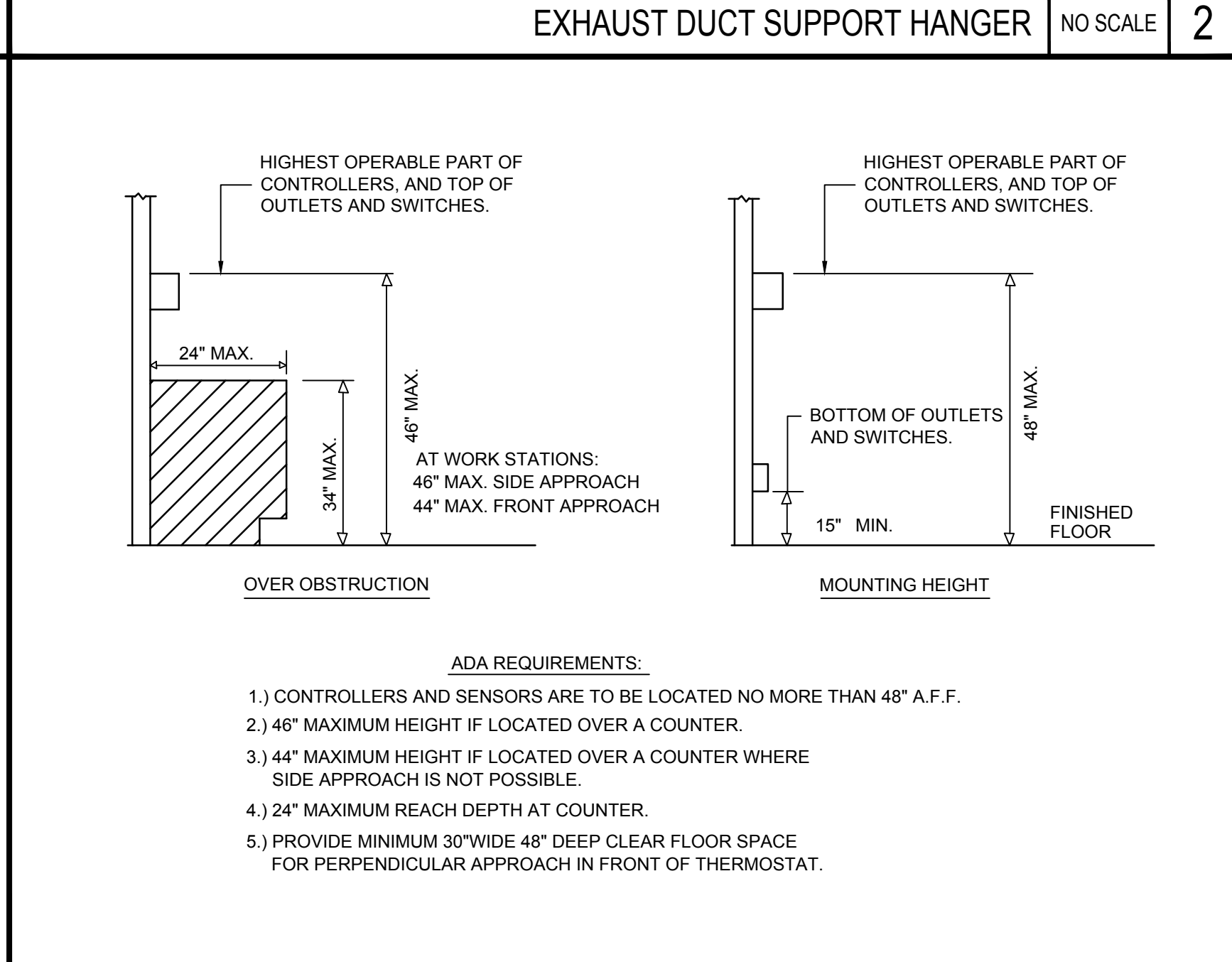
INDOOR HEAT PUMP UNIT FC-1 WALL MOUNT INSTALLATION NO SCALE 7



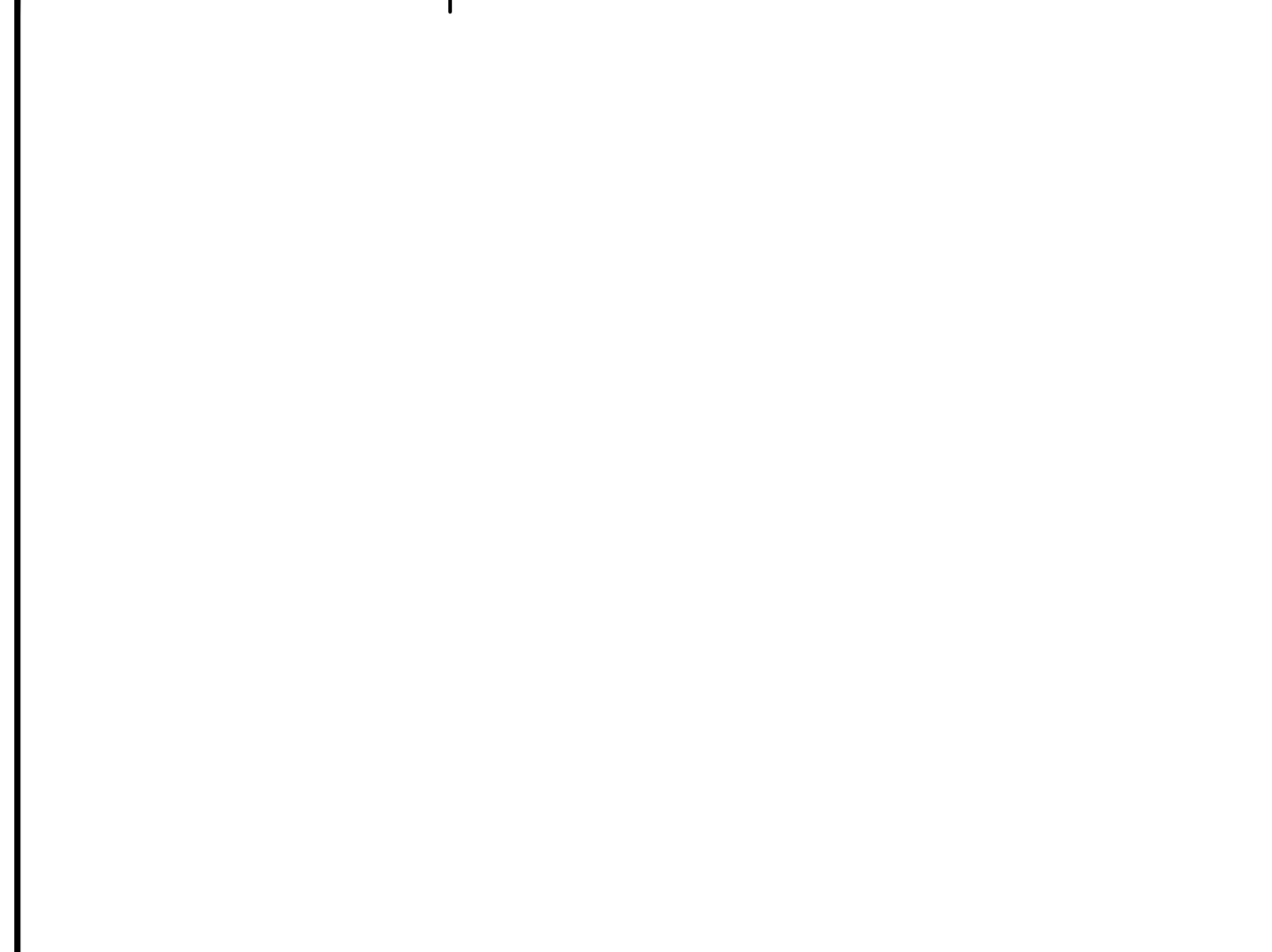
EXHAUST DUCT SUPPORT HANGER NO SCALE 2



OUTDOOR HEAT PUMP UNIT OU-1 PAD INSTALLATION NO SCALE 6



DSA/ADA CONTROLLER AND SWITCH MOUNTING NO SCALE 1



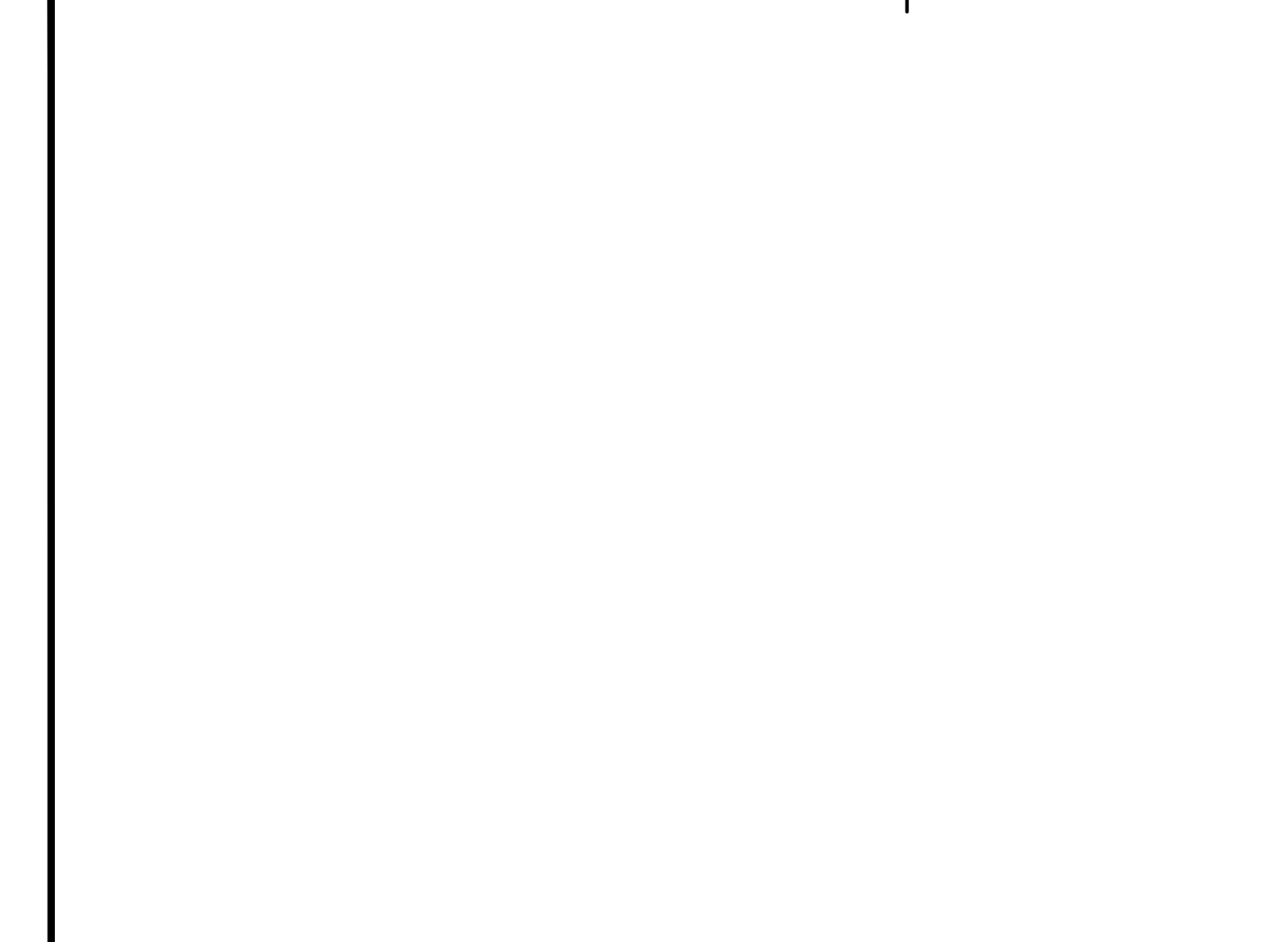
TITLE NO SCALE 11



TITLE NO SCALE 10



TITLE NO SCALE 9



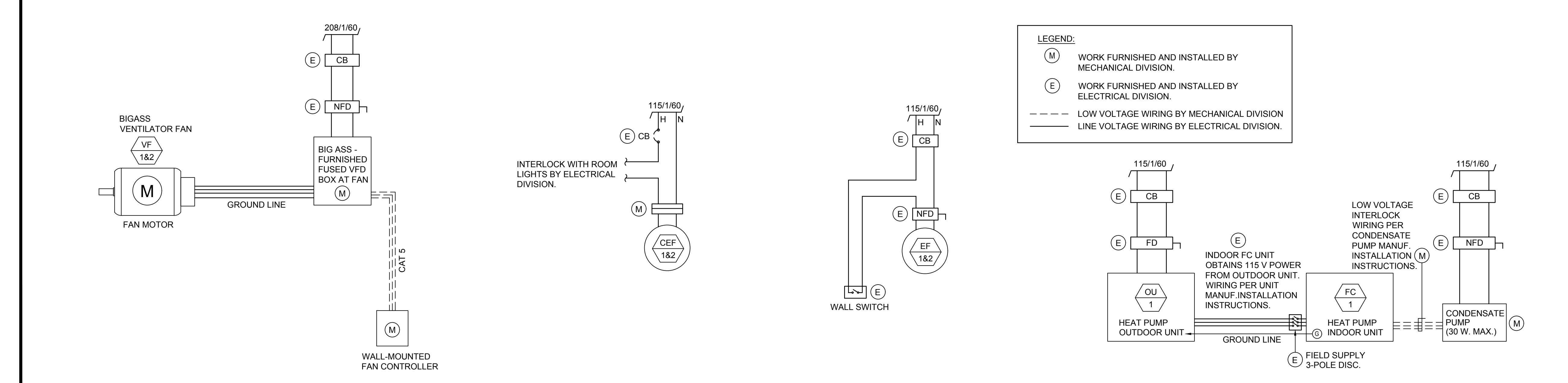
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TITLE NO SCALE 10



