





**2016 California Green Code  
Mandatory Requirements Checklist for Non-Residential Buildings with Additions of 1,000 sq. ft. or more, or Alterations with a Valuation of \$200,000 or more.**  
(INCORPORATE THIS FORM ONTO A BUILDING PLAN SHEET)

Project Address: 4710 Freepoint Blvd Suite 12K-A, Sacramento, CA 95822 Date: 2.13.19

ITEM #	CODE SECTION	REQUIREMENT	REFERENCE SHEET (Sheet # or N/A)	COMMENTS (note # or detail #)
<b>PLANNING AND DESIGN</b>				
1	5.106.1	Storm Water Pollution Prevention Plan	N/A	EXISTING BLDG. INTERIOR REMODEL
2	5.106.4.1.1	Short term bicycle parking (≥ 10 vehicular parking spaces added)	N/A	EXISTING BLDG. INTERIOR REMODEL
3	5.106.4.1.2	Long term bicycle parking (Over 10 tenant occupants or ≥ 10 vehicular parking spaces added)	N/A	EXISTING BLDG. INTERIOR REMODEL
4	5.106.5.2	Designated parking (≥ 10 vehicular parking spaces added)	N/A	EXISTING BLDG. INTERIOR REMODEL
5	5.106.10	Grading and Paving	N/A	EXISTING BLDG. INTERIOR REMODEL
<b>WATER EFFICIENCY &amp; CONSERVATION</b>				
6	5.303.1	Meters		
7	5.303.3	Water Conserving Fixtures		
8	5.304	Outdoor Water Use		
<b>MATERIAL CONSERVATION &amp; RESOURCE EFFICIENCY</b>				
9	5.407.1	Weather protection	N/A	INTERIOR REMODEL
10	5.407.2.1	Sprinklers	N/A	UNDER SEPARATE PERMIT
11	5.407.2.2	Entries and Openings	N/A	INTERIOR REMODEL
12	5.407.2.2.2	Flashing	N/A	INTERIOR REMODEL
13	5.408.1	Construction waste diversion	AD.0A	
14	5.408.3	Excavated soil and land clearing debris	N/A	INTERIOR REMODEL
15	5.410.1	Recycling by occupants	N/A	NO ADDITION TO FLOOR AREA
16	5.410.4	Testing, Adjusting and Balancing (<10,000 sq. ft.)	N/A	EXISTING BUILDING
17	5.410.4.2	Systems	AD.0A	
18	5.410.4.3	Procedures	AD.0A	
19	5.410.4.3.1	HVAC Balancing	AD.0A	
20	5.410.4.4	Reporting	AD.0A	
21	5.410.5	Operation and Maintenance Manual	AD.0A	
22	5.410.5.1	Inspections and Reports	AD.0A	

ENVIRONMENTAL QUALITY				
23	5.503.1	Fireplaces and Woodstoves	N/A	NOT USED
24	5.503.1.3	Temporary ventilation	AD.0A	
25	5.504.3	Covering of Duct Openings and Protection of Mechanical Equipment During Construction	AD.0A	
26	5.504.4	Finish Material Pollutant Control		
27	5.504.4.1	Adhesives, Sealants, Caulks	AD.0A	
28	5.504.4.3	Paints and Coatings	AD.0A	
29	5.504.4.3.1	Aerosol Paints and Coatings	N/A	NOT USED
30	5.504.4.3.2	Verification/Cert. of Compliance City Form		CDD-0179 Required
31	5.504.4.4	Carpet Systems	AD.0A	
32	5.504.4.4.1	Carpet Cushion	AD.0A	
33	5.504.4.4.2	Carpet adhesive	AD.0A	
34	5.504.4.5	Composite Wood Products	AD.0A	
35	5.504.4.6	Resilient Flooring Systems	AD.0A	
36	5.504.4.6.1	Verification/Cert. of Compliance City Form		CDD-0179 Required
37	5.504.5.3	Filters (MERV 8 minimum)	AD.0A	
38	5.504.7	Environmental tobacco smoke (ETS) control	N/A	INTERIOR REMODEL
39	5.505.1	Indoor moisture control	AD.0A	
40	5.506.1	Outside air delivery		
41	5.506.2	Carbon dioxide (CO2) monitoring	AD.0A	
42	5.507.4	Acoustical control		
43	5.507.4.1	Exterior noise transmission	N/A	
44	5.507.4.3	Interior sound transmission	N/A	
45	5.508.1	Ozone depletion and global warming reductions (CFCs or Halons)	N/A	

Notes:

- Identify all applicable items. Some items may not apply to interior alterations.
- Verification of compliance with items 29 through 38 require written documentation using form CDD-179 VOC Self Certify Checklist. Form must be completed prior to final inspection.
- California Green Code is available online at <http://codes.iccsafe.org/app/book/toc/2016/California/Green/index.html>

**GREEN BUILDING CODE  
PLAN CHECK NOTES**

- NEW PLUMBING FIXTURES AND FITTINGS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE.
- FLOW RATE SPECIFIED IN SECTION 5.303.2. (5.303.2)
- FOR ALL NEW EQUIPMENT, AN OPERATION & SYSTEMS MANUAL SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION. (5.410.4.5)
- IF THE NEW HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY. (5.504.1.3)
- ALL NEW DUCTS AND OTHER NEW RELATED AIR DISTRIBUTION COMPONENTS OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT. (5.504.3)
- ARCHITECTURAL PAINTS AND COATINGS, ADHESIVES, CAULKS AND SEALANTS SHALL COMPLY WITH THE VOLATILE ORGANIC COMPOUND (VOC) LIMITS LISTED IN TABLES 5.504.4.1-5.504.4.3. (5.504.4.1-5.504.4.3)
- THE VOC CONTENT VERIFICATION CHECKLIST, FORM GRN 2, SHALL BE COMPLETED AND VERIFIED PRIOR TO FINAL INSPECTION APPROVAL. THE MANUFACTURER'S SPECIFICATIONS SHOWING VOC CONTENT FOR ALL APPLICABLE PRODUCTS SHALL BE READILY AVAILABLE AT THE JOB SITE AND BE PROVIDED TO THE FIELD INSPECTOR FOR VERIFICATION. (5.504.4.3.2)
- ALL NEW CARPET INSTALLED IN THE BUILDING INTERIOR MEETS THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:
  - CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM
  - CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S SPECIFICATION 01350 C. NSF/ANSI 140 AT THE GOLD LEVEL
  - SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE™ GOLD (5.504.4.4)
- ALL NEW CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM. (5.504.4.4.1)
- NEW HARDWOOD PLYWOOD, PARTICLE BOARD, AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED IN THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE FORMALDEHYDE LIMITS. (5.504.4.5, 10-504.4.5)
- THE FORMALDEHYDE EMISSIONS VERIFICATION CHECKLIST, FORM GRN 3, SHALL BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL.
- THE MANUFACTURER'S SPECIFICATIONS SHOWING FORMALDEHYDE CONTENT FOR ALL APPLICABLE WOOD PRODUCTS SHALL BE READILY AVAILABLE AT THE JOB SITE AND BE PROVIDED TO THE FIELD INSPECTOR FOR VERIFICATION. (5.504.4.5)
- 80% OF THE TOTAL AREA RECEIVING NEW RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:
  - VOC EMISSION LIMITS DEFINED IN THE CHPS HIGH PERFORMANCE PRODUCTS DATABASE
  - PRODUCTS COMPLIANT WITH THE CHPS CRITERIA CERTIFIED UNDER THE GREENGUARD CHILDREN & SCHOOLS PROGRAM
  - CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM
  - MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S SPECIFICATION 01350 (5.504.4.6)
- AN AIR FILTER WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8 OR HIGHER SHALL BE INSTALLED IN THE MECHANICAL SYSTEM FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY. (5.504.5.3)
- DESIGNATED OUTDOOR SMOKING AREA SHALL BE AT LEAST 25 FEET FROM AN OUTDOOR AIR INTAKE OR OPERABLE WINDOWS. (5.504.7)
- THE BUILDING SHALL MEET OR EXCEED THE PROVISIONS FOR MECHANICAL VENTILATION OF SECTION 1203 OF THE CALIFORNIA BUILDING CODE. (5.505.1)
- VENTILATED SPACES IN BUILDINGS SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 121 OF THE CALIFORNIA ENERGY CODE AND CHAPTER 4 OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 8. (5.506.1)
- BUILDINGS THAT USE DEMAND CONTROL VENTILATION SHALL HAVE CO2 SENSORS AND VENTILATION CONTROLS INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE CALIFORNIA ENERGY CODE, CCR.

**GREEN BUILDING CODE HVAC  
PLAN CHECK NOTES**

TESTING AND ADJUSTING

- TESTING AND ADJUSTMENT IS REQUIRED FOR ALL NEW INSTALLATION OF ANY OF THE FOLLOWING SYSTEMS:
- HEATING AND AIR CONDITIONING SYSTEM  
DESCRIBE THE HVAC SYSTEM AND CONTROLS  
PLANS SHALL INDICATE THAT THE HVAC SYSTEM AND COMPONENTS WILL BE TESTED, ADJUSTED AND BALANCED IN ACCORDANCE WITH ONE OF THE FOLLOWING STANDARDS
    - TABBS' CONSTRUCTION SPECIFICATION INSTITUTE MANSTERFORMANT 23 05 9 3 AND 15990
    - NEBB'S STANDARDS FOR TESTING, ADJUSTMENT, AND BALANCING OF ENVIRONMENTAL SYSTEMS (7TH EDITION)
    - AABC'S NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE (6TH EDITION) ASHRAE'S STANDARD 111-2008

**GENERAL NOTES**

- GENERAL CONTRACTOR AND SUB CONTRACTORS TO ENSURE THAT THE FOLLOWING CRITERIA ARE MET:
- 100% MIXED DEBRIS SHALL BE TRANSPORTED BY A REGISTERED HAULER TO A REGISTERED FACILITY AND BE PROCESSED FOR RECYCLING, IN COMPLIANCE WITH THE CALIFORNIA CONSTRUCTION AND DEMOLITION DEBRIS ORDINANCE.
  - PROTECT OPENINGS AND MECHANICAL EQUIPMENT DURING CONSTRUCTION (13C.5.504.3)
  - ADHESIVES, SEALANTS AND CAULKS SHALL COMPLY WITH VOC LIMITS IN SCAQMD RULE 1168 VOC LIMITS AND CALIFORNIA CODE OF REGULATIONS TITLE 17 FOR AEROSOL ADHESIVES. (13C.5.504.4.1)
  - PAINTS AND COATINGS TO COMPLY WITH VOC LIMITS IN THE AIR RESOURCES BOARD ARCHITECTURAL COATING SUGGESTED CONTROL MEASURE AND CALIFORNIA CODE OF REGULATIONS TITLE 17 FOR AEROSOL PAINTS. (13C.5.504.4.3)
  - CARPET MUST MEET ONE OF THE FOLLOWING:
    - CARPET AND RUG INSTITUTE GREEN LABEL PLUS PROGRAM.
    - CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD PRACTICE FOR THE TESTING OF VOC'S. (SPECIFICATION 01350)
    - NSF/ANSI 140 AT THE GOLD LEVEL.
    - SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE. AND CARPET CUSHION MUST MEET CRI GREEN LABEL AND CARPET

**GENERAL NOTES**

- ADHESIVES, SEALANTS AND CAULKS SHALL COMPLY WITH VOC AND FORMALDEHYDE LIMITS SHOWN ON FORM CDD-0182 (THIS SHEET) ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECTS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
  - ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH VOC AND FORMALDEHYDE LIMITS SHOWN ON FORM CDD-0182 (THIS SHEET) CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE. OR SCAQMD RULES 1168 VOC LIMITS.
  - AEROSOL ADHESIVES, AND SMALLER UNITS SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPONENTS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA GREEN CODE REGULATIONS, TITLE 17, COMMENCING WITH SEC. 94507
  - COMPOSITE WOOD PRODUCTS  
HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET CARB AIR TOXINS CONTROL MEASURE FOR COMPOSITE WOOD. (13C.5.504.4.5) AND SHALL COMPLY WITH VOC AND FORMALDEHYDE LIMITS SHOWN ON FORM CDD-0182 (THIS SHEET)
  - COMPOSITE WOOD USED SHALL MEET CARB AIR TOXINS CONTROL MEASURE FOR COMPOSITE WOOD. (13C.5.504.4.5)
  - 50% OF THE FLOOR AREA RECEIVING RESILIENT FLOORING MUST COMPLY WITH THE VOC EMISSION LIMITS DEFINED IN THE 2009 COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) CRITERIA OR CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE PROGRAM. (13C.5.504.5)
  - DIVERT 75% OF THE CONSTRUCTION AND DEMOLITION DEBRIS (IF 10% MORE THAN REQUIRED BY THE CALIFORNIA CONSTRUCTION & DEMOLITION DEBRIS ORDINANCE).
  - PROVIDE A LEAST MERV-8 FILTERS IN REGULARLY OCCUPIED SPACES OF MECHANICALLY VENTILATED BUILDINGS.
  - CONSTRUCTION WASTE MANAGEMENT: RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM 50% OF THE NON HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH GREEN BUILDING CODE SEC. 5.408.1
  - SYSTEMS DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT:
    - HVAC SYSTEM AND CONTROLS.
    - INDOOR LIGHTING CONTROLS.
    - WATER HEATING SYSTEMS.
    - RENEWABLE ENERGY SYSTEMS.
  - PROCEDURES PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.
  - HVAC BALANCING IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING AND ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS.
  - REPORTING AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT TESTING OF SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
  - OPERATION AND MAINTENANCE (O & M) MANUAL PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SEC. 5142, AND OTHER RELATED REGULATIONS.
  - INSPECTIONS AND REPORTS INCLUDE COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
  - TEMPORARY VENTILATION THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 80% BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.
  - COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER SYSTEM.
  - VERIFICATION VERIFICATION OF COMPLIANCE WITH CALIFORNIA GREEN BUILDING STANDARDS SEC. 5.504.4.3.2 SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:
    - MANUFACTURER'S PRODUCT SPECIFICATION
    - FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS
  - CARPET CUSHION ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE R REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PROGRAM.
  - CARPET ADHESIVE ALL CARPET ADHESIVE SHALL COMPLY WITH VOC AND FORMALDEHYDE LIMITS SHOWN ON FORM CDD-0182 (THIS SHEET)
  - RESILIENT FLOOR SYSTEMS FOR 80% OF FLOOR AREA RECEIVING RESILIENT FLOORING, INSTALLED RESILIENT FLOORING SHALL MEET ONE OF THE FOLLOWING:
    - SHALL COMPLY WITH VOC AND FORMALDEHYDE LIMITS SHOWN ON FORM CDD-0182 (THIS SHEET)
    - CERTIFIED UNDER RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM
  - FILTERS IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY VALUE (MERV) OF 8. MERV 8 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL UNLESS MECHANICAL EQUIPMENT EXISTING.
  - INDOOR MOISTURE CONTROL BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24 PART 2, SEC. 1203 (VENTILATION)
  - CARBON DIOXIDE (CO2) MONITORING FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROL SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 2016 CALIFORNIA ENERGY CODE, SEC. 1201(c)(4).
  - SEISMIC GAS SHUTOFF VALVE AN APPROVED SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWNSTREAM SIDE OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING. (PER ORDINANCE 170, 158) (INCLUDES COMMERCIAL ADDITIONS AND TI WORK OVER \$10,000.) SEPARATE PLUMBING PERMIT IS REQUIRED. A COPY OF THE EVALUATION REPORT AND OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

CLIENT

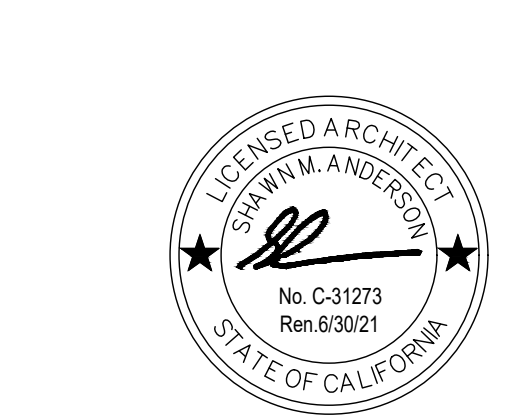


ARCHITECT



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REGISTRATION



CONSULTANT

UNAUTHORIZED CHANGES

CLIENT SHALL NOT PERMIT ANY PERSON RETAINED, HIRED, CONSULTED OR OTHERWISE EMPLOYED BY CLIENT, INCLUDING BUT NOT LIMITED TO GENERAL CONTRACTORS, SUBCONTRACTORS, SUPPLIERS, ARCHITECTS, ENGINEERS OR OTHER DESIGN PROFESSIONALS, TO MAKE ANY CHANGE TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY PROJECT ARCHITECT WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT. TO THE EXTENT ANY SUCH CHANGES ARE MADE WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT, CLIENT RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

PROJECT LOCATION

PET FOOD EXPRESS  
4710 Freepoint Blvd, Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

CAL GREEN CODE CHECKLIST

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

A0.0A

**2016 California Green Code Non-Residential VOC and Formaldehyde Limits**  
(INCORPORATE THIS FORM INTO THE BUILDING PLANS)

Table 5.504.4.5 FORMALDEHYDE LIMITS <sup>1</sup> Maximum Formaldehyde Emissions in Parts per Million		Table 5.504.4.1 ADHESIVE VOC LIMIT <sup>1,2</sup> Less Water and Less Exempt Compounds in Grams per Liter	
Product	Current Limit	Architectural Applications	Current VOC Limit
Hardwood plywood veneer core	0.05	Indoor carpet adhesives	50
Hardwood plywood composite core	0.08	Carpet pad adhesives	50
Particle board	0.09	Outdoor carpet adhesives	150
Medium density fiberboard	0.11	Wood flooring adhesives	100
Thin medium density fiberboard <sup>2</sup>	0.13	Rubber floor adhesives	60
1. Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E1333. For additional information, see California Code of Regulations, Title 17, Sections 93120 through 93120.12.			
2. Thin medium density fiberboard has a maximum thickness of 5/16 inch (8 mm).			
Table 5.504.4.2 SEALANT VOC LIMIT Less Water and Less Exempt Compounds in Grams per Liter		Specialty Applications	
Sealants	Current VOC Limit	PVC welding	510
Architectural	250	CPVC welding	490
Marine deck	760	ABS welding	325
Non-membrane roof	300	Plastic cement welding	350
Roadway	250	Adhesive primer for plastic	550
Single-ply roof membrane	450	Contact adhesive	80
Other	420	Special purpose contact adhesive	250
<b>Sealant Primers</b>		Structural wood member adhesive	140
Architectural: Nonporous	250	Top and trim adhesive	250
Architectural: Porous	775	<b>Substrate Specific Applications</b>	
Modified bituminous	500	Metal to metal	30
Marine deck	760	Plastic foams	50
Other	750	Porous material (except wood)	50
Note: For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management District Rule 1168.			
1. If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.			
2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168. <a href="http://arb.ca.gov/DROBS/SCAQMPHTMLR1168.PDF">http://arb.ca.gov/DROBS/SCAQMPHTMLR1168.PDF</a> .			
3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, Feb. 1, 2008. More information is available from the Air Resources Board.			







GENERAL NOTES

GENERAL CONSTRUCTION NOTES:

GENERAL CONTRACTOR (IF REQUIRED) SHALL BE REGISTERED WITH THE LOCAL MUNICIPALITY AND SHALL CONFORM WITH ALL APPLICABLE FEDERAL, STATE, LOCAL AND OSHA CODES AND REGULATIONS.

GENERAL CONTRACTOR SHALL INCLUDE THE COST OF ALL BUILDING PERMITS, INSPECTION FEES, SHUTDOWN COSTS, LICENSES, ETC. IN HIS CONTRACT.

THE GENERAL CONTRACTOR AND SUB CONTRACTORS SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH ALL THE EXISTING CONDITIONS UNDER WHICH THEY WILL BE OBLIGED IN PERFORMING AS PART OF THE WORK. VERIFY ACCESS, BARRICADE REQUIREMENTS, TEMPORARY POWER AND HVAC REQUIREMENTS AND OTHER "AS IS" CONDITIONS OF THE SITE.

THE GENERAL CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS. UNLESS OTHERWISE NOTED, THE GENERAL CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR AND MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION MACHINERY, TRANSPORTATION, PERMITS AND OTHER SERVICES AND FACILITIES NECESSARY FOR PROPER AND TIMELY EXECUTION OF WORK.

ALL CONTRACTORS SHALL COORDINATE THEIR WORK WITH THE WORK OF OTHERS OR WITH EXISTING CONDITIONS OCCURRING ADJACENT, ABOVE OR BELOW LEASED PREMISES. GENERAL CONTRACTOR MAY BE REQUIRED TO MAKE CHANGES FROM TIME TO TIME TO ACCOMMODATE SUCH WORK OR CONDITIONS. DAMAGE TO "FINISHED WORK" OF THE BUILDING RESULTING FROM HIS FAILURE TO COORDINATE WORK MUST BE MADE GOOD BY HIM AT HIS OWN EXPENSE WHEN DIRECTED BY PET FOOD EXPRESS'S FIELD REPRESENTATIVE AND/OR THE LANDLORD'S FIELD REPRESENTATIVE.

CONTRACTORS SHALL CONFINED CONSTRUCTION WORK TO WITHIN THE LEASED PREMISES AS MUCH AS POSSIBLE AND SHALL WORK IN AN ORDERLY MANNER, REMOVING TRASH AND DEBRIS FROM PROJECT ON A DAILY BASIS TO A DUMPSTER PROVIDED BY THE GENERAL CONTRACTOR. AFTER THE WORK HAS BEEN COMPLETED, ALL EXCESS MATERIAL SHALL BE REMOVED FROM PREMISES.

THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE FIELD CONDITIONS, EXISTING DIMENSIONS, AND THOSE INDICATED ON THE DRAWINGS, THE GENERAL CONTRACTOR SHALL CONTACT PET FOOD EXPRESS 500 85TH STREET, OAKLAND, CA 94621, PHONE: 510-924-3318.

IN THE CASE OF DISCREPANCIES OR AMBIGUITIES WITH IN THE DRAWINGS AND/OR SPECIFICATIONS, THE GENERAL CONTRACTOR SHALL CALL PET FOOD EXPRESS FOR A DETERMINATION AND/OR CLARIFICATION PRIOR TO ORDERING MATERIALS OR STARTING CONSTRUCTION IN THE AREA IN QUESTION.

THE GENERAL CONTRACTOR IS TO COOPERATE AND COORDINATE WITH THE LANDLORD, THE OWNERS OF ADJACENT TENANT SPACES AND PET FOOD EXPRESS IN SCHEDULING WORK IN ORDER TO CAUSE THE LEAST INCONVENIENCE TO PERSONNEL AND PROPERTY.

IF THE SITE REQUIRES A CONSTRUCTION BARRICADE, THE GENERAL CONTRACTOR SHALL INCLUDE THE BARRICADE IN HIS WORK AND BID. ALL CONSTRUCTION DEFICIENCIES REMOVED AND SAFETY ISSUES RESOLVED BEFORE REMOVAL OF BARRICADE. GENERAL CONTRACTOR SHALL ADHERE TO LANDLORD RULES AND REQUIREMENTS ON BARRICADES WHERE APPLICABLE.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR UNLOADING ALL PET FOOD EXPRESS SUPPLIED MATERIALS AT THE JOB SITE. GENERAL CONTRACTOR SHALL PROVIDE A SECURE STORAGE AREA FOR HOLDING ALL PET FOOD EXPRESS SUPPLIED MATERIALS. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE INSPECTION OF ALL MATERIALS DELIVERED AND MUST SIGN SHIPPING DOCUMENTS INDICATING ANY AND ALL DAMAGES, MISSING ITEMS AND FORWARD THE SAME SHIPPING DOCUMENTS TO THE PET FOOD EXPRESS PROJECT MANAGER. FAILURE TO DO SO WILL BE DEEMED THAT THE MATERIALS WERE RECEIVED WITHOUT DAMAGE AND ANY FUTURE DAMAGE WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

THE GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE MANPOWER FOR COMPLETING THE PROJECT WITHIN THE SCHEDULED TIME. SHOULD THE GENERAL CONTRACTOR OR SUBCONTRACTOR FALL BEHIND IN THE WORK, IT WILL BE WITHOUT ADDITIONAL COST TO PET FOOD EXPRESS.

THE GENERAL CONTRACTOR SHALL PROVIDE A SITE PHONE TO ALLOW FOR DAILY COMMUNICATION WITH THE PET FOOD EXPRESS PROJECT MANAGER.

GENERAL CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED TO INSTALL ALL MATERIAL AS CALLED FOR WITHIN THESE SPECIFICATIONS AND/OR SHOWN ON THE PLANS, OR AS MAY BE REASONABLY IMPLIED TO PROPERLY EXECUTE THE WORK IN THEIR RESPECTIVE "SCOPES". NO EXTRAS WILL BE ALLOWED TO THE GENERAL CONTRACTOR OR SUBCONTRACTOR ON ACCOUNT OF HIS FAILURE TO INCLUDE ALL MATERIALS AND LABOR REQUIRED TO COMPLETE THE WORK AS INTENDED OR MENTIONED IN THE DOCUMENTS.

DELIVER ALL MATERIALS TO THE PROJECT PROPERLY PACKAGED AND ACCURATELY LABELED, AND STORE THEM OFF THE GROUND OR SLAB AND UNDER COVER IN AN AREA DESIGNATED BY THE GENERAL CONTRACTOR. PLACE THE MATERIALS TO FACILITATE ON INVENTORY, VERIFICATION OF QUANTITIES, MODELS, AND COLORS. DO NOT INSTALL DAMAGED MATERIALS.

ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED INSTALLED, CONNECTED, ERECTED, USED, CLEANED AND CONDITIONED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS OR INSTRUCTIONS.

EACH CONTRACTOR SHALL PROVIDE SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK. LOCATE THE SCAFFOLDING TO MINIMIZE INTERFERENCE WITH THE WORK OF OTHERS. MAINTAIN THE SCAFFOLDING IN A SAFE CONDITION, AS THE WORK IS COMPLETED, REMOVE SCAFFOLDING TO A SAFE AREA.

PROTECT ALL FINISHED WORK INSTALLED BY OTHER TRADES. REPAIR OR REPLACE TO THE SATISFACTION OF PET FOOD EXPRESS ANY WORK DAMAGED BY THE WORK DONE IN THIS AREA.

DIMENSIONS ARE TO THE CENTER OF THE STRUCTURAL GRID OR TO THE FACE OF FINISH UNLESS OTHERWISE INDICATED. THESE DRAWINGS INDICATE THE GENERAL ARRANGEMENT, DESIGN, AND EXTENT OF WORK AND ARE MORE OR LESS DIAGRAMMATIC UNLESS OTHERWISE NOTED. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

ALL CUTTING AND PATCHING THAT MAY BE NECESSARY FOR THE REVISION OF THE BUILDING SHALL BE MADE AND REPAIRED BY THE GENERAL CONTRACTOR UNDER THE DIRECTION AND TO THE SATISFACTION OF PET FOOD EXPRESS AND THE LANDLORD.

ALL MATERIALS SHALL BE NEW AND AS SPECIFIED AND FREE FROM DEFECTS, OR IF NOT SPECIFIED, THE BEST OF THEIR RESPECTIVE KINDS AND SHALL CONFORM TO ALL STANDARDS OR REQUIREMENTS GOVERNING SAME AND SHALL BE APPROVED BY PET FOOD EXPRESS AND/OR THE ARCHITECT/DESIGNER BEFORE BEING INSTALLED.

PET FOOD EXPRESS RESERVES THE RIGHT TO REQUIRE THE GENERAL CONTRACTOR TO SUBMIT SAMPLES OF ANY AND ALL ARTICLES OR MATERIALS TO BE USED UNDER THESE SPECIFICATIONS.

ALL DIMENSIONAL LUMBER, PLYWOOD, PARTICLE BOARD, ETC. USED IN BUILDING CONSTRUCTION SHALL AT A MINIMUM, PRESSURE TREATED UL CERTIFIED NON-COMBUSTIBLE.

SOME WALLS RECEIVE EITHER CONCEALED OR NO-CONCEALED BLOCKING BY THE CARPENTER CONTRACTOR FOR MISCELLANEOUS FIXTURES, SHELVING, ELECTRICAL, PLUMBING, ETC. VERIFY LOCATIONS AND SPECIFIC DIMENSIONS OF BLOCKING WITH THE GENERAL CONTRACTOR AND THE PET FOOD EXPRESS PROJECT MANAGER.

COORDINATE WITH THE LANDLORD BEFORE DEMOLITION AND DEBRIS REMOVAL PRIOR TO COMMENCEMENT OF ANY WORK. SEE DEMOLITION PLANS FOR MORE INFORMATION. GENERAL CONTRACTOR TO ADHERE TO MATERIAL RECYCLING PROGRAMS AS REQUIRED BY GOVERNING JURISDICTIONS.

GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL TAKE CARE TO "GANG" TOGETHER WALL SWITCHES, THERMOSTATS, AND OTHER NECESSARY ELEMENTS TO MAXIMIZE WALL AREA FOR SIGNAGE AND MERCHANDISE PRESENTATION.

FIRE SPRINKLER PLAN TO BE REVIEWED AND APPROVED BY OWNER PRIOR TO INSTALLATION.

**SPECIAL NOTE:** ALL SURFACES TO RECEIVE PAINT ARE NOTED ON THE DRAWINGS. OWNER WILL DESIGNATE COLOR LOCATIONS DURING CONSTRUCTION. PLEASE REFER TO DRAWINGS TO DETERMINE IF AN OWNER SUPPLIED AND INSTALLED MURAL IS INCLUDED IN THE PROJECT. OWNER WILL ALSO DESIGNATE PERIMETER SIGNAGE PLACEMENT DURING CONSTRUCTION. FINAL CLEANING TO BE DONE BY GC. PRIOR TO MERCHANDISING.

SEE 1/A7.2 FOR ADDITIONAL RESPONSIBILITY SCHEDULE FOR PET WASH.

RESPONSIBILITY MATRIX

REMARKS	FURNISHED BY LANDLORD	INSTALLED BY LANDLORD	FURNISHED BY PFE	INSTALLED BY PFE	FURNISHED BY GC	INSTALLED BY GC	EXISTING	NOT REQUIRED	REMARKS	REMARKS	FURNISHED BY LANDLORD	INSTALLED BY LANDLORD	FURNISHED BY PFE	INSTALLED BY PFE	FURNISHED BY GC	INSTALLED BY GC	EXISTING	NOT REQUIRED	REMARKS	FURNISHED BY LANDLORD	INSTALLED BY LANDLORD	FURNISHED BY PFE	INSTALLED BY PFE	FURNISHED BY GC	INSTALLED BY GC	EXISTING	NOT REQUIRED	REMARKS					
DIVISION 015000 - MECHANICAL AND PLUMBING											DIVISION 08000 - DOORS AND WINDOWS										DIVISION 01000 - GENERAL CONDITIONS												
HVAC HEATING AND COOLING UNITS	X	X									RATED METAL DOORS / METAL FRAMES					X	X				PERMITS, FEES AND INSURANCE			X	X					BLDG PERMIT REIMBURSEMENT			
HVAC DUCTWORK AND DIFFUSERS					X	X					WOOD DOORS AND METAL FRAMES				X	X					SUPERVISION / CONSTRUCTION OFFICE				X								
HVAC TESTING AND BALANCING					X	X					ACCESS DOOR AND PANELS				X	X					PROFESSIONAL CLEANING				X								
FIRE SPRINKLERS	X	X					X				ROLL-UP DOORS	X	X								TEMPORARY POWER / WATER				X								
FIRE SPRINKLER MAIN							X				BI-FOLD DOORS			X							CERTIFICATE OF OCCUPANCY				X								
HAIR TRAP					X	X					WAREHOUSE SWING DOORS (ELIASON)				X	X					DUMPSTER / TRASH REMOVAL				X	X							
TOILET FIXTURES					X	X					AUTOMATIC SLIDING DOORS (STANLEY)	X	X								LOOSE DOG CONNECTIONS BY GC.				X								
HOT WATER HEATER(S)					X	X					DOOR HARDWARE				X	X					RECEIVING AND STORING PFE ITEMS				X								
PETWASH WATER					X	X					CORES AND CORE KEY			X	X						SEE NOTE 3 ON 7/A8.0												
MOP SINK					X	X					STOREFRONT FRAMING	X	X									DIVISION 02000 - SITEWORK											
FLOOR SINKS					X	X					STOREFRONT GLAZING	X	X									SELECTIVE DEMOLITION											
SMOKE DETECTORS					X	X					WINDOW FILM				X	X						SHORING AND BRACING				X	X						
FLOOR DRAIN					X	X					BLACKOUT FILM				X	X						TEMPORARY BARRICADES				X	X			PER CENTER STANDARDS			
SANITARY SEWER CONNECTION					X	X					METAL FRAMED SKYLIGHT	X	X									BARRICADE GRAPHICS				X	X						
PLUMBING					X	X					SPANDREL PANEL				X	X						NOV HIRING				X	X						
PETWASH PLUMBING					X	X					DIVISION 09000 - FINISHES											GRASS AREA LANDSCAPING				X	X						
PETWASH HOSES AND NOZZLES					X	X					CONCRETE POLISHING				X	X						STEEL HANDRAILS				X	X						
GAS SERVICE	X	X									RECESSED ENTRY MAT				X	X						ASPHALT TRAVING				X	X						
GAS PIPING					X	X					CASHWRAP RUBBER FLOORING				X	X						NOT USED				X	X						
WATER METER	X	X									SUSPENDED GWB CEILING / FRAMING SYSTEM				X	X										X	X						
CAT ADOPTION SINK AND FIXTURES					X	X					SUSPENDED ACT / FRAMING SYSTEM				X	X																	
PETWASH SHOWER PAN / PREFAB PET TUB					X	X					PAINTING EXTERIOR				X	X						TOUCH UP ONLY											
DRINKING FOUNTAIN					X	X					PAINTING INTERIOR				X	X							DIVISION 03000 - CONCRETE										
											REDUCER AND TRANSITION STRIPS				X	X							CAST IN PLACE CONCRETE				X	X					
											ADHESIVES AND SEALANTS				X	X							EXPANSION / CONSTRUCTION JOINTS				X	X					
											RUBBER COVE BASE				X	X							CONCRETE INFILL / PATCHING				X	X					
DIVISION 016000 - ELECTRICAL											PETWASH CERAMIC TILE				X	X							CONCRETE LEVELING COMPOUND				X	X					
ELECTRICAL SERVICE AND PANELS					X	X					CARPET FLOORING				X	X							CONCRETE CUTTING / CORE DRILLING				X	X					
ELECTRICAL DISTRIBUTION					X	X					RESILIENT / VINYL FLOORING				X	X							NOT USED										
LIGHT FIXTURES			X		X	X					EXHAUST FAN BY LL ON ROOF				X	X							NOT USED										
TOILET EXHAUST	X				X	X					CERAMIC TILE FLOORING				X	X						PET WASH ONLY											
EXIT AND EMERGENCY LIGHTING			X		X	X					RESTROOM TILE WAINSCOTING				X	X							BRICK				X	X	X		NOT USED		
LOZIER LIGHT FIXTURES			X		X	X					PLYWOOD WAINSCOTING				X	X							RECEIVING AREA				X	X					
ELECTRICAL OUTLETS					X	X					FRP WALL PANELS				X	X							CONCRETE MASONRY UNITS				X	X					
TELEPHONE PANEL (BACK BOARD)					X	X					SLIP TECH TILE TREATMENT				X	X																	
TELEPHONE OUTLETS					X	X					PFE WALL MURALS				X	X							NOT USED										
CONDUIT FOR TELEPHONE WIRES					X	X																											
MUSIC SYSTEM AND SPEAKERS			X	X																													
POS EQUIPMENT			X	X																													
TIMECLOCKS					X	X					IF REQUIRED ON PLANS																						
TRANSFORMERS					X	X					IF REQUIRED ON PLANS				X		X																
FREEZER POWER AND LOW VOLTAGE					X	X					SEE MECH DWGS				X	X																	
EXTERIOR LIGHTING	X	X									"COMING SOON" SIGNAGE			X	X																		
PETWASH ELECTRICAL					X	X					STOREFRONT SIGNAGE			X	X								POWER BY GC.										
SECURITY SYSTEM			X	X							ADA REQUIRED SIGNAGE				X	X																	
PETWASH ALARM PANEL											FIRE EXTINGUISHERS																						





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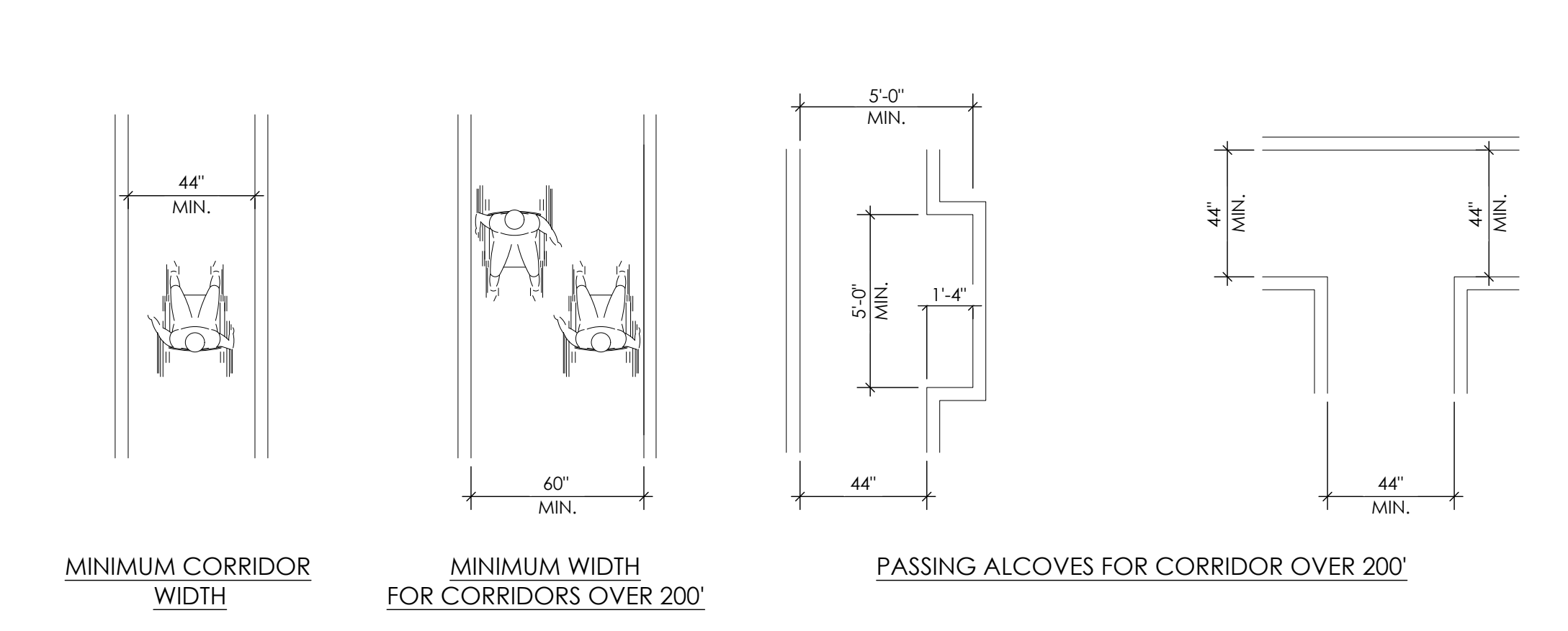
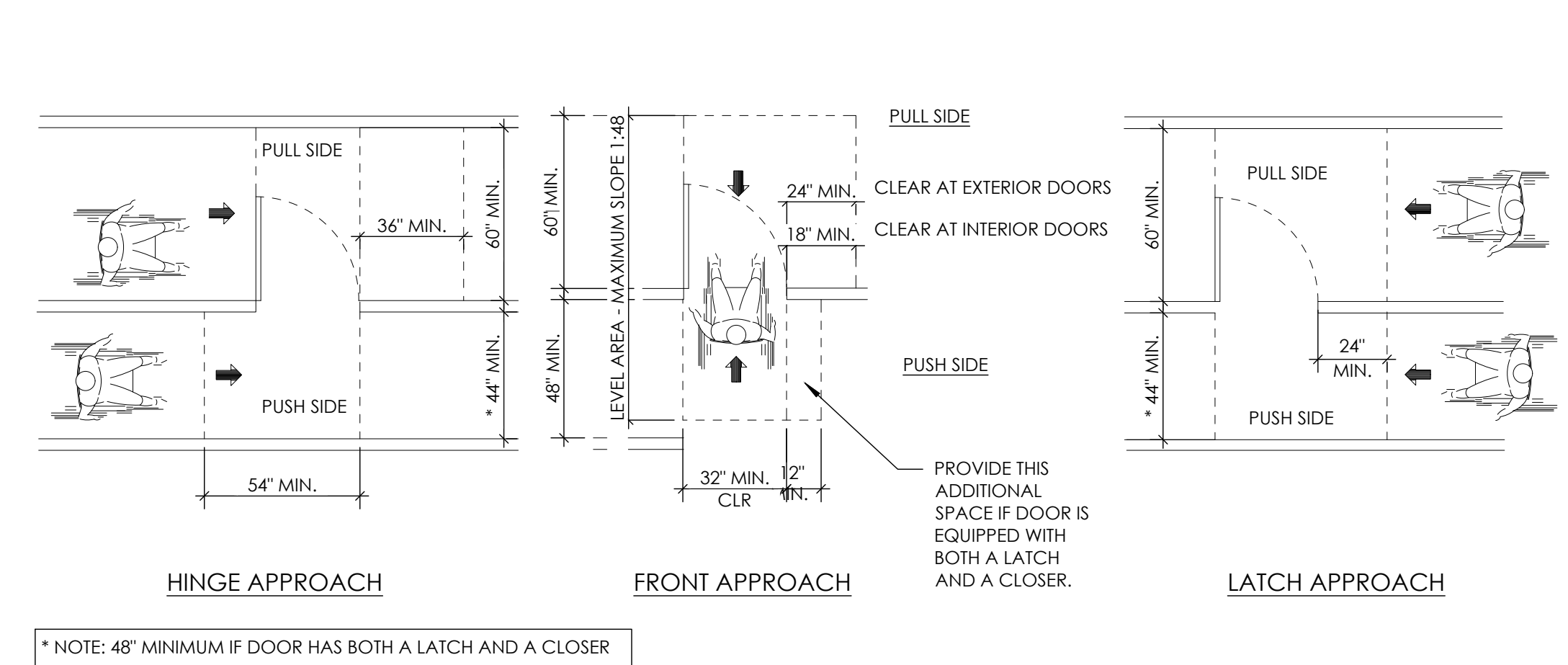
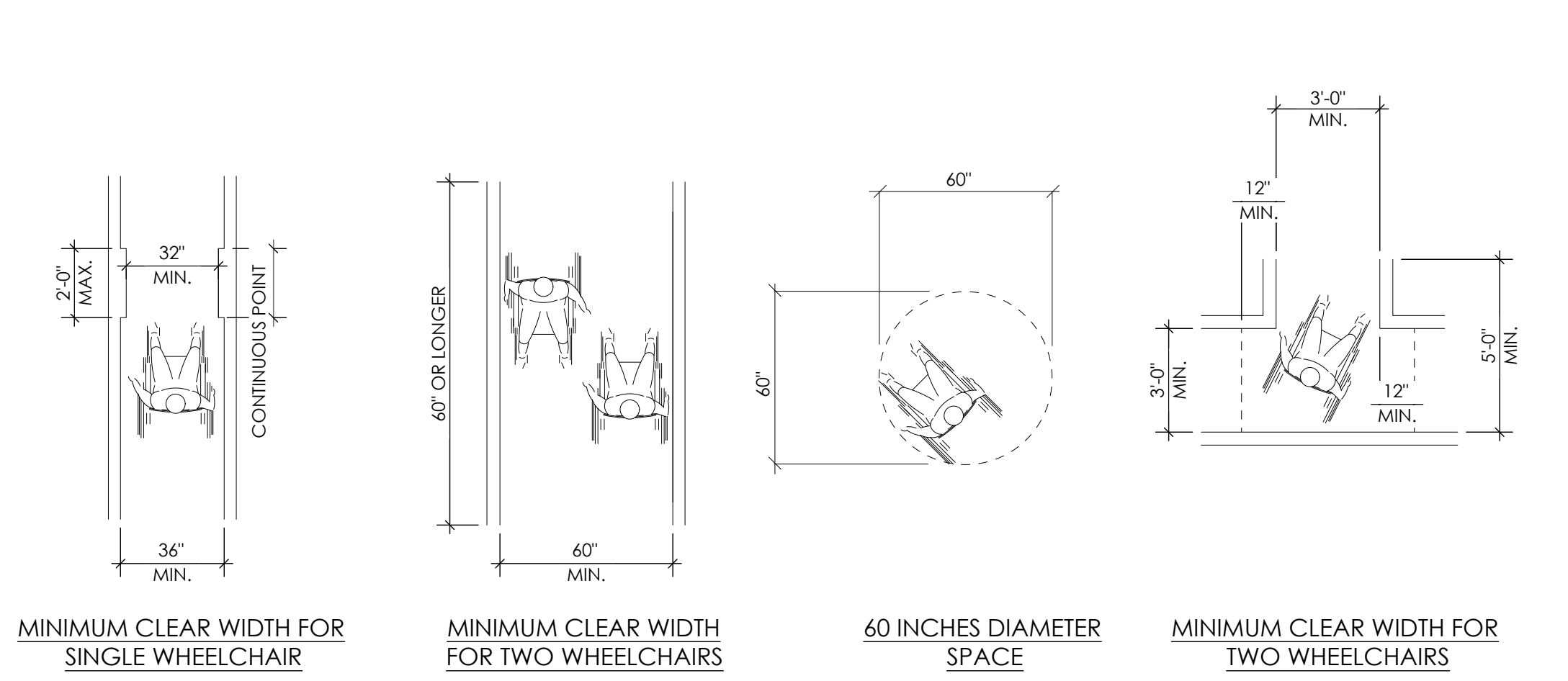
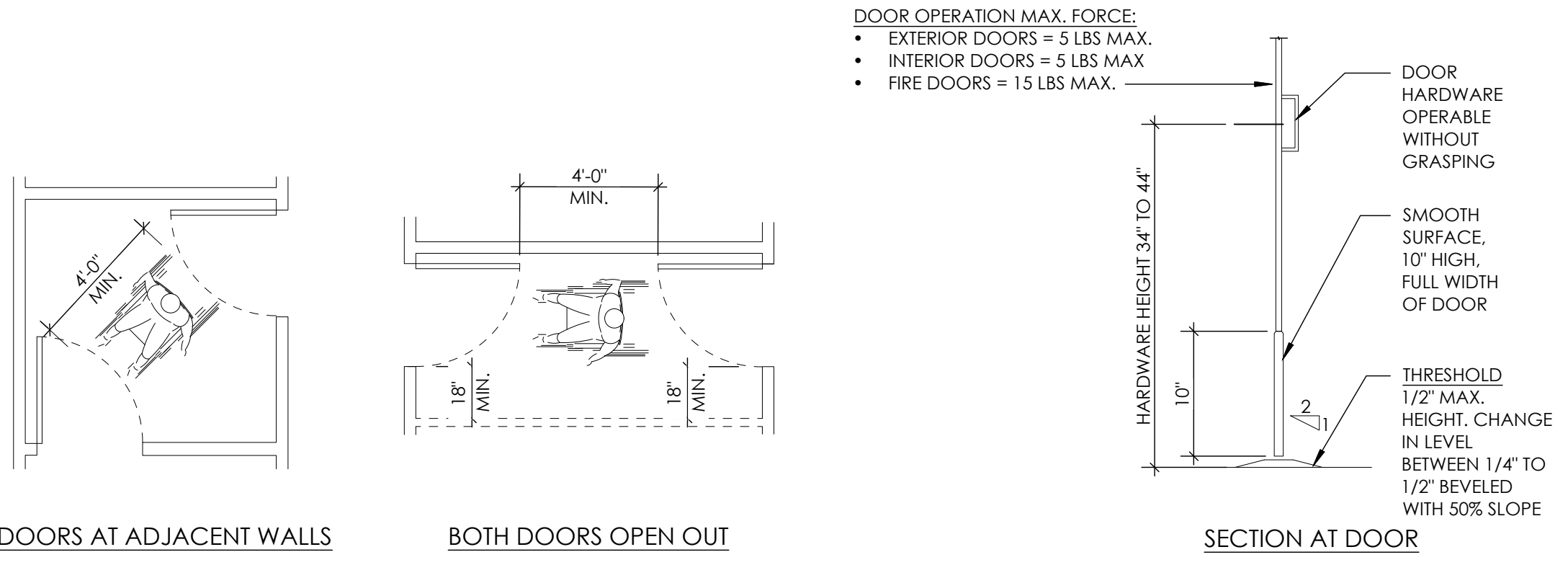
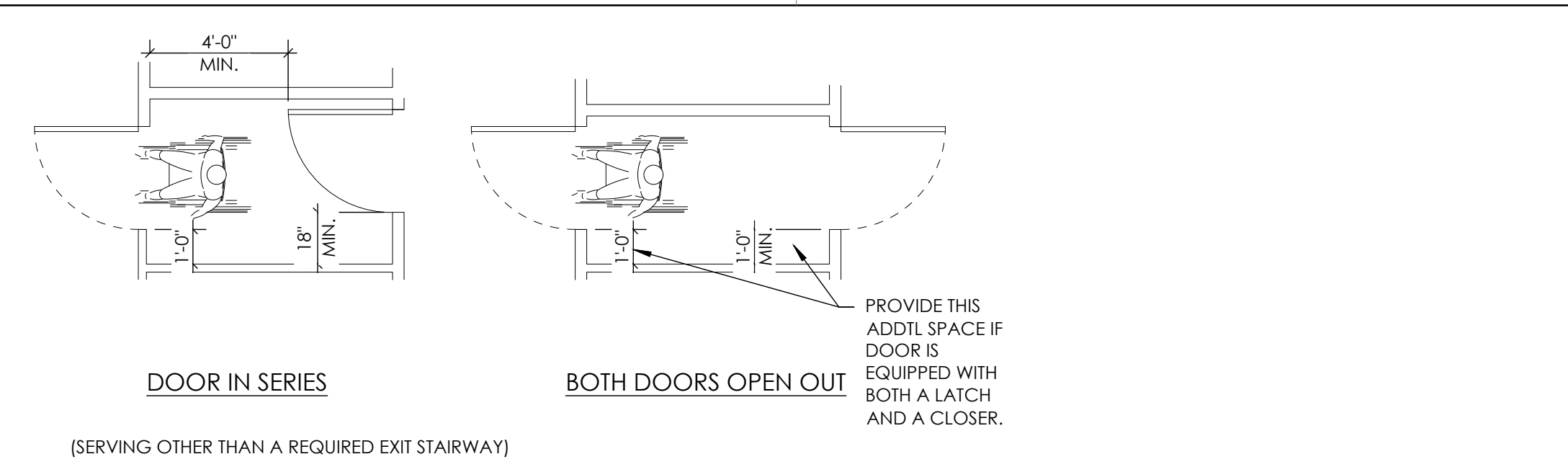


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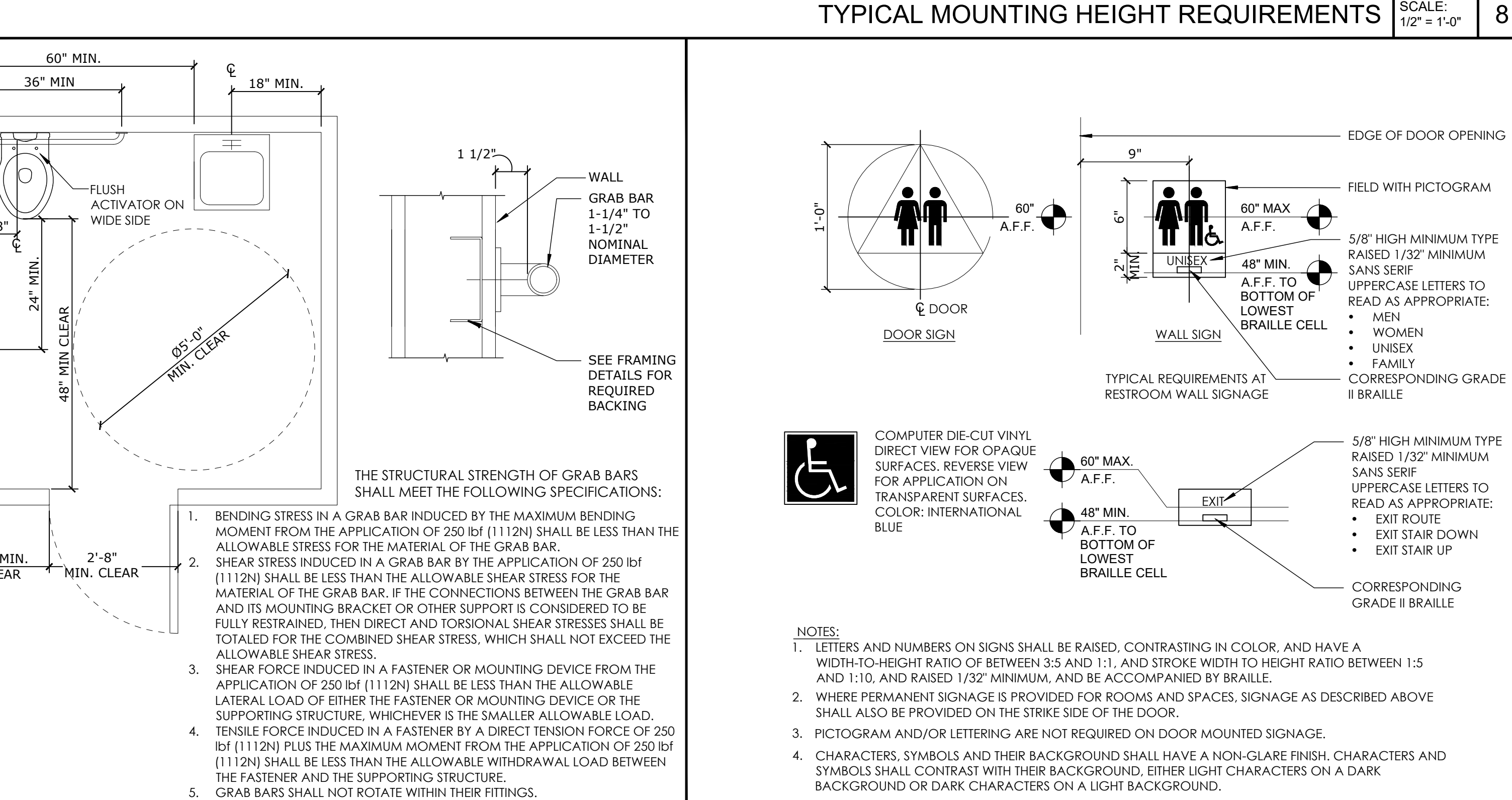
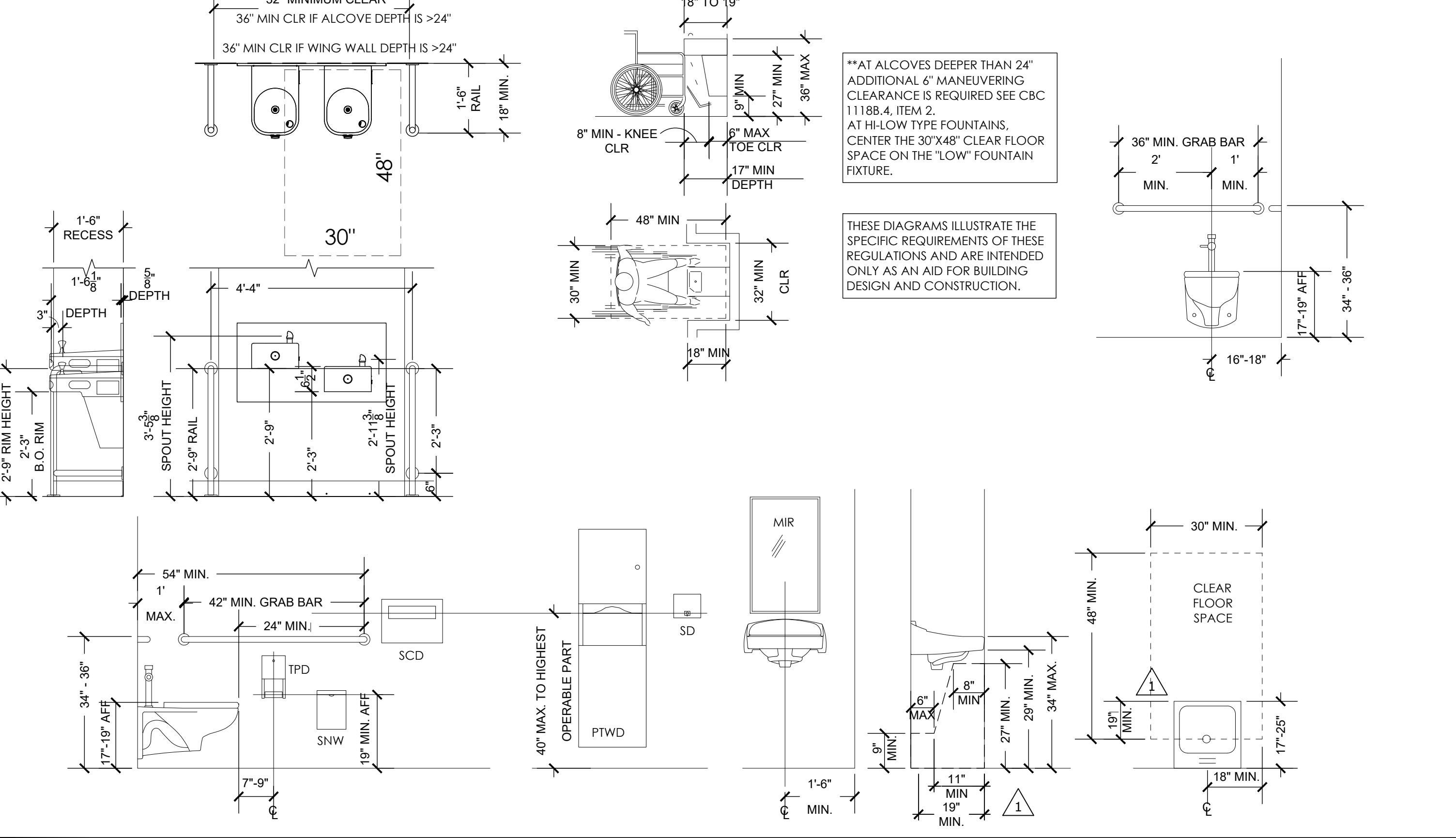
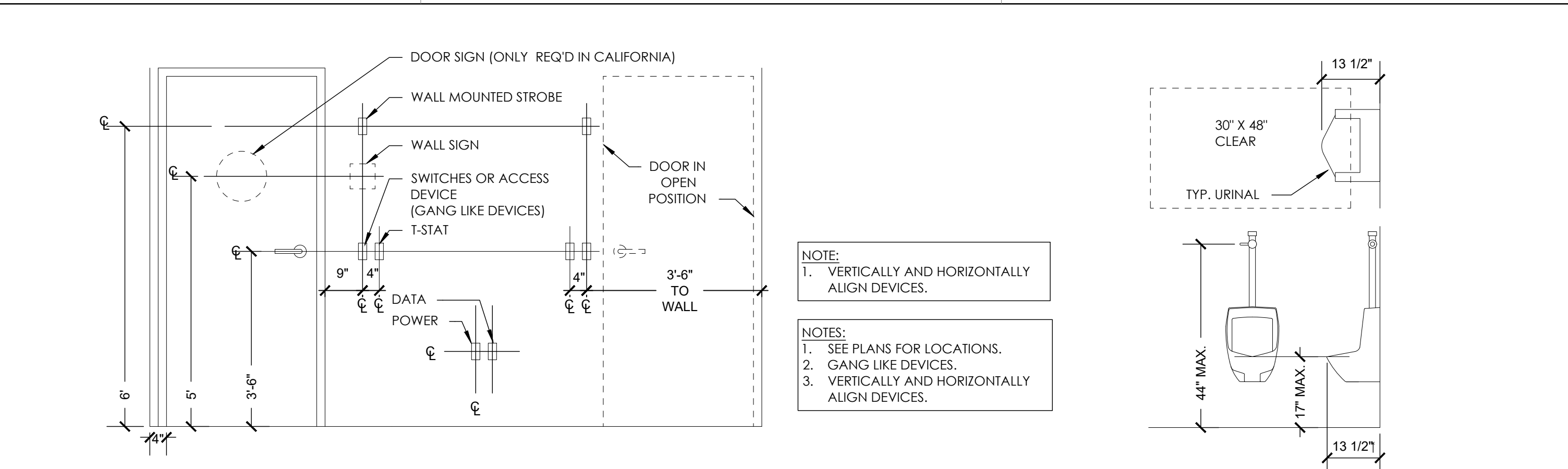
NO.	DATE	REVISION NAME
1	4.19.19	ISSUE FOR PERMIT
2	6.10.19	REVISION 1
3	9.13.19	BID SET

1 PET FOOD EXPRESS  
4710 Freepoint Blvd, Suite 12K-A  
Sacramento, CA 95822

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

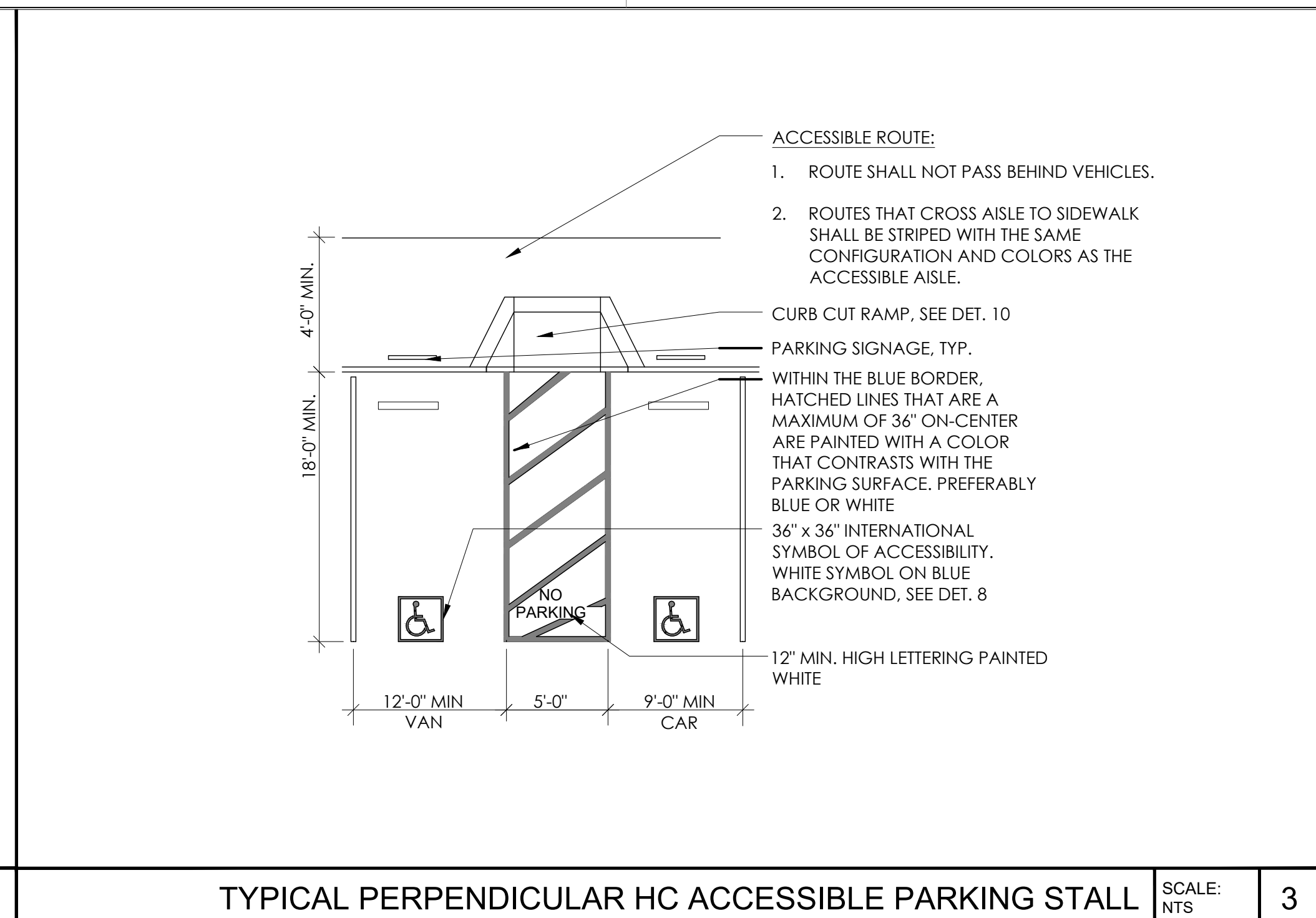
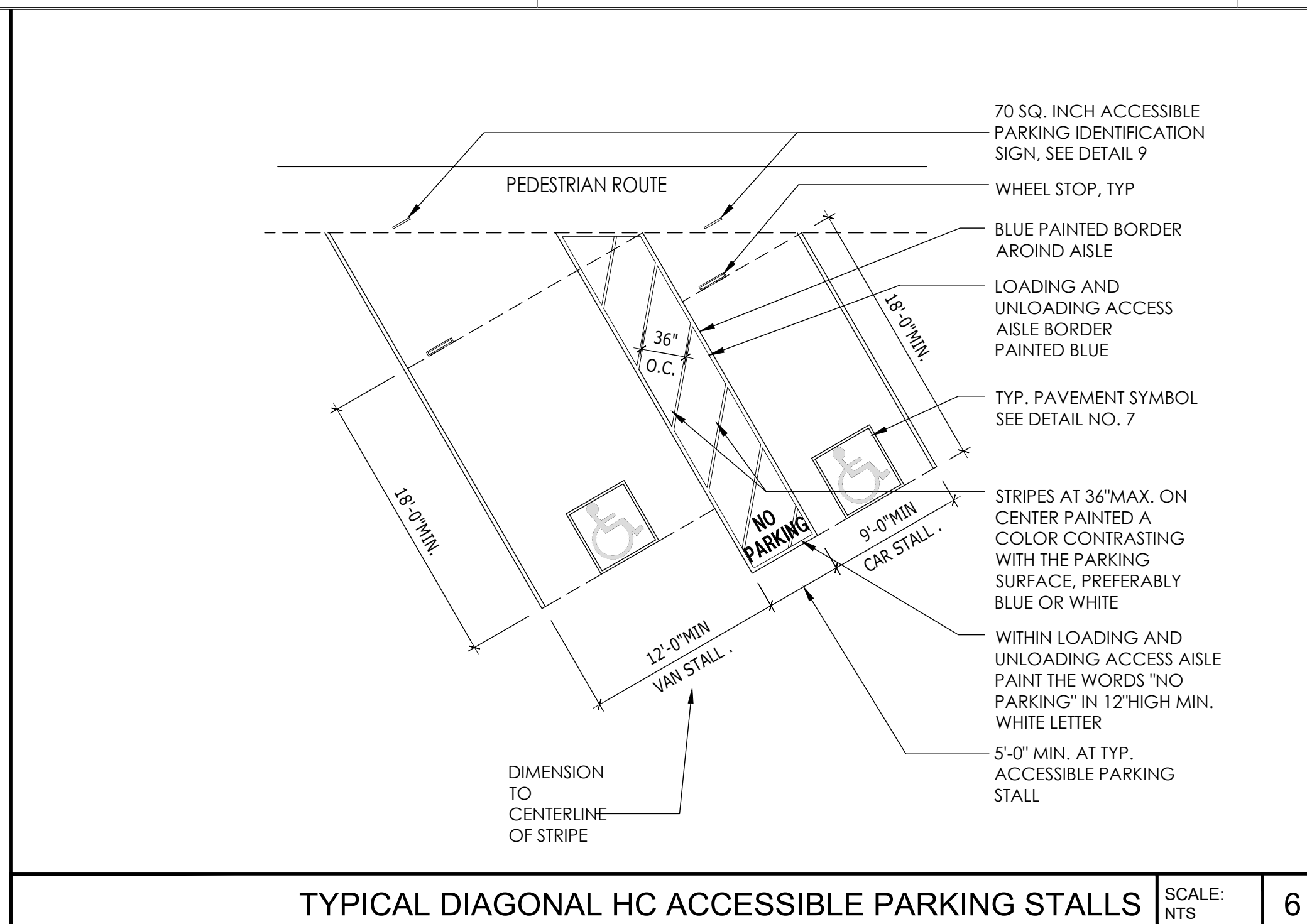
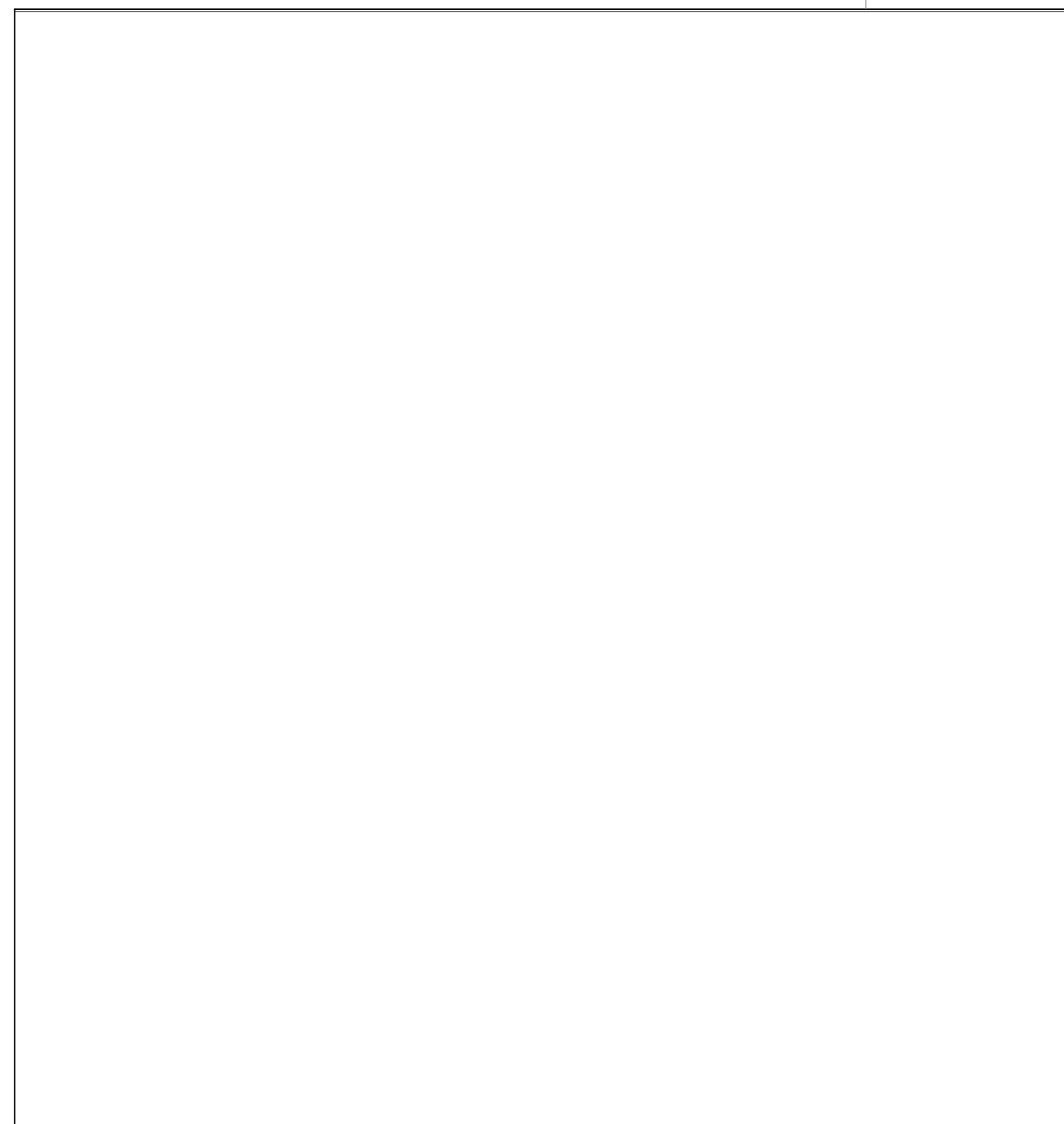


MANEUVERING CLEARANCE REQUIREMENTS SCALE: 1/4" = 1'-0" 1



TYP. TOILET RM CLEARANCE REQUIREMENTS SCALE: 1/2" = 1'-0" 10





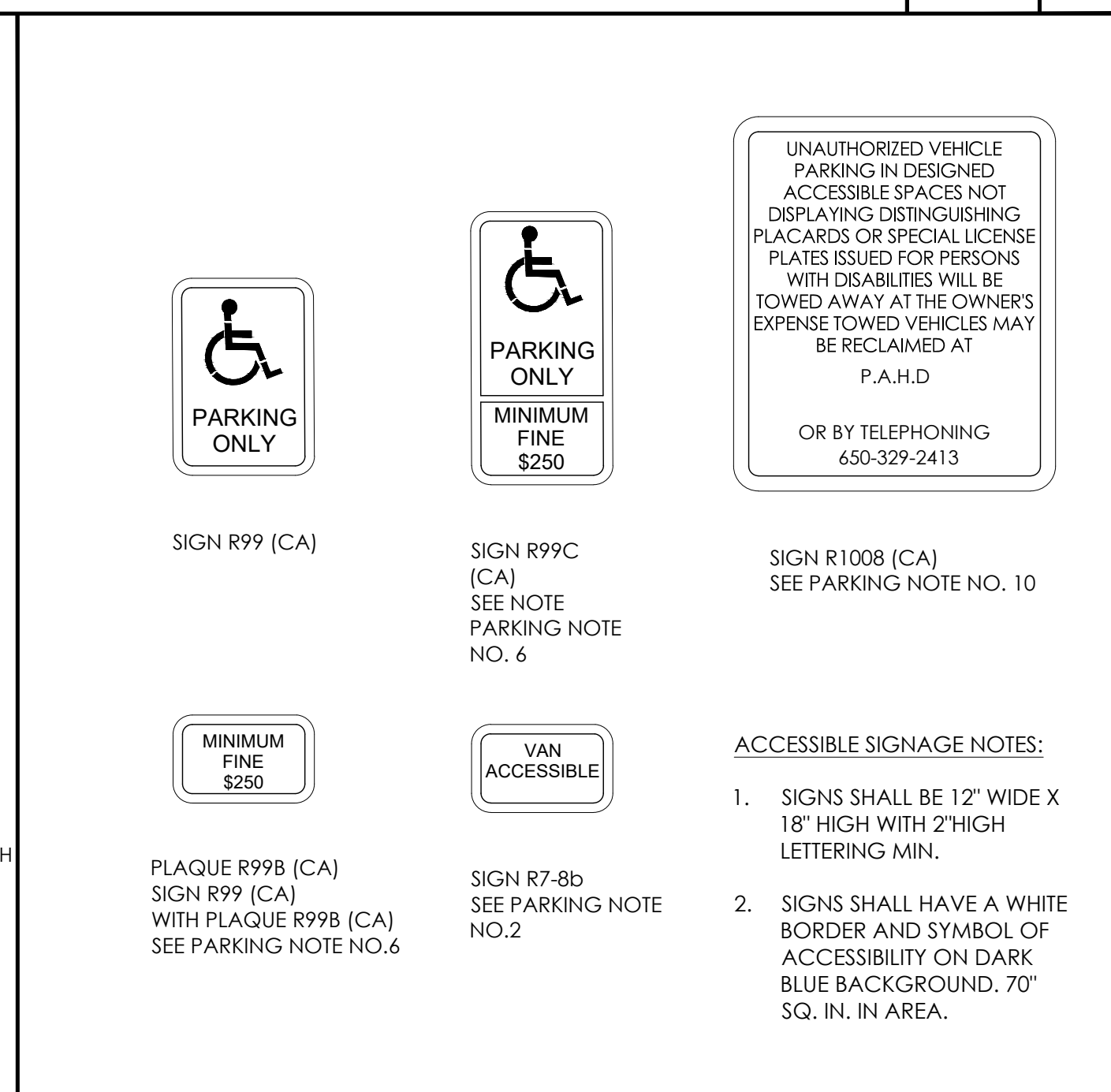
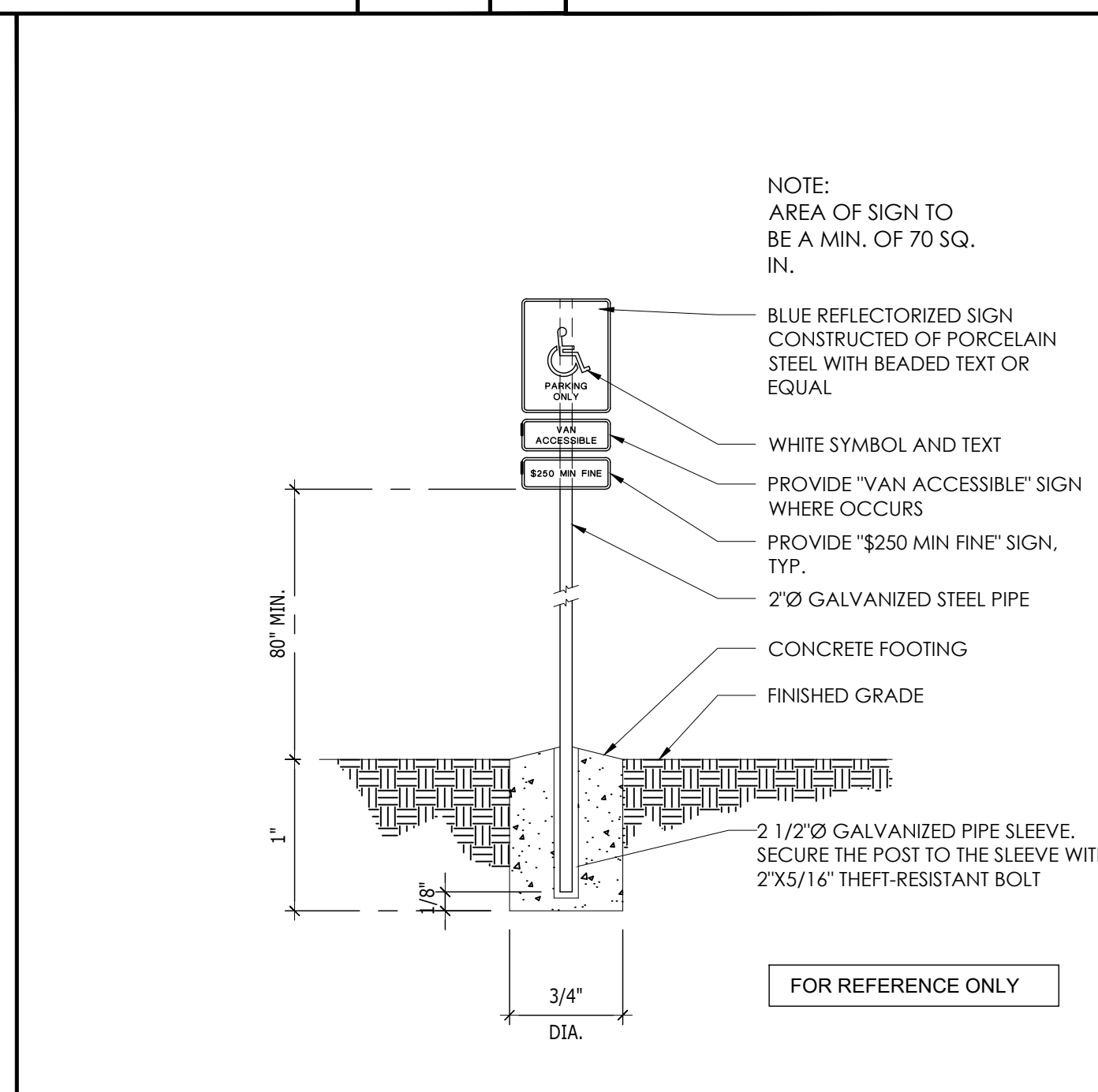
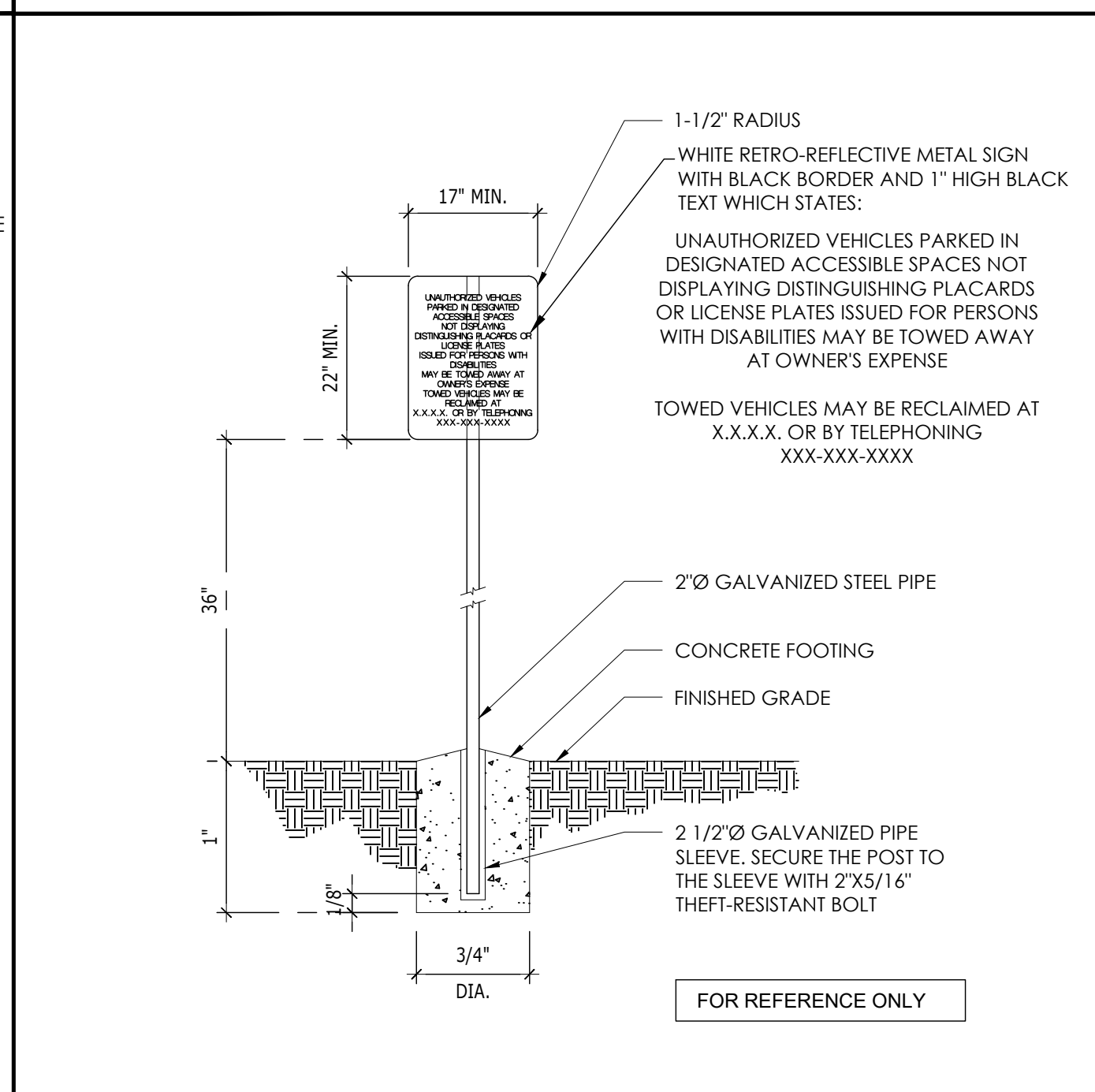
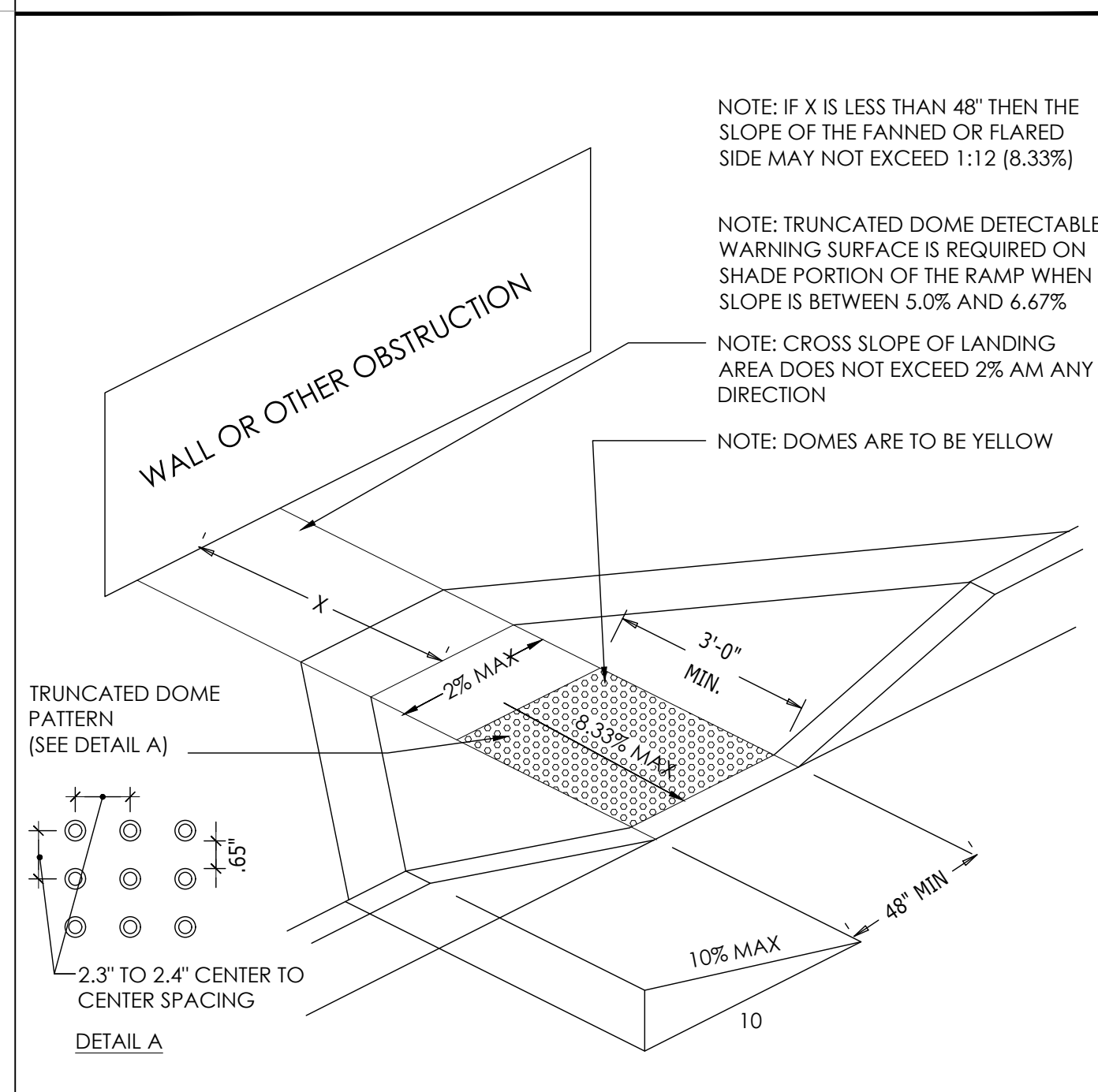
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**ARCHITECT**

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**REGISTRATION**

**CONSULTANT**

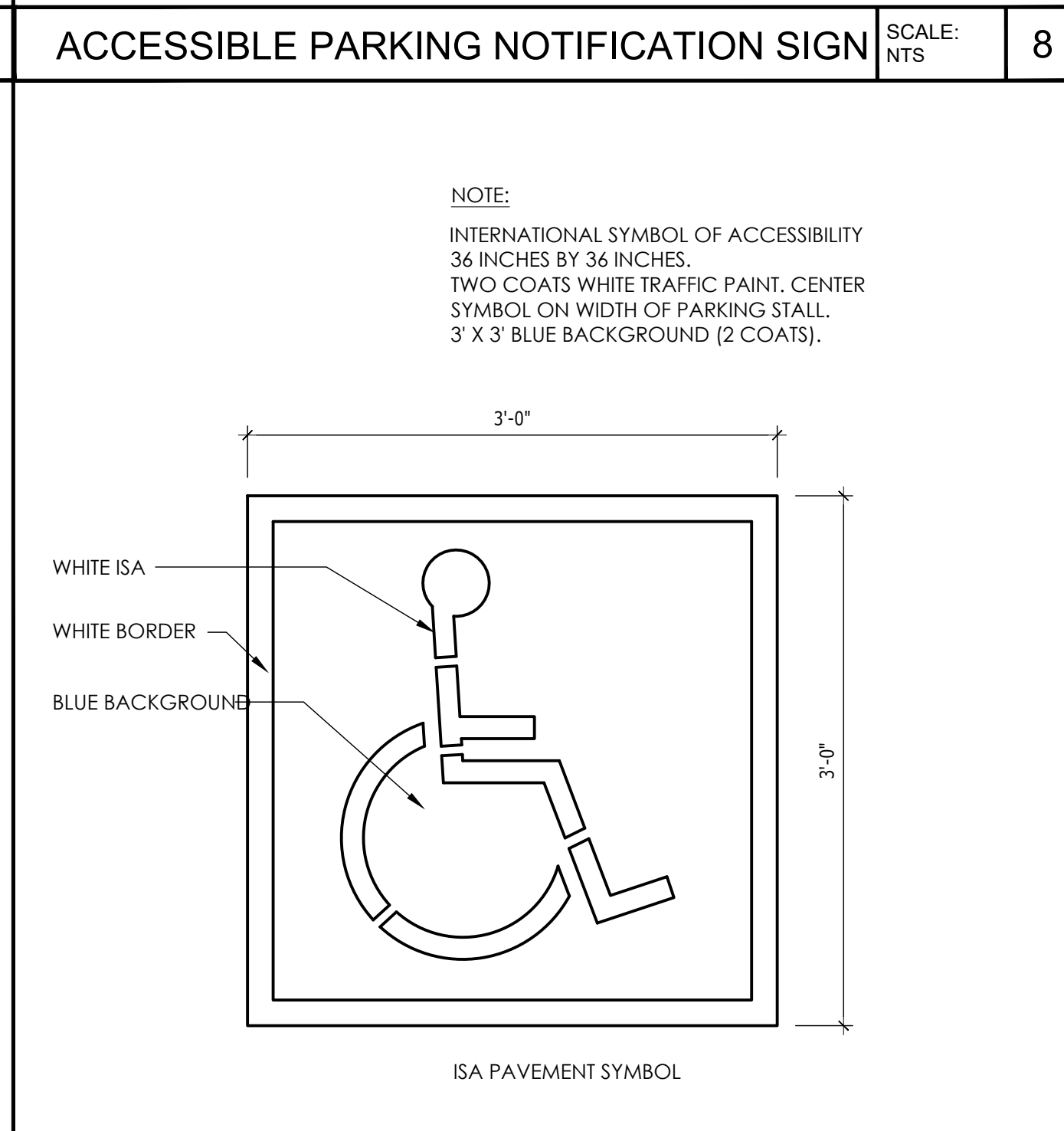
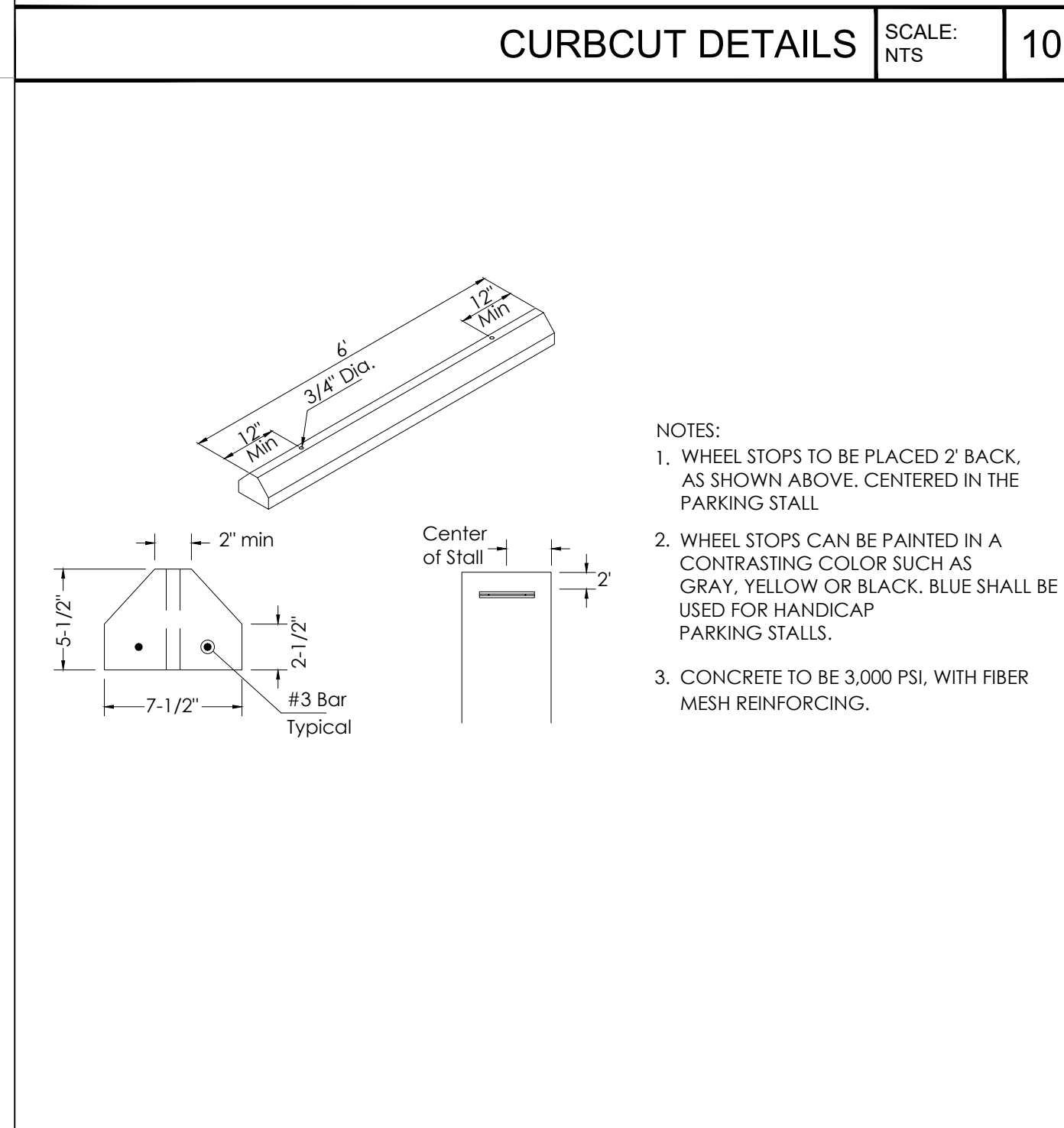


**UNAUTHORIZED CHANGES**

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TO THE EXTENT ANY SUCH CHANGES ARE MADE WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT, CLIENT RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

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**TABLE 11B-208.2**

TOTAL NUMBER OF PARKING SPACES IN LOT OR GARAGE	MINIMUM REQUIRED NUMBER OF DISABLED SPACES
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2% OF TOTAL
1001 AND OVER	20 PLUS 1 FOR EACH 100 OF FRACTION THEREOF OVER 1001

- ACCESSIBLE PARKING SPACES SERVING A PARTICULAR BUILDING SHALL BE LOCATED AT THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE. IN PARKING FACILITIES THAT DO NOT SERVED A PARTICULAR BUILDING, ACCESSIBLE PARKING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL AN PEDESTRIAN ENTRANCE OF THE FACILITIES.
- ONE IN EVERY EIGHT ACCESSIBLE OFF-STREET PARKING STALLS, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESSIBLE AISLE OF 8'-0" MINIMUM WIDTH AND SHALL BE SIGNED VAN ACCESSIBLE. THE R7-8b SIGN SHALL BE MOUNTED BELOW THE R99B (CA) PLAQUE OR THE R99C (CA) SIGN.
- IN EACH PARKING STALL, A CURB OR BUMPER SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF VEHICLES OVER THE REQUIRED WIDTH OF WALKWAYS. PARKING STALLS SHALL BE SO LOCATED THAT PERSONS WITH DISABILITIES ARE NOT COMPELLED TO WHEEL OR WALK BEHIND PARKED CARS OTHER THAN THEIR OWN.
- SURFACE SLOPE OF ACCESSIBLE OFF-STREET PARKING STALLS SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 2 PERCENT IN ANY DIRECTION.
- CBC TABLE 11B-208.2 SHALL BE USED TO DETERMINE THE REQUIRED NUMBER OF ACCESSIBLE PARKING IN ANY PARKING LOT OR GARAGE.
- WHERE PLAQUE R99B (CA), SIGN R99C (CA) OF SIGN R7-8b ARE INSTALLED THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 7'-0" ABOVE THE SURROUNDING SURFACE.
- CURB AND SIDEWALK RAMP SHALL CONFORM TO THE DETAILS SHOWN ON REVISED STANDARD RSP A88A.
- BLUE PAINT, INSTEAD OF WHITE MAY BE USED FOR MARKING ACCESSIBILITY AISLE IN AREAS WHERE SNOW MAY CAUSE WHITE MARKINGS TO NOT BE VISIBLE.
- THE WORDS "NO PARKING", SHALL BE PAINTED IN WHITE LETTERS NO LESS THAT 1'-0" HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS. SE REVISED STANDARD RSP A908 FOR DETAIL OF THE "NO PARKING" PAVEMENT MARKING.
- A R1008 (CA) SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH THE SIGN SHALL INCLUDE THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED TELEPHONE NUMBER OF THE LOCAL TRAFFIC LAW ENFORCEMENT AGENCY.
- WHERE A SINGLE (NON-VAN) ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE IS GOING FORWARD INTO THE PARKING SPACE.
- WHERE A VAN ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE 5'-0" WIDE MINIMUM, AND SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE.
- ACCESSIBLE PARKING ONLY SIGN SHALL BE SIGN R99C (CA) OR SIGN R99 (CA) WITH PLAQUE R99B (CA).

**ISSUE / REVISION**

NO.	DATE	REVISION NAME
	4.19.19	ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

**PROJECT LOCATION**

1 PET FOOD EXPRESS  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

**DRAWING TITLE**

ACCESSIBILITY STANDARDS

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

**A0.4**

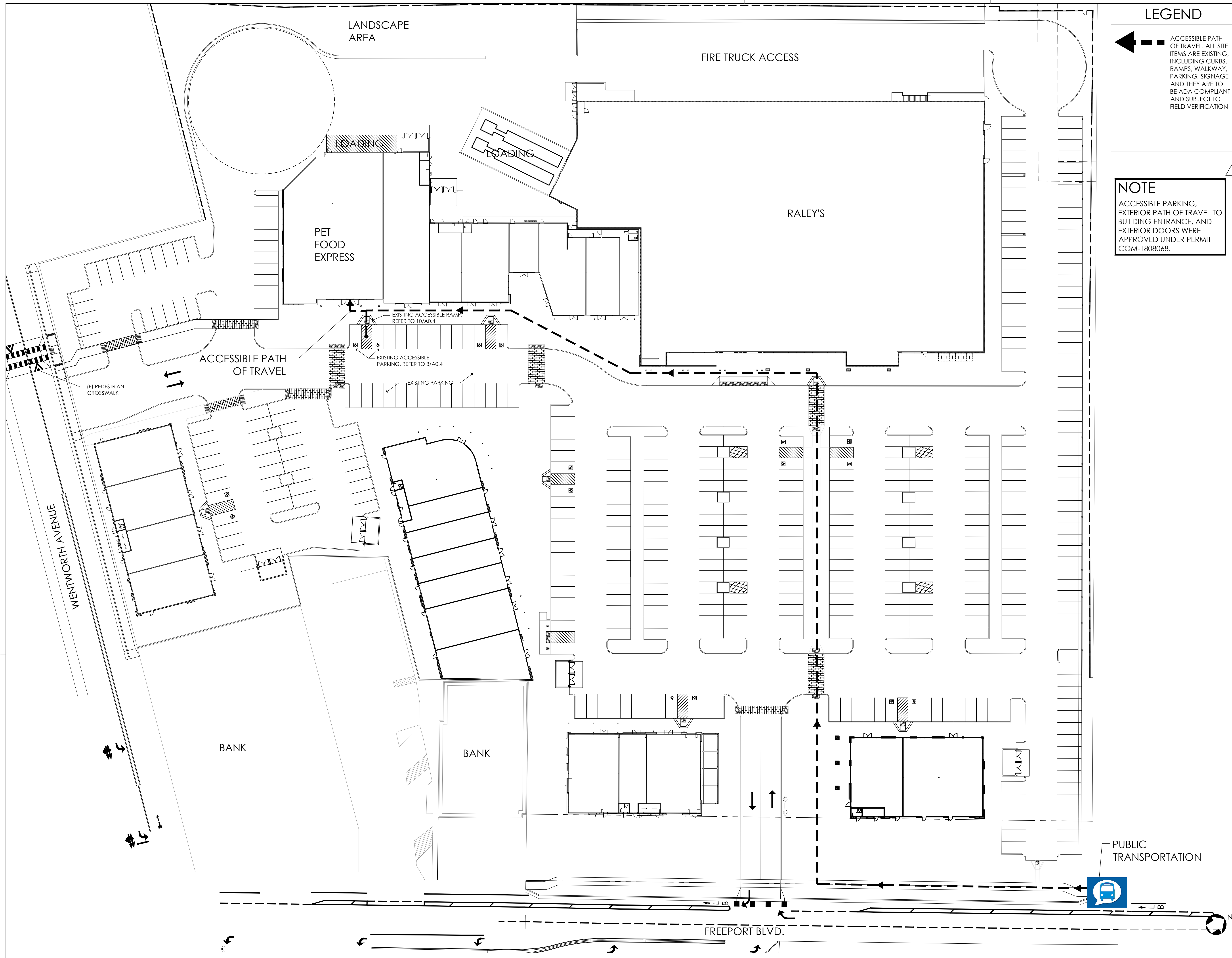
WHEEL STOP / REINFORCED CONCRETE SCALE: NTS 9

ACCESSIBLE PARKING PAVEMENT SYMBOL SCALE: NTS 7

PARKING SPACES REQUIREMENTS SCALE: NTS 4

ACCESSIBLE PARKING STALLS NOTED SCALE: NTS 1





**LEGEND**

← - - - ACCESSIBLE PATH OF TRAVEL. ALL SITE ITEMS ARE EXISTING, INCLUDING CURBS, RAMPS, WALKWAY, PARKING, SIGNAGE AND THEY ARE TO BE ADA COMPLIANT AND SUBJECT TO FIELD VERIFICATION

**NOTE**

ACCESSIBLE PARKING, EXTERIOR PATH OF TRAVEL TO BUILDING ENTRANCE, AND EXTERIOR DOORS WERE APPROVED UNDER PERMIT COM-1808068.

**CLIENT**



**ARCHITECT**



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**CONSULTANT**

**UNAUTHORIZED CHANGES**

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**ISSUE / REVISION**

NO.	DATE	REVISION NAME
4.19.19		ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

**PROJECT LOCATION**

PET FOOD EXPRESS  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

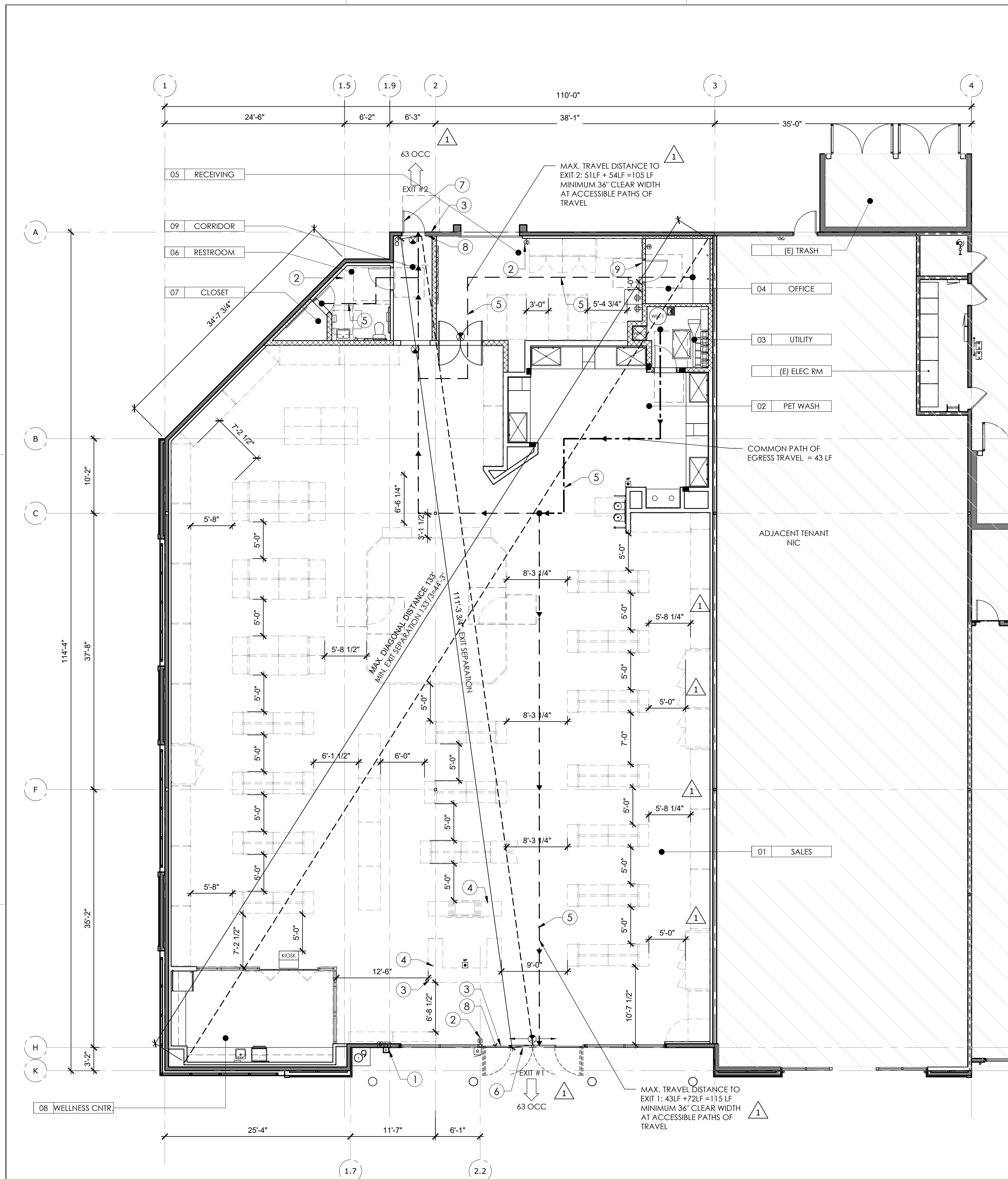
**DRAWING TITLE**

SITE PLAN

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

**A0.5**





LEGEND	
SYMBOL	DESCRIPTION
---	EXIT ACCESS PATH, (ACCESSIBLE)
---	COMMON PATH OF TRAVEL, (ACCESSIBLE)
EXIT #X	EXIT LOAD
⊗	EXIT SIGN
□	CLEAR SPACE AT DOOR
▨	NOT IN PROJECT SCOPE

KEY NOTES	
1	LOCATION OF KNOX BOX
2	FIRE EXTINGUISHERS W/ UL LABEL & RATING OF NOT LESS THAN 2A10BC WITHIN 75 FT TRAVEL DISTANCE TO ALL PORTIONS OF SPACE
3	INTERNATIONAL SYMBOL OF ACCESSIBILITY CONFORMING TO 11B-703.7.2.1 CBC 2016 AT EXTERIOR DOOR. SEE ELEVATIONS ON A4.0 AND DETAIL 7/A0.3.
4	ACCESSIBLE COUNTER. REFER TO A7.5
5	INTERIOR BARRIER-FREE PATH OF TRAVEL TO EXITS
6	(E) AUTOMATIC SLIDING DOOR BY LL
7	(E) REAR DOOR BY LL
8	TACTILE EGRESS SIGNAGE, SEE 7/A0.3
9	TACTILE ACCESSIBILITY SIGNAGE, SEE 7/A0.3

MAX. COMMON PATH OF EGRESS TRAVEL - 75FT  
 MAX. EXIT ACCESS TRAVEL DISTANCE - 250FT

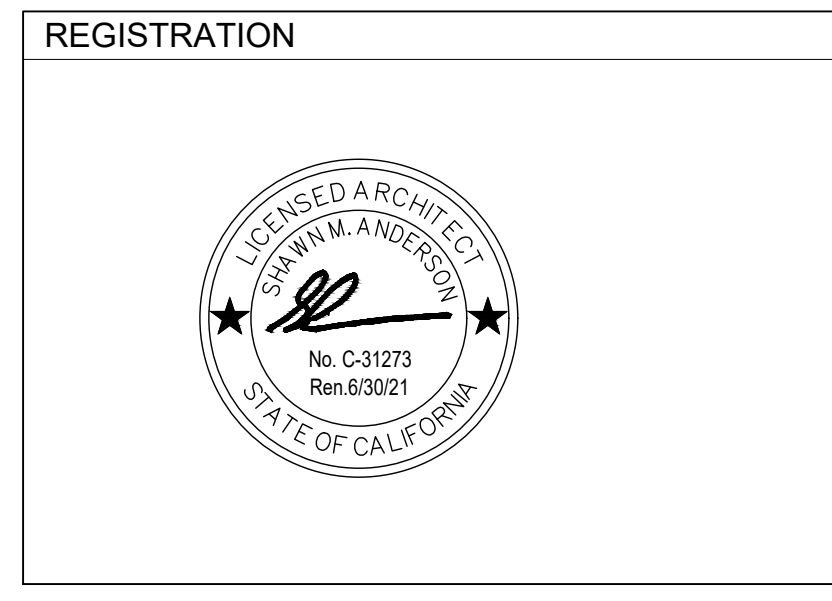
BUILDING INFORMATION			
OCCUPANCY	M	CONSTRUCTION TYPE	VB SPRINKLERED
TOTAL BUILDING AREA	8,005 SQ/FT GROSS		
OCCUPANT LOAD CALCULATIONS			
LEVEL / ROOM TYPE	AREA*	LOAD FACTOR	OCCUPANCY
<b>1ST FLOOR</b>			
SALES	7,242 S.F.	60	121
OFFICE	96 S.F.	100	1
RECEIVING	441 S.F.	300	2
UTILITY	87 S.F.	300	1
ELECTRICAL	36 S.F.	300	1
TOTAL OCCUPANCY			126

EXIT WIDTH CALCULATIONS				
EXIT #	NUMBER OF OCCUPANTS	WIDTH FACTOR	REQUIRED WIDTH	PROVIDED WIDTH
EXIT 1	63	0.2	12.60"	72"
EXIT 2	63	0.2	12.60"	36"

CONSTRUCTION TYPE  
 TYPE VB-SPRINKLERED-GROUP M



**ARCHITECT**  
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 360 22nd Street, Suite 800  
 Oakland, CA 94612  
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	9.13.19	BID SET

**PROJECT LOCATION**  
 1 PET FOOD EXPRESS  
 4710 Freepoint Blvd, Suite 12K-A  
 Sacramento, CA 95822

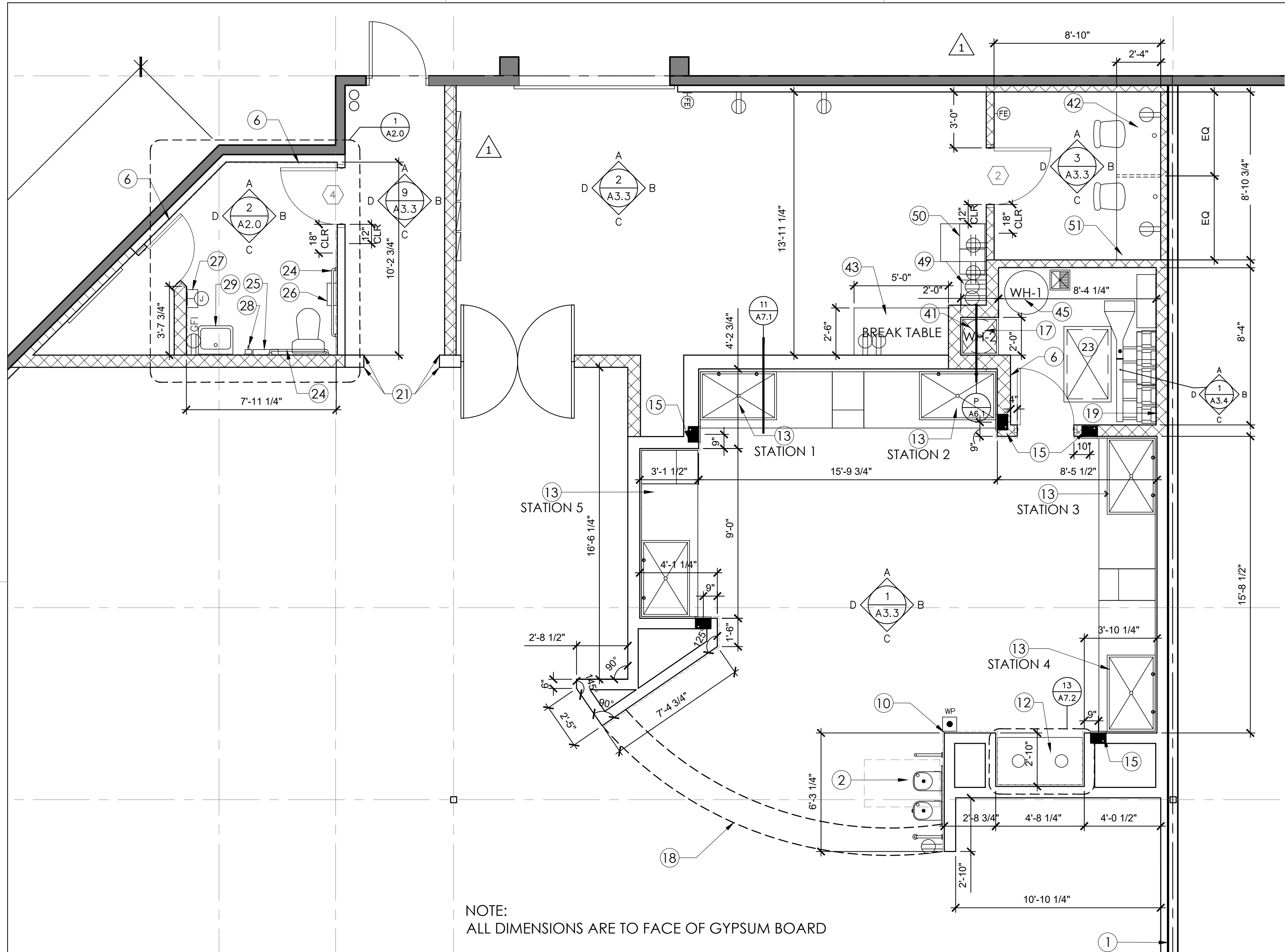
**DRAWING TITLE**  
 EGRESS PLAN  
 SCALE: AS NOTED  
 PROJECT NUMBER: 18404  
 SHEET NUMBER:

**A0.6**

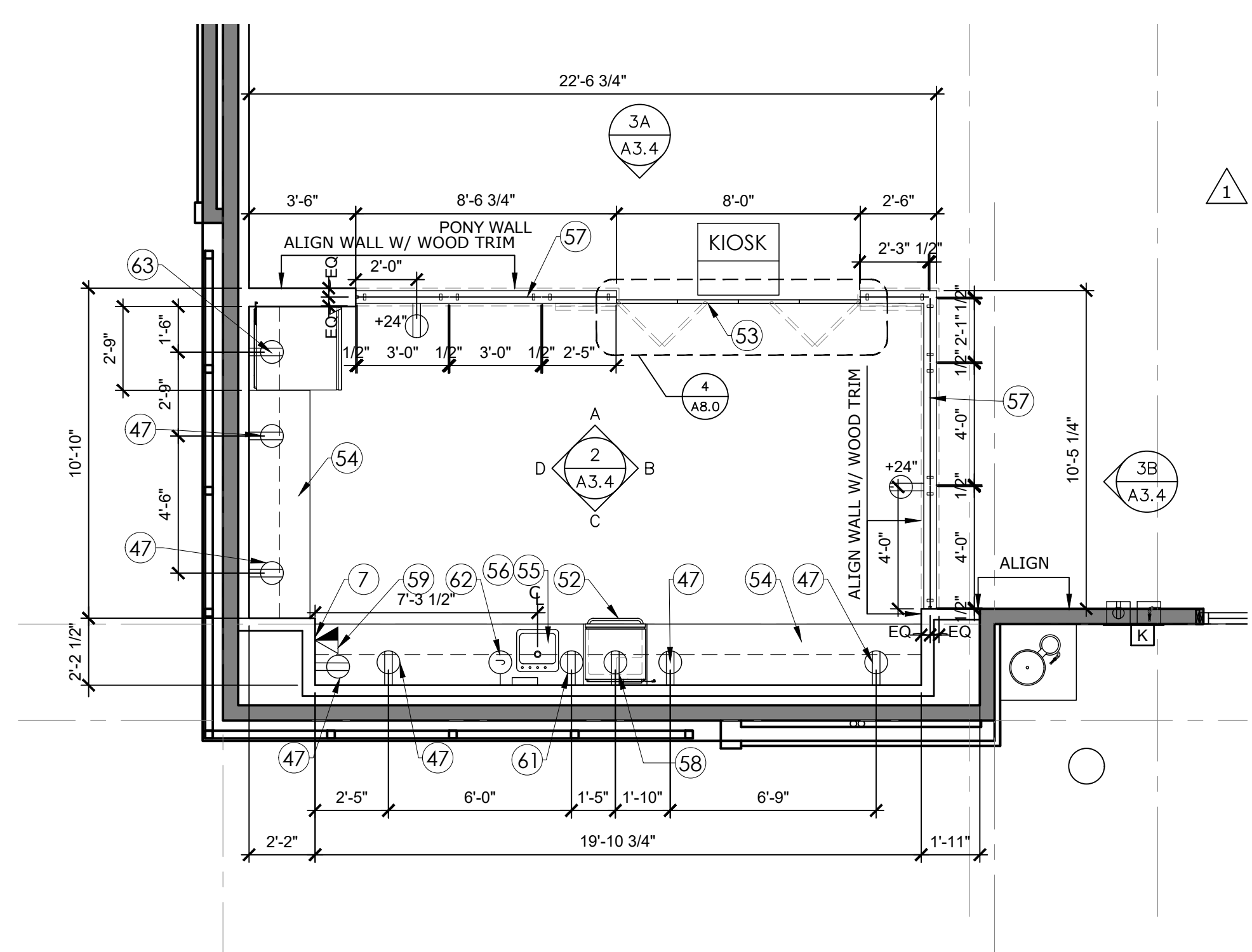








ENLARGED CONSTRUCTION PLAN SCALE: 1/4" = 1'-0" 7



ENLARGED CONSTRUCTION PLAN SCALE: 1/4" = 1'-0" 6

LEGEND	
SYMBOL	DESCRIPTION
	EXISTING WALL / PARTITION TO REMAIN
	(N) PARTITION, WALL TYPE TAG (REFER TO PARTITION DETAILS SHEET A6.1)
	LINE OF INTERIOR FINISH, SEE FINISH SCHEDULE A1.7
	(N) PARTITION IN OFFICE AND IN UTILITY ROOM WITH 1/2" PLYWOOD BACKING FULL HEIGHT AT WALLS. (REFER TO PARTITION DETAILS A6.1)
	EXISTING DOOR
	NEW DOOR NUMBER, REFER TO DOOR SCHEDULE A8.0
	FLOOR SINK
	FIRE EXTINGUISHER, LOCATE PER FIRE MARSHALL'S INSTRUCTIONS - ONE 2A 10BC FIRE EXTINGUISHER FOR EVERY 2500 SQ. FT. AND .50/75 FEET OF TRAVEL. SPEC TBD
	J-BOX
	DUPLEX OUTLET
	QUAD OUTLET
	BUZZER BUTTON
	"LOOSE DOG" POWER DOOR ACTIVATION PUSH BOTTON
	KNOX BOX
	NOT IN PROJECT SCOPE

GENERAL NOTES	
1.	ALL DIMENSIONS, ALIGN, AND FLUSH NOTES ARE TO FACE OF GYPSUM BOARD UNLESS OTHERWISE NOTED
2.	REFER TO A1.7 FOR FINISH SCHEDULES.
3.	REFER TO A8.0 FOR DOOR AND DOOR HARDWARE SCHEDULES.

KEY NOTES	
1	PROVIDE (1) LAYER 5/8" TYPE X GYP. BD ON TENANT SIDE OF EXISTING WALL, TYP.
1A	PROVIDE (1) LAYER 5/8" TYPE X GYP. BD ON TENANT SIDE OF EXISTING WALL ABOVE (E) STOREFRONT SYSTEM (IF NOT EXIST).
2	(N) HI AND LOW DRINKING FOUNTAIN WITH SIDE RAILINGS, SEE 8/A0.3
3	AREA OF DEPRESSED SLAB FOR FLOOR TILE, IN PET WASH AREA, SLAB TO BE DEPRESSED TO ALLOW TILE FLOOR TO ALIGN WITH SALES AREA AT TRANSITION; SLOPE (N) SLAB 1/4":12" TO DRAIN, SEE DRAWING A1.7
4	ELECTRICAL SUB-UP, COORDINATE LOCATION WITH FIXTURE, FOR ADDITIONAL INFO SEE SHEET A1.4 (RACKING PLAN). SEE ELECTRICAL DRAWINGS
5	NO EXPOSED ELECTRICAL CONDUIT AT STOREFRONT.
6	PROVIDE WALL MOUNTED DOOR STOP, REFER TO DOOR HARDWARE SCHEDULE A8.0
7	(N) INTERNALLY ILLUMINATED WALL SIGN ABOVE, SEE SIGNAGE DRAWINGS, FINAL LOCATION BY PFE.
8	PROVIDE POWER OUTLET FOR PET DRINKING FOUNTAIN, SEE ELECTRICAL DRAWINGS
9	AREA OF SLAB IN-FILL, MATCH (E) SLAB.
10	"LOOSE DOG" POWER DOOR ACTIVATION OVERRIDE MOUNTED AT 48" A.F.F. MAX.
11	LINE OF FLOOR TRANSITION
12	TRASH AND TOWEL ENCLOSURE, SEE 13/A7.2
13	PET WASH TUB AND COUNTERS, SEE 1/A7.1
14	NEW IT RACK, SEE ELECTRICAL DRAWINGS FOR DETAILS.
15	RECESSED CARD READER, TYP. OF 4
16	NOT USED
17	WHITE FRP AT MOP SINK WALLS TO 4'-0" A.F.F.
18	LINE OF CURVED SOFFIT ABOVE
19	1/2" PLYWOOD BACKING FULL HEIGHT FOR EQUIPMENT MOUNTING (ALL WALLS WITH EQUIPMENT)
20	PLYWOOD WAINSCOT TO 4'-0" A.F.F. AT ALL STORAGE AREA WALLS, SEE 11/A6.5
21	STAINLESS STEEL CORNER GUARDS, SEE INTERIOR ELEVATIONS AND DETAIL 13/A6.5
22	1/2" PLYWOOD BACKING FULL HEIGHT ALL OFFICES WALLS
23	CONCRETE PIT FOR LINT INTERCEPTOR.
24	GRAB BAR, SIDE AND REAR
25	TOILET SEAT COVER DISPENSER
26	TOILET PAPER DISPENSER
27	HAND DRYER, SEE ELECTRICAL DRAWINGS
28	WALL MOUNTED SOAP DISPENSER
29	MIRROR WITH FRAME
30	OUTLINE OF CASHWRAP, REFER TO A7.5 FOR MORE DETAILS.
31	EXTERIOR ELECTRICAL RECEPTACLE W/ LOCKING COVER, SEE ELECTRICAL DRAWINGS
32	(E) AUTOMATIC SLIDING DOOR, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE BY GC.
33	(E) ROLL UP DOOR
34	(E) TRASH AREA
35	(E) ROOF ACCESS LADDER
36	NEW SINK, REFER TO DETAIL 4/A6.6
37	DOG DRINKING FOUNTAIN, REFER TO DETAIL 3/A6.6
38	CONCRETE PAD FOR DOG DRINKING FOUNTAIN
39	(E) PIPE RISERS
40	(E) STOREFRONT CANOPY CONSTRUCTION
41	WATER HEATER ABOVE, PROVIDE PLYWOOD DECK.
42	OFFICE WORK COUNTER WITH BACKSPLASH, PROVIDE 3/8" CROMMET (1) PER WORK STATION, COUNTER ATTACHED TO THE WALL AND SUPPORTED BY CORBEL AT CENTER OF COUNTER, REFER TO DETAIL 7/A6.6 AND INT. ELEVATION 3/A3.3
43	BREAK TABLE WITH BACKSPLASH, COUNTER ATTACHED TO THE WALL AND SUPPORTED BY CORBEL AT END OF COUNTER, REFER TO DETAIL 7/A6.6 AND INT. ELEVATION 2/A3.3
44	(N) EXTERIOR HOSE BIB WITH LOCKABLE COVER, SEE PLUMBING DRAWINGS, SEE DETAIL 5/A6.6
45	WATER HEATER (FLOOR MOUNTED), SEE PLUMBING DRAWINGS.
46	PROVIDE POWER OUTLET TROUGH CONDUIT FROM CEILING FOR BONE FREEZER.
47	ALL DUPLEX OUTLETS ARE AT 42" AFF UNLESS NOTED OTHERWISE, INSTALL HORIZONTALLY AT COUNTER AREA.
48	EXISTING STRUCTURAL COLUMN
49	LOCATION OF REFRIGERATOR AND MICROWAVE, SEE INTERIOR ELEVATION 2D/A3.3.
50	LOCATION OF LOCKERS, SECURE LOCKERS TO WALL, SEE INTERIOR ELEVATION 2D/A3.3.
51	LOCATION OF SAFE, BOLT TO FLOOR, SEE INTERIOR ELEVATION 3C/A3.3.
52	UNDERCOUNTER REFRIGERATOR, SEE 1/A1.3 FOR SPECIFICATIONS.
53	BI-FOLD DOOR, SEE DOOR SCHEDULE A8.0.
54	REFER TO SHEET A6.6 FOR MILLWORK DETAILS, G.C. TO PROVIDE BLOCKING AS REQUIRED.
55	SINK, REFER TO DETAIL 4/A6.6.
56	DRAIN PUMP LIFT STATION, SEE P1.1 FOR DETAILS
57	6" H SNEEZE GUARD, PROVIDED BY PFE, INSTALLED BY G.C.
58	DUPLEX OUTLET AT 18" AFF FOR REFRIGERATOR.
59	DATA AND PHONE OUTLET AT 42" AFF, COORDINATE FINAL LOCATION WITH VIP WELLNESS OPERATOR.
60	NOT USED
61	HORIZONTALLY MOUNTED GFI OUTLET NEAR SINK.
62	J-BOX FOR INSTANT-FLOW ELECTRIC TANKLESS WATER HEATER, SEE P1.1 FOR SPECIFICATION.
63	DUPLEX OUTLET AT 60" AFF FOR REFRIGERATOR.

