

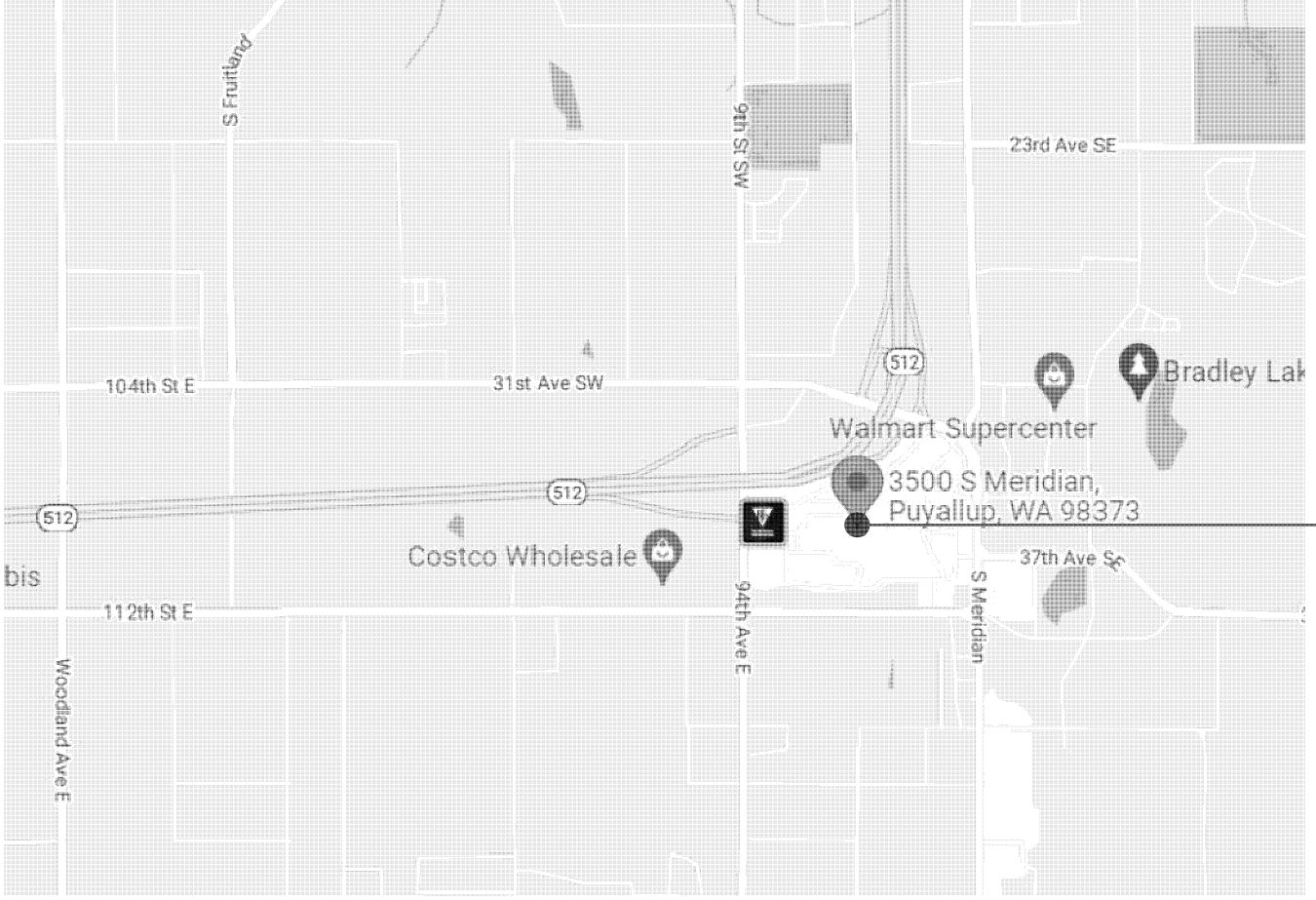
Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

**R-19 MIN. INSULATION ON THESE WALL FOR ENERGY CODE REQUIREMENTS. MUST HAVE ALL SPECS FOR PRODUCT BEING INSTALLED TO SHOW INSPECTOR PRIOR TO INSTALLING ON WALLS.**



Where the experience is *golden.*

## Interior Build-Out Goldfish Swim School - Puyallup South Hill Mall - Unit 9 3500 South Meridan Puyallup, WA 98373



PROJECT LOCATION



### Schedule of Special Inspections

Per IBC Section 1704 & 1705 to be done by General Contractor selected Special Inspector. The Special Inspector is to have qualifications as described by section 1704.2.1 and provide all required documents per 1704 & 1705. General contractor is responsible for scheduling the special inspection and having a building official representative on site while the inspection is taking place.

### Deferred Submittal Note:

The registered design professional is Frank Martin, Architect.

These construction documents were produced for compliance with the construction codes in effect at time of permit submittal. All engineers, contractors and suppliers involved with this project shall comply with the same codes. Issued and approved code modifications and / or boards of appeals ruling and whenever required shall provide shop drawings and submittals clearly describing compliance to the registered design professional in responsible charge for review and approval.

Deferred submittal items shall include:

Interior finish flame spread and smoke development requirements.

**Requires Separate Permit:**  
Sprinkler Shop Drawings and Fire Alarm System to be reviewed under separate permit.

The fire suppression system in the building shall comply with NFPA and / or all local codes. Documents shall be designed by others, reviewed and approved by the architect. Fire suppression system is existing, any modifications shall be done by certified fire protection engineer. All new sprinklers are to be located at the underside of the existing bar joists. All sprinkler heads are to be corrosion resistant heads at all pool / wet locations.

### Brand Standard Compliance Note:

These construction documents adhere to the Goldfish Swim School brand standard. Expectations are that the space be constructed per design specifications. Unless noted otherwise, or documented approval has been presented from Goldfish Swim School Corporate, substitutions are not permitted.

The disinfection systems used are Nex-Gen20 chlorinator and Acid Rite feeding systems are closed systems and will not cause a spill. See Engineering Plan Review Responses #1 (4).

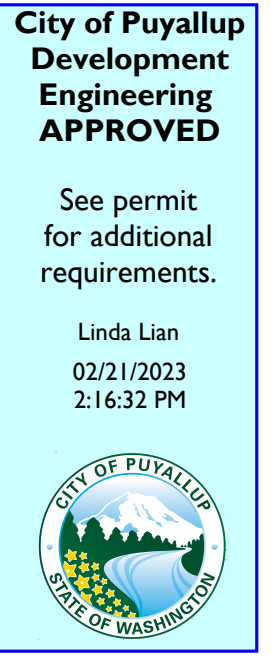
If a sewer sampling tee is not installed on the existing sewer lateral one will be installed prior to granting occupancy. See City Standard 04.03.04 shown on P201 of this plan set

As noted the flow control valve is required to be set at 50 GPM. As noted on P201 of this plan set

The disposal of all sand filter media, replaced every 7 - 8 years will be disposed in the trash as indicated by the applicant. See Engineering Plan Review Responses #1 (5).

Installation, filling and draining of the pool shall comply with applicable county health department requirements. The pool water shall be dechlorinated and have a neutral PH prior to entering the sewer system. The dechlorinator filter unit will be installed to filter backwash water and pool water when drained to the sanitary sewer system. See Engineering Plan Review Responses #1 (8).

The pool cannot be connected to the Fruitland Mutual water system unless the water service is protected by a reduced pressure backflow assembly (RPBA).  
Installation, filling, and draining of the pool shall comply with applicable county health department requirements. Pool water shall be dechlorinated and have a neutral PH prior to entering the storm sewer system



**TO BE PRINTED OUT FOR INSPECTORS:**  
1. PLANS (97 PAGES)  
2. WSEC ENVELOPE FORMS (4 PAGES)  
3. STRUCTURAL CALCS (243 PAGES)  
4. GRIFFOLYN PRODUCT SPECS (2 PAGES)  
5. SPECS FOR SPRAY FORM TO BE USED.  
6. WSEC MECHANICAL SUMMARY FORMS.  
7. WSEC ELECTRICAL SUMMARY FORMS.

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G.003	Life Safety Plan and Building Code Information	o	o	o	o	o	o
A.001	Architectural Abbreviations & Symbols	o	o	o	o	o	o
A.002	Typical Fire Resistant Joint Systems	o	o	o	o	o	o
A.003	Typical Through Penetration Firestop Systems	o	o	o	o	o	o
A.004	Partition Wall Types	o	o	o	o	o	o
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A.007	Architectural Specifications (Continued)	o	o	o	o	o	o
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S0.2	Structural Notes		o	o			o
S0.3	Typical Details		o	o			o
S0.4	Testing and Inspection Notes		o	o			o
S0.5	Testing and Inspection Notes		o	o			o
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**FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS MIN. PLAN SIZE 24 X 36**

**THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING DOCUMENTS MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.**

## Project Team

**Tenant (Client)**  
Goldfish Swim School - Seattle, L.L.C.  
16404 NE 74th St, Ste E-105  
P.630.222.2680

**Architect**  
Dorchen/Martin Associates Inc. (Frank Z. Martin, A.I.A.)  
29895 Greenfield Rd., Suite #107  
Southfield, MI 48076  
P. 248.557.1062 F. 248.557.1231

**GFSS Construction Advisor**  
Steve Marszalek  
Masher/Dolan Inc.  
2725 Nakota  
Royal Oak, MI 48073  
P.248.258.9453 x 108

**BUILDING/PLUMBING/MECHANICAL PERMIT 2018 CODES**

**General Contractor**  
T.B.D.

**M.E.P. Engineer**  
MEEC (William Vernier - Mech. and Plumbing Engineer)  
(Jordan Koenig - Electrical Engineer)  
1415 Goldsmith  
Plymouth, MI 48170  
P.734.454.5516 F. 734.454.5517

**Structural Engineer**  
AHBL, Inc. (Andy Pflueger)  
2215 North 30th Street, Suite 200  
Tacoma, WA 98403  
P. 253.383.2422

**Pool Consultant**  
WT, LLC. (Bogdan Zamkotowicz)  
2675 Pratum Ave.  
Hoffman Estates, IL 60192  
P. 224.293.9055 F. 224.293.6466

**Furniture / Fixture / Equipment**  
One Source Retail (Claudia)  
111 Winnebago Street  
St. Louis, MO 63118  
P. 314.720.1780

**Fire Suppression:**  
Existing - Modify as required - G.C. to verify existing system type and provide documentation as required by city.

**Fire Alarm:**  
Existing - Modify as required - G.C. to verify existing system type and provide documentation as required by city.

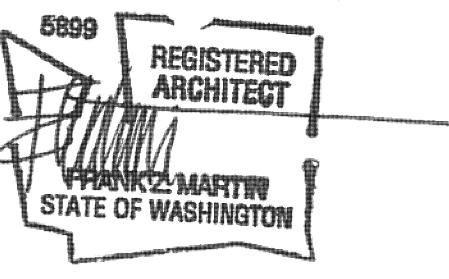
**Special Inspection Company**  
To be determined by G.C. - G.C. to verify qualifications with city

**Roofing Company**  
To Be Certified To Work In Existing Roofing Material

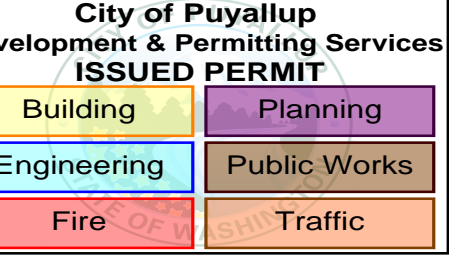
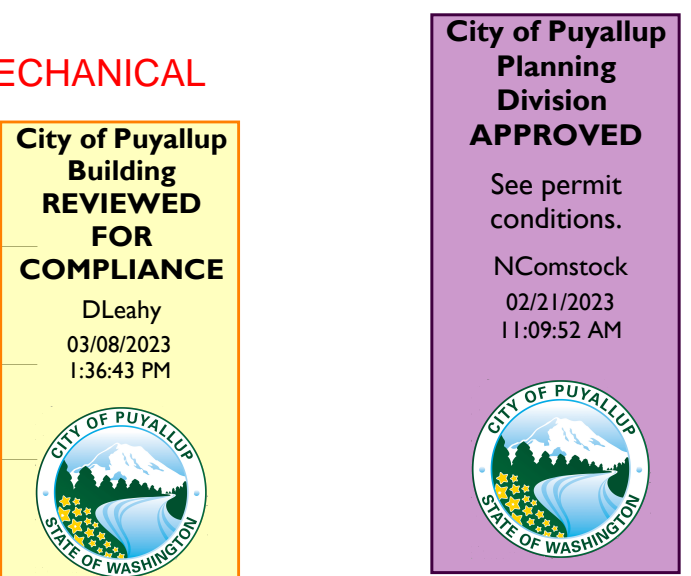
**Property Manager**  
Kevin Hovey  
3500 South Meridian Rd.  
Puyallup, WA 98373  
Phone: 253-840-2828  
Email: propertymanager@southhillmall.com

**Tenant Coordinator:**  
Tom Eft  
5577 Youngstown - Warren Road  
Niles, OH 44446  
Phone: 330-747-2661, X-209  
Email: tefft@cafaro.company.com

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Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



issue / revision date
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02-09-23 Elect. Review Comments

drawn by	checked by
Goldfish Swim School South Hill Mall - Unit 900-30 3500 South Meridan Puyallup, WA 98373 Title Sheet	
project:	sheet title:

**dma**  
DORCHEN / MARTIN  
Dorchen/Martin Associates, Inc.  
Architects/Planners  
29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
www.dorchenmartin.com  
job number 22006 sheet number G.001

Goldfish Swim School GC/Franchisee Construction Responsibility Matrix <small>See A.800 for additional information</small>					
Item/Description	Location	Supplied By	Supplier	Installed By	Note/Comment
Baby Change	B.F. Restrooms	GC	Koala Kare	GC	
Coat Hooks / Drying Hooks	Changing Areas	GC	Liberty Hardware	GC	
Slatwall Hooks and Shelves	Changing Areas	GC	ULINE (www.uline.com) or equivalent	GC	Refer to plan elevations and hardware notes
Swim Suit Dryer	Changing Areas	GC	Suitemate	GC	
Changing Room Benches	Changing Areas	Franchisee	One Source Retail (OSR)	GC	
Change Table	Changing Areas	Franchisee	One Source Retail (OSR)	GC	
Cubbies	Changing Areas	Franchisee	One Source Retail (OSR)	GC	
Fish Tank Surround	Changing Areas	Franchisee	One Source Retail (OSR)	GC	
Hair Dryer Station	Changing Areas	Franchisee	One Source Retail (OSR)	GC	
Surf Board Bench	Changing Areas	Franchisee	One Source Retail (OSR)	GC	
Chalk Board	Changing Areas	GC	Marsh Industries, Inc.	GC	Purchase and install or use option to field fabricate and paint. Verify size and placement with Franchisee
Cork Board	Changing Areas	GC	Marsh Industries, Inc.	GC	4' X 8' 1/16" Nat Cork on 1/2" Fiberboard - Color (Natural) Trim w 1X.
Fish Tank + Supplies	Changing Areas	Franchisee		GC/Fish Tank Supplier	GC to coordinate and confirm power requirements
Bathroom Misc. Signs	Changing Areas	GC	GSS Custom sign vendor	GC	Choose from list, mandatory and optional
Dehumidification System	Equipment Room	Franchisee	Seresco via Thermalnetics	GC	GC to own the delivery, installation, and full operation of this unit
UV Filtration	Equipment Room	Franchisee		GC/Vendor	GC to coordinate delivery, provide leads and make final connections as required
ChlorKing	Equipment Room	Franchisee	ChlorKing	GC/Vendor	GC to coordinate delivery, provide leads and make final connections as required
Lochinvar Boiler Systems	Equipment Room	Franchisee	Lochinvar	GC	GC to own the delivery, installation, and full operation of this unit
Exterior Sign(s)	Exterior	Franchisee	Anchor Signs	GC/Vendor	GC to install whip/ disconnect and timer and photo cell per electrical drawings
Interior Signage Package	Interior	Franchisee		GC	
Retail Slatwall & Trim	Lobby	GC	ULINE (www.uline.com) or equivalent	GC	
Reception Counter	Lobby	Franchisee	One Source Retail (OSR)	GC	
Phone System	Lobby	Franchisee		Franchisee/GC	GC to coordinate and confirm power requirements
Security Cameras	Office	Franchisee		Franchisee/GC	GC to coordinate and confirm power requirements
Security Camera / Audio / Video Wire	Per Franchisee	Franchisee		GC	
Phone / Data	Per Franchisee	GC		GC	
Pool Deck Shelving	Pool	GC		GC	confirm blocking and placement with Franchisee prior
Wet side storage	Pool	GC		GC	confirm blocking and placement with Franchisee prior
Pool Coping					
Perimeter Caulking	GC	GC		GC	
Mural Wall Graphic	Pool	Franchisee	GSS Vendor - Joe	GC	GC to coordinate access and timing, prepare walls (final blue paint up to 11'-0") prior to arrival of muralist, muralist to sketch wave if painter is unable; Any deviation from standard mural must gain approval from GSS
Shower Wall Glass	Pool	GC	Local Supplier	GC	Corporate prior to work on approved wall only
Shower Wall Glass Hooks	Pool	GC	Local Supplier	GC	2 per panel
Level & Skill Ribbon Holder	Pool	Franchisee	One Source Retail (OSR)	GC	
Shower Bench (Trex)	Pool	Franchisee	One Source Retail (OSR)	GC	
Shower Wall Metal Structure	Pool	Franchisee	One Source Retail (OSR)	GC	
Backstroke Flags	Pool	Franchisee		GC	GC to confirm and coordinate blocking to attach securely, to be installed 15' from end of pool
Emergency Pool Phone	Pool	Franchisee		GC	
Steel Column Wrap	Pool	GC	Resilite	GC	"Royal Blue" COLW2812; Verify Size and Shape before ordering (if applicable)
Lockers Staff	Staff Area	Franchisee	lockers.com	GC	
Microwave Oven	Staff Area	Franchisee		GC	
Cabinets / Shelving	Staff Area	GC		GC	
Counters	Staff Area	GC	Local Supplier	GC	
Drying Hooks	Staff Area	GC	Liberty Hardware	GC	
Refrigerator / Freezer	Staff Area	Franchisee		GC	
Palm Tree	Viewing Area	GC	Tropical Expressions, Contact JackMcGuire @ Tropical Expressions P:732.899.1733	GC	Verify Height prior to ordering, must be 12' (or higher), drill bolts and set into floor
Seating Area Chairs	Viewing Area	Franchisee	One Source Retail (OSR)	GC	
Seating Area Tables	Viewing Area	Franchisee		GC	
T.V. / Monitor Brackets	Viewing Area	Franchisee		GC	
<b>General Note:</b> Unless specifically excluded, GC to provide all related installation materials (screws, fasteners, tools, glue, blocking, brackets, etc) for all construction including electrical connections, blocking, other mechanical means					
See sheet A.800 for additional information regarding accessories and specifications					

Goldfish Swim School <span style="float: right;">Revised 4-9-15</span>	
Furniture & Fixtures to be Supplied by O.S.R.	
Item/Description	
Reception Counter	
Fish Tank Surround / OSR design; Fish Tank by Others	
Hair Dryer Station / Hair Dryer Station W/ 2 Surf Board Benches; new roof design; no hair dryers	
Seating Area Chairs / Light Blue Plastic - Magis Easy Chair by (12-16 week lead time)	
Cubbies / OSR design re-engineered (priced per individual cubby section) Verify quantities with Franchisee	
Trex Bench w/ Trex built mounting brackets - Vintage Lantern color	
Changing Table / GR design re-engineered; 25-1/2" wide	
Level & Skill Ribbon Holder / GR design; laminated	
Shower Bench / Metal Frame - Pool area	
Changing Room Benches (20' x 42')	
Changing Room ADA Bench (24' x 48')	

Goldfish Swim School <span style="float: right;">Revised 4-9-15</span>	
Construction Materials to be Supplied by O.S.R.	
Item/Description	
Corrugated Roof Material / 26" wide x 12' long (QTY to be verified by GC)	
Trex For Shower Bench / 16' long pieces - OSR provides metal structure and trex deck materials - GC to supply fasteners. (General contractor is responsible to provide and install glazing once the structure is installed, graphic logo by owner.)	

**General Notes:**

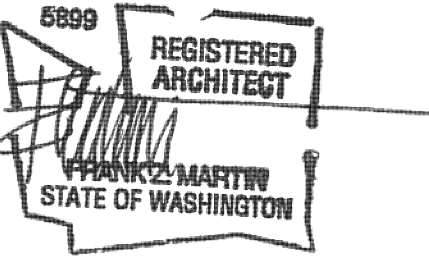
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CURRENT SHOP DRAWINGS AND INSTALLATION MANUALS/INSTRUCTIONS FROM 'ONE SOURCE RETAIL' SUPPLIED ITEMS.
- IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO UNLOAD, STORE, PROTECT, AND INSTALL ALL ITEMS SUPPLIED BY OSR.
- OSR IS TO SUPPLY TAILGATE LIFT FOR UNLOADING OF SHIPMENTS.

Goldfish Swim School <span style="float: right;">Revised 4-9-15</span>	
Long Lead Time Products/ Materials	
Item/Description	Ordering Lead Times
Door and Hardware	6 - 20 Weeks
Rosa Mosa Box Tile	6 - 20 Weeks
Pool Bullnose Hand Holds	6 - 20 Weeks
Pool Pump	6 - 20 Weeks
Aaon Dehumidification Unit (By Owner)	6 - 20 Weeks (After Approved Shop Drawings)
OSR Millwork	6 - 20 Weeks (After Approved Shop Drawings)
Light Fixtures (By Owner)	6 - 20 Weeks (After Approved Submittals)
Ductsox Fabric Mechanical Duct	6 - 20 Weeks (After Approved Submittals)
ChlorKing Pool Filtration Unit (By Owner)	6 - 20 Weeks
Lochinvar (Boiler and Water Heater)	6 - 20 Weeks (After Approved Submittals)

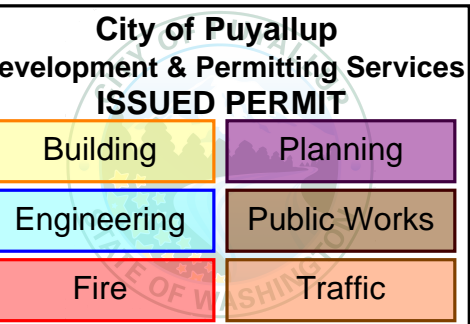
START UPS - COORDINATED BY GC / SUBCONTRACTOR  
 LOCHINVAR - UNLOADED AND INSTALLED BY SUBCONTRACTOR / LOCAL REP TO START - UP  
 CHLOR KING - BY VENDOR / PIPING BY VENDOR  
 SERESCO - INSTALLED BY SUBCONTRACTOR / FIELD START - UP = 2-3 WEEKS AFTER INSTALLATION (PAPERWORK REQUIRED)  
 UV - BY VENDOR / PIPING BY VENDOR

AAON DEHUMIDIFIER - SEE SHOP DRAWINGS  
 LOCHINVAR - SEE SHOP DRAWINGS  
 EXTERIOR SIGNAGE - BY OWNER  
 WOOD SIGNAGE - BY OWNER

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 Goldfish Swim School  
 H&H Swim School  
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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373  
 Responsibility Matrix

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

**dma**  
 DORCHEN / MARTIN  
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 Architects/Planners  
 29895 Greenfield Rd., Suite 107  
 Southfield, Michigan 48076  
 (248) 557-1062  
 www.dorchenmartin.com

job number 22006 sheet number G.002

**PRCTI20221793**

**General Building Information**

**City of Puyallup Codes and Regulations**

- 2018 International Building Code (IBC) as Amended by the State of Washington
- 2018 International Residential Code (IRC) as Amended by the State of Washington
- 2018 International Existing Building Code (IEBC) as Amended by the State of Washington
- 2018 Washington State Commercial Energy Code
- 2018 Washington State Residential Energy Code
- 2009 ICC A117.1 Barrier - Free Standard
- 2018 International Fire Code (IFC) as Amended by the State of Washington
- 2017 National Electric Code (NEC)
- 2018 Uniform Plumbing Code (UPC) as Amended by the State of Washington
- 2018 International Mechanical Code (IMC) as Amended by the State of Washington
- 2018 International Fuel Gas Code (IFGC)
- 2018 International Swimming Pool and Spa Code
- Fire Protection/ Suppression - NFPA 130

**Tenant Space Information:**

Type of Construction: Type II - B (2B)  
 Use Type/ NFPA Occupancy: Non-Separated Mixed Occupancy - A Assembly  
 Group: A-4 Assembly  
 Zoning Classification: CCX - Community Commercial Mixed Use  
 Business Type: Community Support Service  
 Allowable Area: 38,000 Gross SF.  
 Project Area: 8,613 SF.  
 Number of Floors: 1  
 Design Occupant Load: 281 Occupants  
 Actual Occupant Load: N/A  
 Fire Alarm System: YES  
 Sprinkled: YES (Existing)  
 Jurisdiction: Puyallup, WA

**Total Occupancy:**

Maximum floor area allowances per occupant from IBC 2018 Table 1004.5 - Actual occupancy loads will be less, refer to actual occupancy lists for calculations.

**Occupant Loads:**

Design Occupant Load:  
 Swimming Pools  
 Pool (50 Gross)  $1,827 \text{ SF} / 50 = 36.54 = 37$   
 Deck (15 Gross)  $1,410 \text{ SF} / 15 = 94.00 = 94$   
 Business Areas/ Circulation  
 Locker Room  $1,468 \text{ SF} / 150 = 9.79 = 10$   
 B.F. Toilets, Showers and Changing Area  
 Viewing Area Seating Concentrated  $1,773 \text{ SF} / 50 = 35.46 = 36$   
 Staff Area Unconcentrated  $602 \text{ SF} / 7 = 86 = 86$   
 Retail Area Unconcentrated  $85 \text{ SF} / 15 = 5.67 = 6$   
 Mechanical / Storage  $57 \text{ SF} / 60 = .95 = 1$   
 Reception  $866 \text{ SF} / 300 = 2.89 = 3$   
 Reception  $38 \text{ SF} / 5 = 7.6 = 8$   
 Total Occupancy: = 281

**Plumbing Fixture Count:**

Minimum number of fixtures. Plumbing fixtures shall be provided for the type of occupancy and in the minimum number shown in Table 2902.1. Types of occupancies not shown therein shall be considered individually by the building official.

Male Occupants (281) / 2 = (141) Occupants

Water Closets  
 1:75 first 1,500 = 2 Fixtures Required / 2 Fixtures Provided  
 1:200 remaining

Lavatories  
 1:200 = 1 Fixture Required / 1 Fixture Provided  
 Female Occupants (281) / 2 = (141) Occupants

Water Closets  
 1:40 first 1,520 = 4 Fixtures Required / 4 Fixtures Provided  
 1:60 remaining

Lavatories  
 1:150 = 1 Fixture Required / 4 Fixtures Provided

Drinking Fountains  
 1:1,000 = 1 Fixture Required / 2 Fixtures Provided

Other  
 1 Service Sink Required / 1 Service Sink Provided

**Automatic Sprinkler System**

- Fully automatic sprinkler system for (A-4) use, to be installed for this build-out
- Automatic sprinklers are not required by 903.2.1.3 for (A-4) use 12,000 SF or less but sprinklers are required by that section for a calculated A occupancy that exceeds 300.
- No Mechanical Equipment exceeds 400,000 btu/hr

**Means of Egress (Table 1017.2):**

Use Group (A-4) 250' (With Sprinkler System)  
 Per Section 1017.1 - Exit Access travel to exit, or exit passageway... shall not exceed distances given in Table 1017.2

USE	TOTAL (S.F.)	CALC. OCCUPANTS
SWIMMING POOL RECREATION: 50 SF/OCCUPANT	1,827	37
SWIMMING POOL DECK RECREATION: 15 SF/OCCUPANT	1,410	94
CHANGING AREA / SHOWERS / TOILET ROOMS RECREATION: 50 SF/OCCUPANT	1,773	36
VIEWING AREA CONCENTRATED RECREATION: 7 SF/OCCUPANT	602	86
OFFICE AREAS/ CIRCULATION BUSINESS: 150 SF / OCCUPANT	1,414	10
RETAIL AREA MERCANTILE: 60 SF / OCCUPANT	57	1
MECH. / STORAGE AREAS STORAGE: 300 SF / OCCUPANT	810	3
RECEPTION CONCENTRATED STANDING: 5 SF / OCCUPANT	38	8
STAFF AREA UNCONCENTRATED RECREATION: 15 SF / OCCUPANT	85	6
<b>OCCUPANT LOAD</b>		<b>281</b>

**REQUIRED EGRESS WIDTH**

\*OCCUPANCY BASED 2018 IBC TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

**BUILDING EGRESS**  
 TOTAL EGRESS WIDTH REQUIRED:  
 (281) MAX. INTERIOR OCCUPANT x 0.2" = 56.2"  
 TOTAL EGRESS WIDTH PROVIDED:  
 1. (2) 36" DOOR (MAIN ENTRY - EXIT 1) = 68"  
 2. 36" DOOR (EXIT #2) = 34"  
 TOTAL EGRESS WIDTH PROVIDED = 102"  
**MAIN ENTRANCE**  
 WIDTH REQUIRED (1/2 OCCUPANT LOAD)  
 (281) INTERIOR OCCUPANTS / 2 = (141) \* 0.2" = 28.2"  
 CLEAR WIDTH PROVIDED = 34"

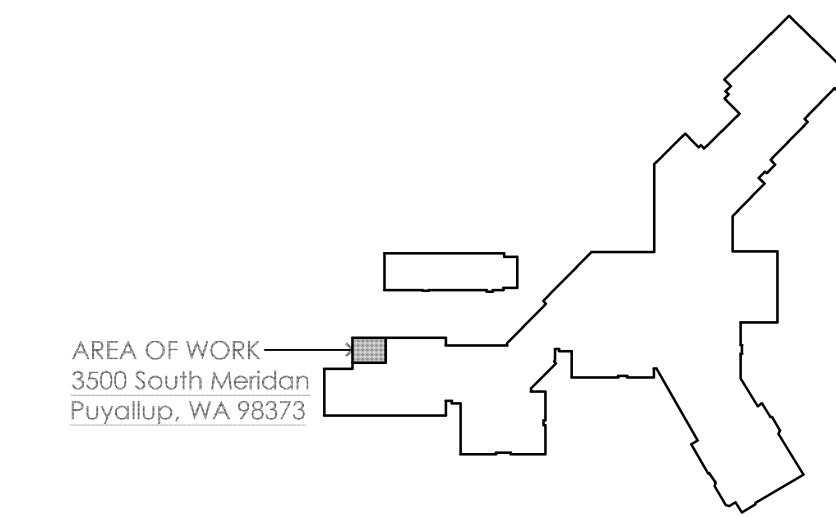
**EXIT TRAVEL DISTANCE**

EXIT TRAVEL DISTANCE (PER IBC 2018 TABLE 1017.2)

OCCUPANCY	WITHOUT SPRINKLER SYSTEM	WITH SPRINKLER SYSTEM
A,E,F-1,M,R,S-1	200 FT	250 FT
I-1	NOT PERMITTED	250 FT
B	200 FT	300 FT
F-2,S-2,U	300 FT	400 FT
H-1	NOT PERMITTED	75 FT
H-2	NOT PERMITTED	100 FT
H-3	NOT PERMITTED	150 FT
H-4	NOT PERMITTED	175 FT
H-5	NOT PERMITTED	200 FT
I-2, I-3	NOT PERMITTED	200 FT
I-4	150 FT	200 FT

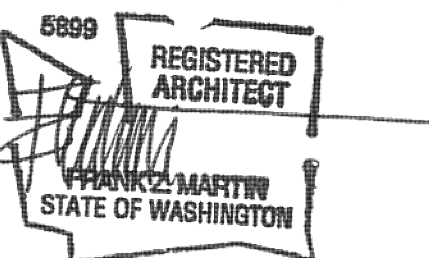
**Building Key Plan**

No Scale



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**City of Puyallup**

**Development & Permitting Services**

**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**Client**

Goldfish Swim School  
 H&H Swim School  
 Puyallup, WA  
 F.A. #272

**Brand Standards**

All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



**issue / revision date**

- 10-07-22 Staggered Review
- 11-07-22 Preliminary Budget Review
- 11-18-22 DOH Review
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- 12-09-22 Addendum #1
- 01-11-23 Owner Revision
- 02-09-23 City Review Comments
- 02-09-23 DOH Review Comments
- 02-09-23 Elect. Review Comments

**drawn by**

**checked by**

Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373  
 Life Safety Plan and Building Code Information

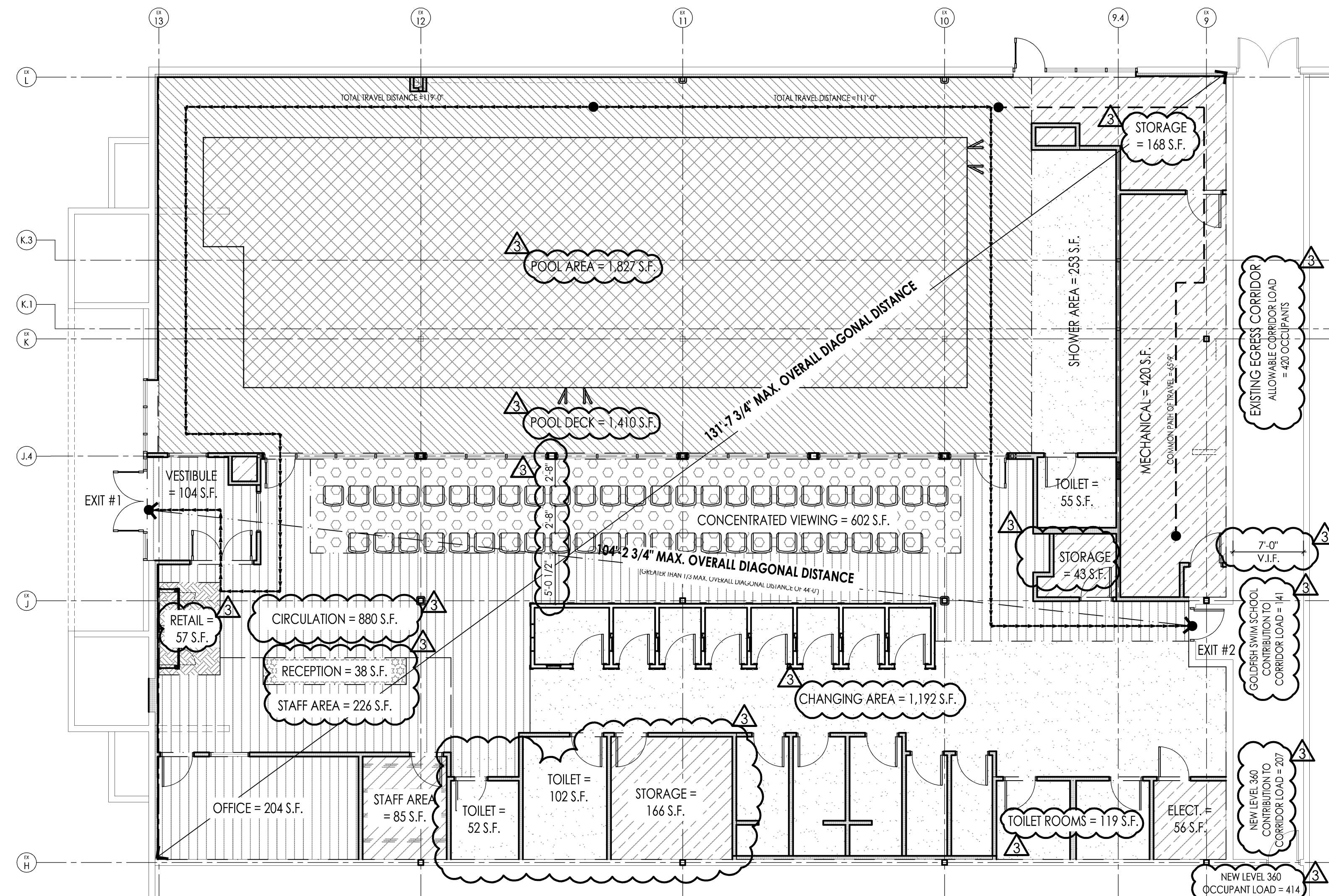
**project:**

**sheet title:**

**dma**  
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 Dorchen/Martin Associates, Inc.  
 Architects/Planners  
 29895 Greenfield Rd., Suite 107  
 Southfield, Michigan 48076  
 (248) 557-1062  
 www.dorchenmartin.com

job number sheet number

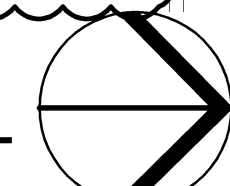
22006 G.003

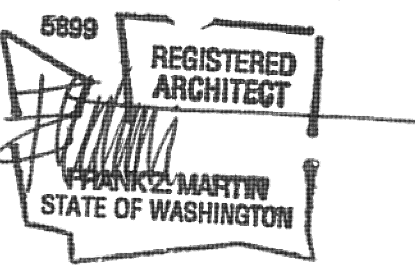


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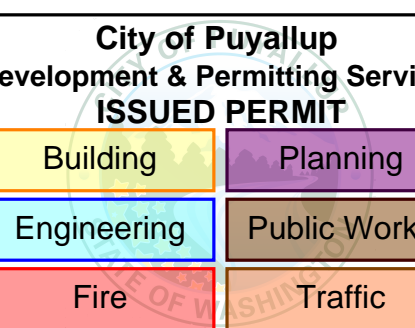
**Life Safety Plan**

1/8" = 1'-0"





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Client: Goldfish Swim School, H&H Swim School, Puyallup, WA, F.A. #272

Brand Standards: All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



Issue / revision date: 10-07-22 Staggered Review, 11-07-22 Preliminary Budget Review, 11-18-22 DOH Review, 11-21-22 Building Permit Review, 12-01-22 Revised Permit, 12-09-22 Addendum #1, 01-11-23 Owner Revision, 02-09-23 City Review Comments, 02-09-23 DOH Review Comments, 02-09-23 Elect. Review Comments

drawn by: checked by:

Goldfish Swim School, South Hill Mall - Unit 900-30, 3500 South Meridian, Puyallup, WA 98373. Architectural Abbreviations & Symbols. project: sheet title:

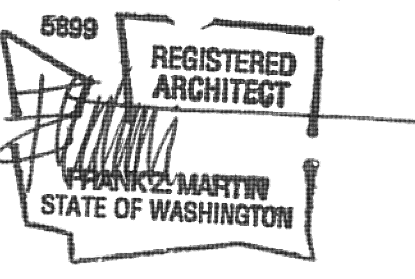
dma DORCHEN / MARTIN Architects/Planners, 29995 Greenfield Rd., Suite 107, Southfield, Michigan 48076, (248) 557-1062, www.dorchenmartin.com, job number: 22006, sheet number: A.001

ARCHITECTURAL ABBREVIATION LIST

ARCHITECTURAL SYMBOLS

Main table containing architectural abbreviations and symbols. Columns include Abbreviation, Description, Symbol, and Description. It lists terms like AIR CONDITIONING & VENTILATING, ARCHITECT-ENGINEER, ANCHOR BOLT, etc., and symbols for PROJECT NORTH, COLUMN CENTER LINES, FLOOR ELEVATION, etc.

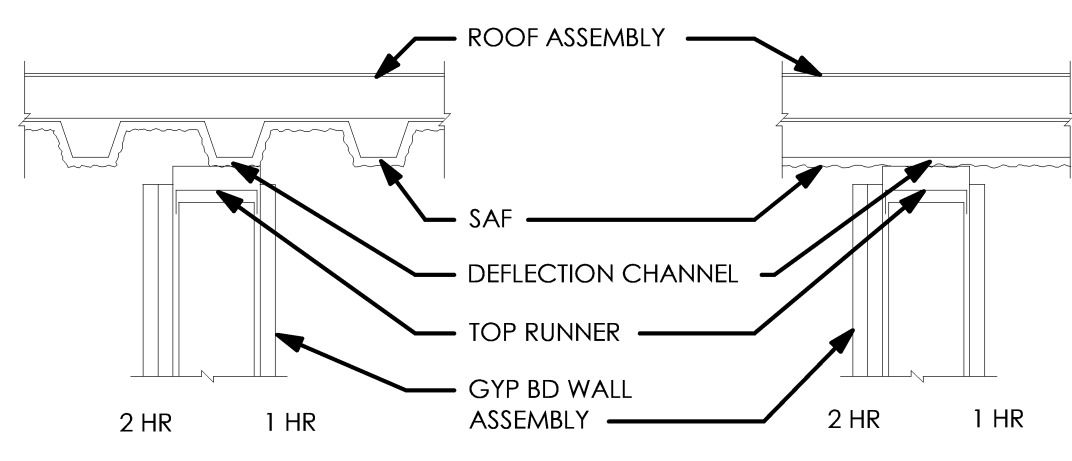
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City of Puyallup Development & Permitting Services  
**ISSUED PERMIT**

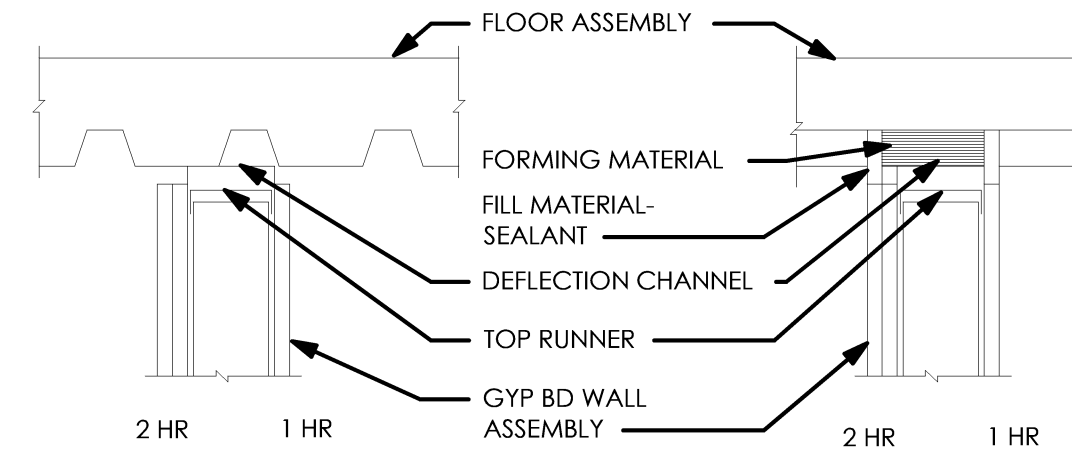
Building	Planning
Engineering	Public Works
Fire	Traffic



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 3/4"

ROOF: STL DECK W/ SAF  
WALL: GYP BD/STRAIGHT CUT  
FILL MATERIAL: SEALANT

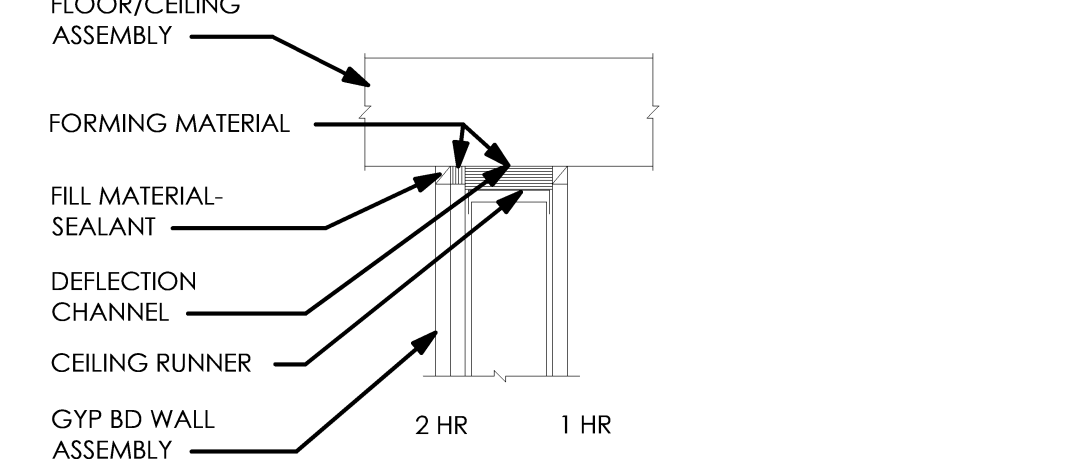
**1** Gyp. Brd. Wall @ Roof  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 3/4"

FLOOR: CONC & STL DECK  
WALL: GYP BD/STRAIGHT CUT  
FILL MATERIAL: SEALANT

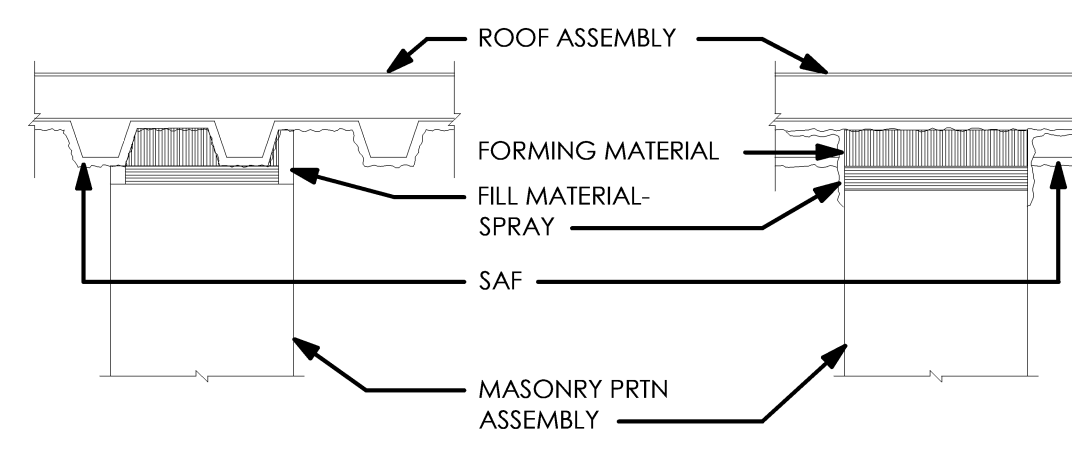
**4** Gyp. Brd. Wall @ Floor  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 1"

FLOOR: FORMED CONC  
WALL: GYP BD/STRAIGHT CUT  
FILL MATERIAL: SEALANT

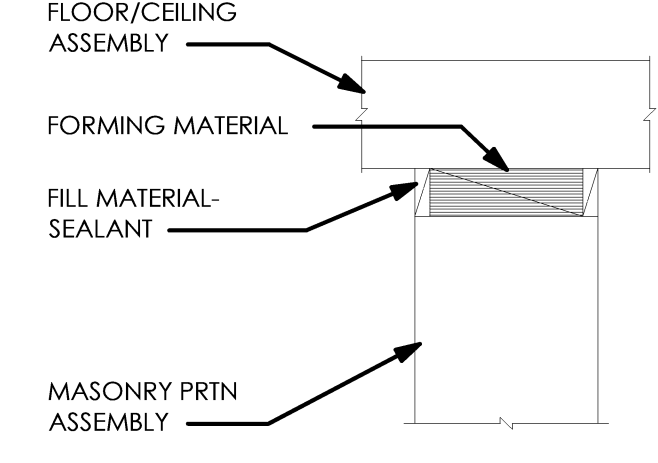
**7** Gyp. Brd. Wall @ Floor/Clg  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 1"

ROOF: STL DECK W/ SAF  
PRTN: MASONRY  
FILL MATERIAL: SPRAY

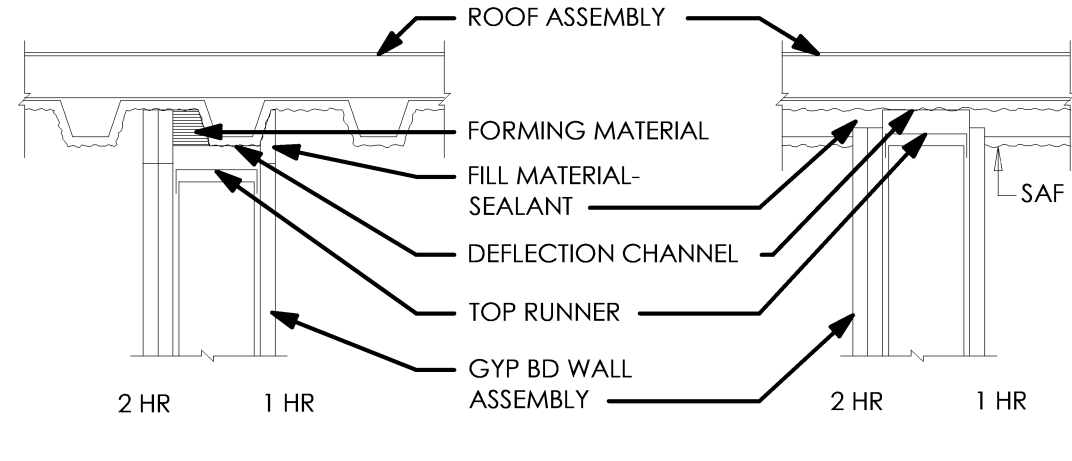
**10** CMU Wall @ Roof  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 2"

FLOOR: FORMED CONC  
PRTN: MASONRY  
FILL MATERIAL: SEALANT

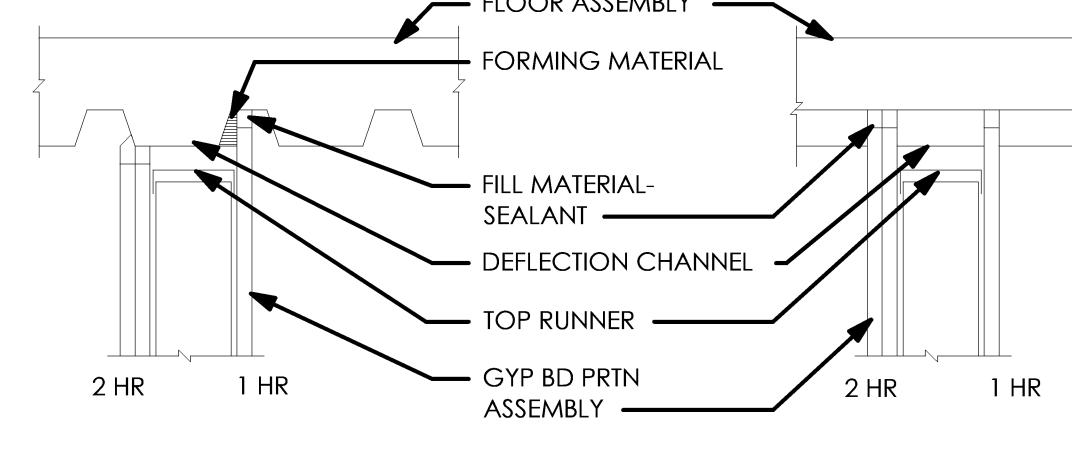
**13** CMU Wall @ Floor/Clg.  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 3/4"

FLOOR: CONC & STL DECK  
PRTN: GYP BD COPE  
FILL MATERIAL: SEALANT

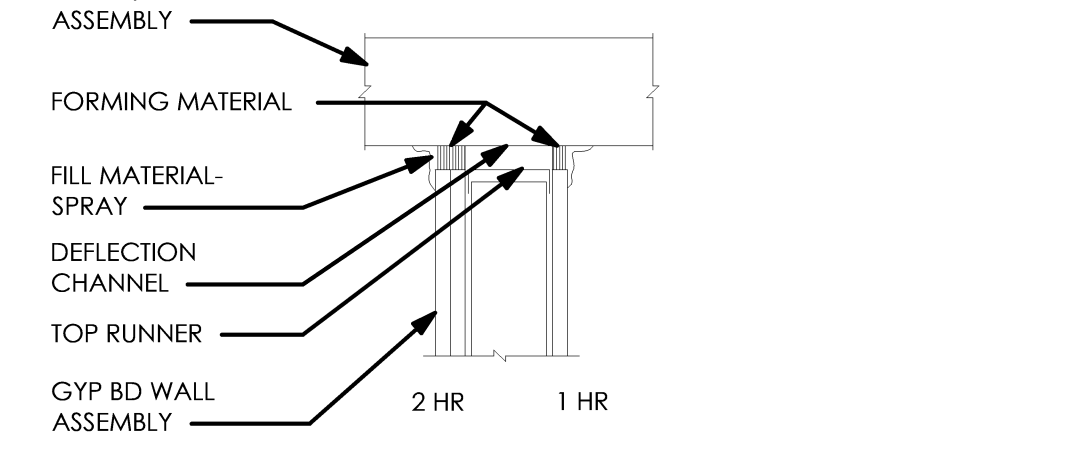
**2** Gyp. Brd. Wall @ Roof  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 3/4"

FLOOR: CONC & STL DECK  
PRTN: GYP BD COPE  
FILL MATERIAL: SEALANT

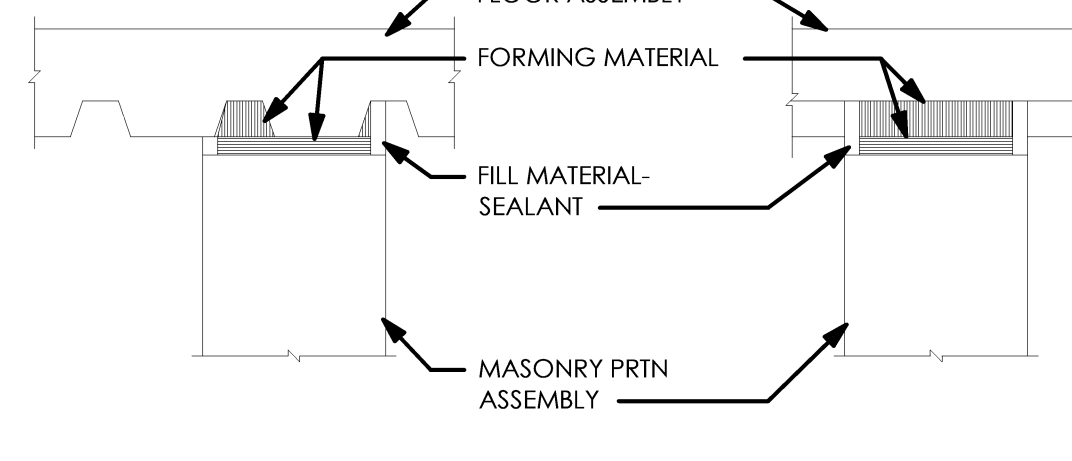
**5** Gyp. Brd. Wall @ Floor  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 1"

FLOOR: FORMED CONC  
PRTN: GYP BD/STRAIGHT CUT  
FILL MATERIAL: SPRAY

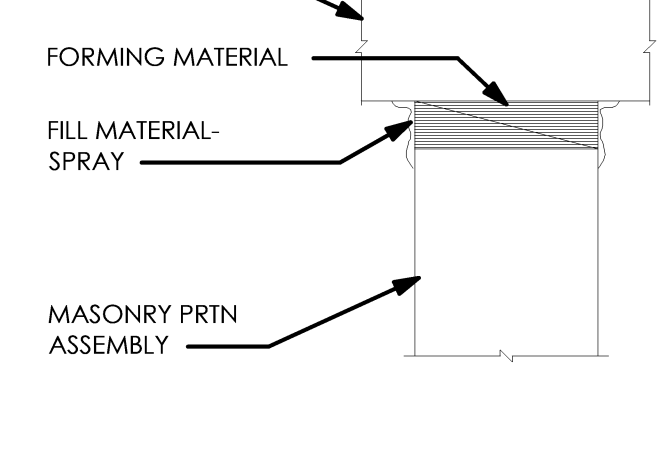
**8** Gyp. Brd. Wall @ Floor/Clg.  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 3/4"

FLOOR: CONC & STL DECK  
PRTN: MASONRY  
FILL MATERIAL: SEALANT

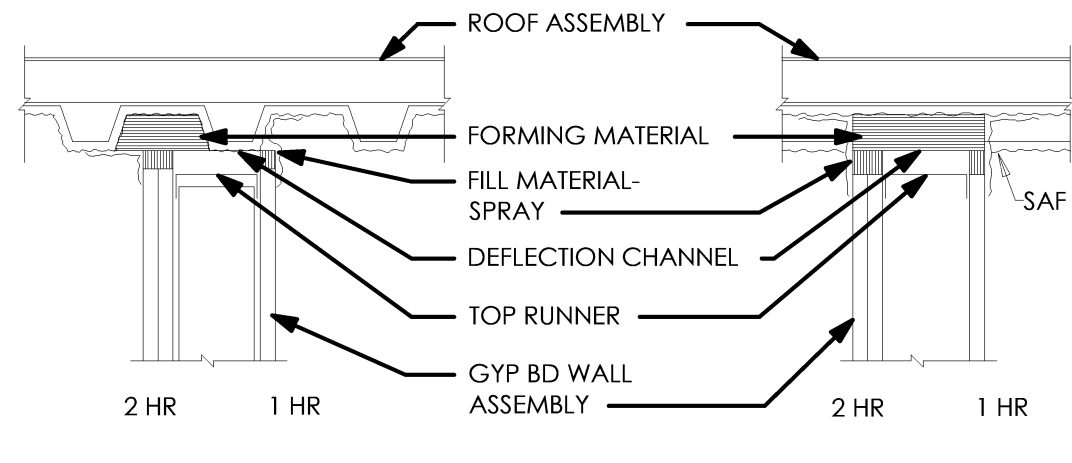
**11** CMU Wall @ Floor  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 2"

FLOOR: FORMED CONC  
PRTN: MASONRY  
FILL MATERIAL: SPRAY

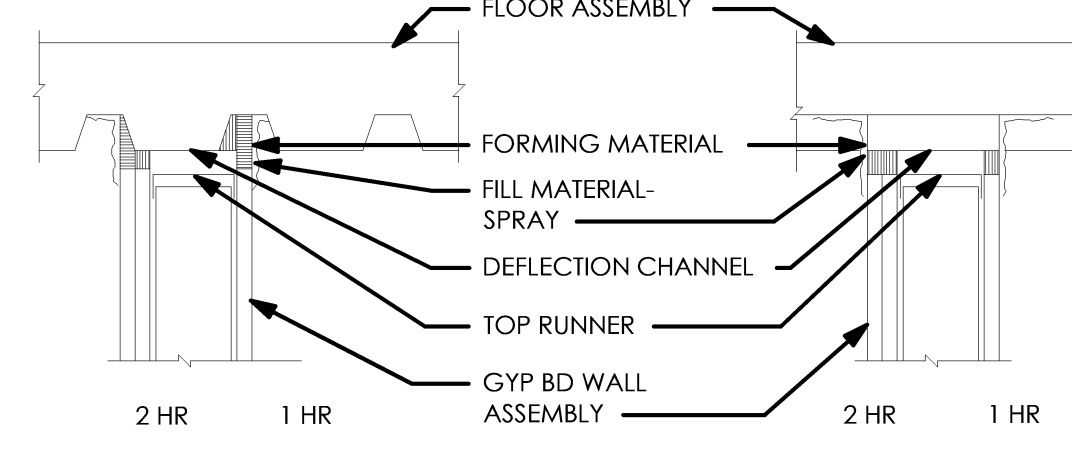
**14** CMU Wall @ Floor/Clg.  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 1"

ROOF: STL DECK W/ SAF  
PRTN: GYP BD/STRAIGHT CUT  
FILL MATERIAL: SPRAY

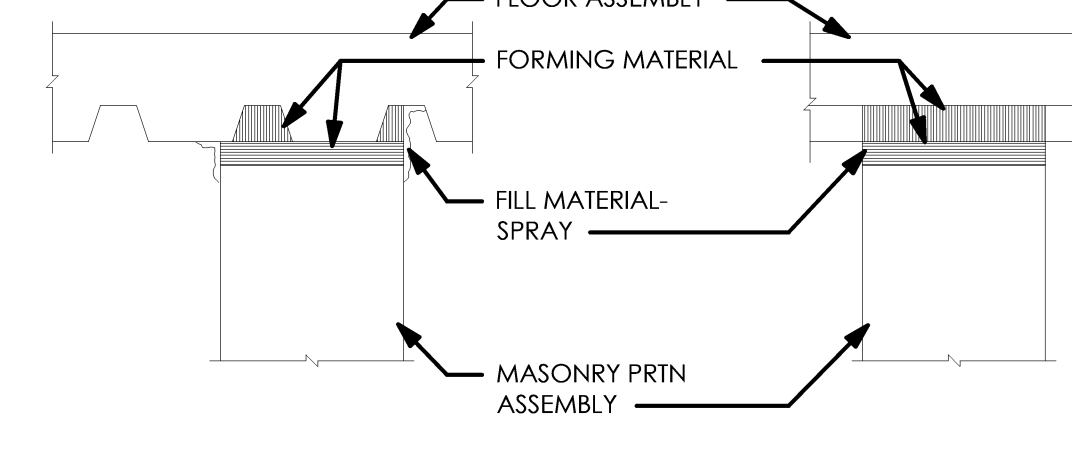
**3** Gyp. Brd. Wall @ Roof  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 1"

FLOOR: CONC & STL DECK  
PRTN: GYP BD/STRAIGHT CUT  
FILL MATERIAL: SPRAY

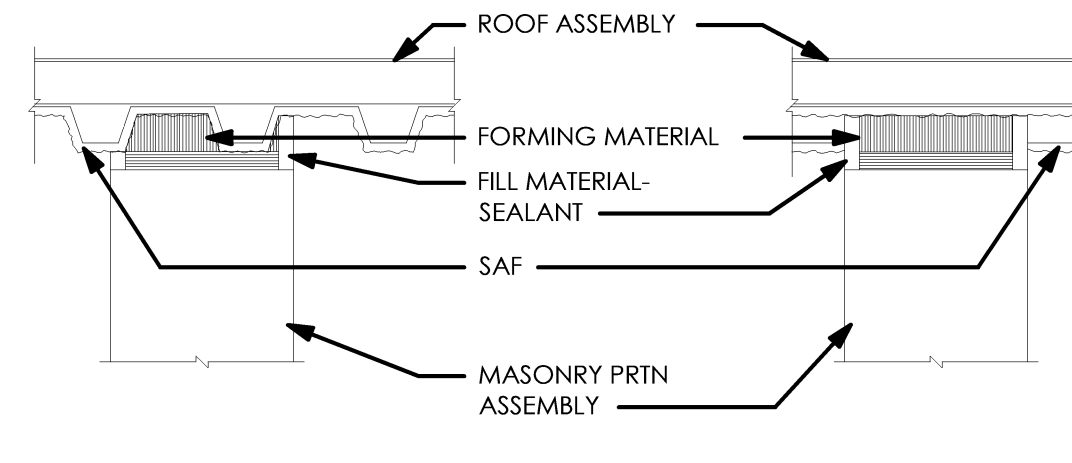
**6** Gyp. Brd. Wall @ Floor  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 1"

FLOOR: CONC & STL DECK  
PRTN: MASONRY  
FILL MATERIAL: SPRAY

**9** CMU Wall @ Roof  
1 1/2" = 1'-0"



FIRE RATING: 1 & 2 HR  
L RATED: YES  
MOVEMENT: CLASS 2  
JOINT WIDTH: 3/4"

ROOF: STL DECK W/ SAF  
PRTN: MASONRY  
FILL MATERIAL: SEALANT

**12** CMU Wall @ Floor  
1 1/2" = 1'-0"

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

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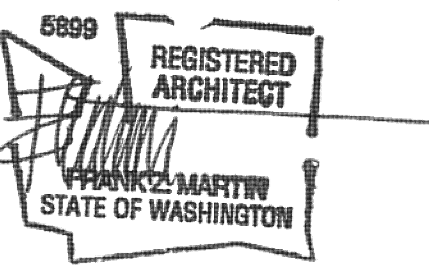
drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
project: \_\_\_\_\_ sheet title: \_\_\_\_\_

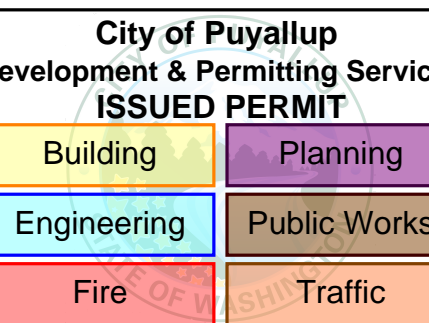
**dma**  
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Client  
Goldfish Swim School  
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F.A. #272

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drawn by checked by

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
project: sheet title:

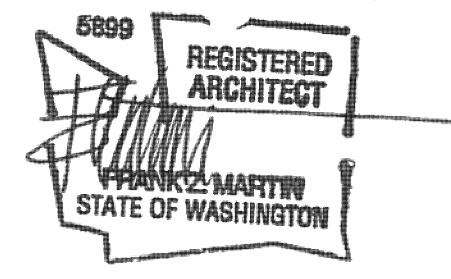
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job number sheet number  
22006 A.003

ASSEMBLY BEING PENETRATED	A- FLOOR, CONCRETE, 5 INCHES OR LESS	B- FLOOR, CONCRETE, MORE THAN 5 INCHES	J- WALL, MASONRY OR CONCRETE, 8 INCHES OR LESS	K- WALL, MASONRY OR CONCRETE, MORE THAN 8 INCHES	L- WALL, GYPSUM BOARD ON METAL STUDS
<b>L RATING</b>	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
<b>T RATING</b>	NOT LESS THAN 1-HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED	NOT LESS THAN 1-HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED	NOT LESS THAN 1-HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE WALL PENETRATED	NOT LESS THAN 1-HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE WALL PENETRATED	NOT LESS THAN 1-HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE WALL PENETRATED
<b>F RATING</b>	NOT LESS THAN 1-HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED	NOT LESS THAN 1-HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED	NOT LESS THAN 1-HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE WALL PENETRATED	NOT LESS THAN 1-HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE WALL PENETRATED	NOT LESS THAN 1-HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE WALL PENETRATED
<b>MOVEMENT</b>	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
<b>PENETRANTS</b>	<b>UL DESIGN</b>	<b>UL DESIGN</b>	<b>UL DESIGN</b>	<b>UL DESIGN</b>	<b>UL DESIGN</b>
<b>NO PENETRANTS</b>			C-J-0000 SERIES	C-K-0000 SERIES	W-L-0000 SERIES
<b>METAL PIPE, CONDUIT AND TUBING</b>	F-A-1000 SERIES, OR OPTION 2	F-B-1000 SERIES, OR OPTION 2	W-J-1000 SERIES, OR OPTION 1	C-K-1000 SERIES, W-K-1000 SERIES, OR OPTION 1	W-L-1000 SERIES
<b>NON-METALLIC PIPE, CONDUIT AND TUBING</b>	F-A-2000 SERIES	F-B-2000 SERIES	W-J-2000 SERIES	C-K-2000 SERIES OR W-K-2000 SERIES	W-L-2000 SERIES
<b>ELECTRICAL CABLES</b>	F-A-3000 SERIES	F-B-3000 SERIES	W-J-3000 SERIES	C-K-3000 SERIES OR W-K-3000 SERIES	W-L-3000 SERIES
<b>ELECTRICAL CABLES IN CABLE TRAYS</b>	F-A-4000 SERIES	F-B-4000 SERIES	W-J-4000 SERIES	C-K-4000 SERIES OR W-K-4000 SERIES	W-L-4000 SERIES
<b>INSULATED PIPES</b>	F-A-5000 SERIES	F-B-5000 SERIES	W-J-5000 SERIES	C-K-5000 SERIES	W-L-5000 SERIES
<b>MISCELLANEOUS ELECTRICAL PENETRANTS</b>	F-A-6000 SERIES	F-B-6000 SERIES	W-J-6000 SERIES	C-K-6000 SERIES	W-L-6000 SERIES
<b>MISCELLANEOUS MECHANICAL PENETRANTS</b>	F-A-7000 SERIES	F-B-7000 SERIES	W-J-7000 SERIES	C-K-7000 SERIES	W-L-7000 SERIES
<b>MIXED PENETRANTS CONTAINING ANY OF THE ABOVE</b>	F-A-8000 SERIES	F-B-8000 SERIES	W-J-8000 SERIES	C-K-8000 SERIES	W-L-8000 SERIES

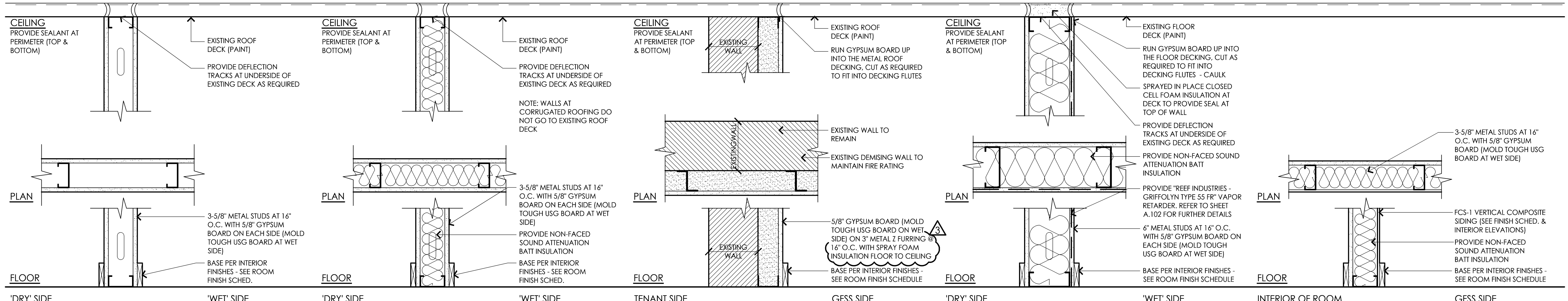
- NOTES:**
- FIRESTOP SYSTEMS SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E814 WITH MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER.
  - MAINTAIN INTEGRITY OF FIRE-RESISTANT-RATED ASSEMBLIES AT PENETRATIONS.
  - APPLIES TO FIRE-RESISTANT-RATED-
    - A. WALLS
    - B. HORIZONTAL ASSEMBLIES
  - SLEEVES
    - A. WHERE INSTALLED, SECURELY FASTEN TO ASSEMBLY
    - B. PROTECT BETWEEN PENETRANT AND SLEEVE AND BETWEEN SLEEVE AND ASSEMBLY BEING PENETRATED.
  - FIRE-RESISTANCE-RATED WALLS
    - A. PROTECT THROUGH PENETRATIONS INTO OR THROUGH FIRE WALLS, FIRE BARRIERS, SMOKE BARRIERS AND FIRE PARTITIONS.
    - B. OPTIONS 1-
      - a. PENETRANT: METALLIC AND NOT MORE THAN 6 INCH NOMINAL DIAMETER. OPENING: NOT MORE THAN 144 SQUARE INCHES
      - b. FILL MATERIAL: CONCRETE, GROUT, OR MORTAR INSTALLED FULL THICKNESS OF WALL OR THICKNESS TO MAINTAIN FIRE RESISTANCE RATING.
  - FIRE-RESISTANCE-RATED HORIZONTAL ASSEMBLIES:
    - A. PROTECT THROUGH PENETRATIONS OF FLOORS, FLOOR/CEILING ASSEMBLIES, AND CEILING MEMBRANE OF ROOF/CEILING ASSEMBLIES
    - B. OPTION 2-
      - a. PENETRANT: METALLIC AND NOT MORE THAN 6 INCH NOMINAL DIAMETER. OPENING: NOT MORE THAN 144 SQUARE INCHES
      - b. FILL MATERIAL: CONCRETE, GROUT, OR MORTAR INSTALLED FULL THICKNESS OF FLOOR OR THICKNESS TO MAINTAIN FIRE RESISTANCE RATING.

**PRCTI20221793**



architect seal

City of Puyallup Development & Permitting Services <b>ISSUED PERMIT</b>	
Building	Planning
Engineering	Public Works
Fire	Traffic



**A Wall Type** Scale: 1-1/2" = 1'-0"  
**B Wall Type** Scale: 1-1/2" = 1'-0"  
**C Wall Type** Scale: 1-1/2" = 1'-0"  
**D Wall Type** Scale: 1-1/2" = 1'-0"  
**E Wall Type** Scale: 1-1/2" = 1'-0"

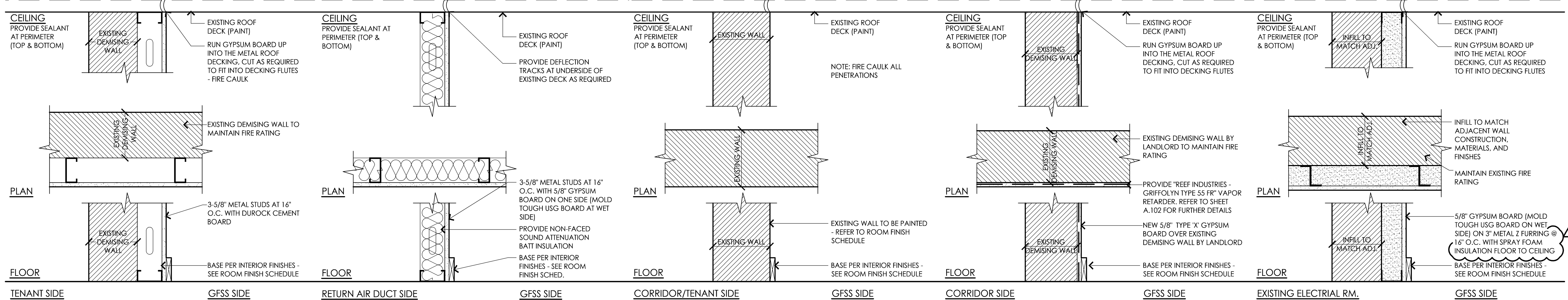
**B.1** NOTE: WALL IS THE SAME WITH DUROCK CEMENT BOARD IN LIEU OF GYPSUM BOARD  
**B.2** NOTE: WALL IS THE SAME WITH GRIFFOYLN TYPE 55 FR" VAPOR BARRIER  
**B.3** NOTE: WALL IS THE SAME WITH DUROCK CEMENT BOARD IN LIEU OF GYP. BD. AND WITHOUT SOUND ATTENUATION BATT INSULATION

**C.1** NOTE: WALL IS THE SAME WITH GRIFFOYLN TYPE 55 FR" VAPOR BARRIER

**D.1** NOTE: WALL IS THE SAME WITH DUROCK CEMENT BOARD IN LIEU OF GYPSUM BOARD  
**D.2** NOTE: WALL IS THE SAME WITHOUT GRIFFOYLN TYPE 55 FR" VAPOR BARRIER AND SOUND ATTENUATION BATT INSULATION  
**D.3** NOTE: WALL IS THE SAME WITHOUT GRIFFOYLN TYPE 55 FR" VAPOR BARRIER  
**D.4** NOTE: WALL IS THE SAME WITH DUROCK CEMENT BOARD IN LIEU OF GYPSUM BOARD, AND WITHOUT GRIFFOYLN TYPE 55 FR" VAPOR BARRIER

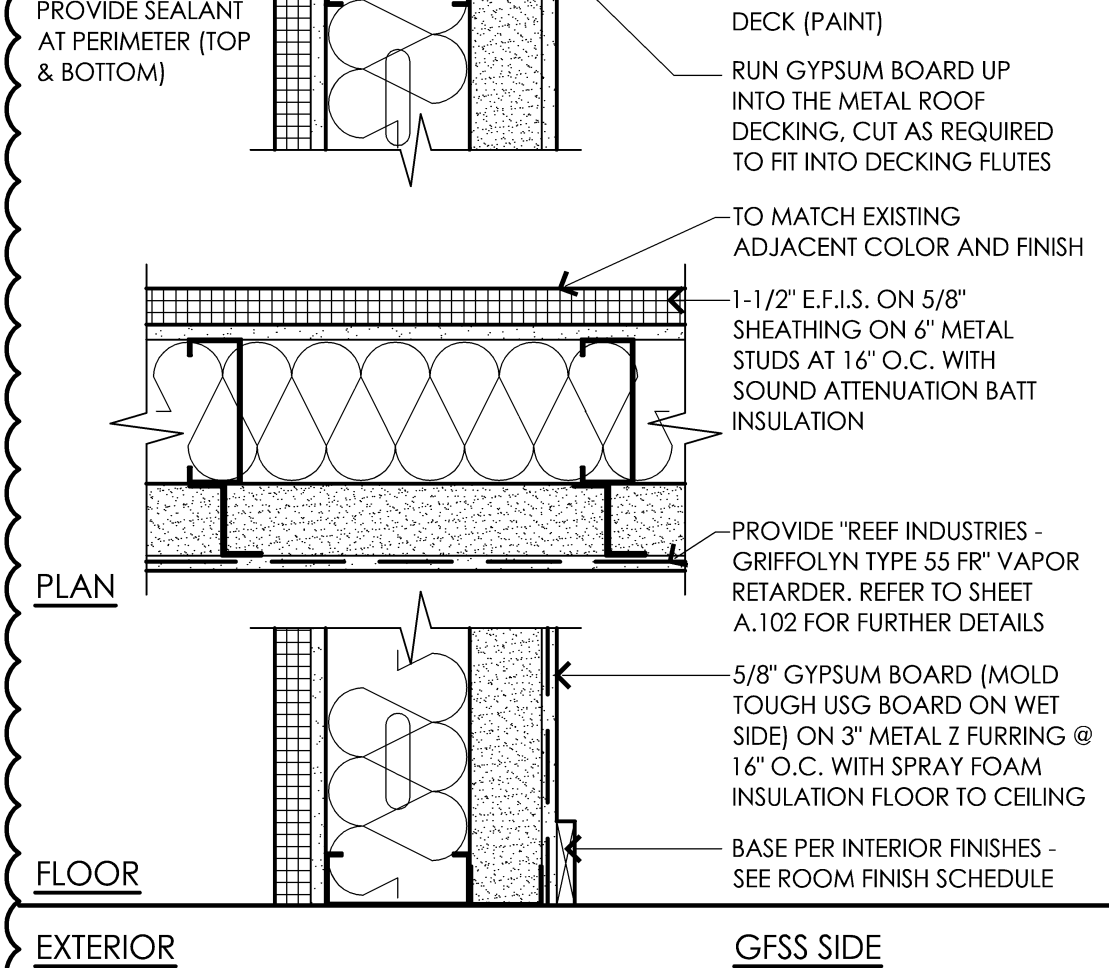
**E.1** NOTE: WALL IS THE SAME WITHOUT SOUND ATTENUATION BATT INSULATION  
**E.2** NOTE: WALL IS THE SAME WITH DUROCK CEMENT BOARD IN LIEU OF GYPSUM BOARD, AND WITHOUT SOUND ATTENUATION BATT INSULATION  
**E.3** NOTE: WALL IS THE SAME WITH DUROCK CEMENT BOARD IN LIEU OF GYPSUM BOARD

**R-19 MIN. INSULATION ON THESE WALL FOR ENERGY CODE REQUIREMENTS. MUST HAVE ALL SPECS FOR PRODUCT BEING INSTALLED TO SHOW INSPECTOR PRIOR TO INSTALLING ON WALLS.**



**F Wall Type** Scale: 1-1/2" = 1'-0"  
**G Wall Type** Scale: 1-1/2" = 1'-0"  
**H Wall Type** Scale: 1-1/2" = 1'-0"  
**J Wall Type** Scale: 1-1/2" = 1'-0"  
**K Wall Type** Scale: 1-1/2" = 1'-0"

**G.1** NOTE: WALL IS THE SAME WITH GRIFFOYLN TYPE 55 FR" VAPOR BARRIER  
**G.2** NOTE: WALL IS THE SAME WITH DUROCK CEMENT BOARD IN LIEU OF GYPSUM BOARD



**L Wall Type** Scale: 1-1/2" = 1'-0"

- Wall Construction / Finish Notes:**
- ALL METAL STUD FRAMING SHALL BE 20 GAUGE FOR WALLS THAT ARE 18' OR LESS IN HEIGHT. FOR WALLS THAT EXCEED 18' IN HEIGHT USE 18 GAUGE FRAMING.
  - ALL GYPSUM BOARD THAT IS IN THE "WETSIDE" AREAS SHALL BE MOLD TOUGH TYPE "X" GYPSUM BOARD. ALL GYPSUM BOARD IN THE "DRYSIDE" SHALL BE TYPE "X" GYPSUM BOARD.
  - PROVIDE A "LEVEL IV" FINISH AT ALL GYPSUM BOARD SURFACES. REFER TO CHAPTER 5 OF "USG GYPSUM CONSTRUCTION HANDBOOK" FOR FINISH DEFINITIONS.
  - PROVIDE CONTROL JOINTS / EXPANSION JOINTS IN GYPSUM CEILINGS AND WALLS AT 30' O.C. USE USG 093 CONTROL JOINT. INSTALL PER MANUFACTURERS SPECIFICATIONS.
  - COLD FORMED METAL FRAMING CONTRACTOR IS TO VERIFY ALL STUD GAUGE BEFORE ORDERING STUDS.
  - VAPOR RETARDER TO BE "REEF INDUSTRIES - GRIFFOYLN" TYPE 55 FR. INSTALLED BEHIND NEW GYPSUM BOARD, INDICATED BY DASHED LINE.
  - FOR LOCATIONS OF FIREWALL VAPOR RETARDER, AND INSULATION, REFER TO SHEET A.102.
  - FOR LOCATIONS AND DETAILS ON BASEBOARD TRIM, REFER TO THE PLAN ON SHEET A.103 AND ROOM FINISH SCHEDULE ON SHEET A.800.
  - REPLACE DAMAGED STUDS AS REQUIRED TO ANY AND ALL EXISTING FRAMING TO REMAIN.
  - ALL DEMISING WALLS ARE EXISTING BY LANDLORD.

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.

issue / revision date  
10-07-22 Staggered Review  
11-07-22 Preliminary Budget Review  
11-18-22 DOH Review  
11-21-22 Building Permit Review  
12-01-22 Revised Permit  
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02-09-23 Elect. Review Comments

drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

Partition Wall Types  
project: \_\_\_\_\_ sheet title: \_\_\_\_\_

**dma**  
DORCHEN / MARTIN  
Dorchen/Martin Associates, Inc.  
Architects/Planners  
29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
www.dorchenmartin.com

job number 22006 sheet number A.004

**PRCTI20221793**

DIVISION 2: Site Work / Demolition

- 1. Demolition:
A. The methods used for demolishing and removing various portions of the existing asphalt paving shall be the responsibility of the contractor...
B. All demolished material and debris, except gravel base, shall be removed from site as soon as possible...
C. Demolition - as required to complete the project in a thorough and proper manner...
D. Temporary construction shoring - shore and/or brace existing structure as required prior to and during construction...
E. Temporary construction shoring - shore and/or brace existing structure as required prior to and during construction...
F. The general contractor is to perform an on-site walk-through with the appropriate sub-contractors prior to submitting a bid...
G. The general contractor or its sub-contractors shall be responsible to repair or replace any walls or drives damaged during construction...
2. GENERAL SITE INFORMATION:
A. The drawings indicate the physical dimensions and general topography of the site...
B. The contractor shall assume full responsibility for deductions he makes or conclusions he draws...
C. Call Local excavation authority for notification of underground facilities, utilities, etc...
D. The allowable soil bearing capacity shall be assumed to be 2,500 psf...
E. The general contractor is to perform an on-site walk-through with the appropriate sub-contractors prior to submitting a bid...
G. General contractor shall repair/install lawn irrigation system...
3. PROTECTION:
A. The contractor shall consider all existing utilities and services in connection with this work and provide all required work and services to protect and maintain all such utilities and services...
4. MEASUREMENTS AND LEVELS:
A. The contractor shall check and verify all drawings measurements and levels in relation to existing elevations...
5. SITE CLEARING:
A. The extent of site clearing operations is as required for the proper execution of all new work and/or as shown on drawings...
B. Removal of surface debris...
C. Removal of asphalt paving and base shall be saw cut...
D. Excavation shall consist of removing and disposing of all material...
6. EXCAVATION:
A. Excavation shall consist of removing and disposing of all material...
B. Excavate for footings, foundations, walls, piers and similar below ground work...
C. Footings and foundations are of soil bearing design...
D. Filling or backfilling with earth under foundations will not be permitted...
E. Excavated material that cannot be used for fill or backfill work...
7. FILL, BACKFILLING AND COMPACTION:
A. Material for granular fill under floor slabs on ground shall be clean, washed, coarse concrete sand...
8. ROUGH GRADING:
A. The drawings indicate the grades, lines and elevations of the finish work...
B. Accurately record location of utilities remaining, rerouted utilities...
C. Protect bench marks, property markers and all items of existing construction and site appurtenances...
9. LANDSCAPING GRADING:
A. Topsoil: imported, friable loam, free of subsoil, roots, grass, excessive mount of weeds...
H. Eliminate uneven areas and low spots...
J. Limited subsoil preparation to areas which will be planted in the near future.
10. ASPHALTIC CONCRETE PAVING:
A. Provide and install asphaltic concrete paving, crushed concrete base course, compacted and pavement markings.
11. REFERENCES:
All materials and construction shall conform to the current standards and specifications of the Department of Transportation...
B. Standards of the City / Local Ordinance that may supersede the current State Building Code...
12. QUALITY ASSURANCE:
A. Perform work in accordance with Department of Transportation standards and specifications...
13. GRADE CONTROLS:
A. Establish and maintain the required lines and grades as directed on the civil engineering documents.
14. MARKING FOR PAVEMENT SURFACES:
A. Clearing: sweep surface with power broom supplemented by hand brooms...
B. Stripping: use traffic lane marking paint with chlorinated rubber base...
C. Color: White for standard striping and blue for handicap striping...
D. Lines for area striping shall be parallel and 18 inches on center.
E. Handicap symbols: provide standard international handicap symbols...
END OF SECTION

DIVISION 3: Concrete (Refer to Structural Specification)

- 1. REINFORCING STEEL:
A. Sew structural sheets for further info.
B. Contractor shall provide and install all reinforcing steel and welded wire fabric...
C. All reinforcing bars, dowels and ties shall conform to A.S.T.M. A615 Grade 60...
END OF SECTION
CONCRETE FLOORS 03 30 00
WET SIDE
1. Color / Finish: Natural Concrete with clear Ameripolish sealer...
2. Installation Guidelines:
a. Concrete shall be placed per plans, specs and industry standards...
b. Floors shall be protected from damage or staining during the course of construction...
3. Cleaning / Maintenance:
a. Concrete should be steam cleaned or scrubbed with floor cleaner weekly...
b. It is recommended that the area be thoroughly cleaned and resealed using CSS EMULSION every 2 years...
DRY SIDE
If you have a new concrete floor:
Option A - per specifications above
If the existing floor to remain, with new cutouts, patches etc - use overlay system for a uniform durable finish:
Option B - Elite Crete / Hermitic Quartz Epoxy overlay
1. Color: Bisquit 25-Seve Quartz Aggregate, Double broadcast
2. Installation Guidelines:
a. Moisture Mitigation
b. Lower room humidity to 80% or less
c. Allow minimum 72 hours before placing floor finish
d. Seal/5 day system - coat by coat layout and thickness per coat - 200 mil total system thickness...
3. Cleaning / Maintenance:
a. Cleaning as needed
b. Can be a power washed (1000lbs or less PSI)
c. For have dirt or evaporate scale, use dilutions of clean rinsing hard floor cleaner...
c. For concrete areas with floor tile or floor tile in:
a. Example Green or similar non-toxic solutions at higher dilutions...
1.2 SUBMITTALS
A. Section 01330 - Submittal Procedures; Procedures for Submittals.
B. Joint Filler Installer Qualification Certification:
1. Submit letter of certification...
C. Product data for:
1. All products used for repair of existing concrete slab defects.
1.3 QUALITY ASSURANCE
GOLDFISH SWIM SCHOOLS reserves the right to engage the services of a Concrete Consultant to review, observe and inspect the work in progress.
1.4 ENVIRONMENTAL REQUIREMENTS
A. Limit and control damage from excessive dust caused by demolition, preparation, and installation of all Work.
B. Limit and control damage from moisture.
C. All replaced concrete shall be cured a minimum of 21 calendar days prior to joint filler installation.
D. Concrete repair area shall be closed to traffic during preparation and repair for a time as recommended by manufacturer.
PART 2 - PRODUCTS AND EQUIPMENT
2.1 MATERIALS
A. Polyurea Joint Filler: Rapid setting, two-component polyurea polymer liquid of 100% solids content...
2.2 EQUIPMENT
A. Dust extraction system for grinding/sawing...
B. HEPA filtration vacuum, designed for use with all hand tools when grinding or sawing concrete...
C. Protect surfaces of finished floor.
D. Diaper all lifts to prohibit oil or hydraulic fluid from spilling.
E. Insure that lifts do not retain screws in the fires in order to limit chips...
END OF SECTION

- 42. Prior to placing concrete adjacent to existing concrete, thoroughly clean, de-grease and mechanically roughen existing concrete surfaces...
43. Prior to placing concrete topping, thoroughly clean, de-grease and mechanically roughen existing concrete surfaces...
44. Concrete toppings shall be reinforced with collared, fibrillated, polyamylidene fibrous reinforcement...
45. Non-shrink grout shall conform to ASTM C1107. Grout shall be premixed, polyamylidene, non-shrink, noncalceyated natural aggregate grout...
46. Reinforcing steel, anchor rods and embedment plastic shall be inspected, prior to placement of concrete...
47. Contractor shall follow ACI 308.1 for cold weather concreting...
END OF SECTION
CONCRETE FOOTINGS:
A. Contractor shall maintain accurate and correct configurations, dimensions and elevations of the foundation work...
B. Contractor shall coordinate utility sleeves, chases, openings, etc. With those individual trades concerned.
C. Concrete strength shall be 3000 psi compressive strength at 28 days for all footings...
D. Interior footings - all interior column and exterior footing depth to be as specified on the foundation plan...
E. Brick and slab ledges - all masonry facade is to sit on min. 4" brick ledge. Brick ledge is to be stepped as required per grading plan...
4. JOINT MATERIALS:
A. Asphalt expansion joint filler: preformed bituminous type conforming to ASTM d994-71...
END OF SECTION
SECTION 03 35 40
INTERIOR CONCRETE SLAB REPAIRS AND JOINT FILLER REPLACEMENT
PART 1 - GENERAL
1.1 SUMMARY
A. Section includes:
1. Joint filler removal and replacement
2. Spalled joint repair (less than 3/4")
3. Spalled joint repair or self-leveling compound removal (greater than 3/4")
4. Crack repair
5. Surface defect repair, including pop-outs, spalls, and gouges.
6. Surface embed repair, including cleanouts, in-floor electrical outlets.
7. Large area surface repair, existing underlayment removal/replacement and delamination repair.
8. Grout coat surface enhancement, including air voids, micro-pin holes, pitting and other shallow surface deficiencies.
1.2 SUBMITTALS
A. Section 01330 - Submittal Procedures; Procedures for Submittals.
B. Joint Filler Installer Qualification Certification:
1. Submit letter of certification...
C. Product data for:
1. All products used for repair of existing concrete slab defects.
1.3 QUALITY ASSURANCE
GOLDFISH SWIM SCHOOLS reserves the right to engage the services of a Concrete Consultant to review, observe and inspect the work in progress.
1.4 ENVIRONMENTAL REQUIREMENTS
A. Limit and control damage from excessive dust caused by demolition, preparation, and installation of all Work.
B. Limit and control damage from moisture.
C. All replaced concrete shall be cured a minimum of 21 calendar days prior to joint filler installation.
D. Concrete repair area shall be closed to traffic during preparation and repair for a time as recommended by manufacturer.
PART 2 - PRODUCTS AND EQUIPMENT
2.1 MATERIALS
A. Polyurea Joint Filler: Rapid setting, two-component polyurea polymer liquid of 100% solids content...
2.2 EQUIPMENT
A. Dust extraction system for grinding/sawing...
B. HEPA filtration vacuum, designed for use with all hand tools when grinding or sawing concrete...
C. Protect surfaces of finished floor.
D. Diaper all lifts to prohibit oil or hydraulic fluid from spilling.
E. Insure that lifts do not retain screws in the fires in order to limit chips...
END OF SECTION

- FULL DEPTH JOINT FILLER REPLACEMENT
A. If existing joint filler is loose, easily removed, or able to be forced downward with a hand tool, remove all filler material from joint and refill.
1. Re-saw joint full depth with a dry-cut, vacuum-equipped saw using a slightly oversized blade. The blade width should be sufficient to encapsulate the widest spall along a given contraction joint segment to produce a sharp corner on each side of the joint...
2. Refill with polyurea joint filler material from the bottom up, taking care not to entrap large air bubbles...
3. Ensure that after grinding, the joint is cut smooth and flush with the finish floor surface...
3.5 NARROW SPALLED JOINT REPAIR (LESS THAN 3/4")
A. For joints that are spalled or have radius choked edges not exceeding 3/4" in width at slab surface...
1. Re-saw the joint edge to a minimum depth of 3/4" with a dry-cut, vacuum-equipped saw...
2. Refill with polyurea joint filler material from the bottom up...
3.6 WIDE SPALLED JOINT REPAIR (GREATER THAN 3/4")
A. For joints that are spalled, contain metal key or self-leveling floor material that exceeds 3/4" in width at slab surface...
1. Re-saw the joint edge to a minimum depth of 1/4" with a dry-cut, vacuum-equipped shovel/wheeler...
2. Re-saw the joint edge to a minimum depth of 1/4" with a dry-cut, vacuum-equipped saw...
3.6 CRACK REPAIR
A. Crack width less than 1/32" without surface spalling.
1. Do not repair.
2. Grout coat may be used to fill thin hairline deficiencies.
3. Cracks from 1/32" to 1/4" in width.
1. Clean crack cavity...
2. Remove loose concrete, dirt and debris from crack with a wire brush or hand grinder...
3. minimum depth, insuring crack sidewall is clean.
4. Remove any loose segments, including old material formed by crack, with sharp tool.
5. Use methods that will not widen existing crack.
6. Vacuum crack to remove all dirt, debris and other laitance.
7. Mask slab surface along crack as necessary to minimize dust.
8. Choose material color that closely matches the adjacent floor.
9. Install low viscosity crack and spall repair material in accordance with manufacturer's instructions.
10. Repeat until all voids are filled and material crows slab surface.
11. Do not flood area around crack.
12. Watch for bubble formation and out gassing.
13. Do not allow material to gel before adding additional material.
14. Shake or grind material flush to surface as stipulated by manufacturer.
3.8 SURFACE SPALLING REPAIR
A. For slab surface that is chipped and spalled, where the deficiency is 1/2" in length or width up to 3" in length or width, by 1/2" in depth.
1. Route edge of spall to provide 1/8" deep square edge or 30° edge...
2. Prepare and install repair material.
3. Do not overcut slots into existing slab surface.
4. Clean and prep spalled cavity.
5. Wire brush spalled surface to remove all dirt and laitance.
6. Mask slab at perimeter of spall with tape.
7. Install Low Viscosity Crack and Spall Repair material.
8. Clean over repair area with diamond mesh and diamond disk to blend surface.
9. Feather filler material into the adjacent concrete floor surface.
10. With 2000 grit disk and firm pressure, add a few bum marks to mottle surface to blend with adjacent floor surface.
NOTE: For inconsistent, varying spalled joints that comply with the measurements in this section, a form material may be needed to temporarily form and support the vertical face of spalled joint edge. Ensure that the repair material will not adhere to the form and the rigid repair material does not fuse the joint together.
11. For cleanouts, varying spalled joints that comply with the measurements in this section, a form material may be needed to temporarily form and support the vertical face of spalled joint edge. Ensure that the repair material will not adhere to the form and the rigid repair material does not fuse the joint together.
3.9 BOLT HOLE, CONDUIT REPAIR
A. For slab surfaces containing surface or sub-surface bolts, bolt-hole voids, conduit or subsurface conduit.
1. Recess steel bolt or conduit a minimum of 1/2" below finish floor by either punching or cutting.
2. Check with General Contractor prior to cutting into active electrical or communication conduit.
3. For floor fractured edges less than 30 degrees, square edge to a minimum 1/8" depth with either a drill bit, chisel or edge grinder.
4. Clean cavity of all debris and laitance with drill activated, brass wire wheel. Vacuum hole to remove all dirt, debris and other laitance.
5. Disperse Low Viscosity Crack and Spall Repair at moderate pace using steady pressure. Disperse material into void, refilling as necessary to produce slight crown.
6. Grind material flush to slab surface per manufacturer's instructions.
3.10 LARGE SURFACE REPAIR, UNDERLAYMENT REMOVAL AND REPLACEMENT
A. For slab surfaces containing wide-area irregular rough surfaces greater than 3" in width and length such as irregular coarse aggregate surfaces or surfaces with existing fire or carpet underlayment's > 1/4" in thickness or surface paste delaminations.
1. Define edge perimeter with diamond masonry wheel or shovel/wheeler to produce sharp edges, at least 3/8" deep.
2. For delaminations test to determine the extent of the delaminated area. From the current edge extend repair 6" in all directions. Define a square or rectangular repair area and create an edge perimeter. Do not overcut into surrounding surface.
3. Roughen base surface using shovel/wheeler to 100' CSP 3- 5 and vacuum clean.
4. Wire brush to remove any small loose material and vacuum again.
5. Mix and install overlay material in accordance with manufacturer's instructions.
6. Place repair material in floor surface defect. Rod level or leave slightly proud of existing floor.
7. Grind, densify and polish to match adjacent concrete.
8. Re-establish original concrete slab joints by sawing completely through patch and re-filling with Polyurea joint filler prior to exposure to traffic.
3.11 SMALL SURFACE FITTING, PINHOLE REPAIR, GROUT COAT
A. For surfaces consisting of micro-deficiencies, pin holes, hairline cracks and other surface clutter that impedes the achievement of the specified overall gloss values.
1. Clean pitted surfaces with 90-degree angle grinder equipped with wire wheel to remove all dirt/laitance. Wheel should be run over defect in multiple directions to ensure proper cleaning.
2. Vacuum prepared pitted surface.
3. Install and disperse grout coat using approved product in accordance with manufacturer's directions.
4. Ensure a thin, uniform layer of repair material covers the pitted areas. Refill any low spots as needed.
5. Grind or polish flush with metal or resin-bond diamonds, ensuring repair material is flush with slab surface.
6. Repeat repairs in areas as required if repair material pulls out of defects.
7. Apply required applications and polish smooth to meet specified overall gloss values.
3.12 PROTECTION
A. Protect surfaces of finished floor.
B. Diaper all lifts to prohibit oil or hydraulic fluid from spilling.
C. Insure that lifts do not retain screws in the fires in order to limit chips. Use canvas bags on the tires of all lifts on site.
D. Protect traffic until floor repairs have received final approval by Owner.