TITLE NO SCALE 9



HVAC EQUIPMENT WIRING DIAGRAMS NO SCALE 5

ITEM	FIXTURE	ROUGH-IN CONNECTIONS						DESCRIPTION
		WASTE	VENT	HOT WATER	COLD WATER	GAS		
WC-1	WATER CLOSET (ADA)	4"	2"	--	1"	--	AMERICAN STANDARD NO. 3043.001, "MADERA" FLOWISE 16-1/2" HEIGHT, FLOOR MOUNTED, ADA ACCESSIBLE, VITREOUS CHINA ELONGATED BOWL, 1.28 GPF, WATER SAVER, COMPLETE WITH SLOAN "ROYAL" NO. 111-128, 1.28 FLUSH VALVE, CHURCH NO. 9505SCT SELF-SUSTAINING SEAT AND BOLT CAPS.	
L-1	LAVATORY STUDENT	2"	1-1/2"	--	1/2"	--	AMERICAN STANDARD NO. 0355.012, "LUCERNE" VITREOUS CHINA WALL MOUNTED, COMPLETE WITH CHICAGO NO. 802-VE2805-3/17ABCP, CHICAGO 1013-ABCP ANGLE VALVE STOP WITH LOOSE KEY, CHICAGO 337-CP OFFSET GRID DRAIN AND MCGUIRE NO. MCT12508NC 17 GAUGE P-TRAP WITH PLUMBEREX MODEL X4444 PRO EXTREME ADA COMPLIANT UNDER-LAV COVER.	
S-1	WEARHOUSE SINK (ADA)	2"	1-1/2"	1/2"	1/2"	--	JUST NO. CRA-ADA-2225-A-GR, SINGLE COMPARTMENT, 18 GAUGE-TYPE 304 STAINLESS STEEL, SELF-RIMMING, 16" X 25" X 6-1/2" DEEP, COMPLETE WITH CHICAGO NO. 1100-GNBAE35-317AB FAUCET AND CHICAGO NO. 1013-ABCP ANGLE STOPS WITH WITH LOOSE KEY, JUST NO. J-ADA-35/FS OFFSET GRID DRAIN AND MCGUIRE NO. MCT15009NGJ P-TRAP WITH PLUMBEREX MODEL X4444 PRO EXTREME ADA COMPLIANT UNDER SINK COVER.	
SS-1	SERVICE SINK	3"	2"	3/4"	3/4"	--	KOHLER MODEL K-6710, "WHITBY" ENAMELED CAST IRON SERVICE SINK INCLUDING KOHLER NO. K-8940 ADJUSTABLE TRAP & KOHLER NO. K-9146 3" IPS DRAIN STRAINER, COMPLETE WITH WALL MOUNTED CHICAGO FAUCETS NO. 897-CP FAUCET WITH INTEGRAL STOPS, PAIL HOOK, WALL BRACE, VACUUM BREAKER.	
FD-1	FLOOR DRAIN	2"	1-1/2"	--	1/2"	--	ZURN MODEL ZB-2145N, DURA-COATED CAST IRON BODY AND GRATE, VANDAL PROOF, HEEL PROOF TOP, 1/2" MAX. OPENINGS, FLASHING COLLAR, TRAP PRIMER, CONNECTION AND P-TRAP.	
WHA-1	WATER HAMMER ARRESTER	--	--	--	X"	--	J.R. SMITH MODEL NO. 5000 SERIES "HYDROTROLS" STAINLESS STEEL SHOCK ABSORBERS WATER HAMMER ARRESTER ("X" IS SIZE, SEE DETAIL 1/P3.1), INSTALL PER MANUFACTURER RECOMMENDATION.	
TP-1	TRAP PRIMER (SINGLE)	--	--	--	1/2"	--	P.P.P. NO. PR-500, LEAD FREE BRASS BODY AND CAP COMPLETE WITH NEOPERL CHECK VALVE, NITRILE O-RINGS, AND STAINLESS STEEL SCREEN WITH 1/2" TYPE "L" COPPER PIPE TO RECEPTOR, INSTALL WITH A MINIMUM OF 24" ABOVE FINISH FLOOR, BEHIND ACCESS PANEL.	
HB-1	HOSE BIBB	--	--	--	3/4"	--	ACORN MODEL 8121-LF WITH INTEGRAL VACUUM BREAKER	

- NOTES:
- CLEANOUT INSTALLED ON VENT OVER FIXTURE.
 - REFER TO PLANS FOR FIXTURES REQUIRING CONDENSATE DRAIN TAILPIECE CONNECTION.
 - CLEANOUT INSTALLED ON WASTE PIPE BELOW P-TRAP.
 - SEE ARCHITECTURAL DRAWING FOR FIXTURE MOUNTED HEIGHT AND DIMENSIONS.

SYMBOL	LOCATION	MANUFACTURER AND MODEL NUMBER	ELECTRIC				TANK SIZE (GALLONS)	OPERATED WEIGHT (LBS)	REMARKS	DETAIL
			VOLT	Ø	HZ	KW				
EW-1	WAREHOUSE	BRADFORD WHITE LE250S3-3	208	3	60	5.0	50	600#	5.0 KW LOWER ELEMENT AND UPPER ELEMENT, NON SIMULTANEOUS, 38 GPH @ 60" RISE.	2 P3.1

SYMBOL	AREA SERVED	LOCATION	MANUFACTURER AND MODEL NO.	MAXIMUM OPERATING PRESSURE (PSI)	MAXIMUM ACCEPTANCE VOLUME (GAL.)	TANK DIAMETER (INCHES)	TANK HEIGHT (INCHES)	OPERATING WEIGHT (LBS.)	REMARKS
ET-1	(WATER HEATER)	WAREHOUSE	AMTROL THERM-X-TROL ST-12C	150	6.4	12	18	50	

SERVICES	LOCATION	MATERIAL	JOINING METHOD	REMARKS
DOMESTIC COLD & HOT WATER	UNDERGROUND	RIGID COPPER (TYPE K)	LEAD FREE BRAZED OR PROGRESS	ALL PIPE PENETRATION SHALL BE PROVIDED WITH PIPE SLEEVES IN COMPLIANCE WITH CPC 2016 313.0 AND 313.10.
	ABOVE GROUND	RIGID COPPER (TYPE L)	LEAD FREE SOLDERED OR PROGRESS	ALL PIPE PENETRATION SHALL BE PROVIDED WITH PIPE SLEEVES IN COMPLIANCE WITH CPC 2016 313.0 AND 313.10. HOT WATER IS INSULATED WITH 1-1/2" FIBERGLASS.
SANITARY WASTE/SEWER	UNDERGROUND	CAST IRON SOIL PIPE & FITTINGS	HUBBLESS WITH S.S. COUPLING	ALL PIPE PENETRATION SHALL BE PROVIDED WITH PIPE SLEEVES IN COMPLIANCE WITH CPC 2016 313.0 AND 313.10.
	ABOVE GROUND	CAST IRON SOIL PIPE & FITTINGS	HUBBLESS WITH S.S. COUPLING	ALL PIPE PENETRATION SHALL BE PROVIDED WITH PIPE SLEEVES IN COMPLIANCE WITH CPC 2016 313.0 AND 313.10.
SANITARY VENT	UNDERGROUND	CAST IRON SOIL PIPE & FITTINGS	HUBBLESS WITH S.S. COUPLING	ALL PIPE PENETRATION SHALL BE PROVIDED WITH PIPE SLEEVES IN COMPLIANCE WITH CPC 2016 313.0 AND 313.10.
	ABOVE GROUND (EXTERIOR)	CAST IRON SOIL PIPE & FITTINGS	HUBBLESS WITH S.S. COUPLING	ALL PIPE PENETRATION SHALL BE PROVIDED WITH PIPE SLEEVES IN COMPLIANCE WITH CPC 2016 313.0 AND 313.10.
	ABOVE GROUND (INDOOR)	CAST IRON SOIL PIPE & FITTINGS	HUBBLESS WITH S.S. COUPLING	ALL PIPE PENETRATION SHALL BE PROVIDED WITH PIPE SLEEVES IN COMPLIANCE WITH CPC 2016 313.0 AND 313.10.

NOTE: ALL BRAZED AND SOLDERED JOINTS SHALL BE LEAD FREE. EXPOSED VENT PIPE SHALL BE GALVANIZED PER PLUMBING SPECIFICATIONS

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
 CERTIFICATE OF COMPLIANCE
 Water Heating System General Information
 Project Name: Rowland HS Custodial Building Date Prepared: September 18, 2018

A. GENERAL INFORMATION/SYSTEM INFORMATION

01 Water Heater System Name:	<u>EW-1</u>
02 Water Heater System Configuration:	<u>Central</u>
03 Water Heater System Type:	<u>Domestic Hot water</u>
04 Building Type:	<u>Facilities Building</u>
05 Total Number of Water Heaters in Systems:	<u>1</u>
06 Central DHW Distribution Type:	<u>Local with tempering valves</u>
07 Dwelling Unit DHW Distribution Type:	<u>NA</u>

B. WATER HEATER INFORMATION
 Each water heater type requires a separate compliance document.

01 Water Heater Type:	<u>Storage</u>
02 Fuel Type:	<u>Electric</u>
03 Manufacture Name:	<u>Bradford White</u>
04 Model Number:	<u>LE250S3-3</u>
05 Number of Identical Water Heaters:	<u>1</u>
06 Installed Water Heater System Efficiency:	<u>98%</u>
07 Required Minimum Efficiency:	<u>98%</u>
08 Standby Loss Percent or Standby Loss Total:	
09 Rated Input:	<u>6KW</u>
10 Pilot Energy:	<u>N/A</u>
11 Water Heater Tank Storage Volume:	<u>50</u>
12 Exterior Insulation on Water Heater:	<u>N/A</u>
13 Volume of Supplemental Storage:	<u>N/A</u>
14 Internal Insulation on Supplemental Storage:	<u>N/A</u>
15 Exterior Insulation on Supplemental Storage:	<u>N/A</u>

C. PLUMBING COMPLIANCE FORMS & WORKSHEETS
 Check box if worksheet is included.

YES	NO	Doc/Worksheet #	Title
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-PLB-01-E	Certificate of Compliance, Declaration, Required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-PLB-01-E	Certificate of Installation, Required on plans for all submittals.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PLB-02-E	Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PLB-03-E	Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PLB-21-H	Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PLB-22-H	Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-STH-01-E	Certificate of Installation, required on any solar water heating

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
 CERTIFICATE OF COMPLIANCE
 Water Heating System General Information
 Project Name: Rowland HS Custodial Building Date Prepared: September 18, 2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Alfredo Adame Signature Date: September 18, 2018

Company: IDS Mechanical Group Address: 1 Peters Canyon Road City/State/Zip: Irvine Ca 92606 Phone: 949 387 8500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Alfredo Adame Signature Date: September 18, 2018

Company: IDS Mechanical Group Address: 1 Peters Canyon Road City/State/Zip: Irvine Ca 92606 Phone: 949 387 8500

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

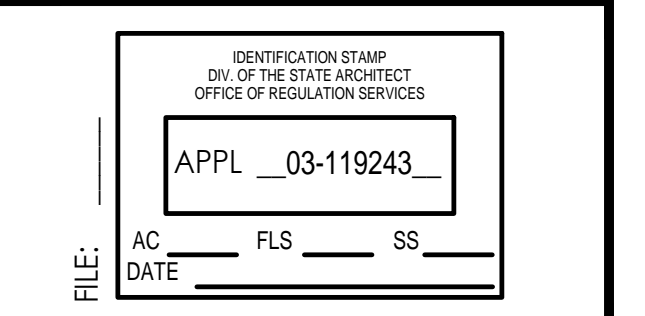


SOUTHERN CALIFORNIA
 8163 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA
 CALIFORNIA 91730-0729
 TEL: 909-987-0909
 www.wlcarhitects.com

**ROWLAND HIGH SCHOOL
 NEW CUSTODIAL BUILDING
 ROWLAND UNIFIED SCHOOL DISTRICT**
 2000 OTTERBEIN AVE
 ROWLAND HEIGHTS, CA



CONSULTANT
IDS
 IDS GROUP
 1 PETERS CANYON ROAD, SUITE 130
 IRVINE, CA 92606
 TEL: 949-387-8500, FAX: 949-387-0800
 Project # 18M003.00

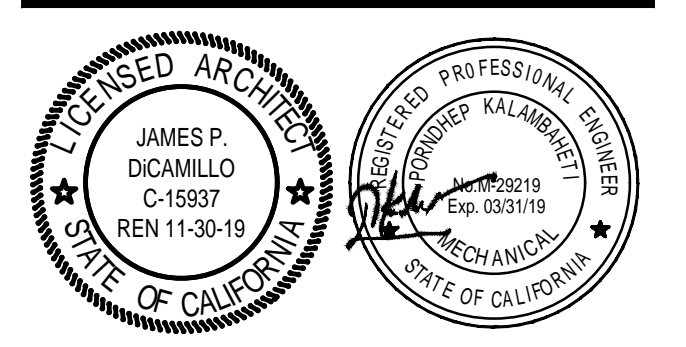


NO	DATE	BY	DESCRIPTION
REVISIONS			
3/8/19	AA		ADDENDUM 1

DRAWN: _____ CHECKED: _____
 DATE: 09/27/2018 SCALE: _____
 PROJECT NUMBER: 1619700.00

PLUMBING SCHEDULES

DRAWING NUMBER: **P0.2**



CONSULTANT
IDS
IDS GROUP
1 PETERS CANYON ROAD, SUITE 130
IRVINE, CA 92606
TEL: 949-987-8500, FAX: 949-987-0800
Project # 18M003.00