**CLIENT**

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**PROJECT LOCATION**

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4710 Freepoint Blvd, Suite 12K-A  
Sacramento, CA 95822

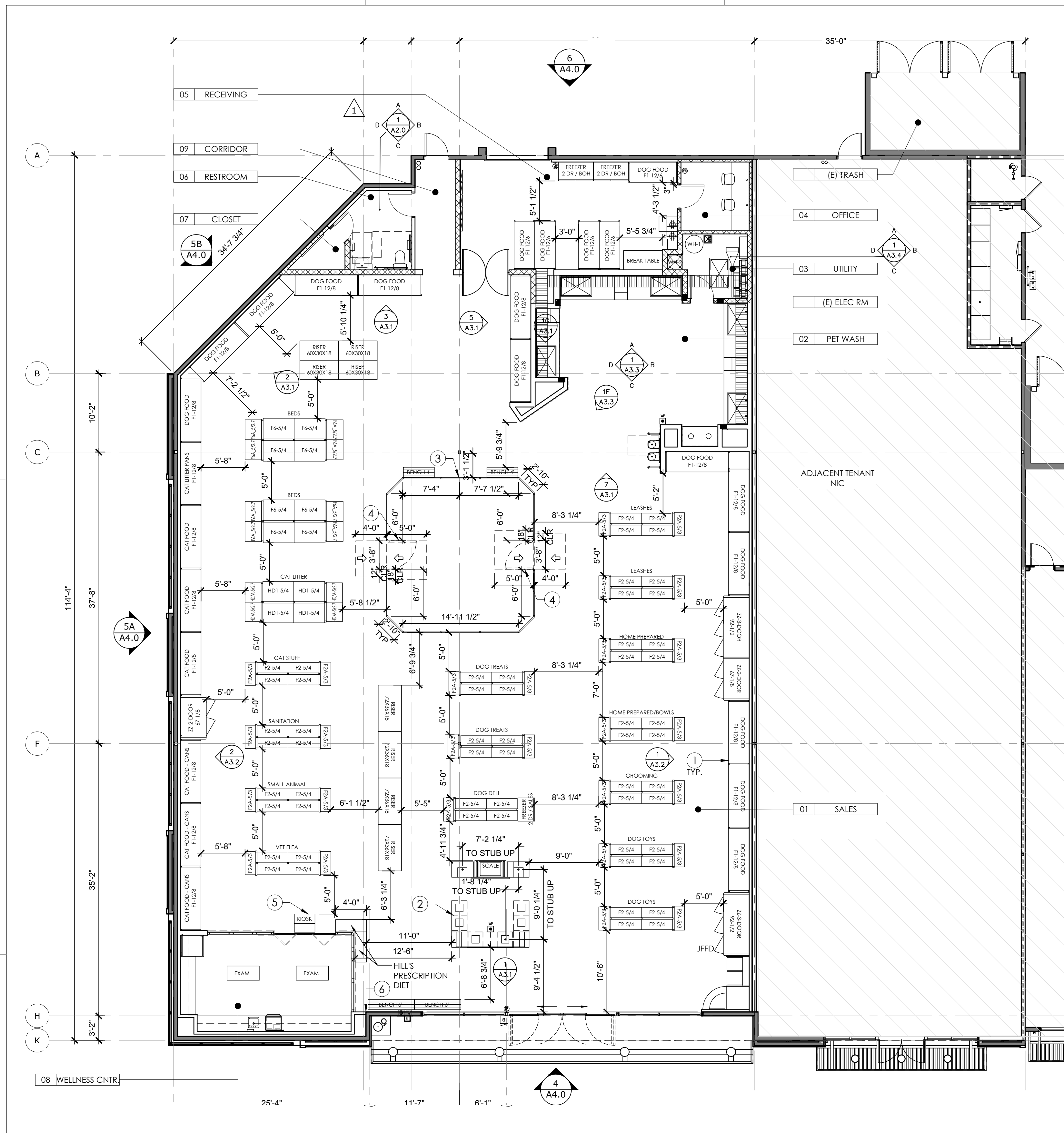
**DRAWING TITLE**

**ENLARGED CONSTRUCTION PLAN**

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

**A1.2A**





KEY NOTES	
1	"MY MUTT" POSTER. SEE DETAIL 4 FOR FRAME ASSEMBLY
2	SEE E7/A7.5 FOR ADA SERVICE COUNTER
3	PLAY AREA FENCE BY GC. ULTRA ALUMINUM - UAF-200 FLAT TOP W/ SPEARS & FLUSH BOTTOM PICKETS & PUPPY PICKET, 36" HIGH, W/ POST BASE-COLOR TO BE BLACK PROVIDE SUBMITTAL FOR APPROVAL- INSTALL PER MANUFACTURER SPECIFICATION. SEE DET. 1/A6.7
4	SINGLE GATE ARRANGEMENT. SEE 2/A6.7, SEE 3/A8.0 FOR GENERAL DOOR NOTES.
5	KIOSK. SEE 10/A6.6 FOR DETAILS.
6	EVENT SIGN. SEE 1/A3.1, 7/A9.2 FOR DETAILS.

ACCESSIBILITY NOTES	
1	1- THE COUNTER SURFACE HEIGHT SHALL BE 38 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE TOP OF THE COUNTER EDGE PROTECTION SHALL BE 2 INCHES MAXIMUM ABOVE THE TOP OF THE COUNTER SURFACE ON THE AISLE SIDE OF THE CHECK-OUT COUNTER. CBC SECTION 11B-904.3.2.
2	2- ACCESSIBILITY CHECK-OUT AISLES SHALL BE IDENTIFIED BY A SIGN CLEARLY VISIBLE TO A PERSON IN A WHEEL CHAIR DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH CBC 11B-703.7.2.1. THE SIGN SHALL BE A MINIMUM OF 4 INCHES BY 4 INCHES. CBC SECTION 11B-904.3.4
3	3- AISLES SHALL NOT BE LESS THAN 3'-0" WIDE IF SERVING ONLY ONE SIDE AND NOT LESS THAN 3'-8" WIDE IF SERVING BOTH SIDES. CBC SECTION 11B-403.5.1.

RACKING PLAN SCALE: 1/8" = 1'-0" 7

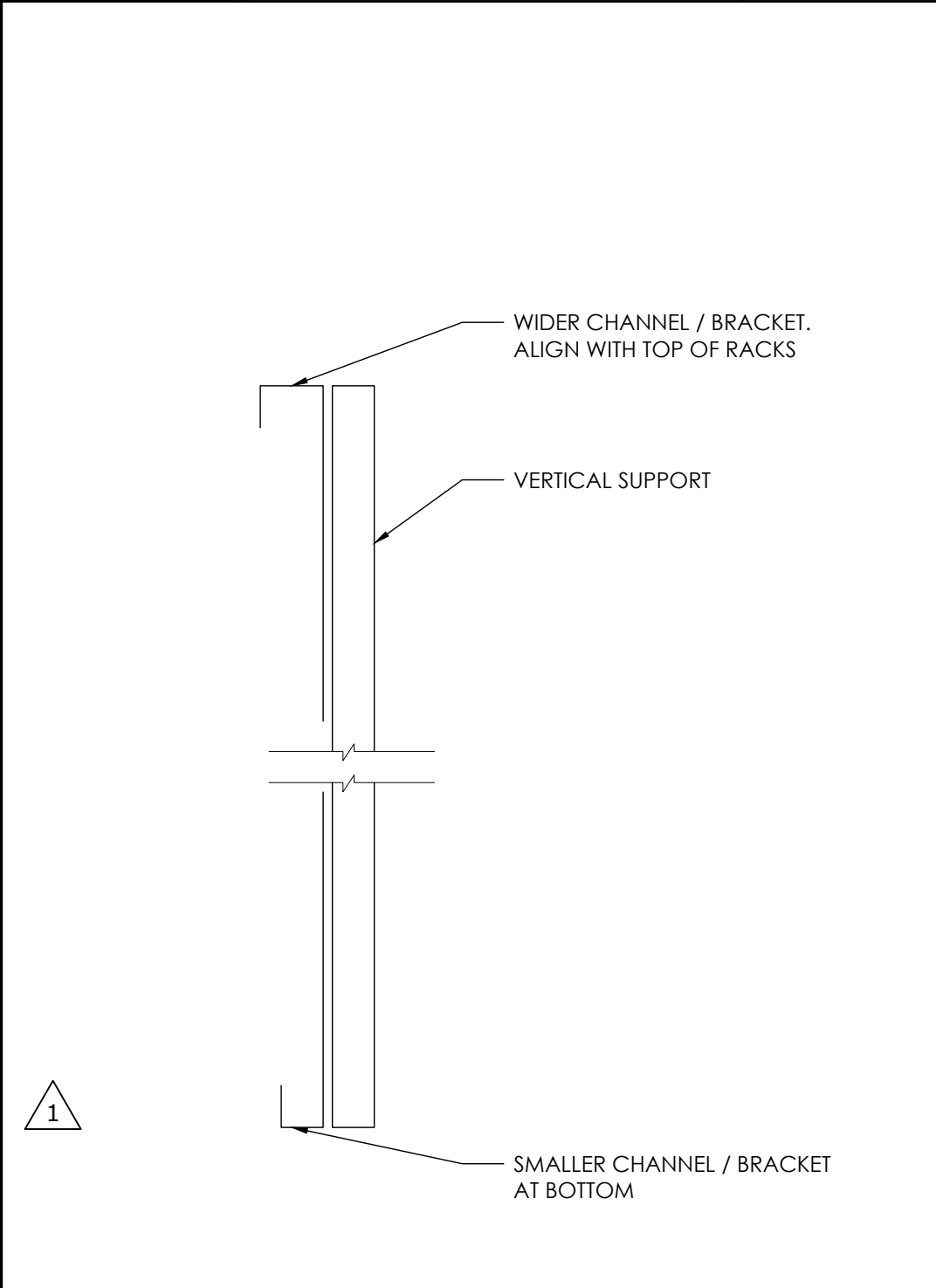
UNIT #	LOCATION	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7	PRODUCT
1	FRONT	1-2	9-10	15-16	21-22	27-28	33-34	42-43	DOG & CAT CANS
1	BACK	1-2	12-13	18-19	24-25	30-31	36-37	42-43	DOG & CAT CANS
1	BACK		14-15	20-21	26-27	32-33	38-39		BACK STOPS REQUIRED
2	FRONT	1-2	9-10	15-16	21-22	28-29	35-36	42-43	CAT CANS (NEW 1 SECTION)
2	BACK	1-2	12-13	18-19	24-25	28-29	35-36	42-43	CAT CANS
2	BACK		14-15	20-21	26-27				BACK STOPS REQUIRED
2	BACK					31-32	38-39		BACK STOPS IF REQUIRED
3	BOTH	1-2	10-11	19-20	27-28	34-35	42-43		DOG & CAT DRY FOOD
3	BACK			22-23	30-31	37-38			BACK STOPS IF REQUIRED
4	BOTH	1-2	10-11	20-21	31-32	42-43			LITTER PANS
4	BACK		13-14	23-24	34-35				BACK STOPS IF REQUIRED
5	BOTH	1-2	18-19	31-32	43-44				CARRIERS
6	FRONT	1-2	10-11	20-21	31-32	42-43			BEDS
6	BACK	1-2	11-12	21-22	32-33	42-43			BEDS
7	BOTH	1-2	35-36						CAT FURNITURE
8	BOTH	1-2	17-18	29-30	38-39	TOP 8'			WAREHOUSE
9	BOTH	1-2	10-11	18-19	29-30	38-39	TOP 8'		WAREHOUSE BLUE BINS

TYPICAL WIDE SPAN SHELF PLACEMENT SCALE: NTS 3

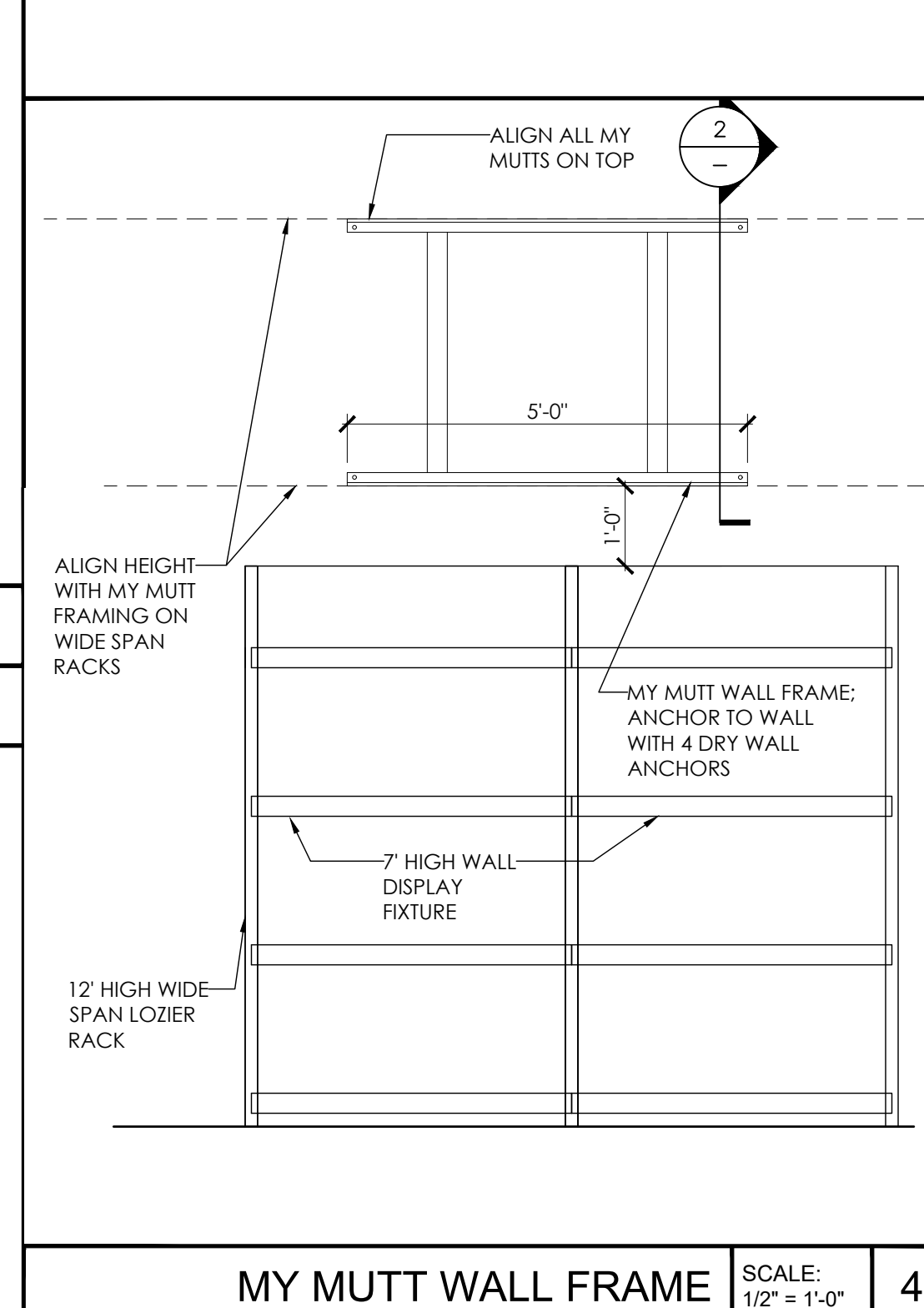
FIXTURE LEGEND & SCHEDULE

FIXTURE TYPE	HEIGHT (FT)	LENGTH (FT)
F1-12/6		

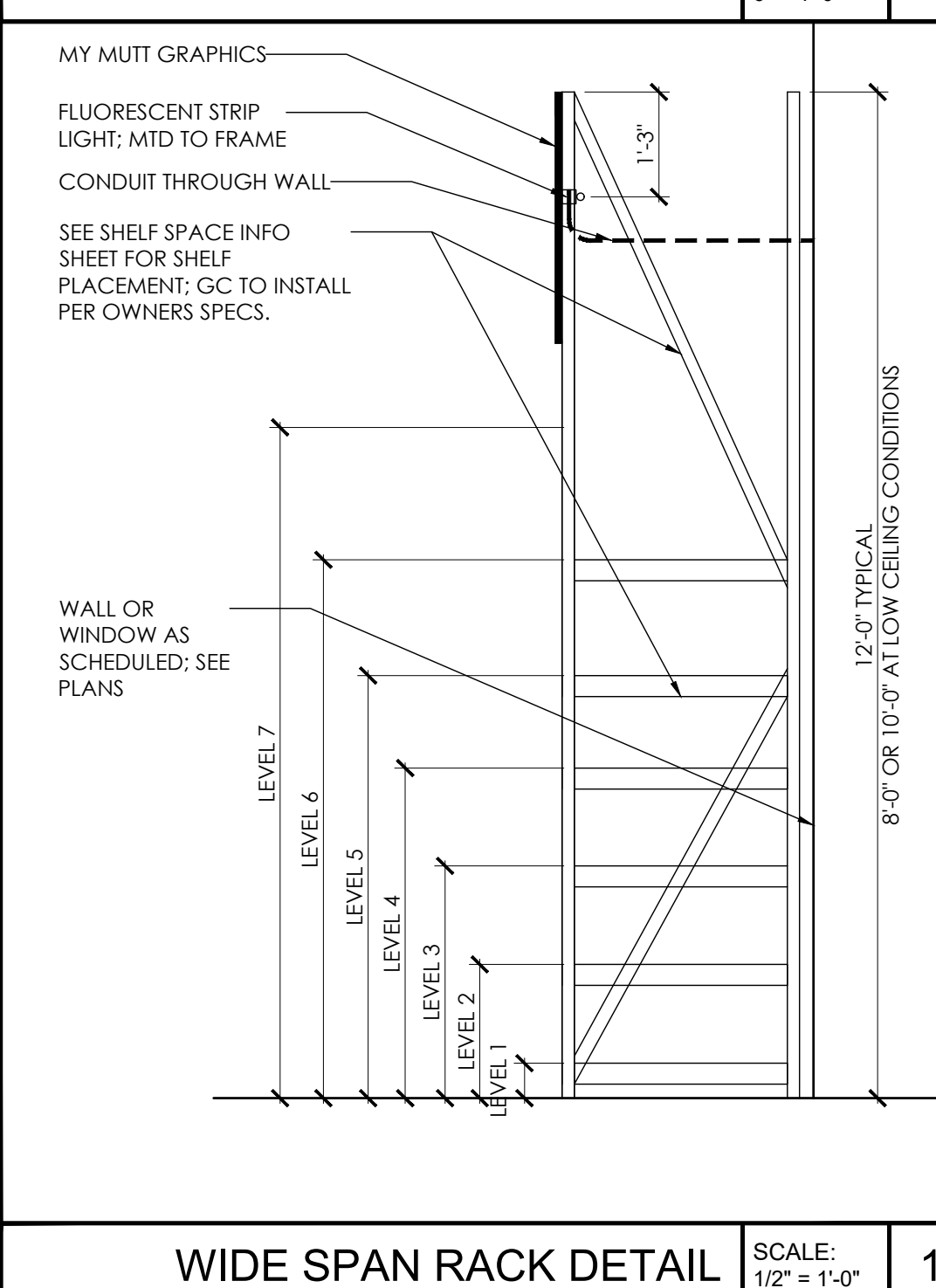
FIXTURE TYPE:  
 F1 PERIMETER RACKING - GENERAL  
 F2 OPEN FLOOR RACKING - GENERAL  
 F2A OPEN FLOOR RACKING AND CAP - GENERAL  
 F6 OPEN FLOOR RACKING - OVERSIZED FOR BEDS  
 F6A OPEN FLOOR RACKING AND CAP - OVERSIZED FOR BEDS  
 HD1 OPEN FLOOR RACKING - OVERSIZED FOR LITTER  
 D/A1 OPEN FLOOR RACKING AND CAP - OVERSIZED FOR LITTER



MY MUTT WALL FRAME DETAIL SCALE: 6" = 1'-0" 2



MY MUTT WALL FRAME SCALE: 1/2" = 1'-0" 4



WIDE SPAN RACK DETAIL SCALE: 1/2" = 1'-0" 1

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PROJECT LOCATION

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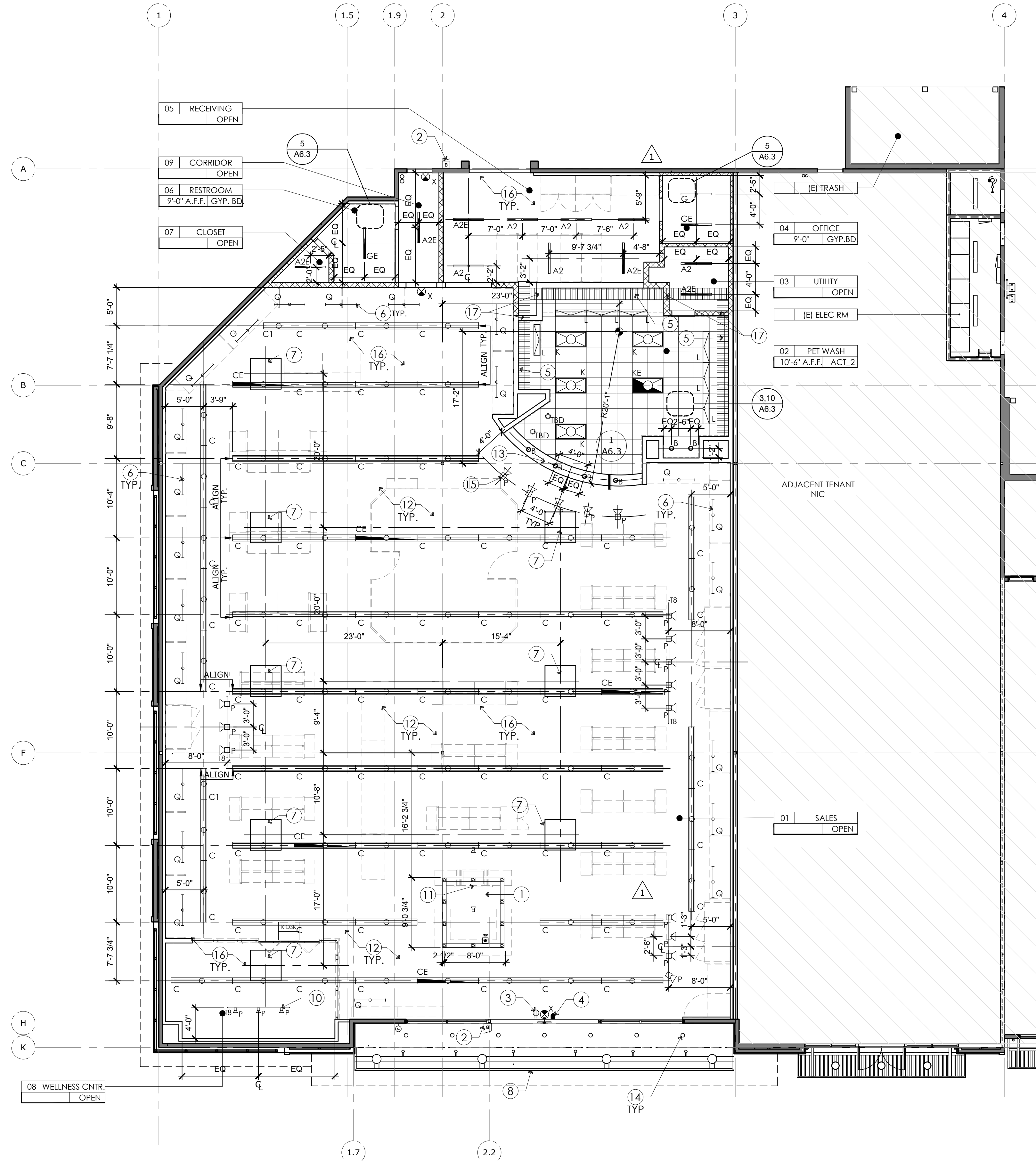
DRAWING TITLE

RACKING PLAN

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

**A1.4**





- ### GENERAL NOTES
- ALL CEILING HEIGHTS ARE MEASURED FROM TOP OF FINISH FLOOR TO THE UNDERSIDE OF FINISH CEILING AND ARE NOTED ON THE REFLECTED CEILING PLAN.
  - FOR CEILING MATERIAL SPECIFICATIONS, SEE FINISH SCHEDULE.
  - PROVIDE LATERAL SUPPORT WITH NO. 12 GA. WIRES SPAYED IN 4 DIRECTIONS.
  - NO COMBUSTIBLE MATERIALS SHALL BE ALLOWED ABOVE THE FINISHED CEILING.
  - CENTER EXIT LIGHTS ON THEIR CORRESPONDING DOORS WHERE APPLICABLE
  - PROVIDE ACCESS PANELS TO ALL EQUIPMENT ABOVE CEILING (IE: SMOKE DETECTORS, VAV BOXES, SIGN TRANSFORMERS, ETC). COORDINATE WITH MEP DRAWINGS.
  - ACCESS PANELS IN CEILING FOR PLUMBING, MECHANICAL OR ELECTRICAL ACCESS TO BE FLUSH FRAMELESS GYP. BD. PANELS. SEE SPEC AND DETAILS REFERENCED ON PLAN.
  - ADJACENT SPACING OF FRAMING TO ACCOMMODATE LIGHT FIXTURES, SPEAKERS, DIFFUSERS ETC. AS SHOWN.
  - ALL PENETRATIONS OF FIRE RESISTIVE FLOOR OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UL STANDARDS FOR THROUGH-PENETRATION FIRESTOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE TO THE UL LISTING TO THE ARCHITECT. SUCH DRAWINGS SHALL BE AVAILABLE TO ANY CITY INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.
  - FOR EMERGENCY LIGHTING QUANTITY AND LOCATIONS, SEE ELECTRICAL DRAWINGS.
  - ADJUST (E) SPRINKLER HEADS HEIGHTS AS NEED ALONG THE PARAMETER RACKS AND FIXTURES AND MY MUTT PANELS.
  - EXIT SIGNS SHALL BE INTERNALLY ILLUMINATED AND LISTED AND LABELED IN ACCORDANCE WITH UL 924 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CHAPTER 27.
  - THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL BE PROVIDED BY STORAGE BATTERIES TO PROVIDE CONTINUED ILLUMINATION FOR NOT LESS THAN 90 MINUTES.
  - SEE DETAIL 7/A6.3 FOR TYPICAL SUSPENDED LIGHT FIXTURE MOUNTING.

### LEGEND

SYMBOL	DESCRIPTION
	WIRE POOL
	CEILING HEIGHT & TYPE TAG
	NOT IN PROJECT SCOPE

- ### KEY NOTES
- ANNUNCIATOR RECEIVER ABOVE. OPTEX TD-20U WIRELESS 2000. SEE ELECTRICAL DRAWINGS
  - PROVIDE DOOR BELL. SEE ELECTRICAL DRAWINGS
  - POWER OUTLET FOR "OPEN" SIGN
  - ANNUNCIATOR TRANSMITTER ABOVE THE DOOR. OPTEX TD-20U WIRELESS 2000. SEE ELECTRICAL DRAWINGS. PROVIDED AND INSTALLED BY G.C.
  - 18" WIDE CABLE TRAY ABOVE GRID CEILING.
  - FLUORESCENT LIGHT FIXTURES MTD TO BACK F.O. GRAPHICS BELOW; SEE 1/A.1.4
  - SKYLIGHT UNDER SEPARATE PERMIT. REFER TO PERMIT NUMBER: COM-1909808. PROVIDED AND INSTALLED BY LANDLORD
  - EXTERIOR SIGNAGE. SEE ELEVATION A4.0 AND ELECTRICAL DRAWINGS
  - HVAC DIFFUSERS. SEE MECHANICAL DRAWINGS
  - NEW SUSPENDED TRACK WITH LIGHTS.
  - CENTER SUSPENDED SIGNAGE ABOVE EDGE OF BACKWRAP 8'-0" AFF TO BOTTOM. ALL CEILING HUNG SIGNS SHALL BE HUNG MINIMUM OF 18" BELOW SPRINKLER DEFLECTORS
  - PAINT UNDERSIDE OF ROOF, BEAMS AND JOISTS P-1. TYPICAL IN SALES AREA
  - GYP. BD. SOFFIT AT 8'-0" A.F.F.. SEE DET. 1/ A6.3
  - (E) LIGHTING BY BASE BUILDING
  - SUSPEND LIGHTING FROM UNISTRUT
  - BOTTOM OF SUSPENDED LIGHTING FIXTURE IN ALL AREAS WITH OPEN TO DECK CEILING 12'-6" AFF.
  - PROVIDE CUT OUT IN HIGH WALL FOR CABLE TRAY.

### CEILING FIXTURE SCHEDULE

SYMBOL	TAG	DESCRIPTION
A1	A1	8' LED FIXTURE PENDANT MTD AT +13'-0" AFF COOPER LIGHTING 8T5NLED-LD4-675L-LW-UNV-L840-CD1-U
A1E	A1E	8' LED FIXTURE PENDANT WITH 90 MINUTES BATTERY BACK-UP MTD AT +13'-0" AFF COOPER LIGHTING 8T5NLED-LD4-675L-LW-UNV-EL14-L840-CD1-U
A2	A2	4' LED FIXTURE PENDANT MTD AT +13'-0" AFF COOPER LIGHTING 4S5NLED-LD4275L-LW-UNV-L840-CD1-U
A2E	A2E	4' LED FIXTURE PENDANT WITH 90 MINUTES BATTERY BACK-UP MTD AT +13'-0" AFF COOPER LIGHTING 4S5NLED-LD4-275L-LW-UNV-EL14-L840-CD1-U
B	B	6" APERTURE LED RECESSED LED DOWNLIGHT HALO PD615ED010-PDM6-830-61V-C-WF
C	C	8' LED HIGHBAY, BAFFLED FIXTURE (CABLE MOUNTED W/ STEMS AT POWER FEEDS) MOBERN LIGHTING-FH8R-96LED-97-DMV40
CE	CE	8' LED HIGHBAY, BAFFLED FIXTURE (CABLE MOUNTED W/ STEMS AT POWER FEEDS) MOBERN LIGHTING-FH8R-96LED-97-DMV40 EM
C1	C1	4' LED HIGHBAY, BAFFLED FIXTURE (CABLE MOUNTED W/ STEMS AT POWER FEEDS) MOBERN LIGHTING-FH8R-48LED-48-DMV40
G	G	4' SURFACE MOUNTED LED FIXTURE COOPER LIGHTING 4S5NLED-LD4-275L-LW-UNV-L840-CD1-U
GE	GE	4' SURFACE MOUNTED LED FIXTURE COOPER LIGHTING 4S5NLED-LD4-275L-LW-UNV-L840-CD1-U
D	D	(E) EXTERIOR RECESSED DOWN LIGHT BY LANDLORD
E	E	EXTERIOR RECESSED DOWN LIGHT TO MATCH EXISTING LIGHT FIXTURE ID
K	K	2 X 4 RECESSED LED FIXTURE MOBERN LIGHTING RDIS-24-LED-30-DMV-40-(M565A24)
KE	KE	2 X 4 RECESSED LED FIXTURE MOBERN LIGHTING RDIS-24-LED-30-DMV-40-EM-(M565A24)
L	L	1 X 4 RECESSED LED WALL WASHER EPL 444W1WW-AK-40K
M1	M1	CUSTOM (SMALL) CABLE SUSPENDED LIGHT FIXTURE, MTD. AT 7'-6" AFF. LPSL-11 OR 9'-0" 3/4" X8" RECTANGLE-CZEN20-LED/DIM-10-120-BK
T	T	LED AREA WALL LIGHT, LITHONIA DSXW1-LED-10C-700-40K-T3M-MVOLT-DBDX
P	P	M8 VERTICAL ROUND ACCENT, MTD AT +12'-0" AFF MB-L441DMW32-IS117
T8	T8	ISB-W - 8' TRACK WHITE
T4	T4	IWAW - 4' TRACK WHITE
Q	Q	4' LED STRIP FIXTURE COOPER LIGHTING 4S5NLED-LD4-205L-UNV-L840-CD1-U W6/SNF-4FT
X	X	EXIT SIGN WITH INTERNALLY LIT 6" GREEN LETTERS ON WHITE BODY WITH 90 MINUTES BATTERY BY BACK-UP (VERIFY WALL OR CEILING MOUNT) BRILLIANT KAUZGW-EM
Y	Y	EXTERIOR RECESSED DOWNLIGHT SPECTRUM LIGHTING SC5H-2-42-EX-8427-AR8620-RBF8-PG-WL WITH TWO (2)-42W COMPACT FLUORESCENT LAMPS
XE	XE	EXTERIOR EMERGENCY EXIT LIGHT- PG-X
S	S	EXTERIOR SURFACE MOUNTED WALL SCONE. CONTECH-CYL6230KMVDUXMCLR-B
		24" x 30" ACCESS PANEL (PAINT TO MATCH CEILING) COORDINATE LOCATION WITH EQUIPMENT TO BE ACCESSED
		MUSIC SPEAKER: COORDINATE MOUNTING AND WIRING REQUIREMENTS WITH MUSIC SYSTEM VENDOR: GC TO PROVIDE CONDUIT AS REQUIRED TO AVOID EXPOSED WIRING (6 SPEAKERS PER TYPICAL STORE)
		SECURITY SYSTEM CAMERA: COORDINATE MOUNTING AND WIRING REQUIREMENTS WITH SECURITY SYSTEM VENDOR: GC TO PROVIDE CONDUIT AS REQUIRED TO AVOID EXPOSED WIRING
		SECURITY SYSTEM MOTION SENSOR: COORDINATE MOUNTING AND WIRING REQUIREMENTS WITH SECURITY SYSTEM VENDOR: GC TO PROVIDE CONDUIT AS REQUIRED TO AVOID EXPOSED WIRING
		SECURITY SYSTEM DOOR CONTACT: COORDINATE MOUNTING AND WIRING REQUIREMENTS WITH SECURITY SYSTEM VENDOR: GC TO PROVIDE CONDUIT AS REQUIRED TO AVOID EXPOSED WIRING
		BUZZER
		EXTERIOR ELECTRICAL RECEPTACLE W/ LOCKING COVER. SEE ELECTRICAL DRAWINGS

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**CONSULTANT**

**UNAUTHORIZED CHANGES**

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TO THE EXTENT ANY SUCH CHANGES ARE MADE WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT, CLIENT RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

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**ISSUE / REVISION**

NO.	DATE	REVISION NAME
1	4.19.19	ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

**PROJECT LOCATION**

**PET FOOD EXPRESS**  
4710 Freepoint Blvd, Suite 12K-A  
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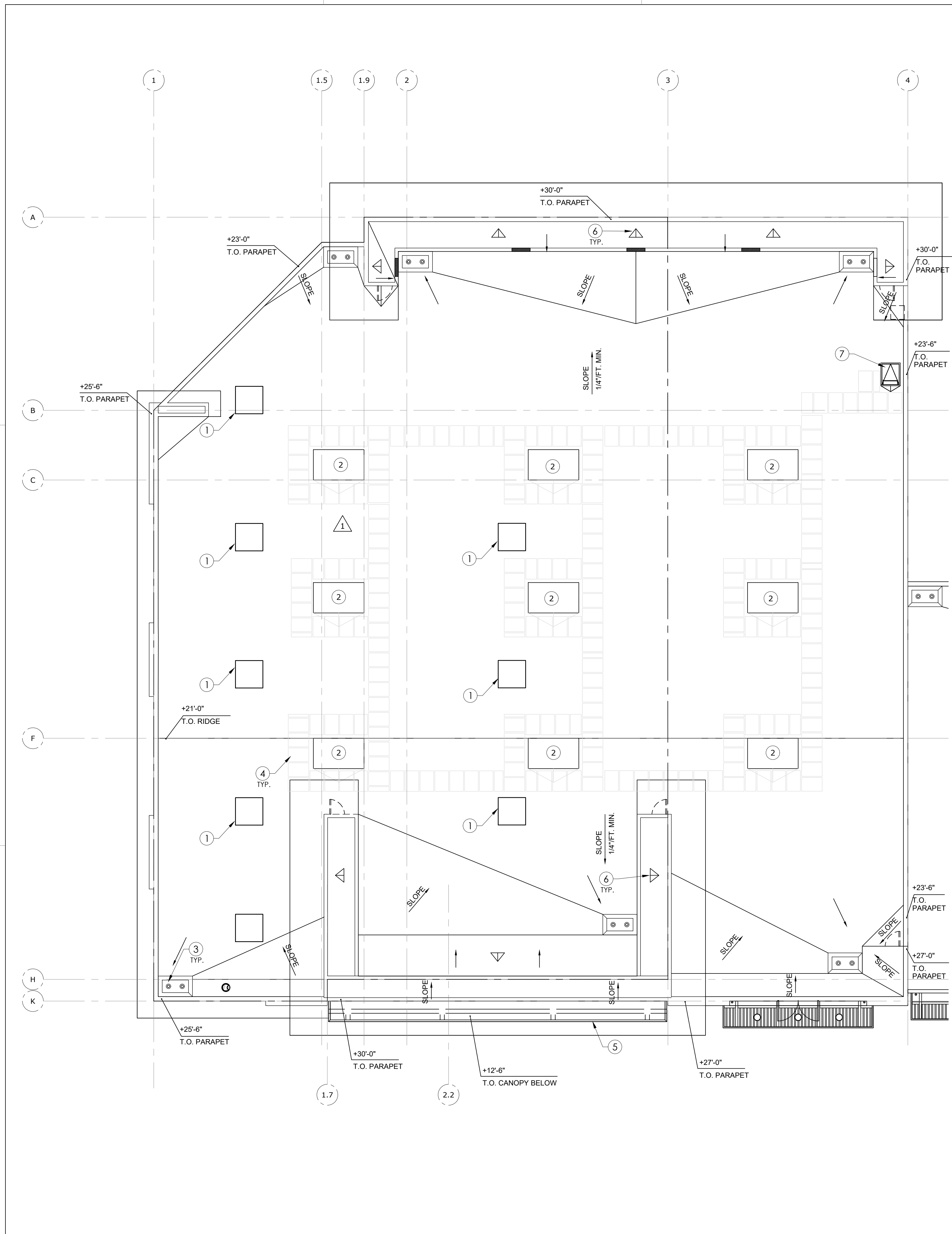
**DRAWING TITLE**

**REFLECTED CEILING PLAN**

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

# A1.5





LEGEND	
SYMBOL	DESCRIPTION
	EXISTING PARAPET
	EXISTING ROOF/OVERFLOW DRAIN

KEY NOTES	
①	SKYLIGHT UNDER SEPARATE PERMIT. REFER TO PERMIT NUMBER: COM-1909808. SKYLIGHT PROVIDED AND INSTALLED BY LANDLORD'S G.C.
②	EXISTING ROOFTOP UNITS AND CURB.
③	EXISTING ROOF DRAIN AND ROOF OVERFLOW.
④	EXISTING ROOF WALKWAY PADS. TYPICAL @ LADDER ACCESS AND AROUND EQUIPMENT.
⑤	EXISTING CANOPY BELOW WITH DRAINAGE TO CONTINUOUS INTEGRAL GUTTER.
⑥	EXISTING PARAPET VENT.
⑦	EXISTING ROOF HATCH.

### GENERAL NOTES

GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS, ROOF HATCH OPENINGS OR OTHER COMPONENTS THAT REQUIRE SERVICE ARE LOCATED WITHIN 10 FEET OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR, ROOF OR GRADE BELOW. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A SPHERE 21 INCHES IN DIAMETER. THE GUARD SHALL EXTEND NOT LESS THAN 30 INCHES BEYOND EACH END OF SUCH APPLIANCE, EQUIPMENT, FAN OR COMPONENT.

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①	6.10.19	REVISION 1
	9.13.19	BID SET

PROJECT LOCATION

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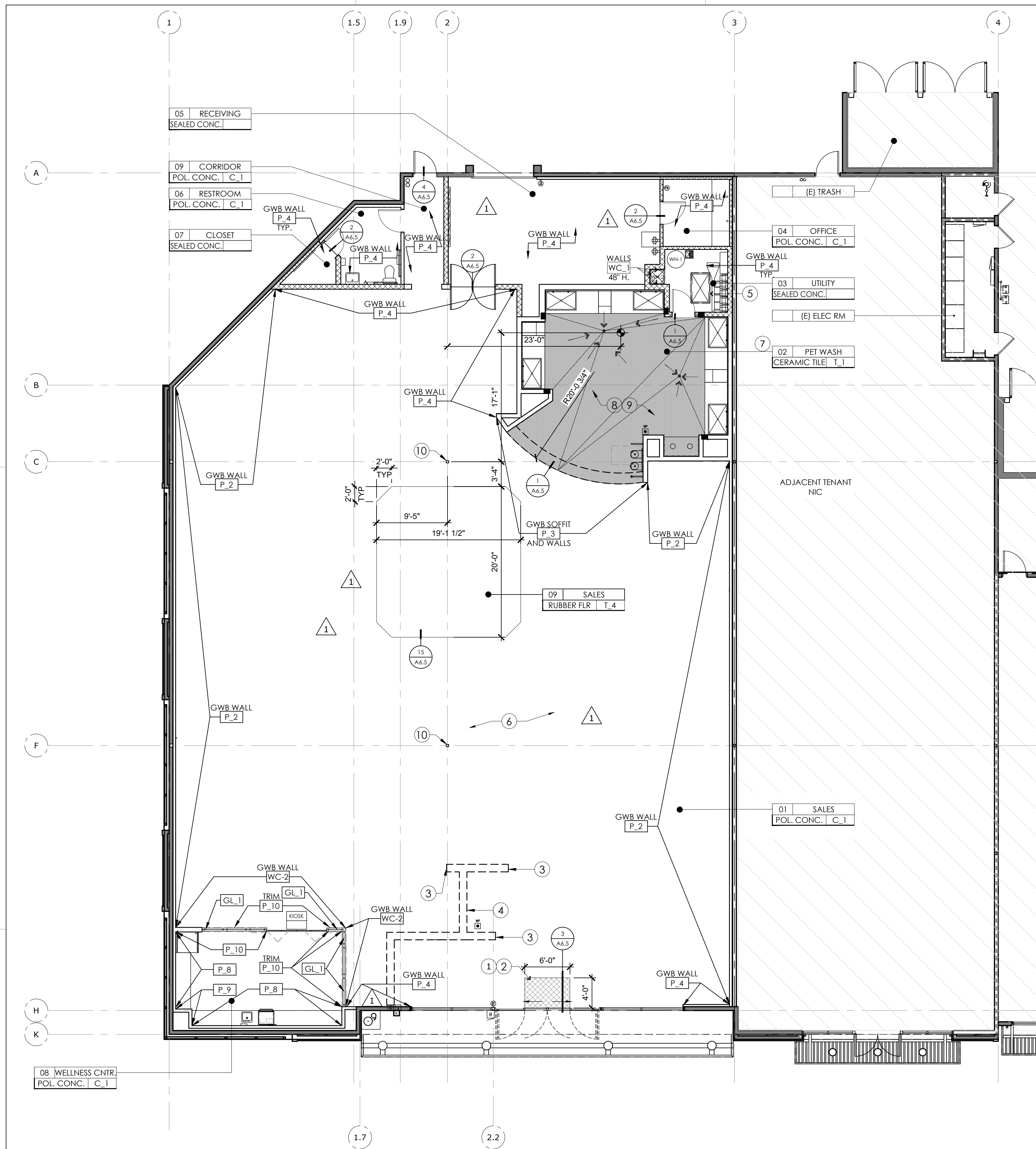
DRAWING TITLE

ROOF PLAN

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

**A1.6**





**FINISH PLAN** SCALE: 1/8" = 1'-0" **7**

FINISH MATERIAL NOTES	
NOTE: ADHESIVES, SEALANTS AND CAULKS, PAINTS AND COATINGS, AND AEROSOL PAINTS AND COATING SHALL MEET OR EXCEED STANDARDS OUTLINED IN SECTIONS 5.504.4.1, 5.504.4.3 AND 5.504.4.3.1 RESPECTIVELY. VERIFICATION OF COMPLIANCE WITH THESE SECTIONS MUST BE PROVIDED AT THE TIME OF INSPECTION.	INTERIOR WALL & CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD & SMOKE DEVELOPMENT INDEXES OF TABLE 803.9 OF 2016 CBC SECTION 803.  CLASS A - FLAME SPREAD INDEX 0-25; SMOKE DEVELOPMENT INDEX 0-450 CLASS B - FLAME SPREAD INDEX 26-75; SMOKE DEVELOPMENT INDEX 0-450 CLASS C - FLAME SPREAD INDEX 76-200; SMOKE DEVELOPMENT INDEX 0-450  SEE CBC TABLE 803.9 FOR SPECIFIC LOCATION AND OCCUPANCY REQUIREMENTS.

GENERAL NOTES	
1.	G.C TO PROTECT TILE FLOORING FROM DAMAGE DURING FIXTURE DELIVERY AND INSTALLATION
2.	EXAMINE ALL SURFACES TO BE PAINTED UNDER THIS CONTRACT AND SEE THAT THE WORK OF OTHER TRADES HAVE BEEN LEFT OR INSTALLED IN A SATISFACTORY CONDITION TO RECEIVE PAINT OR SPECIFIED FINISH.
3.	PAINTER SHALL BE RESPONSIBLE FOR THE REMOVAL OF HARDWARE, SWITCH AND OUTLET COVERS, ETC. AND REINSTALLATION OF SAME AFTER PAINTING.
4.	AT COMPLETION OF PAINTING, ALL PAINT MATERIALS AND EQUIPMENT SHALL BE REMOVED, ALL PAINT SPOTS REMOVED, AND ALL AREAS THOROUGHLY CLEANED. ANY DIRT OR DEBRIS CAUSED BY WORK SHALL BE CLEANED UP AS WORK PROGRESS.
7.	RETOUCH OR REFINISH SURFACES DAMAGED BY SUBSEQUENT WORK AS DIRECTED BY GENERAL CONTRACTOR. THE COST OF SUCH RESTORATION WORK SHALL BE BORNE BY THE CONTRACTOR.
8.	THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER PROTECTION AGAINST DAMAGE TO EXISTING FURNITURE, ADJACENT FINISHED WORK, FLOORING, ETC. IF APPLICABLE.

LEGEND		KEY NOTES	
SYMBOL	DESCRIPTION	1	DEPRESS [E] SLAB 5/8" FOR WALK-OFF MAT.
[Hatched Box]	WALK OFF MAT	2	RECESSED WALK OFF MAT, M.L. FULL WIDTH OF DOOR
[Solid Box]	FLOOR TILE	3	ELECTRICAL STUB-UP, COORDINATE LOCATION WITH FIXTURE. SEE SHEET A1.4. SEE ELECTRICAL DRAWINGS.
[Circle]	FLOOR DRAIN	4	AREA OF [N] TRENCH IN-FILL, FINISH TO MATCH ADJACENT SALES FLOOR.
[Square]	FLOOR SINK	5	AREA OF CONCRETE SLAB LEAVE OUT FOR LINT TRAP, SEE PLUMBING DRAWINGS
[Triangle]	FLOOR FINISH TAG	6	REFER TO ROOM AND FINISH SCHEDULES THIS PAGE
[Circle with P]	WALL FINISH TAG	7	FOR WALL FINISHES IN PET WASH AREA REFER TO INTERIOR ELEVATIONS 1/A3.3, A7.1, A7.2, A7.3 AND FINISH SCHEDULES.
[Circle with T]	FLOOR FINISH TAG	8	EXCAVATE [E] SLAB AS NECESSARY TO PREPARE FOR [N] SLOPED SLAB INFILL FOR PET WASH.
[Circle with T]	FLOOR FINISH TAG	9	TILE FLOOR, SLOPE TO DRAIN 1/4" PER FOOT MIN.
[Circle with X]	NOT IN PROJECT SCOPE	10	EXISTING COLUMN TO REMAIN.

ROOM AND FINISH SCHEDULES					
ROOM FINISH SCHEDULE					
ROOM NAME	FLOOR	BASE	WALLS	CEILING	REMARKS
SALES	POLISHED CONCRETE	COVE VINYL BASE	PAINTED GYP. BD.	PAINTED GYP. BD.	
PET WASH	CERAMIC TILE	COVE TILE BASE	CERAMIC TILE ON CONC. BACKER BD. (SEE WALL FINISHES FOR DETAILS)	A.C.T.	GC TO PROVIDE APPLICATION OF SLIP TECH TREATMENT TO FLOOR TILE
OFFICE	POLISHED CONCRETE	COVE VINYL BASE	PAINTED GYP. BD.	PAINTED GYP. BD.	
RESTROOMS	POLISHED CONCRETE	COVE TILE BASE	60" TILE WAINSCOT & PAINTED W.R. GYP. BD.	PAINTED GYP. BD.	
RECEIVING	SEALED CONCRETE	COVE VINYL BASE	48"H PLYWOOD WAINSCOT & PAINTED GYP. BD.	EXPOSED STRUCTURE	KOROGARD 2" X 48" H STAINLESS STEEL CORNER GUARDS AT ALL CORNERS
UTILITY	SEALED CONCRETE	COVE VINYL BASE	PAINTED GYP. BD.	EXPOSED STRUCTURE	GC TO PROVIDE SOUND INSULATION AT WALLS AND CEILINGS
ADOPTION	POLISHED CONCRETE	COVE VINYL BASE	PAINTED GYP. BD.	PAINTED GYP. BD.	
VIP WELL-CARE	POLISHED CONCRETE	COVE VINYL BASE	PAINTED GYP. BD. STICK WOOD PLASTIC LAMINATE 6"HX1/4" TEMPERED GLASS SNEEZE GUARD	PAINTED GYP. BD.	SEE WALL FINISHES FOR SNEEZE GUARD MANUFACTURER

FLOOR FINISHES		
MARK	MATERIAL	SPECIFICATION
M_1	FLOOR MAT	SOFT GRID BY MATS Inc. - STANDARD GRAY, R FRAME. INSTALL PER MANUFACTURE SPECIFICATIONS
C_1	POLISHED CONCRETE	PACDE/RETROPLATE FINISH SYSTEM; RETROPLATE 99 WITH RETROGUARD SEALER ALL NEW POURS TO ACHIEVE 15% MINIMUM FLYASH CONTENT
T_1	1" HEXAGON TILE	DAL TILE MOSAIC COLORBODY PORCELAIN 1" HEXAGON, BLACK #D311 GROUT: CUSTOM BUILDING PRODUCTS #165 DELOREAN GRAY, SEAL GROUT W/ SEALERS CHOICE GOLD - NOT FLAMMABLE - CLASS A
T_4	RUBBER FLOOR	ECOSURFACES: 2513 ASPHALT JUNGLE, 3.2 MM ROLLED (NO FATIGUE) WITH MERCER REDUCER STRIP 733 UNDERSLUG SELF-STICK-208 LIGHT GRAY, PROVIDE CLEANING AND SEALER PER MANUFACTURER'S RECOMMENDATION

CEILING FINISHES		
MARK	MATERIAL	SPECIFICATION
ACT_1	24" X 48" CEILING TILE	ARMSTRONG; MODEL 1761 - 24" X 48" FINE FISSURE SECOND LOOK II WITH SHADOW EDGE MOLDING
	WHITE VINYL CAP SHEET	SUBMIT SPECIFICATION FOR REVIEW
P_1	PAINT - WHITE	KELLY MOORE; ENVIRO COAT COLOR B10-L15 SEMI GLOSS FINISH
ACT_2	24" X 24" CEILING TILE	ARMSTRONG; MODEL 607 - 24" X 24" CERAMACUARD FINE FISSURE PERFORATED TILES WITH ARMSTRONG PRELUDE PLUS XL 15/16" ENVIRONMENTAL TEE SYSTEM, SEE A6.3 FOR MORE DETAILS

WALL FINISHES		
MARK	MATERIAL	SPECIFICATION
RB_1	RUBBER COVE BASE	BURKE; COLOR 502 IN SALES / 701 IN BACK OF HOUSE
P_1	PAINT - WHITE	KELLY MOORE; ENVIRO COAT (0 GRAMS VOC) COLOR B10-L15, SEMI GLOSS FINISH
P_2	PAINT - FRENCH OAK	KELLY MOORE; ENVIRO COAT (0 GRAMS VOC) COLOR KM4628, EGG SHELL FINISH
P_3	PAINT - WHIPPLE BLUE	BENJAMIN MOORE; (0 GRAMS VOC) COLOR HC-152, EGG SHELL FINISH
P_4	PAINT - CHAMPAGNE BUBBLE	KELLY MOORE; ENVIRO COAT (0 GRAMS VOC) COLOR KM5731-1, EGG SHELL FINISH
P_5	PAINT - MINT GRASSHOPPER	KELLY MOORE; ENVIRO COAT (0 GRAMS VOC) COLOR KM5162, EGG SHELL FINISH
P_6	PAINT - PURIFICATION	KELLY MOORE; ENVIRO COAT (0 GRAMS VOC) COLOR KM5004, EGG SHELL FINISH (AT MURALS)
P_7	PAINT - DINOSAUR BONE	KELLY MOORE; ENVIRO COAT (0 GRAMS VOC) COLOR KM4567-3, EGG SHELL FINISH
P_8	PAINT - GRACIOUS	KELLY MOORE; ENVIRO COAT (0 GRAMS VOC) COLOR KM111-1, EGG SHELL FINISH
P_9	PAINT - SNAPPY HAPPY	KELLY MOORE; ENVIRO COAT (0 GRAMS VOC) COLOR KM5345-S, EGG SHELL FINISH
P_10	PAINT - TREASURE CHEST	KELLY MOORE; ENVIRO COAT (0 GRAMS VOC) COLOR KM4609-S, EGG SHELL FINISH

WALL FINISHES (CONTINUED)		
MARK	MATERIAL	SPECIFICATION
T_2	2" X 2" TILE	DAL TILE; DAL MOSAIC SUEDE GRAY SPECKLE #D208, TILE SIZE 2"X2" TILE GROUT: CUSTOM BUILDING PRODUCTS #165 DELOREAN GRAY, SANDED PRESUME SERIES
T_3A	4 1/4" X 4 1/4" TILE (CHECKER)	DAL TILE; SEMI-GLOSS GLAZED 4 1/4" X 4 1/4" TILE #0100 WHITE GROUT: CUSTOM BUILDING PRODUCTS #381 BRIGHT WHITE, UNSANDED WHERE REQUIRED USE DAL TILE #5-4449 - BULLNOSE #A-3401 - COVE BASE #SCR-3401 - OUTSIDE CORNER BASE
T_3B	4 1/4" X 4 1/4" TILE (CHECKER)	DAL TILE; SEMI-GLOSS GLAZED 4 1/4" X 4 1/4" TILE #X114 DESERT GRAY GROUT: CUSTOM BUILDING PRODUCTS #381 BRIGHT WHITE, UNSANDED WHERE REQUIRED USE DAL TILE #5-4449 - BULLNOSE #A-3401 - COVE BASE #SCR-3401 - OUTSIDE CORNER BASE
T_4	2 1/8" X 8 1/2" TILE	DAL TILE; GLAZED 2 1/8" X 8 1/2" TILE #1469 GALAXY GROUT: CUSTOM BUILDING PRODUCTS #381 BRIGHT WHITE, UNSANDED
WC_1	FRP	FRP RIGID - SHEET VINYL WALL COVERING; 48" HIGH KEMLITE FIRE-X GLASBOARD PLUS, SEQUENTIA, SET, MECHANICALLY FASTENED, CONCEALED TYPE ONLY PER MANUFACTURER RECOMMENDATION.
WC_2	STICK WOOD	VERTICAL CARAMELIZED BAMBOO 866.226.8354 support@stikwood.com
WC_3	STICK WOOD	VERTICAL CARAMELIZED BAMBOO WOOD CORNER TRIM 866.226.8354/ support@stikwood.com
GL_1	6"HX1/4" TEMPERED GLASS SNEEZE GUARD	ONE DAY GLASS PENINSULA GLASS CO. 6005 NE 121ST AVE. VANCOUVER, WA 98682 TEL: (800) 452-6117 / FAX: (360) 892-8152 GLASS AND CLIPS PROVIDED BY PFE
PL_1	PLASTIC LAMINATE	WILSONART LAMINATE BLACK MATTE FINISH COLOR #1595-60
PL_2	PLASTIC LAMINATE	NEVAMAR LAMINATE WHITE MATTE FINISH COLOR #57004T

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ISSUE / REVISION		
NO.	DATE	REVISION NAME
	4.19.19	ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

PROJECT LOCATION

1 PET FOOD EXPRESS  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

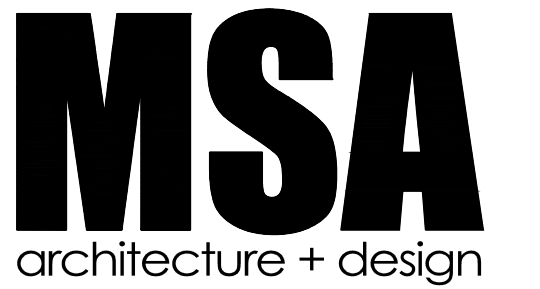
DRAWING TITLE

FINISH PLAN AND SCHEDULES

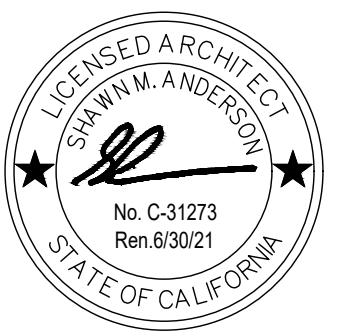
SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

# A1.7





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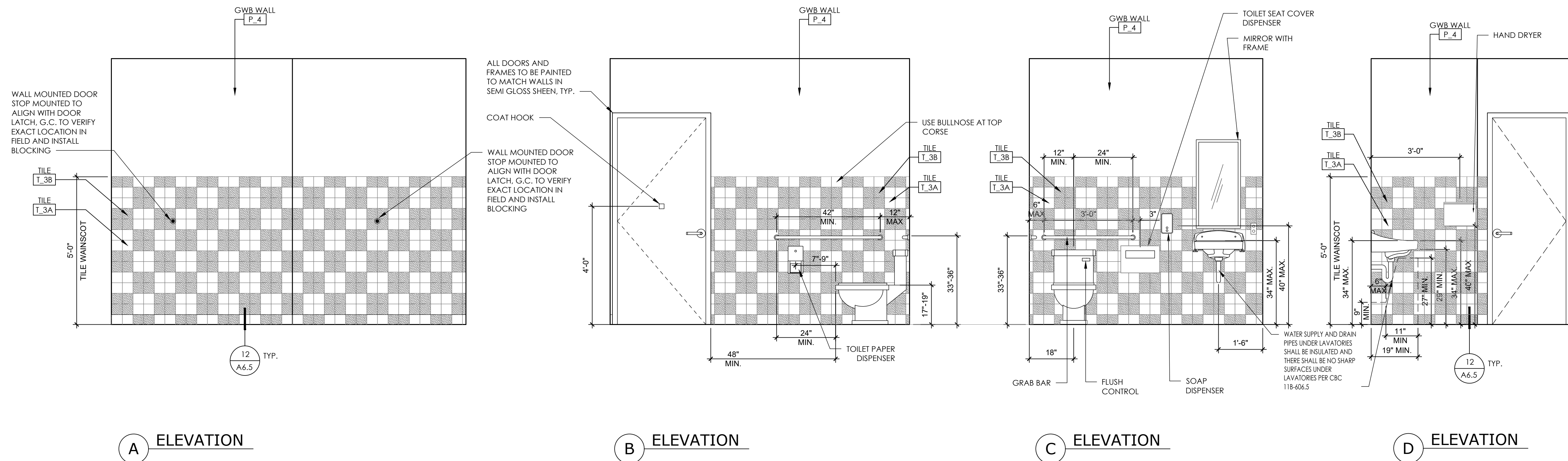
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ENLARGED RESTROOM PLAN

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

A2.0



A ELEVATION

B ELEVATION

C ELEVATION

D ELEVATION

RESTROOM ELEVATIONS

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

2

TOILET ROOM GENERAL NOTES

- FOR WALL TYPES AND LEGEND SEE SHEET A1.2 AND A6.1
- FOR RESPONSIBILITY MATRIX SEE SHEET A0.2
- FOR LAVATORY AND WATER CLOSET INFORMATION SEE PLUMBING, TYP
- PROVIDE LATICRETE #9235 WATERPROOFING & ANTI-FRACTURE MEMBRANE, OR EQUAL, AT BATHROOM FLOORS, INSTALL PER MANUFACTURERS RECOMMENDATIONS. CONTINUE WATERPROOFING MEMBRANE A MINIMUM OF 4" UP ALL VERTICAL SURFACES. VERIFY ALL WATERPROOFING REQUIREMENTS WITH LANDLORD PRIOR TO INSTALLATION.
- THE TOILET ROOM SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS INCLUDING, BUT NOT LIMITED TO HANDICAPPED ACCESSIBILITY REGULATIONS.
- ALL TOILET ROOM ACCESSORIES AND FIXTURES SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. ALL CONSTRUCTION AND MOUNTING HEIGHTS SHALL COMPLY WITH ALL APPLICABLE CITY, STATE AND FEDERAL ACCESSIBILITY REGULATIONS. COORDINATE WITH ARCHITECT FOR ALL QUESTIONABLE MOUNTING HEIGHTS
- REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION AND SPECIFICATIONS REGARDING PLUMBING FIXTURES.
- ALL TOILET ROOM FINISHES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. REFER TO FINISH SCHEDULE FOR FINISHES
- THE PLUMBING CONTRACTOR IS TO FAMILIARIZE HIMSELF WITH LANDLORD'S CRITERIA FOR THIS LOCATION AND INCLUDE ANY WORK REQUIRED OF THIS CRITERIA (IF APPLICABLE), WHICH IS NOT SPECIFICALLY NOTED IN THESE DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR TO PROVIDE CONCEALED F.T. WOOD BLOCKING OR 20 GA. METAL BACKING PLATES AT ALL WALL MOUNTED TOILET ROOM ACCESSORIES.
- CAULK ALL BATHROOM FIXTURES AND ACCESSORIES WITH WHITE DAP 50 YEAR PREMIUM ELASTOMERIC LATEX SEALANT.
- G.C. TO VERIFY THAT WATER CLOSET FLUSH CONTROL HANDLE IS LOCATED ON THE ACCESSIBLE SIDE OF THE TOILET (NOT WALL SIDE).
- G.C. TO VERIFY THAT INDICATED PLUMBING ELEMENTS DO NOT CONFLICT W/ BUILDING ELEMENT.

NOTE:

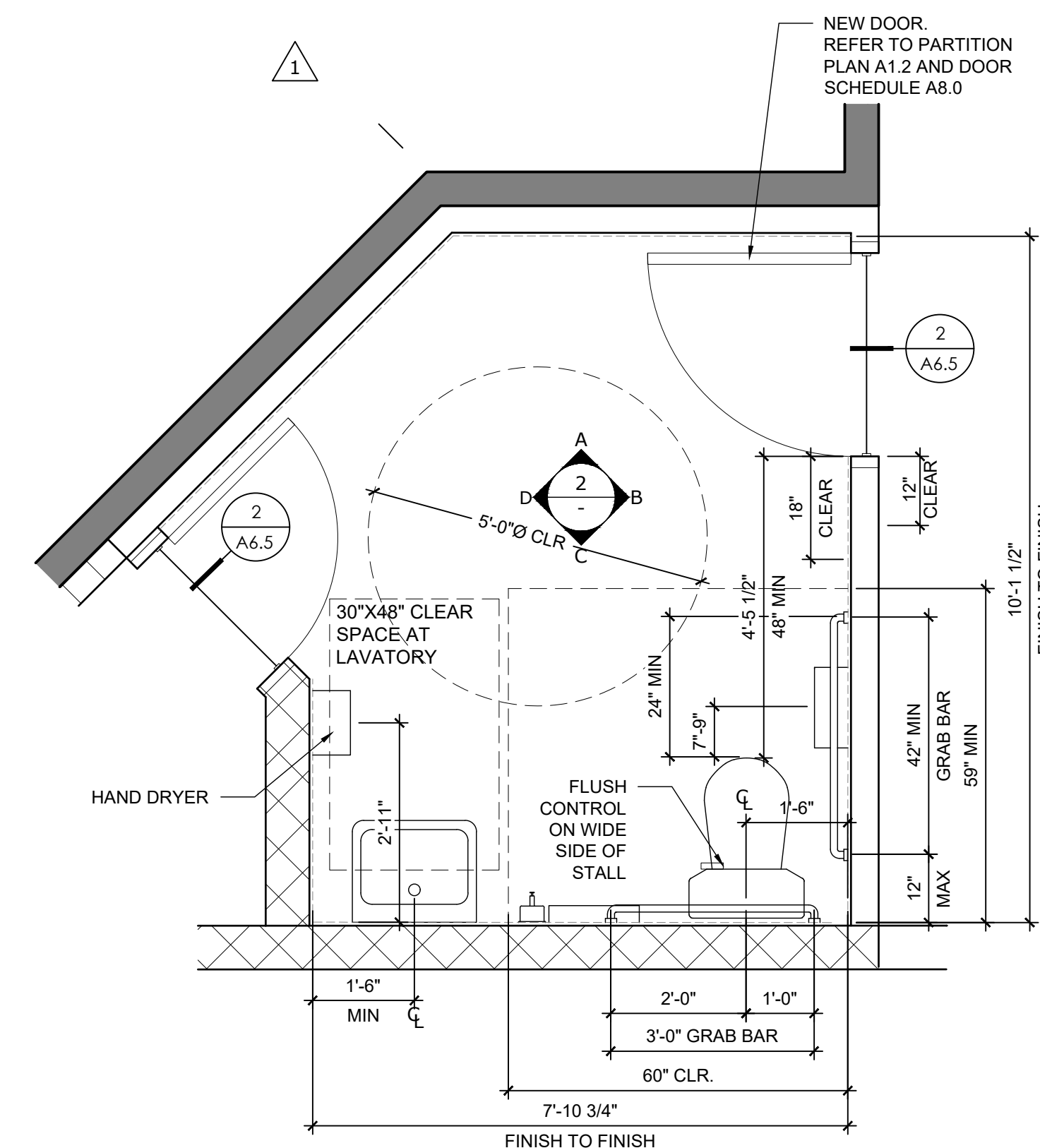
THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES.

THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECT BELOW AND AT THE ENDS SHALL BE 1-1/2 INCHES MINIMUM.

THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.

NOTE:

SEE A0.2 FOR RESPONSIBILITY SCHEDULE



ENLARGED TOILET ROOM PLAN

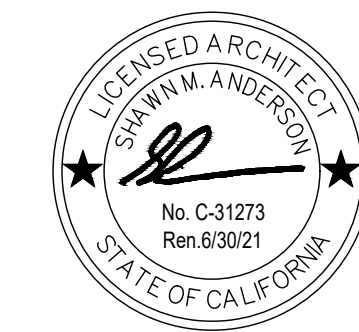
SCALE: 1/2" = 1'-0"

1





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NO.	DATE	REVISION NAME
4.19.19		ISSUE FOR PERMIT
6.10.19		REVISION 1
9.13.19		BID SET

PROJECT LOCATION

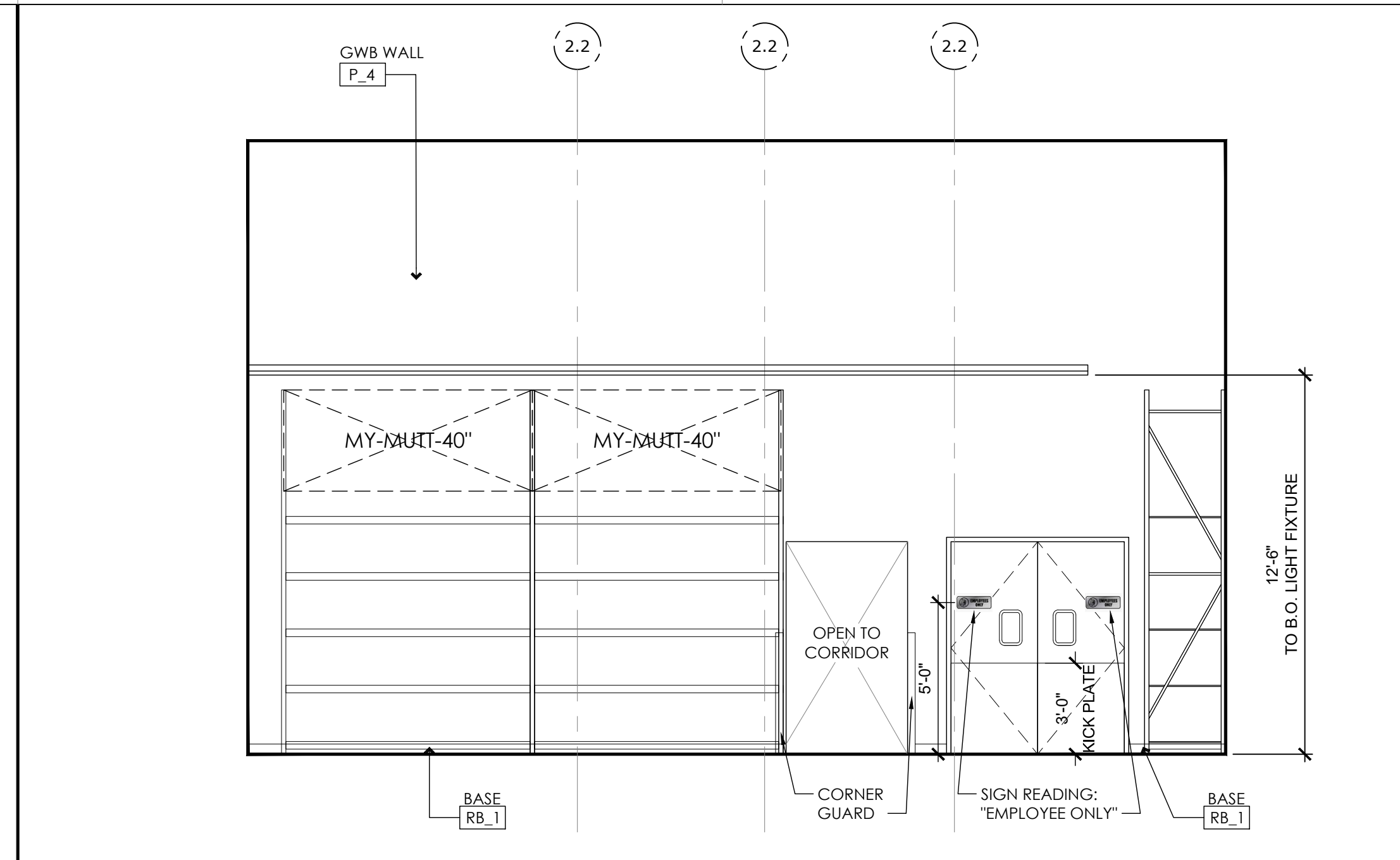
1 PET FOOD EXPRESS  
4710 Freepoint Blvd, Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

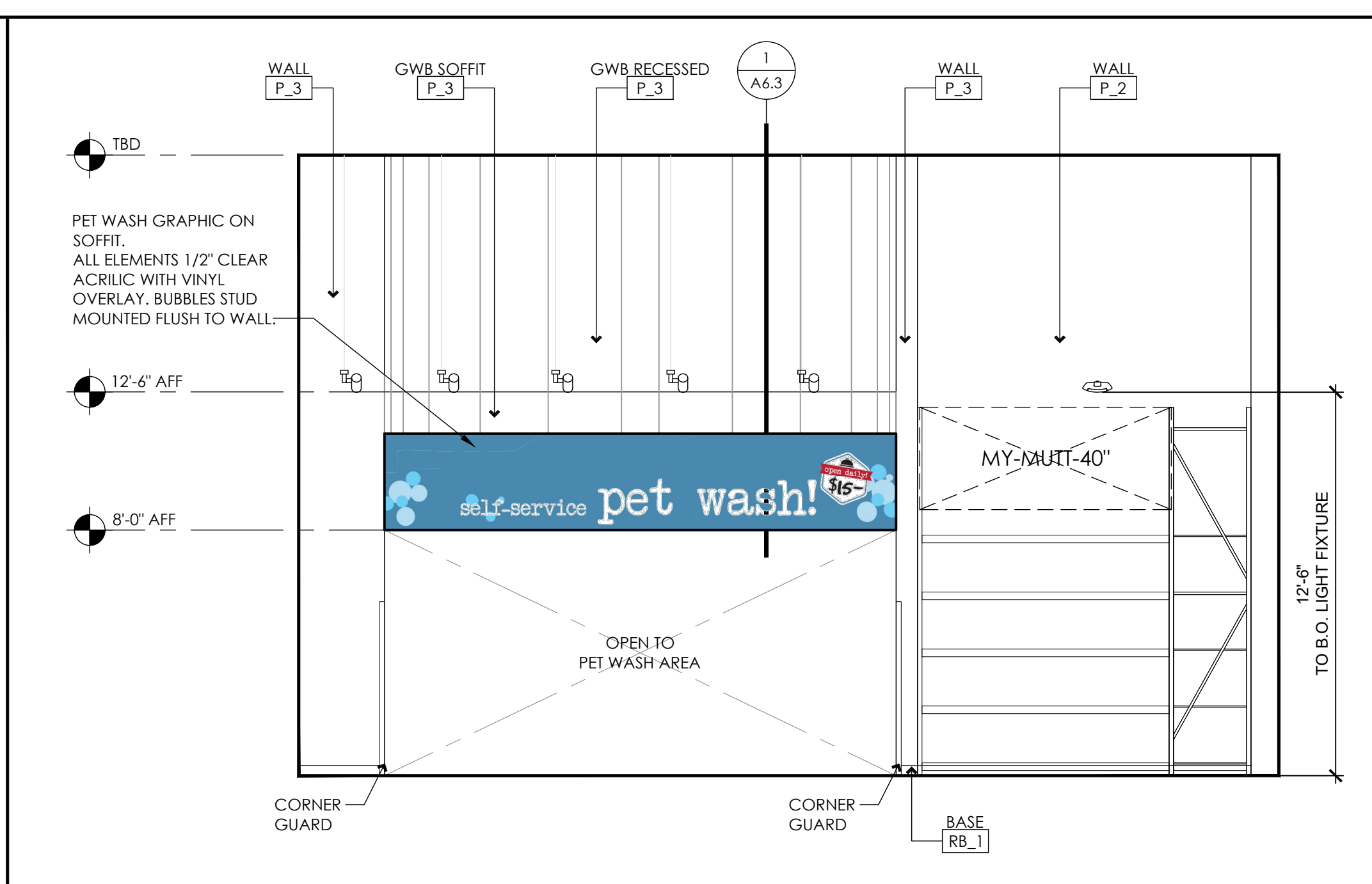
INTERIOR ELEVATIONS

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

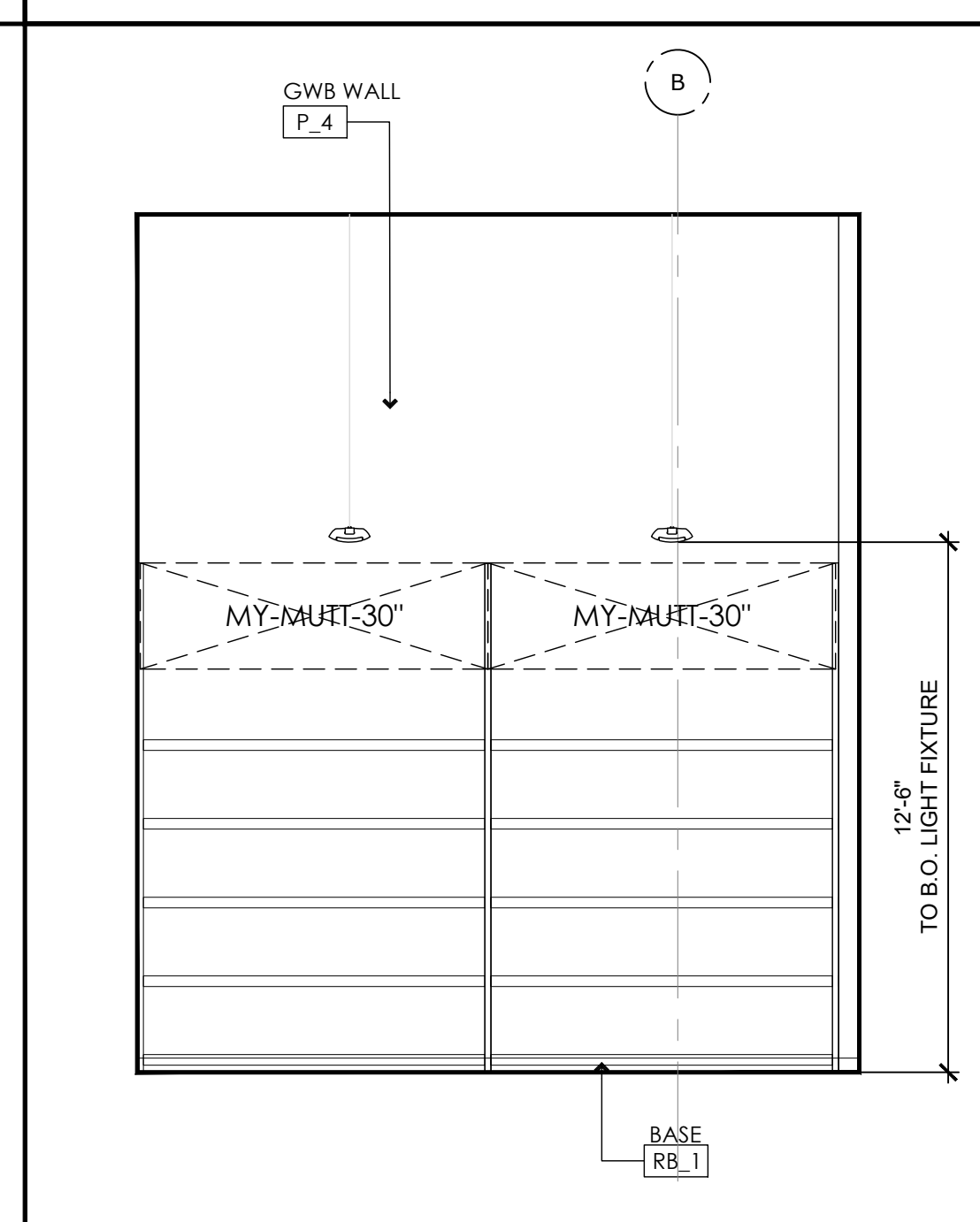
A3.1



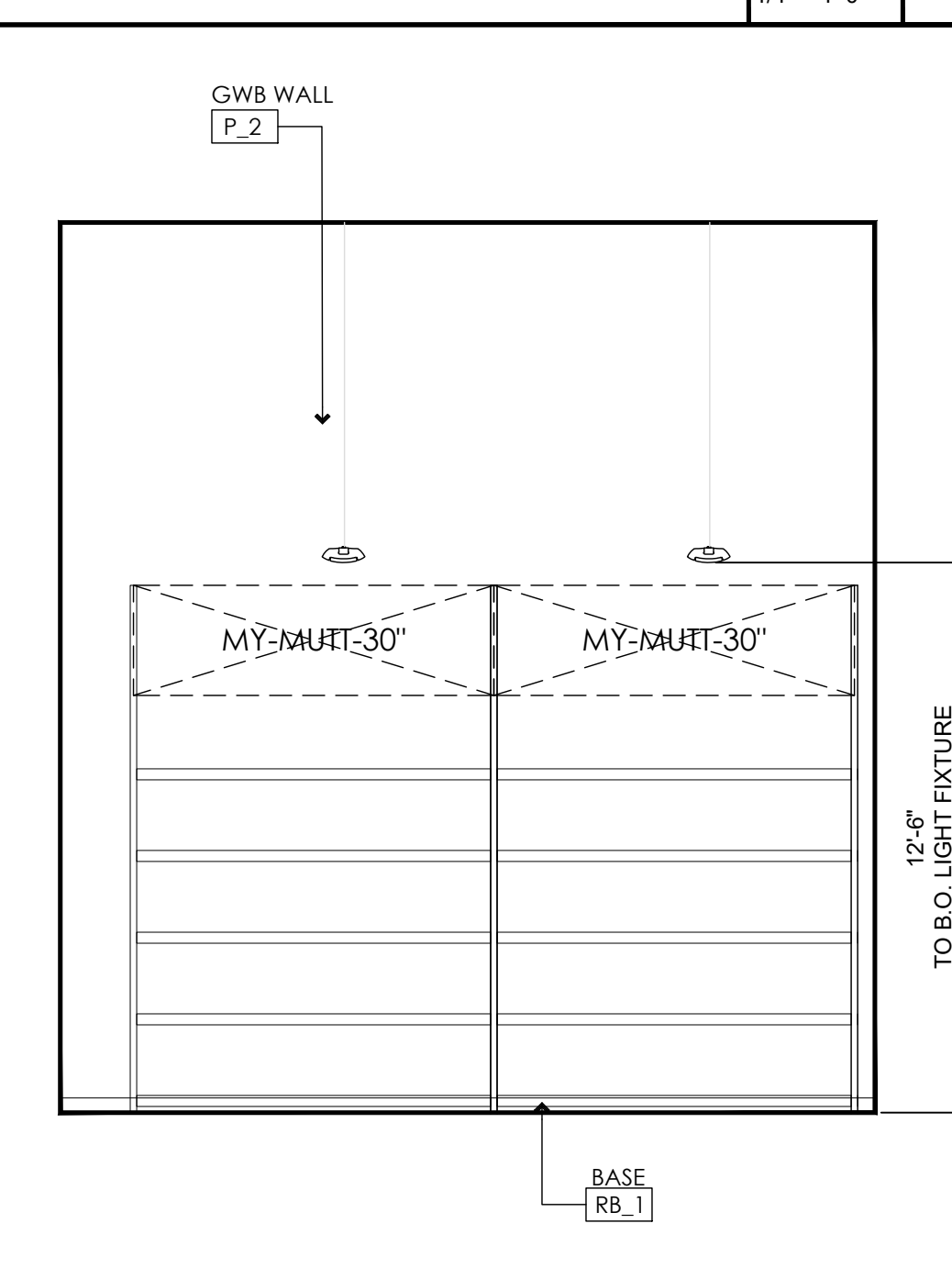
INTERIOR ELEVATION SCALE: 1/4" = 1'-0" 3



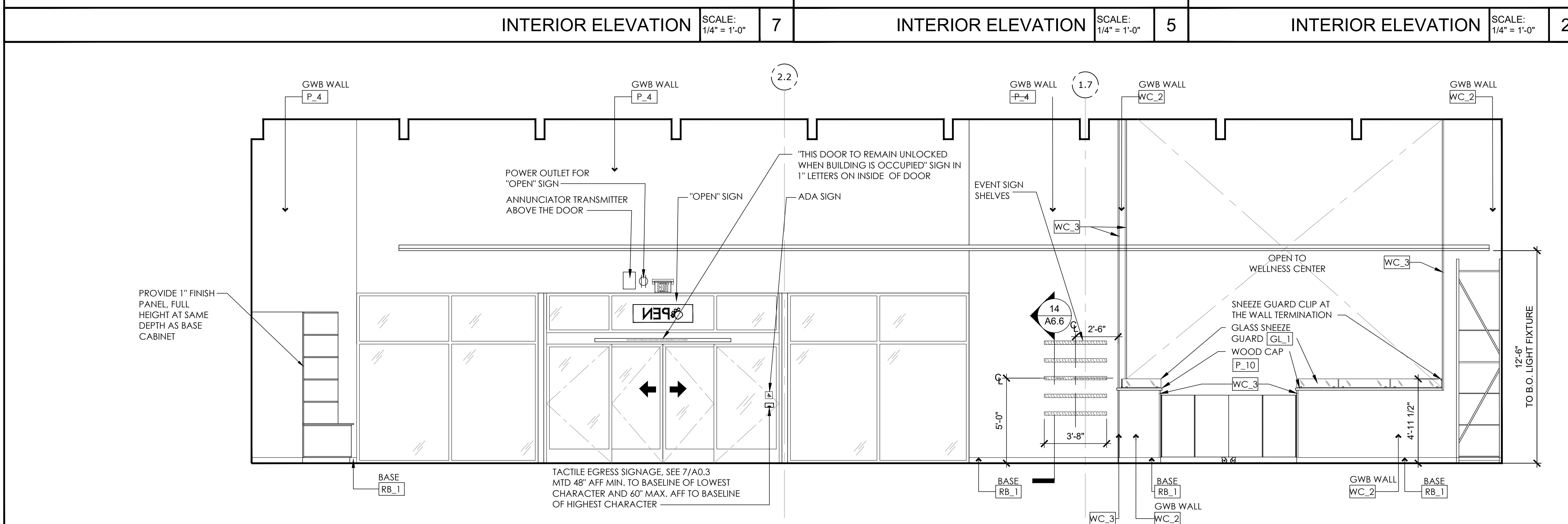
INTERIOR ELEVATION SCALE: 1/4" = 1'-0" 7



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

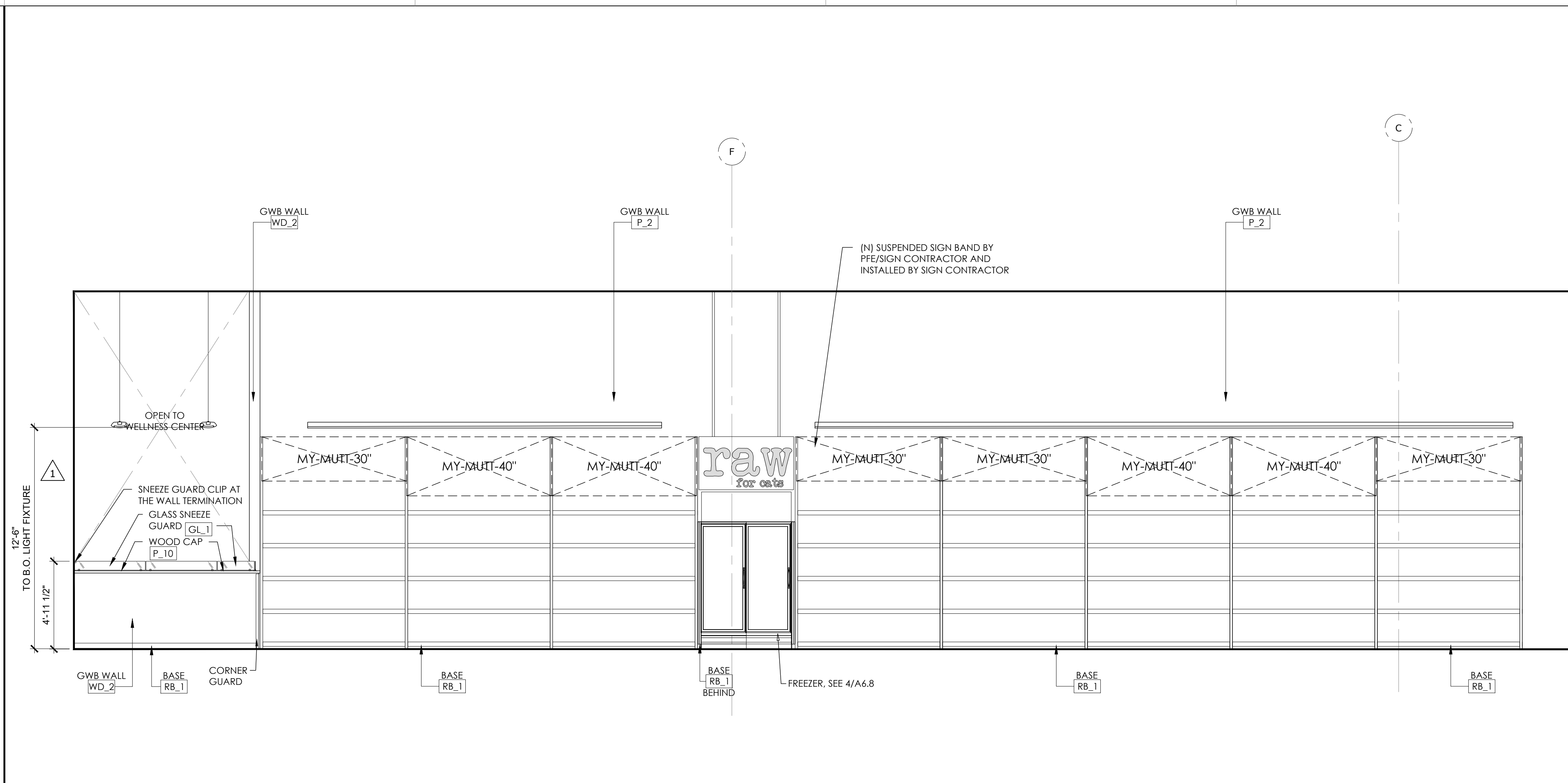


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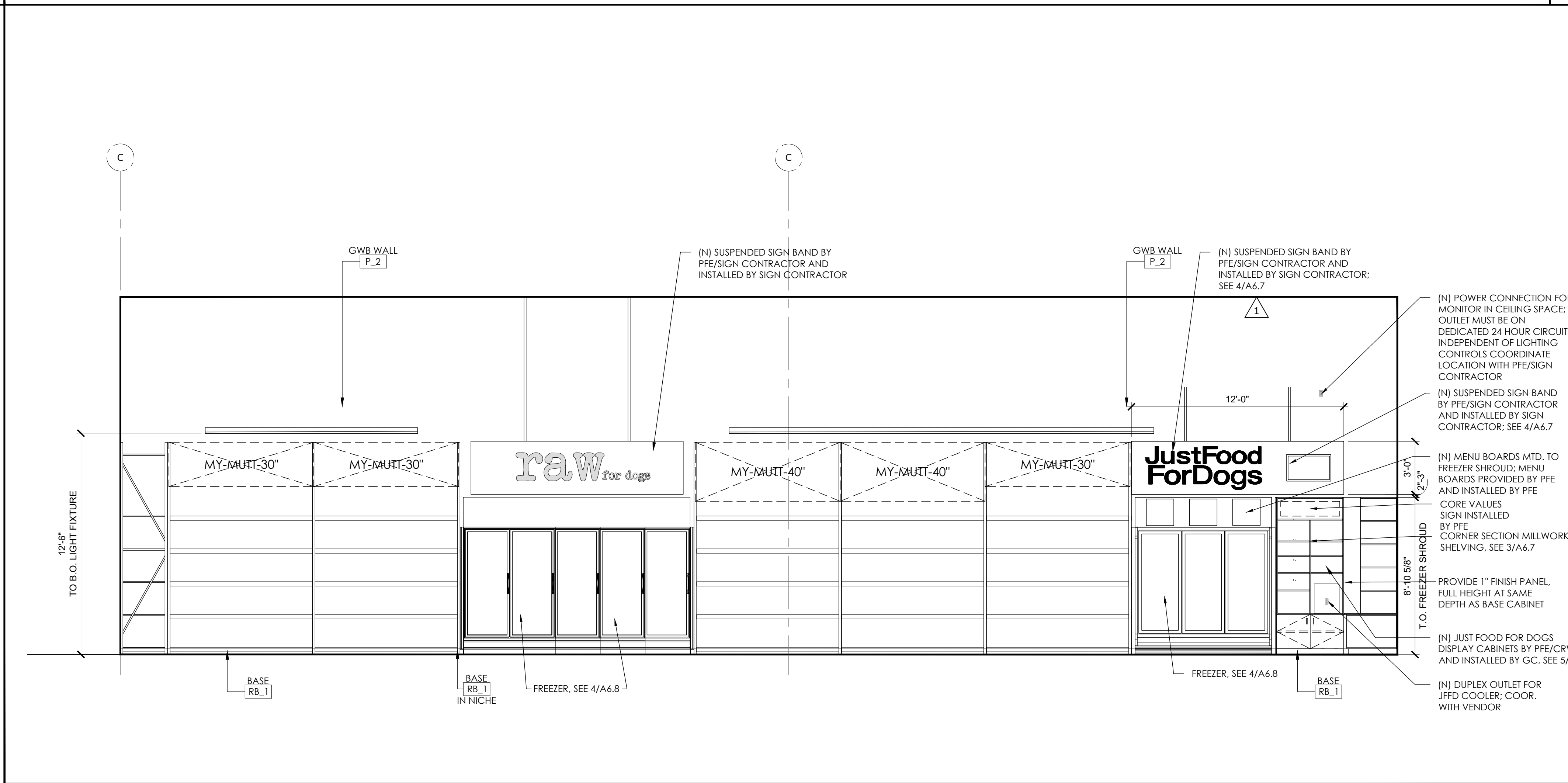


INTERIOR ELEVATION SCALE: 1/4" = 1'-0" 1





INTERIOR ELEVATION SCALE: 1/4" = 1'-0" 2



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

CLIENT

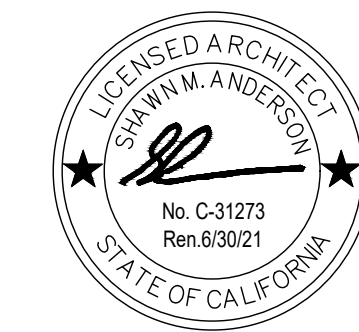


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	4.19.19	ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

PROJECT LOCATION

1 PET FOOD EXPRESS  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

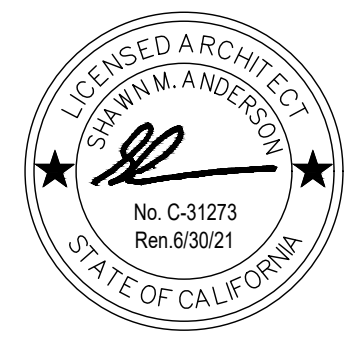
DRAWING TITLE

INTERIOR ELEVATIONS

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

A3.2





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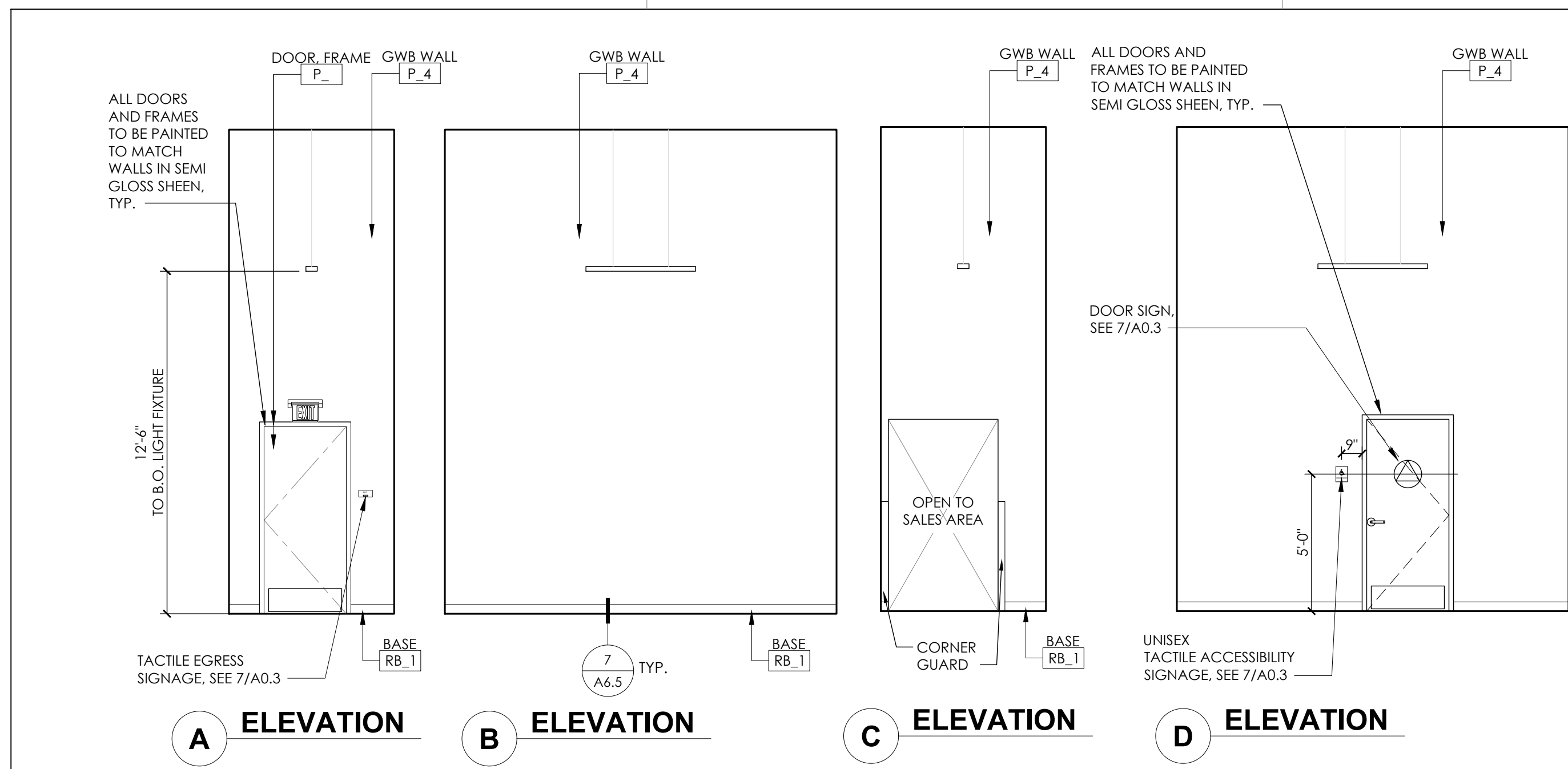
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9.13.19		BID SET

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Sacramento, CA 95822

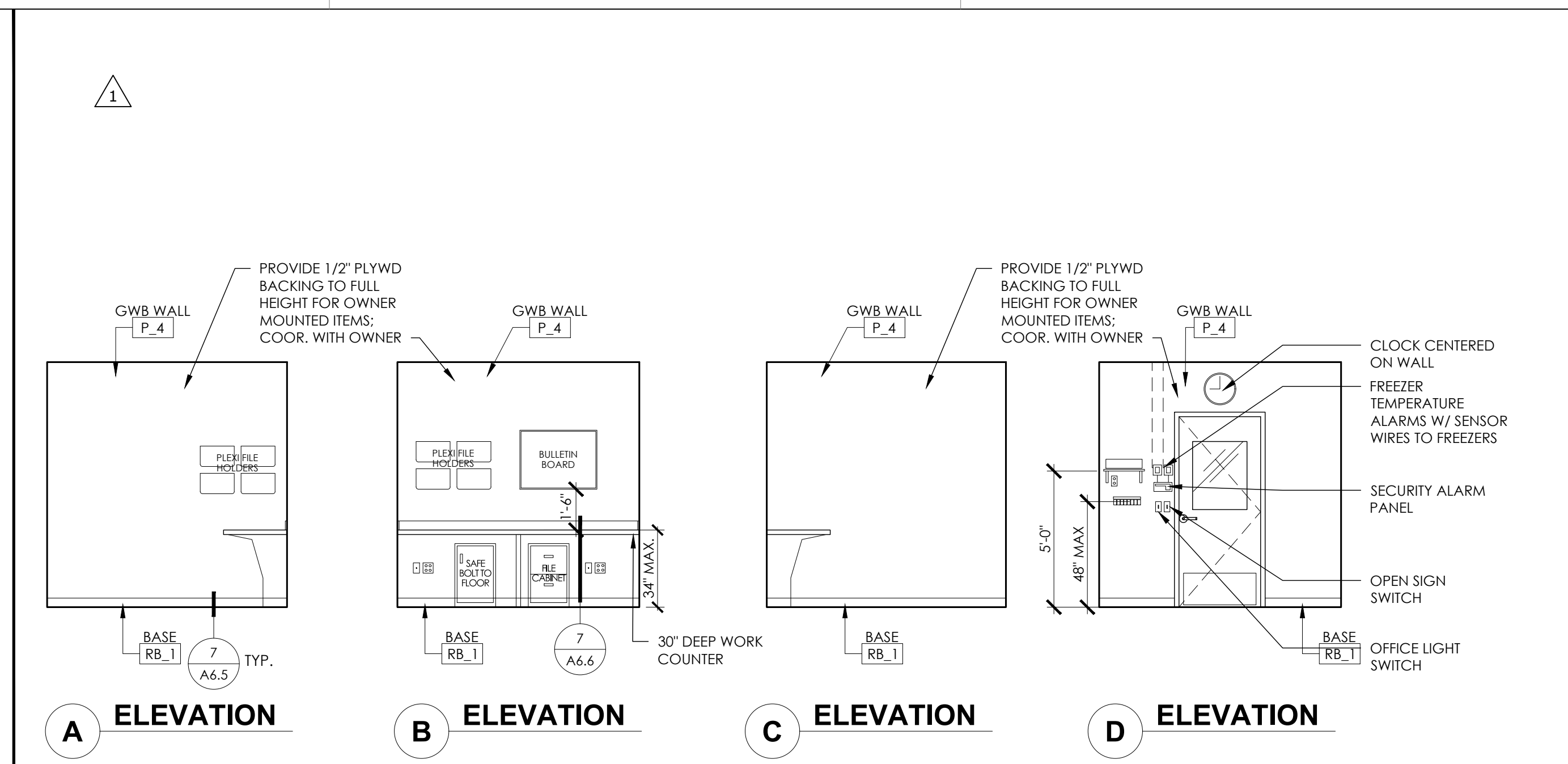
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PROJECT NUMBER: 18404  
SHEET NUMBER:

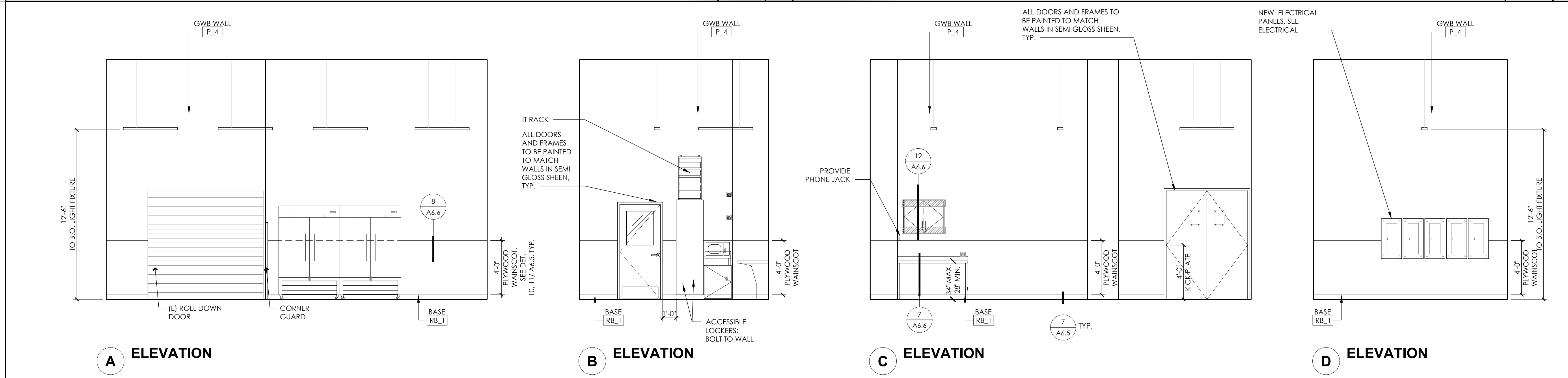
**A3.3**



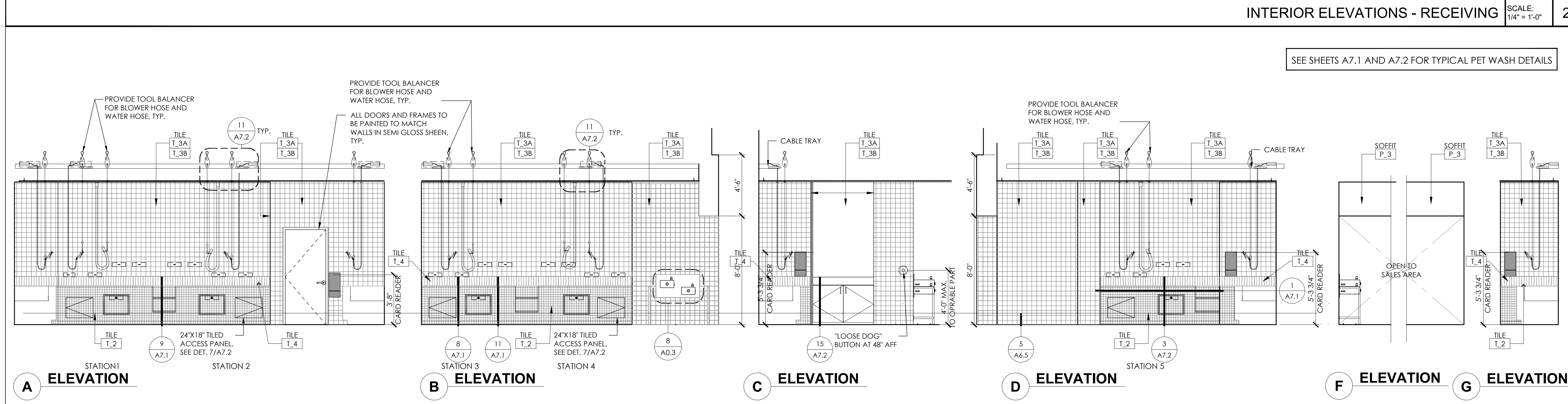
INTERIOR ELEVATIONS - CORRIDOR SCALE: 1/4" = 1'-0" 9



INTERIOR ELEVATIONS - OFFICE SCALE: 1/4" = 1'-0" 3

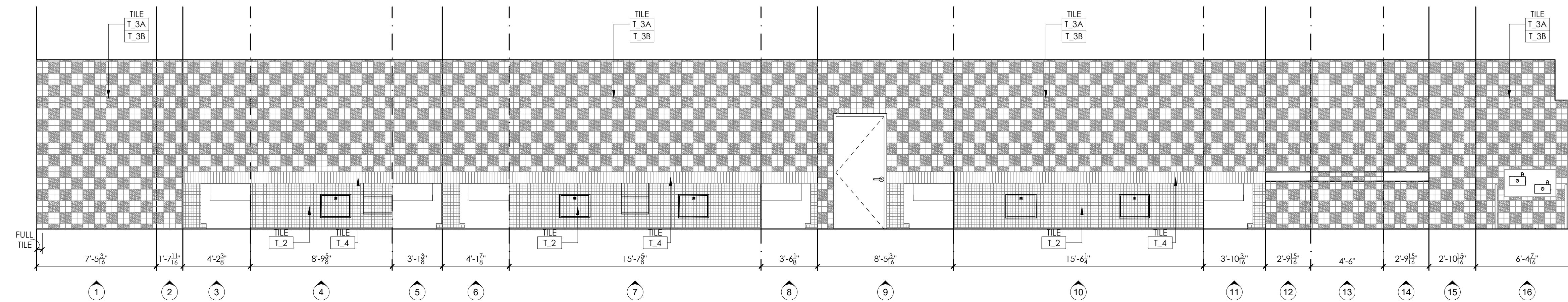


INTERIOR ELEVATIONS - RECEIVING SCALE: 1/4" = 1'-0" 2



INTERIOR ELEVATIONS - PET WASH SCALE: 1/4" = 1'-0" 1





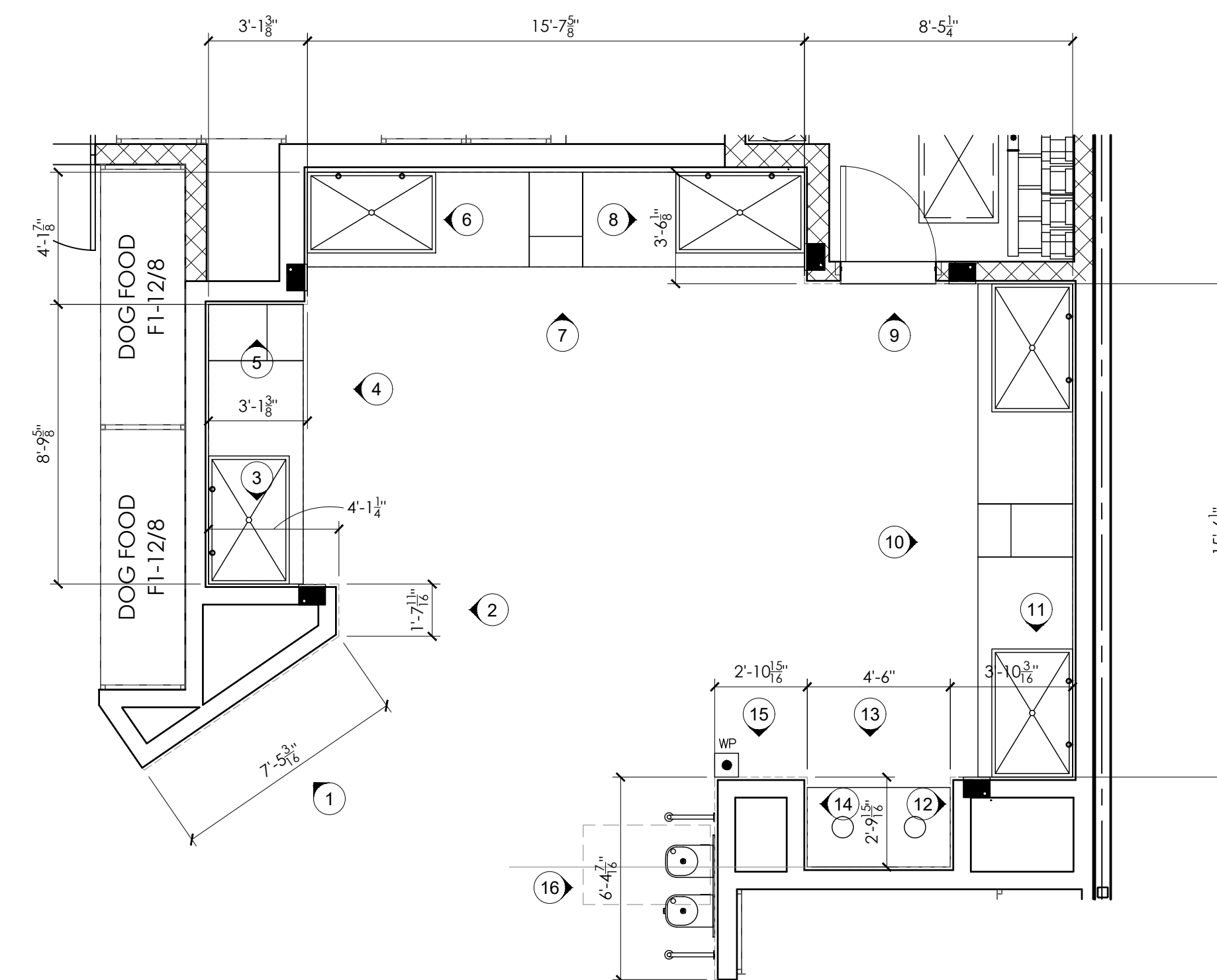
TILE PATTERN LAYOUT SHOWN FOR REFERENCE ONLY

**LEGEND**

- OUTSIDE CORNER
- - - - - INSIDE CORNER

INTERIOR ELEVATIONS - PET WASH UNFOLDED TILE PATTERN LAYOUT

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



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INTERIOR ELEVATIONS - PET WASH UNFOLDED TILE PATTERN LAYOUT

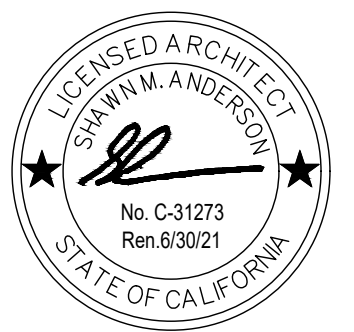
SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

**A3.3A**

PET WASH ENLARGED PLAN

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





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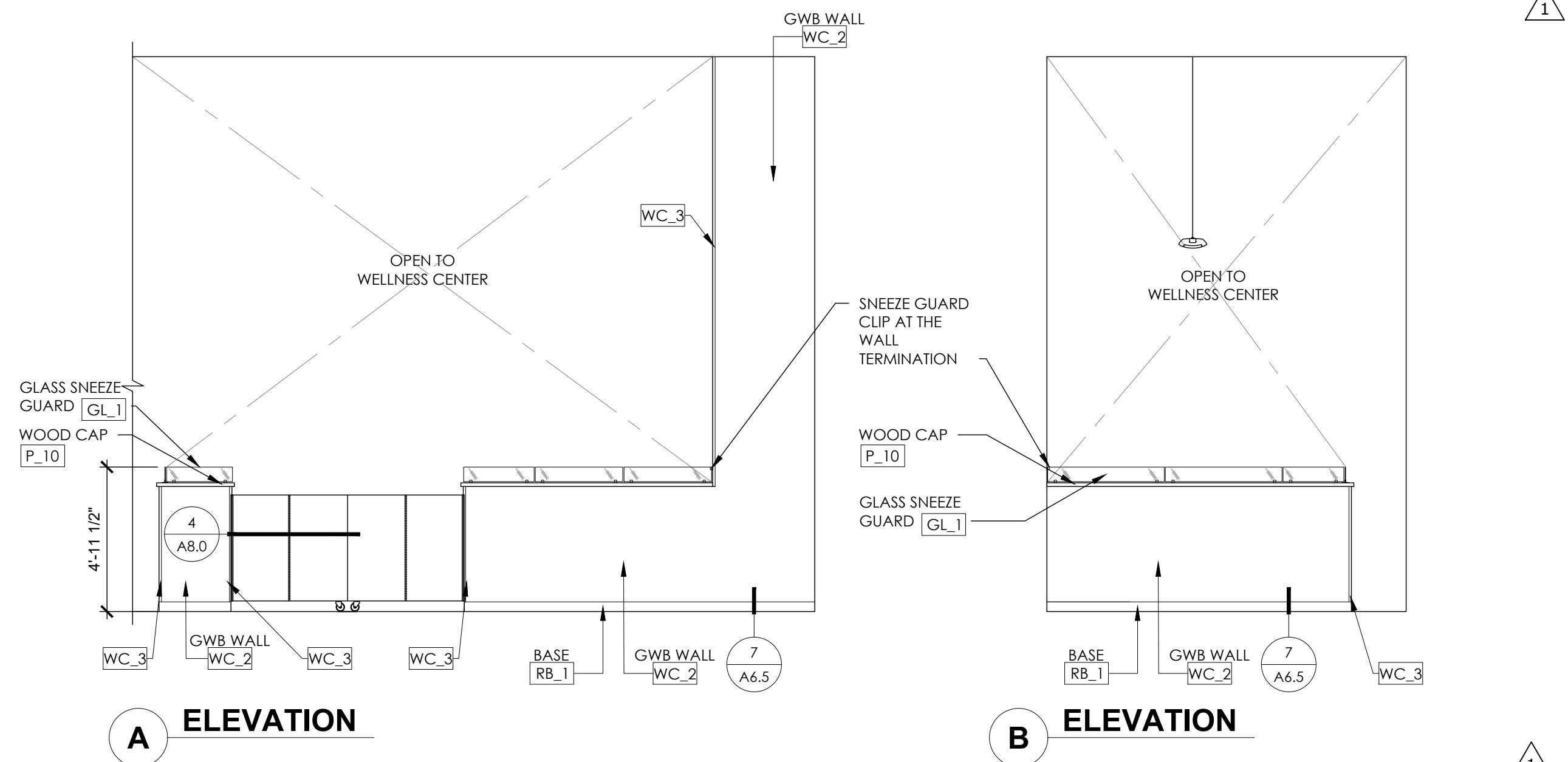
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INTERIOR ELEVATIONS

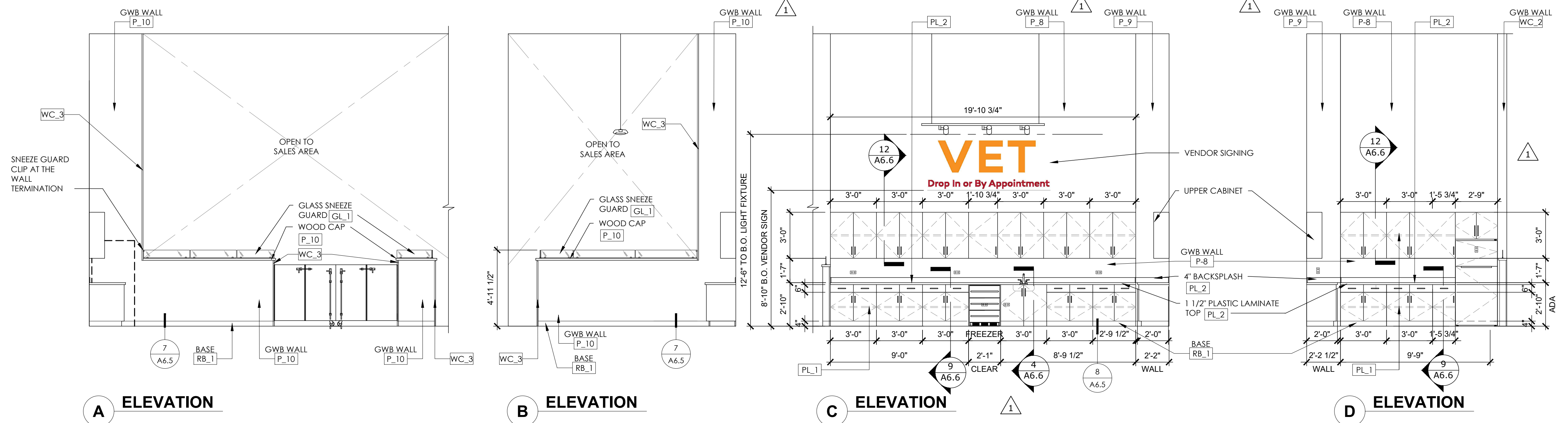
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SHEET NUMBER:

A3.4



INTERIOR ELEVATIONS - WELLNESS CENTER

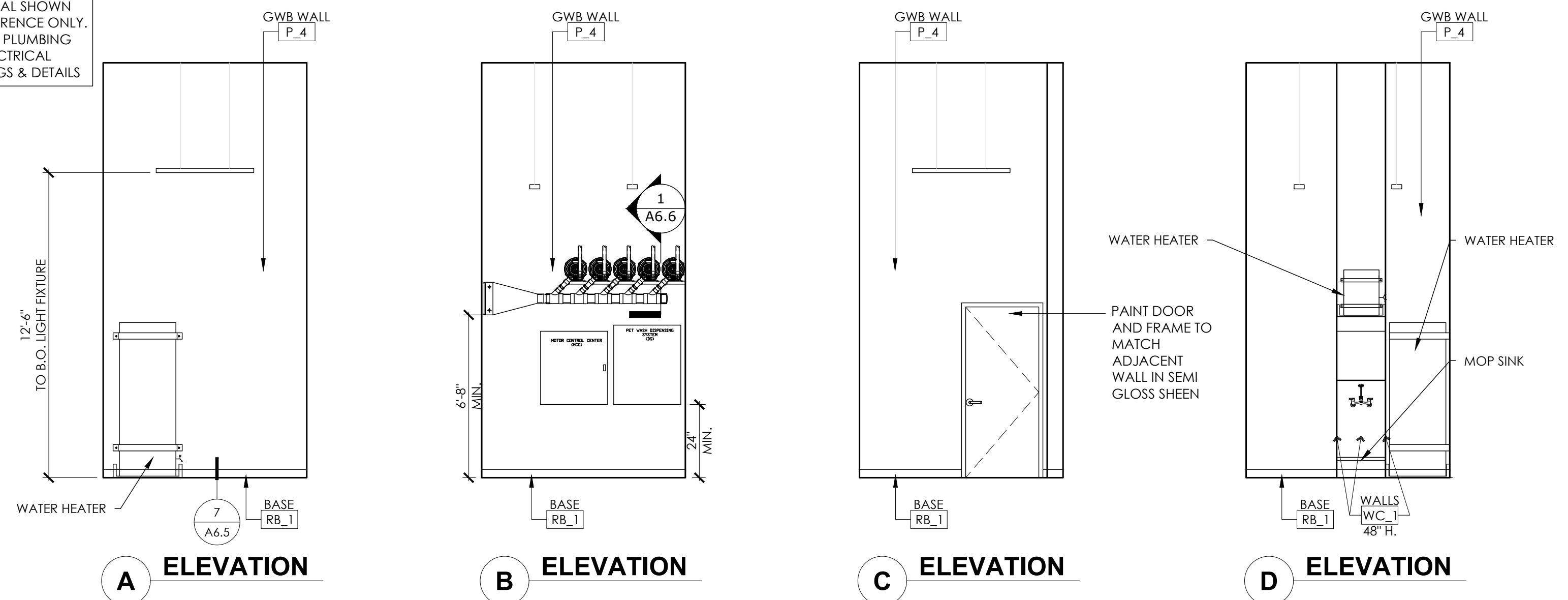
SCALE: 1/4" = 1'-0" 3



INTERIOR ELEVATIONS - WELLNESS CENTER

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

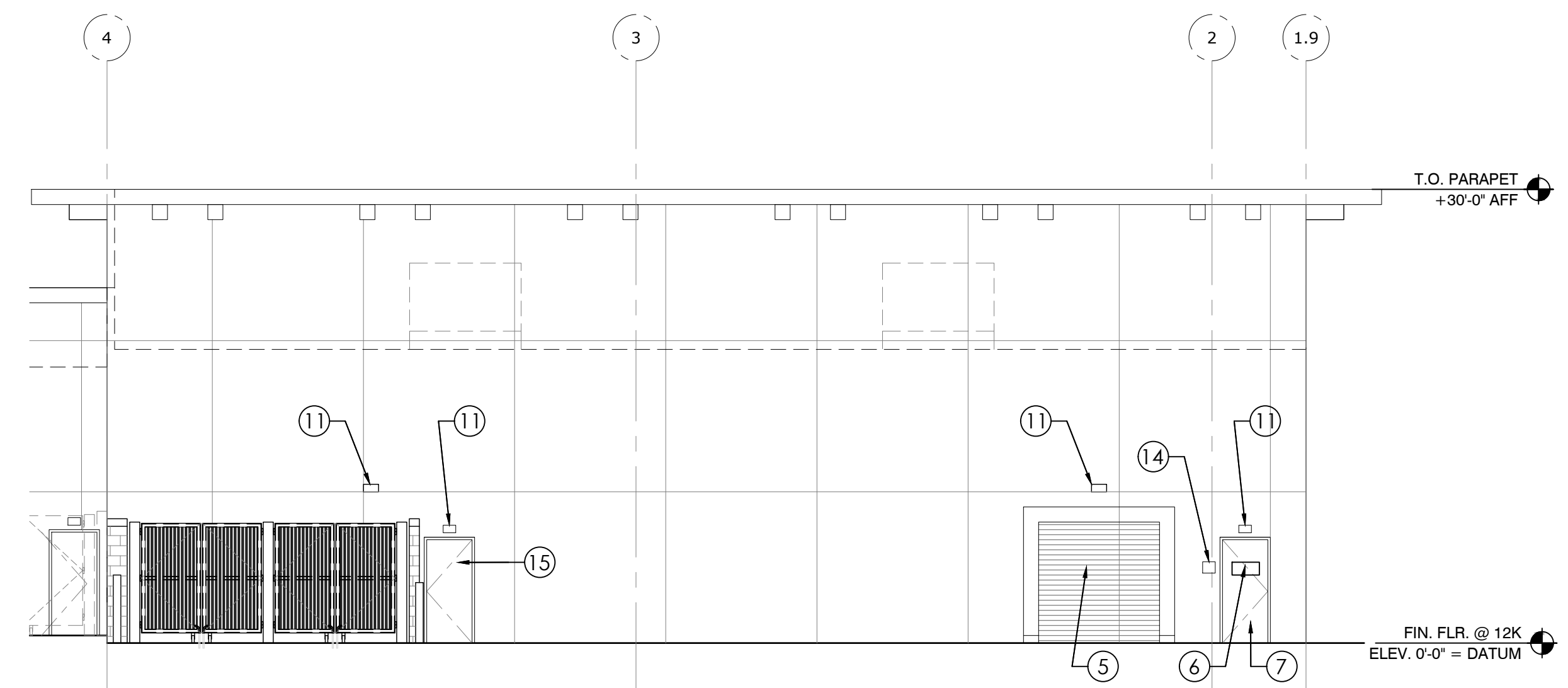
NOTE: PLUMBING AND ELECTRICAL SHOWN FOR REFERENCE ONLY. REFER TO PLUMBING AND ELECTRICAL DRAWINGS & DETAILS



INTERIOR ELEVATIONS - UTILITY

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





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

- 1 SIGNAGE, UNDER SEPARATE PERMIT, FOR REFERENCE ONLY
- 2 [E] SLIDING ALUMINUM STOREFRONT SYSTEM. SEE DOOR SCHEDULE FOR ADDITIONAL SCOPE
- 3 [E] STOREFRONT WINDOWS
- 4 PROVIDE ON ALL STOREFRONT GLAZING, VISTA SPECTRA SELECT V61 WINDOW FILM; COORDINATE W/ AD ART GRAPHICS AND INSTALL PRIOR TO RACKING INSTALLATION. TYP
- 5 [E] RECEIVING ROLL UP METAL DOOR
- 6 LOCATION OF BUILDING NUMBER PER FIRE DEPARTMENT REQUIREMENTS BY LL
- 7 [E] BACK DOOR.
- 8 [E] METAL CANOPY
- 9 [N] EXTERIOR HOSE BIB WITH LOCKABLE COVER. SEE PLUMBING DRAWINGS. SEE DETAIL 3/A6.6
- 10 [E] EXTERIOR DECORATIVE FRAME.
- 11 [E] EXTERIOR LED WALL LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS
- 12 KNOX BOX BY LL
- 13 EXTERIOR ELECTRICAL OUTLET WITH LOCKABLE COVER. SEE ELECTRICAL DRAWINGS
- 14 INTERNATIONAL SYMBOL OF ACCESSIBILITY CONFORMING TO 11B-703.7.2.1 CBC 2016 AT EXTERIOR DOOR. SEE DETAIL 7/A0.3.
- 15 EXISTING DOOR TO ADJACENT TENANT.
- 16 EXISTING EXTERIOR WALL FINISH TO REMAIN.
- 17 TERRA BOUND SOLUTION METAL PEDESTAL PET FOUNTAIN - 56-9000-66-SS
- 18 NEW OPEN SIGN.