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REGISTERED ARCHITECT
FRANCIS MARTIN STATE OF WASHINGTON

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building Planning
Engineering Public Works
Fire Traffic

Client
Goldfish Swim School
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Table with columns: drawn by, checked by

Goldfish Swim School
South Hill Mail - Unit 900-30
3500 South Meridian
Puyallup, WA 98373
Architectural Specifications
project: sheet title:

dma
DORCHEN / MARTIN
Dorchen/Martin Associates, Inc.
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2999S Greenfield Rd., Suite 107
Southfield, Michigan 48076
(248) 557-1062
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job number sheet number
22006 A.005

PRCT20221793

**Division 4: Masonry** (Refer to Structural Specification)

1. MORTAR:
  - A. Mortar used in the work shall be in accordance with the following requirements, all measurements by volume.
    - B. Mortar for below grade construction must be type m and conform to ASTM C-476.
    - C. Mortar and grout for noncasted masonry construction shall be type S or N and shall conform to ASTM C-476.
    - D. Mortar shall be type N above grade and type M below grade.
2. BLOCK:
  - A. All concrete block used in the project shall be of one type aggregate conforming to ASTM specification C90 or C145 grade "N". Units shall be load bearing type, hollow 2 core and solid units as required, uniform texture. Unit size shall be as specified on the drawings.
    - B. All masonry units furnished must be structurally sound block, free from defects that interfere with setting or that impair the strength or performance of the construction.
    - C. Joint laddar or truss reinforcement wires shall be formed of 9 ga. Or larger wire and conform to ASTM A-116 and placed 16" o.c. vertically or as shown on the architectural drawings.
    - D. All masonry should be placed plumb and true with level courses accurately spaced in running bond.
    - E. Anchors, wall plugs, flashings and other items to be built-in shall be installed as work progresses.
    - F. All concrete masonry units shall conform to ASTM C-90 and shall have a minimum strength of 2000 psi.
    - G. Install vertical reinforcing bars as specified on the drawings of structural steel.
3. BRICK AND STONE FACADES:
  - A. Face brick shall be as specified on the drawings.
  - B. Broken or chipped brick units shall not be accepted.
  - C. Lay all brick units straight, true, plumb and level in bond.
  - D. Anchorage of brick units to framing system shall be with heckmann #187 corrugated brick veneer anchors with hole 1 1/2" o.c. horizontally and vertically. Standard size, 3/16" long x 1/2" wide x 1 1/2" gage with 1/16" bend. And 5/16" dia. Hole. For #12 dia screw, hot dip galvanized after fabrication.
  - E. Wall shall be vented with heckmann #85 cell vent at 24" o.c. In the bottom vertical mortar joint of the brick wall.
  - F. All accessories shall be installed in accordance with the manufacturer's specifications.
  - G. All brick work shall proper lies to the structure in accordance with the most recent specifications of the Brick Institute of America.
  - H. Provide 22 ga. Galv. Metal brick ties at 24" o.c. Horiz and 16" o.c. Vert. Nail only into studs or solid blocking secure with galv. 8 d nails.
  - I. The masonry contractor is solely responsible for the design and installation of all temporary shoring and false-work required to withstand wind loads and temporary construction loads. All work performed shall be in accordance with all OSHA requirements.
  - J. All masonry below grade is to be grouted solid.
  - K. At base of all masonry and as direction on plans provide Grace Perm-A-Barrier thru-wall flashing with weeps at 32" o.c. Grout solid below. Provide pea stone drainage in airspace behind weep hole in order to keep weeps free from mortar droppings. Lap air infiltration barrier over thru-wall flashing in order to create shingle affect. Verify all weep holes are set above porches, slabs and grade. Min. 8" above grade.
  - L. Note: If a fully adhered product is not used, provide termination bar at top of thru-wall flashing. Install per manufacturing specs
  - M. All brick shall be as specified on the drawings.
4. EXPANSION AND CONTROL JOINTS:
  - A. Expansion joints for brick masonry shall be placed at 20' or at areas where bearing conditions change.
  - B. Control joints for concrete masonry shall be placed at 30' o.c. maximum, u.n.o.

END OF SECTION

**Division 5: Metals** (Refer to Structural Specification)

1. STRUCTURAL AND MISCELLANEOUS STEEL:
  - A. Verify sizes and location of roof openings with mechanical and architectural drawings.
  - B. Steel design, fabrication and erection to be in accordance with the latest A.I.S.C. specifications for structural steel for buildings.
  - C. All structural steel shall conform to the latest A.S.T.M. serial designation A36 or A.S.T.M. A572, GR50; Steel tubing to be A.S.T.M. A500; Steel pipe A.S.T.M. A53, Grade B
  - D. Shop connections may be bolted, welded or riveted.
  - E. All field connections shall be bolted with high strength A325 grade bolts with a 1/2" minimum diameter, unless noted.
  - F. Bracing members shall be connected with a minimum of two high strength bolts or as required to develop the indicated design load.
  - G. Bolted connections shall be bearing type with threads in the shear plane unless noted.
  - H. Welding shall be done with E70xx electrodes. All welded connections shall be in accordance with the latest A.W.S. specification, E70XX electrodes, with welding performed by certified welders.
  - I. All work is to be erected in accordance with the latest AISC manual of steel construction specification.
  - J. Structural steel design, fabrication and erection shall be in accordance with the latest AISC "specification for structural steel buildings".
  - K. Structural steel shall conform to ASTM A36 or ASTM A572, grade 50; steel tubing ASTM A500, grade B; pipe ASTM A53, grade B.
  - L. Welded connections are to be made in accordance with, and by welders qualified under, the aws code, using e70xx electrodes.
  - M. Bolted connections shall be made with ASTM A325 or A490 bolts, installed in accordance with the "specifications for structural joints using A325 or A490 bolts"; Min 3/4" dia bolts.
  - N. Fabricator is to design beam end connections for the reactions shown on the drawings or for one-half the total uniform load shown in the AISC manual beam load tables or for reactions shown in composite beam schedule.
  - O. The design, configuration and erection safety of all structural steel connections are the responsibility of the steel fabricator. Review and acceptance of the structural steel shop drawings by the engineer shall constitute approval of the detailed connections only.
  - P. Temporary erection seats shall be provided by the fabricator wherever required, and as recommended on page 3-59 of the AISC publication "engineering for steel construction".
  - Q. The steel frame is non self-supporting per the AISC code of standard practice, sections 7.9.3 and 7.9.5. Erection, bracing, shoring, etc. shall conform to section 7.9. It is solely the contractor's responsibility to determine erection procedures, materials and sequence.
  - R. Steel Deck
    - a. Deck Profile: Type "B" or as indicated on Drawings.
    - b. Profile Depth: 1-1/2 inches or as indicated on Drawings.
    - c. Design Uncoated Steel Thickness: 20 Gauge or as indicated on Drawings.
    - d. Span Design: Multiple (3 span minimum).
    - e. Accessories: Manufacturer's recommended roof deck accessory materials.
    - f. Closure strips, wet concrete stops, cant strips, cover plates, or reinforcing steel sheet: 20 gauge shop primed or galvanized to match deck type.
    - T. Rufe Closures: Closed cell foam rubber of thickness required, profiled to fit tight to decking.
    - V. Provide non-combustible and fire rated closures as/iff indicated.
    - W. Fasteners: Hardened steel, galvanized, self-tapping or weld washers, mild steel uncoated. Powder activated or pneumatically driven fasteners are also acceptable.
    - X. The steel manufacturer shall provide shop drawings to the architect and or engineer prior to fabrication.
    - Y. Provide miscellaneous 4 x 4 x 1/4 steel angles at all roof penetrations supporting rooftop equipment to span between existing steel beams, and similarly at all exhaust hood mounting locations for food service equipment suppliers to mount threaded roof supports to.
2. METAL STUD FRAMING SYSTEM:
  - A. Provide and install formed metal stud framing and accessories where indicated on drawings for a complete stable and structural system capable of supporting the loads being applied to the system.
  - B. Structural properties and design shall be in accordance with all "specifications for the design of cold-formed steel structural members", 1998, and other applicable standards or specifications.
3. MANUFACTURERS:
  - A. United states gypsum
  - B. National gypsum (gold bond)
  - C. Stud framing materials:
    - A. Non-load bearing studs: ASTM a525, galvanized to g90 coating class, cold rolled steel, channel shaped, punched for utility access, as scheduled.
    - B. Width: 3-5/8"-20ga. Prostud (max height of 16'-10"), 6'-12ga. (maximum height of 26'-0") or 6' - 16ga. (maximum height 20'-9") or as otherwise indicated.
    - D. Furring and bracing members: of same material and finish as studs, thickness to suit purpose.
    - E. Fasteners: ga 203, self-drilling, self-tapping screws.
    - F. Steel Joists: ASTM A44, Grade 33, "C" channel shape, with flange width of 2 inches, minimum uncoated steel thickness as indicated on Drawings or 18 gauge if not indicated, and of depths indicated.
    - G. Steel Roof Trusses: All component gauges, ASTM A 653, minimum yield strength of 40,000 PSI.
    - H. Bracing and Bridging: ASTM A 653, minimum yield strength of 33,000 PSI.
    - I. Metal backing of same material and finish as studs for reinforcement in areas indicated on drawings.
    - J. Install studs vertically at 16 inches or unless otherwise indicated on drawings. Place two beads of acoustic sealant between studs and adjacent vertical surfaces where acoustic separation is required.
    - K. Connect studs to tracks using clipping or fastener method.
    - L. Stud splicing not permissible.
    - M. Construct corners using minimum three studs.
    - N. Double studs at wall openings, door and window jambs, and not more than 2 inches each side of openings.
    - O. Brace stud framing system and make rigid.
    - P. Coordinate erection of studs with requirements of door and window frame supports and attachments.
    - Q. Coordinate installation of bracs, anchors, plates and blocking with electrical and mechanical work to be placed in or behind stud framing.
    - R. Blocking: secure wood blocking to studs. Install blocking for support of plumbing fixtures, toilet partitions, wall cabinets, toilet accessories, hardware, wood trim and miscellaneous items.
    - S. All interior stud partitions shall extend through ceiling to roof deck above. Maintain clearance under structural building members to avoid deflection transfer to studs. Provide extended leg ceiling runners.
    - T. Coordinate placement of insulation in multiple stud spaces made inaccessible after stud framing erection.
  4. TOLERANCES:
    - A. Maximum variation from true position: 1/8" inch.
    - B. Maximum variation of any member from plane: 1/8" inch

END OF SECTION

**Division 6: Wood and Plastics**

1. LUMBER AND ROUGH FRAMING
  - A. Lumber shall conform to the "American Lumber Standards", and shall have visible grade stamp of agency certified by national forest products association (NFA).
  - B. Furnish and install all items of rough hardware, including spikes, bolts, nails, screws, straps, slaps, also anchors and anchor bolts, as required, to fasten wood to wood, wood to metal and wood to masonry.
  - C. Nails, spikes and staples: galvanized for exterior locations, high humidity locations and treated wood; plain finish for other interior locations; size and type to suit application.
  - D. Bolts, nuts, washers, lags, pins and screws: medium carbon steel; sized to suit application galvanized for exterior location, high humidity locations and treated wood; plain finish for other interior locations.
  - E. Joist hangers: sized and profiled to suit application; galvanized finish.
  - F. Fasteners: toggle bolt type for anchorage to hollow masonry. Expansion shield and tag bolt type for anchorage to solid masonry or concrete. Bolts or power anchors to suit application.
  - G. Metals in structural steel be pre-drilled by the structural steel fabricator.
  - H. Materials for framing shall be southern pine, hem fir, douglas fir or hemlock with minimum allowable stresses of: fb=850 psi, eh=300,000 psi min dried, no. 2 or better.
  - I. Studs shall be spl/stvp (wvpa) or better grade. U.n.o., kiln dried at 9% maximum moisture content.
  - J. Laminated veneer lumber (such as micro lam) shall have the following structural properties: fb=2800 psi, fy=285- psi, E=2,000,000 psi.
  - K. Laminated wood beams (glue-lams) shall have the following structural properties: fb=2400 psi; fy=165 psi; eh=800,000 psi
  - L. Any wood plate installed on concrete or masonry block shall be pressure-treated.
  - M. Install all structural framing, bridging, fire stopping, etc. Pursuant to procedures outlined by the current IBC locally adopted code.
  - N. Install 3/4" plywood fire blocking @ all wall cabinets and all areas required by current building code.
  - O. Install blocking/backing for all door bumpers, towel bars, rods, shelves, shelf supports, shower wand, intersecting shower door, toilet paper holders, railings, fans, cabinets, partitions, grab bars, lav, sinks, etc. Coordinate location of all items with Architect before rough utilities are run.
  - P. Structural dimension lumber such as headers and joists shall be a minimum of #2 hem fir or mc 19% maximum.
  - Q. All structural lumber in contact with concrete or masonry, or less than 8" above grade or exposed to the weather shall be pressure treated.
  - R. All lumber at or below grade shall be pressure treated.
  - S. All pressure treated lumber which is cut, drilled or notched shall be field treated [brushed on exposed surfaces].
  - T. Notching and drilling of structural members is prohibited without prior written consent of the engineer or architect.
  - U. All connections not shown on the drawings shall be made with prefabricated steel hangers sized for the carried load and member size (i.e. A double 2 x 10 must have a simpson u-210-2 hanger ( ), etc.).
  - V. Care is to be taken to isolate oil galvanized hangers from pressure treated lumber. Consult architect if situation occurs.
2. WOOD CONNECTIONS:
  - A. Unless noted otherwise, all wood connections shall comply with the MBC 2009. See railing schedules as provided in building code.
3. ENGINEERED BUILDING SYSTEMS:
  - r/n/a
4. FINISH LUMBER AND ARCHITECTURAL WORKWORK:
  - A. Provide all wood species shown on the drawings and as herein specified. All wood for finish must be selected from well-seasoned stock, thoroughly kiln dried and worked to size and detail drawings. None to be brought to building until same is dried out and heated. All finish woodwork is to be best quality.
    - B. All interior trim is to be poplar ready for paint. Finger jointed material is not permitted.
    - C. Install work in accordance with awi premium quality standard.
    - D. Set and secure materials and components in place, plumb and level.
    - E. Protect finished installation to prevent damage to finished work.
    - F. The finish carpenter shall consult the specification for other trades doing work connection with this particular trade, and any carpentry work or material which is not specified under this section and which is necessary or required for the completion of the work of this section shall be furnished and installed by this contractor.
    - G. The extent of finish carpentry work is shown on the drawings and schedules.
    - H. Furnish all labor, materials, equipment and services necessary or required to fully complete all finish carpentry and related work as indicated on the drawings, or as specified herein, including, but not necessarily limited to, the following briefly described:
  5. WOOD STAIRS AND HANDRAILS:
    - n/a
  6. PLASTIC LAMINATE WORK AND CABINETS:
    - A. Plastic laminate material: As specified on the drawings
  7. COUNTERTOPS AND LOOSE SHELVES:
    - A. Plastic laminate finish shall be installed over a core of 1/2" cabinet grade high density particle board, or plywood, with backing of high pressure paper laminate without a decorative finish; minimum 1/32 inches thick, manufactured by wisonair, (post-formed countertops are not acceptable).
    - B. Those items which are identified through detail as having to be shop fabricated (i.e. Countertop, certain cabinetwork, shelving, etc.) shall be done in accordance with specifications of other trades doing work connection with this particular trade, and any carpentry work or material which is not specified under this section and which is necessary or required for the completion of the work of this section shall be furnished and installed by this contractor.
    - C. Apply plastic laminate finish in full unjointed sheets consistent with manufactured sizes. Corners and joints to be hairline. Slightly bevel angles. Locate counter butt joints at least 2 feet from sink cut-outs.
    - D. Cap exposed plastic laminate edges with material of same finish and pattern. Mechanically fasten splash backs to counter-tops with steel brackets of 16 inches on center.
    - E. Plastic laminate design, finish and color selected by owner.
  8. CABINET HARDWARE & ACCESSORIES
    - A. Hinges: Rockford Press Control, Inc., Rockford, Illinois #349-260-1 or approved equal. Heavy duty, 5 knuckle, with hospital lip. Hinges are to be attached with flat head sheet metal screws, wood screws are not acceptable.
    - B. Pulls: Amerock #24018-SN, Satin Nickel Galleria Pull or approved equal.
    - C. Catchers: Friction type, adjustable with nylon roller and strike. Amerock #CM9823-A2G for 1/4 inch thick doors. Amerock #CM745-2C for 1-1/8 inch thick doors.
    - D. Adjustable Shelf Supports: Knap & Vogt #348 (minimum four required per shelf).
    - E. Drawer Slides: As manufactured by Blum, Accuride, or approved equal. Slide-mounted, zinc-plated steel drawer slides with steel ball bearings; complying with BIMBA A156-9, Grade 1 and rated for the following loads:
      - a. Box Drawer Slides: 75 lb/ft.
      - b. File Drawer Slides: 150 lb/ft.
      - c. Pencil Drawer Slides: 45 lb/ft.
      - F. Keyboard Slide: Accuride 2009, 3, extensible.
      - G. Door Cushions: Blum door corners, opposite hinge side to receive plastic round cushion.
      - H. Locks: Chicago Lock Company, Chicago, Illinois, or Architect approve equal as follows:
        - a. 1-1/8 inch doors type #1704
        - b. 7/8 inch drawer fronts #1703
        - c. 1/2 inch doors #1702
        - L. Locks shall be of cylinder type cast with 5 disc tumbler mechanism. Each lock shall be provided with 2 milled brass keys. Locks shall be keyed differently or keyed alike as required by Architect/Owner. Provide master key(s) for each room or area. Locks shall be provided as shown on Drawings - or, if no locks are indicated on Drawings, provide locks at all Drawers, Cabinets for cable passage through countertop; high impact ABS cable hole cover, 2-1/2 inch inside diameter, with spring closure in lip. As manufactured by Hafele or approve equal, in color to be selected by Architect.
    9. ADHESIVES:
      - A. Rough finish - Construction adhesive: solvent release, cartridge type, compatible with wall substrate, capable of achieving durable bond.
    10. ACCESSORIES AND FASTENERS:
      - A. The rough and or finish contractor shall provide all nails, screws, nuts, bolts and fasteners as required to complete the project. The contractor shall follow the design intent established in the drawings.
    11. SOLID SURFACE FABRICATIONS:
      - A. Corian® surfaces from the DuPont Company, as pre-approved by Architect.
      - a. Solid polymer components:
        1. Cast, nonporous, filled polymer, not coated, laminated or of composite construction with through body colors meeting ANSI Z124.3 or ANSI Z124.6, having minimum physical and performance properties specified.
        2. Superficial damage to a depth of 0.010 inch (.25 mm) shall be repairable by sanding and/or polishing.
        - B. Thickness: 1/2" for all surfaces unless otherwise noted.
        - C. Provide 1/2" thick window sills with 1" full bulbnose edge detail at face.
        - a. 1. Finish: To be selected from standards for marble, semi-gloss, or gloss.
        - H. Color: To be selected from Price Group A through D.
        - c. Inlays: Not applicable
        - D. Seams: Fabricate window sills without seams where practical or with sealant-filled seams in locations as approved on Shop Drawings.
        - E. Fabricate components to greatest extent practical to sizes and shapes indicated, in accordance with approved shop drawings and manufacturer's printed instructions and technical bulletins.
        - F. Form joints between components of manufacturer's standard joint adhesive without conspicuous joints.
        - G. Reinforce with strip of solid polymer material, 2" wide.
        - a. Provide factory cutouts for plumbing fittings and bath accessories as indicated on the drawings.
        - H. Rout and finish component edges with clean, sharp returns.
          - a. Rout cutouts, radii and contours to template.
          - b. Smooth edges.
          - c. Repair or reject defective and inaccurate work.
      12. DELIVERY, STORAGE AND HANDLING:
        - A. Deliver, products to site and handle under provisions of owner's General conditions.
        - B. Protect units from moisture damage.
        - C. Do not deliver shop fabricated carpentry items until site conditions are adequate to receive the work. Protect items from weather while in transit.
        - D. Store indoors, in ventilated areas with a constant, minimum temperature of 60 degrees F., maximum relative humidity of 25 to 55 percent.
        - E. All customs cabinet work and counters to be tongued and grooved, glued and screwed together on the bench, put together with as few nails as possible, and brought to the building, ready to set in place.

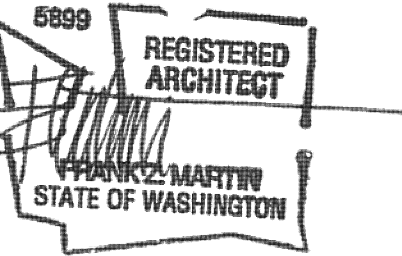
END OF SECTION

**Division 7: Thermal and Moisture Protection**

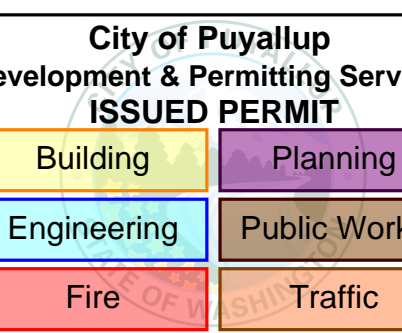
1. WATERPROOFING:
  - A. Provide polymer film thru-wall flashing at horizontal surfaces of foundation, sills, heads and elsewhere as required.
  - B. Thru-wall flashing shall be heckmann #81 epcrn, 40 mil thick.
  - C. Installation shall be in strict accordance with the manufacturer's latest written specifications.
2. VAPOR BARRIER:
  - A. Provide and install continuous vapor barrier under concrete floor and over compacted earth with joints lapped 6" minimum. The vapor barrier is to be a min. of 6 mils thick. Install beneath all floor slabs within habitable areas or as indicated on the drawings. Install sheet materials, in accordance with manufacturer's instructions.
3. AIR BARRIER:
  - A. Provide and install continuous air barrier on exterior walls.
  - B. Install with strict compliance of manufacturer's specifications.
4. WATER BARRIER:
  5. BOARD INSULATION:
    - A. Provide and install continuous polyethylene board insulation under floor slabs and at foundation perimeter as noted on the drawings. The insulation shall be 2" thick, placed at the building perimeter (or as shown) and extend 24" vertically and horizontally.
    - B. Place insulation under slabs on grade after base for slab has been compacted.
    - C. Prevent insulation from being displaced or damaged while placing vapor barrier and concrete slab.
    - D. Install board materials in accordance with manufacturer's instructions.
  6. INSULATION:
    - A. Insulation shall be as specified on the drawings. Intent is to comply with IECC 2009 model energy code. Non-combustible insulation must be used insofar as (if applicable)
    - B. Notes provide option to insulate all interior walls.
    - B. Provide sound insulation at all bathroom and laundry walls or as noted on the drawings.
  7. GUTTERS AND DOWNSPOUTS AND ROOF SUMP:
    - A. Provide gutters and downspouts as indicated on the drawings
    8. SOFFITS:
      - A. As specified on drawings
      9. SEALANTS AND CAULKING:
        - A. Provide and install sealant or caulking at all locations requiring sealant or caulking. Type shall be as recommended by the manufacturer for each location.
        - B. Installation shall comply with the manufacturer's written directions.
        10. VENTING (If applicable to Project):As specified on drawing
        11. METAL FLASHING AND TRIM (If Applicable to this Project):
          - A. All step flashing where roots meet walls shall be 24 ga. Min. clear anodized aluminum. Flash all areas as shown or as required by the highest standards of practice. Provide aluminum cap flashing with hemmed edges over all window heads/walls.
          12. ROOFING:
            - A. Whether specified in this Section or not, all roofing and related materials shall be as required and recommended by roofing system manufacturer for a complete system to achieve specified Warranty
            - B. EPDM Sheet: ASTM D 4637, Type 1, Grade 1 and Class U, unreinforced; 60 mils thick; black.
            - C. Roofing System shall be per Firestone RubberGuard EPDM Fully Adhered Roof System, Steel Deck or Architect approved equal.
            - C. Auxiliary Materials: Recommended by roofing system manufacturer for intended use to include, but not be limited, to the following:
              - a. Sheet Flashing: 60-mil thick EPDM.
              - b. Splice Materials: Synthetic-rubber-polymer primer and 3-inch- wide minimum, butyl splice tape with release film
              - c. Thermal or Air Barrier: Provide in addition to specified insulation only if required by Manufacturer.
              - d. Accessories: All additional required corner pieces, splices, and flashings as required of parapets and new roof penetrations.
              - e. Roof Walkway Pads: Type and Material as recommended by Roof Manufacturer and as indicated on Drawings.
              - D. Roofing Insulation: Polyisocyanurate Board Insulation: ASTM C 1289, Type II, in minimum thickness required to achieve R=20.
              - e. All unheated canopy portions provide minimum insulation thickness required for proper system installation and warranty.
              - F. Provide tapered insulation only as may be required for drainage at or around roof accessories, at equipment, at parapets, or as indicated on Drawings. Fabricate tapered insulation with a slope of 1/4 inch per 12 inches (1:48) or as indicated on drawings. Ensure tapered insulation provides for positive drainage and does not allow for ponding to occur. Maintain minimum R=20 in all locations except as noted above for canopy roofs.
              - f. Mechanically attach roofing insulation to metal deck per Roofing System Manufacturer's recommendations.
          13. ALUMINUM COMPOSITE MATERIAL (A.C.M.) PANEL SYSTEM (If Applicable to this Project):
            - A. Furnish and install aluminum composite panel system for walls, fascias, soffits, etc. as directed on drawings.
            - B. Furnish and install all necessary associated trim, parapet caps, sealants, and fasteners required for a weather tight enclosure system.
            - C. The composite metal panel manufacturer and fabricator shall have a minimum 10 years experience in the performance of projects with similar size and scope.
            - D. The composite metal panel installer shall have a minimum 5 years experience in the performance of projects with similar size and scope.
            - E. The composite panel system shall have been tested and certified for compliance with requirements as specified herein and designed in accordance with accepted practices of the Curtainwall Manufacturer's Association utilizing the rain screen wall design principle.
            - F. All materials shall be fabricated in the USA.
            - G. The materials, products, and systems specified in this section establish a standard of quality for required function, performance, dimension, and appearance, and must be met by any proposed substitutions.
            - H. No substitutions will be considered unless written request for approval has been submitted by the bidder and has been received by the architect or least ten (10) days prior to the date for receipt of bids.
            - I. Such request shall include the name of the composite material and system fabricator, a complete description of the proposed substitution including drawings, cuts, mock-ups, performance and test data showing all deviations to the project requirements, a list of projects of similar scope, photographs of existing installations, and any other information deemed necessary by the architect for proper evaluation.
            - J. Substitutions shall be approved by Addendum or Bulletin only.
            - K. MATERIALS
              - a. Aluminum Composite Materials - Composite material shall be 5/32" (4mm) thick with minimum .020" aluminum skins on both sides and a polyethylene (PE) core. To provide ultra-flat material, aluminum skins shall be bonded in tension to an extruded thermo-plastic core formed in a continuous process without the use of glues or adhesives. Laminated panel construction will not be acceptable.
              - b. Acceptable Manufacturers: Reynobond by Alcoa Architectural Products
              - c. Finish - Minimum 70 percent fluoropolymer resin coating conforming to AAMA 2605. This shall include coating systems utilizing Kynar 500, Hylar 5000 or Megalon. Color shall be selected by Architect from Manufacturer's metallic colors.
              - M. System Thickness: nominal 2 inches.
              - N. Panel Fabrication: panel system shall be completely factory fabricated into pans by way of the route and return method and assembled ready for field installation.
              - O. Panel Joinery: interlocking male/female horizontal and vertical panel joints shall be created by factory attachment of continuous proprietary aluminum extrusions to allow a non-directional installation. Perimeter joint extrusions shall be designed to provide concealed fastening. Perimeter joint extrusions shall also accommodate panel expansion and contraction and provide continuous reinforcement at the panel returns.
              - P. Panel Stiffeners: extruded aluminum stiffeners shall be shop attached and adhered to the back side of the composite material with structural silicone. Stiffeners shall be used wherever panels exceed 4' x 6' or more frequently as deemed necessary by the panel fabricator.
              - Q. Joint Seals: panel-to-panel joints on vertical surfaces shall receive a pre-finished insert, designed to create joint widths and colors as required by the architectural drawings.
              - R. The system to provide 1" deep horizontal and vertical reveal joints using proprietary aluminum extrusions.
              - S. Comply with dimensions, panel sizes, thickness and fabrication details shown on the bid documents.
              - T. Apply protective strippable film to finished surfaces for protection during fabrication, shipment and installation.
              - U. Panel Attachment: The Panel system is to be installed in a manner to allow removal and replacement of an individual panel without displacement of adjacent panels nor dismantling of the wall section.
              - V. Air and Moisture Barrier: provide Tyvek® or approved equal air and moisture barrier behind all panel areas.
              - W. Include all other accessories required for fabrication and installation of the Composite Metal Panel System.
          14. PRE-FINISHED METAL COPING SYSTEM:
            - A. Shall be as specified in Section 13 ALUMINUM COMPOSITE MATERIAL (A.C.M.) PANEL SYSTEM
            - B. Contractor's option: pre-finished metal copings at masonry walls may be fabricated out of aluminum sheet stock material as specified below but shall be furnished in color to match aluminum panel system.
            - C. Form joints between components of manufacturer's standard joint adhesive without conspicuous joints.
            - a. Provide factory cutouts for plumbing fittings and bath accessories as indicated on the drawings.
            - H. Rout and finish component edges with clean, sharp returns.
              - a. Rout cutouts, radii and contours to template.
              - b. Smooth edges.
              - c. Repair or reject defective and inaccurate work.

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Do not scale drawings.  
Use figured dimensions only



architect seal



Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



- issue / revision date
- 10-07-22 Staggered Review
- 11-07-22 Preliminary Budget Review
- 11-18-22 DOH Review
- 11-21-22 Building Permit Review
- 12-01-22 Revised Permit
- 12-09-22 Addendum #1
- 01-11-23 Owner Revision
- 02-09-23 City Review Comments
- 02-09-23 DOH Review Comments
- 02-09-23 Elect. Review Comments

drawn by \_\_\_\_\_ checked by \_\_\_\_\_

**Goldfish Swim School**  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

**Architectural Specifications (Continued)**

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

**dma**  
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**PRCTI20221793**

07260-7 SECTION 07260 VAPOR RETARDERS

This section is based on the products of Reef Industries, Inc., which is located at: 9209 Alameda Genoa Rd., Houston, TX 77075 Tel: (800) 231-6074 www.reefindustries.com

- 1.3 QUALITY ASSURANCE Pre-installation Conference a pre-installation meeting two weeks before start of installation of reinforced vapor retarders.
1.4 DELIVERY, STORAGE, AND HANDLING Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

PART 2 PRODUCTS

- 2.1 MANUFACTURER Acceptable Manufacturer: Griffolyn, Division of Reef Industries, Inc., which is located at: 9209 Alameda Genoa Rd., Houston, TX 77075; Tel Free: 800-231-6074; Tel: 713-507-4200; Email: request info [mailto:reefindustries.com]; Web: www.reefindustries.com
2.2 REINFORCED VAPOR RETARDERS Fire Retardant Reinforced Vapor Retarder: Griffolyn Type-55 FR

2.3 ACCESSORIES

- General: Ensure accessories are from same manufacturer as reinforced vapor retarders.
Mastic Tape: Griffolyn Fab Tape, RI Part Number: 60-0002.
Description: Black, double-sided, asphaltic, pressure-sensitive, mastic tape.

PART 3 EXECUTION

- 3.1 EXAMINATION Examine surfaces and areas to receive reinforced vapor retarders. Notify Architect in writing of any defects of work and other unsatisfactory site conditions that would cause defective installation of vapor retarders.
3.2 INSTALLATION Install vapor retarders continuously at locations as indicated on the drawings.
3.3 PROTECTION Protect reinforced vapor retarders from damage until covered by wall finish.

END OF SECTION

SECTION 07 2400 EXTERIOR INSULATION AND FINISH SYSTEMS

PART 1 GENERAL

- 1.01 SECTION INCLUDES Composite wall cladding of rigid insulation and reinforced finish coating ("Class PB").
1.02 RELATED REQUIREMENTS Section 07 6200 - Sheet Metal Flashing and Trim; Perimeter flashings.
1.03 REFERENCE STANDARDS ASTM B117 - Standard Practice for Operating Sulf Spray (Fog) Apparatus; 2016.
1.04 SUBMITTALS See Section 01 3000 - Administrative Requirements, for submittal procedures.

PART 2 PRODUCTS

- 2.01 MANUFACTURERS Basis of Design: Dryvit Systems, Inc.; Dryvit Outsulation Plus MD Exterior Insulation and Finish System, Class PB with Moisture Drainage; www.dryvit.com/#ile
2.02 EXTERIOR INSULATION AND FINISH SYSTEM Exterior Insulation and Finish System: DRAINAGE type; reinforced finish coating on flat-backed insulation board adhesive-applied directly to water-resistive coating over substrate; provide a complete system that has been tested to show compliance with the following characteristics: include all components of specified system and substrate(s) in tested samples.

- D. Adhesion to Water-Resistive Coating: For each combination of insulation board and substrate, when tested in accordance with ASTM C297/C297M, maximum adhesive failure of 25 percent unless flatwise tensile bond strength exceeds 15 psi (105 kPa) in all samples.
E. Water Penetration Resistance: No water penetration beyond the plane of the base coat/insulation board interface after 15 minutes, when tested in accordance with ASTM E2331 at 6.24 psi (299 Pa) differential pressure with tracer dye in the water spray.
F. Drainage Efficiency: Average minimum efficiency of 90 percent, when tested in accordance with ASTM E2237 for 75 minutes.
G. Salt Spray Resistance: No cracking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 300 hours exposure in accordance with ASTM B117, using at least three samples matching intended assembly, at least 4 by 6 inches (100 by 150 mm) in size.

- 2.03 MATERIALS Finish Coating Top Coat: Water-based, air curing, acrylic or polymer-based finish with integral color and texture.
2.04 ACCESSORY MATERIALS Insulation Adhesive: Type required by EIFS manufacturer for project substrate.

PART 3 EXECUTION

- 3.01 GENERAL Install in accordance with EIFS manufacturer's instructions and ASTM C1397.
3.02 EXAMINATION Verify that substrate is sound and free of oil, dirt, other surface contaminants, efflorescence, loose materials, or protrusions that could interfere with EIFS installation and is of a type and construction that is acceptable to EIFS manufacturer.
3.03 PREPARATION Apply primer to substrate as recommended by EIFS manufacturer for project conditions.
3.04 INSTALLATION - GENERAL Install in accordance with EIFS manufacturer's instructions and ASTM C1397.

END OF SECTION

Division 8: Doors and Windows

- 1. ALUMINUM STOREFRONT DOORS AND WINDOWS:
A. Door: Kawneer No. 350 standard medium size entrance door for 1/2" glazing, 1-3/4-inch-thick glazed door with minimum 0.125-inch-thick, extruded tubular rail and stile members, mechanically fastened corners with reinforcing brackets that are deep penetration and lift welded or that incorporate concealed tie-rods, snap-on extruded-aluminum glazing stops, and preformed gaskets.
2. INTERIOR HOLLOW METAL DOORS AND FRAMES:
A. Type: flush, 1 1/2" thick, [1-1/4] by steelcraft .
B. Material: 16 gauge galvanized steel; ASTM a525.
C. Core: polyurethane solid core with R factor of 11.1.
D. Finish: one coat, baked-on rust inhibiting prime paint; ANSI a224.1.
E. Rating: refer to door and frame schedule.

- INTERIOR HOLLOW METAL DOOR FRAMES:
A. Type: drywall welded, 2" face, double rabbet, (dhw-1/4") by steelcraft .
B. Material: 16 gauge cold-rolled steel; ASTM a366, 16 gauge galvanized steel; ASTM a525 (at toilet rooms).
C. Anchors: (manufacturer's standard).
D. Finish: one coat, baked-on rust inhibiting prime paint; ANSI a224.1.
E. Silencers: provide three single rubber silencers for single doors on strike side.
F. Rolling: refer to door and frame schedule.
G. Size: refer to door and frame schedule and verify fit in field prior to fabrication.
7. FINISH FOR HOLLOW METAL DOORS AND FRAMES:
A. Primer: one coat, baked-on by door and frame manufacturer.
B. Finish: two coats enamel paint. Submit full range of standard colors for selections by architect. Refer to section 09000-painting for field painting of doors and frames.
8. INSTALLATION:
A. Install frames in accordance with id-105.
B. Install doors in accordance with door hardware institute (dhi), ASTM D2247.
C. Coordinate wallboard wall construction for anchor placement.
D. Coordinate installation of finish hardware.
E. Coordinate installation of glass and glazing.

- 9. HARDWARE: Provide hardware only as scheduled - not all items that follow are utilized.
A. The following items shall be not be substituted for alternatives.
B. Hinges: Butt type, Hager, provide the following:
C. Stainless-steel or brass/bronze hinges with stainless-steel pins for exterior.
D. Nonremovable hinge pins for exterior and public interior exposure.
E. Ball-bearing hinges for doors with closers and entry doors.
F. Cylinder Latches: Schlage "AL" series with hand handle latchset "Satum" Style.
G. Key locks to Owner's Schlage master-key system.
H. Cylinders, cores to be verified.
I. Provide thumb-turn cylinders for storefront doors, and other locking devices that do not require other hardware.
J. Provide construction keying for exterior and public interior exposure.
K. Programmable Lock: Schlage Pro-Series with #06 Lever Handles.
L. Standard Closers: Provide the following:
M. Closers to be per ILCN, surface/universal mount, with backcheck, per barrier free requirements.
N. Where possible mount closers on interior side (room side) of door opening. Provide regular-arm, parallel-arm, or top-jamb-mounted closers as necessary.
O. Adjustable delayed opening (accessible to the disabled) feature on closers.
P. Exit Devices: Van Dusen Series 98/99 with concealed vertical rods, breakaway lever trim #99AL, and #06 exterior lever handles.
Q. Provide miscellaneous door hardware as/lf scheduled and as follows:
R. Wall Bump: Hager, 236 series.
S. Floor Bump: Rockwood 470 - 471.
T. Thresholds: National Guard Products - barrier-free, aluminum mill finish.
U. Weatherstripping/Sweeps: National Guard Products.
V. Overhead Stop: Dan-Jo #3524.
W. Latch Protector: Rockwood 320.
X. Provide hardware finishes as follows:
Y. Hinges: Matching finish of lockset/latchset.
Z. Locksets, Latchsets, and Exit Devices: As applicable, US26D or #26 (stain chrome plated).
AA. Closers: Aluminum enamel.
AB. Other Hardware: Matching finish of lockset/latchset.
CYLINDERS, KEY CONTROL, AND KEYING:
A. Cylinders shall be mortise or rim type as required by function of locking device. Provide cams or tailpiece as required.
B. Supplier to meet with Owner and General Contractor to finalize project keying requirements and obtain keying requirements in writing. Supplier shall include this cost in his bid.
C. Provide temporary construction locks during construction period. Provide permanent cores at project completion. Supplier shall include this cost in his bid.
D. Permanent cores shall be per owner requirements. In sets or subsets, master keyed or great grand master keyed as directed by owner. Permanent keys and cylinders shall be marked with the applicable blind code for identification. Permanent keys will be stamped "Protected".
E. Stub locks and cylinders with patent protected full size cylinders with nickel silver blocking pin to check for patented feature on keys. Provide a minimum of six copies. Cylinders must allow for multiple master keying, combined to Owner's instructions. Upon completion of keying/coring, deliver final keys to Owner including key cabinet if requested.
PROTECTION:
A. Protect all hollow metal work in place against damage of any kind. Damaged material shall be replaced at no additional cost to the owner.
WOOD DOORS:
A. Provide and install doors as indicated on drawings.
B. Provide interior doors: 1-3/4" inches thick solid wood construction as indicated on drawings.
C. Install and trim doors in accordance with manufacturer's instructions.
D. Where required by code, glazing shall comply with safety/tempering guidelines.
WINDOWS AND DOOR ROUGH OPENINGS:
A. All swing door, to be 2 inches wider.
B. Confirm rough heights for typical doors and windows with finish flooring material.
C. Provide minimum 3/4 inch clearance over windows and doors to header.
D. Install white aluminum z-flashing above all exterior openings, windows, door, etc.
DOOR HARDWARE:
A. See attached plans hardware specifications.
INTERIOR DOORS FINISHES:
A. Interior doors are to be as specified in the construction documents. All doors to be paint grade. See attached drawings.
WINDOWS:
A. All custom cabinet work and counters to be tongue and grooved, glued and screwed together on the bench, put together with as few nails as possible, and brought to the building, ready to set in place.

END OF SECTION

Division 9: Finishes

SECTION 09 67 26 POOL DECK HERMETIC QUARTZ RESURFACING (NOT IN SCOPE)

END OF SECTION

- GYPSUM BOARD SYSTEMS:
A. Provide and install gypsum board, accessories and taped and sanded joint treatment where indicated, on drawings.
B. The completion of any finish material shall indicate subcontractor's acceptance of the subsurface conditions and job will be held responsible for any defects after material application.
C. Scarily, grind or etch substrate to remove irregularities due to previous finish application.
D. Subcontractor shall notify the G.C. in writing, with copy issued to architect, if any conditions exist that will be detrimental to proper finish material installation.
E. The G.C. is responsible for final cleanup of all areas affected by construction. This includes before finishes (painters, carpet, etc.), and after finishes. All waste materials to be disposed of in proper receptacles removed from site and legally disposed of.
ACCEPTABLE MANUFACTURERS-GYPSUM BOARD SYSTEM:
A. United States Gypsum Corporation.
B. Other acceptable manufacturers offering equivalent products: National gypsum (goldbond), Celotex Corporation, Flintkote Company Georgia-Pacific Corporation
GYPSUM BOARD MATERIALS:
A. Standard gypsum board: ansi/ASTM c86; 5/8" thick, maximum permissible length; ends square cut, tapered edges.
B. Fire rated gypsum board: ansi/ASTM c86; fire resistive type, UL rated; 5/8" inch thick, maximum permissible length; ends square cut, tapered edges; Type C at ceilings
CUTTING, FITTING AND TRIMMING:
A. Accurately measure and precut gypsum wallboard units prior to installation. Maintain close tolerances for accurate fit. Cut edges smooth as required for neat and accurate fit.
B. Locate joints as recommended by manufacturer and as dictated by good practice to avoid cracking.
GYPSUM BOARD INSTALLATION:
A. Provide 5/8" board on walls and 5/8" board on ceilings. Glue and screw ceilings. Glue and nail walls, perimeter of board only, and allowing interior to "float" on balls of glue. Use cement board in wet areas.
B. Install gypsum board in accordance with ga 201 and ga 216, and manufacturer's instructions.
C. Install gypsum wallboard board with face side out. Do not install imperfect or damaged wallboard boards, or if, do not face into place.
D. Locate edges or end joints vertically over supports, except where intermediate supports or gypsum board back blocking is provided behind ends and joints. Do not locate tapered edge joints abut and nail cut or field cut joints abut. Do not place tapered edge joints against cut edges or ends. Stagger vertical joints over different studs on opposite sides of partitions/walls.
E. Provide additional framing and blocking as required to support gypsum wallboard at openings and cutouts, and to support built-in anchorage and attachment devices for other work.
F. Use recommended screws when fastening gypsum board to metal lurring of framing.
G. Etch single layer fire-rated gypsum board with edges and ends occurring over firm bearing and as required by ul for design number indicated or required.
H. Where steel columns and beams are shown to be enclosed with fire-rated wallboard construction, provide free-standing vertical steel stud lurring as required to support gypsum wallboard with not less than 1/2" clearance between steel and lurring or steel and wallboard.
I. Place corner joints consistent with lines of building spaces as indicated.
J. Place control beads at external corners as indicated. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials as indicated.
K. Where penetrations occur in fire rated walls, pack solid the joint around such penetrations with the fire rated insulation as recommended by the manufacturer and approved by ul.
L. After installation of wallboard, check for loose fasteners and, if detected, drive tight. Where paper face is torn or punctured, install another fastener approximately 1-1/2" away and remove faulty fastener.
JOINT TREATMENT:
A. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
B. Feather coats onto adjoining surfaces so that tamber is maximum 1/32 inch.
C. Taping, filling, and sanding is not required at surfaces behind adhesive applied ceramic.
TILE:
A. All tile shall be from one manufacturer and from same production run.
B. Grout shall be from one manufacturer of uniform quality and color.
C. Ceramic tile and quarry tile shall be as selected by owner.
D. Ceramic, porcelain, and quarry tile shall be installed by a qualified contractor. Slope all floors to floor drains as required. In areas of existing construction, grout shall be installed to joints to prevent water from leaking back to floor drain.
E. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions, unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignment.
F. Accurately form intersections and returns. Perform cutting and drilling of tile without maring visible surfaces. Carefully grind cut edges of tile abutting rim, finish, or built-in items for straight aligned joints. Fill tile closely to electrical outlets, piping, fixtures and other penetrations so plates, collars, or covers overlap tile.

- Jointing pattern: lay tile in grid pattern, unless otherwise indicated. Align joints when adjoining files on floor, base, walls and trim are the same size. Lay out tile walls and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwise indicated.
For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so joints between sheets are not apparent in finished work.
8. SUSPENDED CEILING: N/A
9. VINYL WALL BASE:
A. Resilient wall base to be as specified in the Drawings. Install per manufacturer's instructions.
B. Comply with manufacturer's installation specifications for preparing substrates and installing products specified in this section using methods indicated according to manufacturer's installation directions.
C. Apply resilient wall base to walls, columns, pilasters, casework and other permanent fixtures in rooms or areas where base is required. Install wall base in lengths as long as practicable. Tightly adhere wall base to substrate throughout length of each piece, with base in continuous contact of horizontal and vertical substrates.
D. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient wall base with manufacturer's recommended adhesive filler material.
E. Install inside and exterior corners before installing straight pieces.
F. Place resilient accessories so they are tightly butted to adjacent materials of type indicated and bond to substrates with adhesive. Install reducer strips at edges of flooring which would otherwise be exposed.
PAINTING AND FINISHING:
A. Work of this section shall include all preparation, painting and finishing of interior and exterior finishes in accordance with the room and finish schedule on drawings and requirements of this section as required to decorate the building completely unless noted or scheduled otherwise.
B. All colors shall be as indicated on the plans.
ENVIRONMENTAL REQUIREMENTS:
A. Provide continuous ventilation and heating facilities to maintain surface and ambient temperatures above 45 degrees F for 24 hours before, during, and 48 hours after application of finishes, unless required otherwise by manufacturer's instructions.
B. Do not apply exterior coatings during rain or snow, or when relative humidity is above 50 percent, unless required otherwise by manufacturer's instructions.
C. Minimum application temperatures for latent points: 45 degrees F for interiors; 50 degrees F for exterior, unless required otherwise by manufacturer's instructions.
D. Minimum application temperature for varnish and stain finishes: 65 degrees F for interior or exterior, unless required otherwise by manufacturer's instructions.
E. Correct minor defects and clean surfaces which affect work of this section.
F. Stitches and seal marks which may bleed through surface finishes.
G. Gypsum board and surfaces: latex fill minor defects. Spot prime defects after repair.
H. Galvanized surfaces: remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
I. Interior wood items scheduled to receive opaque finish: wipe off dust and grit prior to priming. Seal knots, pitch streaks, and end sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats.

END OF SECTION

Division 10: Specialties

- METAL TOILET COMPARTMENTS:
A. Toilet rooms and barrier free toilet rooms where indicated on drawings or as required.
2. FLOOR MATS AND FRAMES:
A. Floor mat and frame shall be as Manufactured by Reese Enterprises, Inc., Rosemount, MN.
B. Floor Mat: "Perfec Mat", rubber hinge, anodized aluminum rails, with carpet inserts.
C. Carpet Inserts Color: To be selected by Architect from 13 standards.
D. Aluminum Rails Finish: To be selected by Architect from standards.
E. Size: To fill in specified frame size, 3'4" w. x 4'1".
F. Mat Frame: No. 548, extruded-aluminum multi-purpose surface mounted frame; size and style to fit floor mat.
G. Frame Size (Main Vestibule): 48" w. x 72" l.
H. Frame Color: To be selected from seven [7] by Architect.
I. Accessories: Provide vinyl spacers as/lf required to accommodate gaps between mat and frame, maximum 2 inches in either direction.
Toilet Partitions: Provide floor mounted, overhead braced type steel toilet partitions. Panels shall be 1" thick with steel reinforcement for all hardware, Color 1B0 by owner.
MECHANICAL CODE:
1. All workmanship and materials shall comply with current standards and specifications of current local code and the current Mechanical Code.
2. Refer to Mechanical drawings for all other specifications pertaining to this project.
3. All workmanship and materials shall comply with current standards and specifications of current local code and the current Plumbing Code.
4. Refer to Plumbing drawings for all other specifications pertaining to this project.

END OF SECTION

Division 15: Mechanical

- 1. All workmanship and materials shall comply with current standards and specifications of current local code and the current Mechanical Code.
2. Refer to Mechanical drawings for all other specifications pertaining to this project.
3. All workmanship and materials shall comply with current standards and specifications of current local code and the current Plumbing Code.
4. Refer to Plumbing drawings for all other specifications pertaining to this project.

END OF SECTION

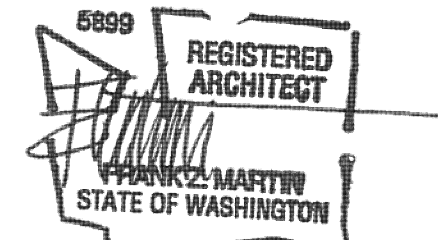
Division 16: Electrical

- 1. All workmanship and materials shall comply with current standards and specifications of current local code and the current Electrical Code. Contractor shall secure all necessary permits and inspections.
2. Refer to Electrical drawings for all other specifications pertaining to this project.

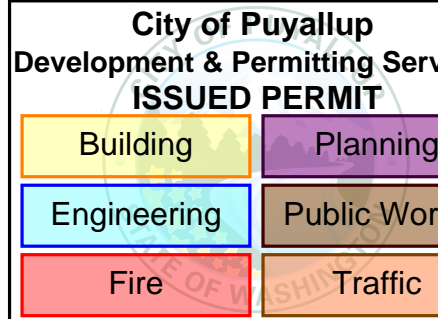
END OF SECTION

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Do not scale drawings. Use figure dimensions only



architect seal



Client Goldfish Swim School H&H Swim School Puyallup, WA F.A. #272

Brand Standards All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



- issue / revision date
10-07-22 Staggered Review
11-07-22 Preliminary Budget Review
11-18-22 DOH Review
11-21-22 Building Permit Review
12-01-22 Revised Permit
12-09-22 Addendum #1
01-11-23 Owner Revision
02-09-23 City Review Comments
02-09-23 DOH Review Comments
02-09-23 Elect. Review Comments

drawn by checked by

Goldfish Swim School South Hill Mail - Unit 900-30 3500 South Meridian Puyallup, WA 98373 Architectural Specifications (Continued)

project: sheet title:

dma DORCHEN / MARTIN Dorchen/Martin Associates, Inc. Architects/Planners 2999S Greenfield Rd., Suite 107 Southfield, Michigan 48076 (248) 551-1062 www.dorchenmartin.com

job number sheet number

22006 A.007

1. STRUCTURAL NOTES
  - 1.1. ANY DISCREPANCY FOUND AMONG THE DRAWINGS, SPECIFICATIONS, THESE NOTES, AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND THE STRUCTURAL ENGINEER, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION BRACING, FORMWORK AND TEMPORARY CONSTRUCTION SHORING.
  - 1.2. BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE CONTRACTOR WARRANTS THAT:
    - 1.2.1. THE CONTRACTOR AND ALL SUBCONTRACTORS THEY INTEND TO USE (INCLUDING AGENTS AND SUPPLIERS) HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS AND STRUCTURAL NOTES AND HAVE FOUND THEM COMPLETE AND FREE FROM AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED.
    - 1.2.2. THE CONTRACTOR HAS CAREFULLY EXAMINED THE SITE OF THE WORK AND FROM THEIR OWN INVESTIGATIONS, THEY HAVE SATISFIED THEMSELVES AS TO THE NATURE AND LOCATION OF THE WORK, AS TO THE CHARACTER, QUALITY, AND QUANTITIES OF MATERIAL AND DIFFICULTIES TO BE ENCOUNTERED, AS TO THE EXTENT OF EQUIPMENT AND OTHER FACILITIES NEEDED FOR THE PERFORMANCE OF THE WORK AND AS TO THE GENERAL AND LOCAL CONDITIONS, AND OTHER ITEMS WHICH MAY IN ANY WAY AFFECT THE WORK OR ITS PERFORMANCE.
    - 1.2.3. THE CONTRACTOR AND ALL WORKERS THEY INTEND TO USE ARE SKILLED AND EXPERIENCED IN THE TYPE OF CONSTRUCTION REPRESENTED BY THE DRAWINGS AND DOCUMENTS BID UPON.
    - 1.2.4. NEITHER THE CONTRACTOR NOR ANY OF THEIR EMPLOYEES, AGENTS, INTENDED SUPPLIERS, OR SUBCONTRACTORS HAVE RELIED UPON ANY VERBAL REPRESENTATIONS ALLEGEDLY AUTHORIZED OR UNAUTHORIZED FROM THE OWNER OR THEIR EMPLOYEES OR AGENTS, INCLUDING THE ARCHITECT OR ENGINEERS, IN ASSEMBLING THE BID FIGURES.
    - 1.2.5. THE REQUIREMENTS CONTAINED WITHIN THIS SECTION SUPERSEDE REQUIREMENTS AND/OR RECOMMENDATIONS CONTAINED IN THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES", AS WELL AS CASE DOCUMENT 962-D "A GUIDELINE ADDRESSING COORDINATION AND COMPLETENESS OF STRUCTURAL CONSTRUCTION DOCUMENTS"
    - 1.2.6. THE CONTRACTOR AND ALL SUBCONTRACTORS THEY INTEND TO USE ARE AWARE OF AND ACKNOWLEDGE THAT CLOSE COORDINATION AMONG ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS IS REQUIRED.
    - 1.2.7. THE CONTRACTOR AND ALL SUBCONTRACTORS THEY INTEND TO USE SHALL RECOGNIZE THAT THE PROJECT CONTRACT DOCUMENTS INCLUDE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL AND OTHER TRADE DRAWINGS AND SPECIFICATIONS
    - 1.2.8. CONTRACTOR AND ALL SUBCONTRACTORS ACKNOWLEDGE THAT CLOSE COORDINATION BETWEEN DISCIPLINES INCLUDED WITHIN THE CONTRACT DOCUMENTS IS NECESSARY. ELEMENTS THAT WILL REQUIRE CLOSE COORDINATION BY THE CONTRACTOR INCLUDE (BUT ARE NOT LIMITED TO):
      - A. VERIFICATION OF ALL DIMENSIONS INDICATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS
      - B. DETERMINATION OF ALL COLUMN LOCATIONS
      - C. DETERMINATION OF TOP OF FLOOR, TOP OF STEEL, WALL PLATE AND/OR TOP OF BEAM ELEVATIONS
      - D. DETERMINATION OF TOP OF FOOTING ELEVATIONS AND FOOTING STEP LOCATIONS
      - E. MECHANICAL/ELECTRICAL EQUIPMENT LOCATIONS AND WEIGHTS
      - F. LOCATION AND SIZE OF ALL MECHANICAL/ ELECTRICAL PENETRATIONS THROUGH WALLS AND FLOORS/ ROOFS
      - G. COORDINATION WITH DESIGNERS/ SUPPLIERS OF PRE-ENGINEERED COMPONENTS (JOISTS, TRUSSES, STAIRS, ETC.)
    - 1.2.9. THE CONTRACTOR ACKNOWLEDGES THAT TEMPORARY SHORING AND/OR BRACING MAY BE REQUIRED TO COMPLETE THE PROJECT. DESIGN AND IMPLEMENTATION OF TEMPORARY SHORING AND/OR BRACING DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
    - 1.2.10. THE CONTRACTOR AND ALL SUBCONTRACTORS THEY INTEND TO USE SHALL MAKE CONSIDERATION FOR, AND INCLUDE MONIES FOR THE ABOVE IN THE PREPARATION OF THEIR BIDS.
    - 1.2.11. THE CONTRACTOR SHALL NOT SCALE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF ELEMENTS NOTED ABOVE.
    - 1.2.12. ELECTRONIC COPIES OF THE STRUCTURAL DRAWINGS (PDFS, CAD DRAWINGS OR BIM MODELS) MAY BE PROVIDED TO THE CONTRACTOR FOR THEIR USE. THESE FILES MAY BE PROVIDED AT THE REQUEST OF THE CONTRACTOR FOR THEIR CONVENIENCE ONLY. THE CONTRACTOR AGREES THAT THESE FILES SHALL NOT SUPERSEDE INFORMATION SHOWN ON THE ORIGINAL BID/ CONSTRUCTION DOCUMENTS. THE CONTRACTOR AGREES TO HOLD THE STRUCTURAL ENGINEER HARMLESS FOR ANY ERRORS OR DISCREPANCIES CONTAINED WITHIN THESE ELECTRONIC FILES.
    - 1.2.13. THE BID FIGURE IS BASED SOLELY UPON THE CONSTRUCTION CONTRACT DOCUMENTS AND PROPERLY ISSUED WRITTEN OR VERBAL REPRESENTATIONS.
  - 1.3. EXISTING BUILDING CONDITIONS
    - 1.3.1. STRUCTURAL DESIGN IS BASED ON EXISTING FRAMING CONDITIONS OBSERVED AND FIELD MEASURED AND DESCRIBED IN ORIGINAL CONSTRUCTION DRAWINGS. FIELD OBSERVATIONS DURING DESIGN ARE LIMITED TO AREAS OPEN TO VIEW AND ACCESSIBLE.
    - 1.3.2. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FRAMING CONDITIONS FOR COMPLIANCE WITH THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS PRIOR TO DEMOLITION AND CONSTRUCTION. AS-BUILT DEVIATIONS FROM THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER PRIOR TO EXECUTION OF WORK IN THE AREAS AFFECTED BY THE DISCREPANCY.
    - 1.3.3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE REINFORCING IN EXISTING CONCRETE OR MASONRY CONSTRUCTION PRIOR TO SAW-CUTTING OR CORE-DRILLING CUTTING OF EXISTING REINFORCING SHALL NOT BE PERMITTED UNLESS DIRECTED BY THE ENGINEER.
    - 1.3.4. WHEN SAW-CUTTING EXISTING CONCRETE OR MASONRY CONSTRUCTION, OVER-CUTTING OF CORNERS SHALL NOT BE PERMITTED.
  - 1.4. CODES
    - 1.4.1. ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING AUTHORITY.

- 1.4.2. ALL REFERENCES TO OTHER CODES, STANDARDS AND SPECIFICATIONS, (ACI, ASTM, ETC.), SHALL BE FOR THE EDITION CURRENTLY REFERENCED BY IBC AS AMENDED AND ADOPTED BY THE LOCAL BUILDING AUTHORITY.
  - 1.4.3. ALTERATIONS TO EXISTING BUILDINGS SHALL CONFORM TO THE 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING AUTHORITY.
  - 1.5. DESIGN CRITERIA
    - 1.5.1. UNIFORM LOADS:
 

LOCATION	LIVE LOAD	DEAD LOAD
ROOF	25 PSF (SNOW*)	ACTUAL
ROOF	25 PSF (SNOW*)	ACTUAL +4 PSF
	(SOLAR READINESS ZONE **)	+175 PSF (INVERTER)
STAIRS AND EXITS	100 PSF	ACTUAL
SLAB ON GRADE	125 PSF	ACTUAL
	OR 2000# CONCENTRATED LOAD	
HANDRAILS AND GUARDS	50 PLF	ACTUAL
	OR 200# CONCENTRATED LOAD	
* THIS IS NOT A GROUND SNOW LOAD		
** SOLAR READINESS ZONE PER WA STATE ENERGY CODE, COMMERCIAL PROVISIONS, CHAPTER 51-11C WAC.		
    - 1.5.2. SNOW LOADS PER IBC SECTION 1608 AND CHAPTER 7 OF ASCE 7:
 

GROUND SNOW LOAD (P <sub>g</sub> ):	25 PSF
FLAT ROOF SNOW LOAD (P <sub>f</sub> ):	14 PSF
SNOW EXPOSURE FACTOR (C <sub>e</sub> ):	1.0
SNOW IMPORTANCE FACTOR (I <sub>s</sub> ):	1.0
THERMAL FACTOR (C <sub>t</sub> ):	1.0
    - 1.5.3. CONCENTRATED LOADS: ALL MANUFACTURERS OF PRE-ENGINEERED COMPONENTS OR SYSTEMS SHALL LOCATE, COORDINATE, VERIFY WEIGHTS, ETC., OF MECHANICAL UNITS OR OTHER CONCENTRATED LOADS AND DESIGN THEIR SYSTEM FOR THESE LOADS.
    - 1.5.4. WIND LOADS (PER IBC SECTION 1609 AND ASCE 7 CHAPTERS 26 THRU 30); NO MODIFICATIONS ARE BEING MADE TO THE WIND-FORCE RESISTING SYSTEM AS A PART OF THIS PROJECT
 

BASIC WIND SPEED (V):	97 MPH
RISK CATEGORY:	II
WIND EXPOSURE:	B
APPLICABLE INTERNAL PRESSURE COEFFICIENT:	+/-0.18
TOPOGRAPHIC FACTOR (K <sub>z</sub> ):	1.0
    - 1.5.5. SEISMIC LOADS (PER IBC SECTION 1613 AND ASCE 7 CHAPTERS 11 THRU 13); NO MODIFICATION ARE BEING MADE TO THE SEISMIC-FORCE RESISTING SYSTEM AS A PART OF THIS PROJECT
 

RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR (I <sub>s</sub> ):	1.0
S <sub>1</sub> :	1.264
S <sub>2</sub> :	0.436
SITE CLASS:	D - DEFAULT *
S <sub>0.1</sub> :	1.011
S <sub>0.2</sub> :	N/A
SEISMIC DESIGN CATEGORY:	D
- | SEISMIC FORCE-RESISTING SYSTEM             | RESPONSE MODIFICATION COEFFICIENT, R | OVERSTRENGTH FACTOR, Ω <sub>f</sub> |
|--|--------------------------------------|-------------------------------------|
| A. BEARING WALL SYSTEMS:                   |                                      |                                     |
| 1. SPECIAL REINFORCED CONCRETE SHEAR WALLS | 5                                    | 2%                                  |
- NOTE: TABULATED OVERSTRENGTH FACTOR HAS BEEN REDUCED IN ACCORDANCE WITH ASCE 7 TABLE 12.2-1 FOOTNOTE B FOR STRUCTURES WITH FLEXIBLE DIAPHRAGMS.

- D. CONCURRENT SHOP DRAWING REVIEW SHALL ONLY BE PERMITTED IF APPROVED BY THE ARCHITECT/ENGINEER OF RECORD PRIOR TO THE START OF SHOP DRAWING REVIEW.
- 1.8. MISCELLANEOUS
  - 1.8.1. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD.
  - 1.8.2. VERIFY SIZE AND LOCATION OF ALL OPENINGS IN THE FLOORS, ROOF AND WALLS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
  - 1.8.3. CONSTRUCTION DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS OF SECTIONS OF THIS PROJECT AS APPROVED BY THE ARCHITECT/ENGINEER.
  - 1.8.4. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF OPENINGS NOT DIMENSIONED OR SHOWN ON STRUCTURAL PLANS.
  - 1.8.5. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND WEIGHTS OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING HOUSEKEEPING PADS.
  - 1.8.6. FOR PIPES, CONDUITS, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE: CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. PUBLICATION "APPENDIX E: SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS;" ALL BRACING AND SUPPORTS SHALL BE DESIGNED FOR SEISMIC HAZARD LEVEL (SHL) B. SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.
  - 1.8.7. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE REQUIRED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY, ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, AND BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. WHERE SHORING IS REQUIRED, A SHORING PLAN, STAMPED BY A LICENSED PROFESSIONAL/STRUCTURAL ENGINEER SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. SITE PREPARATION/SOIL REMEDIATION
  - 2.1. SOIL DATA
 

ALLOWABLE SOIL PRESSURE 3000 PSF. ALLOW 33-1/3% INCREASE FOR LOADS FROM WIND OR SEISMIC ORIGIN. SEE GEOTECHNICAL ENGINEERING REPORT BY ORIGINAL ENGINEERS DATED 9/5/1993. SEE GEOTECH REPORT FOR ALL SUBGRADE PREPARATION REQUIREMENTS AS WELL AS CAPILLARY BREAK AND VAPOR BARRIER RECOMMENDATIONS.
  - 2.2. EXCAVATION
 

EXCAVATE TO DEPTH SHOWN AND TO FIRM UNDISTURBED MATERIAL. OVER-EXCAVATIONS SHALL BE BACKFILLED WITH LEAN CONCRETE (f<sub>c</sub>=500-1200 PSI) OR STRUCTURAL FILL AT THE CONTRACTOR'S EXPENSE. EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM THE ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AS NECESSARY TO AVOID WATER-SOFTENED SUBGRADE.
  - 2.3. FILL, BACKFILL AND COMPACTION
 

BACKFILL AGAINST WALLS SHALL NOT BE PLACED UNTIL AFTER THE REMOVAL OF ALL MATERIAL SUBJECT TO ROT OR CORROSION. ALL FILL PLACED AGAINST RETAINING WALLS OR BASEMENT WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL. STRUCTURAL FILL OTHER THAN PEA GRAVEL SHALL BE GRANULAR PLACED IN 6-INCH LIFTS AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MOD PROCTOR). PEA GRAVEL FILL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3/8" DIAMETER.
  3. STRUCTURAL CONCRETE
    - 3.1. GENERAL
 

ALL CONCRETE SHALL BE HARD ROCK CONCRETE MEETING THE REQUIREMENTS OF ACI-301. \*SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.\* PROPORTIONING OF INGREDIENTS FOR EACH CONCRETE MIX SHALL BE BY METHOD 2 OR THE ALTERNATE PROCEDURE GIVEN IN ACI-301. PLACE CONCRETE PER ACI-304 AND CONFORM TO ACI-604 (306) FOR WINTER CONCRETING AND ACI-605 (305) FOR HOT WEATHER CONCRETING. USE INTERIOR MECHANICAL VIBRATORS WITH 7,000 RPM MINIMUM FREQUENCY. DO NOT OVER-VIBRATE. CONCRETE SHALL BE PLACED MONOLITHICALLY BETWEEN CONSTRUCTION OR CONTROL JOINTS. PROTECT ALL CONCRETE FROM PREMATURE DRYING, EXCESSIVE HOT OR COLD TEMPERATURE FOR SEVEN DAYS AFTER PLACING.
    - 3.2. STRENGTH
 

TWENTY-EIGHT DAY COMPRESSIVE STRENGTHS (f<sub>c</sub>) SHALL BE AS FOLLOWS WITH EXPOSURE CATEGORY AND CLASS PER ACI TABLE 19.3.1.1 GIVEN IN PARENTHESES:

SLABS ON GRADE (F0/S0/W0/C0)	4000 PSI
FOOTINGS (F0/S0/W0/C1)	3000 PSI
VERTICALLY FORMED WALLS (F1/S0/W0/C0)	4000 PSI *

\* MAXIMUM W/C RATIO SHALL BE 0.55

CONCRETE SUPPLIER TO PROVIDE TEST RECORDS PER SECTION 26.4 OF ACI 318. WHEN NO PRIOR EXPERIENCE OR TRIAL MIXTURE DATA ARE AVAILABLE, THE WATER/CEMENT RATIO FROM THE TABLE BELOW MAY BE USED, BUT ONLY WHEN SPECIAL PERMISSION IS GIVEN BY ENGINEER.

SPECIFIED COMPRESSIVE STRENGTH	NON-AIR ENTRAINED CONCRETE	AIR-ENTRAINED CONCRETE
3000 PSI	0.58	0.46
4000 PSI	0.44	0.35

MAXIMUM ABSOLUTE WATER/CEMENT RATIO BY WEIGHT FOR CONCRETE MIXES WITHOUT TEST RECORDS SHALL BE AS FOLLOWS:

4" SLAB ON GRADE	12"-0" OC
6" SLAB ON GRADE	18"-0" OC
    - 3.3. MATERIALS
      - 3.3.1. CEMENT: ASTM C150, TYPE I OR TYPE II. ENGINEER'S APPROVAL IS NEEDED FOR USE OF TYPE III CEMENT.
      - 3.3.2. COARSE AND FINE AGGREGATE: ASTM C33.
      - 3.3.3. WATER SHALL BE CLEAN AND POTABLE.
      - 3.3.4. FLYASH: ASTM C618 CLASS C (CLASS F MAY BE ALLOWED IF APPROVED BY THE STRUCTURAL ENGINEER)
      - 3.3.5. GROUND GRANULATED BLAST FURNACE SLAG (GGFS): ASTM C989 GRADE 100 OR 120. GGFS SHALL NOT BE PERMITTED UNLESS REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER. MIX DESIGNS SUBMITTED INCLUDING GGFS SHALL INCLUDE SHRINKAGE TEST RESULTS AT 28 DAYS.

- 3.4. ADMIXTURES
  - 3.4.1. WATER REDUCING ADMIXTURE: ASTM C494. ADMIXTURES SHALL BE USED IN EXACT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
  - 3.4.2. WATER REDUCING ADMIXTURES SHALL BE USED AT ALL HEAVILY CONGESTED AREAS (I.E. CONCRETE BEAMS, COLUMNS AND WALLS WITH REINFORCING SPACING OF 4" OR LESS)
  - 3.4.3. CONCRETE USING ADMIXTURES TO PRODUCE FLOWABLE CONCRETE MAY BE USED SUBJECT TO ENGINEER'S APPROVAL.
  - 3.4.4. AIR ENTRAINMENT: ASTM C260 AND ASTM C494 ENTRAIN 5% PLUS/MINUS 1.5% BY VOLUME IN ALL CONCRETE EXPOSED TO WEATHER.
  - 3.4.5. NO OTHER ADMIXTURES PERMITTED UNLESS APPROVED BY THE ENGINEER.
- 3.5. FORMWORK AND SHORING
  - 3.5.1. FOLLOW RECOMMENDED PRACTICE FOR CONCRETE FORMWORK (ACI-347).
  - 3.5.2. RESHORING FOR EARLY REMOVAL OF ORIGINAL SUPPORTS WILL NOT BE PERMITTED.
  - 3.5.3. WHILE RESHORING OPERATIONS ARE UNDERWAY, NO CONSTRUCTION LOADS WILL BE PERMITTED ON THE NEW CONSTRUCTION.
  - 3.5.4. ALL SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMWORK SUPPORTS AND SHORING SHALL BE DESIGNED TO PROVIDE FINISHED CONCRETE SURFACES AT ALL FACES LEVEL, PLUMB AND TRUE TO THE DIMENSIONS AND ELEVATIONS SHOWN. TOLERANCES AND VARIATIONS SHALL BE AS SPECIFIED.
  - 3.5.5. A SHORING PLAN STAMPED BY A LICENSED PROFESSIONAL ENGINEER SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 3.6. REINFORCING STEEL:
  - 3.6.1. DETAIL, FABRICATE AND PLACE PER ACI-315 AND ACI-318. SUPPORT REINFORCEMENT WITH APPROVED CHAIRS, SPACERS, OR TIES.
  - 3.6.2. DEFORMED BAR REINFORCEMENT: ASTM A615 GR 60
  - 3.6.3. WELDABLE DEFORMED BAR REINFORCEMENT: ASTM A706 GR 60 WHERE NOTED ON STRUCTURAL DRAWINGS
  - 3.6.4. LONGITUDINAL (VERTICAL) REINFORCEMENT RESISTING SEISMIC MOMENT AND/OR AXIAL FORCES IN SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS INCLUDING BOUNDARY ELEMENTS, COUPLING BEAMS AND WALL PIERS SHALL BE ASTM A706 GR 60. ASTM A615 GR 60 MAY BE USED IF:
    - A. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD BY MORE THAN 18 KSI; AND
    - B. THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRENGTH TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25; AND
    - C. MINIMUM ELONGATION IN 8-INCH SHALL BE AT LEAST 14% FOR #3 THRU #6 BARS, AT LEAST 12% FOR #7 THRU #11 BARS, AND AT LEAST 10% FOR #14 THRU #18.
  - 3.6.5. WELDED WIRE FABRIC: ASTM 1064 GR 65
  - 3.6.6. DEFORMED BAR ANCHORS: ASTM A496
  - 3.6.7. HEADED SHEAR STUD REINFORCEMENT: ASTM A1044
  - 3.6.8. EXCEPT AS NOTED SPECIFICALLY ON THE DRAWINGS, ALL CONCRETE REINFORCEMENT SHALL BE LAP-SPLICED AS FOLLOWS:
 

#6 AND SMALLER	48 X BAR DIAMETER
#7 AND LARGER	56 X BAR DIAMETER

NO MORE THAN 50% HORIZONTAL OR VERTICAL BARS SHALL BE SPLICED AT ONE LOCATION
  - 3.6.9. EXCEPT AS NOTED SPECIFICALLY ON THE DRAWINGS, PROVIDE CORNER BARS TO MATCH QUANTITY AND DIAMETER OF HORIZONTAL REINFORCEMENT AND LAP WITH HORIZONTAL REINFORCEMENT AS FOLLOWS:
 

#6 AND SMALLER	48 X BAR DIAMETER
#7 AND LARGER	56 X BAR DIAMETER

THESE CORNER BARS SHALL BE PLACED AT ALL CORNERS AND INTERSECTIONS IN CONCRETE FOOTINGS AND WALLS.
  - 3.6.10. LAP WELDED WIRE FABRIC 12" OR ONE SPACING PLUS 2", WHICHEVER IS MORE.
 

BOTTOM OF FOOTINGS	3"
FORMED EARTH FACE AND SLAB ON GRADE	2"
WALLS, WEATHER FACE	1-1/2"
WALLS, INSIDE FACE	1"
- 3.7. CONCRETE COVER ON REINFORCING SHALL BE AS FOLLOWS (UNLESS SHOWN OTHERWISE):
 

BOTTOM OF FOOTINGS	3"
FORMED EARTH FACE AND SLAB ON GRADE	2"
WALLS, WEATHER FACE	1-1/2"
WALLS, INSIDE FACE	1"
- 3.8. CONSTRUCTION OR CONTROL JOINTS
  - 3.8.1. UNLESS NOTED OTHERWISE, LOCATION OF THE CONSTRUCTION OR CONTROL JOINTS IN SLAB ON GRADE SHALL NOT EXCEED THE DISTANCES NOTED BELOW. JOINTS SHALL BE LOCATED ON COLUMN GRIDS OR UNDER PERMANENT PARTITIONS TO THE GREATEST EXTENT POSSIBLE. ADDITIONAL JOINTS SHALL BE REQUIRED AT RE-ENTRANT CORNERS AND CORNERS OF SLAB DEPRESSIONS OR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR JOINT LAYOUT AT EXPOSED CONCRETE CONDITIONS. PROVIDE JOINT SEALANT PER SPECIFICATIONS - INSTALL PER MANUFACTURER RECOMMENDATIONS.
 

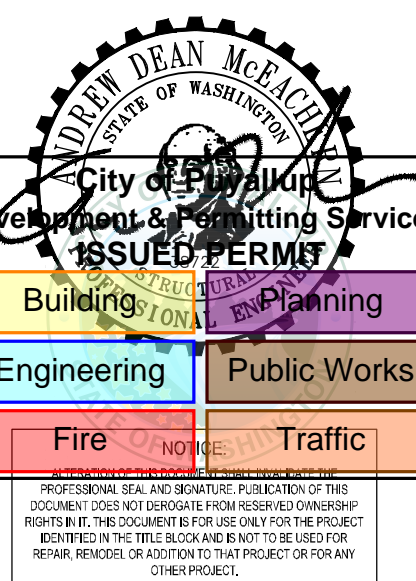
4" SLAB ON GRADE	12'-0" OC
6" SLAB ON GRADE	18'-0" OC
  - 3.8.2. ELECTRICAL CONDUIT SHALL NOT BE PLACED WITHIN A SLAB ON GRADE BUT PLACED BELOW THE SLAB IN THE SUB-BASE.
  - 3.8.3. NO JOISTS, BEAMS OR GIRDS SHALL BE SLEEVED FOR PIPING OR CONDUIT EXCEPT AS NOTED ON THE STRUCTURAL DRAWINGS OR AS APPROVED BY THE ARCHITECT/ENGINEER.
- 3.9. GROUT FOR BEARING PLATES
 

THE NON-SHRINK GROUT SHALL MEET ASTM C1107 GRADE B OR EQUIVALENT (MASTERFLOW 928 BY BASF OR APPROVED EQUIVALENT). GROUT SHALL BE A PRE-PACKAGED HYDRAULIC CEMENT BASED MINERAL AGGREGATE GROUT, MIXED, PLACED AND CURED AS RECOMMENDED BY THE MANUFACTURER. COMPRESSIVE STRENGTH SHALL EXCEED 8000 PSI AT 28 DAYS.
- 3.11. ADHESIVE EXPANSIVE WATERSTOPS
 

ADHESIVE EXPANSIVE WATERSTOP SHALL BE VOLCLAY WATERSTOP-RX (AS MANUFACTURED BY CETCO), SWELLSTOP OR HYDROTIGHT (GREENSTREAK), OR APPROVED EQUIVALENT. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- 3.12. INTEGRAL CONCRETE WATERPROOFING SYSTEM
  - 3.12.1. XYPEX ADMIXTURE C-1000 AT THE RATE OF 2%-3% BY WEIGHT OF CEMENT AS MANUFACTURED BY XYPEX CHEMICAL CORPORATION AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS WHERE INDICATED ON PLAN.

- 3.12.2. PRIOR TO INSTALLATION OF INTEGRAL CONCRETE WATERPROOFING, GENERAL CONTRACTOR SHALL CONDUCT A PRECONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER OF RECORD, OWNER'S REPRESENTATIVE, CONCRETE SUPPLIER, CONCRETE PLACER AND WATERPROOFING SYSTEM MANUFACTURER'S REPRESENTATIVE.
- 3.12.3. THE WATERPROOFING SYSTEM MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE TECHNICAL CONSULTATION ON WATERPROOFING APPLICATION, JOINT SPACING AND LOCATIONS, AND WATERSTOP TYPES AND LOCATIONS.
- 3.12.4. CONCRETE SHALL BE EXAMINED FOR STRUCTURAL DEFECTS SUCH AS HONEYCOMBS, ROCK POCKETS, THE HOLES, FAULTY CONSTRUCTION JOINTS, COLD JOINTS, AND CRACKS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING SUCH DEFECTS IN ACCORDANCE WITH WATERPROOFING SYSTEM MANUFACTURER'S RECOMMENDED REPAIR PROCEDURES.
- 3.12.5. ALTERNATE INTEGRAL CONCRETE WATERPROOFING SYSTEMS MAY BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

architect seal



NOTES CONTINUE ON SHEET S0.2

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



issue / revision date  
11-18-22 DOH REVIEW  
02-09-23 REVIEW COMMENTS

drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
STRUCTURAL NOTES  
project: \_\_\_\_\_ sheet title: \_\_\_\_\_

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Do not scale drawings. Use figured dimensions only

- 5.2.8. BOLTS
- A. MACHINE BOLTS NOT SPECIFIED AS HIGH STRENGTH SHALL BE ASTM A307 GRADE A.
  - B. HIGH STRENGTH BOLTS SHALL BE ASTM F3125 GRADE A325 OR GRADE A490 AS INDICATED ON STRUCTURAL DRAWINGS. ALL BOLTS SHALL BE CONSIDERED BEARING TYPE WITH THREADS INCLUDED IN SHEAR PLANE CONNECTION TYPE (N) UNLESS NOTED OTHERWISE. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE INSTALLED WITH NUTS CONFORMING TO ASTM A563 AND HARDENED WASHERS CONFORMING TO ASTM F436.
  - C. HIGH STRENGTH BOLTS WITH TWIST OFF TYPE TENSION CONTROL MAY BE SUBSTITUTED FOR CONVENTIONAL BOLTS AND SHALL BE ASTM F3125 GRADE F1852 OR GRADE F2280, AND MAY BE USED FOR GRADE A325 OR GRADE A490 RESPECTIVELY.
  - D. FULLY PRE-TENSIONED AND SLIP CRITICAL CONNECTIONS SHALL BE AT LOCATIONS NOTED ON THE STRUCTURAL DRAWINGS.
  - E. AT FULLY PRE-TENSIONED AND SLIP CRITICAL CONNECTIONS WASHER TYPE INDICATING DEVICES (ASTM F959) OR TWIST-OFF TYPE TENSION-CONTROL BOLT ASSEMBLIES (ASTM F3125 GRADE F1852 OR F2280) SHALL BE USED UNLESS ALTERNATE SYSTEMS ARE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.
  - F. ALL HIGH STRENGTH BOLTS SHALL BE INSTALLED PER THE SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS (LATEST EDITION) BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (WWW.BOLT-COUNCIL.ORG).