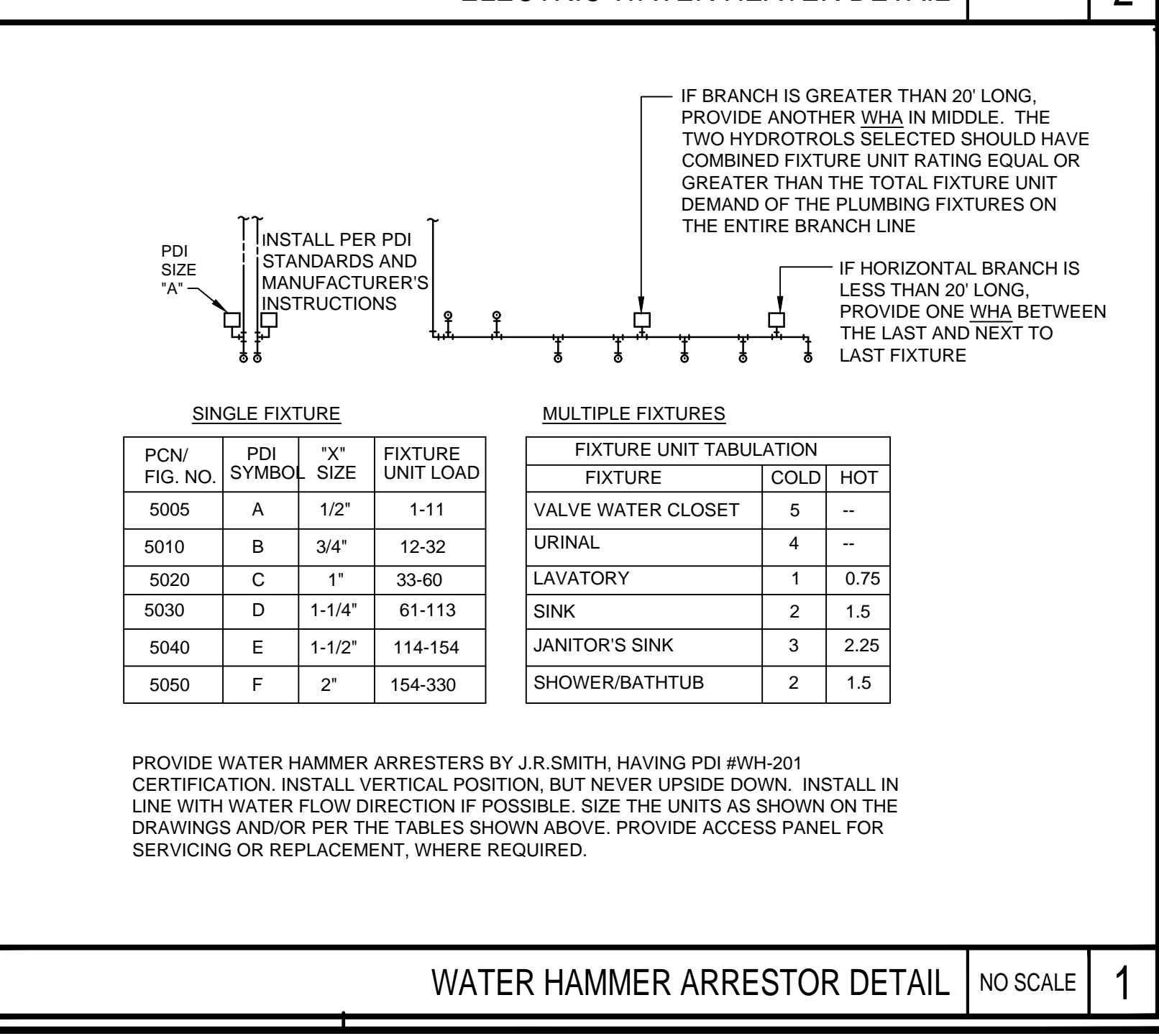
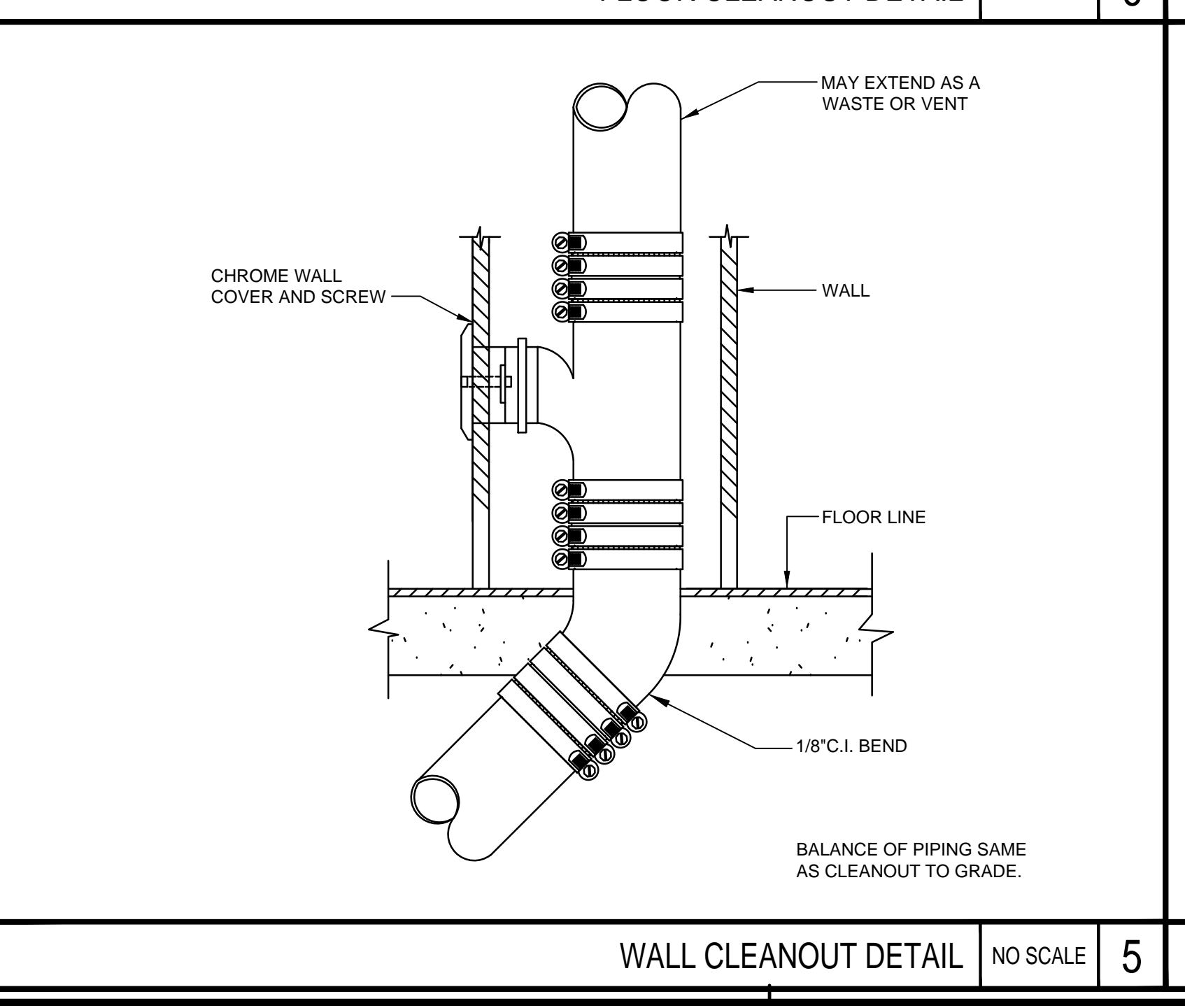
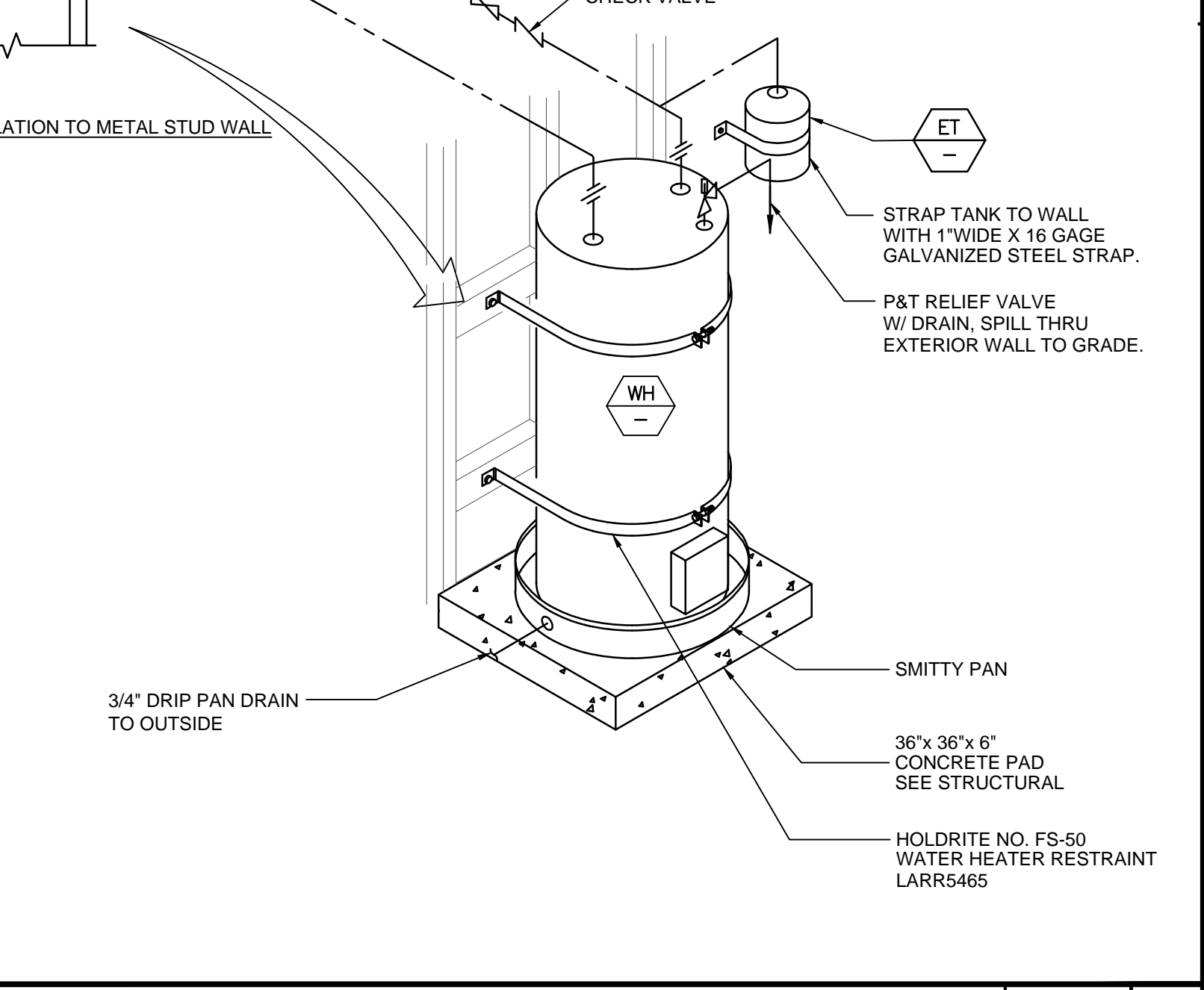
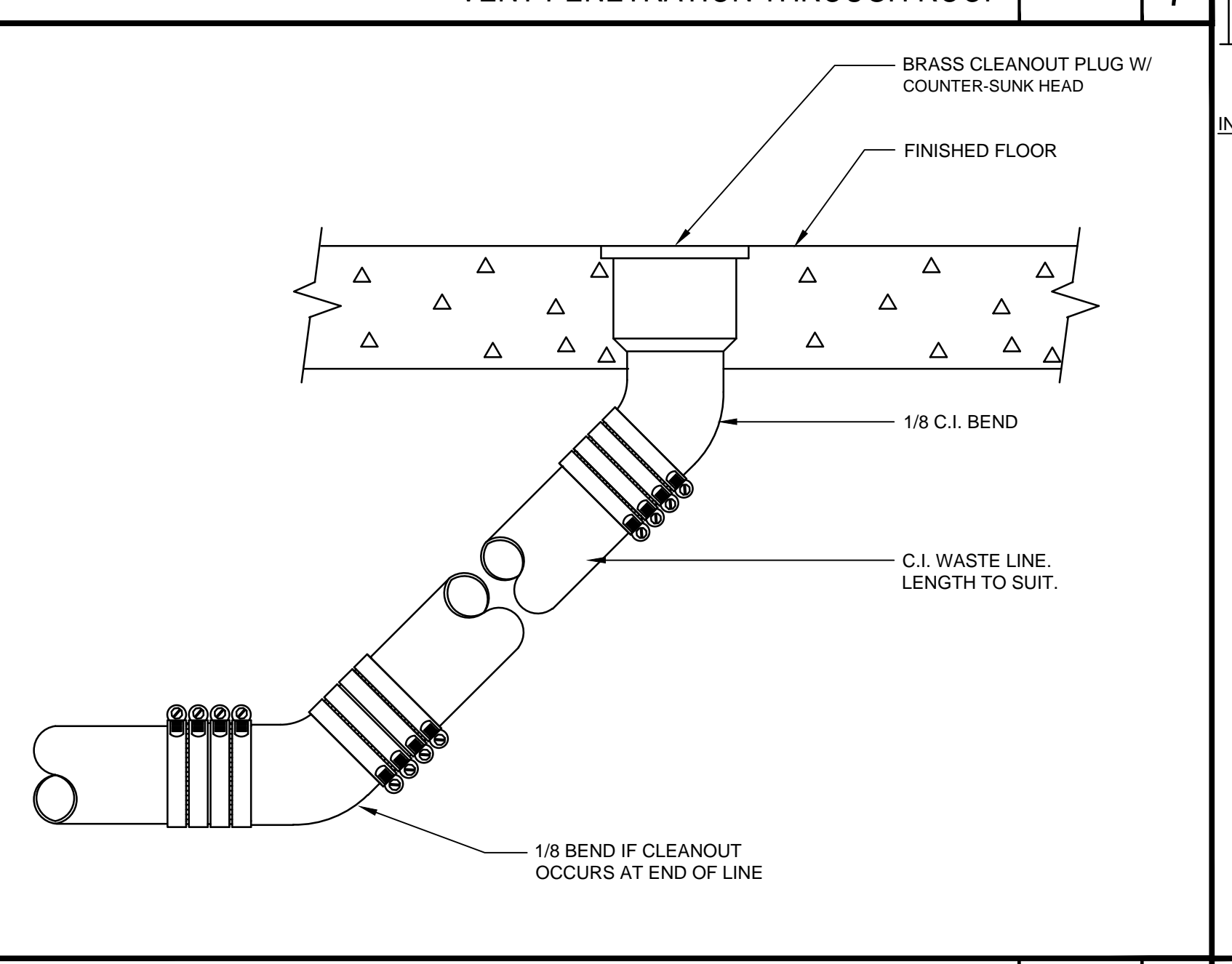
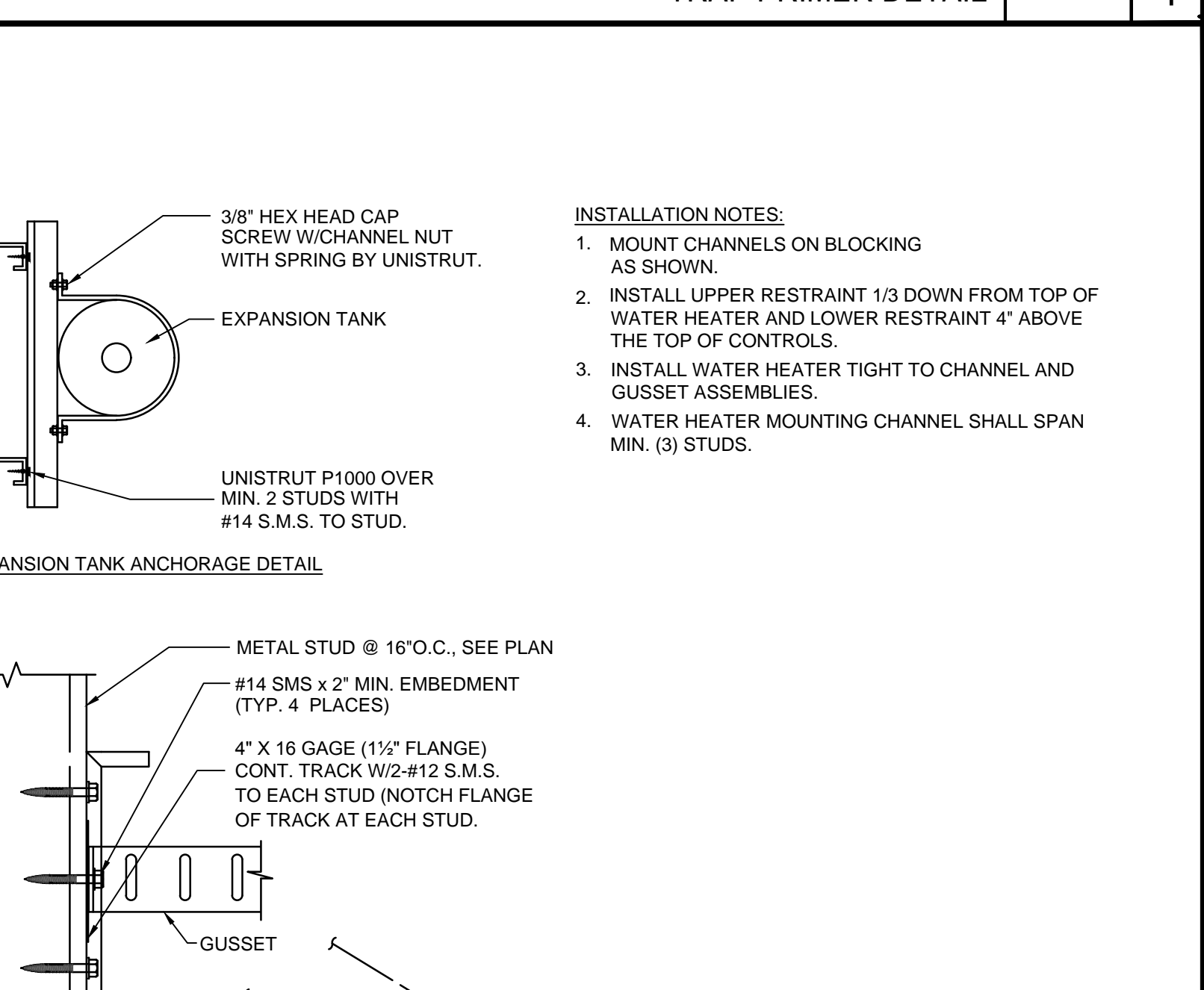