CLIENT

ARCHITECT

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NO.	DATE	REVISION NAME
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6.10.19		REVISION 1
9.13.19		BID SET

PROJECT LOCATION

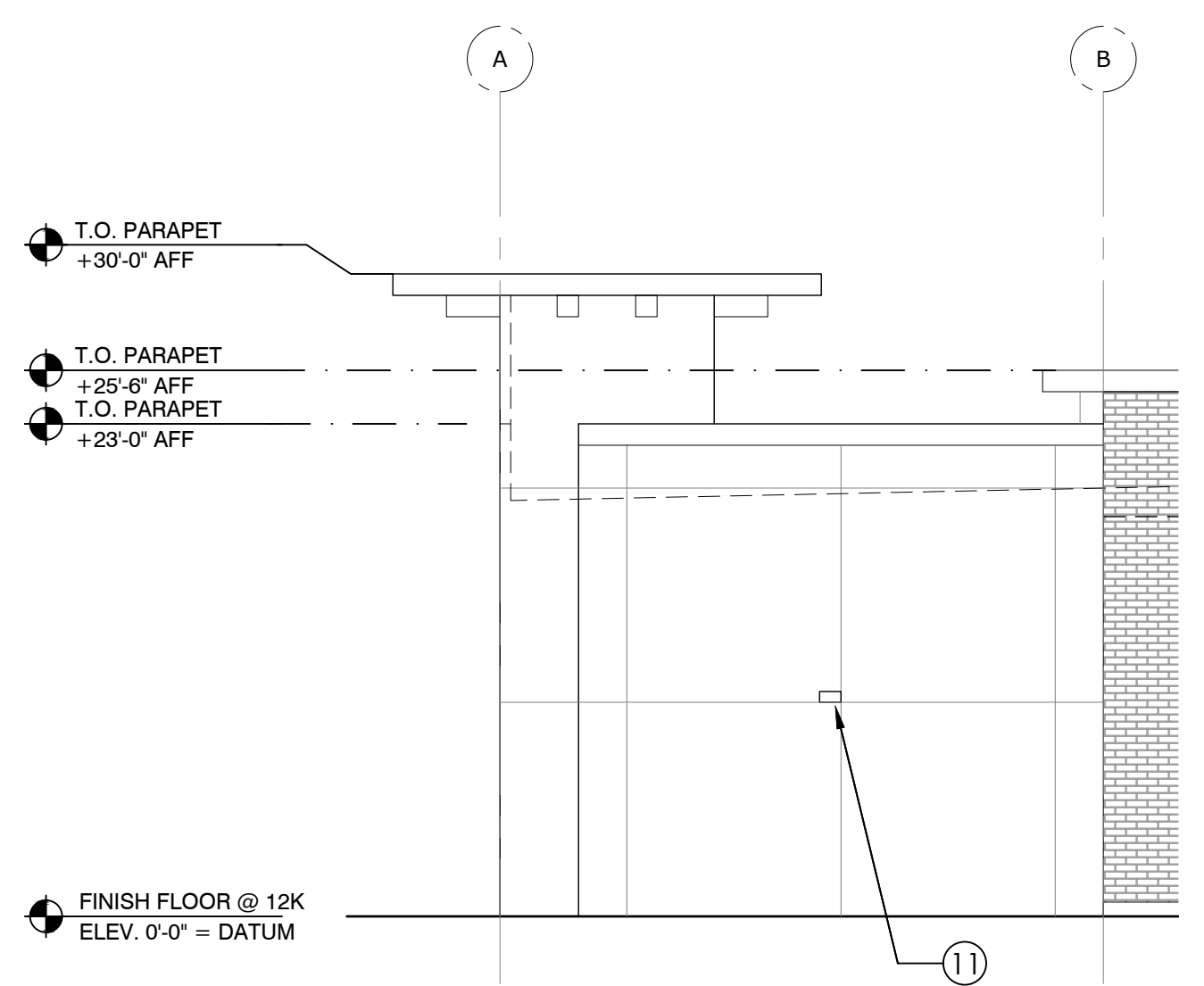
1 PET FOOD EXPRESS  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

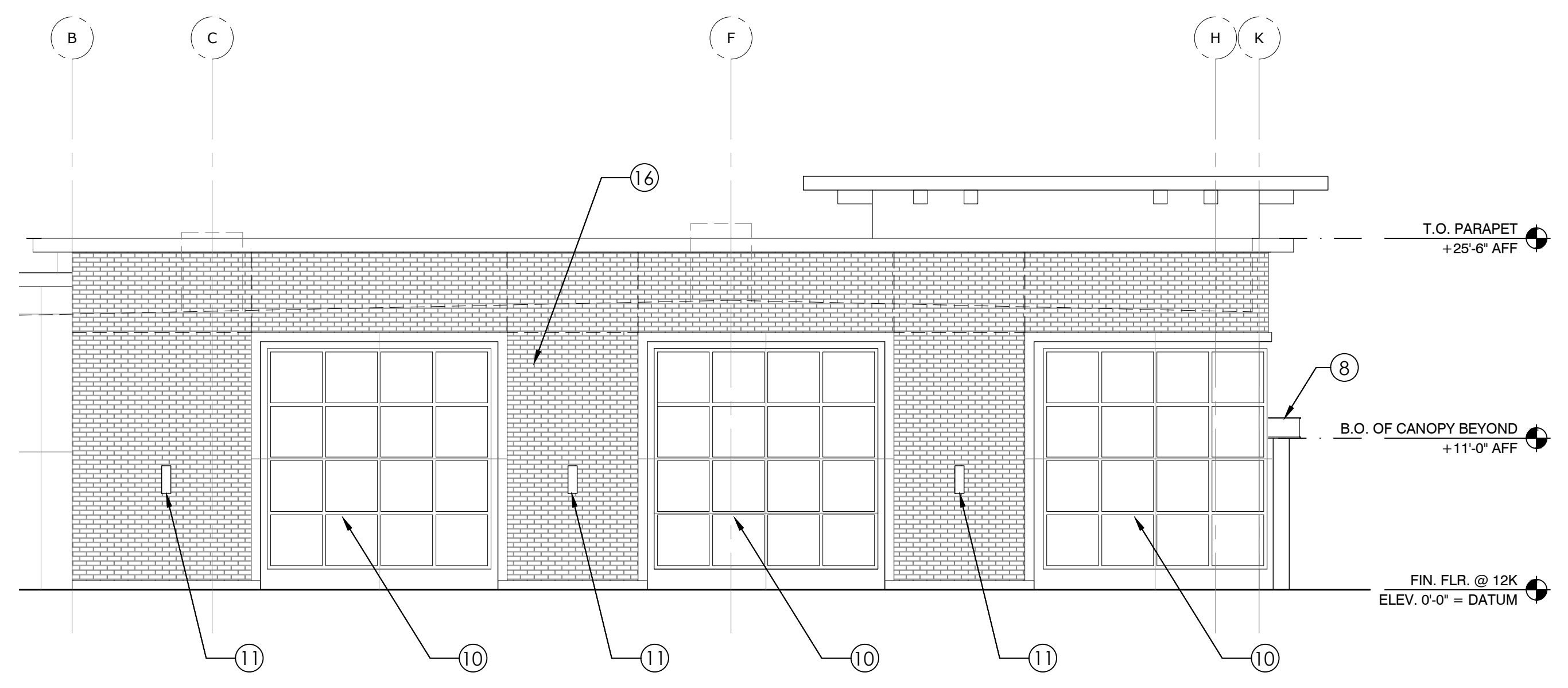
EXTERIOR ELEVATIONS

SCALE: AS NOTED  
 PROJECT NUMBER: 18404  
 SHEET NUMBER:

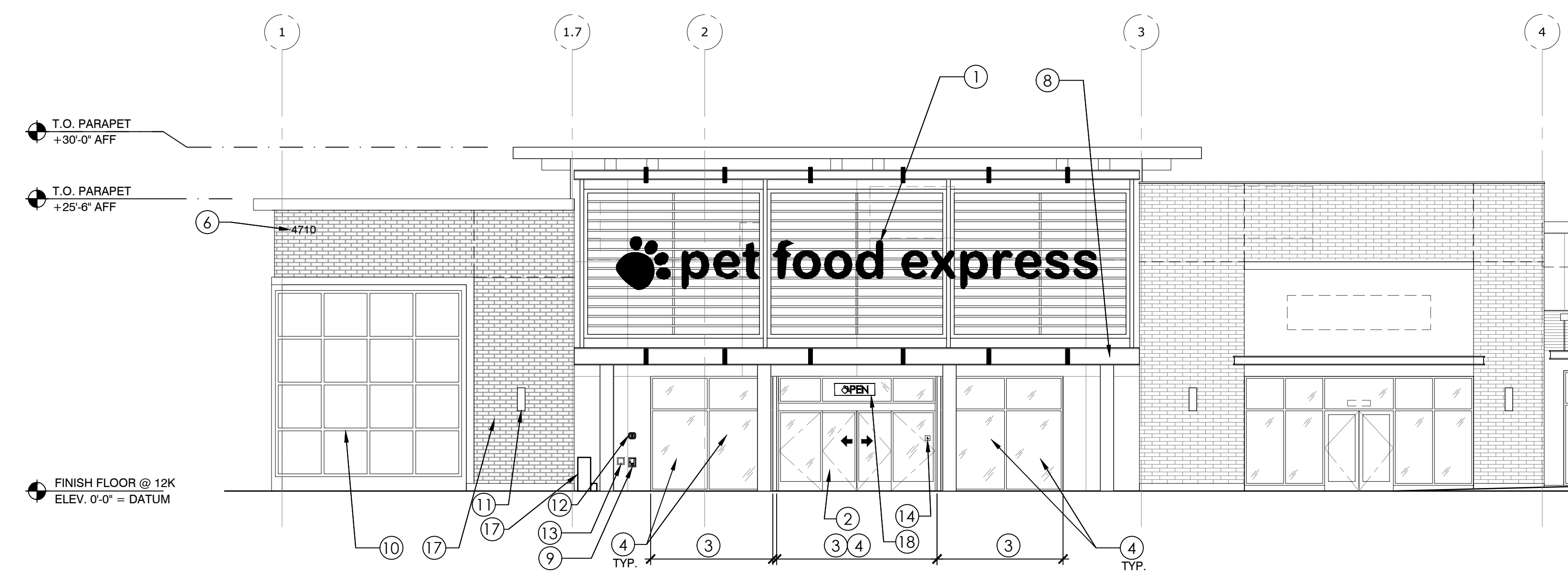
A4.0



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



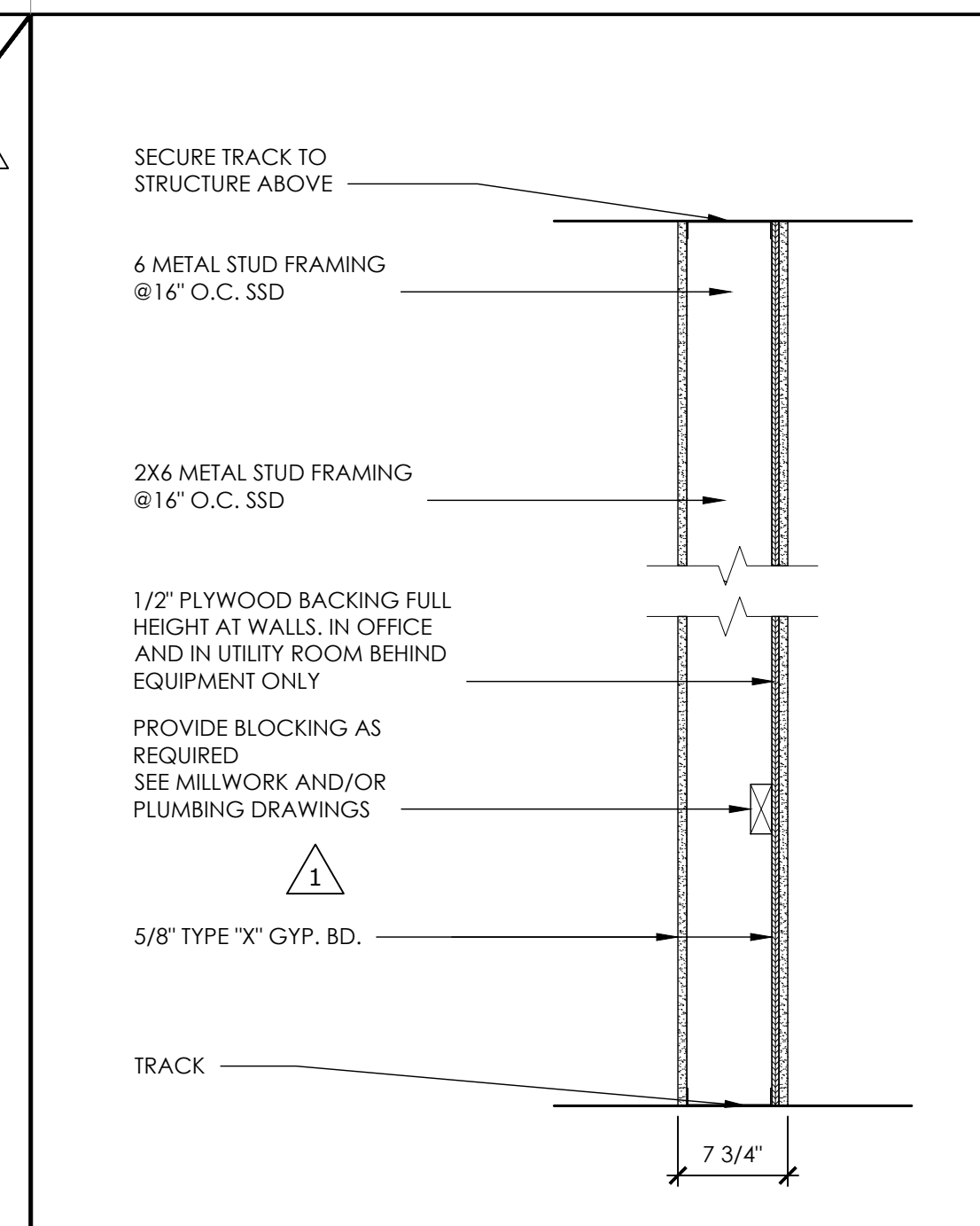
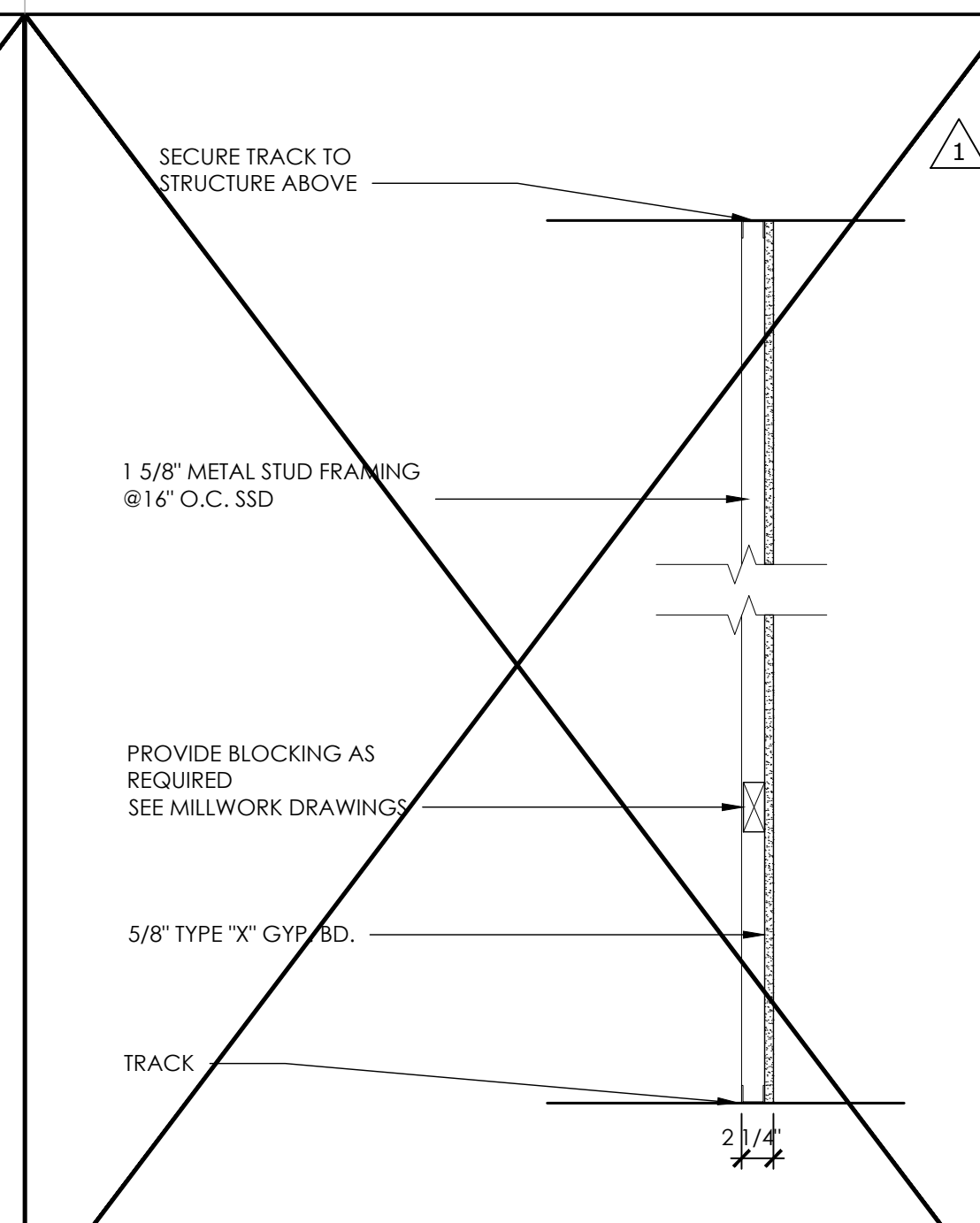
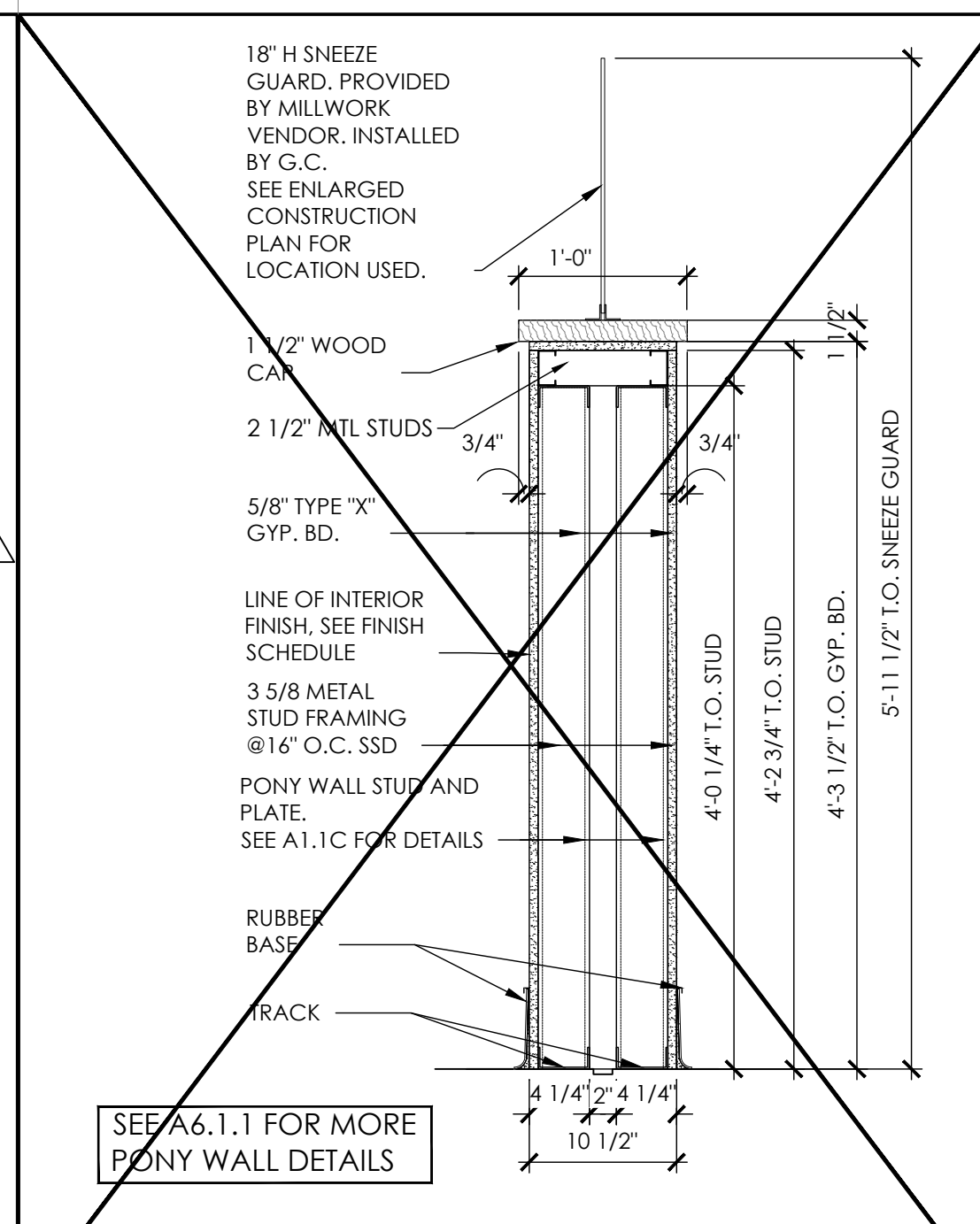
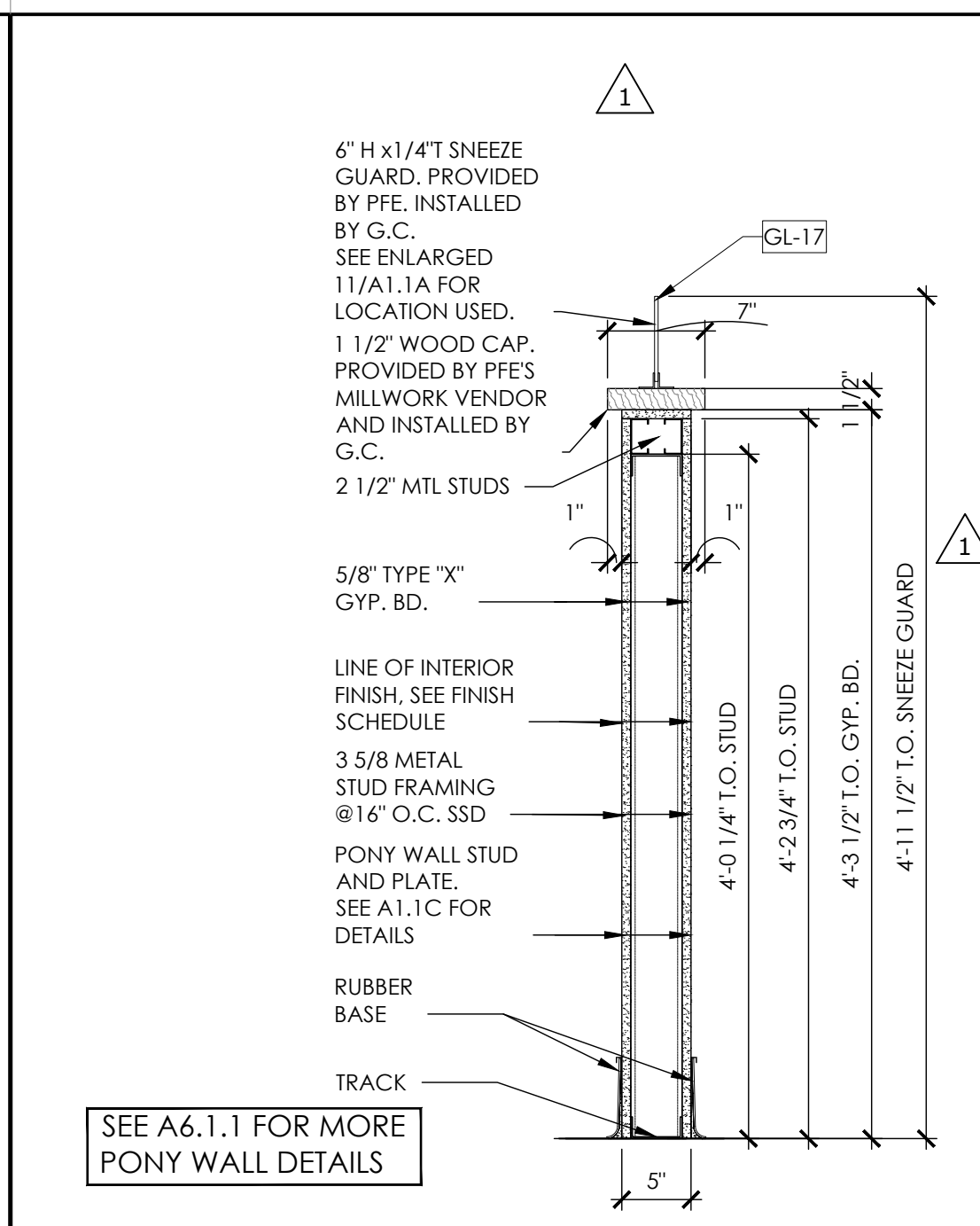
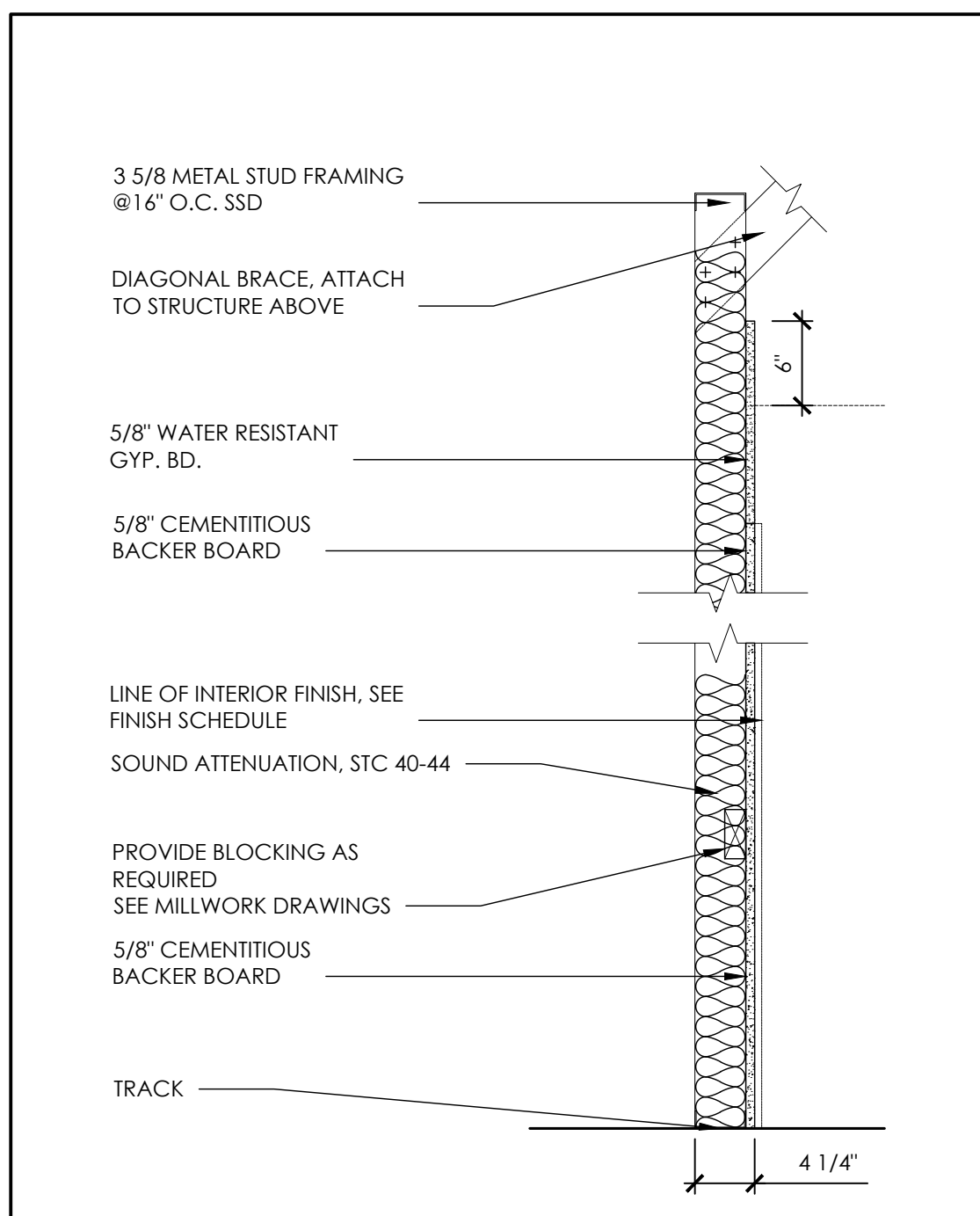
EXTERIOR ELEVATION SCALE: 1/8" = 1'-0" 5A



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

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





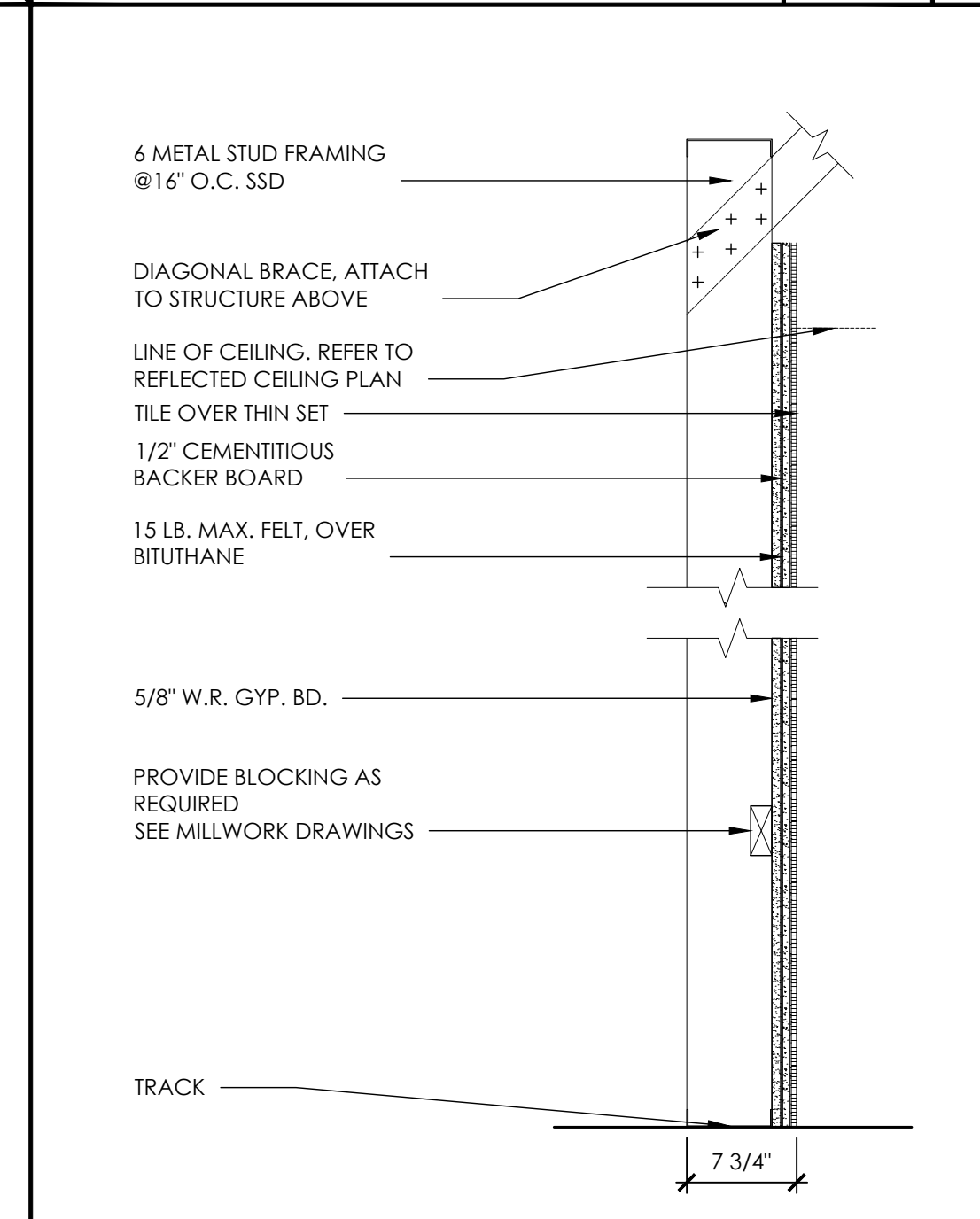
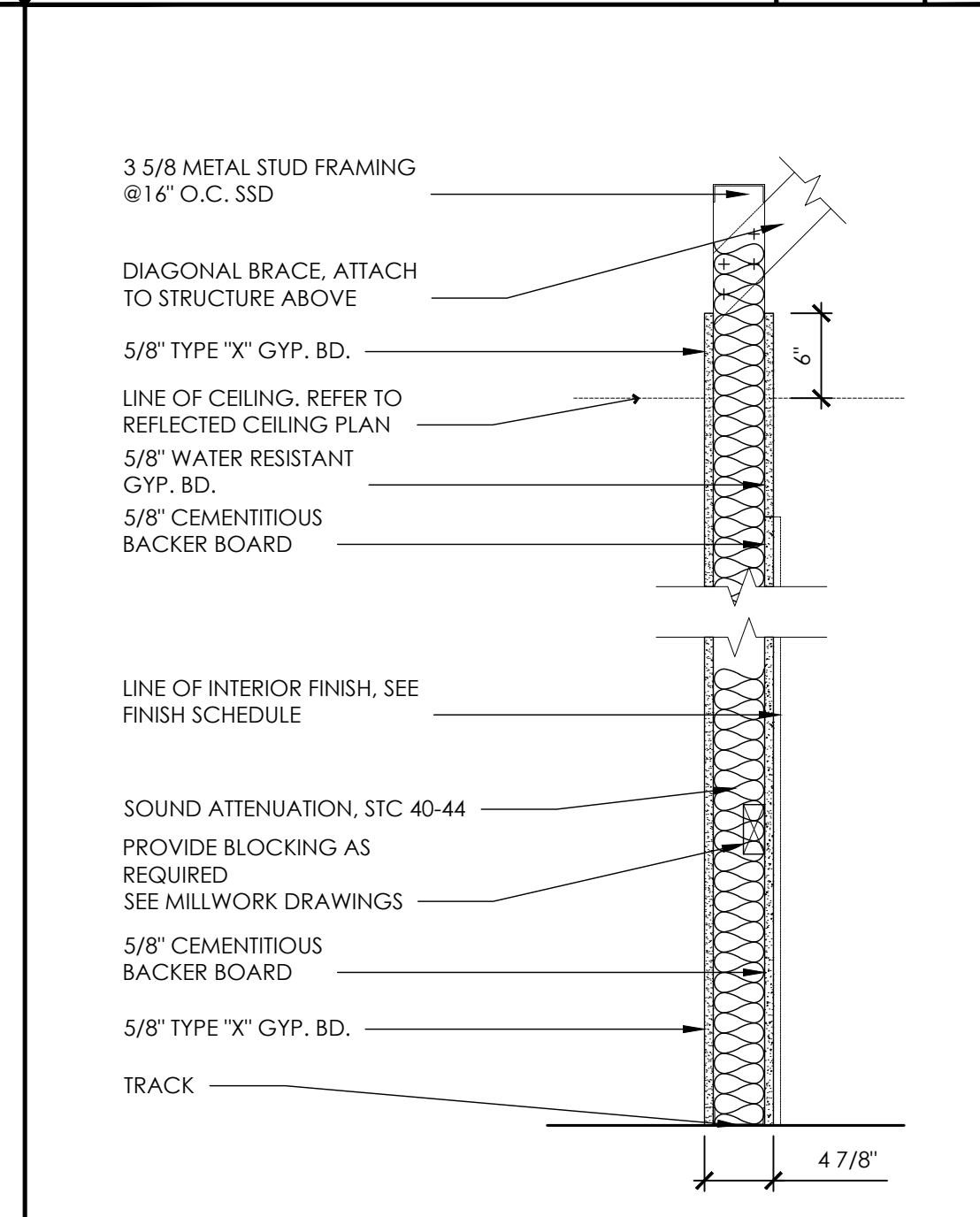
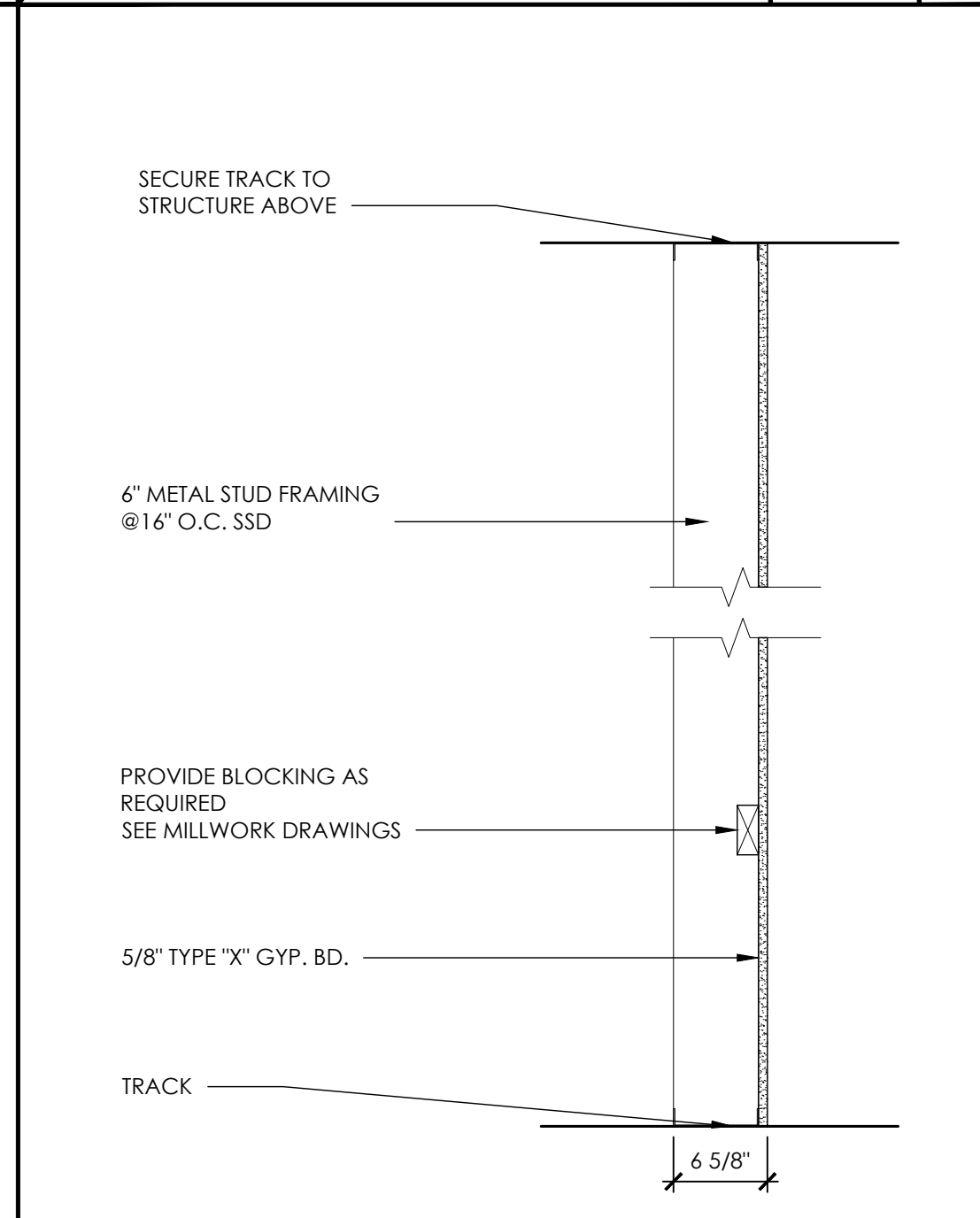
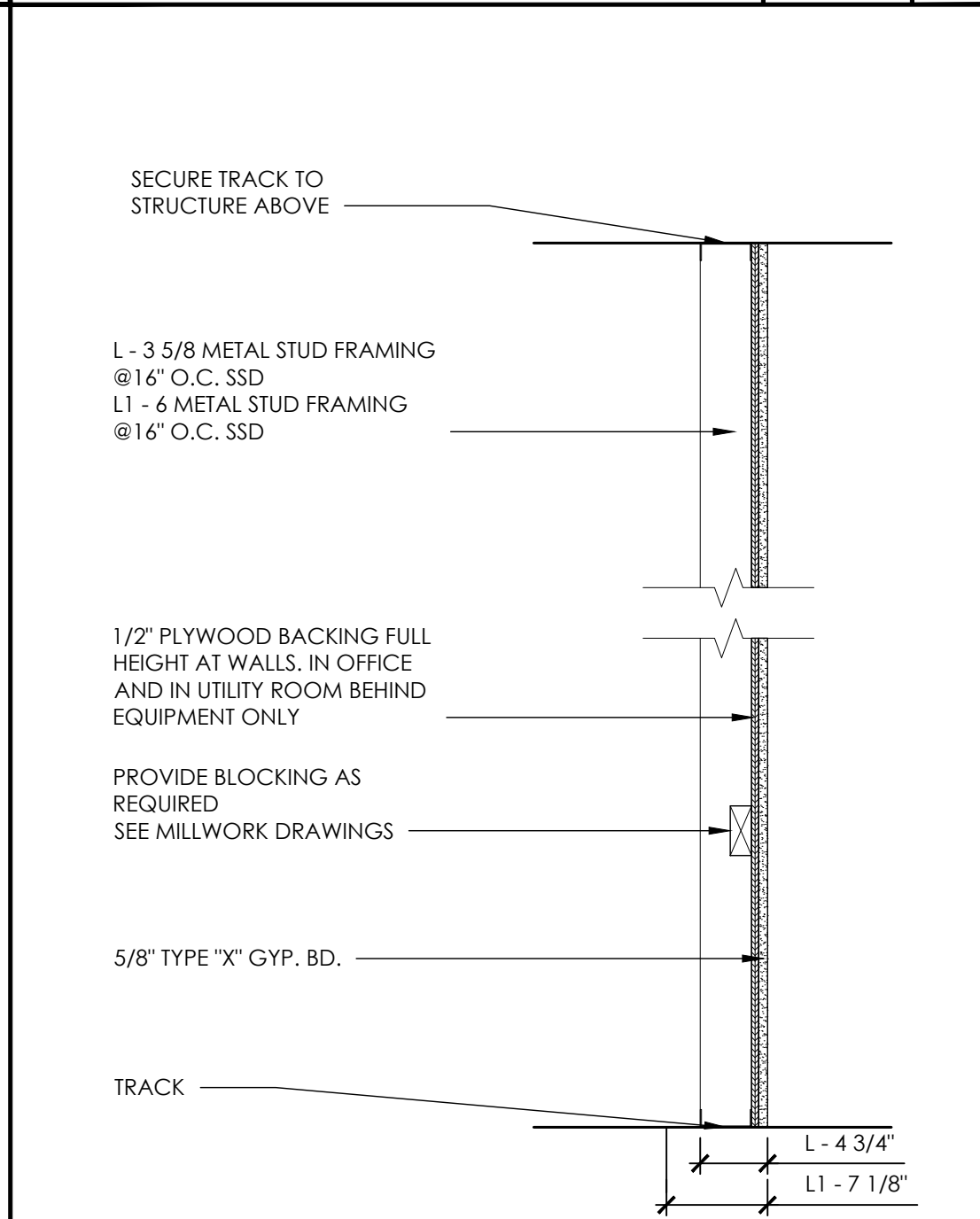
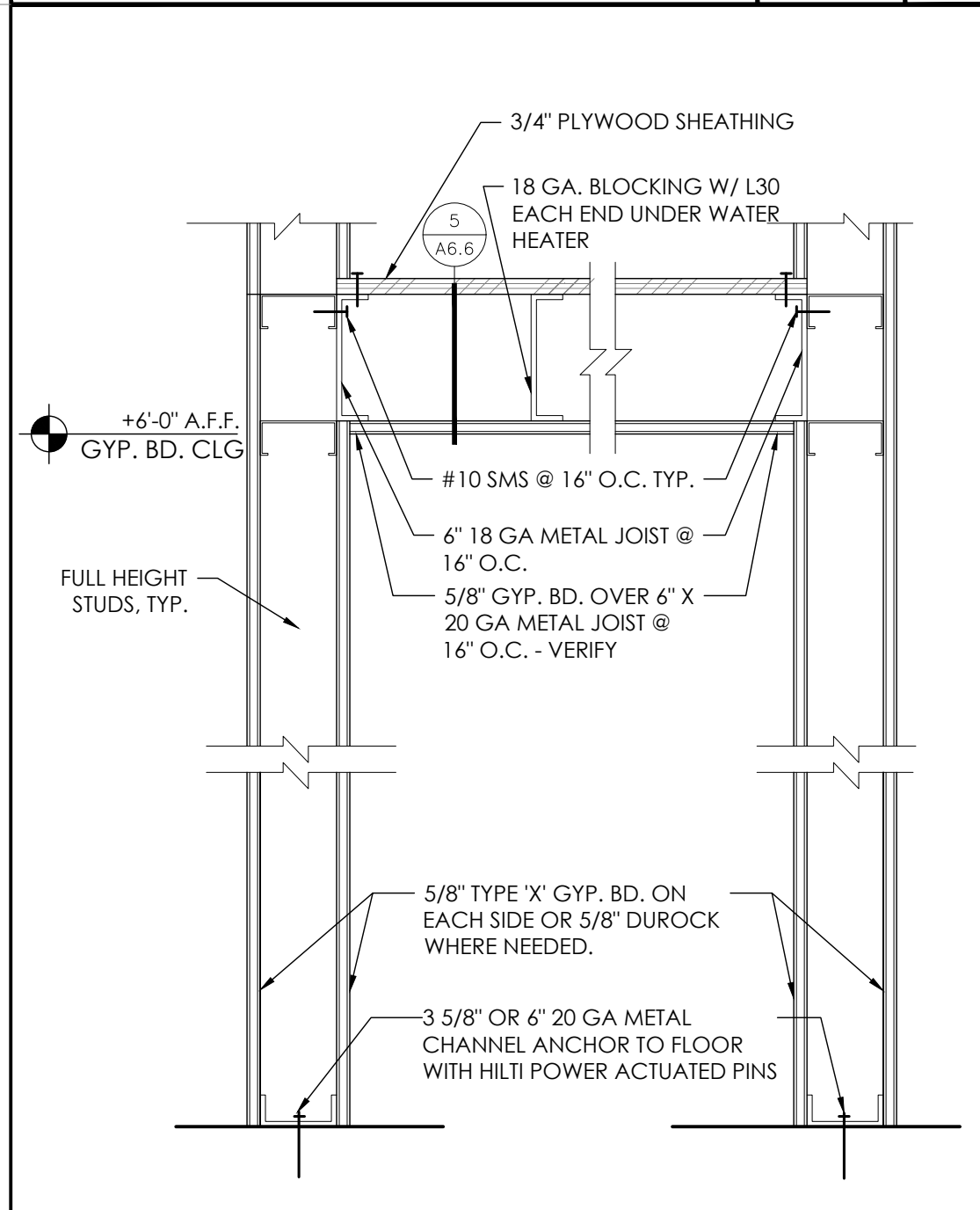
INTERIOR MTL FURRING WALL SCALE: 1" = 1'-0" Q

INTERIOR LOW WALL SCALE: 1" = 1'-0" M

NOT USED SCALE: 1" = 1'-0" J

NOT USED SCALE: 1" = 1'-0" F

INTERIOR MTL FRAME WALL SCALE: 1" = 1'-0" C



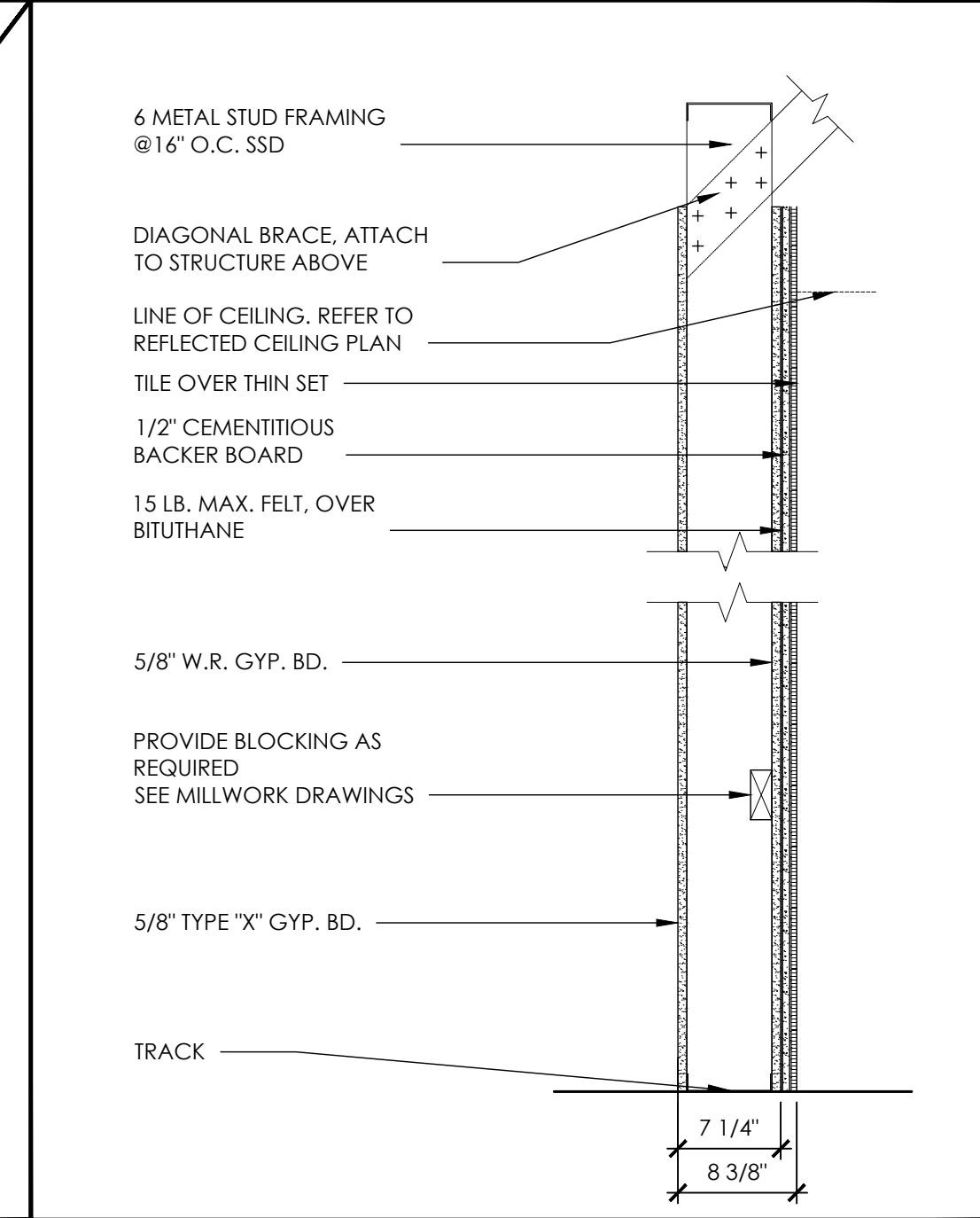
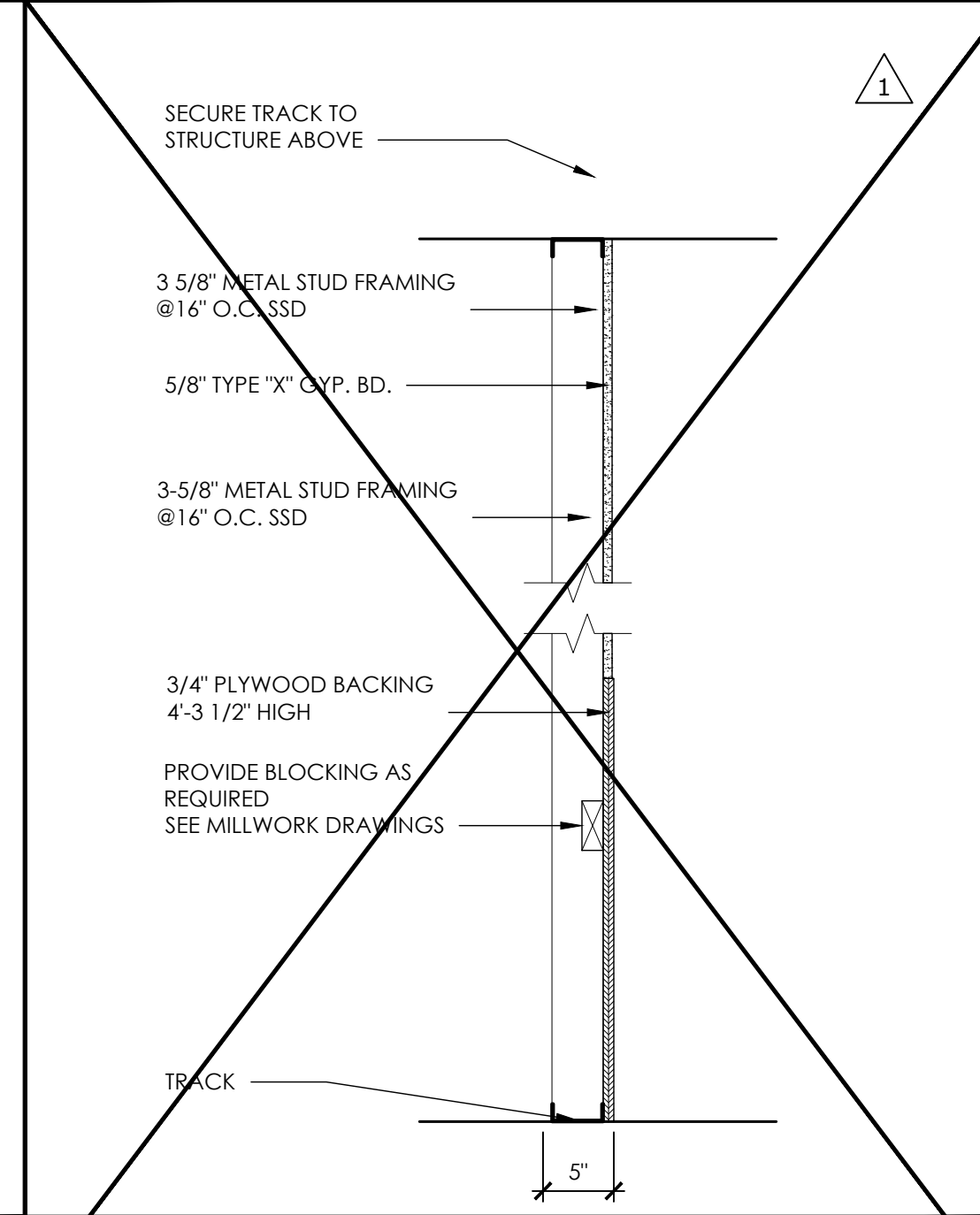
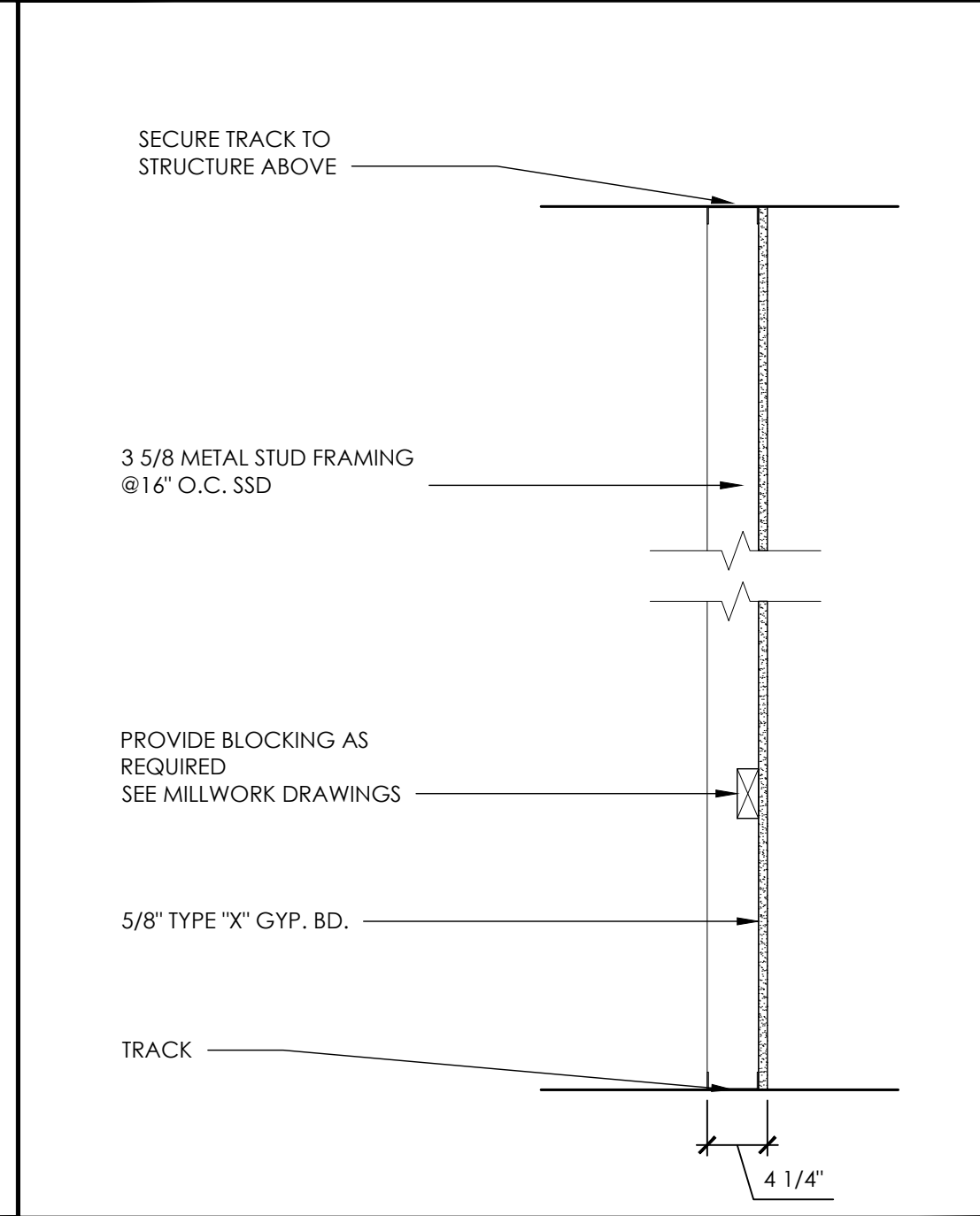
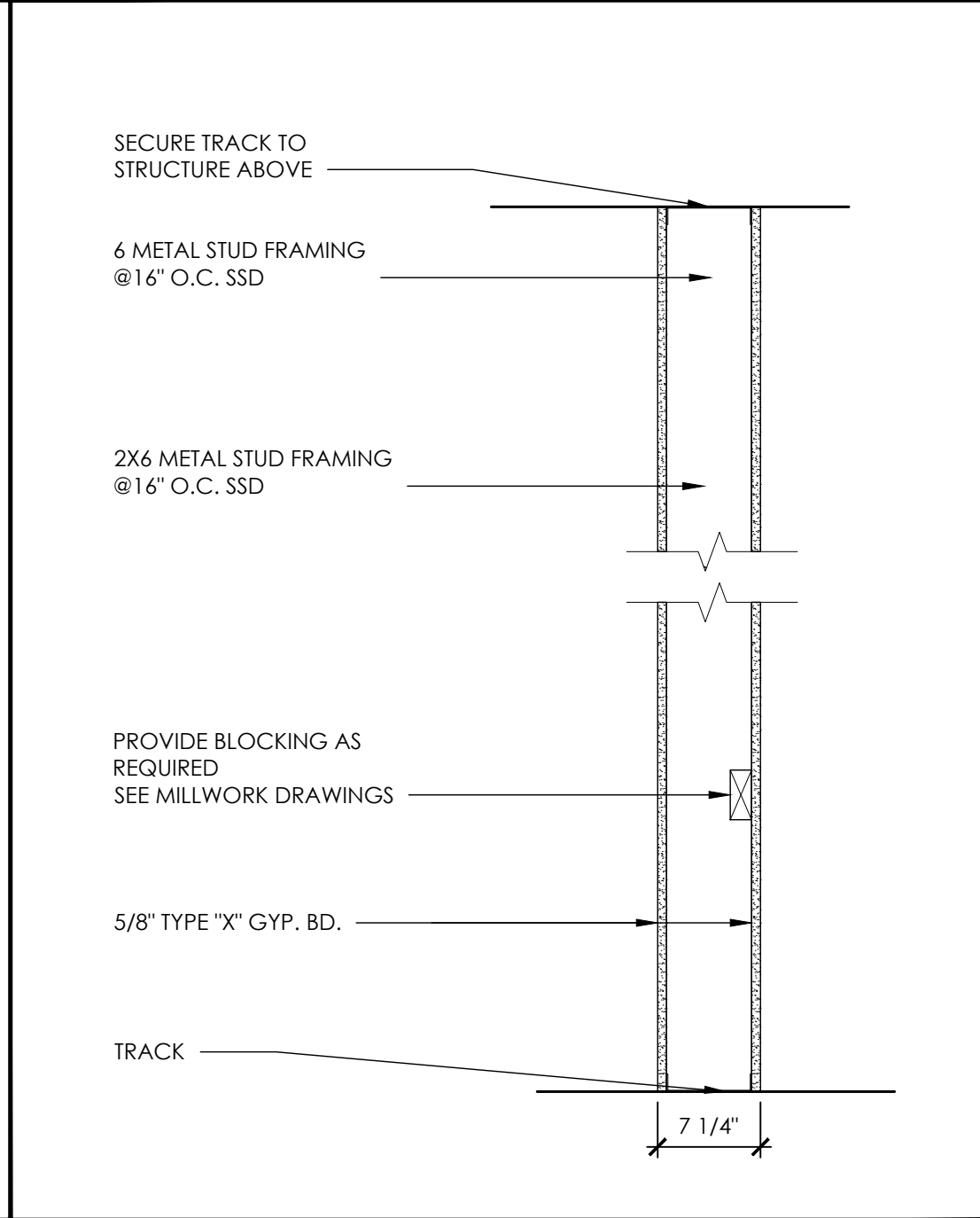
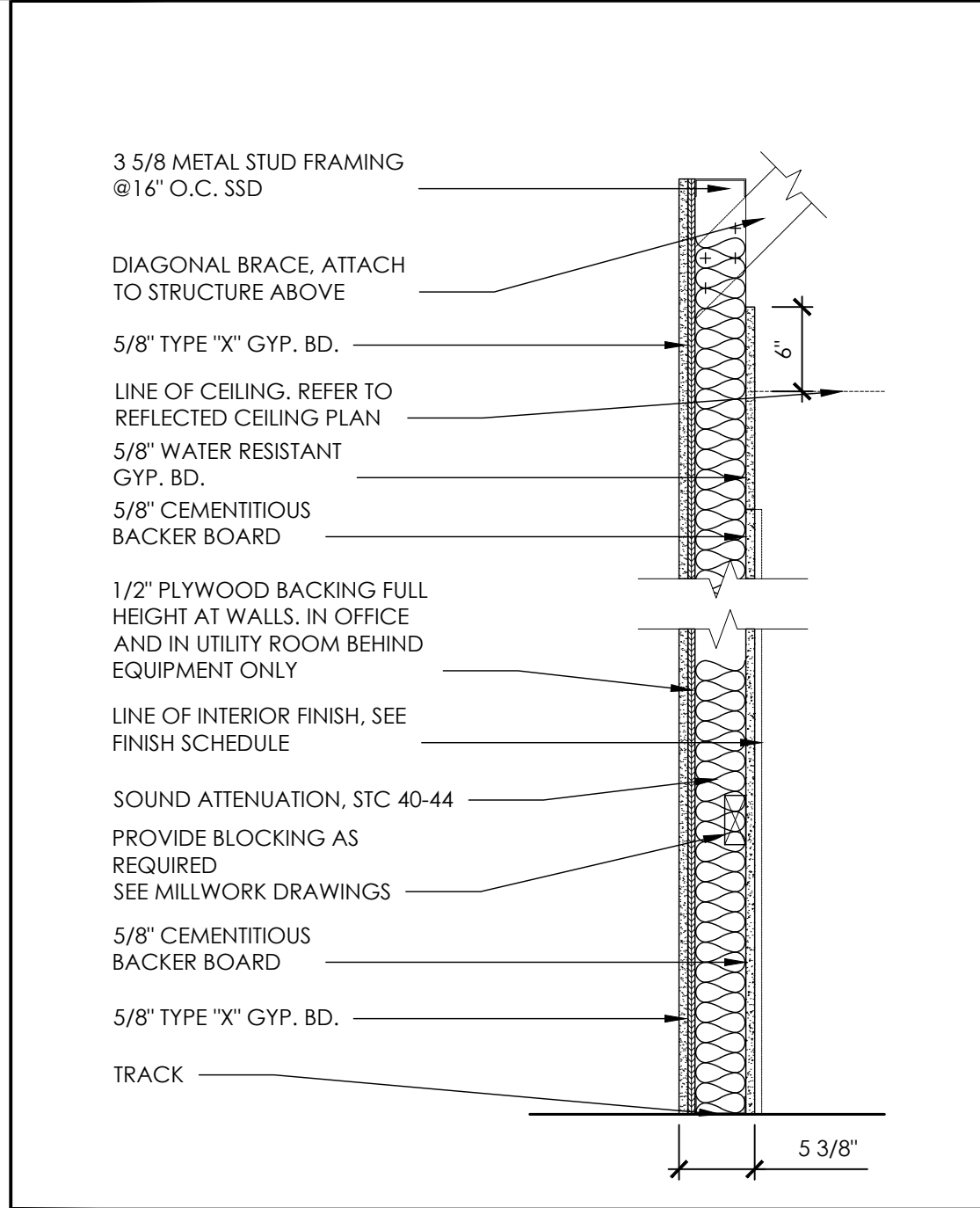
PLATFORM SECTION SCALE: 1" = 1'-0" P

INTERIOR MTL FURRING WALL SCALE: 1" = 1'-0" L

INTERIOR MTL FURRING WALL SCALE: 1" = 1'-0" H

INTERIOR MTL FRAME WALL SCALE: 1" = 1'-0" E

INTERIOR MTL FRAME WALL SCALE: 1" = 1'-0" B



INTERIOR MTL FRAME WALL SCALE: 1" = 1'-0" N

INTERIOR MTL FRAME WALL SCALE: 1" = 1'-0" K

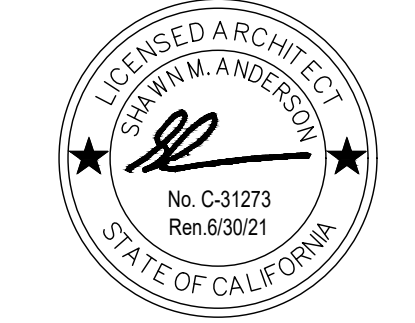
INTERIOR MTL FURRING WALL SCALE: 1" = 1'-0" G

NOT USED SCALE: D

INTERIOR MTL FRAME WALL SCALE: 1" = 1'-0" A



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ISSUE / REVISION		
NO.	DATE	REVISION NAME
4.19.19		ISSUE FOR PERMIT
6.10.19		REVISION 1
9.13.19		BID SET

PET FOOD EXPRESS  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

PARTITION DETAILS

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

A6.1



FOUNDATION CONNECTIONS

PONY WALL (PW) ALLOWABLE LOADS

CONCENTRATED LOAD AT FREE END

MATERIAL SPECIFICATION:

**PONY WALL STUD**

Material Thickness: 12ga (97mil), 0.1017" design thickness  
 Material Strength: Structural grade 50, 50ksi minimum yield strength  
 ASTM: A653/A653M, A1003/A1003M

**PONY WALL BASE PLATE**

Material Thickness: 1/2" minimum thickness  
 Material Strength: 36ksi minimum yield strength  
 ASTM: A36/A36M

Member designation	Pony Wall Length (in)	Max point load @ cantilever end, lbs				Moment (ASD) due to point load, in-lb					
		L720	L736	L740	L780	Max	L720	L736	L740	L780	
Pony Wall	24	165	330	495	661	763	3,964	7,927	11,891	15,854	18,316
	36	73	147	220	294	509	2,642	5,285	7,927	10,569	18,316
	48	41	83	124	165	226	1,982	3,964	5,945	7,927	18,316

Notes:

- ClarkDietrich Pony Wall is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track.
- Out-of-plane loads are transferred to the floor system through the base-plate, which is welded to Pony Wall member.
- ClarkDietrich Pony Wall is used in conjunction with structural or non-structural studs to frame the wall.
- Listed allowable loads are based on Allowable Stress Design (ASD).
- Base connection between ClarkDietrich Pony Wall and support structure are designed by others.
- For serviceability/deflection calculations of ClarkDietrich Pony Wall, use effective moment of inertia = 0.7739 in<sup>4</sup>.
- Listed maximum point load at cantilever end calculated using maximum allowable moment. When both point load and uniform loads are applied, combined loads should be limited to maximum allowable moment.
- It is the responsibility of the designer to properly detail connections on the contract drawings.

Pony Wall Allowable Loads w/Anchors

Member designation	Pony Wall Length (in)	Anchors to structure	No. of Anchors	Max point load @ cantilever end, lbs				Allowable base moment, in-lb				
				L720	L736	L740	L780	Max	L720	L736	L740	L780
PW24	24	1/2" Hilti Kwik Bolt-3 (3-1/2" Nominal Embedment, 300psi Uncracked concrete)	1	142	142	142	142	3,403	3,403	3,403	3,403	3,403
			4	165	330	495	661	452	3,964	7,927	10,840	10,840
PW36	36	1/2" Hilti Kwik Bolt-3 (3-1/2" Nominal Embedment, 300psi Uncracked concrete)	1	73	95	95	95	2,642	3,403	3,403	3,403	3,403
			4	73	147	220	294	2,642	5,285	7,927	10,569	10,840
PW48	48	1/2" Hilti Kwik Bolt-3 (3-1/2" Nominal Embedment, 300psi Uncracked concrete)	1	41	71	71	71	1,982	3,403	3,403	3,403	3,403
			4	41	83	124	165	226	1,982	3,964	5,945	7,927

Notes:

- ClarkDietrich Pony Wall is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track.
- Out-of-plane loads are transferred to the floor system through base-plate, which is welded to Pony Wall member.
- ClarkDietrich Pony Wall is used in conjunction with structural or non-structural studs to frame the wall.
- Listed allowable loads are based on Allowable Stress Design (ASD).
- For serviceability/deflection calculations of ClarkDietrich Pony Wall, use effective moment of inertia = 0.7739 in<sup>4</sup>.
- Above listed capacities w/anchors shall be used only when using 1/2" Hilti Kwik Bolt-3 anchors to concrete.
- Other anchors may be used to achieve full Pony Wall capacity, but must be designed separately.
- Above listed capacities have not been increased for wind, seismic, or other factors.
- Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.
- It is the designer's responsibility to check for minimum concrete edge distance and minimum concrete thickness when using anchors.
- It is the responsibility of the designer to properly detail connections on the contract drawings.

Pub. No. CD-PW-718 The technical content of this literature is effective 7/30/18 and supersedes all previous information. clarkdietrich.com

FOUNDATION CONNECTIONS

PONY WALL (PW) ALLOWABLE LOADS

UNIFORMLY DISTRIBUTED LOAD

MATERIAL SPECIFICATION:

**PONY WALL STUD**

Material Thickness: 12ga (97mil), 0.1017" design thickness  
 Material Strength: Structural grade 50, 50ksi minimum yield strength  
 ASTM: A653/A653M, A1003/A1003M

**PONY WALL BASE PLATE**

Material Thickness: 1/2" minimum thickness  
 Material Strength: 36ksi minimum yield strength  
 ASTM: A36/A36M

Member designation	Pony Wall Length (in)	Uniformly distributed load, lbs/ft				Moment (ASD) due to uniform load, in-lb				
		L720	L736	L740	L780	Max	L720	L736	L740	L780
Pony Wall	24	220	440	661	763	763	5,285	10,569	15,854	18,316
	36	85	130	196	261	339	3,523	7,046	10,569	14,093
	48	28	55	83	110	151	2,642	5,285	7,927	10,569

Notes:

- ClarkDietrich Pony Wall is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track.
- Out-of-plane loads are transferred to the floor system through the base-plate, which is welded to Pony Wall member.
- ClarkDietrich Pony Wall is used in conjunction with structural or non-structural studs to frame the wall.
- Listed allowable loads are based on Allowable Stress Design (ASD).
- Base connection between ClarkDietrich Pony Wall and support structure are designed by others.
- For serviceability/deflection calculations of ClarkDietrich Pony Wall, use effective moment of inertia = 0.7739 in<sup>4</sup>.
- Listed maximum point load at cantilever end calculated using maximum allowable moment. When both point load and uniform loads are applied, combined loads should be limited to maximum allowable moment.
- It is the responsibility of the designer to properly detail connections on the contract drawings.

Pony Wall Allowable Loads w/Anchors

Member designation	Pony Wall Length (in)	Anchors to structure	No. of Anchors	Uniformly distributed load, lbs/ft				Allowable base moment, in-lb			
				L720	L736	L740	L780	Max	L720	L736	L740
PW24	24	1/2" Hilti Kwik Bolt-3 (3-1/2" Nominal Embedment, 300psi Uncracked concrete)	1	142	142	142	142	3,403	3,403	3,403	3,403
			4	165	330	495	661	452	3,964	7,927	10,840
PW36	36	1/2" Hilti Kwik Bolt-3 (3-1/2" Nominal Embedment, 300psi Uncracked concrete)	1	73	95	95	95	2,642	3,403	3,403	3,403
			4	73	147	220	294	2,642	5,285	7,927	10,569
PW48	48	1/2" Hilti Kwik Bolt-3 (3-1/2" Nominal Embedment, 300psi Uncracked concrete)	1	41	71	71	71	1,982	3,403	3,403	3,403
			4	41	83	124	165	226	1,982	3,964	5,945

Notes:

- ClarkDietrich Pony Wall is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track.
- Out-of-plane loads are transferred to the floor system through base-plate, which is welded to Pony Wall member.
- ClarkDietrich Pony Wall is used in conjunction with structural or non-structural studs to frame the wall.
- Listed allowable loads are based on Allowable Stress Design (ASD).
- For serviceability/deflection calculations of ClarkDietrich Pony Wall, use effective moment of inertia = 0.7739 in<sup>4</sup>.
- Above listed capacities w/anchors shall be used only when using 1/2" Hilti Kwik Bolt-3 anchors to concrete.
- Other anchors may be used to achieve full Pony Wall capacity, but must be designed separately.
- Above listed capacities have not been increased for wind, seismic, or other factors.
- Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.
- It is the designer's responsibility to check for minimum concrete edge distance and minimum concrete thickness when using anchors.
- It is the responsibility of the designer to properly detail connections on the contract drawings.

Pub. No. CD-PW-718 The technical content of this literature is effective 7/30/18 and supersedes all previous information. clarkdietrich.com

FOUNDATION CONNECTIONS

PONY WALL (PW)

Partial wall framing

Partial wall framing connection to the floor

The ClarkDietrich Pony Wall is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track. Out-of-plane loads are transferred to the floor system through the base-plate, which is welded to the Pony Wall stud member.

PRODUCT DIMENSIONS

PW24 = 23-3/4" tall with 3-3/8" wide x 8" long plate  
 PW36 = 35-3/4" tall with 3-3/8" wide x 8" long plate  
 PW48 = 47-3/4" tall with 3-3/8" wide x 8" long plate

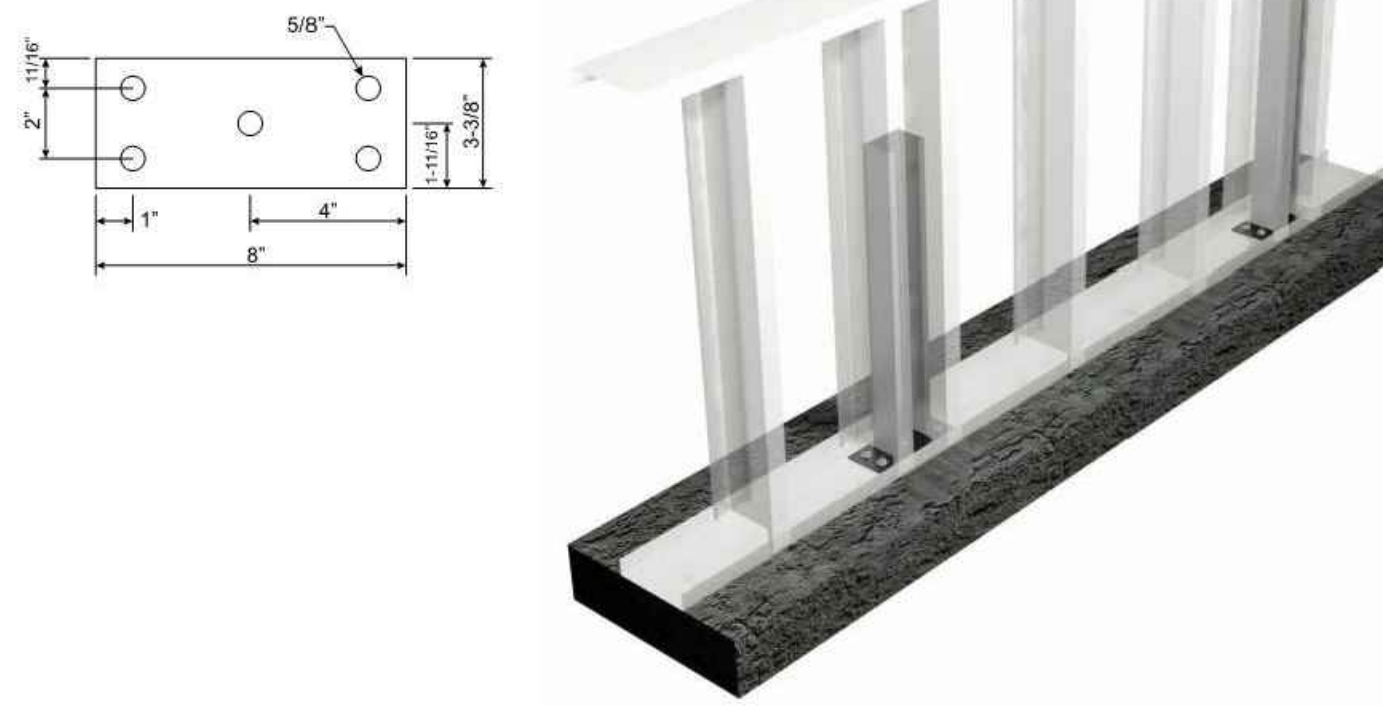
MATERIAL SPECIFICATIONS

Plate Material: ASTM A36 1/2" thick hot rolled steel  
 Stud Material: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)  
 12ga (97mil), 0.1017" Design thickness, 0.0966" Min. thickness

Packaging: Individually  
 ASTM: A36, A653/A653M, A1003

INSTALLATION

Install the Pony Wall inside the track or directly to the floor structure. Anchor to the floor as designed by EOR. Attach the studs to both flanges of the Pony Wall. A minimum of 3-1/2" stud member can be used.



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FOUNDATION CONNECTIONS

PONY WALL (PW) ALLOWABLE LOADS

MAXIMUM ALLOWABLE LOADS

MATERIAL SPECIFICATION:

**PONY WALL STUD**

Material Thickness: 12ga (97mil), 0.1017" design thickness  
 Material Strength: Structural grade 50, 50ksi minimum yield strength  
 ASTM: A653/A653M, A1003/A1003M

**PONY WALL BASE PLATE**

Material Thickness: 1/2" minimum thickness  
 Material Strength: 36ksi minimum yield strength  
 ASTM: A36/A36M

Member designation	Pony Wall Length (in)	Anchors to structure	Strength based capacity (ASD)			
			Allowable moment, in-lb	Max point load @ cantilever end, lbs	Max uniform line (UDL) load, lbs/ft	Max UDL moment, in-lb
Pony Wall	24	Designed by others	18,316	763	763	18,316
	36		598	339	598	
	48		392	191	392	

Notes:

- ClarkDietrich Pony Wall is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track.
- Out-of-plane loads are transferred to the floor system through the base-plate, which is welded to Pony Wall member.
- ClarkDietrich Pony Wall is used in conjunction with structural or non-structural studs to frame the wall.
- Listed allowable loads are based on Allowable Stress Design (ASD).
- Base connection between ClarkDietrich Pony Wall and support structure are designed by others.
- For serviceability/deflection calculations of ClarkDietrich Pony Wall, use effective moment of inertia = 0.7739 in<sup>4</sup>.
- Listed maximum point load at cantilever end calculated using maximum allowable moment. Similarly, listed maximum uniformly distributed load calculated using maximum allowable moment. When both point load and uniform loads are applied, combined loads should be limited to maximum allowable moment.
- It is the responsibility of the designer to properly detail connections on the contract drawings.

Pony Wall Allowable Loads w/Anchors

Member designation	Pony Wall Length (in)	Anchors to structure	No. of Anchors	Strength based capacity (ASD)	
				Allowable base moment, in-lb	Allowable UDL load, lbs/ft
PW24 / PW36 / PW48	(3-1/2" Nominal Embedment, 300psi Uncracked concrete)	1/2" Hilti Kwik Bolt-3	1	3,403	3,403
			4	10,840	10,840

Notes:

- ClarkDietrich Pony Wall is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track.
- Out-of-plane loads are transferred to the floor system through base-plate, which is welded to Pony Wall member.
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- Listed allowable loads are based on Allowable Stress Design (ASD).
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- Above listed capacities w/anchors shall be used only when using 1/2" Hilti Kwik Bolt-3 anchors to concrete.
- Other anchors may be used to achieve full Pony Wall capacity, but must be designed separately.
- Above listed capacities have not been increased for wind, seismic, or other factors.
- Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.
- It is the designer's responsibility to check for minimum concrete edge distance and minimum concrete thickness when using anchors.
- It is the responsibility of the designer to properly detail connections on the contract drawings.

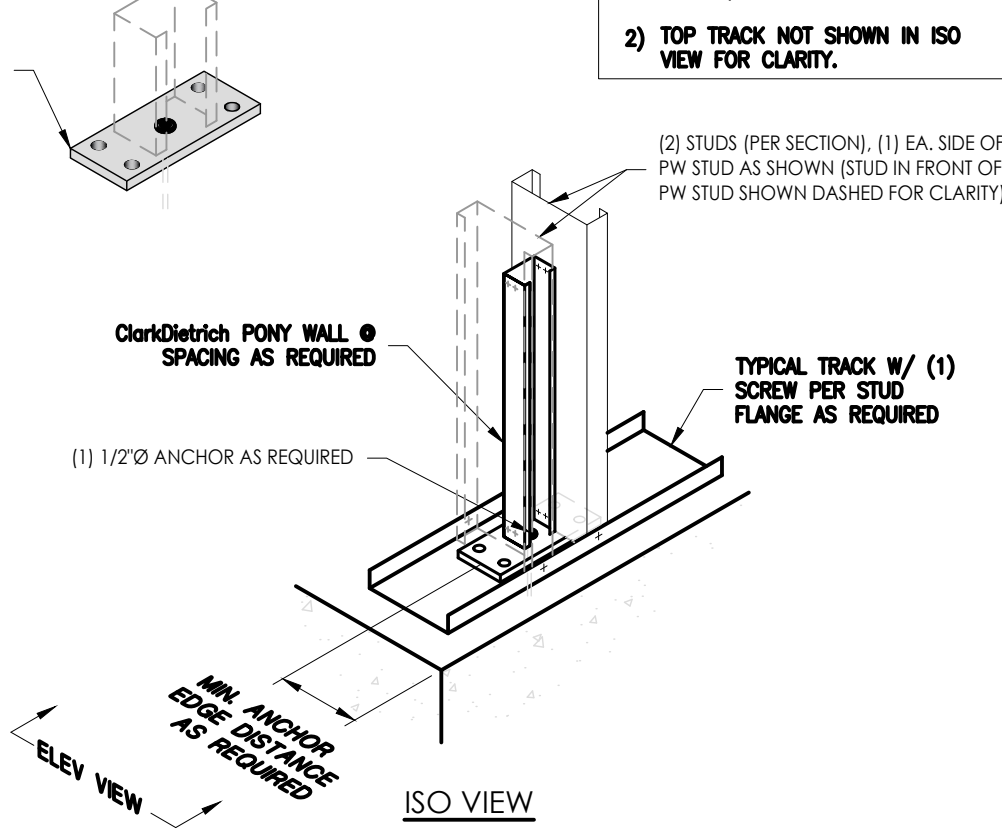
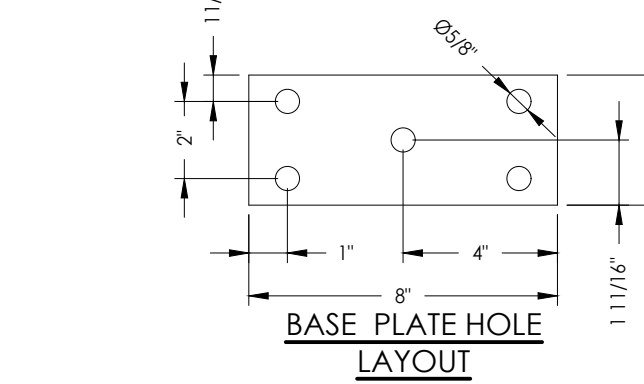
Pub. No. CD-PW-718 The technical content of this literature is effective 7/30/18 and supersedes all previous information. clarkdietrich.com

PONY WALL STUD CONNECTIONS

SCALE: 2

2

- NOTES:
- LOCATE PW ASSEMBLY IN BASE TRACK AS REQUIRED.
  - TOP TRACK NOT SHOWN IN ISO VIEW FOR CLARITY.



PONY WALL CONNECTION W/(1) ANCHOR

PARTIAL WALL FRAMING CONNECTION TO FLOOR USING ClarkDietrich's PONY WALL



Engineering Services: (877) 832-3246 Technical Services: (888) 437-3244

The ClarkDietrich Pony Wall is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track. Out-of-plane loads are transferred to the floor system through the base-plate, which is welded to the Pony Wall stud member.

CLIENT

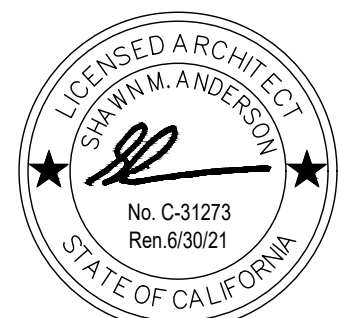


ARCHITECT



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 Oakland, CA 94612  
 p 415.541.0977  
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ISSUE / REVISION

NO.	DATE	REVISION NAME
1	4.19.19	ISSUE FOR PERMIT
	6.10.19	REVISION 1
	9.13.19	BID SET

PROJECT LOCATION

PET FOOD EXPRESS  
 4710 Freepoint Blvd, Suite 12K-A  
 Sacramento, CA 95822

DRAWING TITLE

PONY WALL STUD CONNECTIONS

SCALE: AS NOTED  
 PROJECT NUMBER: 18404  
 SHEET NUMBER:

A6.1.1

PONY WALL STUD CONNECTIONS

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

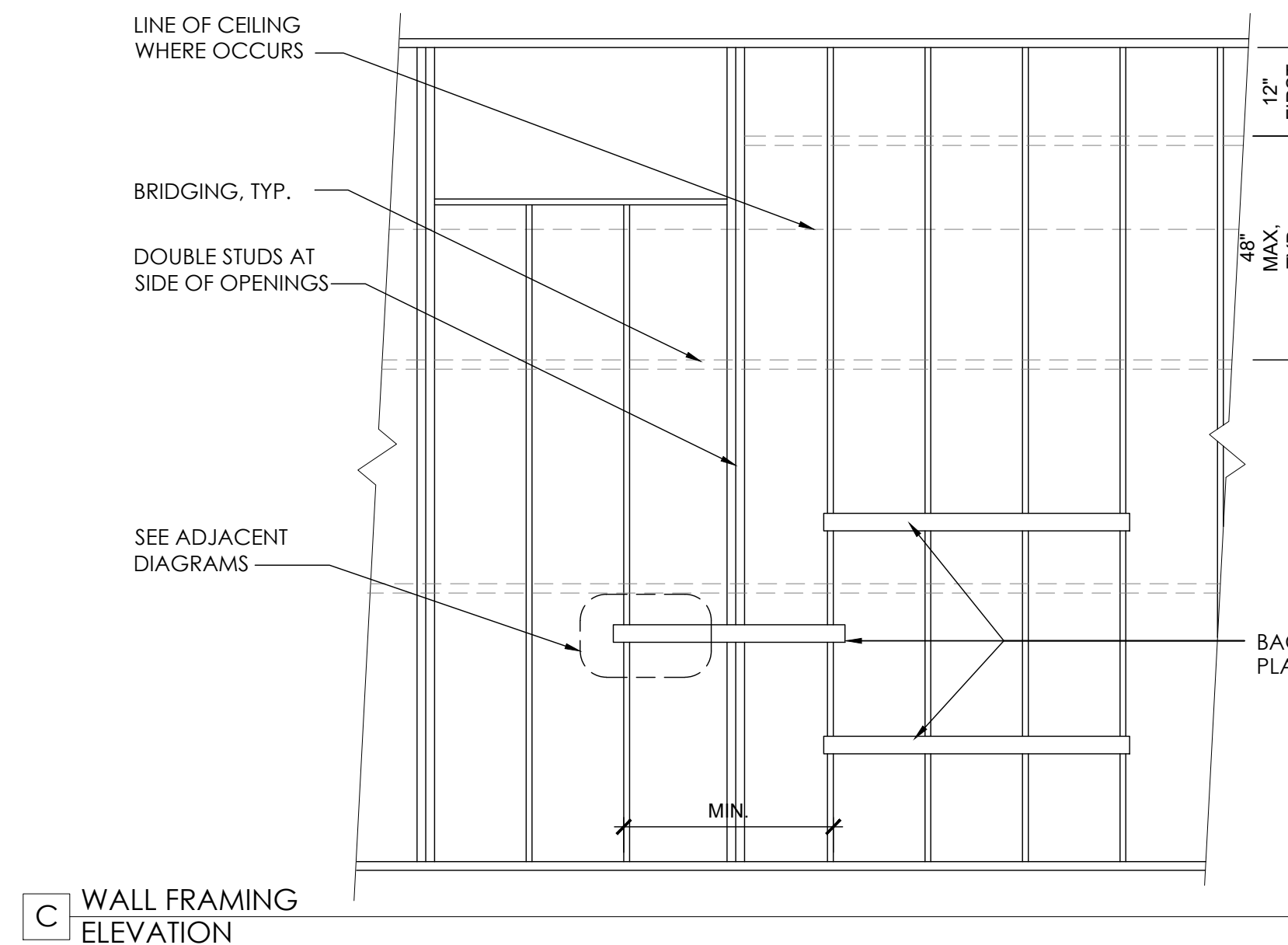
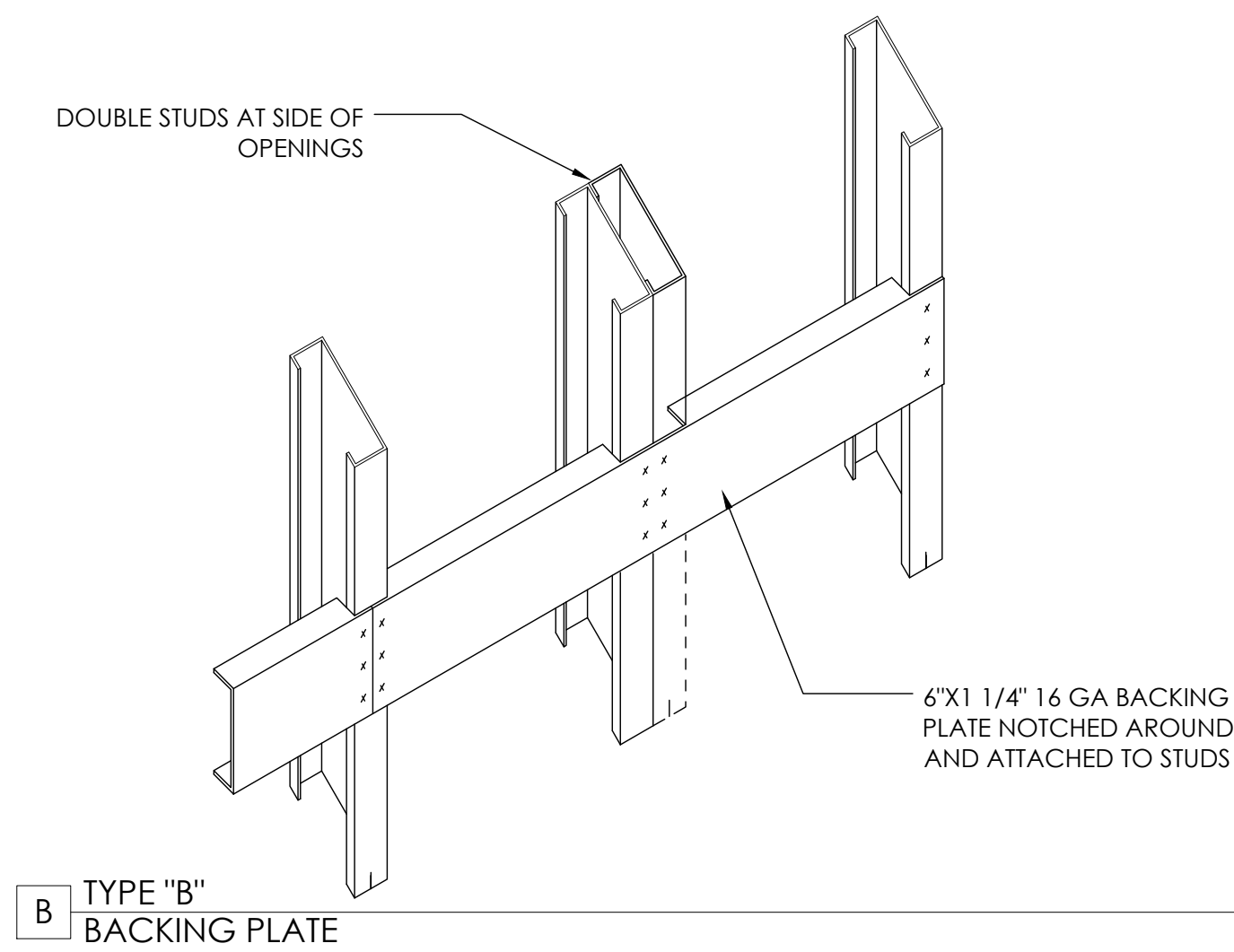
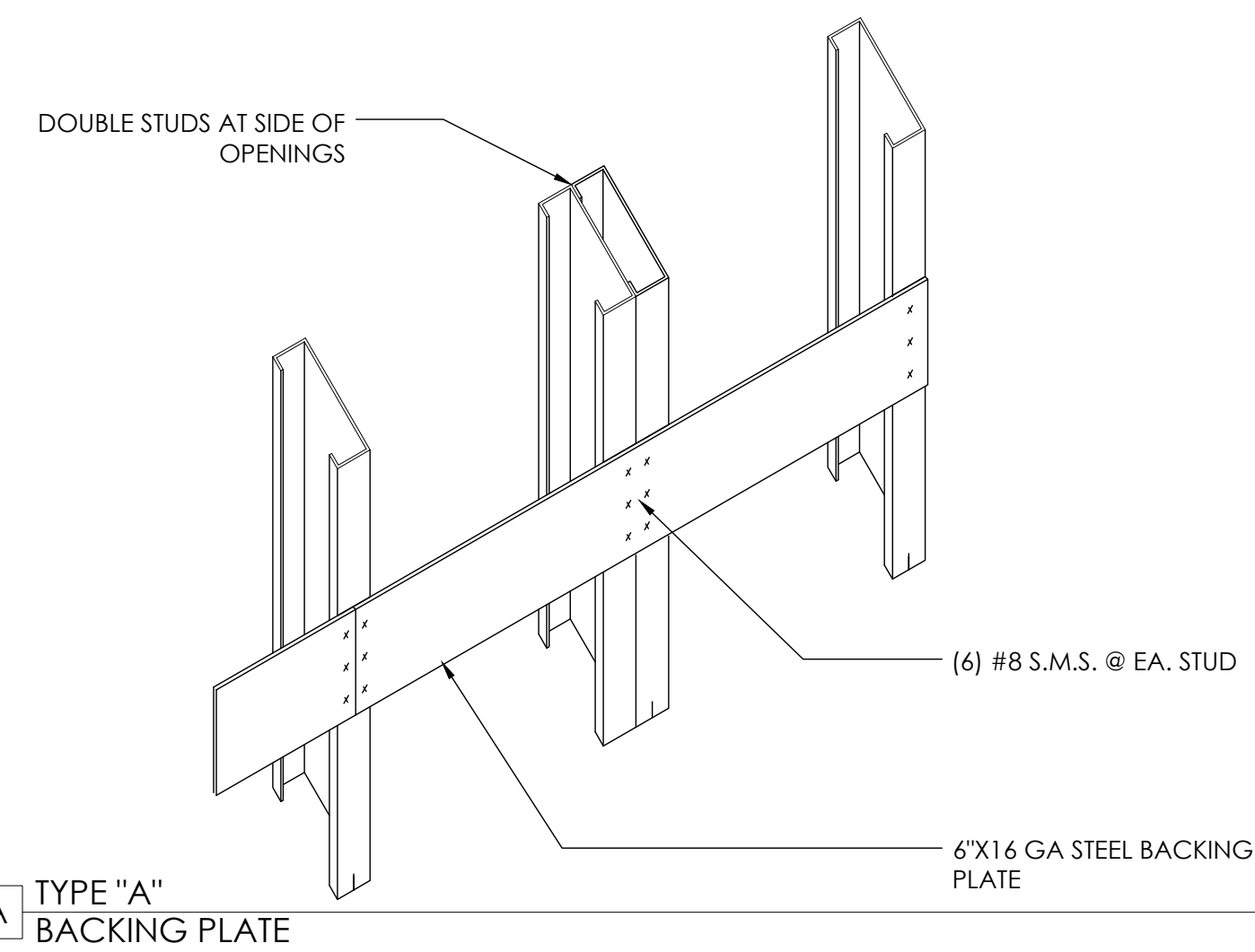
3

PONY WALL STUD CONNECTIONS

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

1





- NOTES:
- TYPE 'A' BACKING FOR MISC. ITEMS I.E. SURFACE MTD. MIRRORS, WASTE RECEPTACLES, TOWEL DISPENSERS ETC. MAXIMUM WEIGHT-50 LBS/FT.
  - TYPE 'B' BACKING PLATES FOR UPPER WALL HUNG CABINET (UP TO 2 SHELVES) BASE CABINETS, FULL HEIGHT CABINETS, HANDRAILS, GUARDRAILS, GRAB BARS, WALL HUNG EQUIPMENT ETC. MAXIMUM WEIGHT-100 LBS/FT.
  - SEE TYPICAL WALL FRAMING FOR GAUGE OF STUDS
  - VERIFY LENGTH, HEIGHT, LOCATION OF BACKING PLATE AND NUMBER REQUIRED WITH ACCESSORY MANUFACTURERS
  - USE #12 SELF TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO BACKING PLATE
  - WALL STUD FLANGES ARE CONTINUOUS AT BACKING PLATE

CLIENT



ARCHITECT



360 22nd Street, Suite 800  
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REGISTRATION



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ISSUE / REVISION

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	9.13.19	BID SET

PROJECT LOCATION

PET FOOD EXPRESS  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

FRAMING DETAILS

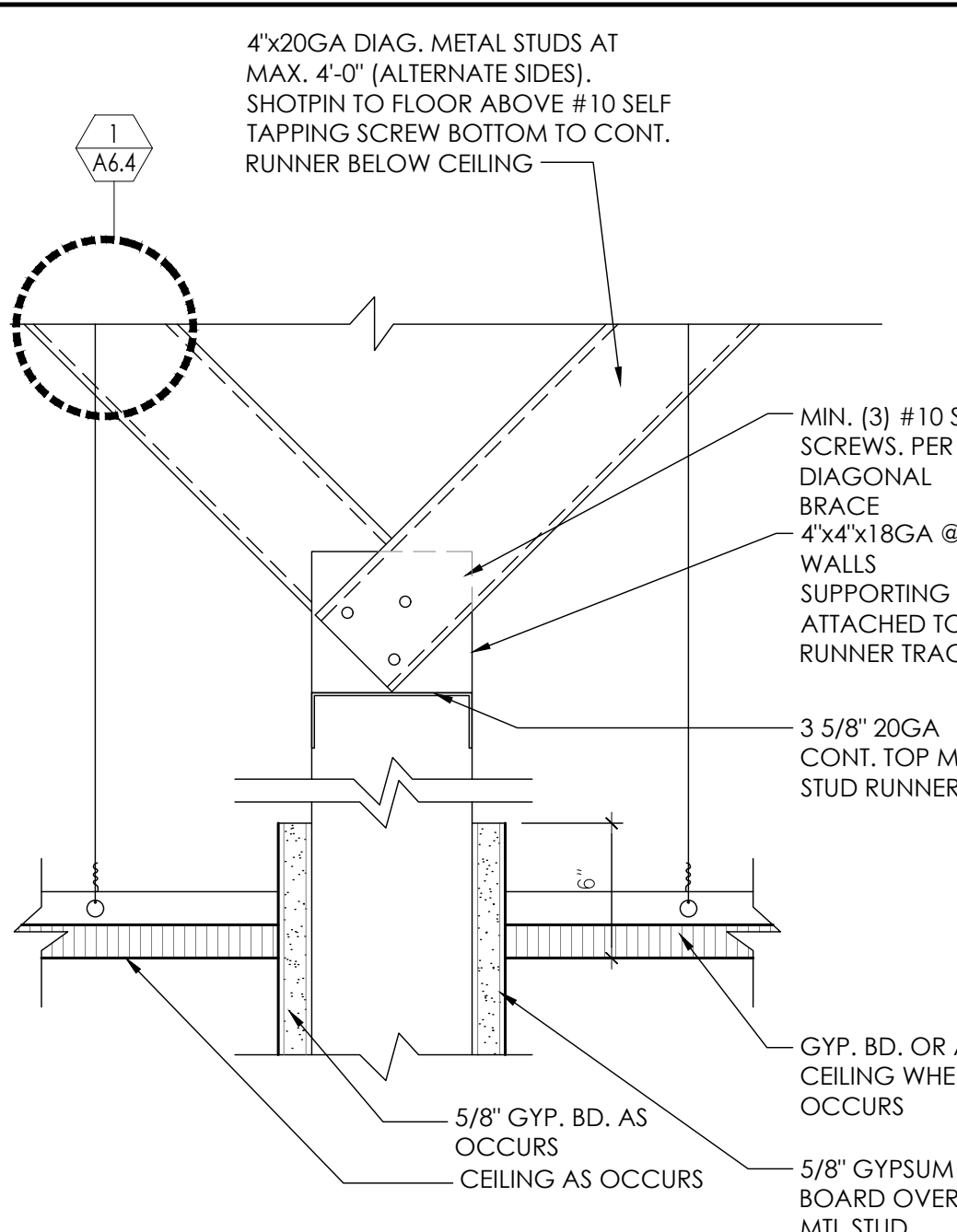
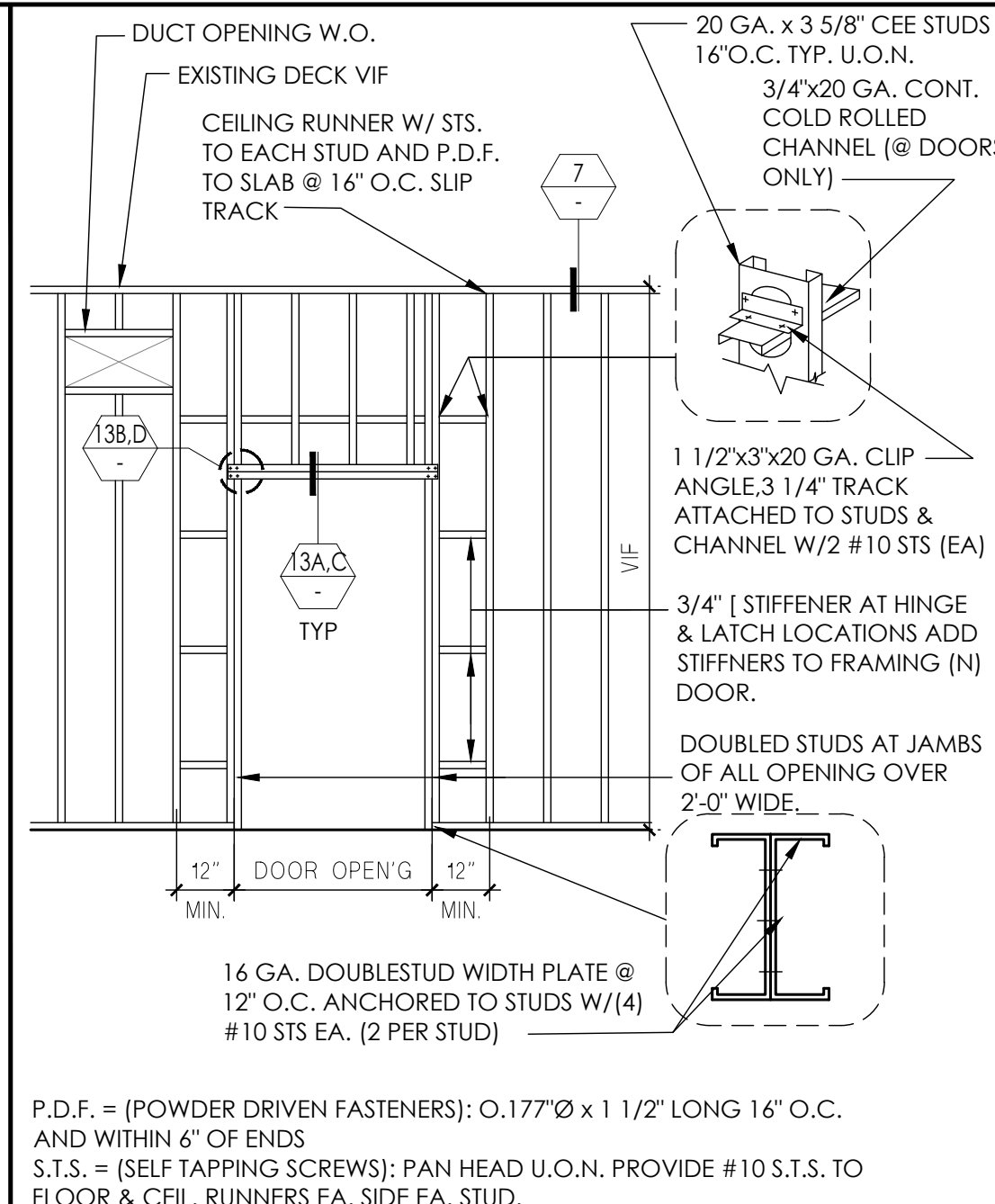
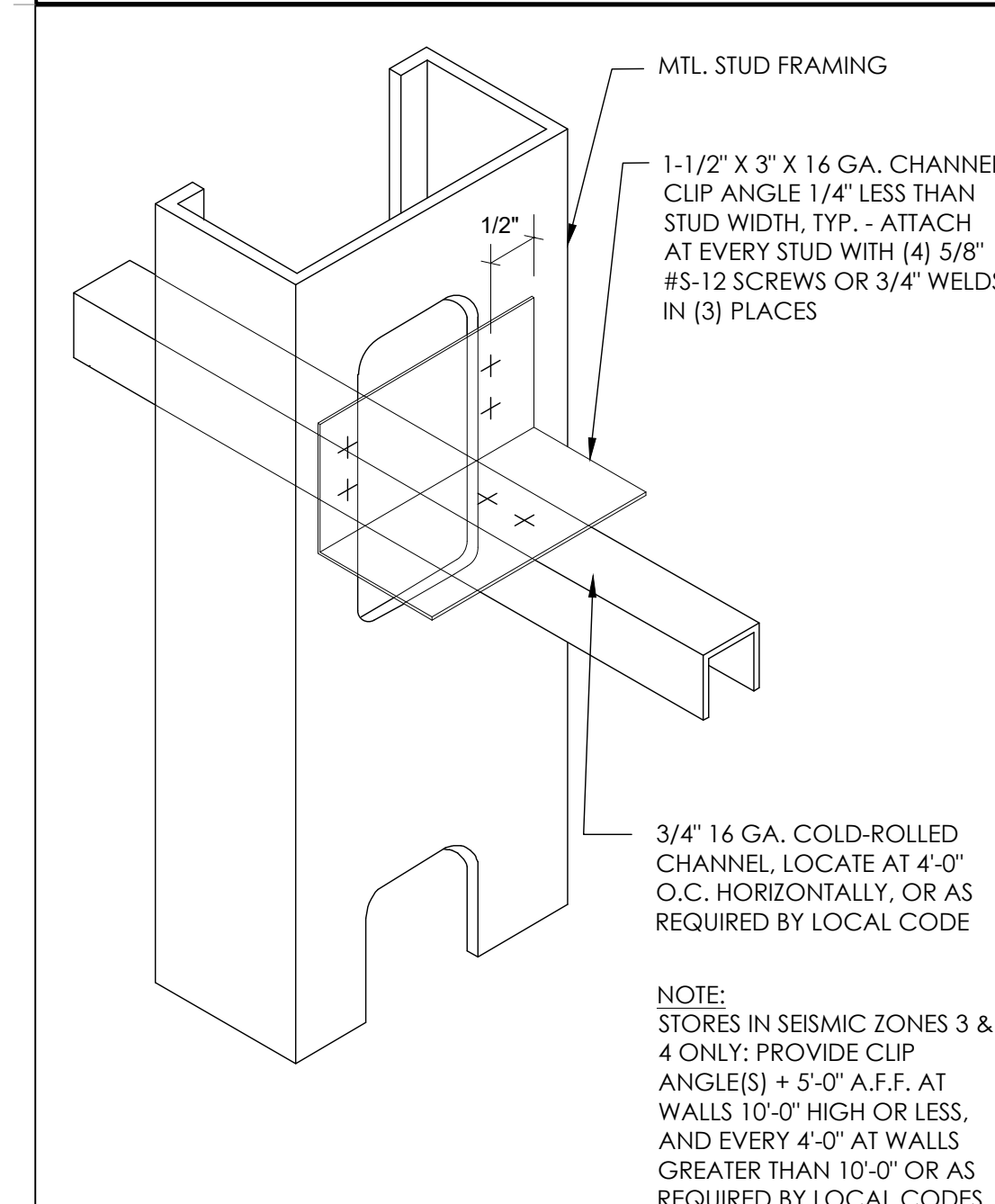
SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

A6.2

BLOCKING DETAILS SCALE: 1-1/2" = 1'-0" 3

LIMITING WALL HEIGHT TABLES

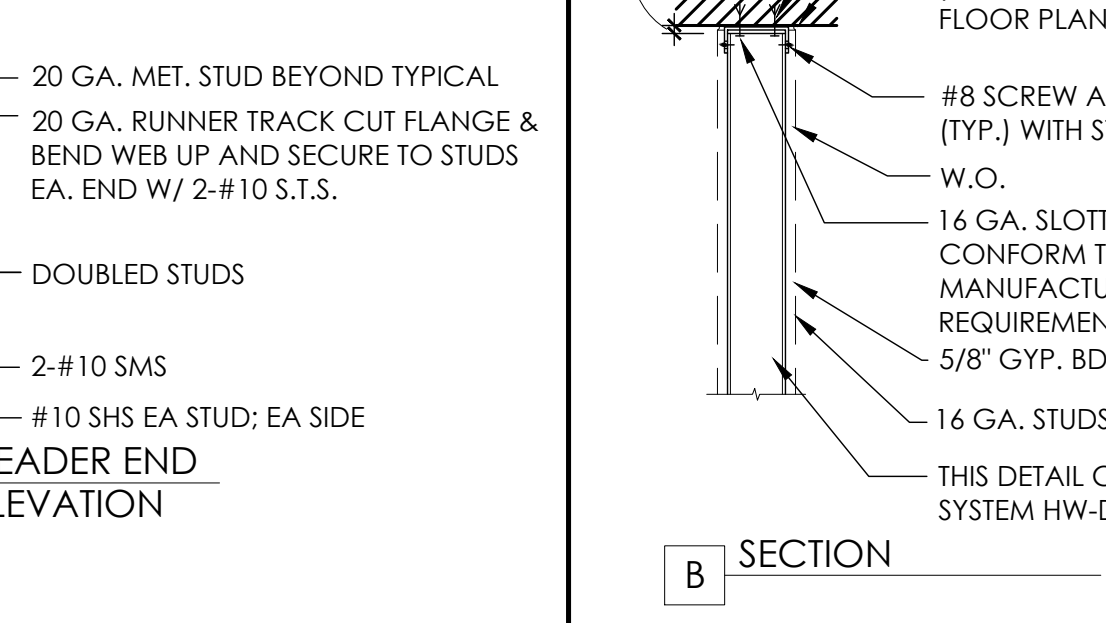
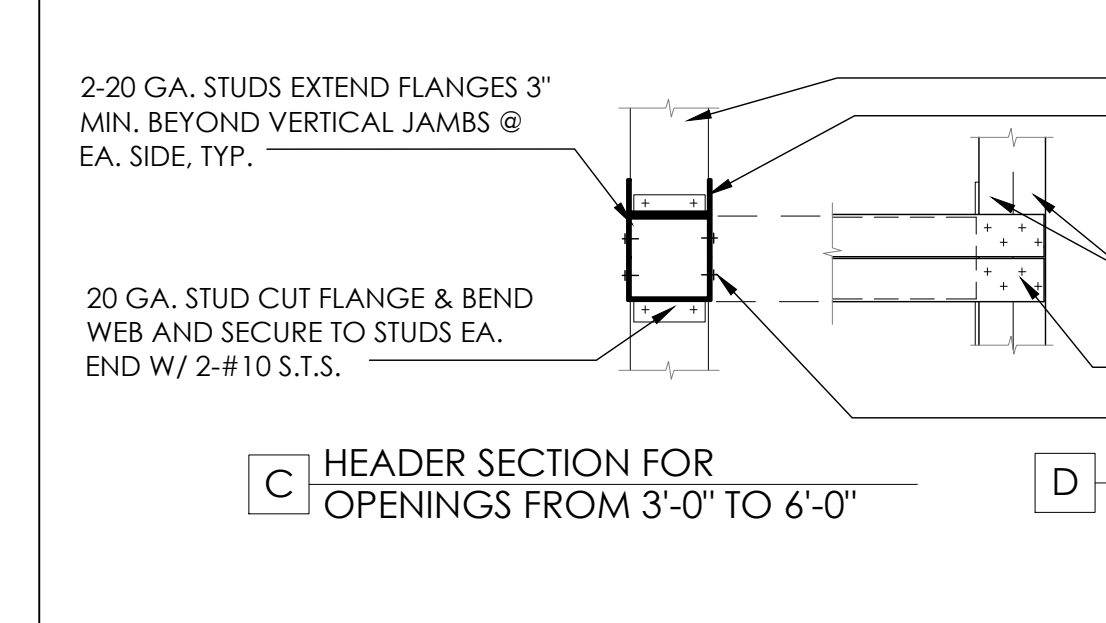
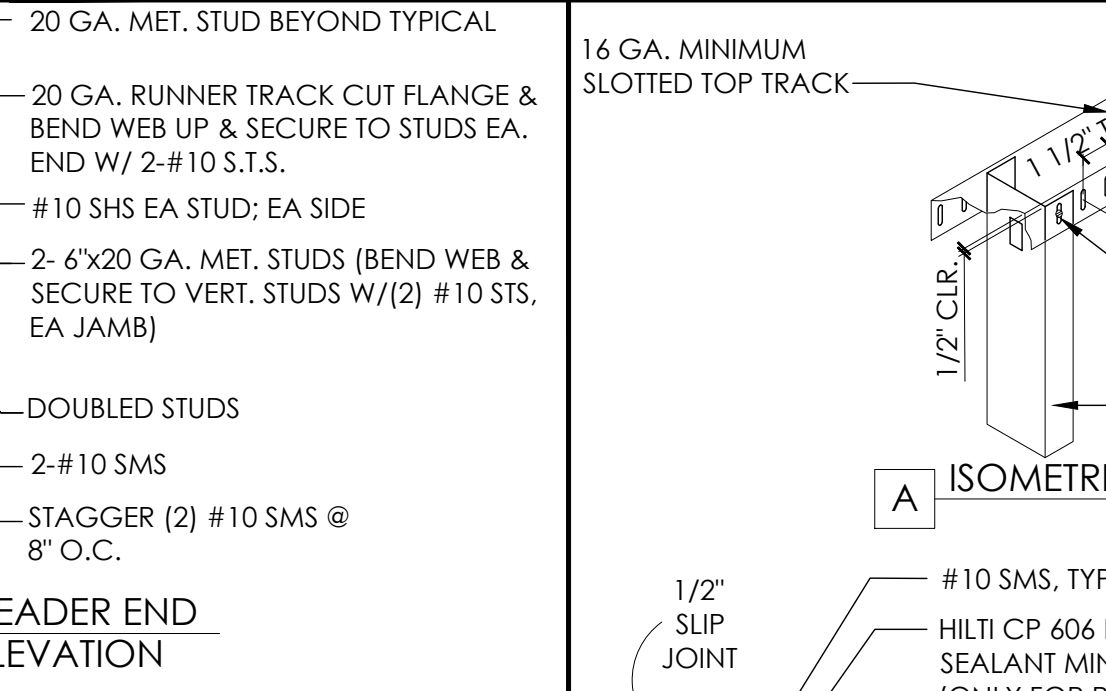
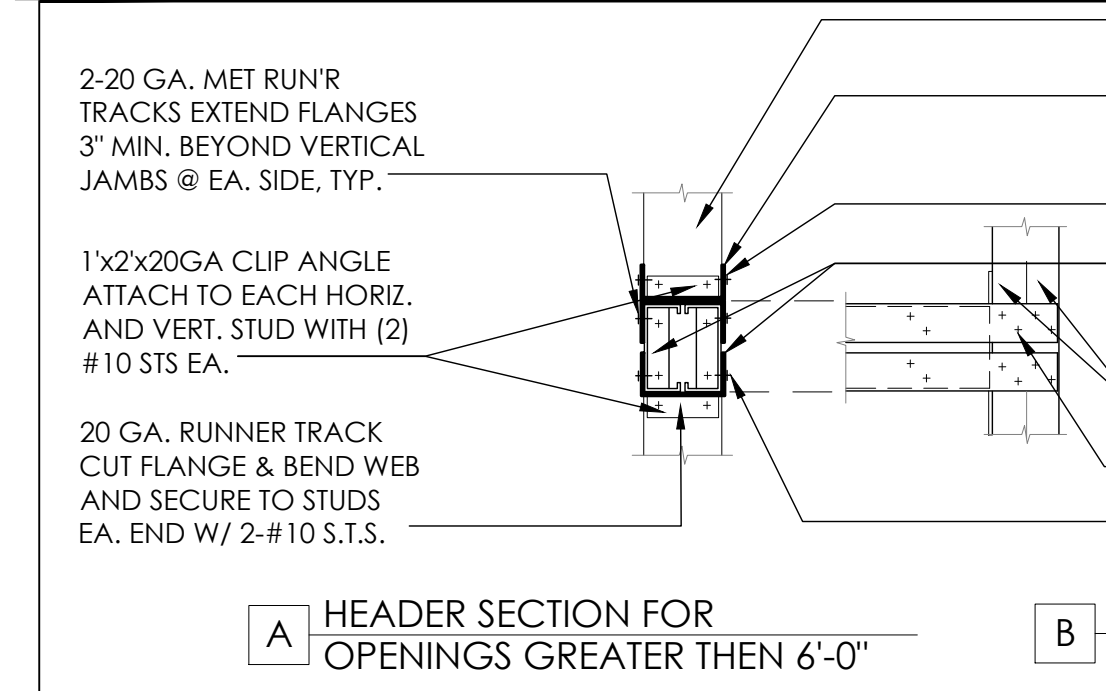
STUD WIDTH	STUD TYPE	STUD GAUGE	STUD SPACING	MAXIMUM HEIGHT	L/240		L/360	
					STUD GAUGE	STUD SPACING	STUD GAUGE	STUD SPACING
1-5/8"	162S125-30	20	12"	8'-0"			15'-5"	
	162S125-30	20	16"	7'-3"			14'-0"	
	162S125-30	20	24"	6'-4"			12'-3"	
	162S125-33	20	12"	8'-3"	19'-11"	17'-4"	18'-2"	15'-9"
	162S125-33	20	16"	7'-6"	18'-1"	15'-9"	18'-2"	13'-9"
2-1/2"	250S125-18	25	12"	9'-2"	20	24"	20'-10"	18'-2"
	250S125-18	25	16"	8'-4"	20	16"	18'-11"	16'-6"
	250S125-18	25	24"	7'-3"	20	24"	16'-6"	14'-5"
	250S125-27	22	12"	10'-9"	20	12"	21'-11"	19'-1"
	250S125-27	22	16"	9'-9"	20	16"	19'-11"	17'-4"
	250S125-27	22	24"	8'-6"	20	24"	17'-4"	15'-2"
	250S125-30	20	12"	11'-1"	18	12"	21'-8"	18'-11"
	250S125-30	20	16"	10'-1"	18	16"	19'-6"	17'-2"
	250S125-30	20	24"	8'-10"	18	24"	17'-2"	15'-0"
	250S125-33	20	12"	11'-6"	18	12"	22'-8"	19'-9"
	250S125-33	20	16"	10'-5"	18	16"	20'-7"	18'-0"
	250S125-33	20	24"	9'-1"	18	24"	18'-0"	15'-8"
3-1/2"	350S162-33	20	12"	18'-9"	20	16"	24'-11"	21'-9"
	350S162-33	20	16"	17'-1"	20	24"	21'-9"	19'-0"
	350S162-33	20	24"	14'-11"	20	12"	28'-7"	25'-0"
	350S162-43	18	12"	20'-5"	20	16"	26'-0"	22'-8"
	350S162-43	18	16"	18'-7"	20	24"	22'-6"	19'-10"
	350S162-43	18	24"	16'-2"	20	12"	29'-11"	26'-2"
3-5/8"	362S200-33	20	12"	18'-5"	20	16"	24'-11"	21'-9"
	362S200-33	20	16"	16'-9"	20	24"	21'-9"	19'-0"
	362S200-33	20	24"	14'-7"	20	12"	28'-7"	25'-0"
	362S200-43	18	12"	20'-5"	20	16"	26'-0"	22'-8"
	362S200-43	18	16"	18'-7"	20	24"	22'-6"	19'-10"
	362S200-43	18	24"	16'-2"	20	12"	29'-11"	26'-2"



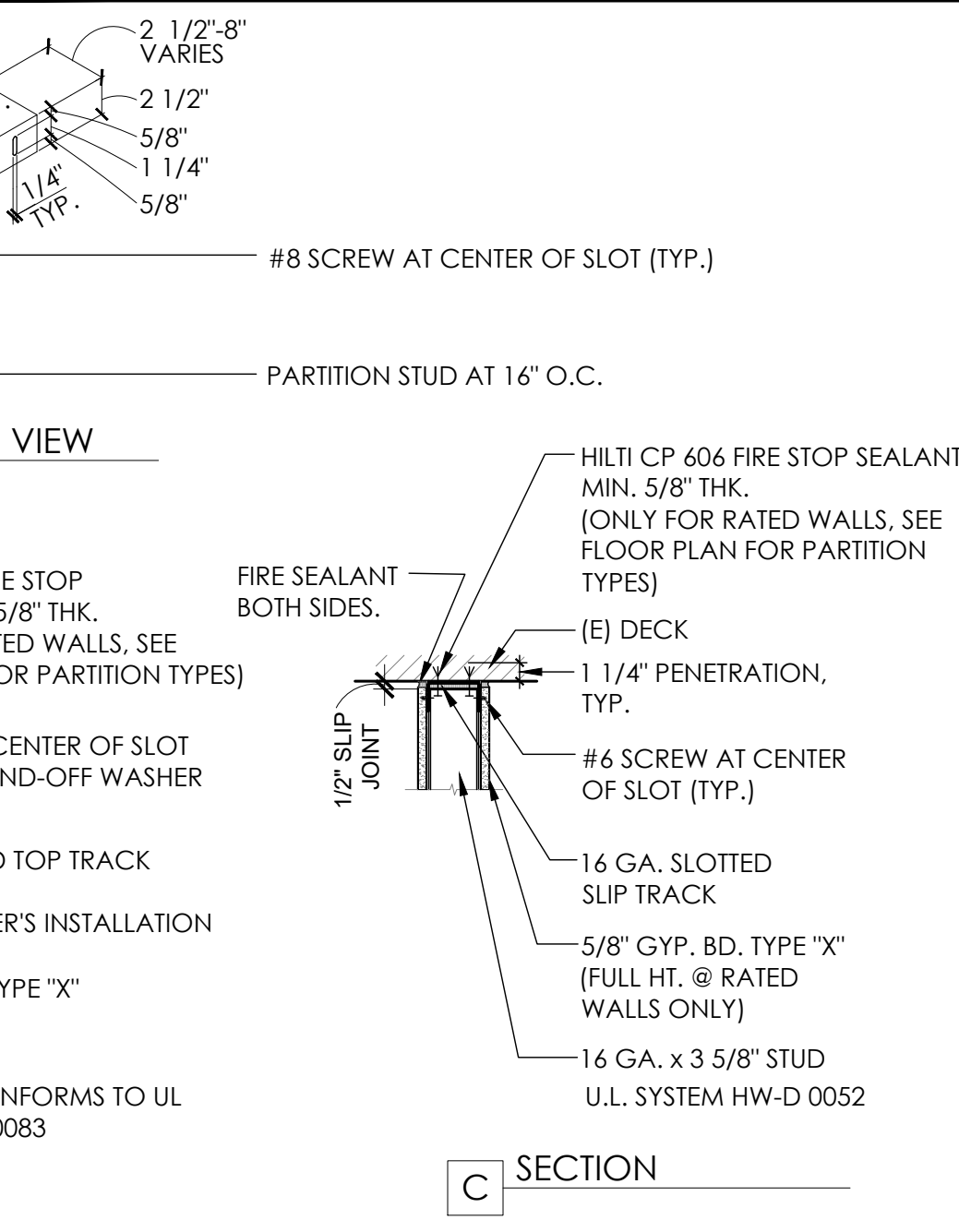
TYP. BRIDGING DETAILS SCALE: 6" = 1'-0" 14

FRAMING ELEV. TYP. DOOR SCALE: NTS 11

DIAGONAL BRACING SCALE: 3" = 1'-0" 8



TYP. HEADER DETAILS SCALE: 1-1/2" = 1'-0" 13



SLIP TRACK DETAILS SCALE: NTS 7

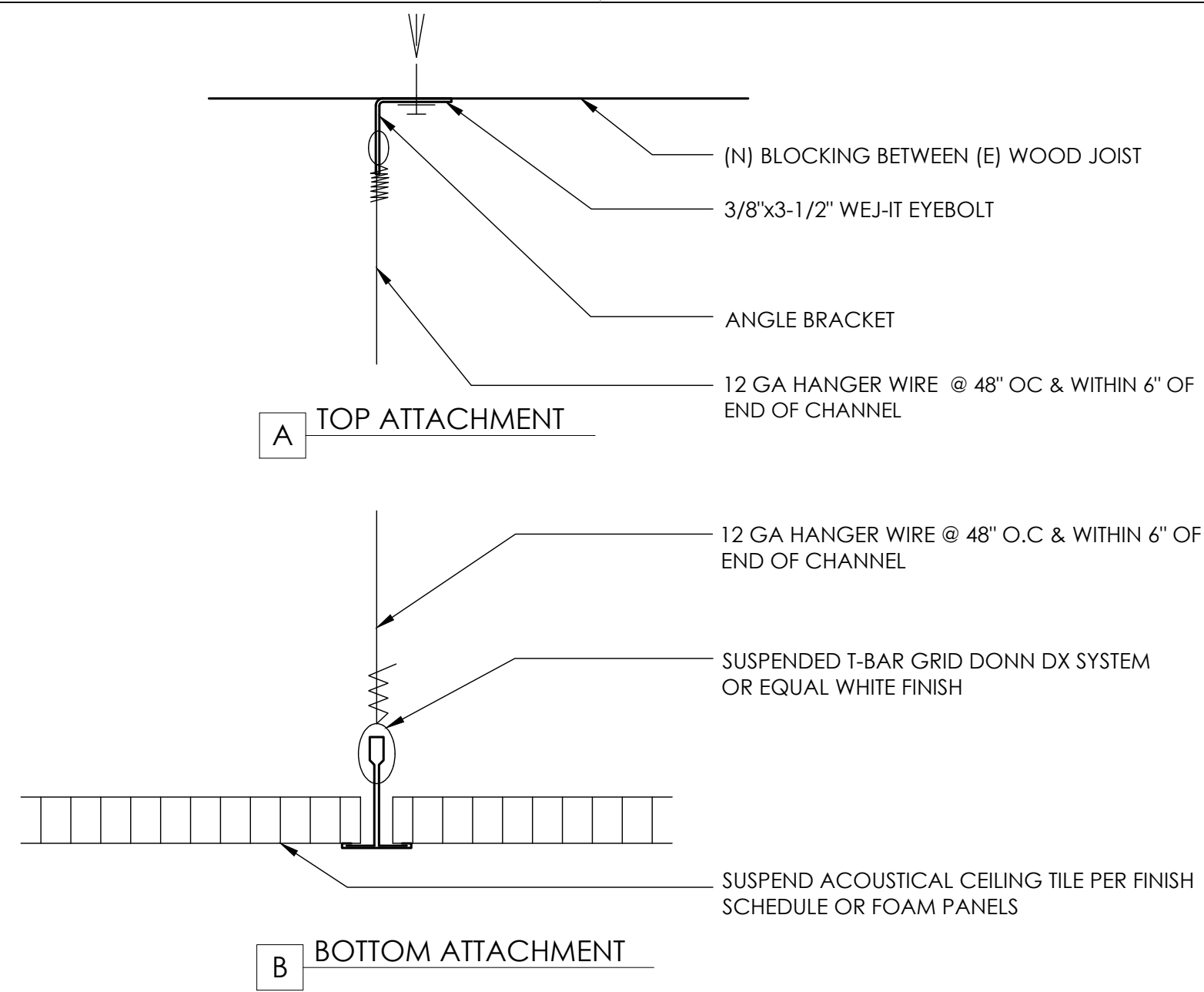
GENERAL PARTITION NOTES

- PARTITION SYMBOL MAY BE USED IN CONJUNCTION WITH NOTES TO MODIFY CONSTRUCTION FOR UNIQUE CONDITIONS.
- STEEL STUD GAUGES ARE DETERMINED BY HEIGHT AND SPACING. SEE SPECIFICATIONS AND LIMITING HEIGHTS TABLE ABOVE.
- STUDS ARE SPACED 1'-4" O.C. (U.O.N.).
- PARTITIONS ARE DIMENSIONED IN PLAN FROM FINISH FACE TO FINISH FACE. (EXCLUSIVE CERAMIC TILE) SEE PLAN & SPECIFICATIONS FOR TYPE OF FINISHES.
- FOR INTERIOR WALL AND PARTITION BASE INFORMATION REFER TO THE INTERIOR ELEVATIONS, OR WALL SECTIONS.
- DIAGONAL BRACING STUDS TO ATTACH TO BOTTOM OF STUD. EVERY 4'-0" O.C. - TYPICAL FOR ALL PARTITIONS.
- CONSTRUCT WALLS WITH PLUMBING WITH MOISTURE RESISTANT GYPSUM BOARD TO 4'-0" ABOVE FLOOR.
- PROVIDE FULL HEIGHT MOISTURE RESISTANT GYP. BD. IN TOILETS, JANITORS, CLOSETS.
- STEEL STUDS ARE COVERED BY THE FOLLOWING ICBO REPORTS: SSMA #ER-4943P.