- 5.2.9. STEEL ANCHORAGE ELEMENTS:
- A. THREADED RODS SHALL BE ALL-THREAD ASTM A36 (F<sub>y</sub>=36 KSI) UNLESS NOTED OTHERWISE.
  - B. WELDED HEADED STUDS, "NELSON STUDS" SHALL BE BY NELSON STUD WELDING, INC. OR APPROVED EQUIVALENT COMPLYING WITH ASTM A108. STUDS SHALL HAVE A MINIMUM F<sub>y</sub> OF 65 KSI.
  - C. ANCHOR RODS: ANCHOR RODS SHALL BE ASTM F1554, F<sub>y</sub>=36 KSI WITH HOOKED, HEADED OR THREADED AND NUTTED ENDS AS INDICATED. AT COLUMN LOCATIONS ANCHOR RODS SHALL BE ASTM F1554, F<sub>y</sub>=36 KSI WITH HEADED OR THREADED/NUTTED END. TACK WELD NUT TO ANCHOR ROD UNLESS NOTED OTHERWISE. WHERE NOTED, HIGH STRENGTH ANCHOR RODS SHALL BE ASTM F1554, F<sub>y</sub>=105 KSI WITH DOUBLE NUTTED PLATE WASHER.
  - D. EXPANSION ANCHORS SHALL BE CARBON STEEL AS NOTED IN THE FOLLOWING TABLE. ANCHORS IN CONCRETE SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 308.2 AND/OR ICC-ES AC108 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. ANCHORS SHALL HAVE A CURRENT CODE REPORT THAT COMPLIES WITH THE CURRENT EDITION OF THE IBC AND SHALL BE RATED FOR USE IN THE SEISMIC DESIGN CATEGORY NOTED IN THE DESIGN CRITERIA SECTION OF THESE NOTES.

EXPANSION ANCHORS IN CONCRETE	CODE REPORT
HILTI KWIK BOLT TZ	ICC ESR-1917
SIMPSON STRONG-BOLT 2	ICC ESR-3037
DEWALT POWER-STUD+ SD2	ICC ESR-2502

- E. HEAVY DUTY CONCRETE/MASONRY SCREW ANCHORS SHALL BE USED IN DRY INTERIOR CONDITIONS AND SHALL BE AS NOTED IN THE FOLLOWING TABLE:

HEAVY DUTY CONCRETE/ MASONRY SCREW ANCHORS	CODE REPORT
HILTI KWIK HUS-EZ	ICC ESR-3027(CONC) ICC ESR-3056 (CMU)
SIMPSON TITEN HD	ICC ESR-2713 (CONC) ICC ESR-1056 (CMU)
DEWALT SCREW BOLT+	ICC ESR-3889 (CONC) ICC ESR-4042 (CMU)

- F. ADHESIVE ANCHORS SHALL BE THREADED ANCHOR RODS OR REBAR DOWELS USING AN INJECTABLE ADHESIVE AS NOTED IN THE FOLLOWING TABLE. ANCHORS IN CONCRETE SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 308.4 AND/OR ICC-ES AC-308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. ANCHORS SHALL HAVE A CURRENT CODE REPORT THAT COMPLIES WITH THE CURRENT EDITION OF THE IBC AND SHALL BE RATED FOR USE IN THE SEISMIC DESIGN CATEGORY NOTED IN THE DESIGN CRITERIA SECTION OF THESE NOTES.

ADHESIVE ANCHORS IN CONCRETE (1) (2)	CODE REPORT
HILTI HIT HY-200 SAFE SET	ICC ESR-3187
SIMPSON AT-XP (3)	IAPMO ER-263
DEWALT AC208+ DUST-X	ICC ESR-4027

(1) ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI, OR AN APPROVED ALTERNATE WHEN SUBMITTED AND APPROVED BY THE ENGINEER. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.

(2) ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS.

(3) SIMPSON SET-XP MAY BE USED WHERE BASE MATERIAL TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT OR FOR EMBEDMENT GREATER THAN 12-INCHES FOR LONGER GEL TIME. SEE ICC ESR-2508 (CONC) AND IAPMO ER-265 (MASONRY).

- G. POWDER ACTUATED FASTENERS: PDF'S OR PAF'S SHALL BE A MINIMUM 0.157" DIA KNURLED SHANK FASTENER AS NOTED IN THE FOLLOWING TABLE. UNLESS NOTED OTHERWISE, FASTENERS DRIVEN INTO STEEL SHALL BE DRIVEN SO THAT THE POINT OF THE FASTENER COMPLETELY PENETRATES THE STEEL BASE MATERIAL. AT TOPPING SLABS, PT SLABS OR SLABS WITH RADIANT HEAT TUBES EMBEDDED WITHIN THE SLAB, LIMIT THE PDF PENETRATION TO 3/4" MAXIMUM AND COORDINATE WITH TENDON/TUBE PLACEMENT AND COVER.

POWDER ACTUATED FASTENERS	CODE REPORT
HILTI X-U	ICC ESR-2269
SIMPSON PDPA	ICC ESR-2138
DEWALT CSI PIN	ICC ESR-2024

- 5.2.10. METAL PROTECTION: ALL STEEL EXPOSED TO WEATHER, MOISTURE, SOIL, OR AS NOTED SHALL BE GALVANIZED PER ASTM A123 OR A153 AS APPLICABLE. ALL OTHER STEEL SURFACES SHALL BE SHOP PRIMED AFTER FABRICATION.

REPAIR ALL DAMAGED AREAS OF GALVANIZED PARTS SUCH AS FIELD WELDS, ETC. APPLY REPAIR COATING THICKNESS GREATER THAN OR EQUAL TO ORIGINAL ZINC COATING THICKNESS.

- 5.2.11. STEEL COLUMNS: ALL VERTICAL LOAD CARRYING MEMBERS HAVE BEEN NOTED AS "COLUMNS" ON THE STRUCTURAL DRAWINGS. THIS NOTATION DOES NOT IDENTIFY THESE MEMBERS AS "POSTS" OR "COLUMNS" AS DEFINED BY THE LATEST OSHA RULES REGARDING COLUMN ANCHORAGE REQUIREMENTS (OSHA 29 CFR PARTS 1926.751 AND 1926.755). THE GENERAL CONTRACTOR, STEEL DETAILER, AND STEEL ERECTOR SHALL BE RESPONSIBLE TO DETERMINE THE CORRECT OSHA DESIGNATION OF EACH MEMBER REGARDLESS OF THE NOTATION SHOWN ON THE STRUCTURAL DRAWINGS.

- 5.2.12. WELDED MARK NUMBERS ON STRUCTURAL STEEL MEMBERS EXPOSED TO VIEW ARE UNACCEPTABLE AND SHALL NOT BE PERMITTED. ANY WELDED MARKS SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. SEE ARCH SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- 5.2.13. PRE-ENGINEERED STEEL STAIRS AND GUARDRAILS: THE STEEL STAIR MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.

5.3. WELDING

- 5.3.1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE," AWS D1.1, AWS D1.4 AND AWS D1.8 AS APPROPRIATE.

- 5.3.2. ALL WELDING SHALL BE BY CERTIFIED WELDERS; USE 70 KSI LOW HYDROGEN FILLER METAL AND SHALL BE PROTECTED PER AWS D1.1 UNTIL USE. FOR ALL FULL PENETRATION WELDS, FILLER METAL SHALL BE NOTCH TOUGH TO MEET CHARPY V-NOTCH OF 20 FOOT-POUND AT -20°F.

- 5.3.3. NO WELDING OF REINFORCING STEEL SHALL BE ALLOWED EXCEPT WHERE SHOWN. ALL WELDING OF REINFORCEMENT SHALL BE PER ANSIAWS D1.4. THE FOLLOWING FILLER METAL SHALL BE USED WHEN WELDING REINFORCEMENT:

- A. FOR WELDING OF ASTM A706 GR 60 REBAR, 80 KSI FILLER METAL.
- B. FOR WELDING OF ASTM A615 GR 60 REBAR, NOT PERMITTED.
- C. FOR WELDING OF ASTM A615 GR 40 REBAR, NOT PERMITTED.

- 5.3.4. ALL FULL PENETRATION FIELD AND SHOP WELDS SHALL BE FULL TIME INSPECTED AND TESTED BY NON-DESTRUCTIVE PROCEDURES. RESULTS OF TESTS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER.

5.4. WELDING PROCEDURE SPECIFICATION (WPS)

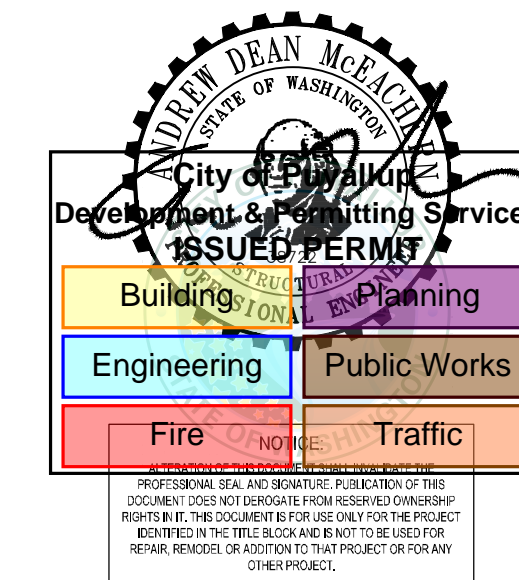
- 5.4.1. FOR ALL WELDING OF REINFORCING STEEL, NON-PREQUALIFIED WELDS AND ALL WELDING OF COMPONENTS WHICH ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM, CONTRACTOR SHALL SUBMIT A WELDING PROCEDURE SPECIFICATION (WPS) TO ENGINEER FOR APPROVAL. PRIOR TO WELDING, EACH WPS SHALL INCLUDE ALL NECESSARY INFORMATION REQUIRED BY AWS D1.1, AWS D1.4 AND AWS D1.8 AND AS FOLLOWS:

- A. APPLICABLE BASE METAL TYPES AND THICKNESSES.
- B. SKETCH OF JOINT INDICATING APPLICABLE DIMENSIONS. INDIVIDUAL PASSES SHALL BE IDENTIFIED AND NUMBERED TO IDENTIFY THE SEQUENCE. THE SKETCH SHALL IDENTIFY THE MAXIMUM THICKNESS AND BEAD WIDTH. IN NO CASE SHALL THE LAYER THICKNESS EXCEED 1/4" NOR THE BEAD WIDTH EXCEED 5/8".
- C. PREHEAT REQUIREMENTS.
- D. ELECTRICAL CHARACTERISTICS (I.E., CURRENT, VOLTAGE, TRAVEL SPEED, ETC.).
- E. ELECTRODE REQUIREMENTS SHALL MEET THE REQUIREMENTS OF AWS A5.1, AWS A5.5, AWS A5.17, AWS A5.23, AWS A5.18, AWS A5.20, AWS A5.28, AND AWS A5.29, AS APPLICABLE FOR WELDING METHOD USED.

KEY TO ABBREVIATIONS

AB	ANCHOR BOLT	L	ANGLE
ABV	ABOVE	LLH	LONG LEG HORIZONTAL
ADDL	ADDITIONAL	LLV	LONG LEG VERTICAL
ADJ	ADJACENT	LOC	LOCATION
AFF	ABOVE FINISH FLOOR	LONGIT	LONGITUDINAL
ALT	ALTERNATE	MAX	MAXIMUM
ARCH	ARCHITECTURAL ARCHITECT	MB	MACHINE BOLT
ASD	ALLOWABLE STRESS DESIGN	MECH	MECHANICAL
BEL	BELOW	MFR	MANUFACTURER
BLKG	BLOCKING	MIN	MINIMUM
BM	BEAM	M/W	MALLEABLE IRON WASHER
BNDY	BOUNDARY	NS	NEAR SIDE
BOT	BOTTOM	NTS	NOT TO SCALE
BRG	BEARING	NWT	NORMAL WEIGHT
BS	BOTH SIDES	O/	OVER
BWIN	BETWEEN	OC	ON CENTER
BU	BUILT UP	O.F.	OUTSIDE FACE
CIP	CAST IN PLACE	OPP	OPOSITE HAND
CJ	CONSTRUCTION/CONTROL JOINT	OPNG	OPENING
CL	CENTERLINE	OSB	ORIENTED STRAND BOARD
CLG	CEILING	PRE-CAST	PRE-CAST
CLR	CLEAR	PDF	POWER DRIVEN FASTENERS, PAF
CMU	CONCRETE MASONRY UNIT	PAF	POWER ACTUATED FASTENERS, PAF
COL	COLUMN	PERP	PERPENDICULAR
CONC	CONCRETE	PLATE	PLATE
CONN	CONNECT, CONNECTION	PLF	POUNDS PER LINEAR FOOT
CONT	CONTINUOUS	PNL	PANEL
COORD	COORDINATE	PRE-ENGR	PRE-ENGINEERED
CSK	COUNTERSINK	PROVD	PROVIDE
CTR	CENTER	PT	POST TENSIONED
CVR	COVER	P/W	PLYWOOD
DEG	DEGREE	REF	REFERENCE
DIA	DIAMETER	RENF	REINFORCE, REINFORCEMENT
DBL	DOUBLE	REQD	REQUIRED
EA	EACH	RF	ROOF
EF	EACH FACE	SCHED	SCHEDULE
ELEV	ELEVATION, ELEVATOR	SFRS	SEISMIC FORCE RESISTING SYSTEM
EMB	EMBEDMENT	SHTG	SHEATHING
ENGR	ENGINEER	SIMR	SIMILAR
EQ	EQUAL/EQUIVALENT	SIMP	SIMPSON STRONG-TIE
EQUIV	EQUIVALENT	SOG	SLAB ON GRADE
ES	EACH SIDE	SPCG	SPACING
EW	EACH WAY	SQ	SQUARE
EX	EXISTING	STD	STANDARD
EXP	EXPANSION	STIFF	STIFFENER
EXT	EXTERIOR	SW	SHEARWALL
FDN	FOUNDATION	T&G	TONGUE AND GROOVE
FF	FINISH FLOOR	THK	THICK
FFE	FINISH FLOOR ELEVATION	THRD	THREADED
FOC	FACE OF CONCRETE	T.O.	TOP OF
FOM	FACE OF MASONRY	TOC	TOP OF CONCRETE
FOS	FACE OF STUD	TOP	TOP OF FOOTING
FS	FAR SIDE	TOPL	TOP OF PLATE
FTG	FOOTING	TOS	TOP OF STEEL
GA	GAGE	T.O.W.	TOP OF WALL
GALV	GALVANIZED	TRANSV	TRANSVERSE
GC	GENERAL CONTRACTOR	TRTD	TREATED
GL	GLUE LAMINATED	TYP	TYPICAL
GWB	GYPNUM WALL BOARD	UNO	UNLESS NOTED OTHERWISE
HGR	HANGER	VFY	VERIFY
HORIZ	HORIZONTAL	VERT	VERTICAL
HSS	HOLLOW STEEL SECTION	W/	WITH
HT	HEIGHT	W/O	WITHOUT
I.F.	INSIDE FACE	WF	WIDE FLANGE
INT	INTERIOR	WHS	WELDED HEADED STUD
JNT	JOINT	WP	WORK POINT
JOST	JOIST	WTS	WELDED THREADED STUD
K, KIPS	KIPS=1000 LBS	WWF	WELDED WIRE FABRIC

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Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

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issue / revision date  
11-18-22 DOH REVIEW  
02-09-23 REVIEW COMMENTS

drawn by checked by

project: sheet title:

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
STRUCTURAL NOTES



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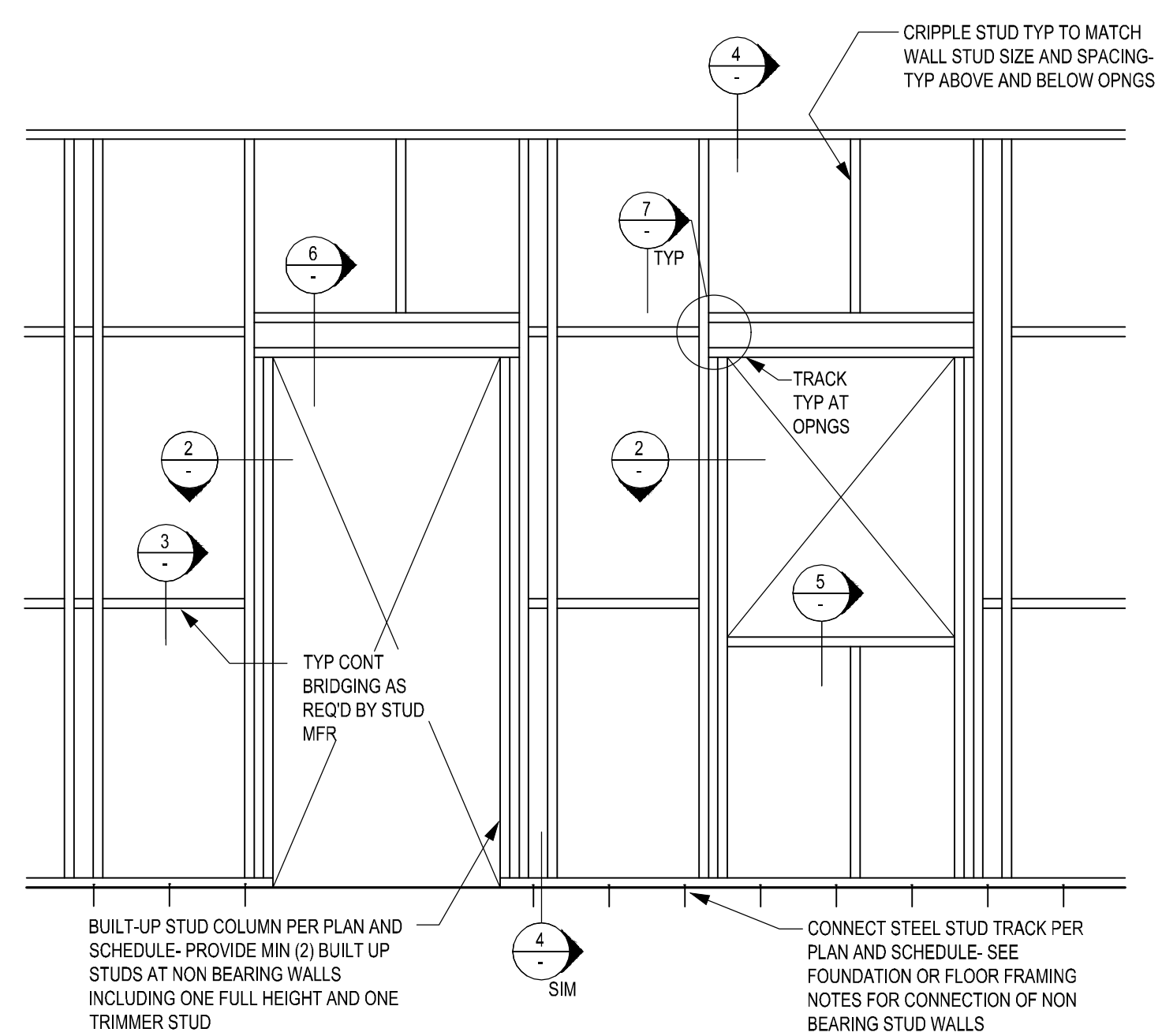
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job number sheet number  
22006 \$0.2

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TYPICAL STEEL STUD WALL FRAMING ELEVATION

SECTION

1" = 1'-0"

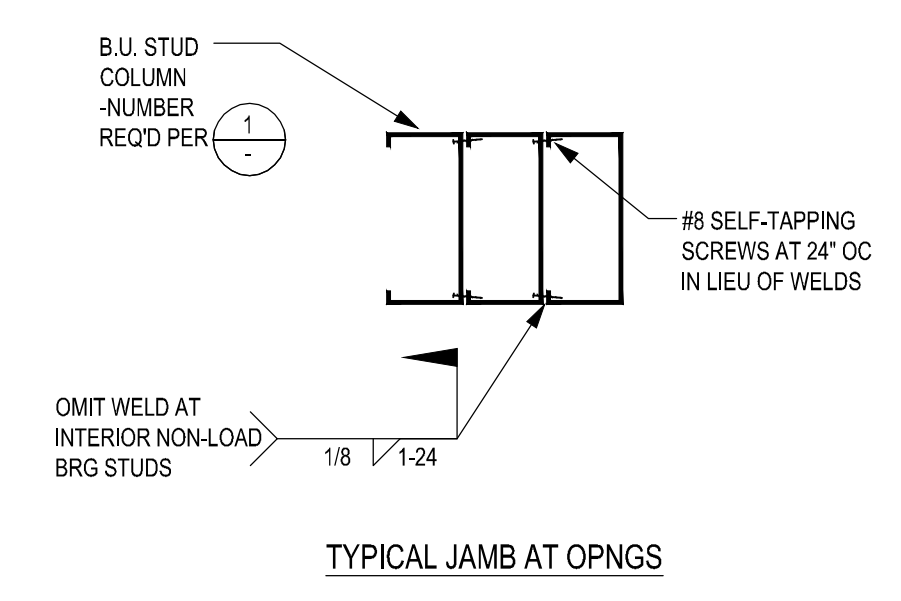
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INTERIOR NON-BEARING COLD-FORMED STEEL STUD WALL SCHEDULE

STUD SIZE	SPACING	MAX ALLOWABLE STUD HEIGHT
COMPOSITE WALLS		
350 S 125 - 18	24" OC	12'-11"
	16" OC	14'-10"
400 S 125 - 18	24" OC	13'-8"
	16" OC	15'-11"
600 S 125 - 30	24" OC	21'-6"
	16" OC	24'-7"
NON-COMPOSITE WALLS		
350 S 125 - 30	24" OC	13'-1"
	16" OC	15'-1"
400 S 125 - 30	24" OC	14'-1"
	16" OC	16'-9"
600 S 125 - 30	24" OC	18'-10"
	16" OC	23'-0"

- NOTES:
- ALLOWABLE STUD HEIGHTS BASED ON 5 PSF MINIMUM HORIZONTAL LIVE LOAD WITH L/240 DEFLECTION LIMIT.
  - COMPOSITE WALLS SHALL BE SHEATHED FULL HEIGHT EACH SIDE WITH 5/8" GWB INSTALLED IN THE VERTICAL ORIENTATION AND ATTACHED USING MINIMUM #8 SCREWS SPACED AT 12" OC FOR STUDS AT 24" OC, AND 16" OC FOR STUDS AT 16" AND 12" OC.
  - PROVIDE BRIDGING AT 48" OC VERT MAX AT ALL NON-COMPOSITE STUD WALLS. SEE TYPICAL BRIDGING DETAIL.
  - SEE ARCH DRAWINGS (PLANS AND WALL TYPES) FOR STUD WALL SIZES.

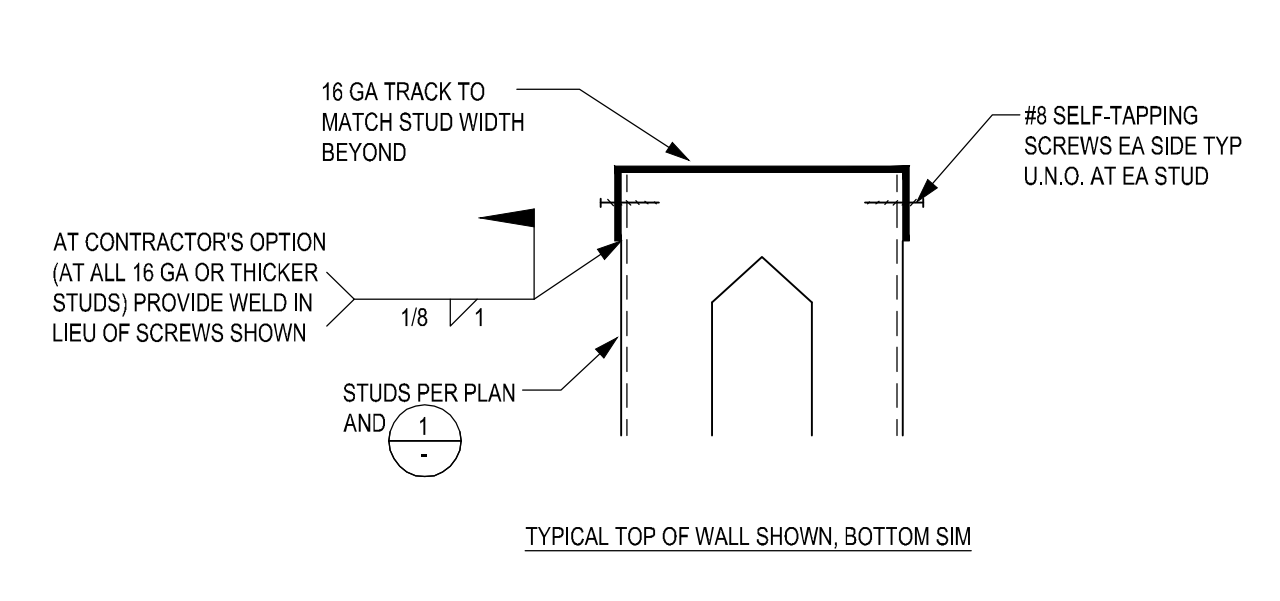
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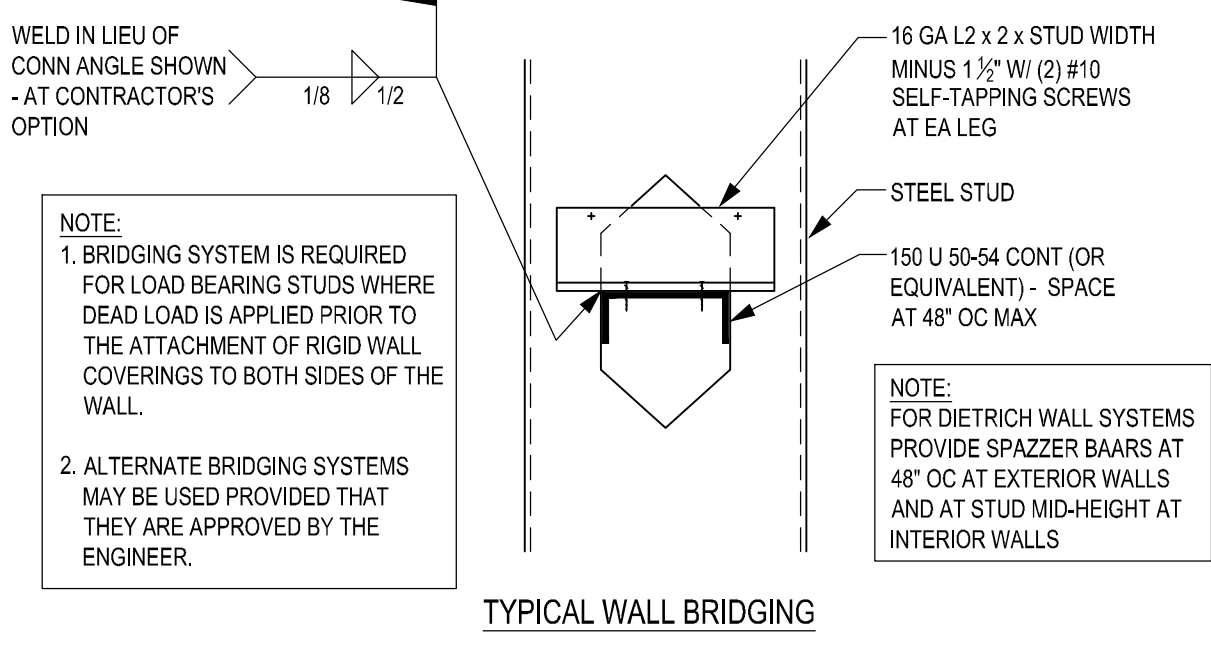
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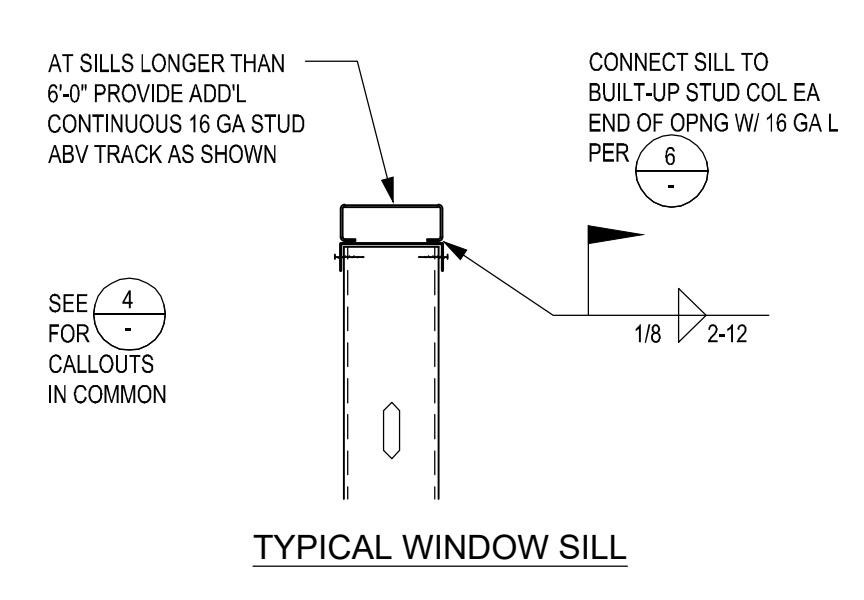
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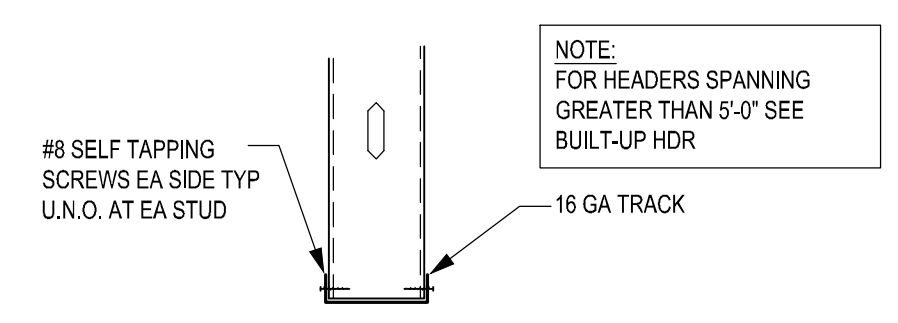
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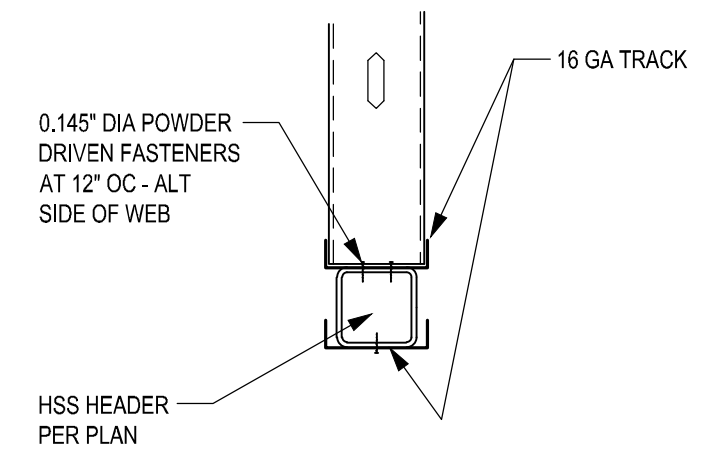
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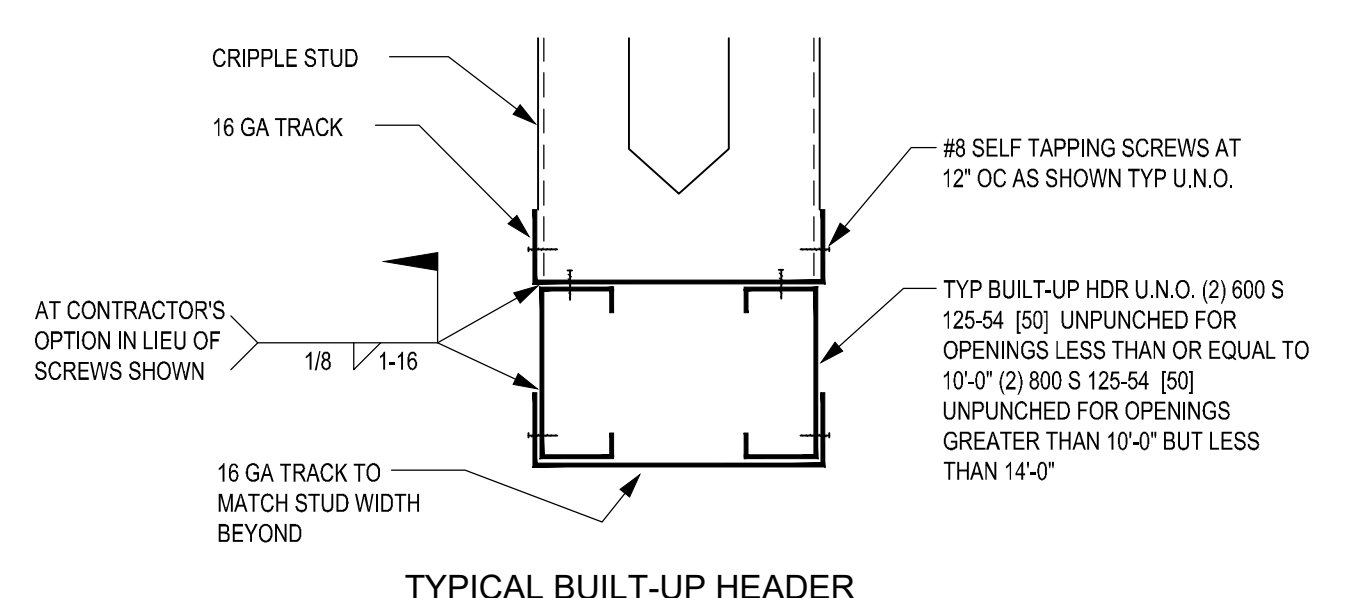
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TYPICAL INTERIOR NON-LOAD BEARING HEADER (5'-0" OR LESS)



TYPICAL HSS HEADER

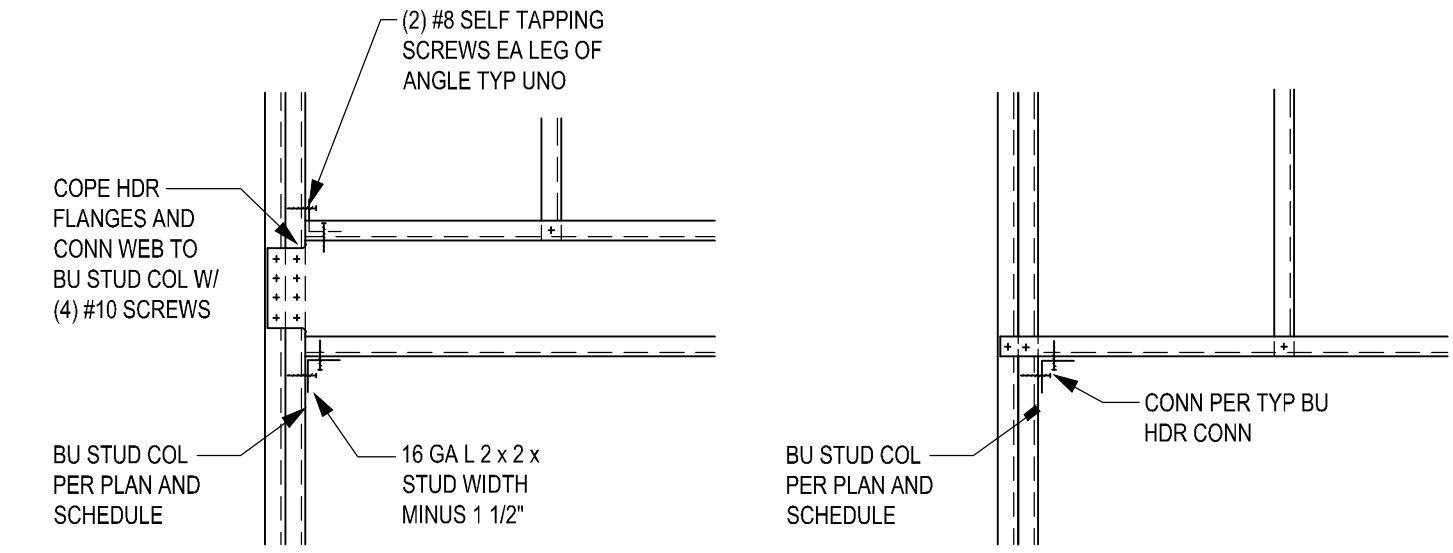


TYPICAL BUILT-UP HEADER

SECTION

1" = 1'-0"

6

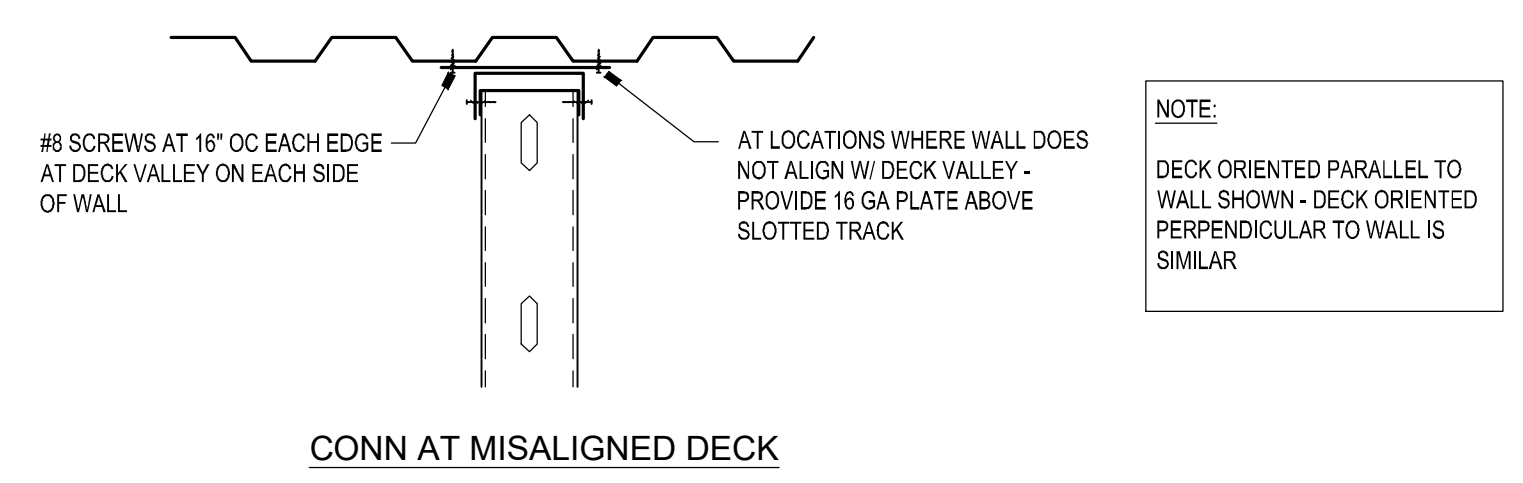


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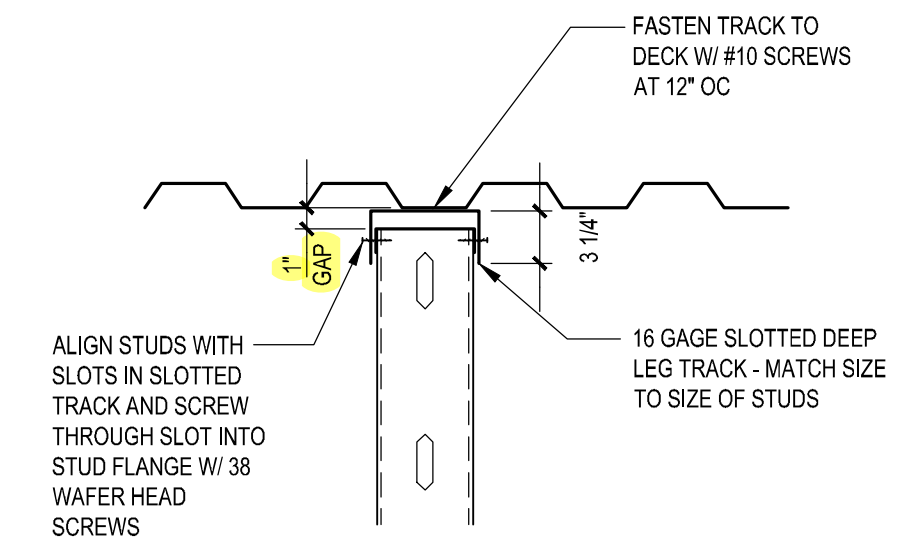
SECTION

1" = 1'-0"

7



CONN AT MISALIGNED DECK



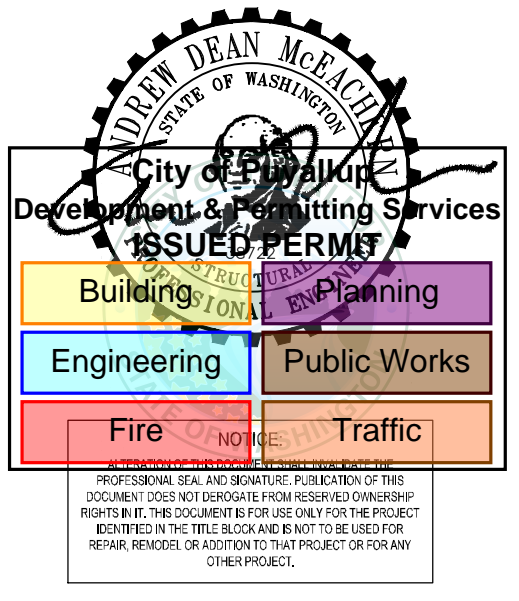
TYPICAL CONN TO ROOF DECK

SECTION

1" = 1'-0"

8

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issue / revision date  
11-18-22 DOH REVIEW  
02-09-23 REVIEW COMMENTS

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project: sheet title:

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
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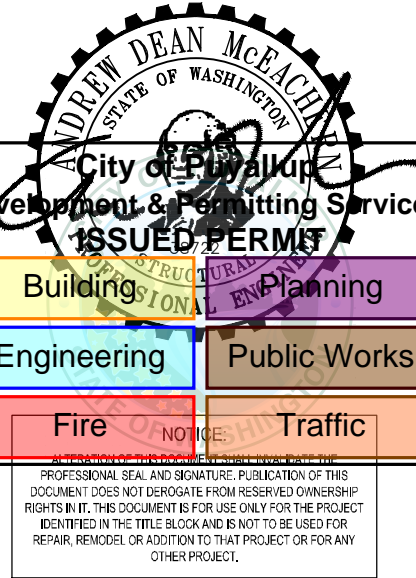
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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

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 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373  
 TYPICAL DETAILS

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

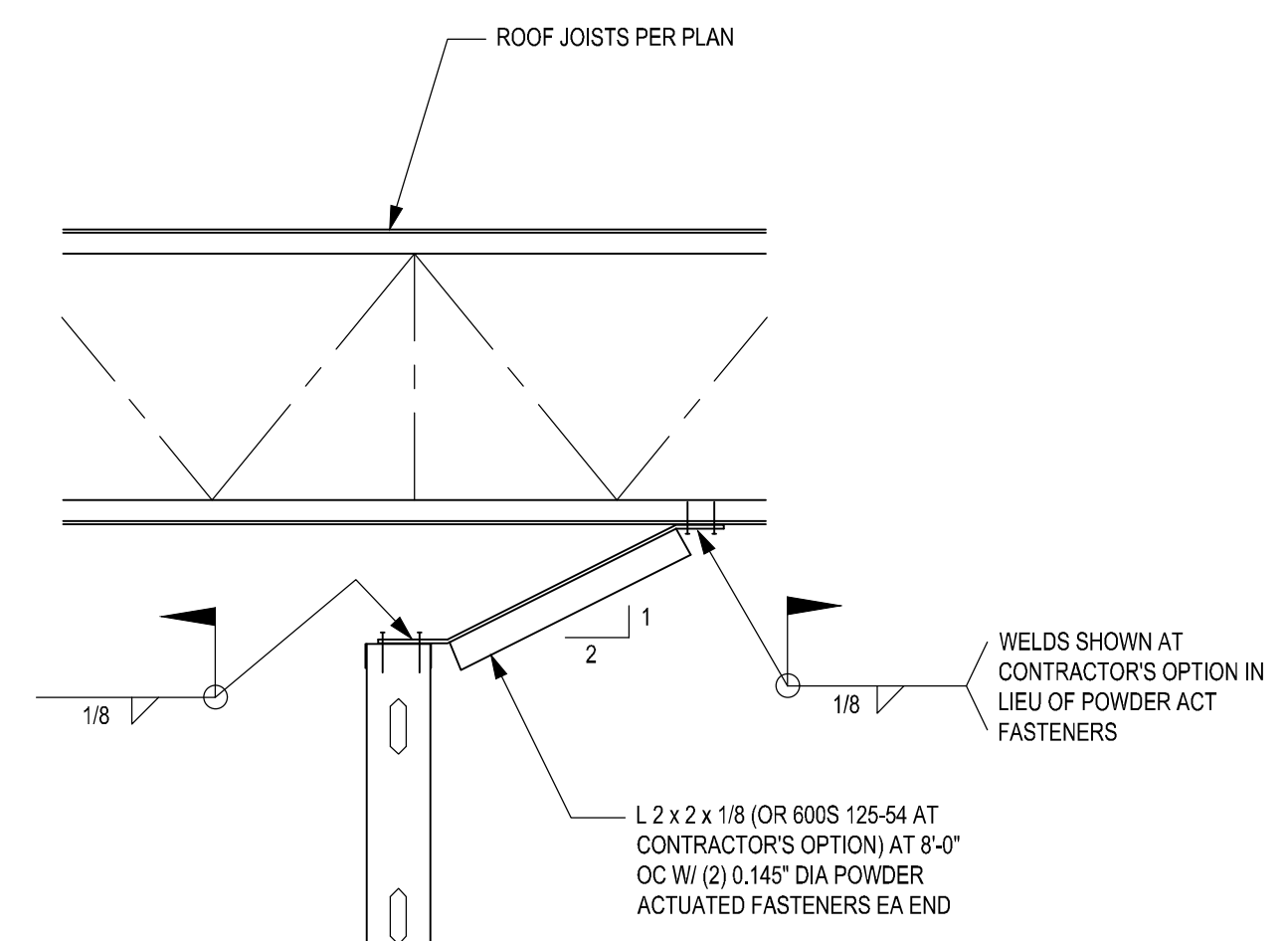
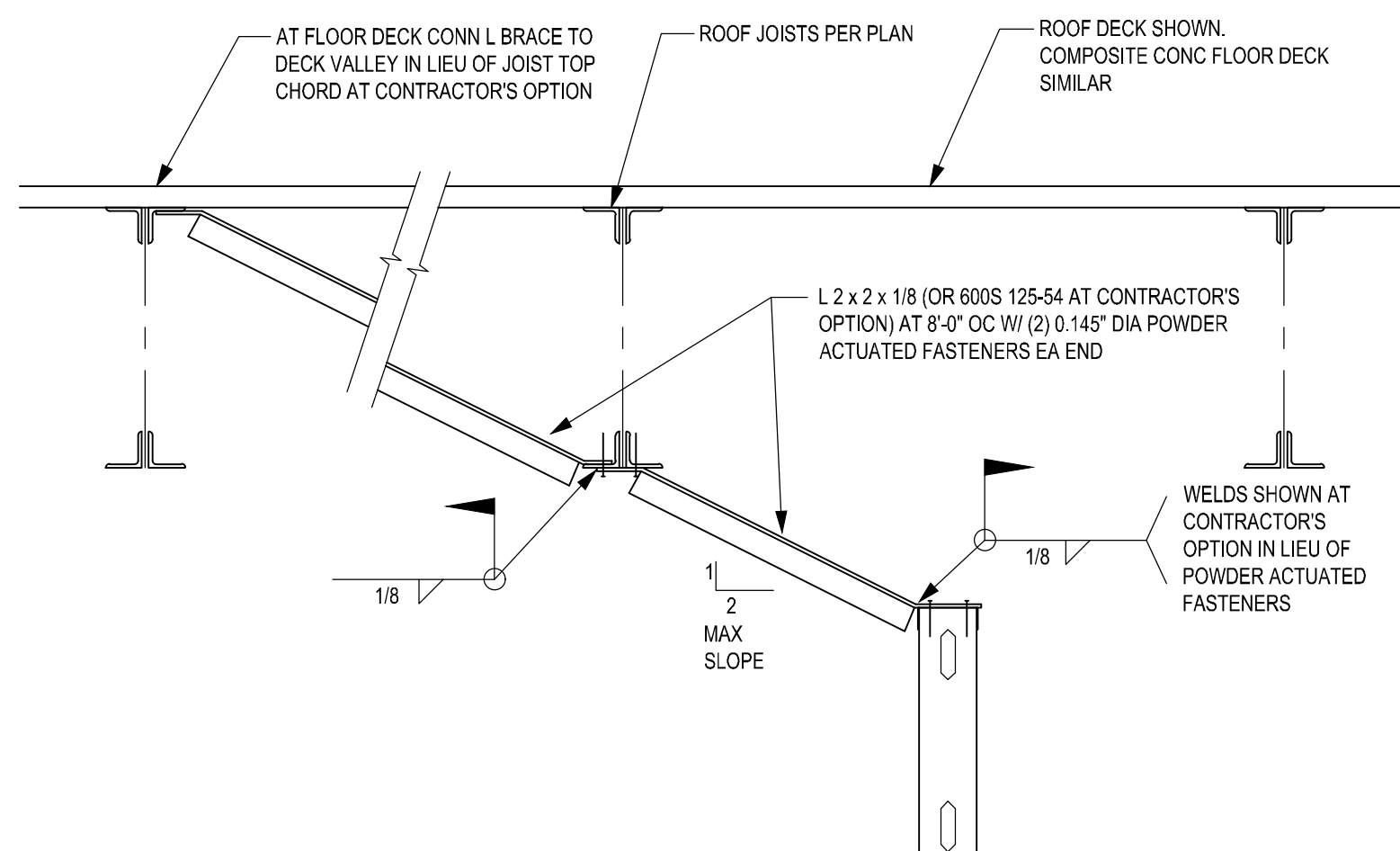
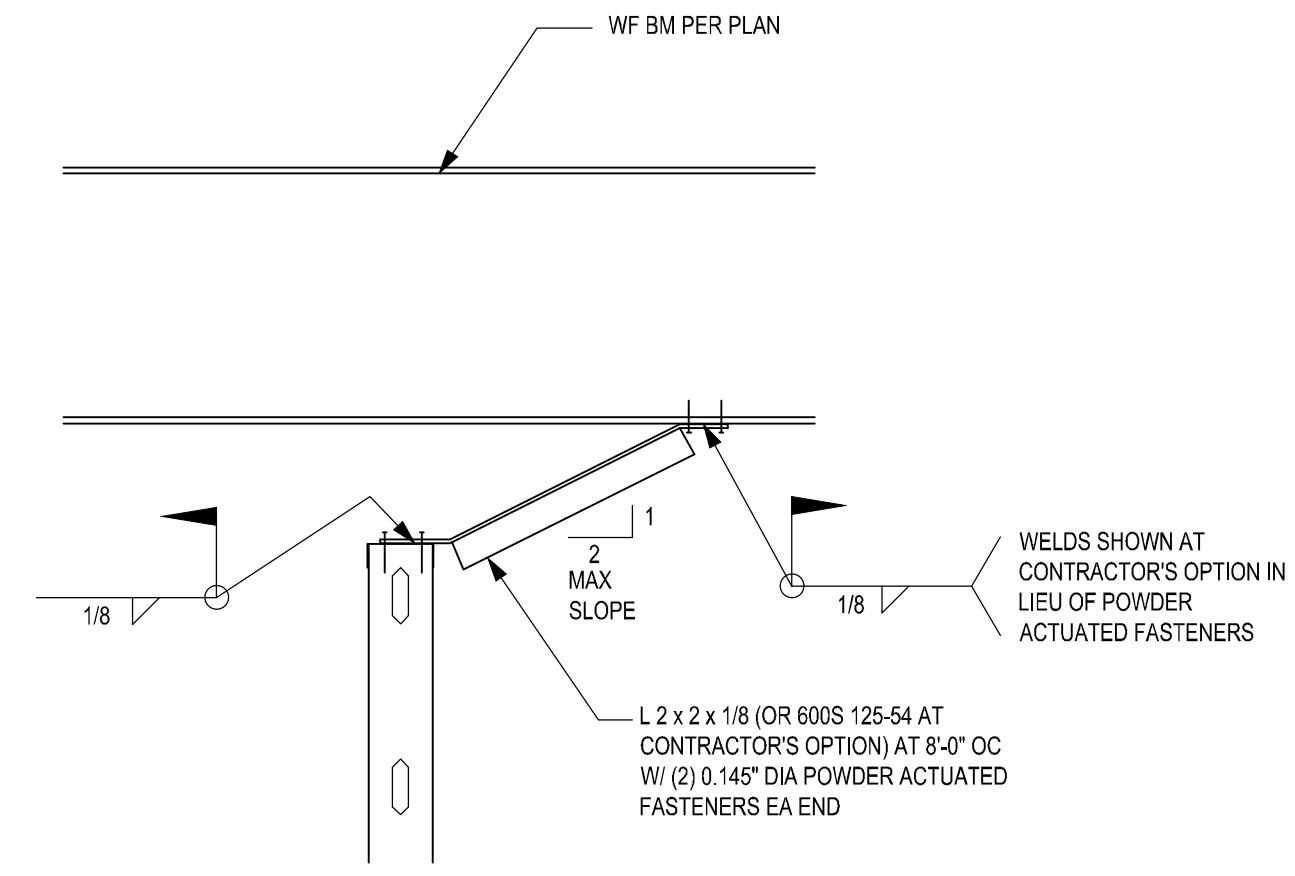
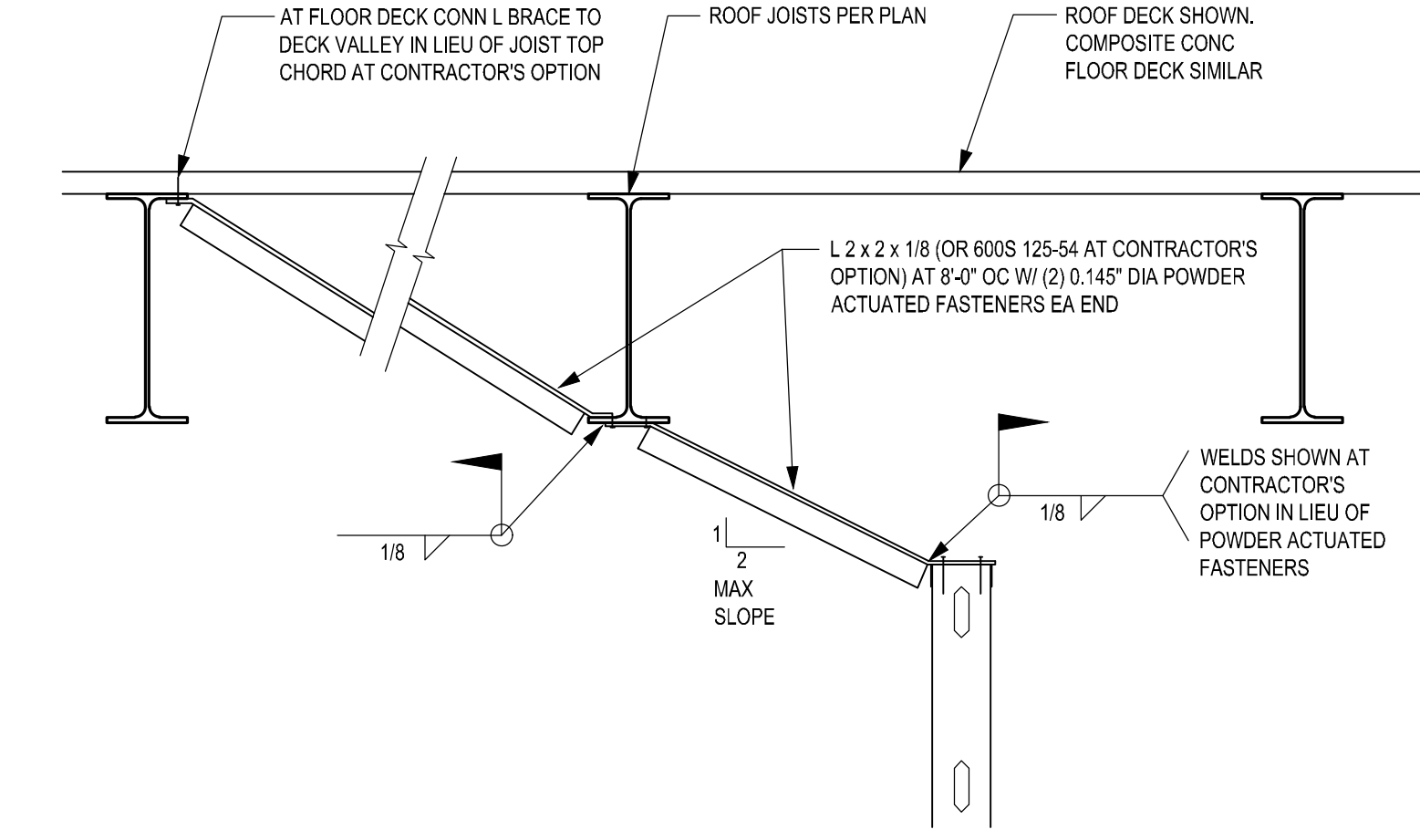
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CONDITION WALL PARALLEL TO JOISTS

CONDITION WALL PERPENDICULAR TO JOISTS

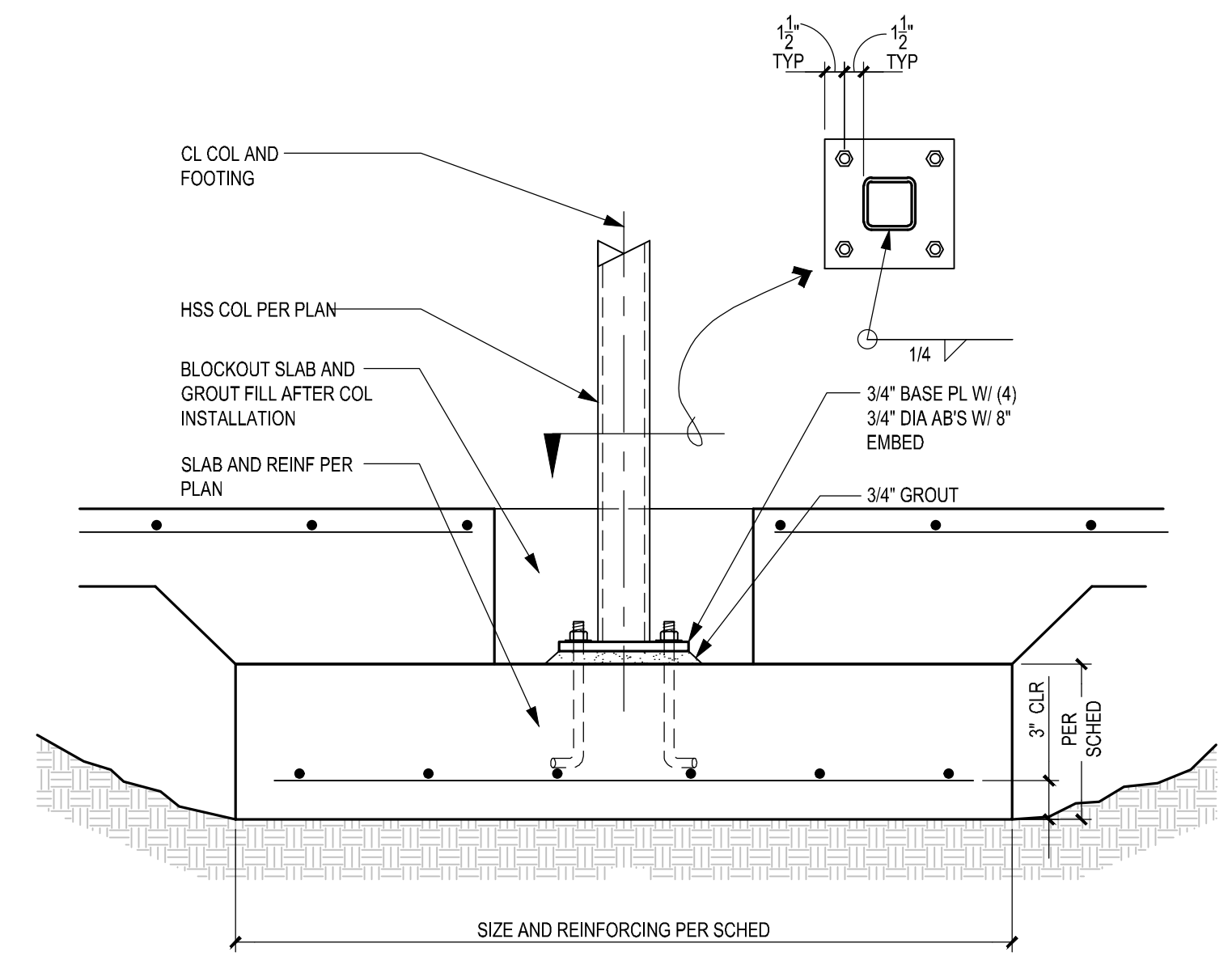
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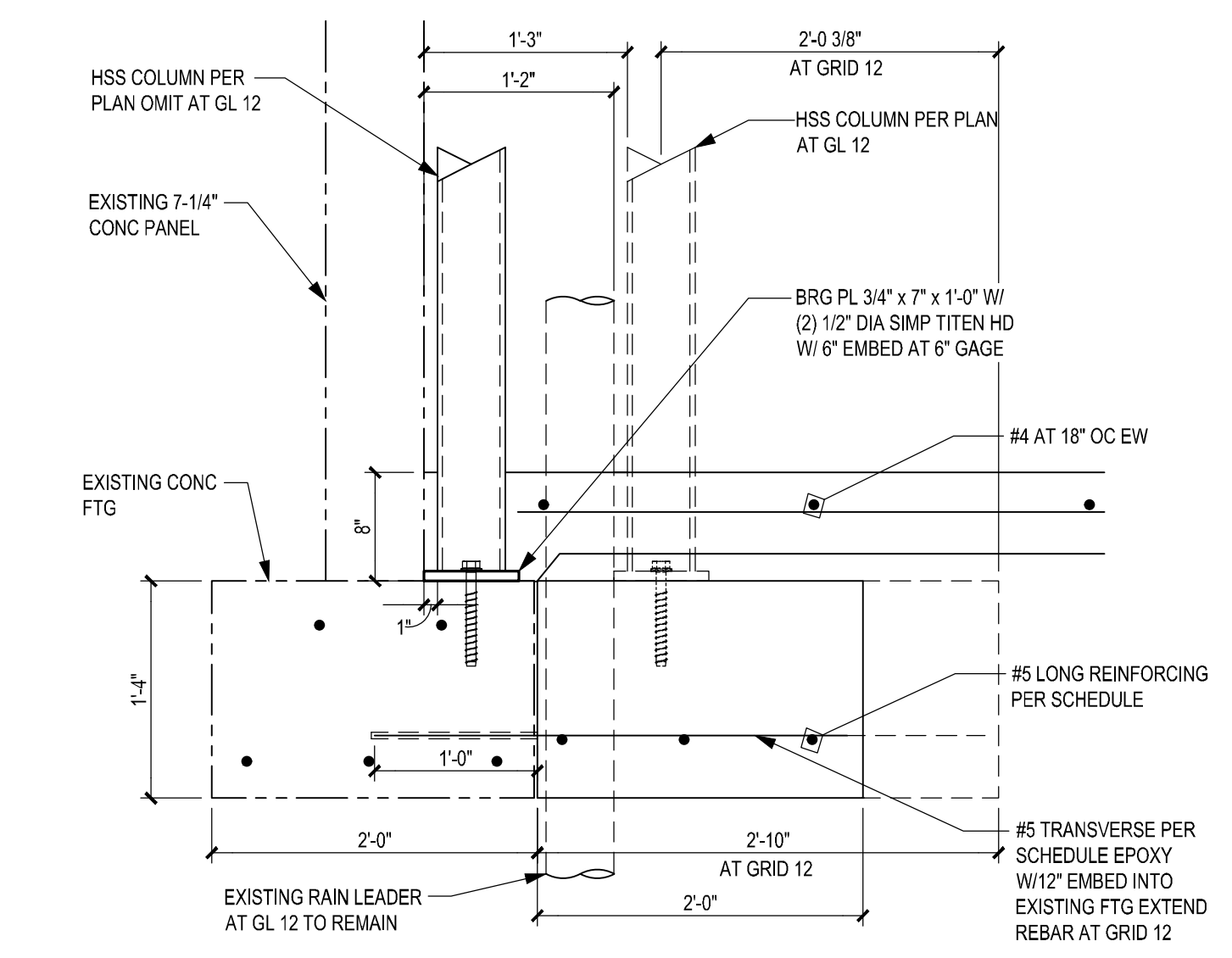
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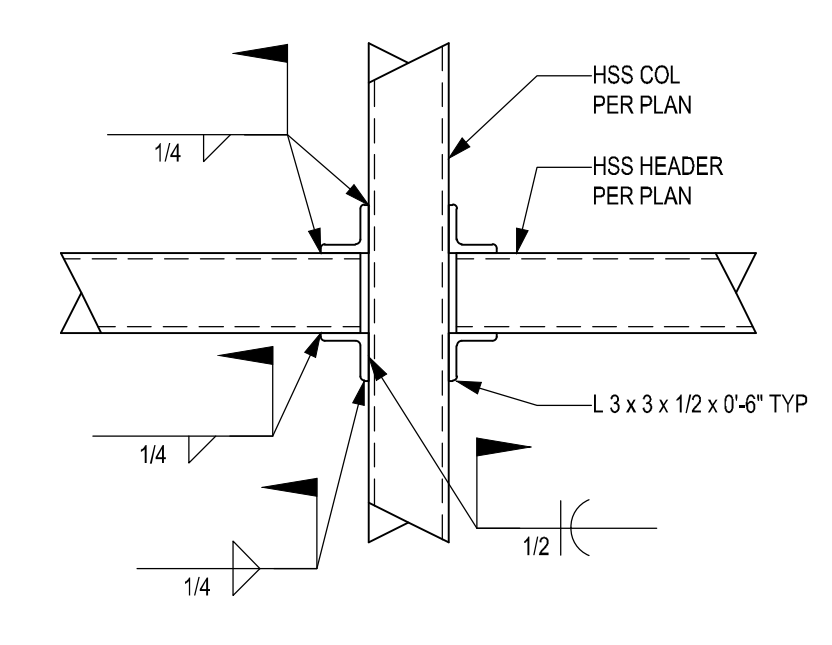




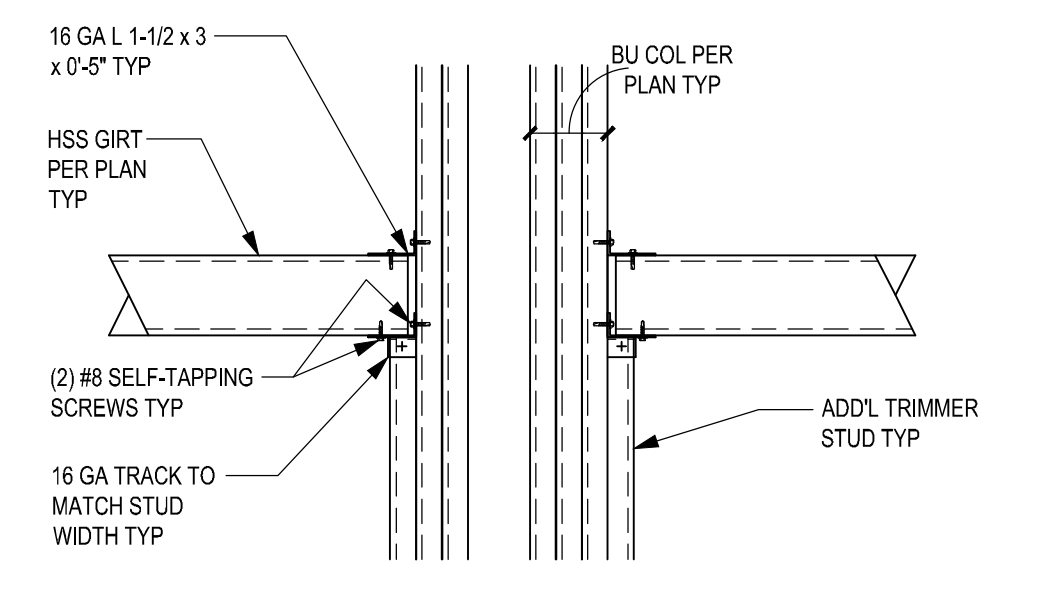
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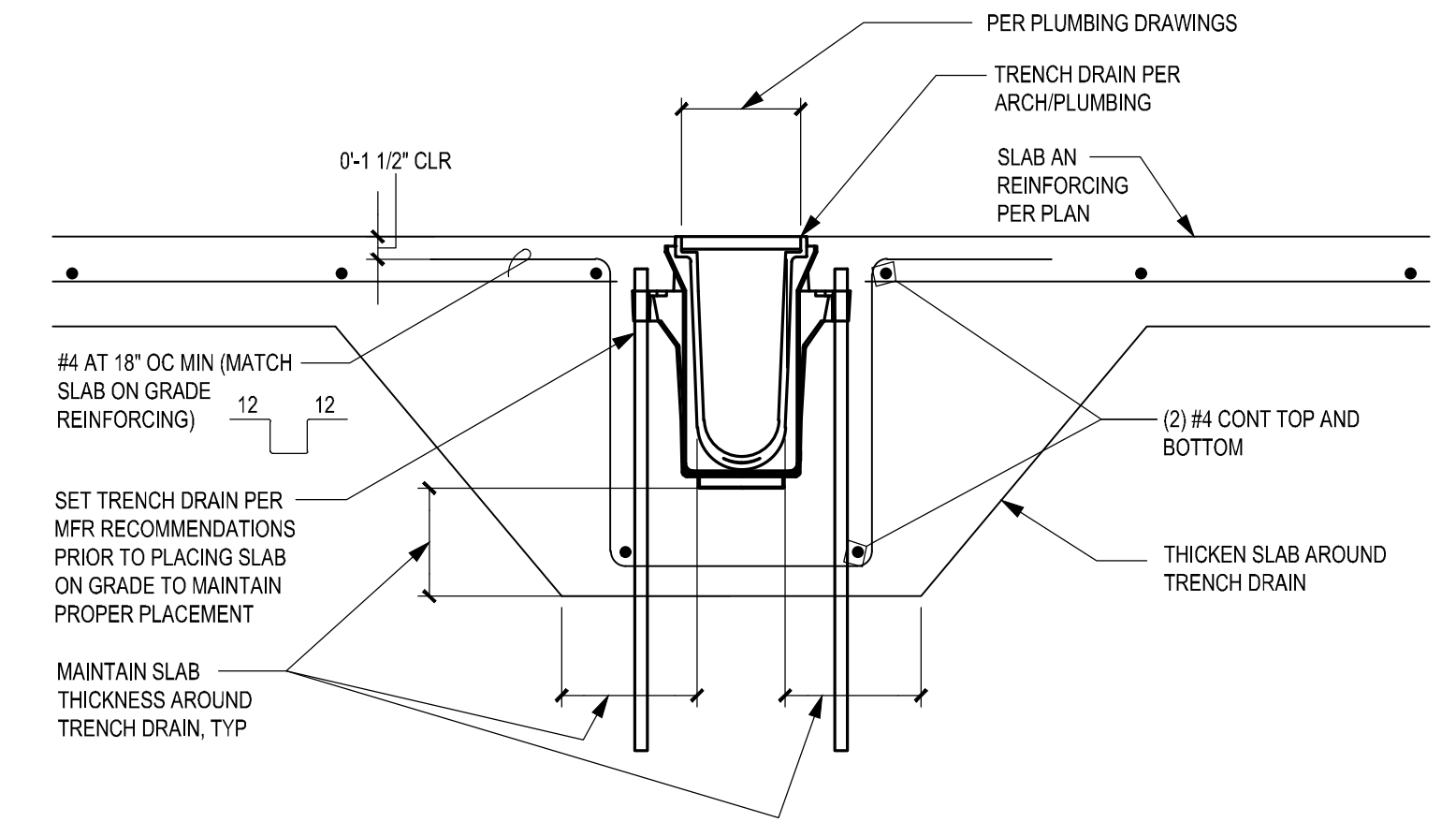
**SECTION 2**  
1" = 1'-0"



**SECTION 3**  
1" = 1'-0"

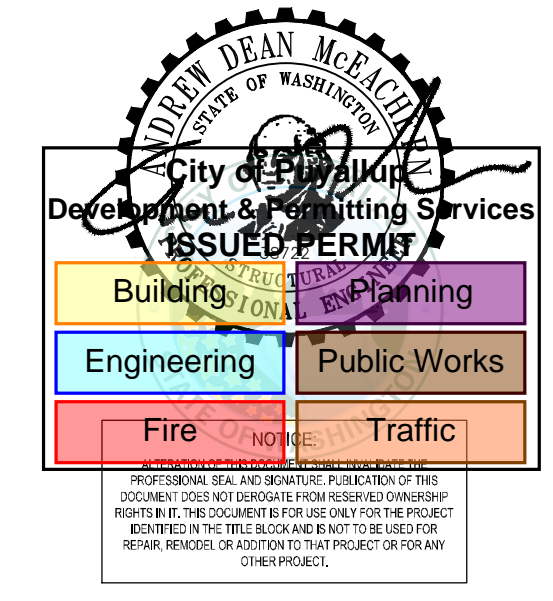


**SECTION 4**  
1" = 1'-0"



**SECTION 5**  
1" = 1'-0"

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11-18-22 DOH REVIEW  
02-09-23 REVIEW COMMENTS

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South Hill Mall - Unit 900-30  
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**FOUNDATION DETAILS**



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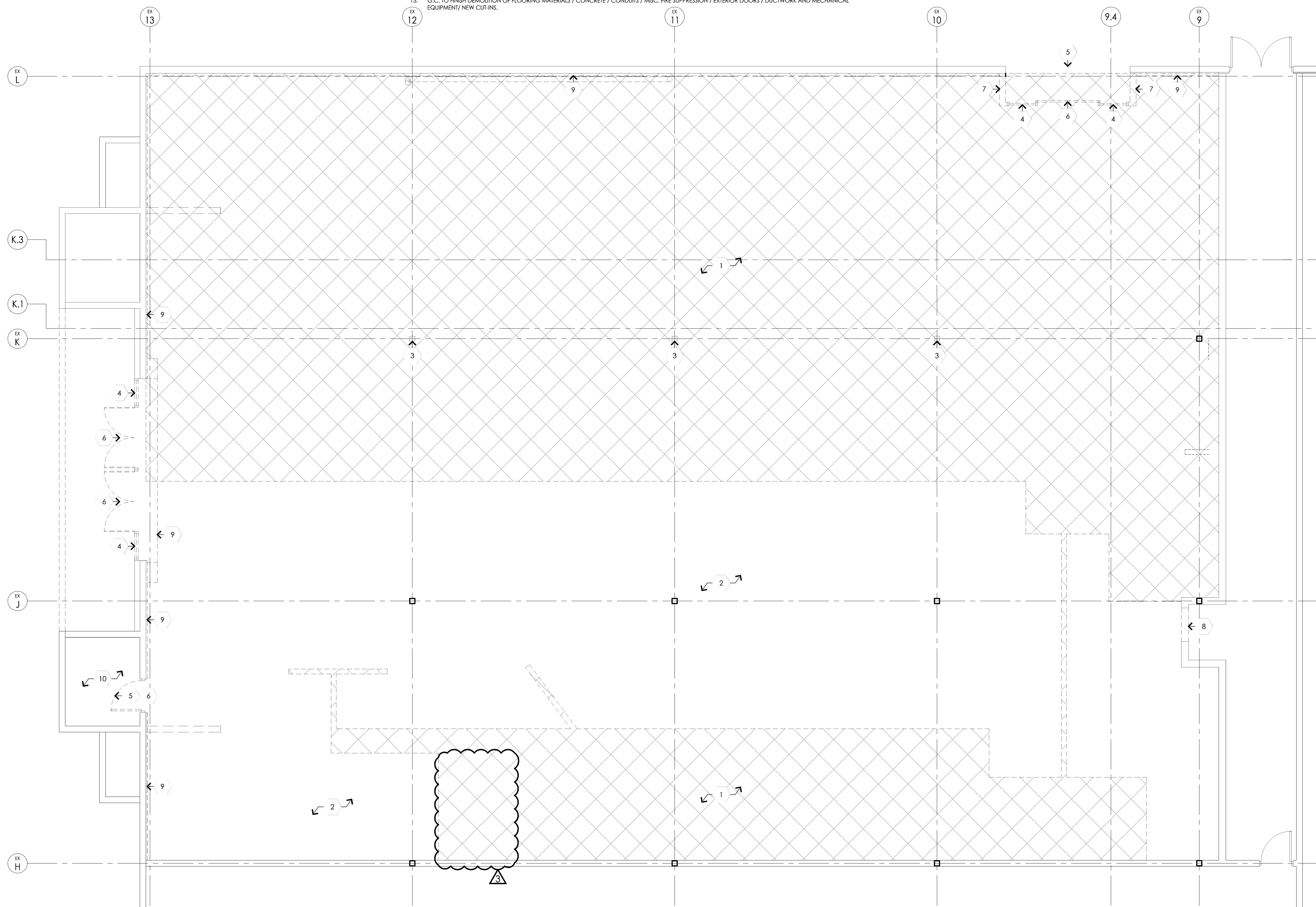


**General Demolition Plan Notes:**

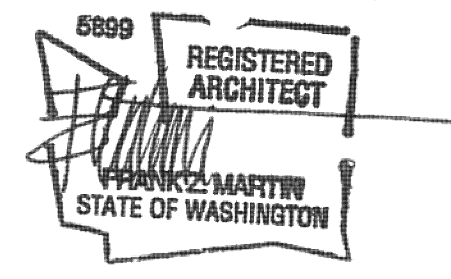
- REFER TO ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR RELATED AND/OR ADDITIONAL DEMOLITION WORK. THE EXTENT OF ALL MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION IS NOT INDICATED ON THIS PLAN.
- THE OWNER HAS FIRST SALVAGEABLE RIGHTS TO ALL ITEMS AND EQUIPMENT THAT ARE BEING DEMOLISHED. THIS INCLUDES ANY ITEMS CALLED OUT ON STRUCTURAL AND ELECTRICAL DRAWINGS. THE DEMOLITION CONTRACTOR SHALL VERIFY WITH THE OWNER WHICH ITEMS THEY WISH TO KEEP PRIOR TO THE COMMENCEMENT TO ANY DEMOLITION WORK. THESE SALVAGED ITEMS ARE TO BE REMOVED IN GOOD CONDITION AND TURNED OVER TO THE OWNER.
- CARE IS TO BE GIVEN TO ALL EXISTING FIXTURES, FURNISHINGS, AND MATERIALS TO PREVENT DAMAGE DURING ALL STAGES OF DEMOLITION AND NEW CONSTRUCTION.
- PROVIDE FOR ALL DEBRIS REMOVAL AND NECESSARY CLEAN UP.
- ALL EXISTING SURFACES AFFECTED/DAMAGED BY DEMOLITION ARE TO BE PATCHED, REPAIRED OR REPLACED AND FINISHED TO MATCH EXISTING ADJACENT CONSTRUCTION. MATERIALS AND FINISHES AS REQUIRED.
- ALL ROOF REPAIRS ARE TO BE PERFORMED BY A QUALIFIED ROOFING CONTRACTOR (APPROVED BY THE LANDLORD) AND/OR VERIFY ROOFING MANUFACTURERS WARRANTIES PRIOR TO ANY WORK. G.C. IS TO COORDINATE WORK AS REQUIRED. FLASH AND SEAL ALL ROOF PENETRATIONS TO MAINTAIN ROOF WARRANTY WHERE APPLICABLE.
- ALL BUILDING MATERIALS DEMOLISHED ARE TO BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE AND EXCLUDING THOSE ITEMS SALVAGED BY THE OWNER.
- ALL UNEVEN OR DAMAGED FLOOR OR WALL SURFACES REVEALED DUE TO OR CAUSED BY DEMOLITION ARE TO BE PATCHED TO PROVIDE AN EVEN SURFACE FOR NEW CONSTRUCTION OF UNIFORM FINISH.
- REMOVE ALL EXISTING OVERHEAD EQUIPMENT, FIXTURES, CEILING, MECHANICAL EQUIPMENT, PIPING, CONDUIT, AND ELECTRICAL EQUIPMENT. THE INTENT IS TO LEAVE A CLEAN UNOBSTRUCTED ROOF DECK AND STRUCTURE ABOVE.
- ALL EXISTING OVERHEAD SPRINKLER PIPING, AND SPRINKLER HEADS TO REMAIN, OR AS DIRECTED BY FIRE SPRINKLER DESIGNER, TO BE VERIFIED BY G.C.
- INSTALL TEMPORARY LIGHTING AS REQUIRED FOR WORK.
- ALL STRUCTURAL AND ARCHITECTURAL DEMOLITION TO BE COORDINATED WITH THE G.C. CONTACT THE ARCHITECT IF THERE ARE DISCREPANCIES.
- UPON COMPLETION OF DEMOLITION, G.C. IS TO VERIFY OVERALL BUILDING MEASUREMENTS AND TO REPORT ANY DISCREPANCIES TO ARCHITECT.
- G.C. TO FINISH DEMOLITION OF FLOORING MATERIALS / CONCRETE / CONDUITS / MISC. FIRE SUPPRESSION / EXTERIOR DOORS / DUCTWORK AND MECHANICAL EQUIPMENT/ NEW CUT-INS.

**Keyed Demo Plan Notes:**

- SAW CUT AND DEMO THE EXISTING FLOOR SLAB AS SHOWN (HATCHED) FOR THE POOL AND NEW UNDERGROUND PLUMBING. THE INTENT IS TO CONCEAL THE FLOOR CUTS BENEATH NEW FRAMING IF POSSIBLE. SEE FLOOR PLAN ON SHEET A.100 FOR COORDINATION / INSTALLATION. GC TO DETERMINE EXACT LOCATION OF SANITARY LINES PRIOR TO SAW CUTTING.
- PREP EXISTING CONCRETE SLAB FOR NEW FINISHES (SEE FINISH SCHEDULE) - SLAB IS TO BE FLAT AND FREE OF DEFECT. GRIND DOWN / PROVIDE SKIM COAT IF REQUIRED.
- EXISTING COLUMN TO BE REMOVED.
- REMOVE EXISTING STOREFRONT GLAZING.
- INFILL EXISTING OPENING - MATCH ADJACENT MATERIALS/FINISHES.
- REMOVE EXISTING DOOR AND FRAME.
- REMOVE EXISTING WALL CONSTRUCTION.
- CUT DOOR OPENING TO FIT NEW DOOR AND FRAME.
- REMOVE EXISTING GYPSUM BOARD, STUDS, FURRING, AND INSULATION DOWN TO CONCRETE PANEL.
- LANDLORD TO REMOVE EXISTING ELECTRICAL PANELS - SEE ELECTRICAL DRAWINGS FOR NEW LOCATION.
- ALL EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS NOT REQUIRED OR INCLUDED ON NEW WORK PLAN TO BE REMOVED. REMOVE ANY MISCELLANEOUS ITEMS OR DEBRIS SUSPENDED FROM EXISTING CEILING STRUCTURE. PREP FOR NEW CEILING FINISH [SEE REFLECTED CEILING PLAN AND FINISH SCHEDULE].