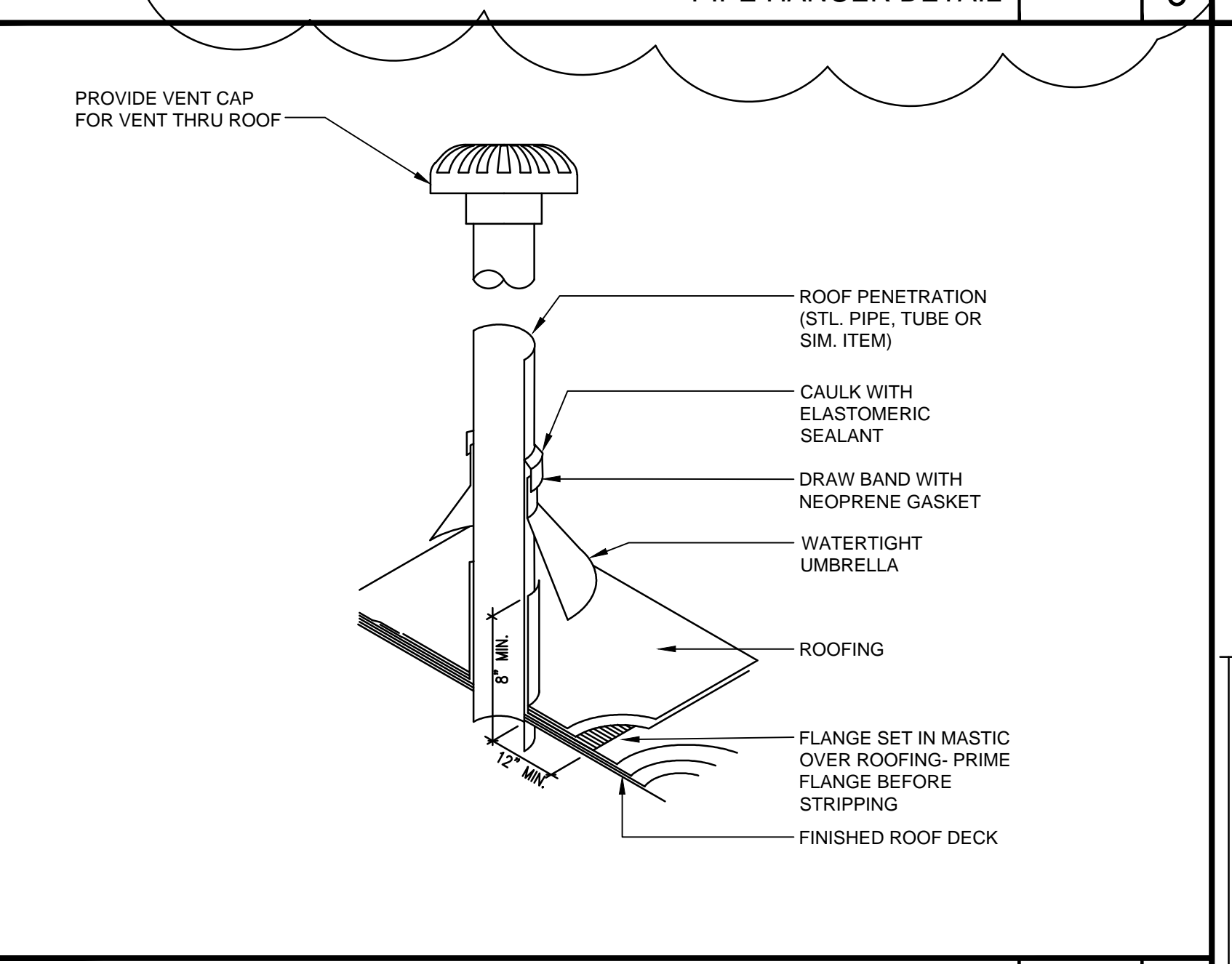
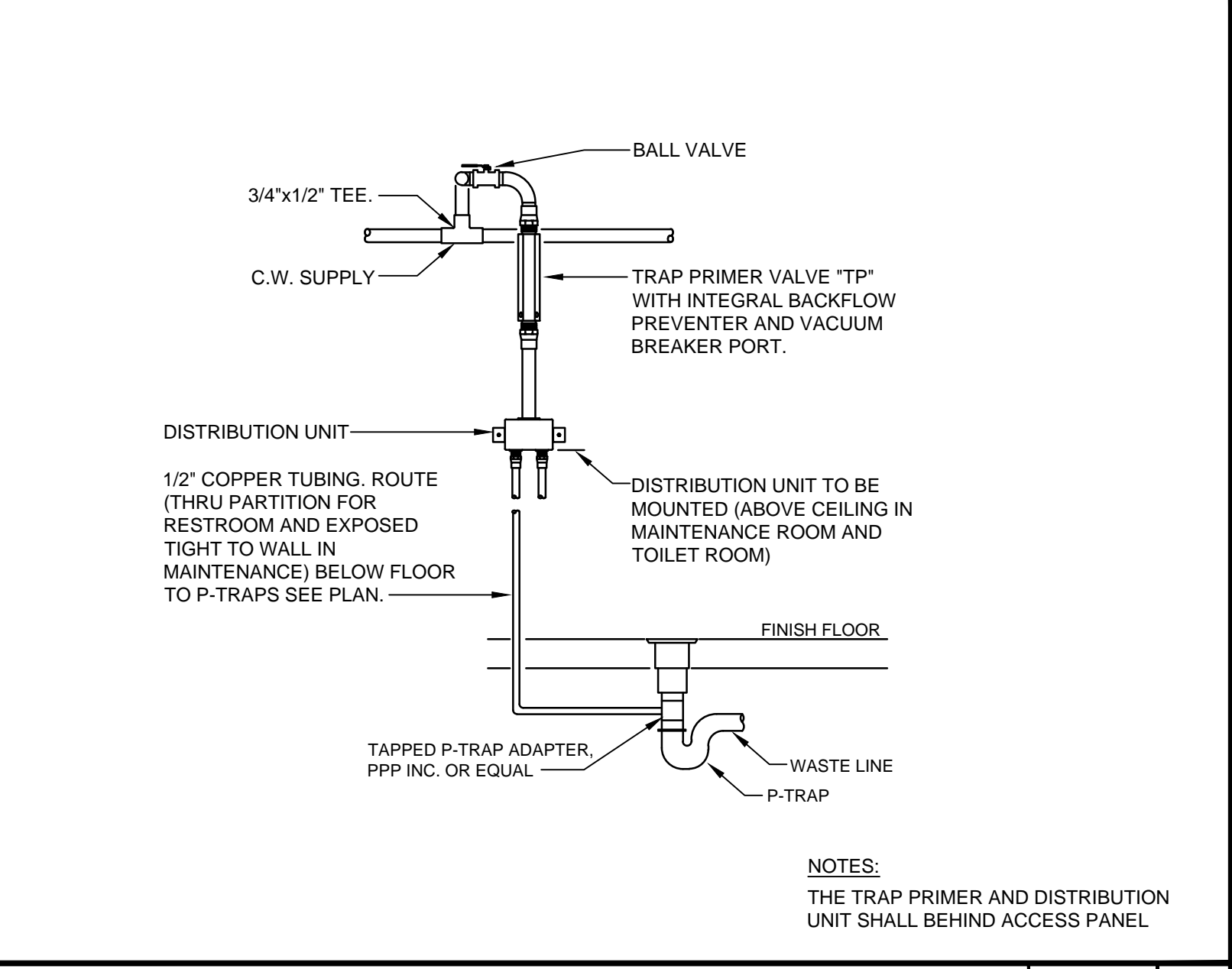
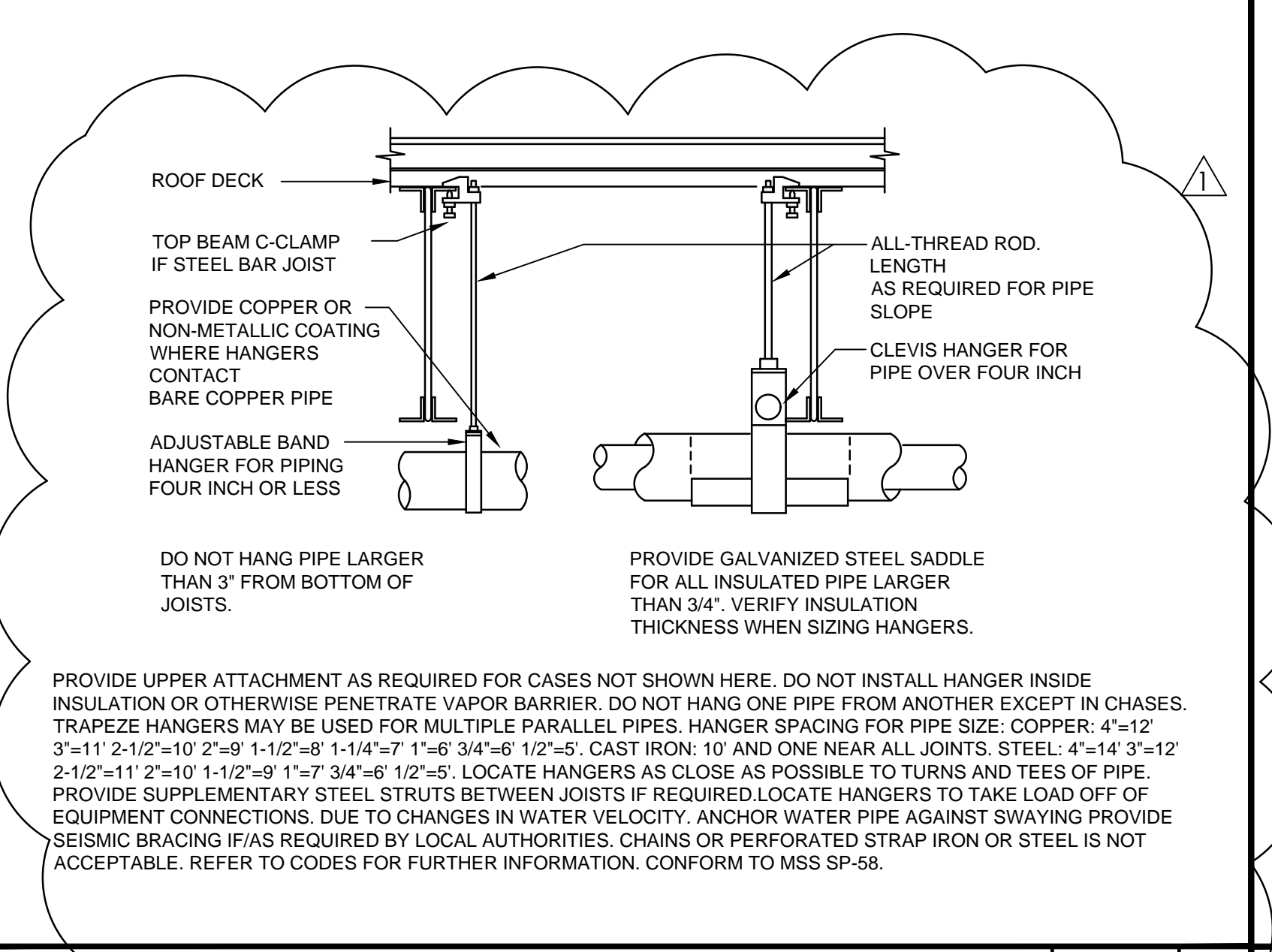
IDENTIFICATION STAMP
OFFICE OF REGULATION SERVICES
APPL 03-119243
AC _____ FL _____ SS _____
DATE _____