STUD GAUGE/ LIMITING HEIGHT SCH.

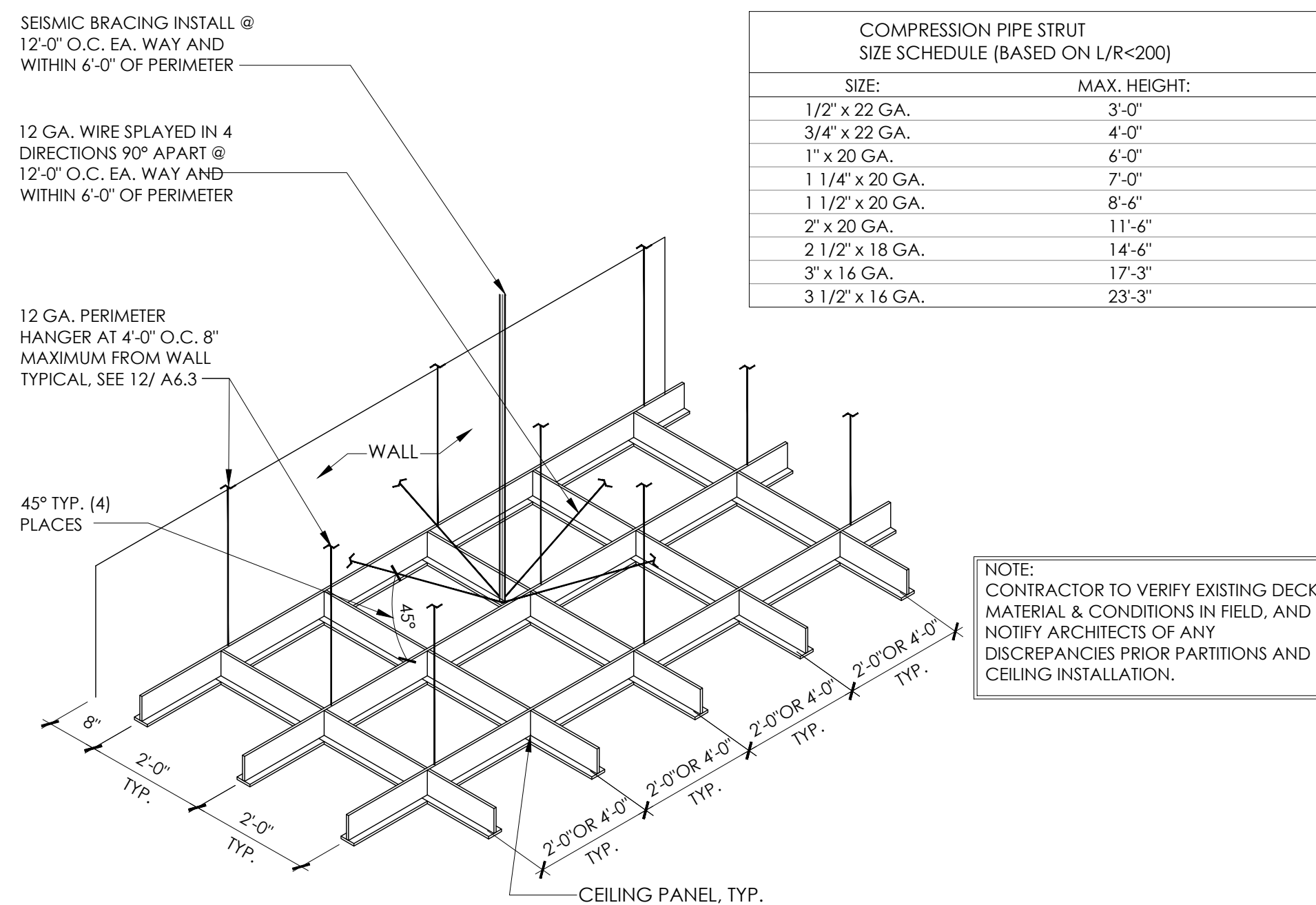
- CAUTION! WHEN USING STUDS MANUFACTURED BY A COMPANY OTHER THEN SSMA, VERIFY MANUFACTURERS STUD STRENGTH AND LIMITING HEIGHT. ADJUST GAUGE AND MAXIMUM HEIGHT RECOMMENDED BY MANUFACTURERS CURRENT PRINTED SPECIFICATION.
- LATERAL LOADS MULTIPLIED BY .075 FOR STRENGTH DETERMINATION PER AISI A5.1.3
- CHECK END REACTIONS FOR WEB CRIPPLING.
- LIMITING HEIGHTS BASED ON CONTINUOUS SUPPORT OF EACH FLANGE OVER THE FULL LENGTH OF THE STUD.
- HEIGHTS BASED ON STEEL PROPERTIES ONLY.
- FOR 350S125 MEMBERS USE VALUES LISTED FOR 362S125.
- CALCULATIONS FOR 362S125 ARE BASED ON 350S125 PROPERTIES.





GRID ATTACHMENT AT ACT

SCALE: NTS 12

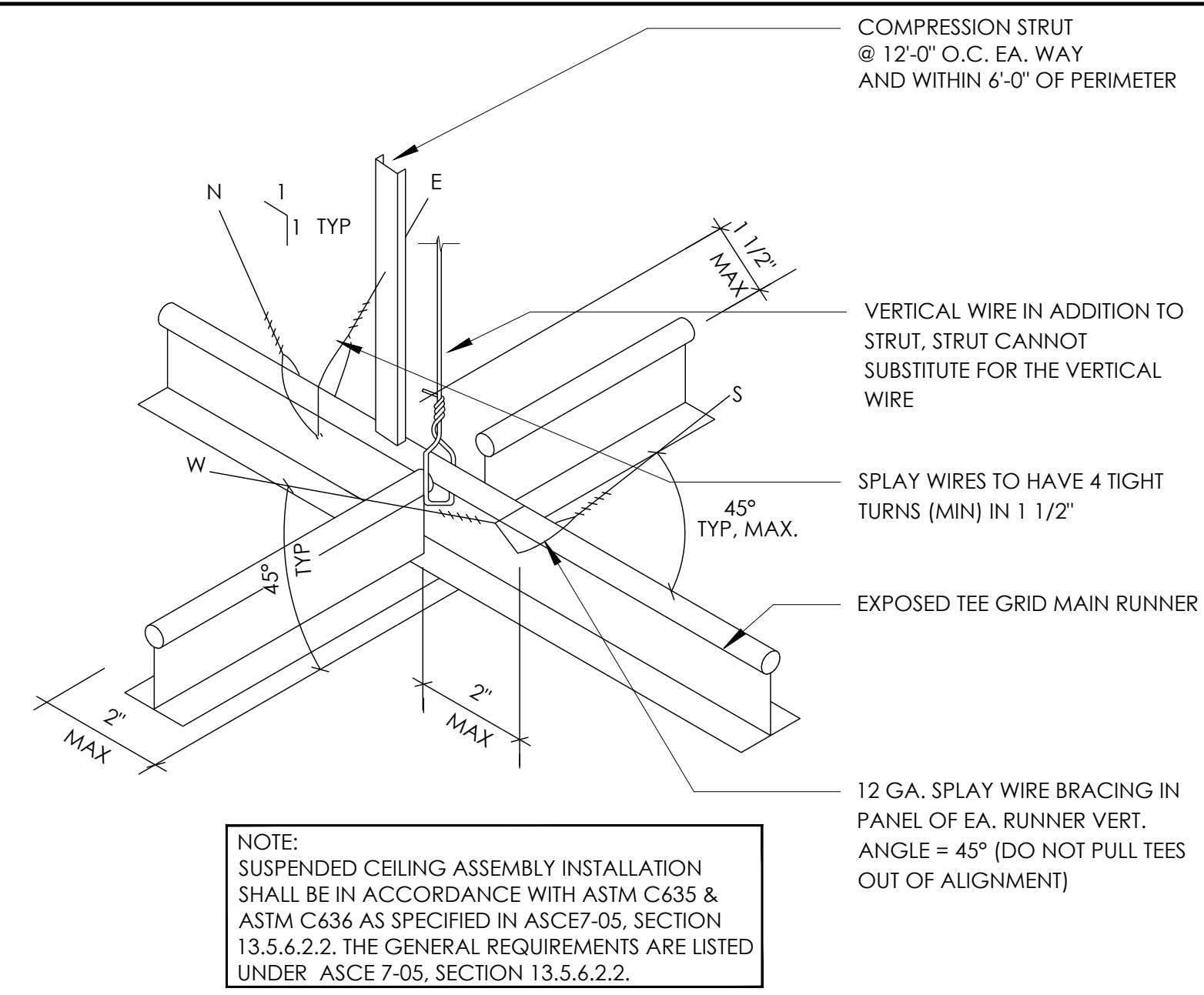


GENERAL NOTES

- VERTICAL STRUT: A STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBER SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL SEISMIC COMPONENT INDUCED BY THE BRACING WIRES.
- THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12'-0" ON CENTER IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6'-0" FROM WALL.
- PERIMETER HANGERS SHALL BE PLACED IN BOTH DIRECTIONS WITHIN 8 INCHES OF THE WALL.
- SPICES AND INTERSECTIONS OF RUNNERS SHALL BE ATTACHED WITH MECHANICAL INTERLOCKING CONNECTORS SUCH AS POP RIVETS, SCREWS, PIN PLATES WITH BENT TABS OR OTHER APPROVED CONNECTIONS FOR 2X DESIGN LEAD OR ULTIMATE AXIAL TENSION OR COMPRESSION (MINIMUM 60 LBS.) OR CROSS FURRING SHALL BE SECURELY ATTACHED TO THE MAIN RUNNER BY SADDLE, TYING WITH NOT LESS THAN ONE STRAND OF NO. 12 THE MAIN RUNNER AND CROSS FURRING SHALL BE NOT LESS THAN THE SIZE SET FORTH IN TABLE 47-A EXCEPT THAT THE OTHER STEEL SECTIONS OF EQUIVALENT STRENGTH MAY BE SUBSTITUTED FOR THOSE SET FORTH IN THIS TABLE.
- VERTICAL STUD MAY BE STEEL STUD, BLACK IRON, EMT CONSTRUCTION TYPES OR OTHER APPROVED GOOD FOR CONSTRUCTION TYPES.
- ALL 24"x48" CEILING LIGHT FIXTURES AND 24"x24" HVAC AIR REGISTERS SHALL BE SUPPORTED BY A MIN. OF (2) HANGERS @ OPP. CORNERS. CEILING SYSTEMS SHALL NOT SUPPORT OTHER ITEMS.

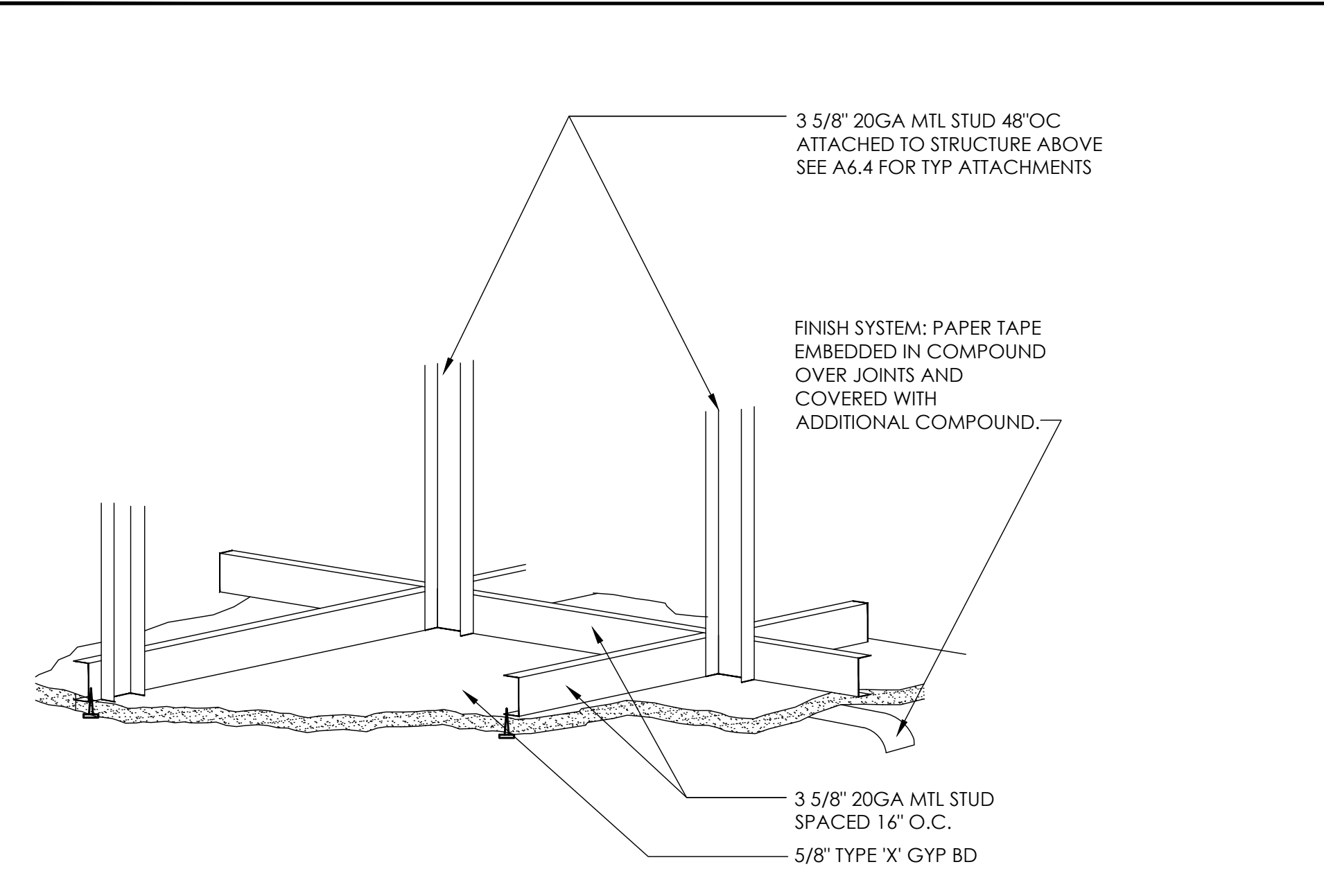
SUSPENDED A.C.T. CEILING GRID

SCALE: NTS 3



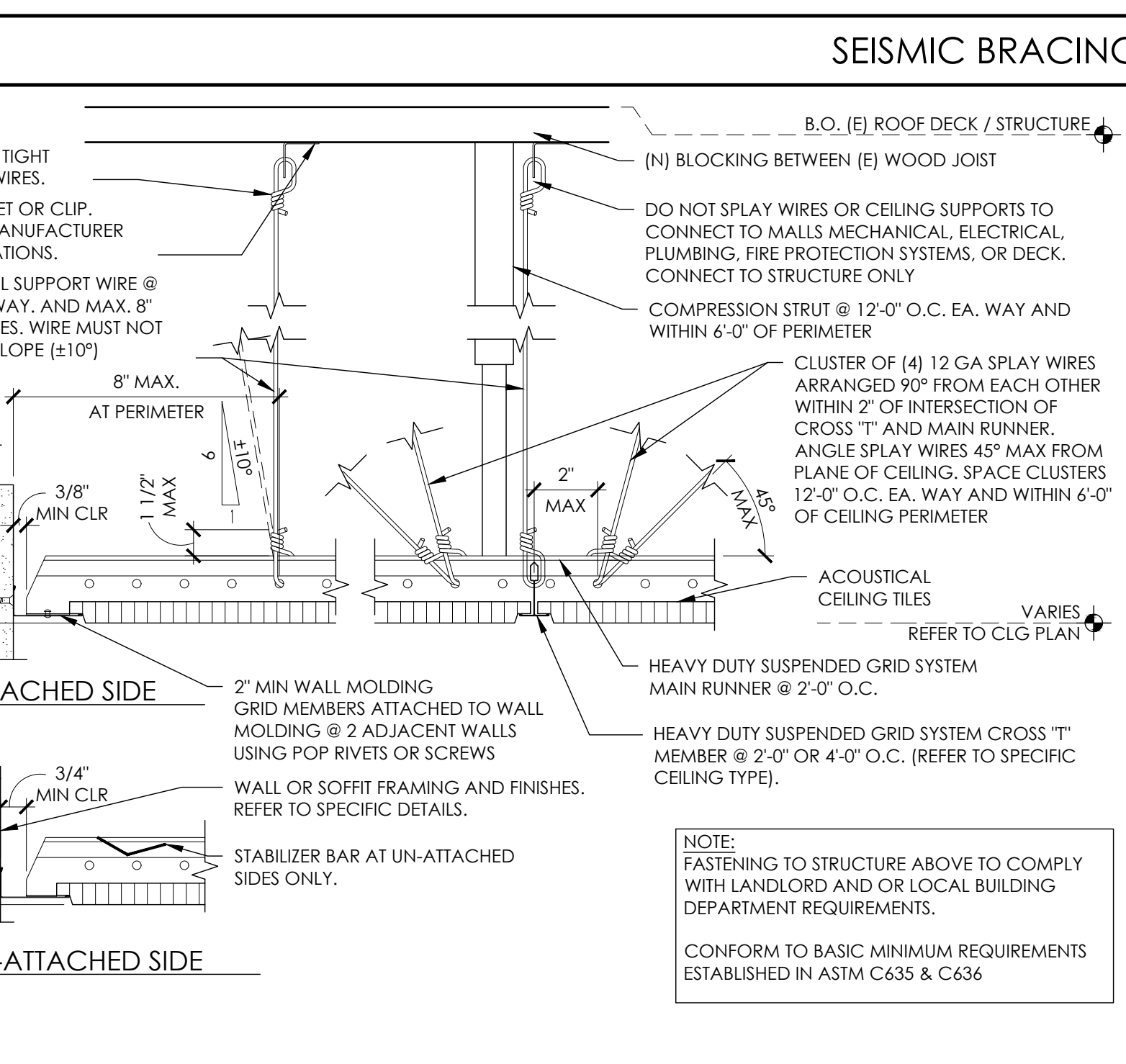
SEISMIC BRACING

SCALE: 3" = 1'-0" 11



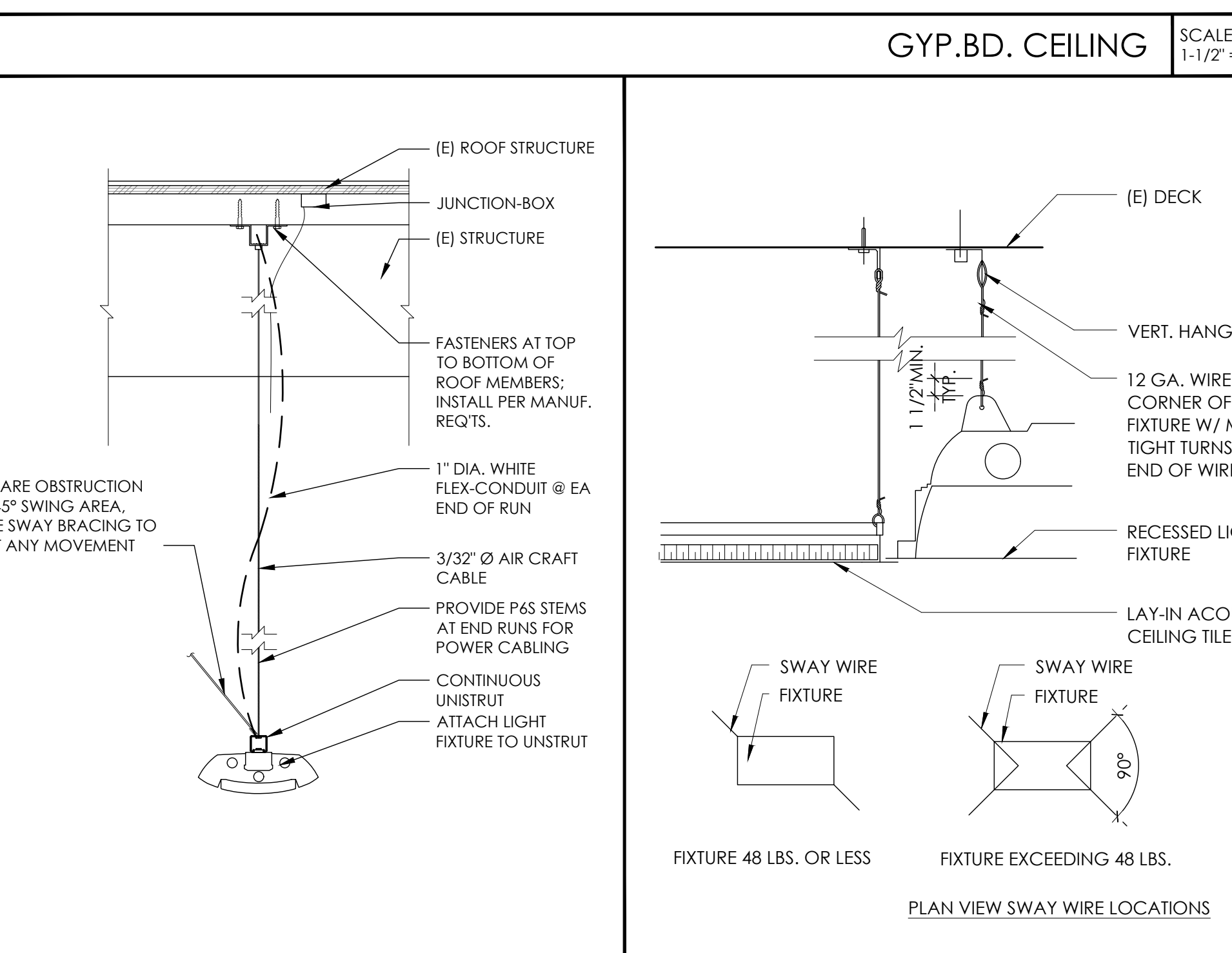
GYP.BD. CEILING

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



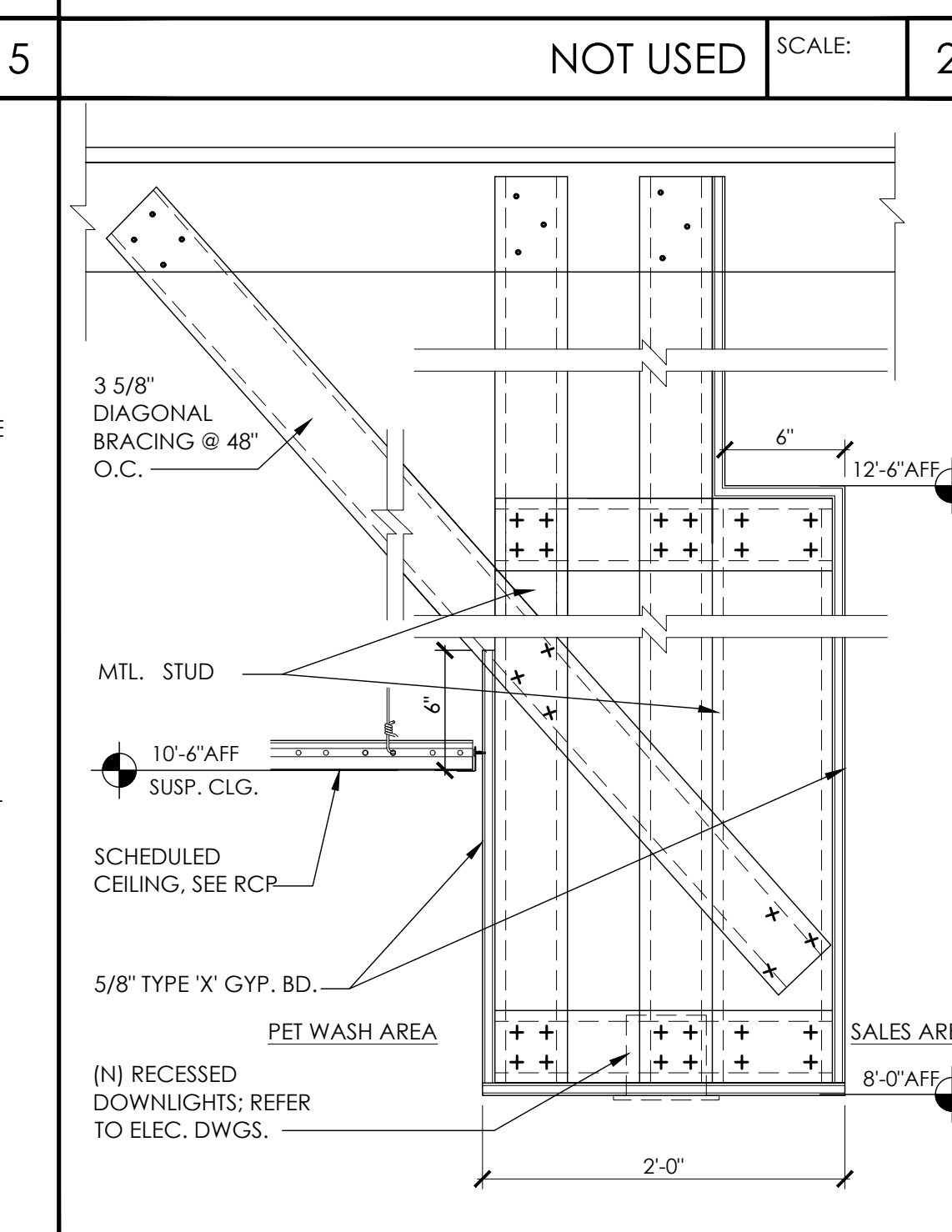
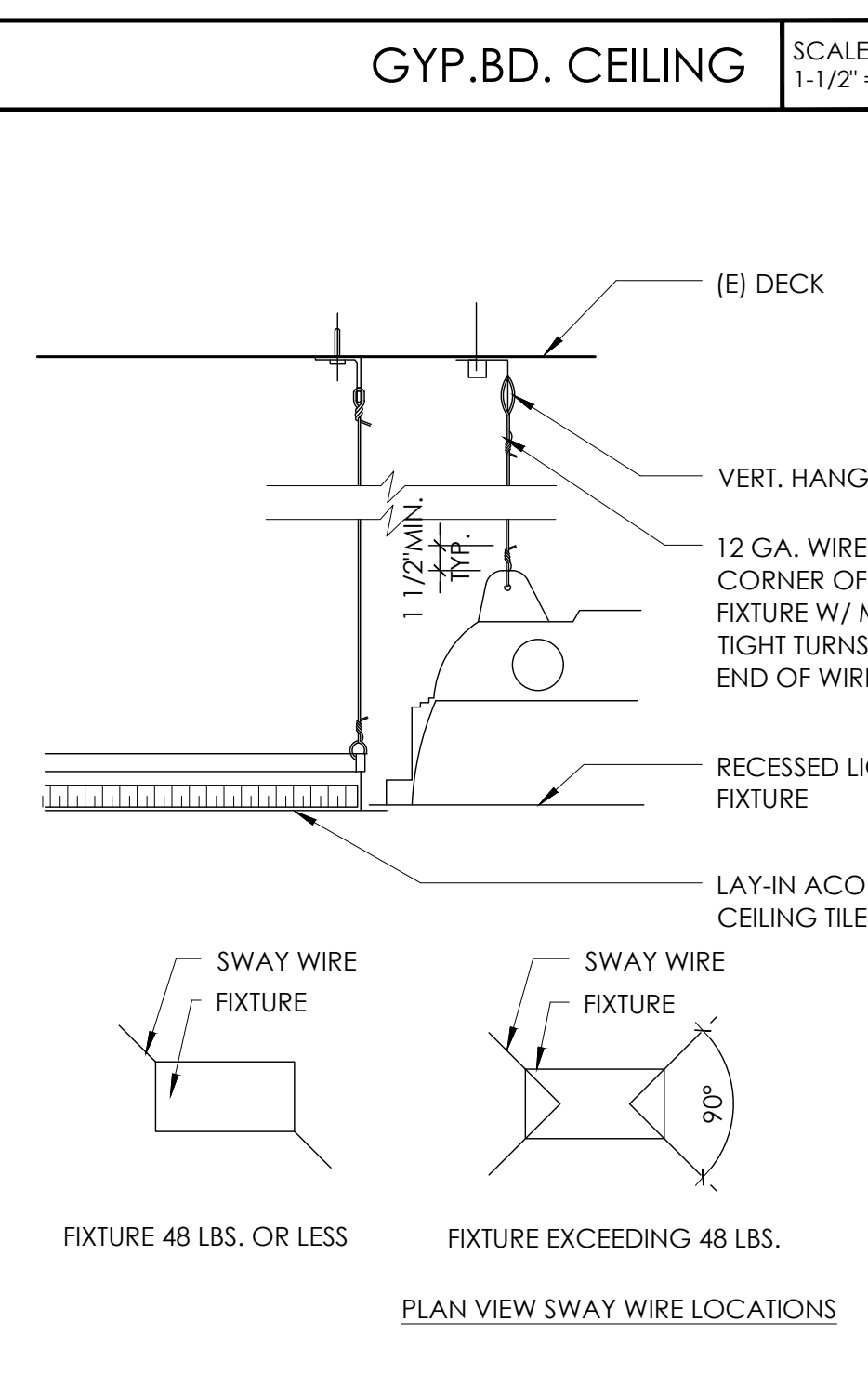
ACOUSTICAL CEILING TILE

SCALE: 3" = 1'-0" 10



SUSPENDED LIGHT DETAIL

SCALE: 1" = 1'-0" 7



GYP.BD. SOFFIT AT PET WASH

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

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REGISTRATION

CONSULTANT

UNAUTHORIZED CHANGES

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ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

PROJECT LOCATION

1 PET FOOD EXPRESS  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

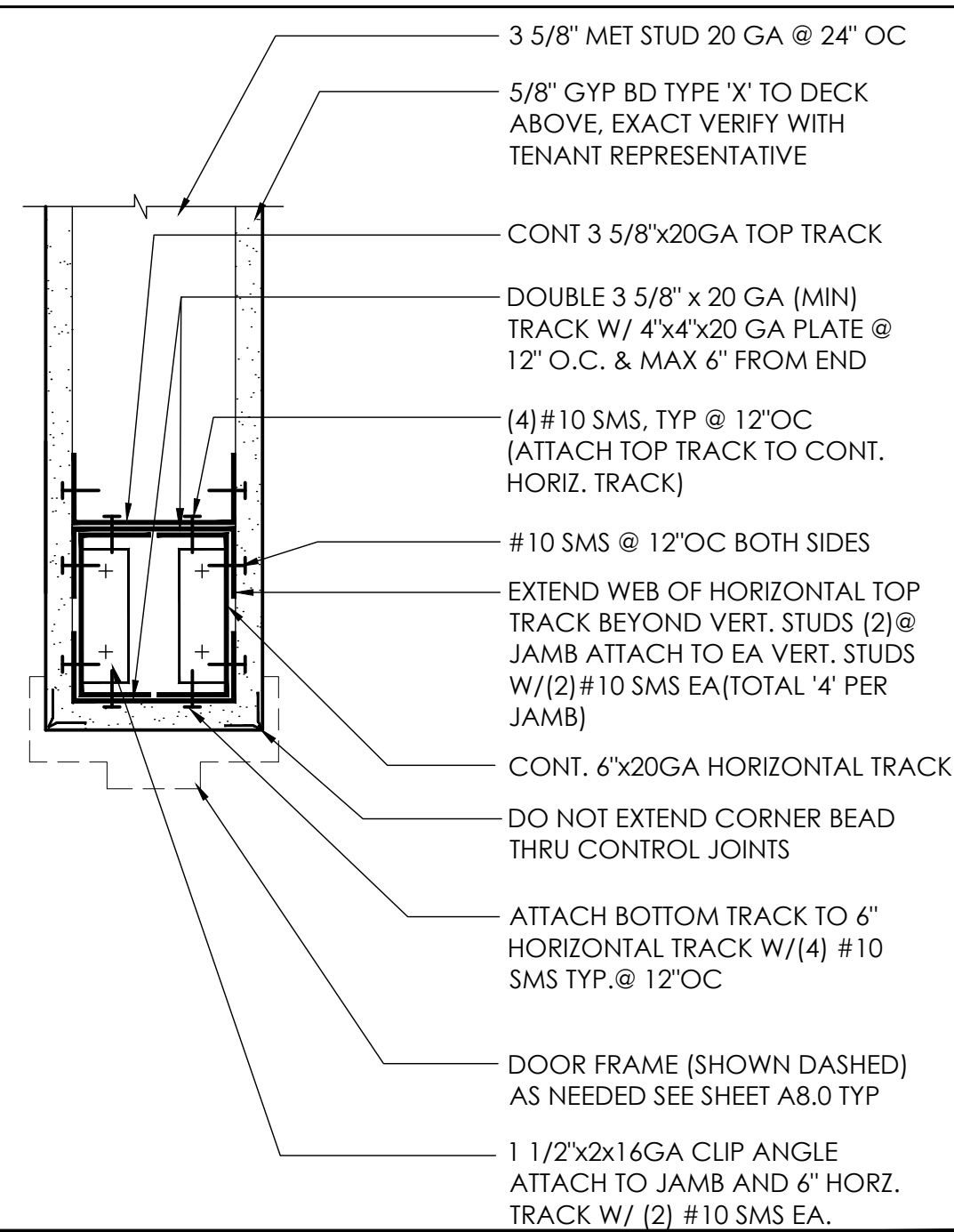
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CEILING DETAILS

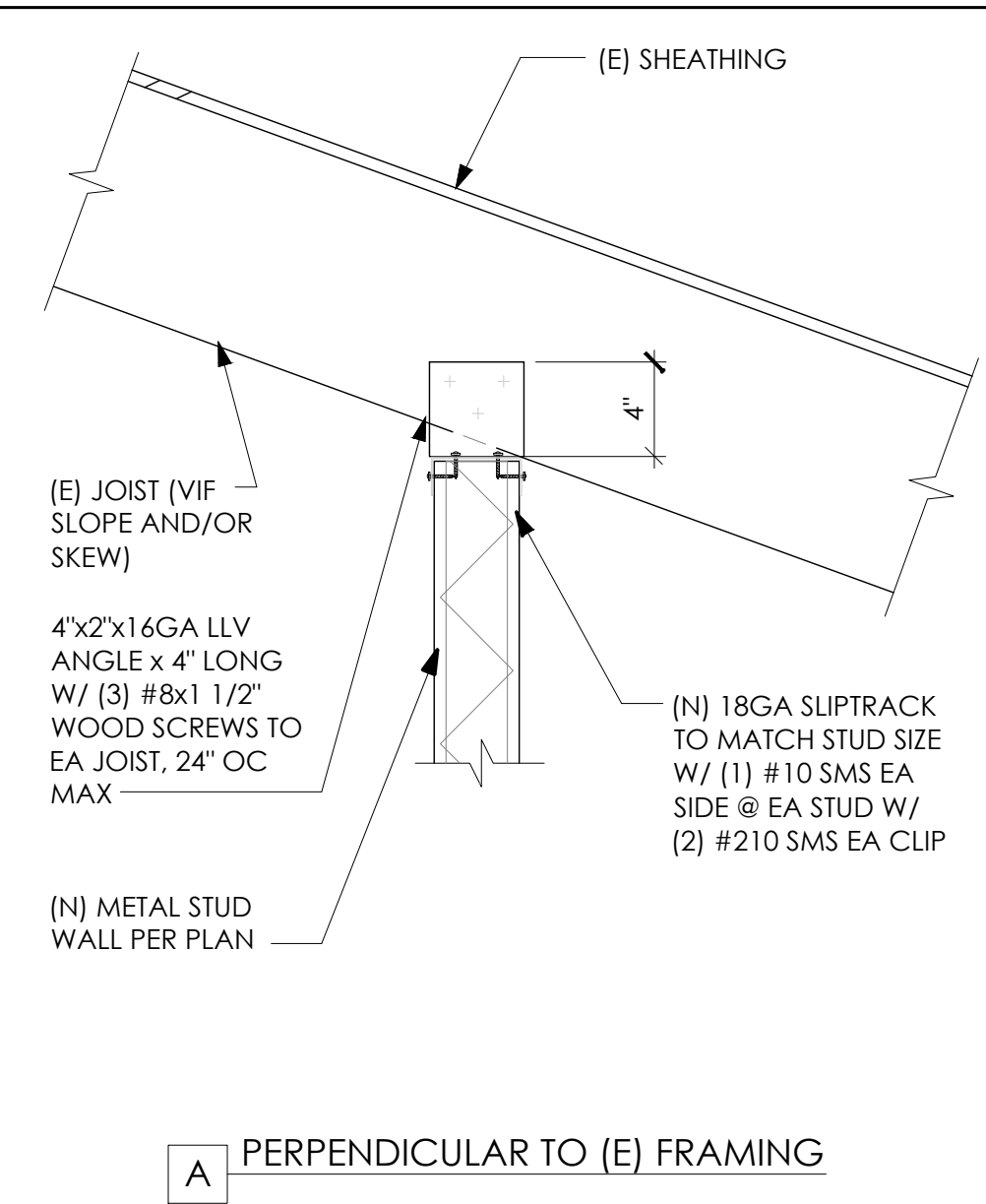
SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

A6.3

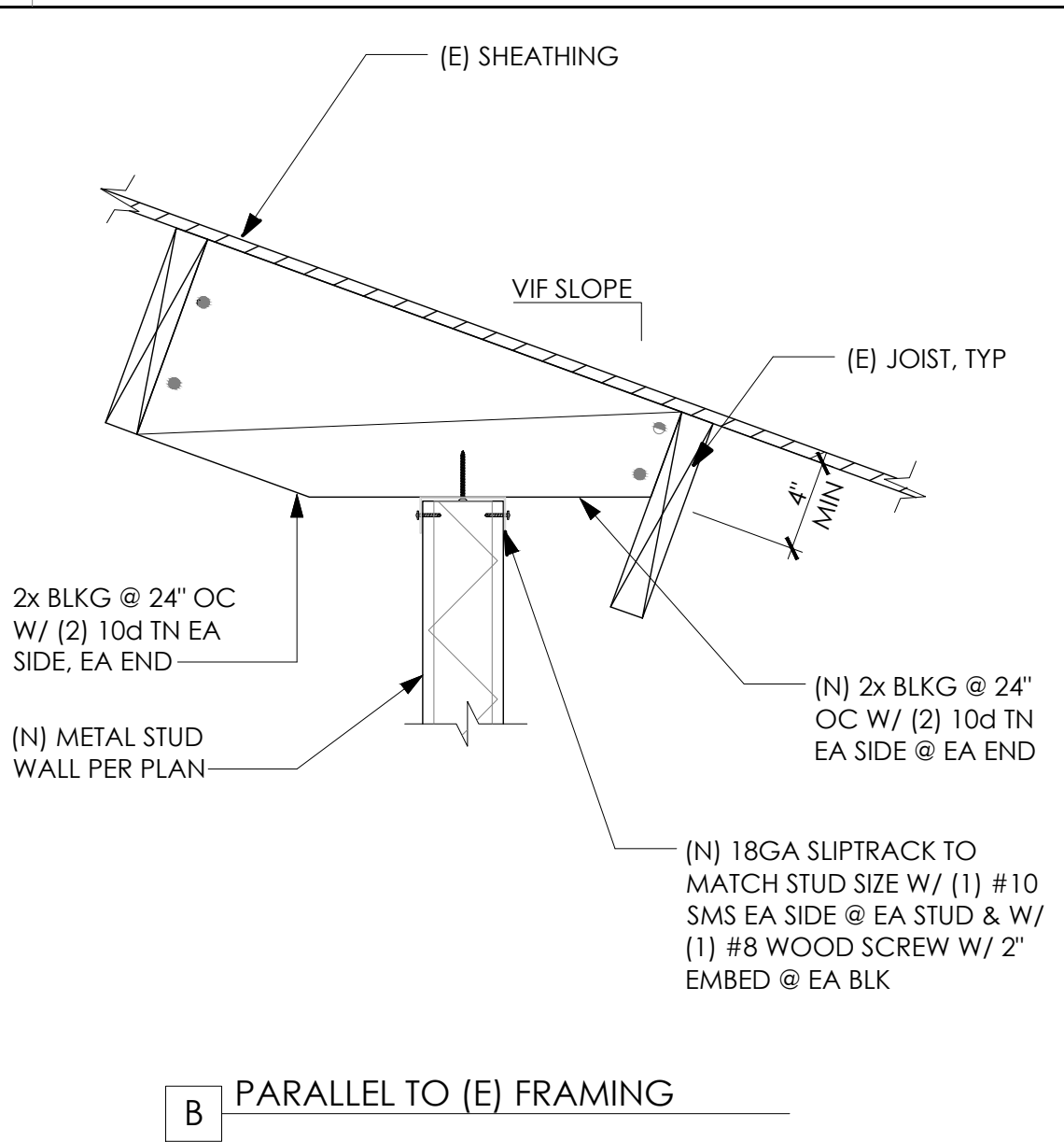




**ENLARGED HEADER DETAIL** SCALE: 3\"/>

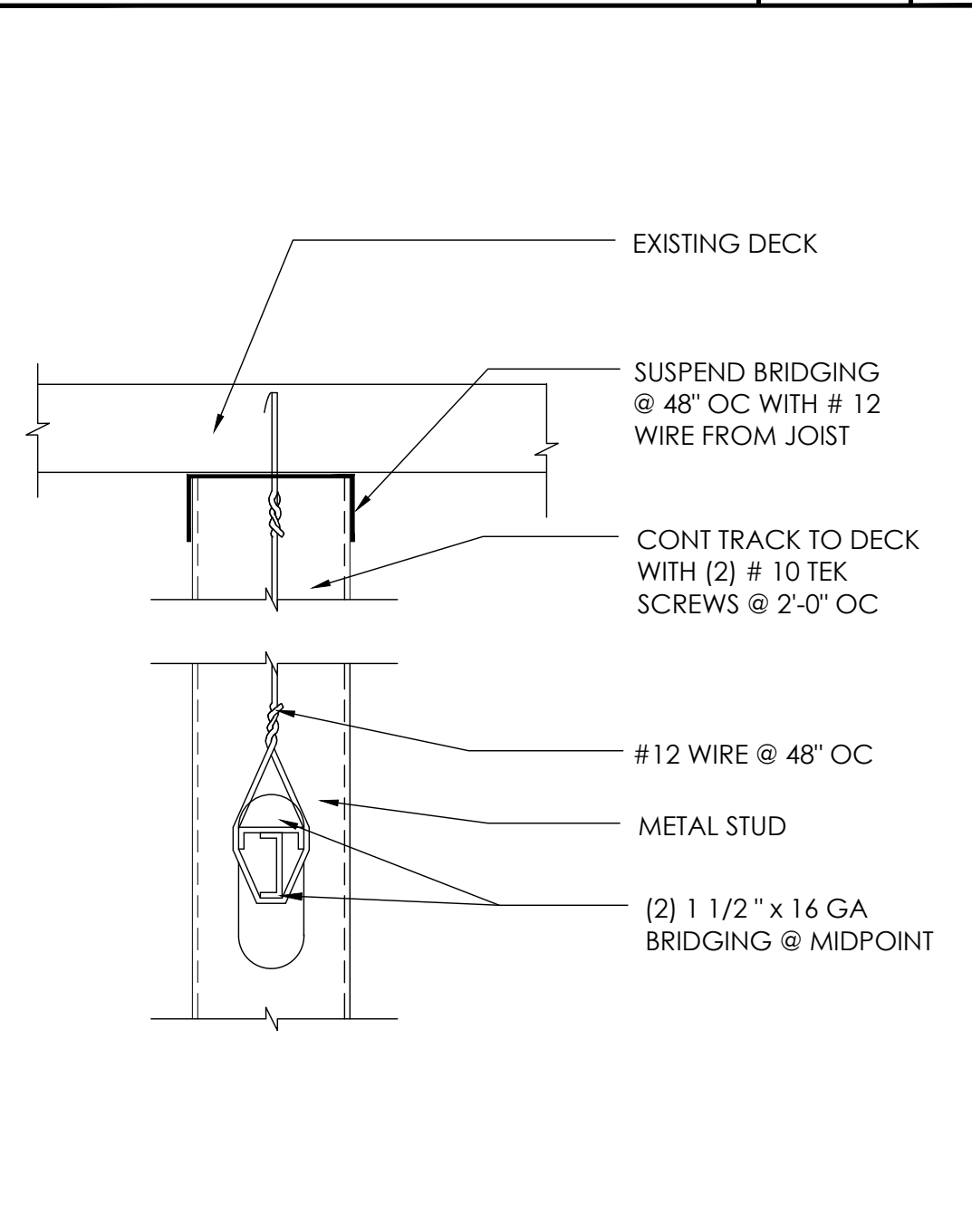


**A PERPENDICULAR TO (E) FRAMING**

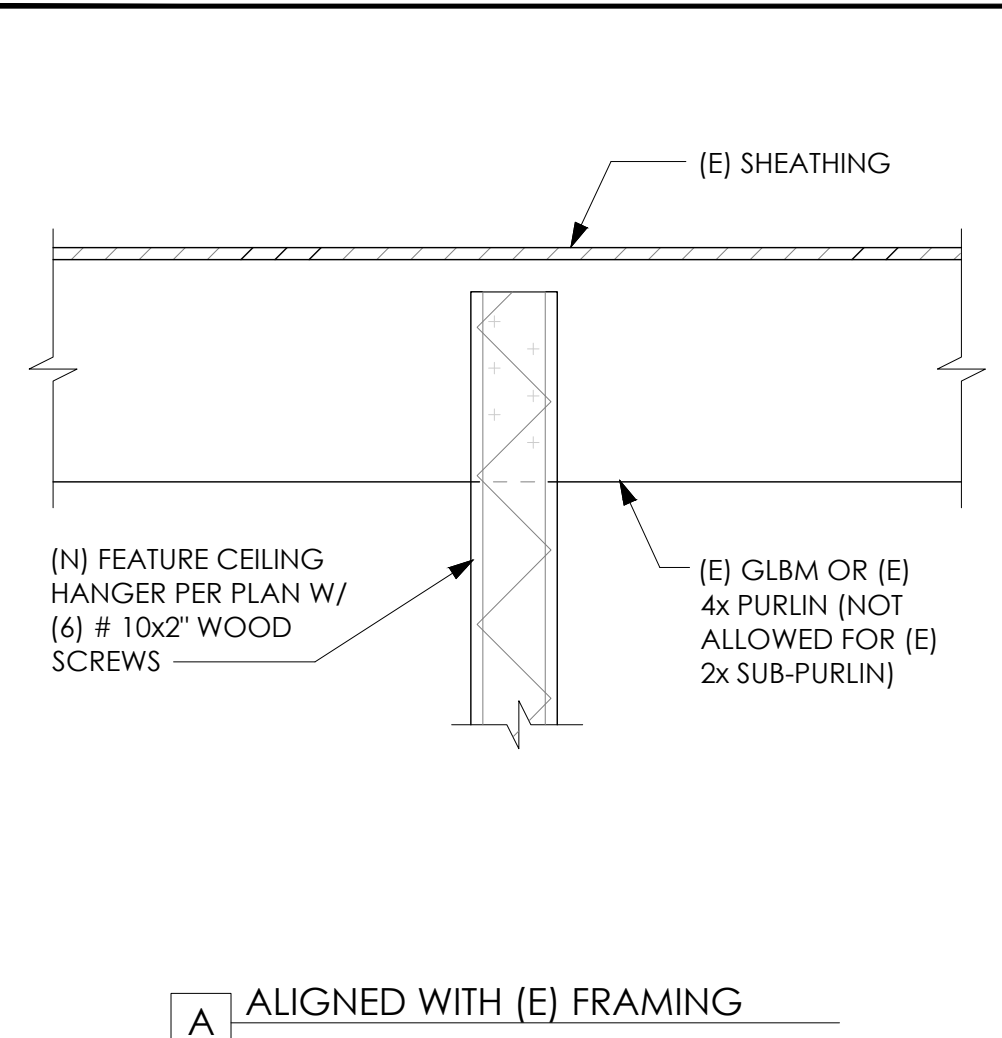


**B PARALLEL TO (E) FRAMING**

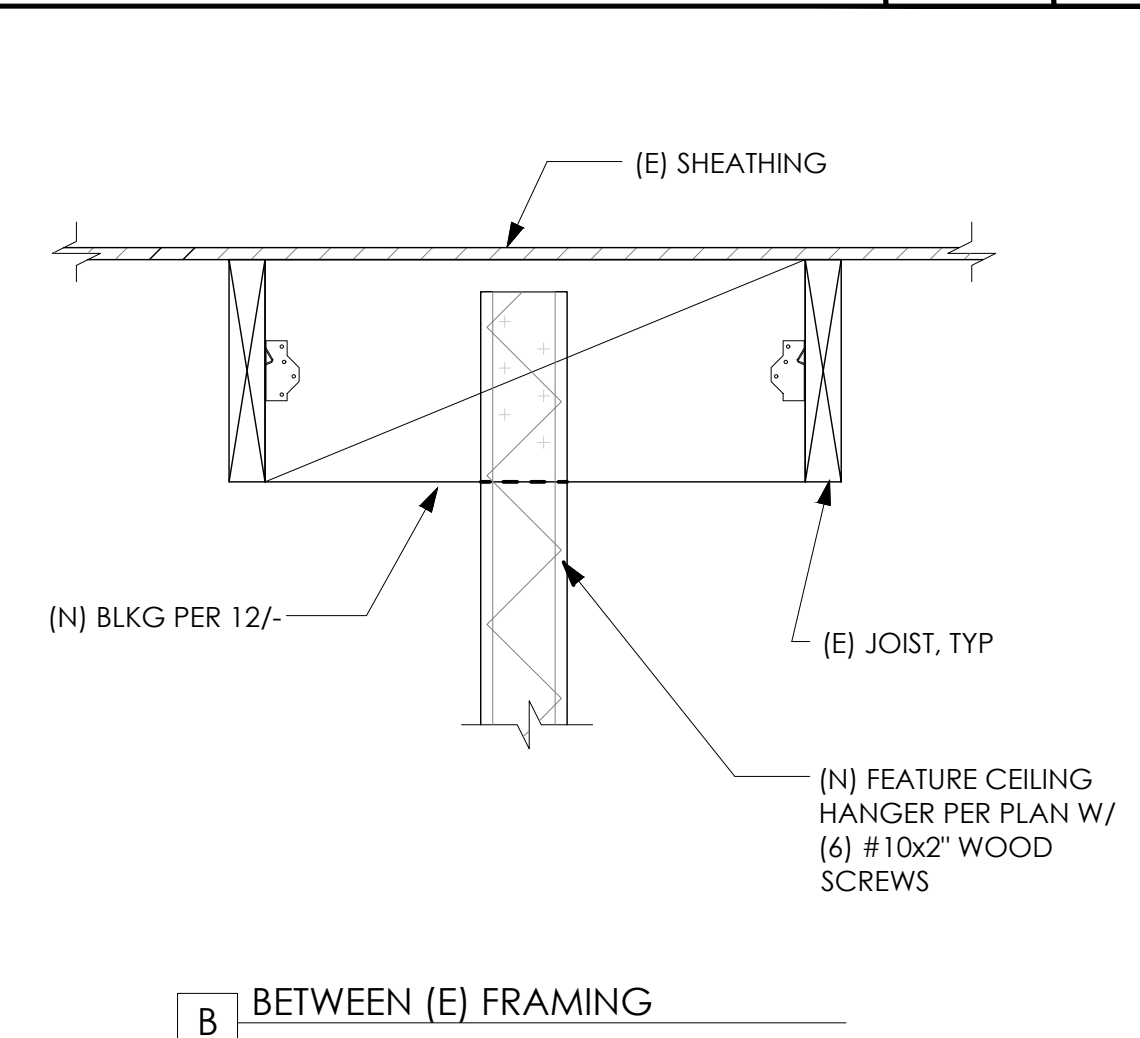
**TYP. FULL HEIGHT WALL ANCHORAGE** SCALE: NTS 3



**BRIDGING DETAIL** SCALE: 3\"/>

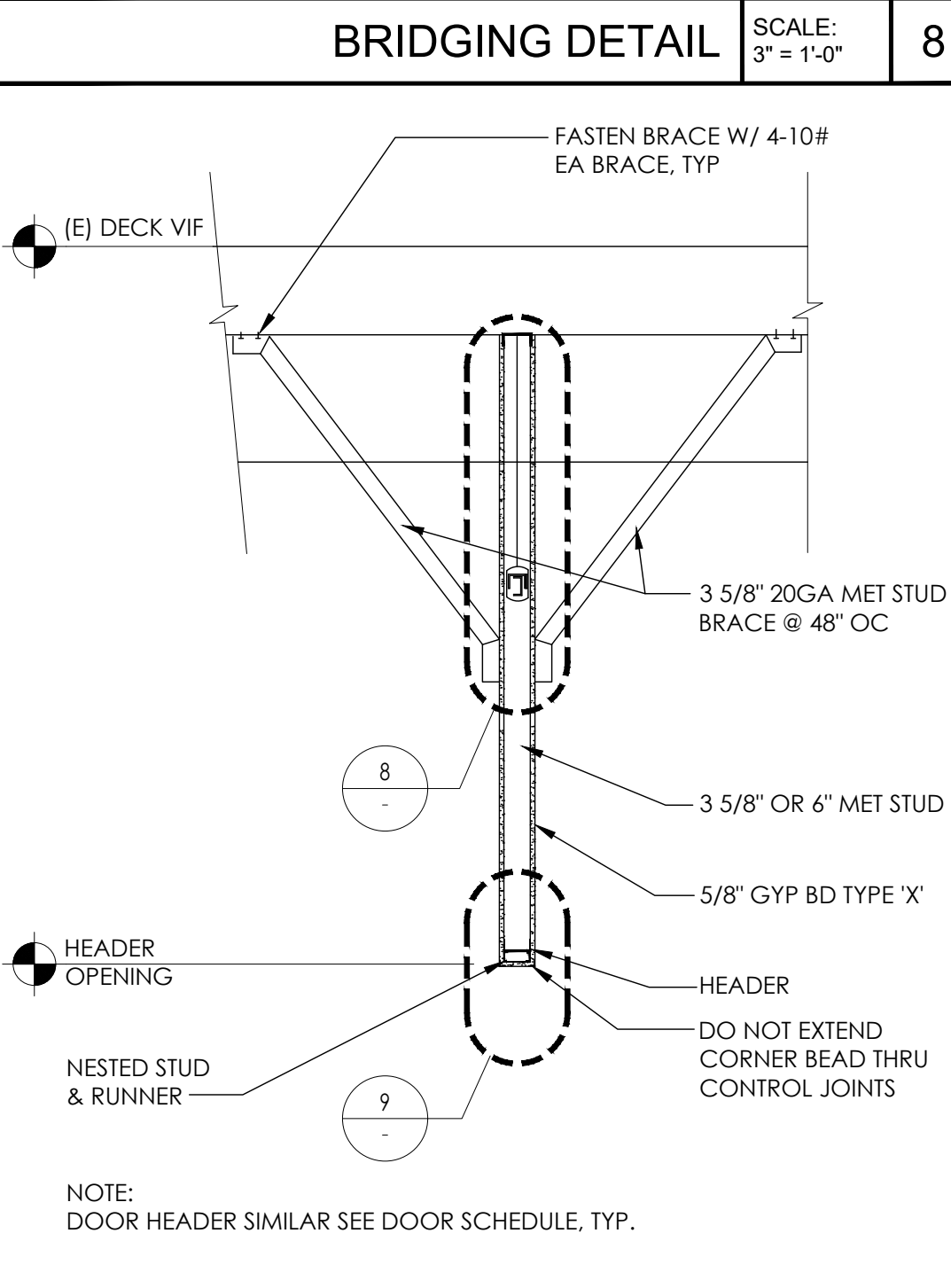


**A ALIGNED WITH (E) FRAMING**

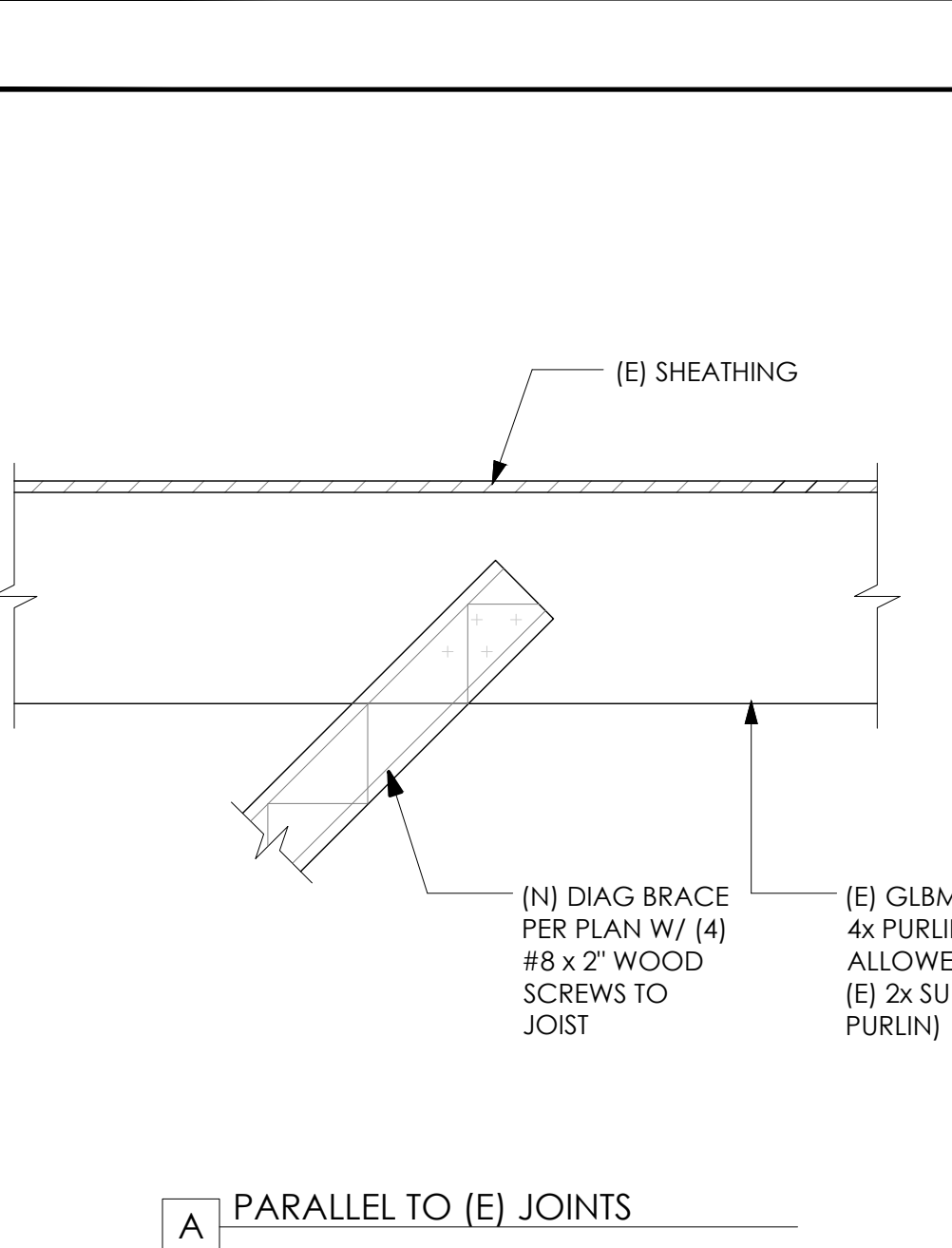


**B BETWEEN (E) FRAMING**

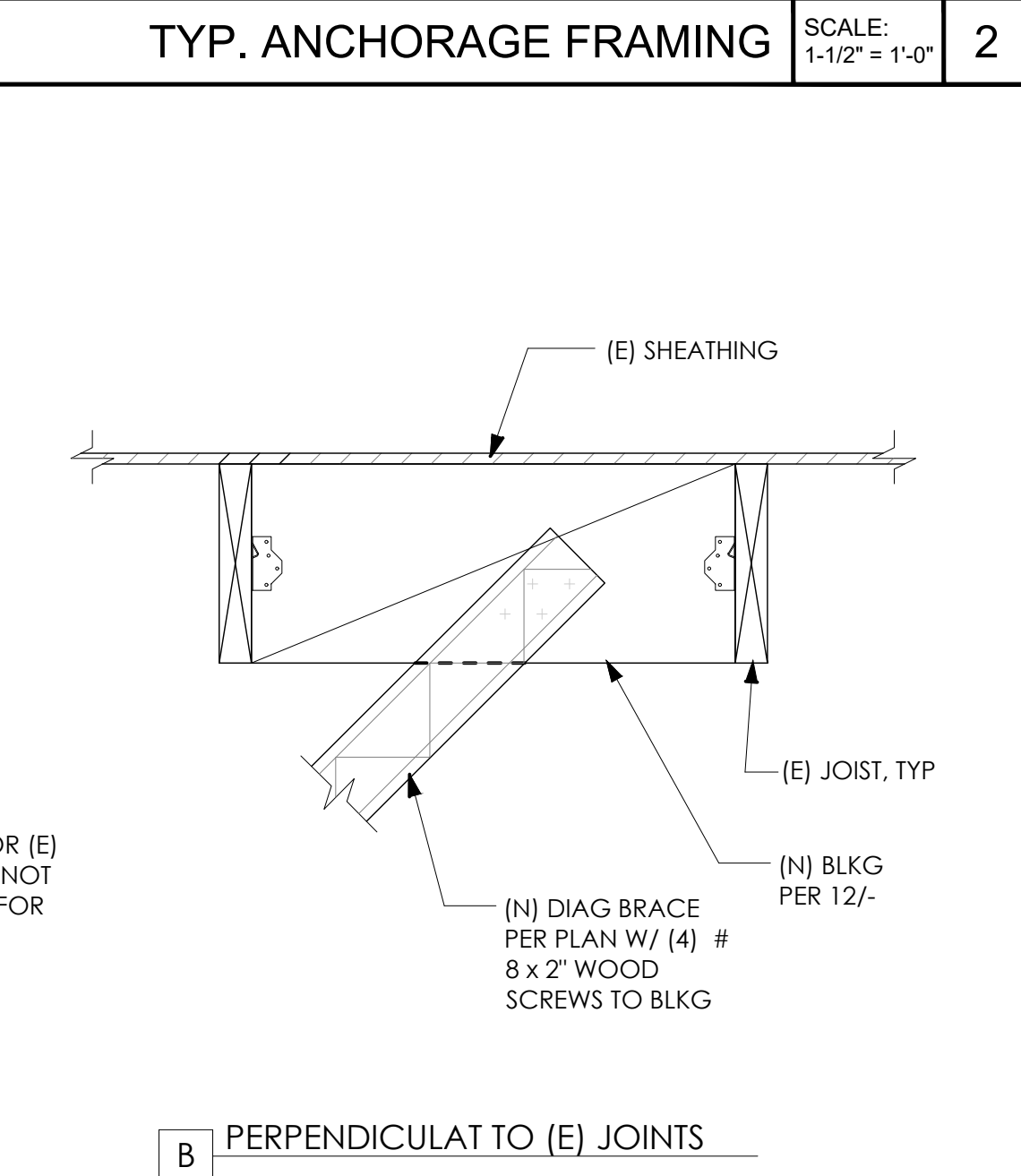
**TYP. ANCHORAGE FRAMING** SCALE: 1-1/2\"/>



**HEADER DETAIL TYP.** SCALE: 1/2\"/>



**A PARALLEL TO (E) JOINTS**



**B PERPENDICULAR TO (E) JOINTS**

**TYP. DIAGONAL WALL BRACE ANCHORAGE** SCALE: 1-1/2\"/>

**NOT USED** SCALE: - 10

**CLIENT**

**ARCHITECT**

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**REGISTRATION**

**CONSULTANT**

**UNAUTHORIZED CHANGES**

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**ISSUE / REVISION**

NO.	DATE	REVISION NAME
4.19.19		ISSUE FOR PERMIT
6.10.19		REVISION 1
9.13.19		BID SET

**PROJECT LOCATION**

**PET FOOD EXPRESS**  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

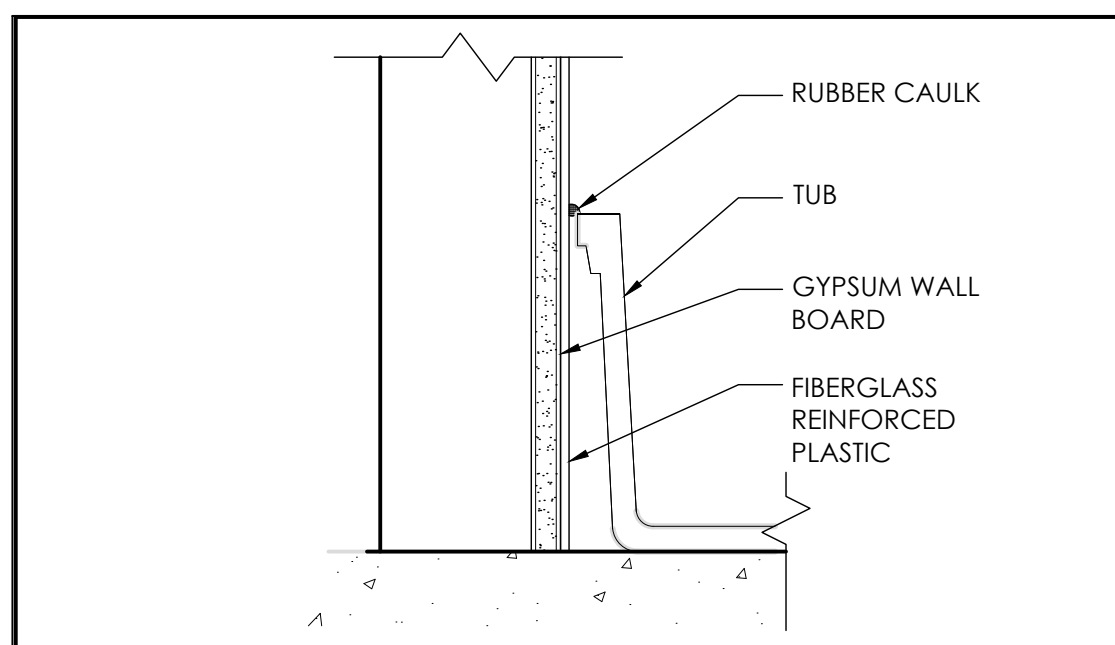
**DRAWING TITLE**

**CEILING DETAILS**

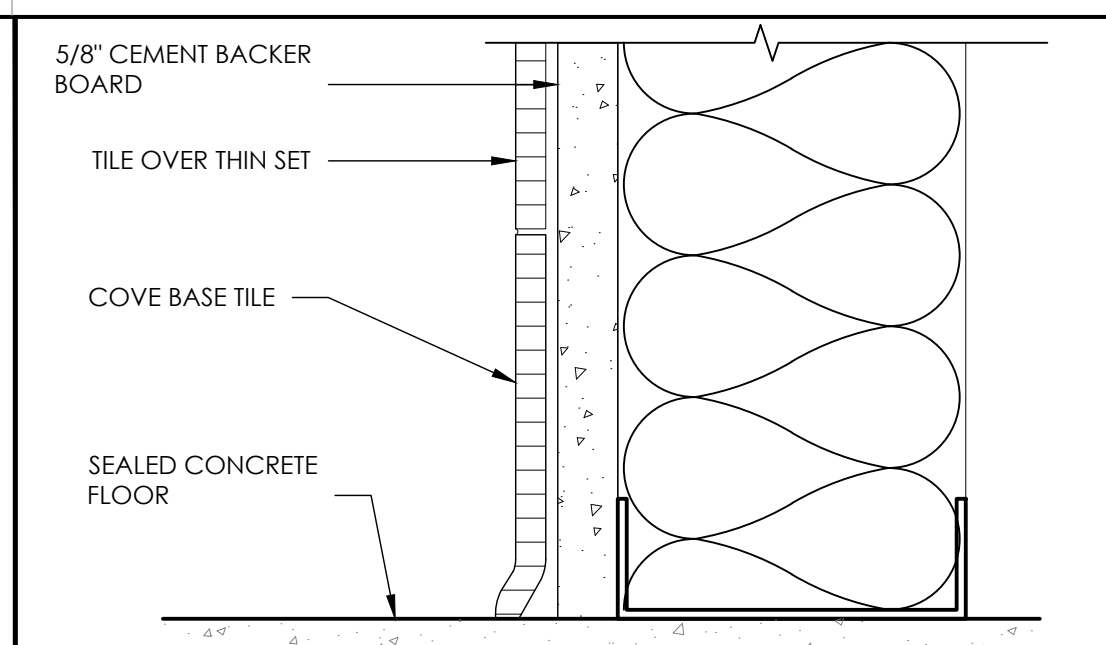
SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

**A6.4**

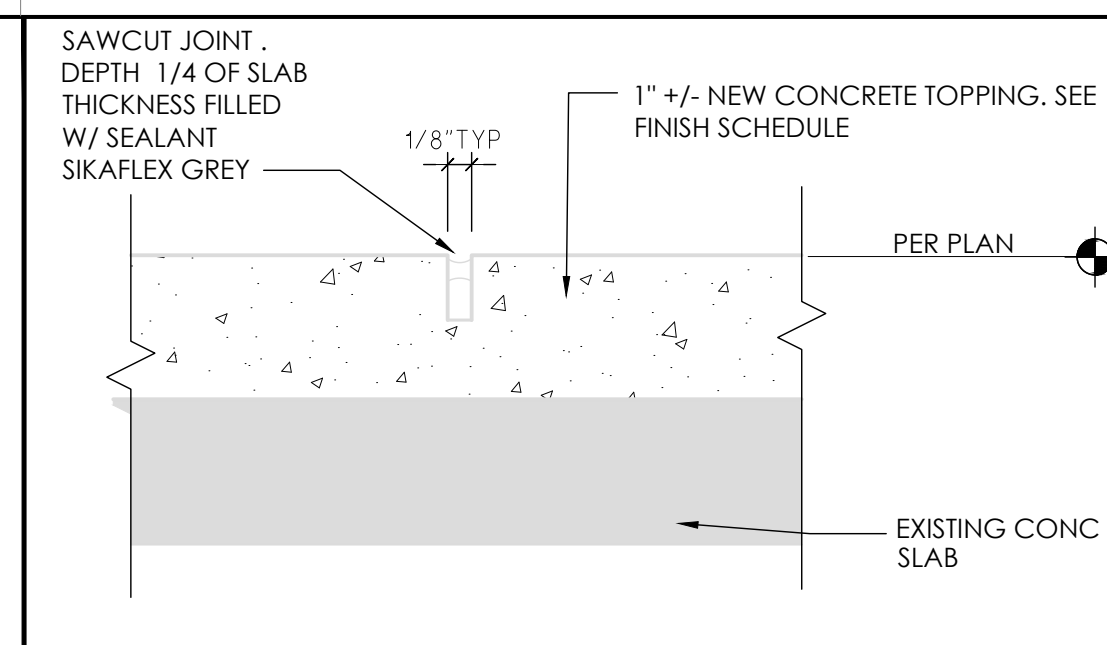




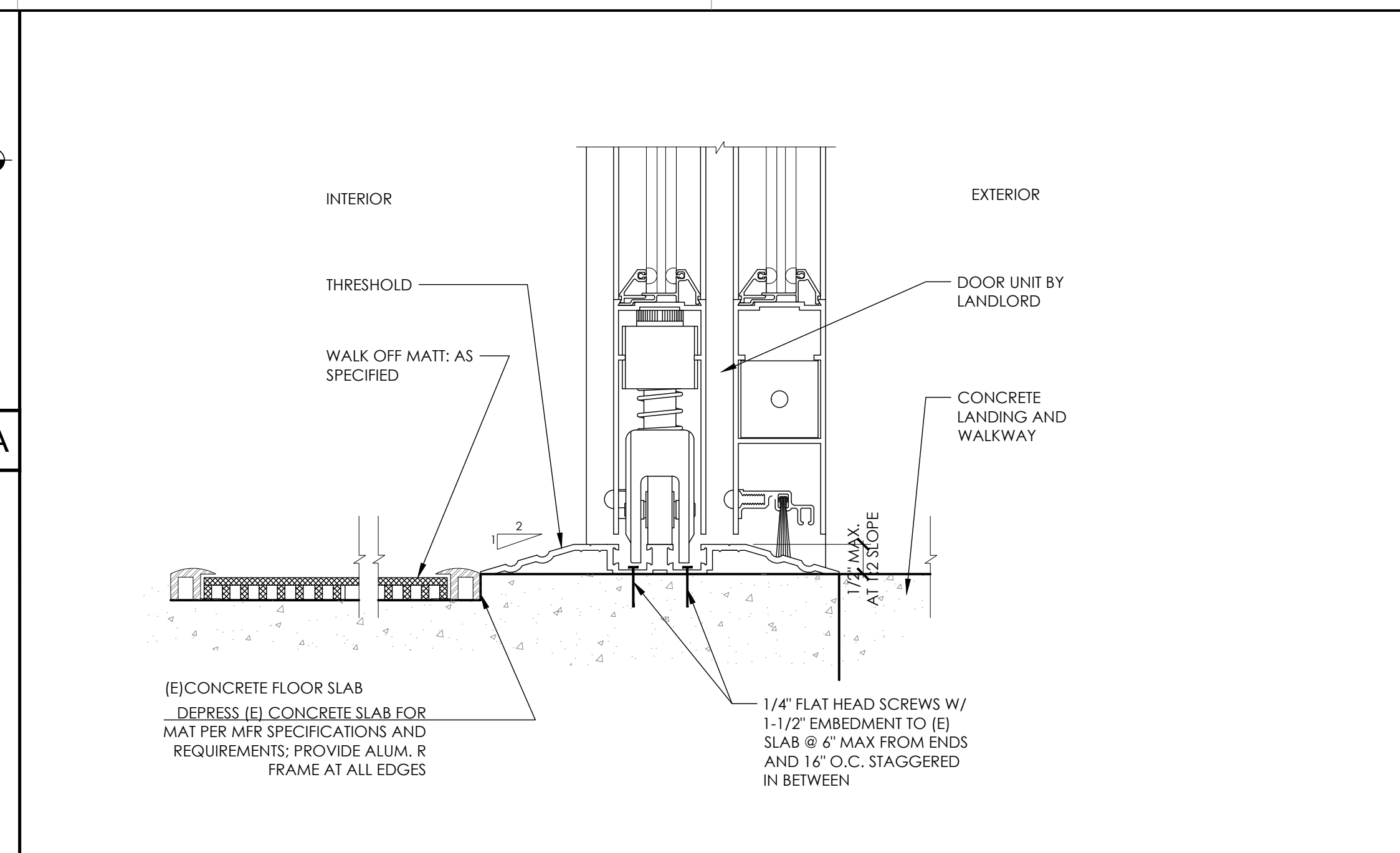
TRANSITION - FRP AT MOP SINK SCALE: 3" = 1'-0" 16



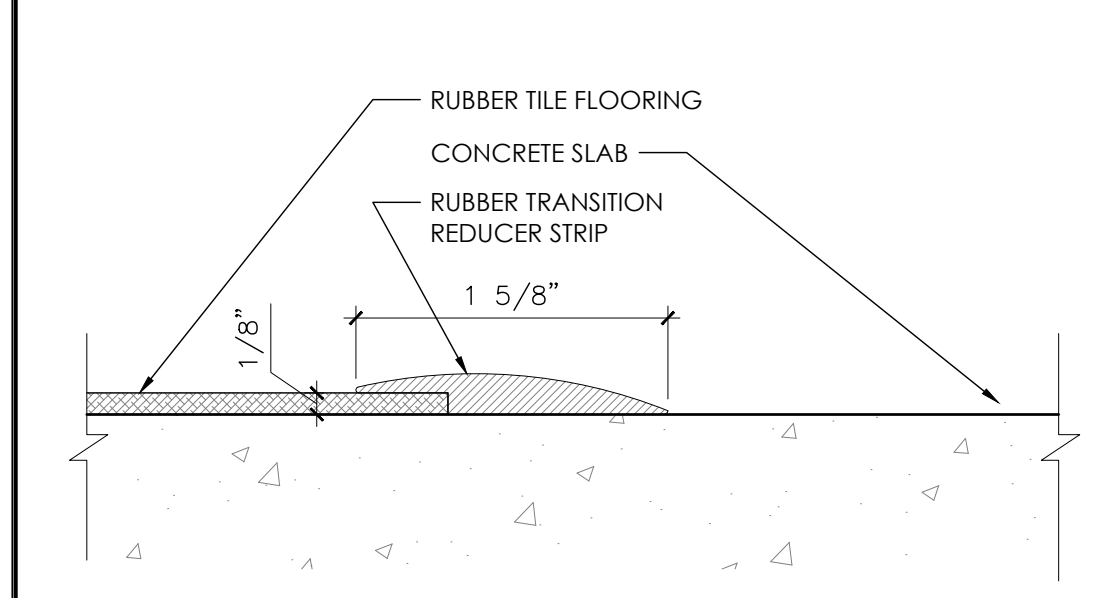
TILE COVE BASE AT CONC. FL SCALE: 6" = 1'-0" 12



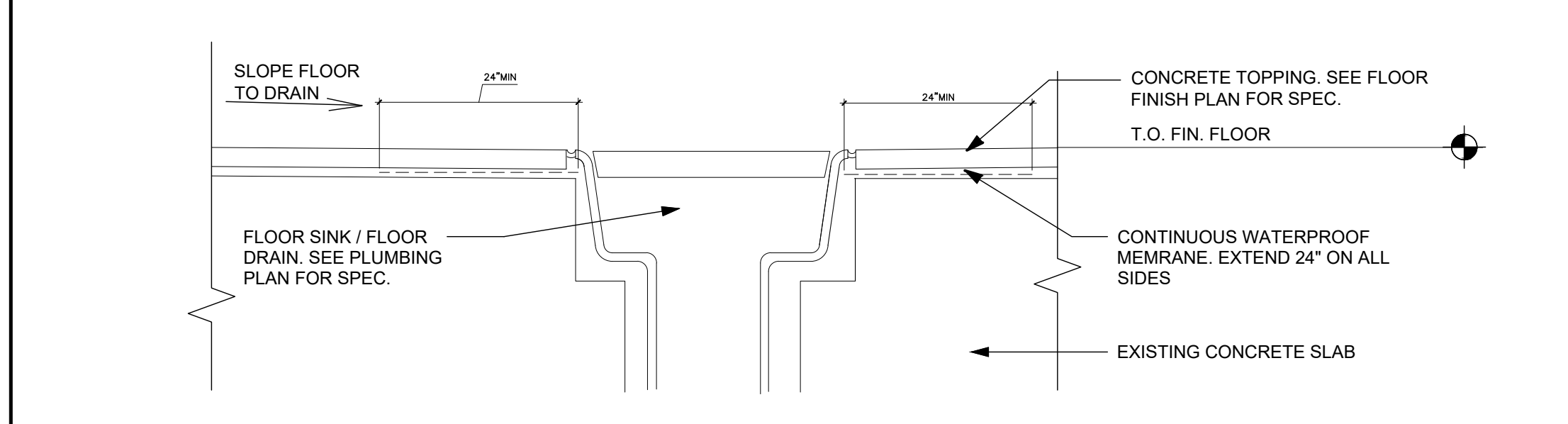
CONCRETE CONTROL JOINT SCALE: 3" = 1'-0" 9A



FLOOR TRANSITION - INSET FLOOR MAT SCALE: 6" = 1'-0" 3



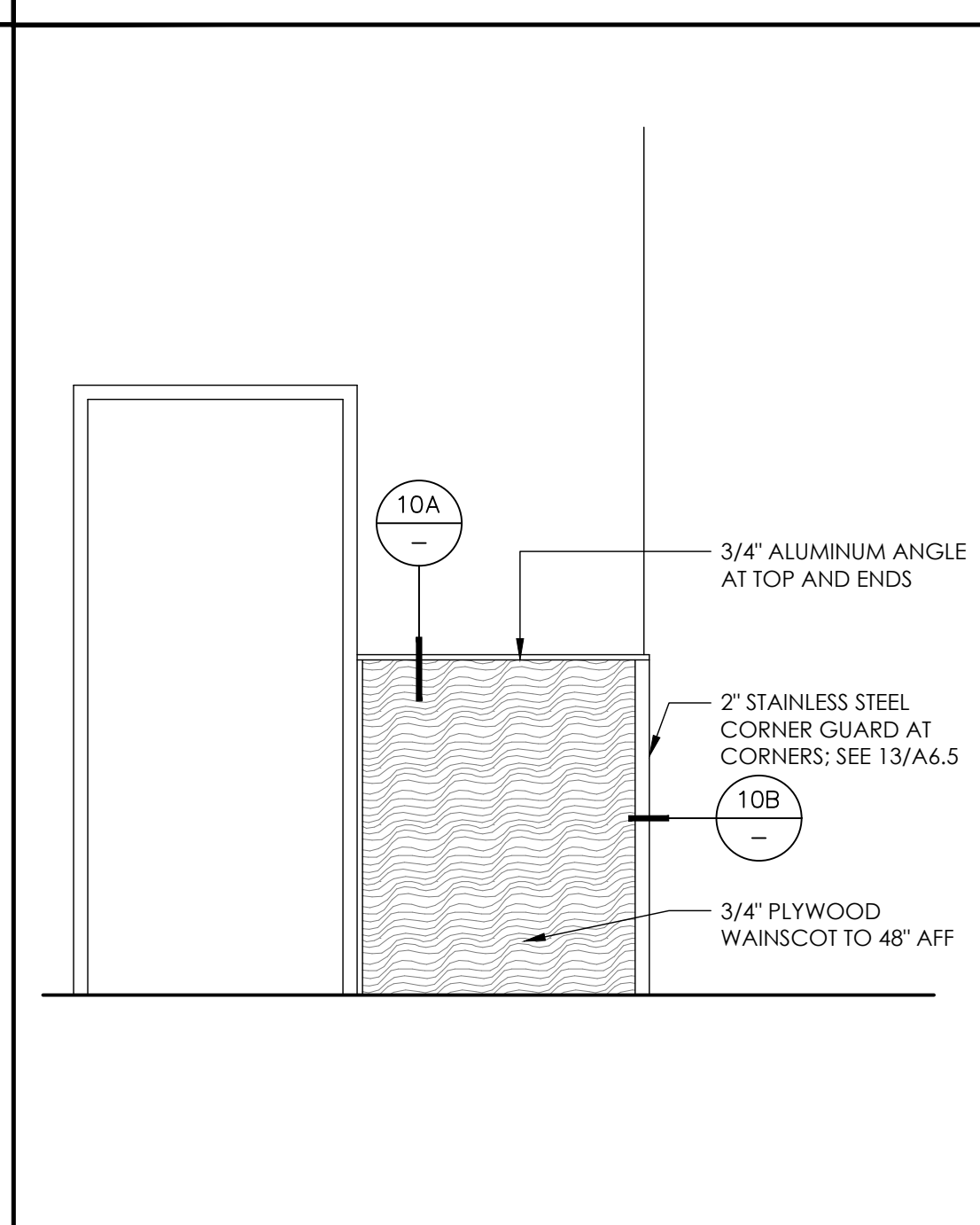
FLOOR TRANSITION - DOG PARK SCALE: 1'-0" = 1'-0" 15



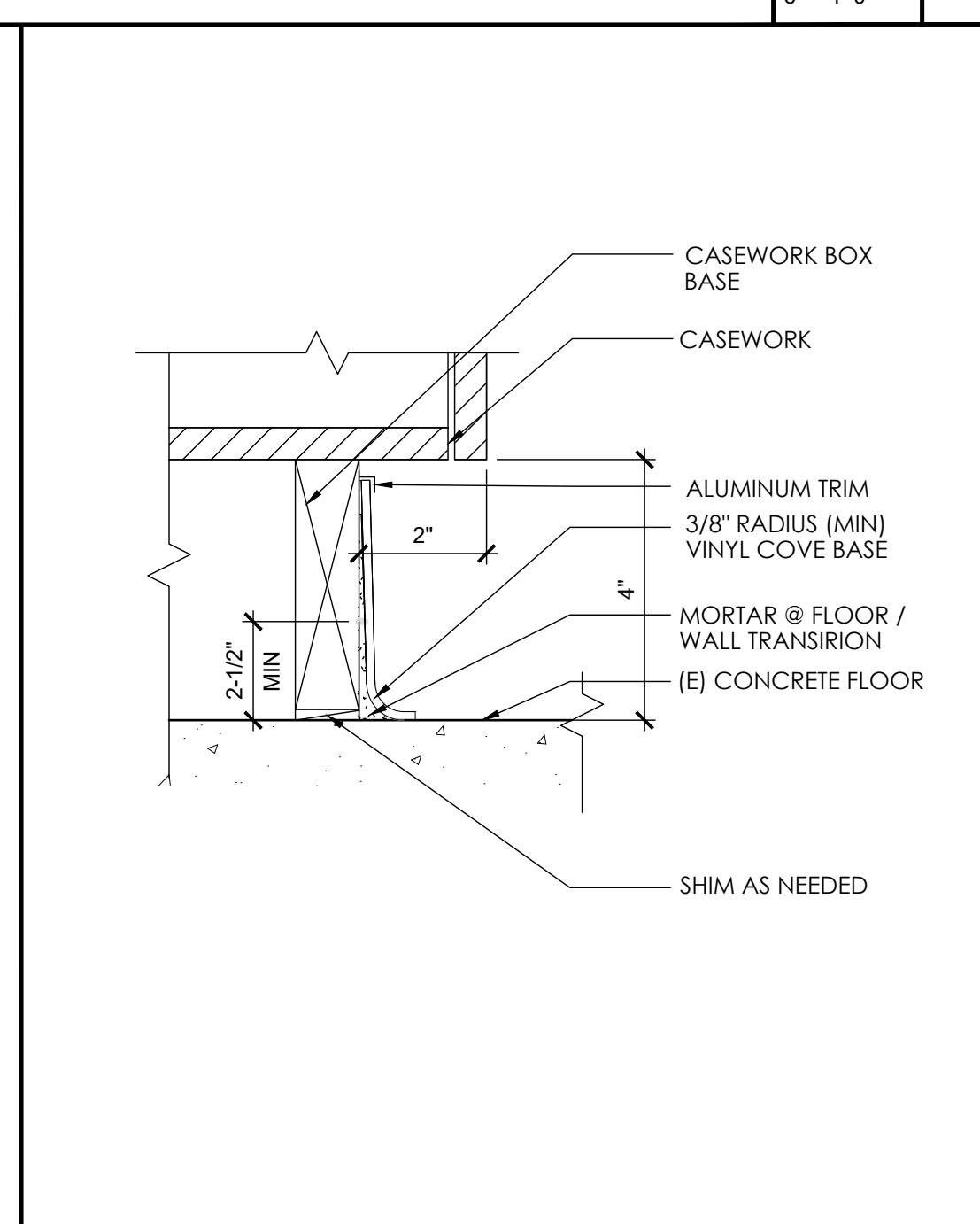
WATER BARRIER AT FLOOR SINK SCALE: 6" = 1'-0" 9



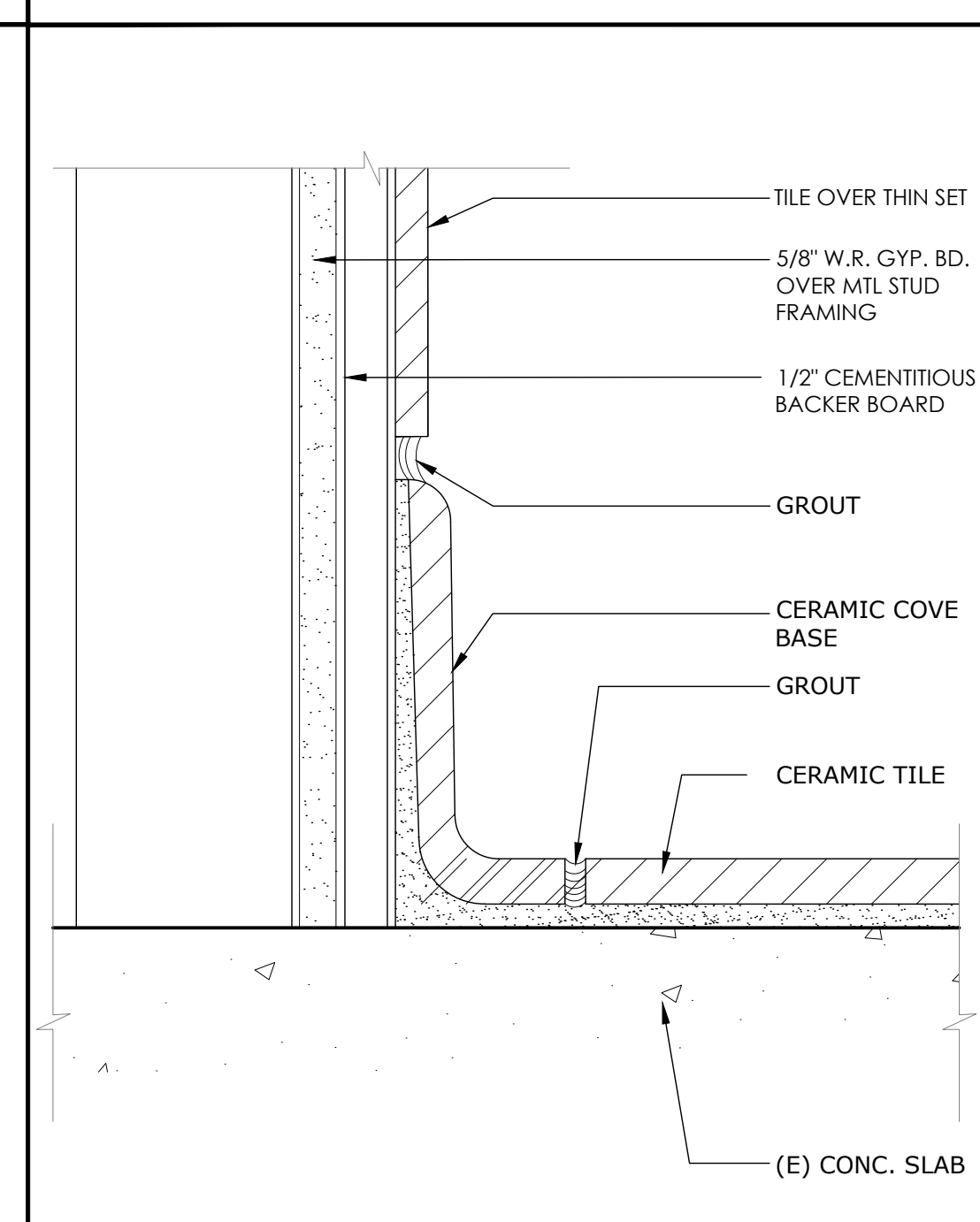
CORNER GUARD SCALE: NTS 13



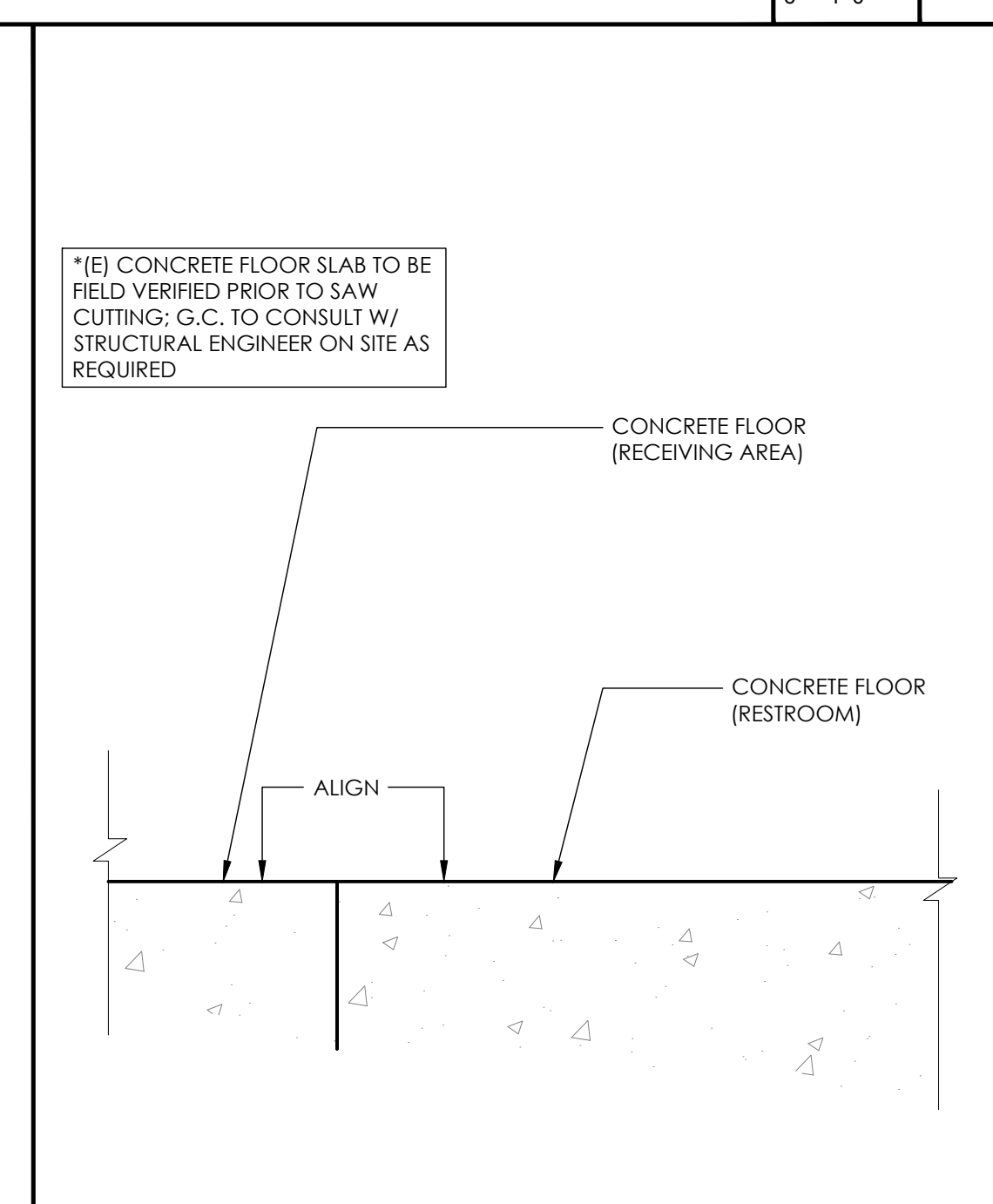
PLYWOOD WAINSCOT ELEVATION SCALE: 1/2" = 1'-0" 11



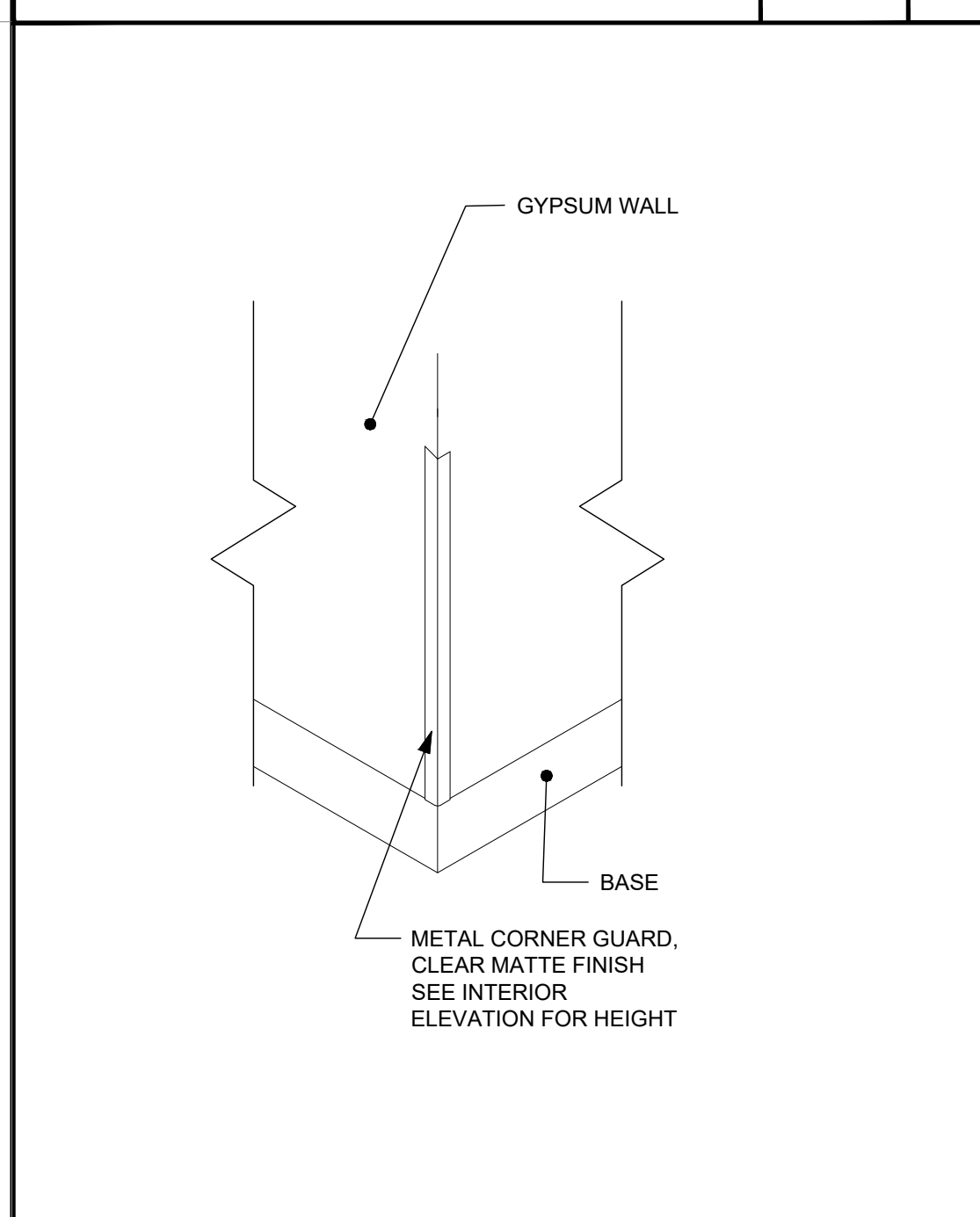
VINYL BASE AT CABINET SCALE: 3" = 1'-0" 8



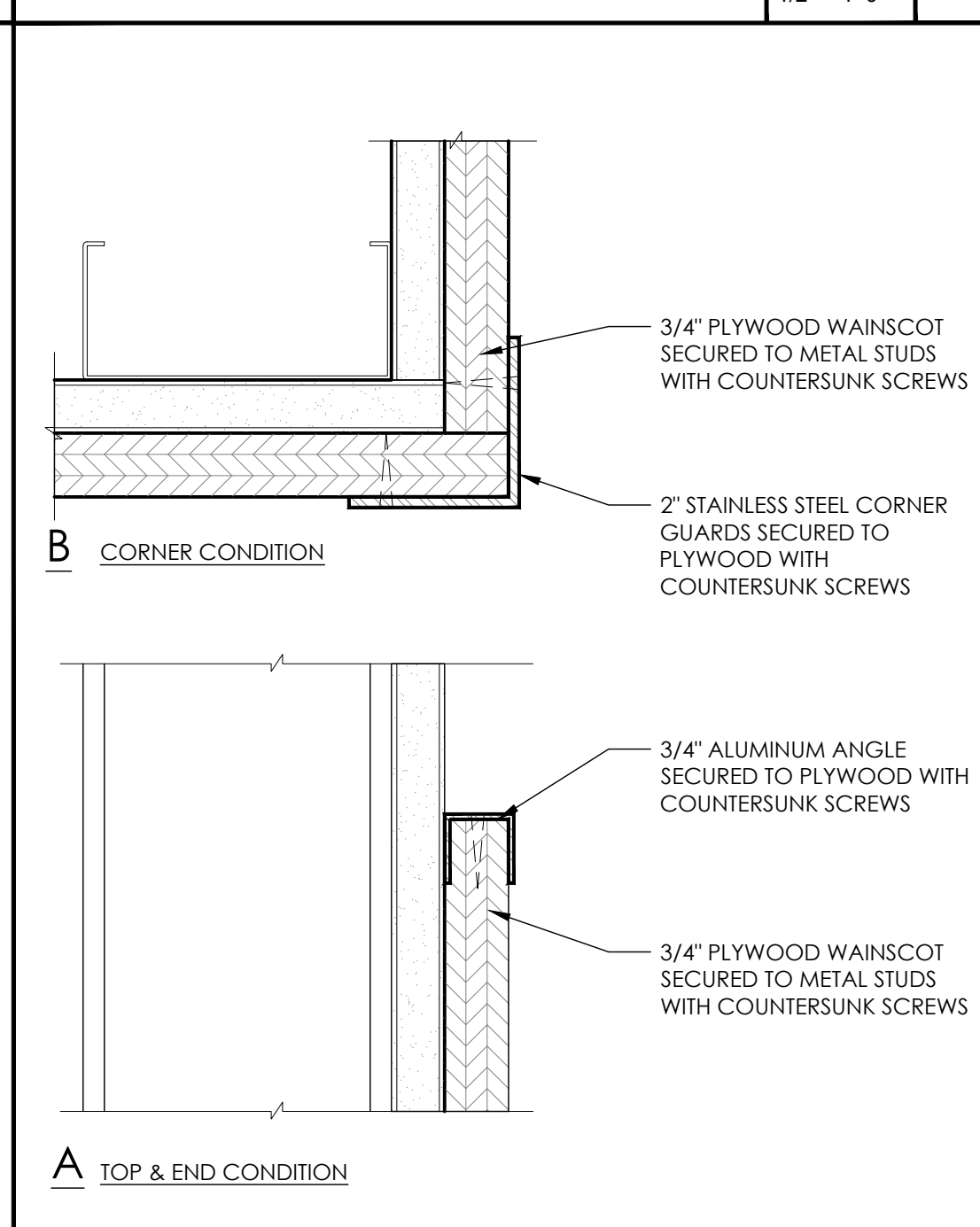
CERAMIC COVE BASE DETAIL SCALE: 6" = 1'-0" 5



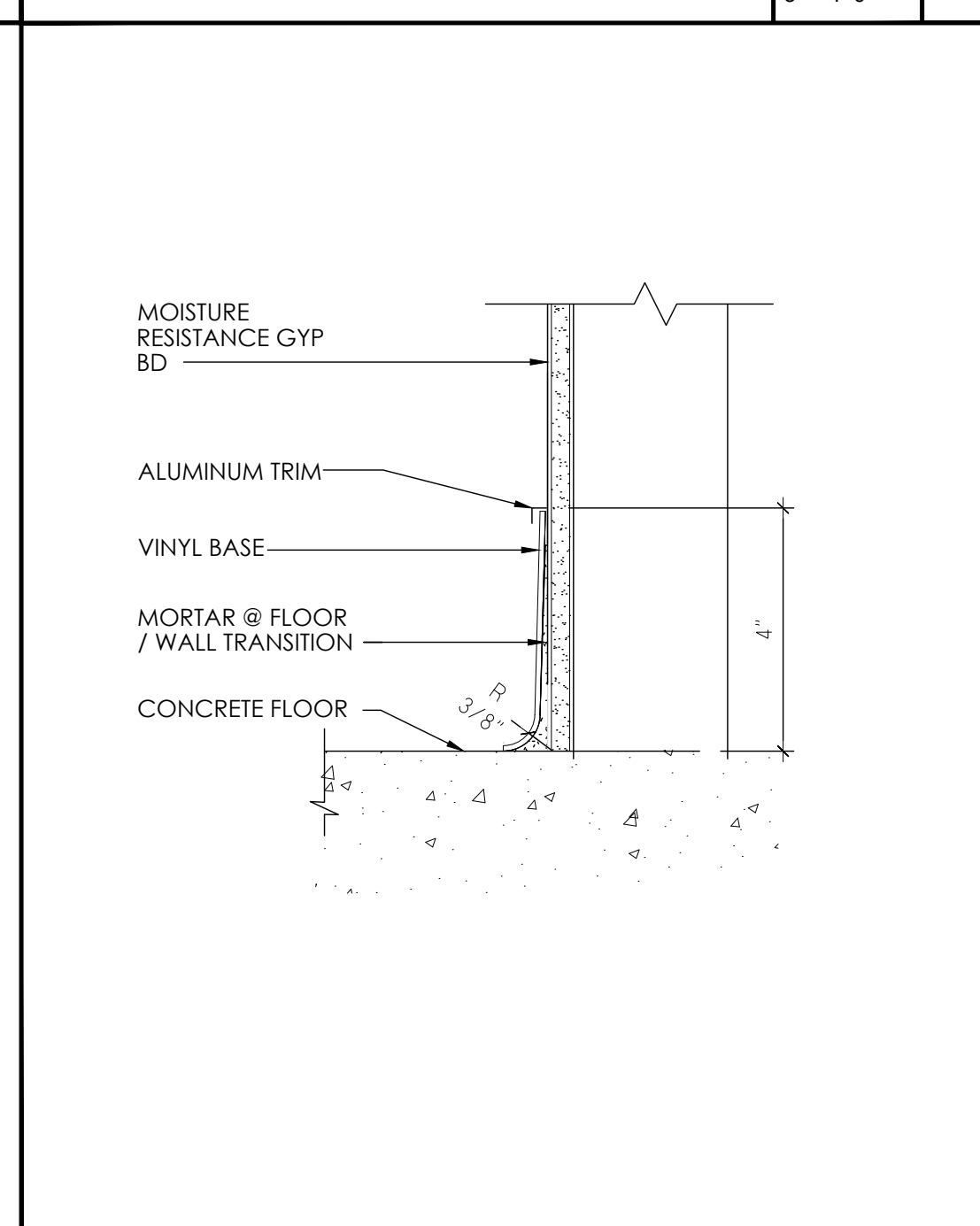
FLOOR TRANSITION - RESTROOM SCALE: 1'-0" = 1'-0" 2



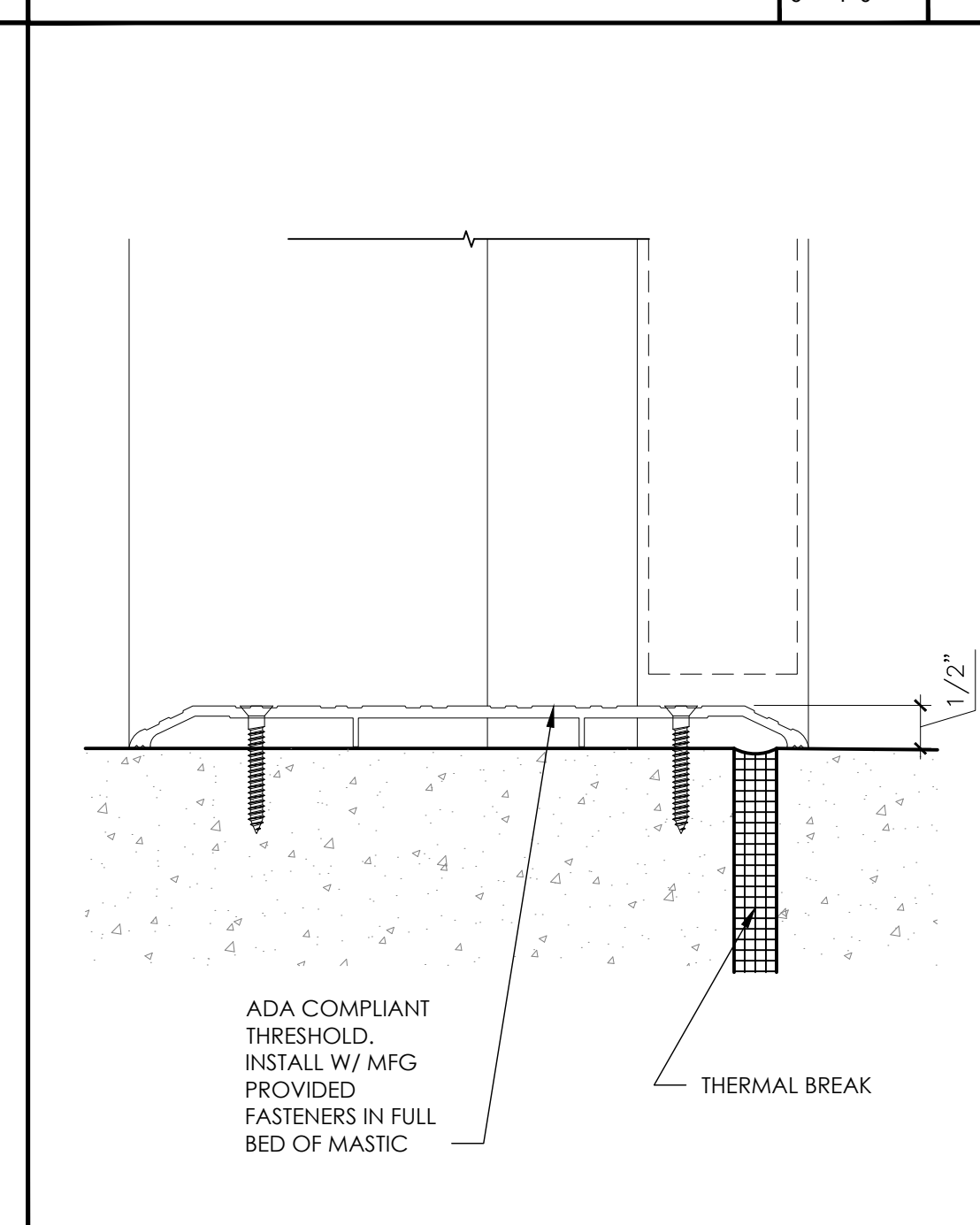
PLYWOOD WAINSCOT DETAIL SCALE: 3" = 1'-0" 10



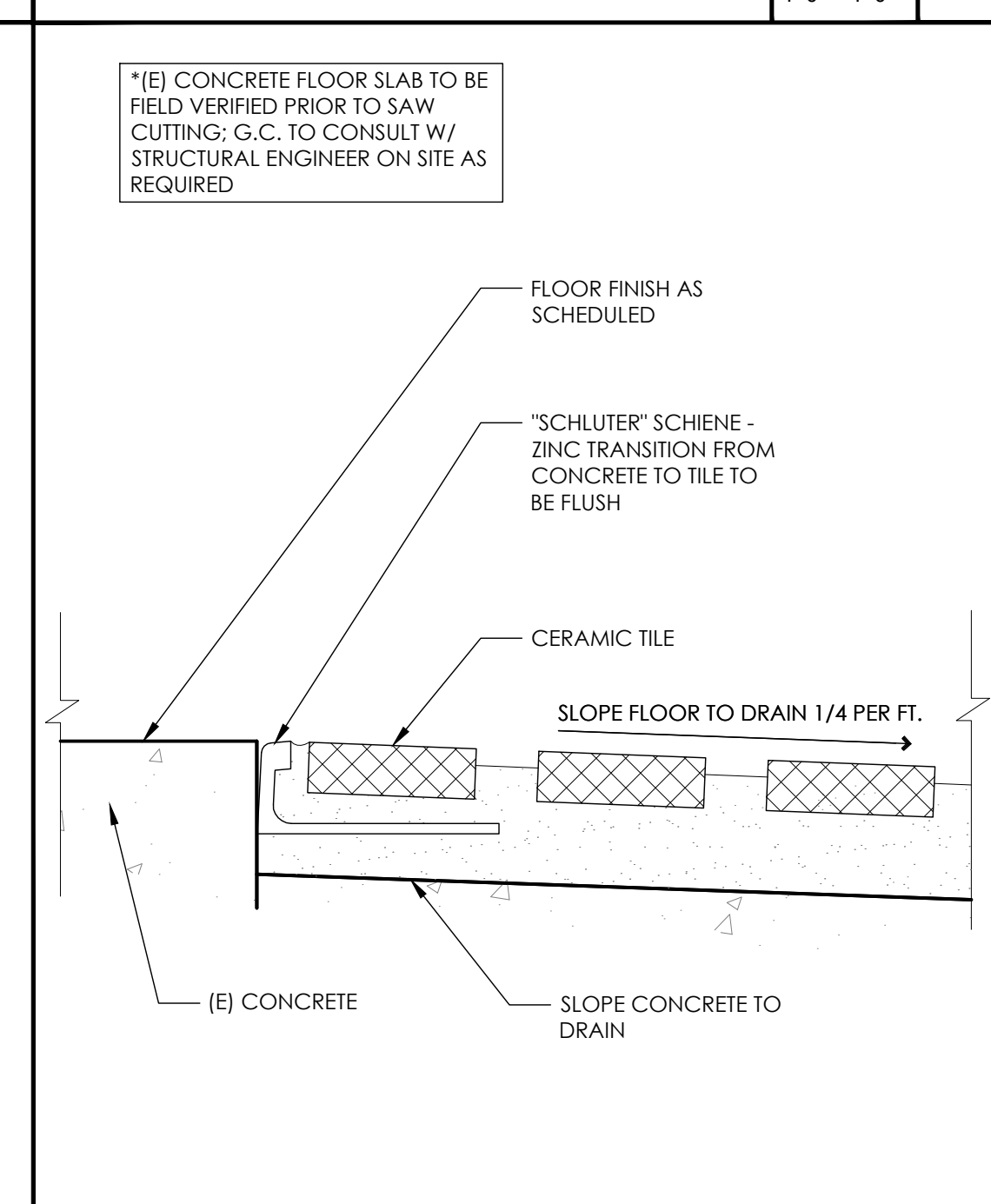
VINYL BASE AT WALL SCALE: 3" = 1'-0" 7



THRESHOLD DETAIL SCALE: 6" = 1'-0" 4



FLOOR TRANSITION - PET WASH SCALE: 1'-0" = 1'-0" 1



CORNER GUARD SCALE: NTS 13

CLIENT

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ISSUE / REVISION

NO.	DATE	REVISION NAME
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6.10.19		REVISION 1
9.13.19		BID SET

PROJECT LOCATION

1 PET FOOD EXPRESS  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

FLOOR AND WALL FINISH DETAILS

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

# A6.5













## Highlight Merchandiser® RHZC30T Hybrid™ Specs

Low Temp Tall Hybrid™ Reach-Ins with 30" x 73" Doors

PHYSICAL DATA	R-404A Refrigerant				R-448A Refrigerant			
	2-Door	3-Door	4-Door	5-Door	2-Door	3-Door	4-Door	5-Door
Facings (ft.)	30.0	44.6	59.3	74.0	30.0	44.6	59.3	74.0
Packout (ft.) 24" Shelves	60.0	89.3	118.7	148.0	60.0	89.3	118.7	148.0
Weight (lbs.) *	89.1	1,141	1,451	1,791	89.1	1,141	1,451	1,791

REFRIGERATION	R-404A Refrigerant				R-448A Refrigerant			
	2-Door	3-Door	4-Door	5-Door	2-Door	3-Door	4-Door	5-Door
Refrigerant Charge (lbs.) †	5.1	5.9	6.5	8.0	5.1	5.9	6.5	8.0
Zero Zone Condensing Unit #	69-9679	69-9679	69-9681	69-9681	69-9929	69-9970	69-9970	69-9970
Condensing Unit Crated Weight (lbs.)	150	150	180	180	164	166	166	166

ELECTRICAL DATA 2,3,4	With Condensate Evaporator System				Without Condensate Evaporator System			
	MCCP (amps) ‡	MCA (amps) ‡	MCCP (amps) ‡	MCA (amps) ‡	MCCP (amps) ‡	MCA (amps) ‡	MCCP (amps) ‡	MCA (amps) ‡
25	25	40	40	20	35	40	40	
20.3	24.6	30.8	36.9	18.5	25.6	31.1	36.9	

ENERGY DATA ‡	With Condensate Evaporator System				Without Condensate Evaporator System										
	Daily Energy Use (kWh)	Rejected Heat (Btu/h) †	Daily Energy Use (kWh)	Rejected Heat (Btu/h) †	Daily Energy Use (kWh)	Rejected Heat (Btu/h) †	Daily Energy Use (kWh)	Rejected Heat (Btu/h) †							
21.3	3,024	31.7	4,509	40.2	5,709	50.0	7,106	25.0	3,558	30.9	4,390	40.8	5,798	50.8	7,216

**Notes:**  
 1. Refrigerant charge includes combined condensing unit and case charges.  
 2. Data based on Zero Zone ChillStar™ LED lighting, Zero Zone ConVolve™ Evaporator coils, and SSC electronic fan motors. See separate reach-in case spec sheets for additional details. RHZC30T.  
 3. 2004 A-weighted sound power level: 115.0 dBA (RHZC30T, red & black power, white noise, green ground). Backboard transformer available for low voltage conditions.  
 4. Optional main service disconnect is available upon request.  
 5. MCCP = Maximum over current protection.  
 6. MCA = Minimum current amp.  
 7. Adequate ventilation must be provided to dissipate rejected heat from the top of the unit for proper performance. Clearance of less than 30" above the top of the shroud to the ceiling requires special design considerations. See Zero Zone Hybrid™ Installation & Operation Manual for specific details.

**Factory-installed Hybrid™ Features:**  
 • Refrigeration piping with quick-connect couplings and refrigerant charge.  
 • Pre-wired and labeled for easy connection.  
 • Electronic control includes: time clock, temperature and defrost control, and visual and audible temperature alarm. Optional network communication capability is available upon request.

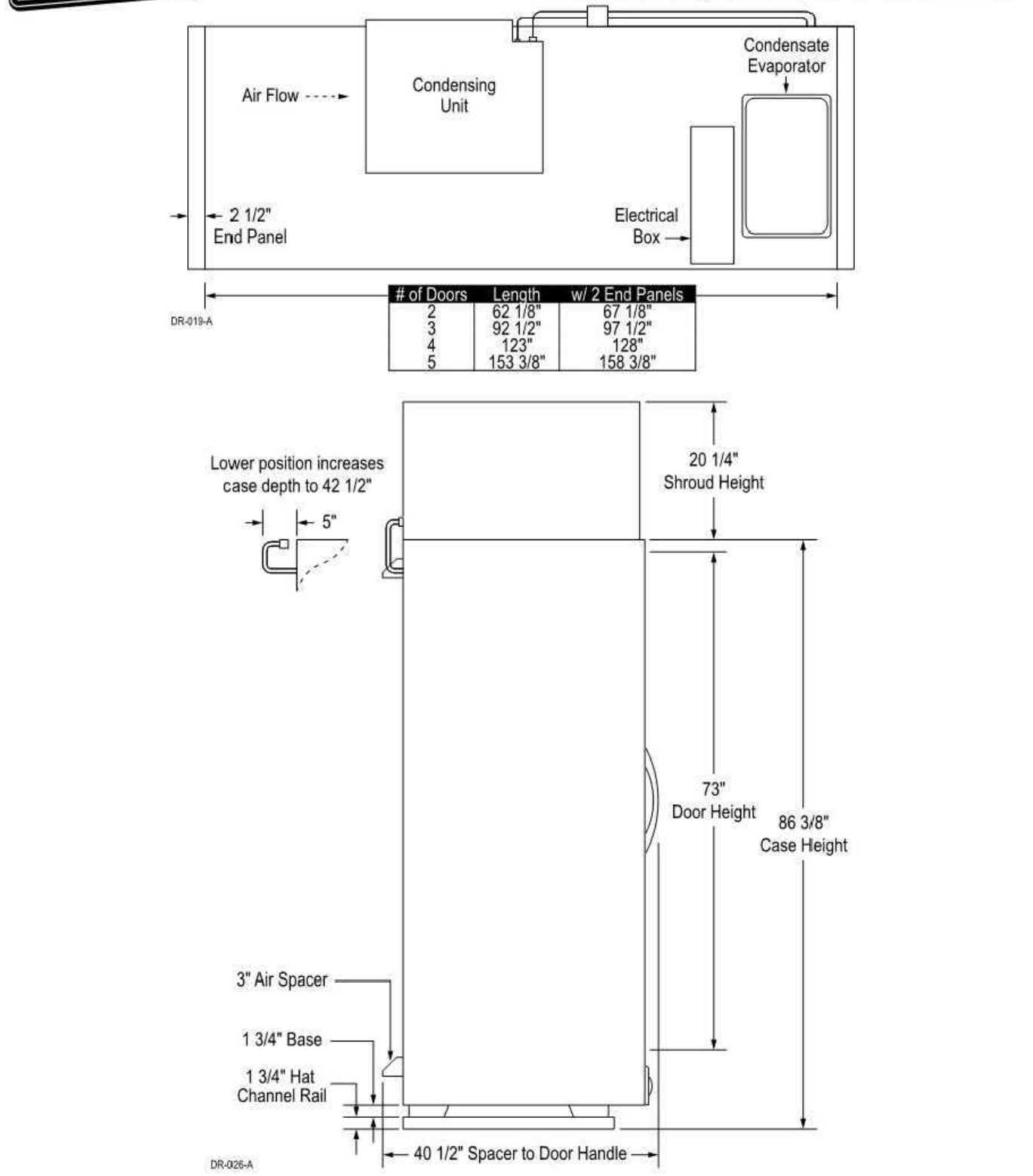
**Field-installed Hybrid™ Features:**  
 • 20 1/4" tall aluminum shroud (front and sides standard, rear optional). Consult factory for other options.  
 • Condensing unit with quick-connect breather couplings.  
 • Condensate evaporator system: collection pan, pump, foot switch, condensate dissipation pan with heater element, and connecting tubing.

SS-87-B 10/24/18



## Highlight Merchandiser® RHZC30T Hybrid™ Specs

Low Temp Tall Hybrid™ Reach-Ins with 30" x 73" Doors



10/24/18  
 Specifications are subject to change without notice. All dimensions are nominal. Case designed to operate in an ambient temperature of 75°F and relative humidity of 55% or lower.  
 Zero Zone, Inc. | 110 N Oakridge Drive | North Prairie, WI 53153-9792  
 Toll Free: 800-247-4496 | Fax: 262-392-6450  
 www.zero-zone.com  
 © 2018 Zero Zone, Inc.

## Pet Food Express Zero Zone Refrigeration Equipment and Installation Instructions:

### Equipment Vendor:

**Zero Zone**  
 Bob Schultz  
 Phone: (916)983-5450  
 Cell phone (916) 792-1861  
 BNC Associates, Inc.  
 bnccasoc@comcast.net

**Zero Zone Traffic Coordinator**  
 Lynda Crawford  
 Direct: (262) 392-1309  
 Main: (262) 392-6400

Pet Food Express contracts directly with the equipment vendor to supply all parts of the freezers unless specifically noted. Pet Food Express uses Hybrid and Highlight Freezers. Please check construction documents for freezers specified for this project. For a complete listing of parts, please contact Zero Zone, Inc.

Receipt of delivery of reach-ins, etc., installation and coordination of installation for all items is the responsibility of the Refrigeration Installation Contractor. Any specialty permits are the responsibility of the Refrigeration Contractor. A forklift with long forks is required at delivery. Forklift is to be provided by the Refrigeration Contractor. Refrigeration Contractor is responsible for the inspection of all materials delivered and must sign shipping documents indicating any and all damages, missing items and forward the same shipping documents to the Pet Food Express Project Manager. Failure to do so will be deemed that the materials were received without damage and any future damage will be the responsibility of the Refrigeration Contractor.

PFE Refrigeration installer should price the installation in accordance with the construction documents, manufacturer's installation instructions and these additional installation instructions.

If site conditions differ from the construction documents, or if other issues or conflicts are discovered during installation, Pet Food Express must be notified immediately as to the actual conditions or conflicts. Site work including electrical power must be ready for product delivery by Zero Zone and installation as determined by Pet Food Express' delivery noted.

Installation work shall be for complete operating freezers. Freezers should be up and operating 48 hours prior to Pet Food Express' merchandise delivery date. Work shall include, but is not limited to, the following:

- Freezers shall be set to maintain a running temperature of minus 10 degrees F.
- Placement of Reach-in freezers in locations as shown on the Construction Documents. Installer shall be responsible for removal of all ties and packing materials and leveling of reach-ins.
- Installation shall be in accordance with the Zero Zone Installation instructions including installation of all mechanical equipment including remote condensing units, hybrid condensing units, sound reduction kits, condensate pans and equipment, condensation lines and insulation of refrigeration lines. All piping shall be hard pipe type L copper. The refrigeration lines are to have minimum 3/4" wall insulation on suction lines. Insulation needs to be glued at all joints and wrapped with duct tape. All refrigeration piping needs to strap and supported every 8'.
- For installation of the freezers, the refrigeration installation contractor will need to supply and install condensing level platforms, roof jacks or refrigeration tubing raceway if required.
- Installer shall be responsible for installation of one temperature alarm per box. Pet Food Express will provide a High Low Temperature Alarm for each box. Pet Food Express will provide the alarm, sensor & wire. Installation includes installing the sensor inside the freezer box, running and termination of low voltage cable from freezer location to Manager's office. Installer shall label alarms with designated freezer. Refrigeration installer shall be responsible for programming the alarm to Pet Food Express' requirements. It is the refrigeration installation contractor's responsibility to assure the temperature alarms are set to the proper temperature parameters at completion. Pet Food Express' Security Vendor (Vector Security) shall connect freezer alarms to store alarm system.

- Freezer Alarm Boxes are to be set to the following parameters:
  - Low Alarm setting shall be -20 degrees.
  - High Alarm setting shall be +0 degrees.
  - The Alarm shall be set to activate if temperature rises 10 degrees or more above or below the set temperature for more than 2 hours. (Maximum Delay on alarm box)

- Installer MUST check factory settings to make sure the defrost cycles are set on the Carrel Controller, timeclocks, etc. to the parameters noted below. Defrost Cycles must be set to work with temperature alarms. There will be no charge for service calls to correct this.

- Freezer Timeclocks and Defrost cycles shall be set as follows:
  - 1-2 Door Freezer Units: Defrost set for 7 AM for 30 minutes or shutoff of defrost when inside of box reaches 45 Degrees.
  - 3, 4 & 5 Door Freezer Units: Defrost set for 7 AM for 40 minutes or shutoff of defrost when inside of box reaches 45 Degrees.