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issue / revision date
10-07-22 Staggered Review
11-07-22 Preliminary Budget Review
11-18-22 DOH Review
11-21-22 Building Permit Review
12-01-22 Revised Permit
12-09-22 Addendum #1
01-11-23 Owner Revision
<b>3</b> 02-09-23 City Review Comments
02-09-23 DOH Review Comments
02-09-23 Elect. Review Comments

drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373

Demolition Plan

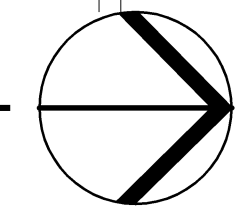
project: \_\_\_\_\_ sheet title: \_\_\_\_\_

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job number 22006 sheet number D.100

**PRCTI20221793**

**Demolition Plan**  
 3/16" = 1'-0"

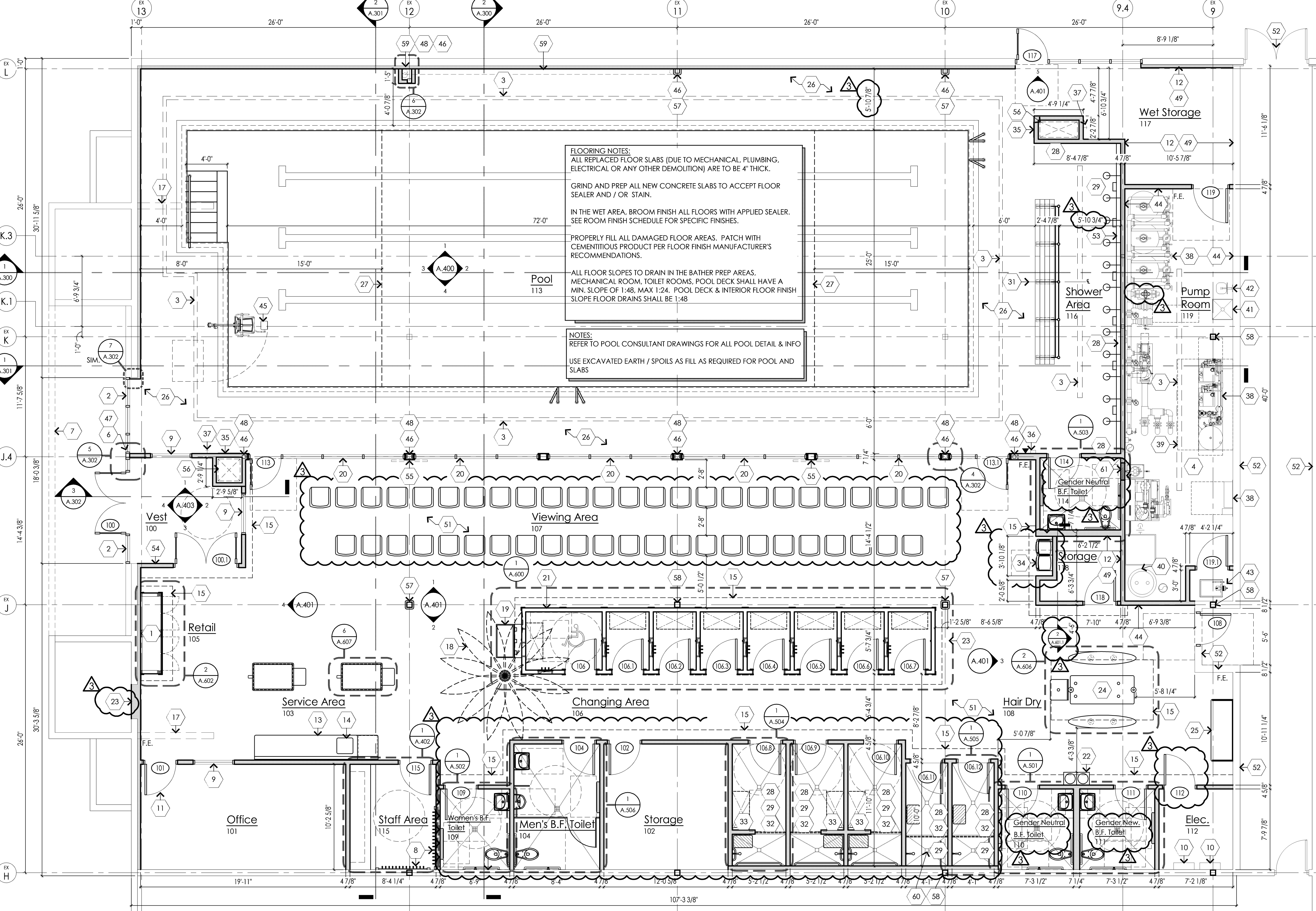


**Keyed Floor Plan Notes:**

- RETAIL SLAT WALL MOUNTED ON FRP PLYWOOD BACKER BOARD; PLYWOOD TO BE MOUNTED FLUSH WITH GYP. SEE A.602 FOR DETAIL.
- NEW STOREFRONT GLAZING. (MATCH EXISTING)
- CONTINUOUS FLOOR DRAIN / TRENCH DRAIN: SEE PLUMBING FOR DETAILS.
- MECHANICAL EQUIPMENT AND DUCTWORK SHOWN FOR REFERENCE; REFER TO MECHANICAL SHEETS FOR DETAILS.
- NEW CORIAN WINDOW SILL. (NOT USED)
- NEW WALL CONSTRUCTION TO MEET EXISTING WINDOW MULLION SEE DETAIL 4/A.202.
- DASHED LINE OF CANOPY AT EXTERIOR.
- DRIVING HOOPS MOUNTED ON 1x BCKER BOARDS ON FRP WALL COVERING. SEE STAFF ROOM INTERIOR ELEVATIONS FOR MORE DETAILS.
- NEW ROUND 42" DIA. CLEAR TEMP. GLASS WOOD WINDOW. "JELD-WEN - STEELINE SERIES (E4V2FRD5)" OR APPROVED EQUAL. GLAZING CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ARCHITECT FOR FINAL APPROVAL PRIOR TO FINAL ORDER. ADD 1x TRIM TO BOTH SIDES OF WINDOW.
- ELECTRICAL PANELS - REFER TO ELECTRICAL ENGINEER'S DRAWINGS FOR ALL ELECTRICAL INFORMATION (PANELS, TRANSFORMER, ETC.)
- 4x4 PLYWOOD BACKBOARD AS REQUIRED FOR PHONE / DATA SYSTEMS: MOUNT ABOVE DOOR.
- OWNER SUPPLIED STORAGE RACKS.
- O.S.R. SUPPLIED SERVICE KIOSK AND BACK COUNTER - SEE SHOP DRAWINGS AS PROVIDED BY O.S.R. FOR MORE INFORMATION. SERVICE COUNTER IS TO COMPLY WITH ANS I.117.1 WITH A MAXIMUM OF 34" COUNTER HEIGHT.
- NEW SINK - PROVIDE PLUMBING AS INDICATED IN PLUMBING DOCUMENTS. (SAW-CUT EXISTING SLAB AS REQUIRED FOR NEW PLUMBING LINES REQUIRED)
- DASHED LINE INDICATES EDGE OF HUT ROOF (ABOVE).
- CHALK BOARD. VERIFY FINAL PLACEMENT WITH OWNER. SEE RESPONSIBILITY MATRIX FOR PRODUCT INFORMATION. (NOT USED)
- EXISTING STRUCTURAL CONCRETE PANEL PROJECTION ABOVE - SEE SECTIONS
- 14'-0" (VERIFY) TALL FAUX PALM TREE - PROVIDE VERT. 2x15'-0" SCH. 40 PIPE SUPPORT (10'-0" ABOVE FINISH FLOOR) WITH THREADED END AS REQUIRED - INSTALL PER MANUFACTURER'S SPECIFICATIONS - VERIFY FINAL LOCATION PRIOR TO POURING NEW CONCRETE FLOOR. SEE RESPONSIBILITY MATRIX (E-3002) FOR CONTACT INFO.
- O.S.R. SUPPLIED AQUARIUM SURROUND - SEE SHOP DRAWINGS AS PROVIDED BY O.S.R. FOR MORE INFORMATION.
- ALUMINUM STOREFRONT DOOR AND GLAZING SYSTEM WITH 3/8" TEMPERED CLEAR GLASS IN CLEAR ANODIZED ALUMINUM SASH (VERIFY EXACT DIMENSION IN FIELD WITH STEEL COLUMNS) - REFER TO GENERAL FLOOR PLAN NOTES FOR ADDITIONAL INFO.
- CORK BOARD WITH 1x / PAINTED TRIM (VERIFY EXACT SIZE)
- WALL MOUNTED "SUITMATE - 115V - 60 HZ" SWIMSUIT WATER EXTRACTOR WITH WALL DRAIN - REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFO. - MOUNT THE TOP OF THE UNIT 42" A.F.F.
- IN-FIELD EXISTING DOOR OPENING - MATCH ADJACENT MATERIALS FINISHES.
- HAIR DRYER STATION AS DETAILED BY O.S.R. (ONE SOURCE RETAIL) - G.C. TO VERIFY EXACT SPECS NEEDED PRIOR TO WORK. G.C. TO PROVIDE AND INSTALL UNISTRUT AT CEILING LEVEL TO SUPPORT DECORATIVE ROOF SYSTEM. VERIFY REQUIREMENTS WITH O.S.R. PROVIDED SHOP DRAWINGS.
- O.S.R. SUPPLIED CHANGING STATION WITH CUBBIES BELOW - SEE SHOP DRAWINGS AS PROVIDED BY O.S.R. FOR MORE INFORMATION.
- NON-SLIP CONCRETE FLOOR FINISH AT POOL DECK. ENSURE MIN. 1" PER 10' SLOPE TO NEAREST DRAIN (MAX. 15'-0" RUN). 4" CONCRETE SLAB ON-GRADE WITH 66-W/4XW/4W WF. AT MID-DEPTH SET ON 6 MIL VAPOR BARRIER ON 4" COMPACTED GRANULAR FILL WHERE REMOVED FROM POOL SITE. AT POOL DECK, SLOPE SLAB TO FLOOR DRAINS. REFER TO FINISH SCHEDULE FOR MIX ADDITIVES, ETC. COORDINATE FINAL COLOR WITH OWNER FOR APPROVAL.
- LINE OF OWNER SUPPLIED BACKSTROKE SWIMMING FLAGS (ABOVE) STRUNG FROM WALL TO WALL - PROVIDE METAL EYE-HOOK SCREW AT 12" ABOVE EXISTING GLAZING (CONFIRM WITH OWNER) FOR EACH END OF FLAG LINE. G.C. TO PROVIDE IN-WALL SOUND BLOCKING FOR PROPER SCREW ATTACHMENT.
- 6'-0" AND 4'-0" TILE WAINSCOT IN CHANGING AREA SHOWERS AND 6'-0" TILE WAINSCOT AT POOL SHOWER WALLS. USE 5/8" CEMENT BOARD BACKER AT ALL TILE LOCATIONS. WALLS IN CHANGING AREA SHOWERS TO BE TILED - REFER TO A.500 SHEETS FOR CLARIFICATION.
- S.S. SHOWERS AT 24" O.C. WITH ADA FAUCET HANDLES AT EACH SHOWER HEAD TO BE LOCATED 7'-0" A.F.F. (REFER TO MEP DOCUMENTS)
- NO PARTITION WALL FOR INSTALLATION OF PLUMBING FIXTURES. STRUCTURE REQUIRED. VERIFY INSTALLATION IN FIELD WITH OWNER. (NOT USED)
- ALIGN THE SHOWER BENCH AND SHOWER TRENCH FLOOR DRAIN. FINAL LOCATION TO BE COORDINATED IN FIELD.
- ROLL-IN AND TRANSFER SHOWERS TO COMPLY WITH 2009 ICC / ANS I-117.1 SPEC'S. SLOPE FLOOR TO DRAIN - REFER TO DETAILS WITH SHEETS A.500.
- ROLL-IN SHOWER WALLS TO EXTEND TO CEILING ABOVE. 3/8" METAL STUDS AT 16" O.C.
- DUAL UNIT DRINKING FOUNTAIN UNIT (ONE STANDARD, ONE ADA COMPLIANT) - REFER TO MOUNTING HEIGHTS SCHEDULE. DASHED LINE INDICATES 30" x 42" CLEAR WHEELCHAIR SPACE.
- RETURN AIR GRILL/ EXHAUST AIR GRILL (SEE MECHANICAL SHEETS) - VERIFY EXACT SIZE REQUIREMENTS WITH MECHANICAL DOCUMENTS - ADJUST ACCORDINGLY (DO NOT PAINT-PRE-FINISHED WHITE)
- LOCATION OF EMERGENCY POWER-OFF (EPO) FOR POOL EQUIPMENT AND TELEPHONE OUTLET TO BE VERIFIED BY OWNER. REFER TO E.201 FOR MORE INFORMATION.
- RECESSED HOSE BIB - COORDINATE FINAL LOCATION WITH OWNER AND PLUMBING ENGINEER. HOSE BIB AT STAFF AREA AND SHOWER AREA TO HAVE TILE SURROUND WITH SQUARE EDGE, STAINLESS STEEL SCHLUTER.
- POOL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO POOL DRAWINGS FOR MORE INFORMATION.
- NEW 3.5" TALL CONCRETE HOUSE KEEPING PAD FOR POOL EQUIPMENT. COORDINATE FINAL SIZE IN FIELD WITH POOL EQUIPMENT.
- REFER TO PLUMBING DRAWINGS FOR FILTER BACKWASH TANK DETAIL - SHOWN FOR REFERENCE ONLY.
- SERVICE MOP SINK - REFER TO PLUMBING DRAWINGS.
- WALL MOUNTED PORTABLE EMERGENCY EYE WASH - VERIFY FINAL LOCATION WITH MEP DOCUMENTS; OWNER.
- SALT TANK FOR CHLORINE SYSTEM WALLS TO BE MAX. 8'-0" A.F.F. - INSTALL 2 x 8 FRP CEILING JOIST WITH 3/4" PLYWOOD DECK.
- PROVIDE FRP WALL COVERING ON 5/8" F.R.T. PLYWOOD FROM FINISHED FLOOR TO 8'-0" A.F.F. ON ALL FRAMED WALLS WITHIN THE MECHANICAL ROOM.
- REFER TO WT GROUP POOL DRAWINGS FOR INFORMATION ON THE ADA POOL LIFT/CHAIR.
- NEW HSS COLUMN.
- C.F. STUD POST: PROVIDE PRE-FINISHED BREAK METAL AT FACE OF EXPOSED POST TO MATCH STOREFRONT FRAME. METAL IS TO WRAP AROUND FACE OF POST AND RETURN BACK INTO WINDOW FRAME. TO BE FLUSH WITH STOREFRONT SYSTEM. SHIM AS REQUIRED.
- COLUMN, BOX-OUT WITH 5/8" GYPSUM BOARD PANELS ON (20 GAUGE) STEEL STUDS AT COLUMN CORNERS. JOINTS FINISHED. PROVIDE MOLD TOUGH BOARD, VAPOR BARRIER AND BATT INSULATION ON POOL SIDE (TYP.) WRAP COLUMN WITH VAPOR BARRIER.
- PROVIDE 2x8 BLOCKING AT 4', 6' & 8' AFF
- PLATFORM 8'-0" AFF., NEW AAO UNIT ON ROOF TOP - SEE STRUCTURAL DRAWINGS. (NOT USED)
- EPOXY CONCRETE - SEE FINISH SCHEDULE.
- BY LANDLORD
- CORIAN SOAP LEDGE - REFER TO SECTION (6/A.500).
- MAGNETIC BOARD WITH BAMBOO TRIM VERIFY FINAL PLACEMENT AND SIZE WITH OWNER. (IF NO BAMBOO TRIM USE PAINTED HARDIE TRIM)
- TV ABOVE - PROVIDE ELECTRICAL OUTLET FOR POWER - VERIFY CABLE AND DATA REQUIREMENTS WITH OWNER.
- RETURN AIR DUCT - SEE MECHANICAL.
- EXPOSED COLUMN WRAPPED WITH 4" HIGH, 'RESLITE' SAFETY PADDING.
- EXISTING COLUMN TO REMAIN. VERIFY COLUMN AND FOOTING LOCATION AND SIZING PRIOR TO CONSTRUCTION.
- EXISTING 6" ROOF CONDUIT TO REMAIN - VERIFY LOCATION IN FIELD
- NEW DRAIN. NOTE: TOP OF EXISTING COLUMN FOOTING TO BE VERIFIED IN FIELD BY G.C. PRIOR TO CONSTRUCTION. POSSIBLE CONFLICT WITH NEW SHOWER DRAIN - FIELD CHANGE MAY BE REQUIRED.
- 20'x30' ATTIC ACCESS HATCH - FINAL LOCATION TBD IN FIELD.

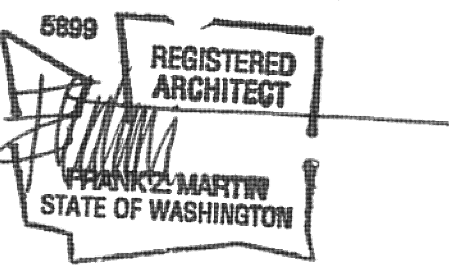
**General Floor Plan Notes:**

- GLAZING CONTRACTOR IS TO PROVIDE SHOP DRAWINGS FOR ARCHITECT'S REVIEW BEFORE PURCHASING.
- ALL MECHANICAL ROOMS CONTAINING CONTROLS FOR AIR CONDITION SYSTEM, SPRINKLER RISERS, AND VALVES, OR OTHER FIRE DETECTION, SUPPRESSION OR CONTROL ELEMENTS SHALL BE PROVIDED WITH APPROVED SIGNAGE IDENTIFYING THE ROOMS FOR USE BY THE FIRE DEPT.
- ALL ENTRANCE AND EXIT DOORS WILL HAVE BARRIER FREE ACCESSIBILITY.
- ALL INTERIOR FINISHES IN EXIT ACCESS CORRIDORS, OTHER EXIT WAYS, ROOMS, AND ENCLOSED SPACES IN USE GROUPS "A-3", "A-4", "B" AND "3" ARE REQUIRED TO HAVE AT LEAST A CLASS C: FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450; RATING AS LISTED IN THE BUILDING CODE AS LISTED ON SHEET G.001.
- SEATING, TABLES AND COUNTERS ARE TO COMPLY WITH ALL APPLICABLE CODES AS LISTED ON SHEET G.003.
- ALL SAFETY GLAZING MUST COMPLY WITH SECTION 2404.2 - HUMAN IMPACT LOADS. PROVIDE LABEL AND/OR IDENTIFICATION ON GLASS AS REQUIRED.
- PROVIDE A DIRECT DIALED, HARD WIRED PHONE THAT IS FULLY OPERATIONAL WITHIN THE POOL AREA PER SECTION 69.1-2.22C. THE PHONE SHALL BE IMMEDIATELY ACCESSIBLE FROM THE POOL DECK AND BE LOCATED SO THAT A CLEAR, UNOBSTRUCTED VIEW OF THE POOL IS PROVIDED - FINAL LOCATION T.B.D.
- PROVIDE WALL MOUNTED PRE-FAB FOLD DOWN CHANGING SURFACE - TYP. AT EACH TOILET ROOM. PROVIDE IN WALL BLOCKING FOR ATTACHMENT AS REQUIRED PER MANUFACTURE SPECIFICATIONS.
- F.E. DENOTES FIRE EXTINGUISHER LOCATIONS AT MAX SPACING OF 75' APART PER CODE. EXACT LOCATION TO BE AT THE DIRECTION OF THE FIRE MARSHAL - PROVIDE SEMI-RECESSED METAL CABINET BOX (PRE-FINISHED WHITE) WITH CLEAR ACRYLIC VERTICAL (NARROW) PANEL AND SQUARE TRIM - SIMILAR OR APPROVED EQUAL TO J.B INDUSTRIES COSMOPOLITAN - VERIFY ALL LOCATIONS WITH FIRE MARSHAL PRIOR TO INSTALLATION.
- EXTERIOR STOREFRONT WINDOW SYSTEM (TYP.)  
- 2x4-1/2" THERMALLY BROKEN FRAMES - 1" INSULATED, LOW-E GLAZING  
- RAMCO "RIF" SERIES OR KAWNEER TRIFAB 451 SERIES, CENTER GLAZING.  
- COLOR: SUBMIT SAMPLE FOR APPROVAL
- VAPOR RETARDER  
SEE SHEET A.102 & A.004 FOR DETAILS
- PROVIDE F.R.T SOLID BLOCKING IN WALL AS REQUIRED FOR ALL WALL MOUNTED ACCESSORIES.
- ALL HAZARDOUS MATERIALS SHALL NOT EXCEED ALLOWABLE QUANTITIES LISTED IN IBC TABLE 307.1(1)
- PROVIDE 5/8" GYPSUM BOARD (MOLD TOUGH TYPE "C" AT WET AREAS) ON 3-5/8" (20 GA.) METAL FURRING AT 16" O.C. IF KRAFT FACED INSULATION IS SPECIFIED. PROVIDE NON-FACED BATT INSULATION AT ALL AREAS WHERE HEAVY DUTY VAPOR RETARDER IS PRESENT).
- DOOR FRAMES ARE LOCATED 4" FROM THE PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE.
- VERIFY DIMENSIONS BEFORE COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- ALL RATED WALL ARE TO EXTEND TO DECK WITH SLP TRACKS AND TO BE SEALED TIGHT TO DECK WITH ACOUSTICAL SEALANT. DECK FLUTES/DOCKS AT TOP OF WALL TO BE FILLED WITH MINERAL WOOL FIBER METAL DECK FLUTE FILLER.
- ALL DRYWALL SHOULD BE CUT TO FIT DECK / MUD AND TAPE / SAND TO FINISH - PAINTED MINERAL WOOL INSERTS ARE NOT ACCEPTABLE ANYWHERE.
- CONCRETE TO PITCH TOWARDS ALL DRAINS, INCLUDING BATHROOMS.
- PROVIDE 48" HIGH, 'RESLITE' SAFETY PADDING SURROUND AT EXPOSED COLUMNS.
- PATCH AND REPAIR ALL EXISTING EXTERIOR CMU MASONRY WALLS TO REMAIN AT ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION. MATCH EXISTING ADJACENT SURFACES AND COURSING. PREP NEW CMU AND PATCHES PRIOR TO PAINTING. HOLES OR DAMAGE TO CMU LESS THAN 2" IN DIAMETER MAY BE PATCHED WITH CMU PATCHING MORTAR EQUAL TO SIKAREPAIR SHB OR SIKATOP 123 PLUS BY SIKA. WHERE HOLES OR DAMAGE ARE LARGER THAN 2" IN DIAMETER THE CMU SHALL BE REMOVED AND REPLACED.
- AT NEW MASONRY WALL AND PATCH LOCATIONS, INFILL MASONRY TO MATCH ADJACENT EXISTING MASONRY CONSTRUCTION. COLOR, TEXTURE, AND COURSING - TYP. EXISTING UNTEL TO REMAIN FOR FUTURE USE.



**FLOORING NOTES:**  
ALL REPLACED FLOOR SLABS (DUE TO MECHANICAL, PLUMBING, ELECTRICAL OR ANY OTHER DEMOLITION) ARE TO BE 4" THICK.  
GRIND AND PREP ALL NEW CONCRETE SLABS TO ACCEPT FLOOR SEALER AND / OR STAIN.  
IN THE WET AREA, BROOM FINISH ALL FLOORS WITH APPLIED SEALER. SEE ROOM FINISH SCHEDULE FOR SPECIFIC FINISHES.  
PROPERLY FILL ALL DAMAGED FLOOR AREAS. PATCH WITH CEMENTITIOUS PRODUCT PER FLOOR FINISH MANUFACTURER'S RECOMMENDATIONS.  
ALL FLOOR SLOPES TO DRAIN IN THE BATHER PREP AREAS, MECHANICAL ROOM, TOILET ROOMS, POOL DECK SHALL HAVE A MIN. SLOPE OF 1:48, MAX 1:24. POOL DECK & INTERIOR FLOOR FINISH SLOPE FLOOR DRAINS SHALL BE 1:48

**NOTES:**  
REFER TO POOL CONSULTANT DRAWINGS FOR ALL POOL DETAIL & INFO  
USE EXCAVATED EARTH / SPOILS AS FILL AS REQUIRED FOR POOL AND SLABS



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**City of Puyallup**  
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Building	Planning
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Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
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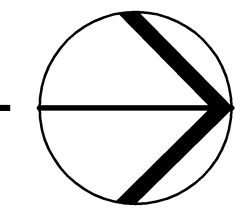
project: \_\_\_\_\_ sheet title: **Floor Plan**

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job number 22006 sheet number A.100

PRCTI20221793

Floor Plan  
3/16" = 1'-0"



**Keyed Ceiling Plan Notes:**

1. RECESSED RETAIL SLAT WALL. SEE ELEVATION DETAILS FOR FURTHER INFORMATION. PROVIDE GYPSUM BOARD CEILING WITHIN RECESSED PORTION. (NOT USED)
2. LINE OF ROOF OVERHANG ABOVE.
3. LINE OF HAIR DRYER STATION THATCH ROOF - SEE DETAILS AS SUPPLIED BY OSR.
4. LIGHT TO BE MOUNTED TO UNDERSIDE OF O.S.R. PROVIDED HAIR DRYER STATION ROOF CANOPY - PROVIDE CONDUIT AS REQUIRED. COORDINATE EXACT LOCATION AND MOUNTING WITH ROOF CANOPY IN FIELD.
5. WALL MOUNTED LIGHT FIXTURE CENTERED WITHIN INTERIOR SPACE 7'-6" A.F.F. - TYP. AT CHANGING HUTS.
6. WALL MOUNTED LIGHT FIXTURE CENTERED ABOVE MIRROR 7'-6" A.F.F. - TYP. AT TOILET ROOMS.
7. MECHANICAL DUCT OR EQUIPMENT. LOCATIONS ARE NOT EXACT FOR REFERENCE ONLY - REFER TO MECHANICAL DRAWINGS FOR EXACT LAYOUT AND DIMENSIONS.
8. WALL MOUNTED MIRROR - CENTER OVER LAVATORY.
9. UNDERSIDE OF EQUIPMENT PLATFORM; BOTTOM OF FRAMING TO BE 7'-0" A.F.F. (MIN.). SEE SECTIONS FOR MORE DETAILS. (NOT USED)
10. NEW VELUX SKYLIGHT. CLEAR ACRYLIC GLAZING. DOME SHAPE GLAZING. SIZE 4x4. COLOR: ALUMINUM.
11. EXISTING PIPE BRACING - SEE SECTIONS AND STRUCTURAL.
12. EXISTING STRUCTURAL CONCRETE PANEL PROJECTION ABOVE - SEE SECTIONS

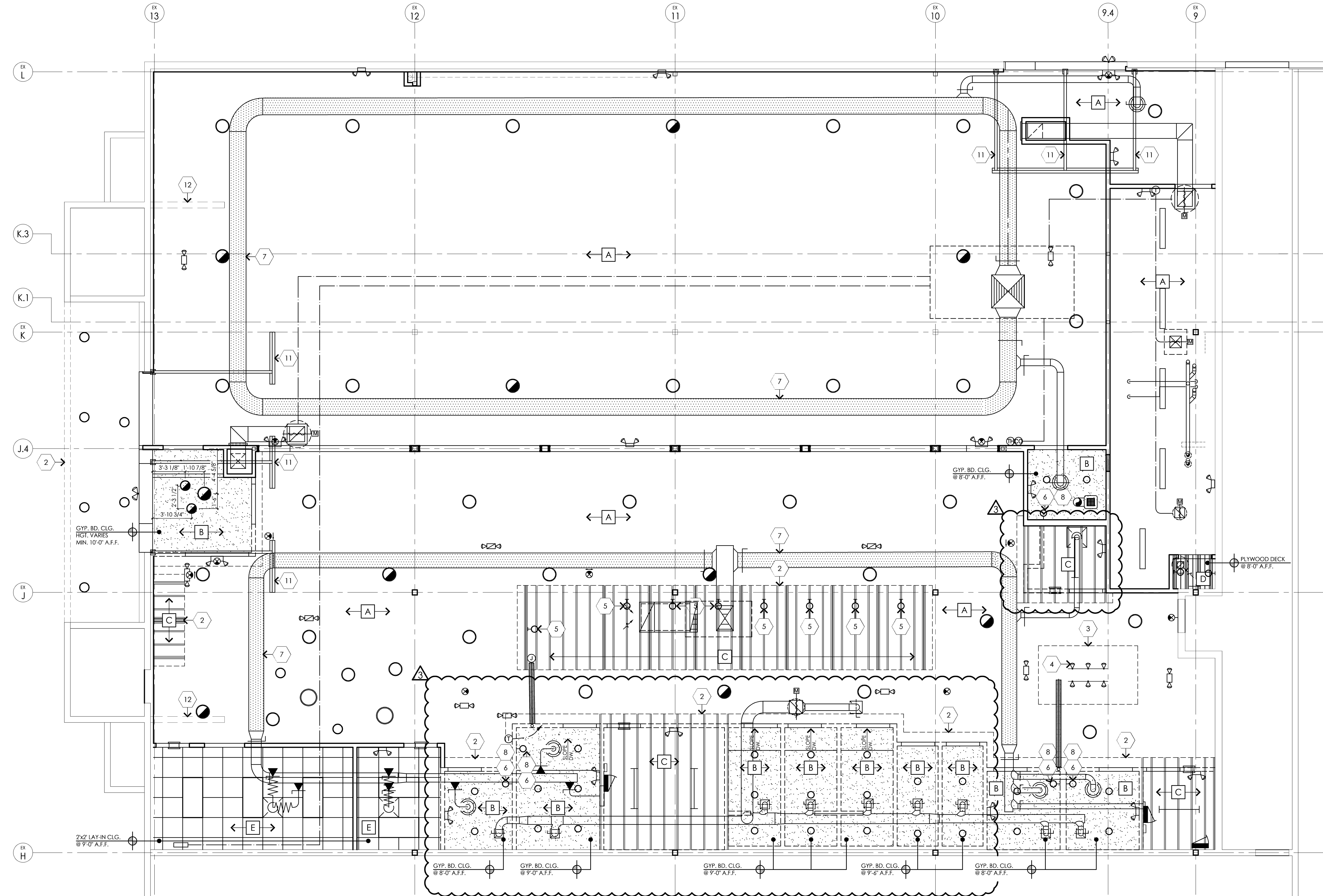
Ceiling Symbols Legend		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	PENDANT HUNG LOW BAY LIGHT FIXTURE	AS NOTED ON ELECTRICAL DRAWINGS
	8" LIGHT TRACK (BLACK) W/ LED TRACK HEADS	AS NOTED ON ELECTRICAL DRAWINGS
	WALL MOUNTED LIGHT FIXTURE	AS NOTED ON ELECTRICAL DRAWINGS
	CHAIN HUNG INDUSTRIAL LIGHT FIXTURE	AS NOTED ON ELECTRICAL DRAWINGS
	RECESSED CLR DOWNLIGHT W/ TEMPERED GLASS PRISMATIC LENS	FLUSH W/ CEILING
	2' X 4' FLUORESCENT LIGHT FIXTURE	FLUSH W/ CEILING
	ACRYLIC PENDANT GLOBE FIXTURE - DIAMETER AS CALLED OUT	AS NOTED ON ELECTRICAL DRAWINGS
	ACOUSTICAL CEILING PANEL (FINAL QUALITY BY OWNER)	AS NOTED ON CEILING PLAN
	EXIT SIGN	AS NOTED ON ELECTRICAL DRAWINGS
	EMERGENCY LIGHT	AS NOTED ON ELECTRICAL DRAWINGS
	LED EXIST SIGN W/ 'BUG EYES'	AS NOTED ON ELECTRICAL DRAWINGS

Ceiling Finish Legend			
TAG	SYMBOL	DESCRIPTION	HEIGHT / LOCATION
A		EXPOSED CEILING - PAINT JOISTS, DECK, AND GIRDERS (SEE FINISH SCHEDULE)	VARIABLES / AS NOTED ON PLANS SEE SHEET AC.100.1
B		5/8" GYP. BRD. CEILING (PAINT)	AS NOTED ON PLANS
C		CORRUGATED METAL ROOFING ON 2x4 RAFTERS (PAINT RAFTERS - SEE FINISH SCHEDULE)	VARIABLES / AS NOTED ON PLANS
D		3/4" PLYWOOD DECK ON 2x6 HT CEILING JOISTS	AS NOTED ON PLANS
E		ACOUSTIC LAY-IN GYPSUM CEILING PANELS WITH VINYL LAMINATED FACE - SEALED BACK AND EDGES (SEE FINISH SCHEDULE)	AS NOTED ON PLANS

**General Ceiling Plan Notes:**

1. ALL DIMENSIONAL LOCATIONS OF DEVICES SHALL BE TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED.
2. EXPOSED DUCTWORK, CONDUIT, ETC. SHALL BE PAINTED (U.N.O.) DO NOT PAINT LIGHT FIXTURES (U.N.O.). REFER TO FINISH SCHEDULE FOR COLOR / FINISHES.
3. PROVIDE CONDUIT IN FLOOR FOR FIRE STROBES AND LIGHTING IN CHANGING HUTS - SEE MEP DRAWINGS BY OTHERS.
4. FOR ALL LIGHTING DESIGNATIONS, SEE ELECTRICAL SHEETS FOR MORE INFORMATION.
5. SEE LIGHTING PLAN ON SHEET E.101 FOR EXIT / EMERGENCY LIGHTS AND NIGHT LIGHTS.
6. G.C. IS TO INCLUDE ALL UNISTRUT, THREADED ROD, CLAMPS, AND OTHER MISCELLANEOUS ITEMS REQUIRED TO SUSPEND ALL CEILING MOUNTED ITEMS.
7. CLEAN, SCRAPE, PREP, AND PAINT CEILING DECK AND JOISTS AS REQUIRED AT EXPOSED CEILING AREAS.
8. AT EXPOSED CEILING AREAS, RUN ALL NEW WIRING, CONDUIT, AND MECHANICAL DUCT WORK IN A NEAT AND CLEAN MANNER.

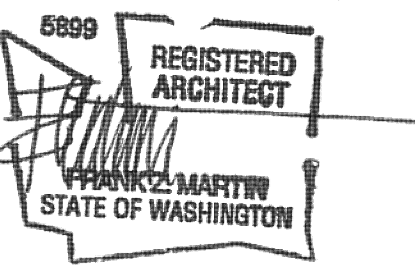
SEE SHEET E.000 FOR LIGHTING FIXTURE SCHEDULE AND SHEET E.101 FOR FIXTURE LOCATIONS.



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Building	Planning
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Client  
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H&H Swim School  
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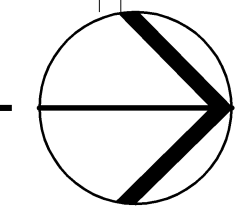
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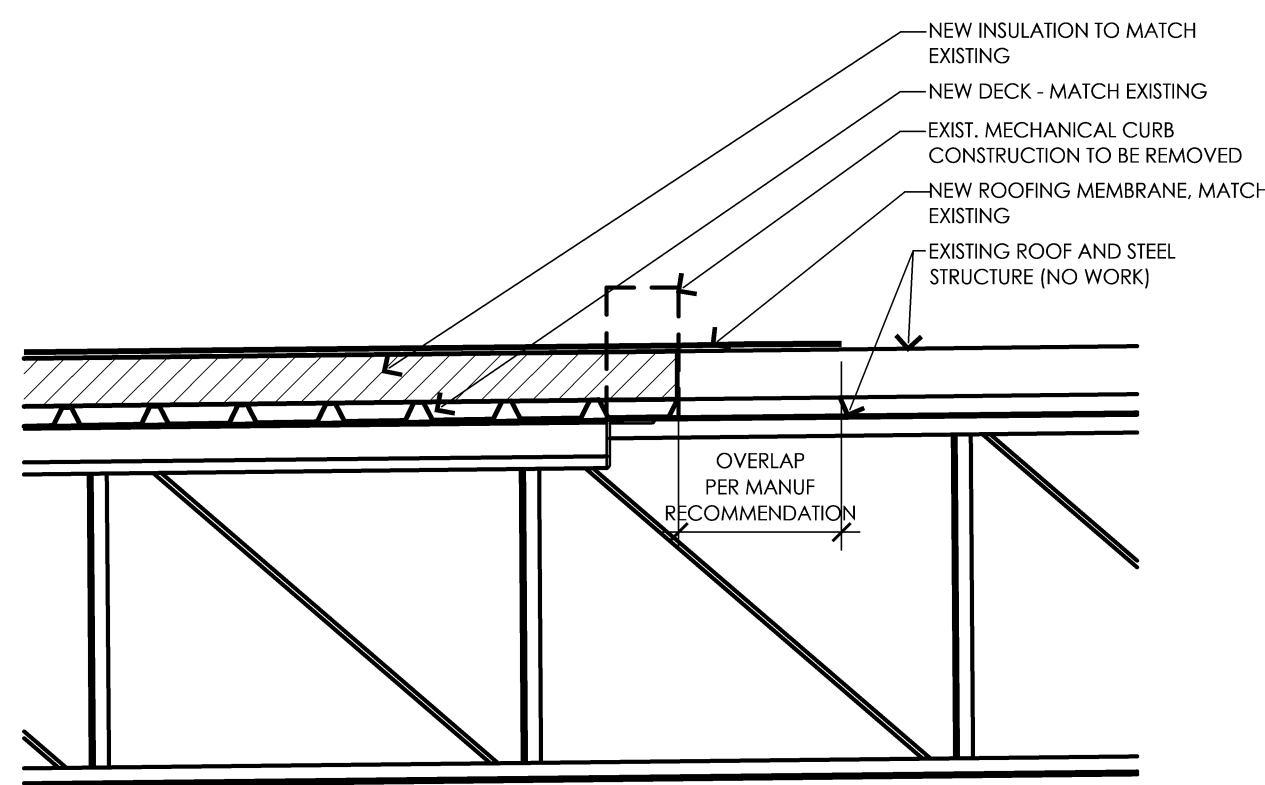
job number 22006 sheet number AC.100

PRCTI20221793

Reflected Ceiling Plan

3/16" = 1'-0"





Roof Curb Removal Detail

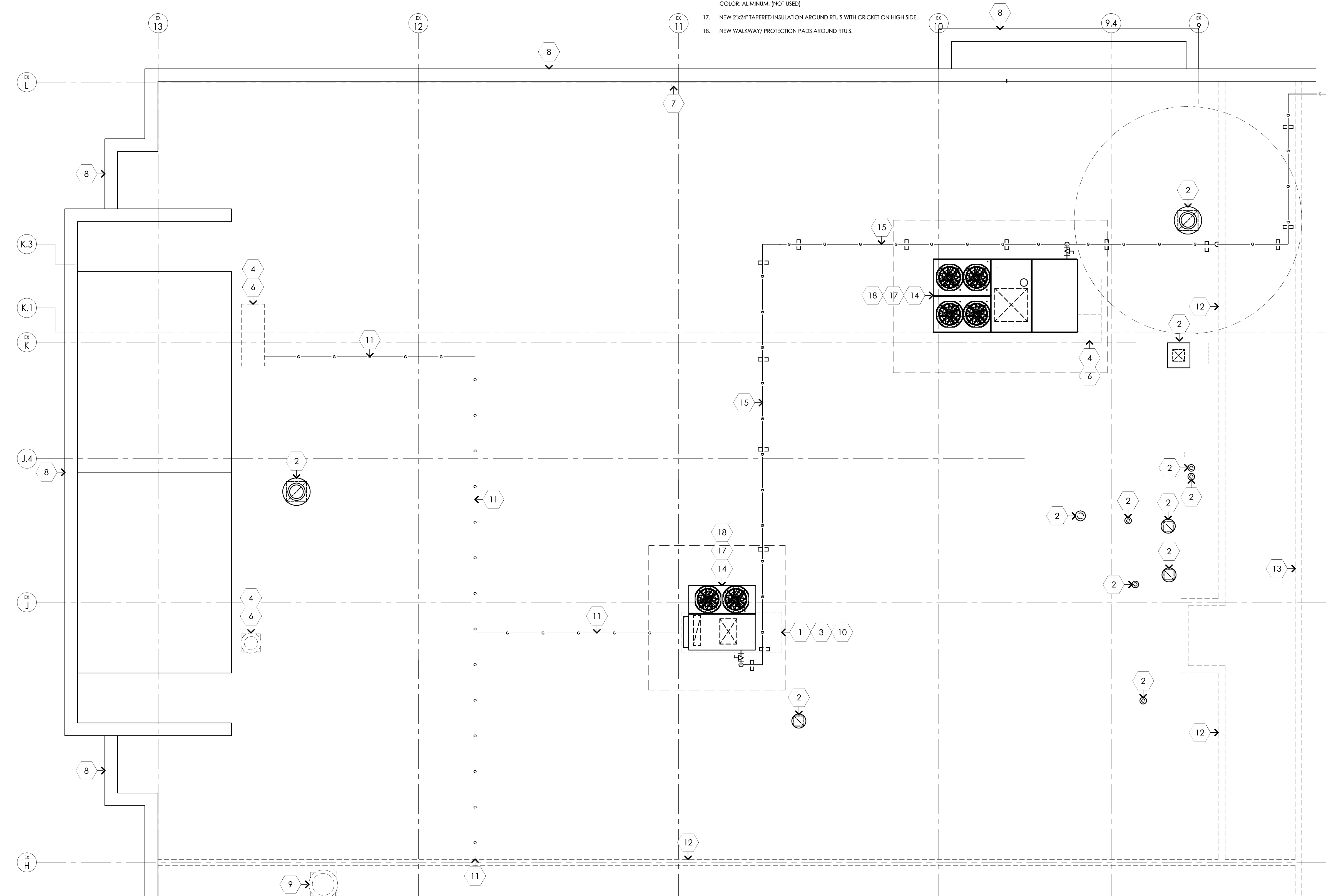
3/4" = 1'-0"

**Keyed Roof Plan Notes:**

- EXISTING TYPICAL ROOF CONSTRUCTION TO REMAIN AS IS - REPAIR AS REQUIRED AT ALL NEW ROOF PENETRATIONS (V.I.F) COORDINATE WITH MEP DOCUMENTS.
- NEW MECHANICAL EQUIPMENT - REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
- ALL STRUCTURAL SUPPORTS FOR ROOF MOUNTED EQUIPMENT ARE EXISTING TO REMAIN.
- PATCH AND REPAIR ROOF WHERE REMOVED RTU / EQUIPMENT WAS LOCATED. MATCH EXISTING ADJACENT DECK AND ROOFING CONSTRUCTION. BY GENERAL CONTRACTOR.
- DEMO. EXISTING ROOF TOP EQUIPMENT BY GENERAL CONTRACTOR. [VERIFY WITH MECHANICAL DOCUMENTS]
- DEMO. EXISTING ROOF TOP EQUIPMENT AND ASSOCIATED CURB BY GENERAL CONTRACTOR. [VERIFY WITH MECHANICAL DOCUMENTS]
- EXISTING ROOF DRAIN.
- EXISTING PARAPET CAP WITH METAL COPING TO REMAIN AS IS.
- EXISTING ROOFTOP EQUIPMENT.
- EXISTING RTU TO BE REMOVED. EXISTING 10'x4' OPENING TO BE USED FOR NEW RTU. VERIFY SIZE AND LOCATION OF OPENING IN FIELD. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
- EXISTING GAS LINE. LANDLORD TO CUT, CAP AND REMOVE.
- LINE OF DEMISING WALL BELOW.
- LINE OF SHARED HALLWAY WALL BELOW.
- NEW MECHANICAL EQUIPMENT. PROVIDE INTERMEDIATE STRUCTURE AS REQUIRED TO ACCOMMODATE NEW CURB CONFIGURATION AND REQUIREMENTS - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- NEW NATURAL GAS LINE. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
- (OPTIONAL) NEW VELUX SKYLIGHT. CLEAR ACRYLIC GLAZING. DOME SHAPE GLAZING. SIZE: 4'x4'. COLOR: ALUMINUM. (NOT USED)
- NEW 2'x2' TAPERED INSULATION AROUND RTU'S WITH CRICKET ON HIGH SIDE.
- NEW WALKWAY / PROTECTION PADS AROUND RTU'S.

**General Roof Plan Notes:**

- ALL ROOF REPAIRS ARE TO BE PERFORMED BY G.C.'S ROOFING CONTRACTOR AND VERIFY ROOFING MANUFACTURER'S WARRANTIES PRIOR TO ANY WORK. G.C. TO COORDINATE WORK AS REQUIRED. FLASH AND SEAL ALL ROOF PENETRATIONS TO MAINTAIN ROOF WARRANTY WHERE APPLICABLE.
- COORDINATE ALL EXHAUST FANS, ROOF MOUNTED MECHANICAL EQUIPMENT, ETC. ROOF PENETRATION LOCATIONS WITH MECHANICAL ENGINEER'S DRAWINGS - ARCHITECT IS NOT RESPONSIBLE FOR THE ACCURACY OF THE EXACT LOCATION OF ROOF TOP MECHANICAL UNITS
- G.C. TO REMOVE ALL UNUSED ITEMS, CURBS, GAS AND ELECTRICAL CONDUITS, AND WIRING FROM ROOF EVEN IF NOT NOTED. G.C. IS RESPONSIBLE FOR ALL DAMAGE PROTECTION OF ROOF SURFACES
- ALL STRUCTURAL SUPPORTS FOR ROOF MOUNTED EQUIPMENT THAT ARE EXISTING TO REMAIN
- SEE MEP DOCUMENTS FOR ALL NEW PENETRATIONS AND EQUIPMENT
- VERIFY SCOPE OF ROOF TOP DEMOLITION WITH MECHANICAL DOCUMENTS
- EXISTING ROOF DRAINS TO REMAIN. VERIFY CONDITION OF ROOF DRAINS - REPAIR AS REQUIRED.



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Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.

issue / revision date

10-07-22	Staggered Review
11-07-22	Preliminary Budget Review
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02-09-23	City Review Comments
02-09-23	DOH Review Comments
02-09-23	Elect. Review Comments

drawn by	checked by

project: **Goldfish Swim School**  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

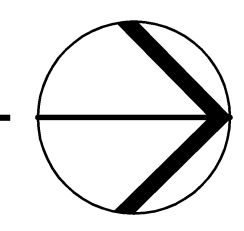
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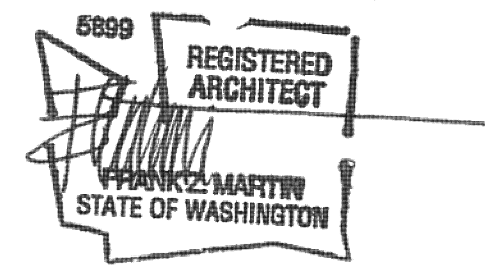
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(248) 557-1062  
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job number: 22006  
sheet number: A.101

PRCTI20221793

Roof Plan  
3/16" = 1'-0"





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Development & Permitting Services  
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Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

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job number 22006 sheet number A.102

**Wall Legend**

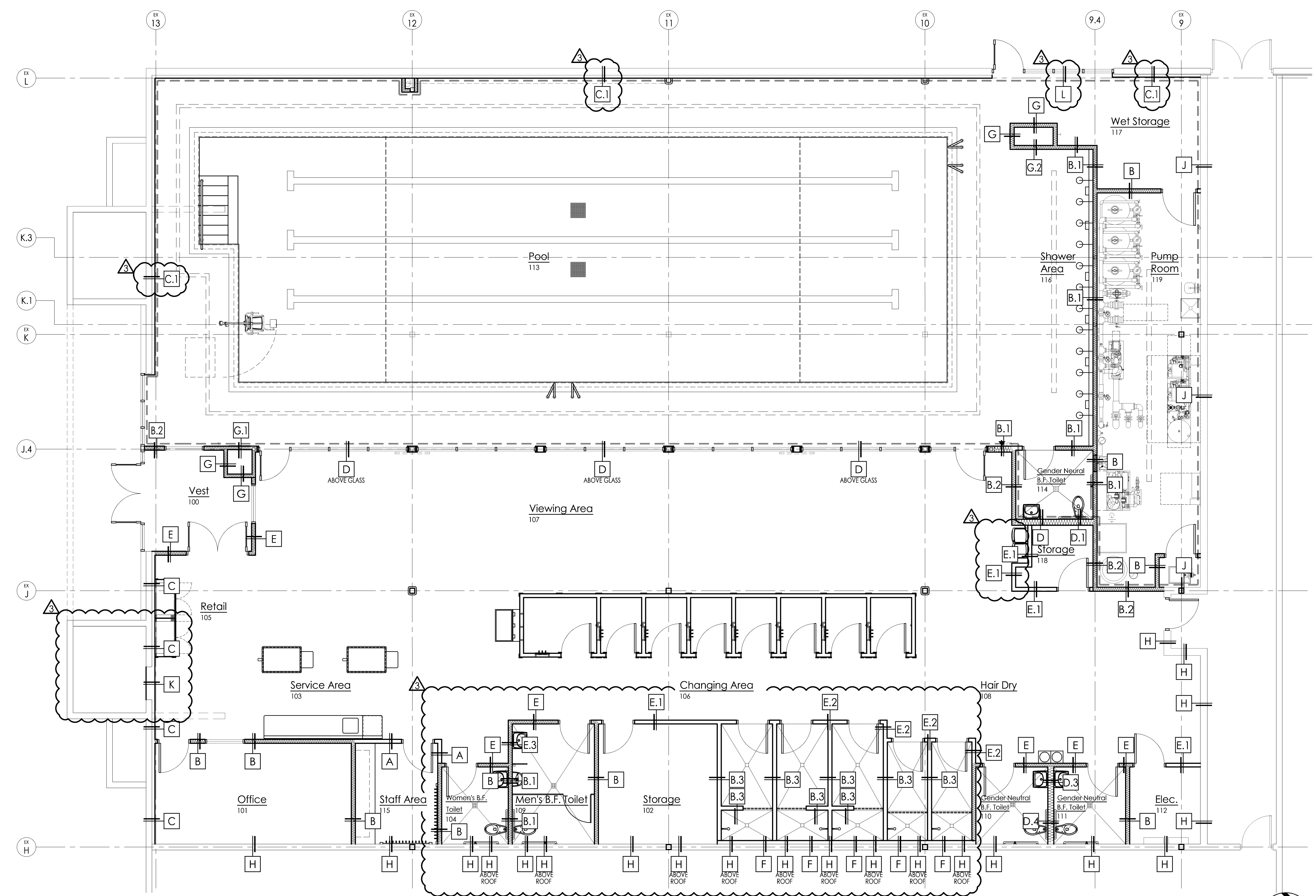
	INDICATES WALL TO RECEIVE 'REF INDUSTRIES - GRIFFOLYN TYPE 55 FF'
	INDICATES WALL TO RECEIVE UNFACED OR FACED BATT INSULATION
	INDICATES WALL TO BE A SMOKE BARRIER

**Wall Legend**

\*SEE SHEET A.004 AND A.005 FOR ALL WALL TYPES

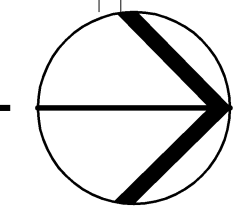
1. PROVIDE A LEVEL IV FINISH AT ALL GYP. BOARD SURFACES. REFER TO CHAPTER 5 OF USG GYPSUM CONSTRUCTION HANDBOOK FOR FINISH DEFINITIONS.
2. PROVIDE 'USG - MOLD TOUGH' OR EQ. AT ALL WET LOCATIONS - SINK, W.C., ETC.
3. PROVIDE 'USG - MOLD TOUGH' OR EQ. AT ALL HUMID LOCATIONS - POOL, SHOWERS, TOILET #114, MECHANICAL ROOM AND STAFF AREA U.N.O.
4. PROVIDE CONTROL JOINTS / EXPANSION JOINTS IN GYPSUM CEILING AND WALLS AT 30' O.C. USE USG 093 CONTROL JOINT. INSTALL PER MANUFACTURER SPECIFICATIONS.

- NOTES:  
FOR FURTHER INFORMATION ON VAPOR RETARDER CONTACT:  
REF INDUSTRIES: GRIFFOLYN  
MIKE McELHANY - 1.800.231.6074
1. ALL EXTERIOR WALLS WHERE HEAVY DUTY VAPOR BARRIER IS PRESENT, PROVIDE UNFACED BATT INSULATION AS REQUIRED PER GRIFFOLYN MANUFACTURE SPECIFICATIONS. IF THE 'GRIFFOLYN' VAPOR RETARDER IS NOT PRESENT, PROVIDE KRAFT FACED BATT INSULATION. KRAFT FACE IS TO ACT AS VAPOR RETARDER PER 209.
  2. SHADED AREAS INDICATE AREAS OF NEW 4" REINFORCED CONCRETE SLAB WITH 6 x 6 x 2.1 x 2.1 WWM PLACED AT 1/2 DEPTH OF CONCRETE. WHERE NEW CONCRETE SLAB MEETS EXISTING SLAB EPOXY #4 (2" LENGTH) BARS 12" INTO EXISTING SLAB AT 36" O.C.
  3. MUST SEAL ALL PENETRATIONS
  4. NO GYPSUM ON INTERIOR SIDE OF MECHANICAL CHASE, TYP.
  5. FURRING AND GYP. TO CONCEAL CROSS BRACING.



PRCTI20221793

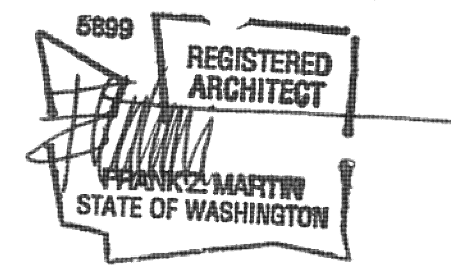
Vapor Retarder Location & Wall Type Plan  
3/16" = 1'-0"



**Base Board Legend**

---	VCT BASE
- - - -	WOOD BASE

NOTE: INSTALL VCT BASE AROUND ALL MILLWORK, RECEPTION DESK(S) AND BACK COUNTER, HAIR DRYER STATION BASE, CUBBIES, BABY CHANGING STATION, AND STAFF ROOM CABINET BASE, AND OTHER OSR SUPPLIED ITEMS AS NEEDED.



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Puyallup, WA  
F.A. #272

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02-09-23	DOH Review Comments
02-09-23	Elect. Review Comments

drawn by \_\_\_\_\_ checked by \_\_\_\_\_

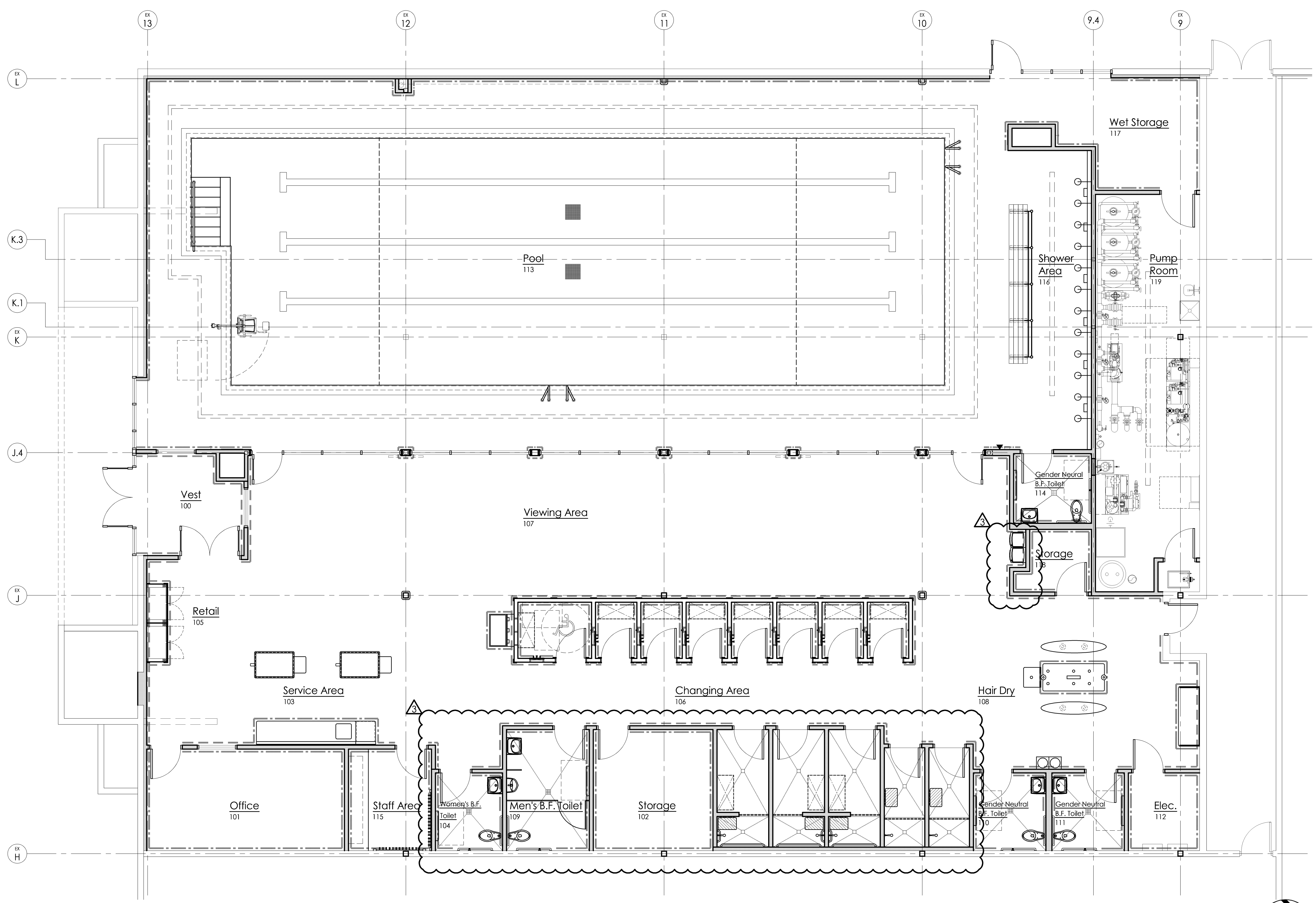
Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

Baseboard Trim  
Plan

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

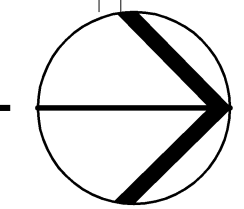
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job number 22006 sheet number A.103



**PRCTI20221793**

Baseboard Trim Plan  
3/16" = 1'-0"

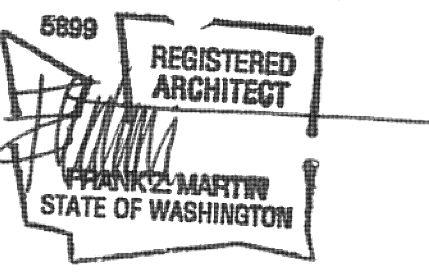


**Concrete Slab Sawcut Plan Notes:**

1. CAULK ALL CONCRETE JOINTS WITH PROPER NON STAINING FLEXIBLE SELF LEVELING CAULK TO BE CLEANED AND SCRAPPED FROM CONCRETE.
  2. SEAL FLOORS PER SPECIFICATIONS
  3. CONCRETE CUTS MUST BE 2/3 DOWN THROUGH CONCRETE
  4. PIN EXISTING CONCRETE SLABS AND ALL TRENCHES - NO EXCEPTIONS - 24" O.C./ STAGGERED EITHER SIDE - 4" MIN EMBEDDED WITH EPOXY.
- JOINTS SHOWN HERE APPROX. 15' MAX. FOR CONVENIENCE. FINAL JOINT POSITIONS MAY VARY PENDING GC CALCULATIONS.
- NEW 4" REINFORCED CONCRETE SLAB WITH 6 x 6 x 2.1 x 2.1 W/M PLACED AT 1/2 DEPTH OF CONCRETE WHERE NEW CONCRETE SLAB MEETS EXISTING SLAB EPOXY #4 (24" LENGTH) BARS 12" INTO TRENCHES AND EXISTING SLAB AT 36" O.C.
- ALL FLOOR SLABS (47 ARE TO BE DESIGNED PER STRUCTURAL PLANS. GRIND AND PREP ALL NEW CONCRETE SLABS TO ACCEPT FLOOR SEALER. SEE ROOM FINISH SCHEDULE FOR SPECIFIC FINISHES. ALL FLOOR SLOPES TO DRAINS IN THE BATHER PREP AREAS, MECHANICAL ROOM, TOILET ROOMS, POOL DECK SHALL HAVE A MIN. SLOPE OF 1:48, MAX 1:24 POOL DECK AND INTERIOR FLOOR FINISH SLOPE FLOOR DRAINS SHALL BE 1:48 (OR AS REQUIRED BY CODE)
- REFER TO POOL CONSULTANT DRAWINGS FOR ALL POOL DETAIL AND INFO. USE EXCAVATED EARTH/SPOILS AS FILL AS REQUIRED FOR POOL AND SLABS.
- ADA SHOWER TO BE POURED SEPARATELY.

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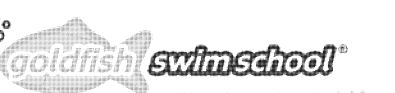
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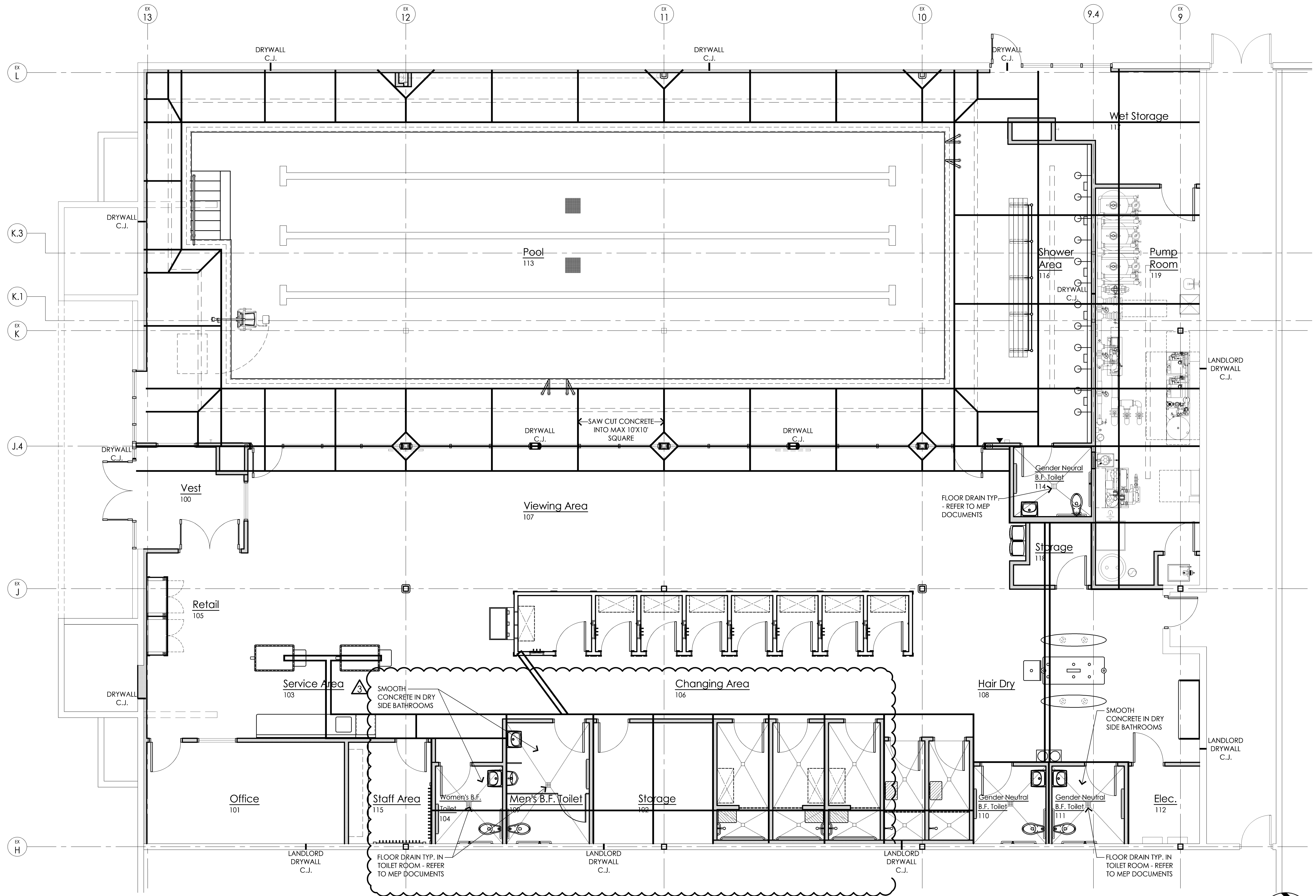
drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
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project: \_\_\_\_\_ sheet title: \_\_\_\_\_

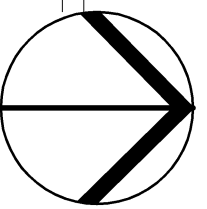
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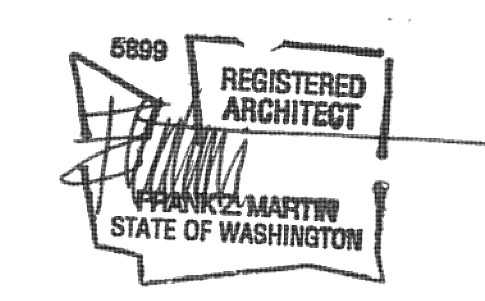
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**PRCTI20221793**

Concrete Slab Sawcut Plan  
3/16" = 1'-0"





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**City of Puyallup**  
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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

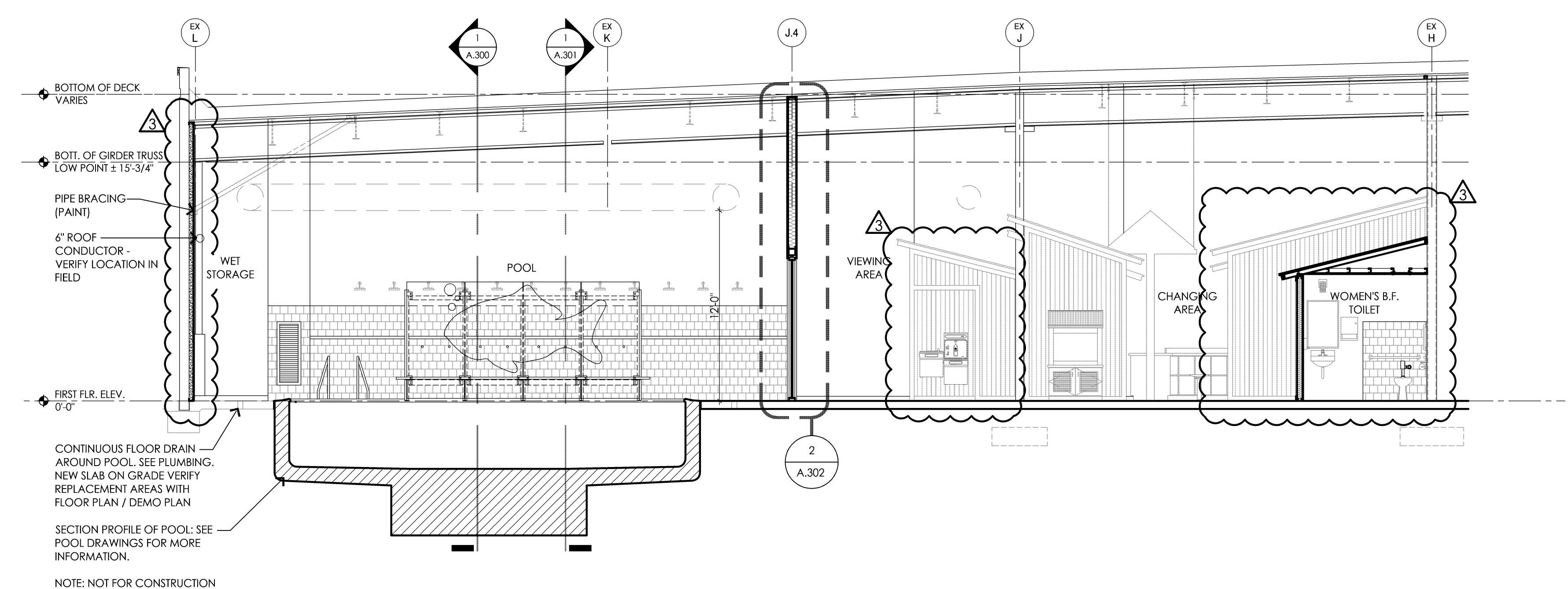
Goldfish Swim School  
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3500 South Meridian  
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Building Sections

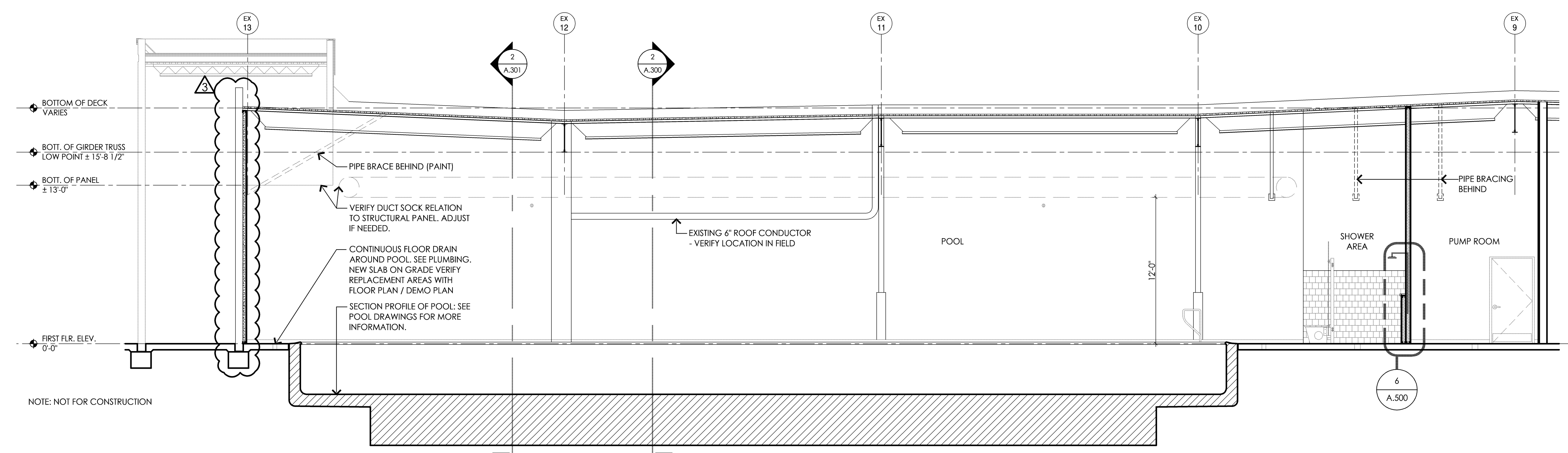
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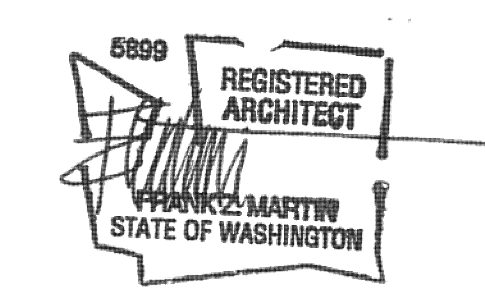


**2 Building Section**  
3/16" = 1'-0"  
A.100



**1 Building Section**  
3/16" = 1'-0"  
A.100

**PRCTI20221793**



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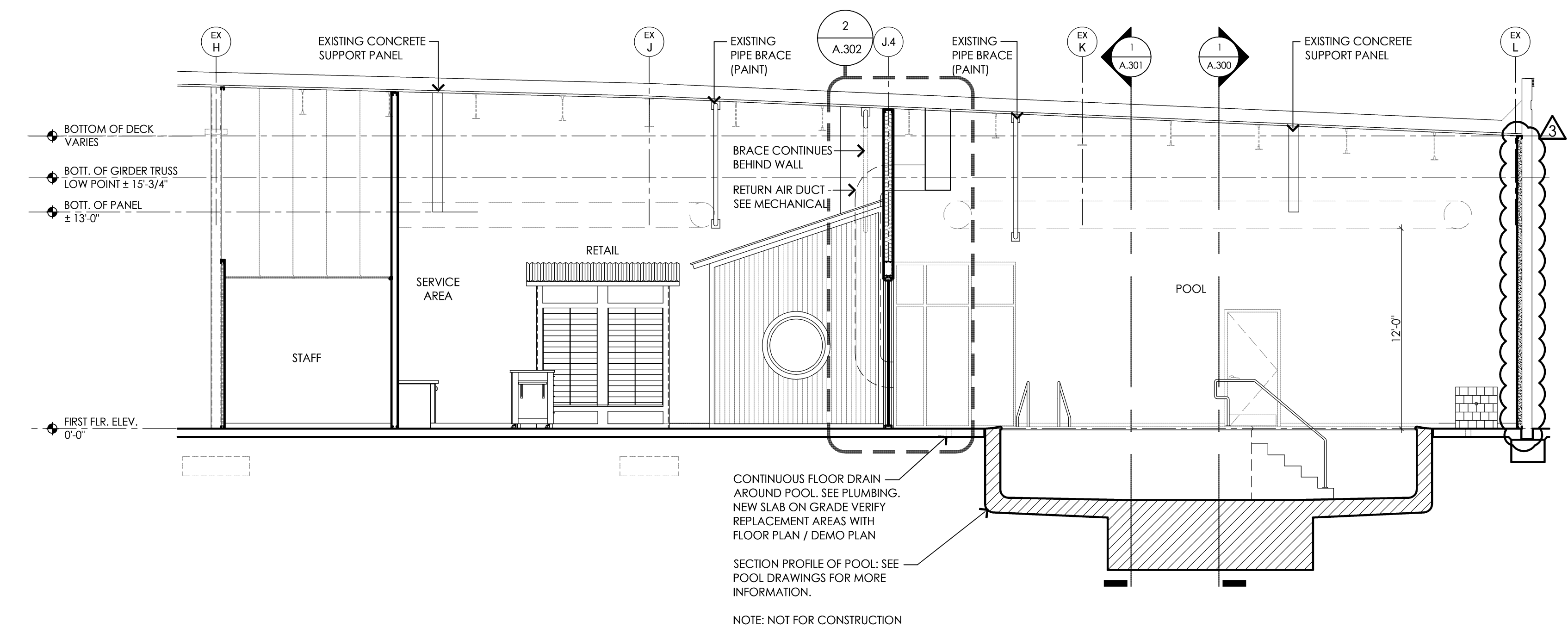
Goldfish Swim School  
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Building Sections

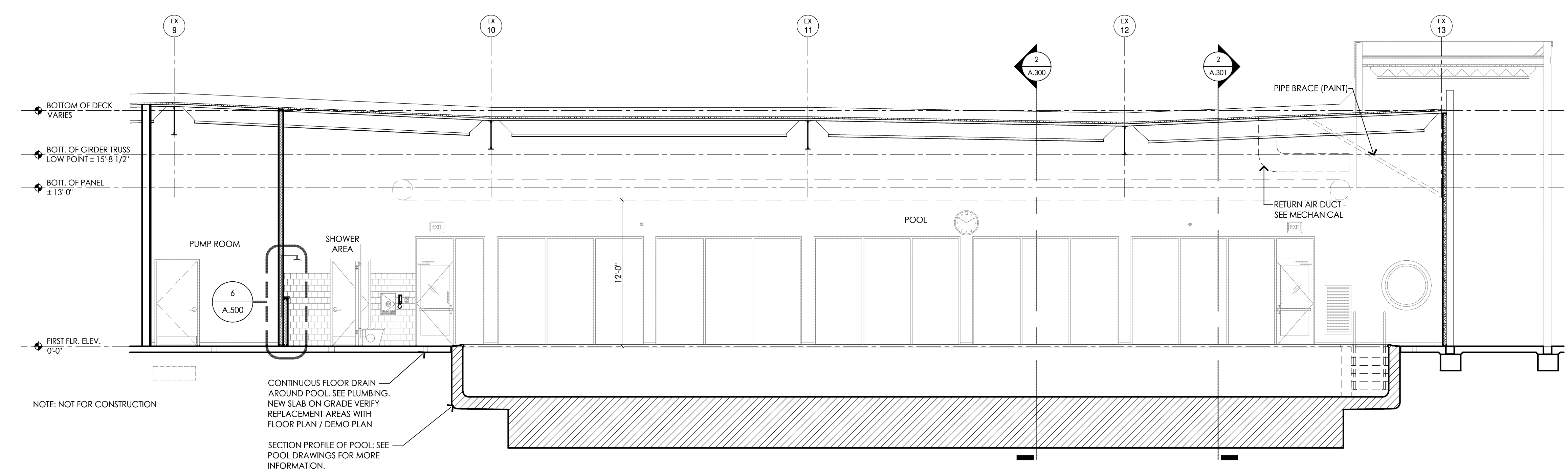
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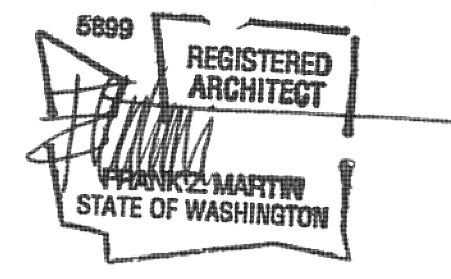


**2 Building Section**  
3/16" = 1'-0"  
A.100



**1 Building Section**  
3/16" = 1'-0"  
A.100

**PRCTI20221793**



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City of Puyallup  
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Engineering	Public Works
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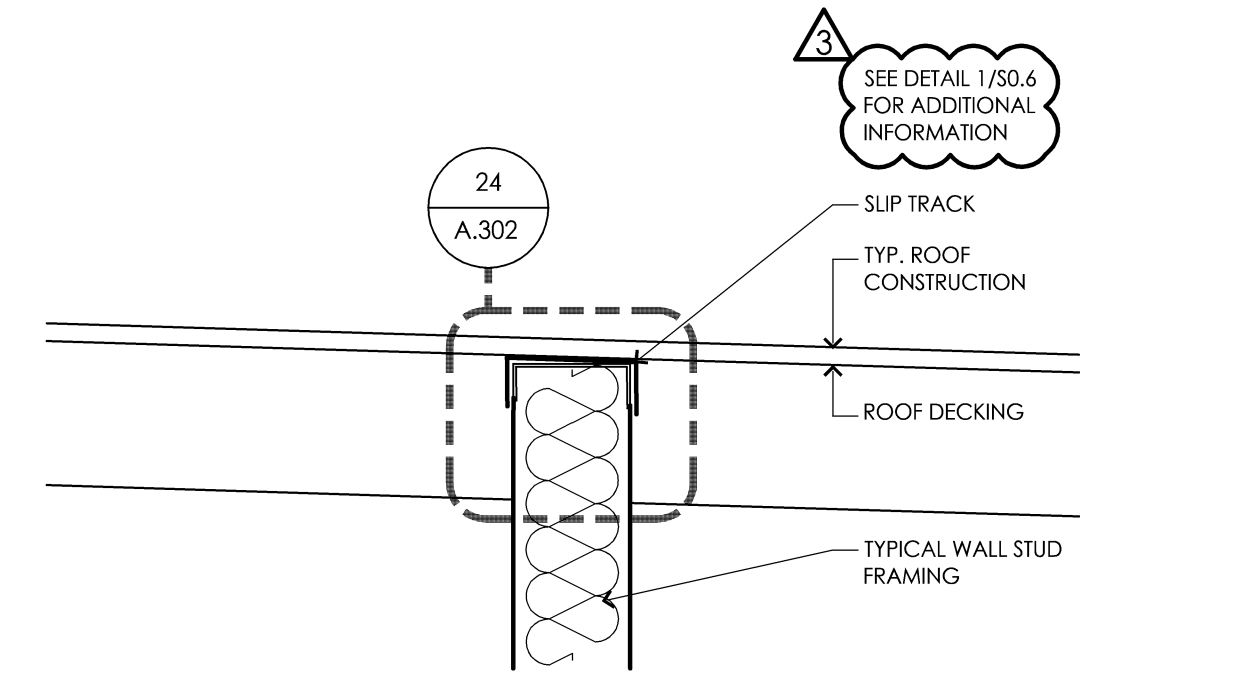
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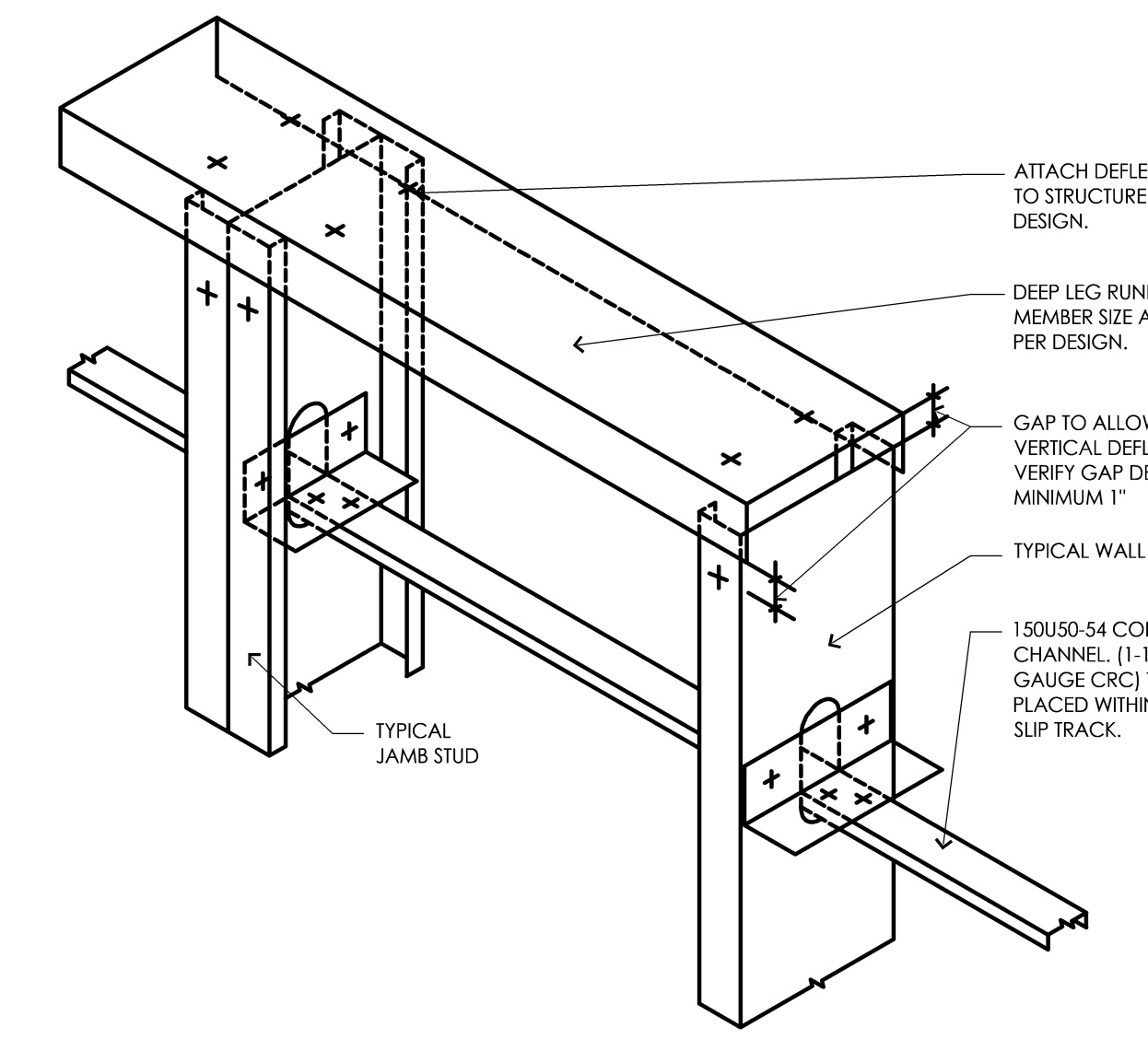
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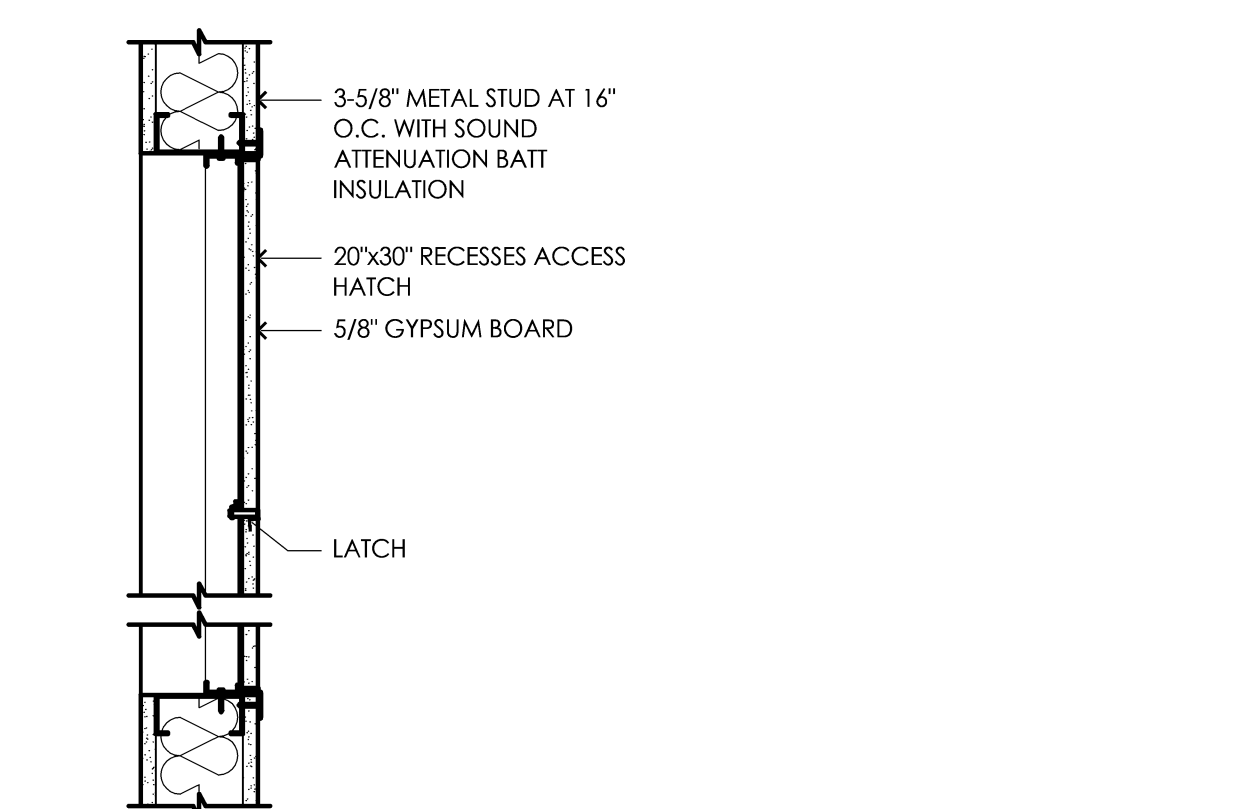
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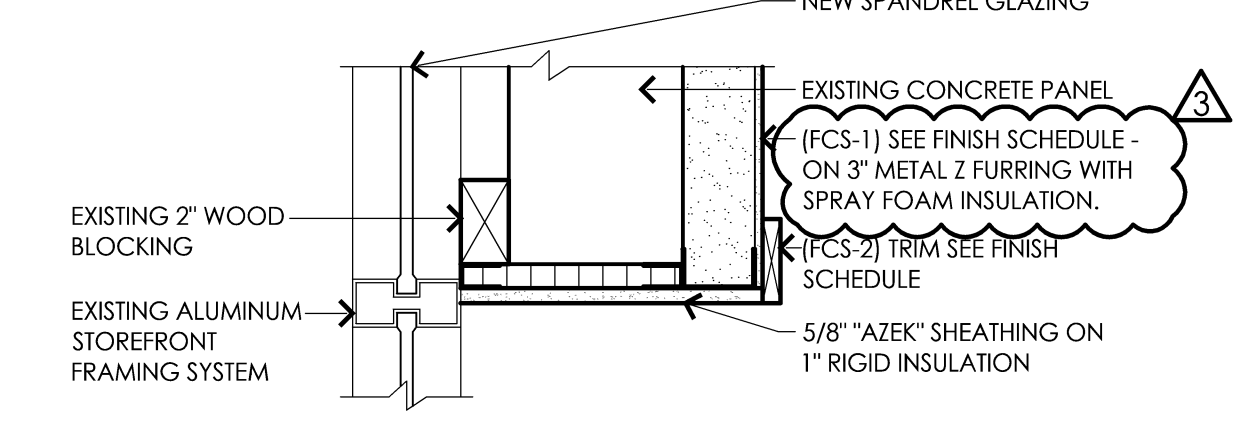
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A.302



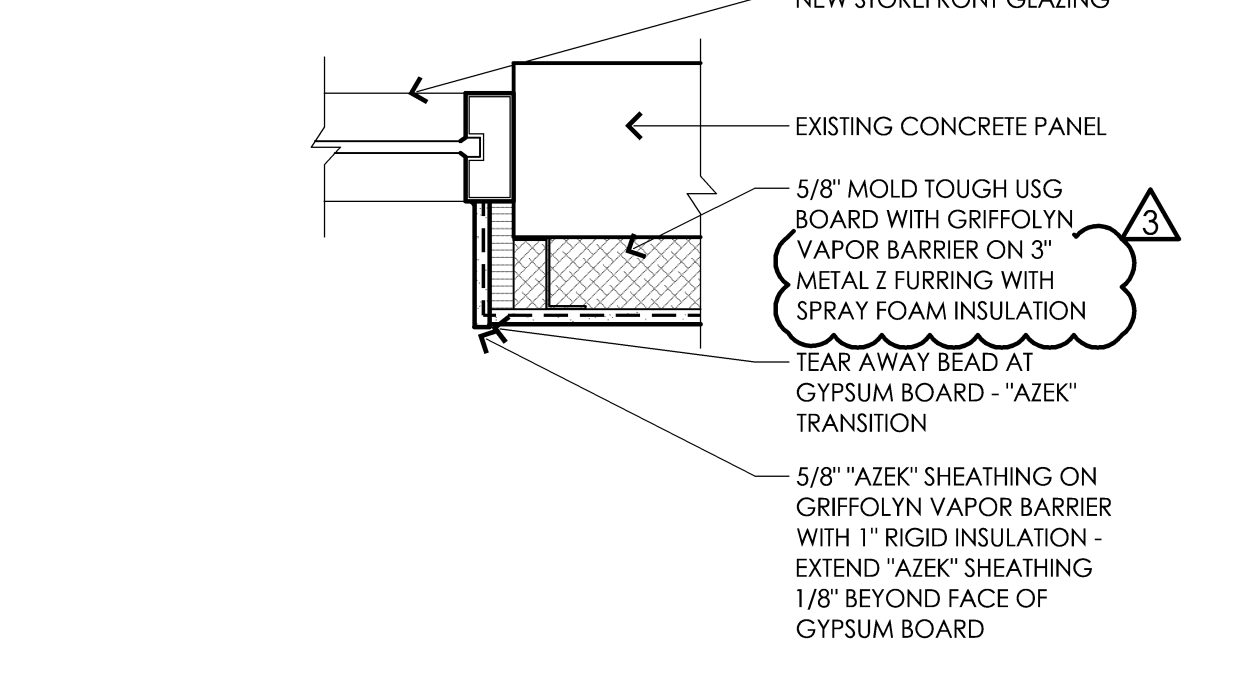
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A.302



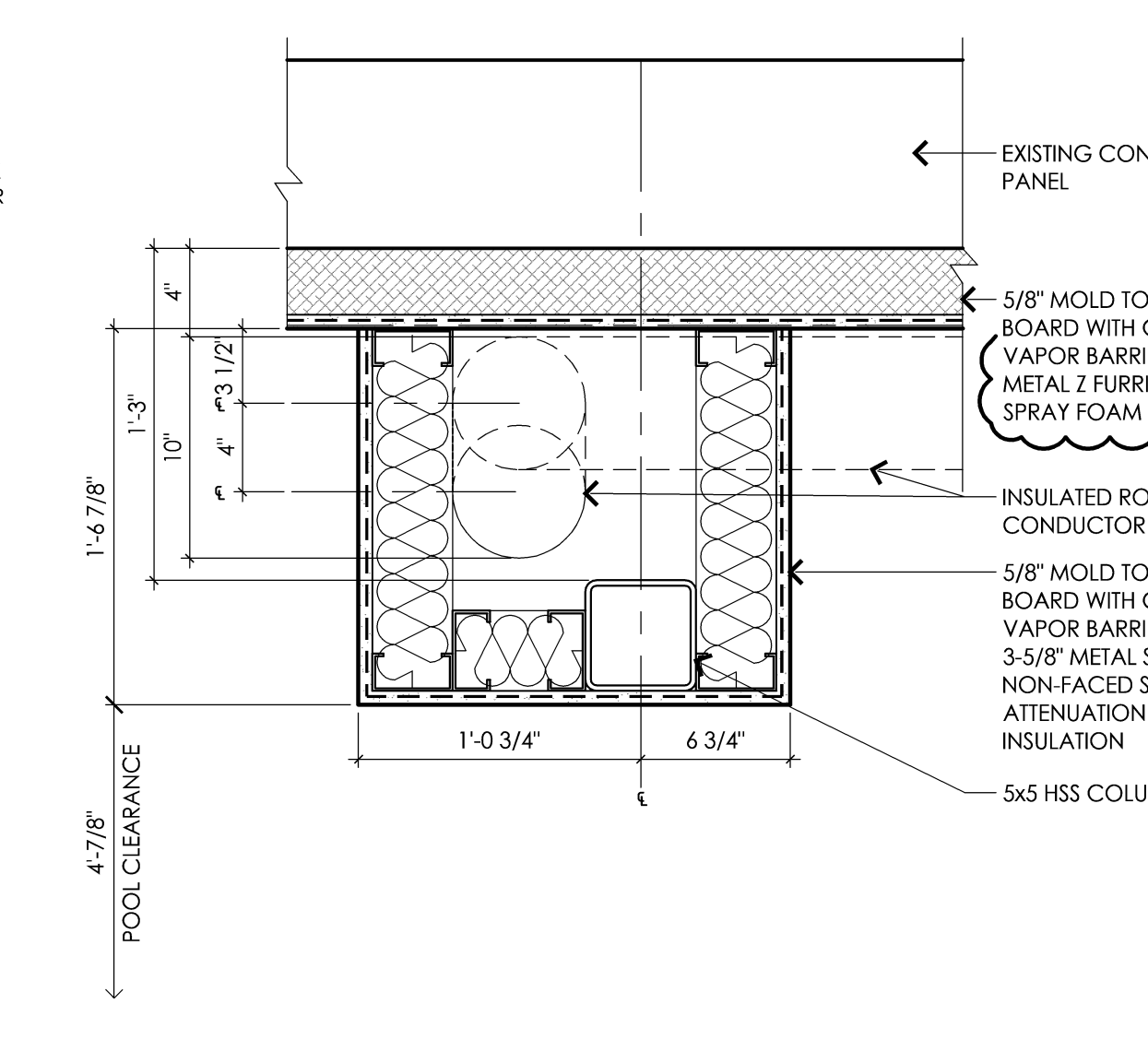
9 Section Thru Attic Access Hatch  
1 1/2" = 1'-0"  
A.503



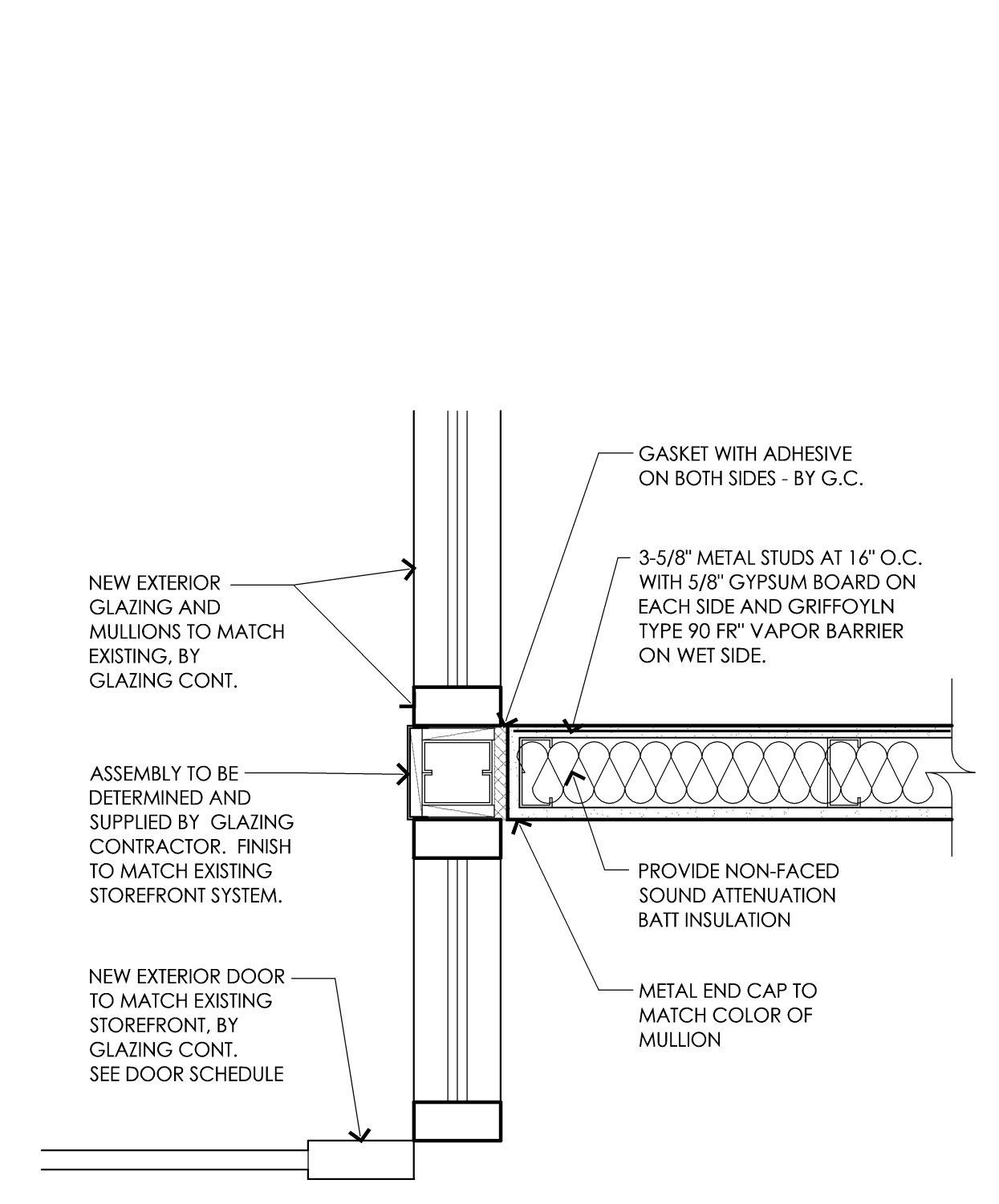
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1 1/2" = 1'-0"  
A.302