3/8/19 AA ADDENDUM 1

NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: _____ CHECKED: _____
DATE: 09/27/2018 SCALE: _____
PROJECT NUMBER: 1619700.00

**PLUMBING
DETAILS**



- NO SCALE 16

- NO SCALE 15

- NO SCALE 15

- NO SCALE 11

- NO SCALE 14

- NO SCALE 10

- NO SCALE 13

- NO SCALE 9

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---	CONDUIT RUN, CONCEALED IN CEILING, WALLS OR BELOW ROOF. CONDUIT MAY BE CONCEALED BELOW SLAB AS PERMITTED BY ENGINEER.	IDF	INTERMEDIATE DISTRIBUTION FRAME DESIGNATION (DATA NETWORK). PROVIDE 8" HIGH x 3/4" BACKBOARD, RACK AND SYSTEM COMPONENTS PER SPECS.
----	CONDUIT RUN, EXPOSED.	MDF	MAIN DISTRIBUTION FRAME DESIGNATION (DATA NETWORK). PROVIDE 8" HIGH x 3/4" BACKBOARD, RACK AND SYSTEM COMPONENTS PER SPECS.
-----	CONDUIT RUN CONCEALED UNDERGROUND, BELOW GRADE OR SLAB.	FACP	FIRE ALARM CONTROL PANEL DESIGNATION.
---	CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.	FAA	FIRE ALARM ANNUNCIATOR PANEL DESIGNATION.
~	FLEXIBLE CONDUIT. SEAL/TITE WHERE EXPOSED TO WEATHER. REFER TO SPECIFICATIONS FOR USE.	FATC	FIRE ALARM TERMINAL CABINET & REMOTE POWER SUPPLY DESIGNATION.
#10	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN. GROUND WIRE IS REQUIRED BUT NOT INDICATED. TWO #12 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12.	SCP	INTRUSION ALARM SYSTEM CONTROL PANEL DESIGNATION.
B-1,3,5-7	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER. CIRCUITS 1,3,5 WITH SHARED NEUTRAL AND CIRCUIT 7 WITH DEDICATED NEUTRAL.	CTB	COMMUNICATION TERMINAL BACKBOARD DESIGNATION
C.O.	CONDUIT ONLY, WITH PULL ROPE.	TTB	TELEPHONE TERMINAL BACKBOARD DESIGNATION.
○	LED LIGHT FIXTURE OUTLET.	MCTB	MAIN COMMUNICATION TERMINAL BACKBOARD DESIGNATION
●	SHADED SYMBOL INDICATES EMERGENCY LIGHTING FIXTURE.	MTTB	MAIN TELEPHONE TERMINAL BACKBOARD DESIGNATION.
□	WALL-MOUNTED LIGHT FIXTURE OUTLET.	EMS	ENERGY MANAGEMENT SYSTEM PANEL DESIGNATION
■	SHADED SYMBOL INDICATES EMERGENCY LIGHTING FIXTURE.		
→	EXIT LIGHT FIXTURE. ARROW INDICATES DIRECTION. "LL" INDICATES LOW LEVEL MOUNTED AT +10" ABOVE FLOOR.		
○	EXIT LIGHT FIXTURE WITH SINGLE OR TWO FACES.		
△	LIGHTING FIXTURE IDENTIFICATION SYMBOL. LETTER INDICATES TYPE OF FIXTURE. NUMERALS IN LOWER HALVE OF HEXAGON INDICATE FIXTURE WATTAGE (INCLUDING BALLAST WHERE APPLICABLE). NUMERAL AT TOP OF HEXAGON INDICATES NUMBER OF FIXTURES REQUIRED. NUMBER AT BOTTOM OF HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF FIXTURE. OMISSION OF MOUNTING HEIGHT INDICATES CEILING MOUNTING.		
Sabcd	WALL MOUNTED LOW VOLTAGE SWITCH. REFER TO PLANS AND SPECIFICATIONS. (+48" AFF TO TOP OF BOX OR +45" AFF TO CENTER BOX)		
S	LINE VOLTAGE PASSIVE INFRARED, WALL MOUNTED, OCCUPANCY SENSOR FOR LIGHTING CONTROL BY WATT STOPPER #PW-101 OR APPROVED EQUAL.		
CS	LOW VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNTED FOR LIGHTING CONTROL. REFER TO PLANS AND SPECIFICATIONS.		
RC	ABOVE CEILING ROOM CONTROLLER. REFER TO PLANS AND SPECIFICATIONS.		
PC	PHOTO CELL. REFER TO PLANS AND SPECIFICATIONS.		
Sm	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD.		
⊕	DUPLEX GROUNDING TYPE RECEPTACLE WALL MOUNTED (+18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED).		
⊕	DOUBLE DUPLEX GROUNDING TYPE RECEPTACLE, WALL MOUNTED (+18" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED).		
⊕	SLASH INDICATES RECEPTACLE AS DESCRIBED ABOVE, EXCEPT WALL MOUNTED ABOVE COUNTER TOP, CABINET OR SHELF WITH GFI.		
⊕	DUPLEX GROUNDING TYPE RECEPTACLE, FLOOR MOUNTED. FLUSH FLOOR MOUNTED COMPLETE WITH REQUIRED ADJUSTABLE FLOOR BOX, LEVELERS, GASKETS, FLANGES AND BRASS OUTLET COVER PLATE.		
⊕	DUPLEX GROUNDING TYPE RECEPTACLE, CEILING MOUNTED.		
⊕	30 AMP, 250V, 2 POLE, 3 WIRE SINGLE RECEPTACLE WITH STAINLESS STEEL FACEPLATE, WALL MOUNTED +18".		
⊕	JUNCTION BOX		
⊕	FUSED DISCONNECT SWITCH, COMPLETE WITH REQUIRED NUMBER OF "DUAL ELEMENT TIME DELAY" FUSES, MANUFACTURER RECOMMENDATION AND SIZED PER EQUIPMENT NAMEPLATE RATING.		
■	BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.		
○	MOTOR.		
TV	T.V. SYSTEM CONDUIT, 3/4" UNLESS OTHERWISE NOTED. (REFER TO SPECIFICATIONS FOR CABLING)		
IC	INTERCOM CONDUIT, 3/4" MINIMUM SIZED AS REQUIRED BY MANUFACTURER'S WIRING DIAGRAMS (SEE INTERCOMMUNICATION SECTION OF THE SPECIFICATIONS).		
SEC	INTRUSION ALARM SYSTEM CONDUIT, 3/4" UNLESS OTHERWISE NOTED.		
D2	DATA NETWORK SYSTEM CONDUIT, (2) 4PAIR CAT 6, LEVEL 6 CABLES ROUTED IN 1" CONDUIT, UNLESS OTHERWISE NOTED		
⊙	SPEAKER WITH BAFFLE AND BACKBOX RECESSED, CEILING MOUNTED.		
⊙	SPEAKER WITH BAFFLE AND BACKBOX, WALL MOUNTED AT +7"-2".		
⊕	OUTDOOR WEATHER PROOF SPEAKER, MOUNTED AT +90".		
∇	COMPUTER/DATA OUTLET, PROVIDE 4S DEEP BOX SINGLE GANG RING, WITH RJ-45 CAT 6 JACK (QUANTITY AS SHOWN ON PLAN), MOUNT AT +18" A.F.F.		
∇	COMPUTER/DATA OUTLET FLUSH FLOOR, MOUNTED IN FLOOR BOX, COMPLETE WITH GASKETS, CARPET FLANGES AND BRASS OUTLET COVER PLATE		
⊕	SYSTEM CLOCK TO MATCH EXISTING		
▬	TERMINAL BACKBOARD, 8"-0" HIGH x 3/4" FIRE TREATED PLYWOOD, LENGTH AS INDICATED.		
MD	INTRUSION ALARM SYSTEM MOTION DETECTOR. C = CEILING MOUNTED.		
SKP	INTRUSION ALARM SYSTEM SECURITY KEY PAD, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION		
■	WIRELESS INTRUSION ALARM SYSTEM DOOR CONTACT. JAMB MOUNTED.		
○	PANEL DESIGNATION.		
○	REFERENCE NOTE DESIGNATION		
WP	WEATHERPROOF		
(N)	NEW EQUIPMENT		
GFI	"GFI" ADJACENT TO SYMBOL INDICATES GROUND FAULT INTERRUPTING TYPE RECEPTACLE		
(E)	EXISTING EQUIPMENT TO REMAIN		
(RR)	EXISTING EQUIPMENT TO BE DISCONNECTED AND RELOCATED TO NEW LOCATION		
EN	EXISTING CONDUIT WITH NEW CONDUCTORS		

SINGLE LINE NOTES

- THE CONTRACTOR SHALL BALANCE ALL SINGLE PHASE LOADS ON PHASE A, B AND C.
- ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL BE FULLY BUSSED.
- PROVIDE CONTINUOUS GROUND BussING THROUGH ALL DISTRIBUTION BOARDS AND SWITCHBOARD SECTIONS.
- PROVIDE ALL CABLE TERMINATION'S AT MAIN SERVICE SWITCHBOARD PER UTILITY COMPANY REQUIREMENTS.
- SERIES RATING OF EQUIPMENT IS NOT ALLOWED.
- PROVIDE SHORT CIRCUIT OR FAULT CURRENT AND COORDINATION STUDIES. ALL EQUIPMENT AND CIRCUIT BREAKERS AIC RATING SHALL EXCEED THE AVAILABLE FAULT CURRENT.
- CONTRACTOR SHALL BOND ALL METAL PIPING SYSTEMS AND EXPOSED STRUCTURAL STEEL PER NEC 250.104.
- PROVIDE NAMEPLATES FOR ALL MISSING IDENTIFICATIONS, USE SCREW-ON TYPE.
- PROVIDE AND INSTALL NEW IDENTIFICATION NAMEPLATES ON ALL PANELS AS INDICATED ON PANEL SCHEDULES.
- REFERENCES FEEDER LOCATION SHOWN ON E1.1 SITE PLAN.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CIRCUIT BREAKER OF THE RATING INDICATED ON THE SINGLE LINE DIAGRAM TO MATCH OR EXCEED UTILITY SHORT CIRCUIT DUTY. THE NEW CIRCUIT BREAKER SHALL BE COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE.
- GROUND RESISTANCE SHALL NOT EXCEED 25 OHMS.
- UNDERGROUND CONDUCTORS SHALL BE LISTED FOR UNDERGROUND USE AND WET LOCATION RATED AT 90°C.
- LUGS SHALL BE LISTED FOR CU/AL AND 90°C.
- FEEDER, PANELBOARD AND TRANSFORMER SHALL BE COPPER.