- Freezers come with a Thermosimple gauge preinstalled. The Yellow "Caution" gauge should activate after the freezer has been above 5 degrees for one hour. Please make sure this is set correctly. More information on the Thermosimple gauge can be found at <https://www.thermosimple.com/videos>

- The Refrigeration Installation contractor is responsible for all electrical conduits, junction boxes, hookups and all electrical work associated with a complete freezer installation. This includes providing and installing all high and low voltage conduit and wire. Contact Zero Zone for all wiring requirements.

- A separate circuit for display door lighting is provided. Display case door lighting shall be connected to Pet Food Express' Energy Management/ lighting controller system. Display case lighting shall be controlled with sales floor lighting. PEE's General Contractor and Installer's electrician shall use site conditions to determine how to accomplish this.

- Removal of trash, refrigerant and other materials resulting from installation is the responsibility of the installer.

- Freezer installer is responsible for cleaning the inside of the box prior to start up. Shelves are to be set aside outside the freezer prior to start up for the merchandising team to set to required heights.

- The refrigeration installation contractor shall include in his bid any service calls to the store to "fine tune" any temperature issues at start up and within 2 weeks after installation. This is to assure equipment is maintaining proper temperatures after fully merchandised.

- All roof penetrations and resealing shall be coordinated with Pet Food Express' General Contractor and Project manager. Refrigeration installer shall be responsible for notifying PFE when roof penetration work is complete and the roof is ready for patching.

- The Refrigeration installer shall be responsible for startup of all equipment. Startup shall be in accordance with manufacturer's startup check list.

- Where a common partition is used to join two boxes, the installer must use Butyl sealant and follow the correct sealing instructions provided by Zero Zone so no condensation or frost at this joint occurs.

- All Freezers come with condensate pans and heaters. Heaters may require a dedicated 20 amp 115v circuit with a "lock on" device. Pans and heaters must be installed and tested.

- All Hybrid freezers come with sound reduction kits that must be installed.

All installation documentation is available at [www.Zero-Zone.com](http://www.Zero-Zone.com).

## REFRIGERATION

### LTCS24223

33" Wide Top Mount refrigerator with factory installed ice system



## TRADITIONAL STYLE STAYS FRESH.

The largest total capacity top-mount refrigerator with 24 cubic feet of space in the 33 inches wide category\* has a lot to offer. With a built-in ice maker and electronic temperature controls, this refrigerator offers more than just a traditional-style. It's designed to keep temperature and humidity levels where they need to be to help keep your food fresher, while providing ice on-demand.

PROVIDED AND INSTALLED BY VIP



**STYLE AND DESIGN**  
 -24 cu.ft.  
 -Premium Finishes in Stainless Steel, Smooth White, and Smooth Black Finishes  
 -Contoured Doors with Pocket Handles  
 -Premium LED Interior Lights (Refrigerator/Freezer)

**ORGANIZATION**  
 -Full Width Pantry Drawer  
 -2 Full Tempered Glass Shelves  
 -2 Humidity Crispers  
 -3 Door Bins  
 -1 Dairy Bin

**PERFORMANCE**  
 -Factory Installed Ice Maker  
 -Electronic Temperature Controls  
 -LEDControl™ Quiet Operation

**KEY FEATURES**  
**Great Space in Style**  
 Get the space you need in a refrigerator that's right for your kitchen. With 24 cu. ft. of space, this top-mount refrigerator offers a large capacity in its category at 33" wide.

**Fresher is Better**  
 Electronic Temperature Controls designed to maintain humidity and temperature levels to help keep your food fresher, longer. Digital sensors constantly monitor conditions within the refrigerator to keep things cool.

**Premium LED Light**  
 Bright LED panels on the rear of the refrigerator give you excellent light every time you look in the fridge. And they're not just convenient—they also save energy over traditional lighting.

## REFRIGERATION

### LTCS24223

33" Wide Top Mount refrigerator with factory installed ice system



**CAPACITY**  
 Refrigerator 17.6 cu. ft.  
 Freezer 6.2 cu. ft.  
 Total 23.8 cu. ft.

**FEATURES**  
 Energy Rating 2014 Energy Star Compliant  
 Freezer Door Type Top Freezer Door  
 Temperature Controls Electronic  
 Temperature Sensors +  
 LEDInterior Light Operation -

**REFRIGERATOR**  
 No. of Shelves 2 Full  
 Shelf Construction Tempered Glass  
 Crisper Bins 2 Humidity Crispers  
 Full Width Pantry Drawer -  
 Split Storage 2 Gallons  
 Refrigerator Light Premium LED

**REFRIGERATOR DOOR**  
 No. of Door Bins 3  
 Dairy Bin 1  
 Tall-Turn Retainer -

**FREEZER**  
 No. of Shelves 1  
 Shelf Construction Tempered Glass  
 No. of Door Bins/Shelves 2  
 Auto Defrost Premium LED  
 Freezer Light Premium LED

**MATERIALS AND FINISHES**  
 Contour Door -  
 Reversible Door -  
 Split Pane Coated Metal, Stainless Steel  
 Back Flush & Metal cover over mechanical parts  
 Available Colors Stainless Steel (S), Smooth White (W), Smooth Black (B)

**DIMENSIONS (CLEARANCES)/WEIGHT**  
 Dimensions (W Case x H Top of Range x D with handles) 32 3/4" x 66 1/8" x 33 3/8"  
 Depth with Door 33 3/8"  
 Depth without Door 29"  
 Depth (Total with Door Open) 63"  
 Height to Top of Case 64 3/8"  
 Height to Top of Case -Hinge 68 1/2"  
 Width 32 3/4"  
 Insulation Coefficient 5.0 in. 1/2" Top 1.8 in. 1/2"  
 Weight (Dist./Carton) 224 lbs./248 lbs.  
 Carton Dimensions (WxHxD) 34 3/4" x 71 1/2" x 38 1/8"

**RATINGS**  
 Amps 20 Amp  
 UL Listed 120V, 60Hz, 15 Amp  
 Energy Consumption 43 kWh/yr

**WARRANTY**  
 1 Year Parts and Labor, 7 Years on the Sealed System

**UPC CODES**  
 LTCS24223S Stainless Steel 048231 786553  
 LTCS24223W Smooth White 048231 786560  
 LTCS24223B Smooth Black 048231 786677

LG Electronics U.S.A., Inc.  
 1000 Sylvan Avenue Englewood Cliffs, NJ 07632  
 Customer Service and Technical Support: (800) 243-0000  
 LG.com



Design, features and specifications are subject to change without notice. Net metric weights and measurements are approximate.  
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PROVIDED AND INSTALLED BY VIP

## SP6DSSTB7ADA



32" x 23.75" x 23.58" (H x W x D)

Commercially approved ADA compliant three-drawer refrigerator in stainless steel with towel bar handles, for built-in or freestanding use

**Highlights:**  
 Three drawer all-refrigerator in elegant stainless steel, with full-width curved towel bar handles

Commercially approved for use in food service establishments

32 inch height fits under lower ADA compliant counters

### Product Features:

ADA Compliant	32 inch height is designed to fit under ADA compliant counters
Commercially approved	ETL-S listed to NSF-7 Standards for use in commercial establishments
Slim undercounter dimensions	Less than 24 inches wide to fit tight spaces
Built-in capable	Make the best use of space by installing your appliance under the counter and flush with other cabinetry
Fully finished cabinet	Allows the unit to be used freestanding
Complete stainless steel construction	Built with solid durability, inside and out
Professional towel bar handles	Curved handles in brushed stainless steel provide generous room for a comfortable grip
Automatic defrost	Reduced maintenance with auto defrost system
Adjustable thermostat	Dial thermostat for easy temperature management

SUMMIT APPLIANCE DIVISION, FELIX STORCH, INC. | ISO 9001:2015 Certified  
 770 Garrison Avenue Bronx, NY 10474 USA TEL 718-893-3900 FAX 844-478-8799 [info@summitappliance.com](mailto:info@summitappliance.com) [www.summitappliance.com](http://www.summitappliance.com)



### SP6DSSTB7ADA Specifications:

#### Overview

Height of Cabinet	32.0" (81 cm)
Width	23.75" (60 cm)
Depth	23.58" (60 cm)
Depth with Handle	24.63" (63 cm)
Depth with door at 90°	40.5" (103 cm)
Capacity	3.1 cu.ft. (88 L)
Defrost Type	Automatic
Door	Stainless Steel
Cabinet	Stainless Steel
UL Electrical Safety	ETL
Canadian Electrical Safety	ETL-C
Sanitation	ETL-S
Amps	1.3
Weight	120.0 lbs. (54 kg)
Shipping Weight	125.0 lbs. (57 kg)
Parts & Labor Warranty	1 Year
Compressor Warranty	5 Years

#### Refrigerator Features

Thermostat Type	Dial
Fan Type	Interior and Exterior

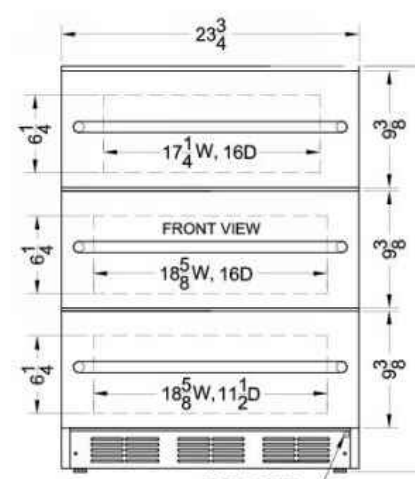
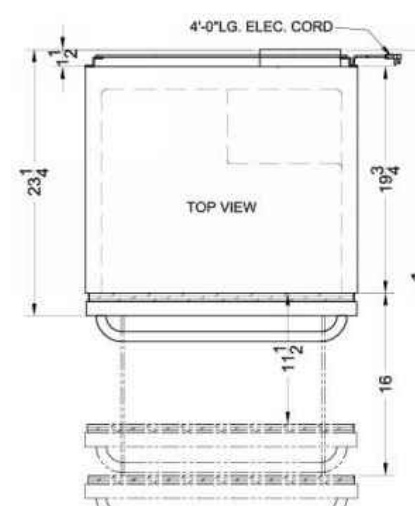
#### Refrigerator Type

Refrigerator Type	R134a
Refrigerant Amount	1.8oz.
High Side PSI	285.0
Low Side PSI	70.0
Level Legs Qty	4
Interior Drawers	Yes
Interior Drawers Qty	3

#### Drawer Dimensions

Interior Height 1	6.25" (16 cm)
Interior Width 1	18.63" (47 cm)
Interior Depth 1	11.5" (29 cm)
Interior Height 2	6.25" (16 cm)
Interior Width 2	18.63" (47 cm)
Interior Depth 2	16.0" (41 cm)
Interior Height 3	6.25" (16 cm)
Interior Width 3	17.25" (44 cm)
Interior Depth 3	16.0" (41 cm)

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 770 Garrison Avenue Bronx, NY 10474 USA TEL 718-893-3900 FAX 844-478-8799 [info@summitappliance.com](mailto:info@summitappliance.com) [www.summitappliance.com](http://www.summitappliance.com)



CLIENT



ARCHITECT



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 Oakland, CA 94612  
 p 415.541.0977  
 www.msasf.com

REGISTRATION



CONSULTANT

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### ISSUE / REVISION

NO.	DATE	REVISION NAME
4.19.19		ISSUE FOR PERMIT
6.10.19		REVISION 1
9.13.19		BID SET

### PROJECT LOCATION

PET FOOD EXPRESS  
 4710 Freepoint Blvd, Suite 12K-A  
 Sacramento, CA 95822

### DRAWING TITLE

### SPECIFICATIONS

SCALE: AS NOTED  
 PROJECT NUMBER: 18404  
 SHEET NUMBER:

A6.8

IN-LINE JFFD FREEZER SPECIFICATIONS

SCALE: NTS

4

INSTALLATION INSTRUCTIONS

SCALE: NTS

3

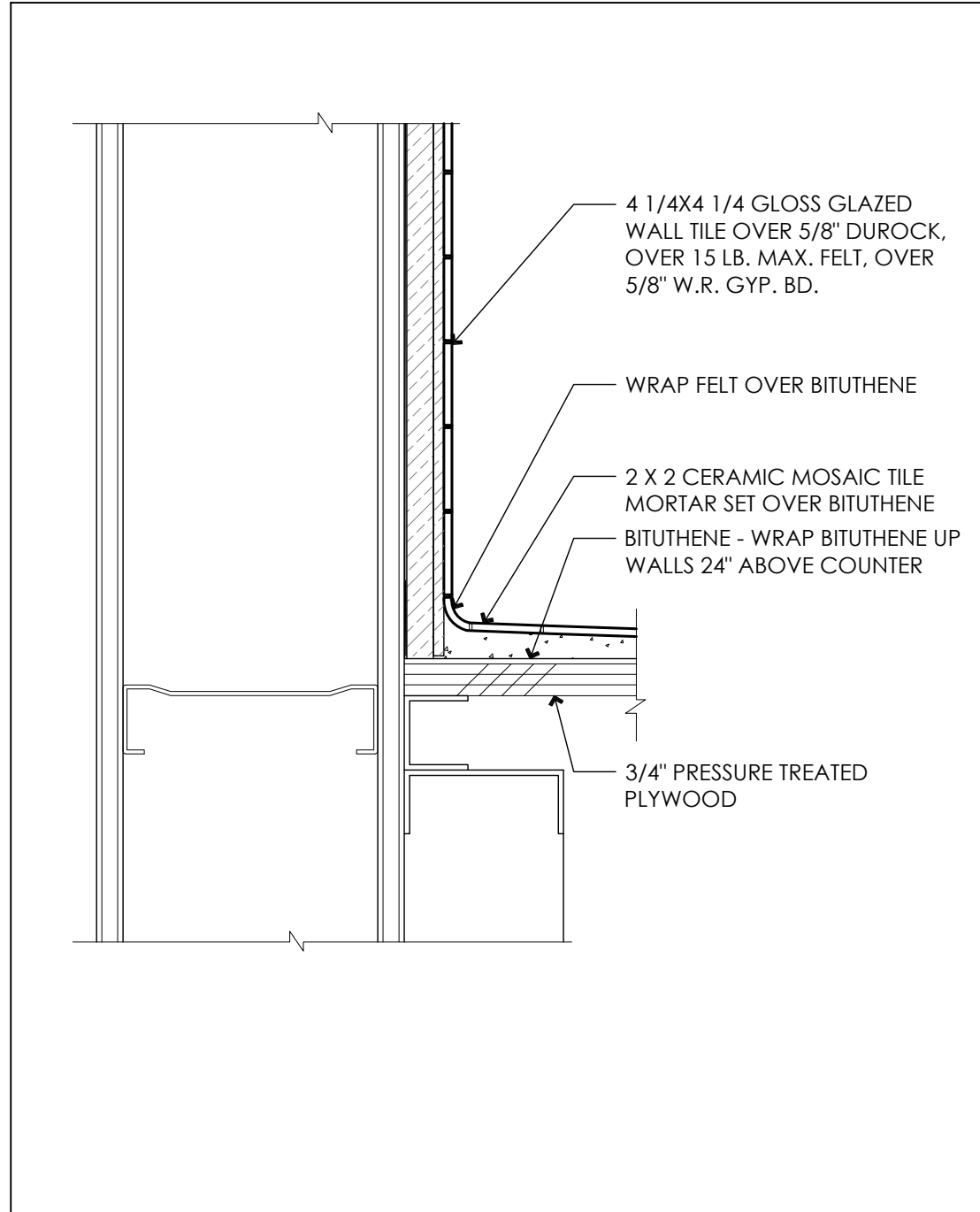
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SCALE: NTS

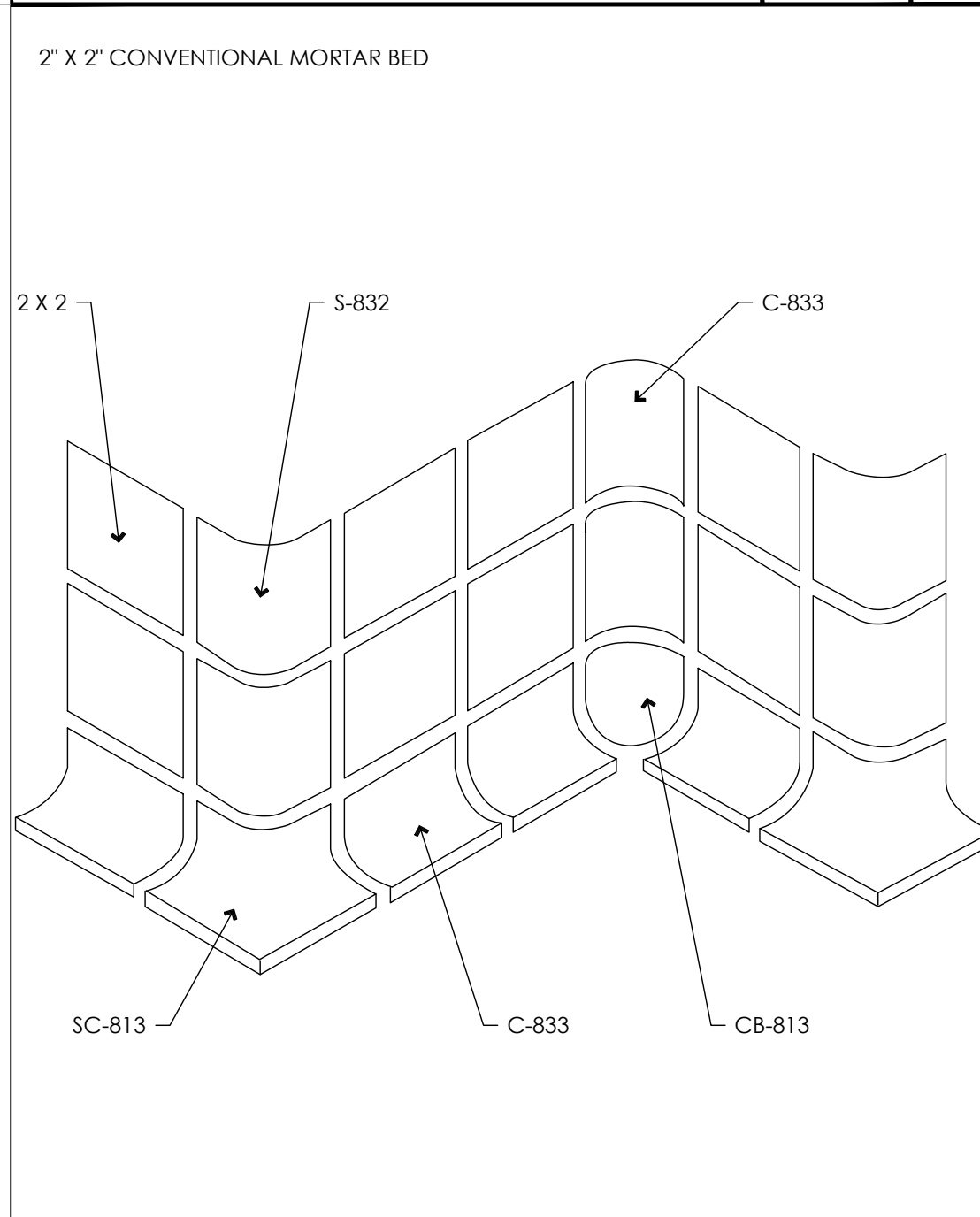
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REFRIGERATOR SPECIFICATION

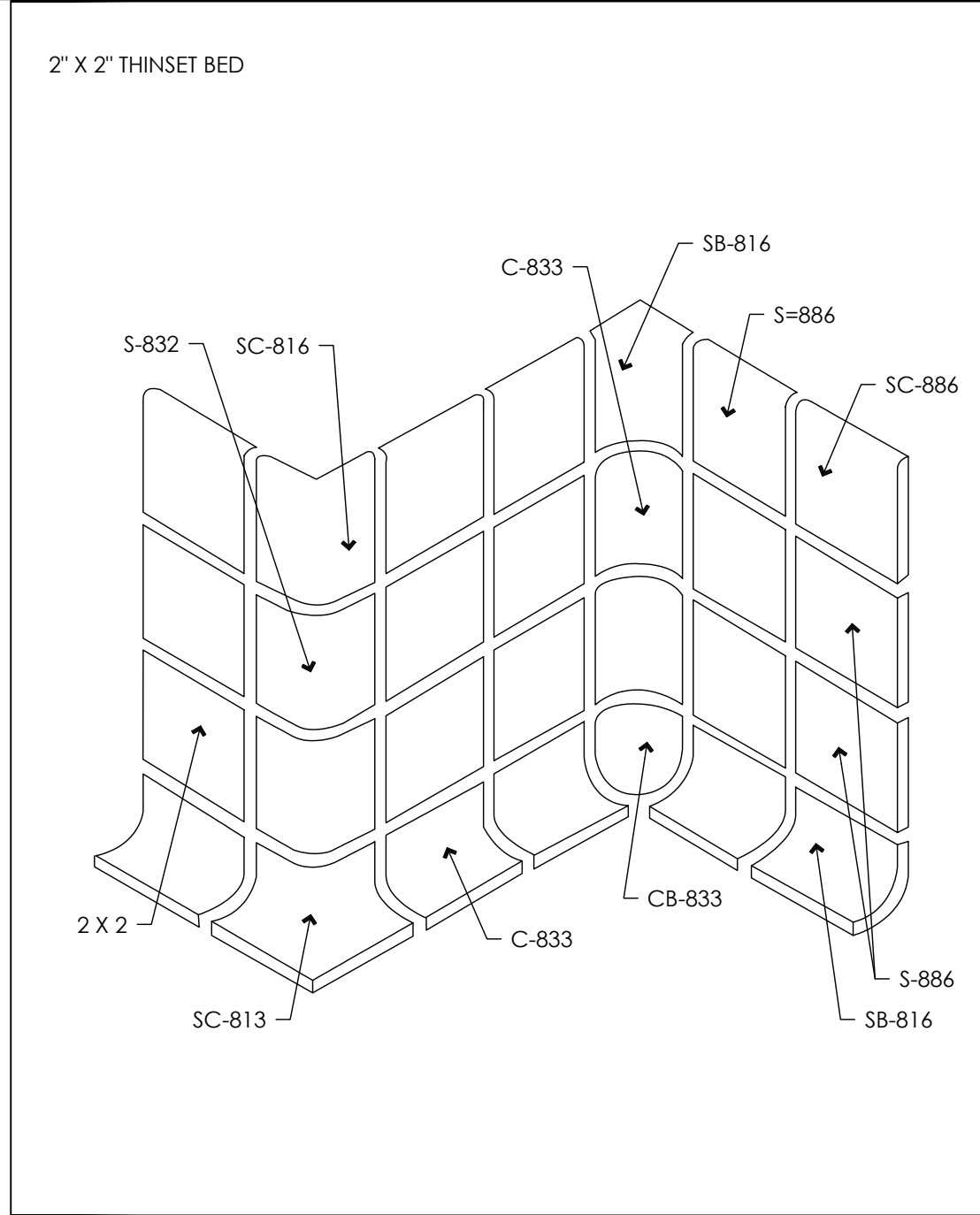




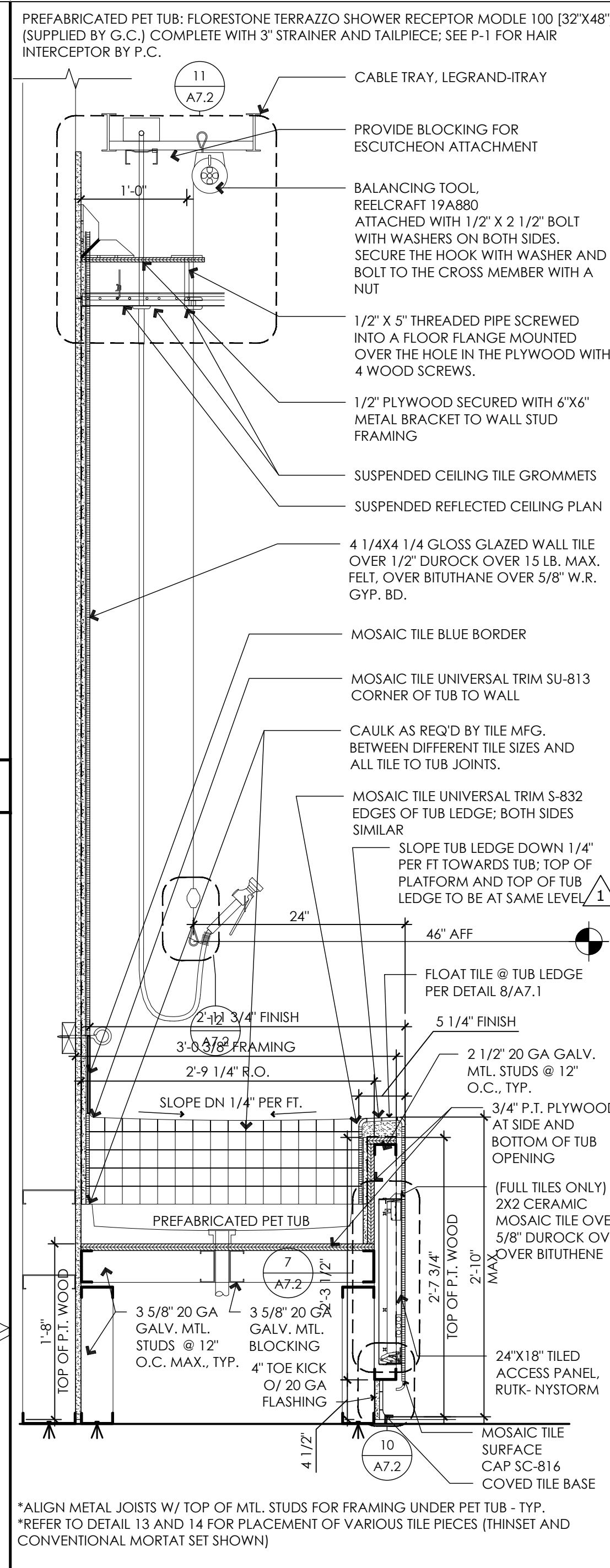
**PET TUB - TILE DETAIL** SCALE: 3"=1'-0" 15



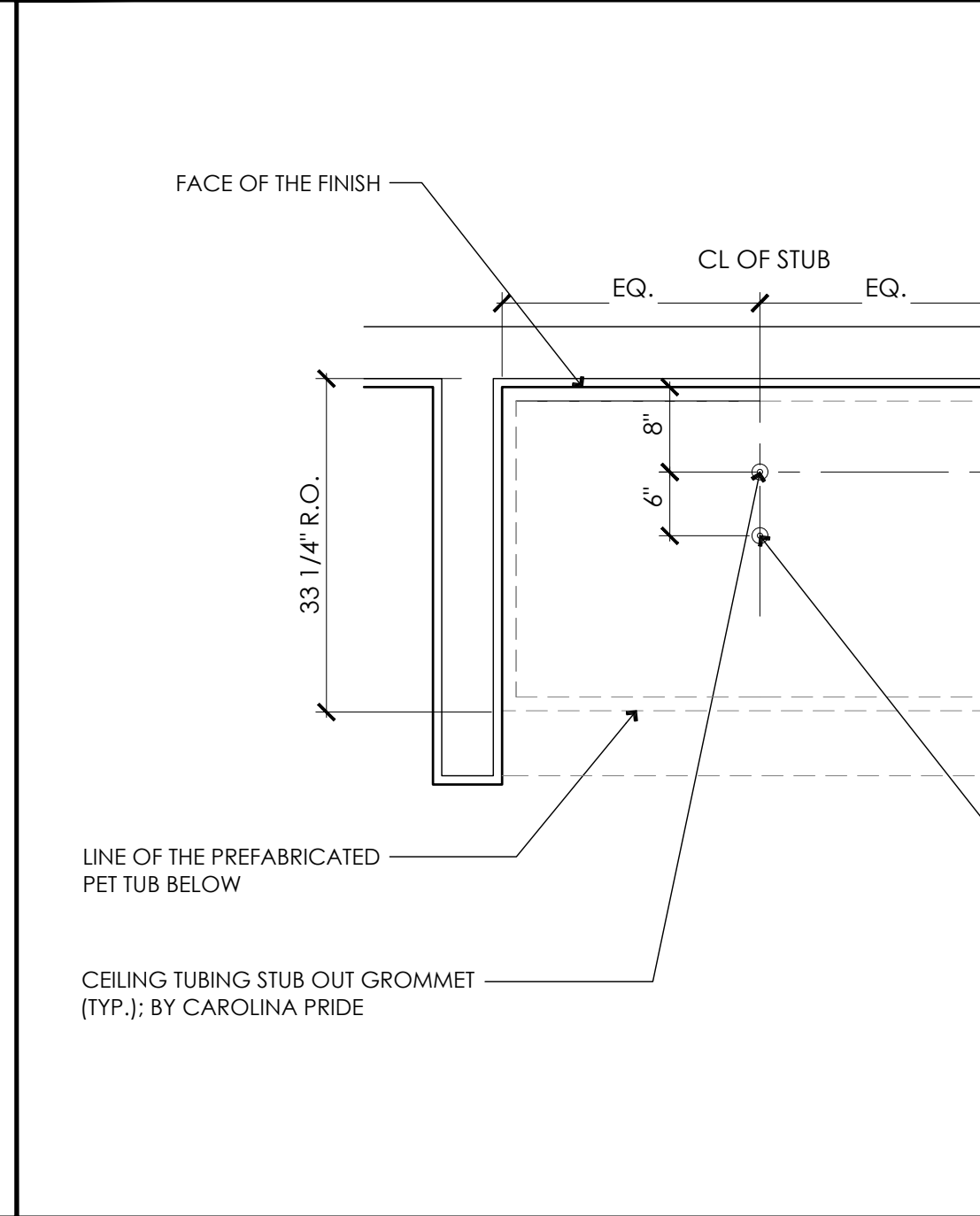
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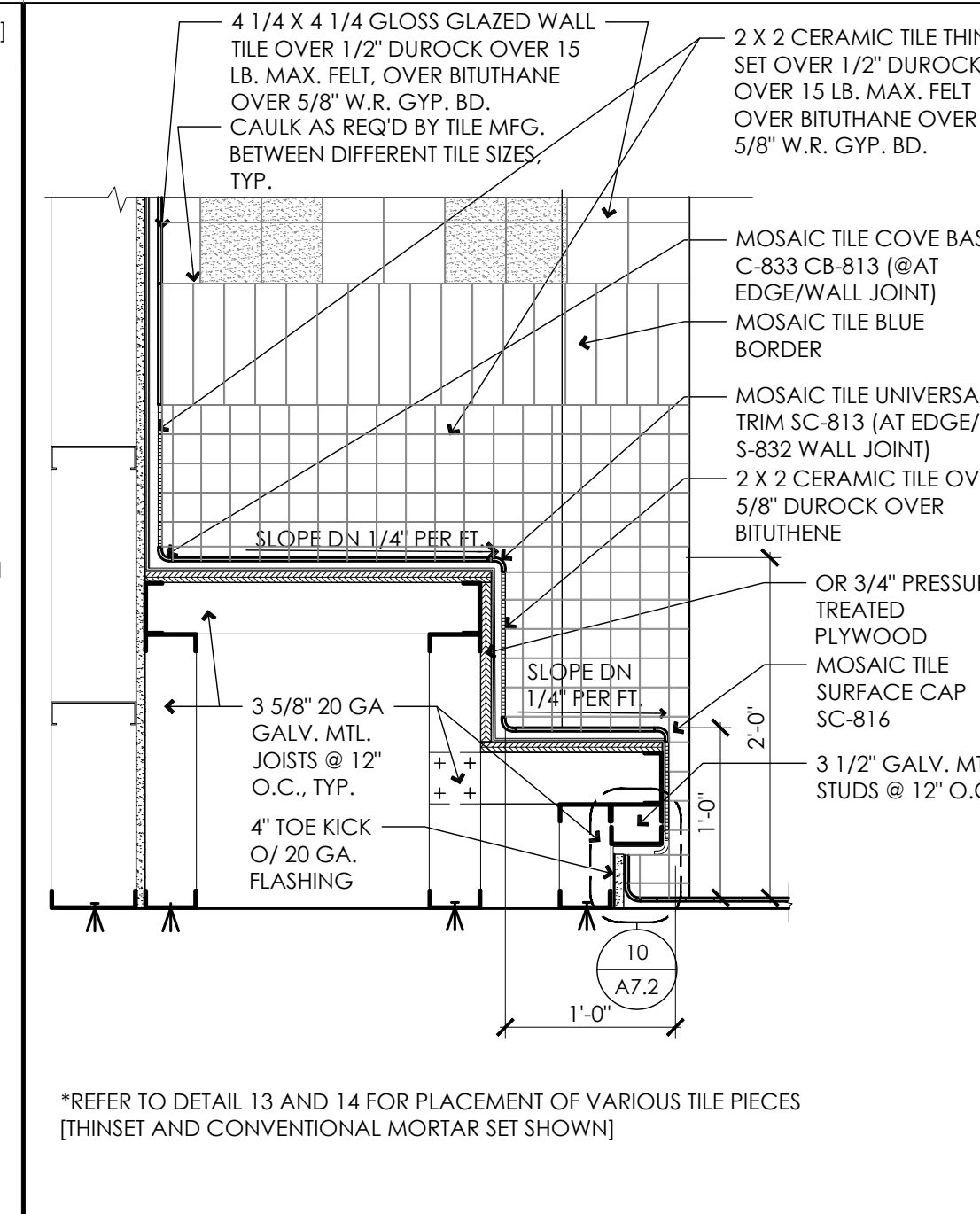
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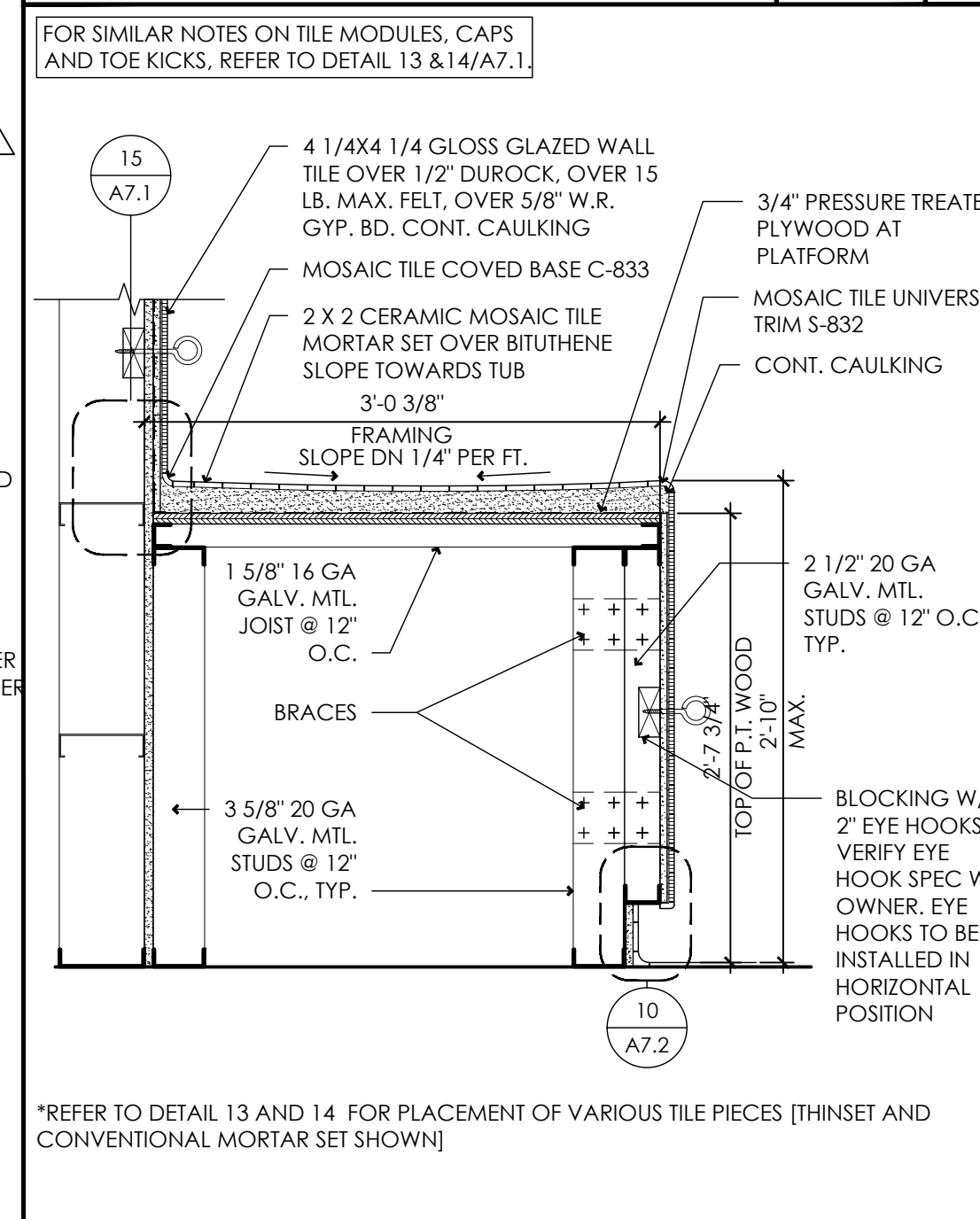
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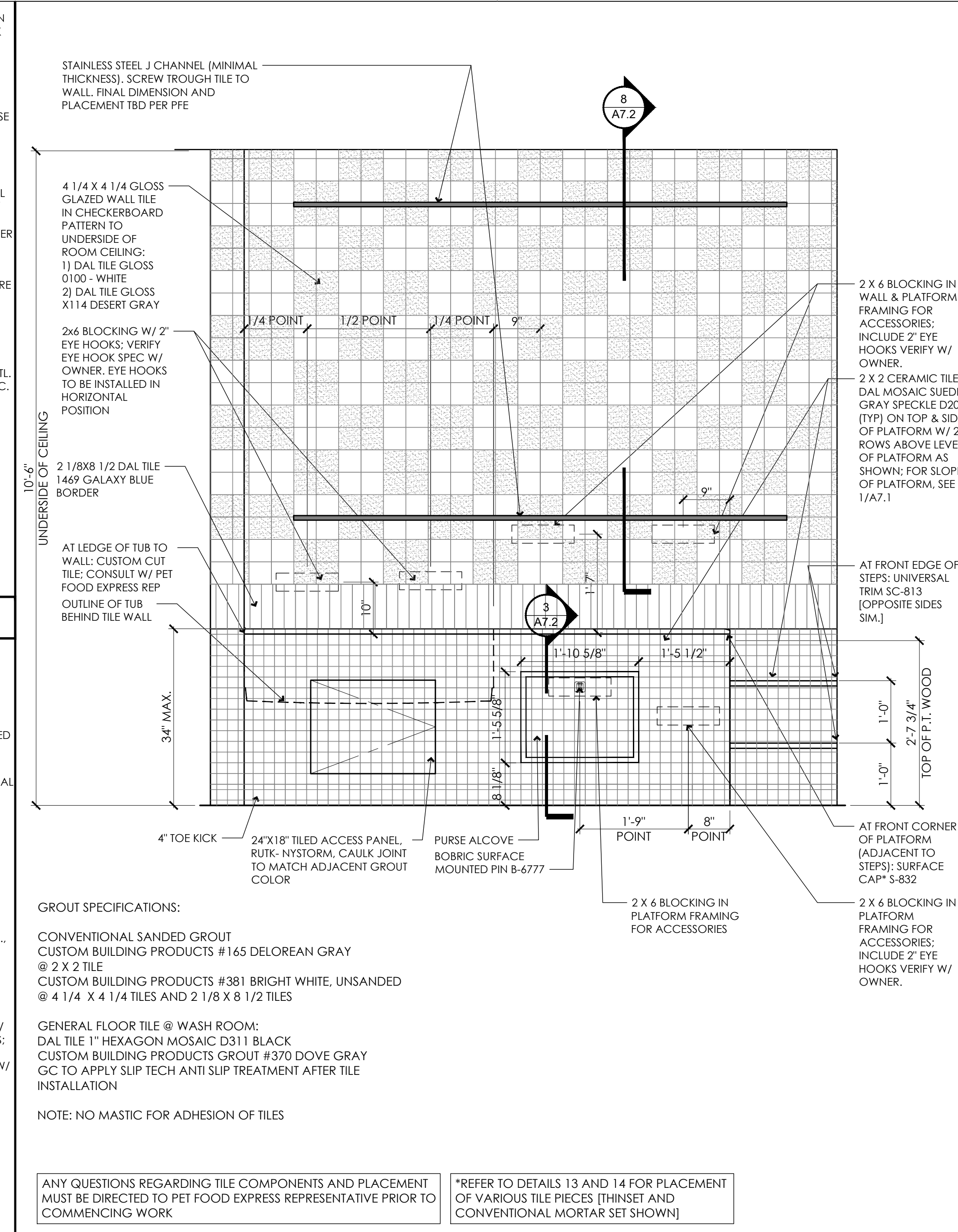
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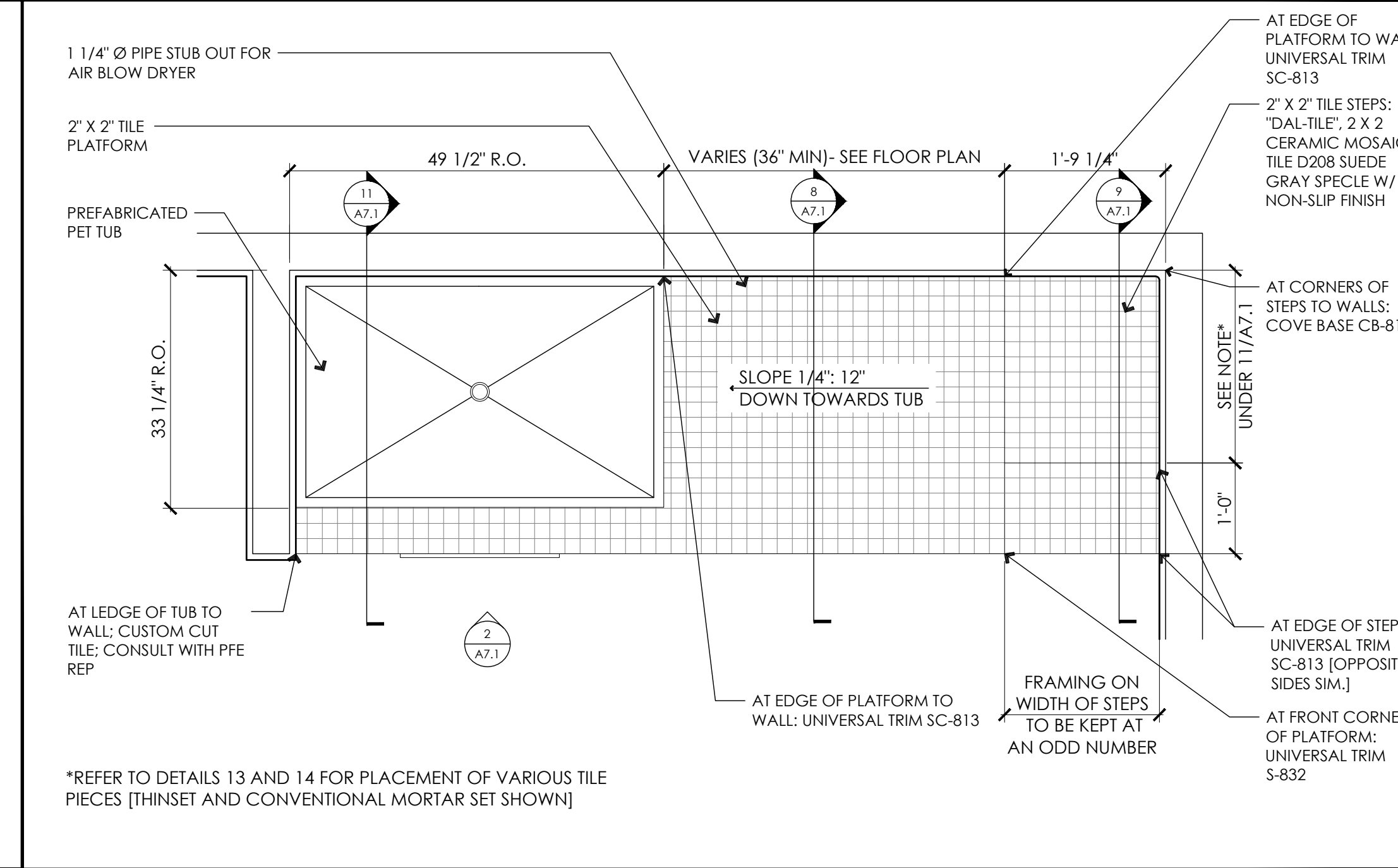
**PET TUB - STEP SECTION** SCALE: 1"=1'-0" 9



**PET TUB - PLATFORM SECTION** SCALE: 1"=1'-0" 8



**PET TUB ELEVATION** SCALE: 3/4"=1'-0" 2



**PET TUB PLAN** SCALE: 3/4"=1'-0" 1

**CLIENT**

**pet food express**

**ARCHITECT**

**MSA**  
architecture + design

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BRIAN W. ANDERSON  
No. C-31273  
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STATE OF CALIFORNIA

**CONSULTANT**

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1	4.19.19	ISSUE FOR PERMIT
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**PROJECT LOCATION**

**PET FOOD EXPRESS**  
4710 Freepoint Blvd, Suite 12K-A  
Sacramento, CA 95822

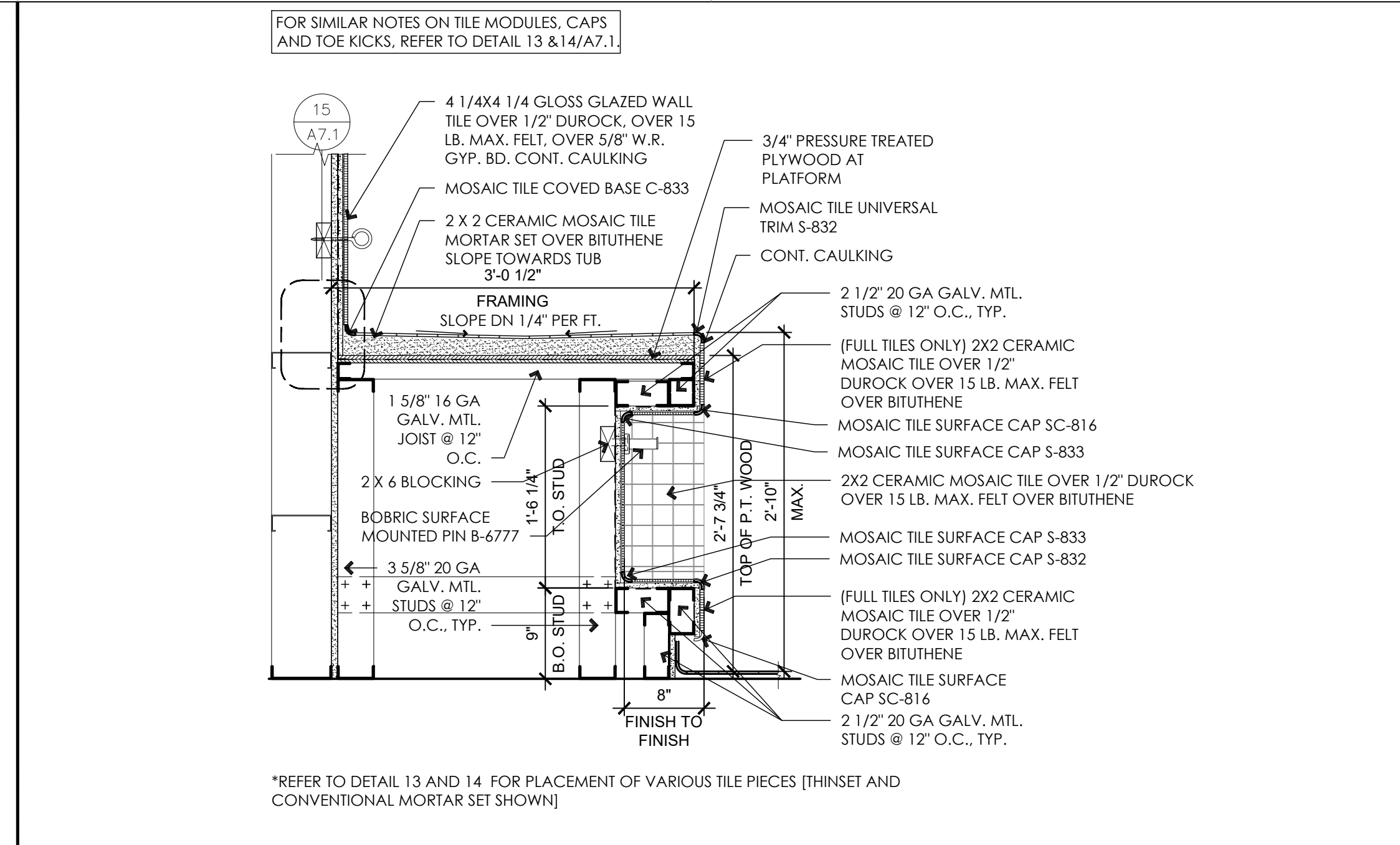
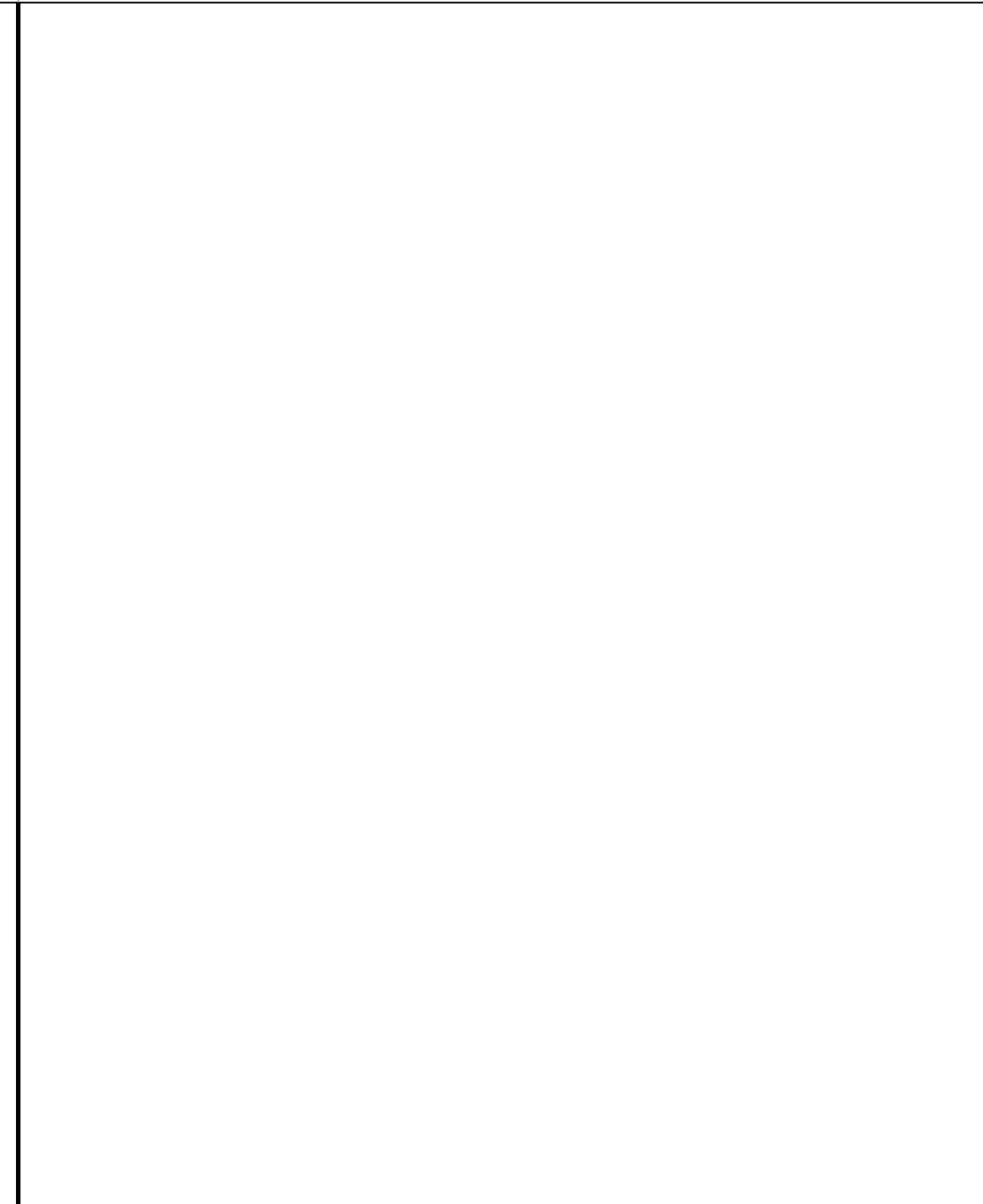
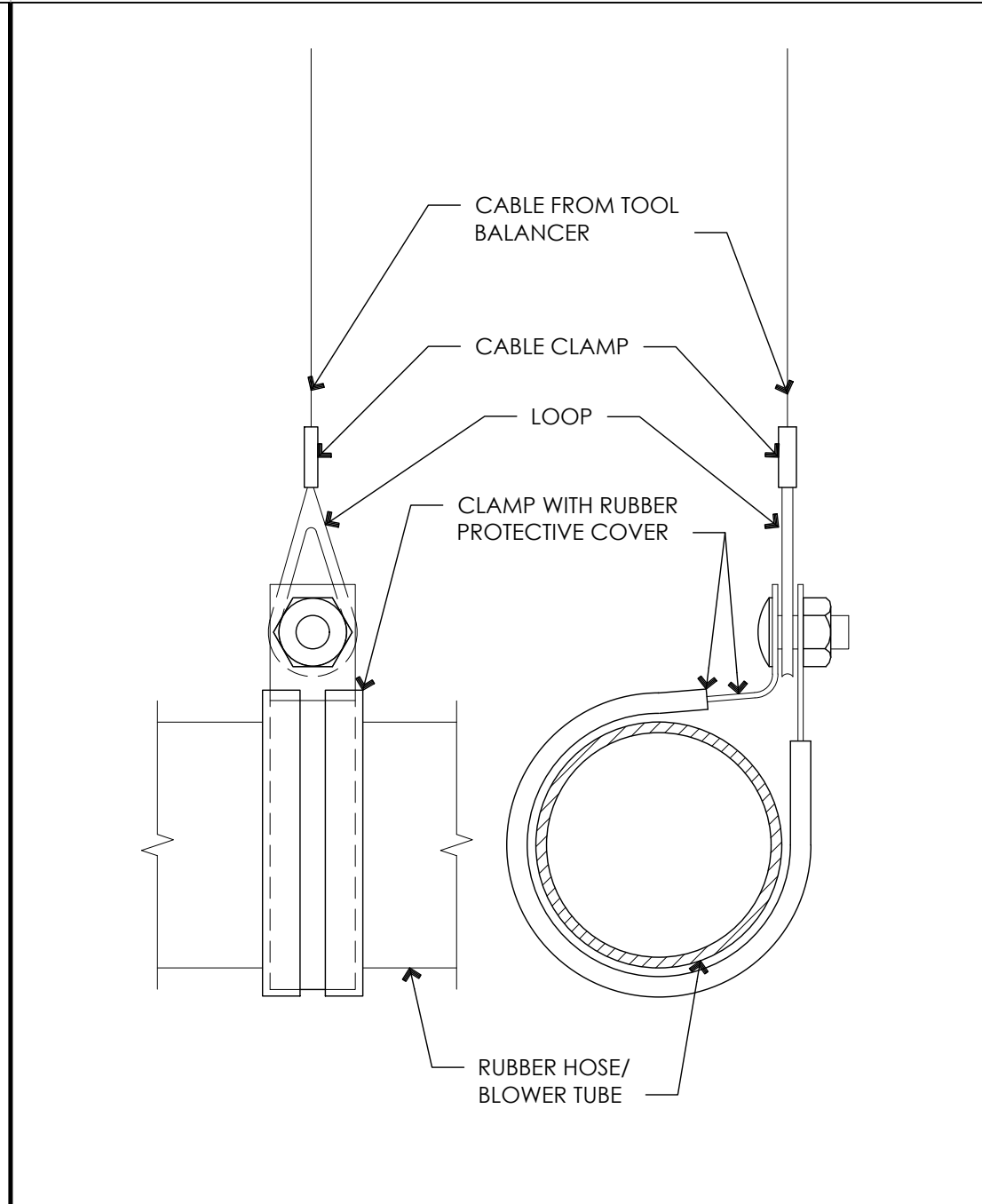
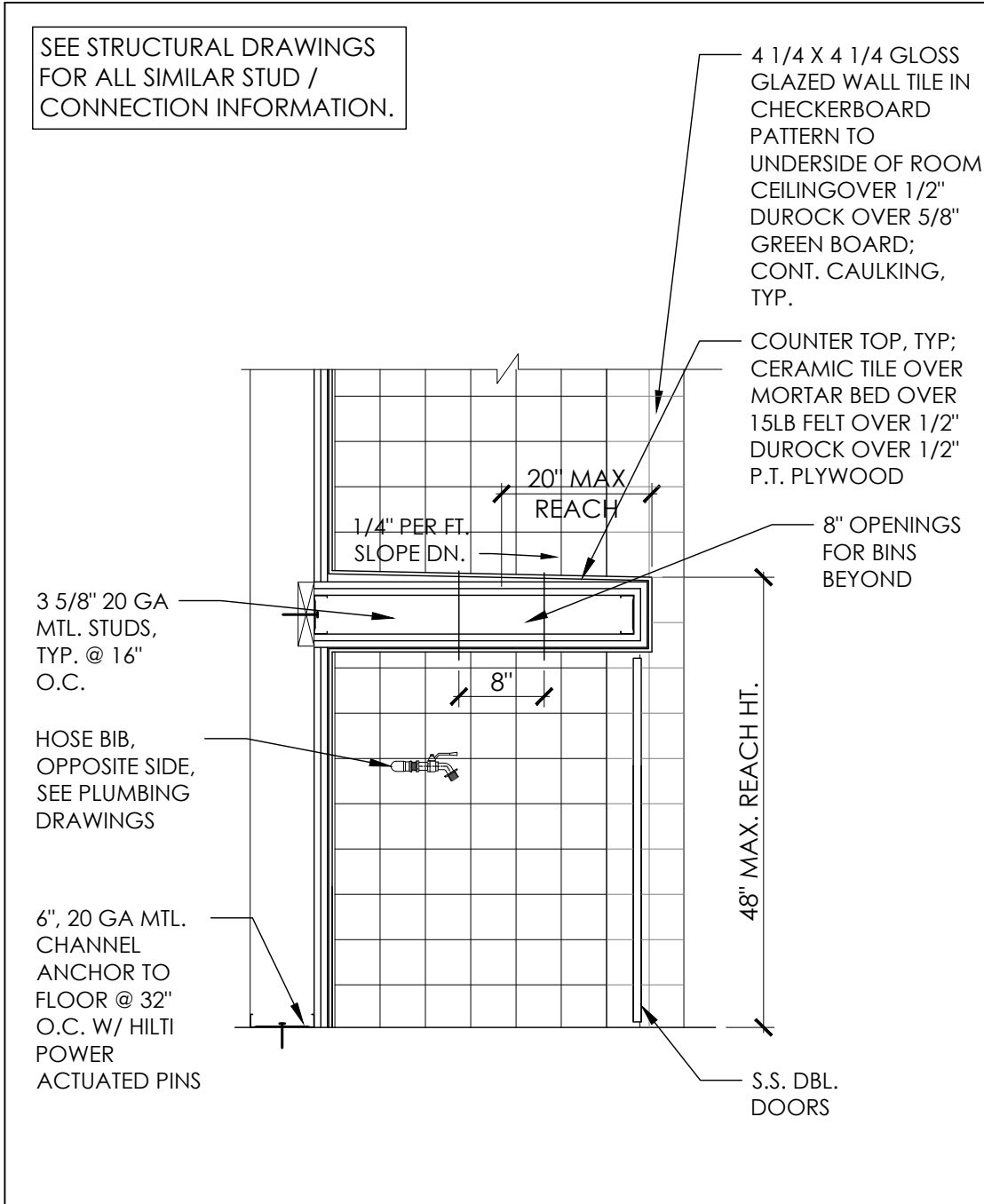
**DRAWING TITLE**

**PET WASH DETAILS**

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

**A7.1**



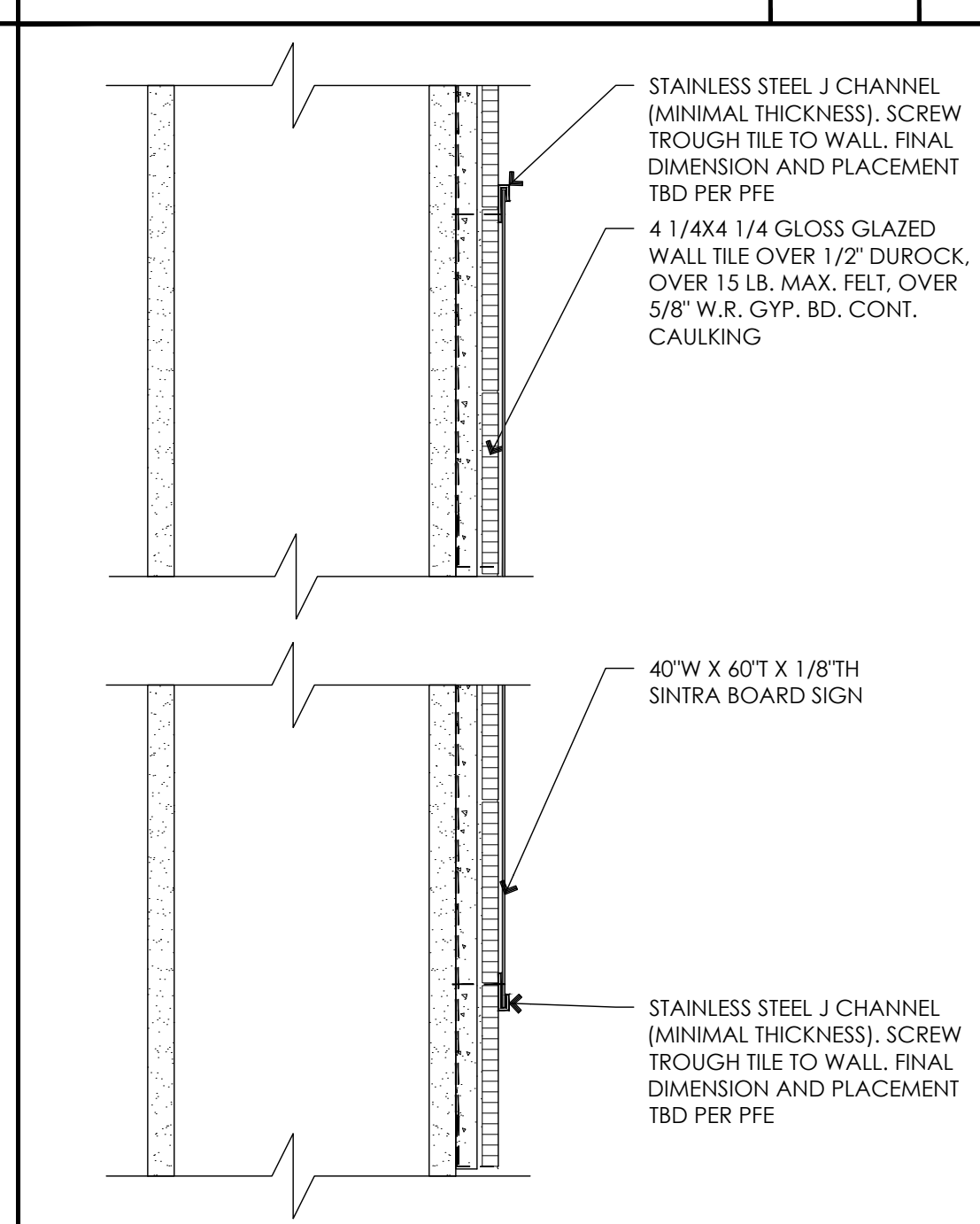
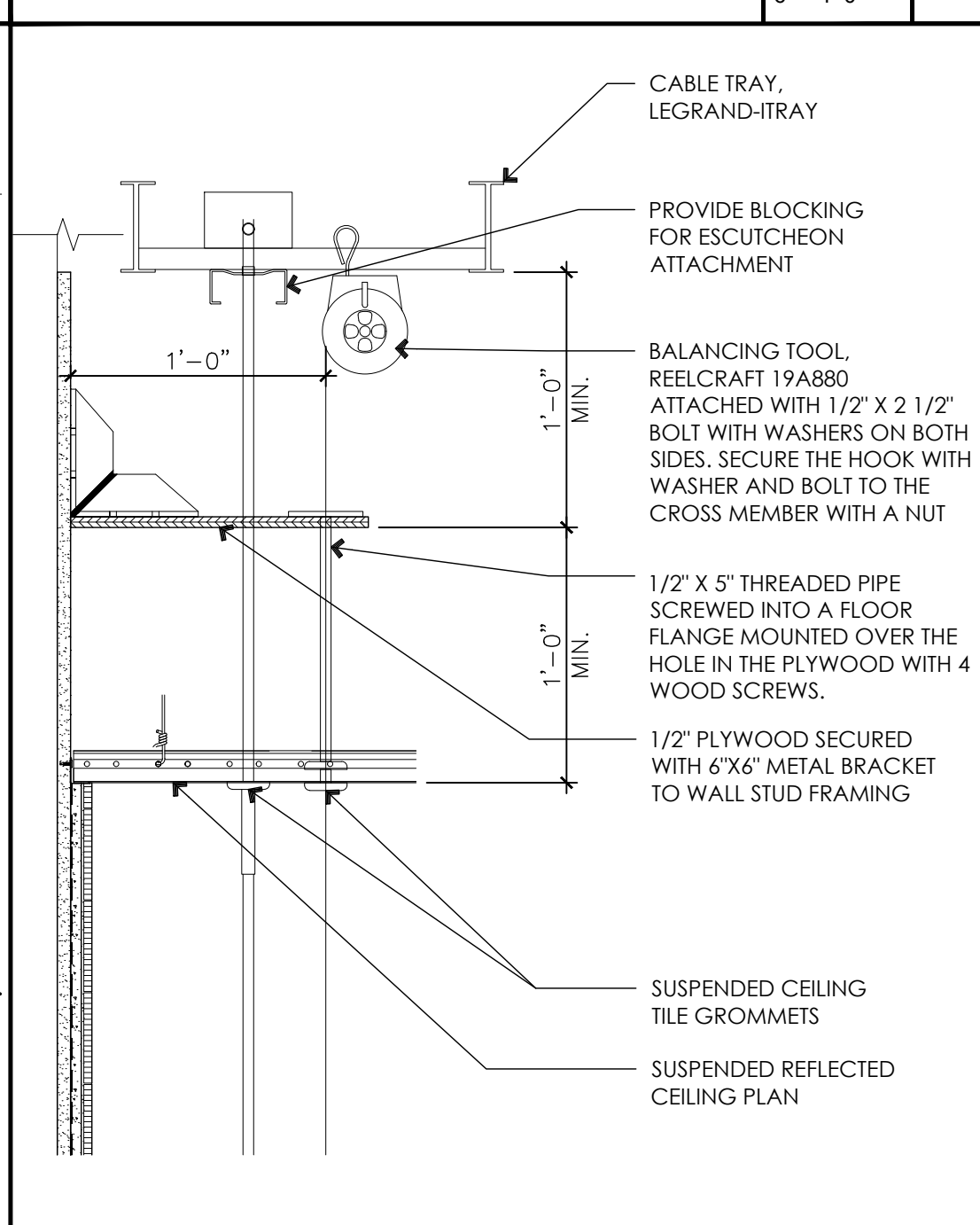
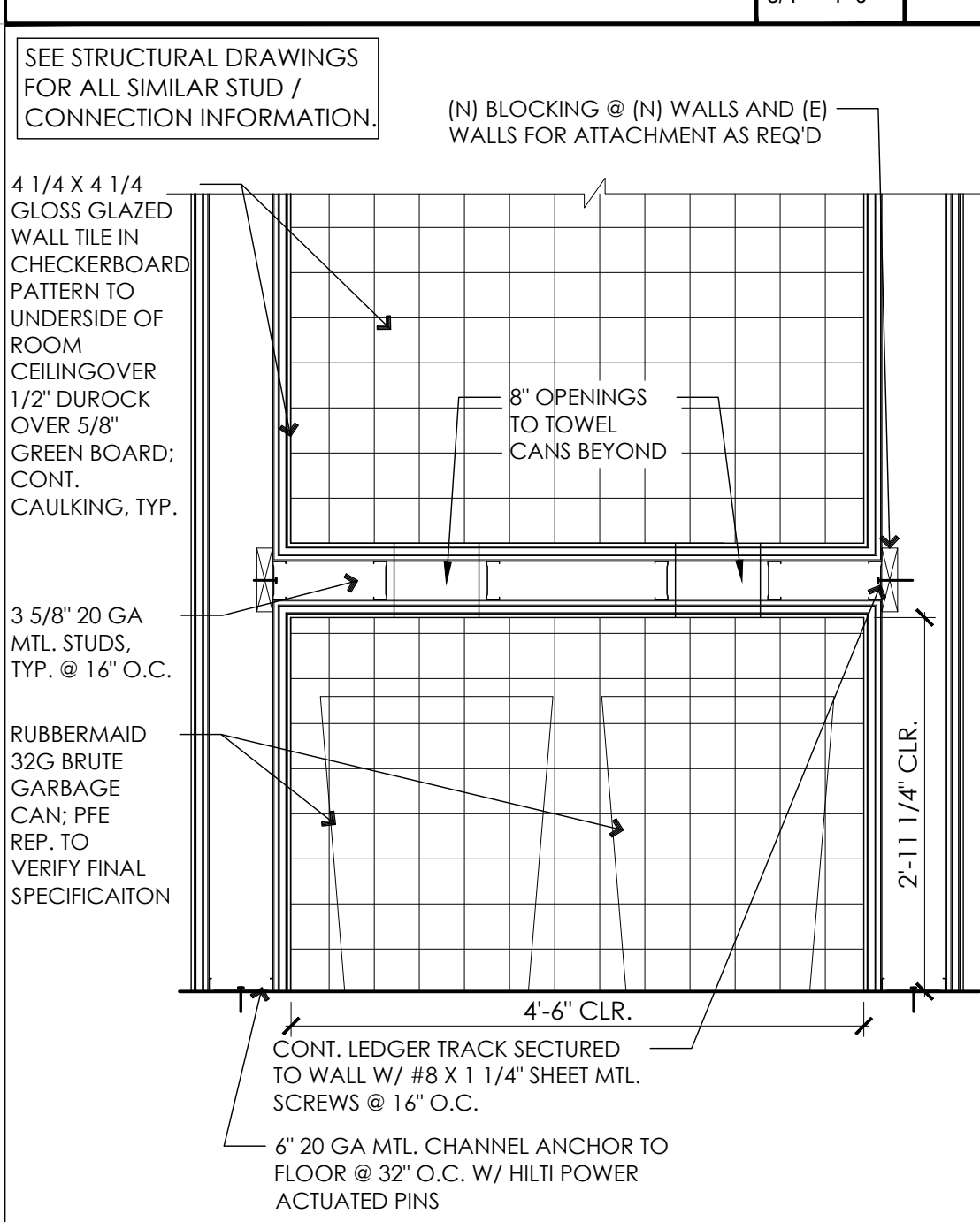


TOWEL & TRASH CABINET SCALE: 3/4" = 1'-0" 15

PET WASH - HOSE ATTACHMENT SCALE: 6" = 1'-0" 12

NOT USED SCALE: 9

PET TUB - PLATFORM SECTION PURSE ALCOVE SCALE: 6" = 1'-0" 12



ITEMS	DESCRIPTION	CAROLINA PRIDE		GC		PFE	
		EXISTING FURNISH	INSTALL	EXISTING FURNISH	INSTALL	EXISTING FURNISH	INSTALL
1.	WATER HEATER (WH-1)						
2.	HOT WATER RE-CIRCULATING PUMP AND ASSOCIATE PIPING						
3.	HOT WATER RETURN PUMP AND ASSOCIATE PIPING						
4.	HOT WATER RETURN PUMP						
5.	TEMPERING VALVES AND PIPING FROM WH-1						
6.	FLOOR SINK FOR WH-1						
7.	HOT AND COLD WATER SUPPLY AND RETURN PIPES						
8.	BUSTER WATER HEATER						
9.	WASH SYSTEM MAIN PUMP						
10.	PET WASH DISPENSING SYSTEM (DS)						
11.	HEATING COIL AND FILTER						
12.	SHEET METAL TRANSITION FOR HEATING COIL						
13.	SUPPLY AIR TEMPERATURE SENSOR						
14.	ALL PVC PIPING AT HEATING COIL, BLOWERS, TO CEILING STUB OUT						
15.	ALL RUBBER TUBING FROM MIXING PANEL TO CABLE TRAY						
16.	ALL RUBBER TUBING FROM CEILING						
17.	FLEXIBLE DRYER HOSE						
18.	SPRAYER						

TOWEL & TRASH CABINET SCALE: 3/4" = 1'-0" 14

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

SIGN PANEL ATTACHMENT SCALE: 3" = 1'-0" 8

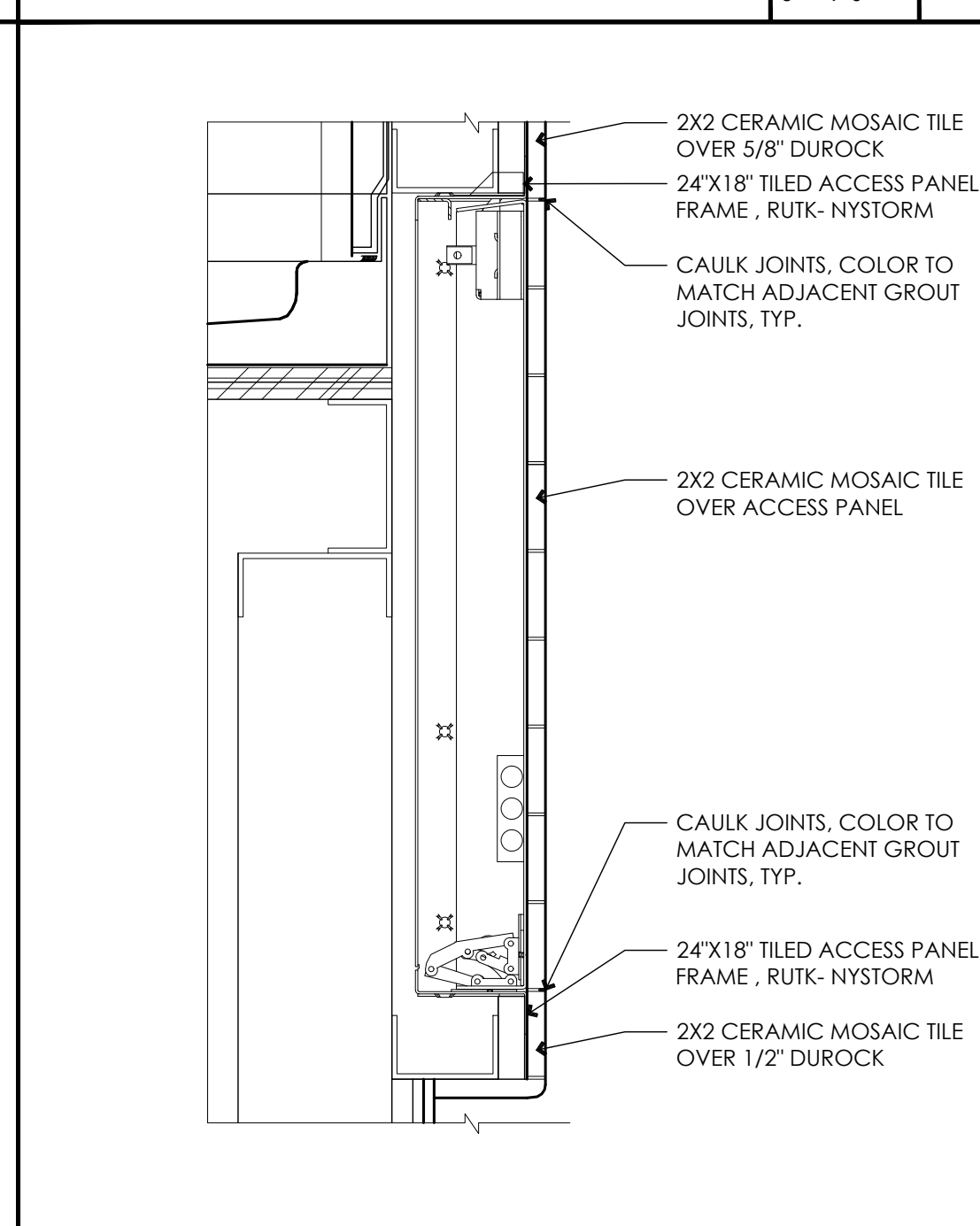
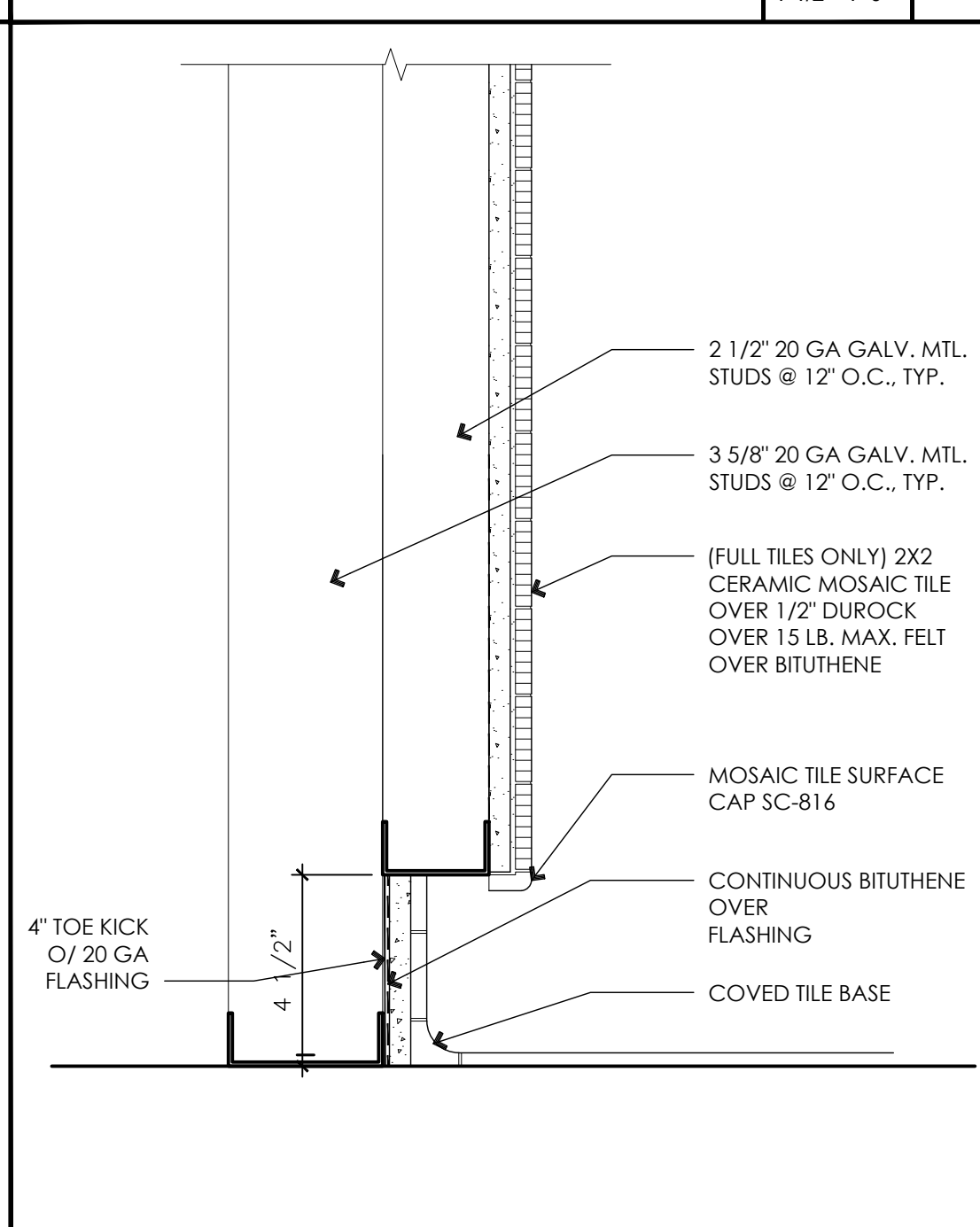
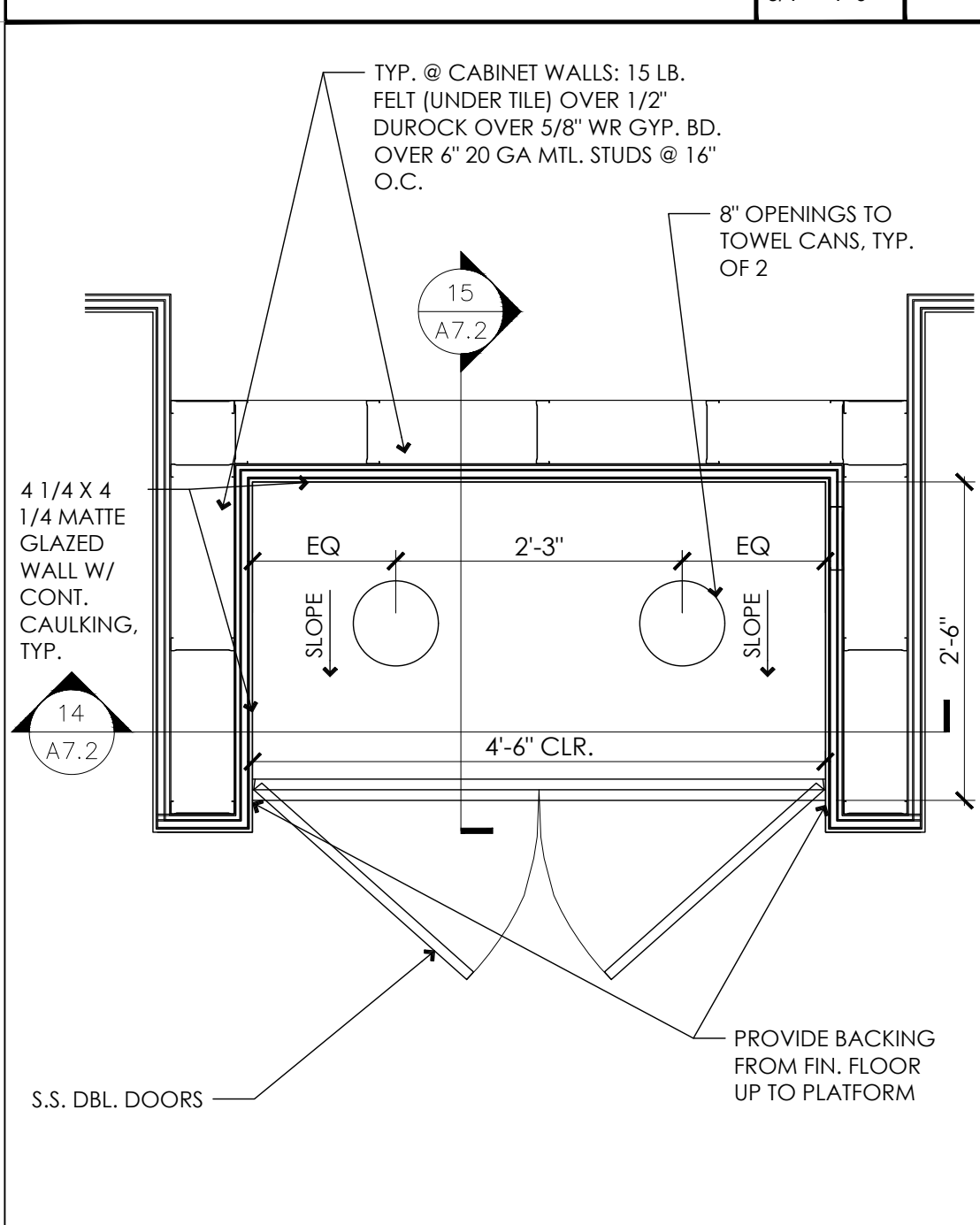
ITEMS	DESCRIPTION	CAROLINA PRIDE		GC		PFE	
		EXISTING FURNISH	INSTALL	EXISTING FURNISH	INSTALL	EXISTING FURNISH	INSTALL
1.	ALL IN-LINE VOLTAGE AT MOTOR CONTROL CENTER						
2.	ALL LOW VOLTAGE AT MOTOR CONTROL CENTER						
3.	POWER AT CEILING FOR BUSTER WATER HEATER						
4.	MOTOR CONTROL CENTER PANEL (MCC)						
5.	BLOWER MOTORS						
6.	CABLE TRAY						
7.	BLOWER MOTORS SHELVE						
8.	STAINLESS STEEL EYE HOOK						
9.	TOOLING BALANCER						
10.	LEASH HANGERS						
11.	COIN BOX						
12.	COIN BOX COVER AND LABELS						
13.	HANGER FOR FLEXIBLE DRYER HOSE						
14.	CONNECTOR FOR SPRAYER TO BALANCING CABLE						

GC. TO COORDINATE SIZE W/ CP. LEGRAND-ITRAY-4A128

JM FASTENER

REELCRAFT 19A880

SEE 1/AO.2 FOR ADDITIONAL RESPONSIBILITY SCHEDULE FOR PET WASH.



TOWEL & TRASH CABINET SCALE: 3/4" = 1'-0" 13

PET TUB - COVE DETAIL SCALE: 3" = 1'-0" 10

ACCESS PANEL DETAIL SCALE: 3" = 1'-0" 7

PET WASH SYSTEM RESPONSIBILITY SCHEDULE SCALE: NTS 1

CLIENT

ARCHITECT

360 22nd Street, Suite 800  
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p 415.541.0977  
www.msaf.com

REGISTRATION

CONSULTANT

UNAUTHORIZED CHANGES

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ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

PROJECT LOCATION

PET FOOD EXPRESS  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

PET WASH DETAILS

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

A7.2



CLIENT

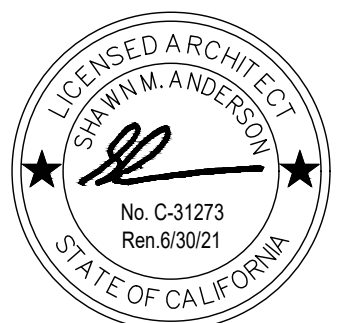


ARCHITECT



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NO.	DATE	REVISION NAME
	4.19.19	ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

PROJECT LOCATION

1 PET FOOD EXPRESS  
4710 Freepoint Blvd, Suite 12K-A  
Sacramento, CA 95822

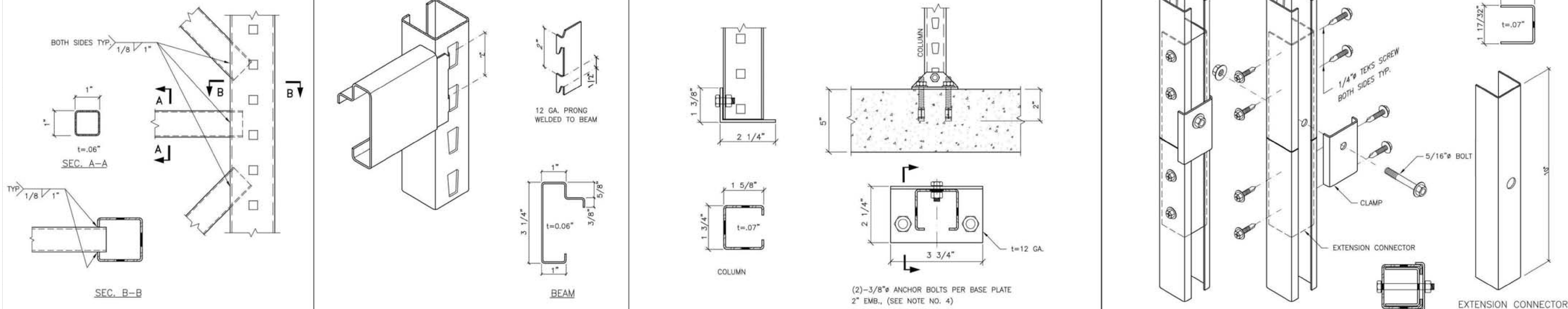
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RACKING DETAILS

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PROJECT NUMBER: 18404  
SHEET NUMBER:

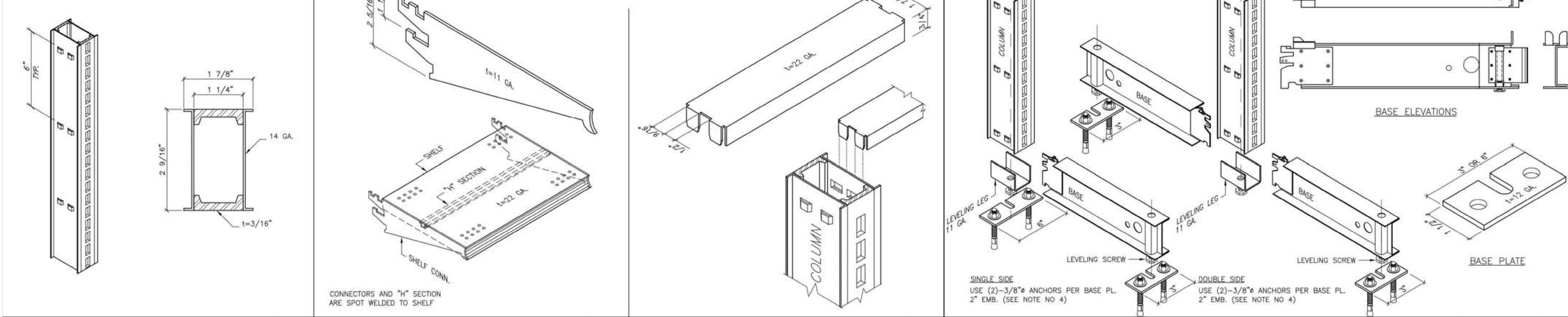
A7.4

WIDESPAN SHELVING DETAILS

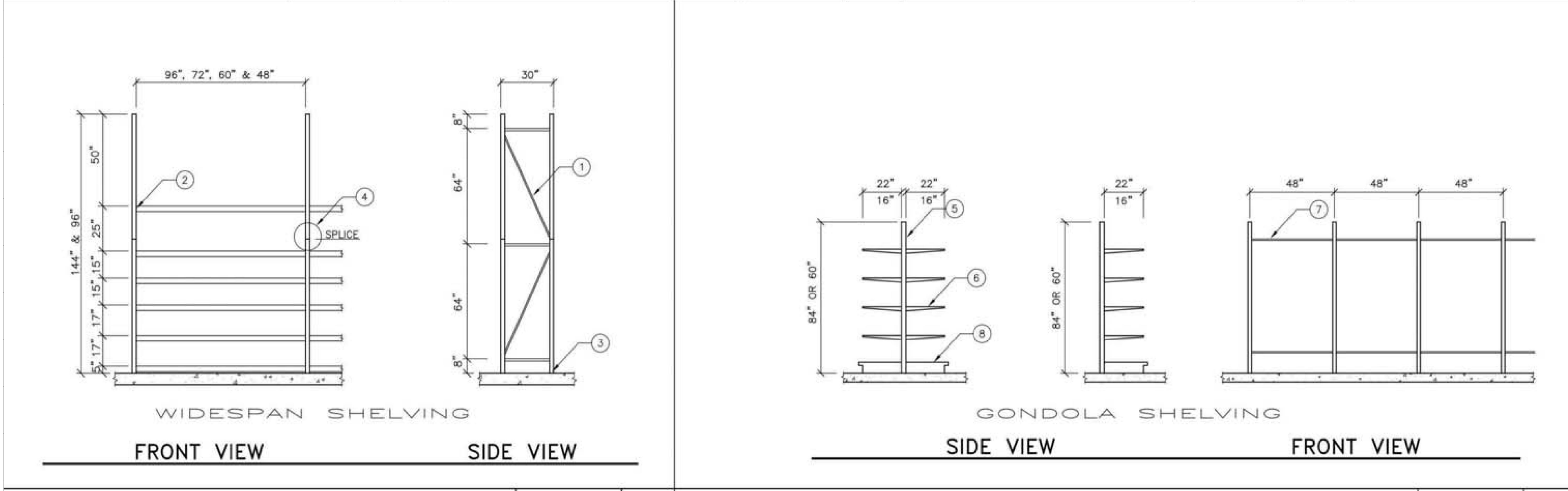


BRACE TO COL. CONNECTION 1 BEAM TO COL. CONNECTION 2 BASE PLATE DETAIL 3 SPLICE DETAIL 4

GONDOLA SHELVING DETAILS



COLUMN 5 SHELF CONNECTOR 6 HORIZONTAL BRACING 7 COLUMN AND BASE PLATE DETAIL 8



WIDESPAN SHELVING 9 GONDOLA SHELVING 10

- NOTES:**
- DESIGN OF STEEL STORAGE RACKS AS SHOWN BY THESE DRAWINGS AND CALCULATIONS ARE IN COMPLIANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE 2016 EDITION
  - STEEL FOR ALL SHAPES FY=36 KSI, ASTM A570-85 GR.36 (EXCEPT AS NOTED)
  - NO FIELD WELDING IN THIS PROJECT ALL WELDED CONSTRUCTION IN A SHOP OF AN APPROVED FABRICATOR (E70XX ELECTRODES)
  - ALL ANCHORS HILTI KWIK BOLT-TZ (ESR-1917) SPECIAL INSPECTIONS REQUIRED
  - CONCRETE SLAB 5\"/>



CLIENT

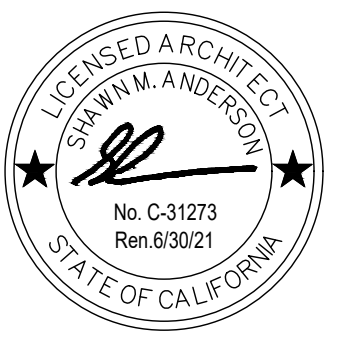


ARCHITECT



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NO.	DATE	REVISION NAME
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1	6.10.19	REVISION 1
	9.13.19	BID SET

PROJECT LOCATION

PET FOOD EXPRESS  
4710 Freepoint Blvd, Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

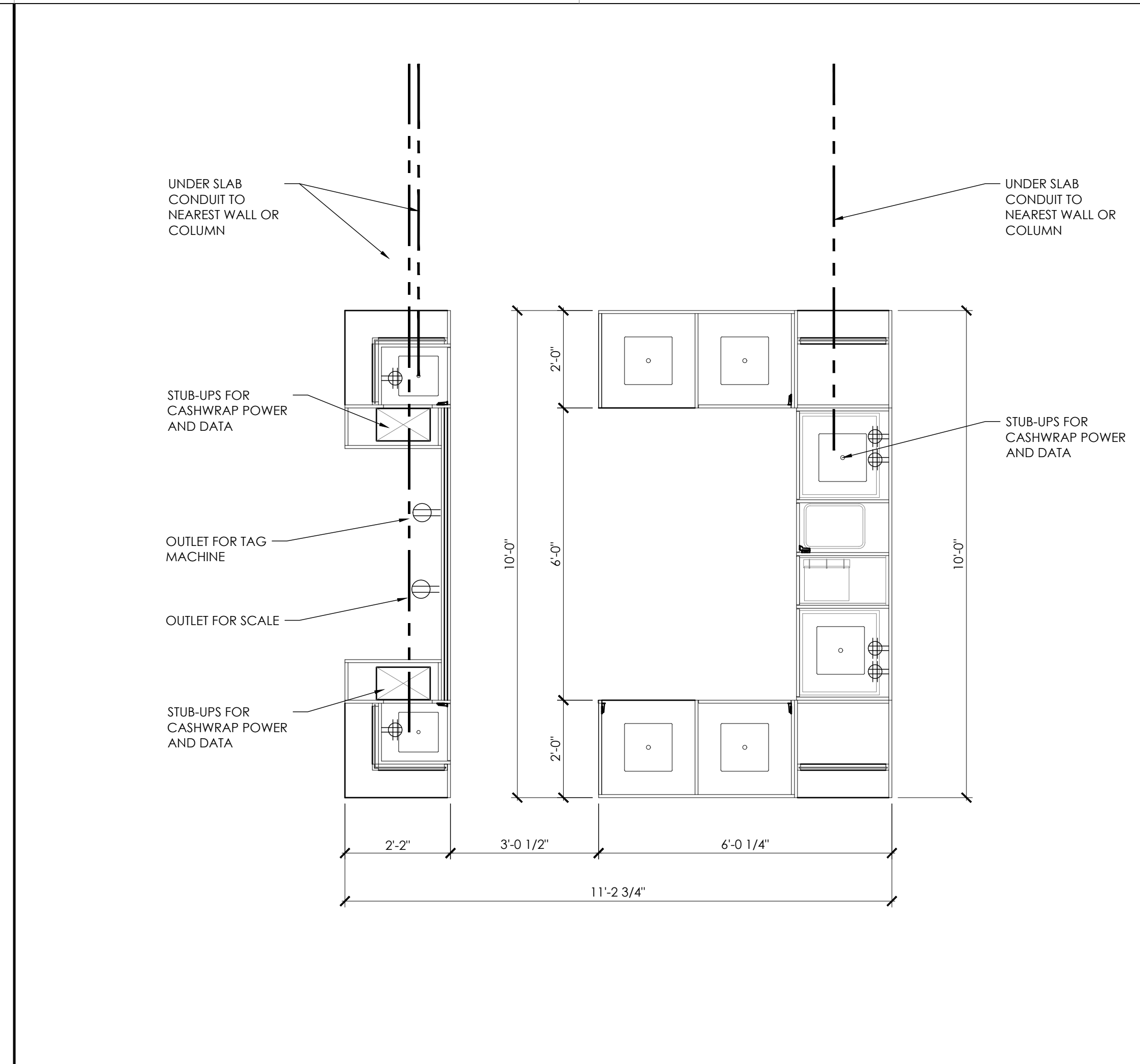
CASHWRAP DETAILS

SCALE: AS NOTED

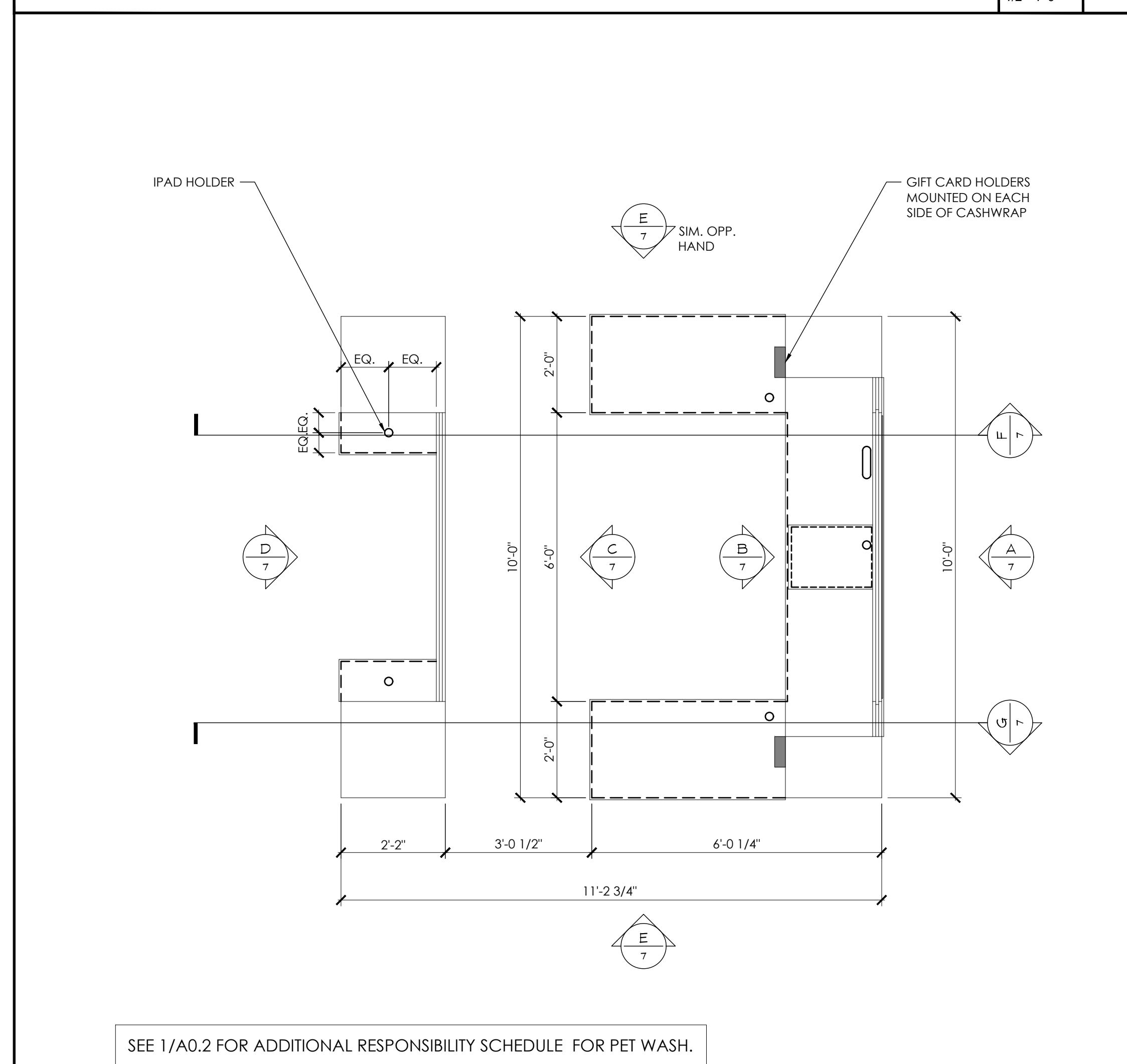
PROJECT NUMBER: 18404

SHEET NUMBER:

A7.5

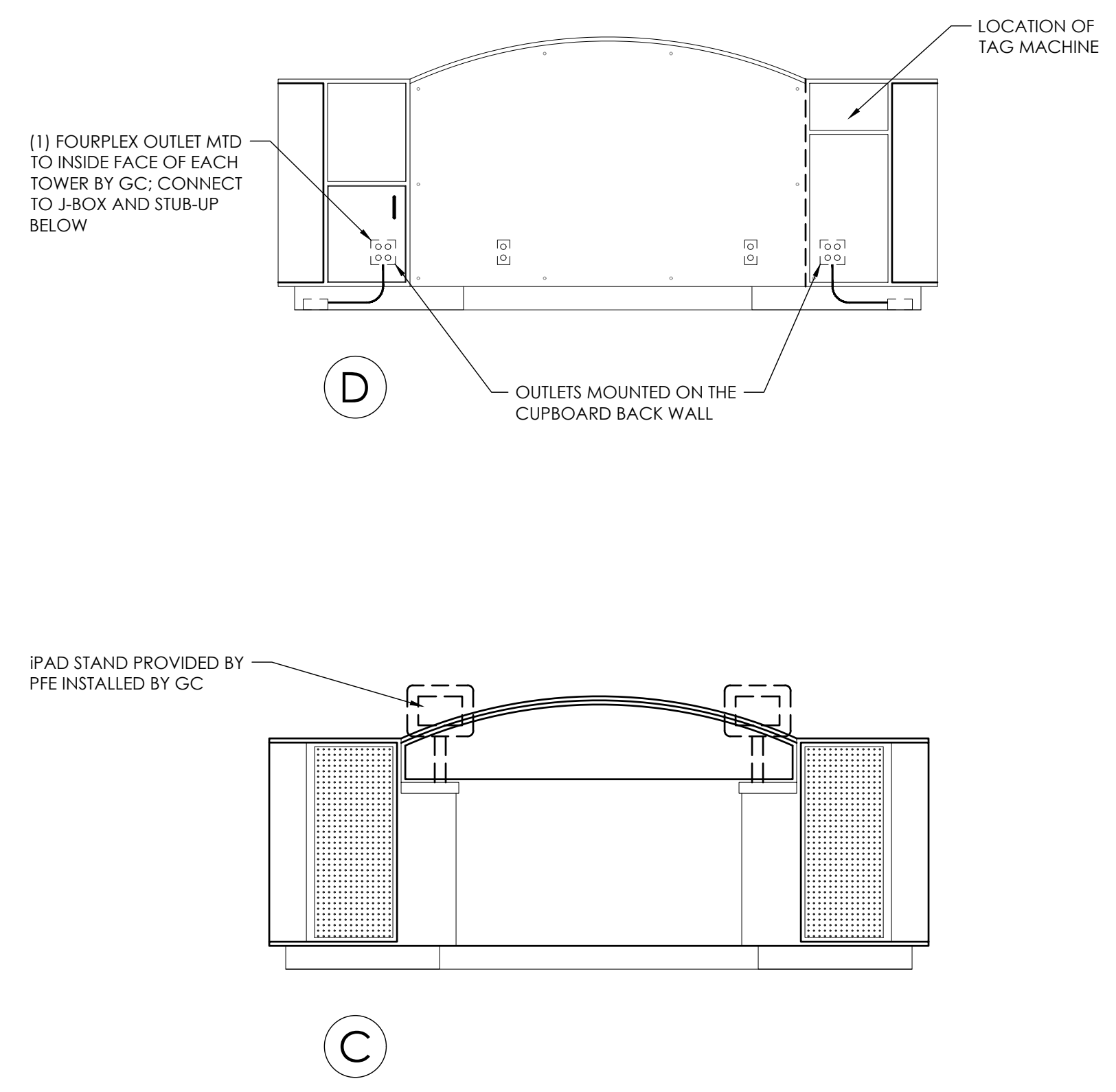


CASHWRAP PLAN SECTION SCALE: 1/2"=1'-0" 2

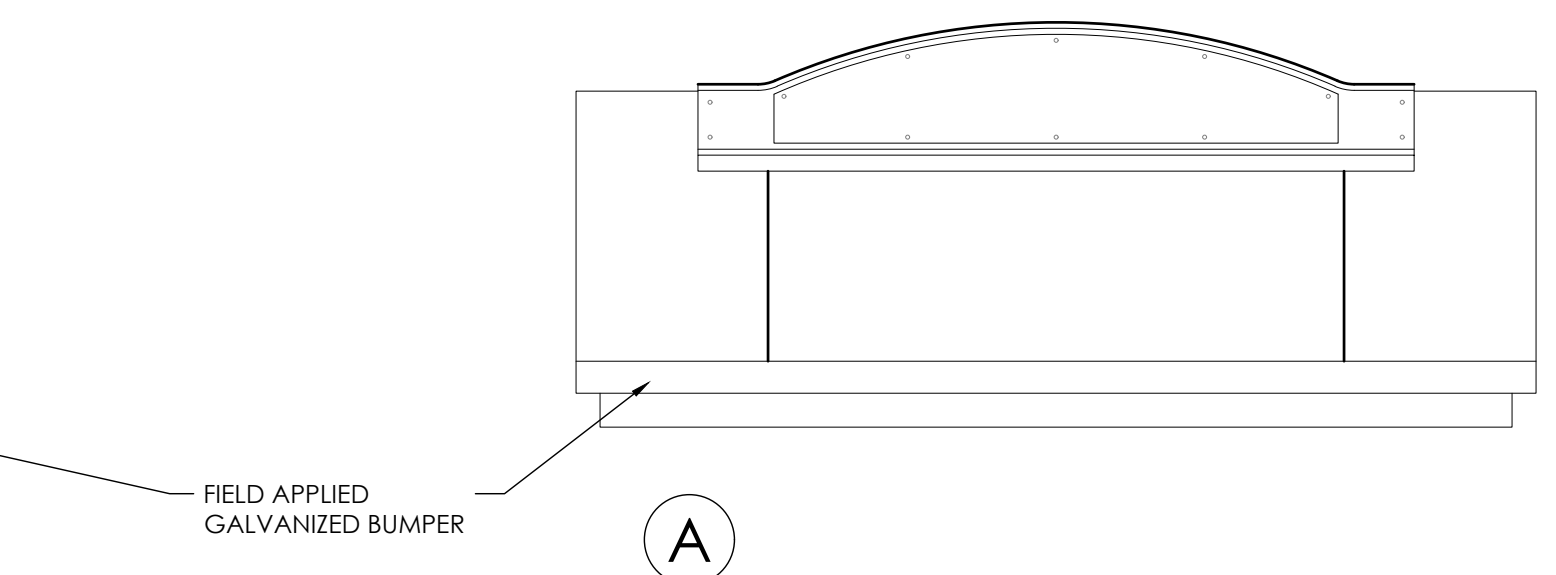
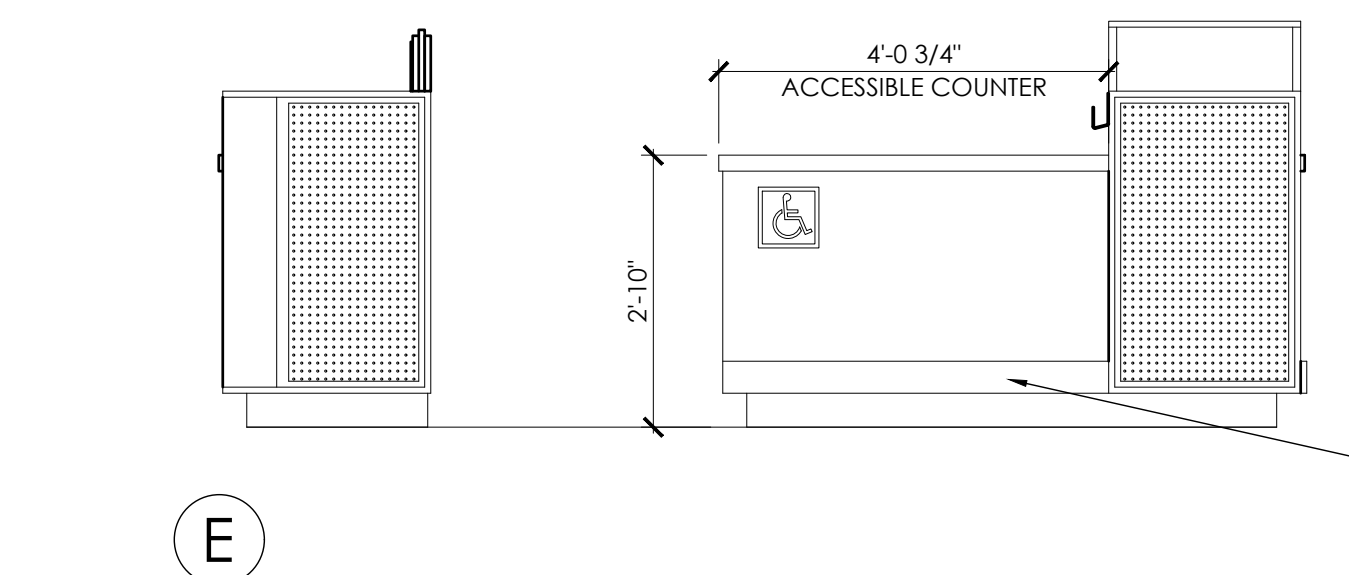
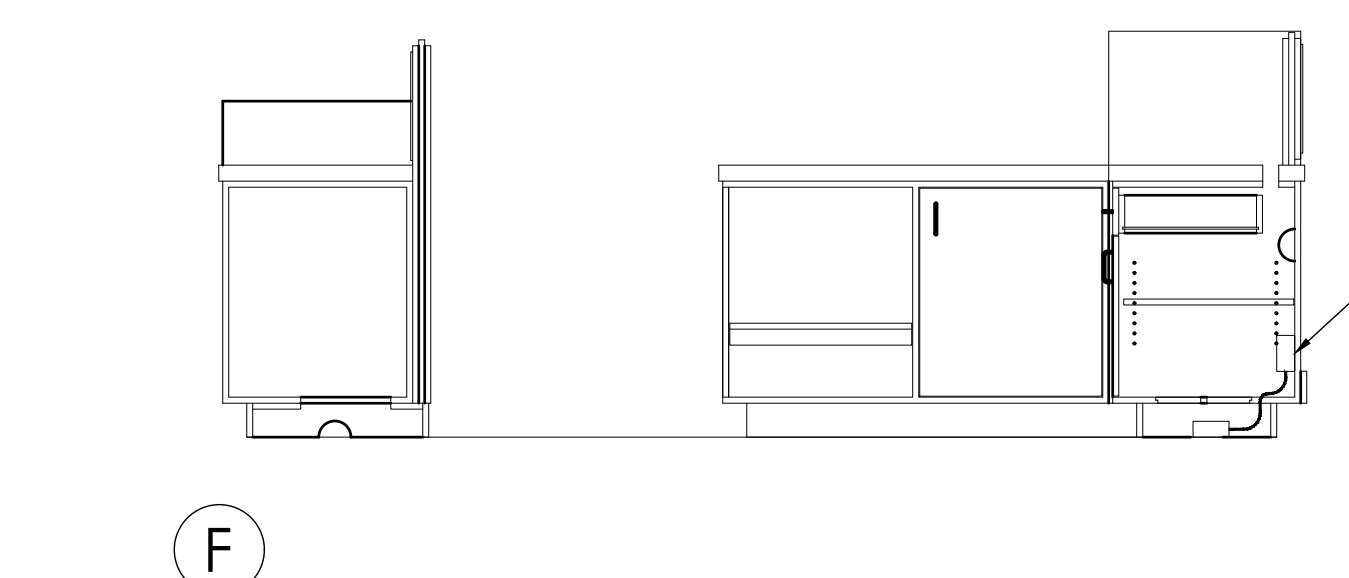
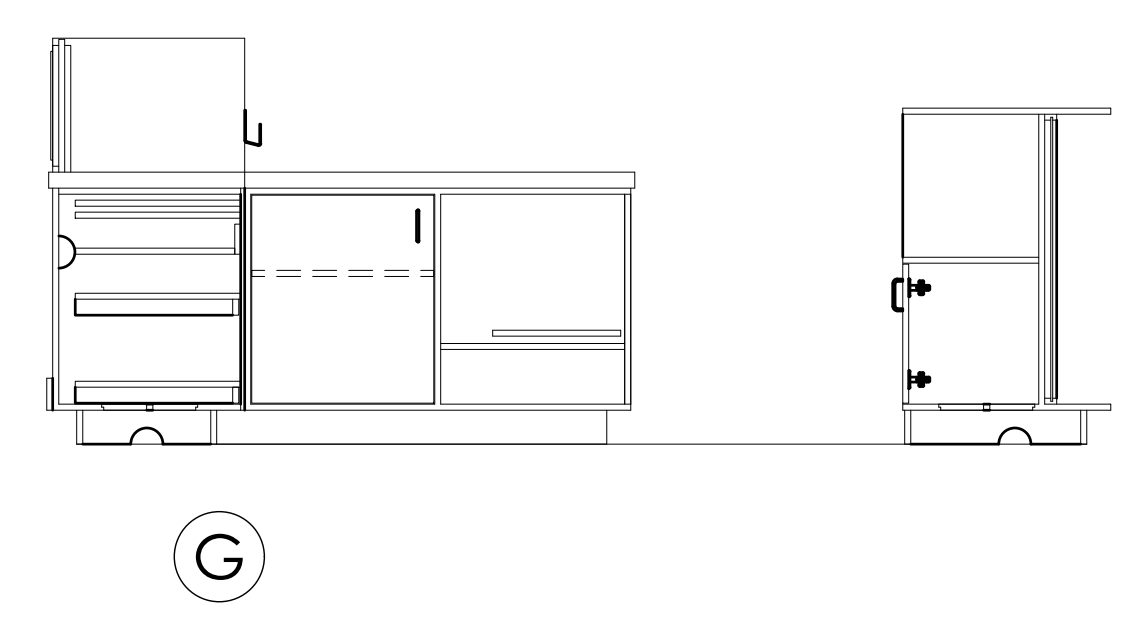


SEE 1/A0.2 FOR ADDITIONAL RESPONSIBILITY SCHEDULE FOR PET WASH.