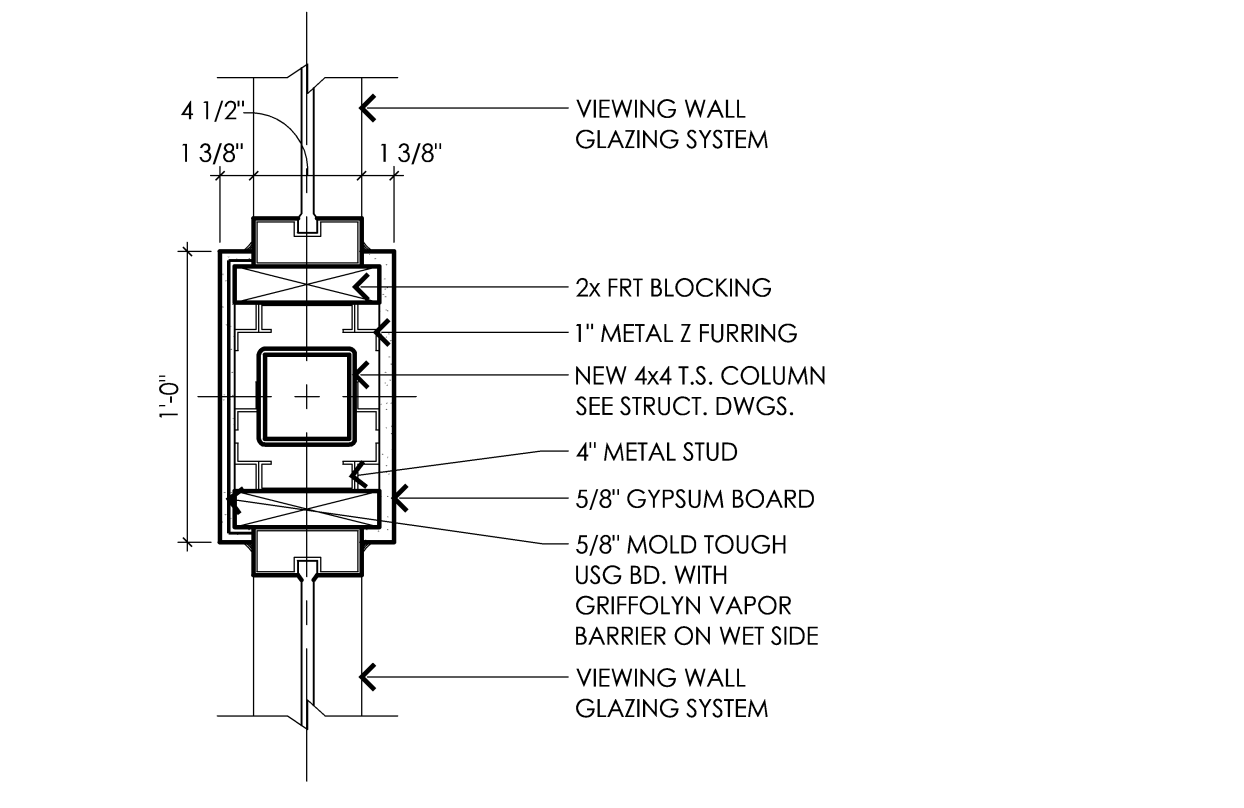
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A.100



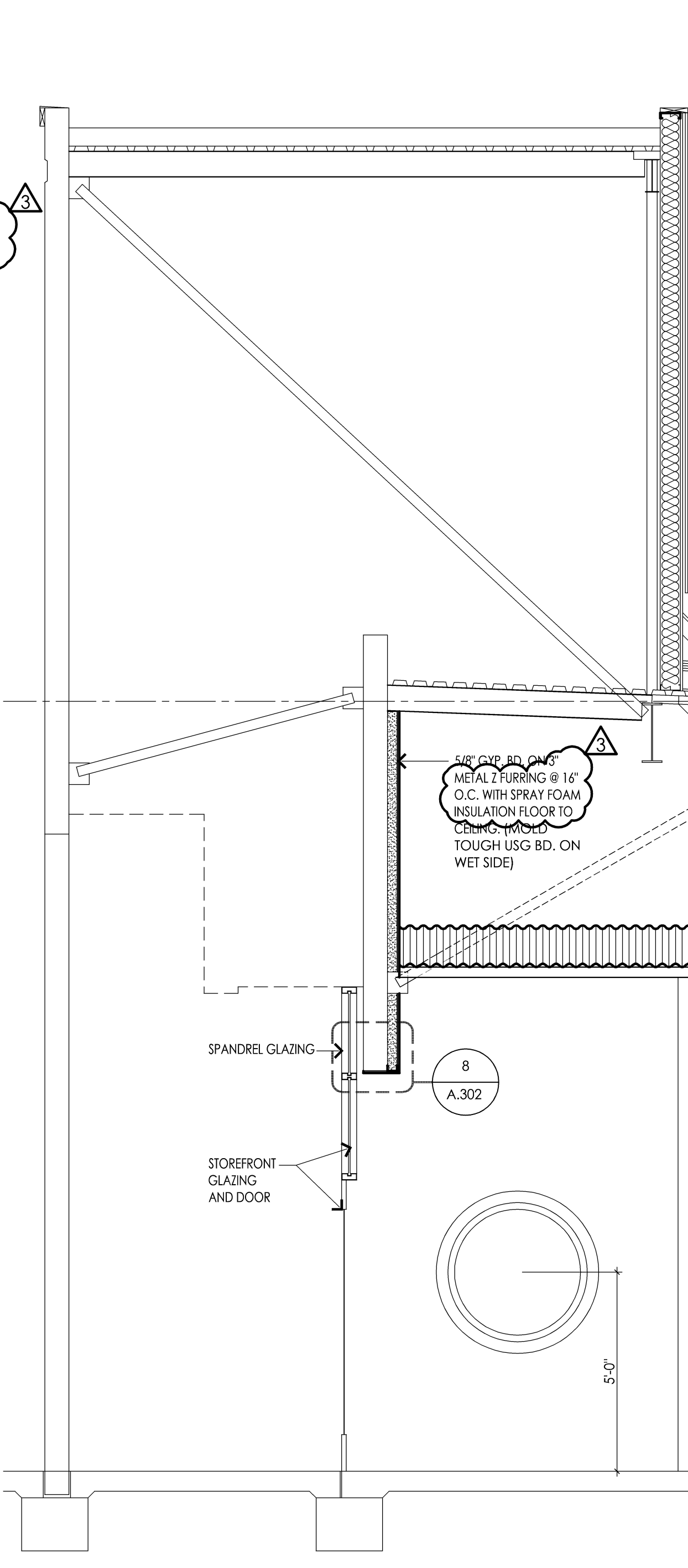
6 Roof Conductor Plan Detail  
1 1/2" = 1'-0"  
A.100



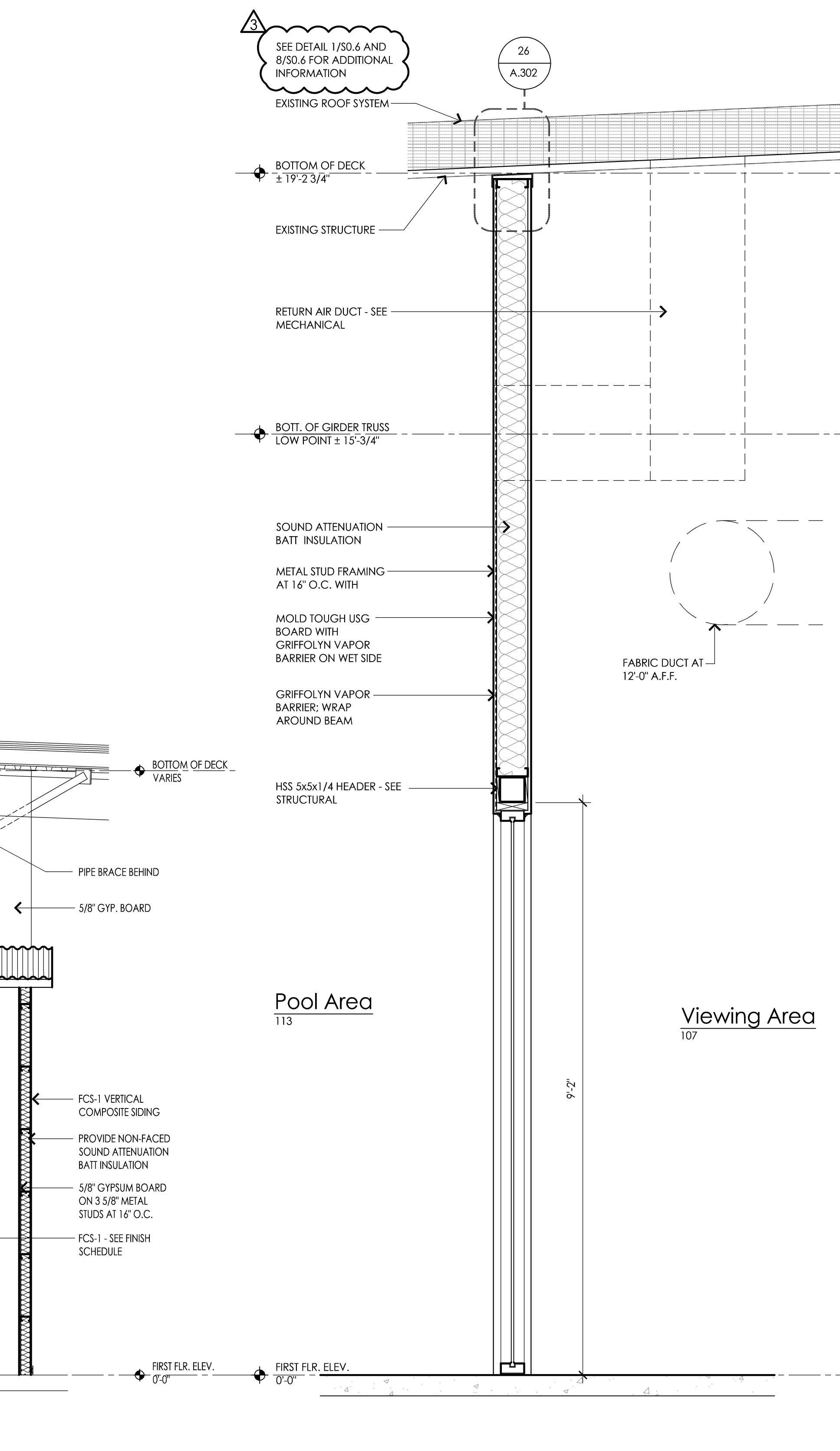
5 Wall at Mullion  
1 1/2" = 1'-0"  
A.100



4 Plan Section Thru Column  
1 1/2" = 1'-0"  
A.100



3 Section at Vestibule  
3/8" = 1'-0"  
A.100



2 Wall Section at Viewing Wall  
3/4" = 1'-0"  
A.300/A.301

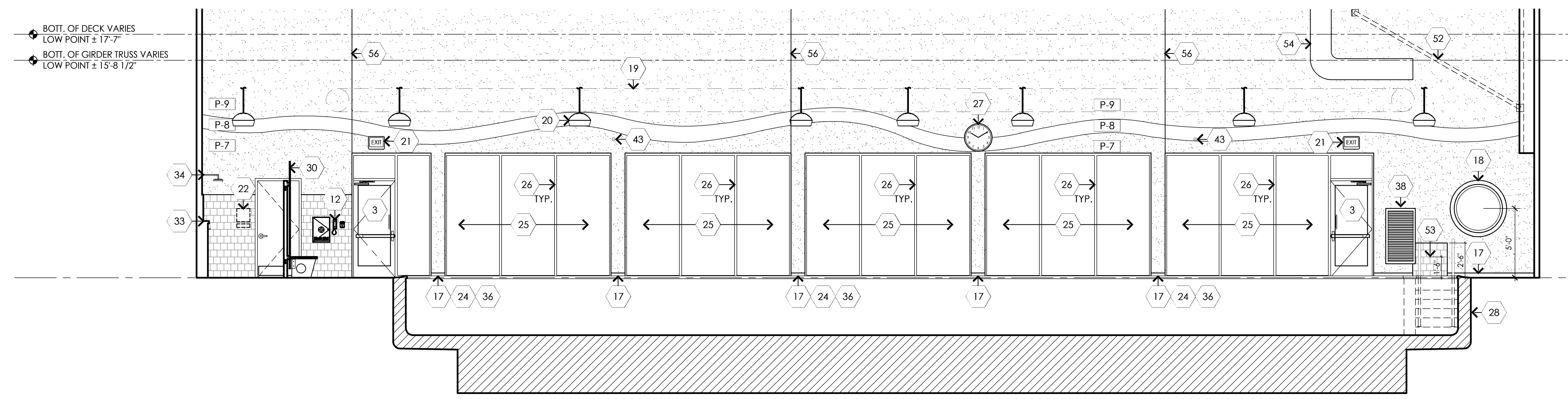
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**General Interior Elevation Notes:**

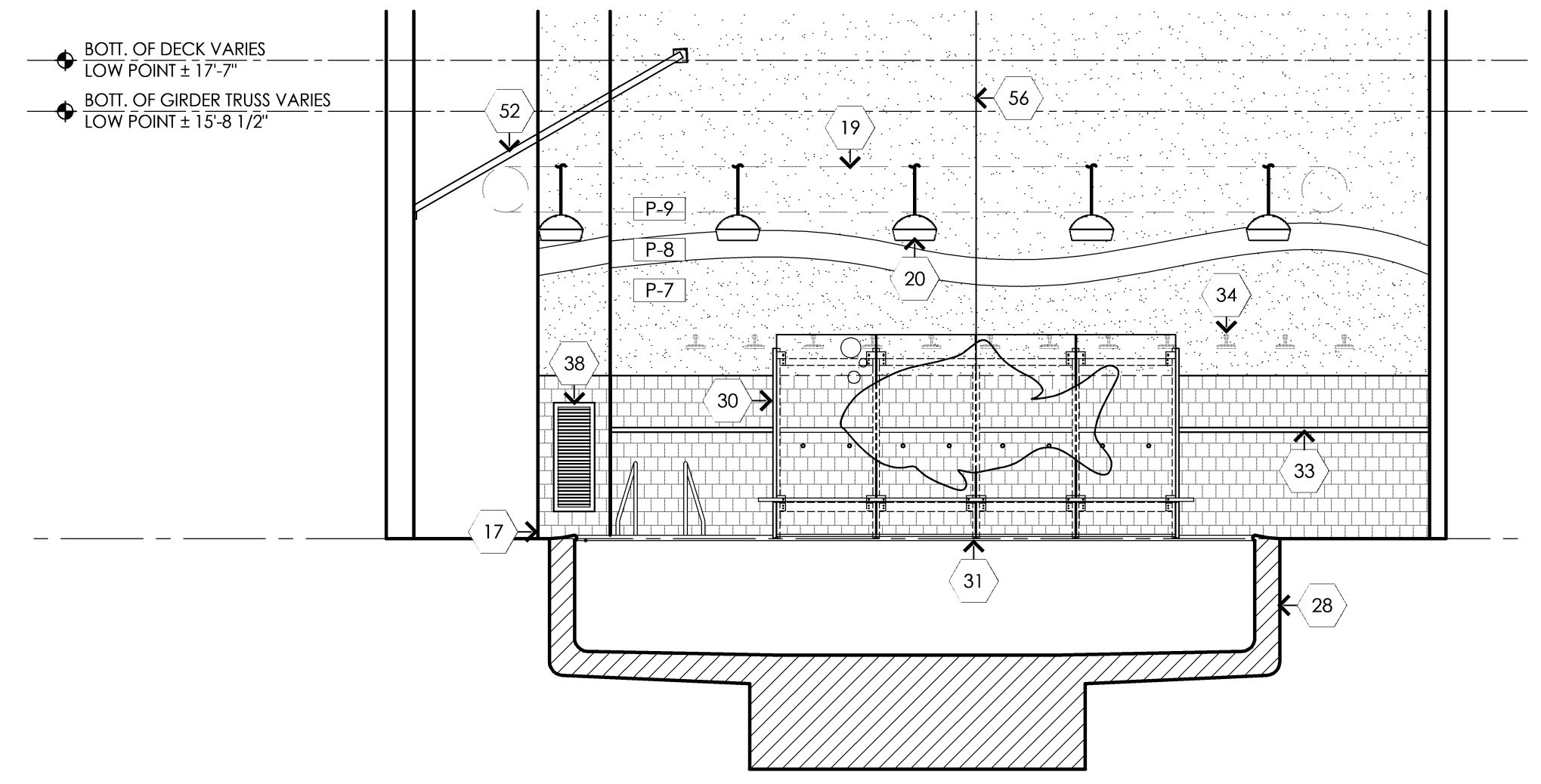
1. FINAL PAINT SCHEME / COLOR COMBINATIONS TO BE APPROVED BY OWNER / GSS PRIOR TO PAINTING. REFER TO PAINT MANUFACTURER'S PREPARATION SPECIFICATIONS FOR ALL SURFACES PROVIDED BY G.F.S.S.
2. DO NOT USE ANY SPLIT, CUT, DAMAGED, ETC. WOOD STUDS AT EXPOSED WALL CONSTRUCTION.
3. HARDIE PANELS ARE TO BE PROPERLY NAILED, FILLED, AND PAINTED. NO EXPOSED NAILS AT INTERIOR SIDE.
4. LAY-OUT OF PANELS TO BE REVIEWED BY GSS CONSTRUCTION ADVISOR PRIOR TO INSTALLATION.
5. ALL HARDIBOARD TRIM AND PANELS TO BE ORDERED IN 10' LENGTHS TO AVOID HORIZONTAL JOINTS.
6. REFER TO MOUNTING HEIGHTS SCHEDULE ON SHEET A7/01 FOR DIMENSIONS OF WALL MOUNTED POOL TOY SUPPORT BRACKETS, ACCESSORIES, ETC....
7. ADD RUBBER BASE TO ALL OSR SUPPLIED ITEMS INCLUDING: BACK SERVICE COUNTER, HAIR DRIER STATION, DIAPER CHANGING STATION, FISHTANK, AND ALL CUBBIES.
8. PROVIDE BLOCKING AS REQUIRED FOR ALL WALL-MOUNTED ITEMS, INCLUDING POOL TOYS. [TYP.]
9. DOOR AND TRIM PAINT COLORS TO MATCH INSIDE AND OUTSIDE.

**Interior Elevation Keyed Notes:**

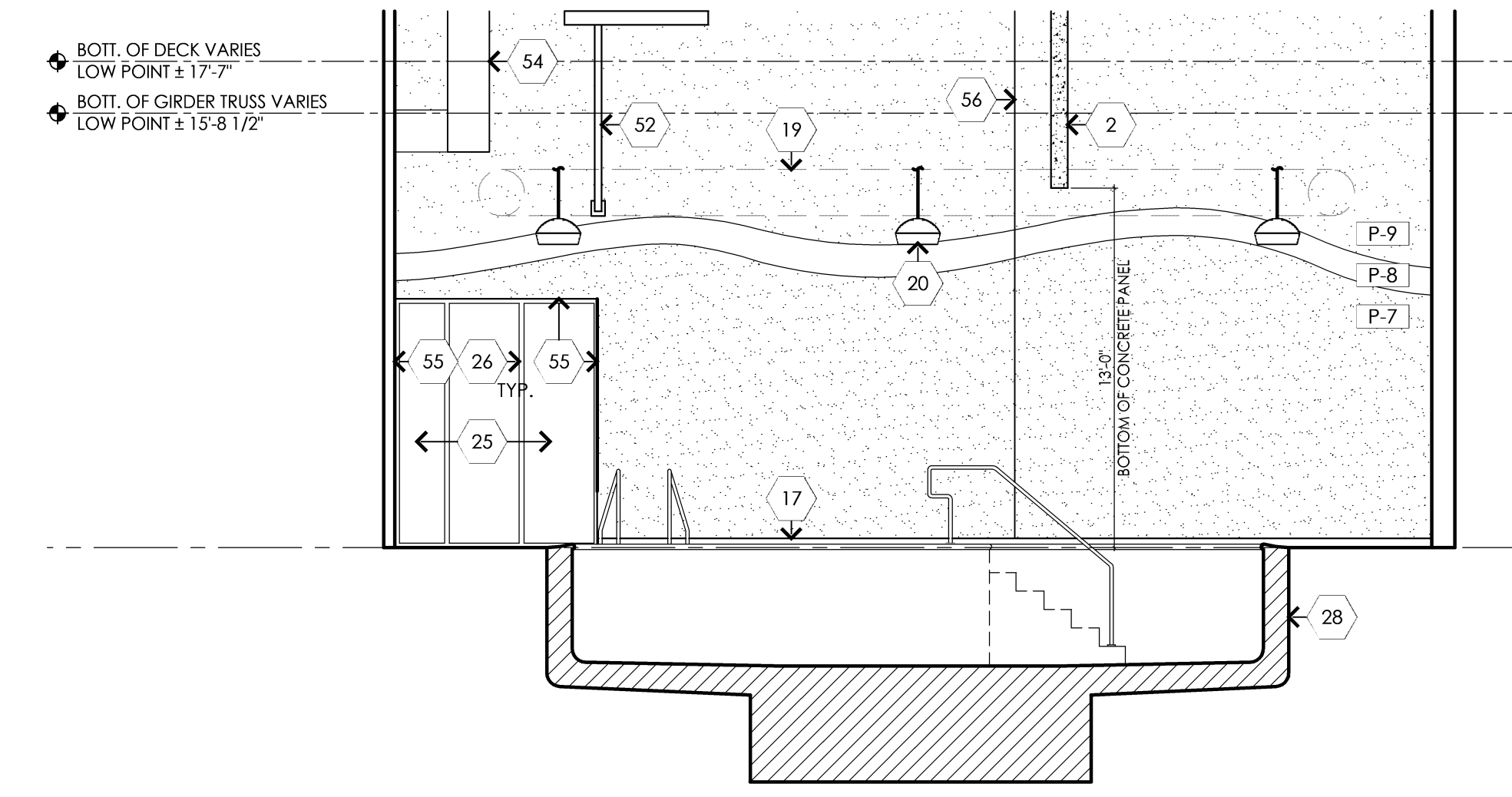
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4. NEW CORIAN SILL. (NOT USED)
5. HALF-ROUND BAMBOO ANCHORED TO WALL BEYOND. BAMBOO IS TO BE DESIGNED AND SUPPLIED BY ONE SOURCE RETAIL AND INSTALLED BY G.C. - PROVIDE WOOD BLOCKING AT 24" O.C. VERTICAL AS REQUIRED. TRIM PANELS TO FINAL LENGTH BASED ON DIMENSIONS FROM ONE SOURCE RETAIL
6. O.S.R. SUPPLIED SERVICE KIOSK AND BACK COUNTER - SEE SHOP DRAWINGS PROVIDED BY O.S.R. FOR MORE INFORMATION - INSTALLED BY G.C.
7. O.S.R. SUPPLIED CUBBIES.
8. CHANGING HUT ELEVATIONS, NOTES, AND PAINT DESIGNATIONS TO BE LOCATED ON SHEETS A.603, A.604, AND A.605 VERIFY ALL PAINT COLORS WITH OWNER.
9. WALL MOUNTED "SUITMATE" SPINNER WITH WALL DRAIN - REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFO. PROVIDE BLOCKING AS REQUIRED.
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13. CORRUGATED ROOFING ON "TRI" WOOD RAFTERS AT 16" O.C. - MIL-1 [TYP.].
14. VERTICAL PANELS - FCS-1 [TYP.] [PAINT]
15. WALL BASE - B-1 [TYP.] [PAINT]
16. TRIM - FCS-2 [TYP.] [PAINT]
17. VINYL WALL BASE [B-2] - SEE FINISH SCHEDULE FOR MORE INFORMATION.
18. NEW ROUND 42"Ø CLEAR TEMP. GLASS WOOD WINDOW, "JELOWEN - SITELINE SERIES "EW42FRDS" OR APPROVED EQUAL. GLAZING CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ARCHITECT FOR FINAL APPROVAL PRIOR TO FINAL ORDER. INSTALL ONE-WAY FILM TO ONE SIDE IN OFFICE.
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36. NEW COLUMN BOX-OUT WITH 5/8" GYPSUM BOARD PANELS ON (20 GAUGE) STEEL STUDS AT COLUMN CORNERS. JOINTS FINISHED. PROVIDE MOLD THROUGH BOARD, VAPOR BARRIER AND BATT INSULATION ON POOL SIDE [TYP.] WRAP COLUMN WITH VAPOR BARRIER.
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42. PROVIDE F.R.P. BOARD BEHIND DRINKING FOUNTAINS/BOTTLE FILLER 5'-0" HIGH X 4'-0" WIDE.
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46. BARRIER FREE BOTTLE FILLER - SEE MECHANICAL DOCUMENTS FOR FURTHER INFORMATION. [NOT USED]
47. CHALK BOARD: VERIFY FINAL DIMENSION AND PLACEMENT WITH OWNER. [NOT USED]
48. MAGNETIC BOARD WITH BAMBOO TRIM VERIFY FINAL PLACEMENT AND SIZE WITH OWNER. (IF NO BAMBOO TRIM USE PAINTED HARDIE TRIM)
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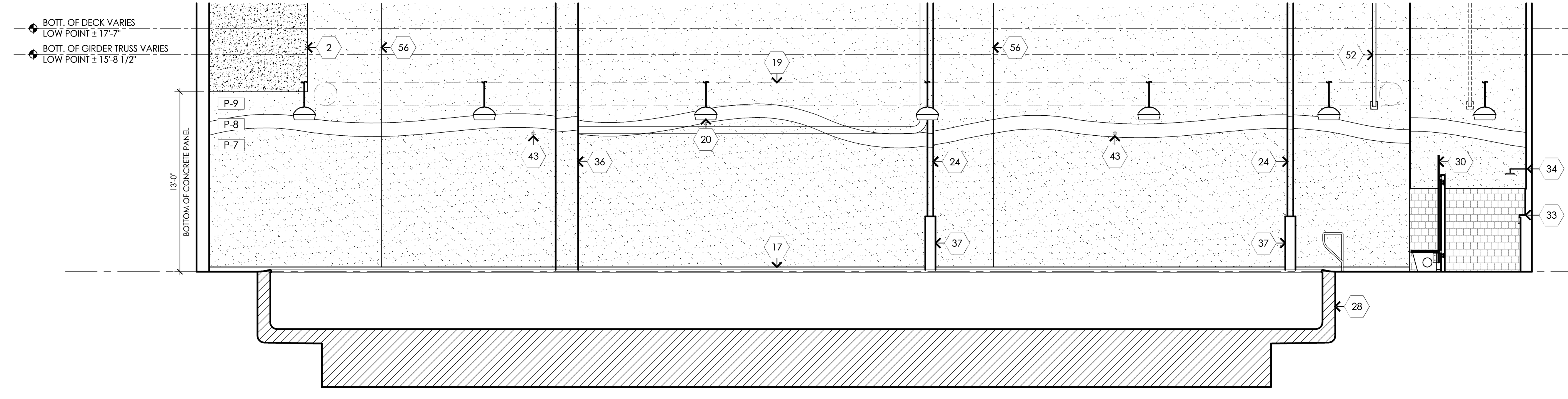
**4 Interior Elevation**  
3/16" = 1'-0"  
A.100



**2 Interior Elevation**  
3/16" = 1'-0"  
A.100



**3 Interior Elevation**  
3/16" = 1'-0"  
A.100



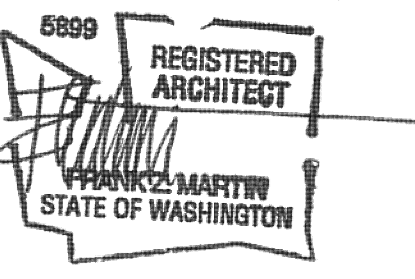
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3/16" = 1'-0"  
A.100

**PRCTI20221793**

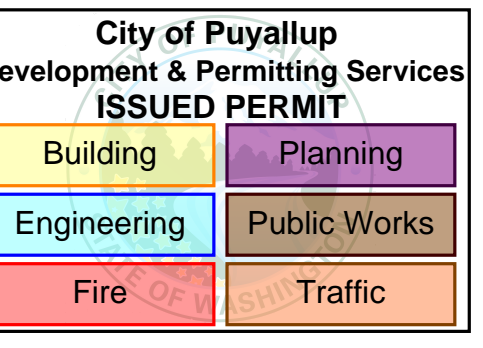
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Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

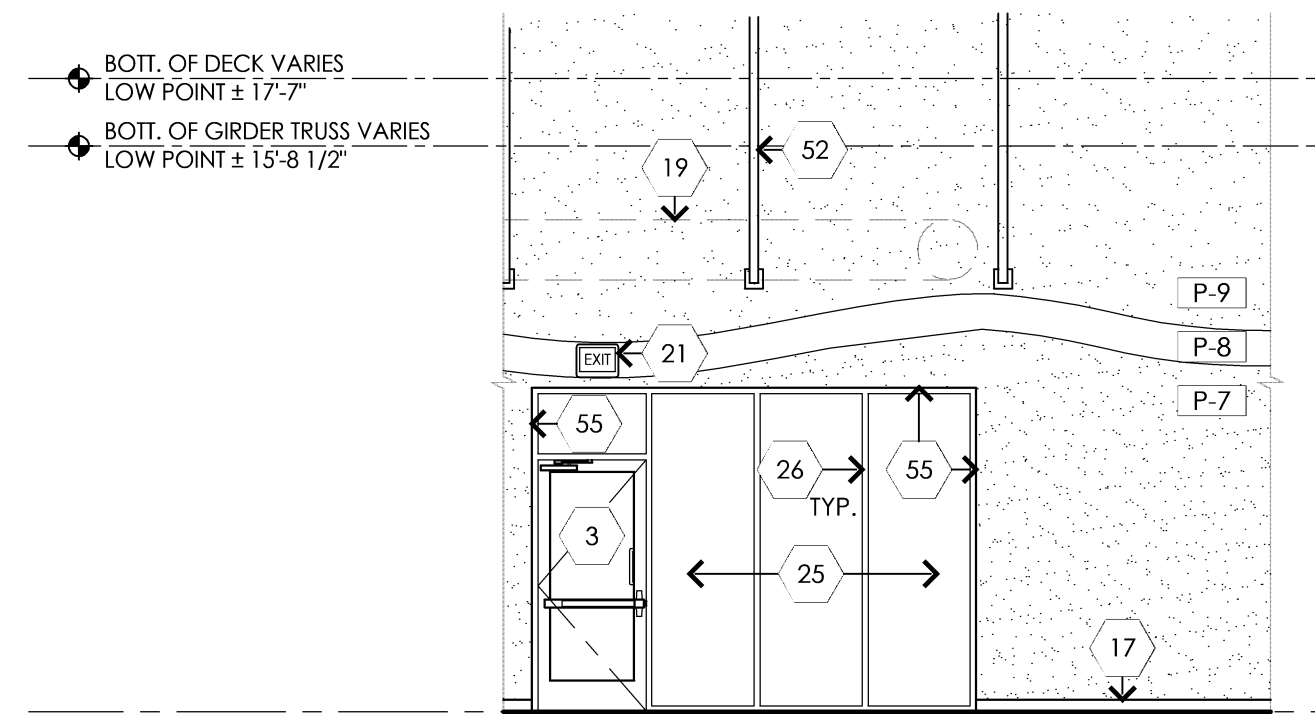
Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

Interior Elevations

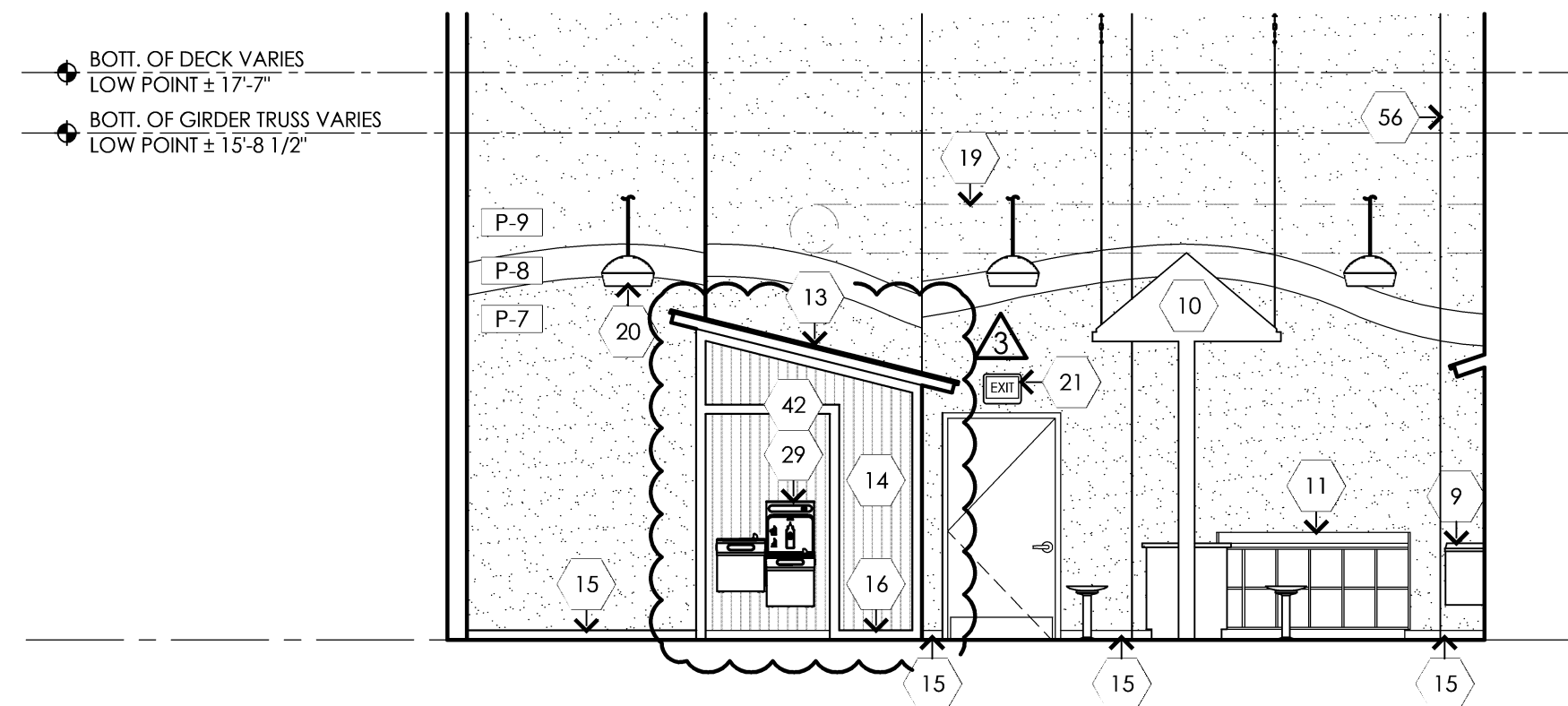
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**dma**  
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Dorchen/Martin Associates, Inc.  
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29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
www.dorchenmartin.com

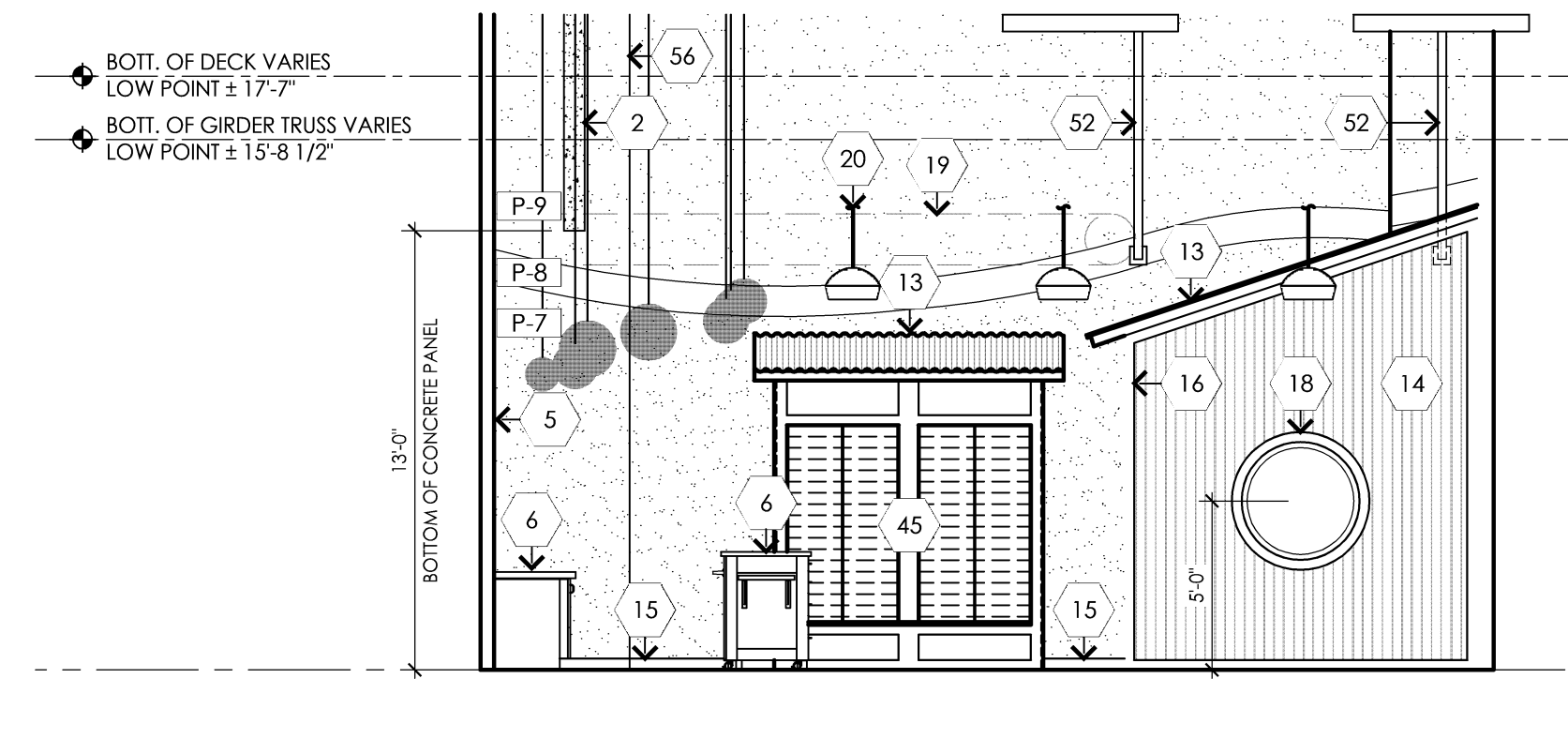
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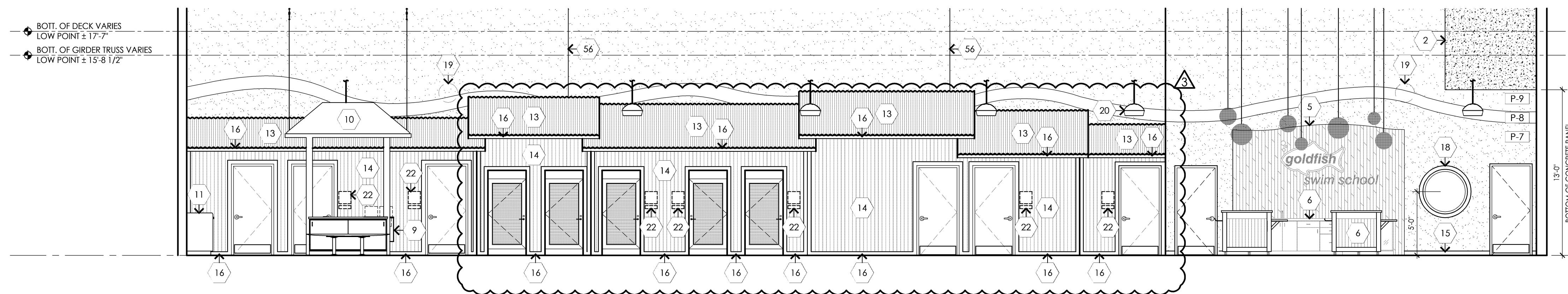
**5** Partial Interior Elevation  
3/16" = 1'-0"  
A.100



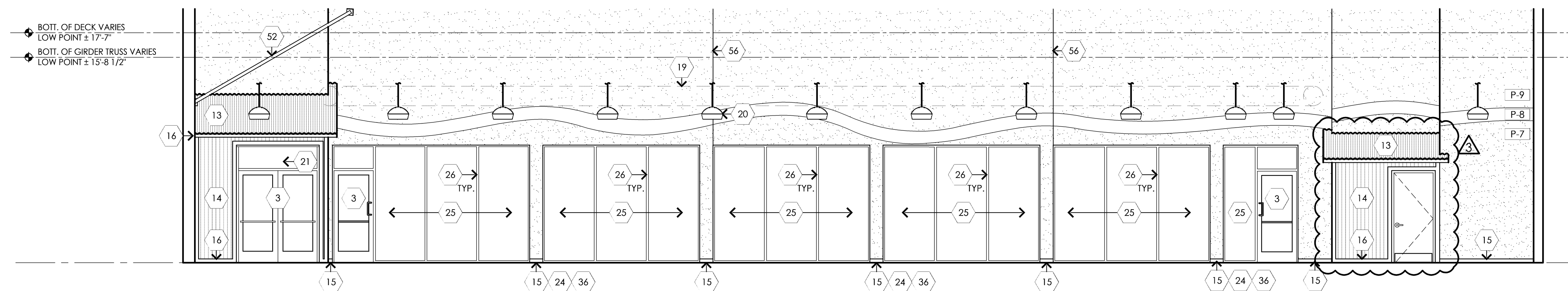
**3** Interior Elevation  
3/16" = 1'-0"  
A.100



**4** Interior Elevation  
3/16" = 1'-0"  
A.100



**2** Interior Elevation  
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A.100



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A.100

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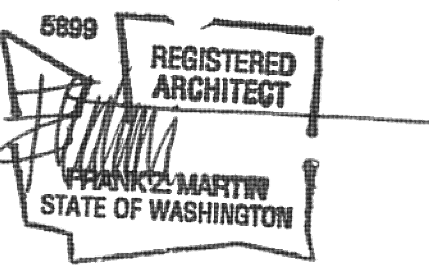
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Building	Planning
Engineering	Public Works
Fire	Traffic

Client

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H&H Swim School  
Puyallup, WA  
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drawn by

checked by

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
Interior Elevations

project: sheet title:



DORCHEN / MARTIN

Dorchen/Martin Associates, Inc.  
Architects/Planners  
29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
www.dorchenmartin.com

job number sheet number

22006 A.401

PRCTI20221793

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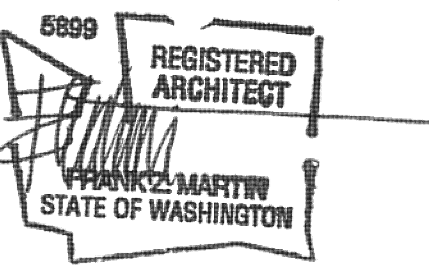
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**Interior Elevation Keyed Notes:**

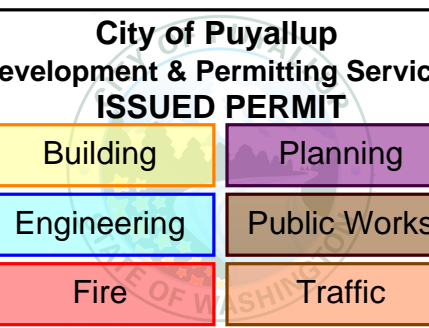
- PAINT EXISTING STRUCTURE AND UNDERSIDE OF EXISTING ROOF DECK (TYP.).
- EXISTING CONCRETE PANEL (PAINT TO MATCH ADJACENT COLOR) - SEE SECTIONS
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- O.S.R. SUPPLIED SERVICE KIOSK AND BACK COUNTER - SEE SHOP DRAWINGS PROVIDED BY O.S.R. FOR MORE INFORMATION - INSTALLED BY G.C.
- O.S.R. SUPPLIED CUBBIES.
- CHANGING HUT ELEVATIONS, NOTES, AND PAINT DESIGNATIONS TO BE LOCATED ON SHEETS A.603, A.604, AND A.605 VERIFY ALL PAINT COLORS WITH OWNER.
- WALL MOUNTED "SUIMATE" SPINNER WITH WALL DRAIN - REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFO. PROVIDE BLOCKING AS REQUIRED.
- O.S.R. SUPPLIED HAIR DRIER STATION - SEE SHOP DRAWINGS PROVIDED BY O.S.R. FOR MORE INFORMATION (SHOWN FOR REFERENCE ONLY).
- O.S.R. SUPPLIED CHANGING STATION WITH CUBBIES BELOW - SEE SHOP DRAWINGS PROVIDED BY O.S.R. FOR MORE INFORMATION.
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- VERTICAL PANELS - FCS-1 (TYP.) (PAINT)
- WALL BASE - B-1 (TYP.) (PAINT)
- TRIM - FCS-2 (TYP.) (PAINT)
- VINYL WALL BASE (B-2) - SEE FINISH SCHEDULE FOR MORE INFORMATION.
- NEW ROUND 42" CLEAR TEMP. GLASS WOOD WINDOW, "JELDOWEN" SITELINE SERIES "EW42FRDS" OR APPROVED EQUAL. GLAZING CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ARCHITECT FOR FINAL APPROVAL PRIOR TO FINAL ORDER. INSTALL ONE-WAY FILM TO ONE SIDE IN OFFICE.
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- CEILING MOUNTED LIGHT FIXTURE - REFER TO REFLECTED CEILING PLANS / ELECTRICAL DRAWINGS BY MEP ENGINEER FOR MOUNTING HEIGHTS AND ADDITIONAL INFORMATION.
- EXIT/EMERGENCY LIGHT FIXTURE - SEE ELECTRICAL DOCUMENTS FOR MOUNTING HEIGHTS AND FURTHER INFORMATION. PROVIDE IN-WALL BLOCKING AS REQUIRED.
- WALL MOUNTED SIGNAGE - REFER TO SHEET A.701 FOR FURTHER INFORMATION.
- [1] STRUCTURAL HEADER - REFER STRUCTURAL SHEETS FOR FURTHER INFO. PROVIDE 2X "FRIT" (CLEAR) WOOD BLOCKING AS REQUIRED.
- NEW HSS COLUMN - SEE STRUCTURAL
- 3/8" CLEAR TEMPERED GLASS IN CLEAR ANODIZED ALUMINUM FRAMES - CAULK ALL AROUND BOTH SIDES (TYP.).
- 2' X 4-1/2" STOREFRONT VERTICAL FRAMES AS SHOWN.
- OWNER SUPPLIED WALL MOUNTED BATTERY OPERATED CLOCK. COORDINATE EXACT MOUNTING LOCATIONS WITH OWNER - PROVIDE IN WALL BLOCKING AS REQUIRED FOR PROPER ATTACHMENT.
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- BARRIER FREE ELECTRICAL WATER COOLER - SEE MECHANICAL DOCUMENTS FOR FURTHER INFORMATION.
- O.S.R. PROVIDED SHOWER AREA BENCH / GLASS WALL - SEE SHEET A.500 FOR MORE INFORMATION.
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- PROVIDE F.R.P. BOARD BEHIND DRINKING FOUNTAINS/BOTTLE FILLER 5'-0" HIGH X 4'-0" WIDE.
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- RIBBON STATION: MOUNT 4'-2" A.F.F. TO BOTTOM OF FIXTURE.
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- PAINT AIR DUCT - SEE FINISH SCHEDULE
- \*AZEK\* SHEATHING - SEE DETAIL 7/A.302
- CONTROL JOINT

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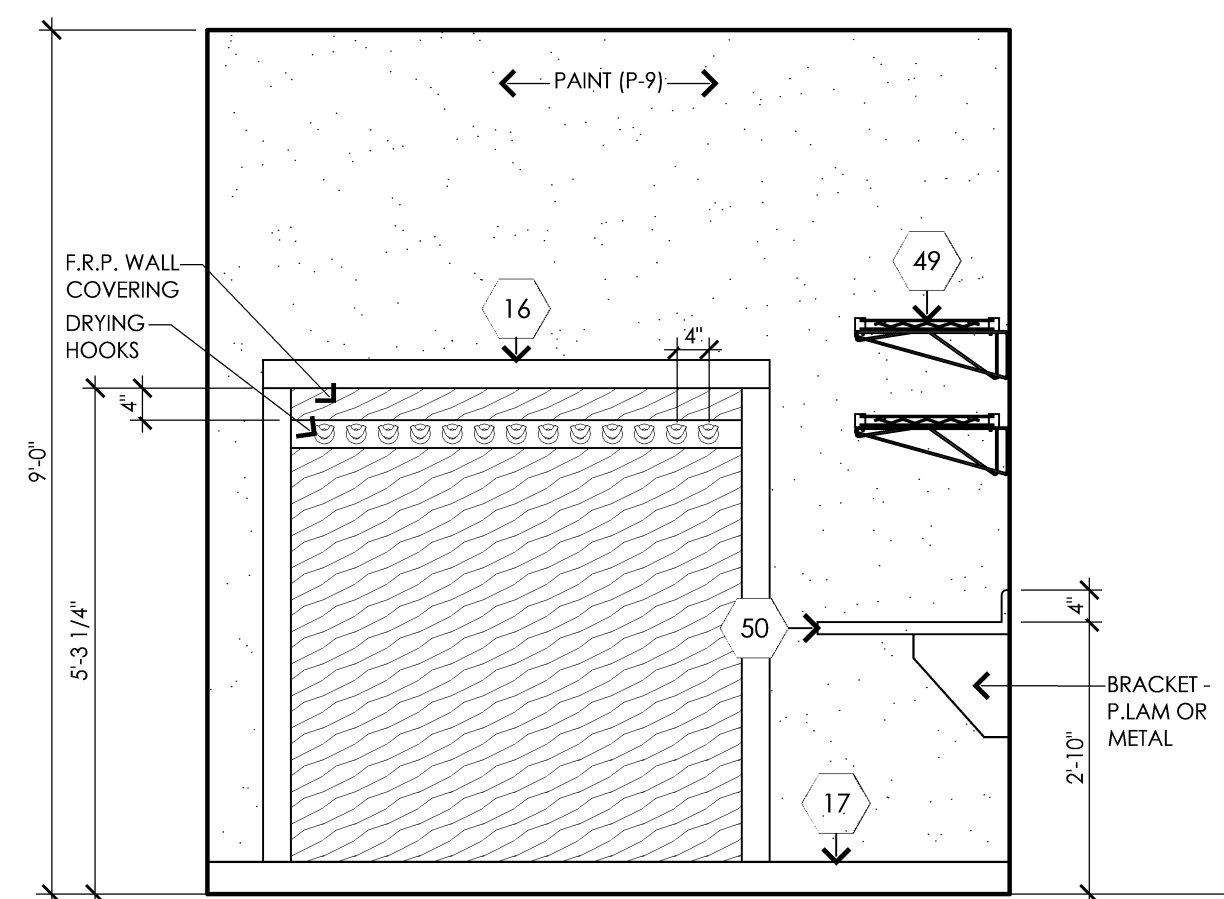
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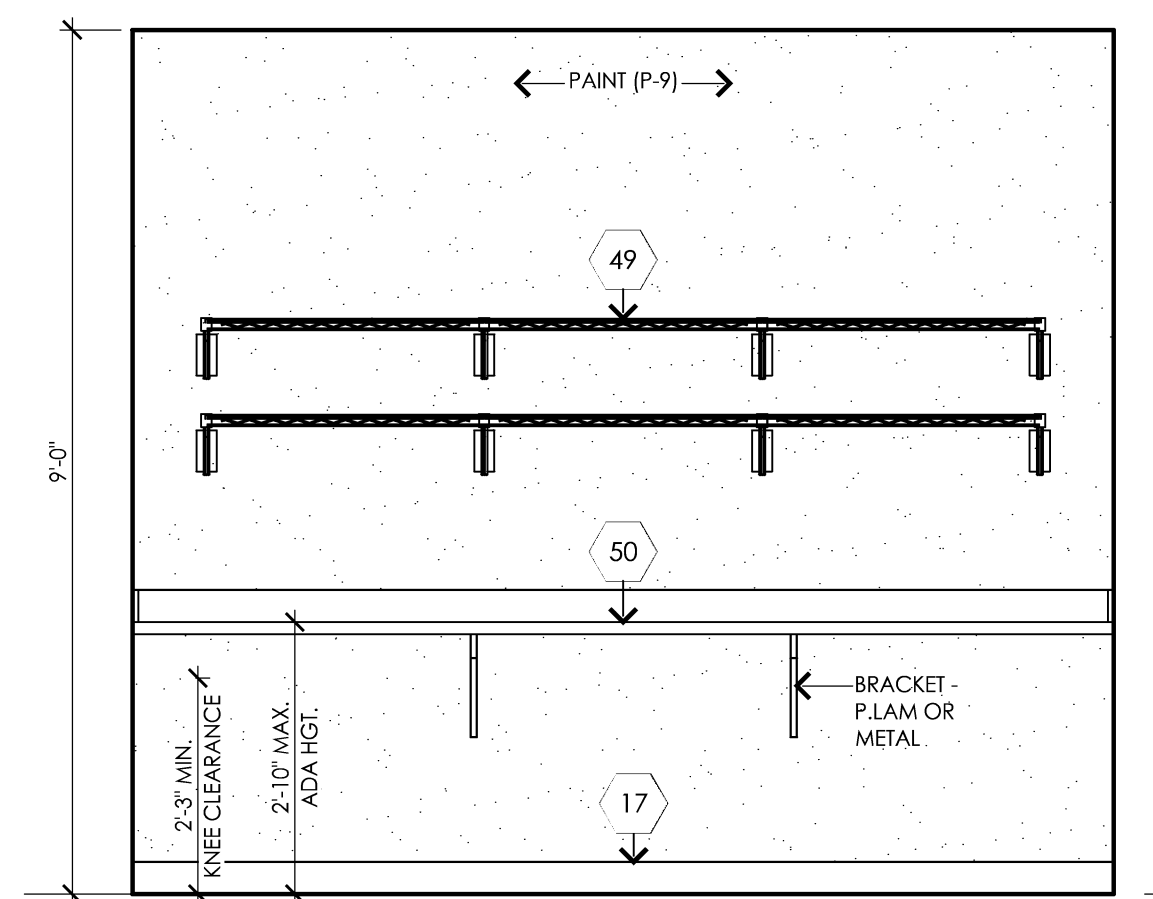
Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
Interior Elevations  
project: \_\_\_\_\_ sheet title: \_\_\_\_\_

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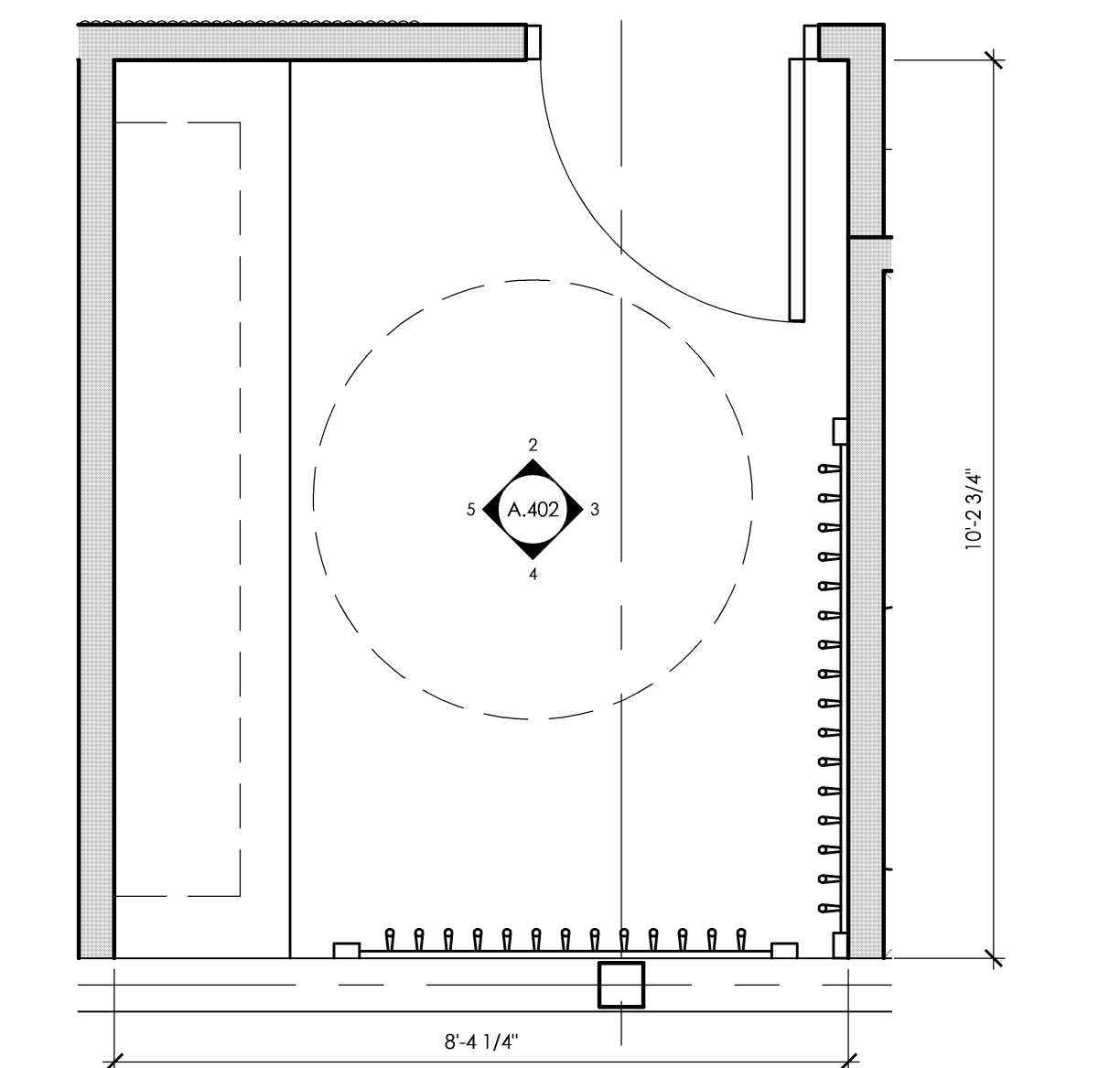
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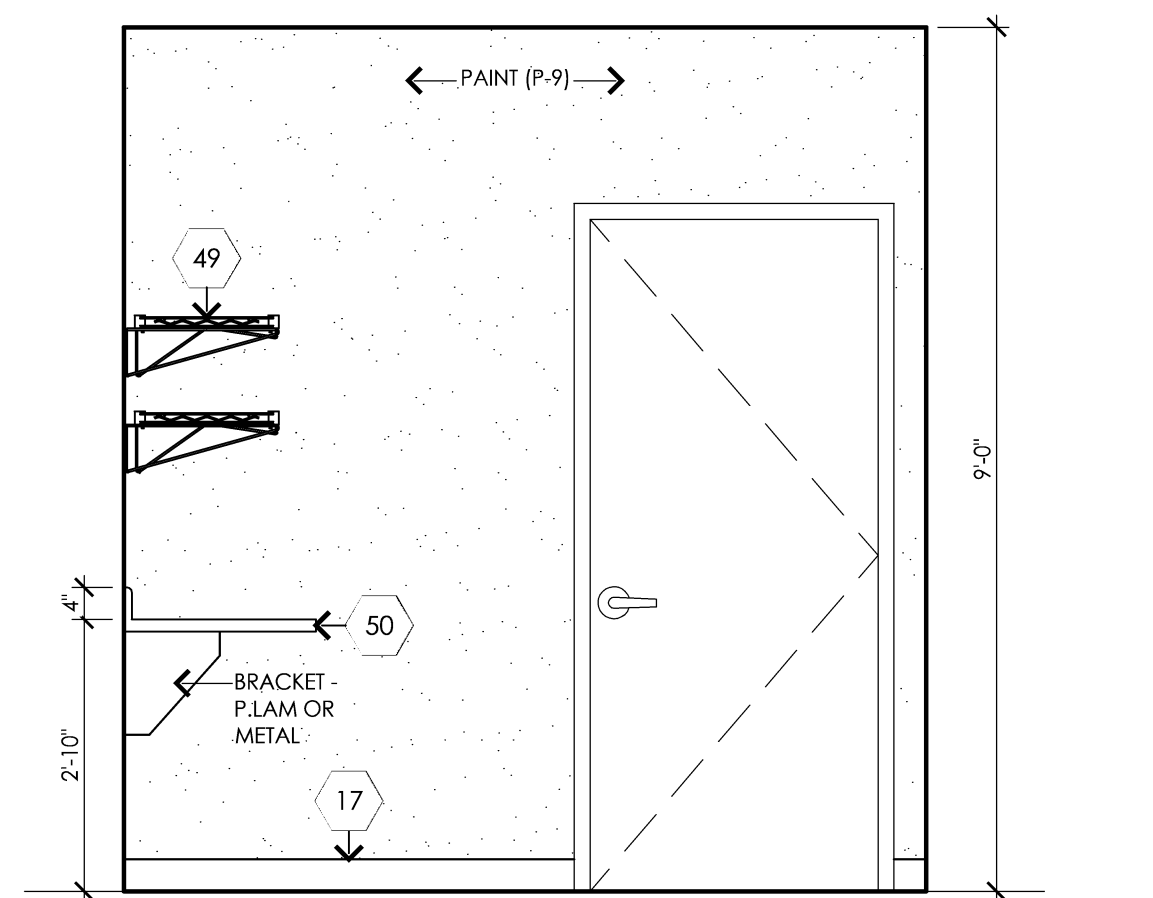
**4 Staff Room Interior Elevation**  
1/2" = 1'-0"  
A.402



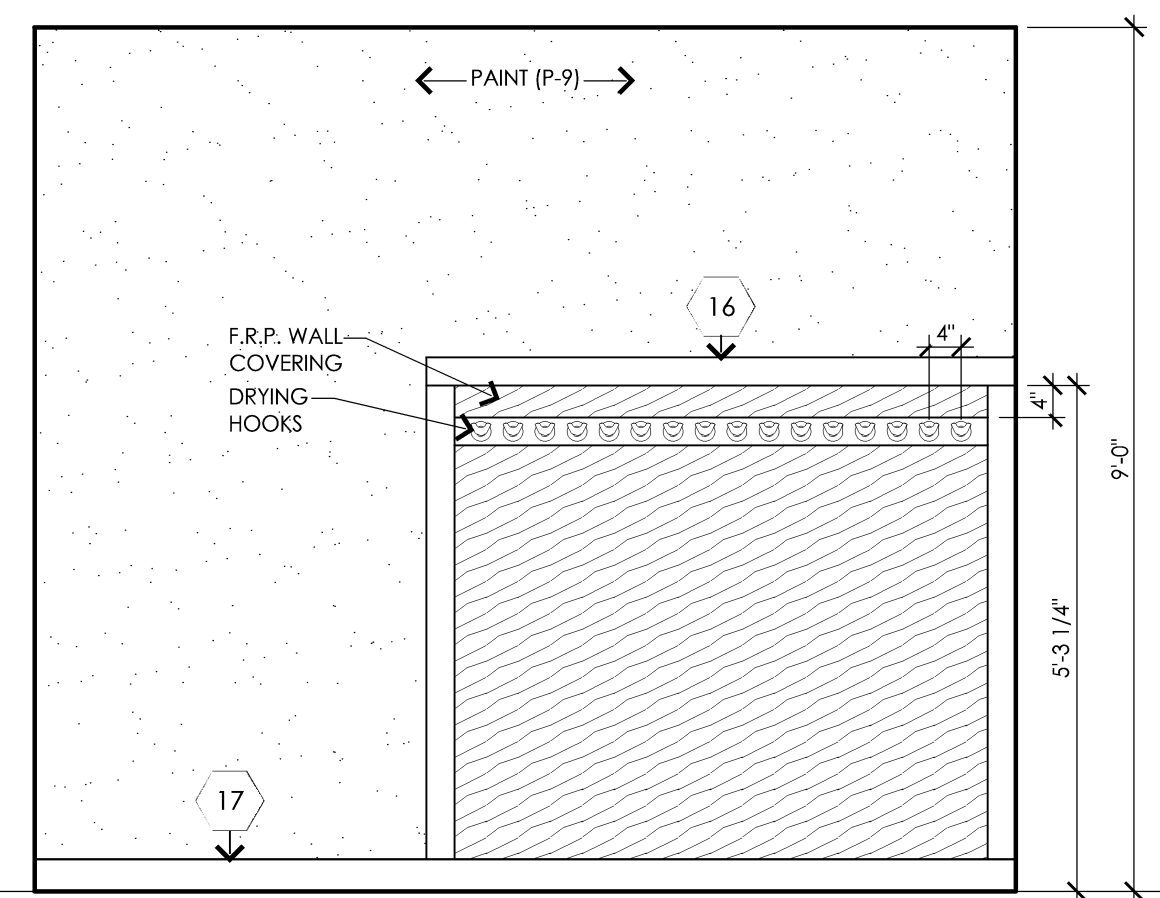
**5 Staff Room Interior Elevation**  
1/2" = 1'-0"  
A.402



**1 Staff Room Enlarged Plan**  
1/2" = 1'-0"  
A.100



**2 Staff Room Interior Elevation**  
1/2" = 1'-0"  
A.402



**3 Staff Room Interior Elevation**  
1/2" = 1'-0"  
A.402

**General Interior Elevation Notes:**

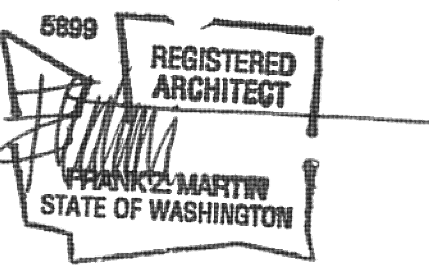
- FINAL PAINT SCHEME / COLOR COMBINATIONS TO BE APPROVED BY OWNER / GSS PRIOR TO PAINTING. REFER TO PAINT MANUFACTURER'S PREPARATION SPECIFICATIONS FOR ALL SURFACES PROVIDED BY G.F.S.S.
- DO NOT USE ANY SPLIT, CUT, DAMAGED, ETC. WOOD STUDS AT EXPOSED WALL CONSTRUCTION.
- HARDIE PANELS ARE TO BE PROPERLY NAILED, FILLED, AND PAINTED. NO EXPOSED NAILS AT INTERIOR SIDE.
- LAY-OUT OF PANELS TO BE REVIEWED BY GSS CONSTRUCTION ADVISOR PRIOR TO INSTALLATION.
- ALL HARDIBOARD TRIM AND PANELS TO BE ORDERED IN 10' LENGTHS TO AVOID HORIZONTAL JOINTS.
- REFER TO MOUNTING HEIGHTS SCHEDULE ON SHEET A7/01 FOR DIMENSIONS OF WALL MOUNTED POOL TOY SUPPORT BRACKETS, ACCESSORIES, ETC....
- ADD RUBBER BASE TO ALL OSR SUPPLIED ITEMS INCLUDING: BACK SERVICE COUNTER, HAIR DRIER STATION, DIAPER CHANGING STATION, FISH TANK, AND ALL CUBBIES.
- PROVIDE BLOCKING AS REQUIRED FOR ALL WALL-MOUNTED ITEMS, INCLUDING POOL TOYS. (TYP.)
- DOOR AND TRIM PAINT COLORS TO MATCH INSIDE AND OUTSIDE.

**Interior Elevation Keyed Notes:**

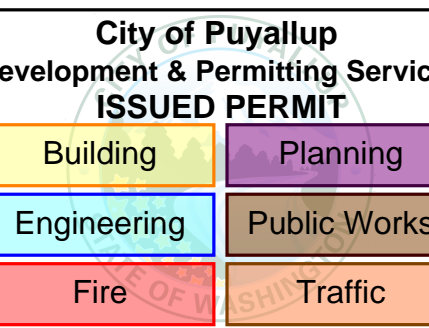
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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
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Puyallup, WA 98373  
Interior Elevations

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

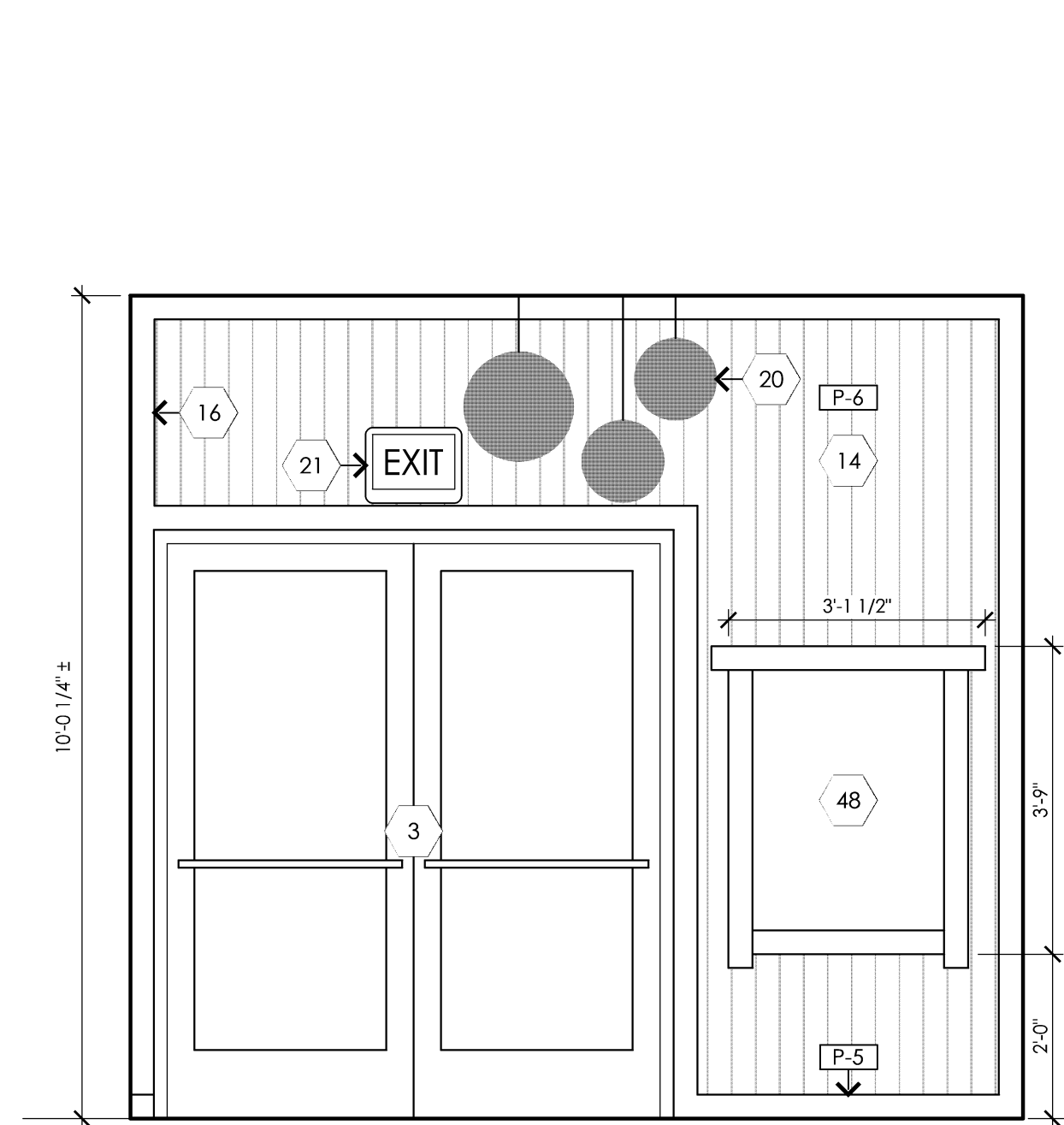


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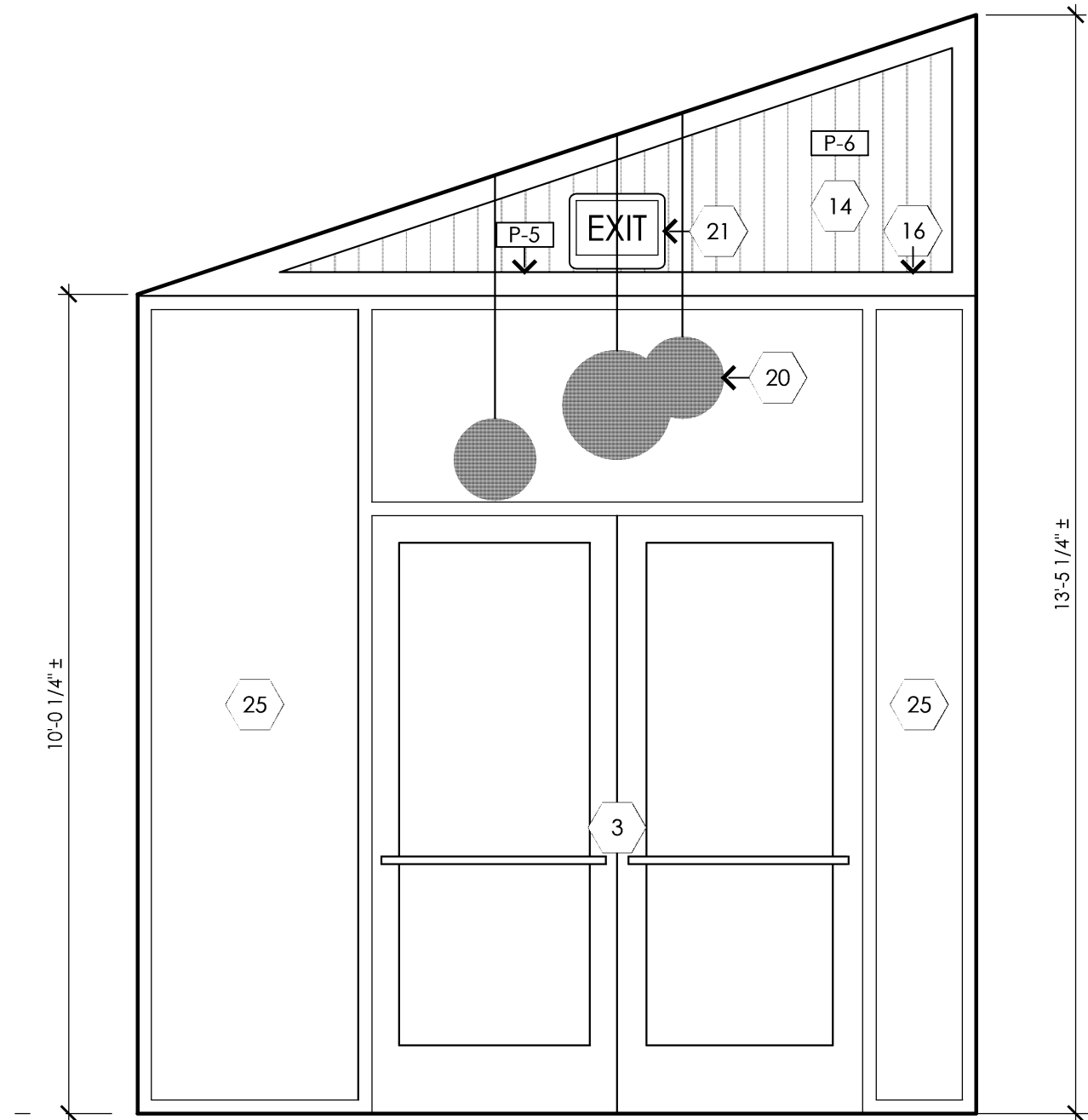
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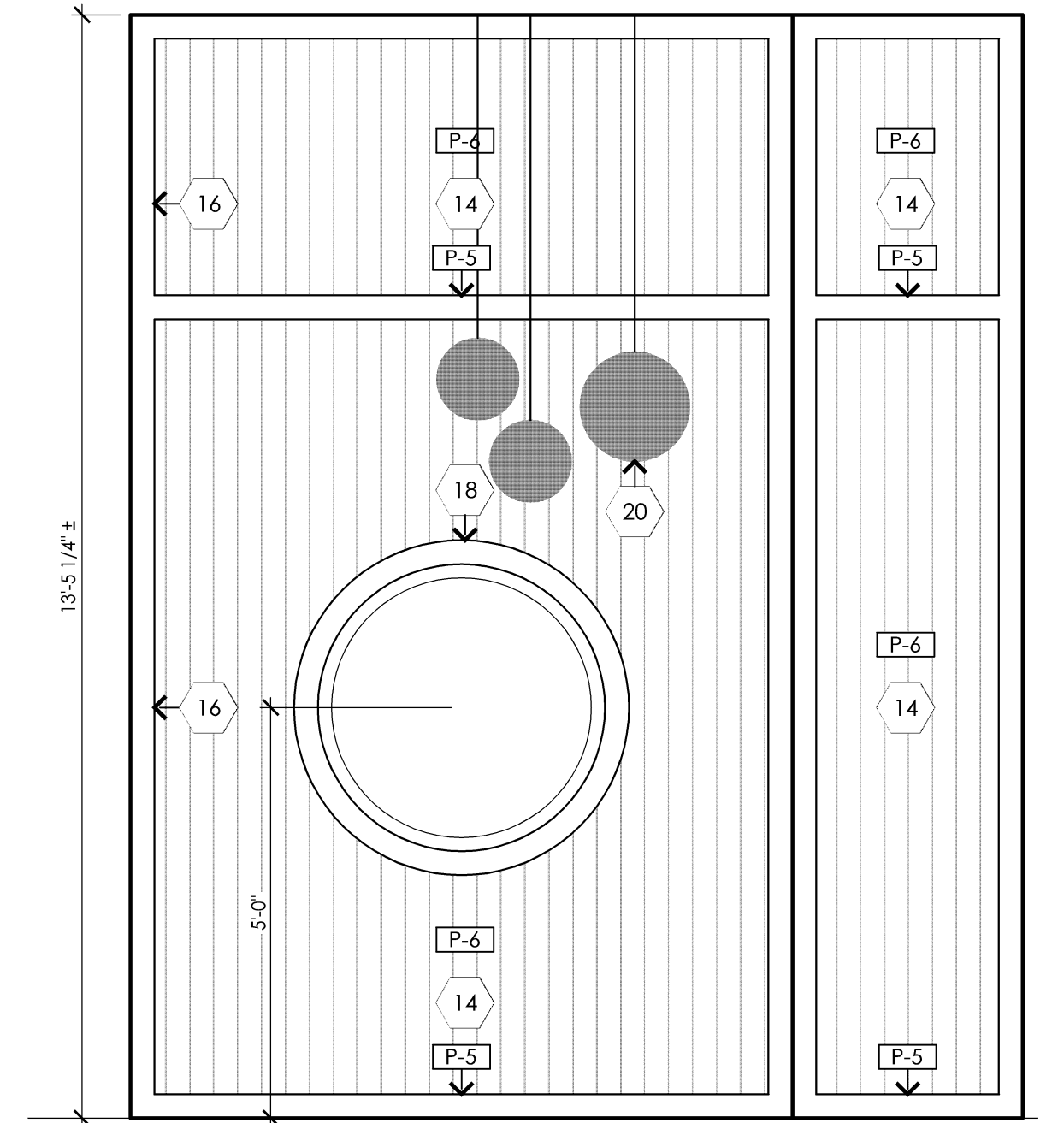
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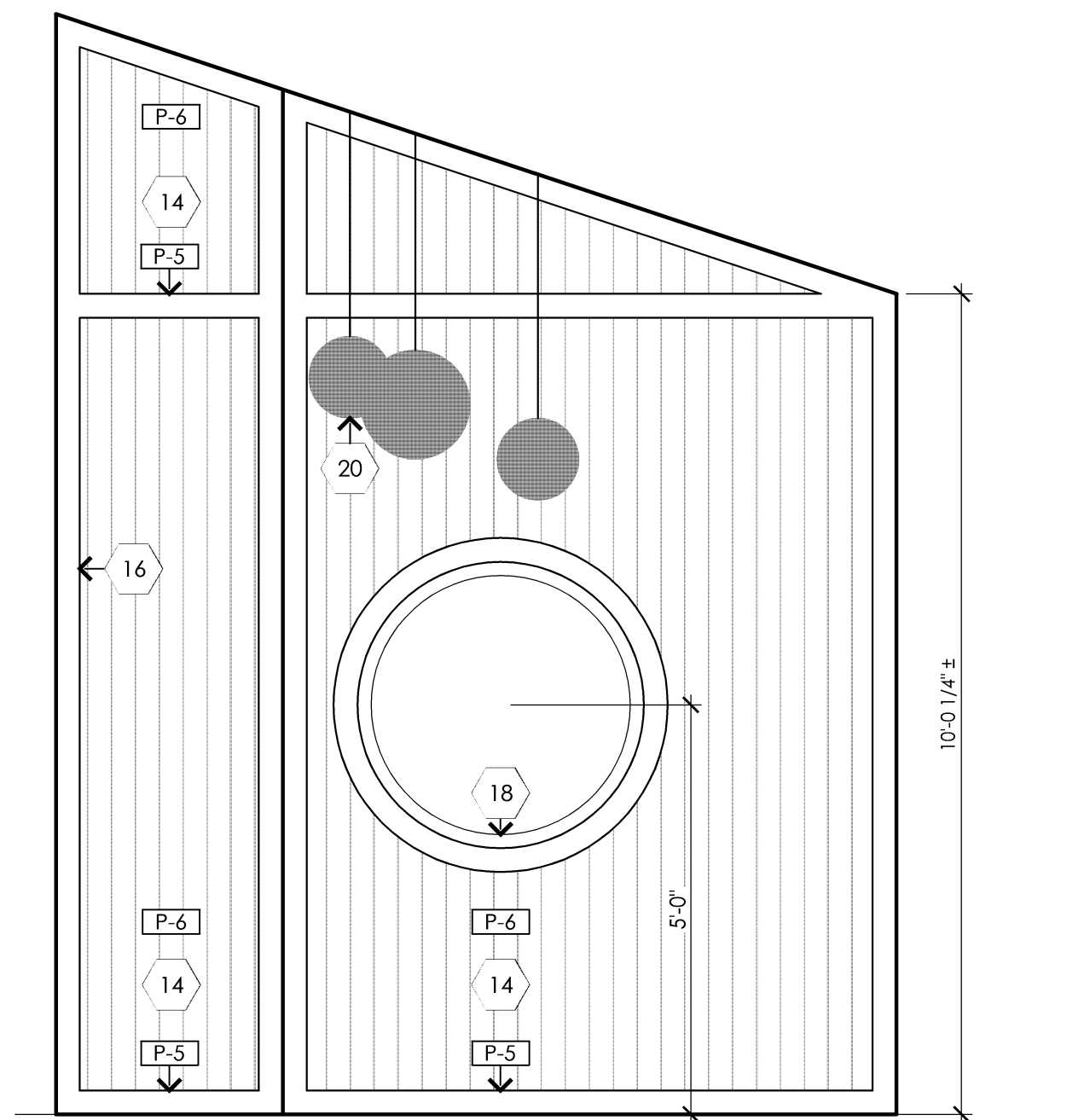
**3** Vestibule Interior Elevation  
1/2" = 1'-0"  
A.100



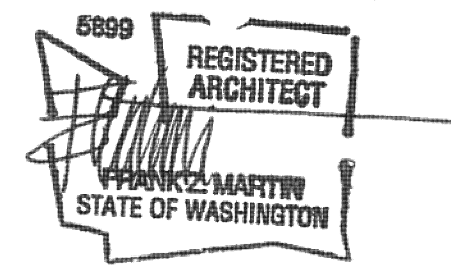
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A.100