VOLTAGE 120/208 3φ, 4W
BUS AMPS 225
MAIN BREAKER 225 A.F. 200 A.T.
LUGS ONLY

PANEL CT

LOCATION CUSTODIAL BLDG.
TOP FEED SURFACE MTR. TO BOTTOM FEED FLUSH MTR. TO REMARKS

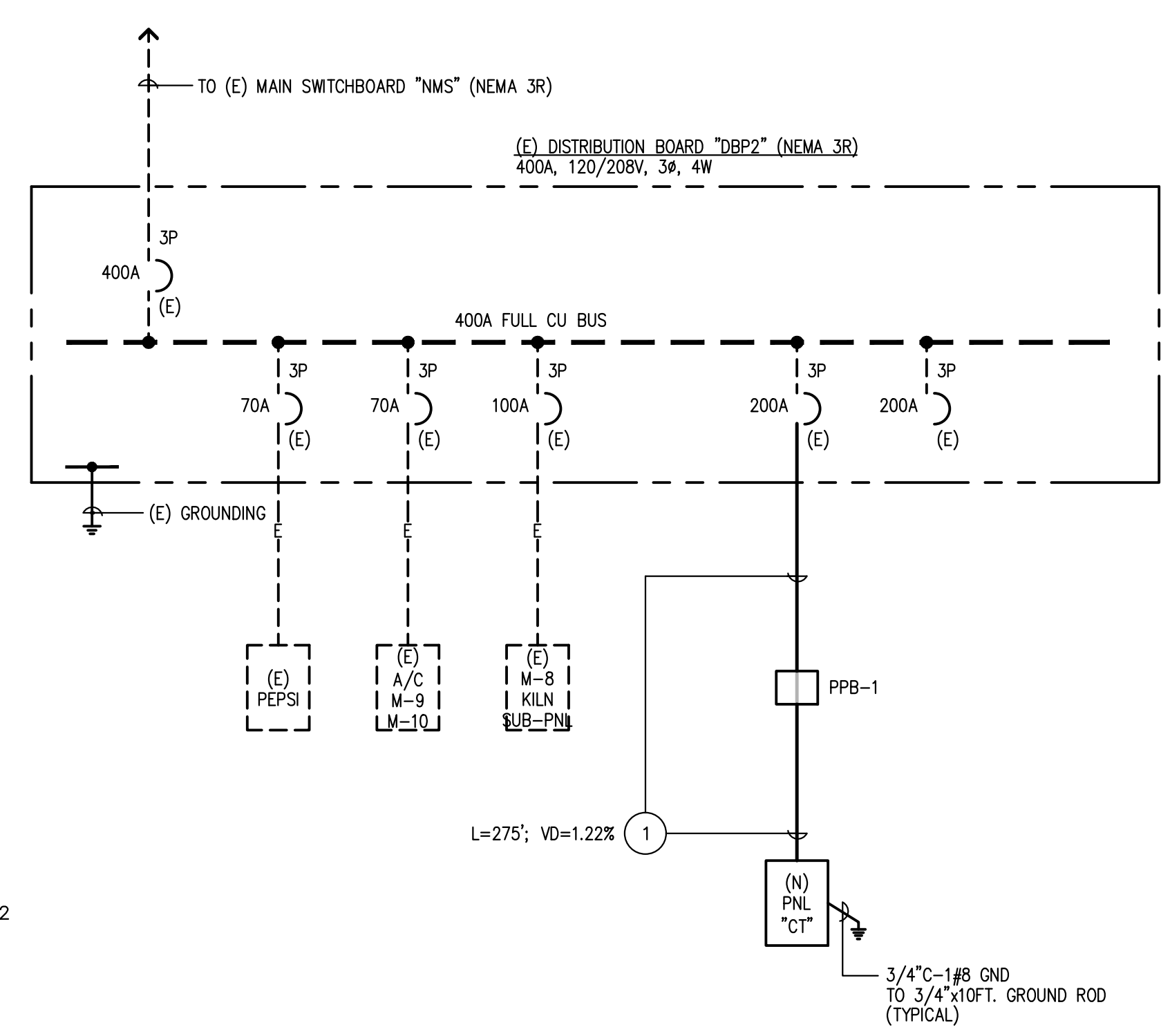
DESCRIPTION	VOLT-AMPS			OUTLETS						VOLT-AMPS						DESCRIPTION						
	A	B	C	C	L	R	M	C	K	T	C	B	L	R	M		C	K	T			
GENERAL LIGHTING	766	294						20/1	1		2	20/1	2			360	360	100	WAREHOUSE REC.			
EXTERIOR LIGHTING								20/1	3		4	20/1	2						100	WAREHOUSE REC.		
101 OFFICE REC.								20/1	5		6	20/1	2			360	360	360	100	WAREHOUSE REC.		
102 BREAK/103 TOILET REC.	750							20/1	7		8	20/1	2			360	360	360	100	WAREHOUSE REC.		
102 BREAK REC.		500						20/1	9		10	20/1	2						100	WAREHOUSE REC.		
FOPS-G (RED LOCK-ON)								20/1	11		12	20/1	2						360	100	WAREHOUSE REC.	
OU-1	1620							20/1	13		14	30/2	1			920	920			WF-1		
CEF-1		48						15/1	15		16		1							WF-2		
CEF-2		48						15/1	17		18	30/2	1			920	920			WF-2		
EFH-1	2000	2000						30/3	19		20		1			920	1130			EF-1		
									21		22	20/1	1							EF-2		
									23		24	20/1	1			1130	1130			EF-2		
103 TOILET HAND DRYER	1000							20/1	25		26	20/1	1			180	2000			EXTERIOR REC.		
PALLET JACK		2000						30/2	27		28	20/1	1			2000	2000			WELDR		
									29		30										EF-3	
ROLL-UP DOOR 1	500							20/1	31		32	20/1	1			500	500			CTC-3		
ROLL-UP DOOR 2		500						20/1	33		34	20/1	1									
CONDENSATE PUMP								15/1	35		36											
									37		38											
									39		40											
									41		42											
SUB TOTALS	6836	5342	5028													3240	5270	4770		SUB TOTALS		
CONN. PHASE TOTAL: A	9876	B	10612	C	9798											CONN. PANEL TOTAL	30288	VA:		MAX. CONN. LINE CURRENT	88	AMPS
(KVA) PANEL TOTAL	30.29	+ L.C.L. (2S)	1.13													KVA:	BALANCED CURRENT	87	AMPS:		DESIGN LOAD	KVA

GENERAL NOTES

- ALL ITEMS SUCH AS SERVICE CONDUITS, CONDUCTORS, DUCTS, PAD MOUNT, RISERS, PULLBOX AND PROTECTIVE COVERING FROM SERVICE POLE LOCATION SHALL BE PROVIDED AND/OR INSTALLED AND SHALL BE VERIFIED WITH TURLOCK IRRIGATION DISTRICT. THE CONTRACTOR SHALL INSTALL THE SERVICE IN COMPLIANCE WITH THE SERVING UTILITY COMPANY AND PAY ALL CHARGES LEVIED BY THE SERVING UTILITY COMPANY FOR THIS SERVICE AND EXCEPTING FIRST BILLING DEPOSIT.
 - ALL TELEPHONE WORK SHALL BE IN COMPLIANCE WITH THESE DRAWINGS AND REQUIREMENTS OF THE TELEPHONE COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE TELEPHONE COMPANY AND RECEIVE COMPLETE INFORMATION ON THEIR REQUIREMENTS PRIOR TO SUBMISSION OF THE BID. THE ACT OF SUBMITTING THE BID SHALL CONSTITUTE THE FULL RESPONSIBILITY OF THE CONTRACTOR TO INSTALL SERVICE IN COMPLIANCE WITH THE SERVING UTILITY AND TO PAY ALL CHARGES LEVIED BY THE SERVING UTILITY.
 - LIGHT FIXTURE SUPPORTS:
 - ALL RECESSED FIXTURES LOCATED IN DRY WALL OR PLASTER CEILINGS SHALL HAVE 1 1/2" CARRIER CHANNEL ON EACH SIDE OF THE FIXTURE. THIS CARRIER CHANNEL SHALL SET ON TOP OF AND BE WIPED TO TWO PARALLEL MAIN CHANNELS OF THE CEILING SUSPENSION SYSTEM. THE FIXTURES SHALL BE MECHANICALLY ATTACHED TO THE CARRIER CHANNELS USING (2) 3/8" BOLTS ON EACH SIDE OF THE 4" FIXTURE LENGTH.
 - ALL RECESSED LIGHT FIXTURES LOCATED IN A SUSPENDED ACOUSTICAL CEILING SHALL BE SUPPORTED DIRECTLY FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO 12 GAGE WIRES, LEVELING AND POSITIONING OF FIXTURE MAY BE PROVIDED BY THE CEILING GRID. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW FIXTURE TO SEAT IN GRID SYSTEM.
 - SURFACE MOUNTED FIXTURES IN DRYWALL OR PLASTER CEILINGS SHALL BE MOUNTED WITH (2) 3/8" BOLTS AND RODS (PER 4" OF FIXTURE LENGTH) UP THROUGH CEILING AND BOLTED TO 1 1/2" CHANNELS 1 TO FIXTURE. ATTACH CHANNELS TO MAIN CHANNELS OF CEILING SYSTEM. FIXTURES IN SUSPENDED ACOUSTICAL CEILINGS SHALL BE MOUNTED TO SAME EXCEPT THAT EACH CHANNEL SHALL BE SUPPORTED WITH ONE 12 GAGE WIRE TO THE STRUCTURE ABOVE.
 - THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES.
 - ALL OUTLETS LOCATION SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
 - THIS CONTRACTOR SHALL SUPPLY POWER TO AND MAKE CONNECTION TO ALL MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS, INCLUDING ALL FRACTIONAL HORSEPOWER MOTORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE DRAWINGS OF THE MECHANICAL AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
 - SEE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES, PANEL, TRANSFORMERS, MOTOR CONTROL CENTERS, MECHANICAL EQUIPMENT, ETC. HOMERUNS TO PANELS MAY NOT BE SHOWN ON PLANS BUT IS PART OF THE CONTRACT.
 - UNLESS OTHERWISE NOTED ALL RECESSED PANELS AND CABINETS SHALL HAVE (8) 3/4"X0. SPARE CONDUIT STUBBED UP INTO ACCESSIBLE CEILING SPACE AND CAPPED.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILINGS. WHERE FIXTURES ARE RECESSED IN PLASTER CEILINGS THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.
 - EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND SPEAKERS SHALL BE AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS.
 - UNLESS OTHERWISE NOTED MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN THE TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR.
 - ALL RECESSED LIGHTING FIXTURES, SPEAKERS, ETC. MOUNTED IN FIRE RATED CEILINGS SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING.
 - ALL SURFACE MOUNTED LIGHTING FIXTURES SHALL BE APPROVED FOR DIRECT MOUNTING ON LOW DENSITY COMBUSTIBLE CEILINGS.
 - THE NUMERAL(S) SHOWN AT THE TOP LIGHT FIXTURE IDENTIFICATION SYMBOL WHICH INDICATES NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKEOFF AT BIDDING OR FOR DETERMINATION OF HOW MANY LIGHT FIXTURES WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON DRAWINGS.
 - ALL LAMPS SHALL BE BY GENERAL ELECTRIC, PREFERABLY OF THE SAME BATCH.
 - ALL PLASTIC LENSES OR DIFFUSERS FOR FLUORESCENT AND INCANDESCENT FIXTURES SHALL BE 100% VIRGIN ACRYLIC.
 - ATTENTION IS CALLED TO THE FACT THAT THE CEILING SYSTEMS FOR THE MOST PART ARE CONSIDERED TO BE INACCESSIBLE. THEREFORE, THE CONTRACTOR MUST STRATEGICALLY LOCATE BOXES, ETC., WHICH MUST BE CONSIDERED READILY ACCESSIBLE.
 - NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
 - ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND THE WIRING DIAGRAMS ON THE MECHANICAL AND PLUMBING DRAWINGS.
 - ALL FINAL CONNECTION TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE ELECTRICAL CONTRACTOR.
 - SWITCH S₀ SHALL CONTROL THE TWO OUTSIDE LAMPS IN EACH FIXTURE, S₁ SHALL CONTROL THE REMAINING LAMPS IN EACH FIXTURE.
 - USE OF POWDER DRIVEN CONCRETE FASTENERS:
- USE OF POWDER DRIVEN CONCRETE FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT.
- ALLOWABLE LOADS -- IN GENERAL, LOADS SHOULD BE LIMITED TO LESS THAN 100 POUNDS. HOWEVER, GREATER LOADS MAY BE PERMITTED FOR SPECIAL CASES WHEN APPROVED BY THE CHECKING SUPERVISOR FIELD ENGINEER.
- TESTING -- THE OPERATOR, TOOL AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD WHICH IS NOT LESS THAN TWICE THE DESIGN LOAD OR 200 POUNDS, WHICHEVER IS GREATER, SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TEST UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE TESTED. SHOULD FAILURE OCCUR ON ANY PIN TESTED, ALL INSTALLATION MUST BE TESTED AND UNFAIR PINS REPLACED.
- THESE REQUIREMENTS ARE TO BE NOTED ON THE PLANS, OR IN THE SPECIFICATIONS.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES REQUIRED FOR THIS COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS AS INDICATED AND SPECIFIED. ALL WORK SHALL BE NEW UNLESS NOTED OR SHOWN OTHERWISE.

REFERENCE NOTES

- INSTALL NEW UNDERGROUND 2-1/2"X4-4#4/0 & 1#2 GND (THWN-2 COPPER). VERIFY EXACT ROUTING IN FIELD.



SOUTHERN CALIFORNIA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA
CALIFORNIA 91729-0729
TEL: 909-987-0909
www.wlcarchitects.com

**ROWLAND HIGH SCHOOL
NEW CUSTODIAL BUILDING**
ROWLAND UNIFIED SCHOOL DISTRICT
2000 OTTERBEIN AVE
ROWLAND HEIGHT, CA



CONSULTANT
YE YOWANTO ENGINEERING, INC.
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POMONA, CA 91767
(909) 626-6291

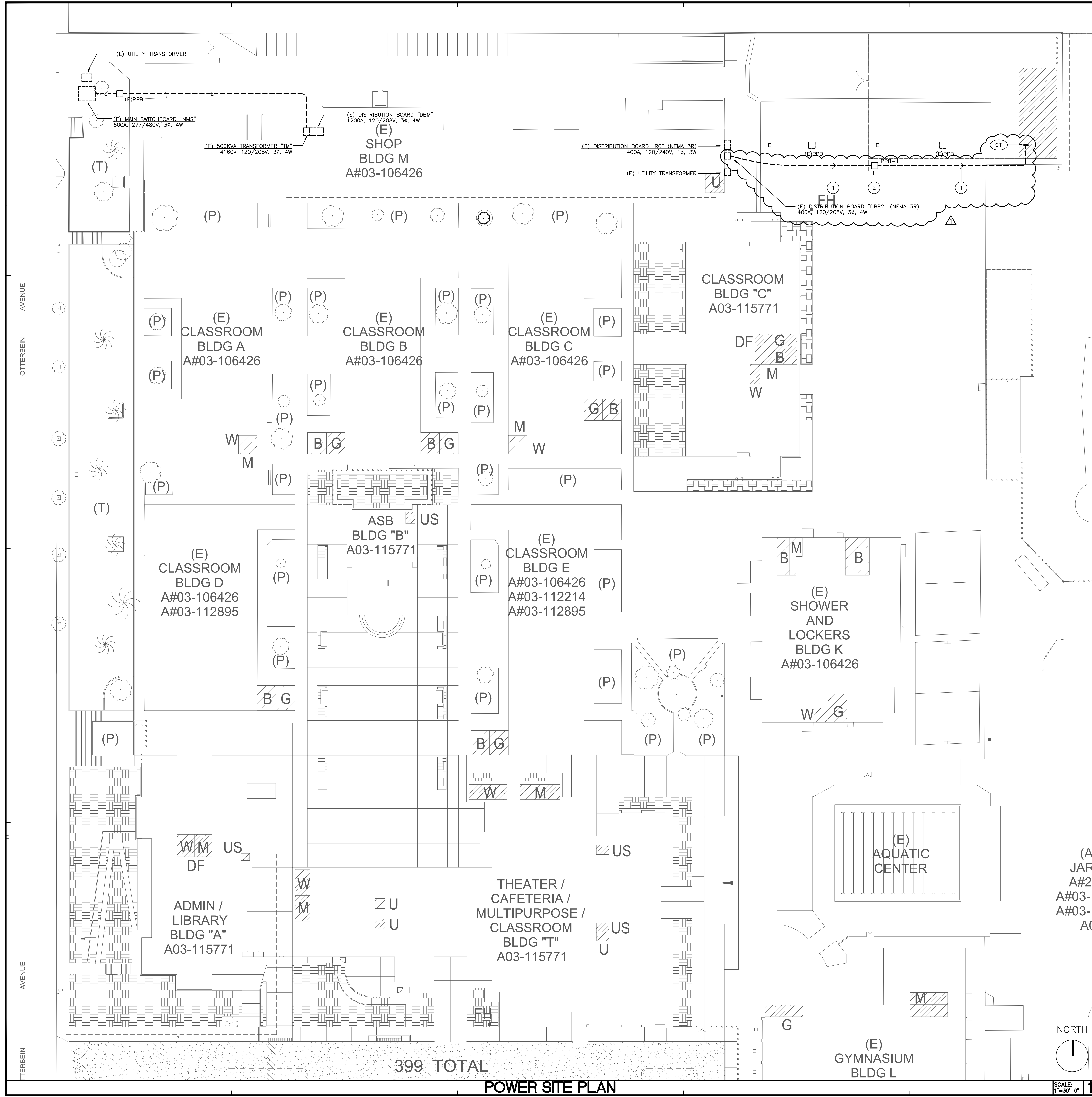
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**ELECTRICAL
SYMBOLS AND
GENERAL NOTES**