CASHWRAP COUNTER PLAN SCALE: 1/2"=1'-0" 1



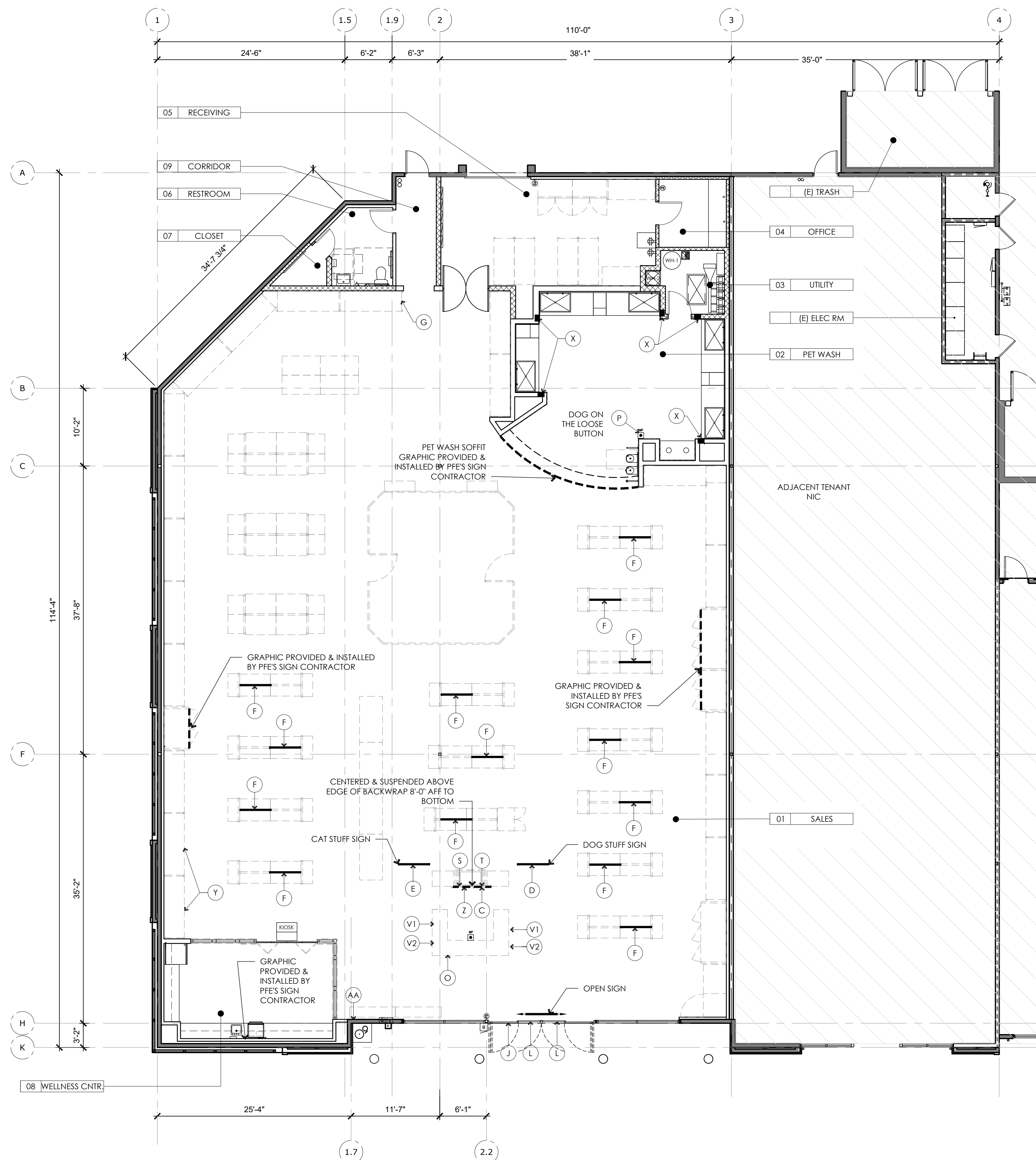
CASHWRAP ELEVATIONS AND SECTIONS SCALE: 1/2"=1'-0" 7











**LEGEND**

KEY	DESCRIPTION	DETAIL	COMMENTS
A	EMERGENCY EXIT ALARM WILL SOUND DOOR DECAL - 12' X 12' - DS	3/A9.2	
B	DOG DELL - 37.5" X 18.5" - CHALKBOARD - 2 PCS.	1/A9.3	
C	ABOUT US MICHAEL & MARK WOOD FRAME SIGN - 30" X 40"	1/A9.3	
D	DOG STUFF - 40" X 26" - CORRUGATED METAL / WOOD TRIM	1/A9.3	
E	CAT STUFF - 40" X 26" - CORRUGATED METAL / WOOD TRIM	1/A9.3	
F	GONDOLA TOPPER - 35.5" X 9" - CHALKBOARD / WOOD W/ CLEATS	2/A9.3	
G	OUR CUSTOMER CORK BOARD - 32" X 42" - WOOD BORDER / 3 MM BLACK SINTRA TOPPER / CORK	12/A9.2	
H	COMMUNITY NEWS BOARD - 32" X 42" - WOOD BORDER / 3MM BLACK SINTRA TOPPER / CORK	14/A9.2	NOT USED AT THIS STORE
I	WHATS HAPPENING SIDEWALK		NO INSTALLATION REQUIRED
J	HOUR SIGN	3/A9.2	
K	AWARDS DECAL	3/A9.2	
L	WATCH YOUR TAIL DECAL	3/A9.2	
M	EMPLOYEES ONLY SIGN	3/A9.2	
N	PFE HISTORY		NOT USED AT THIS STORE
O	CASH WRAP WELCOME TO PET FOOD EXPRESS CHALK BOARD	1/A9.2	
P	LOOSE DOG EMERGENCY SIGN IN PET WASH AREA	10/A9.2	
Q	CAT ADOPTION SIGN (SINGLE SIDED)		NOT USED AT THIS STORE
Q1	CAT ADOPTION SIGN (DOUBLE SIDED)		NOT USED AT THIS STORE
R	FREEZER WRAP		PROVIDED AND INSTALLED BY PFE
S	WEIGH YOUR PET CHALK BOARD	1/A9.2	
T	WEIGH YOUR PET INSTRUCTIONS	1/A9.2	
U	MY MUTT STAR CUT - WHITE SINTRA		
V1	LOW PRICE GUARANTEE SIGN - 8.5" X 11"	1/A9.2	NOT USED AT THIS STORE
V2	RETAIL POLICY SIGN - 8.5" X 11"	1/A9.2	NOT USED AT THIS STORE
W	ABOUT THE PET WASH - (2) 40" X 60" 3MM WHITE SINTRA	6/A9.2	VERIFY LOCATION WITH PFE
X	PFE COIN BOX		VERIFY LOCATION WITH PFE
Y	NO LEAD SET - 40" X 40" 3MM WHITE SINTRA	11/A9.2	
Z	NO LEAD SET - 15" X 22.5"	7/A9.2	
AA	EVENT SIGN		

CLIENT

ARCHITECT

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REGISTRATION

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ISSUE / REVISION

NO.	DATE	REVISION NAME
4.19.19		ISSUE FOR PERMIT
6.10.19		REVISION 1
9.13.19		BID SET

PROJECT LOCATION

1 PET FOOD EXPRESS  
4710 Freeport Blvd, Suite 12K-A  
Sacramento, CA 95822

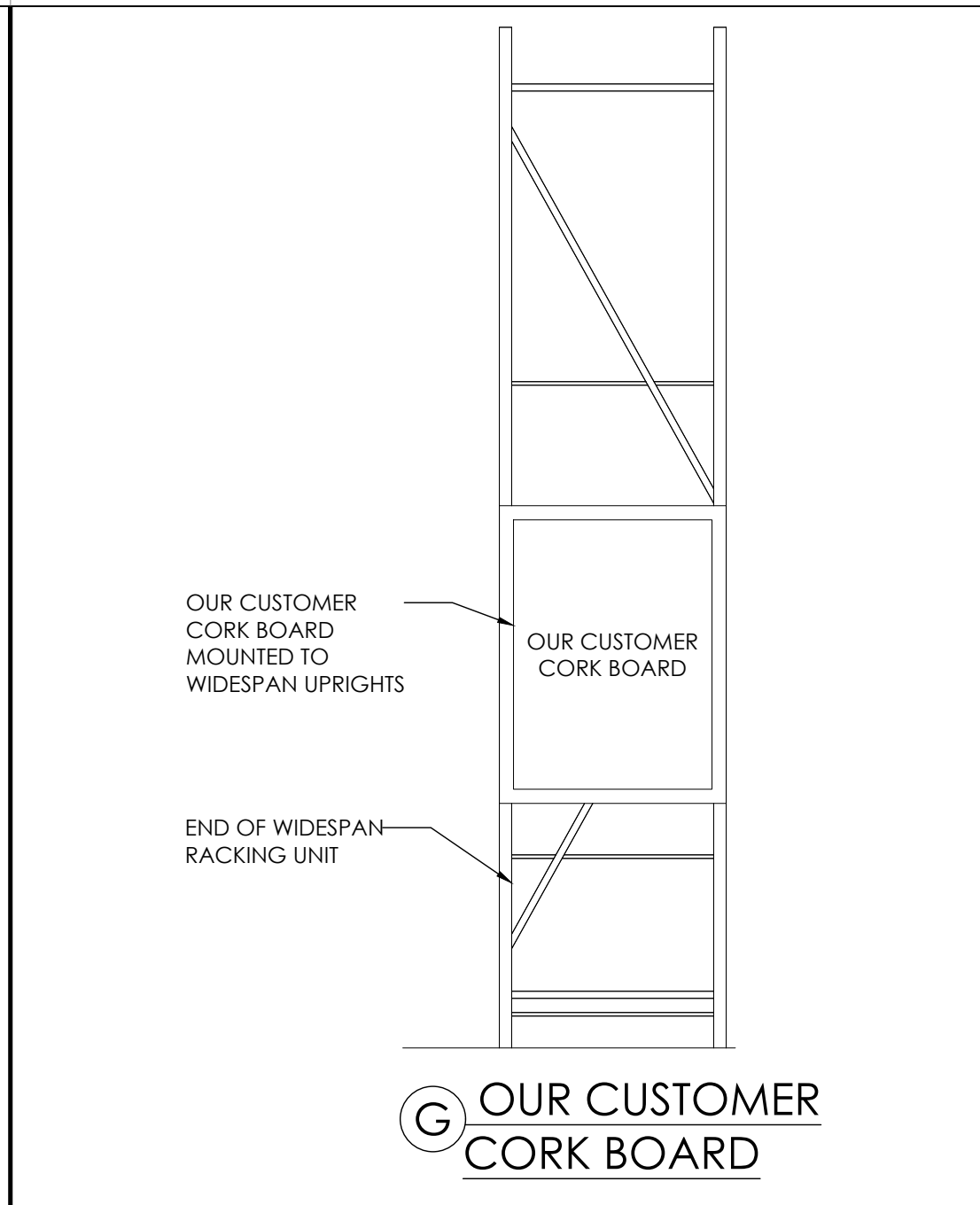
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MERCHANDISING SIGN PLAN

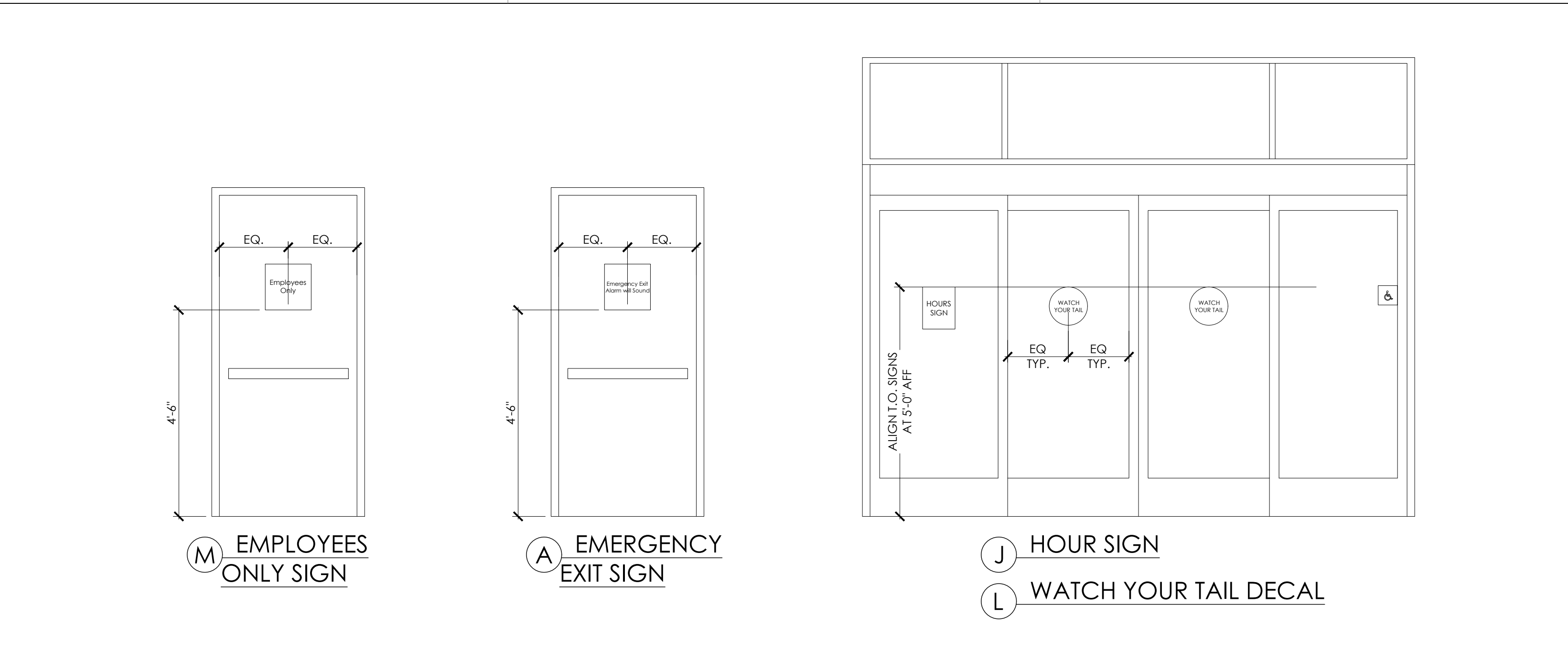
SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

**FOR REFERENCE ONLY.  
SIGNS PROVIDED BY PFE  
AND INSTALLED BY PFE.**

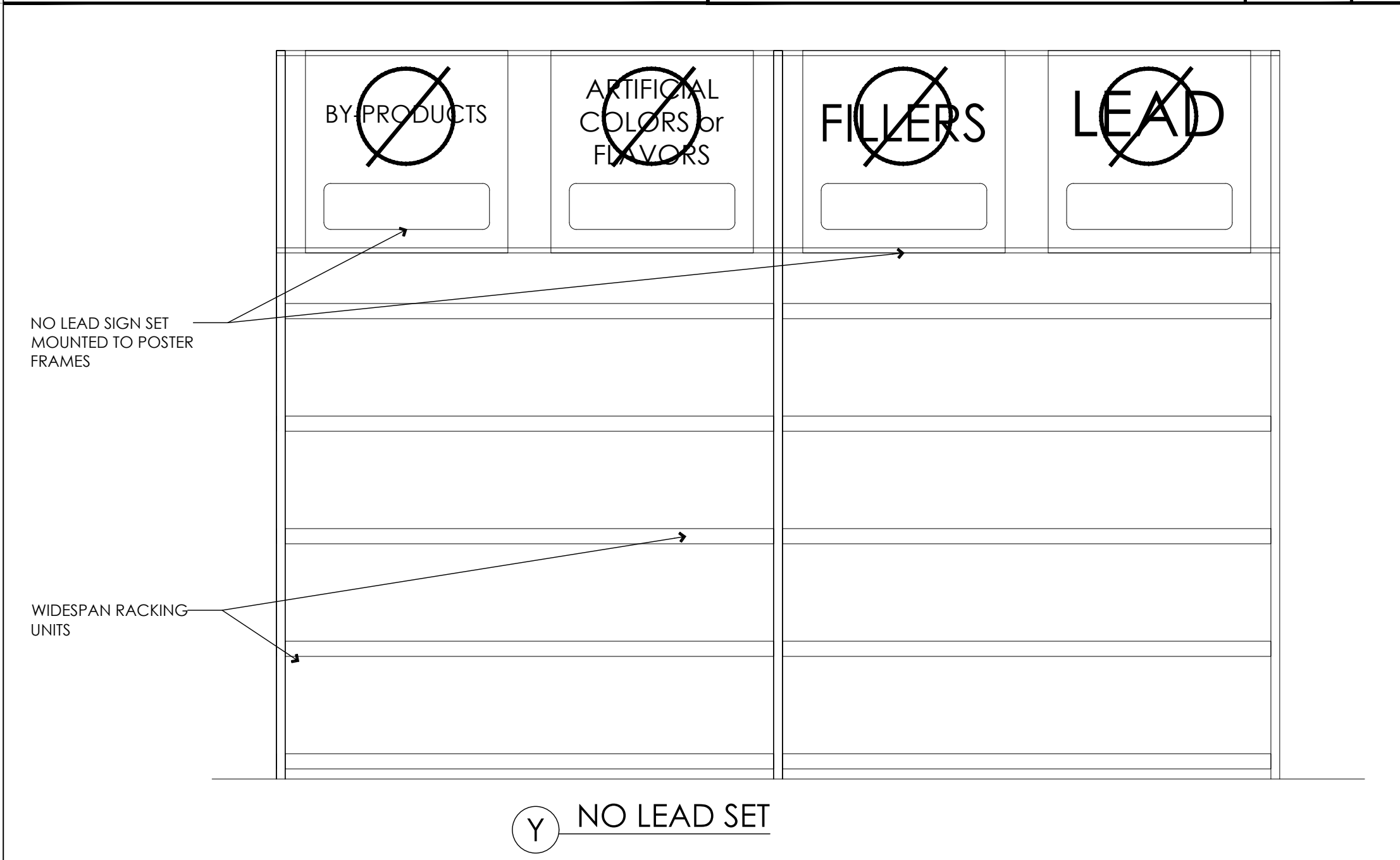




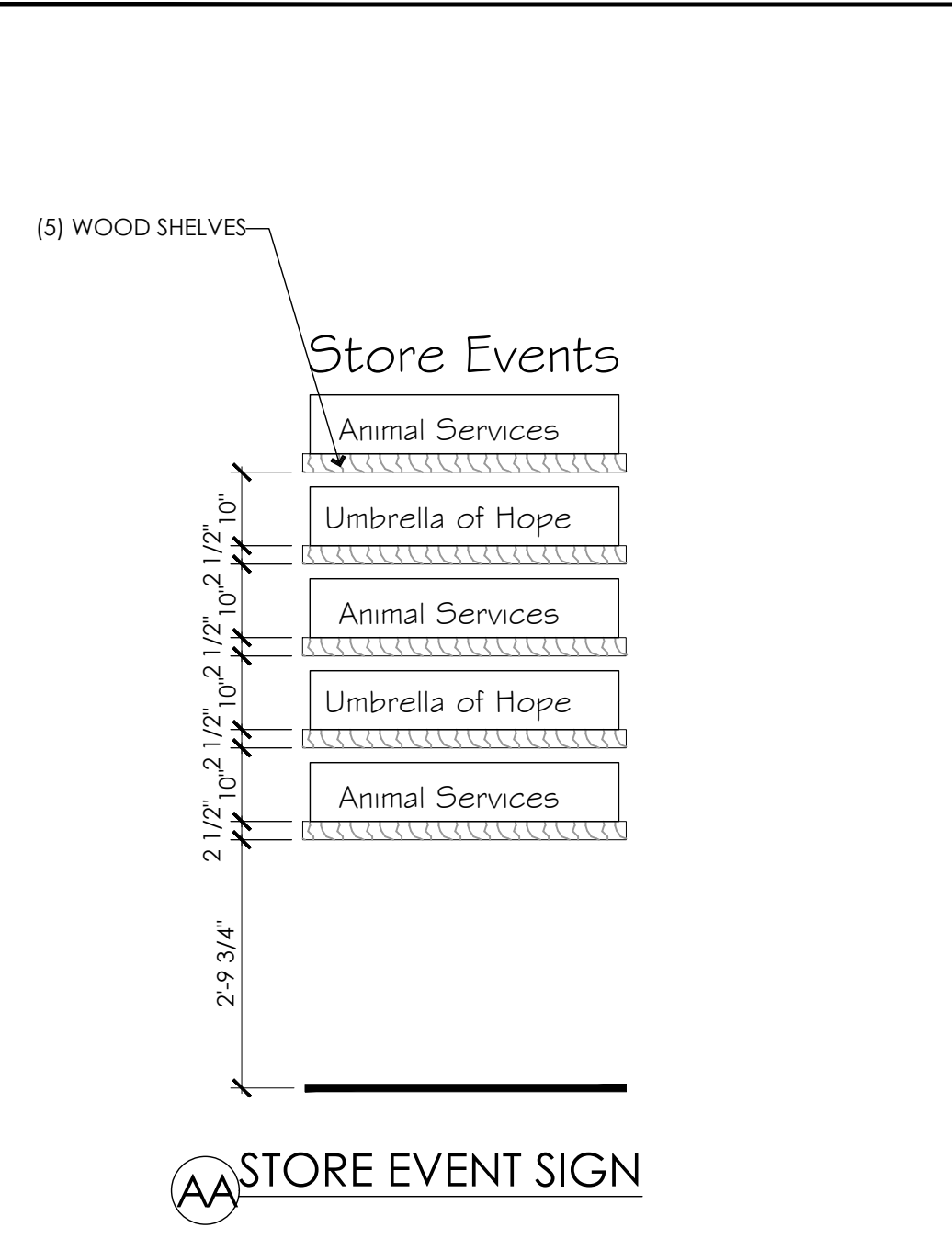
**RACK MOUNTED SIGNAGE** SCALE: 1/2" = 1'-0" **12**



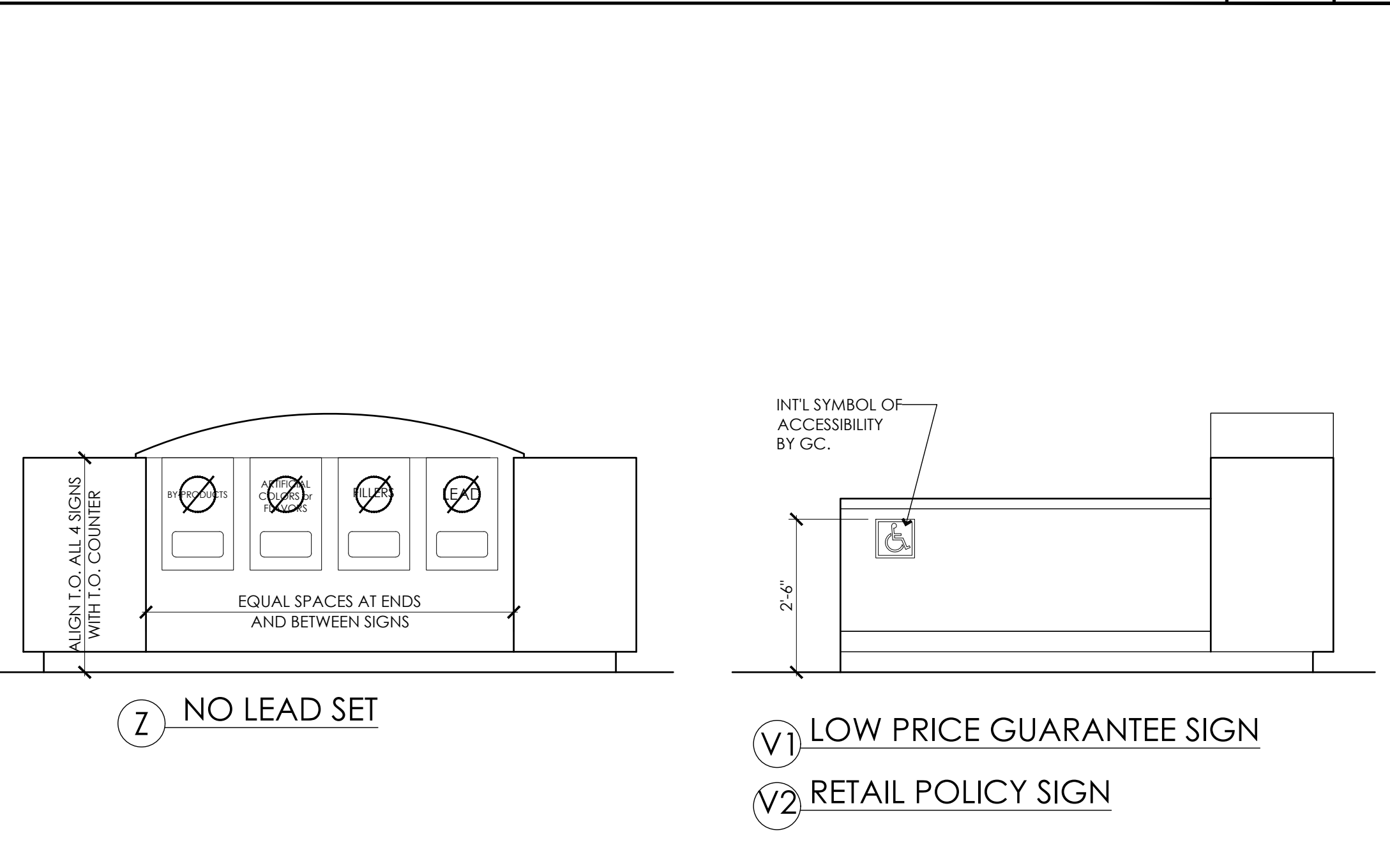
**DOOR MOUNTED SIGNAGE** SCALE: 1/2" = 1'-0" **3**



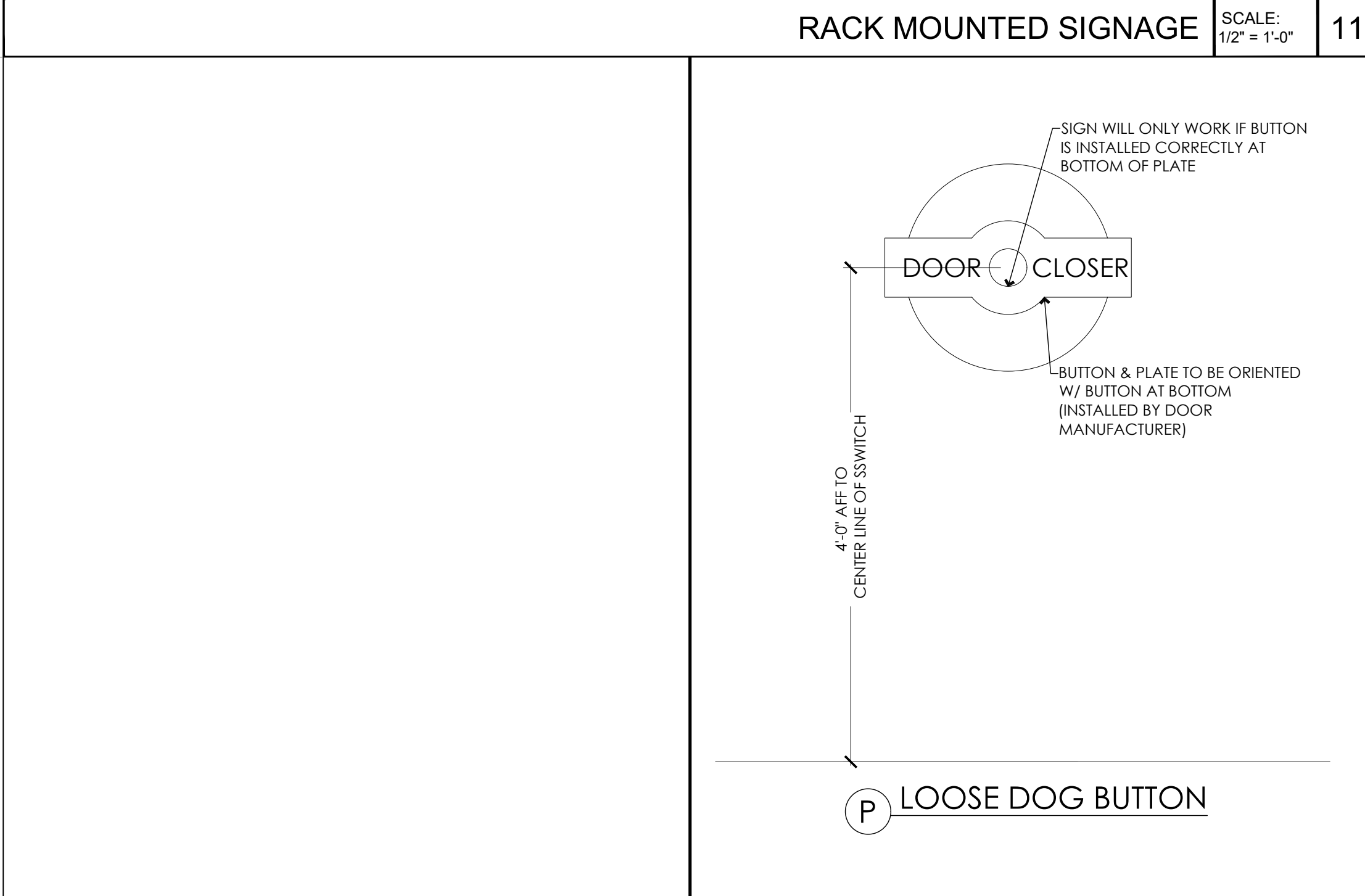
**RACK MOUNTED SIGNAGE** SCALE: 1/2" = 1'-0" **11**



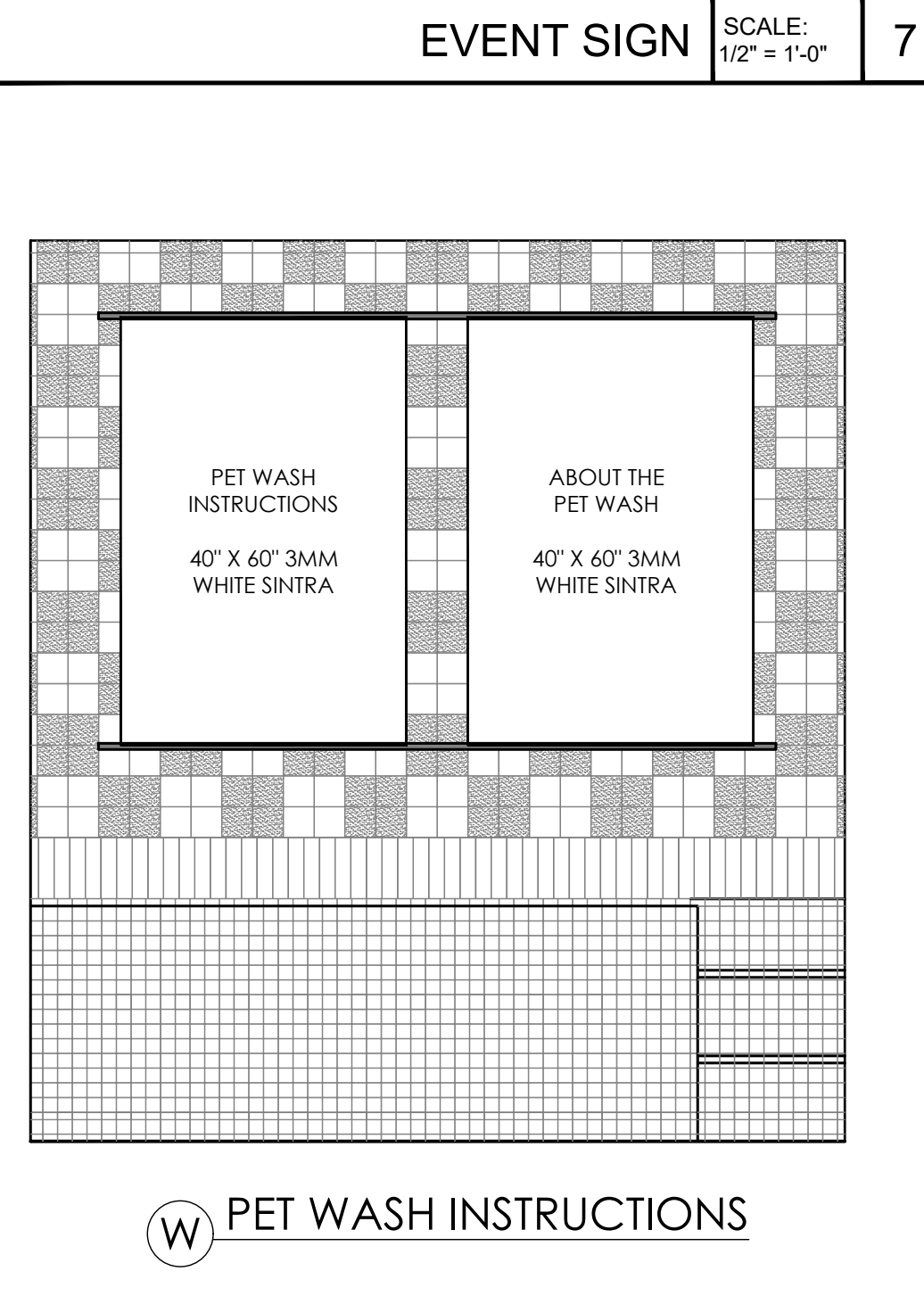
**EVENT SIGN** SCALE: 1/2" = 1'-0" **7**



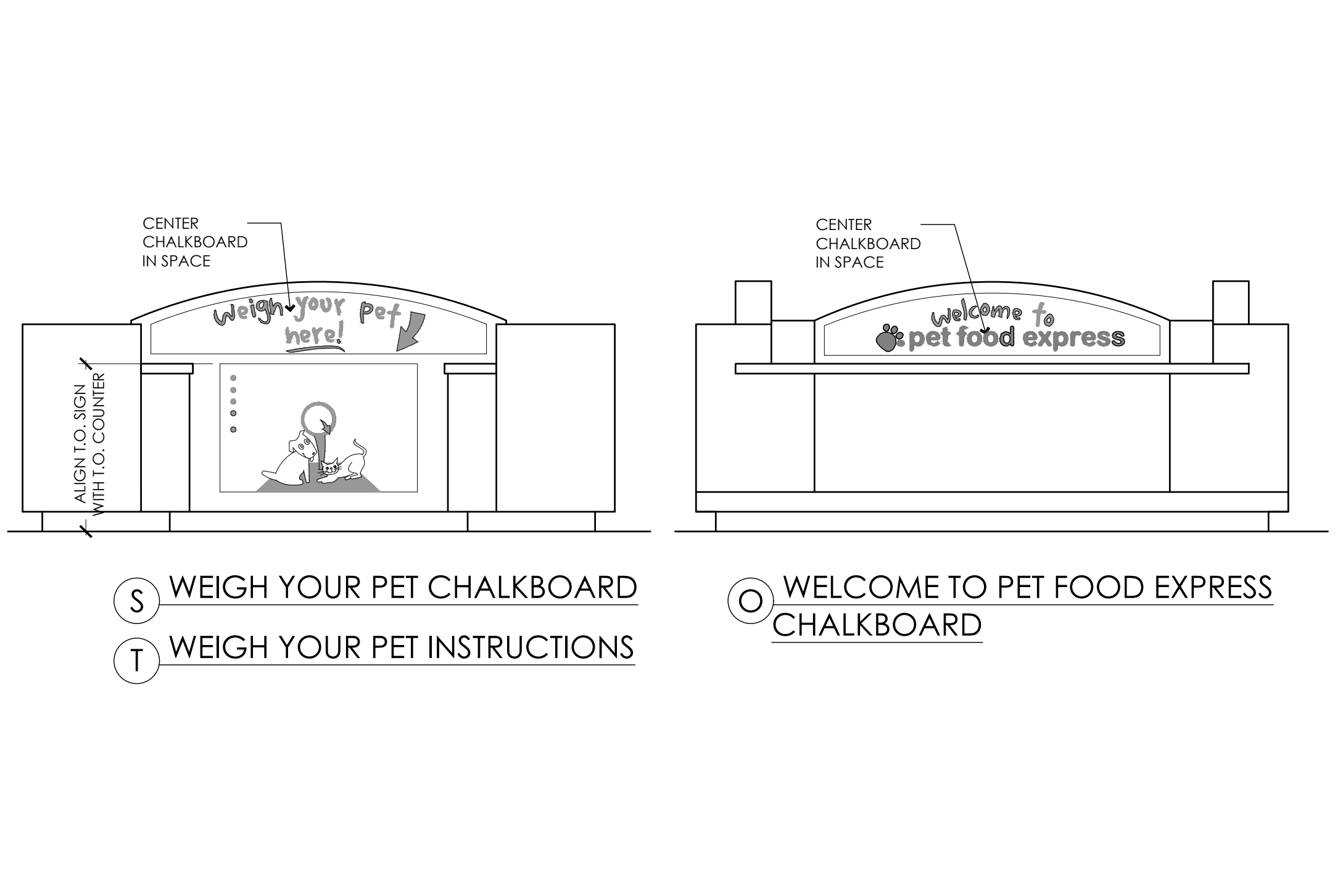
**CASHWRAP MOUNTED SIGNAGE** SCALE: 1/2" = 1'-0" **1**



**PETWASH SIGNAGE** SCALE: 3" = 1'-0" **10**



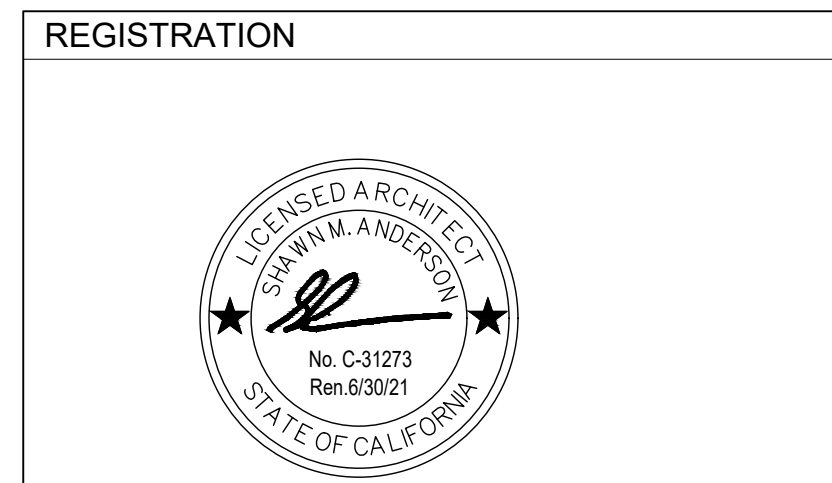
**PETWASH SIGNAGE** SCALE: 1/2" = 1'-0" **6**



**CASHWRAP MOUNTED SIGNAGE** SCALE: 1/2" = 1'-0" **1**



**ARCHITECT**  
**MSA**  
 architecture + design  
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 Oakland, CA 94612  
 p 415.541.0977  
 www.msaf.com



**REGISTRATION**

**CONSULTANT**

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ISSUE / REVISION		
NO.	DATE	REVISION NAME
	4.19.19	ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

**PROJECT LOCATION**  
 1 PET FOOD EXPRESS  
 4710 Freeport Blvd, Suite 12K-A  
 Sacramento, CA 95822

**DRAWING TITLE**  
 MERCHANDISING SIGN  
 DETAILS  
 SCALE: AS NOTED  
 PROJECT NUMBER: 18404  
 SHEET NUMBER:  
**A9.2**



CLIENT

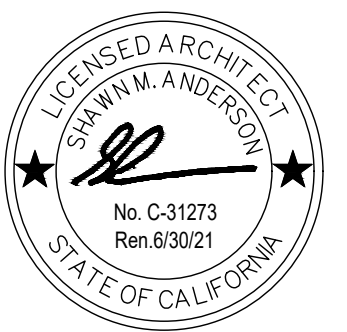


ARCHITECT



360 22nd Street, Suite 800  
Oakland, CA 94612  
p 415.541.0977  
www.msaf.com

REGISTRATION



CONSULTANT

UNAUTHORIZED CHANGES

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ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

PROJECT LOCATION

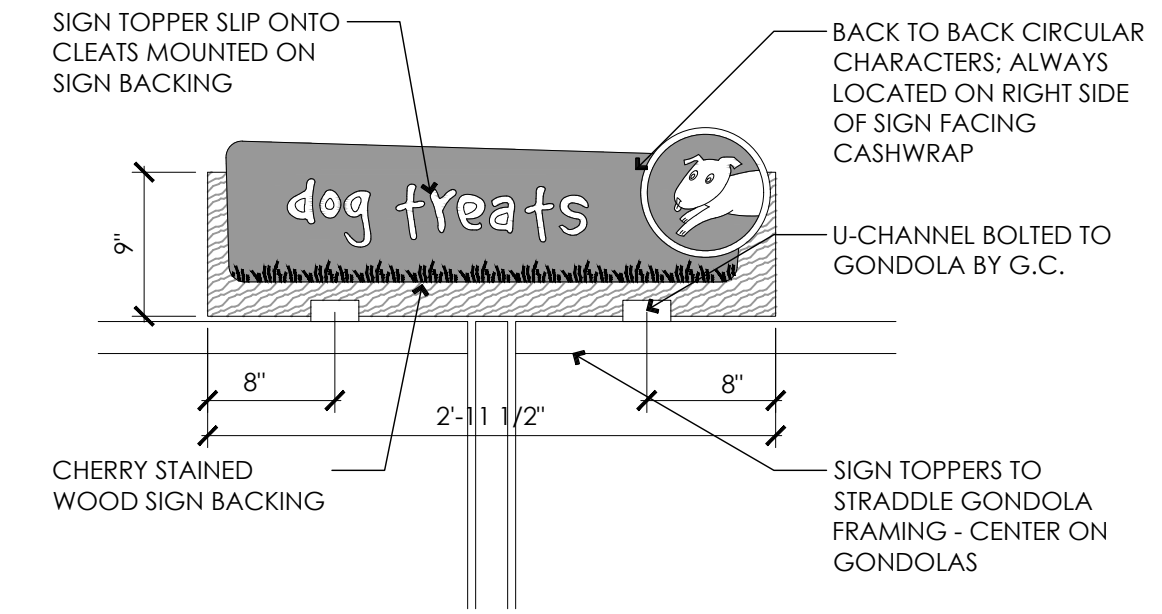
1 PET FOOD EXPRESS  
4710 Freepoint Blvd, Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

MERCHANDISING SIGN  
DETAILS

SCALE: AS NOTED  
PROJECT NUMBER: 18404  
SHEET NUMBER:

A9.3



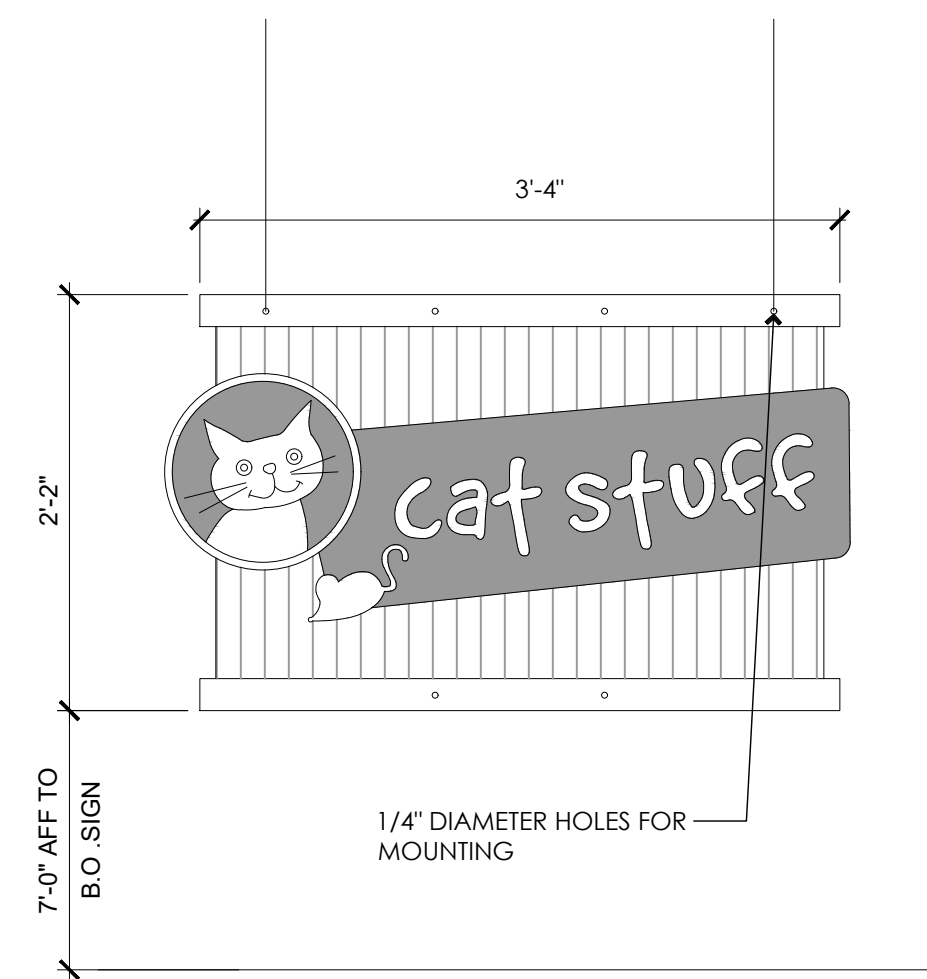
NOTE: STAGGER LOCATIONS IN LONG GONDOLA RUNS, SEE PLAN

F GONDOLA TOPPERS

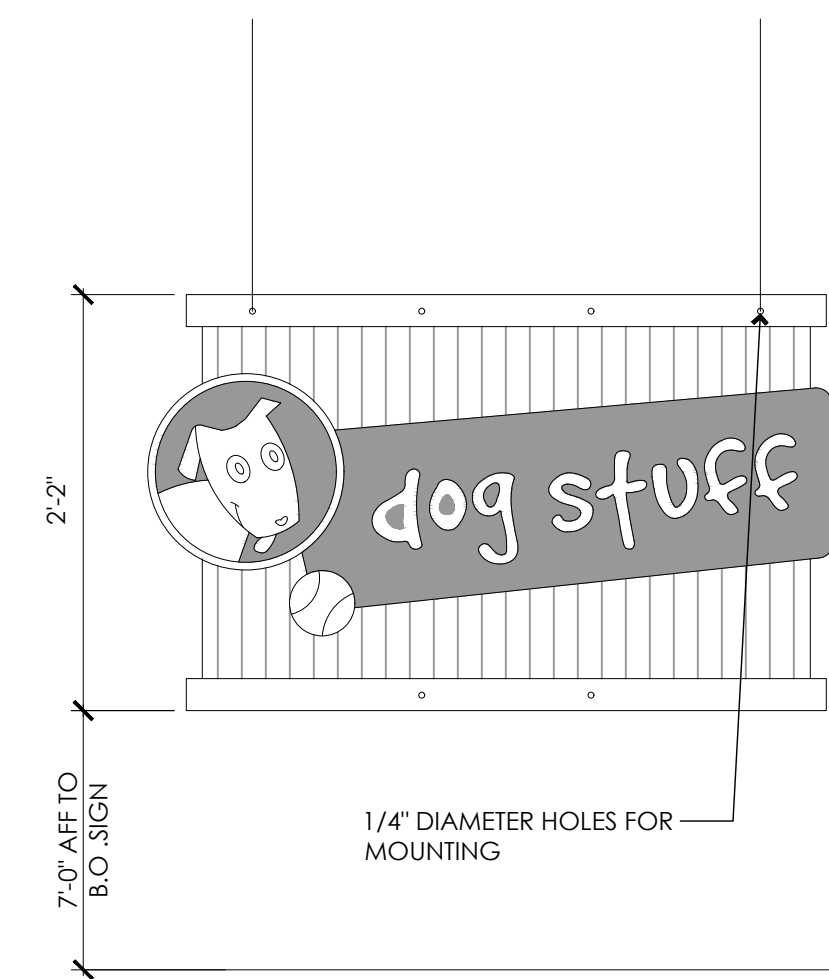
GONDOLA TOPPER SIGN

SCALE: 1" = 1'-0"

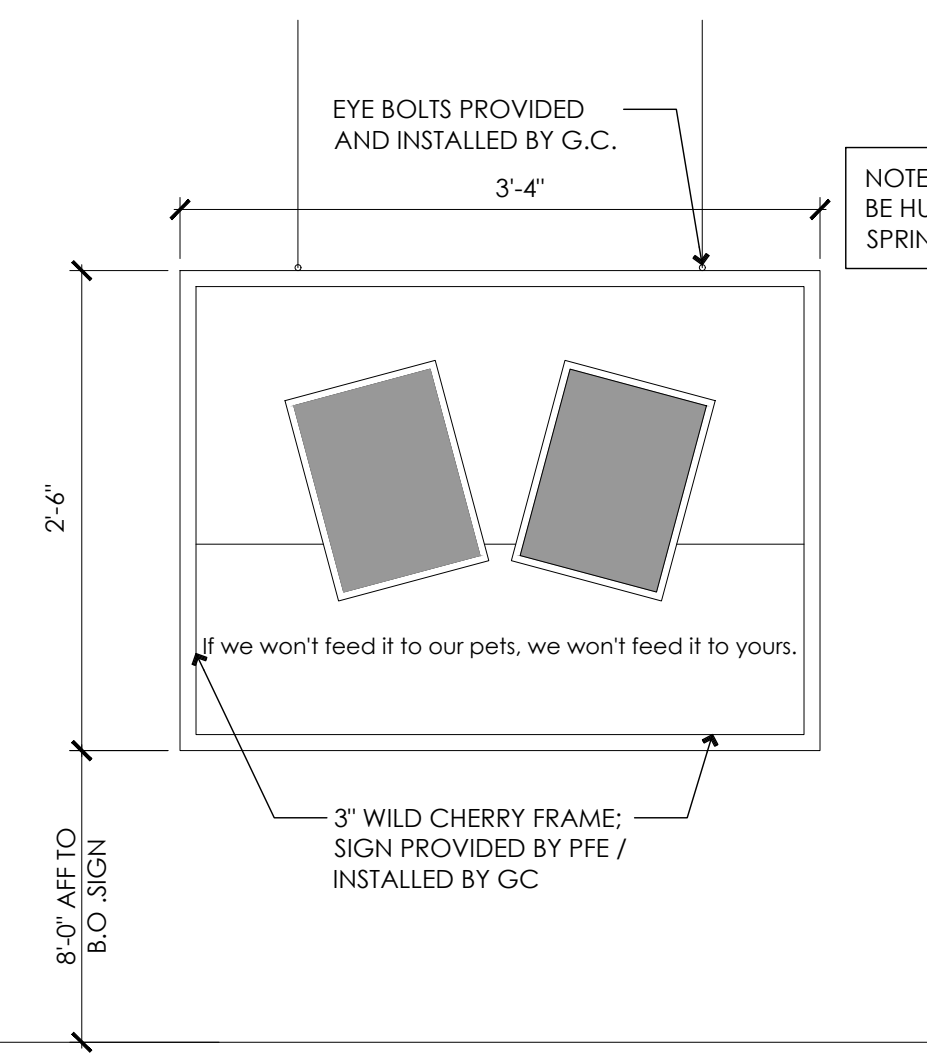
3



E CAT STUFF HANGING SIGN



D DOG STUFF HANGING SIGN



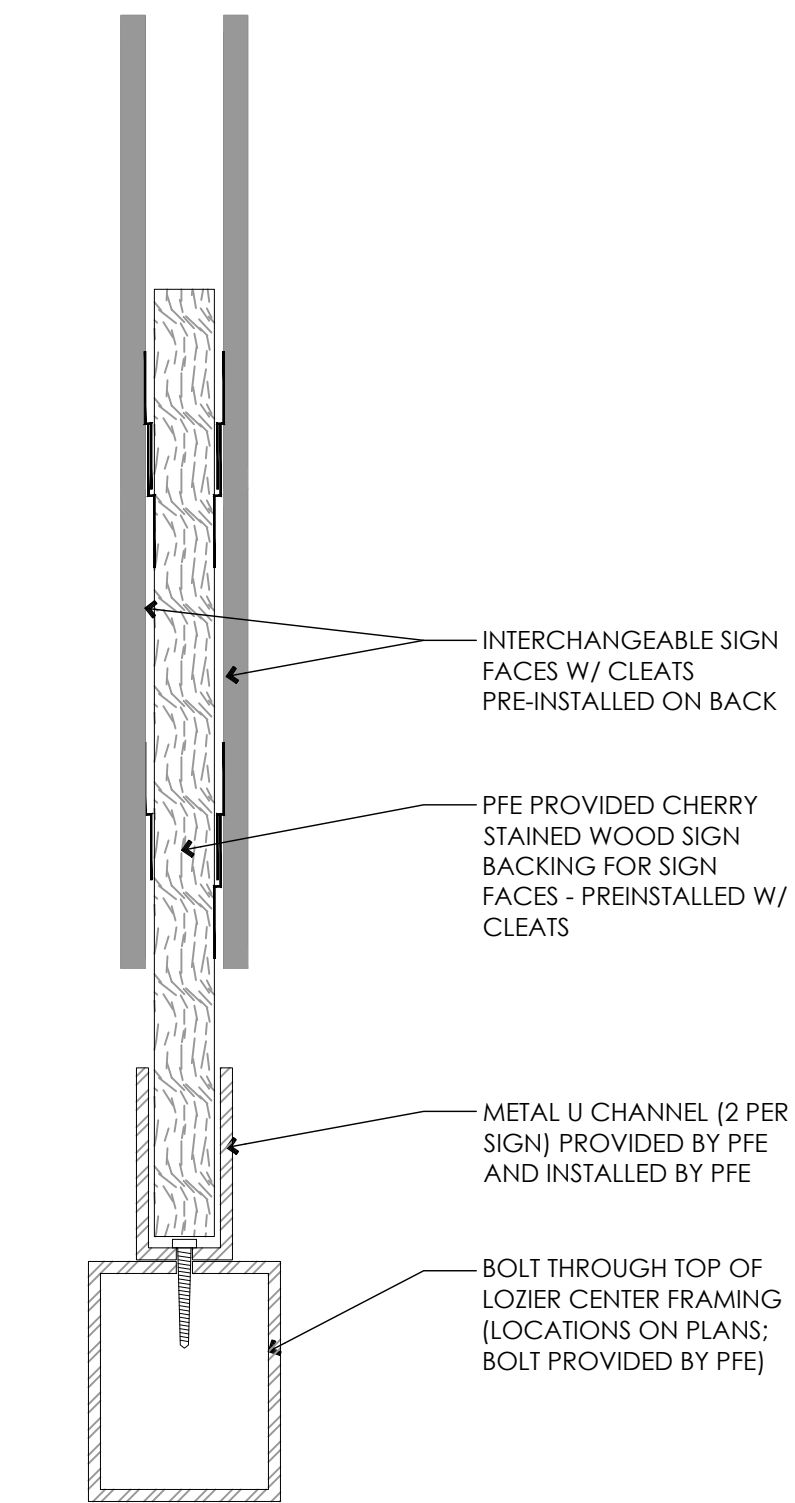
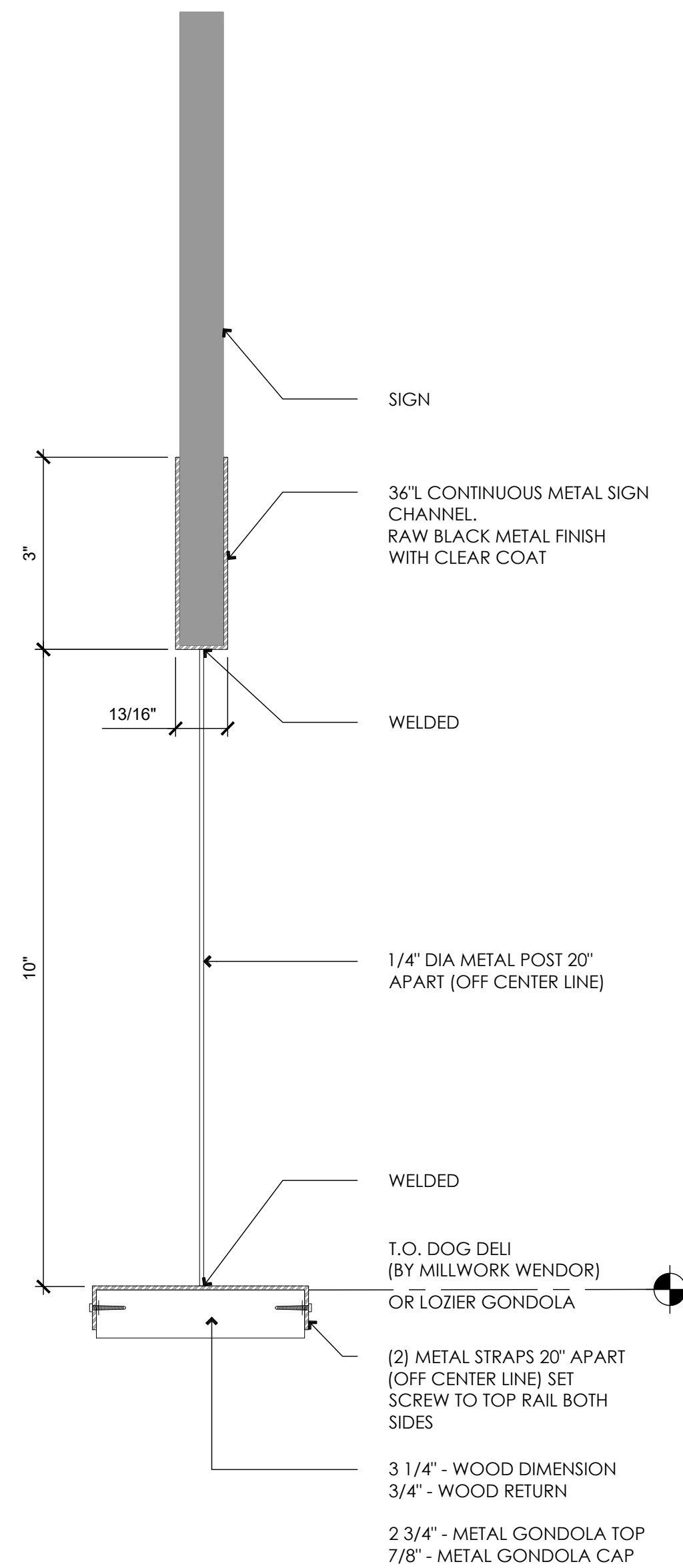
C ABOUT US M&M SIGN

B NOT USED

CEILING HUNG SIGNAGE

SCALE: 1" = 1'-0"

1



F GONDOLA TOPPER SECTION (TYP. OF ALL SIGNS)

DOG DELI SIGN HOLDER

SCALE: 6" = 1'-0"

4

GONDOLA TOPPER SIGN

SCALE: 1" = 1'-0"

3

SCALE:

SCALE:

SCALE:

SCALE:

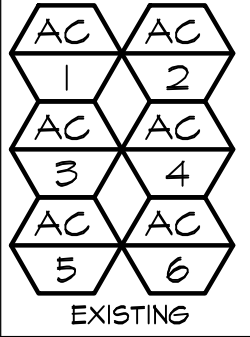
SCALE:



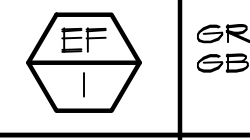

## GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MFR. / MODEL	BORDER TYPE	REMARKS
DSR	TITUS 300RS	1	WITH OBD
WSR	TITUS 300RS	1	WITH OBD
WEG	TITUS 350RL	1	WITH OBD
WRG	TITUS 350RL	1	WITH OBD
6"φ CD3C	TITUS PCS WITH 6"φ NECK ADAPTOR AND 12X12 FACE	3	3-WAY WITH TRM PLASTER FRAME
10"φ CD4TF	ACCUTHERM ST-HC THERMAFUSER	SURFACE	4-WAY
24X24 CEST	TITUS 50F-AA	3	
24X24 CRG	TITUS 50F-AA	1	WITH TRM PLASTER FRAME
12X12 CEG	TITUS 50F-AA	1	WITH TRM PLASTER FRAME

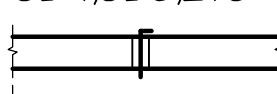
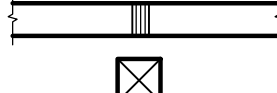
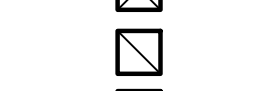
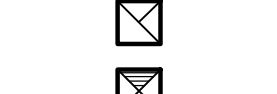


## MECHANICAL EQUIPMENT SCHEDULE

MARK	DESCRIPTION
 EXISTING	EXISTING TRANE 060E9YZC, 5 TON PACKAGED DOWNSHOT GAS/ ELECTRIC ROOFTOP AC UNIT, 40.2 MBH SENSIBLE, 51.2 MBH TOTAL COOLING CAPACITIES @ 62.8°F EWB, 75.3°F EDB, 91°F AMBIENT AND 2000 CFM @ 6" ESP, 60 MBH INPUT, 49 MBH OUTPUT HEATING CAPACITY. PROVIDE UNIT WITH PROGRAMMABLE THERMOSTAT WITH REMOTE SENSOR, AND CO2 SENSOR FOR DEMAND VENTILATION, .17.0 EER, 81% AFUE, 28.0 MCA, 40 MOCP, 208V/3φ.

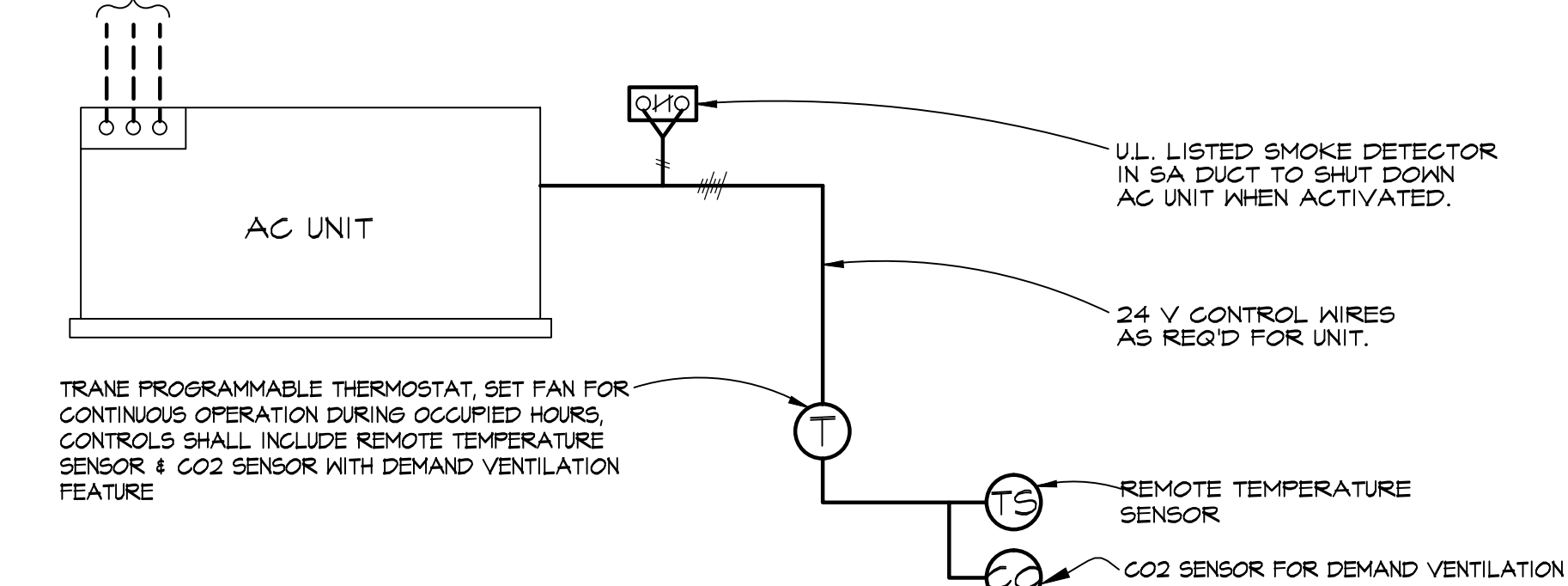
## EXHAUST/ SUPPLY FAN SCHEDULE

MARK	MODEL	CFM	"SP	ELECTRICAL			REMARKS
				HP	VOLTS	PH	
	GREENHECK GB-071	100	-3/5	1/8	120	1φ	WITH FACTORY CURB AND BACKDRAFT DAMPER CONTROLLED BY TIMELOCK
	GREENHECK GB-141	1700	-.5	3/4	120	1φ	WITH FACTORY CURB AND BACKDRAFT DAMPER CONTROLLED BY TIMELOCK

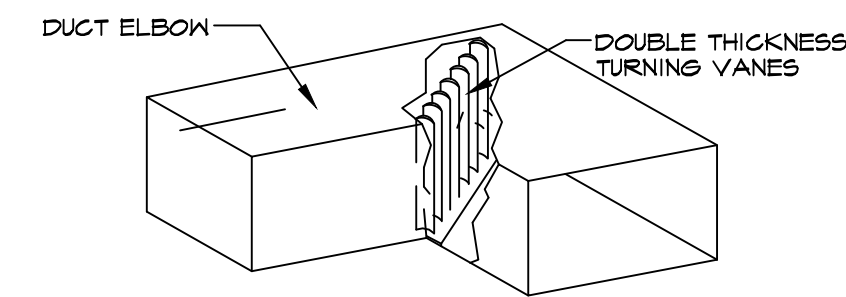
## MECHANICAL SYMBOLS

MARK	DESCRIPTION
(E)	EXISTING
(N)	NEW
(AC)	ABOVE CEILING
UTR	UP THRU ROOF W/ CAP & FLASHING
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
OA	OUTSIDE AIR
BDD	BACKDRAFT DAMPER
LD	LINEAR DIFFUSER
(AL)	ACOUSTICALLY LINED PLENUM OR DUCT SECTION
(T)	WALL THERMOSTAT, UP 4'-6"
(SD)	DUCT MOUNTED SMOKE DETECTOR (SEE ELEC.)
(PS)	REMOTE PULL STATION FOR ANSUL SYSTEM
UTR	UP THROUGH ROOF WITH CAP AND FLASHING
SEG	SMOKE EXHAUST GRILLE
SE	SMOKE EXHAUST
STG	SMOKE TRANSFER GRILLE
CTG	CEILING TRANSFER GRILLE
(CTE)	CONNECT TO EXISTING
CEG	CEILING EXHAUST GRILLE
CRG	CEILING RETURN GRILLE
CD4,CD3,ETC	CEILING DIFFUSER; 4 WAY, 3 WAY, ETC.
	VOLUME DAMPER (VD)
	FLEXIBLE DUCT CONNECTION (FC)
	SECTION THRU SUPPLY AIR DUCT
	SECTION THRU RETURN AIR DUCT
	SECTION THRU EXHAUST OR OUTSIDE AIR DUCT
	CROSS HATCHING OF DUCT SECTION INDICATES PENETRATION OF DUCT UP THRU ROOF OR NEXT FLOOR.

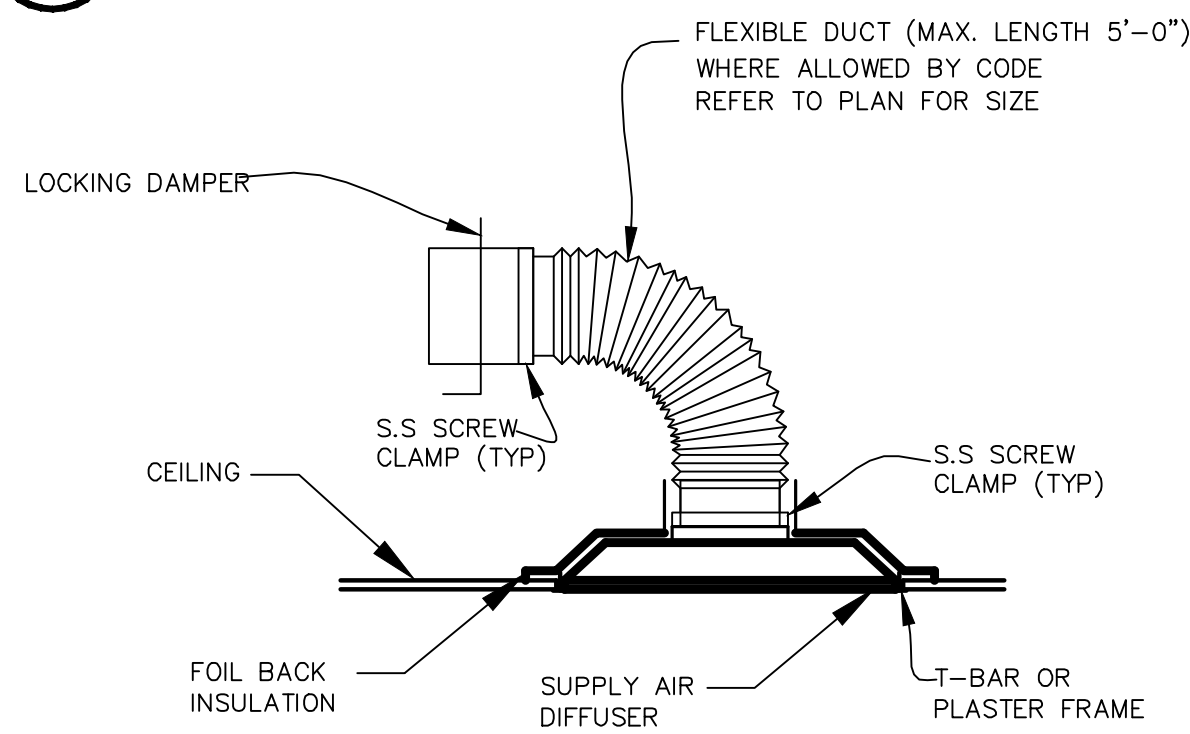
SEE MECHANICAL SCHEDULE FOR VOLTAGE & PHASE



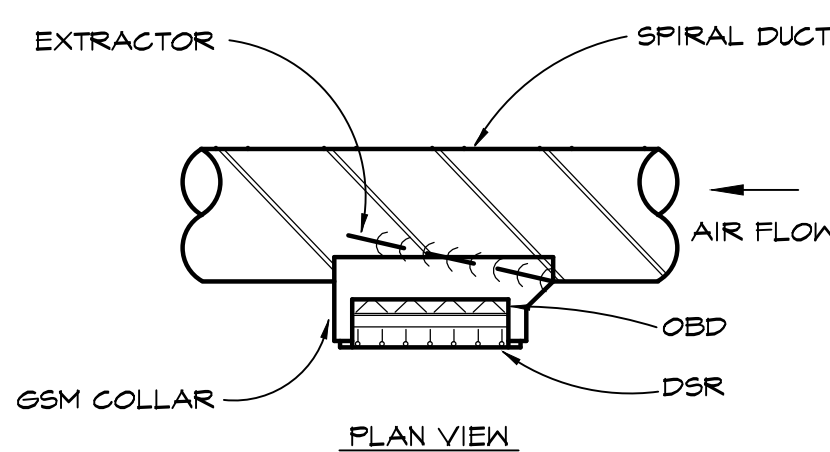
1 AC UNITS CONTROLS  
Scale: NO SCALE



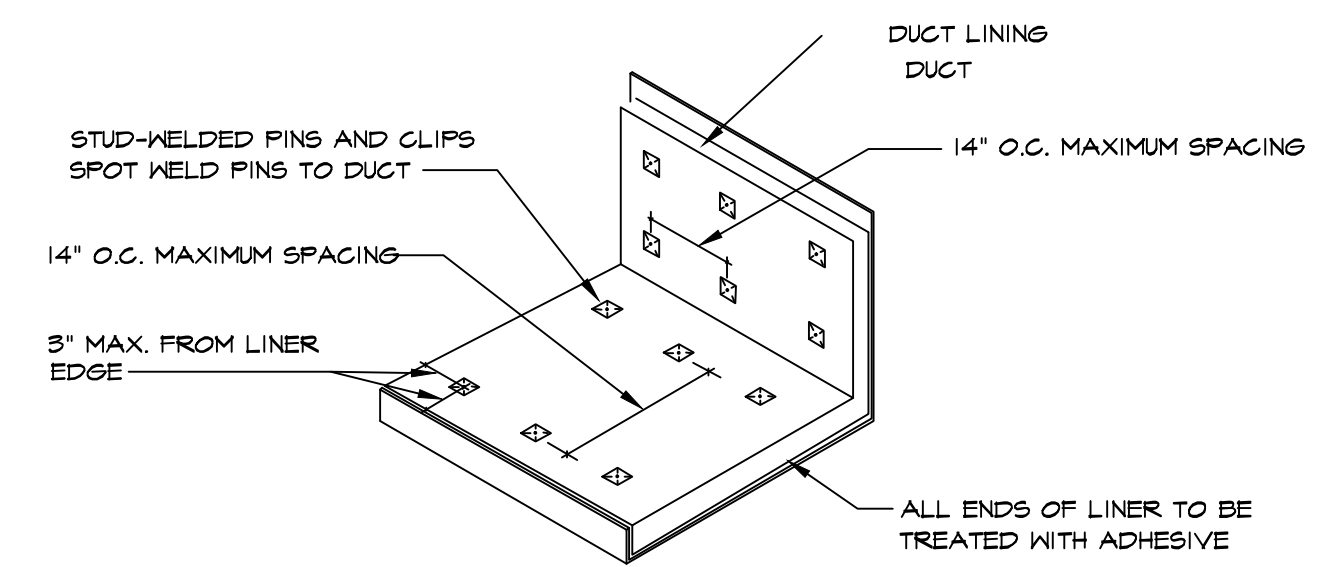
4 MITERED ELBOW DETAIL  
Scale: NO SCALE



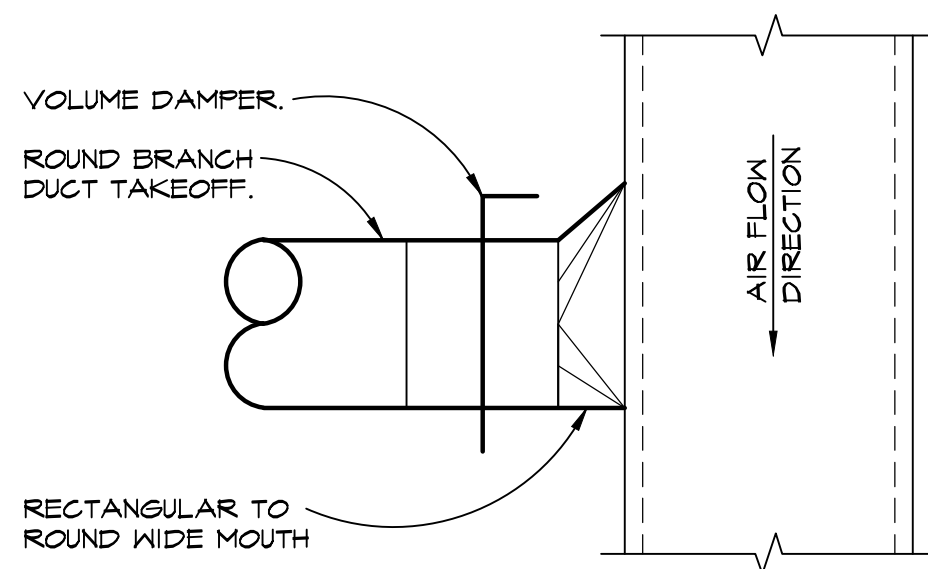
2 DIFFUSER CONNECTION DETAIL  
Scale: NO SCALE



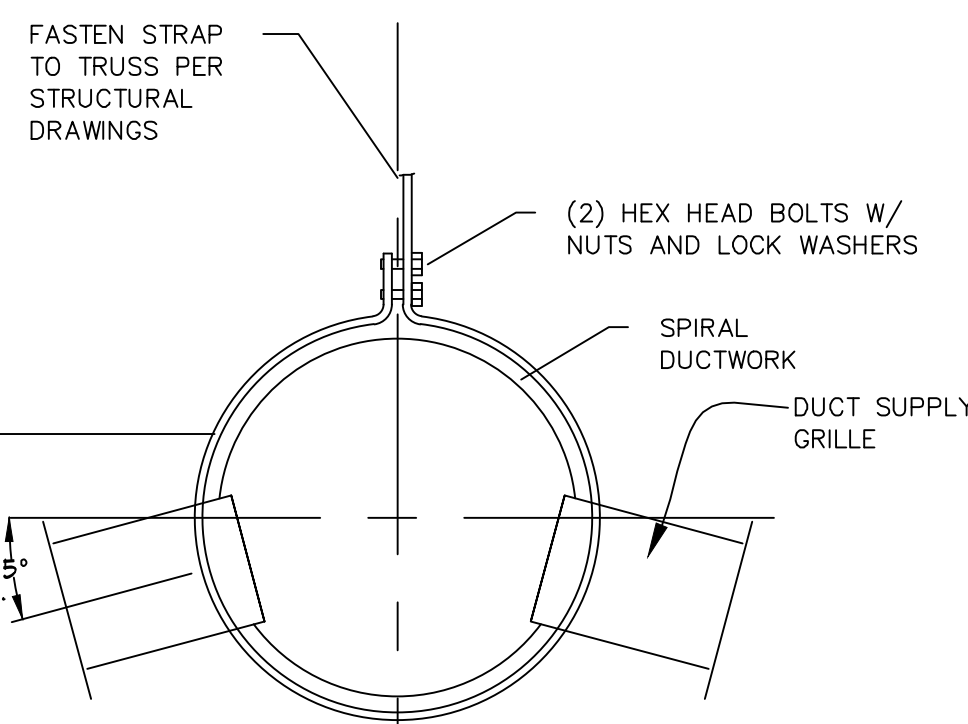
5 DUCT SUPPLY REGISTER  
Scale: NO SCALE



7 ACOUSTICAL DUCT LINER DETAIL  
Scale: NO SCALE



3 BRANCH DUCT TAKE OFF  
Scale: NO SCALE



6 DUCT MOUNT DIFFUSER  
Scale: NO SCALE

CLIENT



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f 510.924.3290

ARCHITECT



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www.msasf.com

REGISTRATION



CONSULTANT

ELMENDORF  
&  
ASSOCIATES  
MECHANICAL  
ENGINEERS

517 PINE STREET  
SAUSALITO, CA 94965  
415-332-8388

UNAUTHORIZED CHANGES

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ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	PERMIT SET
▲	6.10.19	CITY PLAN CHECK COMMENTS
	9.13.19	BID

PROJECT LOCATION

PET FOOD EXPRESS  
4700 Freeport Blvd Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

MECHANICAL  
SCHEDULES AND  
DETAILS

SCALE: NTS

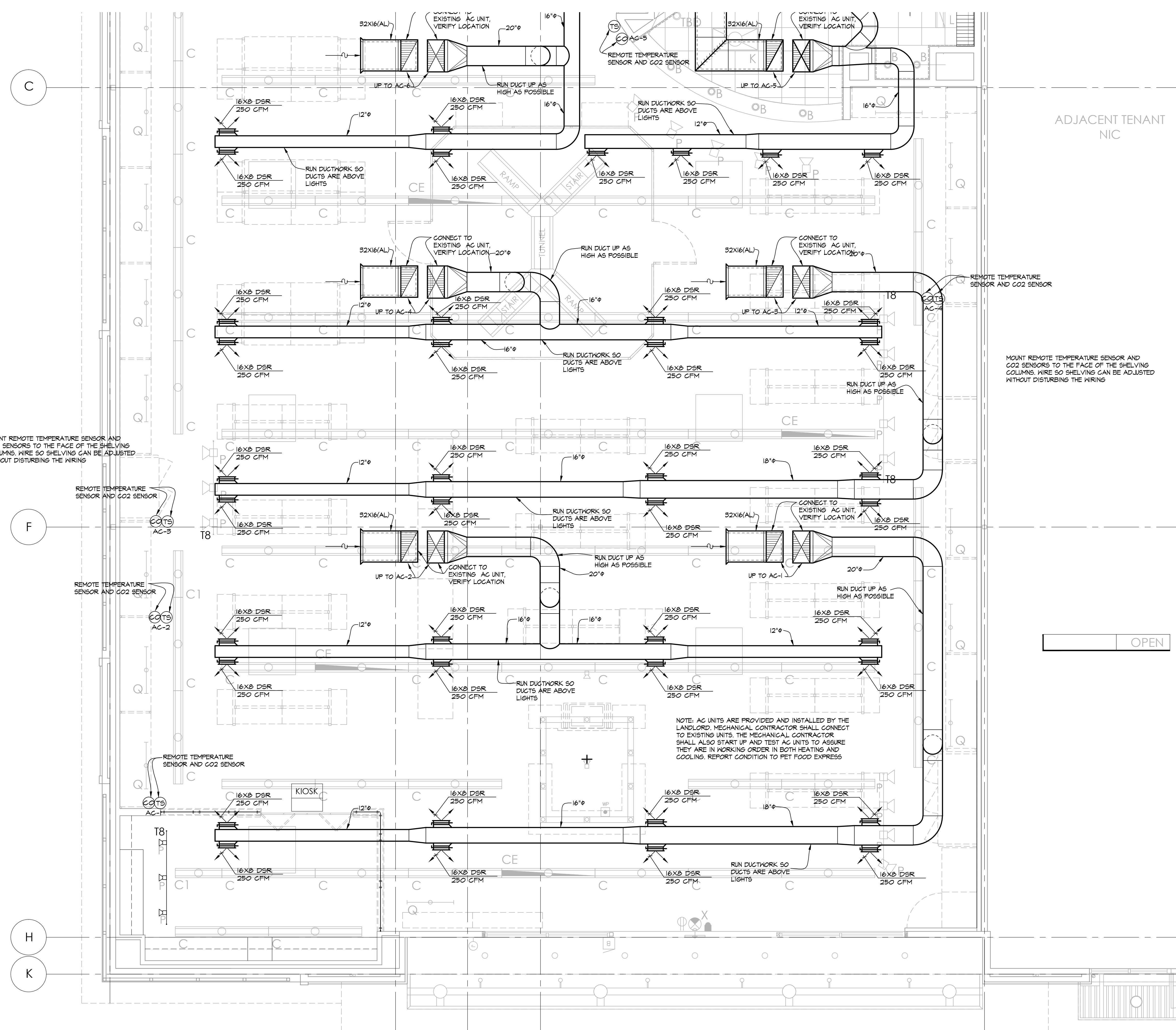
PROJECT NUMBER:

1904

SHEET NUMBER:

M1.1





MOUNT REMOTE TEMPERATURE SENSOR AND CO2 SENSORS TO THE FACE OF THE SHELVING COLUMNS. WIRE SO SHELVING CAN BE ADJUSTED WITHOUT DISTURBING THE WIRING

REMOTE TEMPERATURE SENSOR AND CO2 SENSOR

REMOTE TEMPERATURE SENSOR AND CO2 SENSOR

REMOTE TEMPERATURE SENSOR AND CO2 SENSOR

MOUNT REMOTE TEMPERATURE SENSOR AND CO2 SENSORS TO THE FACE OF THE SHELVING COLUMNS. WIRE SO SHELVING CAN BE ADJUSTED WITHOUT DISTURBING THE WIRING

NOTE: AC UNITS ARE PROVIDED AND INSTALLED BY THE LANDLORD. MECHANICAL CONTRACTOR SHALL CONNECT TO EXISTING UNITS. THE MECHANICAL CONTRACTOR SHALL ALSO START UP AND TEST AC UNITS TO ASSURE THEY ARE IN WORKING ORDER IN BOTH HEATING AND COOLING. REPORT CONDITION TO PET FOOD EXPRESS

**MECHANICAL PLAN**  
SCALE: 1/4"=1'-0"

CLIENT



500 85th Avenue  
Oakland, CA 94621  
p 510.924.3300  
f 510.924.3290

ARCHITECT



360 22nd Street, Suite 800  
Oakland, CA 94612  
p 415.541.0977  
www.msaf.com

REGISTRATION



CONSULTANT

**ELMENDORF & ASSOCIATES**  
MECHANICAL ENGINEERS

517 PINE STREET  
SAUSALITO, CA 94965  
415-332-8388

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	9.13.19	BID

PROJECT LOCATION

**PET FOOD EXPRESS**  
4700 Freepoint Blvd Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

**MECHANICAL PLAN**

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

PROJECT NUMBER:

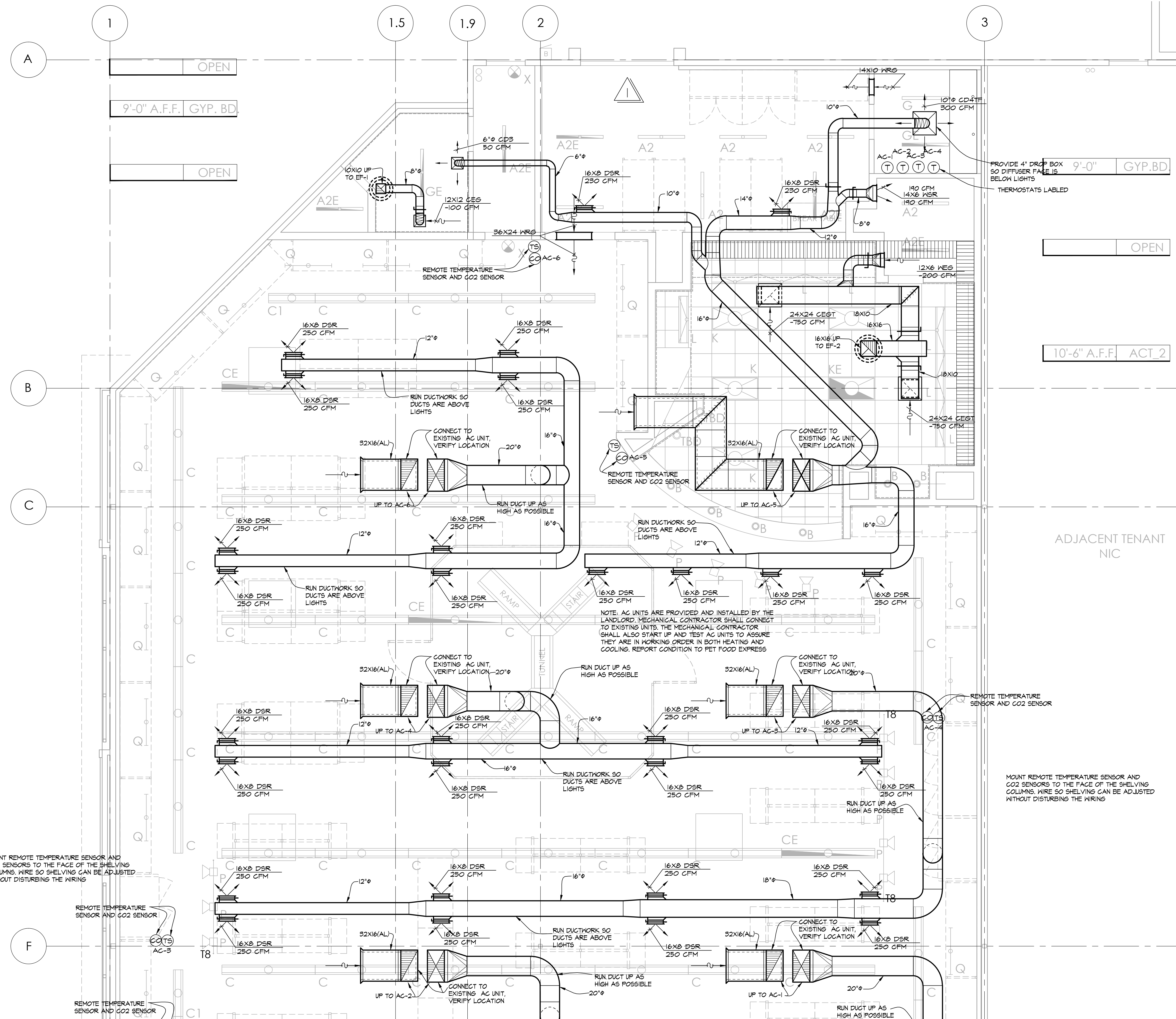
1904

SHEET NUMBER:

**M2.1**

OPFN





**MECHANICAL PLAN**  
SCALE: 1/4"=1'-0"

**CLIENT**

**pet food express**

500 85th Avenue  
Oakland, CA 94621  
p 510.924.3300  
f 510.924.3290

**ARCHITECT**

**MSA**  
architecture + design

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Oakland, CA 94612  
p 415.541.0977  
www.msaf.com

**REGISTRATION**

**CONSULTANT**

**ELMENDORF & ASSOCIATES**  
MECHANICAL ENGINEERS

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SAUSALITO, CA 94965  
415-332-8388

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	9.13.19	BID

**PROJECT LOCATION**

**PET FOOD EXPRESS**  
4700 Freepoint Blvd Suite 12K-A  
Sacramento, CA 95822

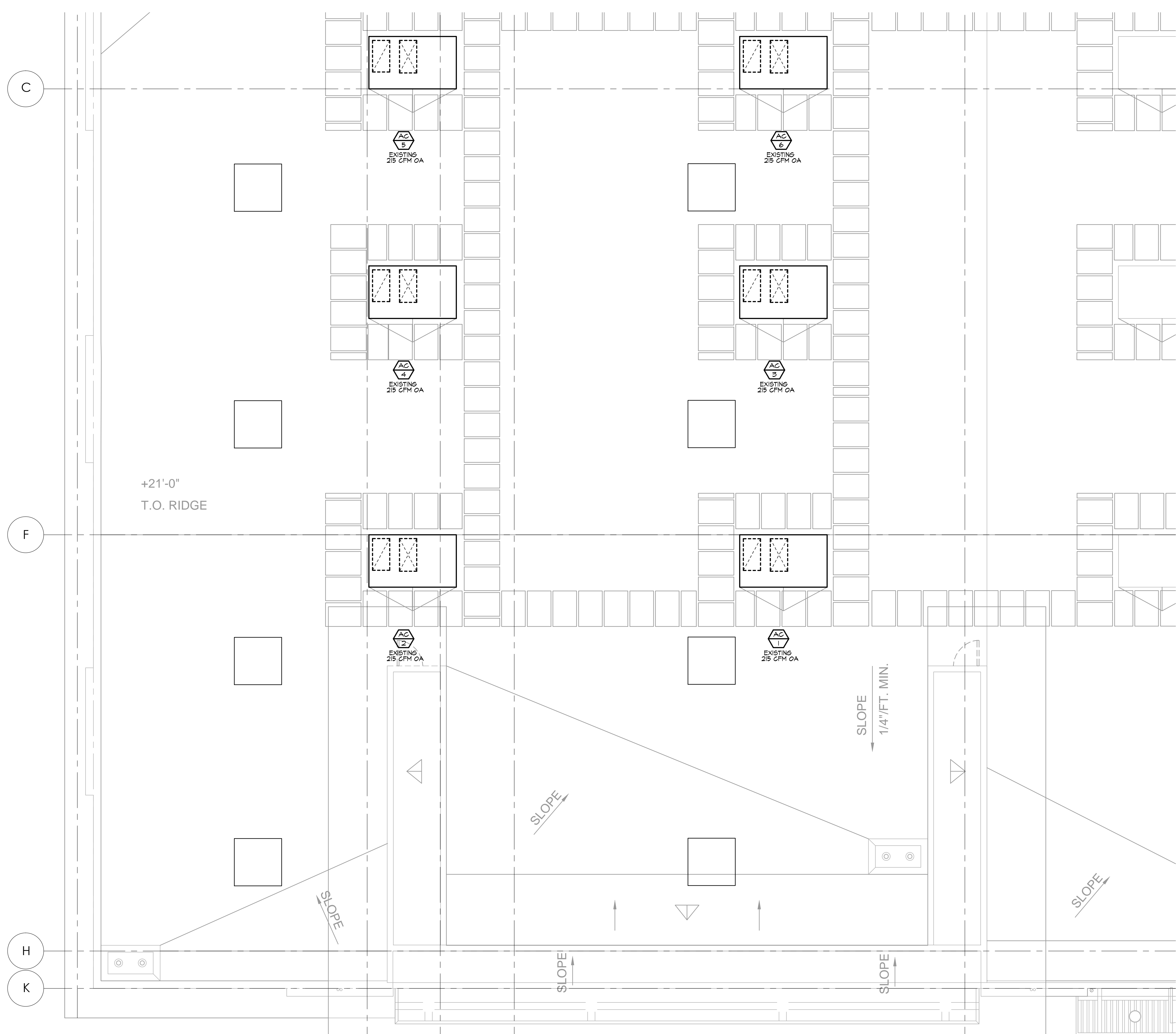
**DRAWING TITLE**

**MECHANICAL PLAN**

SCALE: 1/4"=1'-0"  
PROJECT NUMBER: 1904  
SHEET NUMBER:

**M2.2**





**MECHANICAL PLAN**  
SCALE: 1/4"=1'-0"

CLIENT

**pet food express**  
500 85th Avenue  
Oakland, CA 94621  
p 510.924.3300  
f 510.924.3290

ARCHITECT

**MSA**  
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360 22nd Street, Suite 800  
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REGISTRATION



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PROJECT LOCATION

**PET FOOD EXPRESS**  
4700 Freeport Blvd Suite 12K-A  
Sacramento, CA 95822

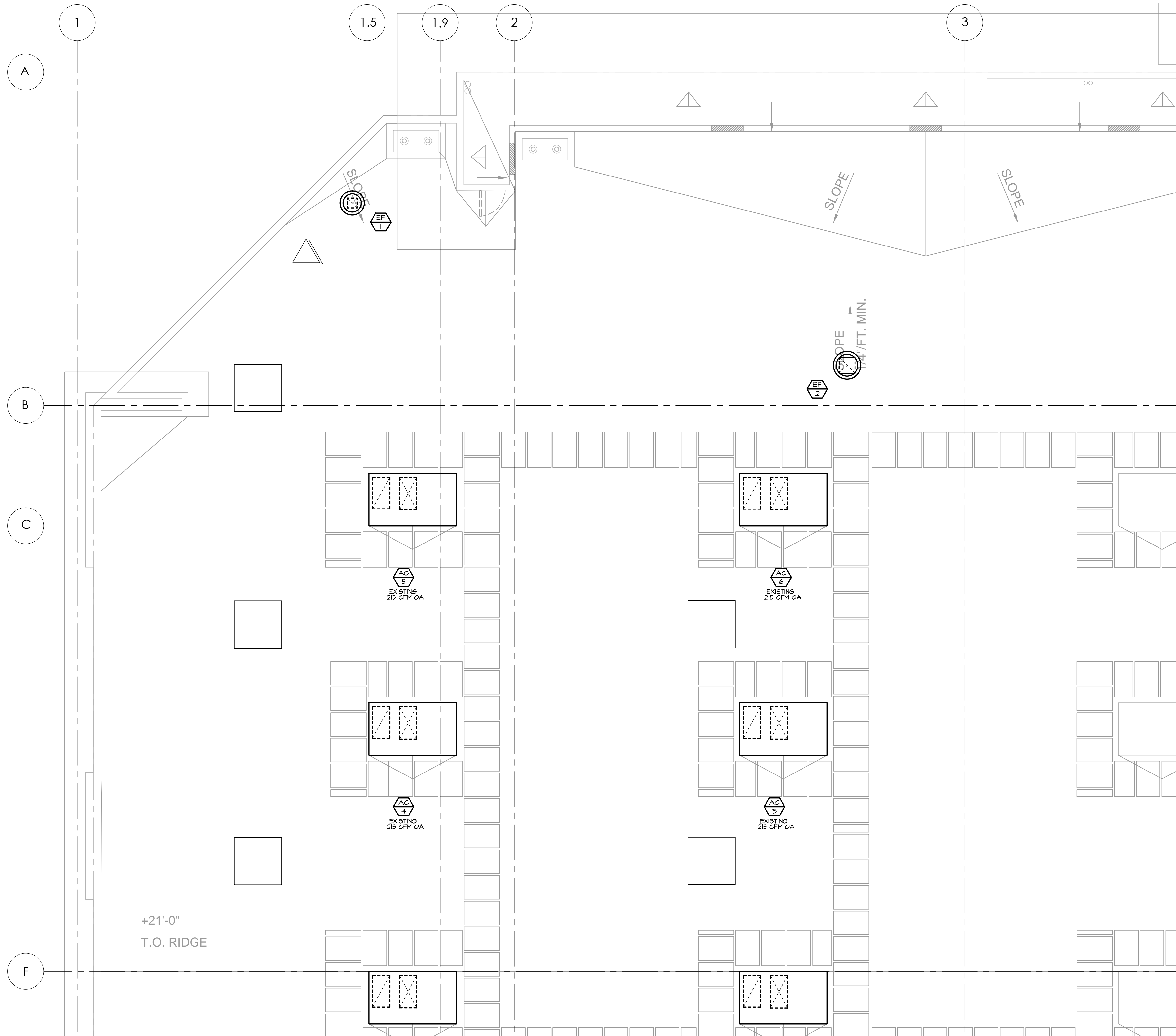
DRAWING TITLE

**MECHANICAL PLAN**

SCALE: 1/4"=1'-0"  
PROJECT NUMBER: 1904  
SHEET NUMBER:

**M2.3**





**MECHANICAL ROOF PLAN**  
SCALE: 1/4"=1'-0"

**CLIENT**



500 85th Avenue  
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f 510.924.3290

**ARCHITECT**



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**REGISTRATION**



**CONSULTANT**

**ELMENDORF & ASSOCIATES**  
MECHANICAL ENGINEERS  
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SAUSALITO, CA 94965  
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TO THE EXTENT CLIENT ENTERS ANY CONTRACTS FOR CONSTRUCTION, SUPPLY, ARCHITECTURAL, ENGINEERING OR OTHER DESIGN SERVICES, SAID CONTRACTS SHALL SPECIFICALLY PROHIBIT THE OTHER PARTY FROM MAKING ANY CHANGE OR MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN CONSENT OF PROJECT ARCHITECT AND WHICH FURTHER RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

**ISSUE / REVISION**

NO.	DATE	REVISION NAME
	4.19.19	PERMIT SET
▲	6.10.19	CITY PLAN CHECK COMMENTS
	9.13.19	BID

**PROJECT LOCATION**

**PET FOOD EXPRESS**  
4700 Freeport Blvd Suite 12K-A  
Sacramento, CA 95822

**DRAWING TITLE**

**MECHANICAL ROOF PLAN**

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

PROJECT NUMBER: 1904

SHEET NUMBER:

**M2.4**



MECHANICAL SPECIFICATIONS  
SECTION 15000 - HEATING, VENTILATING AND AIR CONDITIONING

1.00 - GENERAL

1.01 SCOPE OF WORK

- Provide and install complete and operational HVAC system as indicated on the drawings and in this specification. Work shall include, but not be limited to the following:
- Heating, ventilating & air conditioning systems, including all component parts.
  - Air distribution system including grilles, registers, diffusers, ductwork and insulation of supply and return ductwork.
  - Flashing and sealing of roof penetrations for water tightness.
  - Toilet exhaust systems.
  - Licenses, permits and associated fees.
  - Hangers and support systems for air conditioning units, ductwork and piping.
  - Complete Temperature Controls, including all components necessary.

1.02 RELATED WORK INCLUDED UNDER OTHER SECTIONS

- Plumbing Section 15400
- Testing and Balancing Section 15900
- Electrical Section 16000
- Fire Protection Section 15500

1.03 EXAMINATION OF SITE

- Contractor shall visit site and verify all existing conditions prior to submitting bid to familiarize himself with all existing conditions including entrance and exit facilities, elevator limitations, hours of permitted by the building for transportation of equipment and materials. Contractor must satisfy himself as to the nature and scope of the work and difficulties that affect the execution and completion of the work. The contractor shall examine all existing structural conditions, take all necessary measurements and note existing conditions for the purpose of moving equipment into the building.
- Submission of a bid will be construed as evidence that such an examination has been made and later claims for labor, equipment or materials required, or for any difficulties encountered which could have been avoided had a proper examination been made will not be compensated for or recognized.

1.04 DRAWINGS

- The drawings are generally diagrammatic and indicate general arrangement of equipment, ducts and piping.
- The contractor shall coordinate his work with all contract drawings and drawings of other trades to verify spaces in which work will be installed. Maintain maximum headroom and space conditions at all locations.
- The contractor shall without extra charge, make reasonable modifications in the layout as needed to prevent conflict with work of other trades and structural members or for the proper execution of work.

1.05 RULES AND REGULATIONS:

- The work and materials shall conform and comply to the Uniform Plumbing and Uniform Mechanical Codes, National Energy Code, National Electrical Code, National Fire Protection Association and all applicable ordinances and codes of the authority having jurisdiction. Furnish without any extra charge, any additional material and labor when required to comply with these laws, ordinances and codes though the work be not mentioned in this division or shown on the drawings.
- Contractor shall obtain all approvals, tests, inspections and permits, and pay all necessary fees for all work pertaining to this project. All agencies having jurisdiction shall be complied with.

1.06 SHOP DRAWINGS AND MATERIAL SUBMITTALS

- Submit for review to the Architect (6 copies) a complete and all-inclusive list of all equipment and materials including automatic temperature controls, cuts of equipment, sequence of operation, and ductwork proposed for use, accompanied by manufacturer's data sheets giving sizes, capacities, etc. Data shall be forwarded in a single package written 15 days after award of contract. Contractor shall not install any equipment without Engineer's approval.
- A set of shop drawings shall be prepared by the contractor showing all equipment, ductwork, access areas, piping, and air outlets to be installed in the field, including all sizes and changes to the original design for approval prior to construction. A set of blueprints of these shop drawings shall be delivered to the Architect. These drawing shall be modified to represent "as-built" conditions upon completion of the work. A set of reproduces with three sets of blueines shall be delivered to the Architect prior to final acceptance of this project.
- The contractor shall coordinate his work with architectural drawings, final ceiling layout, lighting and work of other trades.

1.07 ELECTRICAL WORK

- The following electrical work shall be part of division 15 performed in accordance with division 16 specifications.
- Mechanical contractor shall verify the electrical characteristics required of all equipment with the electrical drawings, electrical contractor, and field conditions prior to ordering any equipment.
- All power wiring shall be by electrical contractor, mechanical contractor shall provide all controls and control and interlock wiring, wiring diagrams, relays, starters and motors for all mechanical equipment. Starters shall have low voltage protection and built-in thermal overload protection.

1.08 EQUIPMENT START UP

- Contractor shall start up and run test all supplied equipment per manufacture's start up instructions. All equipment shall be labeled with permanent labels that are a minimum of two inches in height labels shall have tenant's name and space number on them.

1.09 OPERATION MANUALS AND OWNER INSTRUCTIONS

- Contractor shall furnish operating and maintenance instruction including control all control systems at the completion of the installation. Submit three copies of bound manuals.
- At the completion of work the contractor shall in the conjunction with the Owner's representative, arrange a meeting to instruct the maintenance contractor. Contractor shall fully instruct all details of operation and maintenance for the equipment provided. Contractor shall provide equipment check list shown on these drawings.

1.10 CUTTING AND PATCHING

- The contractor shall do all cutting, drilling and patching which may be required for the installation of the work under this specification.
- Patching shall be of the same workmanship, material and finish, and shall match accurately all surrounding construction in a manner satisfactory to the Architect/ Engineer.
- No cutting of the structure shall be permitted without written approval of the Architect/ Engineer.
- Existing ducts, pipes, utilities, etc. that are damaged during the construction period, whether or not due to the contractor's negligence shall be repaired or replaced by the contractor and left in a condition satisfactory to the Engineer.
- The space around pipes, ducts, utilities, etc. penetrating rated walls, shall not exceed 1/2 inch and shall be packed solid with mineral wool or equivalent, perimeter shall be closed off by tight fitting metal escutcheons on both sides of this construction as required by applicable codes.

1.11 GUARANTEE

- The Contractor shall leave the entire installation in complete working order free from any defective material, workmanship or finish. He shall guarantee to repair or replace, without charge, defects due to faulty workmanship or material for a period of one year from the date of filing of the Notice of Completion.

2.00 PRODUCTS

2.01 DUCTWORK

- All ductwork shall be galvanized sheet steel of gauges called for in ASHRAE and SMACNA guidelines & standards. Complete installation shall comply with the latest SMACNA standards. All ductwork shall be sealed tight not to exceed 5% air leakage. Seal all ducts in accordance with class "B" 2 inch as per SMACNA standards. Materials shall be clearly stamped or marked with grades and gauges.
- a. Round sheet metal shall be United Sheet Metal spiral "Uniseal" with Uniform fittings, machine formed or approved equal.
- Flexible ductwork shall be pre-insulated low pressure type (rated to 4" W.P.) and with vapor barrier. Ducts shall meet Class I requirements of NFPA and shall be UL labeled. Flexible ducts shall be Genflex, Thermalex type M-ICE or approved equal. Flexible duct is allowed only at final connections to air distribution fixtures at lengths of 6 feet maximum above concealed ceilings only.
- Provide flexible duct connections to inlet and discharge connections to all blowers and A/C units. Omit at ceiling type Toilet Room exhaust fans.
- Provide low leakage adjustable volume damper at the end of each branch duct just upstream of the flexible duct connection to the diffuser to allow for balancing of system. Access to volume damper shall be from diffuser which shall have a plaster frame which it shall rest in. The diffuser shall be lifted and the volume damper shall be located to be easily reached from the diffuser's plaster frame opening, where shown on drawings or where required by space limitations, access panels shall be provided in ceiling for volume damper access.

2.02 DUCTWORK ACCESSORIES

- Damper Operators:
  - Ducts with external insulation: Ventlock #63T, DuraDyne, Young, or approved equal.
  - Ducts with internal insulation and/or no insulation: Ventlock #63S, DuraDyne, Young, or approved equal.
- Flexible Connections: Ventfabrics "Ventglas", DuraDyne, or approved equal, U.L. approved with metal attachment.
- Air Extractor: Titus-AG or approved equal.
- Duct turning vanes shall be in accordance with SMACNA Duct Manual for hollow double thickness turning vanes.
- Round branch take-off fittings from rectangular ducts fittings shall be 45° rectangular wide mouth tees.
- Support ductwork according to the SMACNA Duct Manual and the drawings.
- Duct Access Doors: Ventfabrics, Ventlock, or approved equal, insulated access doors. Provide with all hardware and sealant. Access doors at fire dampers shall be Ruskin Manufacturing Co. approved type only.
- "Ductmate" connections may be used whenever possible. Ductwork having other type of joints shall be sealed with duct sealant of a non-hardening type mastic or liquid elastic sealant, such as "Dura Dyne" type S-2 or approved equal.
- Duct Hangers:
  - Band Hangers: same material as ducts.
  - Rod-Type Hangers: Mild low carbon steel, fully threaded at each end with 2 removable nuts each end for positioning and locking rod in place. Must be galvanized.
- Curved elbows shall have centerline radius equal to one and one-half times duct width in plane of turn.
- Square elbows shall have turning vanes. Miter elbows (not square) shall have turning vanes 3 inches o.c.
- Volume dampers shall be constructed to SMACNA Standards and shall be American Marming and Ventilating, Inc. series "VC" or approved equal.

2.03 AIR DEVICES

- Diffusers: Titus model as shown on plans. Provide sizes and type as shown on plans. Provide with volume dampers or extractors at diffuser as shown on plans or as required to allow for proper balancing of system. Paint entire interior flat black. Provide Thermafuser TF-HC heating/cooling diffusers in office as indicated on plans.
- Return Grilles and Exhaust Registers: Titus model 50F with TRM plaster frame as shown on plans. Provide with accessories as shown on drawings.

2.04 FIRE DAMPERS

- Fire and Smoke Dampers: Ruskin or approved equal. All fire and smoke dampers shall be UL listed and NFPA approved. Damper shall be located out of air stream, installed in accordance with their requirements and rated for use in Dynamic System.

2.05 INSULATION

- Supply Return and Make Up Air ductwork material: Owens-Corning or approved equal 1/2 inch reinforced foil faced fiberglass (vapor sealed) insulation. Install in accordance with Manufacturer's recommendations. Provide exterior duct with two coats of aerobol emulsion and wrap with fiberglass mesh.
- Flame spread Index and smoke-density ratings shall not exceed 25 and 50, respectively.
- Acoustically Lined Ductwork and Plenums:
  - Acoustically line rectangular ductwork as shown on plans and within ten feet of any fan.
  - Acoustical internal insulation shall be 1" Owens-Corning Fiberglas coated duct liner board or approved equal. Duct sizes shown on drawings are inside clear dimensions. Apply insulation with Manufacturer's approved adhesives, mastics and mechanical fasteners.
- Type I grease duct shall be wrapped with 3M FIREMASTER one hour duct, install per manufacture's installation instructions

2.06 TEMPERATURE CONTROL SYSTEM

- Provide complete control system as shown on plans and as necessary for proper control of all mechanical systems. Controls design shall be submitted for approval prior to construction.

2.08 REFRIGERANT PIPING

- Type ACR refrigerant tubing, vacuum sealed, deoxidized and dehydrated. Install "Semco Trisolator" 500 isolators at all piping attachments to building. Insulate with 1" thick Armstrong Armaflex or Rubatex Flexible rubber insulation, sealed with approved mastic. For insulation located outdoors, apply two coats aerobol emulsion and wrap with fiberglass mesh.

3.00 - INSTALLATION AND EXECUTION

3.01 INSTALLATION REQUIREMENTS

- Ductwork:
  - Install all ductwork straight and level and to provide maximum headroom.
  - Properly seam, brace, stiffen, support, and render ducts air tight. Where SMACNA plates indicate duct stiffeners or reinforcing angles, install continuous angles around all four sides.
  - Adjust ducts to suit local conditions and if necessary to accomplish this, dimensions may be changed by maintaining cross-sectional areas. All changes must be approved by the Engineer.
  - Diagonally or transversely crossbreak all panels on metal rectangular ducts over 18 inches in either direction.
  - Tapers: Pitch sides of duct in "diverting" or "converging" air flow with a maximum of 1 to 7 tapers.
  - Tape all transverse and longitudinal duct and plenum joints and field formed seams airtight.
  - Install seismic restraints and duct hangers as specified in SMACNA guidelines.
  - Duct branches shall be fitted with volume dampers where shown on drawings and where required, extraction dampers. All accessible volume controls shall have locking quadrants. All inaccessible controls (dampers, etc.) shall be provided with permanent extensions to accessible spaces.
  - Air inlets, outlets shall be properly set in place and are to have hang wires in all four corners or as required by mall or local code. Registers and grilles shall be tightly sealed.

3.02 VIBRATION ISOLATION

- Install all new AC units and exhaust fans with approved vibration isolators with seismic restraints. submit isolators to Engineer for approval. Make duct connections and arrange ductwork to minimize all transmission of vibration and/or fan noise.

3.03 TESTING AND BALANCING

- Installing Contractor shall provide a pressurization leak test on all type I ductwork prior to being wrapped. The ductwork shall be pressurized and soap tested for leaks, all leaks shall be welded water tight. The contractor shall guarantee all type I ductwork system to be free of any leaks.
- Balancing of air conditioning system will be performed by an independent test and balancing agency. The mechanical contractor shall cooperate with the selected test and balance agency in the following manner:
  - Provide sufficient time before final completion date so that test and balancing can be accomplished.
  - Provide immediate labor and tools to make corrections when required without undue delay. Install balancing dampers, belts and pulleys as required by test and balance agency.
  - The contractor shall put all heating, ventilating and air conditioning systems and equipment into full operation and shall continue the operation of same during each working day of testing and balancing. This shall include putting systems into both heating and cooling to demonstrate cooling and heating systems are in working order
  - Testing and balancing agency shall be kept informed of any major changes made to system during construction and shall be provided with complete as-built drawings.
  - Tenant must furnish Landlord's Construction Superintendent at site with two (2) copies of certified Air Balance Report. The Balance Report must be approved before Tenant will be permitted to open for business.

Section 15900 - TESTING, ADJUSTING AND BALANCING

1.00 - GENERAL

1.01 DESCRIPTION

- The system balancing contract shall be performed under a separate contract from the HVAC contract. Balancing of the systems shall be performed by an independent test and balancing agency which specializes in the balancing and testing of HVAC systems. The balancing contractor shall be a member of the Associated Air Balancing Council or approved equal organization. Document shall be certified by a Registered Testing and Balancing Engineer.

1.02 SCOPE OF WORK

- Perform systems balancing in strict accordance with the test procedures established by Associated Air Balancing Council.
- The test and balance shall be performed upon completion of the HVAC systems and after completion of the general operating test.
- Prior to starting the AC equipment, the contractor shall install a new set of filters. After testing and balancing is complete a new set of filters shall be installed as a final change before the store stocking process.
- Provide test and balance reports.

1.03 RELATED WORK SPECIFIED IN OTHER SECTIONS

- For extent of mechanical work to be performed by the mechanical contractor see specification section 15800.

1.03 SUBMITTALS

- Provide (6) six copies of a completion report to the Architect for evaluation and approval. Report shall include as a minimum, but not limited to the following design and test balance information: Submit one copy to the landlord.
- Diagram of system tested with outlets identified by numbers keyed to the test report sheets. Diagram showing location, type and unit served of all thermostats.
  - Each equipment shall be identified by equipment service number, manufacturer model number and serial number, motor H.P., motor nameplate voltage, motor RPM, actual and design static pressure, actual outlet velocity, and actual and design CFM.
  - Each air outlet shall be identified with manufacture model number, size, velocity, correction factor, actual and design CFM.
  - Each coil shall be identified by equipment service number, manufacture model number and size, number of rows, total cfm, air inlet and outlet dry bulb and wet bulb temperatures, and whether DX coil, chilled water coil, hot water coil, electric strip, etc., if water coil indicate water inlet and outlet temperatures and GPM.
  - Traverse reading of main supply, return and outside air ducts to establish air quantities.
  - Test and record temperatures from main supply during full heating and full cooling.
  - Report in writing with the balancing report any discrepancies on items not installed in accordance with HVAC drawings and specifications.
  - As part of the mechanical work the mechanical contractor will make any changes in the pulleys, belts and dampers or the addition of dampers required for the correct balance as recommended by the air balance agency, at no additional cost.

2.00 - PRODUCTS (Not Applicable)

3.00 - EXECUTION

3.01 ADDITIONAL INFORMATION

- For pet Food Express's records, test and balance contractor shall complete the following questionnaire and submit with final report:
  - Are the thermostats as specified? \_\_\_\_\_ yes, \_\_\_\_\_ no. If not indicate make and model \_\_\_\_\_.
  - Are the duct joints taped with high pressure duct sealant (United Sheet Metal's United Duct sealer) or 6 ounce canvas saturated with aerobol or hardcast type "DT" as specified? \_\_\_\_\_ yes, \_\_\_\_\_ no.
  - How are the connections between the main trunk and flexible duct made? Provide sketch.
  - Note any deviations from the mechanical drawings.
  - Balancing reports will not be considered complete until all questions noted under "additional information" are completed.

3.03 WARRANTY

- The test and balance agency shall include an extended warranty of 90 days, after completion of work, during which time the Owner, at their discretion, may request a recheck or resetting of any outlet, supply air fan, or exhaust fan as listed in test report.

END OF SECTION

CLIENT



500 85th Avenue  
Oakland, CA 94621  
p 510.924.3300  
f 510.924.3290

ARCHITECT



360 22nd Street, Suite 800  
Oakland, CA 94612  
p 415.541.0977  
www.msasf.com

REGISTRATION



CONSULTANT

ELMENDORF  
&  
ASSOCIATES  
MECHANICAL  
ENGINEERS

517 PINE STREET  
SAUSALITO, CA 94965  
415-332-8388

UNAUTHORIZED CHANGES

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PROJECT LOCATION

PET FOOD EXPRESS  
4700 Freeport Blvd Sutie 12K-A  
Sacramento, CA 95822

DRAWING TITLE

MECHANICAL  
SPECIFICATION

SCALE: NTS  
PROJECT NUMBER: 1904  
SHEET NUMBER:

M3.1



**Pet Food Express Zero Zone Refrigeration Equipment and Installation Instructions:**

**Equipment Vendor:**

**Zero Zone**  
 Bob Schultz  
 Phone: (916)983-5450  
 Cell phone (916) 792-1861  
 BNC Associates, Inc.  
[bnccasoc@comcast.net](mailto:bnccasoc@comcast.net)

**Zero Zone Traffic Coordinator**  
 Lynda Crawford  
 Direct: (262) 392-1309  
 Main: (262) 392-6400

Pet Food Express contracts directly with the equipment vendor to supply all parts of the freezers unless specifically noted. Pet Food Express uses Hybrid and Highlight Freezers. Please check construction documents for freezers specified for this project. For a complete listing of parts, please contact Zero Zone, Inc.

Receipt of delivery of reach-ins, etc., installation and coordination of installation for all items is the responsibility of the Refrigeration Installation Contractor. Any specialty permits are the responsibility of the Refrigeration Contractor. A forklift with long forks is required at delivery. Forklift is to be provided by the Refrigeration Contractor. Refrigeration Contractor is responsible for the inspection of all materials delivered and must sign shipping documents indicating any and all damages, missing items and forward the same shipping documents to the Pet Food Express Project Manager. Failure to do so will be deemed that the materials were received without damage and any future damage will be the responsibility of the Refrigeration Contractor.

**PFE Refrigeration installer should price the installation in accordance with the construction documents, manufacturer's installation instructions and these additional installation instructions.**

If site conditions differ from the construction documents, or if other issues or conflicts are discovered during installation, Pet Food Express must be notified immediately as to the actual conditions or conflicts. Site work including electrical power must be ready for product delivery by Zero Zone and installation as determined by Pet Food Express' delivery date.

**Installation work shall be for complete operating freezers.** Freezers should be up and operating 48 hours prior to Pet Food Express' merchandise delivery date. Work shall include, but is not limited to, the following:

- Freezers shall be set to maintain a running temperature of minus 10 degrees F.
- Placement of Reach-in freezers in locations as shown on the Construction Documents. Installer shall be responsible for removal of all ties and packing materials and leveling of reach-ins.
- Installation shall be in accordance with the Zero Zone Installation instructions including installation of all mechanical equipment including remote condensing units, hybrid condensing units, sound reduction kits, condensate pans and equipment, condensation lines and insulation of refrigeration lines. All piping shall be hard pipe type L copper. The refrigeration lines are to have minimum 3/4" wall insulation on suction lines. Insulation needs to be glued at all joints and wrapped with duct tape. All refrigeration piping needs to strap and supported every 8'.
- For installation of the freezers, the refrigeration Installation contractor will need to supply and install condensing level platforms, roof jacks or refrigeration tubing raceway if required.
- Installer shall be responsible for installation of one temperature alarm per box. Pet Food Express will provide a High Low Temperature Alarm for each box. Pet Food Express will provide the alarm, sensor & wire. Installation includes installing the sensor inside the freezer box, running and termination of low voltage cable from freezer location to Manager's office. Installer shall label alarms with designated freezer. Refrigeration Installer shall be responsible for

programming the alarm to Pet Food Express' requirements. It is the refrigeration installation contractor's responsibility to assure the temperature alarms are set to the proper temperature parameters at completion. Pet Food Express' Security Vendor (Vector Security) shall connect freezer alarms to store alarm system.

**Freezer Alarm Boxes are to be set to the following parameters:**

- Low Alarm setting shall be -20 degrees.
- High Alarm setting shall be +0 degrees.
- The Alarm shall be set to activate if temperature rises 10 degrees or more above or below the set temperature for more than 2 hours. ( Maximum Delay on alarm box)

- Installer MUST check factory settings to make sure the defrost cycles are set on the Carrel Controller, timeclocks, etc. to the parameters noted below. Defrost Cycles must be set to work with temperature alarms. There will be no charge for service calls to correct this.

**Freezer Timeclocks and Defrost cycles shall be set as follows:**

- 1-2 Door Freezer Units: Defrost set for 7 AM for 30 minutes or shutoff of defrost when inside of box reaches 45 Degrees.
- 3, 4 & 5 Door Freezer Units: Defrost set for 7 AM for 40 minutes or shutoff of defrost when inside of box reaches 45 Degrees.

- Freezers come with a **Thermosimple gauge preinstalled.** The Yellow "Caution" gauge should activate after the freezer has been **above 5 degrees for one hour.** Please make sure this is set correctly. More information on the Thermosimple gauge can be found at <https://www.thermosimple.com/videos>

- The Refrigeration Installation contractor is responsible for all electrical conduits, junction boxes, hookups and all electrical work associated with a complete freezer installation. This includes providing and installing all high and low voltage conduit and wire. Contact Zero Zone for all wiring requirements.

- A separate circuit for display door lighting is provided. Display case door lighting shall be connected to Pet Food Express' Energy Management/ lighting controller system. Display case lighting shall be controlled with sales floor lighting. **PFE's General Contractor and Installer's electrician** shall use site conditions to determine how to accomplish this.

- Removal of trash, refrigerant and other materials resulting from installation is the responsibility of the installer.

- Freezer installer is responsible for cleaning the inside of the box prior to start up. Shelves are to be set aside outside the freezer prior to start up for the merchandising team to set to required heights.

- The refrigeration installation contractor shall include in his bid any service calls to the store to "fine tune" any temperature issues at start up and within 2 weeks after installation. This is to assure equipment is maintaining proper temperatures after fully merchandised.

- All roof penetrations and resealing shall be coordinated with Pet Food Express' General Contractor and Project Manager. Refrigeration Installer shall be responsible for notifying PFE when roof penetration work is complete and the roof is ready for patching.

- The Refrigeration Installer shall be responsible for startup of all equipment. Startup shall be in accordance with manufacturer's startup check list.

- Where a common partition is used to join two boxes, the installer must use Butyl sealant and follow the correct sealing instructions provided by Zero Zone so no condensation or frost at this joint occurs.

- All Freezers come with condensate pans and heaters. Heaters may require a dedicated 20 amp 115v circuit with a "lock on" device. Pans and heaters must be installed and tested.

- All Hybrid freezers come with sound reduction kits that must be installed.

All installation documentation is available at [www.Zero-Zone.com](http://www.Zero-Zone.com).

**CLIENT**



500 85th Avenue  
 Oakland, CA 94621  
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 f 510.924.3290

**ARCHITECT**



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**REGISTRATION**



**CONSULTANT**

**ELMENDORF & ASSOCIATES**  
 MECHANICAL ENGINEERS

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 415-332-8388

**UNAUTHORIZED CHANGES**

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 4700 Freeport Blvd Suite 12K-A  
 Sacramento, CA 95822

**DRAWING TITLE**

**REFRIGERATION**

SCALE: NTS

PROJECT NUMBER:

1904

SHEET NUMBER:

**M3.2**

**Highlight Merchandiser® RHZC30T Hybrid™ Specs**  
 Low Temp Tall Hybrid™ Reach-Ins with 30" x 73" Doors

PHYSICAL DATA	R-404A Refrigerant				R-484A Refrigerant			
	2-Door	3-Door	4-Door	5-Door	2-Door	3-Door	4-Door	5-Door
Facings (ft.)	30.0	44.6	59.3	74.0	30.0	44.6	59.3	74.0
Packout (R-724" Shelves)	60.0	89.3	118.7	148.0	60.0	89.3	118.7	148.0
Weight (lbs.)*	891	1,141	1,451	1,791	891	1,141	1,451	1,791

REFRIGERATION	R-404A Refrigerant				R-484A Refrigerant			
	2-Door	3-Door	4-Door	5-Door	2-Door	3-Door	4-Door	5-Door
Refrigerant Charge (lbs.) <sup>1</sup>	5.1	5.9	6.5	8.0	5.1	5.9	6.5	8.0
Zero Zone Condensing Unit #	69-9679	69-9679	69-9681	69-9681	69-9629	69-9670	69-9670	69-9670
Condensing Unit Crated Weight (lbs.)	150	150	180	180	164	166	166	166

ELECTRICAL DATA <sup>2,3,4</sup>	With Condensate Evaporator System				With Condensate Evaporator System			
	2-Door	3-Door	4-Door	5-Door	2-Door	3-Door	4-Door	5-Door
MOCP (amps) <sup>5</sup>	25	25	40	40	20	35	40	40
MCA (amps) <sup>6</sup>	20.3	24.6	30.8	36.9	18.5	25.6	31.1	36.9

ENERGY DATA <sup>2</sup>	Without Condensate Evaporator System				Without Condensate Evaporator System			
	2-Door	3-Door	4-Door	5-Door	2-Door	3-Door	4-Door	5-Door
Daily Energy Use (kWh)	21.3	31.7	40.2	50.0	25.0	30.9	40.8	50.8
Rejected Heat (Btu/h) <sup>7</sup>	3,024	4,509	5,709	7,106	3,558	4,390	5,798	7,216

ELECTRICAL DATA <sup>2,3,4</sup>	Without Condensate Evaporator System				Without Condensate Evaporator System			
	2-Door	3-Door	4-Door	5-Door	2-Door	3-Door	4-Door	5-Door
MOCP (amps) <sup>5</sup>	25	25	40	40	15	35	35	35
MCA (amps) <sup>6</sup>	16.4	18.4	26.3	30.7	12.3	22.8	24.9	30.7

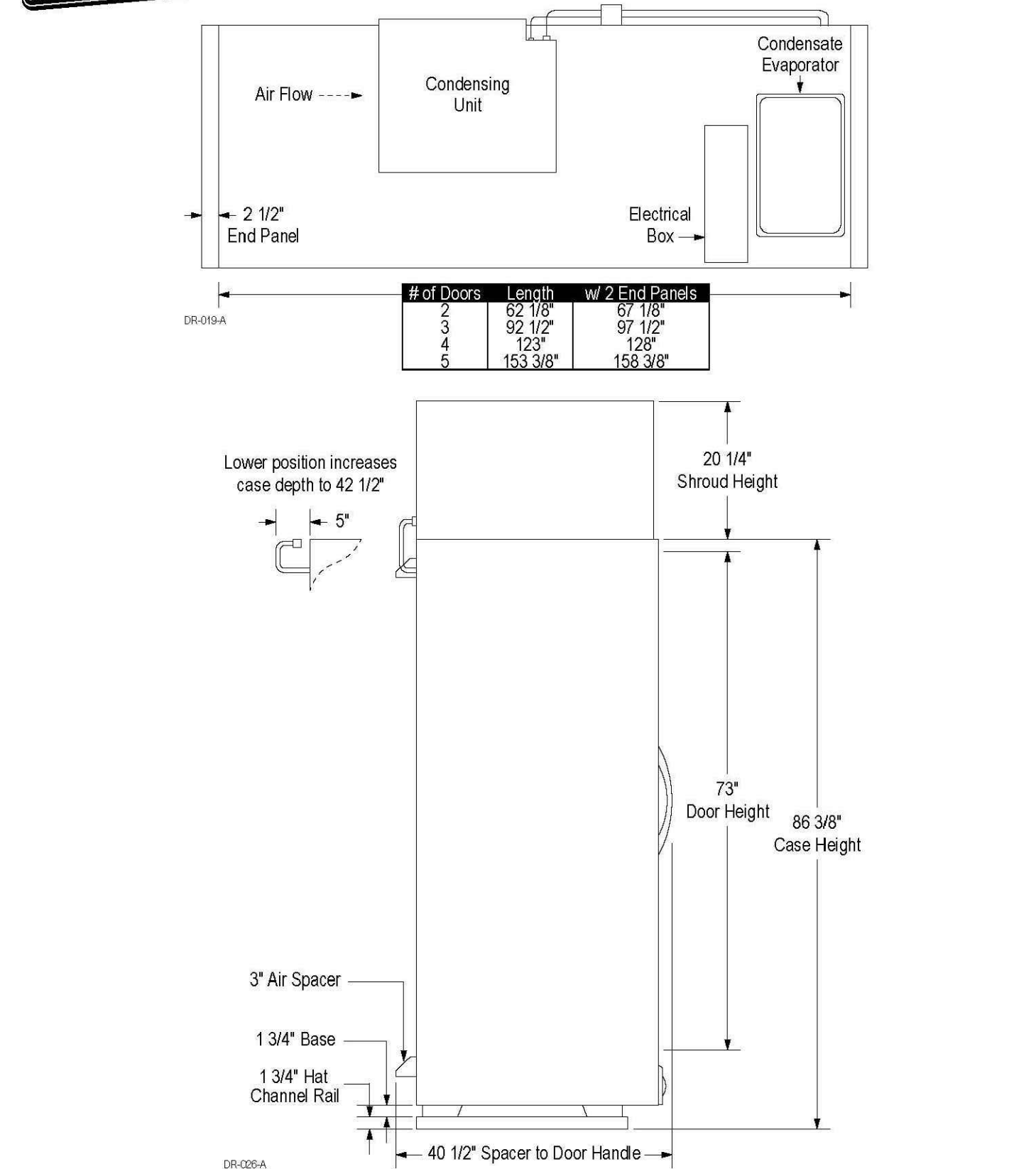
  

ENERGY DATA <sup>2</sup>	Without Condensate Evaporator System				Without Condensate Evaporator System			
	2-Door	3-Door	4-Door	5-Door	2-Door	3-Door	4-Door	5-Door
Daily Energy Use (kWh)	20.9	31.1	39.4	49.0	24.6	30.3	40.0	49.8
Rejected Heat (Btu/h) <sup>7</sup>	2,966	4,424	5,595	6,963	3,501	4,304	5,684	7,074

**Notes:**  
 1. Refrigerant charge includes combined condensing unit and case charges.  
 2. Data based on Zero Zone ChillPro™ LED lighting, Zero Zone CoolView™ Evaporator, and 3500 electronic fan motors. See separate reach in case spec sheets for additional details: RHZC30T.  
 3. 208V/4 wire service, 115/208V/1PH/3W, red & black power, white neutral, green ground. Backbox transformer available for low voltage conditions.  
 4. Optional main service disconnect is available upon request.  
 5. MOCP = Maximum overcurrent protection.  
 6. MCA = Minimum current amps.  
 7. Adequate ventilation must be provided to dissipate rejected heat from the top of the unit for proper performance. Clearance of less than 30" above the top of the shroud to the ceiling requires special design considerations. See Zero Zone Hybrid™ Installation & Operation Manual for specific details.

- Factory Installed Hybrid™ Features:**
- Refrigeration piping with quick-connect couplings and refrigerant charge.
  - Pre-wired and labeled for easy connection.
  - Electronic control includes: time clock, temperature and defrost control, and visual and audible temperature alarm. Optional network communication capability is available upon request.
- Field Installed Hybrid™ Features:**
- 20" tall aluminum shroud (front and sides standard, rear optional). Consult factory for other options.
  - Condensing unit with quick-connect threaded couplings.
  - Condensate evaporator system: collection pan, pump, float switch, condensate disposal pan with heater element, and connecting tubing.

**Highlight Merchandiser® RHZC30T Hybrid™ Specs**  
 Low Temp Tall Hybrid™ Reach-Ins with 30" x 73" Doors

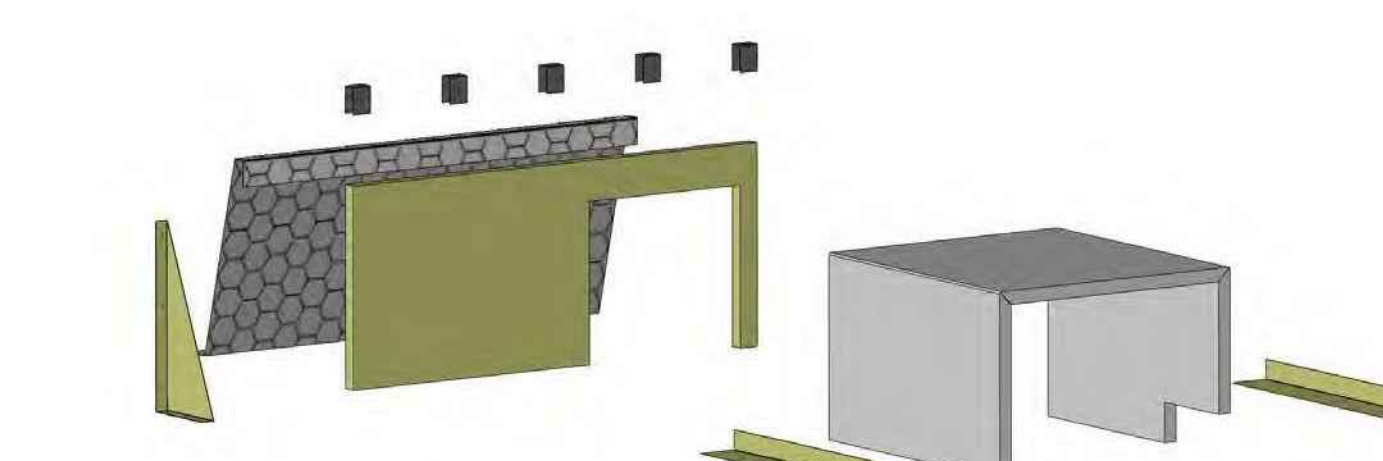


10/24/18  
 Specifications are subject to change without notice. All dimensions are nominal.  
 Case designed to operate in an ambient temperature of 75°F and relative humidity of 55% or lower.  
 Zero Zone, Inc. | 110 N Oakridge Drive | North Prairie, WI 53153-9792  
 Toll Free: 800-247-4492 | Fax: 262-392-6450  
[www.zerozone.com](http://www.zerozone.com)  
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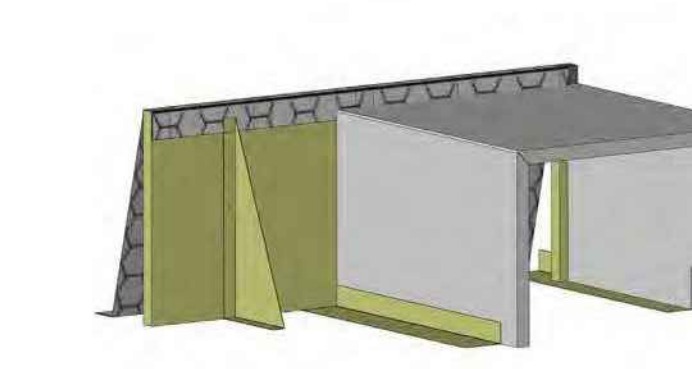
**OPTIONS**

**SOUND ATTENUATION KIT & BALLOON GUARD**

Prior to assembling and attaching the sound attenuation kit, all of the condensing unit electrical and refrigeration connections should be completed. The condensing unit must then be squared up in relationship to the case.



Sound Attenuation Kit Exploded View



Sound Attenuation Kit Assembled

**SOUND ATTENUATION KIT INSTALLATION SEQUENCE**

- Install angle brace with 2-3 #8-18 x 1/2" hex tek screws (provided).
- Install large pre-cut insulation U-box and form to shape. Orientate with corner cutout notch for refrigeration piping quick connections to rear of case.
- Position large 1-piece baffle with coil opening cut out in front of U-shaped box. Secure in place with brace.

**BALLOON GUARD INSTALLATION SEQUENCE**

- Install balloon guard metal screen at an angle using (3) Bracket U-clips and screw #10 x 3/4" tek. Guard angle might vary depending on height of insulation components.
- Secure the metal screen to the case ceiling with (3) #8-18 x 1/2" hex, tek screws.
- Make necessary adjustment to metal screen to fit properly.

For more detailed instructions, please contact Zero Zone.



**PLUMBING NOTES:**

- A. ALL WATER PIPING IN BUILDING ABOVE CEILINGS, IN WALLS, AND BELOW FLOORS SHALL BE INSULATED AS REQUIRED BY THE IECC ENERGY CONSERVATION CODE. INSULATE PIPING TO PROTECT FROM FREEZING AND PROVIDE SOUND PROOFING.
- B. CONTRACTOR TO COORDINATE WITH ALL REQUIREMENTS OF FOOD SERVICE PLANS AND PROVIDE ALL WORK SHOWN ON BOTH PLUMBING AND KITCHEN PLANS.
- C. ALL WORK TO BE IN COMPLIANCE WITH PREVAILING CODES.
- D. WATER LINES TO BE INSIDE OF WALLS, SURFACE MOUNTED WORK IS NOT ACCEPTABLE.
- E. ALL WATER LINES TO BE VALVED AT STUB-IN LOCATIONS.
- F. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL WATER HAMMER ARRESTORS IN LINE BEFORE ALL SOLENOID VALVES, I.E. AT DISHWASHER, DISPOSERS(S), ICE MAKER(S), STEAMER(S), ETC.
- G. COOKING EQUIPMENT GAS PRESSURE TO BE 7-14" W.G. FOR NATURAL GAS AND 10" W.G. FOR LP GAS.
- H. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL A GAS SOLENOID VALVE WITH INTERLOCK TO EXHAUST VENTILATOR FIRE PROTECTION SYSTEM.
- J. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL A CHECK VALVE IN CARBONATOR WATER SUPPLY LINE.
- K. PROVIDE AND INSTALL PIPE HANGERS, FOR ALL PIPING SYSTEMS, SEE DETAIL ON SHEET E20.
- L. PLUMBER SHALL MAKE ALL FINAL CONNECTIONS TO ALL THE KITCHEN AND BAR EQUIPMENT INCLUDING INSTALLATION OF SPRAYERS, FAUCETS AND DRAINS.

**INSULATION TABLE FOR WATER PIPING**

PIPE SIZE:	1" & SMALLER	1-1/4" - 6"	8" LARGER
INSULATION THICKNESS	3/4"	1"	1-1/2"

ALL INSULATION SHALL BE W/R VALUES OF 4.0 TO 4.6

**NOTES TO CONTRACTOR:**

- A. GATE VALVES SHALL NOT BE USED ON THIS JOB, ONLY BALL VALVES WILL BE APPROVED AND THEY SHALL BE "NIBCO" #5-585 FOR SWEAT SOLDER OR "NIBCO" # T-585 FOR THREADED. BOTH ARE TESTED FOR 600 PSI W/ FULL PORT DIA. WHICH WILL NOT RESTRICT FLOW.
- B. ALL PLUMBING VALVES, LINES AND EQUIPMENT SHALL BE PROPERLY LABELED.
- C. PLUMBING CONTRACTOR (PC) SHALL SUPPLY & INSTALL MIXING VALVES ON ALL HAND SINKS & LAVATORIES FOR 115 DEG. F. (MAX) HOT WATER SUPPLY.
- D. PC SHALL SUPPLY & INSTALL CHECK VALVES ON ALL BAR SINK SWING FAUCETS, SERVICE SINK & PRE-RINSE.

**GENERAL NOTES:**

1. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM ARCHITECTURAL AND KITCHEN EQUIPMENT DRAWINGS.
3. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS AND METERS.
4. ALL VENT AND FLUE OUTLETS SHALL BE 10"-0" MINIMUM FROM ANY FRESH AIR INTAKES & EXTEND TO MATCH HGT OF PARAPET.
5. INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. NO WATER OR DRAIN LINES PERMITTED OVER OR UNDER ELECTRICAL PANELS.
6. CONTRACTOR SHALL PROVIDE: FAUCETS, TRAPS, STOPS, GATE VALVES, GAS COCKS, WATER HAMMER ARRESTORS, CLEANOUT COVERS AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY CONNECTED PLUMBING SYSTEM.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL CODES, RULES AND REGULATIONS GOVERNING THIS PROJECTS.
8. DURING THE PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS AND HOOK-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
9. UPON COMPLETION OF JOB, THIS CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
10. BEFORE ANY USE OF SYSTEM IS MADE FOR DOMESTIC PURPOSES, IT SHALL BE STERILIZED BY SLOWLY FILLING WITH WATER TO WHICH A STERILIZING AGENT HAS BEEN APPLIED, AT A RATE GIVING 50 PPM OF CHLORINE, AS DETERMINED BY RESIDUAL CHLORINE TEST AT EXTREMITIES OF THE LINE. AFTER LINES HAVE BEEN FILLED FOR A PERIOD OF THREE (3) HOURS, TESTS FOR RESIDUAL CHLORINE SHALL SHOW NOT LESS THAN 50 PPM. IF LESS THAN 50 PPM IS INDICATED, DRAIN OR FLUSH OUT THE LINE AND REPEAT STERILIZATION TREATMENT UNTIL TESTS INDICATE AT LEAST 50 PPM OF RESIDUAL CHLORINE AFTER THREE (3) HOURS. THE LINES SHALL BE FLUSHED UNTIL ALL TRACES OF CHEMICAL HAVE BEEN REMOVED.