**1** Vestibule Interior Elevation  
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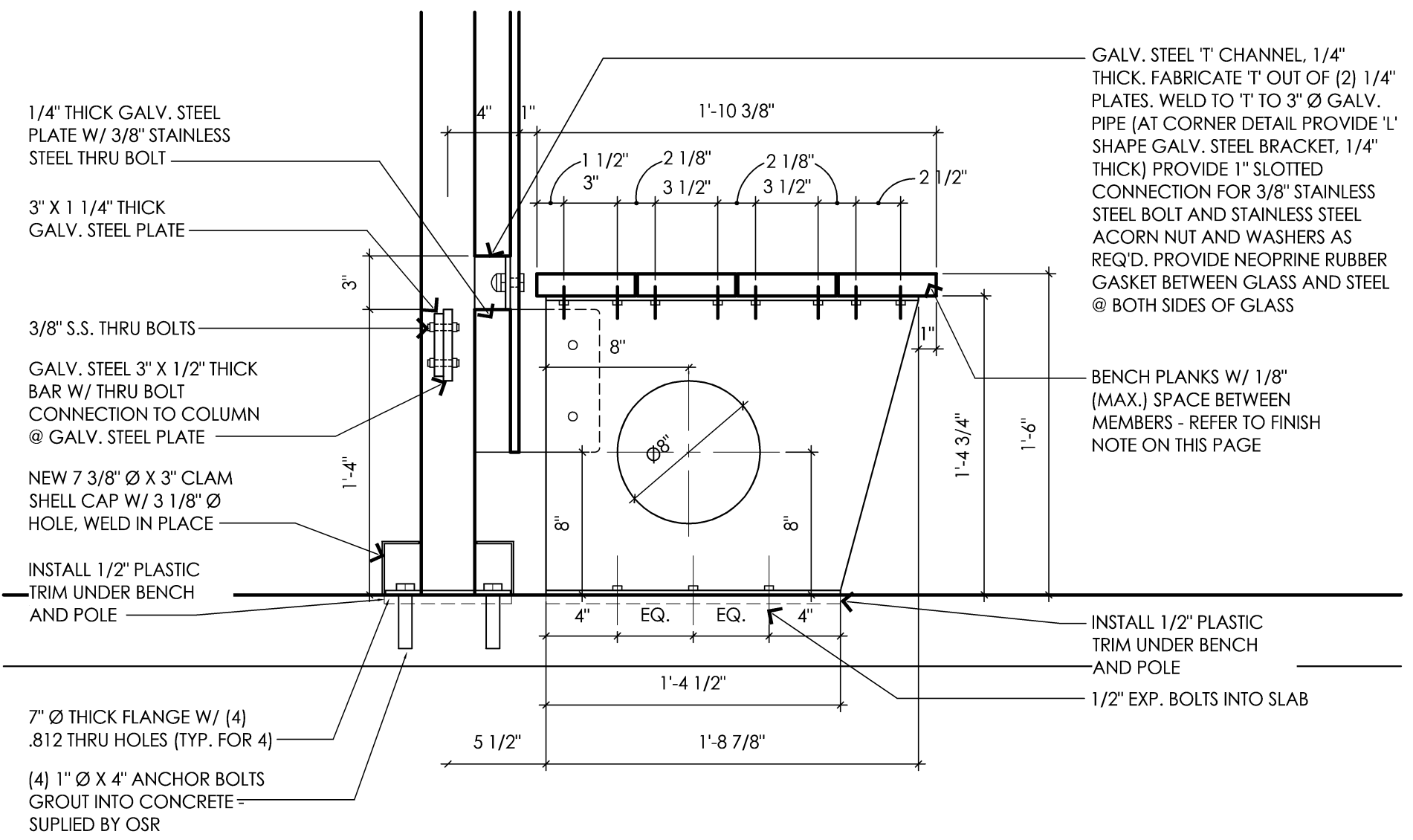
**2** Vestibule Interior Elevation  
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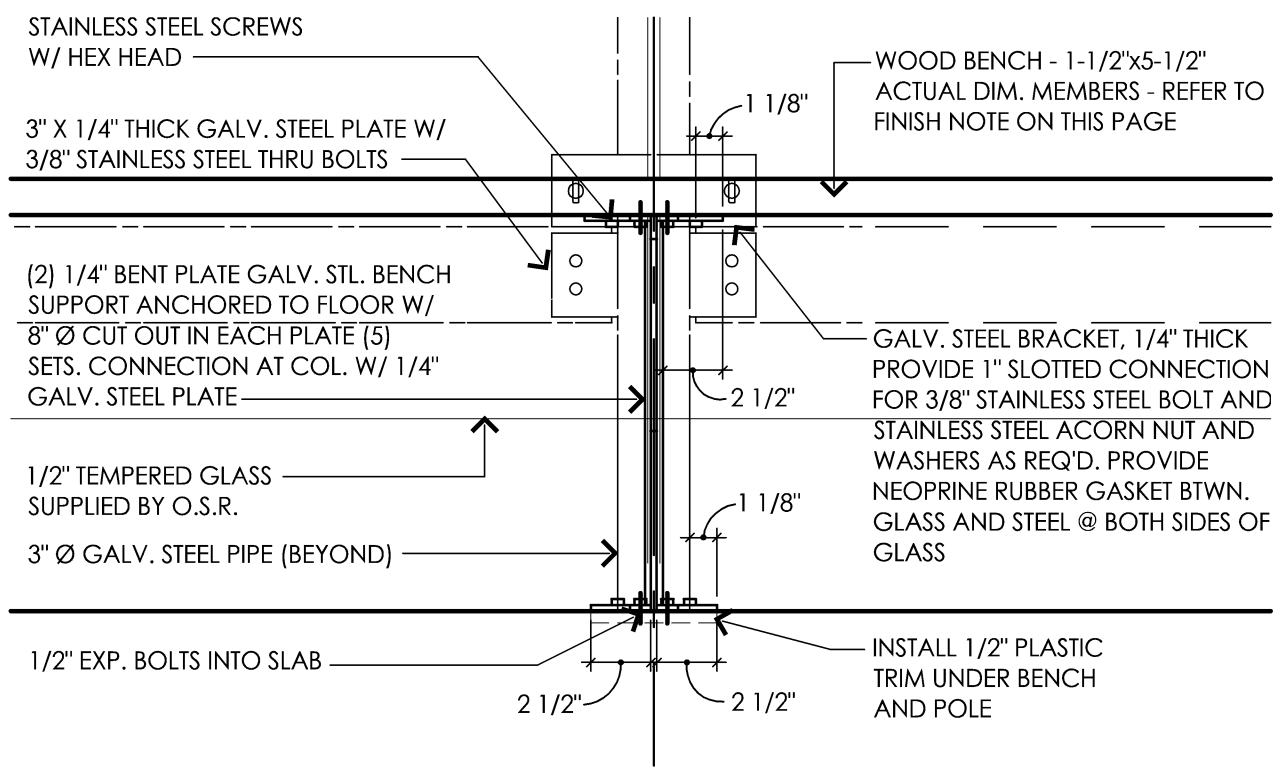
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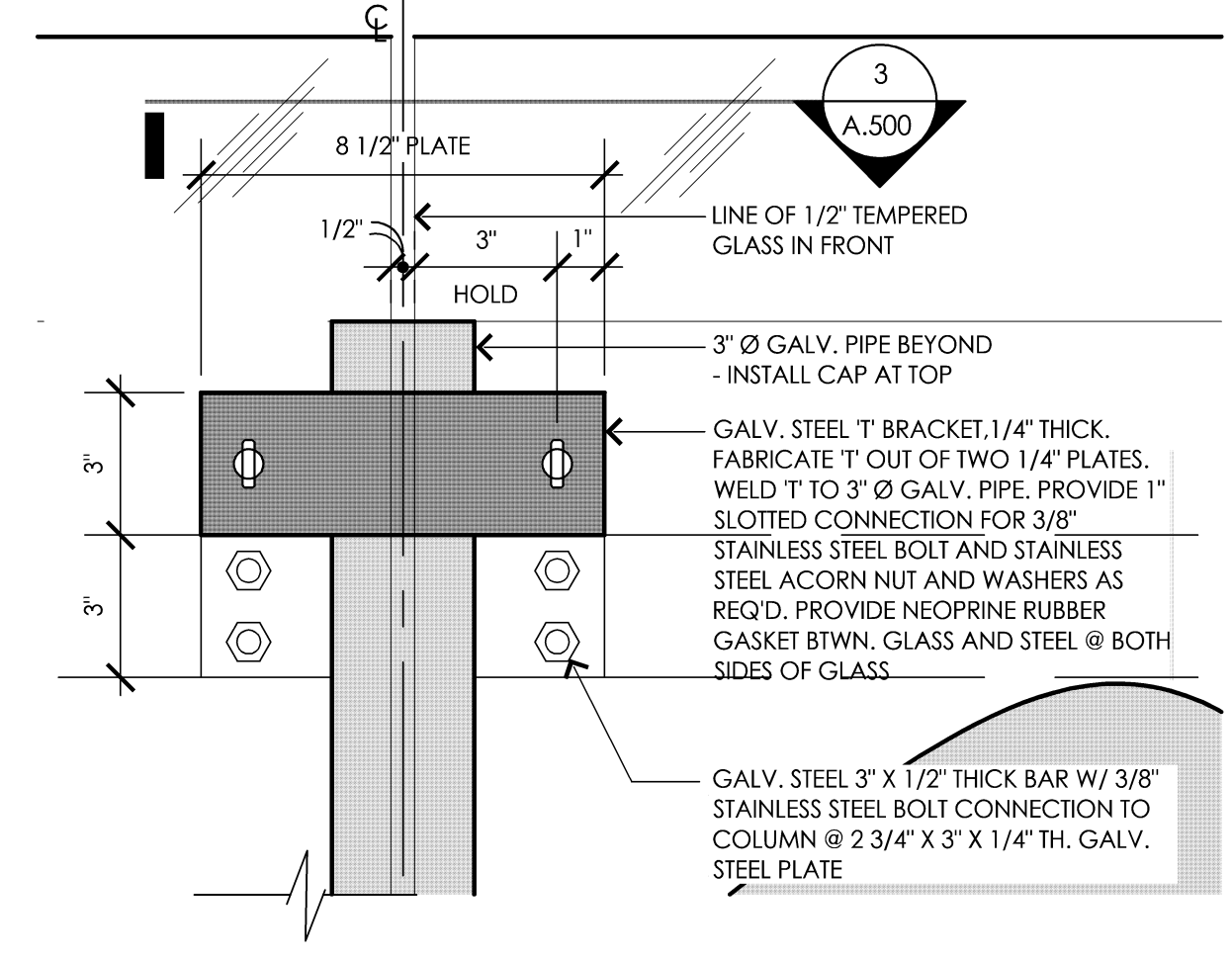
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Engineering	Public Works
Fire	Traffic



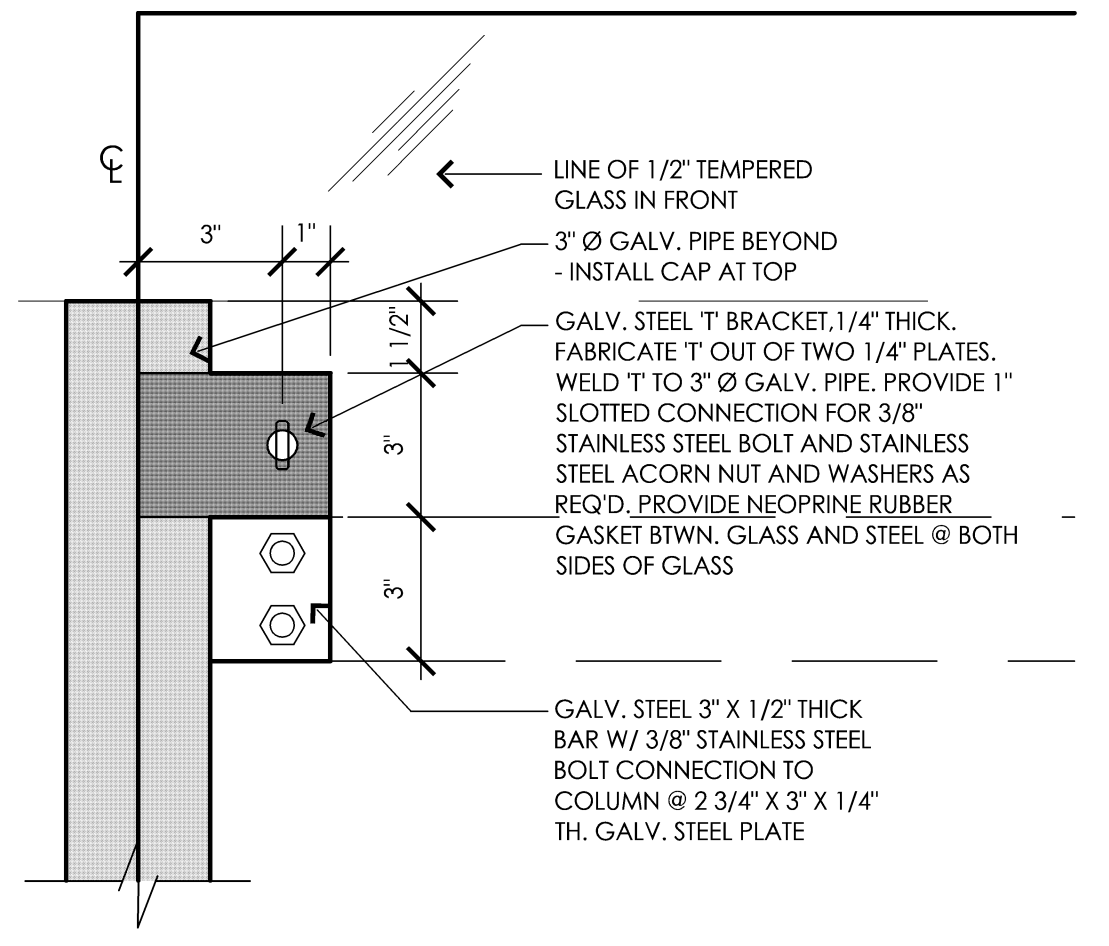
**10** Bench / Wall Detail  
1 1/2" = 1'-0"  
A.500



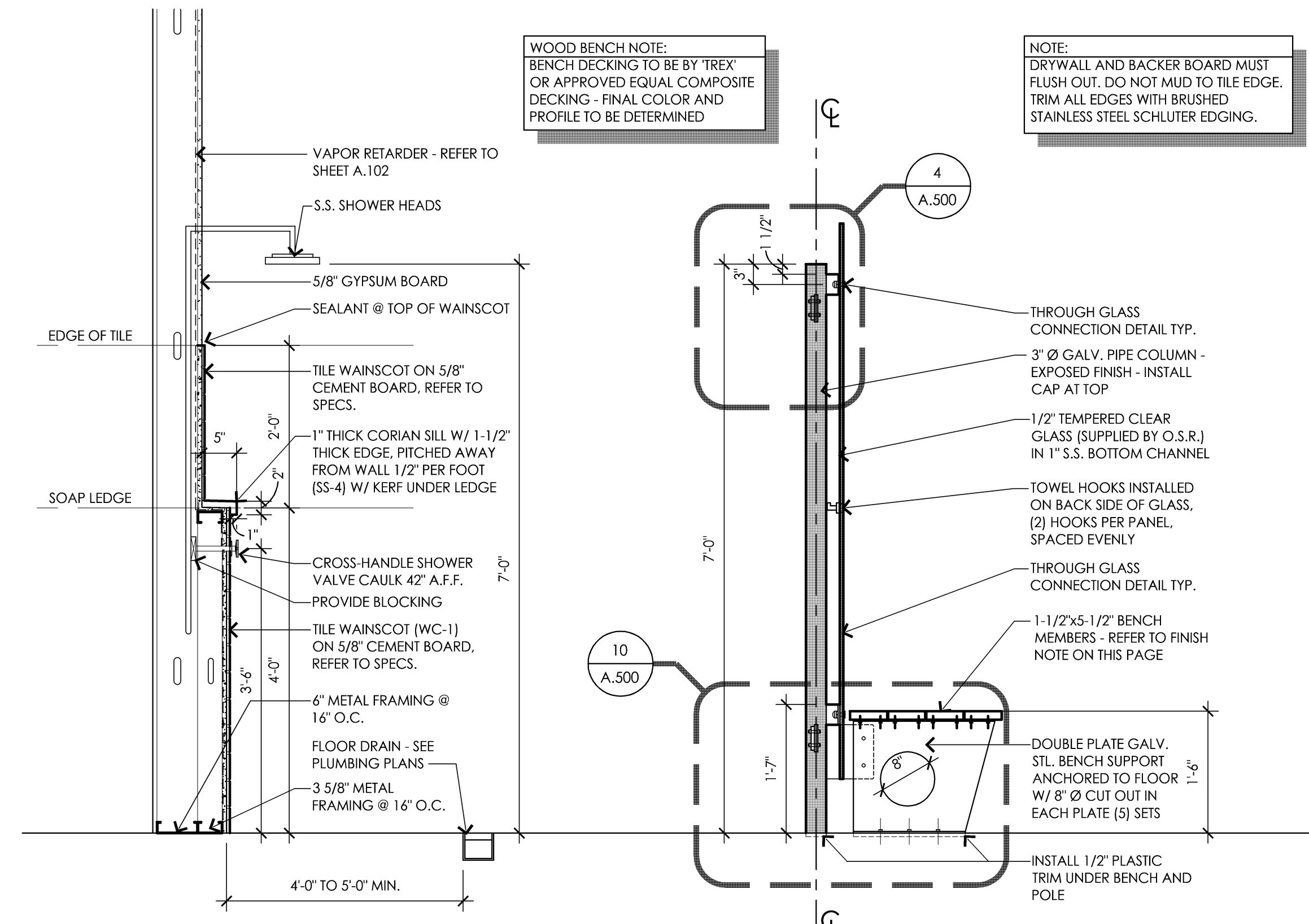
**9** Bench / Wall Detail  
1 1/2" = 1'-0"  
A.500



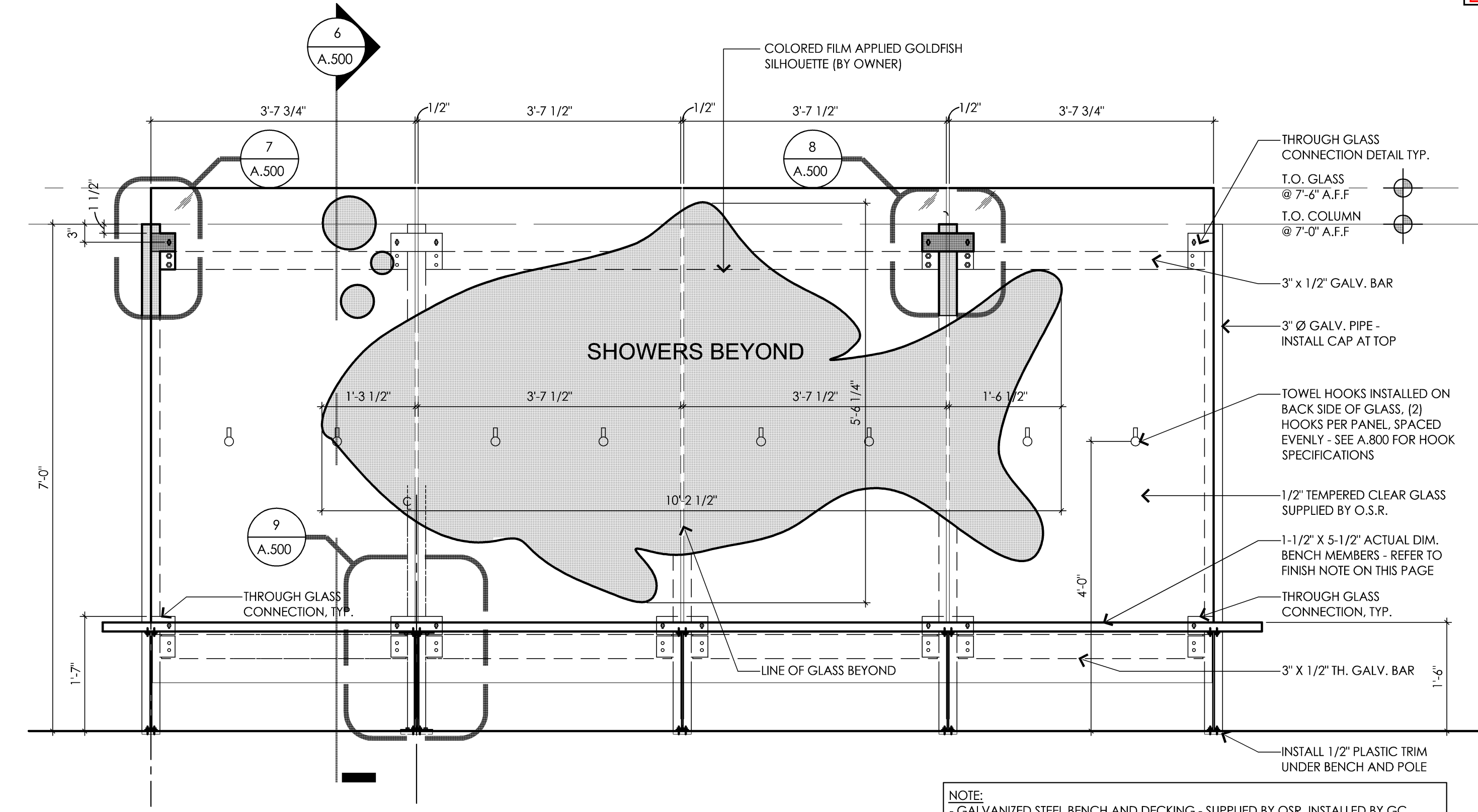
**8** Bench / Wall Detail  
3" = 1'-0"  
A.500



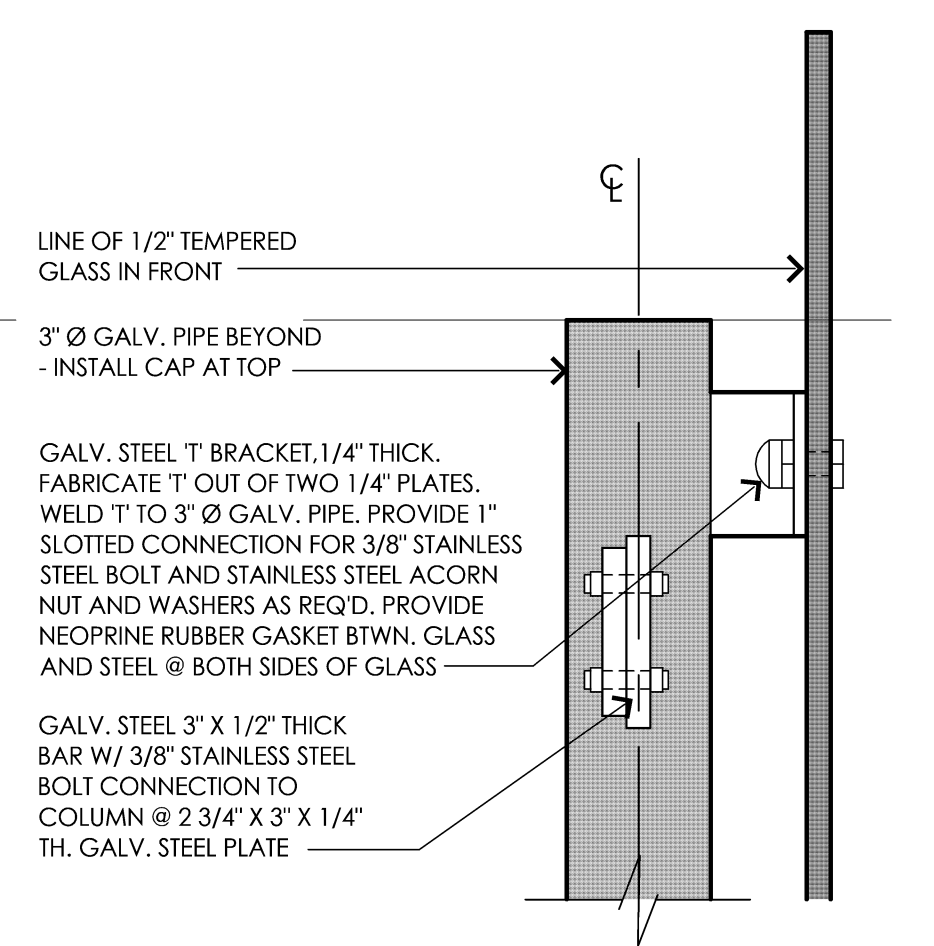
**7** Bench / Wall Detail  
3" = 1'-0"  
A.500



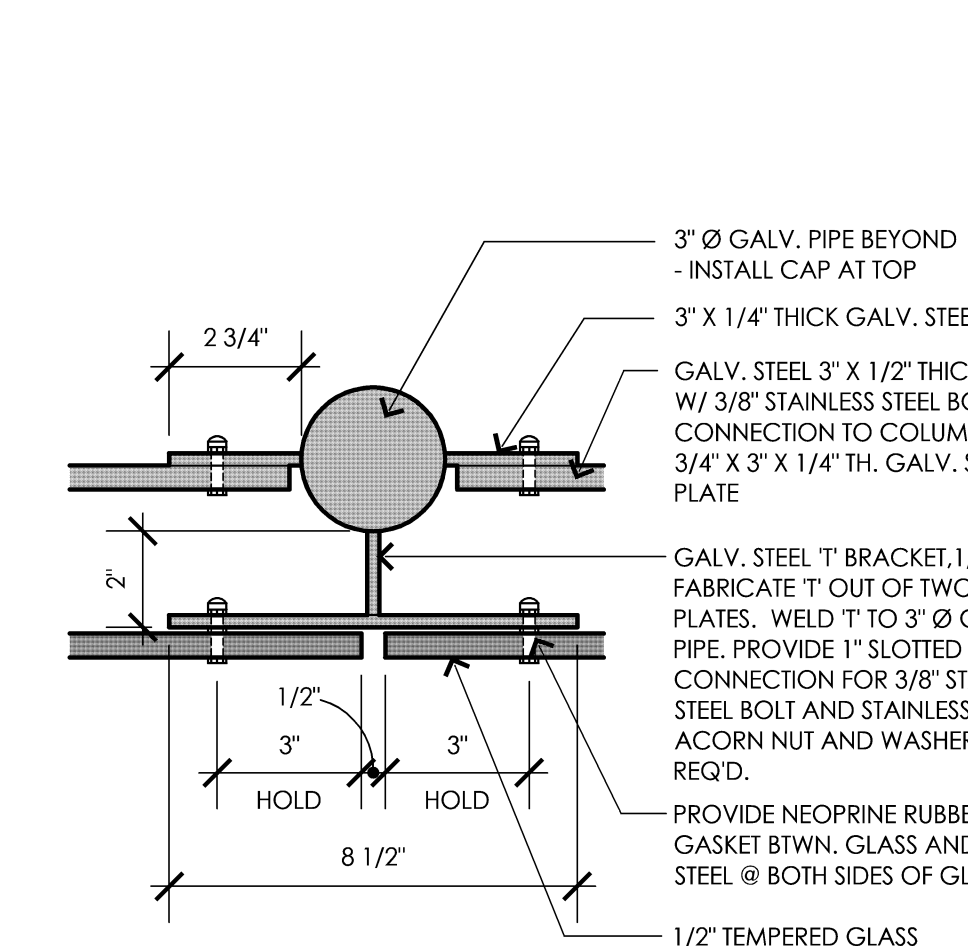
**6** Bench / Wall Section  
3/4" = 1'-0"  
A.500



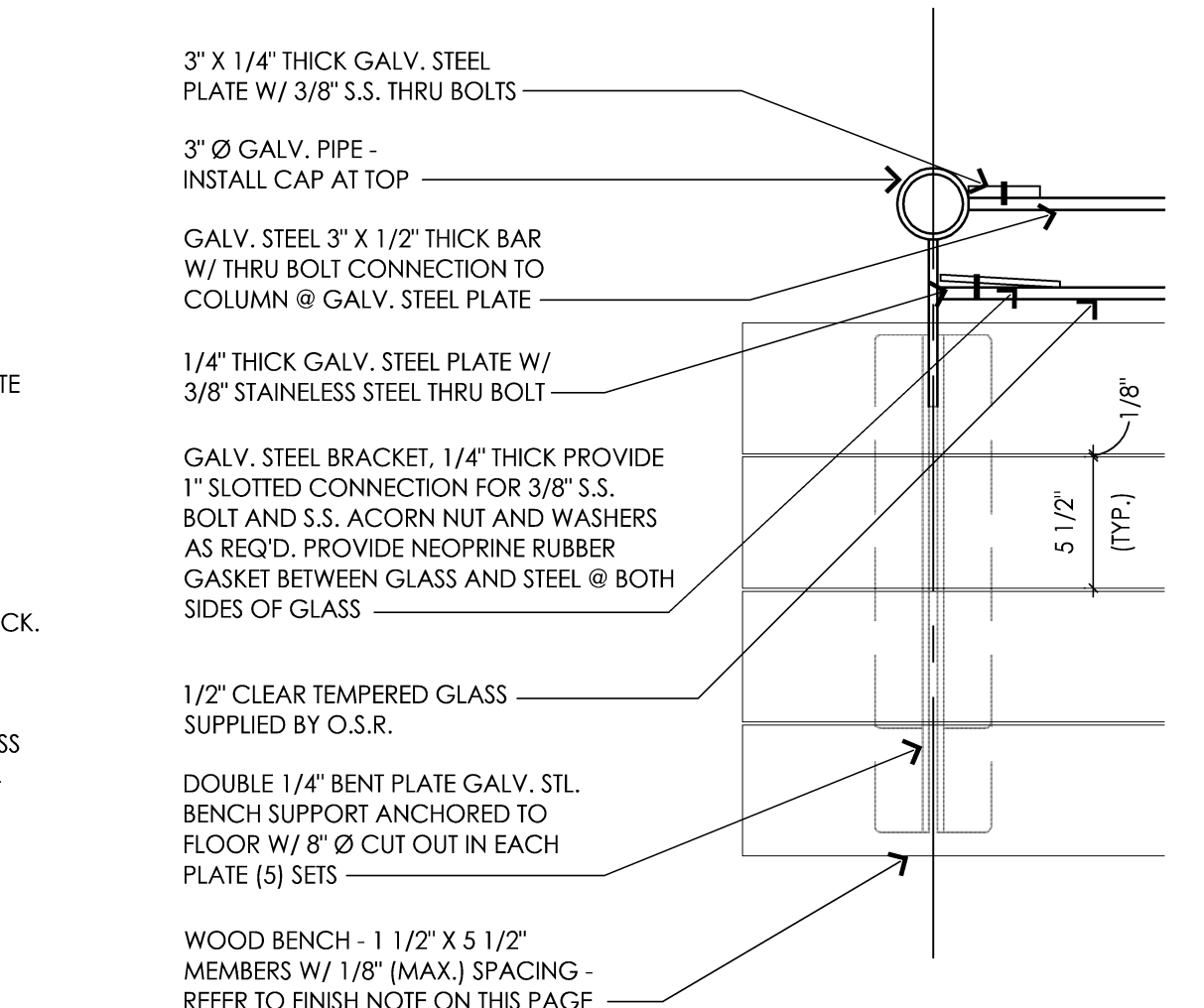
**5** Bench / Wall Elevation  
3/4" = 1'-0"  
A.500



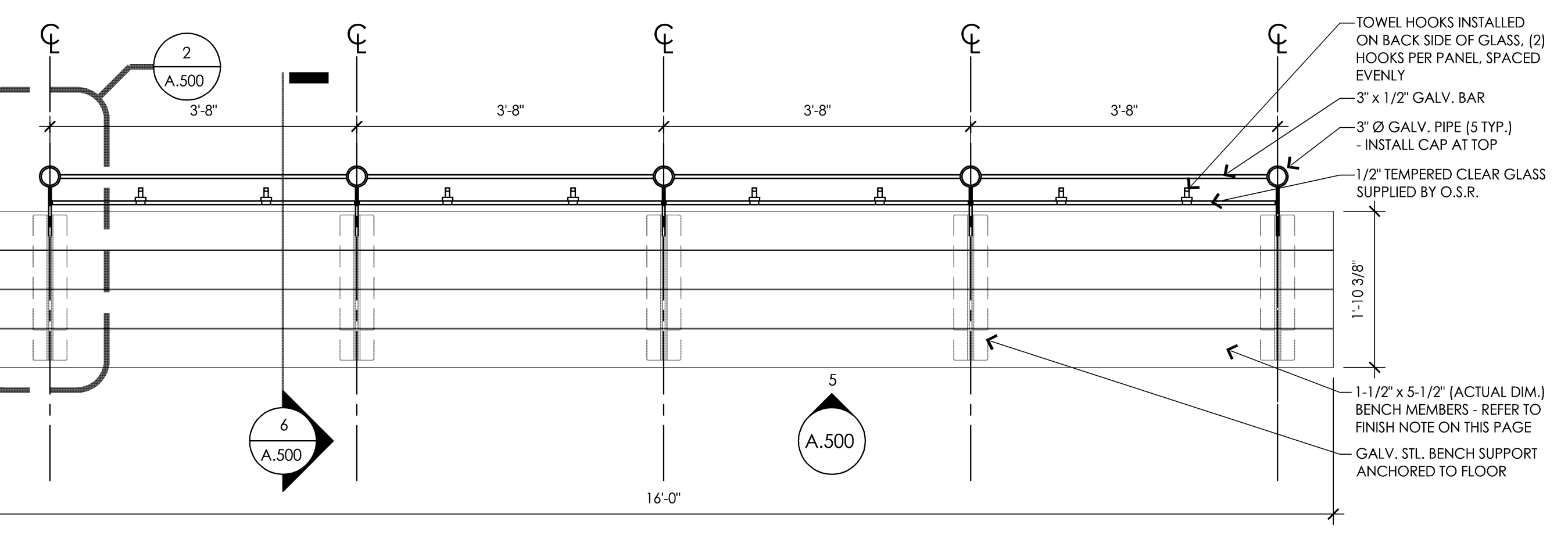
**4** Bench / Wall Detail  
3" = 1'-0"  
A.500



**3** Bench / Wall Detail  
3" = 1'-0"  
A.500



**2** Bench / Wall Detail  
1 1/2" = 1'-0"  
A.500



**1** Bench / Wall Plan  
3/4" = 1'-0"  
A.100

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be  
followed - No deviation  
permitted without prior  
written Goldfish Franchise  
approval.



issue / revision date

10-07-22	Staggered Review
11-07-22	Preliminary Budget Review
11-18-22	DOH Review
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01-11-23	Owner Revision
02-09-23	City Review Comments
02-09-23	DOH Review Comments
02-09-23	Elect. Review Comments

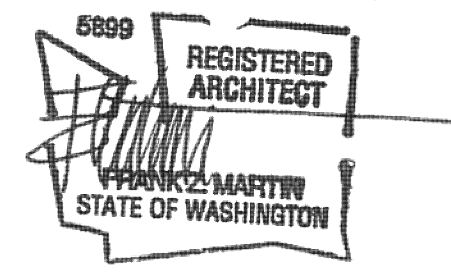
drawn by \_\_\_\_\_ checked by \_\_\_\_\_

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

**dma**  
DORCHEN / MARTIN  
Dorchen/Martin Associates, Inc.  
Architects/Planners  
29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
www.dorchenmartin.com

job number 22006 sheet number A.500

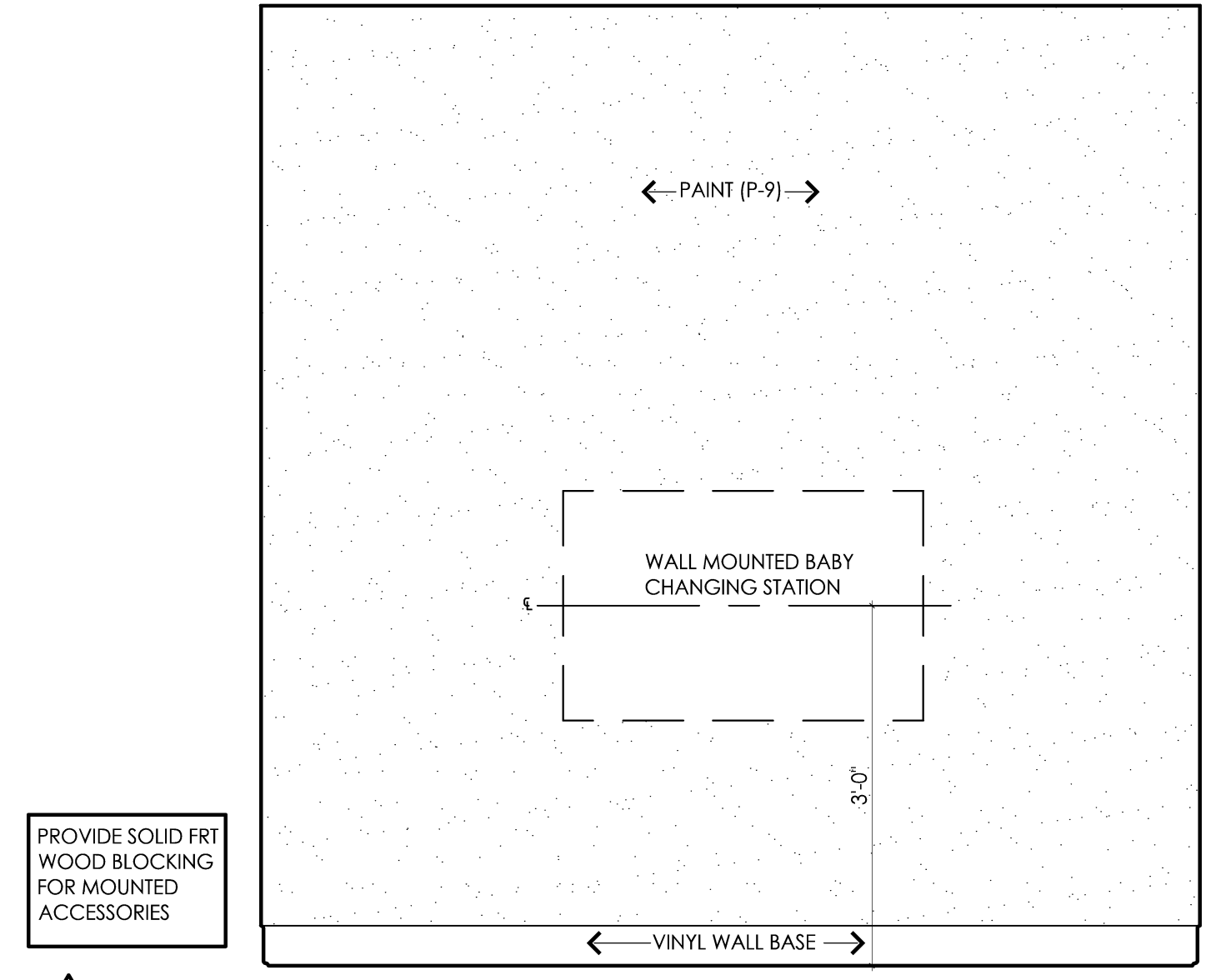
**PRCTI20221793**



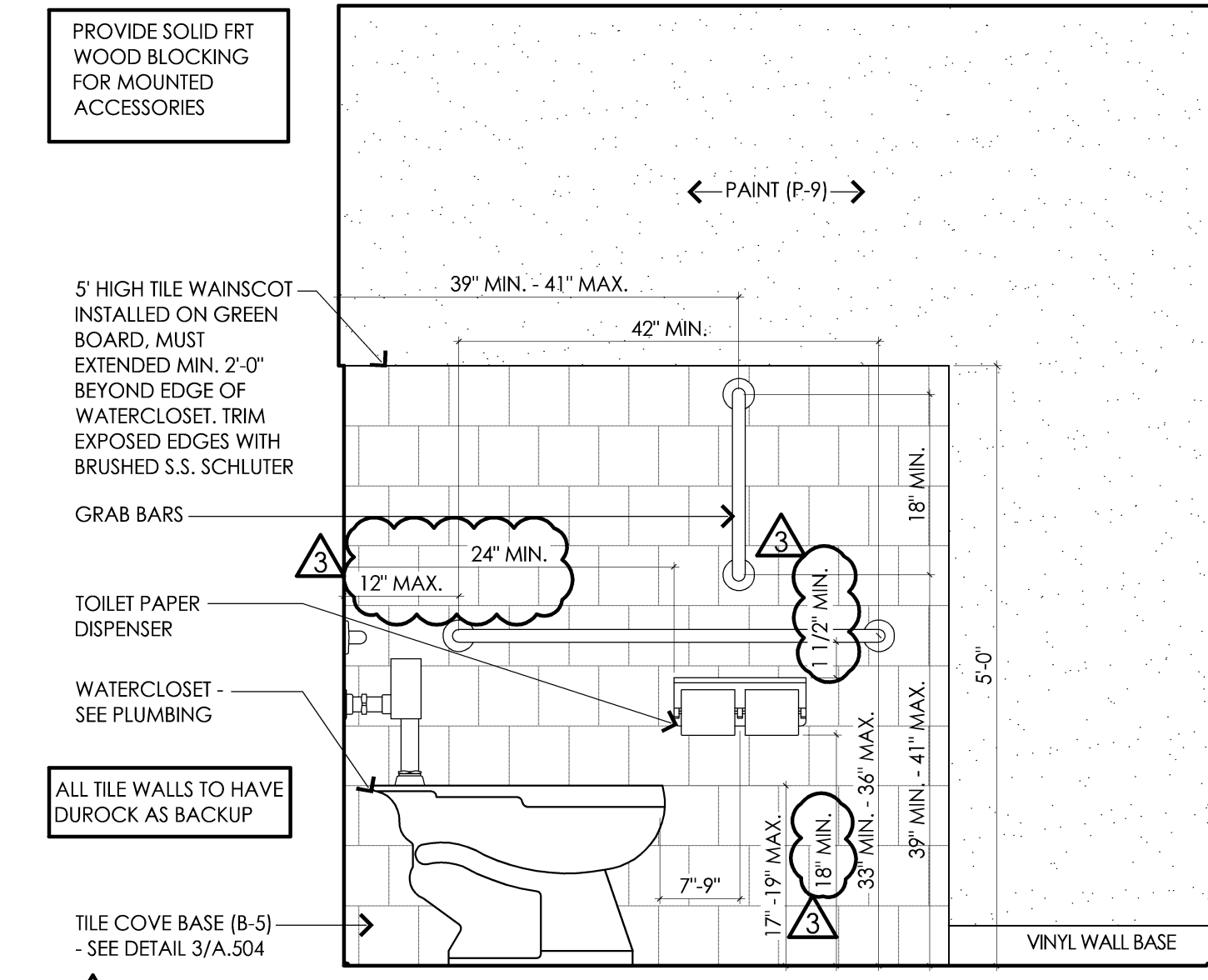
architect seal

City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

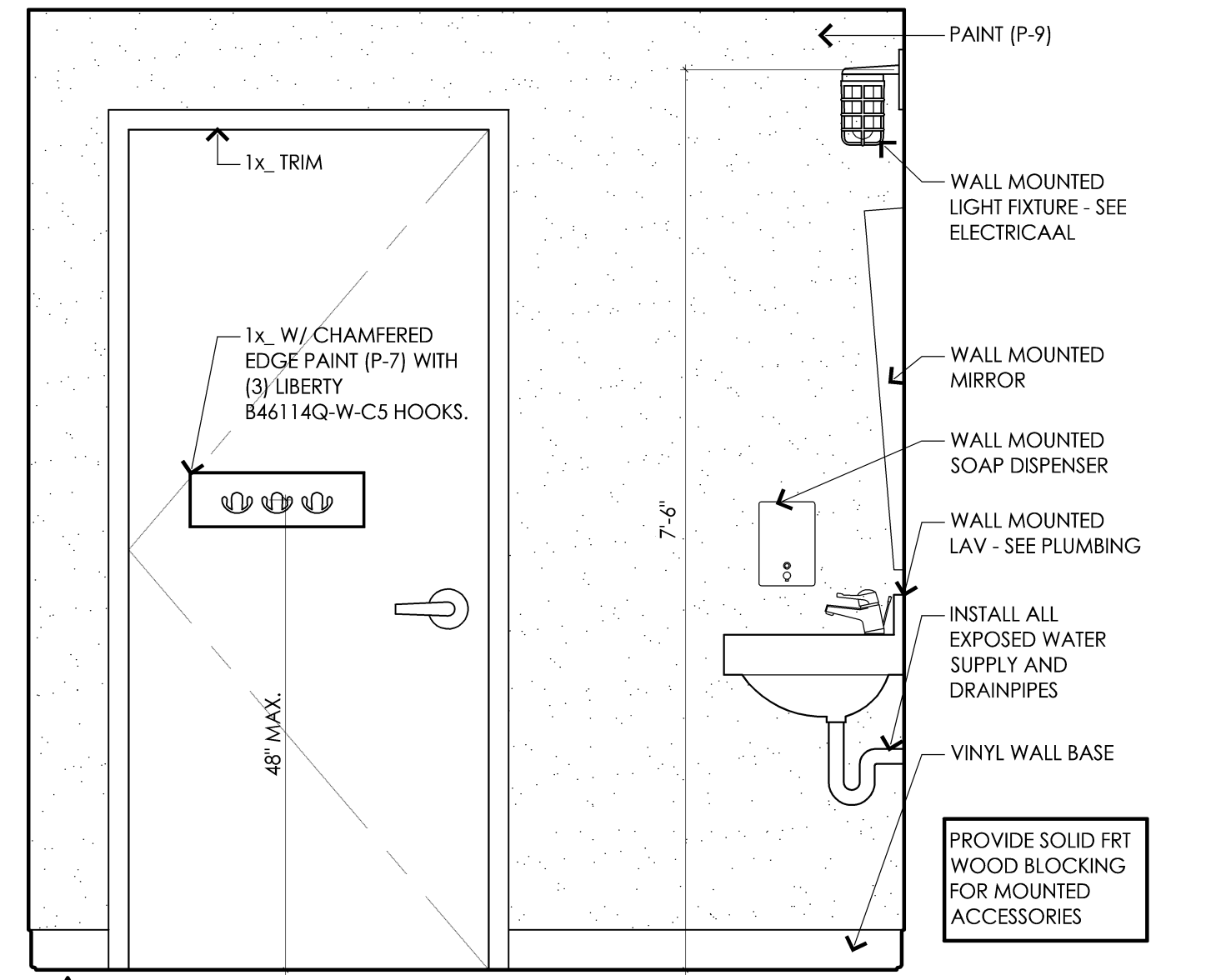
Building	Planning
Engineering	Public Works
Fire	Traffic



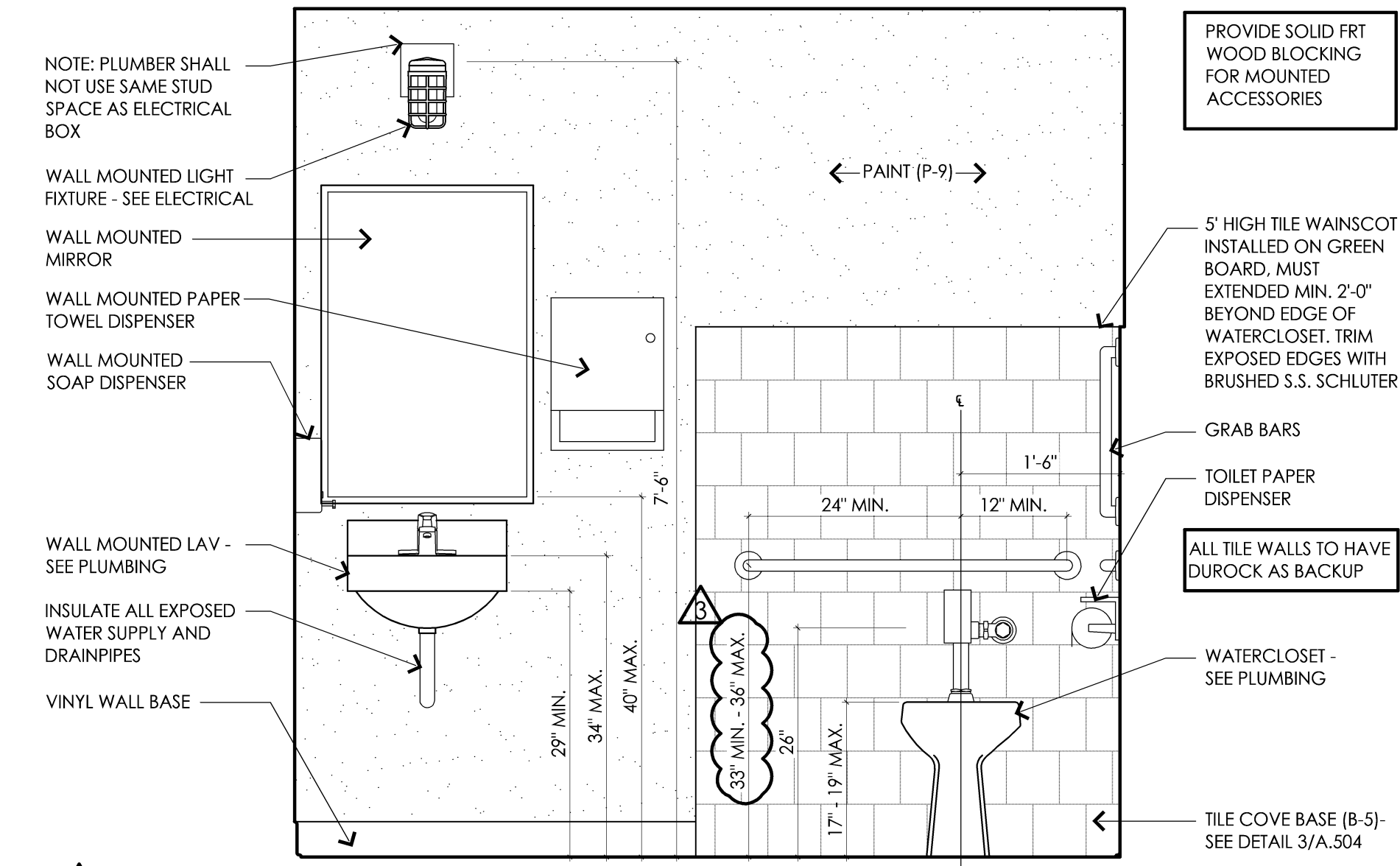
**C** Gender Neutral B.F. Toilet 110 Interior Elevation  
3/4" = 1'-0"  
A.501



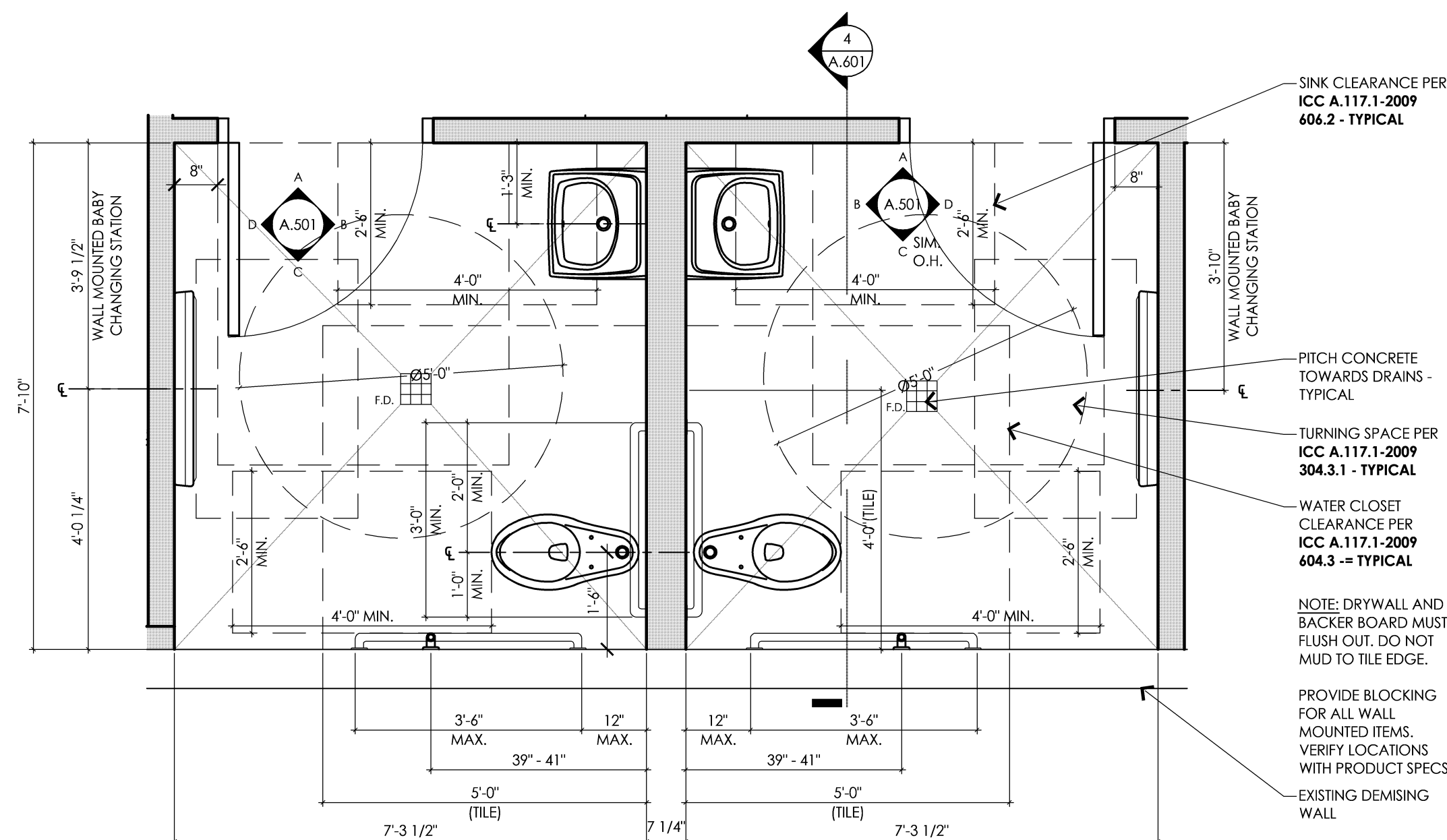
**D** Gender Neutral B.F. Toilet 110 Interior Elevation  
3/4" = 1'-0"  
A.501



**A** Gender Neutral B.F. Toilet 110 Interior Elevation  
3/4" = 1'-0"  
A.501



**B** Gender Neutral B.F. Toilet 110 Interior Elevation  
3/4" = 1'-0"  
A.501



**1** Enlarged Gender Neutral B.F. Toilet 110 & 111  
1/2" = 1'-0"

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
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issue / revision date

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02-09-23 City Review Comments
02-09-23 DOH Review Comments
02-09-23 Elect. Review Comments

drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

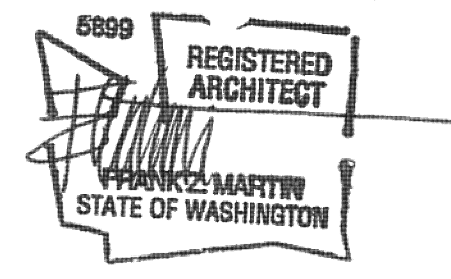
B.F. Restroom Enlarged  
Plans and Interior  
Elevations

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

**dma**  
DORCHEN / MARTIN  
Dorchen/Martin Associates, Inc.  
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29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
www.dorchenmartin.com

job number 22006 sheet number A.501

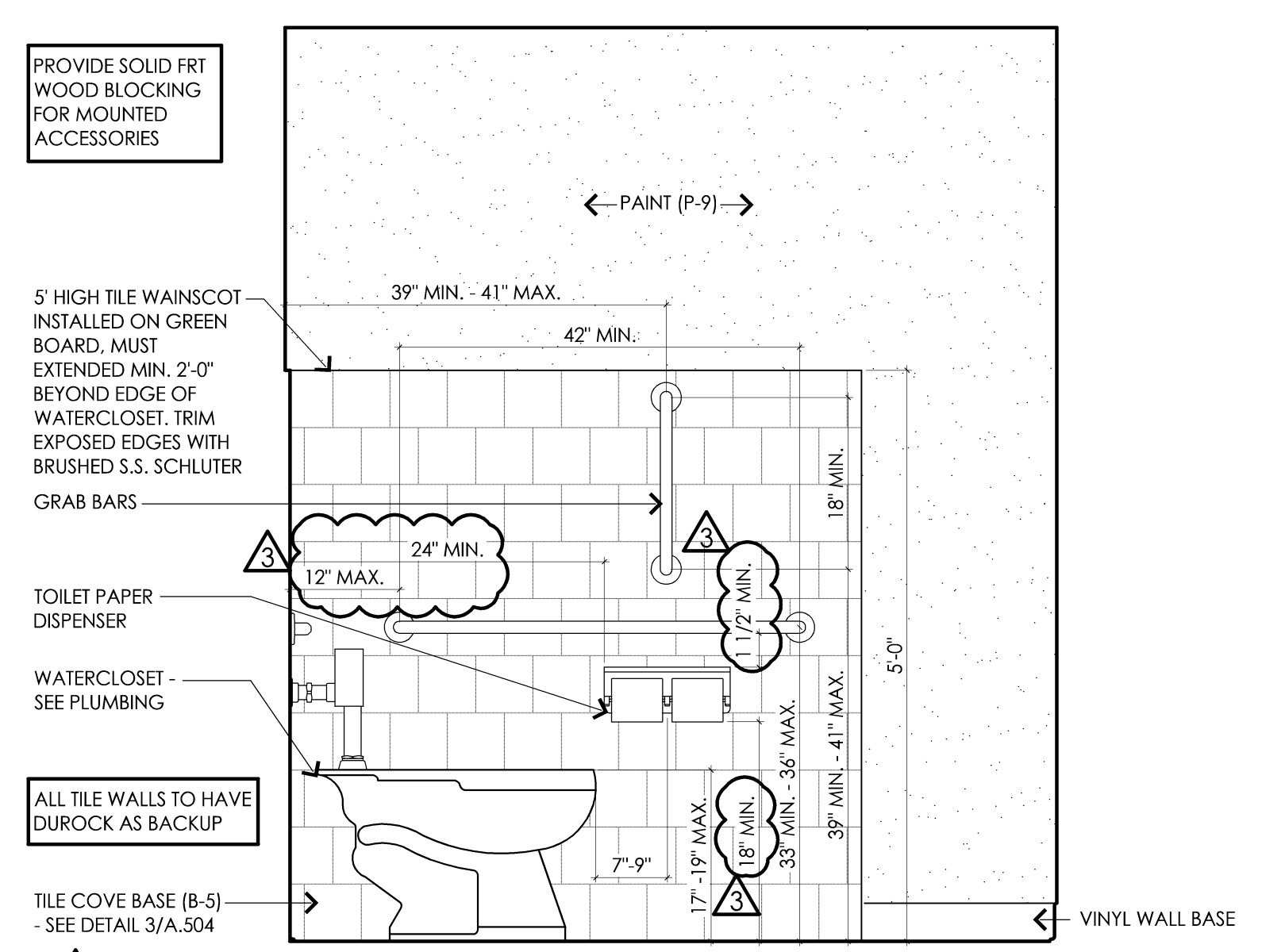
PRCTI20221793



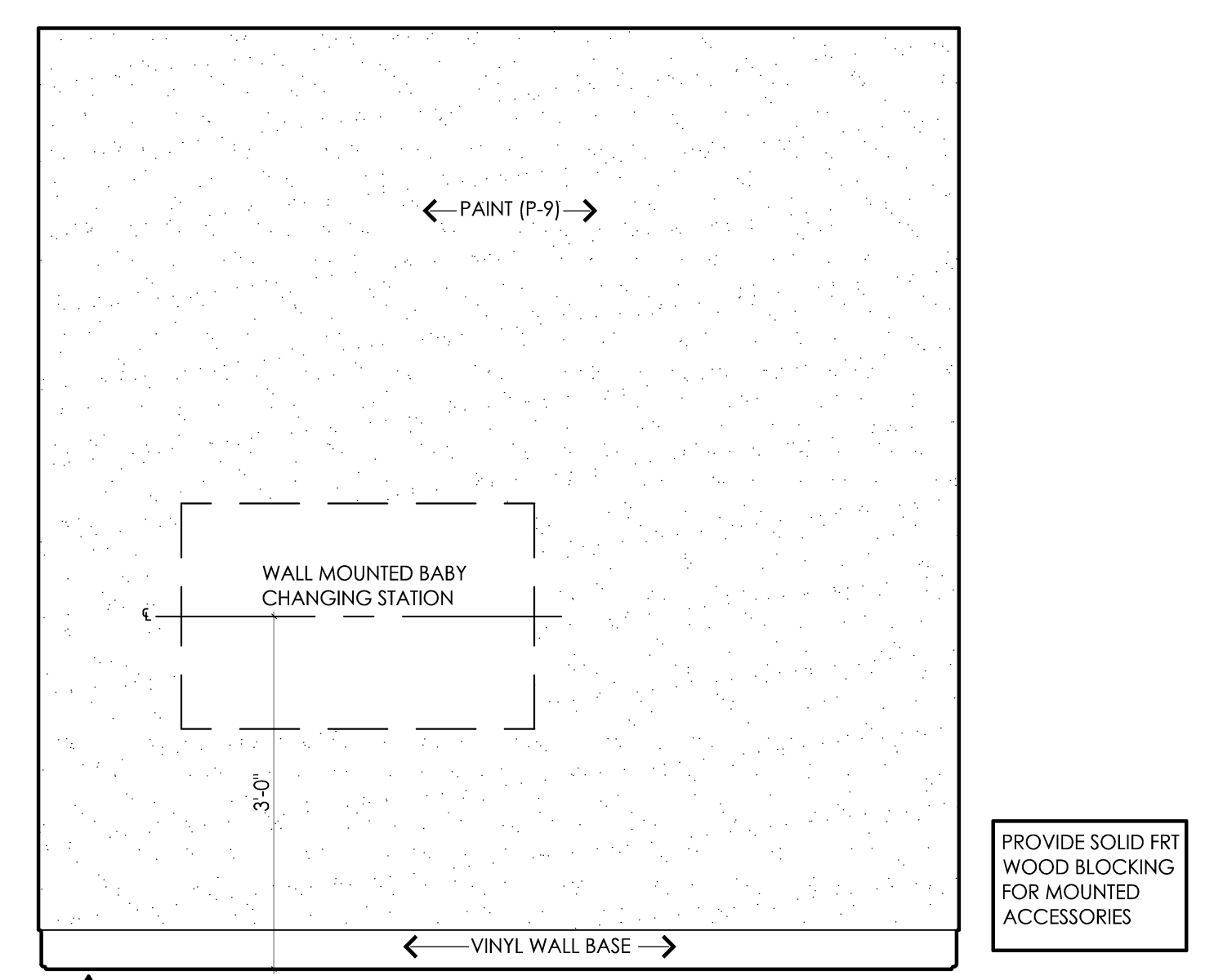
architect seal

**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

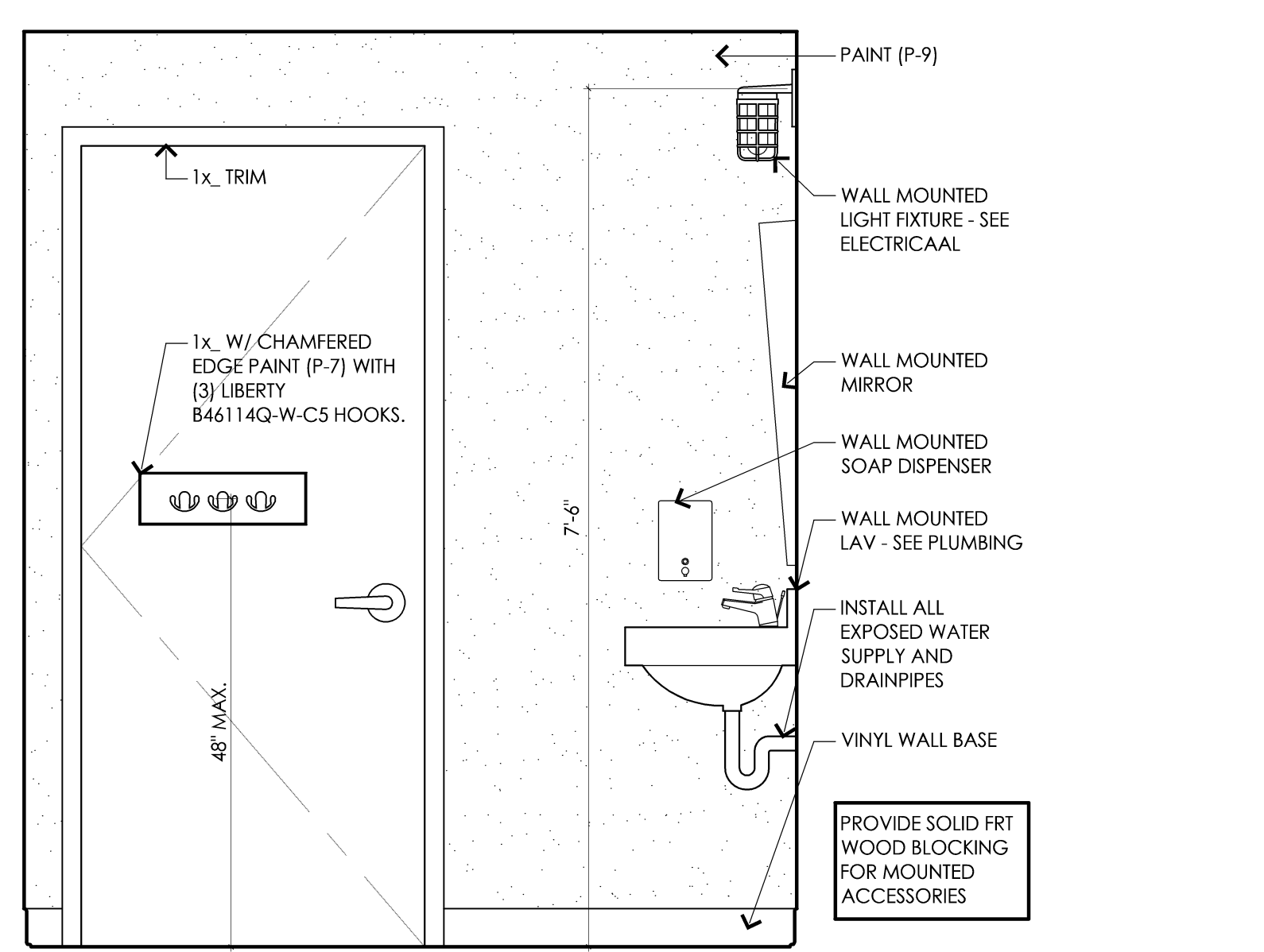
Building	Planning
Engineering	Public Works
Fire	Traffic



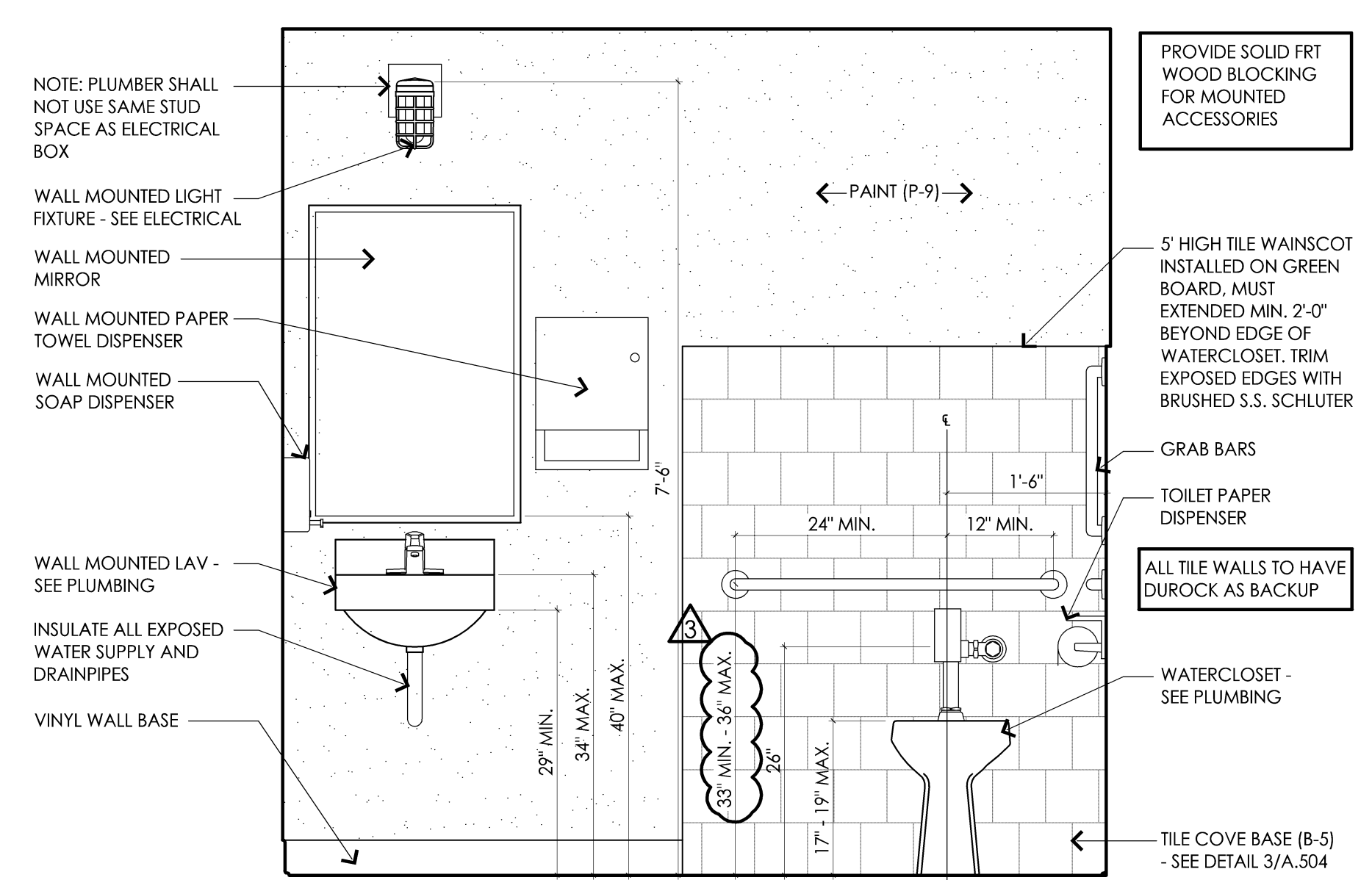
**C** Women's B.F. Toilet 109 Interior Elevation  
3/4" = 1'-0"  
A.502



**D** Women's B.F. Toilet 109 Interior Elevation  
3/4" = 1'-0"  
A.502



**A** Women's B.F. Toilet 109 Interior Elevation  
3/4" = 1'-0"  
A.502



**B** Women's B.F. Toilet 109 Interior Elevation  
3/4" = 1'-0"  
A.502

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
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issue / revision date

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02-09-23	City Review Comments
02-09-23	DOH Review Comments
02-09-23	Elect. Review Comments

drawn by \_\_\_\_\_ checked by \_\_\_\_\_

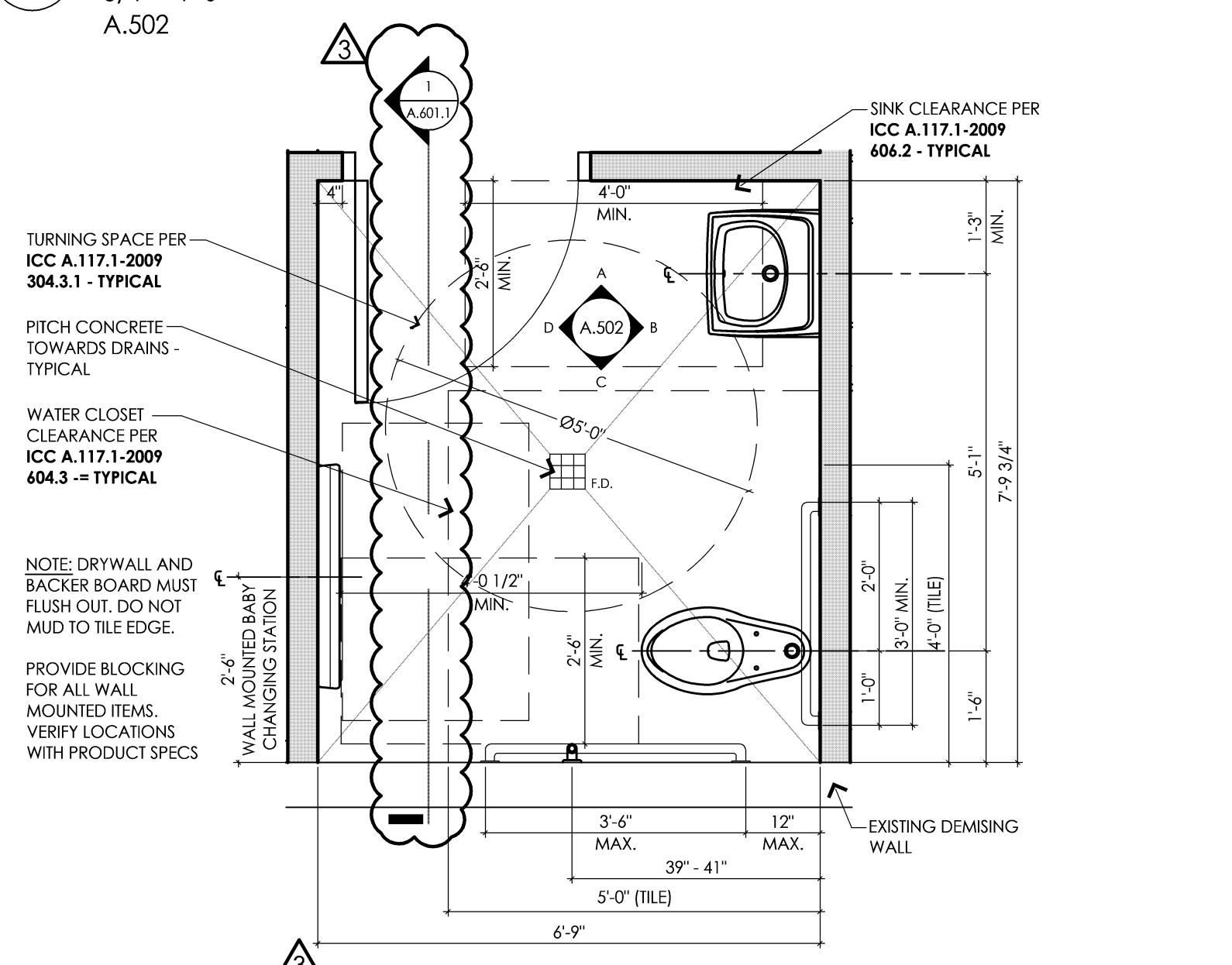
Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

B.F. Restroom Enlarged  
Plans and Interior  
Elevations

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

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Southfield, Michigan 48076  
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job number 22006 sheet number A.502

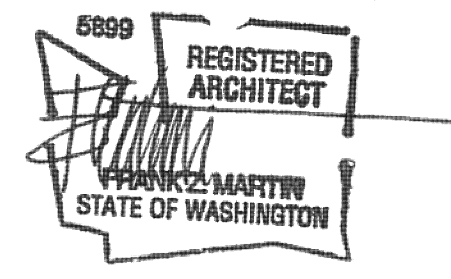


**1** Enlarged Women's B.F. Toilet 109  
1/2" = 1'-0"

PRCTI20221793

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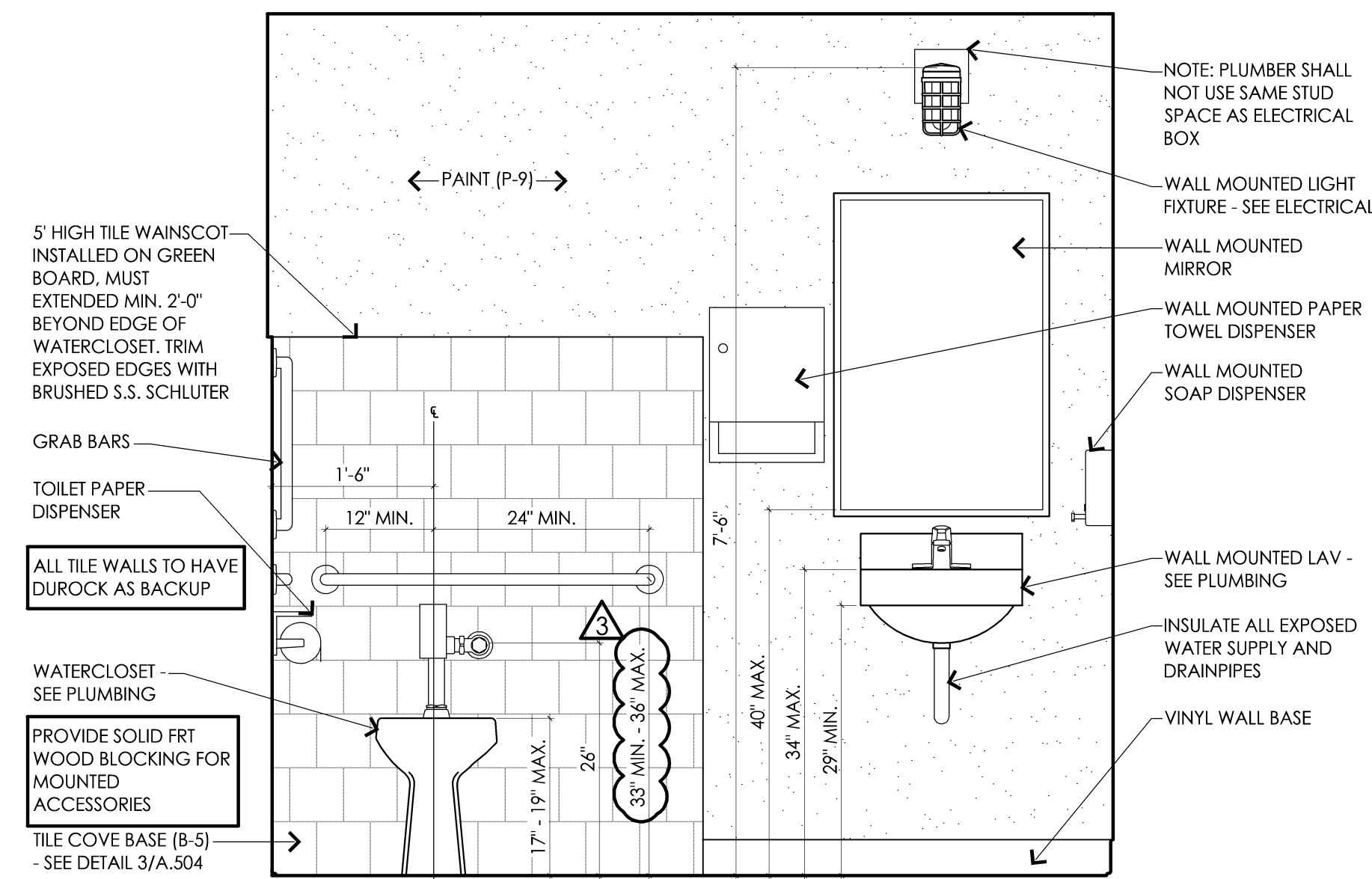


architect seal

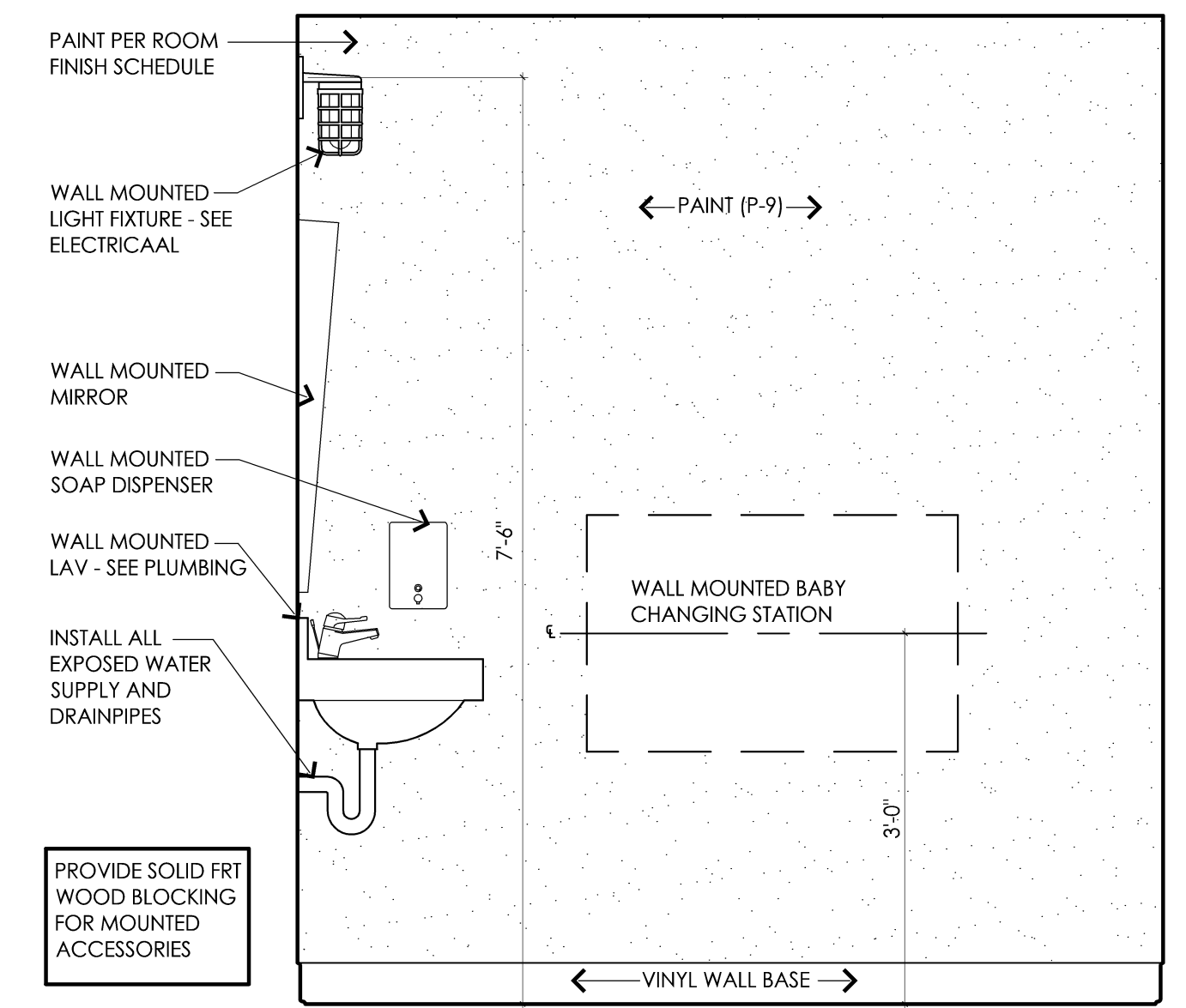
**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

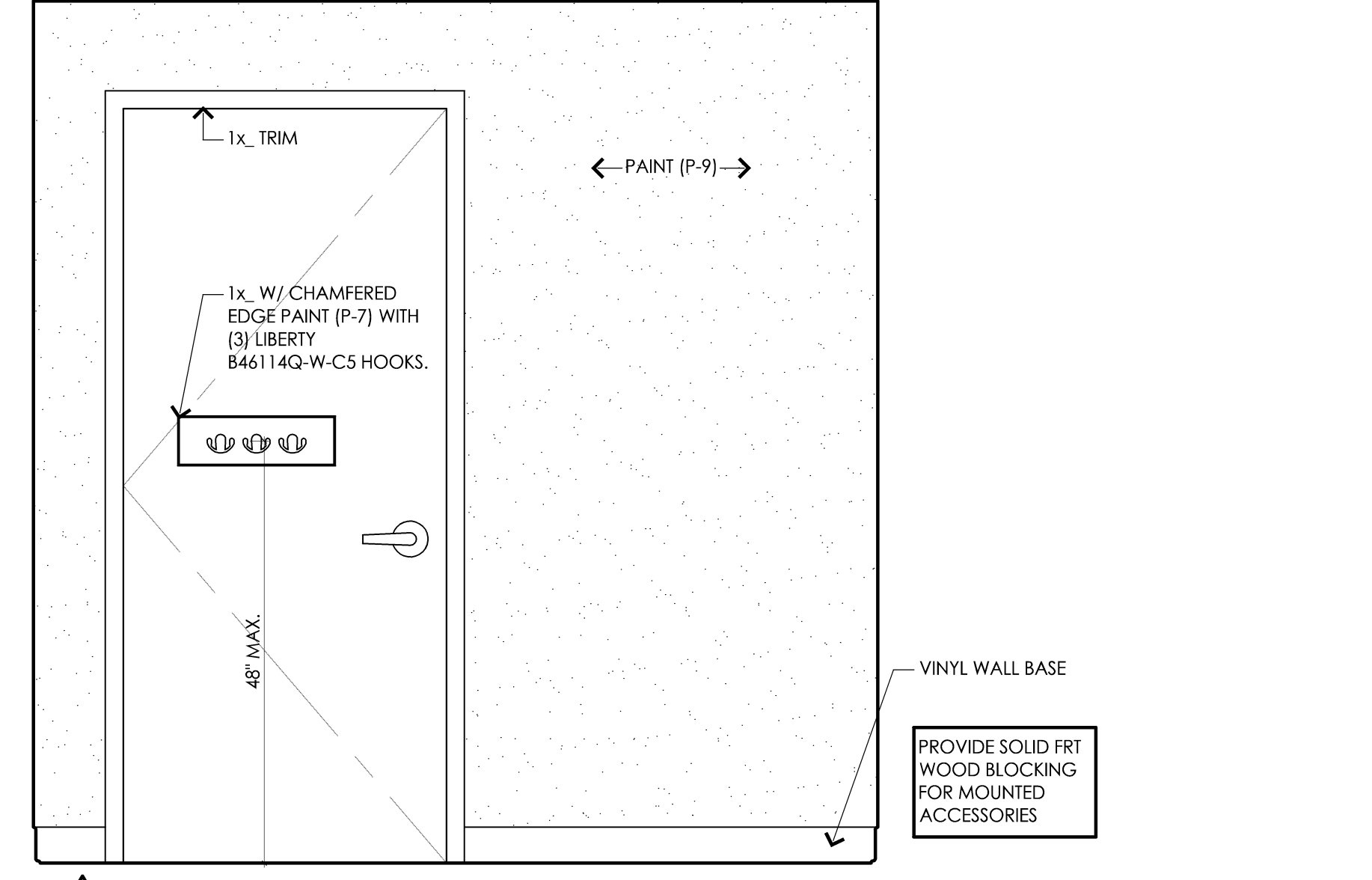
**604.3 Location.**  
The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition. Water closets located in ambulatory accessible toilet compartments specified in Section 604.10 shall have the centerline of the water closet 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition.