DRAWING NUMBER: **E0.1**



- ### NOTES
1. REFERENCE SINGLE LINE DIAGRAM E0.1, FOR POWER CONDUIT AND CONDUCTORS SIZES AND QUANTITIES.
 2. ALL CONDUIT AND CONDUCTORS INDICATED ON THE SINGLE LINE DIAGRAM SHALL BE A PART OF THIS CONTRACT. CONTRACTOR SHALL ROUTE CONDUIT, AS REQUIRED, TO MEET THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS.
 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS. EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTING LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH THE GENERAL CONTRACTOR AND THE ARCHITECT.
 4. REFERENCE GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 5. ALL UNDERGROUND CONDUIT RUNS SHALL BE ENCASED IN A 3" CONCRETE ENVELOPE. CONCRETE SHALL BE TINTED RED. TYPICAL.
 6. ALL UNDERGROUND CONDUITS SHALL CONTAIN GROUNDING CONDUCTORS.
 7. SPLICING OF CONDUCTORS IN PULL BOXES IS NOT ALLOWED, CONDUCTORS SHALL BE TERMINATED ON APPROVED BLOCKS IN TERMINAL CABINETS AND IDENTIFIED.
 8. LOCATION OF UNDERGROUND PULL BOXES AND CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL PULL BOX LOCATION AND ROUTING OF UNDERGROUND CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
 9. CONTRACTOR SHALL PATCH EXISTING WALL, FLOOR, CONCRETE AND ASPHALT THAT IS PART OF NEW TRENCHING TO MATCH EXISTING.

- ### REFERENCE NOTES
1. NEW UNDERGROUND CONDUITS AND CONDUCTORS. REFER TO SINGLE LINE DIAGRAM, SHEET E0.1, FOR SIZE. VERIFY EXACT ROUTING IN FIELD. TYPICAL.
 2. INSTALL NEW 24"x36" DEPTH AS REQUIRED (OR SIZE AS REQUIRED) UNDERGROUND PULL BOX WITH BOLT DOWN STEEL COVER TO READ "POWER". TYPICAL.



SOUTHERN CALIFORNIA
 8163 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA
 CALIFORNIA 91730-0729
 TEL: 909-987-0909
 www.wlcarchitects.com

**ROWLAND HIGH SCHOOL
 NEW CUSTODIAL BUILDING**
 ROWLAND UNIFIED SCHOOL DISTRICT
 2000 OTTERBEIN AVE
 ROWLAND HEIGHT, CA



CONSULTANT
YE YOWANTO ENGINEERING, INC.
 2705 TOWNE AVE., #C
 POMONA, CA 91767
 (909) 626-6291

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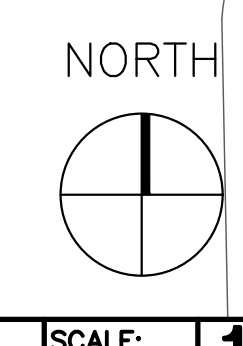
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**POWER
 SITE PLAN**

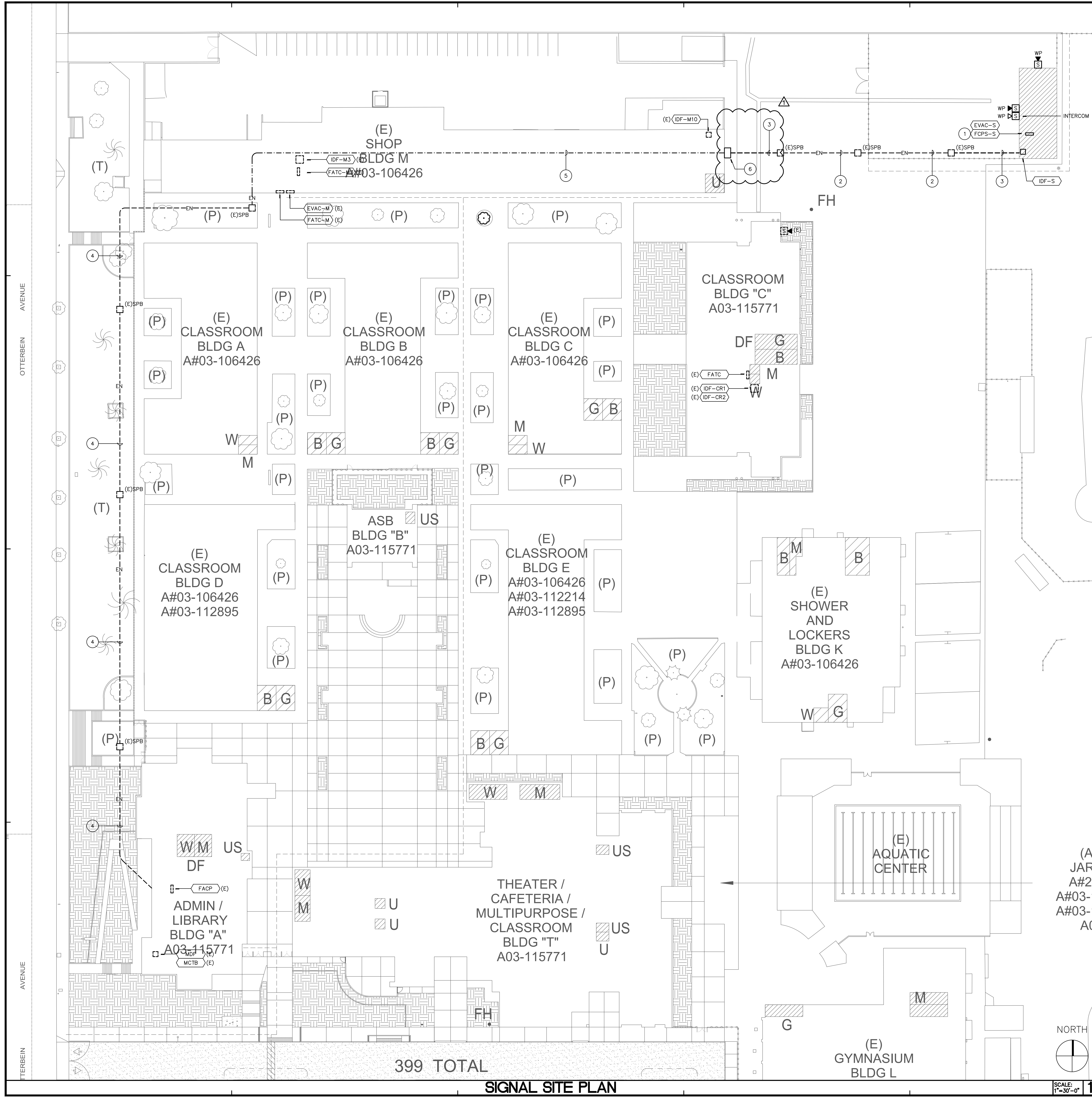
DRAWING NUMBER: **E1.1**

399 TOTAL

POWER SITE PLAN



SCALE: 1"=30'-0" 1



- ### NOTES
- REFER TO DRAWING E0.1 FOR GENERAL NOTES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING THE EXACT LOCATION OF THE "COMMUNICATIONS" PULLBOX FOR THE PROPER INTERFACE WITH THE UNDERGROUND CONDUIT STUB-UPS.
 - REFER TO DRAWING E3.1 FOR FIRE ALARM RISER DIAGRAM, SYSTEMS WIRING AND CONDUITS REQUIREMENTS.
 - CONDUIT AND WIRE/CABLE INDICATED ON THE COMMUNICATIONS BLOCK DIAGRAM AND FIRE ALARM RISER DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
 - UNDERGROUND PULL BOXES AND CONDUIT ROUTING INDICATED ON THESE PLANS ARE DIAGRAMMATIC. ACTUAL LOCATION OF PULL BOXES AND ROUTING OF UNDERGROUND CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
 - IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS. EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTING LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH THE GENERAL CONTRACTOR AND THE ARCHITECT.
 - REFER TO DRAWING E0.1, GENERAL NOTES, FOR ADDITIONAL REQUIREMENTS.
 - THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE "TS" SWITCH(ES) IN THE FIELD WITH THE SITE CONTRACTOR AND MAKE ADJUSTMENTS NECESSARY TO CONDUIT ROUTING AND MAKE ALL FINAL CONNECTIONS OF THE "TS" SWITCHES FOR A FULLY OPERABLE SYSTEM.
 - THE CONTRACTOR SHALL PROVIDE AND INSTALL BURIED, ENGRAVED CONCRETE MARKERS FOR ALL CONDUIT STUB-OUTS.
 - ALL DATA CONDUITS FOR FIBER OPTICS SHALL HAVE 4"-0" RADIUS.
 - ALL CONDUITS STUB FOR FUTURE SHALL BE TERMINATED IN PULL BOXES.
 - ALL WEATHERPROOF FIRE ALARM HORNS INDICATED ON THIS DRAWING ARE FOR PLAN CHECKER REFERENCE ONLY. REFERENCE FIRE ALARM FLOOR PLANS FOR EXACT LOCATIONS AND REQUIREMENTS.
 - SPLICING OF CONDUCTORS IN PULL BOXES IS NOT ALLOWED, CONDUCTORS SHALL BE TERMINATED ON APPROVED BLOCKS IN TERMINAL CABINETS AND IDENTIFIED.

- ### REFERENCE NOTES
- INSTALL (N) REMOTE POWER SUPPLY "FCPS-S" AND VOICE EVAC AMPLIFIER "EVAC-S". PROVIDE DEDICATED 120V POWER WITH 20A/1P BREAKER (LOCK-ON). VERIFY EXACT LOCATION IN FIELD.
 - INSTALL NEW LOW VOLTAGE CABLES IN EXISTING UNDERGROUND CONDUITS. VERIFY EXACT ROUTING IN FIELD.
 (E) 2" (NEW 12-STRAND FIBER OPTIC UNDERGROUND RATED)
 (E) 2" (NEW TEL/IC/SEC/COAX CABLES UNDERGROUND RATED)
 (E) 2" (NEW FIRE ALARM)
 - INSTALL NEW LOW VOLTAGE CABLES IN NEW UNDERGROUND CONDUITS. VERIFY EXACT ROUTING IN FIELD.
 (N) 3" (12-STRAND FIBER OPTIC UNDERGROUND RATED)
 (N) 3" (NEW TEL/IC/SEC/COAX CABLES UNDERGROUND RATED)
 (N) 2" (NEW FIRE ALARM)
 - INSTALL NEW LOW VOLTAGE CABLES IN EXISTING UNDERGROUND CONDUITS. VERIFY EXACT ROUTING AND QUANTITY IN FIELD.
 (E) 4" (NEW 12-STRAND FIBER OPTIC UNDERGROUND RATED)
 (E) 2" (NEW TEL/IC/SEC/COAX CABLES UNDERGROUND RATED)
 (E) 2" (NEW FIRE ALARM)
 - INSTALL NEW LOW VOLTAGE CABLES IN IN ATTIC SPACE USING J-HOOK AND SUPPORT PER CODE. INSTALL NEW FIRE ALARM CABLES IN NEW CONDUIT. VERIFY EXACT ROUTING AND QUANTITY IN FIELD.
 NEW 12-STRAND FIBER OPTIC - FREE AIR
 NEW TEL/IC/SEC/COAX CABLES - FREE AIR
 2" - NEW FIRE ALARM
 - INSTALL 24"x24"x8" SURFACE MOUNTED PULL BOX (NEMA 3R) OR SIZE AS REQUIRED AND METAL BARRIER FOR FIRE ALARM CABLES. INSTALL RIGID CONDUITS FOR SURFACE MOUNTED CONDUIT AND PAINT TO MATCH SURROUNDING WALL COLOR. VERIFY EXACT LOCATION AND CONDUIT ROUTING IN FIELD.