**PLUMBING FIXTURE SCHEDULE**

MARK	FIXTURE	MINIMUM CONNECTION SIZES					DESCRIPTION
		W	V	C.W.	H.W.	GAS	
WE 1	WATER CLOSET HAND/CAP	4"	2"	1"			AMERICAN STANDARD 210AA101 CADET, 1.28 GALLON PER FLUSH PRESSURE ASSIST, WITH OPEN FRONT SEAT (NO COVER) WITH TRIP LEVER ON THE OPEN SIDE
LV 1	HANDICAP LAVATORY	2"	1 1/2"	1/2"	1/2"	1 1/2"	AMERICAN STANDARD 0255.012 LUCERN LAVATORY WITH AMERICAN STANDARD 1385.053 RELIANT 3, WITH 35 GPM AERATOR, FAUCET ADA AND GRID STRAINER
FS 1	FLOOR SINK	2"	1-1/2"				WADE 4150 WITH ALL WHITE BAKED ENAMEL C.I. FLOOR SINK WITH HALF GRATE, AND STRAINER
FD 1	FLOOR DRAIN	4"	2"				WADE 1100 STD FLOOR SINK WITH NICKEL BRONZE STRAINER
HB 1	HOSE BIBB WALL			3/4"			WOODFORD #10IC HOSE BIBB WITH VACUUM BREAKER,
HB 2	HOSE BIBB WALL			3/4"			WOODFORD #1865 HOSE BIBB WITH LOCKING COVER AND VACUUM BREAKER,
TP 1	TRAP PRIMER			1/2"			MIFAB INDUSTRIES CONNECTED TO WATER SUPPLY FOR TRAPS OF FLOOR SINK & FLOOR DRAIN PROVIDE WITH ACCESS PANEL
WH 1	WATER HEATER			1"	1"		RHEEM GHE-100-200, 199 MBH INPUT 230 GPH REC. @ 100° RISE, 650 LBS., 115 V., 1-PHASE ELECT.,
WH 2	WATER HEATER			3/4"	3/4"		RHEEM ELDS 30, 30 GALLON WITH TWO 3 KW ELEMENTS WIRED FOR SIMULTANEOUS OPERATION, 208V/3Ø
LI 1	LINT TRAP	4"	2"				JAY R SMITH 8910-150 LINT INTERCEPTOR, 150 GPM, PROVIDE WITH RECESSING RECEPTOR, 4" INLET AND OUTLET
S 1	PET WASH BASE	4"	2"				FLOORSTONE TERRAZZO 48X32 MODEL 100 WITH SHOWER DRAIN GRATE
DF 1	DRINKING FOUNTAIN, ADA	2"	1 1/2"	1/2"			ELKAY EHW1217C
MS 1	MOP SINK 24" X 24"	3"	2"	3/4"	3/4"		FLORESTAONE MSR-2424 WITH MR-371 FAUCET WITH VACUUM BREAKER
PDF 1	PET DRINKING FOUNTAIN	2"	1 1/2"	1/2"			TERRA BOUND SOLUTIONS METAL PEDESTAL PET FOUNTAIN FOUNTAIN, 32"H X 6-5/8" DIA X 19-5/8"
S 2	SINK	2"	1 1/2"	1/2"	1/2"	1 1/2"	ELKAY BORA-150G, 15X15 SERVICE SINK, STAINLESS STEEL, SELF RIMMING, 3 HOLES, 4" CENTERS WITH DELTA 5472402 FAUCET, 11 GPM, GOOSENECK SPOUT ADA COMPLIANT LEVEL BLADE HANDLES
WH 3	WATER HEATER			1/2"	1/2"		CHRONOMITE M-30L/20B, 6.24 KW, 208V/1Ø

UTILITIES DEMAND				GAS	
WASTE	WATER	HYAC	WATER HTG		
F.U.	F.U.	GPM	MBH	MBH	
EXIST.					
NEW	26	22	15	360	199
FUTURE					
TOTAL	26	22	15	360	199

TOTAL NEW GAS DEMAND = 559 MBH  
MAIN GAS PIPING SIZED BASED ON 559 MBH DEMAND  
LESS THAN 125 FEET FROM METER TO MOST REMOTE OUTLET. GAS PRESSURE IS 2 PSI GAS

DOMESTIC COLD WATER CALCULATION									
WATER INFO:	LOSSES	P.S.I. LEFT	PIPE SIZE	C/W G.P.M.	F.T. F.U.	F.V. F.U.	C/W VEL. G.P.M.	H/W G.P.M.	H/W VEL.
P.S.I. AVAILABLE AT METER			1/2"	4	4		6.0	3	5.0
P.S.I. AVAILABLE AFTER PRESSURE REDUCING STATION	N/A	42	3/4"	9	12		6.0	7	5.0
P.S.I. LOSS THRU WATER METER	N/A		1"	17	25		6.0	13	5.0
P.S.I. LOSS THRU BACKFLOW PREVENTOR	N/A		1-1/4"	24	40		6.0	20	5.0
LOSS DUE TO BLDG. HT 15 FT. X .43	6.45		1-1/2"						
P.S.I. REQUIRED FOR FIXTURE	15		2"						
LOSS THRU MIXING VALVE	N/A		2-1/2"						
TOTAL PRESSURE LOSS	21.5		3"						
P.S.I. AVAILABLE FOR FRICTION LOSS		20.5	4"						
AVAILABLE P.S.I. 21.0 X 100			5"						
LENGTH OF RUN = 125 FT.			6"						
100 FT. + 25% (FITTINGS) = 125 FT.			8"						

SYSTEM SIZED ON 16.8  
LOSS PER 100 FT  
PIPING SIZED ON VELOCITY

**PLUMBING LEGEND**


SYMBOL	ABBRV.	DESCRIPTION
---	SS	SOIL OR WASTE BELOW GRADE OR FLOOR
---	SS	SOIL OR WASTE ABOVE GRADE OR FLOOR
---	C.W.	DOMESTIC COLD WATER
---	H.W.	DOMESTIC HOT WATER
---	H.W.R.	HOT WATER RETURN
---	G.	GAS PIPING
---	CD	CONDENSATE DRAIN
---	V.	SANITARY VENT
---	V.	SANITARY VENT BELOW FLOOR
---	T.P.R.V.	TEMP. PRESS. RELIEF VALVE
---	G.V.	GATE VALVE
---	S.O.V.	SHUT-OFF VALVE
---	G.C.	GAS COCK
---	U.	UNION
---	H.B.	HOSE BIBB
---	A.P.	ACCESS PANEL
---	R.D.	ROOF DRAIN
---	O.D.	OVERFLOW DRAIN
---	F.C.O.	FLOOR CLEANOUT
---	W.C.O.	WALL CLEANOUT
---	C.O.T.E.	CLEANOUT TO GRADE
---	S.D.	STORM DRAIN
---	G.W.	GREASE WASTE
---	C.W.	CONDENSATE WASTE
---	V.T.R.	VENT THRU ROOF
---	P.O.C.	POINT OF CONNECTION
---	I.E.	INVERT ELEVATION
---	BEL.	BELOW
---	DN.	DOWN
---	FLR.	FLOOR
---	ABV.	ABOVE
---	SFCW.	SOFT FILTERED COLD WATER
---	GR.	GRADE
---	(C.T.E.)	CONNECT TO EXISTING, VERIFY LOCATION
---	(N)	NEW
---	(E)	EXISTING
---	SCW.	SOFT COLD WATER

CLIENT




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REGISTRATION



CONSULTANT

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415-332-8388

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ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	PERMIT SET
▲	6.10.19	CITY PLAN CHECK COMMENTS
	9.13.19	BID

PROJECT LOCATION

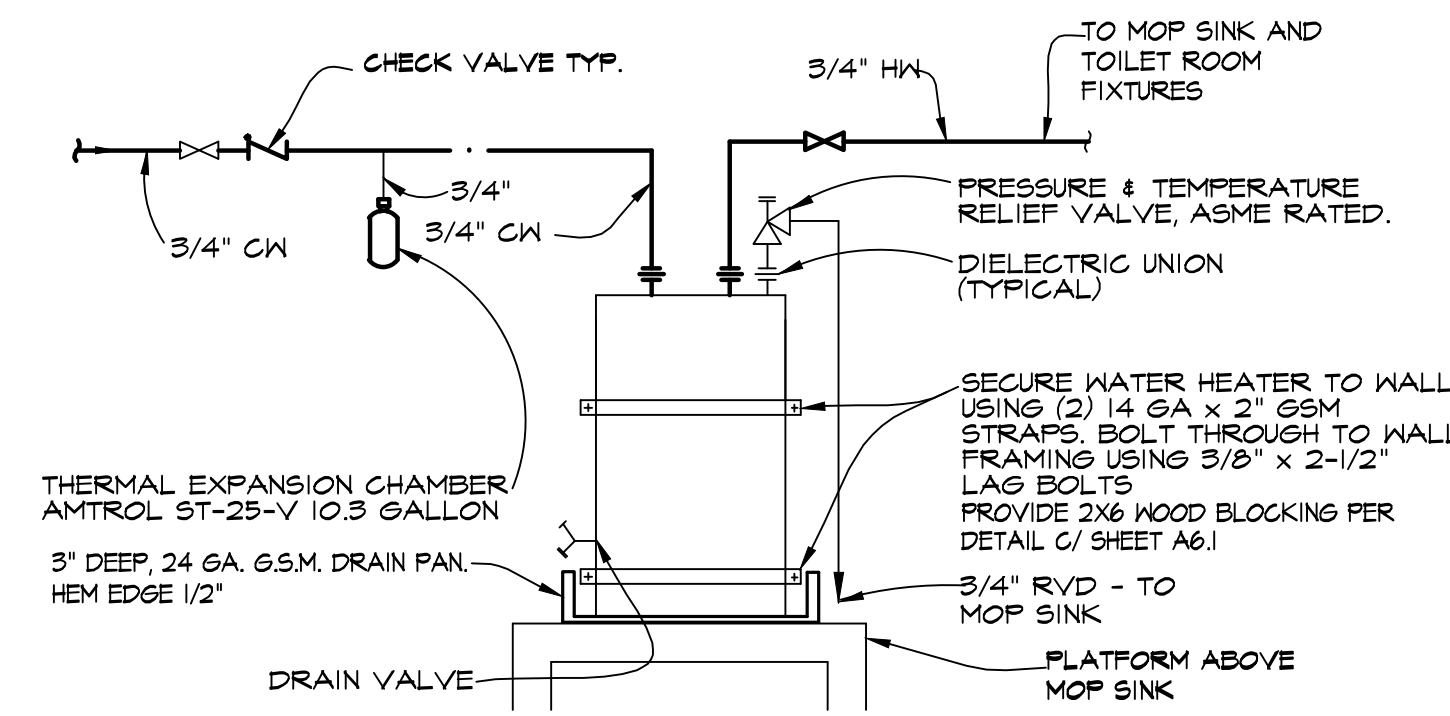
**PET FOOD EXPRESS**  
4700 Freeport Blvd Sutie 12K-A  
Sacramento, CA 95822

DRAWING TITLE

**PLUMBING SCHEDULES AND DETAILS**

SCALE: NTS  
PROJECT NUMBER: 1904  
SHEET NUMBER:

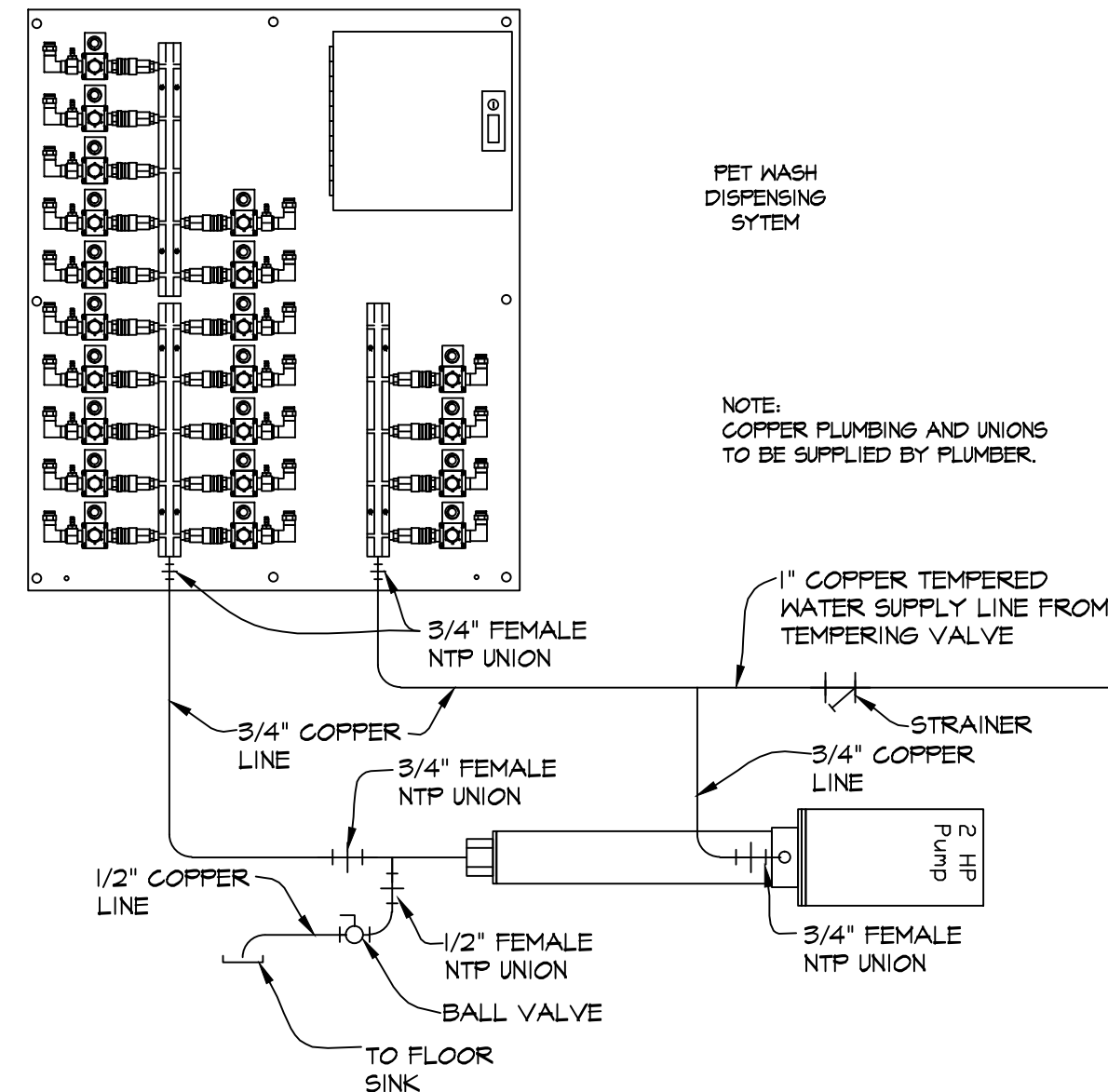




**WATER HEATER #2 PIPING**

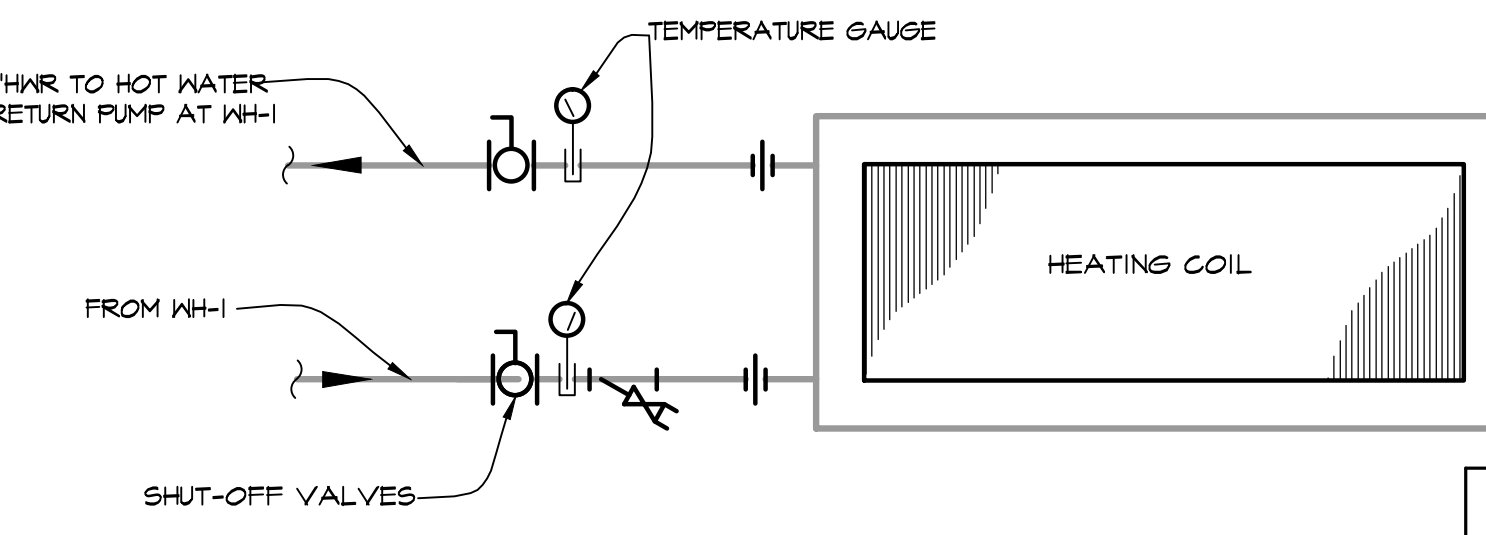
SCALE: NTS

NOTE: ALL PIPING SHALL BE TYPE L COPPER WITH FITTINGS. NO FLEXIBLE HOSES ARE ALLOWED. WATER SUPPLY LINES FROM THE TEMPERATURE VALVE TO PUMP, PUMP TO SHAMPOO DISPENSER, AND PUMP TO RINSE SHALL BE TYPE L COPPER. PLUMBER SHALL VERIFY LOCATION WITH DOG WASH INSTALLER. PROVIDE UNIONS AND ISOLATION VALVES AT PUMP, WITH AN INLET STRAINER



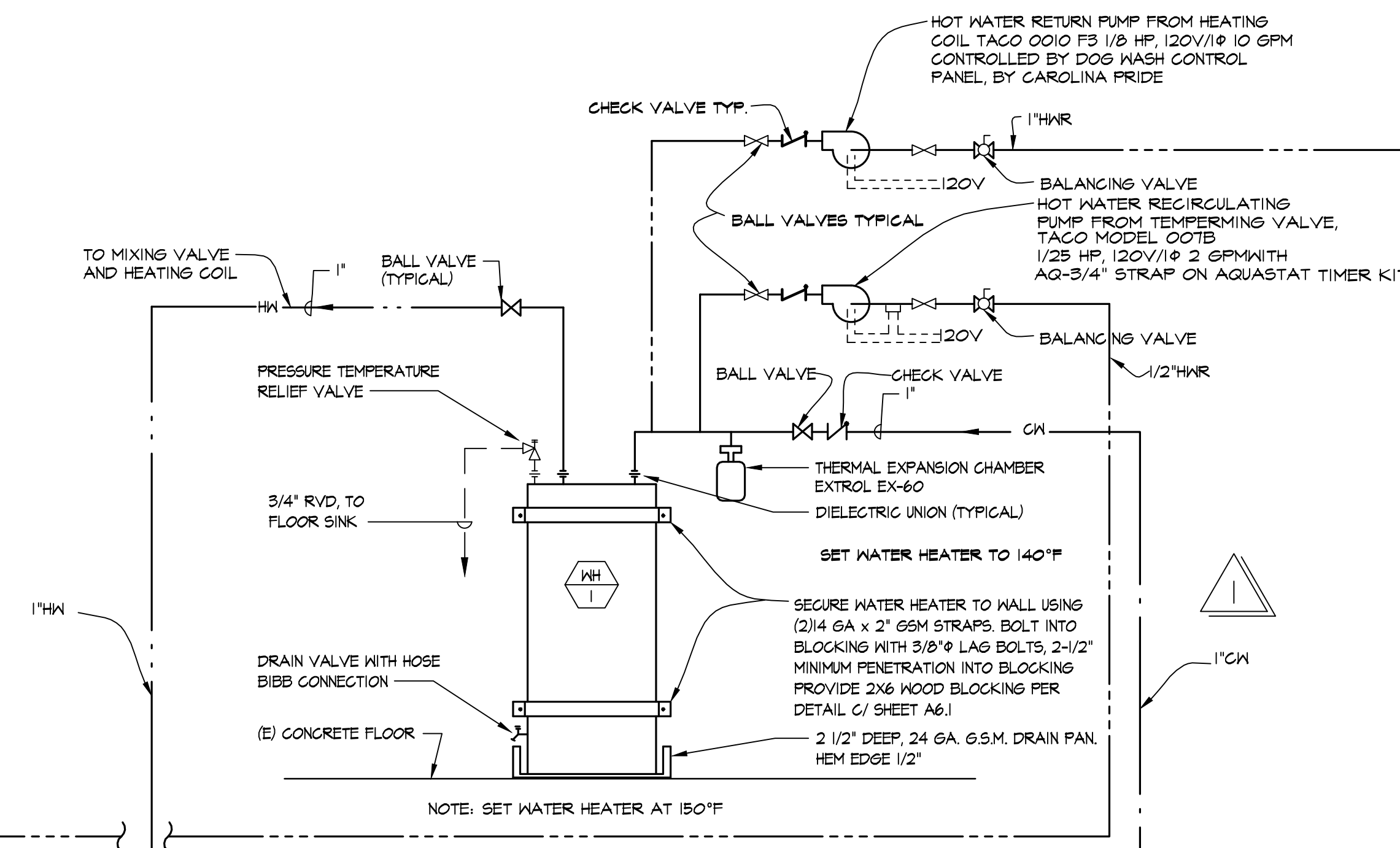
**PET WASH DISPENSING SYSTEM**

SCALE: NTS



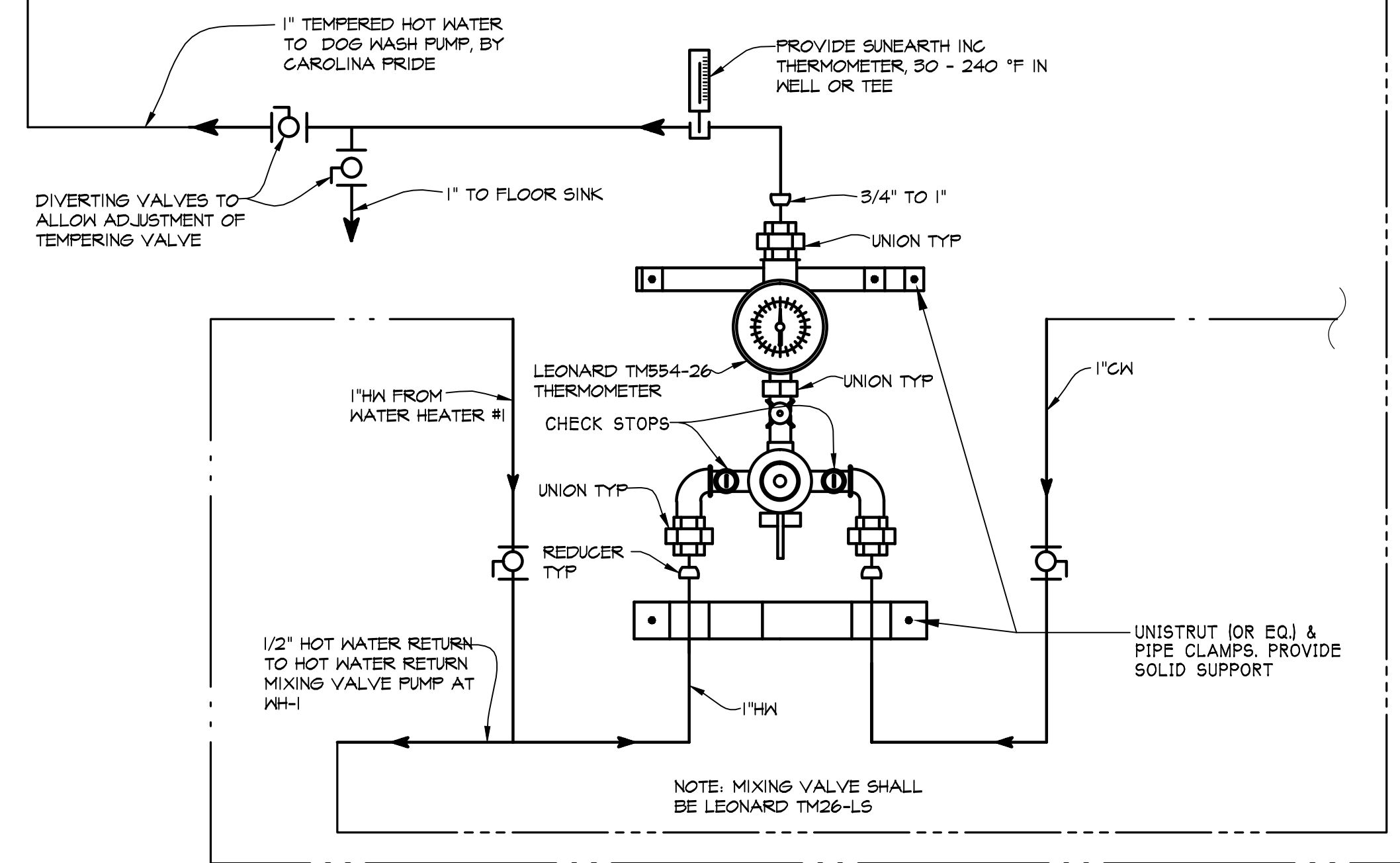
**PET WASH HEATING COIL**

SCALE: NTS



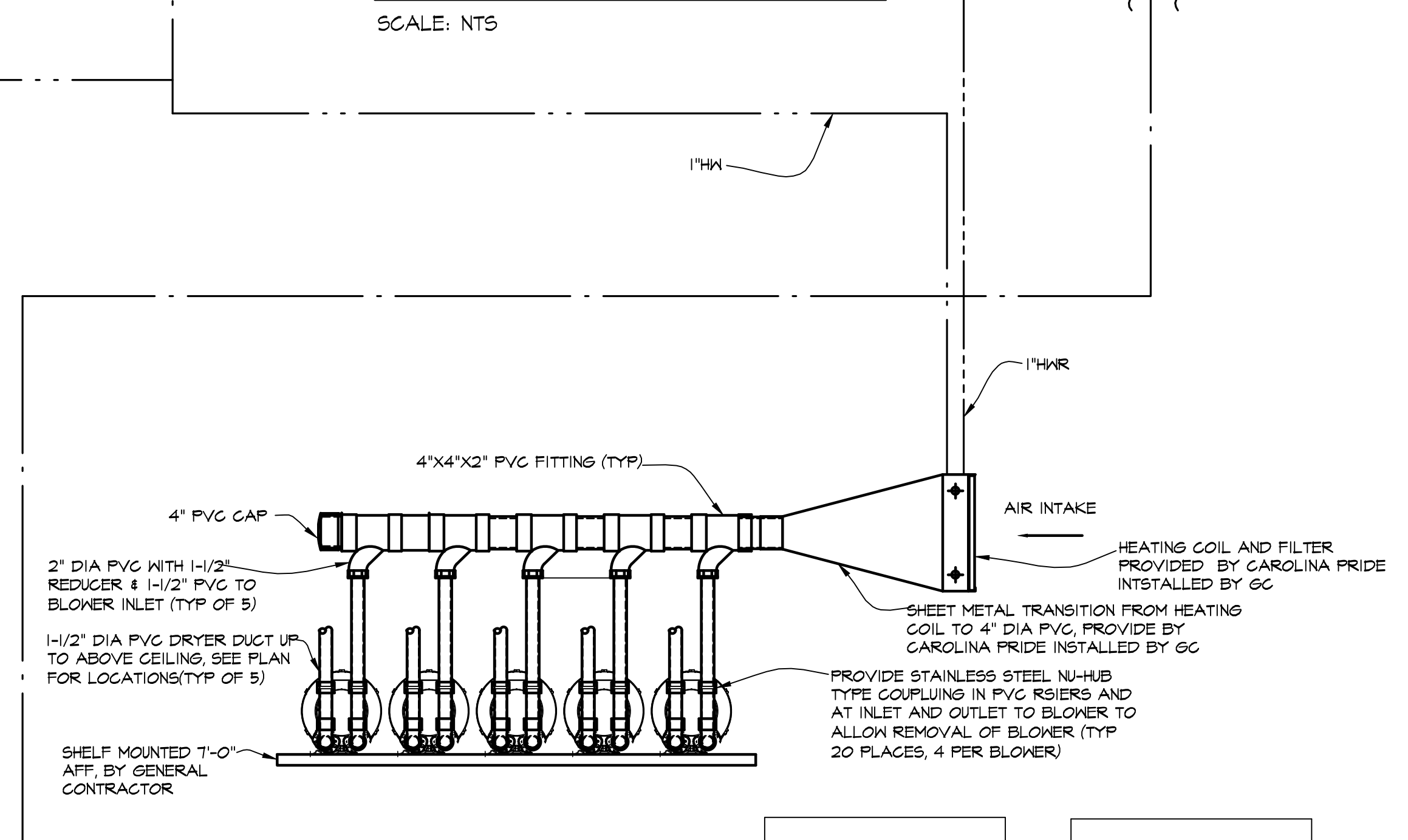
**WATER HEATER #1 PIPING**

SCALE: NTS



**PET WASH TEMPERING VALVE**

SCALE: NTS



**PET WASH DRYER BLOWER ASSEMBLY**

SCALE: NTS

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**REGISTRATION**

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**PROJECT LOCATION**

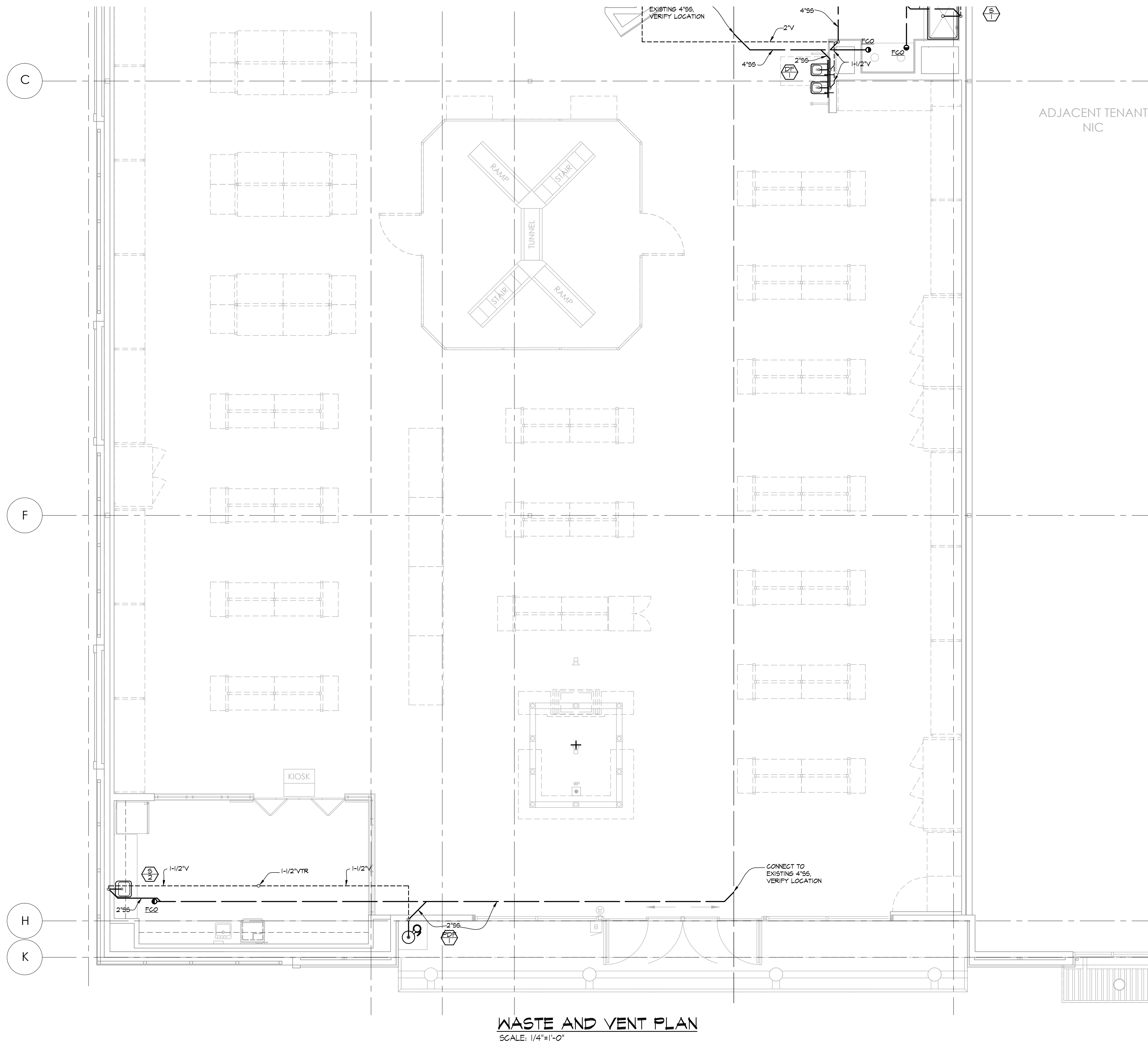
**PET FOOD EXPRESS**  
4700 Freepoint Blvd Suite 12K-A  
Sacramento, CA 95822

**DRAWING TITLE**

PLUMBING DETAILS  
NTS


SCALE:  
PROJECT NUMBER: 1904  
SHEET NUMBER: **P1.2**






**WASTE AND VENT PLAN**  
SCALE: 1/4"=1'-0"

**CLIENT**



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**ARCHITECT**



architecture + design

360 22nd Street, Suite 800  
Oakland, CA 94612  
p 415.541.0977  
www.msaf.com

**REGISTRATION**



**CONSULTANT**

**ELMENDORF & ASSOCIATES**  
MECHANICAL ENGINEERS

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SAUSALITO, CA 94965  
415-332-8388

**UNAUTHORIZED CHANGES**

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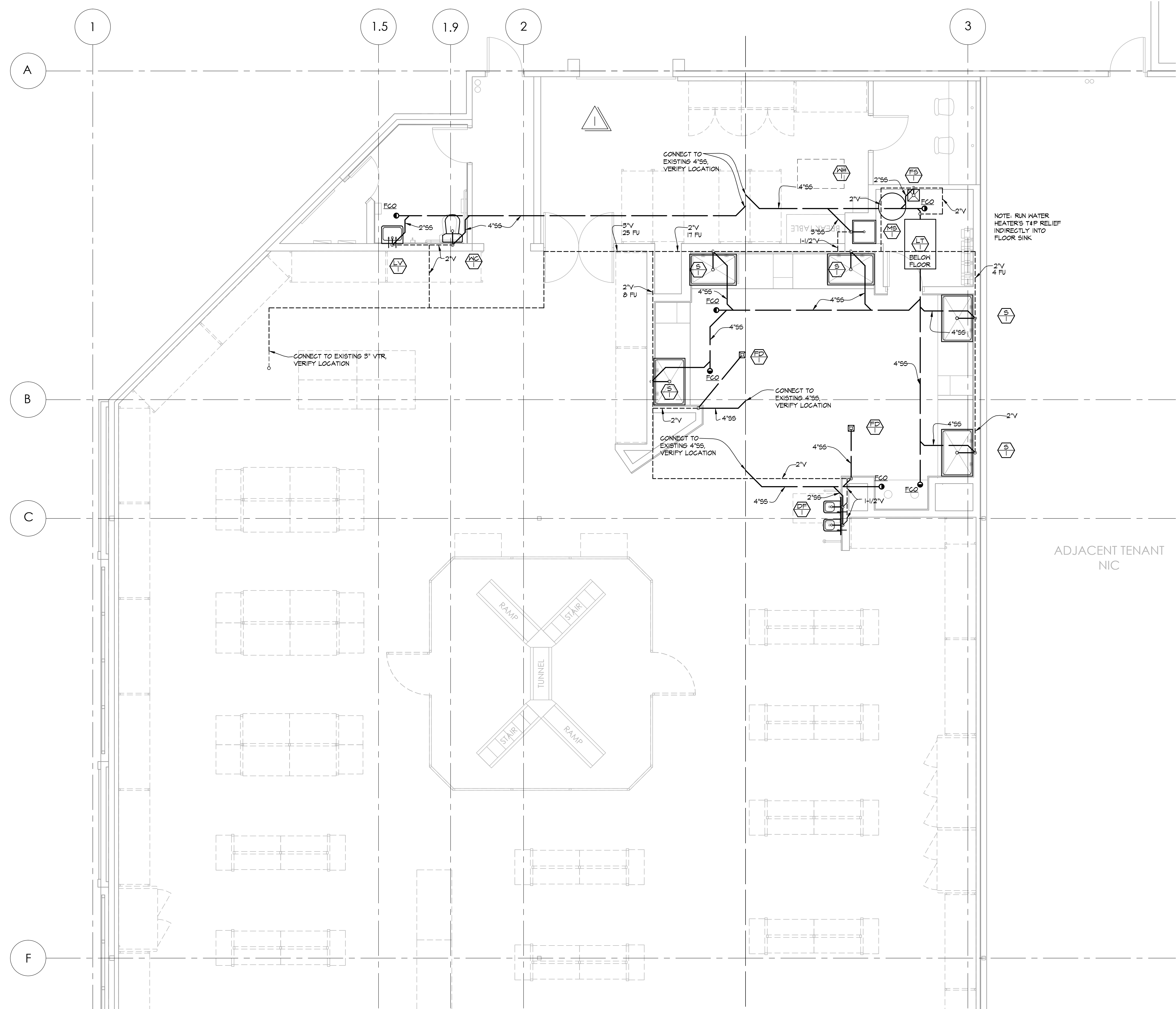
**DRAWING TITLE**

WASTE AND VENT PLAN

SCALE: 1/4"=1'-0"  
PROJECT NUMBER: 1904  
SHEET NUMBER:

**P2.1**





**WASTE AND VENT PLAN**  
SCALE: 1/4"=1'-0"

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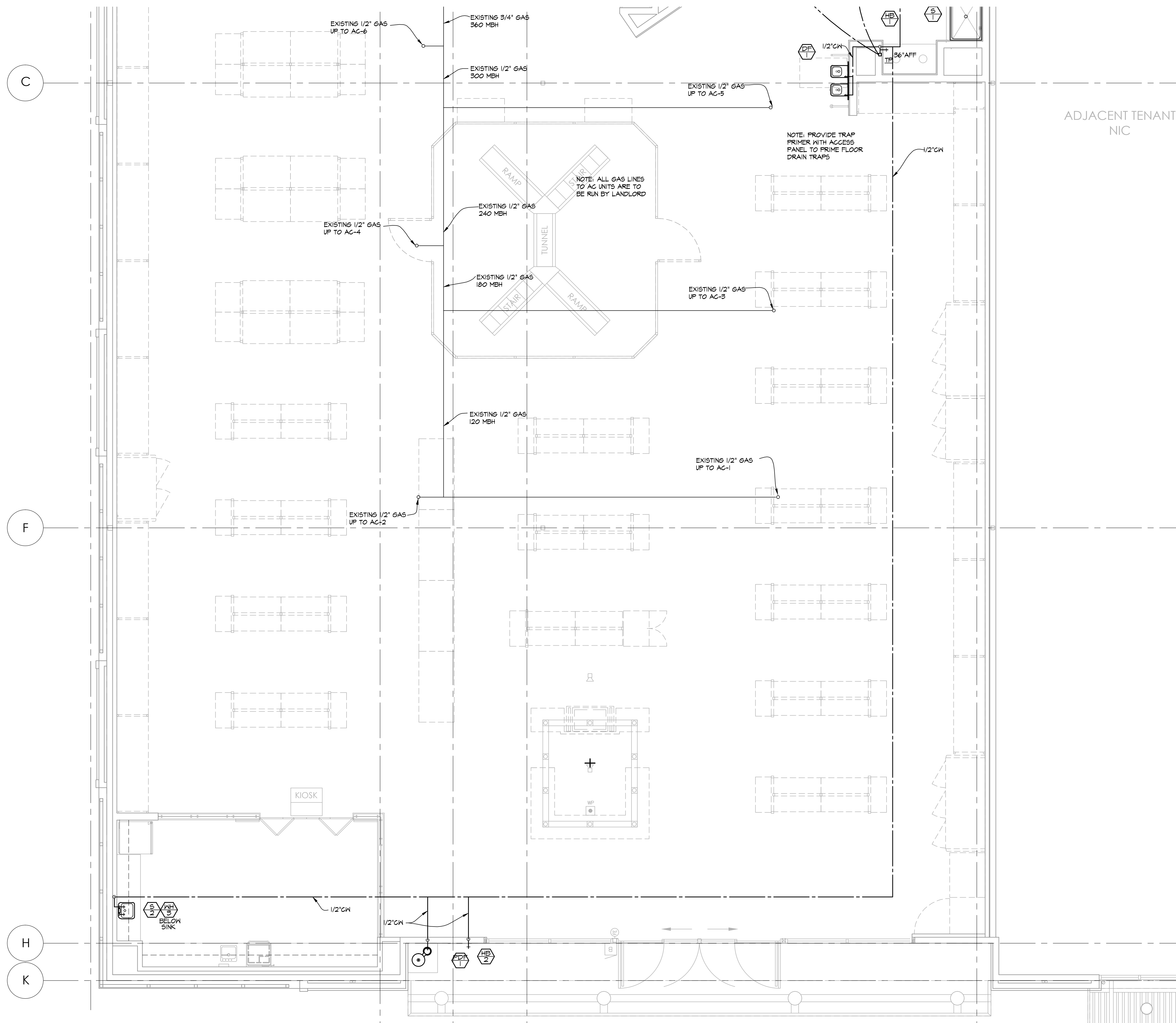
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**WASTE AND VENT PLAN**

SCALE: 1/4"=1'-0"  
PROJECT NUMBER: 1904  
SHEET NUMBER:

**P2.2**





**WATER AND GAS PIPING PLAN**  
SCALE: 1/4"=1'-0"

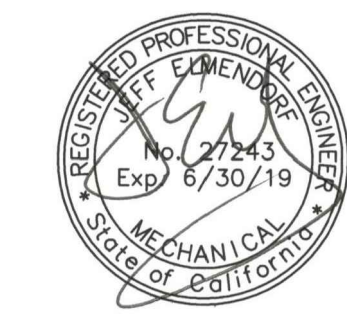
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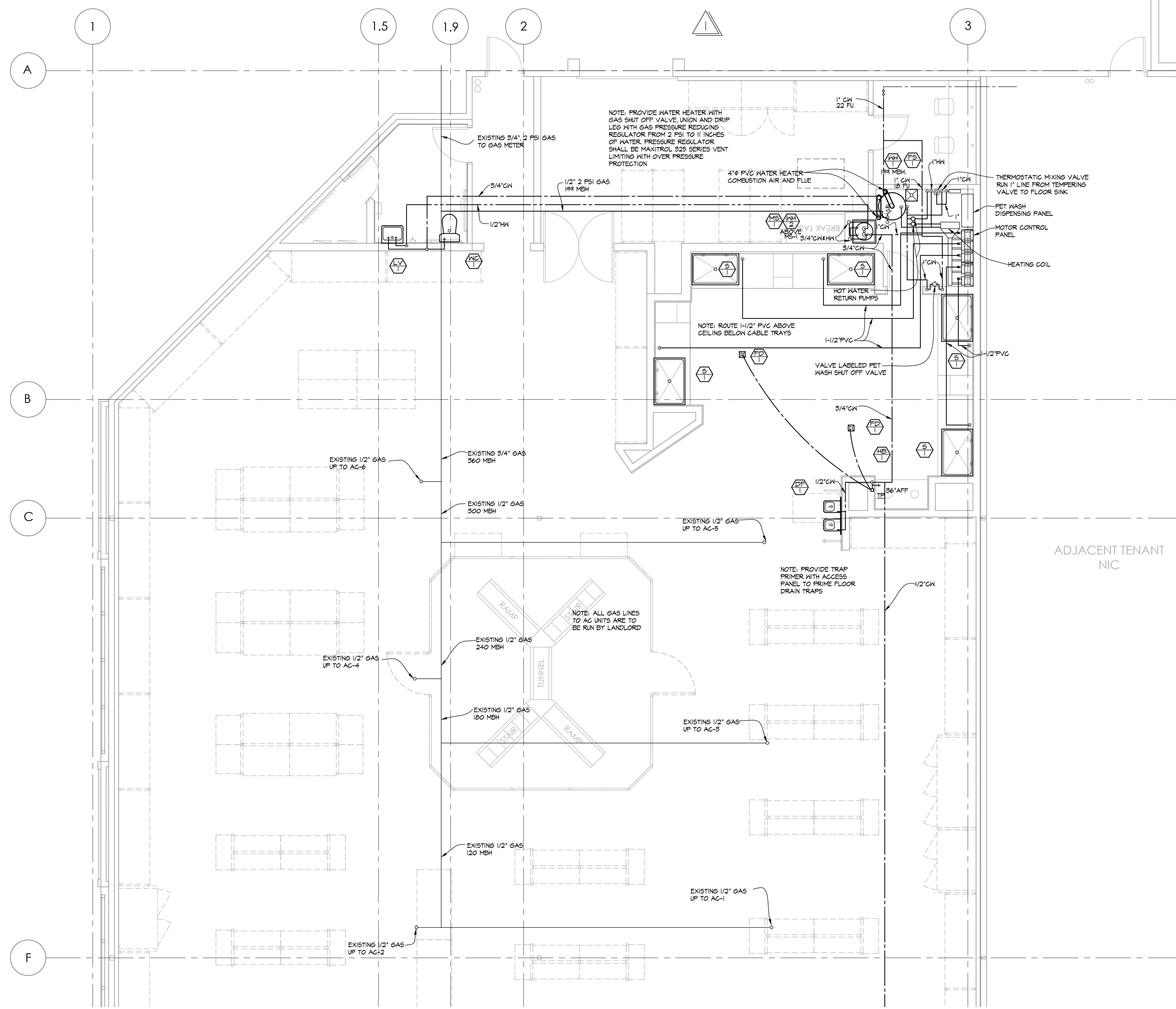
**DRAWING TITLE**

**WATER AND GAS PIPING PLAN**

SCALE: 1/4"=1'-0"  
PROJECT NUMBER: 1904  
SHEET NUMBER:

**P2.3**





NOTE: PROVIDE WATER HEATER WITH GAS SHUT OFF VALVE, UNION AND DRIP LEG WITH GAS PRESSURE REDUCING REGULATOR FROM 2 PSI TO 11 INCHES OF WATER. PRESSURE REGULATOR SHALL BE MAXITROL 325 SERIES VENT LIMITING WITH OVER PRESSURE PROTECTION

NOTE: PROVIDE TRAP PRIMER WITH ACCESS PANEL TO PRIME FLOOR DRAIN TRAPS

NOTE: ALL GAS LINES TO AC UNITS ARE TO BE RUN BY LANDLORD

**WATER AND GAS PIPING PLAN**  
SCALE: 1/4"=1'-0"

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**WATER AND GAS PIPING PLAN**

SCALE: 1/4"=1'-0"  
PROJECT NUMBER: 1904  
SHEET NUMBER:



PLUMBING SPECIFICATIONS

SECTION 15400 - PLUMBING

1.00 - GENERAL

1.01 SCOPE OF WORK

Provide and install complete and operational Plumbing system as indicated on the drawings and in this specification. Work shall include, but not be limited to the following:

- A. Water, waste and vent piping systems.
- B. Verifying location of existing and connection to building water and sewer systems.
- C. Access panels as shown or required by code.
- D. Hangers, supports and guides.
- E. Backing, and securing fixtures, trim and piping.
- F. Caulking and sealing of floor and wall penetrations.
- G. Plumbing fixtures, trim and accessories.
- H. Cutting, drilling and patching for plumbing systems.
- I. Cleanup of job site and fixtures.
- J. Licenses, permits and fees.

1.02 RELATED WORK INCLUDED UNDER OTHER SECTIONS

- A. HVAC Section 15000
- B. Testing and Balancing Section 15900
- C. Electrical Section 16000
- D. Fire Protection Section 15500

1.03 EXAMINATION OF SITE

- A. Contractor shall visit site and verify all existing conditions prior to submitting bid to familiarize himself with all existing conditions including entrance and exit facilities, elevator limitations, hours of permitted by the building for transportation of equipment and materials. Contractor must satisfy himself as to the nature and scope of the work and difficulties that affect the execution and completion of the work. The contractor shall examine all existing the site and determine where the existing sewer, water and gas are located for the purpose of connecting new systems.
- B. Submission of a bid will be construed as evidence that such an examination has been made and later claims for labor, equipment or materials required, or for any difficulties encountered which could have been avoided had a proper examination been made will not be compensated for or recognized.

1.04 DRAWINGS

- A. The drawings are generally diagrammatic and indicate general arrangement of equipment, piping, and fixtures.
- B. The contractor shall coordinate his work with all contract drawings and drawings of other trades.
- C. The contractor shall without extra charge, make reasonable modifications in the layout as needed to prevent conflict with work of other trades and structural members or for the proper execution of work.

1.05 RULES AND REGULATIONS:

- A. The work and materials shall conform and comply to the California Plumbing Code and Mechanical Code, National Electrical Code, National Fire Protection Association, L.L.'s manual and all applicable ordinances and codes of the authority having jurisdiction. Furnish without any extra charge, any additional material and labor when required to comply with these laws, ordinances and codes though the work be not mentioned in this division or shown on the drawings.
- B. Contractor shall obtain all approvals, tests, inspections and permits, and pay all necessary fees for all work pertaining to this project. All agencies having jurisdiction shall be complied with.

1.06 SHOP DRAWINGS AND MATERIAL SUBMITTALS

- A. Submit for review to the Architect a (6 copies) a complete and all-inclusive list of all equipment and materials proposed for use, accompanied by manufacturer's data sheets giving sizes, capacities, etc. Data shall be forwarded in a single package written 15 days after award of contract. contractor shall not install any equipment without Engineer's approval.
- B. A set of "as-built" drawings shall be prepared by the contractor showing all equipment and piping as installed in the field, including all sizes and changes to the original design. A set of reproductions, along with one set of blueprints of these "as-builts" shall be delivered to Yard House upon completion of the work and prior to final acceptance of this project. Also provide the Landlord with a set of as-builts
- C. The contractor shall coordinate his work with architectural drawings and work of other trades.

1.07 ELECTRICAL WORK

- A. The following electrical work shall be part of division 15 performed in accordance with division 16 specifications.
- B. Plumbing contractor shall verify the electrical characteristics required of all equipment with the electrical drawings, electrical contractor, and field conditions prior to ordering any equipment.
- C. All power wiring shall be by electrical contractor.

1.08 OPERATION MANUALS AND OWNER INSTRUCTIONS

- A. Contractor shall furnish operating and maintenance instruction at the completion of the installation. Submit three copies of bound manuals.
- B. At the completion of work the contractor shall in the conjunction with the Owner's representatives, arrange a meeting for full instruction of all details of operation and maintenance for the equipment provided. Contractor shall provide equipment check list shown on these drawings.

1.09 CUTTING AND PATCHING

- A. The contractor shall do all cutting, drilling and patching which may be required for the installation of the work under this specification.
- B. Patching shall be of the same workmanship, material and finish, and shall match accurately all surrounding construction in a manner satisfactory to the Architect/ Engineer.
- C. No cutting of the structure shall be permitted without written approval of the Architect/ Engineer, and Landlord.
- D. Existing utilities, etc. that are damaged during the construction period, whether or not due to the contractor's negligence shall be repaired or replaced by the contractor and left in a condition satisfactory to the Engineer and Landlord.
- E. The space around pipes, utilities, etc. penetrating rated walls, shall not exceed 1/2 inch and shall be packed solid with mineral wool or equivalent. Perimeter shall be closed off by tight fitting metal escutcheons on both sides of this construction as required by applicable codes.

1.10 GUARANTEE

The Contractor shall leave the entire installation in complete working order free from any defective material, workmanship or finish. He shall guarantee to repair or replace, without charge, defects due to faulty workmanship or material for a period of one year from the date of filing of the Notice of Completion.

2.00 - PRODUCTS

2.01 PIPE AND FITTINGS

- A. Pipe:
  - 1. Sanitary, waste and vent: Standard weight ABS when approved by the building official for underground only, all other shall be standard weight cast iron with no hub fittings
    - a. Type DWV copper with sanitary drainage fittings may be used.
    - b. All exposed waste piping, both direct and indirect shall be type "L" hard drawn copper with wrought copper fittings with 45-5 tin-antimony solder
  - 2. Domestic hot and cold water piping: Type "L" hard drawn copper pipe and wrought copper fittings with 45-5 tin-antimony solder. Type "K" underground with silver solder joints.
  - 3. Condensate Drain piping: Type "M" hard drawn copper pipe and wrought copper fittings with 45-5 tin-antimony solder. Furnace condensate drain piping shall be schedule 40 PVC.
  - 4. Gas piping:
    - a. Schedule 40 black steel with screwed MI fittings for interior. Welded in plenums.
    - b. Schedule 40 black steel with screwed MI fittings painted with two coats exterior enamel for exterior.
    - c. Contractor shall provide accessible gas main shut off valve that is clearly labeled.
  - 5. Storm Drain piping: Galvanized steel or cast iron.
  - 6. Connection of dissimilar metals shall be made with a dielectric union

2.02 INSULATION

- A. Hot and cold water piping shall be insulated with Manville Microlok fiberglass pipe insulation type AP-T plus or approved equal. 1 inch thick with a "k" factor of 0.23 @ 75° F mean temperature. Insulation shall have composite insulation, jacket and adhesive used to adhere the jacket to the insulation. Fire and smoke hazard rating shall not exceed a flame spread of 25 or smoke development of 50.

2.03 HANGERS AND SUPPORTS

- A. Superstrut, Grinnell or approved equal: Provide where required by code. A layer of 15 lb. felt shall be placed between copper and ferrous material.

2.03 VALVES

- A. Gate Valves: 2" and smaller, Stockham B-109, bronze valve, rising stem, class 125.
- B. Check valves: 2-1/2" and smaller, Stockham B309, bronze valve, swing check valve, class 125.
- C. Hose Bib: Chicago, Woodford model 24 or equal with vacuum breaker and tamper proof with loose key.
- D. Trap Primer: Precision Products Co. P-1 or P-2.
- F. Spring Check Valves: 2-1/2" and smaller, Nibco S-480, bronze ring spring check valve, class 125.

3.00 - INSTALLATION AND EXECUTION

3.01 INSTALLATION

- A. General
  - 1. Install piping and appurtenances in accordance with manufacturer's installation procedures, applicable codes and standards, and as specified.
  - 2. Coordinate piping installation with other work to avoid interference. Coordinate as necessary to ensure that all hangers, supports, sleeves and other built-in devices are incorporated in forms or masonry to avoid necessity of cutting finished structure.
  - 3. All measurements, both horizontal and vertical, shall be based on established lines and levels. Verify all measurements at site and check the correctness of same as related to the work.
  - 4. Provide valves at all equipment so that it can be easily removed.
  - 5. All branch piping shall have accessible service valves. Provide access panels as required.
- B. Piping
  - 1. Install piping as shown on the drawings and straight and direct as possible, forming right angles or parallel lines with building walls, neatly spaced, with risers plumb and true. No compression fittings shall be allowed.
  - 2. Piping shall pitch back toward system drain valve and any installed low points or pockets shall have a hose end drain valve.
  - 3. Erect all piping to obtain sufficient flexibility to prevent excessive bending moments at joints or connections.
  - 4. Arrange water piping so that system can be completely drained. Where lines are purposely pitched for drainage, a uniform grade shall be maintained. Lines shall be so supported as to prevent pocketing of water. No lines shall have pockets due to changes in elevation unless proper provisions for drainage are made.
  - 5. Installed piping shall not interfere with the operation or accessibility of doors and windows; shall not encroach on aisles, passageways and equipment; and shall not interfere with the servicing or maintenance of any equipment. Adjacent pipelines shall be grouped in the same horizontal or vertical plane.
  - 6. Install insulating unions in water piping between copper piping and ferrous piping.
  - 7. Install unions adjacent to valves and where necessary to facilitate disassembly of piping.
  - 8. Support piping independently of equipment to which it is connected.

3.02 HYDROSTATIC TESTS

A. Storm and Sanitary Drainage and Vents

- 1. Tightly close all openings in the entire system and fill it with water to the point of overflowing above the roof. The water level shall be maintained for 24 hours.
- 2. When piping is tested in sections, test piping with a pressure equivalent to a 10 foot water head. The water level shall be maintained for 24 hours.
- 3. For piping added, relocated or replaced on existing system, install a test tee at the lowest elevation of each added, relocated or replaced piece of pipe and fill it with water to the overflow level of the next highest fixture outlet or drain. The water level shall be maintained for 24 hours.

B. Domestic Water

- 1. Cap or plug all outlets, apply a hydrostatic pressure of 150 psi and sustain such pressure for 24 hours.
- 2. For piping added, relocated or replaced on existing systems, apply a hydrostatic pressure of 50 psi above the existing pressure for 24 hours.

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4700 Freeport Blvd Sutie 12K-A  
Sacramento, CA 95822

DRAWING TITLE

**PLUMBING  
SPECIFICATION**

SCALE: NTS  
PROJECT NUMBER: 1904  
SHEET NUMBER:

**P3.1**



NEW		EXISTING		"P"												AIC: 65K	
VOLTAGE:		208Y/120V-3Ø-4W		MOUNTING:		SURFACE		LOCATION:		STOCK ROOM							
BUS:		600A															
LINE NO.	LOAD DESCRIPTION	VA	VB	VC	CB	BUS	CB	VA	VB	VC	LOAD DESCRIPTION	LINE NO.	VA	VB	VC		
1	ROOFTOP GFICI RECS	900						1,200	1,200		RECEIVING FREEZER	2					
3	BATHROOM/UTILITY RECS	540									RECEIVING FREEZER	4					
5	HAND DRYER		1,200								MICROWAVE / CONVENIENCE RECS	6					
7	OFFICE DESK REC #1	600						880			MINI-FRIDGE / COUNTER RECS	8					
9	OFFICE DESK REC #2	600						720			RECEIVING/HALL RECS	10					
11	FREEZER ALARM PANEL		600	180					1,000		AV / IT NETWORK RACK	12					
13	MUSIC SYSTEM REC										DVR EQUIPMENT	14					
15	SALES CONVENIENCE RECS		1,440						360		PHONE BACKBOARD RECS	16					
17	WELLNESS COUNTER RECS			900						400	FACP / SECURITY PANELS	18					
19	WELLNESS COUNTER RECS		720						518		DOG DELI CASE	20					
21	FRONT EXTERIOR GFICI REC		180							400	POS REGISTER #1	22					
23	CASH WIFI / ANNUNCIATOR			300							POS REGISTER #2	24					
25	FRONT AUTOMATIC DOOR		600		300				720		FRONT CASHWRAP RECS	26					
27	"JFFD" TV / FRIDGE		1,100						1,080		BACK CASHWRAP RECS	28					
29	WELLNESS FRIDGES			1,440							SPARE	30					
31	PETWASH POWER PANEL		5,040						3,523		PANEL "L"	32					
33			5,040								PANEL "M"	34					
35			5,040								PANEL "M"	36					
37	PANEL "P2"		9,275						17,714		PANEL "M"	38					
39			8,115						18,795			40					
41			8,150						17,208			42					
SUBTOTAL		17,735	17,015	17,210				25,555	26,729	24,149	SUBTOTAL						
TOTAL VOLT-AMPERES/PHASE:		ØA = 43,290			ØB = 43,744			ØC = 41,359									
TOTAL DESIGN VOLT-AMPERES:		128,393															
		AMPS = 337															

NEW		EXISTING		"P2"												AIC: 65K	
VOLTAGE:		208Y/120V-3Ø-4W		MOUNTING:		SURFACE		LOCATION:		STOCK ROOM							
BUS:		200A															
LINE NO.	LOAD DESCRIPTION	VA	VB	VC	CB	BUS	CB	VA	VB	VC	LOAD DESCRIPTION	LINE NO.	VA	VB	VC		
1	WATER HEATER "WH-2"	1,500									SPARE	2					
3			3,000								SPARE	4					
5				1,500						1,330	DOG 2-DOOR HYBRID FREEZER	6					
7	WATER HEATER "WH-3"	3,120									"JFFD" HYBRID FREEZER	8					
9			3,120							1,995		10					
11	CAT 2-DOOR HYBRID FREEZER										SPARE	12					
13			1,330								SPARE	14					
15	SPARE										SPARE	16					
17	SPARE										DOG 3-DOOR HYBRID FREEZER	18					
19	SPARE									1,995		20					
21	SPACE										SPACE	22					
23	SPACE										SPACE	24					
25	SPACE										SPACE	26					
27	SPACE										SPACE	28					
29	SPACE										SPACE	30					
SUBTOTAL		5,950	6,120	2,830				3,325	1,995	5,320	SUBTOTAL						
TOTAL VOLT-AMPERES/PHASE:		ØA = 9,275			ØB = 8,115			ØC = 8,150									
TOTAL DESIGN VOLT-AMPERES:		25,540															
		AMPS = 71															

NEW		EXISTING		"M"												AIC: 65K	
VOLTAGE:		208Y/120V-3Ø-4W		MOUNTING:		SURFACE		LOCATION:		STOCK ROOM							
BUS:		200A															
LINE NO.	LOAD DESCRIPTION	VA	VB	VC	CB	BUS	CB	VA	VB	VC	LOAD DESCRIPTION	LINE NO.	VA	VB	VC		
1	AIR-CONDITIONER "AC-1"	2,868						506			EXHAUST FAN "EF-1"	2					
3			2,868					1,587			EXHAUST FAN "EF-2"	4					
5				2,868				2,868		2,868	AIR-CONDITIONER "AC-4"	6					
7	AIR-CONDITIONER "AC-2"	2,868						2,868				8					
9			2,868					2,868				10					
11	AIR-CONDITIONER "AC-3"	2,868						2,868		2,868	AIR-CONDITIONER "AC-5"	12					
13				2,868				2,868				14					
15				2,868				2,868				16					
17				2,868				2,868				18					
19	SPACE							2,868		2,868		20					
21	SPACE										SPACE	22					
23	SPACE										SPACE	24					
25	SPACE										SPACE	26					
27	SPACE										SPACE	28					
29	SPACE										SPACE	30					
SUBTOTAL		8,604	8,604	8,604				9,110	10,191	8,604	SUBTOTAL						
TOTAL VOLT-AMPERES/PHASE:		ØA = 17,714			ØB = 18,795			ØC = 17,208									
TOTAL DESIGN VOLT-AMPERES:		53,717															
		AMPS = 149															

NEW		EXISTING		"L"												AIC: 65K	
VOLTAGE:		208Y/120V-3Ø-4W		MOUNTING:		SURFACE		LOCATION:		STOCK ROOM							
BUS:		200A															
LINE NO.	LOAD DESCRIPTION	VA	VB	VC	CB	BUS	CB	VA	VB	VC	LOAD DESCRIPTION	LINE NO.	VA	VB	VC		
1	FRONT "OPEN" SIGN	180						340			BACK-OF-HOUSE LTG	2					
3	STORE EXTERIOR SIGNAGE		1,200					150			PETWASH GENERAL LTG	4					
5	WELLNESS CENTER SIGNAGE			1,200						176	PETWASH ACCENT LTG	6					
7	PERIMETER RACK DISPLAY LTG	336						1,067			SALES PENDANT LTG	8					
9	MONOPOINT / TRACK LTG		780					1,358		1,358	SALES PENDANT LTG	10					
11	CASHWRAP PENDANT LTG			300							SALES PENDANT LTG	12					
13	FREEZER CASE LTG	228						1,164			SALES PENDANT LTG	14					
15	SPARE									776	SALES PENDANT LTG	16					
17	SPARE									727	SALES PENDANT LTG	18					
19	SPARE									436	SALES PENDANT LTG	20					
21	SPACE										SPACE	22					
23	SPACE										SPACE	24					
25	SPACE										SPACE	26					
27	SPACE										SPACE	28					
29	LIGHTING CONTROLLERS	744	1,980	400				3,007	2,284	2,261	SUBTOTAL	30					
SUBTOTAL																	
TOTAL VOLT-AMPERES/PHASE:		ØA = 3,751			ØB = 4,264			ØC = 4,161									
TOTAL DESIGN VOLT-AMPERES:		12,176															
		AMPS = 34															

1 PROVIDE BREAKER "LOCK-ON" DEVICE.

### FEEDER CALCS

PANEL	DESCRIPTION	VA	VB	VC	TOTAL
PANEL "P"	POS REGISTER - 2 @ 400W EACH				800 W
	OFFICE COMPUTER REC - 2 @ 600W EACH				1,200 W
	MUSIC SYSTEM				600 W
	AVIT RACK				1,000 W
	DVR EQUIPMENT				1,000 W
	FIRE ALARM CONTROL PANEL				200 W
	SECURITY PANEL				200 W
	DOG DELI CASE				518 W
	HAND DRYER				1,200 W
	AUTO DOOR				600 W
	RECEIVING FREEZER - 2 @ 1,200W EACH				2,400 W
	WELLNESS LUC FRIDGE - 2 @ 720W EACH				1,440 W
	JUST FOR DOGS TV				500 W
	JUST FOR DOGS FRIDGE				600 W
	CASH WIFI & ANNUNCIATOR				300 W
	PANEL "PW" (PETWASH POWER PANEL)				15,120 W
	PANEL "L"				11,458 W
	PANEL "M"				53,717 W
	PANEL "P2"				25,538 W
	RECEPTACLES - 44 @ 180W EACH				7,920 W
	SUBTOTAL				125,911 W
	25% CONTINUOUS LOAD				8,065 W
	25% LARGEST MOTOR				1,440 W
	TOTAL				135,956 W

FOR A 208Y/120V-3Ø-4W SYSTEM:  
 $135,956 W \div (208V \cdot \sqrt{3}) = 379$  AMPS.  
 A 600A FEEDER IS ADEQUATE.

PANEL	DESCRIPTION	VA	VB	VC	TOTAL
PANEL "P2"	CAT 2-DOOR HYBRID FREEZER				2,660 W
	DOG 2-DOOR HYBRID FREEZER				2,660 W
	DOG 3-DOOR HYBRID FREEZER				3,989 W
	"JFFD" HYBRID FREEZER				3,989 W
	WATER HEATER "WH-2"				8,000 W
	WATER HEATER "WH-3"				6,240 W
	SUBTOTAL				25,538 W
	25% CONTINUOUS LOAD				0 W
	25% LARGEST MOTOR				768 W
	TOTAL				26,306 W

FOR A 208Y/120V-3Ø-4W SYSTEM:  
 $26,306 W \div (208V \cdot \sqrt{3}) = 73$  AMPS.  
 A 100A FEEDER IS ADEQUATE.

PANEL	DESCRIPTION	VA	VB	VC	T
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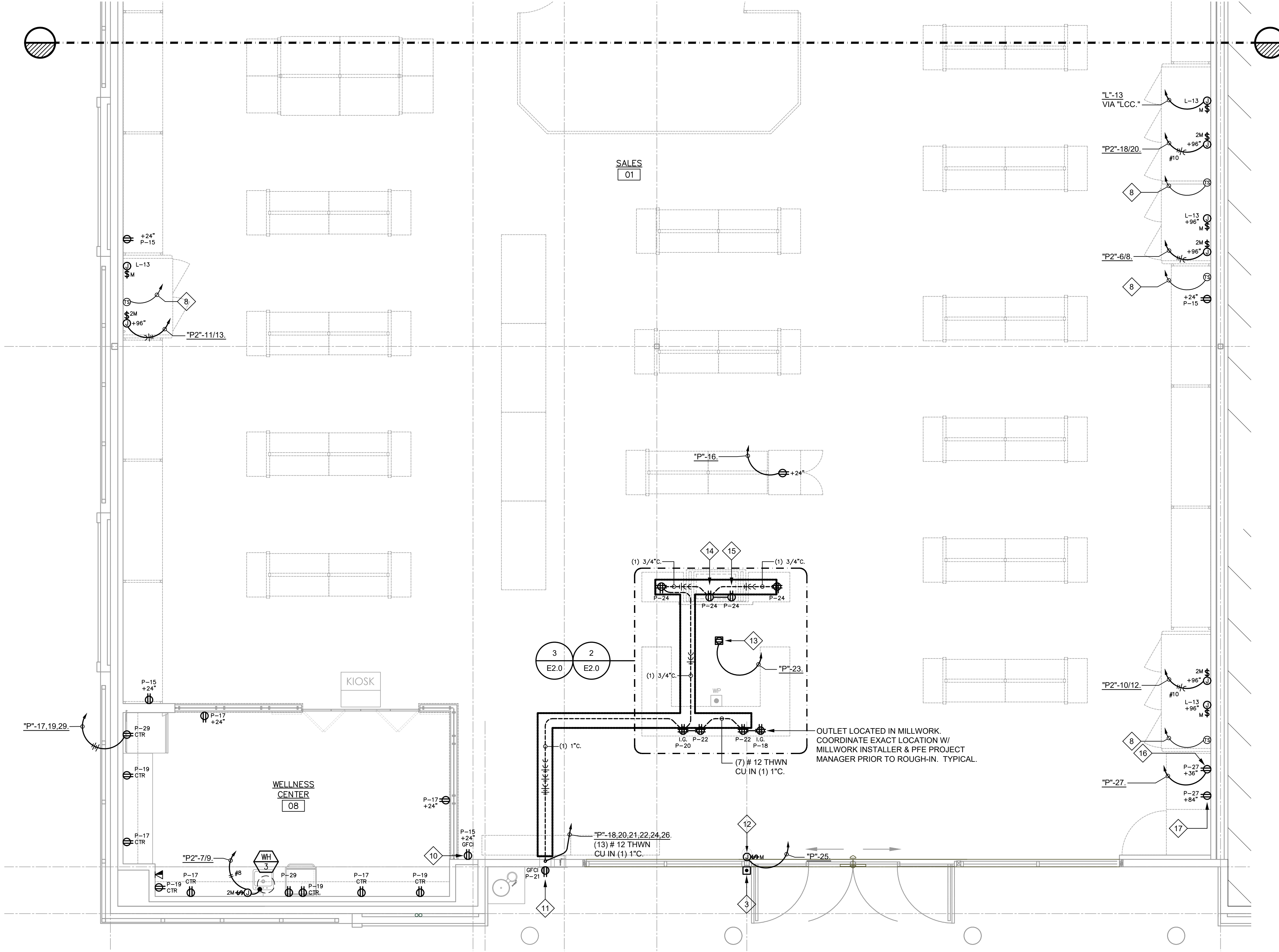


**3 CASHWRAP "LOOSE DOG" SIGNAL PLAN**  
SCALE: 1/4" = 1'-0"

**2 CASHWRAP SIGNAL PLAN**  
SCALE: 1/4" = 1'-0"

**POWER NUMBERED NOTES:**

- 1 TELEPHONE BACKBOARD. 4'X8'X1/2" FIRE RESISTANT PLYWOOD, PAINTED WHITE. PROVIDE (1) # 6 CU GND & CONNECT TO PANEL "P." VERIFY EXACT LOCATION W/ PFE PROJECT MANAGER PRIOR TO ROUGH-IN.
- 2 FIRE ALARM CONTROL PANEL. DESIGN IS A DEFERRED SUBMITTAL. PROVIDE POWER & PHONE CONNECTION FOR PANEL. VERIFY LOCATIONS W/ PFE PROJECT MANAGER PRIOR TO ROUGH-IN.
- 3 BUZZER PUSHBUTTON. INSTALL LOW-VOLTAGE WIRE FROM PUSHBUTTON TO BUZZER IN OFFICE. COORDINATE PUSHBUTTON LOCATION W/ PFE PM PRIOR TO ROUGH-IN.
- 4 J-BOX FOR HAND DRYER. COORDINATE LOCATION W/ MECHANICAL INSTALLER PRIOR TO ROUGH-IN.
- 5 OUTLET FOR WH RECIRC PUMPS. COORDINATE LOCATION IN FIELD W/ WH INSTALLER PRIOR TO ROUGH-IN.
- 6 FLUSH MOUNTED J-BOX FOR CONNECTION TO PETWASH DRYER MOTOR. RUN 1" C. INTERIOR TO WALL, FROM MOTOR CONTROL CENTER UP TO J-BOX. INSTALL PULLSTRING & TIE OFF AT BOTH ENDS. VERIFY CONNECTION TYPE W/ INSTALLER PRIOR TO ROUGH-IN.
- 7 RECEPTACLE FOR ANNUNCIATOR POWER LOCATED IN STOCKROOM AT +72" A.F.F.
- 8 3/4" W/ BELDEN CABLE #8451 FROM TEMPERATURE PROBE TO ALARM PANEL IN MANAGER'S OFFICE.
- 9 NOT USED.
- 10 RECEPTACLE FOR PET RECIRCULATING DRINKING FOUNTAIN. COORDINATE EXACT LOCATION W/ PFE PM PRIOR TO ROUGH-IN.
- 11 RECEPTACLE SHALL BE RECESSED INTO WALL. PROVIDE W/ WP LOCKABLE COVER. VERIFY EXACT LOCATION W/ PFE PROJECT MANAGER PRIOR TO ROUGH-IN.
- 12 PROVIDE J-BOX FOR AUTOMATIC DOOR POWER. BOX HAS (3) CONDUITS: ONE FOR POWER, SECOND FROM PETWASH "DOG LOOSE" BUTTON, & THIRD, BACK TO "DOG LOOSE" BUTTON AT CASHWRAP. COORDINATE LOCATION W/ DOOR INSTALLER & LOW-VOLTAGE INSTALLER PRIOR TO ROUGH-IN.
- 13 RECEPTACLE LOCATED ABOVE CASHWRAP FOR ANNUNCIATOR & STORE WI-FI POWER.
- 14 PROVIDE RECEPTACLE FOR SCALE. COORDINATE EXACT LOCATION W/ MILLWORK INSTALLER & PFE PM PRIOR TO ROUGH-IN.
- 15 RECEPTACLE FOR PET TAG MACHINE. COORDINATE EXACT LOCATION W/ MILLWORK INSTALLER & PFE PM PRIOR TO ROUGH-IN.
- 16 RECEPTACLE MOUNTED UNDER COUNTER FOR "JUST FOOD FOR DOGS" REFRIGERATOR. COORDINATE EXACT LOCATION W/ MILLWORK INSTALLER & PFE PM PRIOR TO ROUGH-IN.
- 17 RECEPTACLE FOR "JUST FOOD FOR DOGS" TV. COORDINATE EXACT LOCATION W/ MILLWORK INSTALLER & PFE PM PRIOR TO ROUGH-IN.
- 18 AUTOMATIC DOOR OVERRIDE BUTTON & J-BOX. WHEN BUTTON IS PRESSED, AUTOMATIC DOOR SHALL CLOSE. COORDINATE EXACT LOCATION W/ PFE PROJECT MANAGER. COORDINATE OPERATION W/ DOOR INSTALLER & LOW-VOLTAGE CONSULTANT PRIOR TO ROUGH-IN.
- 19 PET WASH POWER PANEL. BY OTHERS. PROVIDE DISCONNECT FOR PANEL. COORDINATE DISCONNECT SIZE W/ EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.



**1 POWER & SIGNAL PLAN**  
SCALE: 1/4" = 1'-0"

CLIENT

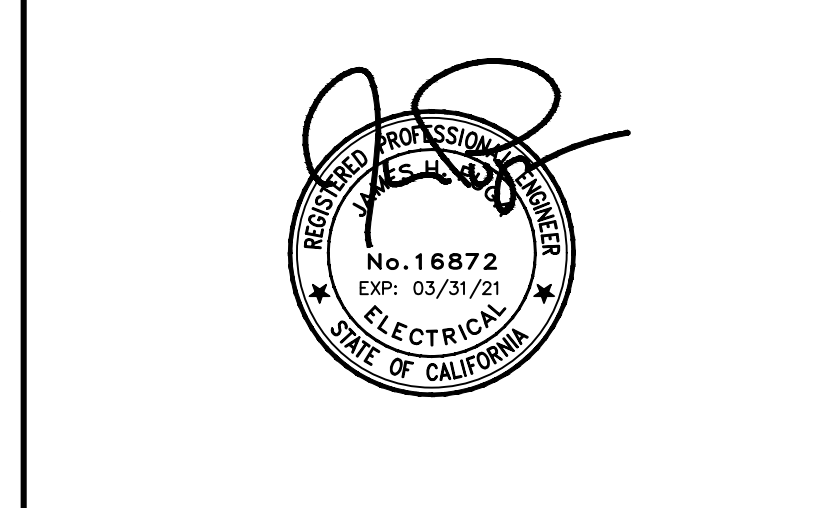


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**UNAUTHORIZED CHANGES**

CLIENT SHALL NOT PERMIT ANY PERSON RETAINED, HIRED, CONSULTED OR OTHERWISE ENGAGED BY CLIENT, INCLUDING BUT NOT LIMITED TO GENERAL CONTRACTORS, SUBCONTRACTORS, SUPPLIERS, ARCHITECTS, ENGINEERS OR OTHER DESIGN PROFESSIONALS, TO MAKE ANY CHANGE TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY PROJECT ARCHITECT WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT.

TO THE EXTENT ANY SUCH CHANGES ARE MADE WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT, CLIENT RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

TO THE EXTENT CLIENT ENTERS ANY CONTRACTS FOR CONSTRUCTION, SUPPLY, ARCHITECTURAL, ENGINEERING OR OTHER DESIGN SERVICES, SAID CONTRACTS SHALL SPECIFICALLY PROHIBIT THE OTHER PARTY FROM MAKING ANY CHANGE OR MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN CONSENT OF PROJECT ARCHITECT AND WHICH FURTHER RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

**ISSUE / REVISION**

NO.	DATE	REVISION NAME
4.19.19		PERMIT SET
6.10.19		CITY PLAN CHECK COMMENTS
9.13.19		BID

**PROJECT LOCATION**

PET FOOD EXPRESS  
4700 Freepoint Blvd Suite 12K-A  
Sacramento, CA 95822

**DRAWING TITLE**

POWER & SIGNAL PLAN

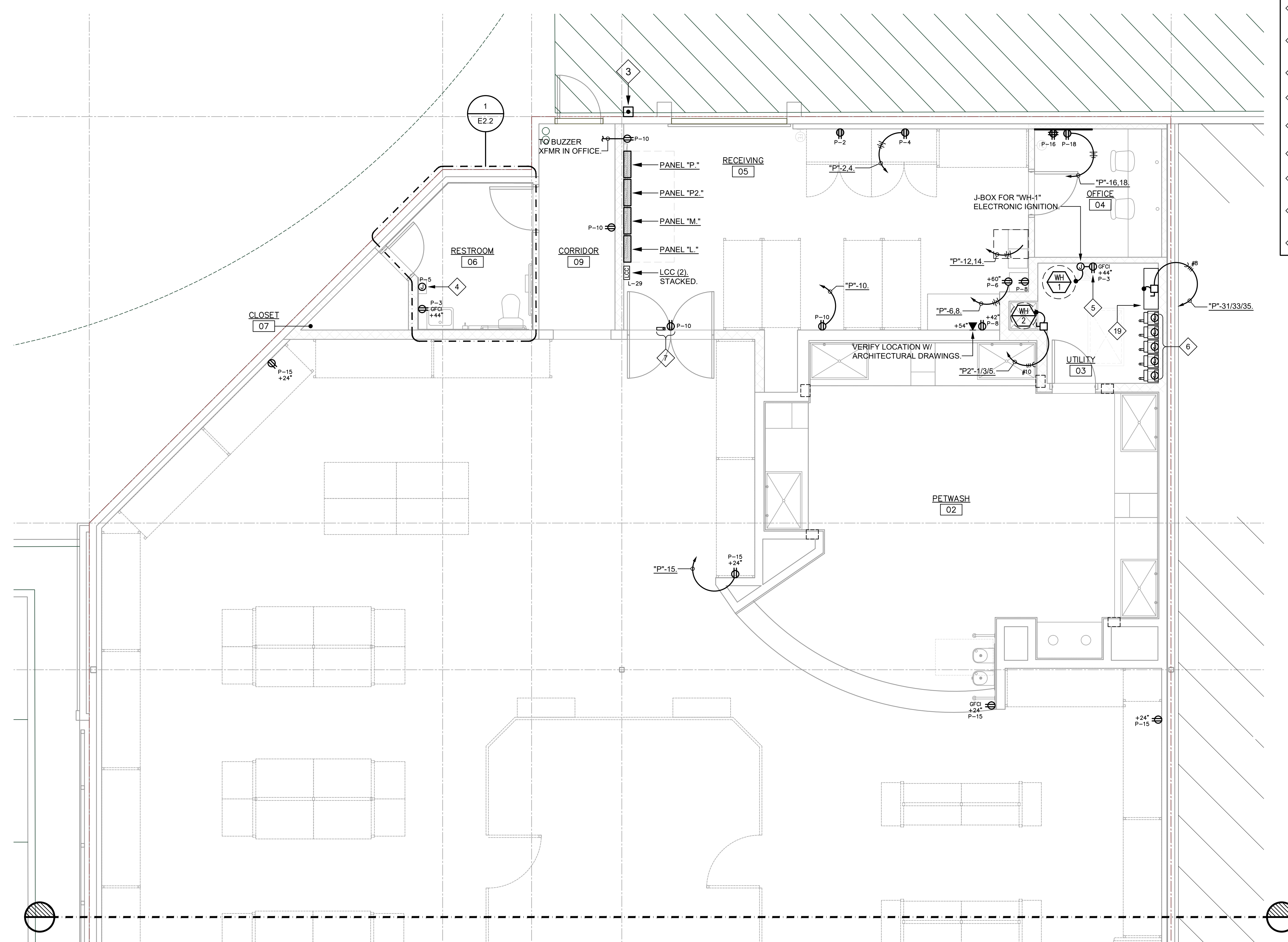
SCALE: AS NOTED  
PROJECT NUMBER: 19006  
SHEET NUMBER:

**E2.0**



**POWER NUMBERED NOTES:**

- 1 TELEPHONE BACKBOARD. 4'X8'X3/4" FIRE RESISTANT PLYWOOD, PAINTED WHITE. PROVIDE (1) # 6 CU GND & CONNECT TO PANEL "P." VERIFY EXACT LOCATION W/ PFE PROJECT MANAGER PRIOR TO ROUGH-IN.
- 2 FIRE ALARM CONTROL PANEL. DESIGN IS A DEFERRED SUBMITTAL. PROVIDE POWER & PHONE CONNECTION FOR PANEL. VERIFY LOCATIONS W/ PFE PROJECT MANAGER PRIOR TO ROUGH-IN.
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- 7 RECEPTACLE FOR ANNUNCIATOR POWER LOCATED IN STOCKROOM AT +72" A.F.F.
- 8 3/4" C. W/ BELDEN CABLE #8451 FROM TEMPERATURE PROBE TO ALARM PANEL IN MANAGER'S OFFICE.
- 9 NOT USED.
- 10 RECEPTACLE FOR PET RECIRCULATING DRINKING FOUNTAIN. COORDINATE EXACT LOCATION W/ PFE PM PRIOR TO ROUGH-IN.
- 11 RECEPTACLE SHALL BE RECESSED INTO WALL. PROVIDE W/ WP LOCKABLE COVER. VERIFY EXACT LOCATION W/ PFE PROJECT MANAGER PRIOR TO ROUGH-IN.
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- 13 RECEPTACLE LOCATED ABOVE CASHWRAP FOR ANNUNCIATOR & STORE WI-FI POWER.
- 14 PROVIDE RECEPTACLE FOR SCALE. COORDINATE EXACT LOCATION W/ MILLWORK INSTALLER & PFE PM PRIOR TO ROUGH-IN.
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- 19 PET WASH POWER PANEL, BY OTHERS. PROVIDE DISCONNECT FOR PANEL. COORDINATE DISCONNECT SIZE W/ EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.



**1 POWER & SIGNAL PLAN - CONT.**  
SCALE: 1/4" = 1'-0"

CLIENT

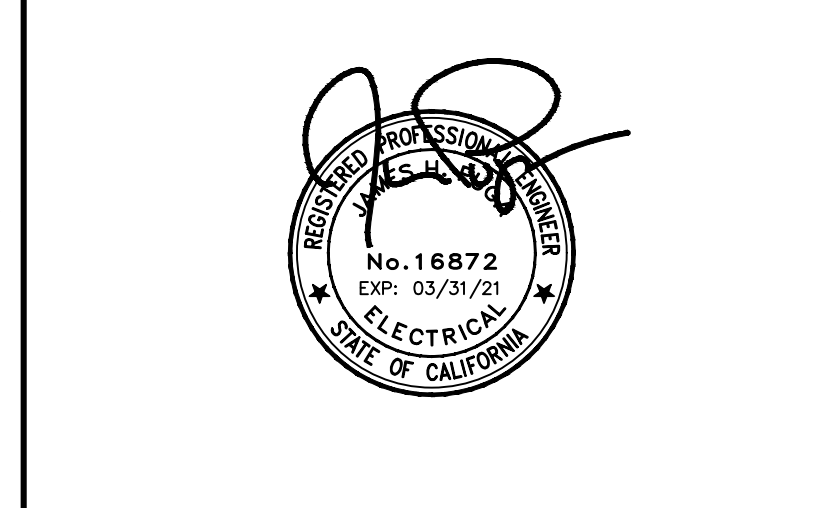


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9.13.19		BID

**PROJECT LOCATION**

PET FOOD EXPRESS  
4700 Freeport Blvd Suite 12K-A  
Sacramento, CA 95822

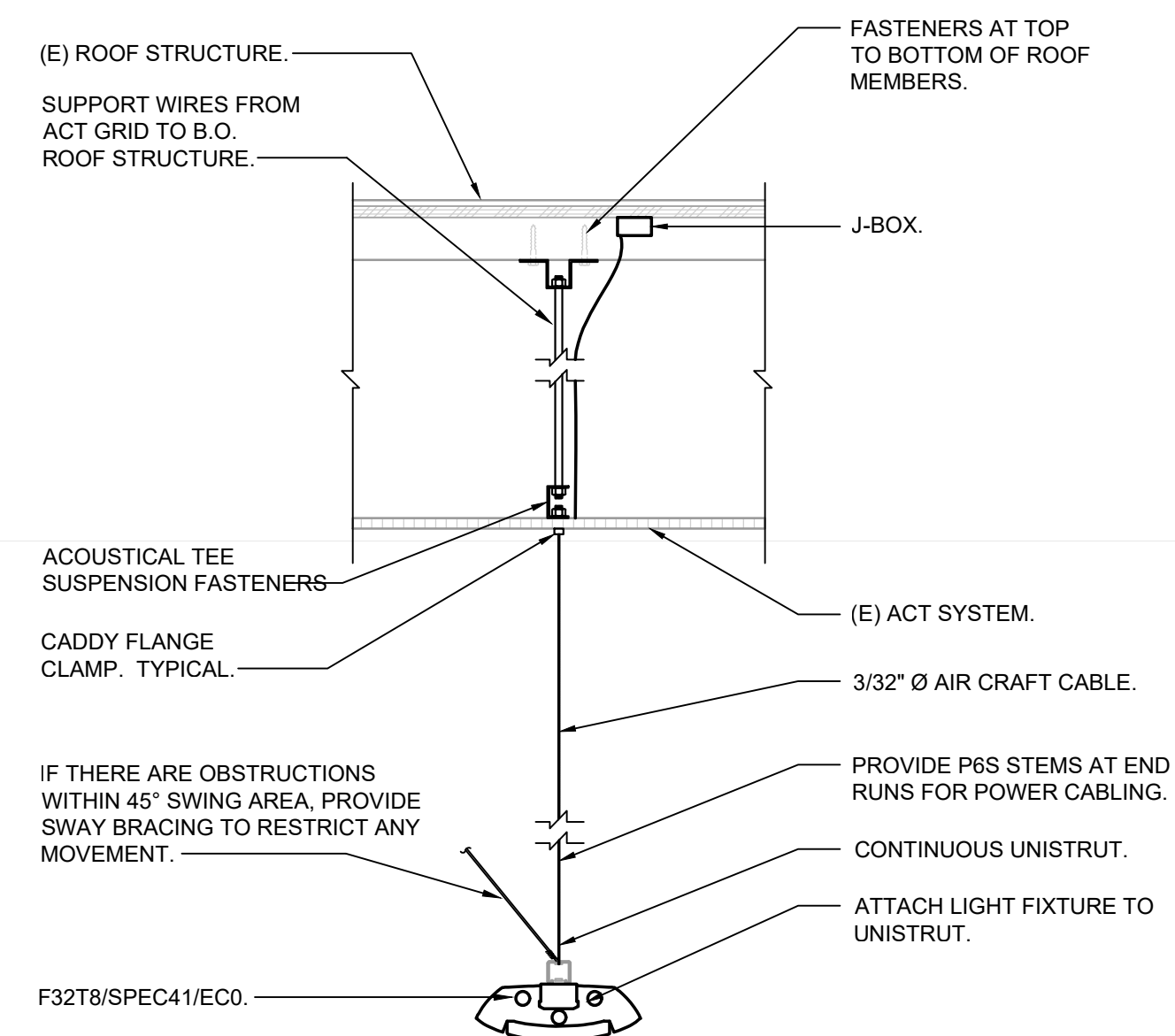
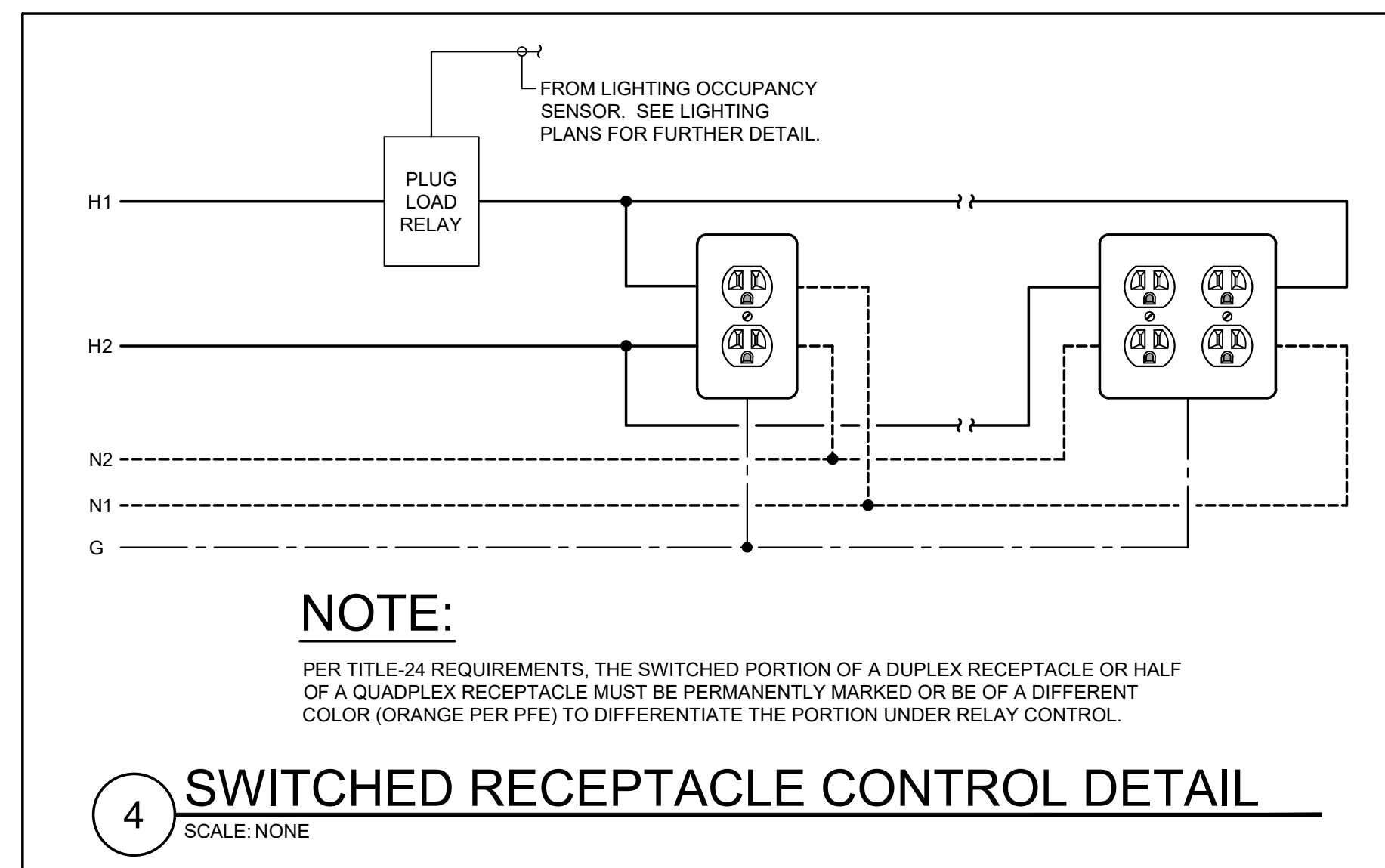
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POWER & SIGNAL PLAN - CONT

SCALE: AS NOTED  
PROJECT NUMBER: 19006  
SHEET NUMBER:

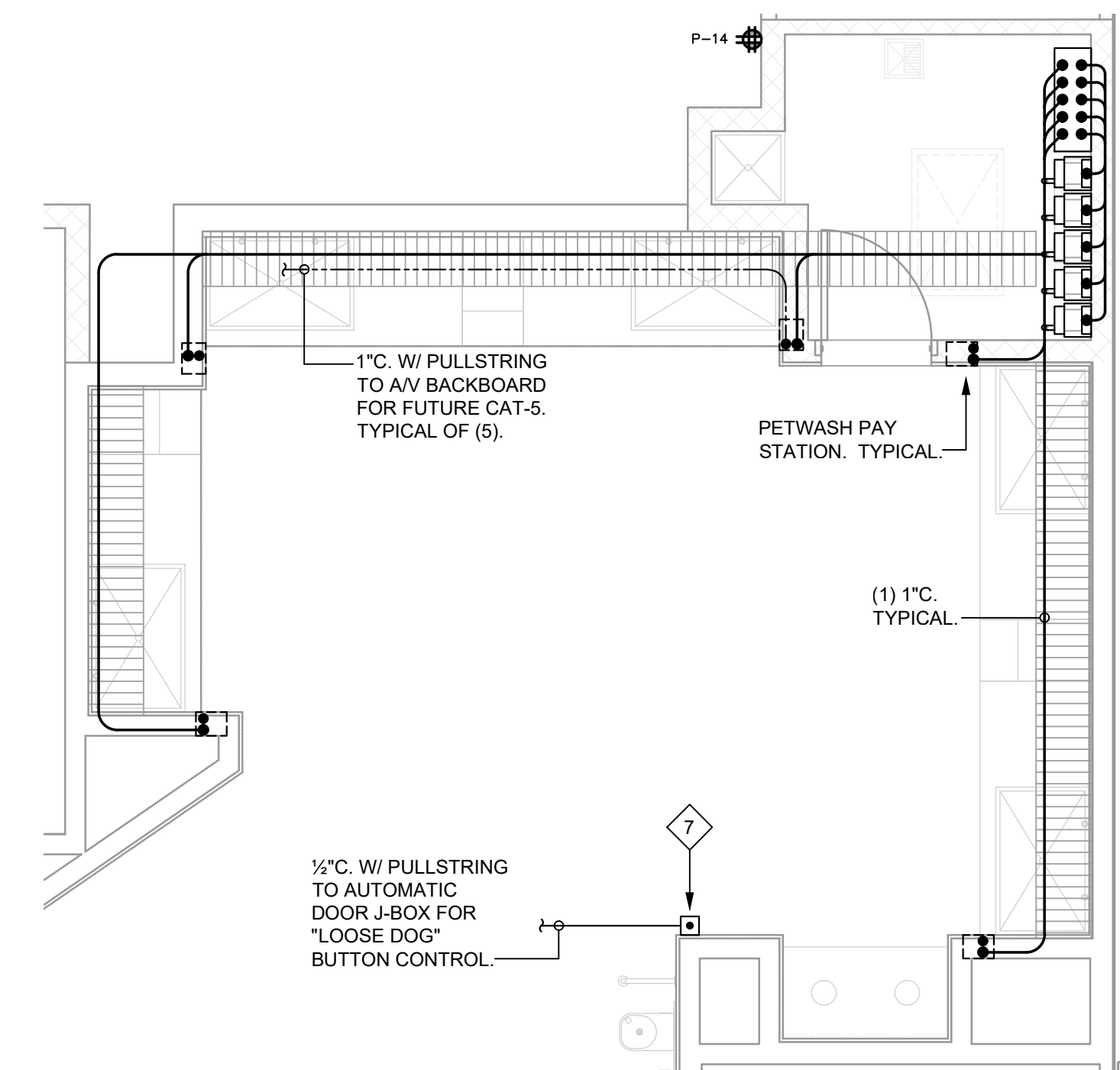
**E2.1**





**NUMBERED NOTES:**

- 1 J-BOX FOR FREEZER ALARM PANEL. COORDINATE EXACT LOCATION & REQUIREMENTS W/ FREEZER INSTALLER PRIOR TO ROUGH-IN.
- 2 J-BOX FOR SECURITY ALARM KEYPAD. VERIFY EXACT LOCATION W/ PFE PROJECT MANAGER & REQUIREMENTS W/ SECURITY INSTALLER PRIOR TO ROUGH-IN.
- 3 RECEPTACLE FOR MUZAK PLAYER. COORDINATE EXACT LOCATION & REQUIREMENTS W/ PFE PROJECT MANAGER PRIOR TO ROUGH-IN.
- 4 PROVIDE PLUG LOAD RELAY ABOVE CEILING WITH FIRE RATED ACCESS PANEL WHERE REQUIRED PER TITLE-24 REQUIREMENTS, TYPICAL.
- 5 PROVIDE SINGLE-GANG J-BOX W/ 1/2" EMPTY C. RUN TO TELEPHONE BACKBOARD FOR MUSIC CONNECTION. INSTALL PULL LINE. VERIFY EXACT LOCATION & REQUIREMENTS W/ PFE PROJECT MANAGER PRIOR TO ROUGH-IN.
- 6 OFFICE LAYOUT SUBJECT TO CHANGE. VERIFY OUTLET LOCATIONS W/ PFE PROJECT MANAGER PRIOR TO ROUGH-IN.
- 7 LOOSE DOG AUTOMATIC DOOR OVERRIDE BUTTON & J-BOX. WHEN BUTTON IS PRESSED, AUTOMATIC DOOR SHALL CLOSE. COORDINATE EXACT LOCATION W/ PFE PROJECT MANAGER. COORDINATE OPERATION W/ DOOR INSTALLER & LOW-VOLTAGE CONSULTANT PRIOR TO ROUGH-IN.

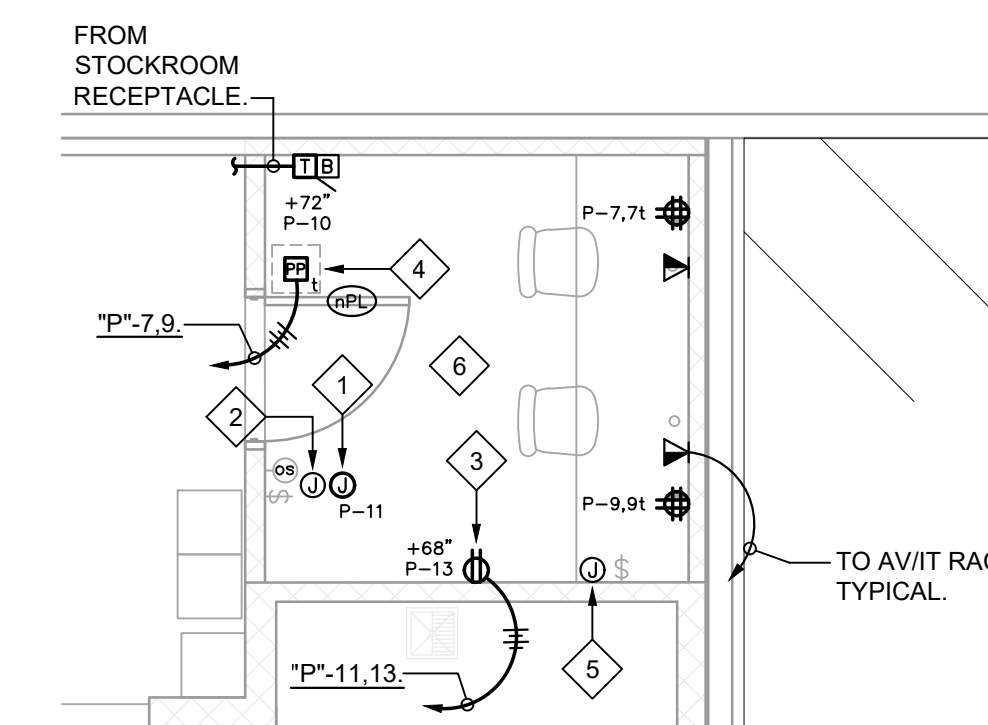


**PETWASH NOTES:**

1. EC TO PROVIDE & INSTALL ALL CONDUIT & WIRE FOR A COMPLETE & OPERATIONAL SYSTEM.
2. EC SHALL MAKE FINAL CONNECTIONS TO PETWASH EQUIPMENT WHERE REQUIRED.
3. USE ONLY STRANDED WIRE FOR CIRCUITS FROM "MCC" TO OTHER PETWASH EQUIPMENT.
4. LOW-VOLTAGE WIRING PROVIDED & INSTALLED BY OTHERS.
5. REFER TO PETWASH DRAWINGS FOR FURTHER REQUIREMENTS.
6. COORDINATE W/ EQUIPMENT INSTALLER, PRIOR TO ROUGH-IN, FOR FINAL LOCATION & REQUIREMENTS.

**1 OFFICE POWER & SIGNAL PLAN**

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



CLIENT

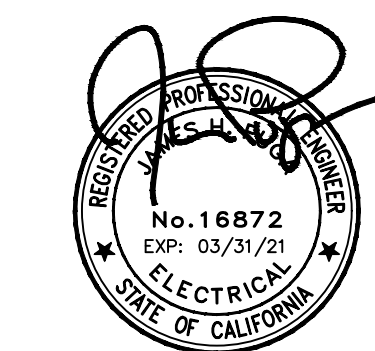


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T/F - 916.371.3202

**UNAUTHORIZED CHANGES**

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**PROJECT LOCATION**

PET FOOD EXPRESS  
4700 Freeport Blvd Suite 12K-A  
Sacramento, CA 95822

**DRAWING TITLE**

ELECTRICAL DETAILS

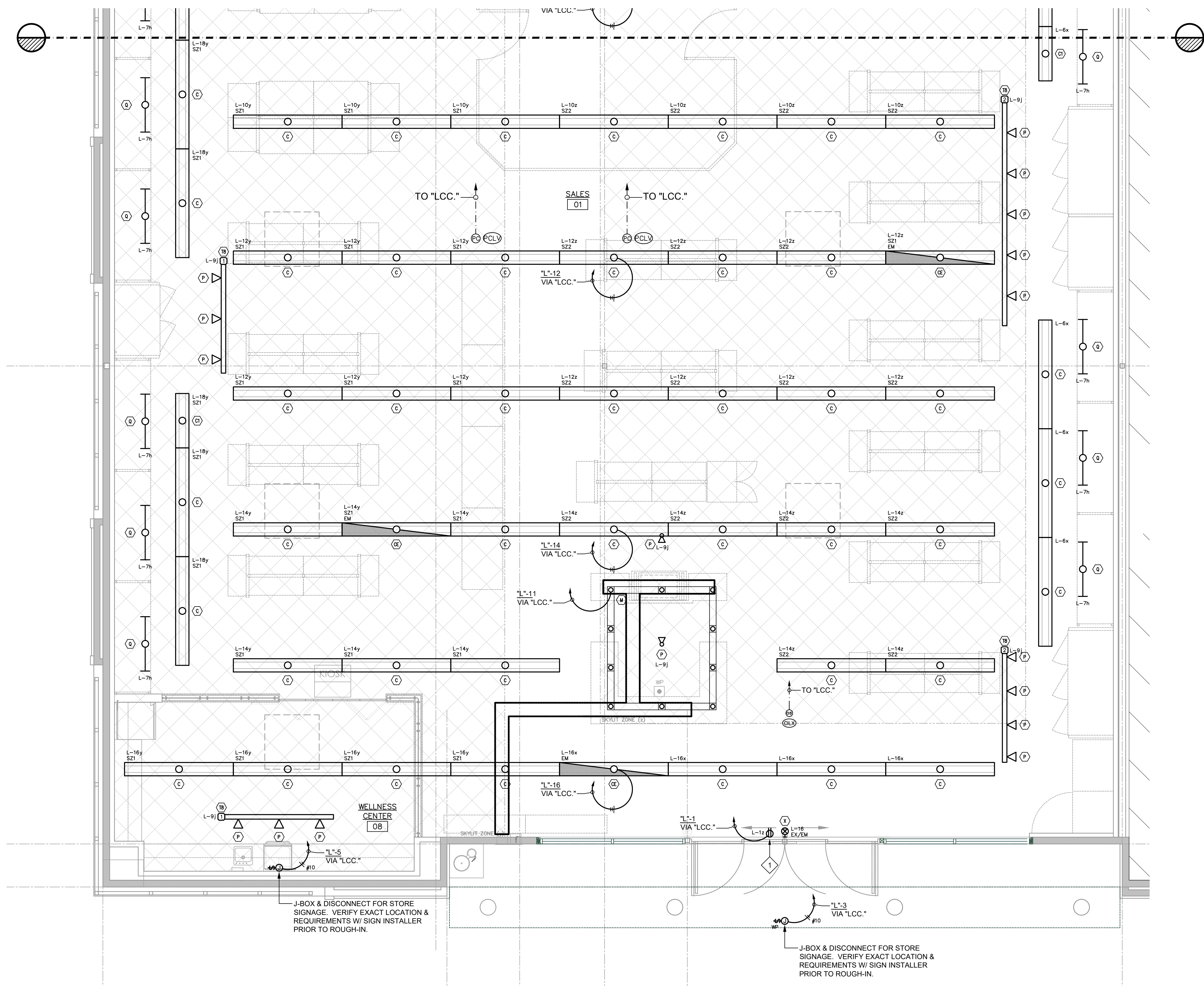
SCALE: AS NOTED  
PROJECT NUMBER: 19006  
SHEET NUMBER:

**E2.2**



**LIGHTING NUMBERED NOTES:**

- 1 WALL MOUNTED RECEPTACLE FOR "OPEN" SIGN. RECEPTACLE CONTROLLED BY TIMELOCK & OVERRIDE SWITCH IN MANAGER'S OFFICE. COORDINATE EXACT LOCATION WITH PFE PROJECT MANAGER PRIOR TO ROUGH-IN.
- 2 6-BUTTON CHELSEA DIGITAL SWITCH. PROVIDES ON/OFF/DIMMING FOR SWITCH LEGS INDICATED.
- 3 MANAGER'S OVERRIDE SWITCH FOR "OPEN" SIGN LOCATED AT FRONT OF STORE. VERIFY LOCATION W/ PFE PROJECT MANAGER PRIOR TO ROUGH-IN.



**1 LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"

CLIENT

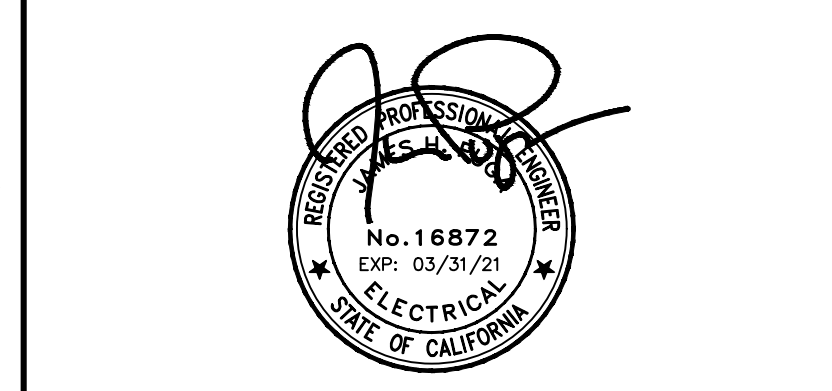


ARCHITECT



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REGISTRATION



CONSULTANT



UNAUTHORIZED CHANGES

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ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	PERMIT SET
⚠	6.10.19	CITY PLAN CHECK COMMENTS
	9.13.19	BID

PROJECT LOCATION

PET FOOD EXPRESS  
4700 Freepoint Blvd Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

LIGHTING PLAN

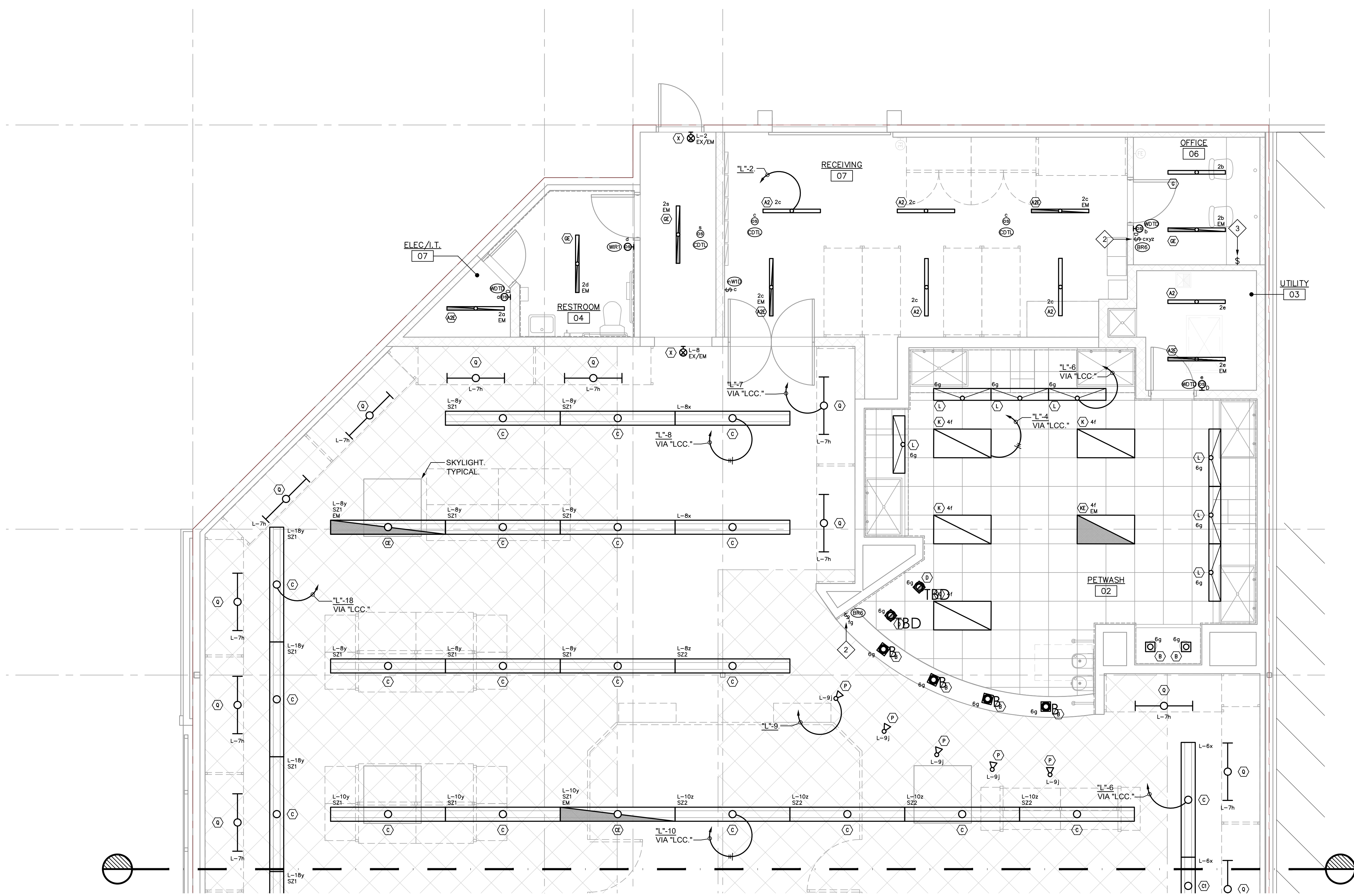
SCALE: AS NOTED  
PROJECT NUMBER: 19006  
SHEET NUMBER:

**E3.0**



**LIGHTING NUMBERED NOTES:**

- 1 WALL MOUNTED RECEPTACLE FOR "OPEN" SIGN. RECEPTACLE CONTROLLED BY TIMECLOCK & OVERRIDE SWITCH IN MANAGER'S OFFICE. COORDINATE EXACT LOCATION WITH PFE PROJECT MANAGER PRIOR TO ROUGH-IN.
- 2 6-BUTTON CHELSEA DIGITAL SWITCH. PROVIDES ON/OFF/DIMMING FOR SWITCH LEGS INDICATED.
- 3 MANAGER'S OVERRIDE SWITCH FOR "OPEN" SIGN LOCATED AT FRONT OF STORE. VERIFY LOCATION W/ PFE PROJECT MANAGER PRIOR TO ROUGH-IN.



1 LIGHTING PLAN - CONT  
SCALE: 1/4" = 1'-0"

CLIENT

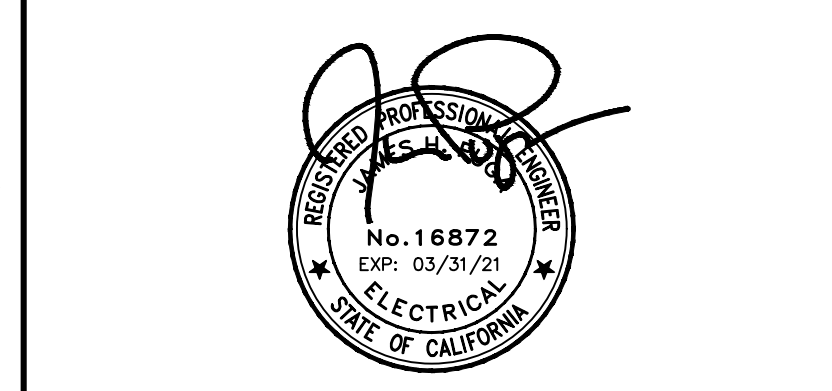


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PROJECT LOCATION

PET FOOD EXPRESS  
4700 Freepoint Blvd Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

LIGHTING PLAN - CONT

SCALE: AS NOTED  
PROJECT NUMBER: 19006  
SHEET NUMBER:

E3.1



LIGHTING CONTROL SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER	OPERATION	REMARKS
(BR6)	6-BUTTON DIGITAL CONTROL SWITCH.	LC & D # BR6-BWH-PWH	PROVIDES FOR MANUAL ON/OFF/RAISE/LOWER OF LIGHTING.	PROVIDE CAT 5 CONNECTIONS AND ALL REQUIRED PROGRAMMING
(WR1)	WALLBOX MOUNTED INFRARED LINE-VOLTAGE OCC. SENSOR W/ SINGLE TOGGLE SWITCH.	SENSOR SWITCH # WSX-WH	PROVIDES FOR MANUAL ON/AUTO OFF OF LIGHTING; 30 MINUTE MAXIMUM.	
(WDTD)	WALLBOX MOUNTED INFRARED LINE-VOLTAGE OCC. SENSOR W/ DIMMING CAPABILITY.	SENSOR SWITCH # WSX-PDT-D-VA-WH	PROVIDES MANUAL ON/AUTO OFF/DIMMING OF LUMINAIRES; 30 MINUTE MAXIMUM.	
(CDTL)	CEILING MOUNTED DUAL-TECH LINE VOLTAGE OCCUPANCY SENSOR.	SENSOR SWITCH # CMR PDT 9 WH	PROVIDES FOR AUTO ON/OFF OF LIGHTING, 30 MIN MAXIMUM	
(nW1D)	nLIGHT WALL MOUNTED SINGLE CHANNEL SWITCH WITH DIMMING CONTROL	SENSOR SWITCH - nLIGHT # nPODM-DX-WH	PROVIDES FOR ON/OFF AND DIMMING CONTROL OF LIGHTING	PROVIDE CAT 5 CONNECTIONS AND ALL REQUIRED PROGRAMMING
(nW2D)	nLIGHT WALL MOUNTED DUAL CHANNEL SWITCH WITH DIMMING CONTROL	SENSOR SWITCH - nLIGHT # nPODM-2P-DX-WH	PROVIDES FOR ON/OFF AND DIMMING CONTROL OF LIGHTING	PROVIDE CAT 5 CONNECTIONS AND ALL REQUIRED PROGRAMMING
(nW4D)	nLIGHT WALL MOUNTED FOUR CHANNEL SWITCH WITH DIMMING CONTROL	SENSOR SWITCH - nLIGHT # nPODM-4P-DX-WH	PROVIDES FOR ON/OFF AND DIMMING CONTROL OF LIGHTING	PROVIDE CAT 5 CONNECTIONS AND ALL REQUIRED PROGRAMMING
(nWDD)	nLIGHT WALL MOUNTED COMBO DUAL-TECH OCC SENSOR AND SINGLE CHANNEL DIM CONTROL	SENSOR SWITCH - nLIGHT # nWSX PDT LV	PROVIDES FOR ON/OFF, DIMMING AND AUTO SHUT-OFF OF LIGHTING	PROVIDE CAT 5 CONNECTIONS AND ALL REQUIRED PROGRAMMING
(nPL)	nLIGHT J-BOX MOUNTED PLUG LOAD RELAY POWER PACK	SENSOR SWITCH - nLIGHT # nPP20 -PL-T24	PROVIDES FOR PLUG LOAD SHUT-OFF AFTER VACANCY PER TITLE-24 REQUIREMENTS	PROVIDE CAT 5 CONNECTIONS AND ALL REQUIRED PROGRAMMING
(nPP)	nLIGHT J-BOX MOUNTED RELAY POWER PACK	SENSOR SWITCH - nLIGHT # nPP16	PROVIDES FOR nLIGHT BUS POWER AND ON/OFF OF LIGHTING	PROVIDE CAT 5 CONNECTIONS AND ALL REQUIRED PROGRAMMING
(nPPD)	nLIGHT J-BOX MOUNTED DIMMING RELAY POWER PACK	SENSOR SWITCH - nLIGHT # nPP16 D	PROVIDES FOR nLIGHT BUS POWER, ON/OFF AND LOW VOLTAGE DIMMING OF LIGHTING	PROVIDE CAT 5 CONNECTIONS AND ALL REQUIRED PROGRAMMING
(CIRL)	CEILING MOUNTED INFRARED LOW VOLTAGE OCCUPANCY SENSOR.	SENSOR SWITCH # CM 9 WH	PROVIDES FOR AUTO ON/OFF OF LIGHTING, 30 MIN MAXIMUM	PROVIDE LOW VOLTAGE CONNECTIONS TO LC&D BLUE-BOX SYSTEM
(CILX)	CEILING MOUNTED INFRARED EXTENDED RANGE LOW VOLTAGE OCC. SENSOR.	SENSOR SWITCH # CM 10 WH	PROVIDES FOR AUTO ON/OFF OF LIGHTING, 30 MIN MAXIMUM	PROVIDE LOW VOLTAGE CONNECTIONS TO LC&D BLUE-BOX SYSTEM
(nCWV)	nLIGHT CEILING MOUNTED INFRARED LOW VOLTAGE OCC. SENSOR.	SENSOR SWITCH - nLIGHT # nWV 16	PROVIDES FOR AUTO ON/OFF OF LIGHTING, 30 MIN MAXIMUM	PROVIDE LOW VOLTAGE CONNECTIONS TO LC&D BLUE-BOX SYSTEM
(PCLV)	CEILING MOUNTED LOW VOLTAGE DAYLIGHT HARVESTING DUAL ZONE INDOOR PHOTOCELL	SENSOR SWITCH # 3W1 ZT	PROVIDES FOR DAYLIGHT HARVESTING OF LIGHTING IN THE PRIMARY & SECONDARY ZONES	PROVIDE LOW VOLTAGE CONNECTIONS TO LC&D BLUE-BOX SYSTEM

LIGHTING FIXTURE SCHEDULE								
TAG	DESCRIPTION	MANUFACTURER	V	LAMPS	W	DIMMING	MOUNTING	REMARKS
(A2)	4' LED PENDANT FIXTURE.	METALUX # 4SNLED-LD4-27SL-LW-UNV-L840-CD1-U	120	LED	25	0-10V	CEILING PENDANT	PROVIDE W/ 0-10V DIMMING DRIVER.
(A2E)	SAME AS FIXTURE TYPE 'A2', EXCEPT W/ MINIMUM 90 MINUTE BATTERY BACKUP.	METALUX # 4SNLED-LD4-27SL-LW-UNV-EL14-L840-CD1-U	120	LED	25	0-10V	CEILING PENDANT	PROVIDE W/ 0-10V DIMMING DRIVER. MUST HAVE UNSWITCHED CIRCUIT.
(B)	6" APERTURE RECESSED LED DOWNLIGHT.	HALO # PD6-12-ED010-PDM6-830	120	LED	23	N/A	CEILING RECESSED	
(C)	8" HI-BAY FIXTURE. CABLE MOUNT W/ STEMS @ POWER FEEDS.	MOBERN LIGHTING # FHBR-96-LED-97-DMV-40	120	LED	97	0-10V	CEILING PENDANT	PROVIDE W/ 0-10V DIMMING DRIVER.
(CE)	SAME AS FIXTURE TYPE 'C', EXCEPT W/ MINIMUM 90 MINUTE BATTERY BACKUP.	MOBERN LIGHTING # FHBR-96-LED-97-DMV-40-EM	120	LED	97	0-10V	CEILING PENDANT	PROVIDE W/ 0-10V DIMMING DRIVER. INCLUDE CONSTANT HOT CIRCUIT.
(C1)	SAME AS FIXTURE TYPE 'C', EXCEPT 4' IN LENGTH.	MOBERN LIGHTING # FHBR-48-LED-48-DMV-40	120	LED	48	0-10V	CEILING PENDANT	PROVIDE W/ 0-10V DIMMING DRIVER.
(D)	4' APERTURE RECESSED LED DROP DOWN WALL WASHER.	ELCO LIGHTING # EL4-HSG / EL9730W	120	LED	13	N/A	CEILING RECESSED	
(G)	4' SURFACE MOUNTED LUMINAIRE.	METALUX # 4WSNLED-LD4-32SL-F-UNV-L840-CD1-U	120	LED	30	0-10V	CEILING SURFACE	
(GE)	SAME AS FIXTURE TYPE 'G', EXCEPT W/ MINIMUM 90 MINUTE BATTERY BACKUP.	METALUX # 4WSNLED-LD4-32SL-F-UNV-L840-CD1-U	120	LED	30	0-10V	CEILING SURFACE	
(K)	2' X 4' RECESSED VOLUMETRIC LUMINAIRE W/ FLANGE KIT.	MOBERN LIGHTING # RDIS-24-LED-30-DMV-40-(M565A24)	120	LED	30	0-10V	CEILING RECESSED	ORDER FLANGE KIT SEPARATELY. PROVIDE W/ 0-10V DIMMING DRIVER.
(KE)	SAME AS FIXTURE TYPE 'K', EXCEPT W/ MINIMUM 90 MINUTE EMERGENCY BACKUP.	MOBERN LIGHTING # RDIS-24-LED-30-DMV-40-EM-(M565A24)	120	LED	30	0-10V	CEILING RECESSED	
(L)	1' X 4' RECESSED FLUORESCENT WALL WASH FIXTURE.	ENGINEERED LIGHTING PRODUCTS # 444W1WW-AK-40K	120	LED	44	N/A	WALL RECESSED	
(M)	PENDANT MOUNTED LED FIXTURE.	ALW # LP9L-11' X 8' RECTANGLE-CZEN20-LED/DIM-10-120-BK	120	LED	300	N/A	CEILING PENDANT	
(P)	SURFACE MOUNTED / TRACK MOUNTED LINE VOLTAGE MONOPOINT.	INTENSE # MB-L4-41-DIM-W-32	120	LED	30	N/A	CEILING/ TRACK	
(Q)	4' STRIP LIGHT W/ WIREGUARD.	COOPER LIGHTING # 4SNLED-LD4-20SL-LW-UNV-L840-CD1-U	120	LED	16	N/A	RACK	ORDER WIREGUARD SEPARATELY.
(TB)	SINGLE CIRCUIT TRACK W/ CURRENT LIMITER.	T.B.D.	120	N/A	N/A	N/A	CEILING SURFACE	PROVIDE CURRENT LIMITER SIZES AS SHOWN.
(X)	UNIVERSAL MOUNT EXIT SIGN W/ MINIMUM 90 MINUTE BATTERY BACKUP.	BRILLIANT LIGHTING #KAU-2-G-W-W-EM	120	LED	5	N/A	VARIES	MUST BE ON UNSWITCHED CIRCUIT.

EMERGENCY FIXTURES TO BE PROVIDED W/ 1400 LUMEN BATTERY PACK.