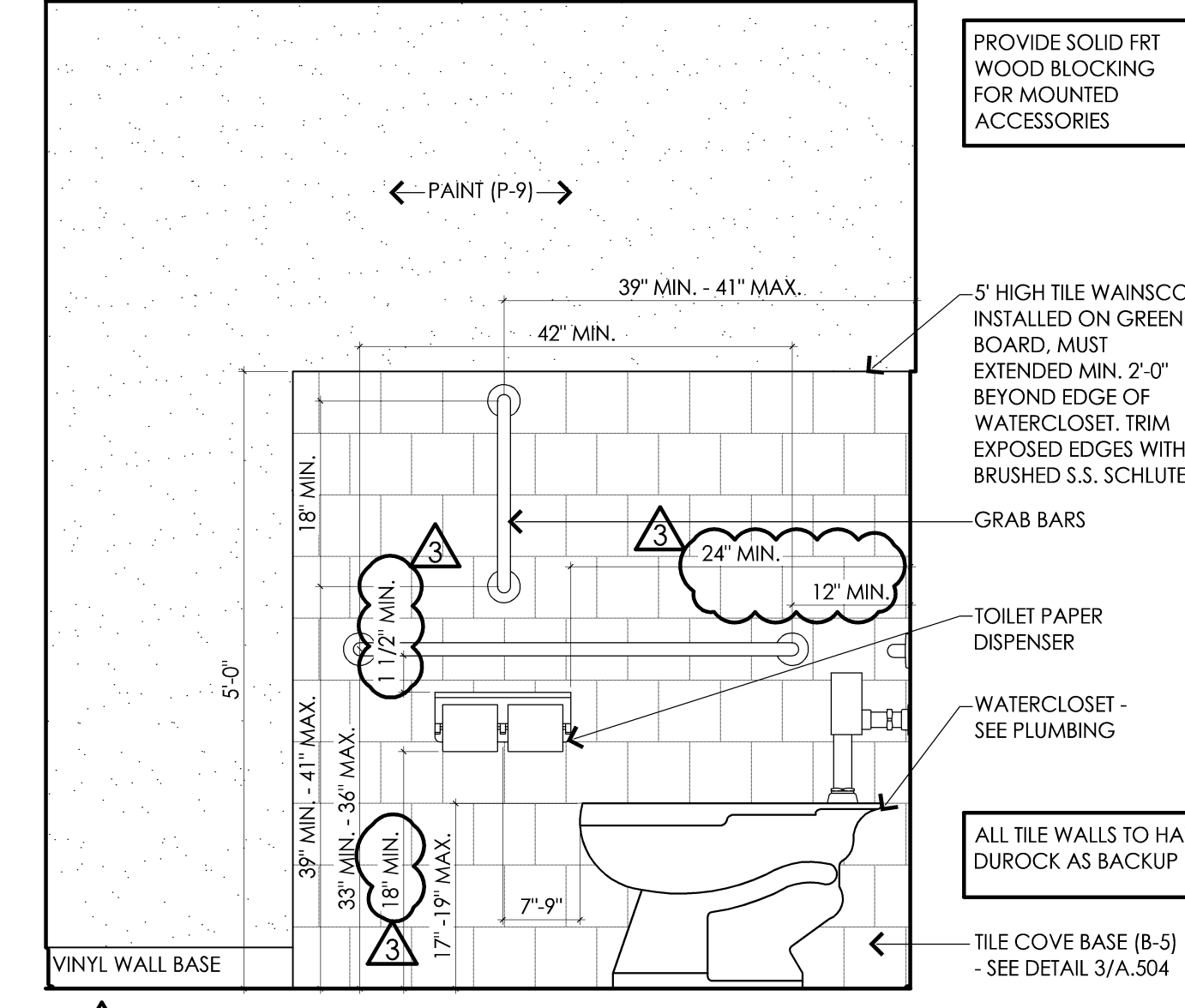
**C Gender Neutral B.F. Toilet 114 Interior Elevation**  
3/4" = 1'-0"  
A.503



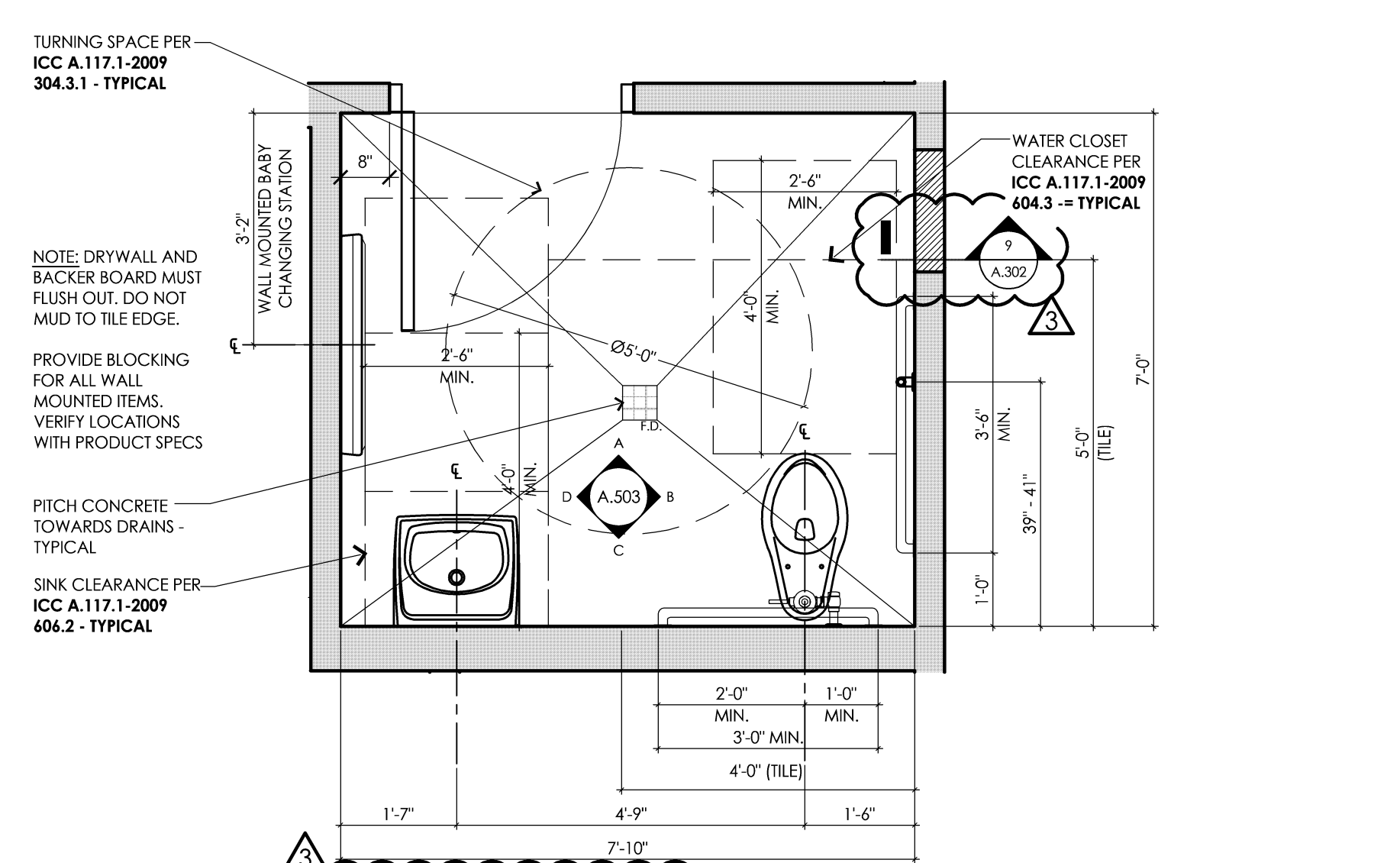
**D Gender Neutral B.F. Toilet 114 Interior Elevation**  
3/4" = 1'-0"  
A.503



**A Gender Neutral B.F. Toilet 114 Interior Elevation**  
3/4" = 1'-0"  
A.503



**B Gender Neutral B.F. Toilet 114 Interior Elevation**  
3/4" = 1'-0"  
A.503



**1 Enlarged Gender Neutral B.F. Toilets 114**  
1/2" = 1'-0"  
A.100

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
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issue / revision date

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01-11-23	Owner Review
02-09-23	City Review Comments
02-09-23	DOH Review Comments
02-09-23	Elect. Review Comments

drawn by \_\_\_\_\_ checked by \_\_\_\_\_

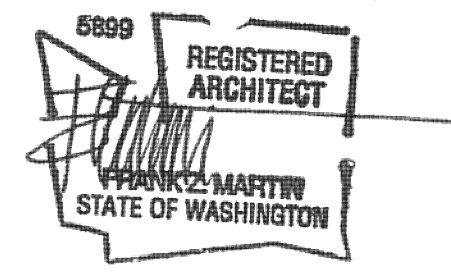
project: **Goldfish Swim School**  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
**B.F. Restroom Enlarged Plans**  
and Interior Elevations

sheet title:

**dma**  
DORCHEN / MARTIN  
Dorchen/Martin Associates, Inc.  
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29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
www.dorchenmartin.com

job number **22006** sheet number **A.503**

**PRCTI20221793**



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City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

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approval.



issue / revision date	
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02-09-23 City Review Comments	
02-09-23 DOH Review Comments	
02-09-23 Elect. Review Comments	

drawn by \_\_\_\_\_ checked by \_\_\_\_\_

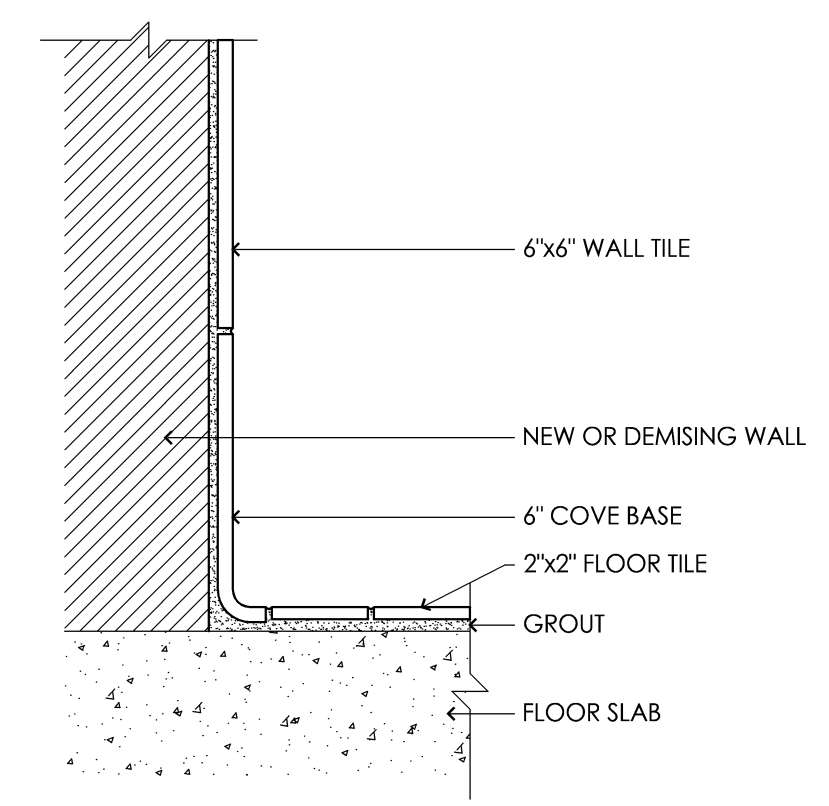
Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

B.F. Private Showers  
Enlarged Plan and Interior  
Elevations

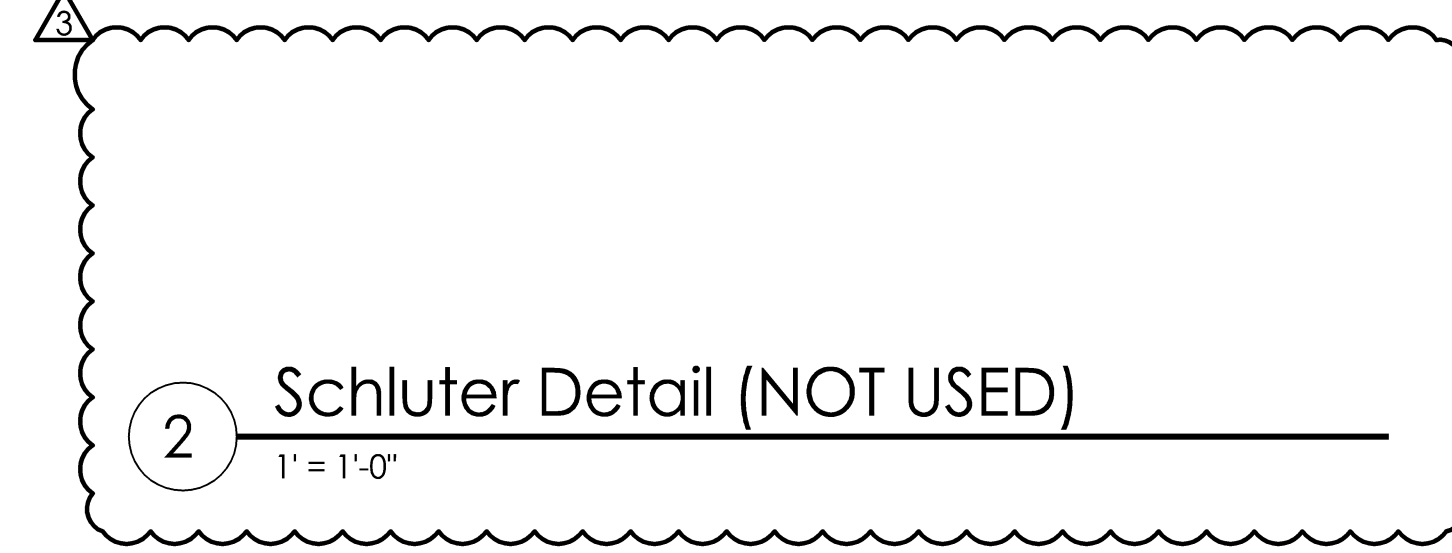
project: \_\_\_\_\_ sheet title: \_\_\_\_\_

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Dorchen/Martin Associates, Inc.  
Architects/Planners  
29895 Greenfield Rd., Suite 107  
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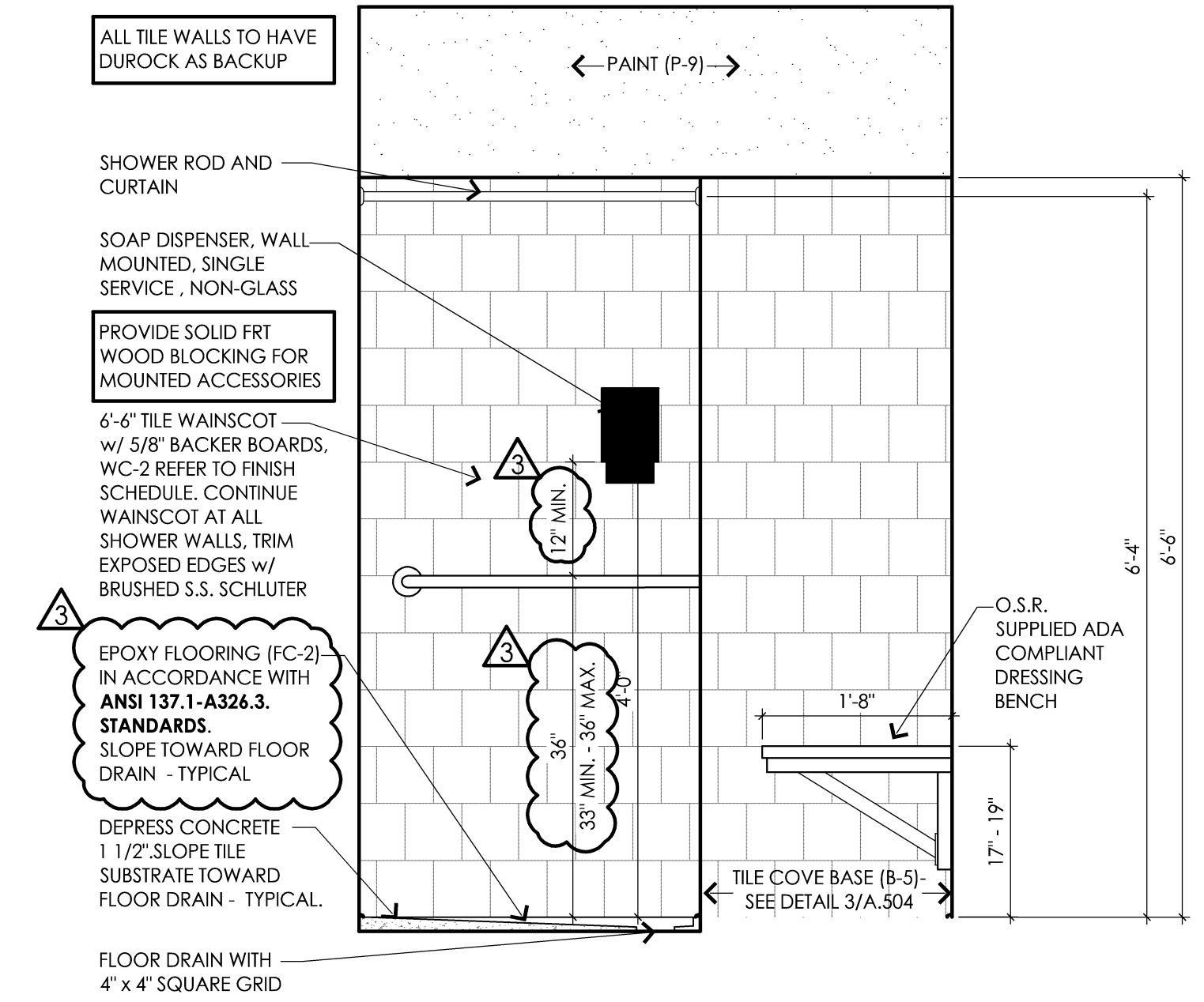
job number 22006 sheet number A.504



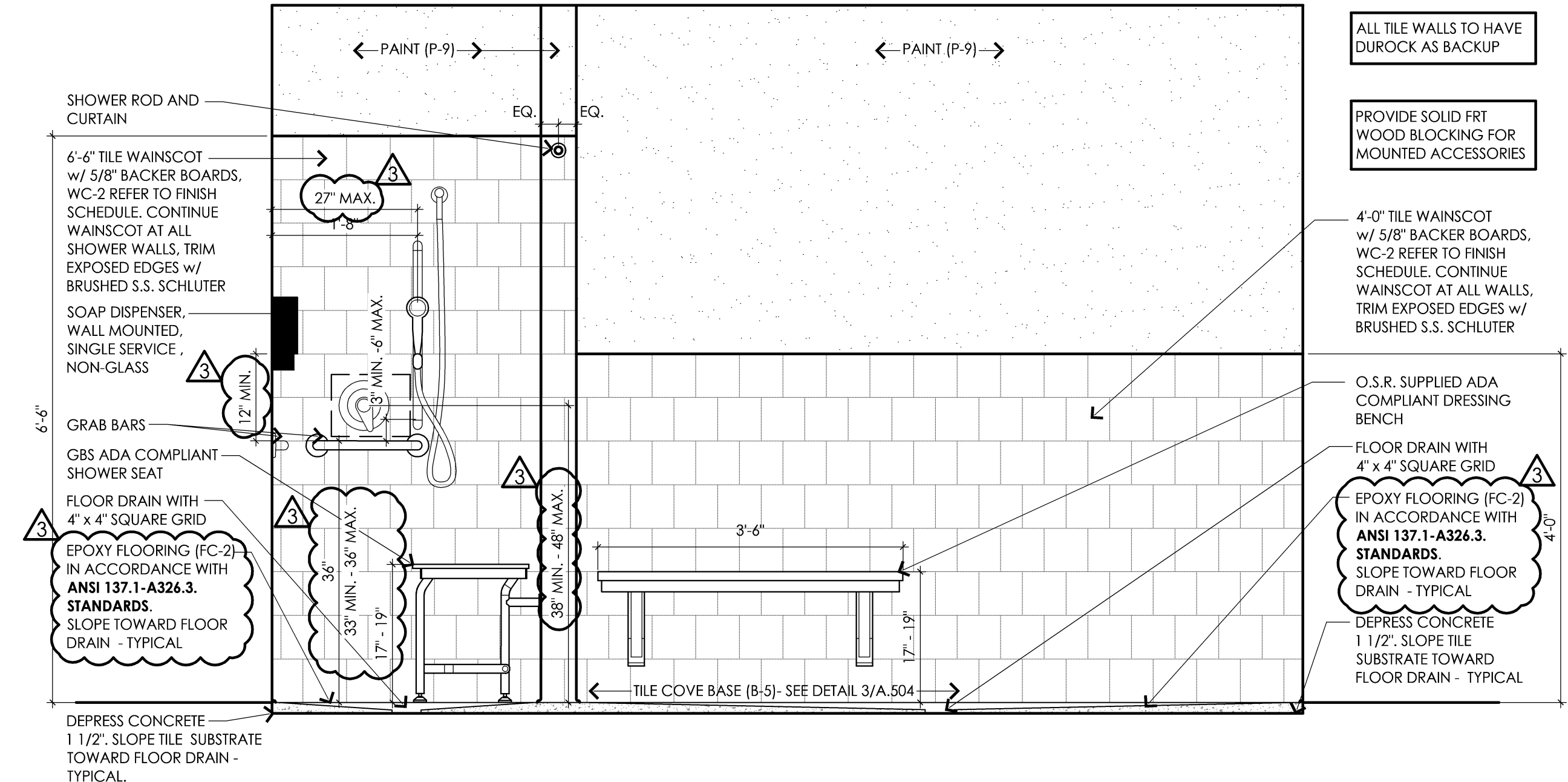
3 Cove Tile Detail  
3" = 1'-0"



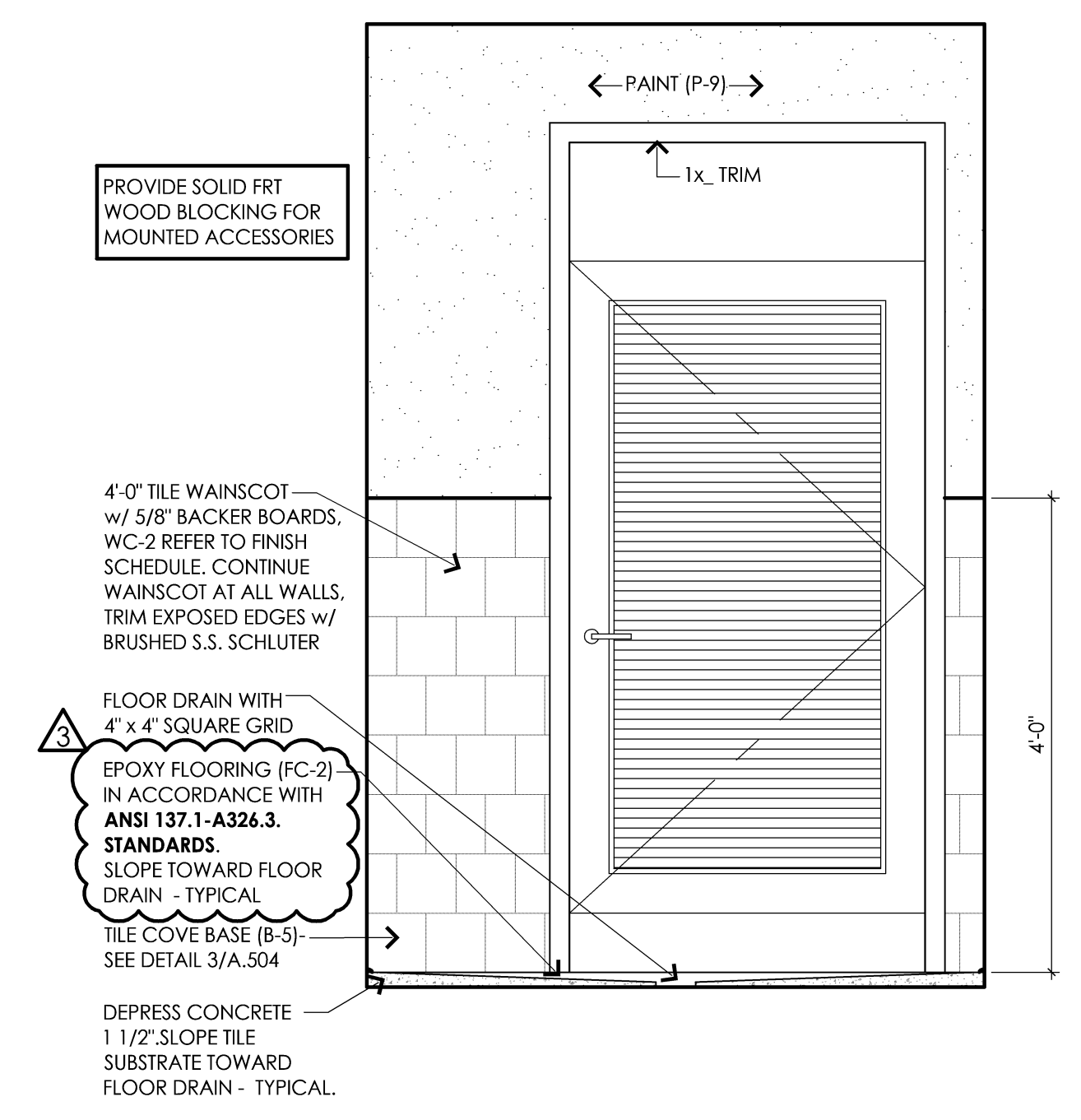
2 Sluiter Detail (NOT USED)  
1' = 1'-0"



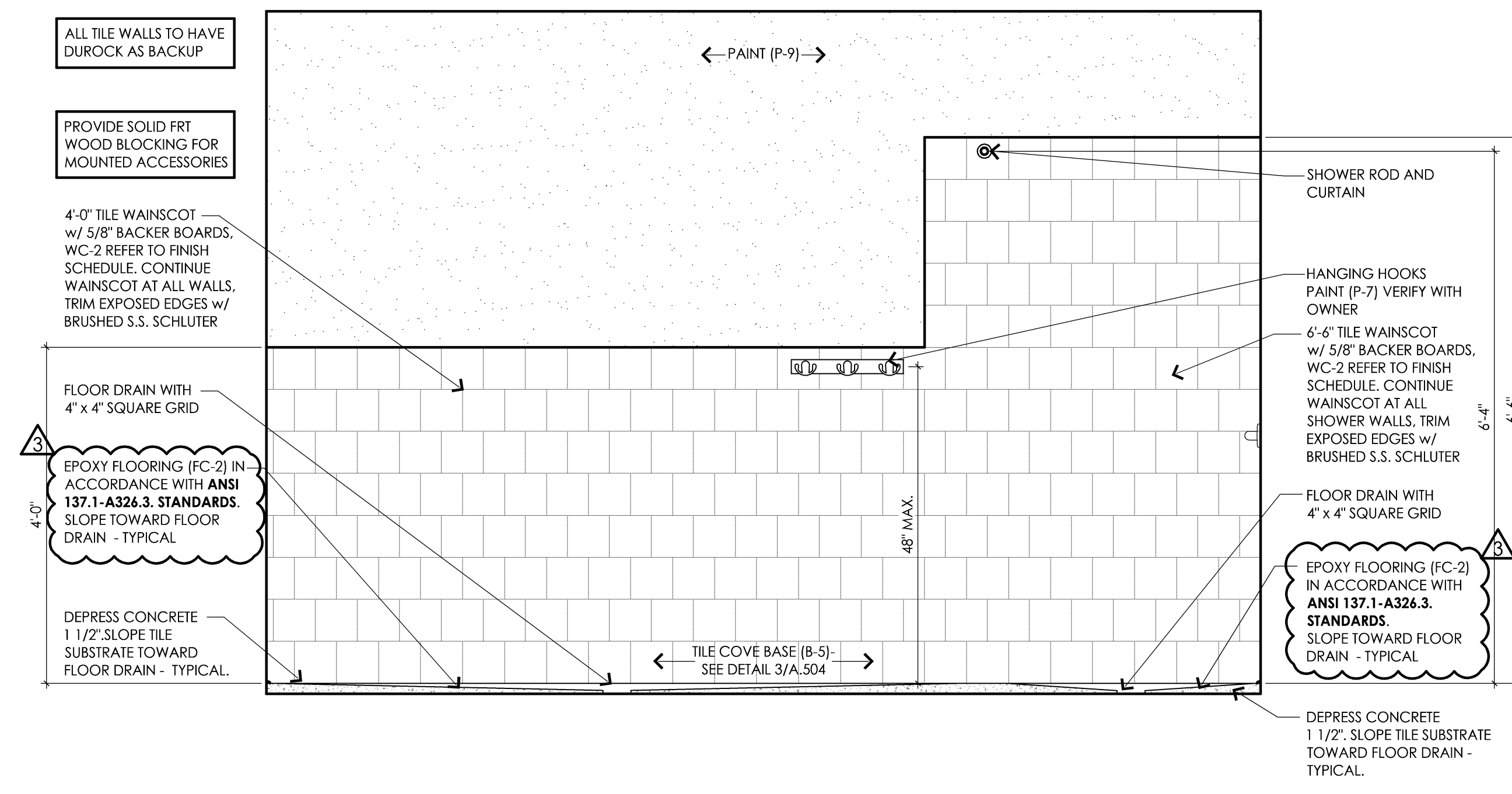
C Alternate Roll In B.F. Shower Interior Elevation  
3/4" = 1'-0"  
A.504



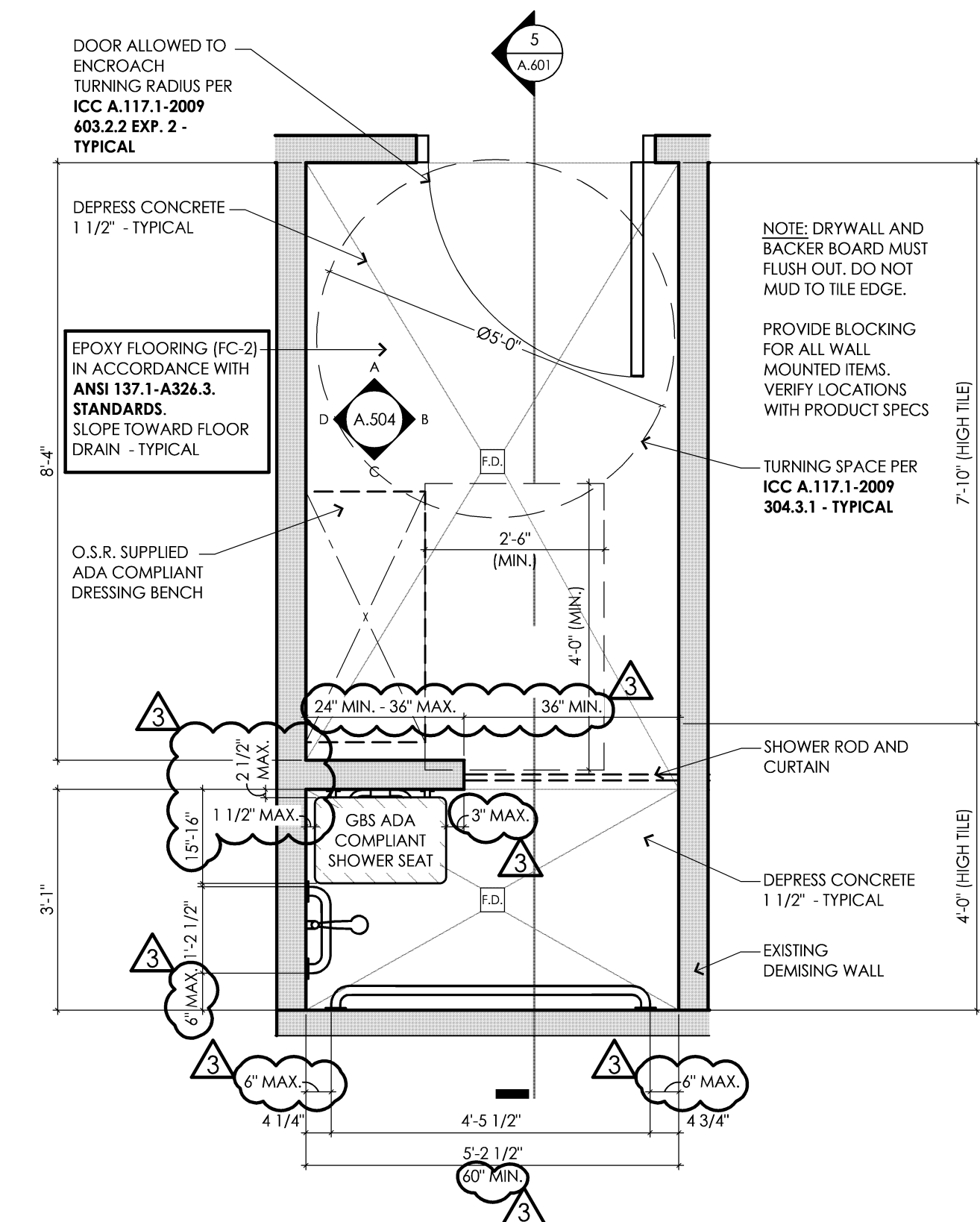
D Alternate Roll In B.F. Shower Interior Elevation  
3/4" = 1'-0"  
A.504



A Alternate Roll In B.F. Shower Interior Elevation  
3/4" = 1'-0"  
A.100

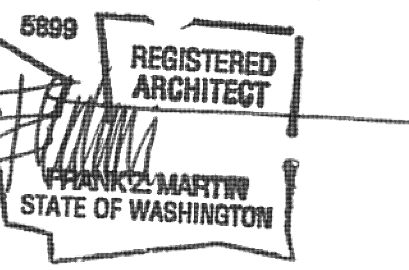


B Alternate Roll In B.F. Shower Interior Elevation  
3/4" = 1'-0"  
A.100



1 Enlarged Alternate Roll In B.F. Shower  
1/2" = 1'-0"  
A.100

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City of Puyallup Development & Permitting Services <b>ISSUED PERMIT</b>	
Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
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issue / revision date
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01-11-23 Owner Revision
02-09-23 City Review Comments
02-09-23 DOH Review Comments
02-09-23 Elect. Review Comments

drawn by

checked by

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

project: Shower Room Enlarged Plan and Interior Elevations

sheet title:

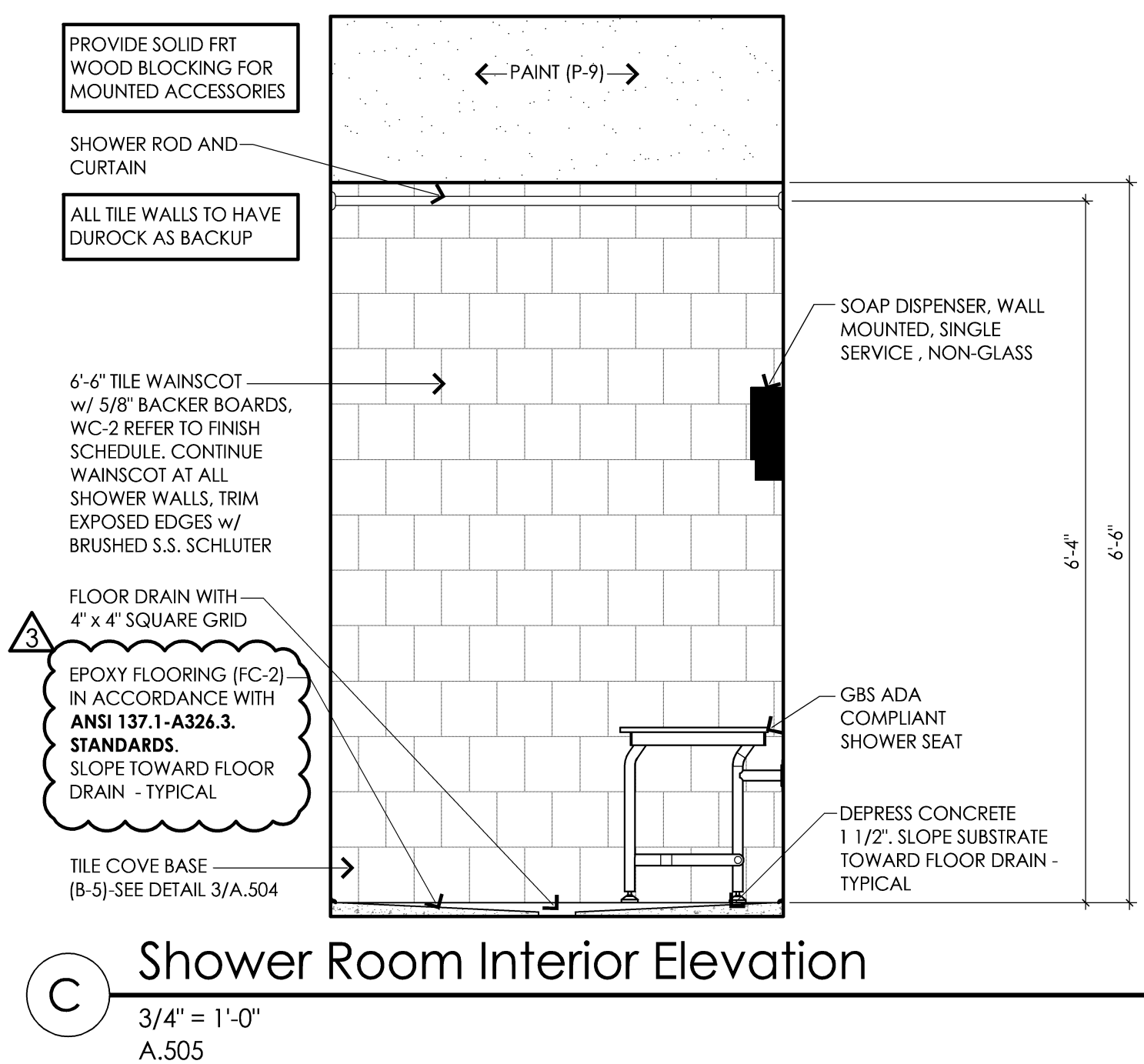
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Dorchen/Martin Associates, Inc.  
Architects/Planners  
29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
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job number

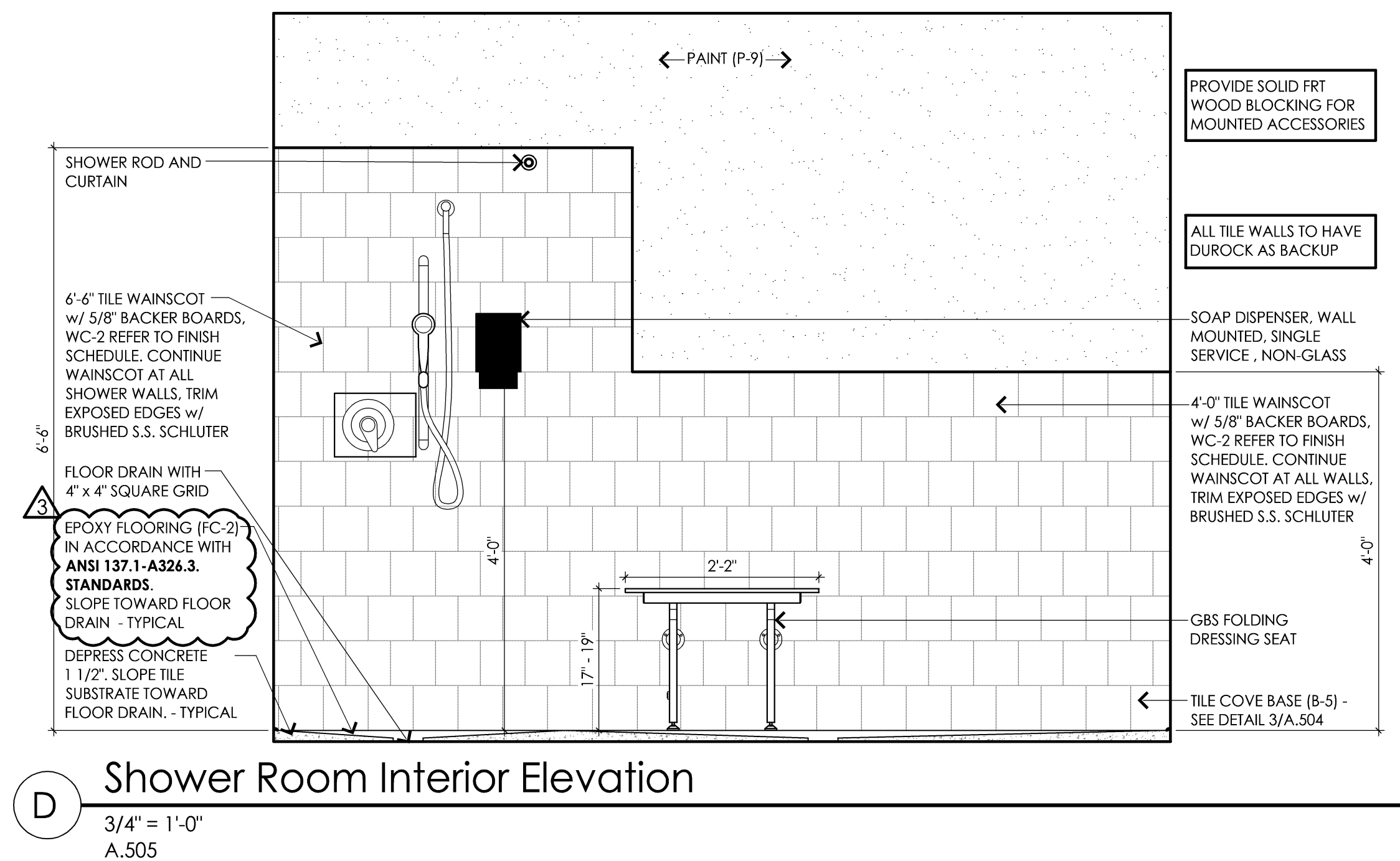
sheet number

22006

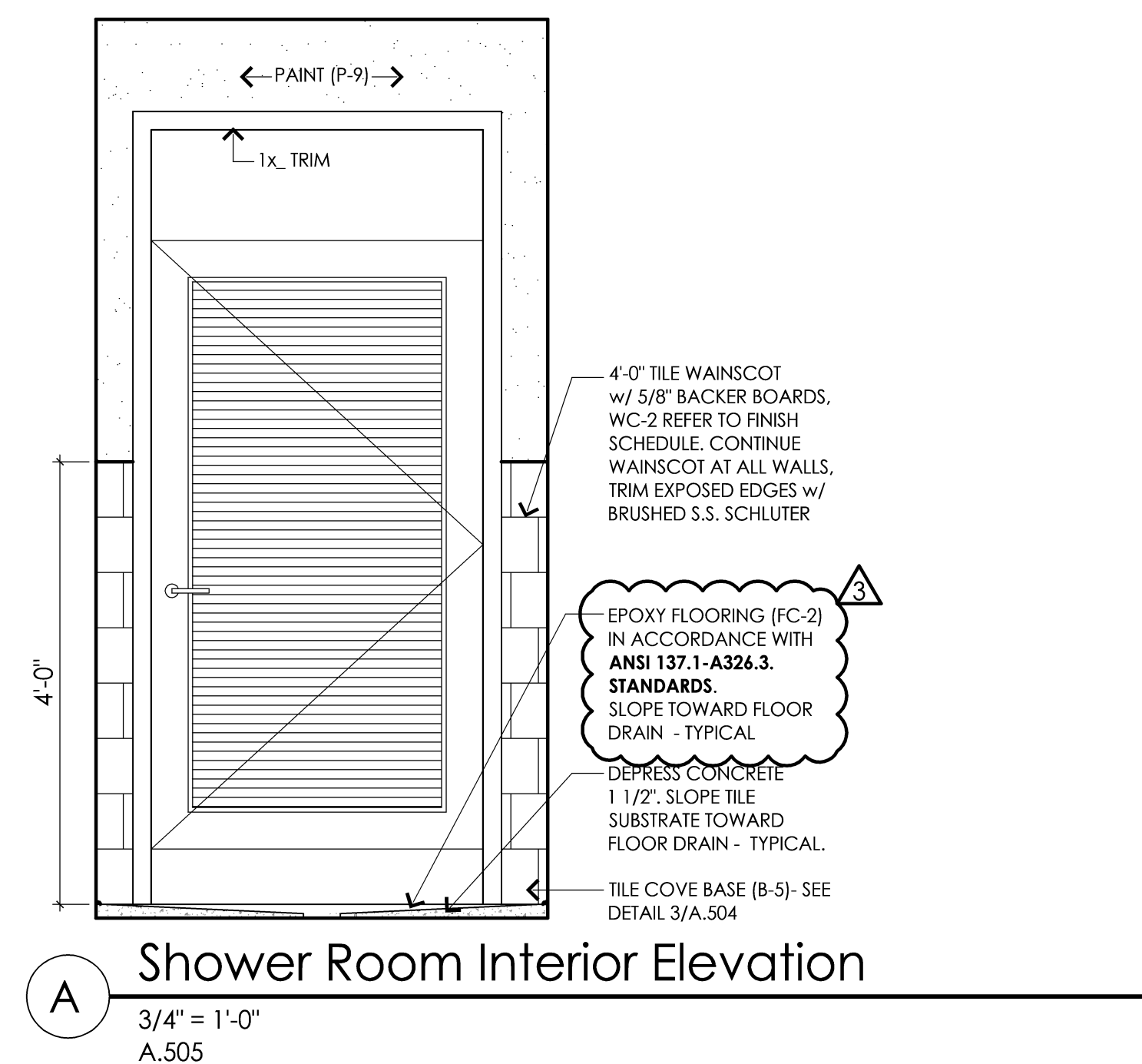
A.505



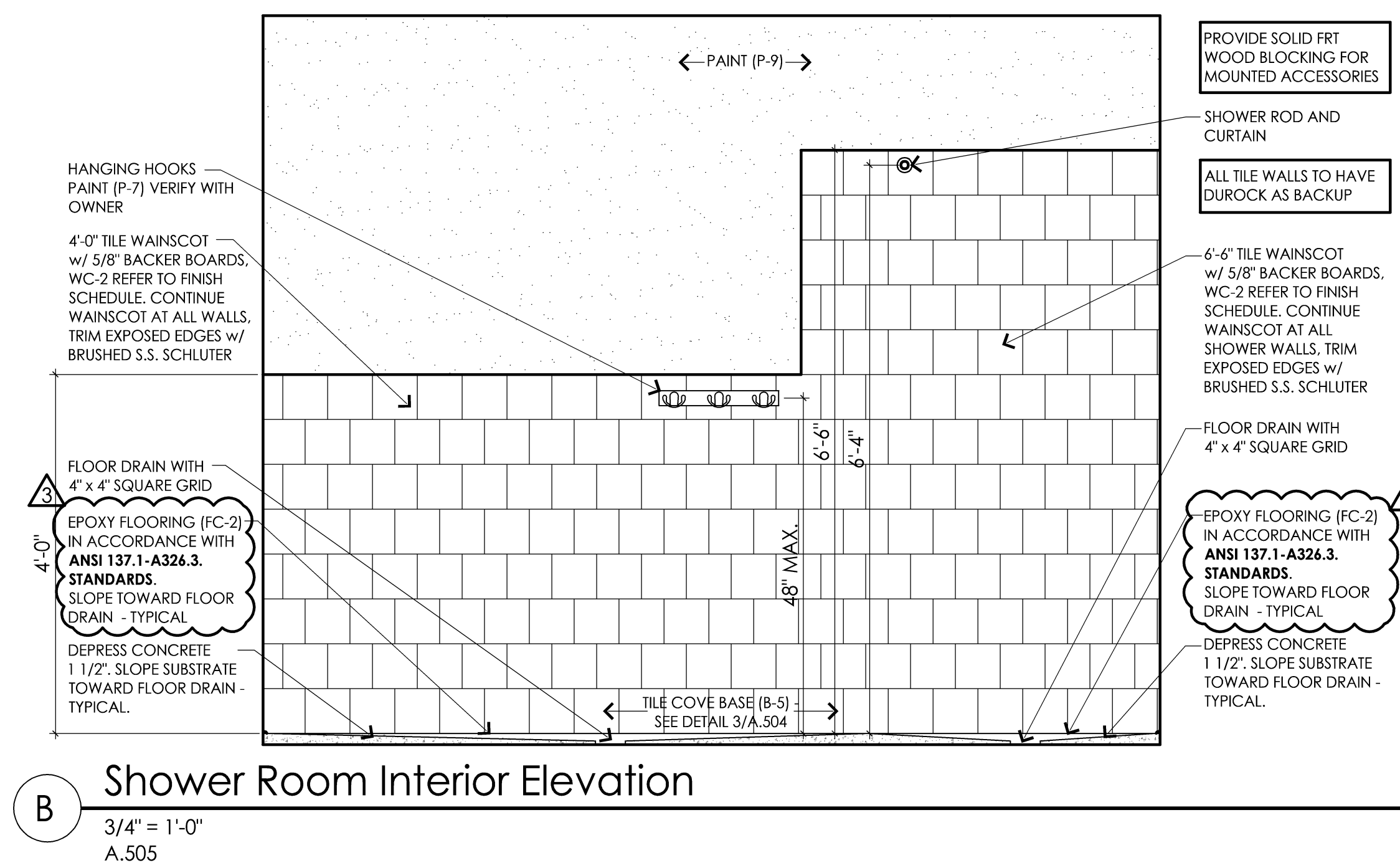
C Shower Room Interior Elevation



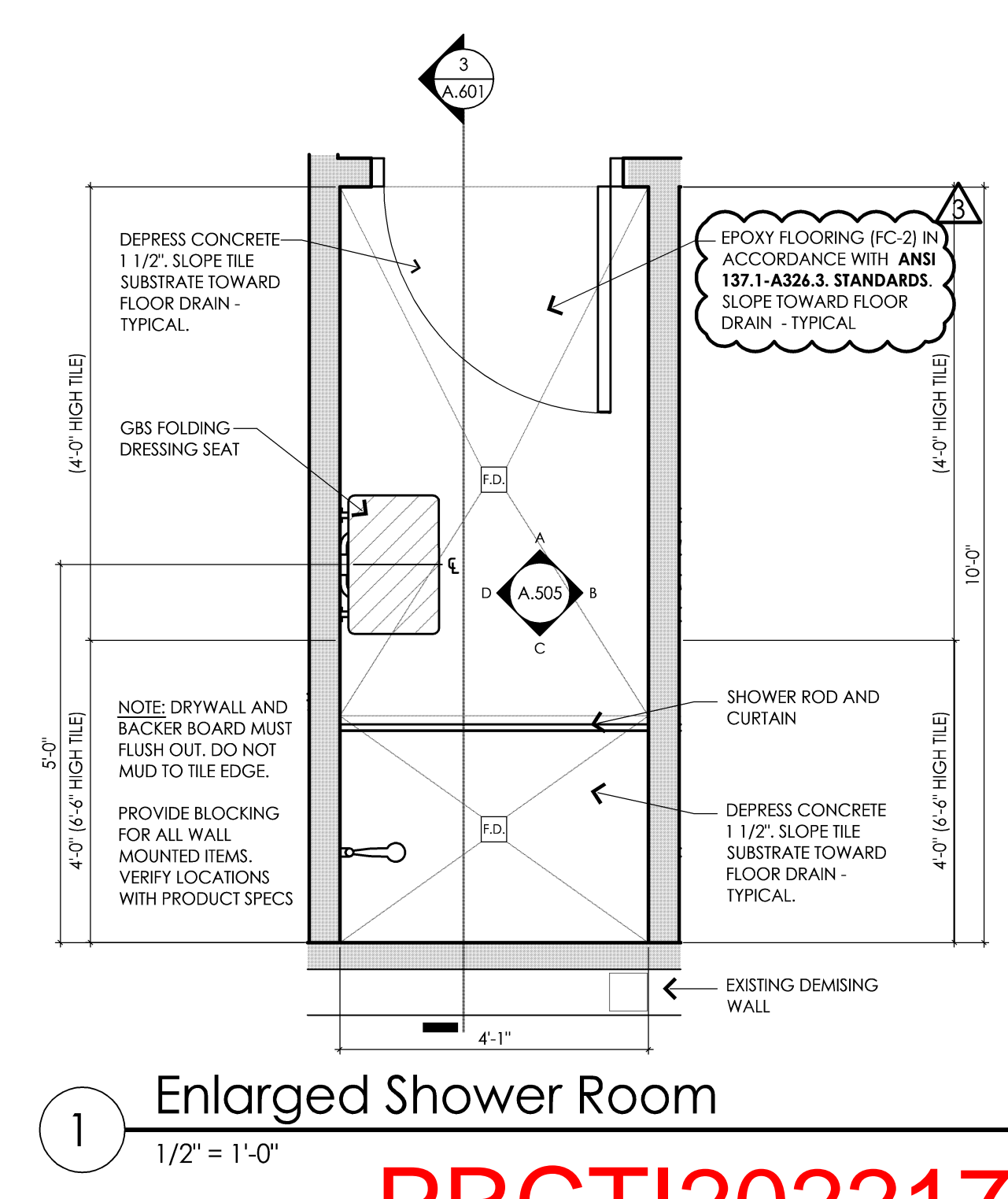
D Shower Room Interior Elevation



A Shower Room Interior Elevation

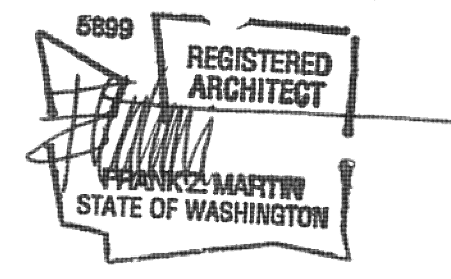


B Shower Room Interior Elevation



1 Enlarged Shower Room

PRCTI20221793



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**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

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02-09-23	DOH Review Comments
02-09-23	Elect. Review Comments

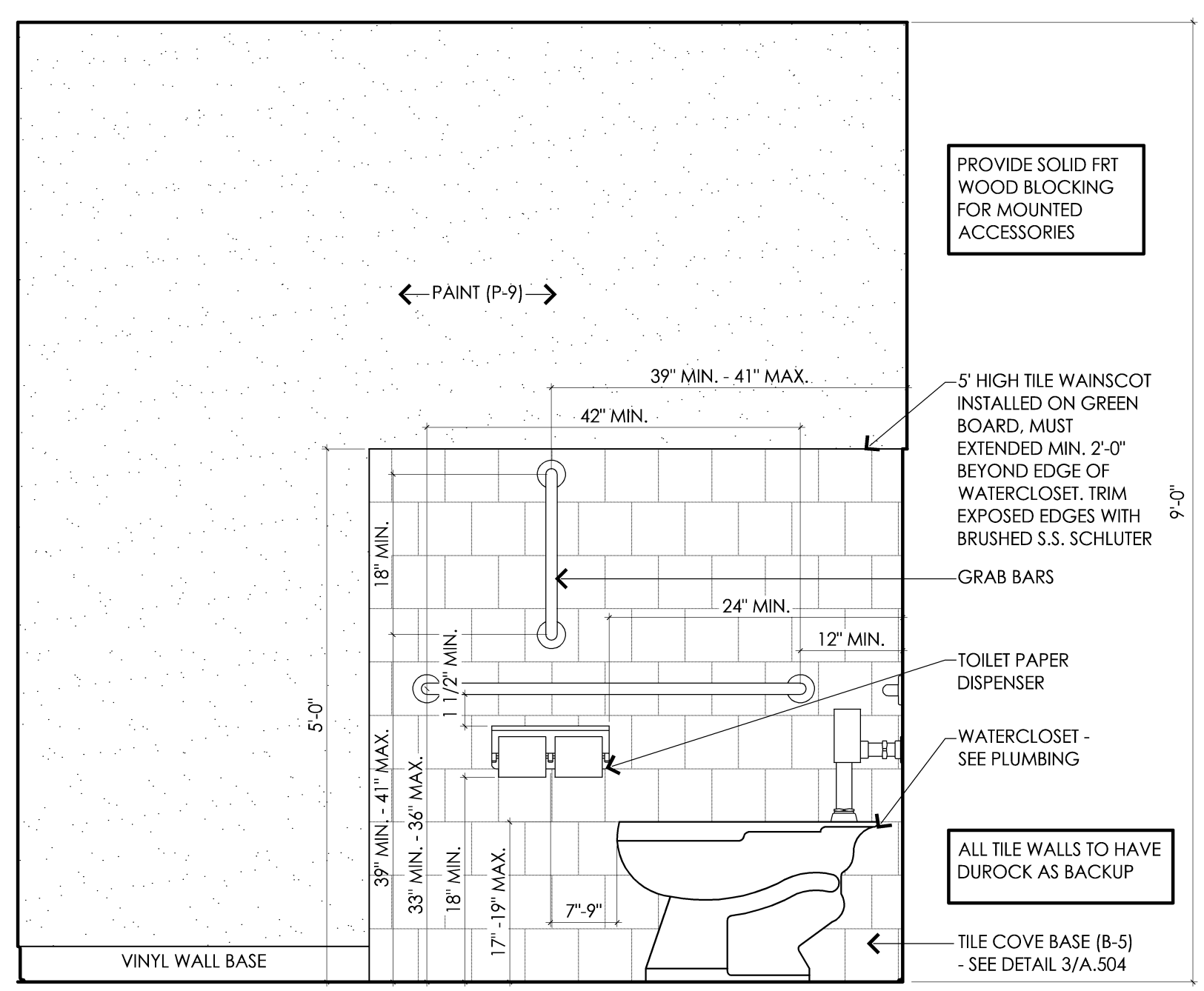
drawn by \_\_\_\_\_ checked by \_\_\_\_\_

project: **Goldfish Swim School**  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
**B.F. Restroom Enlarged Plans**  
and Interior Elevations

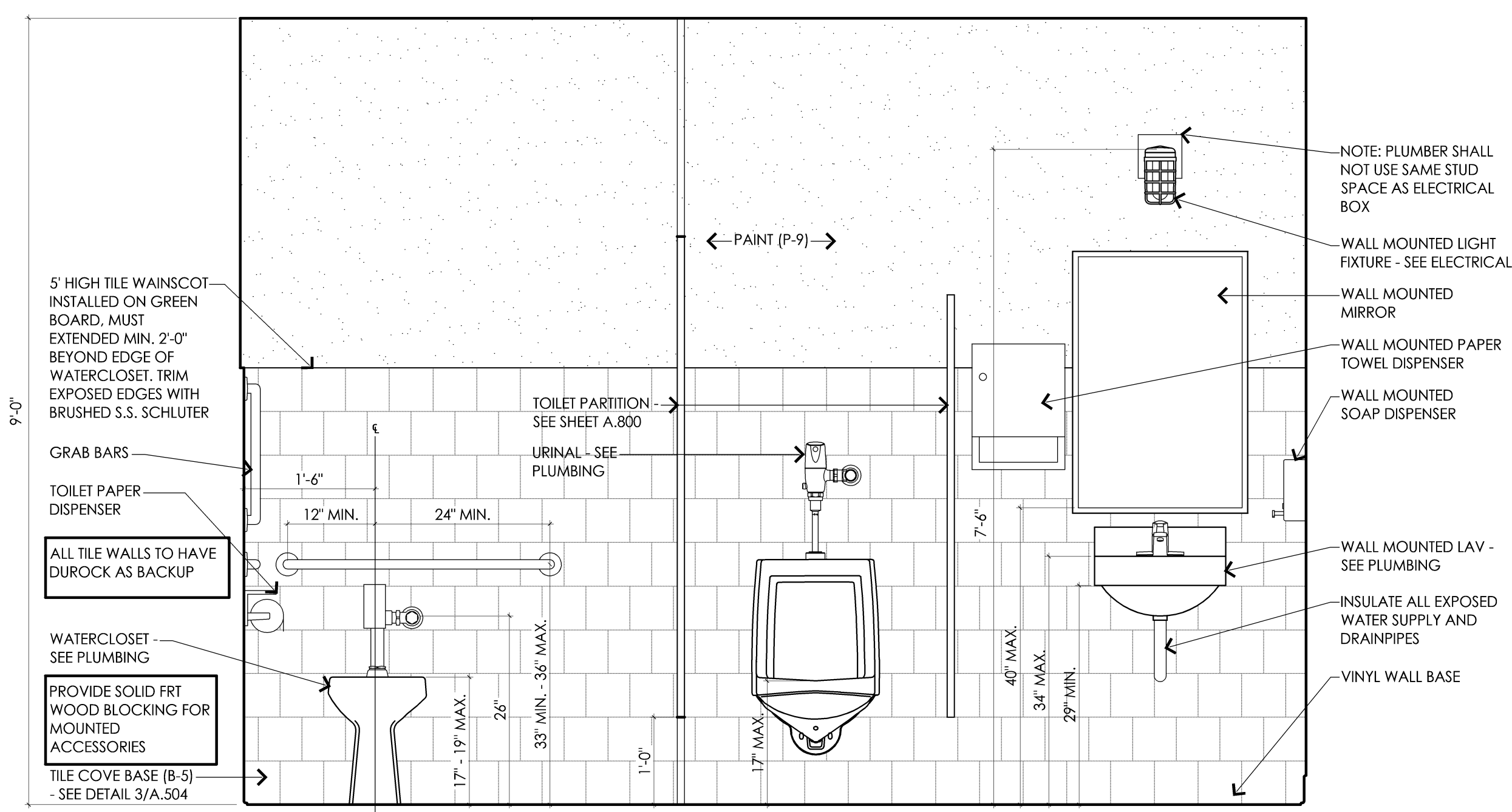
sheet title:

**dma**  
DORCHEN / MARTIN  
Dorchen/Martin Associates, Inc.  
Architects/Planners  
29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
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job number **22006** sheet number **A.506**

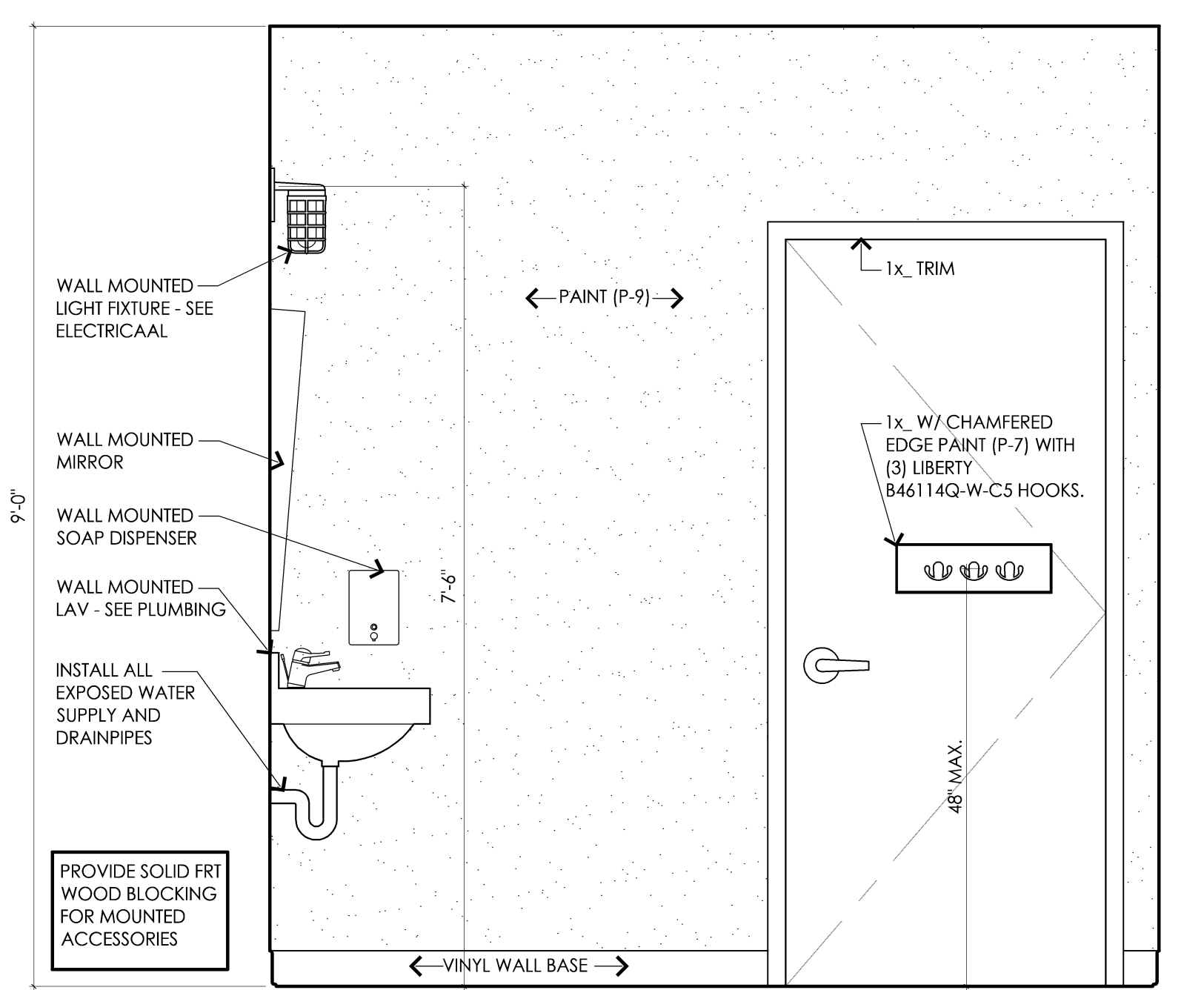


**C** Men's B.F. Toilet 104 Interior Elevation  
3/4" = 1'-0"  
A.506

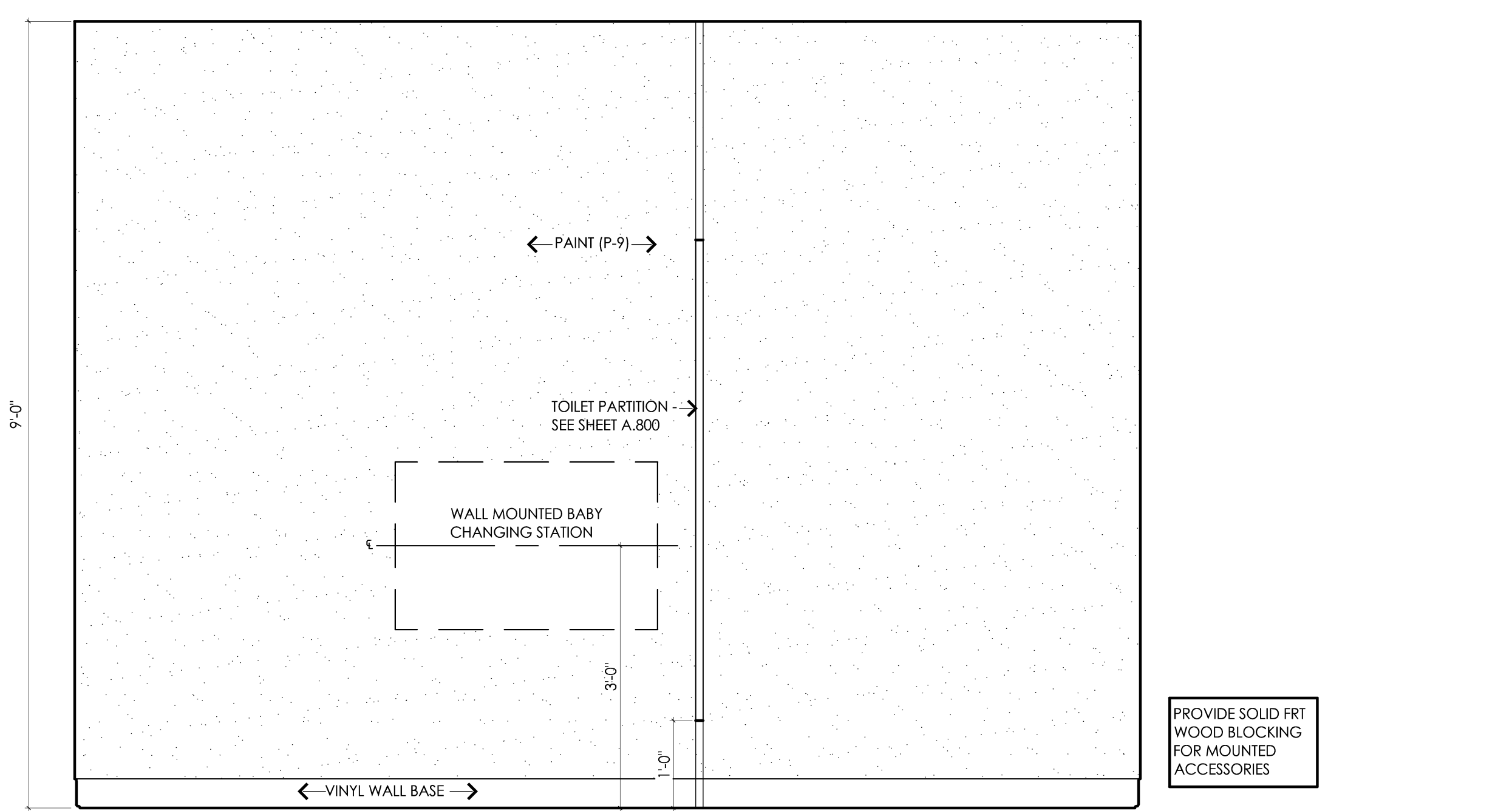


**D** Men's B.F. Toilet 104 Interior Elevation  
3/4" = 1'-0"  
A.506

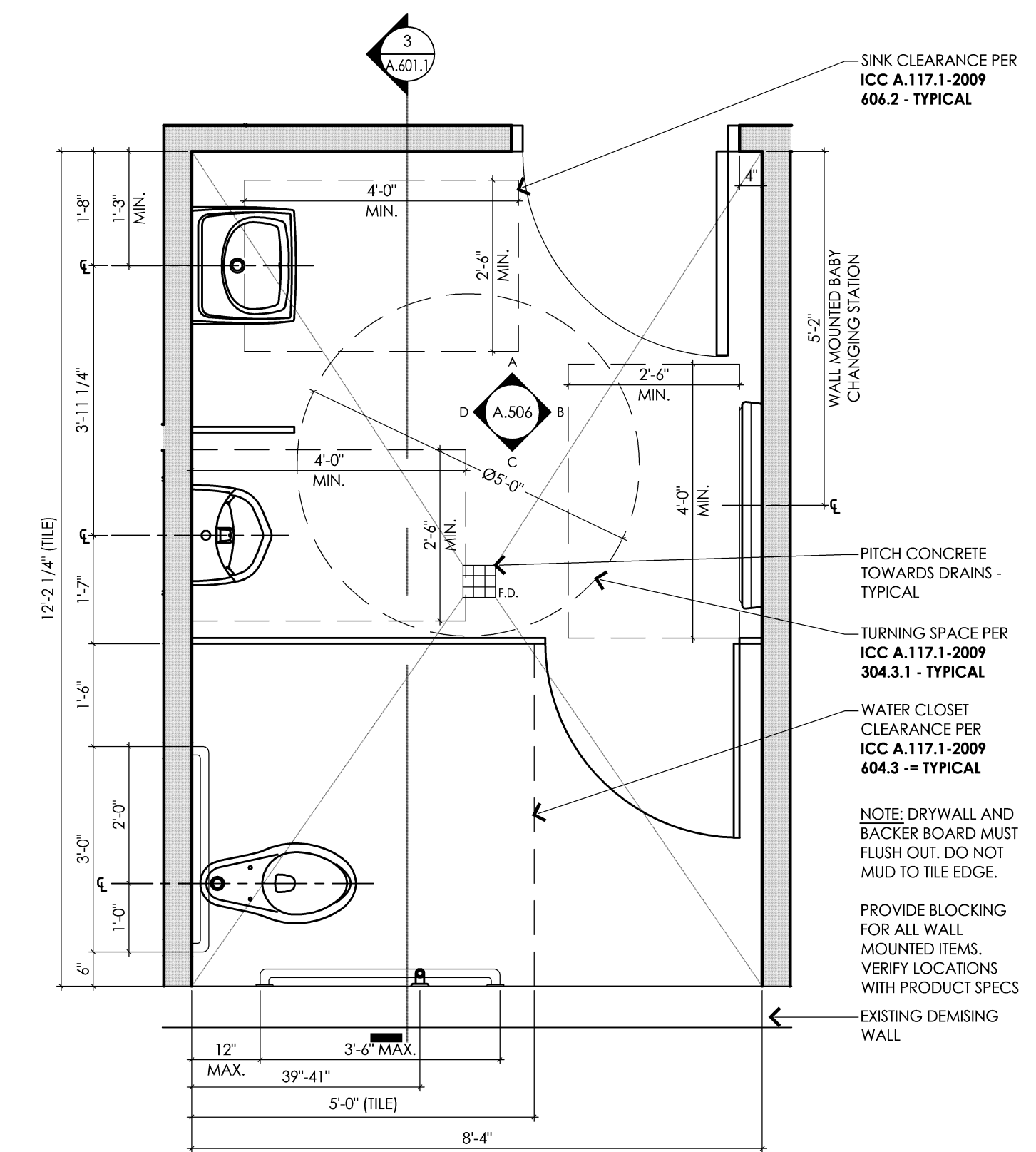
**604.2 Location.**  
The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition. Water closets located in ambulatory accessible toilet compartments specified in Section 604.10 shall have the centerline of the water closet 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition.



**A** Men's B.F. Toilet 104 Interior Elevation  
3/4" = 1'-0"  
A.506

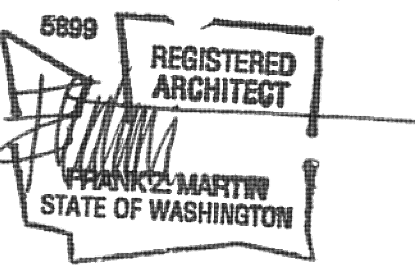


**B** Men's B.F. Toilet 104 Interior Elevation  
3/4" = 1'-0"  
A.506



**1** Enlarged Men's B.F. Toilets 104  
1/2" = 1'-0"  
A.100

**PRCTI20221793**



architect seal

General Changing Hut Notes:

- FIVE (5) PERCENT, BUT NEVER LESS THAN ONE, OF CHANGING ROOMS SHALL BE ACCESSIBLE PER ADA CODE.
- REFER TO CHANGING HUT ELEVATION SHEETS AND SECTION SHEETS FOR ADDITIONAL NOTES AND INFORMATION.
- ALL WOOD STUDS, BLOCKING AND RAFTER TO BE FIRE RETARDANT (CLEAR), PRE-FINISHED
- DO NOT USE ANY SPLIT, CUT, DAMAGED, ETC., WOOD STUDS AT EXPOSED WALL CONSTRUCTION.
- HARDIE PANELS ARE TO BE PROPERLY NAILED, FILLED, AND PAINTED. NO EXPOSED NAILS AT INTERIOR SIDE. BRAD NAILS AND CONSTRUCTION ADHESIVE TO BE USED. **(NO SCREWS, NO NAIL HEADS)**
- LAY-OUT OF PANELS TO BE REVIEWED BY GFSS CONSTRUCTION ADVISOR PRIOR TO INSTALLATION.
- CHANGING HUT BENCHES: REFER TO SHOP DRAWINGS PROVIDED BY ONE SOURCE RETAIL. PROVIDE BLOCKING IN EXTERIOR WALL AS REQUIRED FOR ATTACHMENT. MIN. REQUIREMENTS: 20"x42" BENCH FIXED TO THE WALL ALONG THE LONGER DIM. SHALL BE MOUNTED 17'-19" A.F.F.

**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



issue / revision date

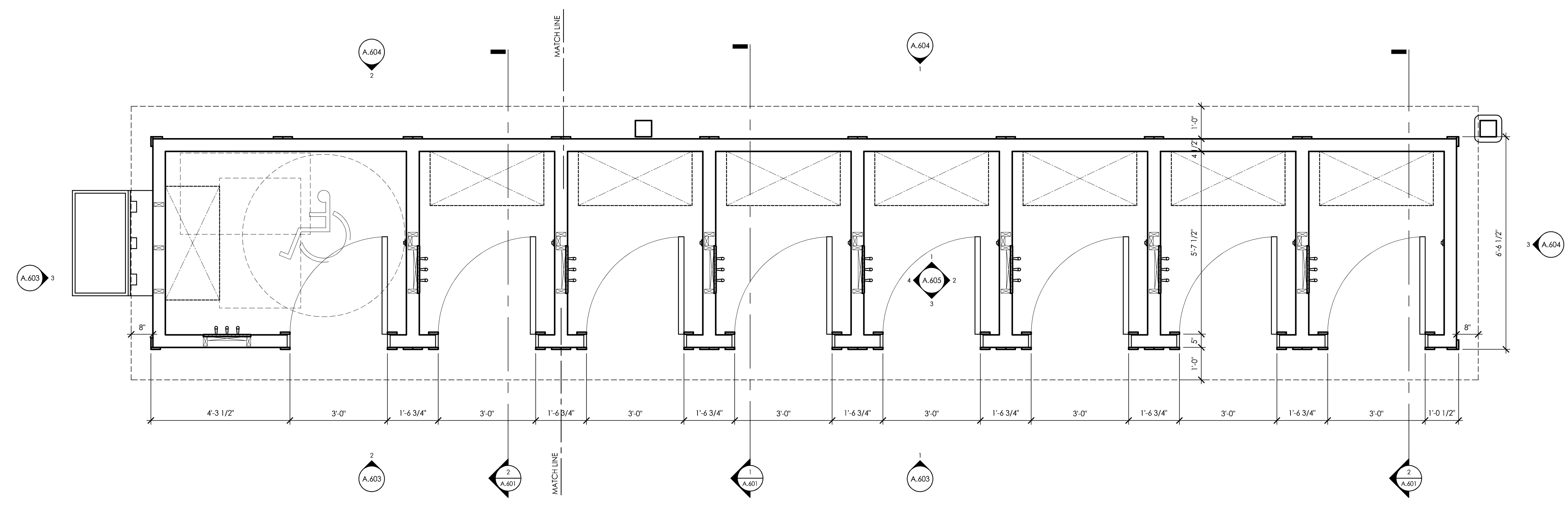
10-07-22 Staggered Review
11-07-22 Preliminary Budget Review
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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
Changing Hut Plans  
project: \_\_\_\_\_ sheet title: \_\_\_\_\_

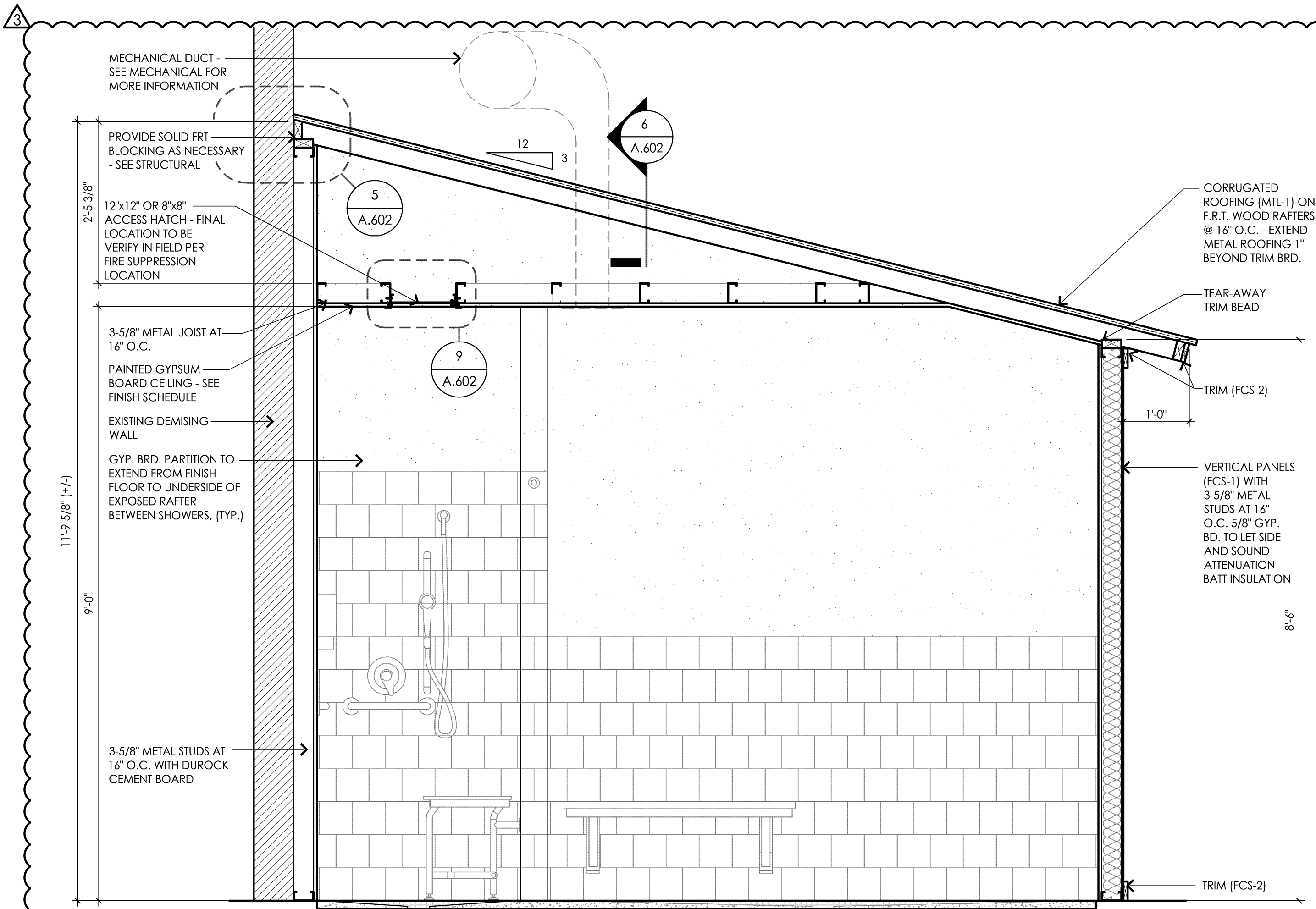
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Dorchen/Martin Associates, Inc.  
Architects/Planners  
29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
www.dorchenmartin.com

job number 22006 sheet number A.600

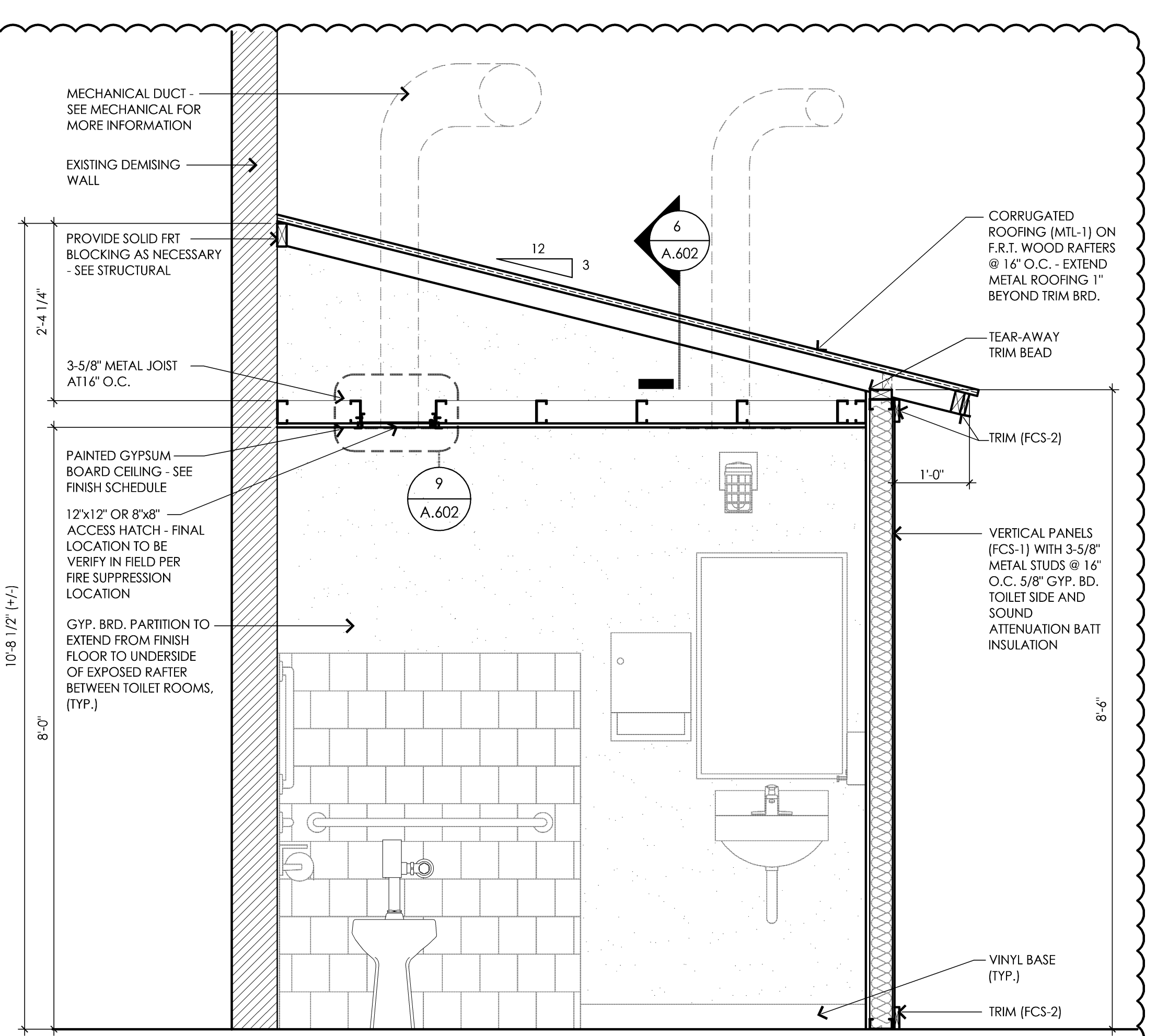


1 Changing Huts Plan  
1/2" = 1'-0"  
A.100

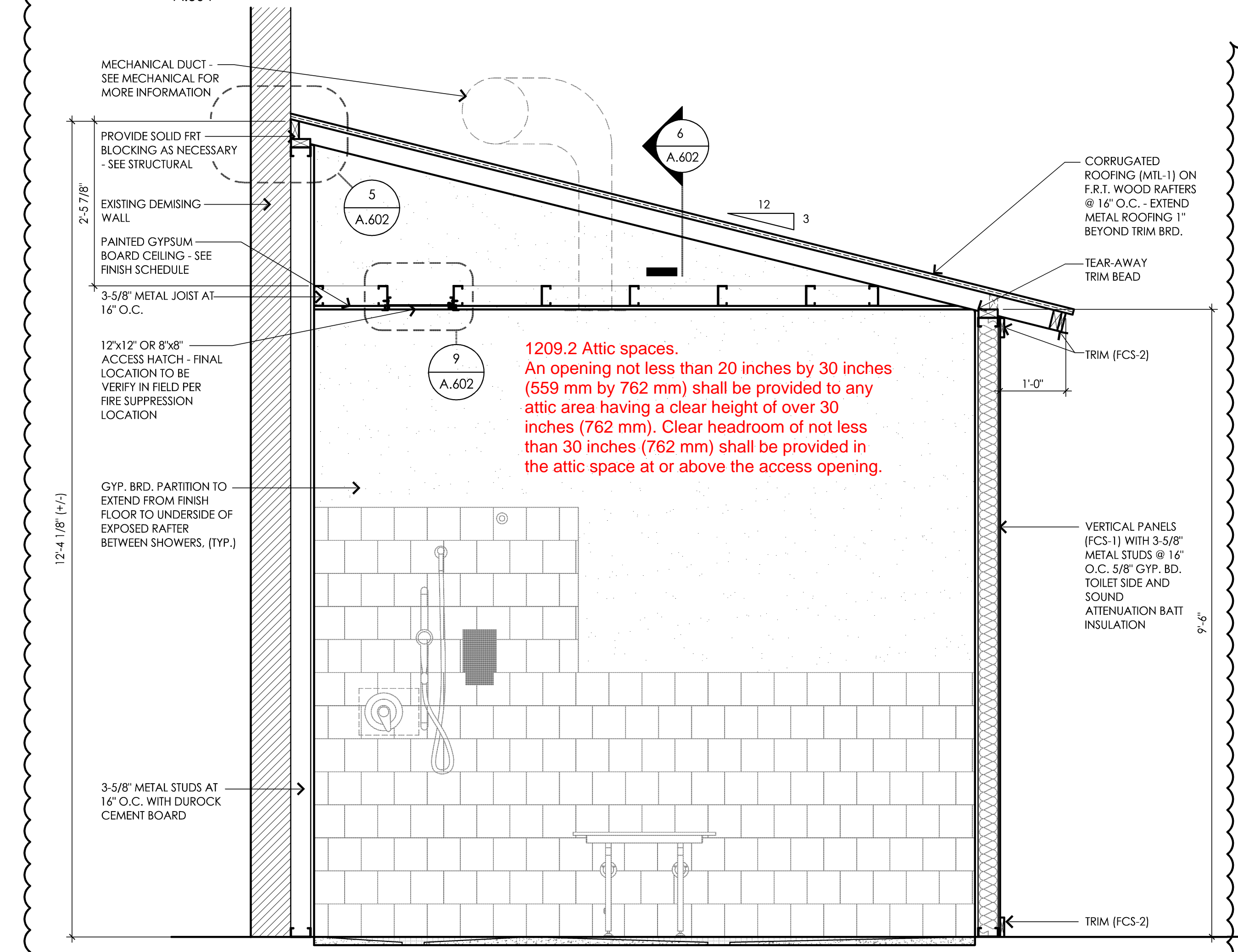
PRCTI20221793



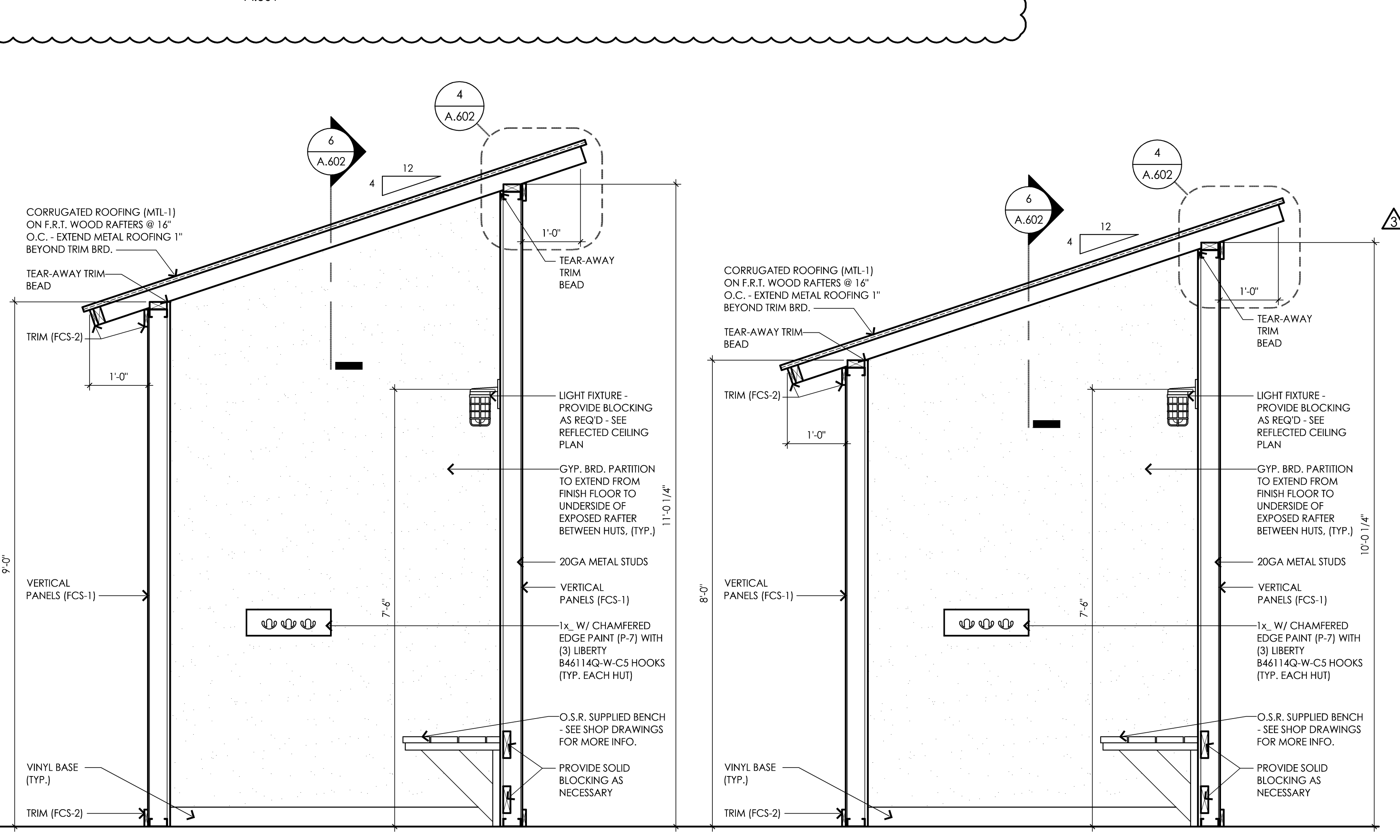
**5** Alternate Roll In B.F. Shower  
 3/4" = 1'-0"  
 A.504



**4** Gender Neutral B.F. Toilet Room #111  
 3/4" = 1'-0"  
 A.501



**3** Shower Room  
 3/4" = 1'-0"  
 A.505



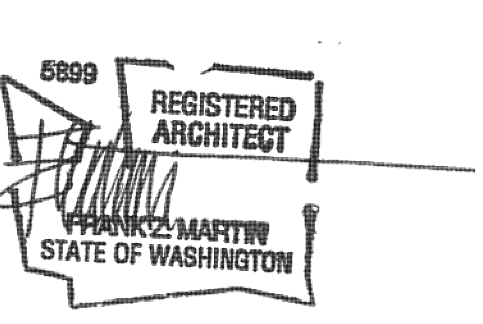
**2** Changing Hut Section  
 3/4" = 1'-0"  
 A.600

**1** Changing Hut Section  
 3/4" = 1'-0"  
 A.600

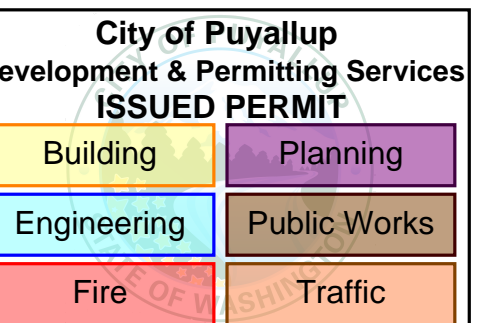
**General Changing Hut Notes:**

- FIVE (5) PERCENT, BUT NEVER LESS THAN ONE, OF CHANGING ROOMS SHALL BE ACCESSIBLE PER ADA CODE.
- REFER TO CHANGING HUT ELEVATION SHEETS AND SECTION SHEETS FOR ADDITIONAL NOTES AND INFORMATION.
- ALL WOOD STUDS, BLOCKING AND RAFTER TO BE FIRE RETARDANT (CLEAR), PRE-FINISHED.
- DO NOT USE ANY SPLIT, CUT, DAMAGED, ETC. WOOD STUDS AT EXPOSED WALL CONSTRUCTION.
- HARDIE PANELS ARE TO BE PROPERLY NAILED, FILLED, AND PAINTED, NO EXPOSED NAILS AT INTERIOR SIDE. BRAD NAILS AND CONSTRUCTION ADHESIVE TO BE USED. **(NO SCREWS, NO NAIL HEADS)**
- LAY-OUT OF PANELS TO BE REVIEWED BY GFSS CONSTRUCTION ADVISOR PRIOR TO INSTALLATION.
- CHANGING HUT BENCHES: REFER TO SHOP DRAWINGS PROVIDED BY ONE SOURCE RETAIL - PROVIDE BLOCKING IN EXTERIOR WALL AS REQUIRED FOR ATTACHMENT. MIN. REQUIREMENTS: 20"x42" BENCH FIXED TO THE WALL ALONG THE LONGER DIM. SHALL BE MOUNTED 17"-19" A.F.F.