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SOUTHERN CALIFORNIA
 8163 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA
 CALIFORNIA 91730-0729
 TEL: 909-987-0909
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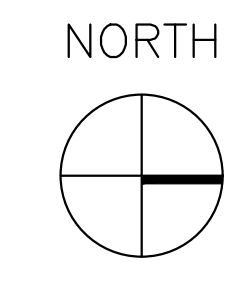
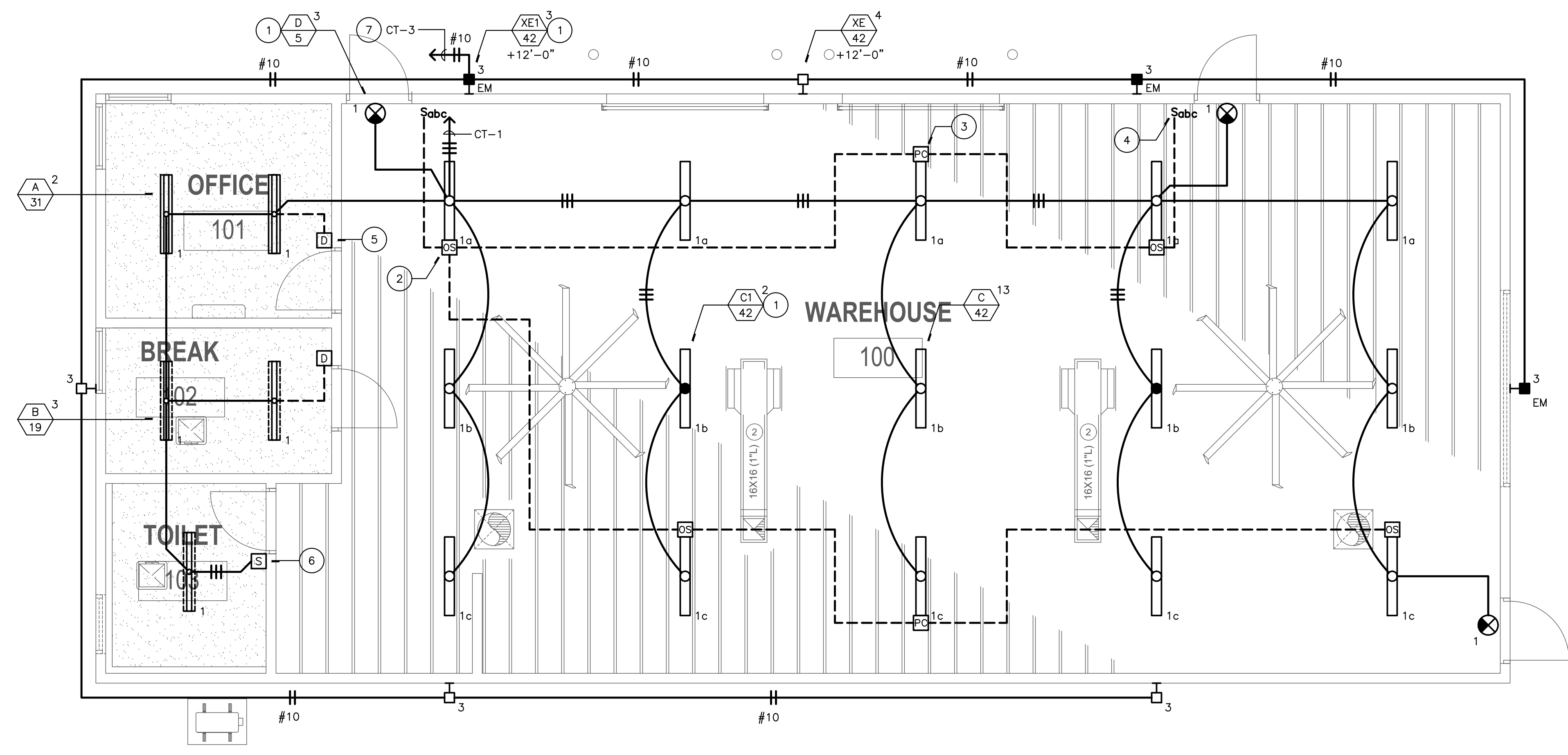
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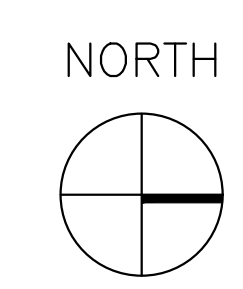
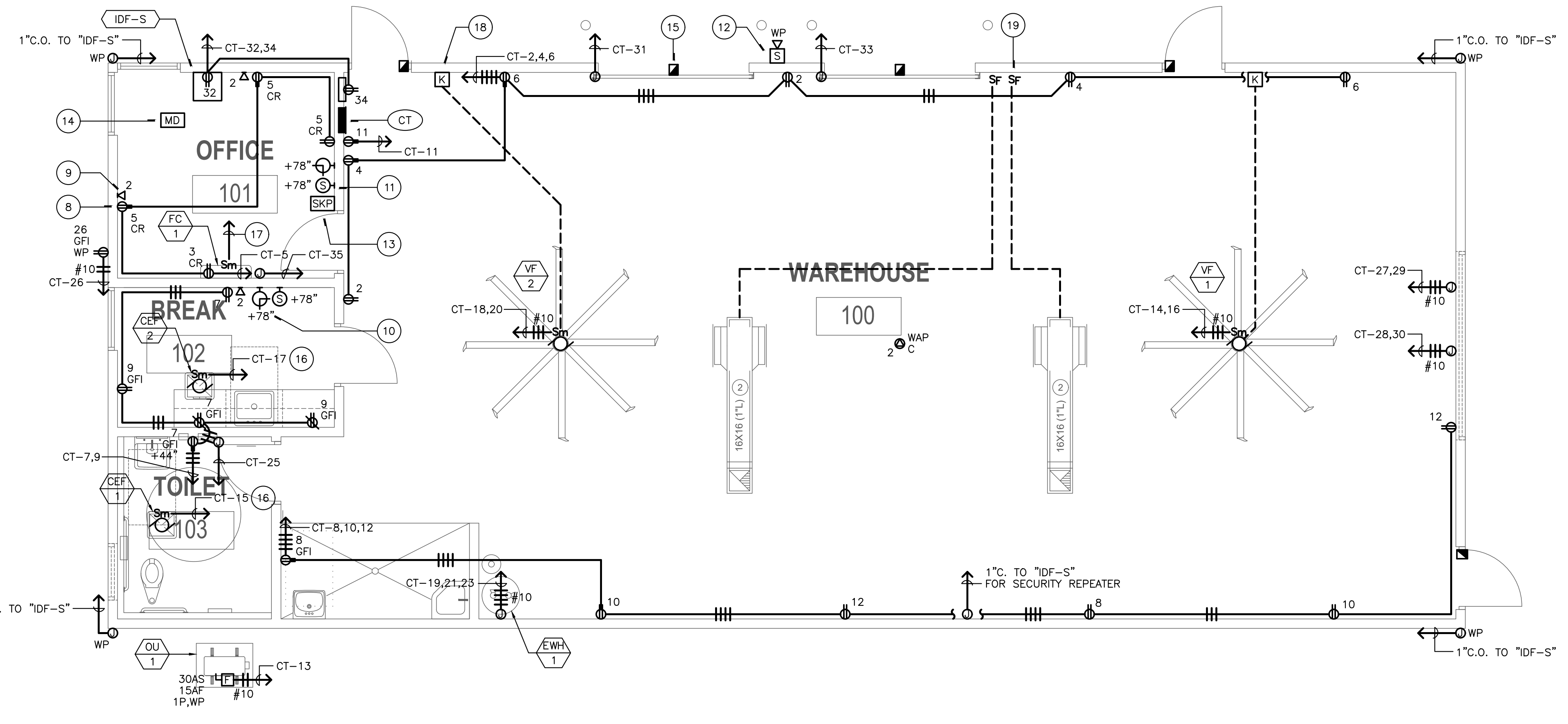
SIGNAL SITE PLAN

DRAWING NUMBER: **E1.2**



LIGHTING FLOOR PLAN

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



POWER/SIGNAL FLOOR PLAN

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

NOTES

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. REFER TO LIGHTING FIXTURE SCHEDULE THIS SHEET FOR TYPE OF FIXTURE TO BE PROVIDED AND INSTALLED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LIGHT SENSOR MANUFACTURER REPRESENTATIVE PRIOR TO ROUGH-IN AND COORDINATE THE EXACT LOCATION OF THE LIGHT SENSORS TO PROVIDE PROPER AREA COVERAGE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND MAKING REQUIRED ADJUSTMENTS TO AVOID INTERFERENCE WITH THE LIGHTING FIXTURES AND CEILING GRIDS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL EXHAUST FANS AND PROVIDING A 20A, SPST, 120V COIL RELAY CONTROLLED BY LIGHT SWITCH.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POWER PACK FOR OCCUPANCY SENSOR IF REQUIRED FOR COMPLETE AND OPERABLE SYSTEM.
7. EXACT LOCATION OF OUTLETS SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN AND SHALL BE LOCATED IN SUCH A MANNER TO AVOID INTERFERENCES WITH OTHER OUTLETS AND CASEWORK.

REFERENCE NOTES

- 1 PROVIDE CONSTANT HOT WIRE ON ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS. TYPICAL.
- 2 INSTALL CEILING MOUNTED DUAL TECHNOLOGY SENSOR BY WATTSTOPPER #LMD100 SERIES COMPLETE WITH RELAY PACK OR POWER SUPPLY #LMRC211 AS REQUIRED AND CAT 5e CABLE TO RELAY PACK OR POWER SUPPLY. TYPICAL.
- 3 INSTALL PHOTO CELL BY WATT STOPPER #MLS-500 AND CONNECT TO ROOM CONTROLLER COMPLETE WITH CABLES PER MANUFACTURER'S REQUIREMENTS. COORDINATE WITH MANUFACTURER FOR RECOMMENDED PLACEMENT AND ADJUSTMENT. TYPICAL.
- 4 INSTALL WALL SWITCH BY WATT STOPPER #MSW-104 TO ROOM CONTROLLER COMPLETE WITH CABLES PER MANUFACTURER'S REQUIREMENTS. TYPICAL.
- 5 INSTALL WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR AND 0-10V DIMMER BY WATTSTOPPER #DW-311. TYPICAL.
- 6 INSTALL WALL MOUNTED PASSIVE INFRA-RED OCCUPANCY SENSOR BY WATTSTOPPER #PW100.
- 7 ROUTE ALL EXTERIOR LIGHTING CIRCUITS THROUGH DIGITAL LIGHTING CONTROL BY WATT-STOPPER #LMRC-101. TYPICAL.
- 8 INSTALL ONE LOAD CONTROLLED PLUG BY LEVITON #16352 SERIES (DECORA) OR LEVITON #5632 SERIES (DUPLX) OR APPROVED EQUAL. CONTROLLED PLUS SHALL BE CONNECTED TO LIGHTING CONTROL RELAY. INSTALL MINIMAL ONE LOAD CONTROLLED PLUG FOR DOUBLE DUPLEX INSTALLATION. TYPICAL.
- 9 INSTALL (2) RJ-45 CAT-6 DATA OUTLETS AND (2) CAT-6 CABLES TO MDF/IDF IN IT ROOM. VERIFY EXACT LOCATION OF MDF/IDF AND LOCATION OF EACH OUTLET IN FIELD. TYPICAL.
- 10 INSTALL ANALOG SYSTEM CLOCK AND WIRE TO MATCH EXISTING. VERIFY EXACT LOCATION AND MOUNTING HEIGHT IN FIELD. TYPICAL.
- 11 INSTALL WALL MOUNTED SPEAKER (25V RMS) AT +78" A.F.F. AND INTERCOM CABLE. TYPICAL.
- 12 INSTALL EXTERIOR WEATHERPROOF SPEAKER AND INTERCOM CABLE. VERIFY MOUNTING HEIGHT IN FIELD. TYPICAL.
- 13 INSTALL SECURITY KEYPAD AND SECURITY CABLE. TYPICAL.
- 14 INSTALL SECURITY MOTION DETECTOR AND SECURITY CABLE. TYPICAL.
- 15 INSTALL SECURITY DOOR CONTACT AND SECURITY CABLE. TYPICAL.
- 16 ROUTE ELECTRICAL CIRCUIT THROUGH A 20A, SPST, COIL RELAY, CONTROLLED BY ROOM LIGHT SWITCH.
- 17 INSTALL 3/4"C-2#12 & 1#12 GND FOR POWER TO OU-1.
- 18 INSTALL FAN CONTROL AND CONTROL WIRE PER MECHANICAL DRAWINGS. VERIFY EXACT LOCATION AND MOUNTING HEIGHT. TYPICAL.
- 19 INSTALL FAN SWITCH AND CONTROL WIRE PER MECHANICAL DRAWINGS. VERIFY EXACT LOCATION AND MOUNTING HEIGHT. TYPICAL.

FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
A 31	4' SURFACE MOUNTED WRAP AROUND LED LIGHT FIXTURE AND 0-10V DIMMING DRIVER.	COLUMBIA #LWC-4-40-MW-EDU
B 19	4' SURFACE MOUNTED WRAP AROUND LED LIGHT FIXTURE AND 0-10V DIMMING DRIVER.	COLUMBIA #LWC-4-40-XW-EDU
C 42	4' SURFACE MOUNTED STRIP LED LIGHT FIXTURE, 0-10V DIMMING DRIVER, AND ALL NECESSARY MOUNTING HARDWARE.	COLUMBIA #LBL-4-40ML-EDU
CT 42	4' SURFACE MOUNTED STRIP LED LIGHT FIXTURE, 0-10V DIMMING DRIVER, AND ALL NECESSARY MOUNTING HARDWARE. (90-MIN. BATTERY PACK)	COLUMBIA #LBL-4-40ML-EDU-ELL14
D 5	LED EXIT SIGN HOUSING AND GREEN LETTER. (90-MIN. EM. BATTERY)	DUAL-LITE #EVE-U-G-W-1
XE 42	WALL MOUNTED LED LIGHT FIXTURE WITH FLAT LENS, BUILT-IN OCCUPANCY SENSOR, AND 0-10V DIMMING DRIVER.	KIM LIGHTING #WDS-D-24L-40-4K8-3-UNV-BL-SCP-20F
XE1 42	WALL MOUNTED LED LIGHT FIXTURE WITH FLAT LENS, BUILT-IN OCCUPANCY SENSOR AND 0-10V DIMMING DRIVER. (90-MIN. BATTERY PACK)	KIM LIGHTING #WDS-D-24L-40-4K8-3-UNV-BL-SCP-20F-EM

ARCHITECTS
WLC
 CLIENT FOCUSED • PASSION DRIVEN
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 RANCHO CUCAMONGA
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**LIGHTING AND
 POWER FLOOR PLAN**

DRAWING NUMBER: **E2.1**