CLIENT

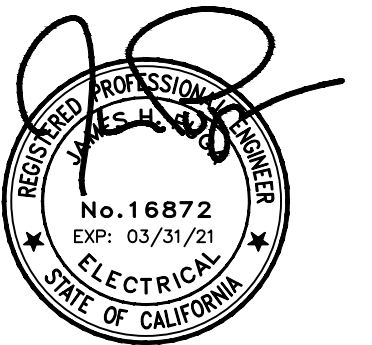


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	9.13.19	BID

PROJECT LOCATION

PET FOOD EXPRESS  
4700 Freeport Blvd Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

LIGHT FIXTURE & CONTROL SCHEDULES

SCALE: AS NOTED

PROJECT NUMBER: 19006

SHEET NUMBER:

E3.2



Updated 5.13.15  
**GUIDELINES FOR SETTING LIGHTING CONTROLS:**

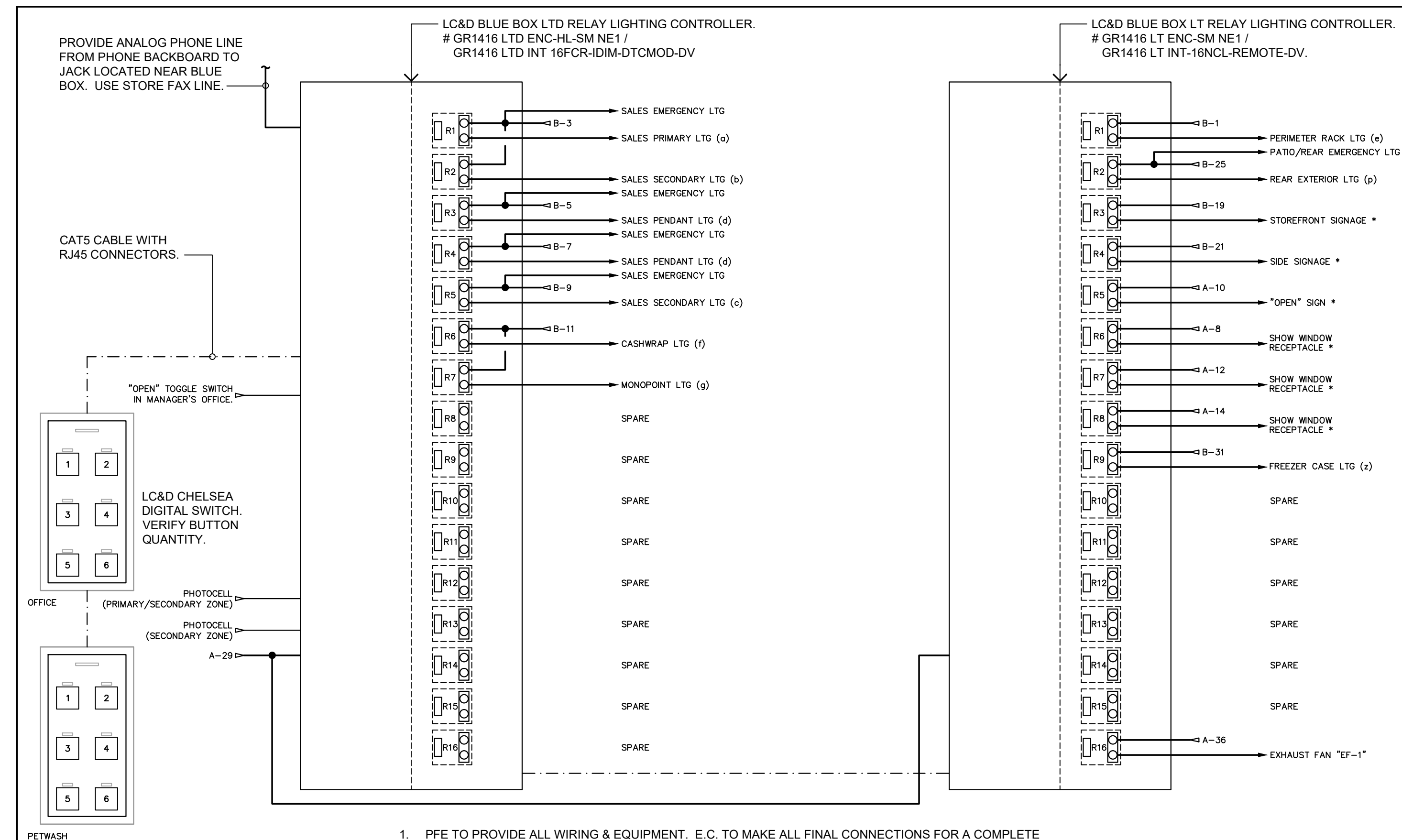
Store Hours:	Open	Close
Monday through Friday:	9:30 AM	8:30 PM
Saturday Hours:	9:00 AM	8:30 PM
Sunday Hours:	10:00 AM	6:00 PM

Holidays Closed:	Zones 1 & 2 Remain off.
January 1st	New Years Day
July 4th	Independence Day
4th Thursday in November	Thanksgiving
December 25th	Christmas

Zones:	Requirements:	Notes:
<b>Zone One: (Store Open - All Lights on)</b>	Zone One lights to go on 5 minutes before store opening time and off 5 minutes after store closing time.	Zone One 2 hour By Pass Switch locate switch in Manager's office.
<b>Lights on Zone One:</b>		
All Strip Lighting behind My Mutt frames		
All Spot Lighting		
Pet Wash Entry Can lights		
50% of General Sales Floor Lighting		
Illuminated Open Sign:		Bypass Switch in Manager's office
AND: All Zone Two lights		
<b>Zone Two: (Store Stocking Level - 50% of Sales floor lights are on)</b>	Zone Two lights to go on 1 hour before store opening time and off 1 hour after store closing time.	These lights should be on the Bypass Switch.
<b>Lights on Zone Two:</b>		
50% of General Sales floor Lighting:		
Backroom lights:		
Suspended Cashwrap lights:		
General Pet Wash lights:		
<b>Zone 3 (Designated Night lights)</b>	<b>Zone 3 Night lights Remain on 24/7</b>	

LIGHTING CONTROLLER						CONTROL TYPE				
NAME: MASTER		NUMBER: LCC1		LOCATION: UTILITY ROOM						
VOLTAGE: 120V		MANUFACTURER: LC&D		MODEL #: GR1416 LTD ENC-HL-SM NE1 / GR1416 LTD INT 16FCR-IDIM-DTCMOD-DV						
POWER CIRCUIT: A-29		RELAY CONTROL CIRCUIT: A-29								
PANEL - CIRCUIT #	RELAY #	SWITCH LEG	LIGHTING LOAD	CONTROL ZONE	NOTES	DIMMER	TOGGLE	TIMECLOCK	PHOTOCELL	OCC SENSOR
B-3	01	-	SALES PRIMARY LTG	Z2		X				
B-3	02	-	SALES SECONDARY LTG	Z2		X				
B-5	03	-	SALES PENDANT LTG	Z2		X				
B-7	04	-	SALES PENDANT LTG	Z2		X				
B-9	05	-	SALES SECONDARY LTG	Z2		X				
B-11	06	-	CASHWRAP LTG	Z1		X				X
B-11	07	-	MONOPOINT LTG	Z1		X				X
SPARE	08									
SPARE	09									
SPARE	10									
SPARE	11									
SPARE	12									
SPARE	13									
SPARE	14									
SPARE	15									
SPARE	16									

LIGHTING CONTROLLER						CONTROL TYPE				
NAME: REMOTE		NUMBER: LCC2		LOCATION: UTILITY ROOM						
VOLTAGE: 120V		MANUFACTURER: LC&D		MODEL #: GR1416 LT ENC-SM NE1 / GR1416 LT INT 16NCL-REMOTE-DV						
POWER CIRCUIT: A-29		RELAY CONTROL CIRCUIT: A-29								
PANEL - CIRCUIT #	RELAY #	SWITCH LEG	LIGHTING LOAD	CONTROL ZONE	NOTES	DIMMER	TOGGLE	TIMECLOCK	PHOTOCELL	OCC SENSOR
B-1	01	-	PERIMETER RACK LTG	Z1					X	
B-25	02	-	REAR EXTERIOR LTG	Z1					X	
B-19	03	-	STOREFRONT SIGNAGE	Z3					X	
B-21	04	-	SIDE SIGNAGE	Z3					X	
A-10	05	-	"OPEN" SIGN	Z1					X	
A-8	06	-	SHOW WINDOW RECS	Z1					X	
A-12	07	-	SHOW WINDOW RECS	Z1					X	
A-14	08	-	SHOW WINDOW RECS	Z1					X	
B-31	09	-	FREEZER CASE LTG	Z1					X	
SPARE	10									
SPARE	11									
SPARE	12									
SPARE	13									
SPARE	14									
SPARE	15									
A-36	16	-	EXHAUST FAN "EF-1"	N/A						X



- PFE TO PROVIDE ALL WIRING & EQUIPMENT. E.G. TO MAKE ALL FINAL CONNECTIONS FOR A COMPLETE & OPERATIONAL LIGHTING CONTROL SYSTEM PER STATE ENERGY CODE REQUIREMENTS.
- VERIFY W/ PFE PM THAT TIME SCHEDULE SHOWN IS UP-TO-DATE.
- LC&D WILL REMOTELY PROGRAM DEVICE.
- ENSURE THAT SYSTEM IS PROGRAMMED TO ALLOW FOR 2-HOUR OVERRIDE BETWEEN STORE CLOSING & OPENING HOURS.

**1 LIGHTING CONTROL DIAGRAM**  
 SCALE: NONE

CLIENT

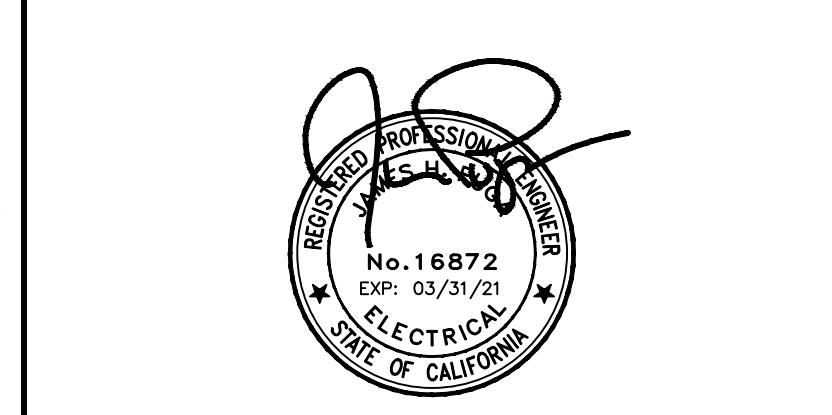


ARCHITECT

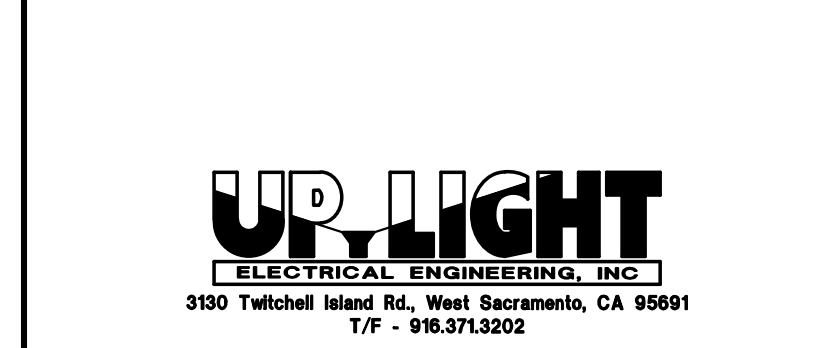


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REGISTRATION



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PROJECT LOCATION

PET FOOD EXPRESS  
 4700 Freeport Blvd Suite 12K-A  
 Sacramento, CA 95822

DRAWING TITLE

**LIGHTING CONTROL DIAGRAM & TIME SCHEDULE**

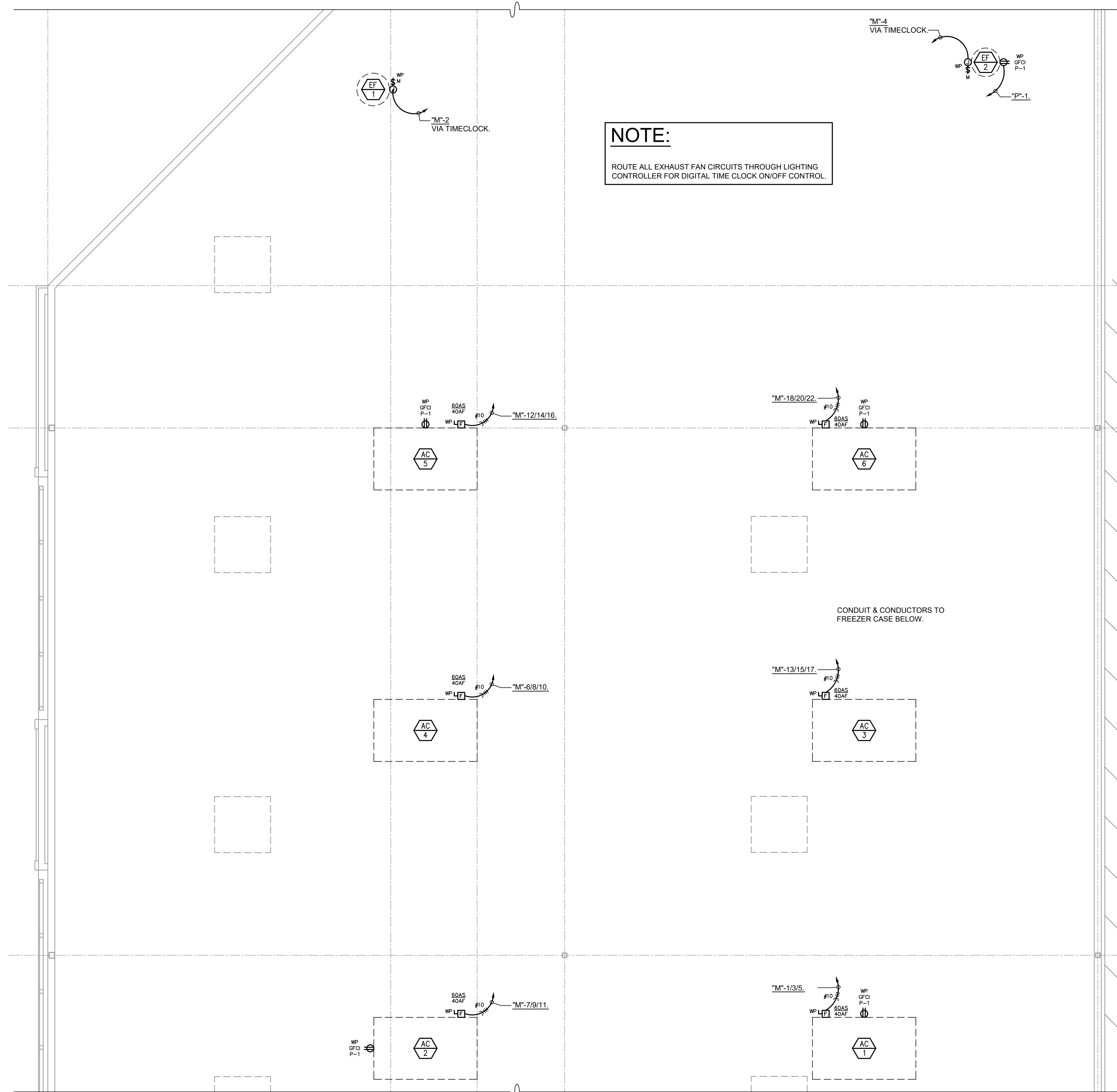
SCALE: AS NOTED  
 PROJECT NUMBER: 19006  
 SHEET NUMBER:

**E3.3**



## MECHANICAL GENERAL NOTES

- REFER TO MECHANICAL DRAWINGS FOR EXACT HVAC EQUIPMENT LOCATIONS & SPECIFICATIONS. VERIFY EQUIPMENT WIRE SIZE, CONDUIT SIZES, CIRCUIT BREAKER & DISCONNECT SIZES W/ MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF ELECTRICAL.
- E.C. SHALL PROVIDE ROOF JACKS FOR POWER & 1/2" CONTROL CONDUITS TO ROOF MOUNTED HVAC EQUIPMENT. PROVIDE CONTROL CONDUIT FROM EACH UNIT TO THERMOSTAT LOCATIONS. SEE MECHANICAL DRAWINGS FOR THERMOSTAT LOCATIONS.
- ALL CONNECTIONS TO HVAC EQUIPMENT SHALL BE MADE W/ COPPER CONDUCTORS ONLY. SIZE CONDUCTORS PER UNIT NAMEPLATE SPECIFICATIONS. VERIFY PRIOR TO INSTALLATION OF CONDUCTORS.
- ALL DISCONNECT SWITCHES SHALL BE FUSIBLE NEMA 3R, SIZED AS REQUIRED. ALL HVAC UNITS SHALL BE FUSED PER EQUIPMENT NAMEPLATE SPECIFICATIONS. E.C. SHALL VERIFY DISCONNECT & FUSE SIZING W/ MECHANICAL CONTRACTOR PRIOR TO ORDERING MATERIALS.
- ALL FUSES FOR THIS PROJECT SHALL BE BUSSMAN CLASS RKS DUAL ELEMENT CURRENT LIMITING W/ AMPERAGES AS INDICATED OR REQUIRED.
- NO CONDUIT SHALL BE RUN ON ROOF. APPROPRIATE ROOF JACKS SHALL BE PROVIDED FOR ALL ROOF PENETRATIONS. COORDINATE W/ MECHANICAL CONTRACTOR AT JOBSITE. ENTER UNITS WITHIN ROOF CURBS WHERE POSSIBLE. E.C. SHALL BE RESPONSIBLE FOR CORRECTLY LOCATING ROOF PENETRATIONS.
- LOCATE NEMA 3R, GFCI ROOF RECEPTACLES SO THAT NO MECHANICAL UNIT IS FURTHER THAN 25' FROM A RECEPTACLE. PROVIDE ALL NECESSARY HARDWARE FOR RECEPTACLE OUTLET SUPPORT.
- REFER TO MECHANICAL DRAWINGS FOR CONTROL WIRING. E.C. SHALL PROVIDE CONDUIT & ROOF PENETRATIONS FOR CONTROL WIRING AS REQUIRED. COORDINATE W/ MECHANICAL CONTRACTOR AT JOBSITE.
- FIRE SEAL ALL FIRE WALL PENETRATIONS FOR CONDUITS W/ AN APPROVED FIRE SEALANT AFTER CONDUIT INSTALLATION. FIRE SEAL SHALL PROVIDE EQUAL FIRE RATING AS WALL.



**NOTE:**  
ROUTE ALL EXHAUST FAN CIRCUITS THROUGH LIGHTING CONTROLLER FOR DIGITAL TIME CLOCK ON/OFF CONTROL.

**1 ROOF POWER PLAN**  
SCALE: 3/16" = 1'-0"

CLIENT

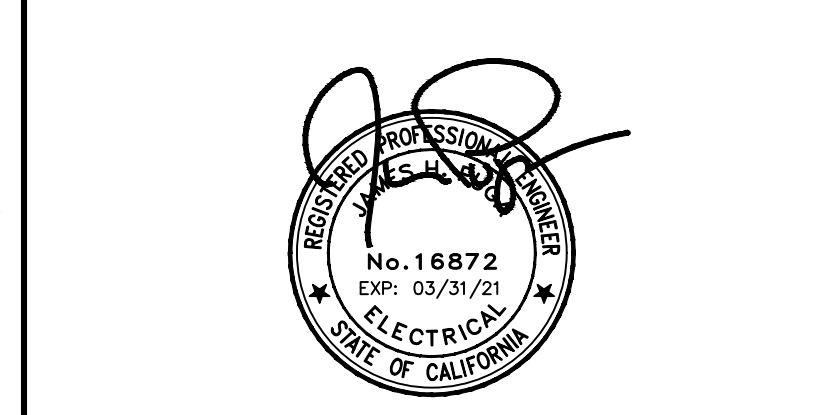


ARCHITECT



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REGISTRATION



CONSULTANT



UNAUTHORIZED CHANGES

CLIENT SHALL NOT PERMIT ANY PERSON RETAINED, HIRED, CONSULTED OR OTHERWISE ENGAGED BY CLIENT, INCLUDING BUT NOT LIMITED TO GENERAL CONTRACTORS, SUBCONTRACTORS, SUPPLIERS, ARCHITECTS, ENGINEERS OR OTHER DESIGN PROFESSIONALS TO MAKE ANY CHANGE TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY PROJECT ARCHITECT WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT.  
TO THE EXTENT ANY SUCH CHANGES ARE MADE WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT, CLIENT RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.  
TO THE EXTENT CLIENT ENTERS ANY CONTRACTS FOR CONSTRUCTION, SUPPLY, ARCHITECTURAL, ENGINEERING OR OTHER DESIGN SERVICES, SAID CONTRACTS SHALL SPECIFICALLY PROHIBIT THE OTHER PARTY FROM MAKING ANY CHANGE OR MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN CONSENT OF PROJECT ARCHITECT AND WHICH FURTHER RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	PERMIT SET
⚠	6.10.19	CITY PLAN CHECK COMMENTS
	9.13.19	BID

PROJECT LOCATION

PET FOOD EXPRESS  
4700 Freeport Blvd Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

ROOF POWER PLAN

SCALE: AS NOTED  
PROJECT NUMBER: 19006  
SHEET NUMBER:

**E4.0**



SECTION 16000  
ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.01 REFER TO THE GENERAL CONDITIONS AND DIVISION 01000, GENERAL REQUIREMENTS. ALL PROVISIONS SPECIFIED THEREIN APPLY TO THE WORK UNDER THIS SECTION.

1.02 DESCRIPTION OF WORK:

A. FURNISH ALL LABOR, MATERIALS, APPARATUS, TOOLS, EQUIPMENT, TRANSPORTATION, TEMPORARY CONSTRUCTION AND SPECIAL OR OCCASIONAL SERVICES AS REQUIRED TO MAKE A COMPLETE WORKING ELECTRICAL INSTALLATION, AS SHOWN ON THE DRAWINGS OR DESCRIBED IN THESE SPECIFICATIONS. THE WORK SHALL INCLUDE MATERIALS, APPLIANCES AND APPARATUS NOT SPECIFICALLY MENTIONED HEREIN OR NOTED ON THE DRAWINGS AS REQUIRED TO COMPLETE THE INSTALLATION.

B. WORK INCLUDED:

- INTERIOR LIGHTING FIXTURES.
- LIGHTING BRANCH CIRCUITRY.
- LIGHTING CONTROL.
- POWER DEVICES AND POWER BRANCH CIRCUITRY.
- RACEWAYS FOR DATA AND TELEPHONE.
- DEMOLITION.
- COMPLIANCE WITH ALL APPLICABLE CODES.
- TESTING.
- "AS-BUILT" DRAWINGS.
- ELECTRICAL PERMIT.

C. WORK INCLUDED BUT SPECIFIED UNDER OTHER SECTIONS:

- CONSULT ALL OTHER SECTIONS, DETERMINE THE EXTENT AND CHARACTER OF RELATED WORK AND PROPERLY COORDINATE WORK SPECIFIED HEREIN WITH THAT SPECIFIED ELSEWHERE TO PRODUCE A COMPLETE, FINISHED AND WORKMANLIKE INSTALLATION.
- MISCELLANEOUS METAL WORK: INCLUDE FITTINGS, BRACKETS, SUPPORTS, RODS, WELDING AND PIPE AS REQUIRED FOR SUPPORT AND BRACING OF RACEWAYS, LUMINAIRES, AND OTHER ELECTRICAL EQUIPMENT.
- WORK FURNISHED AND INSTALLED UNDER ANOTHER SECTION REQUIRING CONNECTIONS UNDER THIS SECTION: THE FOLLOWING ITEMS ARE FURNISHED AND INSTALLED UNDER OTHER SECTIONS: PROVIDE ELECTRICAL SERVICE, MAKE REQUISITE CONNECTIONS AND PERFORM OPERATIONAL TEST ONLY.
  - HVAC EQUIPMENT.

1.03 DEFINITIONS:

A. CONTRACTOR: ELECTRICAL CONTRACTOR.

B. FURNISH: PURCHASE & DELIVER TO JOBSITE IN NEW CONDITION.

C. HVAC: HEATING, VENTILATING & AIR-CONDITIONING.

D. INSTALL: RECEIVE & STORE UNTIL REQUIRED; PLACE, SECURE & CONNECT; PROVIDE APPURTENANCES.

E. PROVIDE: FURNISH AND INSTALL AS DEFINED ABOVE.

F. SECTION: REFERS TO A SECTION OF THESE SPECIFICATIONS.

1.04 REQUIREMENTS, CODES AND STANDARDS:

A. WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF ALL GOVERNING CODES, RULES, AND REGULATIONS INCLUDING THE FOLLOWING MINIMUM STANDARDS, WHETHER STATUTORY OR NOT.

B. CALIFORNIA ELECTRICAL CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3) CURRENTLY IN EFFECT WITH THE BUILDING DEPARTMENT.

C. CALIFORNIA BUILDING CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, VOLUMES 1 AND 2) CURRENTLY IN EFFECT WITH THE BUILDING DEPARTMENT.

D. EQUIPMENT AND MATERIALS SPECIFIED UNDER THIS DIVISION SHALL CONFORM TO THE FOLLOWING STANDARDS WHERE APPLICABLE:

UL UNDERWRITER'S LABORATORIES  
 ASTM AMERICAN SOCIETY FOR TESTING MATERIALS  
 CBM CERTIFIED BALLAST MANUFACTURERS  
 NEMA NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION  
 ANSI AMERICAN NATIONAL STANDARDS INSTITUTE  
 ETL ELECTRICAL TESTING LABORATORIES

ALL ELECTRICAL APPARATUS FURNISHED UNDER THIS SECTION SHALL CONFORM TO NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION (NEMA) STANDARDS AND SHALL BEAR THE UNDERWRITERS' LABORATORIES (UL) LABEL WHERE SUCH LABEL IS APPLICABLE.

1.05 SPECIFICATIONS AND DRAWINGS:

A. PROVIDE ALL MATERIALS AND SYSTEMS INDICATED IN THE SPECIFICATIONS AND DRAWINGS.

B. DRAWINGS ARE GENERALLY DIAGRAMMATIC EXCEPT WHERE INDICATED OTHERWISE. MAKE ADJUSTMENTS THAT MAY BE NECESSARY OR REQUESTED IN ORDER TO RESOLVE SPACE PROBLEMS, PRESERVE HEADROOM, AND AVOID ARCHITECTURAL OPENINGS, STRUCTURAL MEMBERS AND WORK OF OTHER TRADES.

C. USE ARCHITECTURAL DRAWINGS TO VERIFY EXACT LOCATIONS OF DOORS, DOOR SWINGS, LIGHTING FIXTURES AND SIMILAR ITEMS.

D. VERIFY IN FIELD CONDITIONS INDICATED "EXISTING."

E. IF ANY PART OF THESE SPECIFICATIONS OR DRAWINGS APPEAR UNCLEAR OR CONTRADICTIONARY, APPLY TO THE OWNER'S REPRESENTATIVE FOR AN INTERPRETATION AND DECISION AS EARLY AS POSSIBLE, INCLUDING DURING THE BIDDING PERIOD. DO NOT PROCEED WITH WORK WITHOUT THE DECISION OF THE OWNER'S REPRESENTATIVE.

F. BRANCH CIRCUIT "HOME RUNS" ARE GENERALLY INDICATED BY ARROW, CONTINUE ALL CIRCUITS TO RESPECTIVE TERMINAL AS IF ROUTING WAS SHOWN IN ITS ENTIRETY.

G. DRAWINGS AND/OR SPECIFICATION SHALL TAKE PRECEDENCE WHEN WORK AND MATERIAL CALLED FOR EXCEED CODE REQUIREMENTS.

1.06 FEES AND PERMITS: PROCURE AND PAY FOR ALL REQUIRED PERMITS AND LICENSES CONNECTED WITH WORK UNDER THIS SECTION.

1.07 SUBMITTALS: WITHIN 30 CALENDAR DAYS AFTER AWARD OF THE CONTRACT, AND BEFORE FABRICATION AND INSTALLATION OF ANY MATERIAL, SUBMIT, FOR APPROVAL, SIX (6) COPIES, NEATLY BOUND IN AN 8-1/2" X 11" FORMAT, OF CATALOG INFORMATION OR SHOP DRAWINGS FOR THE FOLLOWING ITEMS:

A. LUMINAIRES.

B. LIGHTING CONTROL DEVICES.

C. PANELBOARDS.

D. WIRING DEVICES.

1.08 SUBSTITUTIONS:

A. THE MANUFACTURER'S EQUIPMENT DESCRIBED ON THE DRAWINGS AND LISTED FIRST IN THE SPECIFICATION IS THE BASIS OF THE DESIGN. WHERE MANUFACTURERS OF GENERALLY COMPARABLE PRODUCTS ARE LISTED, THESE ARE SUBSTITUTE ITEMS SUBJECT TO PROOF OF ACCEPTABILITY.

B. NO RESUBMITTAL OF SUBSTITUTE ITEMS IS ALLOWED. IF A SUBSTITUTE ITEM IS REJECTED, THE CONTRACTOR SHALL PROVIDE THE SPECIFIED ITEM.

1.09 SUPERVISION: THE CONTRACTOR SHALL PERSONALLY OR THROUGH AN AUTHORIZED AND COMPETENT REPRESENTATIVE CONSTANTLY SUPERVISE THE WORK FROM BEGINNING TO COMPLETION AND, WITHIN REASON, KEEP THE SAME WORKMEN AND FOREMAN ON THE PROJECT THROUGHOUT THE PROJECT DURATION.

1.10 PROJECT RECORD DRAWINGS AND EQUIPMENT MANUALS:

A. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING THE EXACT LOCATION OF CONDUITS, LUMINAIRES, BOXES, ETC.

B. PREPARE COMPLETE RECORD DRAWINGS SHOWING ACTUAL INSTALLED LOCATIONS AND SIZES OF FEEDER CONDUITS, PULL AND SWITCH BOXES, BRANCH CIRCUIT CONDUITS, TELEPHONE CONDUITS AND BOXES, EQUIPMENT, FIXTURES, DEVICES, BRANCH CIRCUITS AND EMPTY CONDUIT RUNS AND A COMPLETE AND ACCURATE SINGLE-LINE DIAGRAM OF THE ELECTRICAL WORK AS INSTALLED.

C. PROJECT RECORD DRAWINGS SHALL BE PREPARED IN ELECTRONIC FORMAT (AUTOCAD R2007 OR LATER). SUBMIT ONE PLOTTED FULL-SIZE COPY AND ONE COMPACT DISC WITH ALL ELECTRONIC FILES INCLUDED ON IT.

1.11 SAFETY AND INDEMNITY:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MAINTAINING AND SUPERVISING ALL NECESSARY SAFETY PRECAUTIONS WHICH WILL INSURE AGAINST INJURY TO PERSONS OR DAMAGE TO PROPERTY AS A RESULT OF ANY OF HIS WORK, TOOLS OR EQUIPMENT ON OR OFF THE PROJECT, BEFORE, DURING OR AFTER NORMAL WORKING HOURS. NO DRAWING REVIEW, CONSTRUCTION REVIEW OR ANY OTHER ACT OR SERVICES RENDERED BY THE OWNER, ARCHITECT, THEIR EMPLOYEES OR CONSULTANTS SHALL BE CONSTRUED TO APPROVE OR JUDGE UPON THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.

B. THE CONTRACTOR SHALL HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, ARCHITECT, THEIR EMPLOYEES AND CONSULTANTS FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGE ARISING OR ALLEGED TO ARISE FROM THE PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, THEIR EMPLOYEES OR CONSULTANTS.

1.12 SITE INVESTIGATION: THE CONTRACTOR ACKNOWLEDGES THAT HE HAS INVESTIGATED AND SATISFIED HIMSELF AS TO THE CONDITIONS AFFECTING HIS WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AFFECTING HIS WORK WHETHER SHOWN ON THE DRAWINGS OR NOT. ANY FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF WITH THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM FROM THIS RESPONSIBILITY.

1.13 TEMPORARY FACILITIES: PROVIDE ALL REQUIRED TEMPORARY FACILITIES FOR PROPER PERFORMANCE OF THE CONTRACT. ALL SUCH TEMPORARY FACILITIES SHALL BE LOCATED WHERE DIRECTED AND MAINTAINED IN A SAFE AND SANITARY CONDITION AT ALL TIMES UNTIL COMPLETION OF THE CONTRACT; THEN REMOVED FROM THE SITE AND DISPOSED OF AS REQUIRED.

1.14 SCHEDULE OF WORK: ARRANGE WORK TO CONFORM TO SCHEDULE OF CONSTRUCTION ESTABLISHED OR REQUIRED TO COMPLY WITH CONTRACT DOCUMENTS.

1.15 WARRANTY OF CONSTRUCTION:

A. THE CONTRACTOR WARRANTS THAT THE WORK PERFORMED UNDER THIS CONTRACT CONFORMS TO THE CONTRACT REQUIREMENTS AND IS FREE OF ANY DEFECTS OF EQUIPMENT, MATERIALS OR DESIGN FURNISHED, OR WORKMANSHIP BY THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS OR SUPPLIERS.

B. SUCH WARRANTY SHALL CONTINUE FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK. UNDER THIS WARRANTY, THE CONTRACTOR SHALL REMEDY AT HIS OWN EXPENSE ANY SUCH FAILURE, DEFECT IN THE SYSTEM.

C. MANUFACTURER'S GUARANTEES OR WARRANTIES STILL IN EFFECT SHALL BE GIVEN TO THE OWNER AT THE EXPIRATION OF THE GUARANTEE PERIOD SPECIFIED ABOVE.

PART 2 - PRODUCTS

2.01 GENERAL: ALL THE MATERIALS SHALL BE NEW, OF THE QUALITY HEREIN SPECIFIED, FREE FROM DEFECTS AND LISTED BY THE UNDERWRITER'S LABORATORIES FOR THE PURPOSE FOR WHICH THEY ARE USED. MATERIALS SHALL BE OF UNIFORM TYPE AND MAKE THROUGHOUT THE BUILDING.

2.02 CONDUIT:

A. ELECTRICAL METALLIC TUBING (EMT):

- CONDUIT: SHALL BE FORMED OF COLD ROLLED STRIP STEEL, ELECTRICAL RESISTANCE WELDED CONTINUOUSLY ALONG THE LONGITUDINAL SEAM AND HOT DIP GALVANIZED AFTER FABRICATION. CONDUIT SHALL CONFORM TO ANSI C80.3 SPECIFICATIONS AND SHALL MEET UL REQUIREMENTS.
- COUPLINGS: ELECTROPLATED, STEEL, SET-SCREW TYPE, UL LISTED CONCRETE TIGHT, EFCOR OR APPROVED EQUAL.
- CONNECTORS IN DRY LOCATIONS: ELECTROPLATED, STEEL, SET-SCREW TYPE, UL LISTED CONCRETE TIGHT WITH INSULATED PLASTIC THROAT, 150 DEGREE C TEMPERATURE RATED; EFCOR OR APPROVED EQUAL.

B. FLEXIBLE METALLIC CONDUIT:

- CONDUIT: SHALL BE FABRICATED IN CONTINUOUS LENGTHS FROM GALVANIZED STEEL STRIP, SPIRALLY WOUND AND FORMED TO PROVIDE AN INTERLOCKING DESIGN.
- FITTINGS: CONNECTORS SHALL BE OF THE SINGLE SCREW CLAMP VARIETY WITH CAST MALLEABLE IRON BODIES AND THREADED MALE HUBS WITH INSULATED THROATS.
- MANUFACTURER: ANACONDA, AMERICAN FLEXIBLE METAL CONDUIT COMPANY OR APPROVED EQUAL.

C. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT:

- CONDUIT SHALL BE FABRICATED IN CONTINUOUS LENGTHS FROM STEEL STRIP, SPIRALLY WOUND AND FORMED TO PROVIDE AN INTERLOCKING DESIGN. THE OUTER COATING SHALL BE PVC.
- MANUFACTURER: ANACONDA TYPE UA, COLEMAN TYPE UXTL OR APPROVED EQUAL.
- FITTINGS: CONNECTOR BODY AND GLAND NUT SHALL BE OF CADMIUM PLATED CAST MALLEABLE IRON, WITH TAPERED, MALE, THREADED HUB; INSULATED THROAT AND NEOPRENE "O" RING GASKET RECESSED INTO THE FACE OF THE STOP NUT. THE CLAMPING GLAND SHALL BE OF MOLDED NYLON WITH AN INTEGRAL BRASS PUSH-IN FERRULE.

2.03 WIRE AND CABLE:

A. DELIVER ALL CONDUCTORS TO THE JOBSITE IN UNBROKEN CONTAINERS OR REELS.

B. ALL CONDUCTORS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES.

C. ALL CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID COPPER; ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER. ALL CONDUCTORS #8 AND SMALLER SHALL BE COLOR CODED. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED.

D. CONDUCTORS FOR BRANCH CIRCUITS SHALL BE TYPE THWN, 90 DEGREES C, 600 VOLT.

E. FIXTURE WIRING SHALL BE AT THE VOLTAGE AND TEMPERATURE RATING REQUIRED BY THE FIXTURE TYPE. MINIMUM SIZE: #12 AWG.

F. COLOR CODING SHALL BE AS FOLLOWS

	208/120V
PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
GROUND	GREEN

2.04 WIRE CONNECTIONS:

A. #18 TO #8 AWG SHALL BE CONNECTED WITH ELECTRICAL SPRING CONNECTORS; #6 AND LARGER WITH CRIMPED CONNECTING, INSULATED SPLICING DEVICES MANUFACTURED BY BURNDY, THOMAS AND BETTS OR EQUAL.

B. SPLICE FIXTURE WIRE TO CIRCUIT WIRE WITH SUITABLY SIZED SPRING CONNECTORS.

2.05 OUTLET BOXES:

A. GALVANIZED STEEL WITH KNOCKOUTS, 4-INCH SQUARE, MINIMUM 1-1/2 INCH DEEP.

B. SWITCH BOXES SHALL BE 4 INCH X 4 INCH WITH SINGLE PLASTER RING FOR SINGLE SWITCH. MULTIPLE SWITCHES SHALL USE STANDARD 4 SQUARE BOX WITH SUITABLE RING AND COVER.

2.06 WIRING DEVICES:

A. DUPLEX RECEPTACLES:

- GENERAL PURPOSE: NEMA 5-15R, 5-20R (WHERE INDICATED ON THE DRAWINGS OR WHERE A 20A CIRCUIT TERMINATES ON A SINGLE RECEPTACLE), COMMERCIAL SPECIFICATION GRADE, COMPLETE WITH BOX GROUNDING CUPS. HUBBELL 5252, 5362 OR EQUAL, WHITE.
- GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES (GFI): NEMA 5-20R GROUND-FAULT RECEPTACLES SHALL BE PROVIDED WITH INTEGRAL GROUND FAULT CIRCUITRY AND TEST AND RESET SWITCHES. HUBBELL, GFR53521 OR EQUAL, WHITE.
- WHERE A SINGLE RECEPTACLE TERMINATES A DEDICATED 20A CIRCUIT, A 20A RECEPTACLE SHALL BE USED.

B. SWITCHES: 20 AMPERE, 120 VOLT, FAST MAKE, SLOW BREAK, QUIET TYPE WITH SILVER CADMIUM ALLOY CONTACTS; BINDING HEAD TERMINAL SCREWS, BACK AND SIDE WIRED. SINGLE POLE: HUBBELL 1221 OR EQUAL, 3-WAY: HUBBELL 1223 OR EQUAL, WHITE.

C. DEVICE COVERS:

- INTERIOR LOCATIONS: PLASTIC, SMOOTH (NO LINES), WHITE.
- EXTERIOR LOCATIONS (DAMP OR WET): WEATHERPROOF PLATES, ALUMINUM OR PLASTIC FLIP-OPEN "IN-USE" COVERS, FULLY GASKETED.

2.07 SUPPORTING DEVICES:

A. CONDUIT STRAPS: STAMPED, ONE-HOLE TYPE. OZ/GEDNEY, EFCOR OR EQUAL.

B. CONSTRUCTION CHANNEL: 12 GAUGE CHANNEL WITH ACCESSORIES AS REQUIRED. KINDORF, UNISTRUT OR EQUAL.

C. CABLE TIES AND CLAMPS: T&B TY-RAPS", PANUTY PAN-TY OR EQUAL.

D. FASTENERS: WOOD SCREWS FOR FASTENING TO WOOD; MACHINE SCREWS FOR FASTENING TO STEEL; TOGGLE BOLTS FOR FASTENING TO CONCRETE BLOCK, GYPSUM BOARD, OR PLASTER WALLS. EXPANSION ANCHORS FOR ATTACHMENT TO CONCRETE.

2.08 LIGHTING FIXTURES:

A. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPES.

B. FURNISH ALL FIXTURES WITH LAMPS. LAMP TYPE REQUIREMENTS ARE INDICATED ON THE DRAWINGS.

C. LAMPS SHALL MATCH EXISTING BUILDING STANDARDS; SPECIALTY LAMPS SHALL BE AS INDICATED ON THE DRAWINGS.

D. IT IS CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE SIZE, CONFIGURATION AND TYPE OF LIGHT FIXTURE IS COMPATIBLE WITH THE ASSOCIATED CEILING SYSTEM.


2.09 OCCUPANCY SENSORS:

A. WALL MOUNTED: PASSIVE INFRARED WITH ADJUSTABLE SENSITIVITY AND TIME DELAY, "NO-VISIBLE SCREWS", LOW PROFILE DESIGN AND AN OFF/OVERRIDE SWITCH. MANUFACTURER: WATTSTOPPER, CATALOG NUMBERS AS SHOWN ON THE PLANS, WHITE COLOR.


B. CEILING MOUNTED: ULTRASONIC WITH ADJUSTABLE SENSITIVITY AND TIME DELAY, "NO-VISIBLE SCREWS", LOW PROFILE DESIGN. MANUFACTURER: WATTSTOPPER, CATALOG NUMBERS AS SHOWN ON THE PLANS, WHITE COLOR.

C. EACH UNIT SHALL BE RATED FOR THE APPLICABLE VOLTAGE AND SHALL BE ADEQUATE FOR THE LOAD TO BE SERVED. IF THE LOAD EXCEEDS THE RATING OF THE DEVICE, PROVIDE ADDITIONAL RELAYS.

CLIENT




ARCHITECT




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REGISTRATION



CONSULTANT



UNAUTHORIZED CHANGES

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ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	PERMIT SET
△	6.10.19	CITY PLAN CHECK COMMENTS
	9.13.19	BID

PROJECT LOCATION

PET FOOD EXPRESS  
4700 Freeport Blvd Suite 12K-A  
Sacramento, CA 95822

DRAWING TITLE

ELECTRICAL SPECIFICATIONS

SCALE: AS NOTED  
PROJECT NUMBER: 19006  
SHEET NUMBER:

E5.0



2.10 PANELBOARDS:

- A. CABINETS SHALL BE PROVIDED WITH STEEL DOOR AND TRIM, OF CODE THICKNESS, COMPLETE WITH CONCEALED BUTT HINGES. THE CABINETS SHALL BE NEMA 1 OR NEMA 3R AS SHOWN ON THE DRAWINGS.
- B. BUS SHALL BE SILVER-PLATED COPPER WITH TAPS ARRANGED FOR DISTRIBUTED PHASE CONNECTIONS TO BOLT-ON BRANCH CIRCUIT BREAKERS OR FUSED SWITCHES AS INDICATED ON THE DRAWINGS. THE NEUTRAL SHALL BE FULL SIZE WITH LUGS FOR EACH OUTGOING BRANCH CIRCUIT OR FEEDER REQUIRING A NEUTRAL CONNECTION.
- C. BUS BRACING SHALL BE GREATER THAN THE AVAILABLE FAULT CURRENT.
- D. A CIRCUIT DIRECTORY FRAME AND CARD WITH CLEAR PLASTIC COVERING SHALL BE PROVIDED INSIDE EACH PANEL DOOR.
- E. PROVIDE A GROUND BUS IN EACH PANELBOARD.
- F. MANUFACTURER: CUTLER-HAMMER, GENERAL ELECTRIC, SQUARE-D, SIEMENS OR EQUAL.
- G. FINISH: ANSI 61 GRAY, ELECTROSTATICALLY APPLIED.

2.11 CIRCUIT BREAKERS:

- A. CIRCUIT BREAKERS SHALL BE MOLDED CASE, BOLT-ON, TRIP INDICATING, THERMAL MAGNETIC TYPE WITH AMBIENT TEMPERATURE COMPENSATION.
- B. CIRCUIT BREAKERS SHALL HAVE INTERRUPTING CAPACITIES GREATER THAN THE AVAILABLE FAULT CURRENTS, AS INDICATED ON THE DRAWINGS AND NOT LESS THAN 10,000 SYMMETRICAL AMPERES SYSTEMS WHERE AVAILABLE FAULT CURRENTS ARE NOT INDICATED ON THE DRAWINGS.
- C. COVERS SHALL BE SEALED-ON, NON-INTERCHANGEABLE BREAKERS, AND TRIP UNIT COVERS SHALL BE SEALED ON INTERCHANGEABLE TRIP BREAKERS TO PREVENT TAMPERING. CIRCUIT BREAKER RATINGS SHALL BE CLEARLY VISIBLE AFTER INSTALLATION.
- D. BREAKERS SHALL HAVE TOGGLE, QUICK MAKE AND QUICK BREAK OPERATING MECHANISMS WITH TRIP-FREE FEATURE TO PREVENT CONTACTS BEING HELD CLOSED AGAINST OVER-CURRENT CONDITIONS IN THE CIRCUIT.
- E. MANUFACTURER: SAME AS PANELBOARDS (CUTLER-HAMMER, GENERAL ELECTRIC, SQUARE-D, SIEMENS OR EQUAL).

2.12 DISCONNECT SWITCHES:

- A. SWITCHES SHALL BE 600 VOLT RATED, NEMA HEAVY DUTY TYPE WITH DEAD FRONT CONSTRUCTION AND PADLOCK PROVISIONS IN THE OFF POSITION. FINISH SHALL BE ANSI 61 GRAY, ELECTROSTATICALLY APPLIED.
- B. SWITCHES SHALL HAVE SWITCH BLADES WHICH ARE FULLY VISIBLE IN THE OFF POSITION WHEN THE DOOR IS OPEN. LUGS SHALL BE UL LISTED FOR COPPER CONDUCTORS AND BE FRONT REMOVABLE. ALL CURRENT CARRYING PARTS SHALL BE PLATED.
- C. SWITCHES SHALL HAVE A QUICK-MAKE QUICK-BREAK, POSITION INDICATING, OPERATING HANDLE AND MECHANISM AND A DUAL COVER INTERLOCK TO PREVENT UNAUTHORIZED OPENING OF THE SWITCH DOOR IN THE "ON" POSITION.
- D. SWITCHES SHALL BE FURNISHED WITH A HINGED COVER IN NEMA 1 GENERAL PURPOSE, STEEL SHEET ENCLOSURE.
- E. MANUFACTURER: CUTLER-HAMMER, GENERAL ELECTRIC, SQUARE-D, SIEMENS OR EQUAL.

PART 3 - EXECUTION

3.01 WORKMANSHIP:

- A. ALL WORKMANSHIP SHALL BE OF HIGHEST QUALITY, DONE BY PERSONS ESPECIALLY SKILLED AT ASSIGNED TASKS, AND SHALL RESULT IN NEAT, CLEAN AND WELL DONE INSTALLATION CONSISTENT WITH BEST PRACTICES OF TRADES.
- B. INSTALL WORK UNIFORM, LEVEL AND PLUMB IN RELATIONSHIP TO LINES OF BUILDING. EXPOSED DIAGONAL CONDUIT RUNS ARE NOT PERMITTED.

3.02 COORDINATION WITH OTHER TRADES:

- A. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE APPROXIMATE LOCATION OF OUTLETS AND MATERIALS UNLESS DIMENSIONS ARE SHOWN. FOLLOW THE DRAWINGS AS CLOSELY AS POSSIBLE.
- B. EXAMINE THE CONTRACT DRAWINGS TO LOGICALLY LOCATE WORK IN COORDINATION WITH CONSTRUCTION FEATURES SUCH AS BEAMS, FURRING, DOOR SWINGS, DUCTS, AND PIPES.

3.03 CUTTING AND PATCHING: THE ELECTRICAL CONTRACTOR SHALL OBTAIN APPROVAL BEFORE PERFORMING ANY CUTTING OR PATCHING OF CONCRETE, STEEL, MASONRY, OR WOOD STRUCTURE IN THE BUILDINGS.

3.04 CONDUIT:

- A. USES:
  - 1. ELECTRICAL METALLIC TUBING (EMT) FOR FEEDERS AND POWER AND LIGHTING BRANCH CIRCUITS RUN EXPOSED OR CONCEALED ABOVE CEILINGS AND IN WALLS.
  - 2. FLEXIBLE METALLIC CONDUIT FOR CONNECTIONS TO LIGHTING FIXTURES AND MOTORS IN DRY LOCATIONS ONLY.
  - 3. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR ALL CONNECTIONS TO TRANSFORMERS LOCATED IN DRY OR WET LOCATIONS AND TO AIR CONDITIONING EQUIPMENT AND MOTORS LOCATED IN WET OR DAMP AREAS.
- B. CONDUIT SYSTEMS SHALL BE CONCEALED UNLESS EXPOSED WORK IS CLEARLY CALLED FOR ON THE DRAWINGS. ALL CONDUIT RUNS SHALL BE ROUTED WITH THE LINES OF THE BUILDING. DIAGONAL RUNS ARE NOT ACCEPTABLE.
- C. CLEAN ANY CONDUIT IN WHICH MOISTURE OR ANY FOREIGN MATTER HAS COLLECTED BEFORE PULLING IN CONDUCTORS.
- D. INSTALL A NYLON OR POLYETHYLENE PULLING LINE IN ALL EMPTY CONDUITS OR DUCTS.
- E. IN LONG RUNS OF CONDUIT, PROVIDE SUFFICIENT PULL BOXES TO FACILITATE PULLING WIRES AND CABLES. SUPPORT PULL BOXES FROM STRUCTURE INDEPENDENT OF CONDUIT SUPPORTS. SPACING OF PULL BOXES SHALL NOT EXCEED 100 FEET. PULL BOXES ARE NOT NECESSARILY SHOWN ON THE PLANS.
- F. CONDUIT PENETRATIONS: PROVIDE SEAMLESS LEAD FLASHING, SEALED WATERTIGHT WITH APPROVED SEALING COMPOUNDS, WHERE CONDUITS PENETRATE THE ROOF.

- G. WHERE CONDUITS PASS THROUGH FINISHED FLOORS OR CEILINGS, PROVIDE STEEL ESCUTCHEON PLATES, CHROMED OR PAINTED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- H. WHERE CONDUITS PASS THROUGH FIRE-RATED WALLS, EACH SHALL BE FIRE-STOPPED USING APPROVED FIRE SEALING COMPOUNDS AND METHODS.

3.05 CABLE AND WIRE INSTALLATION:

- A. CONDUCTORS SHALL NOT BE INSTALLED IN CONDUIT UNTIL ALL WORK OF ANY NATURE THAT MAY CAUSE INJURY IS COMPLETED. CARE SHOULD BE TAKEN IN PULLING CONDUCTORS SO THAT INSULATION IS NOT DAMAGED. NON-PETROLEUM BASE AND INSULATING TYPE PULLING COMPOUND SHALL BE USED AS NEEDED.
- B. ALL WIRE AND CABLE IN PANELS, CONTROL CENTERS AND EQUIPMENT ENCLOSURES SHALL BE BUNDLED AND CLAMPED.
- C. SECURELY MARK ALL BRANCH CIRCUITS WITH VINYL WRAP-AROUND MARKERS. WHERE MORE THAN TWO CONDUCTORS RUN THROUGH A SINGLE OUTLET, MARK EACH CIRCUIT WITH THE CORRESPONDING PANELBOARD CIRCUIT NUMBER. COLOR CODE CONDUCTORS SIZE #6 AND LARGER USING SPECIFIED PHASE COLOR MARKERS AND IDENTIFICATION TAGS.

3.06 INSTALLATION OF BOXES AND WIRING DEVICES:

- A. GENERAL:
  - 1. ALL OUTLETS SHALL FINISH FLUSH WITH BUILDING WALLS, CEILINGS AND FLOORS EXCEPT WHERE EXPOSED WORK IS CALLED FOR.
  - 2. INSTALL RAISED DEVICE COVERS (PLASTER RINGS) ON ALL SWITCH AND RECEPTACLE OUTLETS INSTALLED IN STUD WALLS; OR IN FURRED OR SUSPENDED, WALLS OR CEILINGS, COVERS SHALL BE OF A DEPTH TO SUIT THE WALL OR CEILING FINISH.
  - 3. FURNISH AND INSTALL A SINGLE GANG RING AND A PULL LINE INTO THE NEAREST ACCESSIBLE CEILING SPACE FOR EACH TELEPHONE OR DATA OUTLET WHERE SHOWN ON THE DRAWINGS.
  - 4. LEAVE NO UNUSED OPENINGS IN ANY BOX. INSTALL CLOSE-UP PLUGS AS REQUIRED TO SEAL OPENINGS.
- B. BOX LAYOUT:
  - 1. OUTLET BOXES SHALL BE INSTALLED AT THE LOCATIONS AND ELEVATIONS SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN. MAKE ADJUSTMENTS TO LOCATIONS AS REQUIRED BY STRUCTURAL CONDITIONS AND TO SUIT COORDINATION REQUIREMENTS OF OTHER TRADES.
  - 2. THROUGH-WALL BOXES SHALL NOT BE PERMITTED.

C. SUPPORTS:

- 1. BOXES INSTALLED IN METAL STUD WALLS SHALL BE EQUIPPED WITH BRACKETS DESIGNED FOR ATTACHING DIRECTLY TO THE STUDS OR SHALL BE MOUNTED ON HEAVY GAUGE, GALVANIZED STEEL, SNAP-IN BOX SUPPORTS. EFCOR MBS SERIES, STEEL CITY 5171 V SERIES OR EQUAL.
- 2. FIXTURE OUTLET BOXES INSTALLED IN GYPSUM BOARD CEILINGS SHALL BE MOUNTED TO 16 GAUGE METAL CHANNEL BARS ATTACHED TO CEILING STUDS.
- 3. FIXTURE OUTLET BOXES INSTALLED IN SUSPENDED CEILINGS SUPPORTING ACOUSTICAL TILES OR PANELS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE.

D. WIRING DEVICES AND DEVICE PLATES:

- 1. WALL MOUNTED STRAIGHT BLADE, U-GROUND RECEPTACLES SHALL BE INSTALLED WITH GROUNDING SLOT AT THE BOTTOM FOR VERTICAL ORIENTATIONS AND WITH GROUNDING SLOT AT LEFT FOR HORIZONTAL ORIENTATIONS.
- 2. DEVICE PLATES SHALL BE SET WITH THE VERTICAL CORNER LINE PLUMB AND WITH ALL EDGES OF THE PLATE IN CONTACT WITH THE ADJACENT WALL SURFACES.
- 3. BLANK DEVICE PLATES SHALL BE INSTALLED ON ALL OUTLETS IN WHICH NO DEVICE IS INSTALLED (E.G., TELEPHONE AND DATA OUTLETS).

3.07 LIGHTING FIXTURES:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HANDLING AND INSTALLATION OF FIXTURES INCLUDING ALL SUPPORTS, HANGERS AND HARDWARE NECESSARY FOR A COMPLETE INSTALLATION. FIXTURES SHALL BE CLEAN, PLUMB, LEVEL, IN STRAIGHT LINES, WITHOUT DISTORTION. REMEDY ANY LIGHT LEAKS WHICH MAY DEVELOP AFTER INSTALLATION OF RECESSED OR ENCLOSED FIXTURES.
- B. RECESSED FLUORESCENT FIXTURES INSTALLED IN SUSPENDED CEILINGS SHALL BE SUSPENDED FROM THE STRUCTURE INDEPENDENT OF THE CEILING SYSTEM. PROVIDE TWO #12 SOLID STEEL TIE WIRES PER FIXTURE FASTENED TO THE STRUCTURE ABOVE AND FASTENED TO HANGER EYES ON EACH FIXTURE AT DIAGONAL CORNERS.
- C. FURNISH RECESSED FLUORESCENT FIXTURES WITH SEISMIC CUPS ON EACH END AS REQUIRED BY THE LOCAL INSPECTION AUTHORITIES.

3.08 PANELBOARD:

- A. SET PANELBOARD PLUMB AND SYMMETRICAL WITH BUILDING LINES.
- B. PROVIDE MOUNTING BRACKETS, BUSBAR DRILLINGS AND FILLER PIECES FOR UNUSED SPACES.
- C. "TRAIN" INTERIOR WIRING; BUNDLE AND CLAMP, USING SPECIFIED PLASTIC WIRE WRAPS.
- D. TOUCH-UP PAINT ANY MARKS, BLEMISHES, OR OTHER FINISH DAMAGE SUFFERED DURING INSTALLATION.
- E. PROVIDE TYPEWRITTEN DIRECTORY SHOWING LOADS SERVED BY ROOM NUMBER, AREA OR EQUIPMENT FOR EACH CONDUIT.

3.09 GROUNDING:

- A. EXCEPT AS OTHERWISE NOTED, THE COMPLETE ELECTRICAL INSTALLATION INCLUDING THE NEUTRAL CONDUCTOR, METALLIC CONDUITS AND RACEWAYS, BOXES, CABINETS AND EQUIPMENT SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH ALL CODE REQUIREMENTS, WHETHER OR NOT SUCH CONNECTIONS ARE SPECIFICALLY SHOWN OR SPECIFIED.

- B. AN INSULATED, GREEN COPPER GROUND CONDUCTOR SHALL BE INSTALLED IN ALL CONDUITS INCLUDING FEEDERS AND POWER BRANCH CIRCUITS, AS SHOWN ON THE DRAWINGS.
- C. CONDUIT TERMINATING IN CONCENTRIC KNOCKOUTS AT PANELBOARDS, CABINETS AND GUTTERS SHALL HAVE GROUNDING BUSHINGS AND BONDING JUMPERS INSTALLED INTERCONNECTING ALL SUCH CONDUITS AND THE PANELBOARDS, CABINETS, GUTTER, ETC.
- D. TERMINATE ALL GROUND WIRES ON THE GROUND BUS PROVIDED IN PANELBOARDS. TERMINATE GROUND WIRES IN RECEPTACLE BOXES ON THE RECEPTACLE GREEN GROUND SCREW AND PROVIDE A GROUND PIGTAIL TO THE BOX.

3.10 DEMOLITION:

- A. CONTRACTOR SHALL REVIEW ALL THE ARCHITECTURAL DRAWINGS AND FAMILIARIZE HIMSELF WITH THE FULL EXTENT OF THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL VISIT THE PROJECT SITE, PRIOR TO SUBMITTING BID, AND PREPARE AN INVENTORY LIST OF ALL THE ELECTRICAL PANELS, TRANSFORMERS, WIRING DEVICES, CONDUITS AND WIRING THAT NEEDS TO BE REMOVED FROM THE INTERIOR WALLS THAT ARE BEING DEMOLISHED. CONTRACTOR SHALL REMOVE ALL UNUSED CONDUITS AND CONDUCTORS FROM INTERIOR CEILING SPACE. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE DEMOLITION COST.
- B. CONTRACTOR SHALL TRACE ALL THE EXISTING RECEPTACLES AT THE INTERIOR WALLS THAT WILL NOT BE DEMOLISHED.
- C. CONTRACTOR MUST VERIFY WITH THE GENERAL CONTRACTOR THE EXTENT AND SCOPE OF ALL THE DEMOLITION WORK PRIOR TO SUBMITTING HIS BID.

3.11 IDENTIFICATION DEVICES:

- A. PROVIDE PLASTIC ENGRAVED NAMEPLATES ON ALL PANELBOARDS. NAMEPLATES SHALL BE BLACK WITH 3/8" HIGH WHITE LETTERS AND SHALL CLEARLY INDICATE THE DEVICE NAME. ATTACH NAMEPLATES USING TWO STAINLESS STEEL SCREWS.
- B. PROVIDE A TYPEWRITTEN PANELBOARD DIRECTORY IN EACH PANELBOARD.
- C. PROVIDE BLACK LETTERING (3/16" HIGH) ON CLEAR ADHESIVE CIRCUIT MARKERS ("BROTHER" OR EQUAL) IDENTIFYING PANEL AND CIRCUIT NUMBER(S) ON EACH RECEPTACLE. HVAC EQUIPMENT AND MOTOR. MARKERS SHALL BE PLACED ON THE RECEPTACLE COVER PLATES OR ON THE OUTSIDE OF DISCONNECT SWITCHES IN DRY LOCATIONS AND ON THE INSIDE OF DISCONNECT SWITCH COVERS IN DAMP OR WET LOCATIONS.

3.12 TESTING:

- A. REQUIRED LABOR, EQUIPMENT AND MATERIALS SHALL BE PROVIDED TO PERFORM SPECIFIED TESTS. TESTS MUST BE SUCCESSFULLY COMPLETED PRIOR TO AND AFTER ENERGIZING SYSTEMS. DEFECTS WHICH ARE FOUND DURING TESTS SHALL BE CORRECTED AT NO ADDITIONAL CHARGE.
  - B. TEST ALL NEW FEEDERS, CIRCUITS, LIGHTING FIXTURES, CONTROL DEVICES AND MOTORS FOR PROPER OPERATION. CORRECT ANY MALFUNCTIONS AT NO ADDITIONAL CHARGE.
  - C. THE FEEDER CONDUCTORS SHALL BE GIVEN A DIELECTRIC TEST OF 1000 VOLTS FOR ONE MINUTE BETWEEN ALL PHASES AND GROUND AND BETWEEN NEUTRAL AND GROUND. TESTS SHALL BE CONDUCTED AFTER PULLING CONDUCTORS AND PRIOR TO ENERGIZING. REPLACE, AT NO ADDITIONAL CHARGE, ANY CONDUCTORS DEEMED DEFECTIVE BY THE ENGINEER.
  - D. RECORD ALL TEST VALUES NEATLY IN AN 8-1/2" X 11" BOUND FORMAT AND INDEXED BY TEST AND SUBMIT TO THE ARCHITECT FOR APPROVAL.
- 3.13 CLEAN-UP: PERFORM THE WORK UNDER THIS SECTION SO AS TO KEEP AFFECTED PORTIONS OF THE BUILDING AND SITE NEAT, CLEAN AND ORDERLY. UPON COMPLETION OF THE WORK UNDER THIS SECTION, REMOVE IMMEDIATELY ALL SURPLUS MATERIALS, RUBBISH AND EQUIPMENT ASSOCIATED WITH OR USED IN THE PERFORMANCE OF THIS WORK. FAILURE TO PERFORM SUCH CLEANUP OPERATIONS WITHIN 24 HOURS OF NOTICE BY THE OWNER SHALL BE CONSIDERED ADEQUATE GROUNDS FOR HAVING THE WORK DONE BY OTHERS AT THIS CONTRACTOR'S EXPENSE.

END OF SECTION 16000

CLIENT

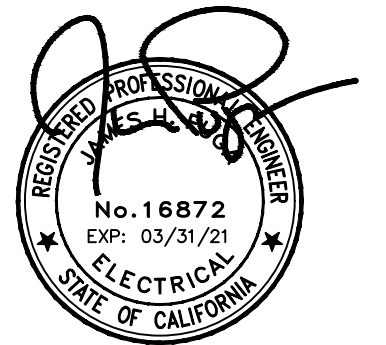


ARCHITECT



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REGISTRATION



CONSULTANT



UNAUTHORIZED CHANGES

CLIENT SHALL NOT PERMIT ANY PERSON RETAINED, HIRED, CONSULTED OR OTHERWISE ENGAGED BY CLIENT, INCLUDING BUT NOT LIMITED TO GENERAL CONTRACTORS, SUBCONTRACTORS, SUPPLIERS, ARCHITECTS, ENGINEERS OR OTHER DESIGN PROFESSIONALS, TO MAKE ANY CHANGES TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY PROJECT ARCHITECT WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT. TO THE EXTENT ANY SUCH CHANGES ARE MADE WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT, CLIENT RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES. TO THE EXTENT CLIENT ENTERS ANY CONTRACTS FOR CONSTRUCTION, SUPPLY, ARCHITECTURAL, ENGINEERING OR OTHER DESIGN SERVICES, SAID CONTRACTS SHALL SPECIFICALLY PROHIBIT THE OTHER PARTY FROM MAKING ANY CHANGE OR MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN CONSENT OF PROJECT ARCHITECT AND WHICH FURTHER RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	PERMIT SET
⚠	6.10.19	CITY PLAN CHECK COMMENTS
	9.13.19	BID

PROJECT LOCATION

PET FOOD EXPRESS  
4700 Freeport Blvd Sutie 12K-A  
Sacramento, CA 95822

DRAWING TITLE

ELECTRICAL SPECIFICATIONS

SCALE: AS NOTED

PROJECT NUMBER: 19006

SHEET NUMBER:

E5.1



**A. General Information**

Climate Zone: 12 Conditioned Floor Area: 7,447  
 Unconditioned Floor Area: 0

Building Type:  Nonresidential  High-Rise Residential  Hotel/Motel  
 Schools  Relocatable Public Schools  Conditioned Spaces  Unconditioned Spaces

Phase of Construction:  New Construction  Addition  Alteration  
 Method of Compliance:  Complete Building  Area Category  Tailored

Project Address: 4700 Freepoint Blvd., Suite 12K-A

**B. Lighting Compliance Documents** (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-03-E	Indoor Lighting Power Allowance
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-04-E	Tailored Method Worksheets
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
<input type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

**C. Summary of Allowed Lighting Power**  
 Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
01	Watts	02	Watts
Installed Lighting NRCC-LTI-01-E, Table H, page 5	+ 9,107	Installed Lighting NRCC-LTI-01-E, Table H, page 5	+ 0
Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	- 0
Minus Lighting Control Credits NRCC-LTI-02-E, page 2	- 0	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	= 9,107
Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	= 9,107	Adjusted Installed Lighting Power (row 1 minus row 3)	= 0
Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)		Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)	
Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1	9,618	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1	0
Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2	

**D. Declaration of Required Certificates of Installation**  
 Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Compliance Document/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/>

**E. Declaration of Required Certificates of Acceptance**  
 Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Compliance Document/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	<input type="checkbox"/>

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:  
 CONDITIONED SPACE  UNCONDITIONED SPACE

**F. Indoor Lighting Schedule and Field Inspection Energy Checklist**

The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.  
 When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.  
 When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines  
 Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

**G. Installed Portable Luminaires in Offices - Exception to Section 140.6(a)**

This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.  
 This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office  
 Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule		Office Installed Portable Luminaire W/ft <sup>2</sup>					Office Location		Field Inspector	
1	2	3	4	5	6	7	8	9	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; if G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
									<input type="checkbox"/>	<input type="checkbox"/>
Total installed portable luminaire watts that are greater than 0.3 W/ft <sup>2</sup> per office:								Enter sum total of all pages into NRCC-LTI-01-E, Page 1	<input type="checkbox"/>	<input type="checkbox"/>

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:  
 CONDITIONED SPACE  UNCONDITIONED SPACE

**H. Indoor Lighting Schedule and Field Inspection Energy Checklist**

Luminaire Schedule		Installed Watts				Location		Field Inspector <sup>1</sup>	
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F3278, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined CEC Default from table according to §100.06(g)	Number of Luminaires	Total Installed Watts in this area (N03 x N05)	Primary Function area in which these luminaires are installed	Pass	Fail	Field Inspector <sup>1</sup>
A2/AZE	25w LED	25.0	<input type="checkbox"/>	2	50	Electrical, Mechanical Room	<input type="checkbox"/>	<input type="checkbox"/>	
A2/AZE	25w LED	25.0	<input checked="" type="checkbox"/>	7	175	Corridor/Restroom/Support	<input type="checkbox"/>	<input type="checkbox"/>	
A2/AZE	25w LED	25.0	<input checked="" type="checkbox"/>	1	25	Computer Room	<input type="checkbox"/>	<input type="checkbox"/>	
B	23w LED	23.0	<input checked="" type="checkbox"/>	7	161	Retail Sales, Wholesale	<input type="checkbox"/>	<input type="checkbox"/>	
C/CE	97w LED	97.0	<input checked="" type="checkbox"/>	70	6,790	Retail Sales, Wholesale	<input type="checkbox"/>	<input type="checkbox"/>	
C1	48w LED	48.0	<input checked="" type="checkbox"/>	2	96	Retail Sales, Wholesale	<input type="checkbox"/>	<input type="checkbox"/>	
D	13w LED	13.0	<input checked="" type="checkbox"/>	2	26	Retail Sales, Wholesale	<input type="checkbox"/>	<input type="checkbox"/>	
G/GE	30w LED	30.0	<input checked="" type="checkbox"/>	2	60	Corridor/Restroom/Support	<input type="checkbox"/>	<input type="checkbox"/>	
G/GE	30w LED	30.0	<input checked="" type="checkbox"/>	2	60	Office <= 250 sqft	<input type="checkbox"/>	<input type="checkbox"/>	
INSTALLED WATTS PAGE TOTAL:					7,443	Enter sum total of all pages into NRCC-LTI-01-E, Page 2	<input type="checkbox"/>	<input type="checkbox"/>	

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:  
 CONDITIONED SPACE  UNCONDITIONED SPACE

**H. Indoor Lighting Schedule and Field Inspection Energy Checklist**

Luminaire Schedule		Installed Watts				Location		Field Inspector <sup>1</sup>	
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F3278, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined CEC Default from table according to §100.06(g)	Number of Luminaires	Total Installed Watts in this area (N03 x N05)	Primary Function area in which these luminaires are installed	Pass	Fail	Field Inspector <sup>1</sup>
K/KE	30w LED	30.0	<input type="checkbox"/>	5	150	Retail Sales, Wholesale	<input type="checkbox"/>	<input type="checkbox"/>	
L	44w LED	44.0	<input checked="" type="checkbox"/>	7	308	Retail Sales, Wholesale	<input type="checkbox"/>	<input type="checkbox"/>	
M	300w LED	300.0	<input checked="" type="checkbox"/>	1	300	Retail Sales, Wholesale	<input type="checkbox"/>	<input type="checkbox"/>	
P	30w LED	30.0	<input checked="" type="checkbox"/>	7	210	Retail Sales, Wholesale	<input type="checkbox"/>	<input type="checkbox"/>	
Q	16w LED	16.0	<input checked="" type="checkbox"/>	21	336	Retail Sales, Wholesale	<input type="checkbox"/>	<input type="checkbox"/>	
T	Total CL - 3A	360.0	<input checked="" type="checkbox"/>	1	360	Retail Sales, Wholesale	<input type="checkbox"/>	<input type="checkbox"/>	
INSTALLED WATTS PAGE TOTAL:					1,664	Enter sum total of all pages into NRCC-LTI-01-E, Page 2	<input type="checkbox"/>	<input type="checkbox"/>	

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jim Puga  
 Company: Up-Light Electrical Engineering, Inc.  
 Address: 3130 Twitchell Island Road  
 City/State/Zip: West Sacramento, CA 95691

Documentation Author Signature: [Signature]  
 Signature Date: 6/4/2019  
 CEA Certification Identification (if applicable): E16872  
 Phone: 916.371.3202

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury, under the laws of the State of California:  
 1. The information provided on this Certificate of Compliance is true and correct.  
 2. 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).  
 3. 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.  
 4. 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.  
 5. 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 must be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Jim Puga  
 Company: Up-Light Electrical Engineering, Inc.  
 Address: 3130 Twitchell Island Road  
 City/State/Zip: West Sacramento, CA 95691

Responsible Designer Signature: [Signature]  
 Date Signed: [Date]  
 License: E16872  
 Phone: 916.371.3202

CLIENT

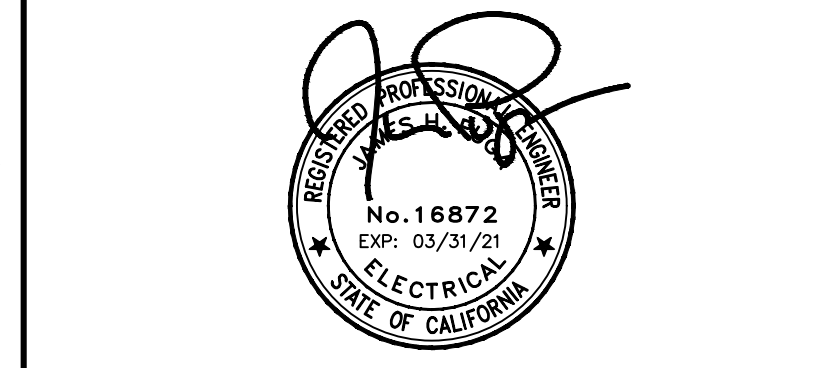


ARCHITECT



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 Oakland, CA 94612  
 p 415.541.0977  
 www.msasf.com

REGISTRATION



CONSULTANT



UNAUTHORIZED CHANGES

CLIENT SHALL NOT PERMIT ANY PERSON RETAINED, HIRED, CONSULTED OR OTHERWISE ENGAGED BY CLIENT, INCLUDING BUT NOT LIMITED TO GENERAL CONTRACTORS, SUBCONTRACTORS, SUPPLIERS, ARCHITECTS, ENGINEERS OR OTHER DESIGN PROFESSIONALS, TO MAKE ANY CHANGES TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY PROJECT ARCHITECT WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT.  
 TO THE EXTENT ANY SUCH CHANGES ARE MADE WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT, CLIENT RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.  
 TO THE EXTENT CLIENT ENTERS ANY CONTRACTS FOR CONSTRUCTION, SUPPLY, ARCHITECTURAL, ENGINEERING OR OTHER DESIGN SERVICES, SAID CONTRACTS SHALL SPECIFICALLY PROHIBIT THE OTHER PARTY FROM MAKING ANY CHANGE OR MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN CONSENT OF PROJECT ARCHITECT AND WHICH FURTHER RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

ISSUE / REVISION

NO.	DATE	REVISION NAME
4.19.19		PERMIT SET
6.10.19		CITY PLAN CHECK COMMENTS
9.13.19		BID

PROJECT LOCATION

PET FOOD EXPRESS  
 4700 Freepoint Blvd Suite 12K-A  
 Sacramento, CA 95822

DRAWING TITLE

TITLE-24 COMPLIANCE FORMS

SCALE: AS NOTED  
 PROJECT NUMBER: 19006  
 SHEET NUMBER:

E6.0



STATE OF CALIFORNIA  
**INDOOR LIGHTING – LIGHTING CONTROLS**  
 SECTION 110.6 (Revised 01/16)  
 CALIFORNIA ENERGY COMMISSION  
 CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E  
 Indoor Lighting - Lighting Controls (Page 1 of 3)  
 Project Name: Pet Food Express Date Prepared: 6/4/2019

**A. Mandatory Lighting Control Declaration Statements** (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-Off control requirements in Section 130.1(c).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-off controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA  
**INDOOR LIGHTING – LIGHTING CONTROLS**  
 SECTION 110.6 (Revised 01/16)  
 CALIFORNIA ENERGY COMMISSION  
 CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E  
 Indoor Lighting - Lighting Controls (Page 2 of 3)  
 Project Name: Pet Food Express Date Prepared: 6/4/2019

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:  
 CONDITIONED SPACES  UNCONDITIONED SPACES

**B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist**

Lighting Control Schedule	Standards Complying With <sup>1</sup>										Watts of Controlled Lighting	PAF	Control Credit (K x L)	✓ if Acceptance Test Required	Field Inspector	
	01	02	03	04	05	06	07	08	09	10						
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)	§140.6(b)	§140.6(d)						
Restroom	Occupancy Sensor	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Utility Room	Occupancy Sensor	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Receiving	Multi Level	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Office	Multi Level	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
I.T. Room	Occupancy Sensor	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Sales - Petwash	Multi Level	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Control Credit PAGE TOTAL (Sum of Column 13):											0					
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):											0					
												Enter Control Credit total into NRCC-LTI-01-E, Page 1.				

<sup>1</sup> §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.  
<sup>2</sup> Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA  
**INDOOR LIGHTING – LIGHTING CONTROLS**  
 SECTION 110.6 (Revised 01/16)  
 CALIFORNIA ENERGY COMMISSION  
 CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E  
 Indoor Lighting - Lighting Controls (Page 2 of 3)  
 Project Name: Pet Food Express Date Prepared: 6/4/2019

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**B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist**

Lighting Control Schedule	Standards Complying With <sup>1</sup>										Watts of Controlled Lighting	PAF	Control Credit (K x L)	✓ if Acceptance Test Required	Field Inspector	
	01	02	03	04	05	06	07	08	09	10						
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)	§140.6(b)	§140.6(d)						
Sales	Automatic Daylighting	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Sales	Occupancy Sensor	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Hallway	Occupancy Sensor	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Control Credit PAGE TOTAL (Sum of Column 13):											0					
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):											0					
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA  
**INDOOR LIGHTING – LIGHTING CONTROLS**  
 SECTION 110.6 (Revised 01/16)  
 CALIFORNIA ENERGY COMMISSION  
 CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E  
 Indoor Lighting - Lighting Controls (Page 3 of 3)  
 Project Name: Pet Food Express Date Prepared: 6/4/2019

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jim Puga  
 Company: Up-Light Electrical Engineering, Inc.  
 Address: 3130 Twitchell Island Road  
 City/State/Zip: West Sacramento, CA 95691

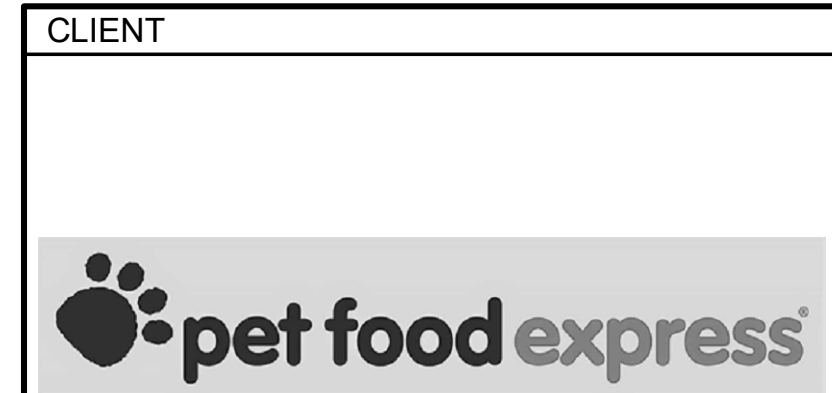
Documentation Author Signature: [Signature]  
 Signature Date: 6/4/2019  
 CSA Certification Identification (if applicable): E16872  
 Phone: 916.371.3202

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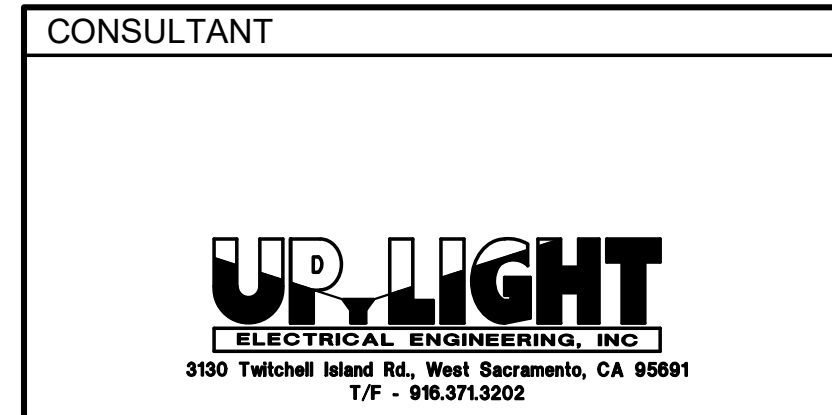
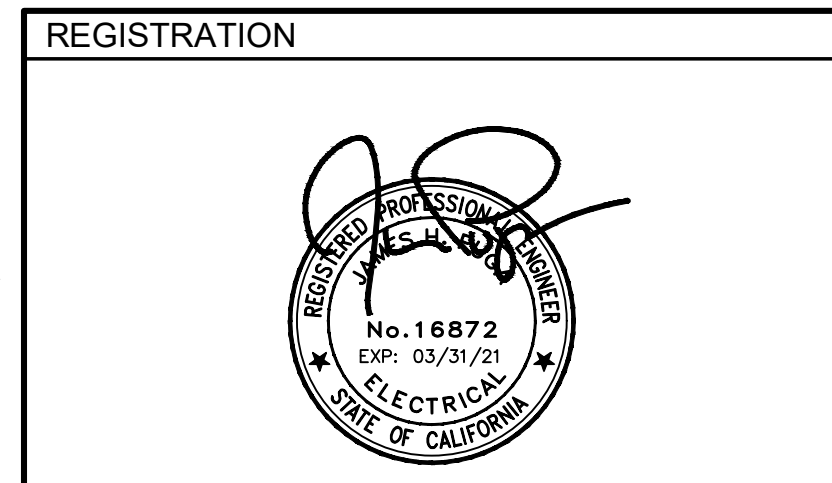
Responsible Designer Name: Jim Puga  
 Company: Up-Light Electrical Engineering, Inc.  
 Address: 3130 Twitchell Island Road  
 City/State/Zip: West Sacramento, CA 95691

Responsible Designer Signature: [Signature]  
 Date Signed: [Date]  
 License: E16872  
 Phone: 916.371.3202

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016



360 22nd Street, Suite 800  
 Oakland, CA 94612  
 p 415.541.0977  
 www.msad.com



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**ISSUE / REVISION**

NO.	DATE	REVISION NAME
	4.19.19	PERMIT SET
▲	6.10.19	CITY PLAN CHECK COMMENTS
	9.13.19	BID

**PROJECT LOCATION**  
 PET FOOD EXPRESS  
 4700 Freeport Blvd Suite 12K-A  
 Sacramento, CA 95822

**DRAWING TITLE**  
 TITLE-24 COMPLIANCE FORMS

SCALE: AS NOTED  
 PROJECT NUMBER: 19006  
 SHEET NUMBER:  
**E6.1**



STATE OF CALIFORNIA  
INDOOR LIGHTING POWER ALLOWANCE  
CEC-NRCC-LTI-03-E (Revised 04/19)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Certificate of Compliance - Indoor Lighting Power Allowance  
Project Name: Pet Food Express Date Prepared: 6/4/2019  
NRCC-LTI-03-E (Page 1 of 4)

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:  
 CONDITIONED spaces  UNCONDITIONED spaces

**A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES**  
 If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.  
 If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)		9,618
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		0
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		0
<b>TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1</b>		<b>9,618</b>

Check here if building contains both conditioned and unconditioned areas.

**B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE**

01	02	03	04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER FT <sup>2</sup>	X	COMPLETE BLDG. AREA
			= ALLOWED WATTS
Total Area:			
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)			

**C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES**

01	02	03	04
WATTS PER FT <sup>2</sup>	X	COMPLETE BLDG. AREA	= ALLOWED WATTS
Total from section C-2:			8,414
Total from section C-3:			1,204
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).			<b>9,618</b>

For Alterations Only - Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA  
INDOOR LIGHTING POWER ALLOWANCE  
CEC-NRCC-LTI-03-E (Revised 04/19)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Certificate of Compliance - Indoor Lighting Power Allowance  
Project Name: Pet Food Express Date Prepared: 6/4/2019  
NRCC-LTI-03-E (Page 2 of 4)

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:  
 CONDITIONED spaces  UNCONDITIONED spaces

**C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE**  
 Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.  
 Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01	02	03	04
AREA CATEGORY (From §140.6 Table 140.6-C)	WATTS PER FT <sup>2</sup>	X	AREA (ft <sup>2</sup> )
Location in Building			= ALLOWED WATTS
Sales	1.20		6,508
Utility	0.55		88
Support	0.60		719
Office <= 250 SF	1.00		96
IT Room	0.80		36
TOTALS			7,447
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)			8,414

WATTS

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA  
INDOOR LIGHTING POWER ALLOWANCE  
CEC-NRCC-LTI-03-E (Revised 04/19)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Certificate of Compliance - Indoor Lighting Power Allowance  
Project Name: Pet Food Express Date Prepared: 6/4/2019  
NRCC-LTI-03-E (Page 3 of 4)

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:  
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**C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)**

01	02	03	04	05	06	07
Primary Function	Sq Ft or Linear ft.	Additional Watts Allowed	Wattage Allowance (02 x 03)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts	ALLOWED WATTS Smaller of 04 or 06
Retail Sales, Wholesale	6,508	0.3	1,952	(7) 30w LED (7) 44w LED (2) 13w LED (1) Total CL - 3A (1) 300w LED	904	904
Retail Sales, Wholesale	6,508	0.2	1,302		300	300
TOTALS - Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES - Section C-1						1,204

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.  
2. Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing studio lighting.  
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA  
LINE-VOLTAGE TRACK LIGHTING WORKSHEET  
CEC-NRCC-LTI-05-E (Revised 01/16)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Indoor Lighting - Line-Voltage Track Lighting Worksheet  
Project Name: Pet Food Express - Landpark Date Prepared: 2/11/2019  
NRCC-LTI-05-E (Page 1 of 2)

There are four different methods available for determining how many watts of line-voltage track, or line-voltage busway, has been installed. One or more methods may be used to determine how many watts of line-voltage track, or line-voltage busway, has been installed. Use this worksheet to separately calculate the input wattage for each system.  
 Separately enter each row of this worksheet into the Luminaire Schedule in Section H of NRCC-LTI-01-E  
 Method 1 is the only option available for determining wattage for track or busway rated for more than 20 amperes

**A. METHOD 1 - VOLT-AMPERE (VA) RATING OF THE BRANCH CIRCUITS(S)**

01	02
BRANCH CIRCUIT NAME OR ID	VOLT-AMPERE (VA) RATING OF THE BRANCH CIRCUIT

**B. METHOD 2 - USE THE HIGHER OF 45 WATTS PER LINEAR FOOT OF TRACK OR TOTAL RATED WATTAGE OF ALL LUMINAIRES**

01	02	03	04	05	06
Track or Name #	Linear Feet of Track	(W/LF)	802 x 803 (W)	Total Rated Wattage of All Luminaires	Larger of (804 or 805)
	45	0			
	45	0			
	45	0			

**C. METHOD 3 - USE THE HIGHER OF: 12.5 WATTS / LINEAR FOOT OF TRACK - OR VA RATING OF INTEGRAL CURRENT LIMITER**  
 Only integral current limiters which are certified to the Energy Commission shall be recognized by the Standards.  
 This method shall not be recognized if an Installation Certificate is not submitted.

01	02	03	04	05	06
Track or Name #	Linear Feet of Track	(W/LF)	CO2 x CO3 (W)	VA Rating of Integral Current Limiter	Larger of (CO4 or CO5)
Cat Freezer Track	8	12.5	100	120	120
Dog Freezer Track	17	12.5	212.5	240	240
		12.5	0		

**D. METHOD 4 - DEDICATED TRACK LIGHTING SUPPLEMENTARY OVERCURRENT PROTECTION PANEL**  
 This method shall not be recognized if an Installation Certificate is not submitted.  
 This method shall be used only for line-voltage track lighting, and shall not be recognized for any other lighting systems. If any other lighting systems or devices are installed, the supplementary overcurrent protection panel shall not be recognized for compliance with the Standards

01	02	03	04
Name or ID	Voltage of the Branch Circuit	Sum of the Ampere Rating of all Devices Installed in the Panel	Wattage = Sum of the Ampere Ratings of all of the Devices Times the Branch Circuit Voltage (002 x 003)
			0
			0
			0

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA  
LINE-VOLTAGE TRACK LIGHTING WORKSHEET  
CEC-NRCC-LTI-05-E (Revised 01/16)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Indoor Lighting - Line-Voltage Track Lighting Worksheet  
Project Name: Pet Food Express Date Prepared: 6/4/2019  
NRCC-LTI-05-E (Page 2 of 2)

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

Documentation Author Name: Jim Puga  
Company: Up-Light Electrical Engineering, Inc.  
Address: 3130 Twitchell Island Road  
City/State/Zip: West Sacramento, CA 95691  
Signature Date: 6/4/2019  
CEA Certification Identification (if applicable): E16872  
Phone: 916.371.3202

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
I certify the following under penalty of perjury, under the laws of the State of California:  
1. The information provided on this Certificate of Compliance is true and correct.  
2. 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).  
3. 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.  
4. 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.  
5. 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: Jim Puga  
Company: Up-Light Electrical Engineering, Inc.  
Address: 3130 Twitchell Island Road  
City/State/Zip: West Sacramento, CA 95691  
Date Signed: 6/4/2019  
License: E16872  
Phone: 916.371.3202

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA  
INDOOR LIGHTING POWER ALLOWANCE  
CEC-NRCC-LTI-03-E (Revised 04/19)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Certificate of Compliance - Indoor Lighting Power Allowance  
Project Name: Pet Food Express Date Prepared: 6/4/2019  
NRCC-LTI-03-E (Page 4 of 4)

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jim Puga  
Company: Up-Light Electrical Engineering, Inc.  
Address: 3130 Twitchell Island Road  
City/State/Zip: West Sacramento, CA 95691  
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License: E16872  
Phone: 916.371.3202

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

CLIENT

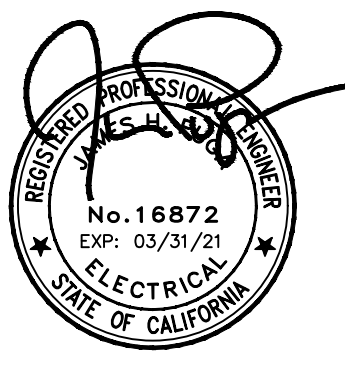


ARCHITECT




360 22nd Street, Suite 800  
Oakland, CA 94612  
p 415.541.0977  
www.msasf.com

REGISTRATION



CONSULTANT



3130 Twitchell Island Rd., West Sacramento, CA 95691  
T/F - 916.371.3202

UNAUTHORIZED CHANGES

CLIENT SHALL NOT PERMIT ANY PERSON RETAINED, HIRED, CONSULTED OR OTHERWISE ENGAGED BY CLIENT, INCLUDING BUT NOT LIMITED TO GENERAL CONTRACTORS, SUBCONTRACTORS, SUPPLIERS, ARCHITECTS, ENGINEERS OR OTHER DESIGN PROFESSIONALS, TO MAKE ANY CHANGE TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY PROJECT ARCHITECT WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT.

TO THE EXTENT ANY SUCH CHANGES ARE MADE WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT, CLIENT RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

TO THE EXTENT CLIENT ENTERS ANY CONTRACTS FOR CONSTRUCTION, SUPPLY, ARCHITECTURAL, ENGINEERING OR OTHER DESIGN SERVICES, SAID CONTRACTS SHALL SPECIFICALLY PROHIBIT THE OTHER PARTY FROM MAKING ANY CHANGE OR MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN CONSENT OF PROJECT ARCHITECT AND WHICH FURTHER RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	PERMIT SET
⚠	6.10.19	CITY PLAN CHECK COMMENTS
	9.13.19	BID

PROJECT LOCATION

PET FOOD EXPRESS  
4700 Freeport Blvd Suite 12K-A  
Sacramento, CA 95822

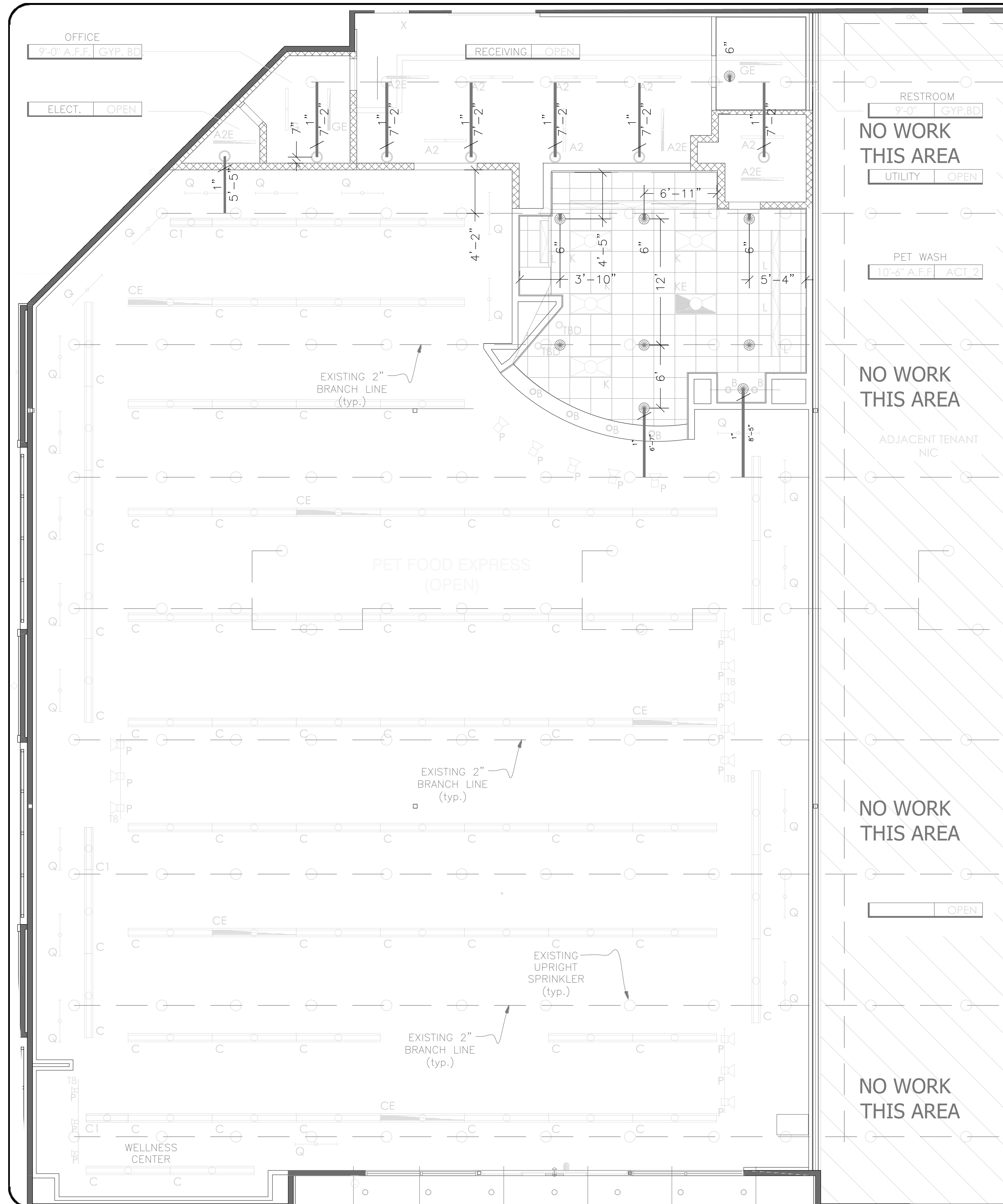
DRAWING TITLE

TITLE-24 COMPLIANCE FORMS

SCALE: AS NOTED  
PROJECT NUMBER: 19006  
SHEET NUMBER:

**E6.2**





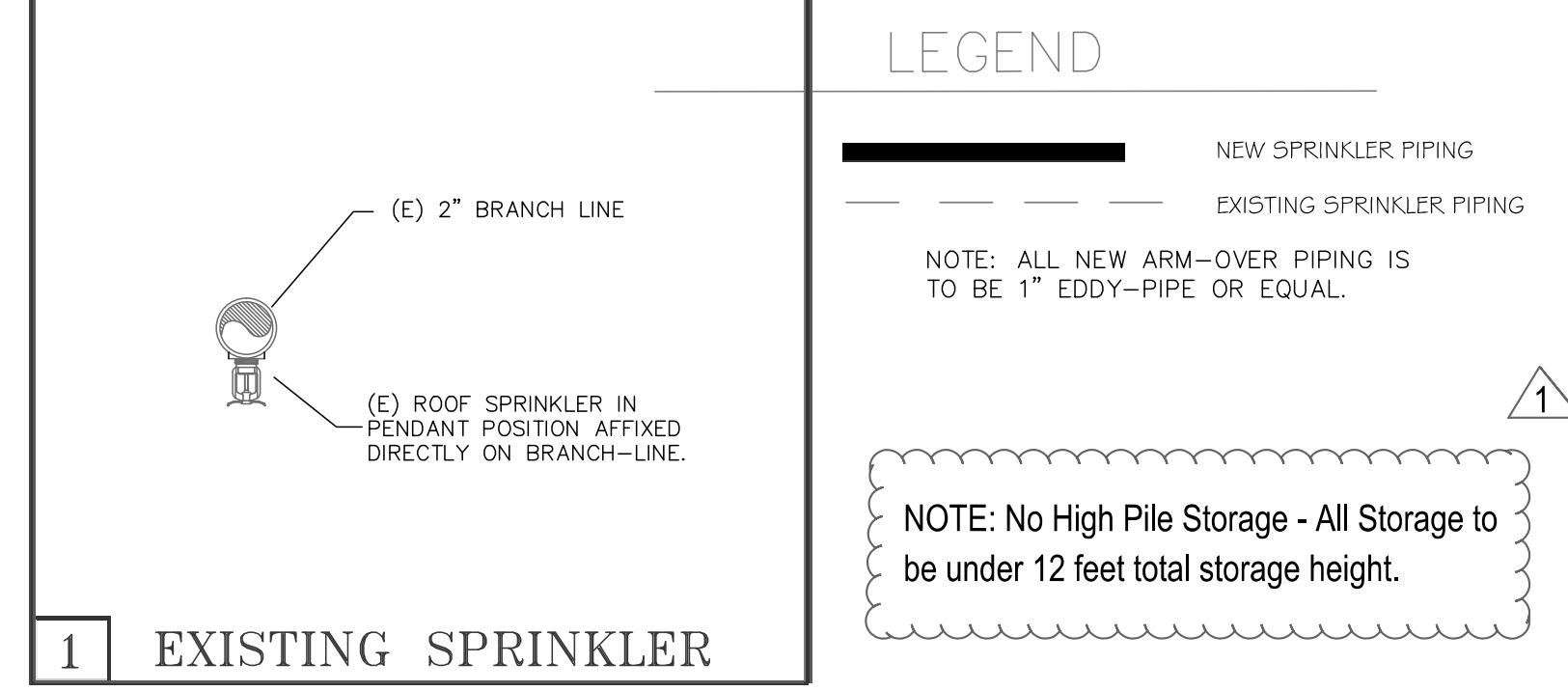
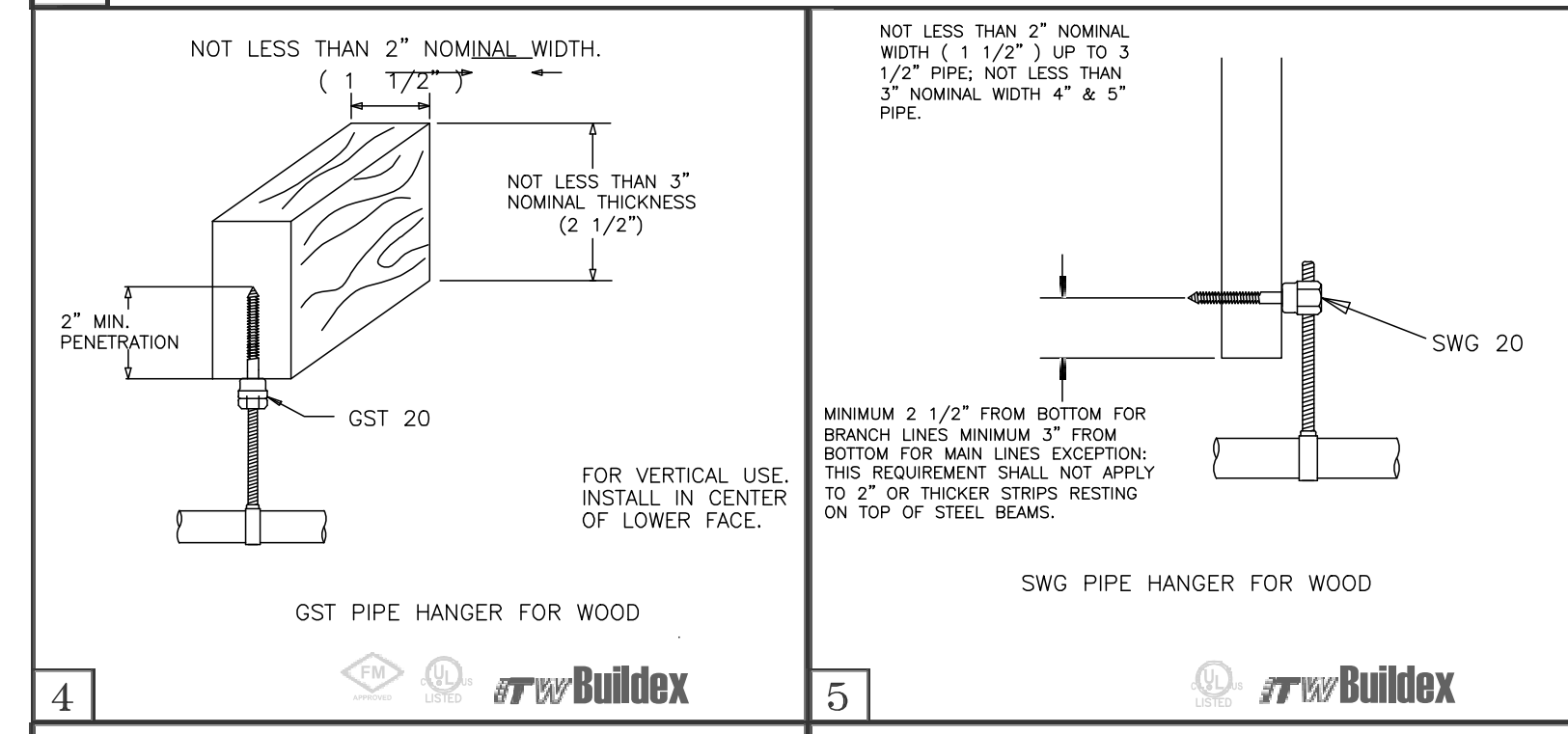
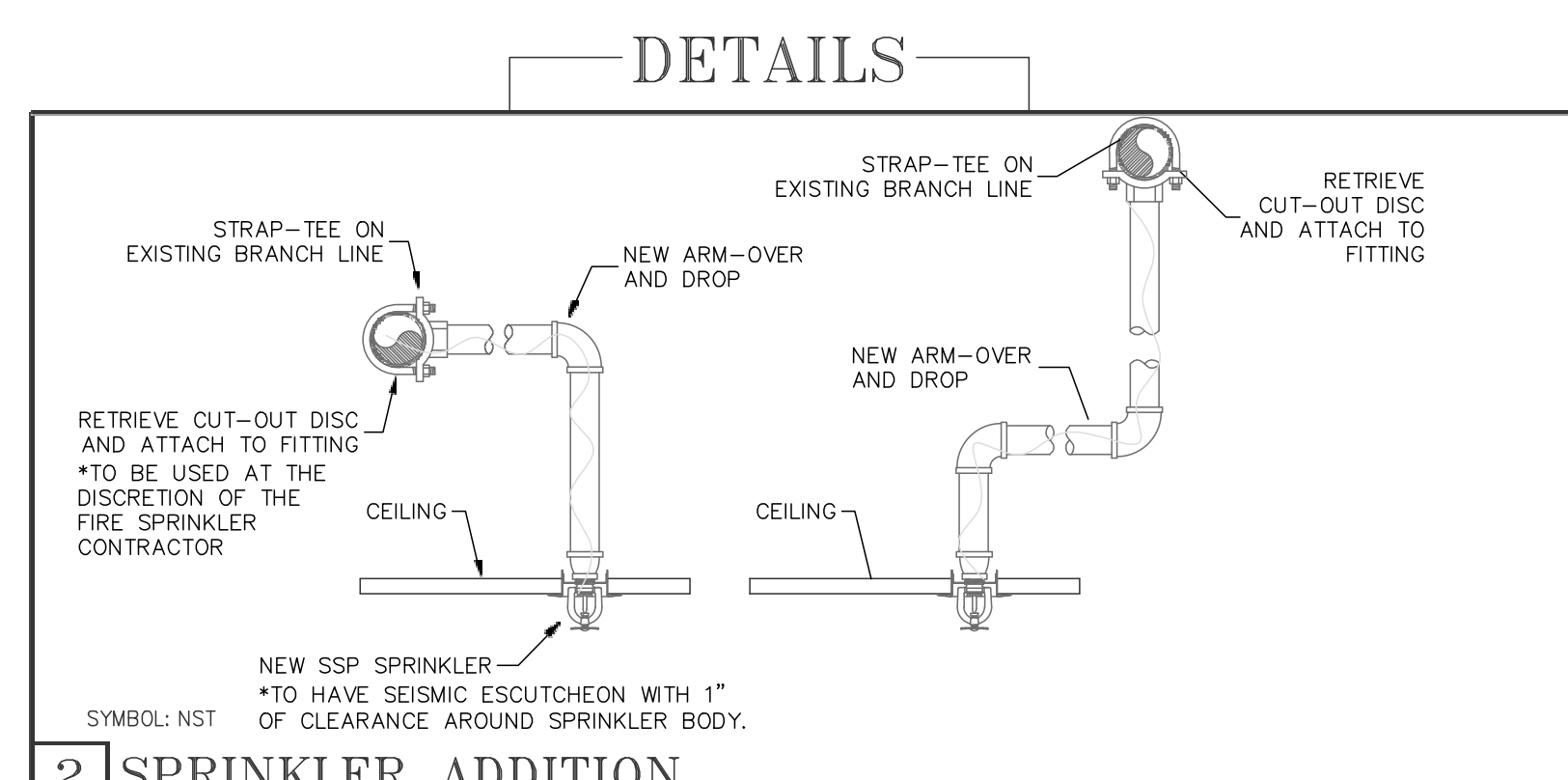
- NOTE:
1. ALL NEW ARM-OVER PIPING IS TO BE 1" EDDY-THREAD OR EQUAL.
  2. BRANCH-LINE & MAIN RELOCATION IS NOT PART OF THIS CONTRACT.
  3. PENDANT SPRINKLER SPACING IS LIMITED TO 130 SQ FT FOR ORDINARY HAZ. & 225 SQ. FT. FOR LIGHT HAZ. AREAS.

**WATER SUPPLY & DEMAND DATA**

WATER SUPPLY:  
 AVAILABILITY:  
 STATIC PRESSURE: 42.0 PSI  
 RESIDUAL PRESSURE: 21.0 PSI WITH 2800 GPM FLOWING  
 ABOVE INFORMATION OBTAINED FROM:  
 DEPARTMENT OF UTILITIES, CITY OF SAC.  
 SYSTEM REG.

**FIRE SPRINKLER LEGEND**

SYMBOL	SN#	SIZE	MAKE	MODEL	STYLE	FINISH	K-FACTOR	TEMP	RESPONSE	QUANTITY	NOTES	
○	TY4151	3/4"	TYCO	TY-B	(E) UPRIGHT	BRASS	8.0	200°	SR	N/A	(E) UPRIGHT	
○	TY4151	3/4"	TYCO	TY-B	UPRIGHT	BRASS	8.0	200°	SR	7	NEW UPRIGHT SPRINKLER	
●	TY4251	3/4"	TYCO	TY-B	PENDANT	CHROME	8.0	155°	SR	9	(N) S.R. SPRINKLER PENDANT - SEMI RECESSED	
TOTAL NUMBER OF SPRINKLERS ON THIS SHEET										16	TOTAL NUMBER OF SPRINKLERS ON THIS CONTRACT	16



- GENERAL NOTES**
1. ALL MATERIAL AND METHODS SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13, 2016. THIS PLAN IS A MODIFICATION TO AN EXISTING WET PIPE SYSTEM.
  2. TENANT REMODEL AREA IS LIGHT HAZARD / ORDINARY.
  3. FOR ALL NEW ARM OVERS AND DROPS, SEE DETAILS 1 - 5.
  4. ALL NEW PIPING IS BLACK STEEL EDDIE-THREAD PIPE WITH THREADED OR MECHANICAL TEE FITTINGS.
  5. THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE, IF REQUIRED, TO IMPROVE THE STRUCTURAL INTEGRITY OF THE BUILDING AND ITS ABILITY TO CARRY THE LOAD OF THE FIRE SPRINKLER SYSTEM.
  6. ANY NEW HANGERS BEING INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO NFPA 13, 2016, CHAPTER 9.
  7. ANY NEW ARM-OVER GREAT THAN 2'-0" SHALL BE SUPPORTED BY A HANGER.
  8. ALL NEW SSP SPRINKLERS ARE TO BE SPACED PER NFPA 13 REQUIREMENTS AND SPRINKLER LISTING REQUIREMENTS. SPRINKLERS MAY NOT BE ALIGNMENT WITH OTHER FIXTURES OR SPRINKLERS.
  9. VERIFY UPRIGHT PROTECTION AROUND ALL NEW FULL-HEIGHT WALLS, UPRIGHTS AND BRANCH LINES ARE DIAGRAMMATIC. FIELD VERIFY ALL PIPE LENGTHS AND DIMENSIONS.
  10. EXISTING TEST DEVICES ARE TO BE USED FOR THIS TENANT IMPROVEMENT. (i.e. ITV, AND FLOW SWITCH)
  11. LOCATION OF SPRINKLERS AND PIPING MAY BE MODIFIED TO ACCOMMODATE UNFORESEEN MECHANICAL, STRUCTURAL OR OTHER FIELD CONDITIONS THAT MAY NOT APPEAR AT TIME OF SUBMITTAL AND MAY REQUIRE FIELD VERIFICATION.
  12. NOT USED.
  13. PROVIDE REQUIRED CLEARANCE AROUND ALL PENETRATIONS PER NFPA 13 PARAGRAPH 9.3.4.
  14. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED IN ACCORDANCE WITH A UL APPROVED SYSTEM TO MAINTAIN THE INTEGRITY OF FIRE RATED ASSEMBLY.
  15. ALL UPRIGHT SPRINKLER MODIFICATIONS ARE TO BE FIELD VERIFIED. EXISTING BRANCH-LINES AND UPRIGHT LOCATIONS ARE CLOSE BUT NOT EXACT TO EXISTING CONDITIONS. NO UPRIGHT SPRINKLERS SHALL BE WITHIN 6 FT OF ANOTHER SPRINKLER, AND NO UPRIGHT SPRINKLER SHALL BE FARTHER THAN 7'-6" FROM ANY GIVEN WALL.

**BUILDING INFORMATION:**  
 STRUCTURE:  
 MASONRY BLOCK & WOOD TRUSS

**BUILDING DATA:**  
 OCCUPANCY: A-2  
 CONSTRUCTION TYPE: V-B - FULLY SPRINKLERED  
 NUMBER OF STORIES: 1  
 BUILDING HEIGHT:  
 18'-0" (MAIN BUILDING)  
 19'-4" (BRAND WALL)

BUILDING AREA: 21,295 S.F.

**REVISIONS**

NO.	DATE	DESCRIPTION
9.13.19	BID SET	



**PROJECT:**  
 PET FOOD EXPRESS T.I.  
 4700 FREEPORT SACRAMENTO, CA 95822

**PIPING PLAN**

**THE FIRE SPRINKLER CO.**  
 4135 MINDT CT.  
 SACRAMENTO, CA 95608  
 (916) 256-2445  
 CALIFORNIA LIC. NO. C-16 990652

DATE: DR	DATE: 4/12/19
NO: 19143	REV: 1 1



# GENERAL NOTES, ABBREVIATIONS

## POST-INSTALLED MECHANICAL ANCHORS

**EXPANSION ANCHORS:** EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT III UNCRACKED MASONRY; EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT III EXPANSION ANCHOR OR APPROVED EQUAL, ICC-ES ESR-1388. CONCRETE OR CONCRETE OVER METAL DECK. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ EXPANSION ANCHOR OR APPROVED EQUAL, ICC-ES ESR 1917.

## GENERAL NOTES

- GENERAL NOTES APPLY TO ALL DRAWINGS.
  - DO ALL WORK IN ACCORDANCE WITH ALL STATE AND LOCAL BUILDING CODES IN EFFECT AT PLACE AND TIME OF CONSTRUCTION.
  - PROVIDE SPECIAL INSPECTION AS REQUIRED BY STRUCTURAL SPECIFICATIONS.
  - CONSTRUCT THOSE FEATURES OF THE PROJECT, WHICH MAY NOT BE FULLY SHOWN, IN MANNER SIMILAR TO THAT USED FOR SIMILAR FEATURES.
  - OMISSION OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWING, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK.
  - CONTRACTOR SHALL REVIEW THE NEED FOR TEMPORARY SHORING, CHEMICAL GROUTING OR UNDERPINNING PRIOR TO EXCAVATION. CONTRACTOR SHALL DESIGN AND INSTALL ALL TEMPORARY BRACING, ETC., REQUIRED DURING ALL STAGES OF WORK.
  - CONTRACTOR SHALL SUBMIT IN WRITING, ANY REQUEST FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING REQUESTED.
  - ALL CONSTRUCTION WORK SHALL CONFORM TO 2015 IBC AND 2016 CBC.
  - CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS OR STARTING CONSTRUCTION AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
  - RETURN TO ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF OPENINGS AND PENETRATIONS. COORDINATE PENETRATIONS. NO NEW OPENING SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT.
  - REFER TO ARCH, MECH, AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF BLOCK OUT, INSERTS, OPENINGS, AND CURBS. DIMENSIONS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
  - GENERAL CONTRACTORS SHALL VERIFY WITH STRUCTURAL ENGINEER ALL MECH. UNIT LOCATIONS PRIOR TO INSTALLATIONS.
  - WHERE EXISTING FIREPROOFING IS TO BE DISTURBED TO ALLOW INSTALLATION OF NEW BRACING OR SIMILAR CONSTRUCTION, CONTRACTOR SHALL REPLACE IN KIND AFTER ALL NEW CONSTRUCTION IS IN PLACE. ALL STEEL STRUCTURES MUST BE COVERED BY ADEQUATE F. R. MATERIAL OR MAINTAINED WITH SAME F. R. MATERIAL.
  - CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY DISCREPANCY AFFECTING STRUCTURAL WORK IS NOTED BETWEEN THE STRUCTURAL DRAWINGS AND ARCHITECTURAL OR MECHANICAL DRAWINGS.
  - CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR HIS REVIEW, SPECIFICATIONS FOR ANY ITEM INTENDED TO BE USED AS A SUBSTITUTION FOR ITEMS SPECIFIED IN THESE DRAWINGS. CONTRACTOR SHALL NOT PROCEED UNTIL THE SUBSTITUTION HAS BEEN REVIEWED AND APPROVED BY THE ENGINEER.
  - IN ADDITION TO THIS DOCUMENT, THE CONTRACTOR SHALL COMPLY WITH GENERAL MALL CRITERIA HANDBOOK AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCY BETWEEN THE TWO DOCUMENTS PRIOR TO STARTING ANY WORK.
  - TENANT STRUCTURAL ADDITIONS AND MODIFICATIONS MUST BE REVISED AND APPROVED BY LANDLORD'S STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION. TENANT'S RESPONSIBLE FOR COST OF ALL APPROVED MODIFICATIONS.
  - DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT.
  - STRUCTURAL DRAWINGS HAVE BEEN COORDINATED WITH THE BASE BUILDING STRUCTURAL DRAWINGS IF ANY DISCREPANCIES OCCUR DUE TO AS-BUILT CONDITIONS, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT & STRUCTURAL ENGINEER OF RECORD.
- CONSTRUCTION LIABILITY:**  
CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

## ABBREVIATIONS

### STANDARD SIERRA ENGINEERING GROUP STRUCTURAL ABBREVIATIONS

ABBR	ABBREVIATION	HD	HOLD/DOWN
AFF	ABOVE FINISH FLOOR	HORIZ	HORIZONTAL
ADDL	ADDITIONAL	HORIZ	HOT DIPPED GALVANIZED
ALT	ALTERNATE	ID	INSIDE DIAMETER
AB	ANCHOR BOLTS	MB	MACHINE BOLT
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
ATTACH	ATTACHMENT	MATL	MATERIAL
BM	BEARING	MAX	MAXIMUM
BRG	BETWEEN	MECH	MECHANICAL
BTHN	BLOCKING	MTL	METAL
BLKG	BOTTOM	ML	MICROLLAM
BOTT	BOTTOM	MIN	MINIMUM
B.O.	BOTTOM OF	NS	NEAR SIDE
CAMB	CAMBER	NSFS	NEAR SIDE AND FAR SIDE
CLG	CEILING	OC	ON CENTER
CHG	CHANGE	OWJ	OPEN WEB JOIST
CHNL	CHANNEL	OFNG	OPENING
C	CLEARANCE	OD	OUTSIDE DIAMETER
COLL	COLLECTOR	O/	OVER
COL	COLUMN	PARALLAM	PARALLAM
CONC	CONCRETE	PLATE	PLATE
CONC	CONDENSING UNIT	PLYWD	PLYWOOD
CONN	CONNECTION	PT	PRESSURE TREATED
CONT	CONTINUOUS	PTDF	PRESSURE TREATED DOUGLAS FIR
CP	DEEP	RFR	RAFTER
DIAG	DIAGONAL	REIN	REINFORCEMENT
DIA	DIAMETER	REQD	REQUIRED
DIM	DIMENSION	RTU	ROOF TOP UNIT
DEP	DOUBLE	SAD	SEE ARCH DRAWING
DEL	DRAWING	SDS	SELF DRILLING SCREWS
DWGS	DRAWINGS	SHTG	SHEATHING
EA	EACH	SHT	SHEET
EK	EACH WAY	SH	SIMILAR
EN	EDGE NAILING	SOG	SLAB ON GRADE
ELEC	ELECTRICAL	STD	STANDARD
ELEV	ELEVATION	STL	STEEL
EMBED	EMBEDMENT	STIF	STIFFENER
EQ	EQUAL	STRNGR	STRINGER
E/O	EVERY OTHER	STRCT	STRUCTURAL
(E)	EXISTING		
FF	FAR SIDE	TSG	TAPERED STEEL GIRDER
FLR	FLOOR	THRD	THREADED ROD
FJ	FLOOR JOIST	TG	TONGUE AND GROOVE
FTG	FOOTING	TB	TOP AND BOTTOM
FND	FOUNDATION	TQ	TOP OF
FRTG	FRAMING	TJ	TRUSS JOIST
GALV	GALVANIZED	TS	TUBE STEEL
GA	GAUGE	TYP	TYPICAL
GDR	GIRDER	UNO	UNLESS NOTED OTHERWISE
GLB	GLUE-LAM BEAM	VF	VERIFY IN-FIELD
GWB	GYPSPUM WALL BOARD	VERT	VERTICAL
HGR	HANGER	WNF	WELDED WIRE FABRIC
HAS	HEADED WELDED STUD	W	WIDE FLANGE
HDR	HEADER	W/	WITH
HT	HEIGHT	W/O	WITHOUT
H8	HIGH STRENGTH		
H8B	HIGH STRENGTH BOLT		

## SPECIAL INSPECTION

**BOLTS INSTALLED IN CONCRETE**  
DURING INSTALLATION OF BOLTS AND FLACING OF CONCRETE AROUND SUCH BOLTS NOTED ON THE DRAWINGS AS REQUIRING SPECIAL INSPECTION.

## SPECIAL INSPECTOR

**SPECIAL INSPECTOR**  
THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF A CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

**DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR**  
THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPLICABLE DESIGN DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND ANY OTHER DESIGNATED PERSONS ON A WEEKLY BASIS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF HIS KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISION OF THIS CODE.

## INSPECTION NOTES

REFER TO SECTION 1104 OF THE 2016 CBC FOR AMPLIFICATION OF THE FOLLOWING REQUIREMENTS. ALL SPECIAL INSPECTORS MUST SUBMIT FINAL REPORTS.

	SPECIAL INSPECTION REQUIRED	SPECIAL INSPECTION REQUIRED		
		YES	NO	N/A
<b>1. FOUNDATIONS:</b>				
A. COMPACTED FILL INCLUDING UTILITY TRENCHES.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. VISUAL EXAMINATION & APPROVAL OF ALL FOUNDATION EXCAVATIONS.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
C. CONTINUOUS INSPECTION OF PILE DRIVING AND/OR CAISSONS.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>2. CONCRETE:</b>				
A. CONTINUOUS INSPECTION & TEST CYLINDERS FOR CONCRETE OVER 2500 PSI.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. DURING THE TAKING OF TEST SPECIMENS AND FLACING OF ALL SHOTCRETE.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>3. REINFORCING AND PRESTRESSING STEEL:</b>				
A. FLACING OF REINFORCING.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. FLACING OF TENDONS		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
C. SAMPLING & TESTING OF STEEL (MILL REPORTS & IDENTIFICATION OF STEEL)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D. CONTINUOUS INSPECTION OF INSTALLATION OF REBAR COUPLERS		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
E. CONTINUOUS INSPECTION DURING STRESSING OF PT TENDONS		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F. FIELD MEASURED ELONGATION AND JACKING FORCE RECORDS		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
G. GROUTING OF POST-TENSIONED CONCRETE		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H. POST-TENSIONED TENDON PROTECTIVE WRAPPING		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4. MASONRY:</b>				
A. SAMPLING & TESTING OF MASONRY		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. SAMPLING & TESTING OF GROUT & MORTAR		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
C. CONTINUOUS INSPECTION		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D. PERIODIC INSPECTION		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>5. INSULATING CONCRETE FILL:</b>				
A. TEST & INSPECTIONS		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>6. WELDING:</b>				
A. ALL STRUCTURAL FIELD WELDING (INCLUDES DECKING)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. NON-DESTRUCTIVE TESTING OF MOMENT-RESISTING SPACE FRAMES		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
C. STRUCTURAL LIGHT GAGE METAL FRAMING		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>7. BOLTING:</b>				
A. HIGH STRENGTH BOLTING		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. EXPANSION BOLTS IN CONCRETE OR MASONRY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>8. STRUCTURAL STEEL:</b>				
A. MILL REPORTS & IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. SAMPLING & TESTING		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## NOTE:

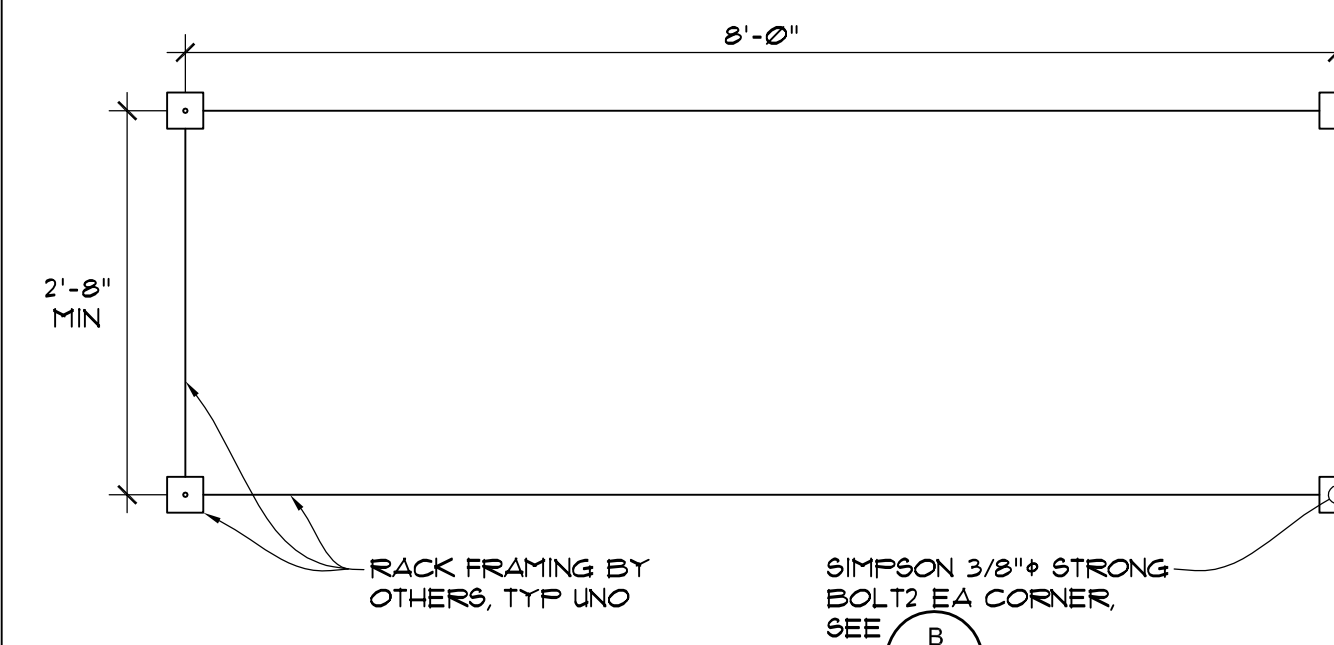
ALL TESTS & INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AGENCY. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTION UNLESS THE STRUCTURAL ENGINEER IS CONTRACTED TO DO SO.

A COPY OF ALL TESTING AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL.

IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SEE THAT THESE TESTS AND INSPECTIONS ARE PERFORMED.

## SEISMIC CRITERIA

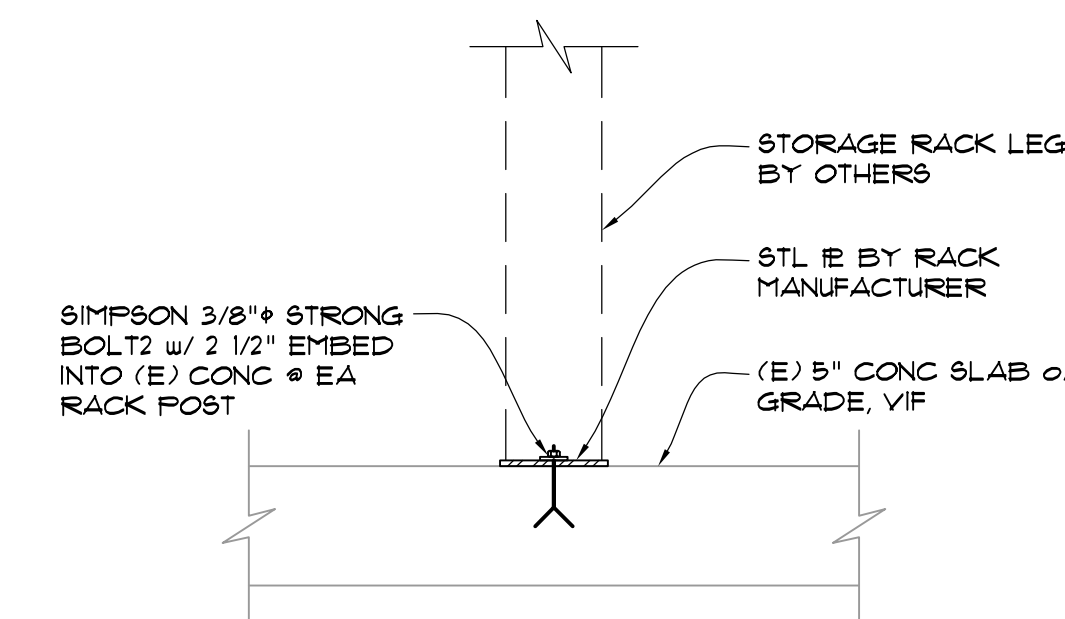
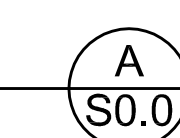
SITE CLASS = D  
SEISMIC RISK CATEGORY = D  
SITE COEFFICIENT F<sub>a</sub> = 1.243  
SITE COEFFICIENT F<sub>v</sub> = 1.024  
S<sub>s</sub> = 0.691g  
S<sub>1</sub> = 0.298g  
S<sub>m0</sub> = 0.266g  
S<sub>m1</sub> = 0.538g  
S<sub>d0</sub> = 0.511g  
S<sub>d1</sub> = 0.358g  
I = 15 (FOR RACK ANCHORAGE)



## TYPICAL RACK ANCHORAGE PLAN

### SECTION A

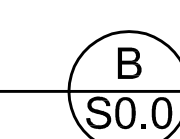
3/4" = 1'-0"



## TYPICAL RACK ANCHORAGE

### SECTION B

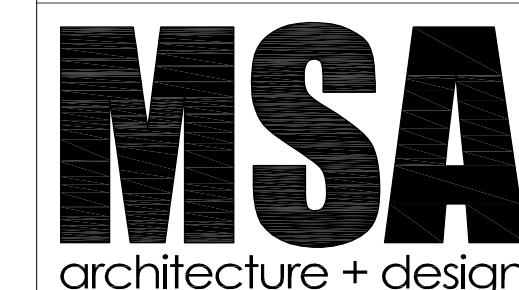
1 1/2" = 1'-0"



## CLIENT



## ARCHITECT

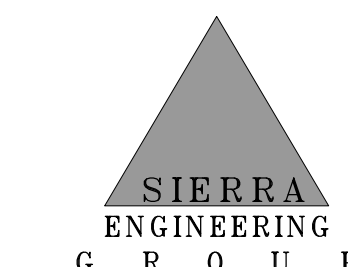


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## REGISTRATION



## CONSULTANT



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39812 MISSION BLVD., SUITE 100  
FREMONT, CA 94539  
FAX: 510.445.0440

## UNAUTHORIZED CHANGES

CLIENT SHALL NOT PERMIT ANY PERSON RETAINED, HIRED, CONSULTED OR OTHERWISE ENGAGED BY CLIENT, INCLUDING BUT NOT LIMITED TO GENERAL CONTRACTORS, SUBCONTRACTORS, SUPPLIERS, ARCHITECTS, ENGINEERS OR OTHER DESIGN PROFESSIONALS, TO MAKE ANY CHANGES TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY PROJECT ARCHITECT WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT.  
TO THE EXTENT ANY SUCH CHANGES ARE MADE WITHOUT PROJECT ARCHITECT'S PRIOR WRITTEN CONSENT, CLIENT RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.  
TO THE EXTENT CLIENT ENTERS ANY CONTRACTS FOR CONSTRUCTION, SUPPLY, ARCHITECTURAL, ENGINEERING OR OTHER DESIGN SERVICES, SAID CONTRACTS SHALL SPECIFICALLY PROHIBIT THE OTHER PARTY FROM MAKING ANY CHANGE OR MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN CONSENT OF PROJECT ARCHITECT AND WHICH FURTHER RELEASES, HOLDS HARMLESS AND INDEMNIFIES PROJECT ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS, LOSSES, DAMAGES, LIABILITIES, REASONABLE ATTORNEY'S FEES, COSTS OF SUIT AND ANY OTHER COST PERMITTED BY LAW WHICH ARISE DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

## ISSUE / REVISION

NO.	DATE	REVISION NAME
	4.19.19	ISSUE FOR PERMIT
1	6.10.19	REVISION 1
	9.13.19	BID SET

## PROJECT LOCATION

PET FOOD EXPRESS  
4710 Freport Blvd, Suite 12K-A  
Sacramento, CA 95822

## DRAWING TITLE

GENERAL NOTES,  
ABBREVIATIONS & DETAILS

SCALE: AS NOTED

PROJECT NUMBER: 19043.0

SHEET NUMBER:

S0.0