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Client  
 Goldfish Swim School  
 H&H Swim School  
 Puyallup, WA  
 F.A. #272

Brand Standards  
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02-09-23 DOH Review Comments
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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373  
 project: \_\_\_\_\_ sheet title: \_\_\_\_\_

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 Southfield, Michigan 48076  
 (248) 557-1062  
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job number 22006 sheet number A.601

**PRCTI20221793**

**General Changing Hut Notes:**

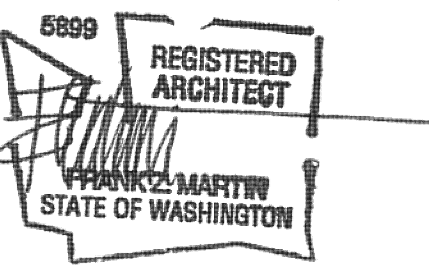
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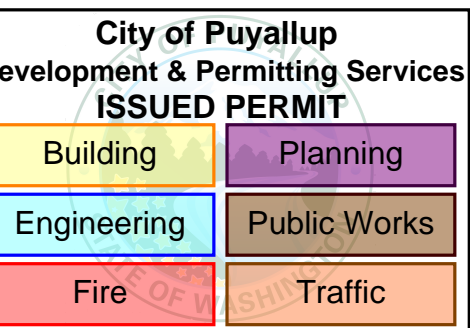
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Client

Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

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drawn by

checked by

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

project: sheet title:

Hut Sections

**dma**  
DORCHEN / MARTIN

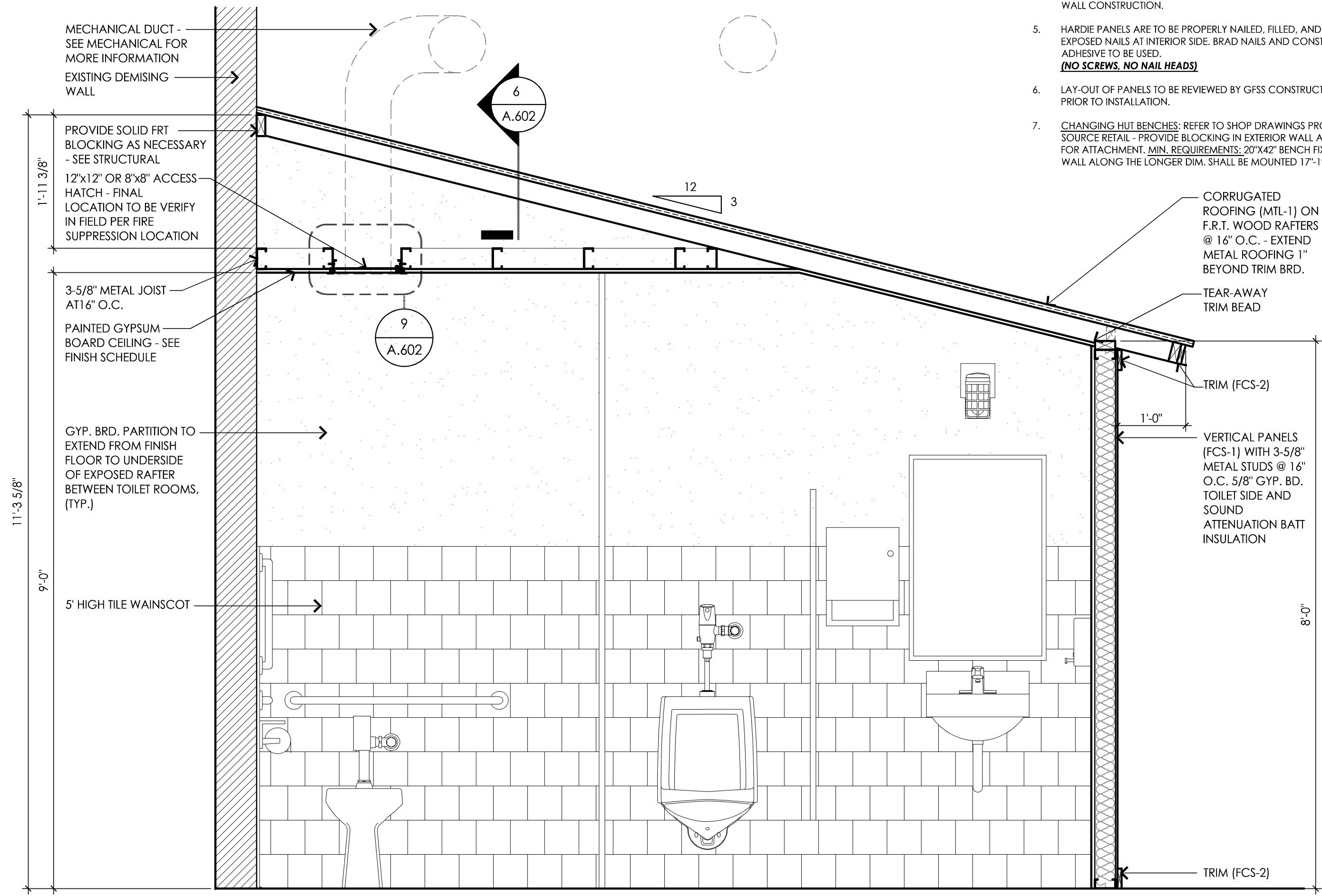
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Architects/Planners  
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job number

22006

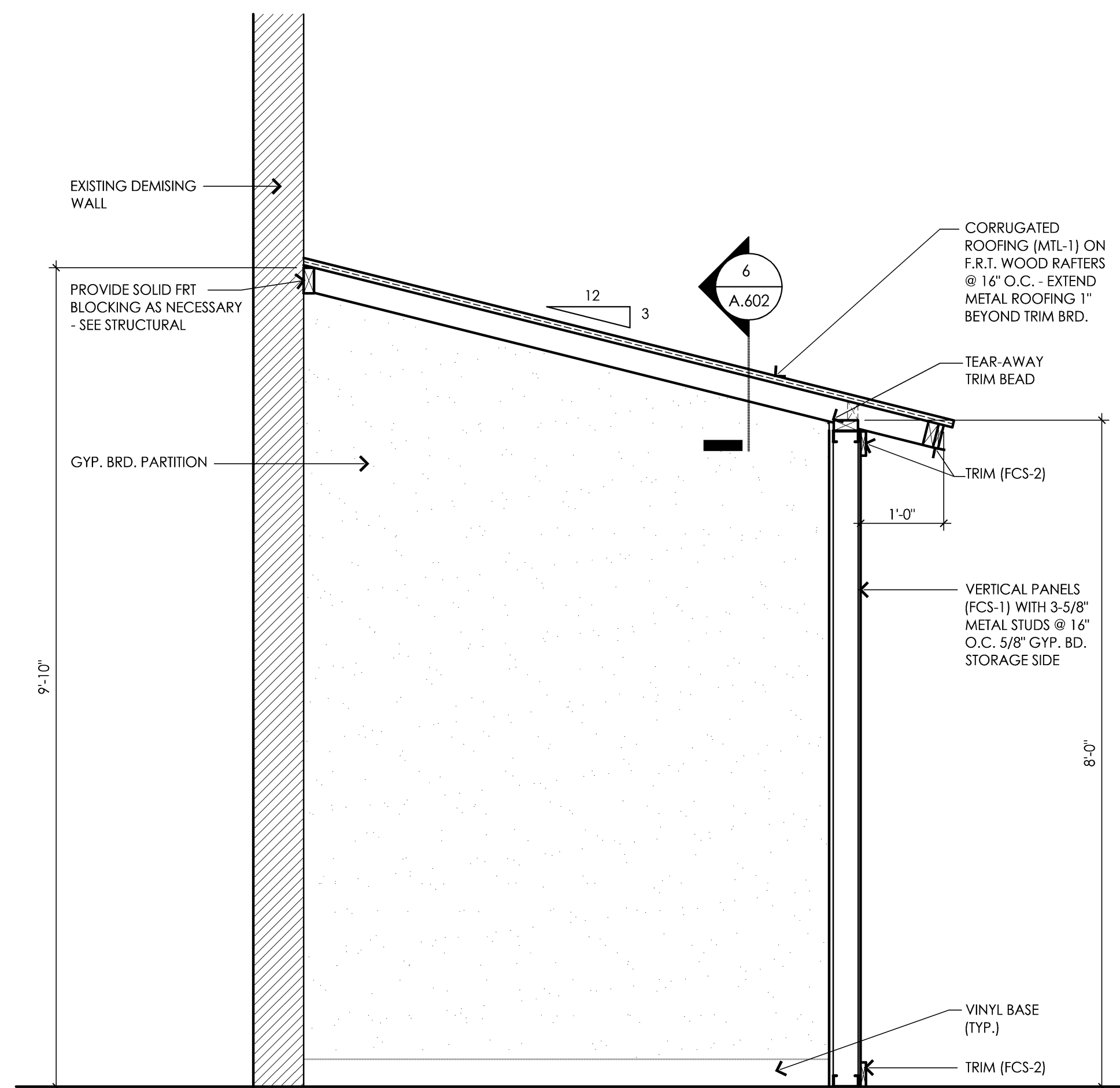
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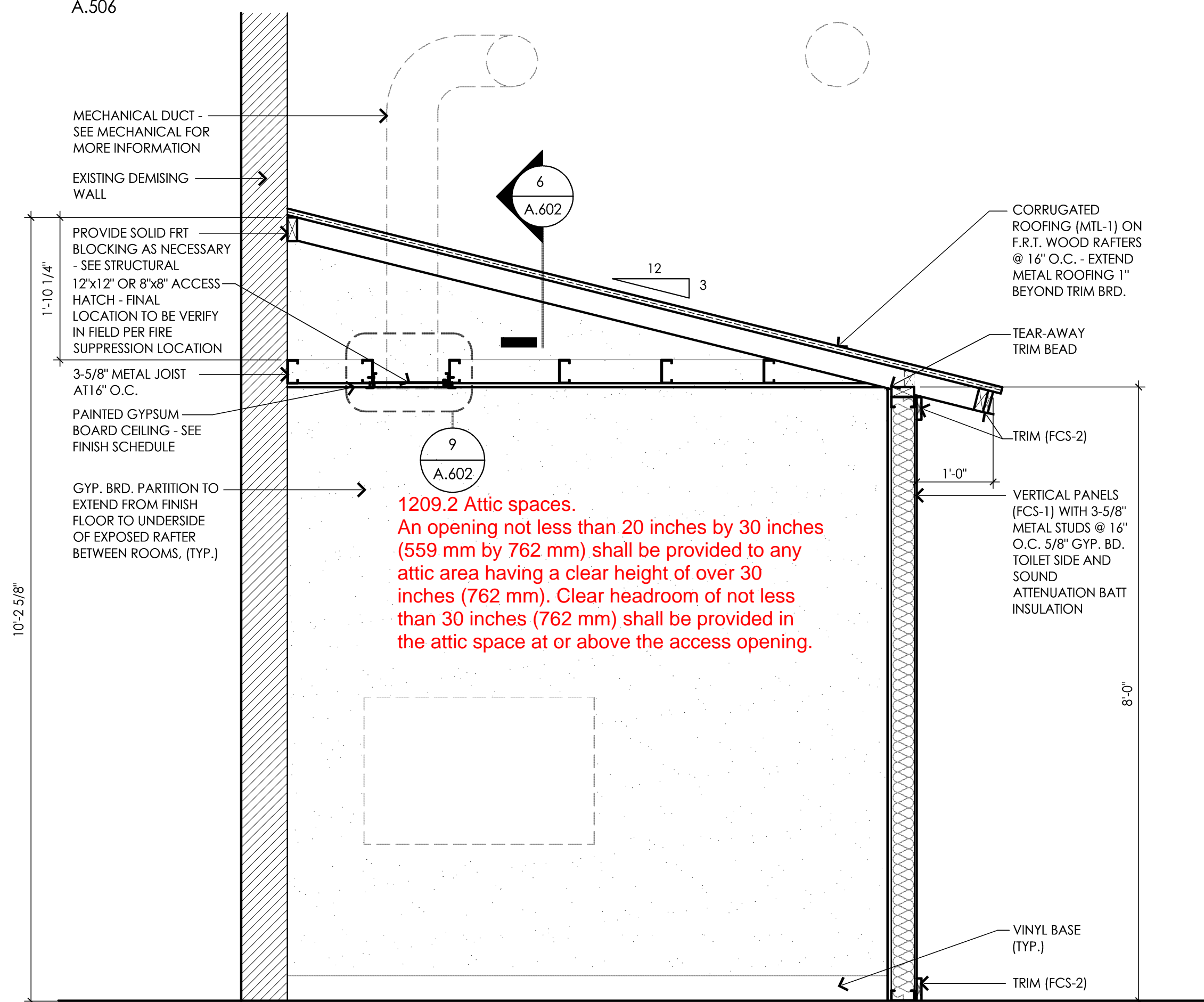
**3 Men's B.F. Toilet Room #104**

3/4" = 1'-0"  
A.506



**2 Storage #118**

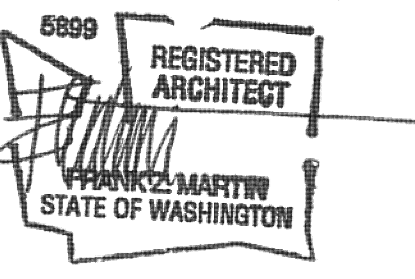
3/4" = 1'-0"  
A.100



**1 Women's B.F. Toilet Room #109**

3/4" = 1'-0"  
A.502

**PRCTI20221793**



architect seal

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

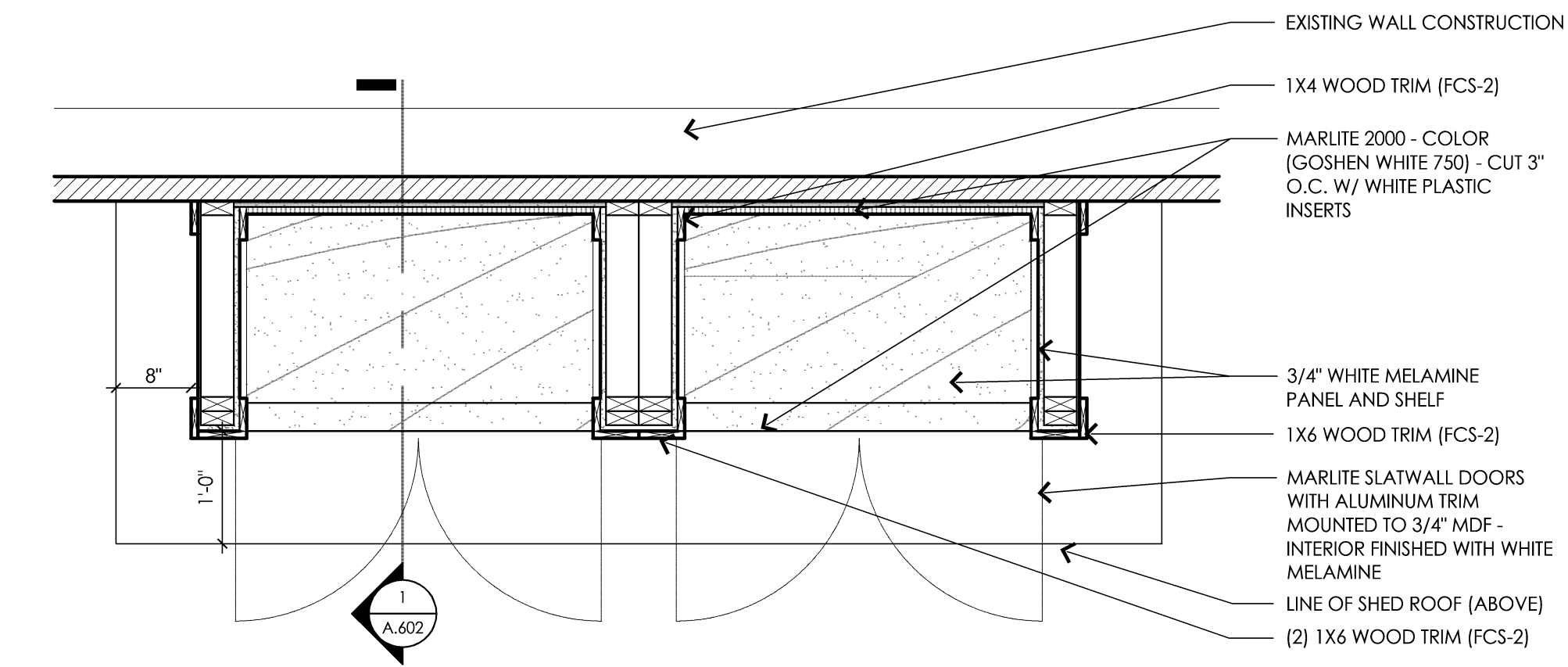
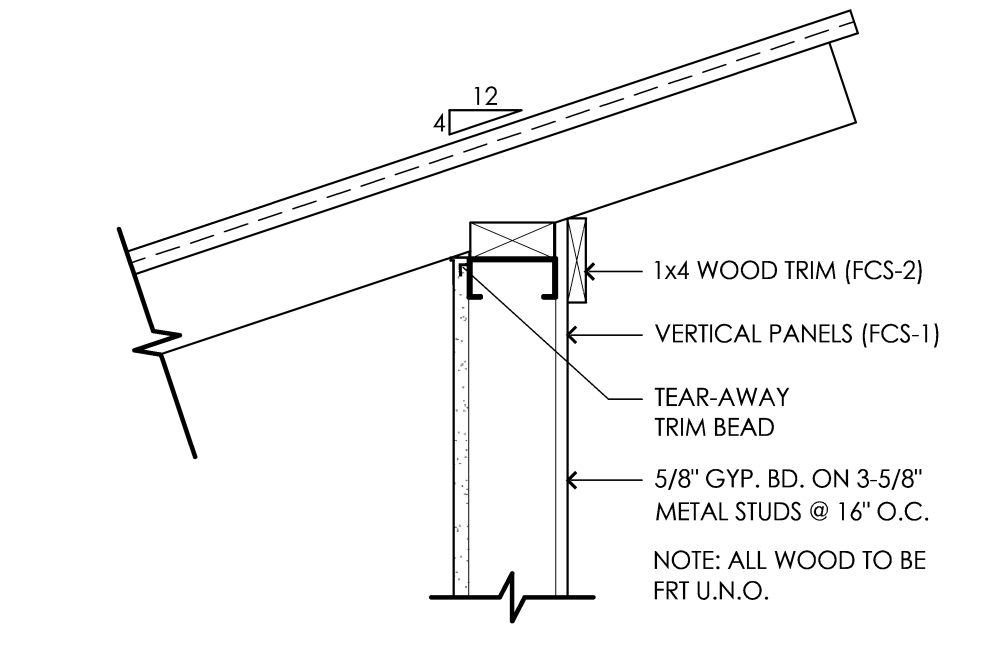
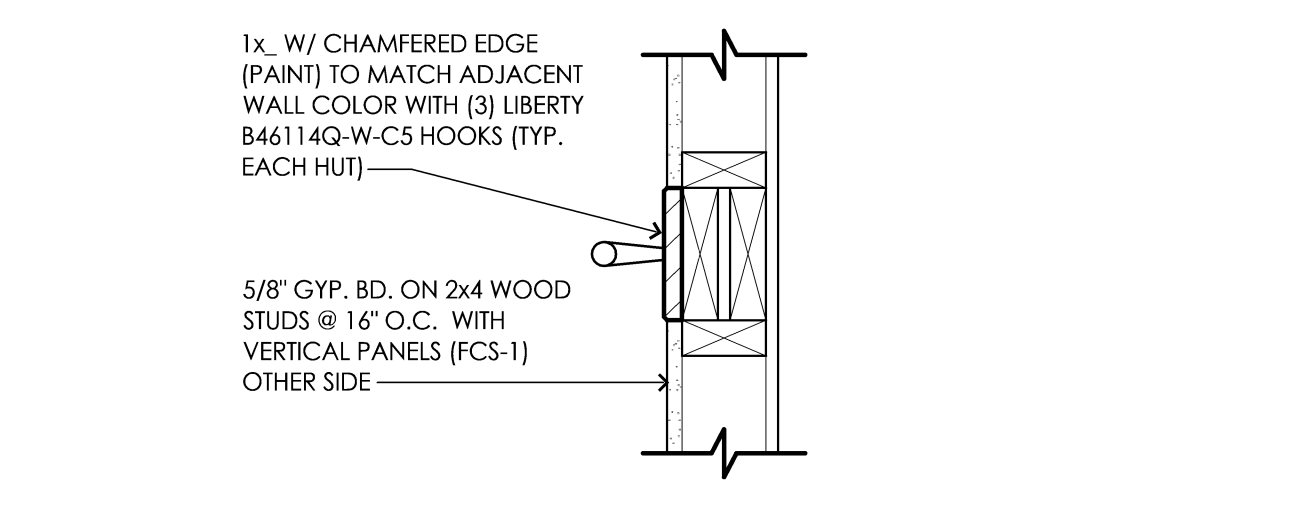
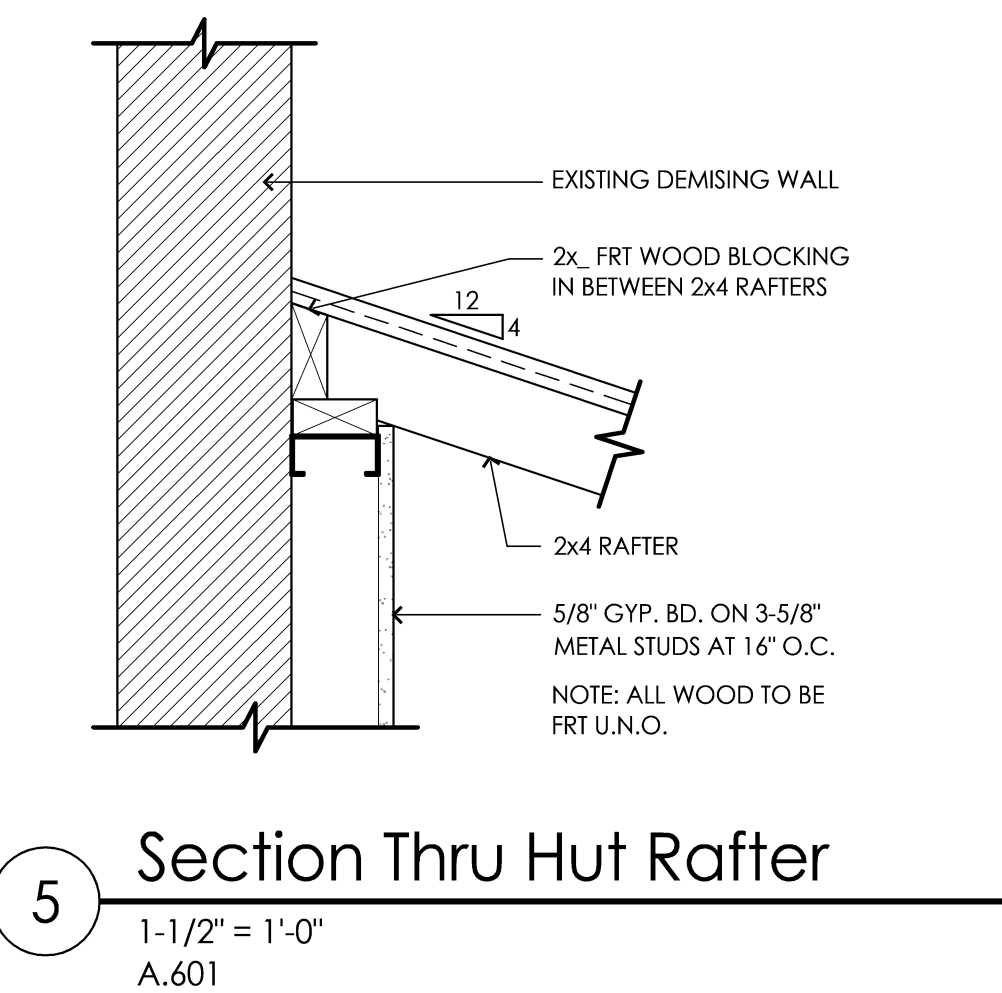
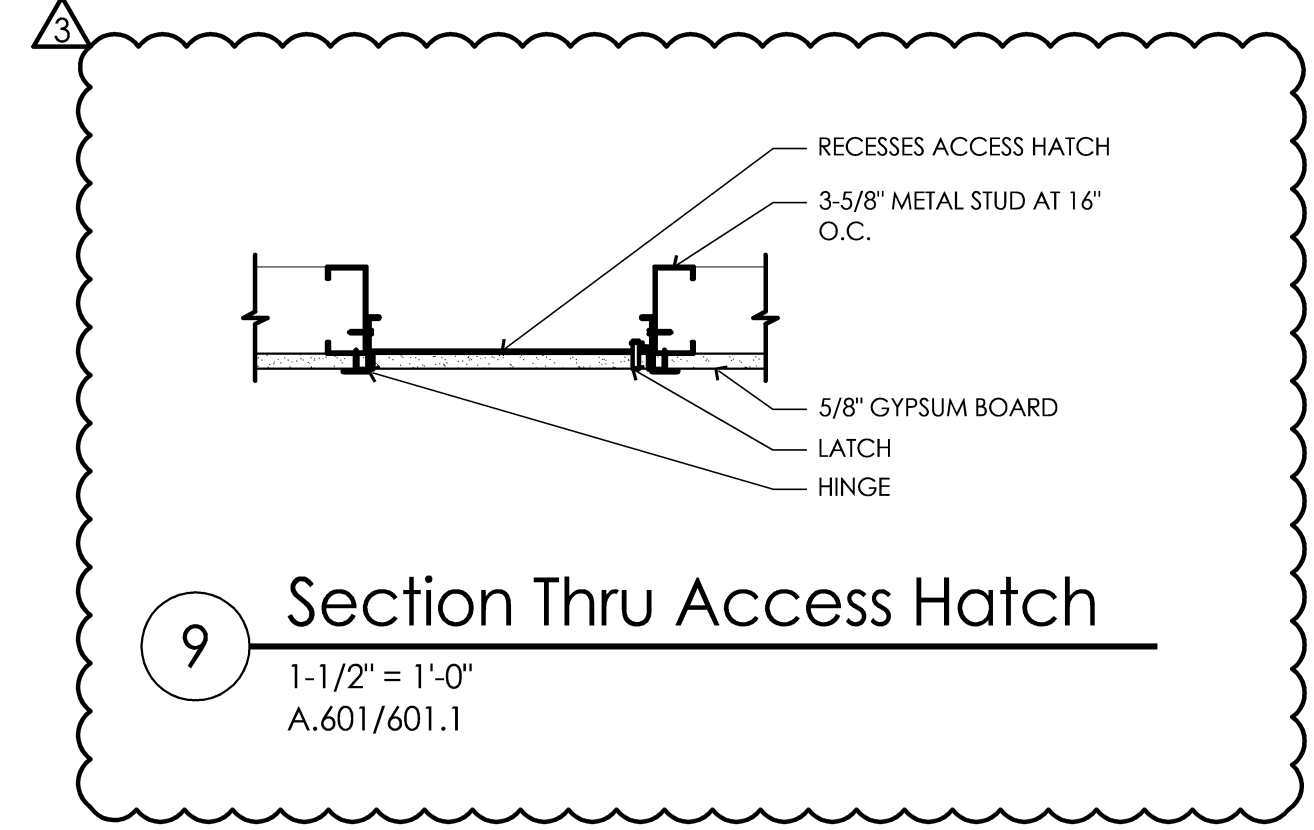
Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
project: \_\_\_\_\_ sheet title: Retail Sections

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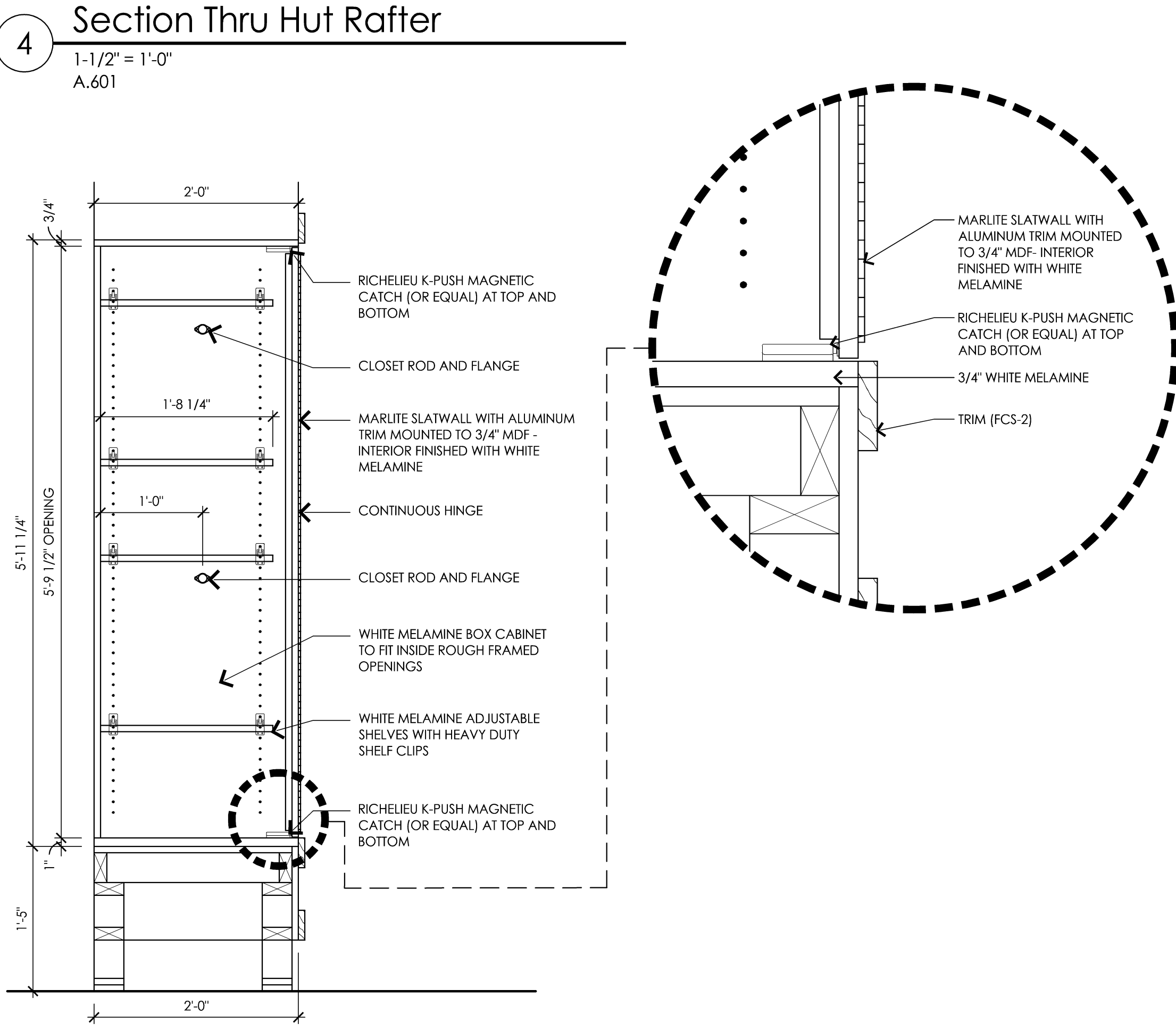
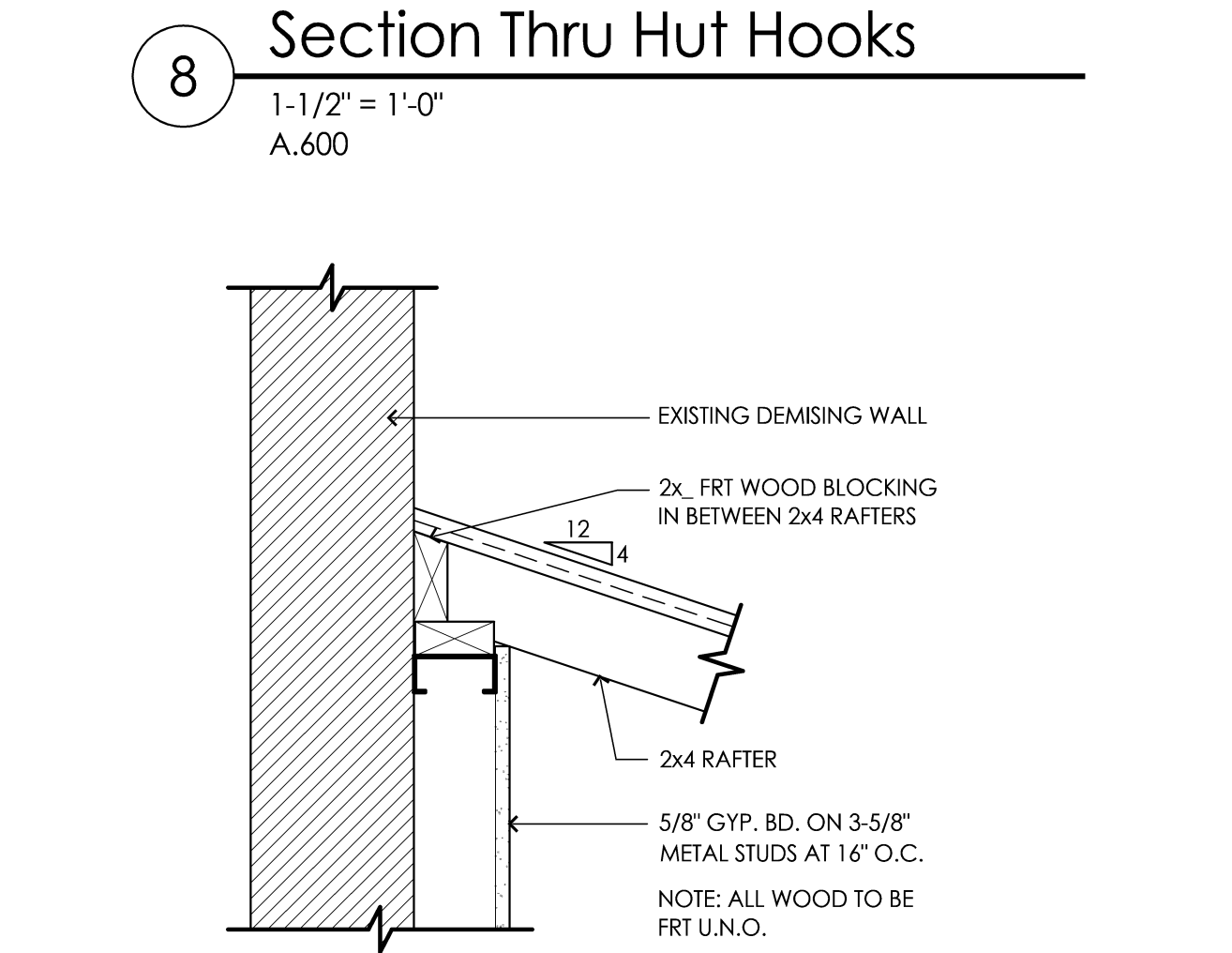
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**General Changing Hut Notes:**

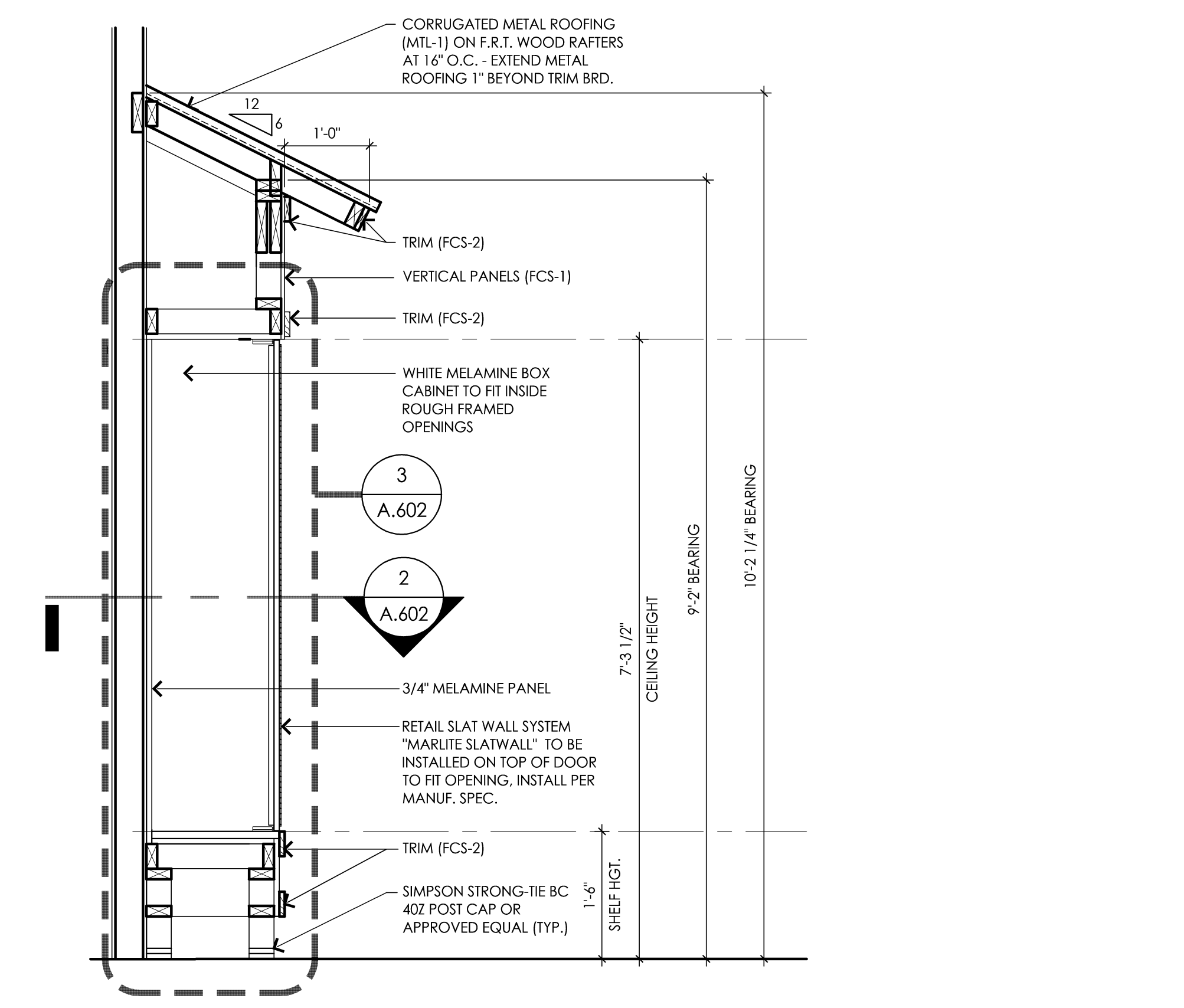
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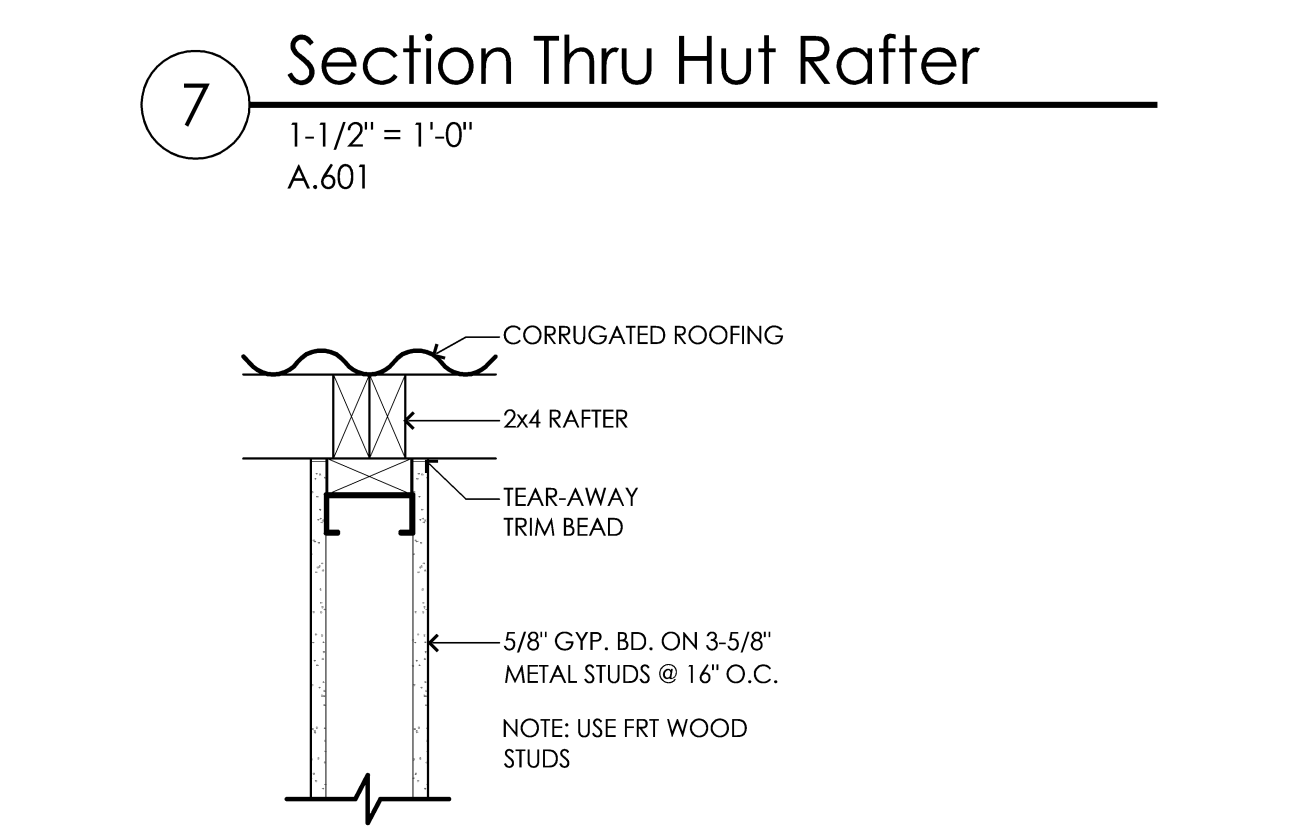
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3/4\"/>



3 Section Thru Retail Slats  
3/4\"/>



1 Section Thru Retail Slats  
3/4\"/>



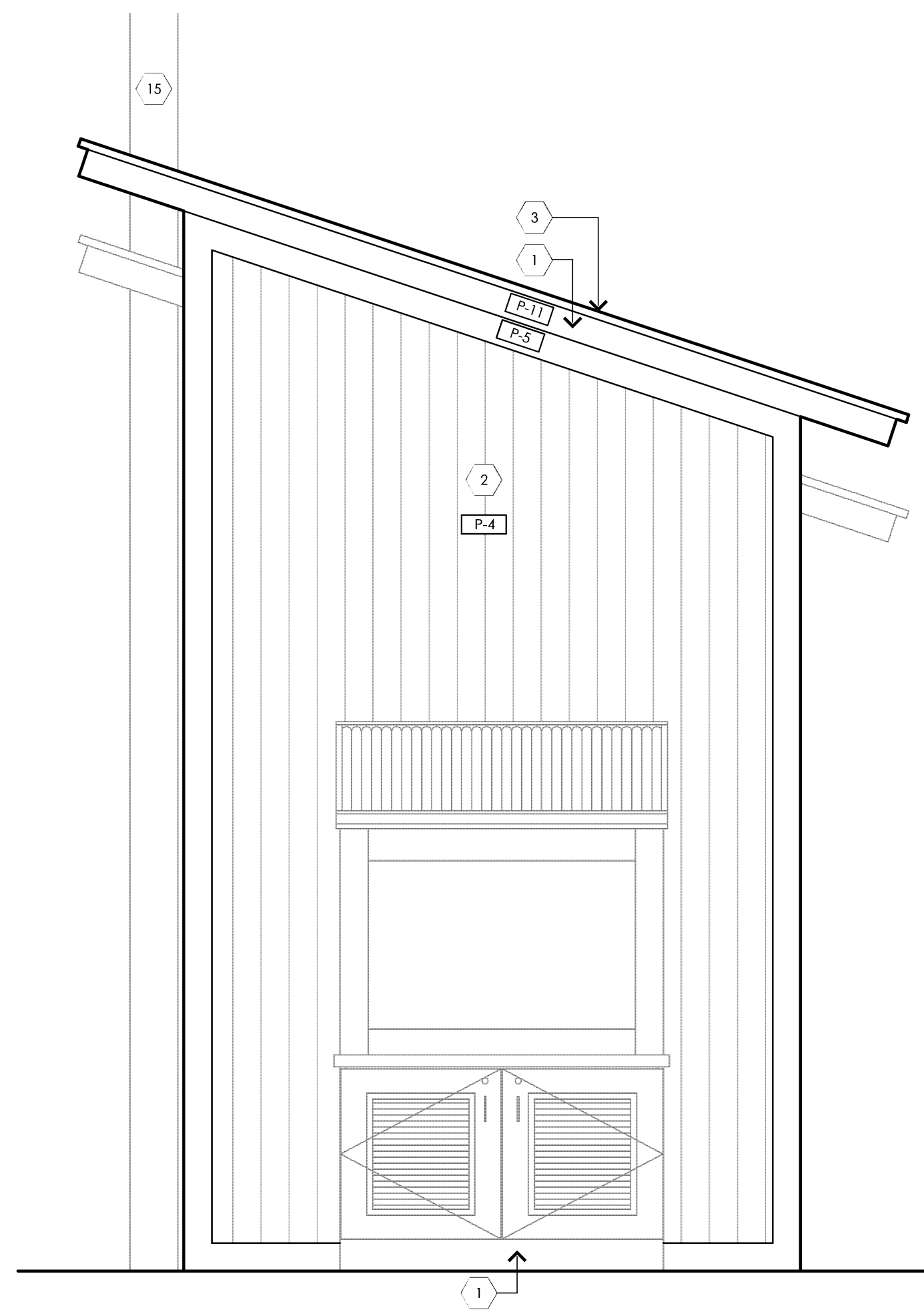
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1-1/2\"/>

**General Changing Hut Notes:**

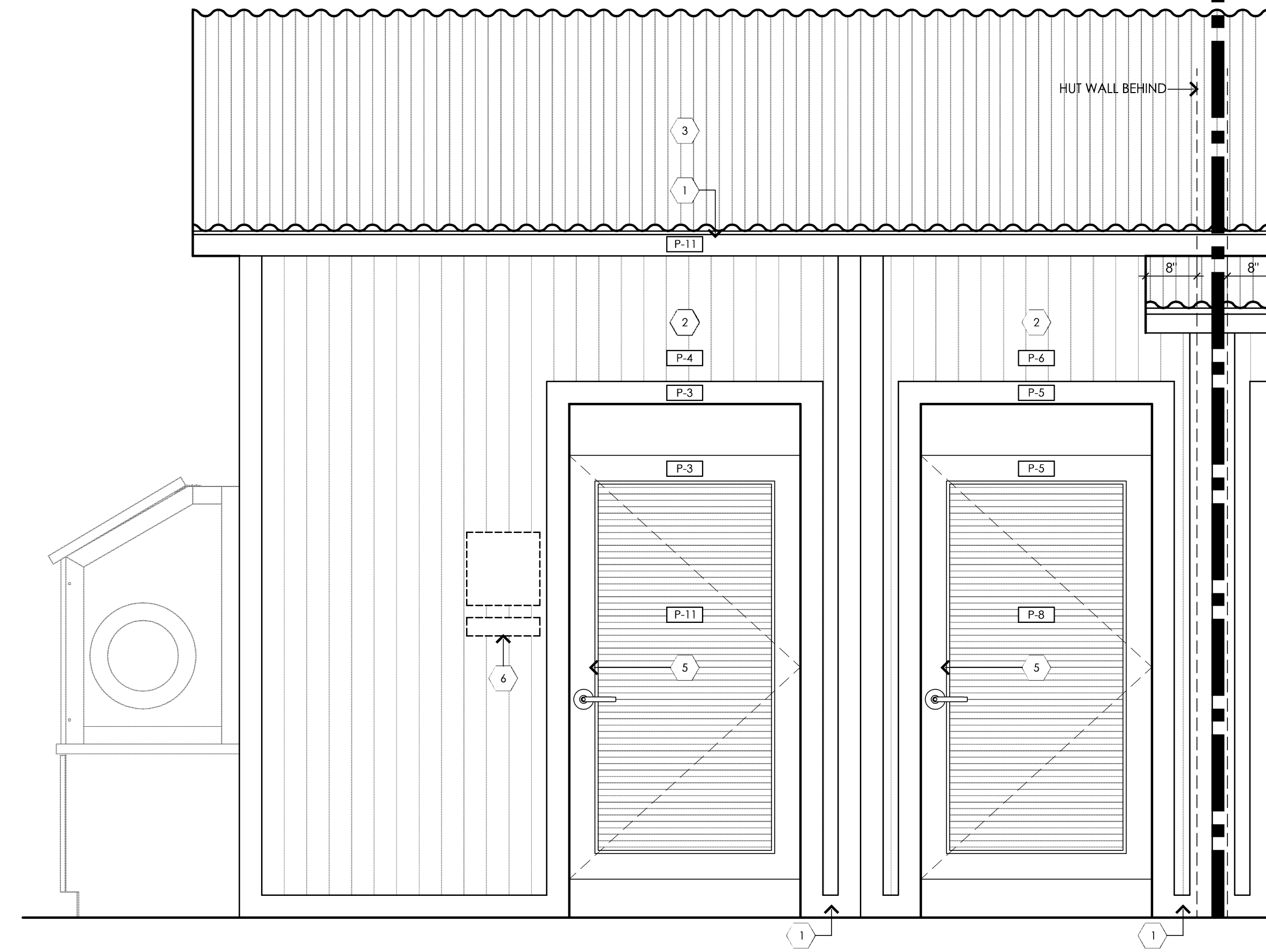
1. FINAL PAINT SCHEME / COLOR COMBINATIONS TO BE APPROVED BY OWNER / GSS PRIOR TO PAINTING. REFER TO PAINT MANUFACTURERS PREPARATION SPECIFICATIONS FOR ALL SURFACES.
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**Changing Huts Keyed Notes:**

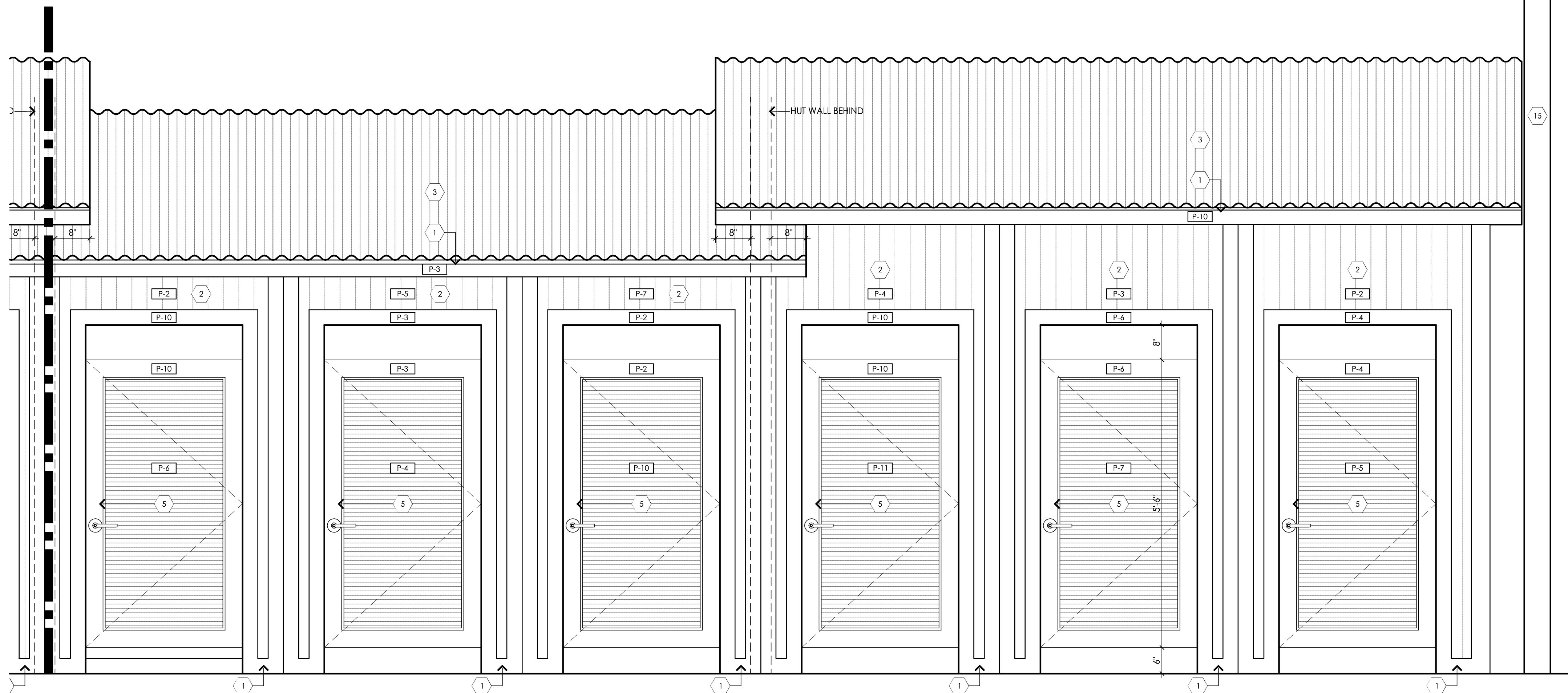
1. TRIM - FCS-2 (TYP.) (PAINT)
2. VERTICAL PANELS - FCS-1 (TYP.) (PAINT)
3. CORRUGATED ROOFING ON FRF WOOD RAFTERS AT 16" O.C. - MTL-1 (TYP.) - EXTEND METAL ROOFING 1" FROM TRIM BRD.
4. NOT USED
5. VISLOK CSFS (SATIN CHROME 260) COMMERCIAL INDICATOR LOCK AND LEVER - CONSULT WITH OWNER FOR FINAL SELECTION.
6. WALL MOUNTED SIGNAGE - REFER TO SHEET A.701 FOR FURTHER INFORMATION
7. GYPSUM BOARD (PAINT) - INTERIOR PAINT TO BE P-1 OR P-9. BENJAMIN MOORE ULTRA SPEC SCUF-X. COLORS TO BE DETERMINED BY OWNER.
8. NOT USED
9. BENCH - REFER TO SHOP DRAWINGS PROVIDED BY ONE SOURCE RETAIL - PROVIDE BLOCKING IN WALL AS REQUIRED FOR ATTACHMENT.
10. WALL BASE - B-1 (PAINT)
11. LIBERTY 8401 140-W CS TOWEL HOOKS - CONSULT WITH OWNER AND ARCHITECT FOR FINAL SELECTION AND MOUNTING HEIGHTS. PROVIDE TRIM 1x4 - 30' - FCS-2 (TYP.) FOR TOWEL HOOKS (EQUALLY SPACED). ATTACHMENT. SEE DETAIL S/A.602 FOR MORE INFORMATION.
12. WALL MOUNTED LIGHT FIXTURE - SEE SHEET AC.100 FOR MORE INFORMATION - COORDINATE WITH ELECTRICAL DRAWINGS BY ELECTRICAL ENGINEER. PROVIDE BLOCKING AS REQUIRED.
13. VINYL WALL BASE (B-2) - SEE FINISH SCHEDULE FOR MORE INFORMATION.
14. CORK BOARD (VERIFY EXACT SIZE).
15. EXISTING COLUMN



**3 Changing Hut Elevations**  
3/4" = 1'-0"  
A.600

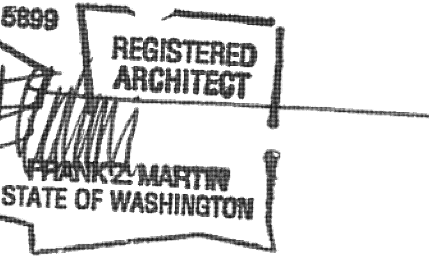


**2 Changing Hut Elevations**  
3/4" = 1'-0"  
A.600

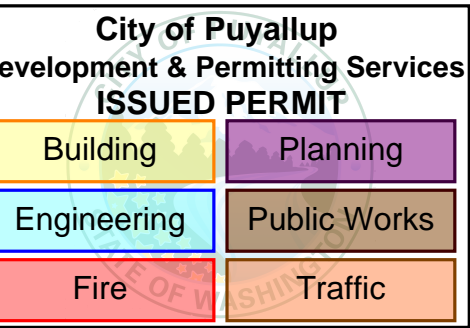


**1 Changing Hut Elevations**  
3/4" = 1'-0"  
A.600

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Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
Changing Hut Elevations  
project: \_\_\_\_\_ sheet title: \_\_\_\_\_

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job number 22006 sheet number A.603

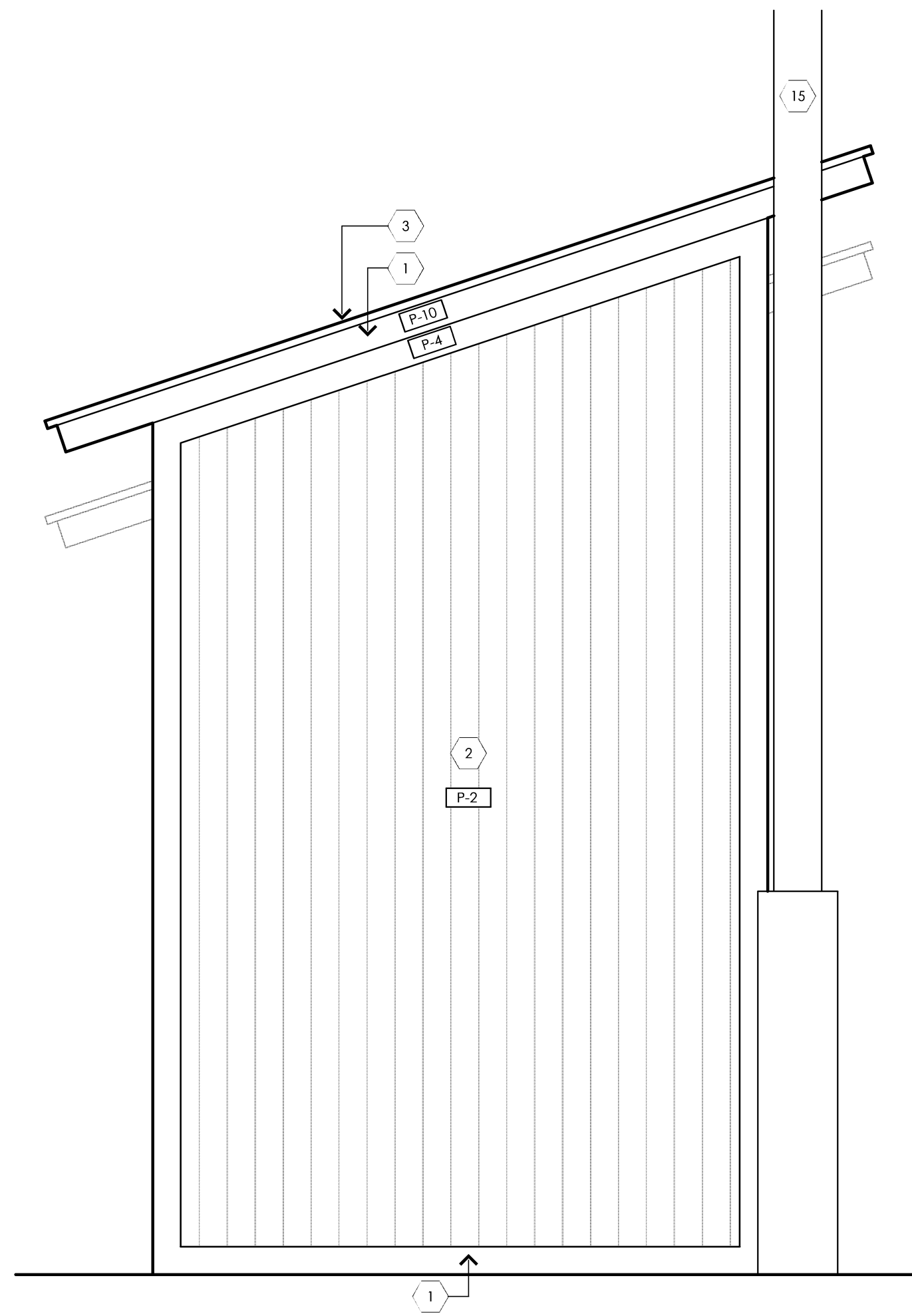
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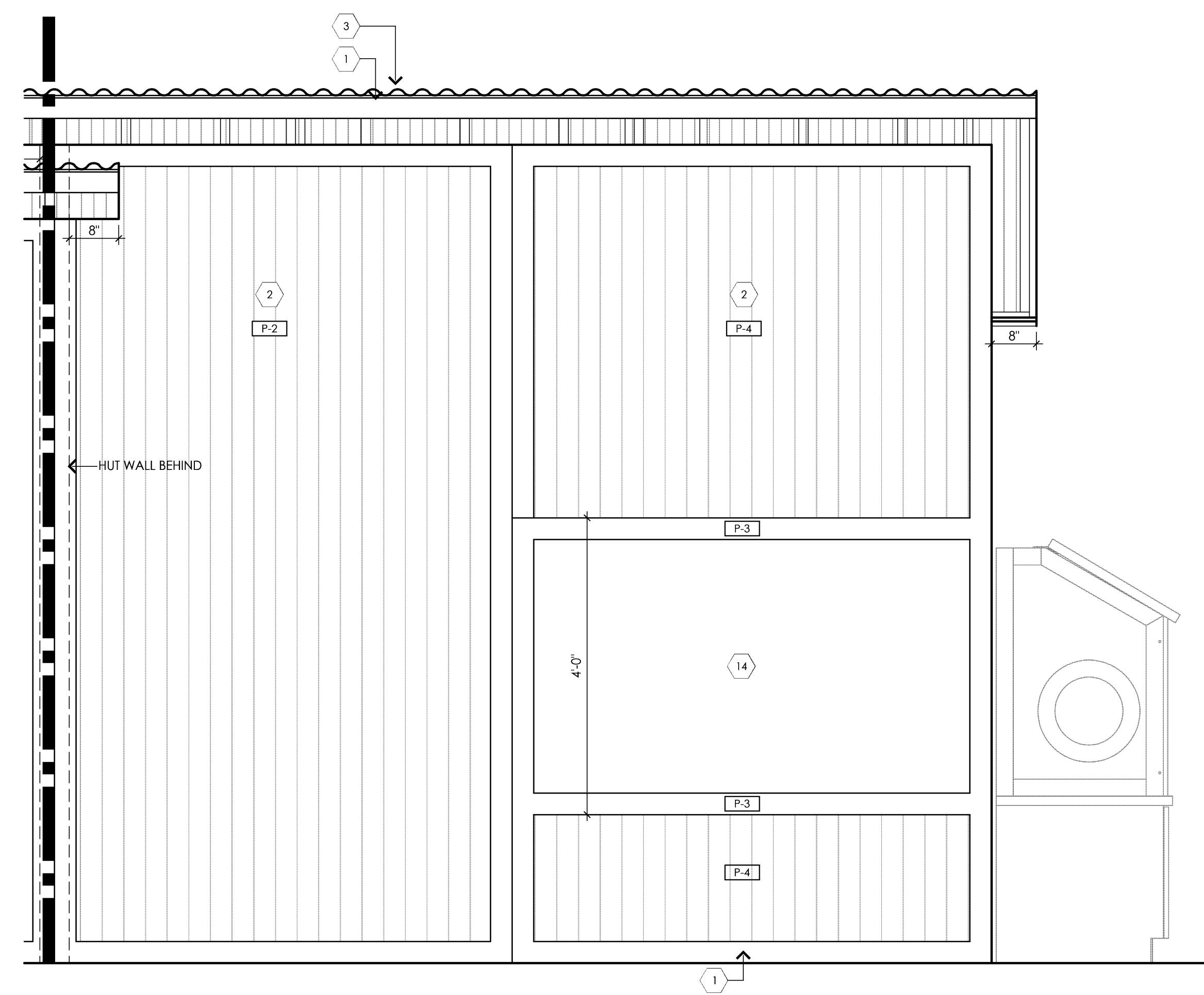
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**Changing Huts Keyed Notes:**

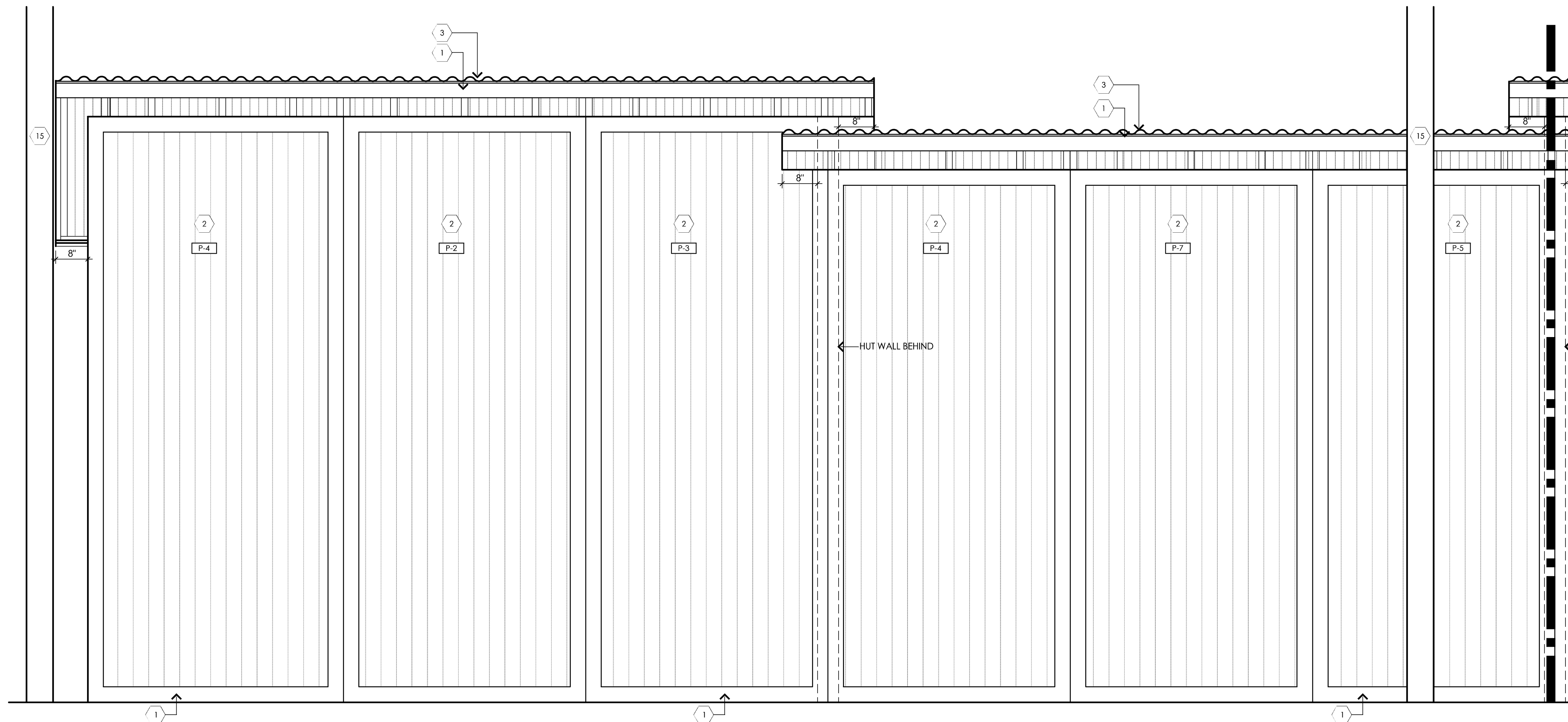
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**3** Changing Hut Elevations  
3/4" = 1'-0"  
A.600

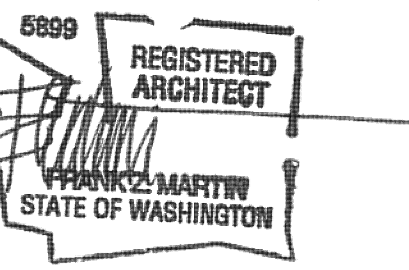


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A.600

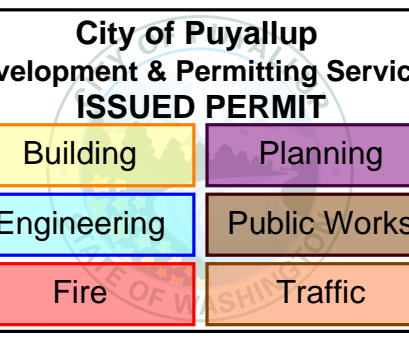


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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

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Changing Hut Elevations

project: \_\_\_\_\_ sheet title: \_\_\_\_\_  
**dma**  
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Dorchen/Martin Associates, Inc.  
Architects/Planners  
29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
www.dorchenmartin.com

job number 22006 sheet number A.604

**PRCTI20221793**

**General Changing Hut Notes:**

- FINAL PAINT SCHEME / COLOR COMBINATIONS TO BE APPROVED BY OWNER / GIS PRIOR TO PAINTING. REFER TO PAINT MANUFACTURER'S PREPARATION SPECIFICATIONS FOR ALL SURFACES.
- DO NOT USE ANY SPLIT, CUT, DAMAGED, ETC. WOOD STUDS AT EXPOSED WALL CONSTRUCTION.
- HARDIE PANELS ARE TO BE PROPERLY NAILED, FILLED, AND PAINTED. NO EXPOSED NAILS AT INTERIOR SIDE. BRAD NAILS AND CONSTRUCTION ADHESIVE TO BE USED. **(NO SCREWS, NO NAIL HEADS)**
- LAY-OUT OF PANELS TO BE REVIEWED BY GIS CONSTRUCTION ADVISOR PRIOR TO INSTALLATION.

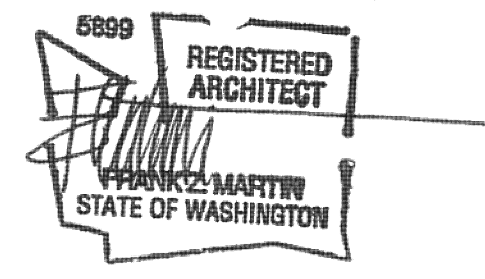
**Changing Huts Keyed Notes:**

- TRIM - FCS-2 (TYP.) (PAINT)
- VERTICAL PANELS - FCS-1 (TYP.) (PAINT)
- CORRUGATED ROOFING ON FRM WOOD RAFTERS AT 16" O.C. - MIL-1 (TYP.) - EXTEND METAL ROOFING 1' FROM TRIM BRD.
- NOT USED
- VISILOK CFS (SATIN CHROME 26D) COMMERCIAL INDICATOR LOCK AND LEVER - CONSULT WITH OWNER FOR FINAL SELECTION.
- WALL MOUNTED SIGNAGE - REFER TO SHEET A.701 FOR FURTHER INFORMATION
- GYPSUM BOARD (PAINT) - INTERIOR PAINT TO BE P-1 OR P-9, BENJAMIN MOORE ULTRA SPEC SCUFF-X. COLORS TO BE DETERMINED BY OWNER.
- NOT USED
- BENCH - REFER TO SHOP DRAWINGS PROVIDED BY ONE SOURCE RETAIL - PROVIDE BLOCKING IN WALL AS REQUIRED FOR ATTACHMENT.
- WALL BASE - B-1 (PAINT)
- LIBERTY B461 1/4" W-C5 TOWEL HOOKS - CONSULT WITH OWNER AND ARCHITECT FOR FINAL SELECTION AND MOUNTING HEIGHTS. PROVIDE TRIM, 1x4 - 30' - FCS-2 (TYP.) FOR TOWEL HOOKS (EQUALLY SPACED) ATTACHMENT. SEE DETAIL S/A.602 FOR MORE INFORMATION.
- WALL MOUNTED LIGHT FIXTURE - SEE SHEET AC.100 FOR MORE INFORMATION - COORDINATE WITH ELECTRICAL DRAWINGS BY ELECTRICAL ENGINEER. PROVIDE BLOCKING AS REQUIRED.
- VINYL WALL BASE (B-2) - SEE FINISH SCHEDULE FOR MORE INFORMATION.
- CORK BOARD (VERIFY EXACT SIZE)
- EXISTING COLUMN

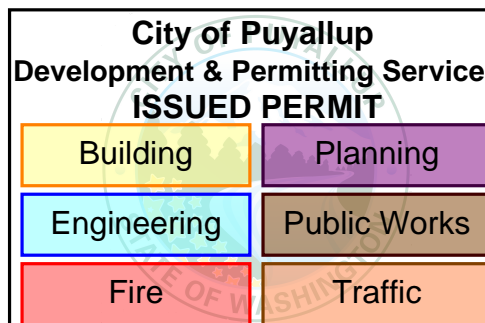
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Do not scale drawings.  
Use figured dimensions only.



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Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



issue / revision date	
10-07-22 Staggered Review	
11-07-22 Preliminary Budget Review	
11-18-22 DOH Review	
11-21-22 Building Permit Review	
12-01-22 Revised Permit	
12-09-22 Addendum #1	
01-11-23 Owner Revision	
02-09-23 City Review Comments	
02-09-23 DOH Review Comments	
02-09-23 Elect. Review Comments	

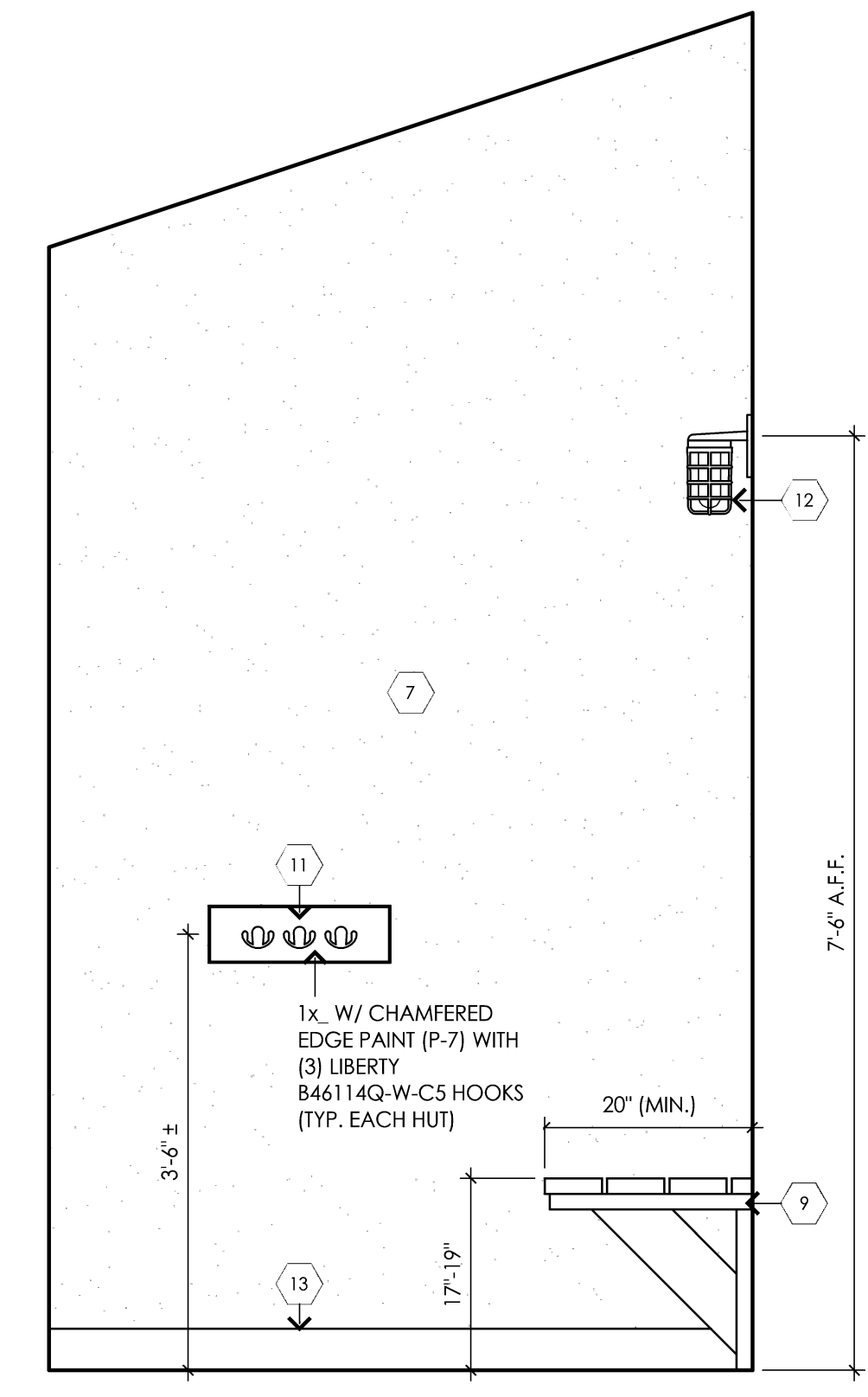
drawn by \_\_\_\_\_ checked by \_\_\_\_\_

project: **Goldfish Swim School**  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

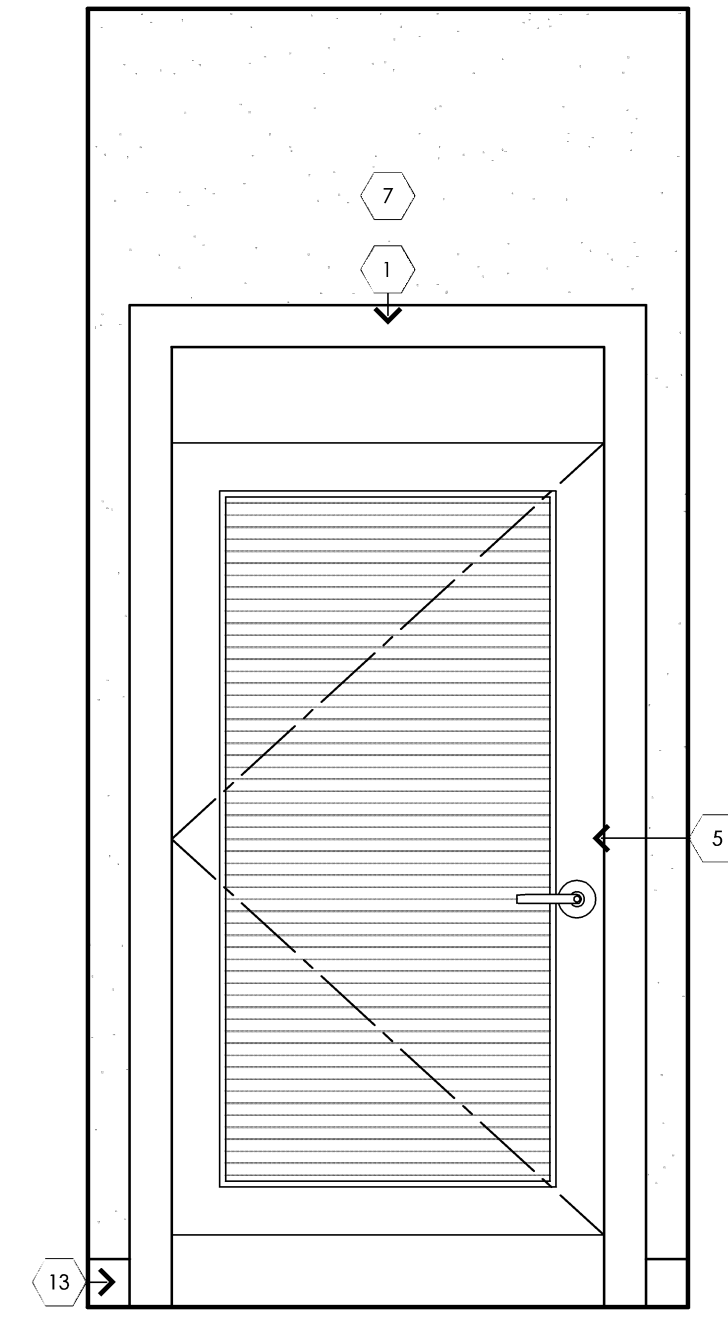
sheet title: **Changing Hut Elevations**

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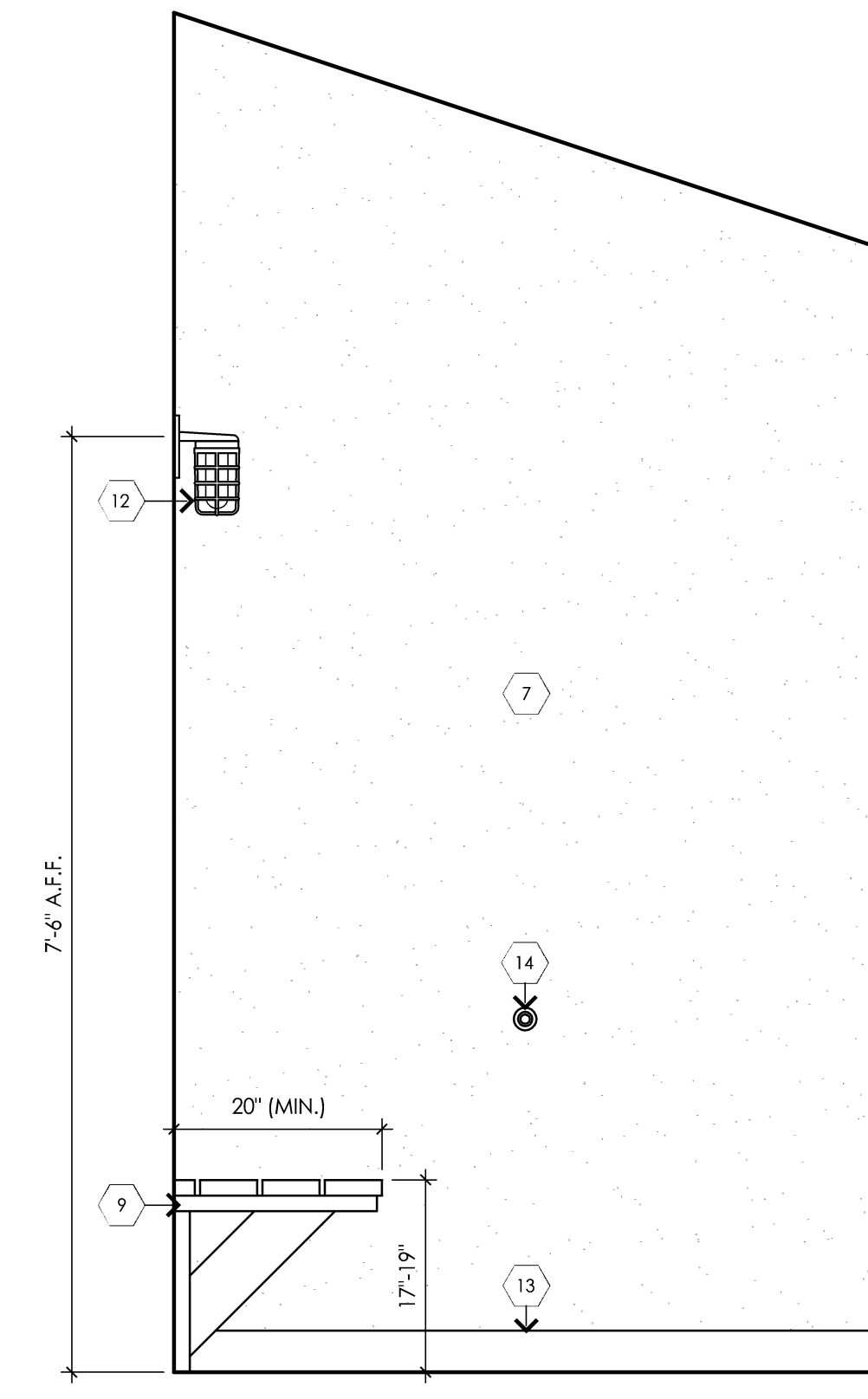
job number **22006** sheet number **A.605**



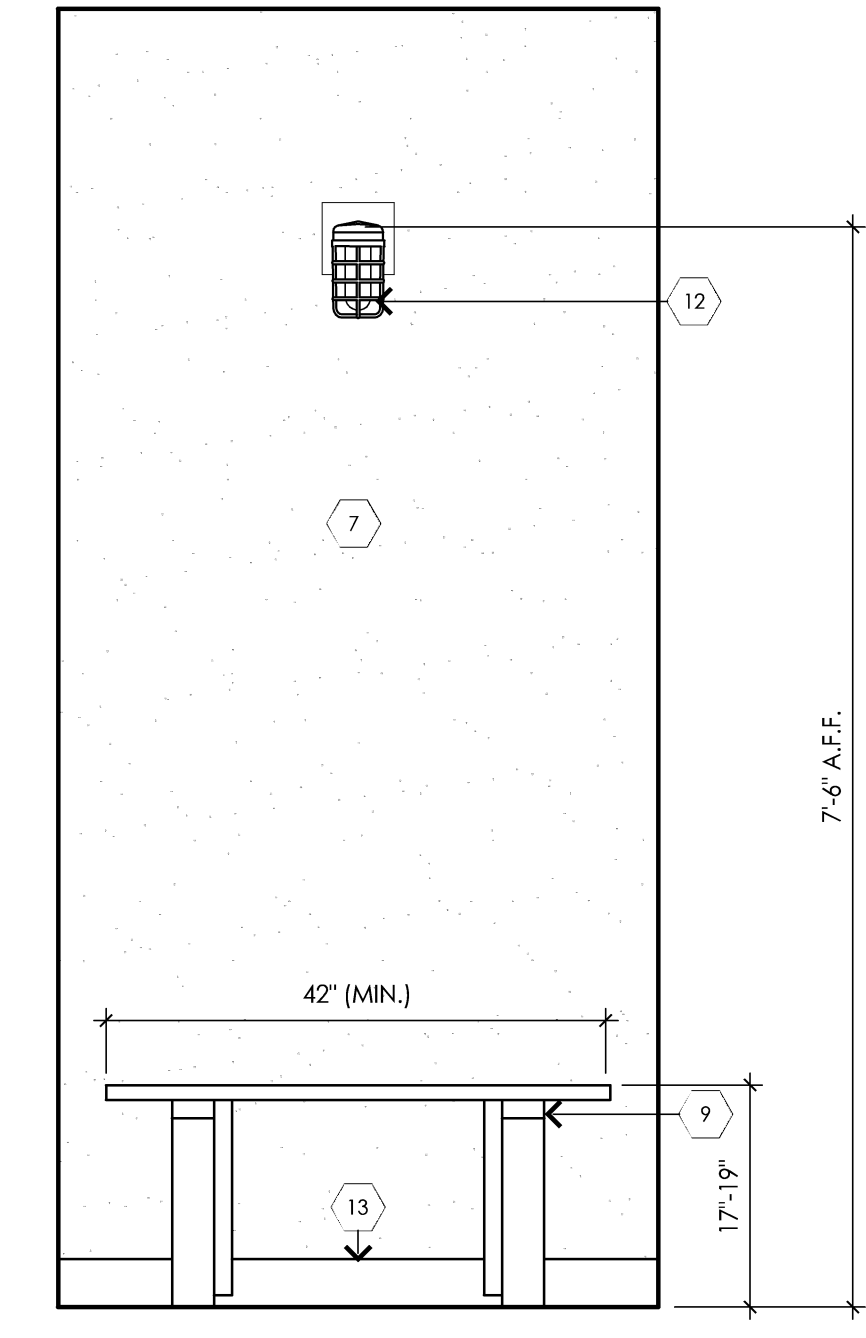
**4** Hut Interior  
3/4" = 1'-0"  
A.600



**3** Hut Interior  
3/4" = 1'-0"  
A.600

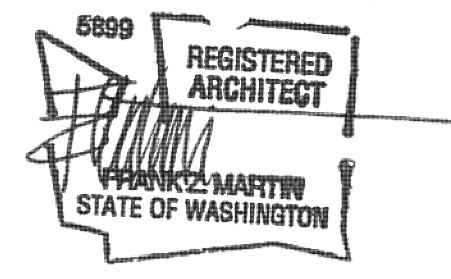


**2** Hut Interior  
3/4" = 1'-0"  
A.600



**1** Hut Interior  
3/4" = 1'-0"  
A.600

**PRCTI20221793**



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**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

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issue / revision date

10-07-22	Staggered Review
11-07-22	Preliminary Budget Review
11-18-22	DOH Review
11-21-22	Building Permit Review
12-01-22	Revised Permit
12-09-22	Addendum #1
01-11-23	Owner Revision
02-09-23	City Review Comments
02-09-23	DOH Review Comments
02-09-23	Elect. Review Comments

drawn by \_\_\_\_\_ checked by \_\_\_\_\_

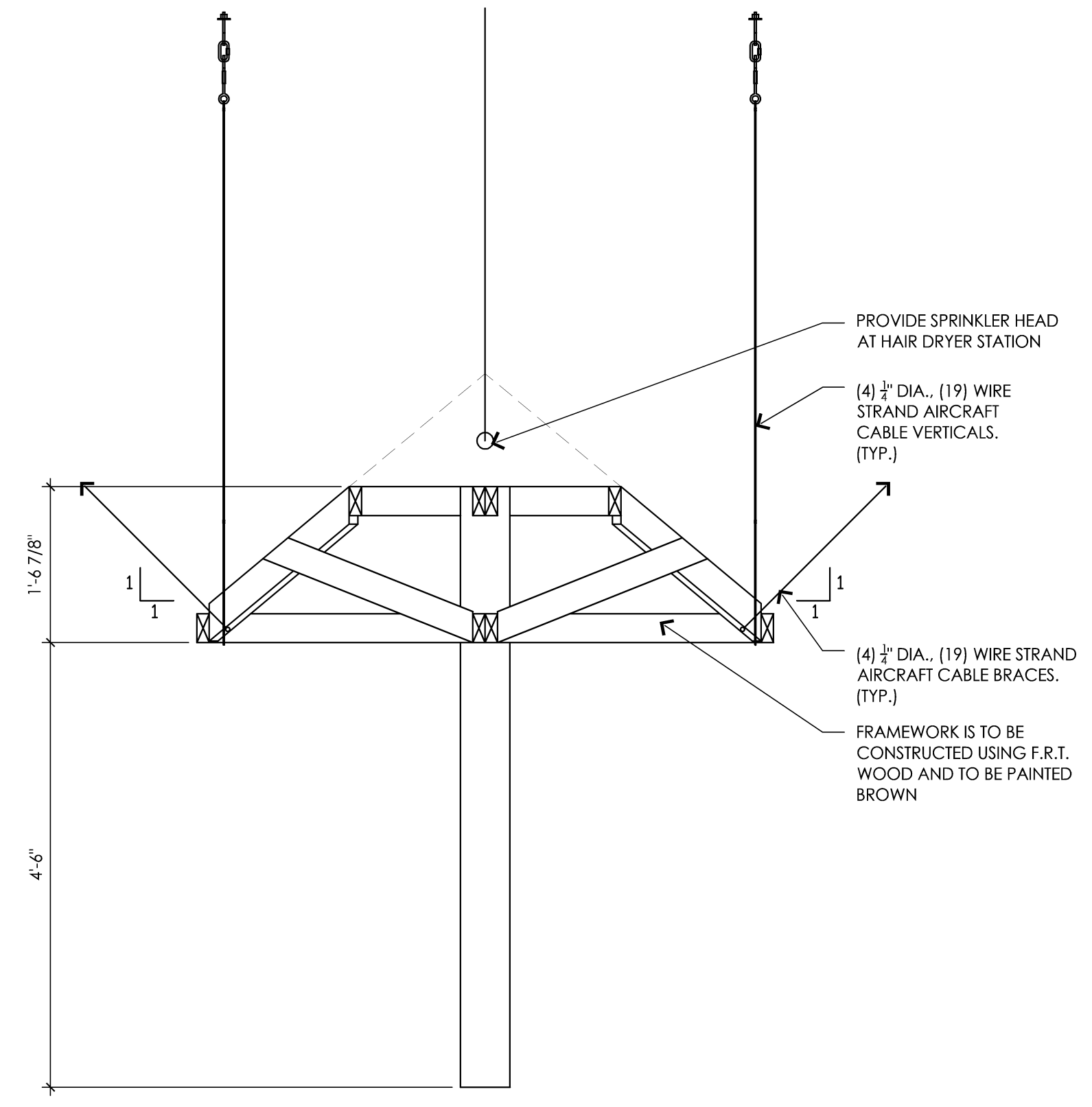
project: **Goldfish Swim School**  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

sheet title: **Hair Dryer Station Details**

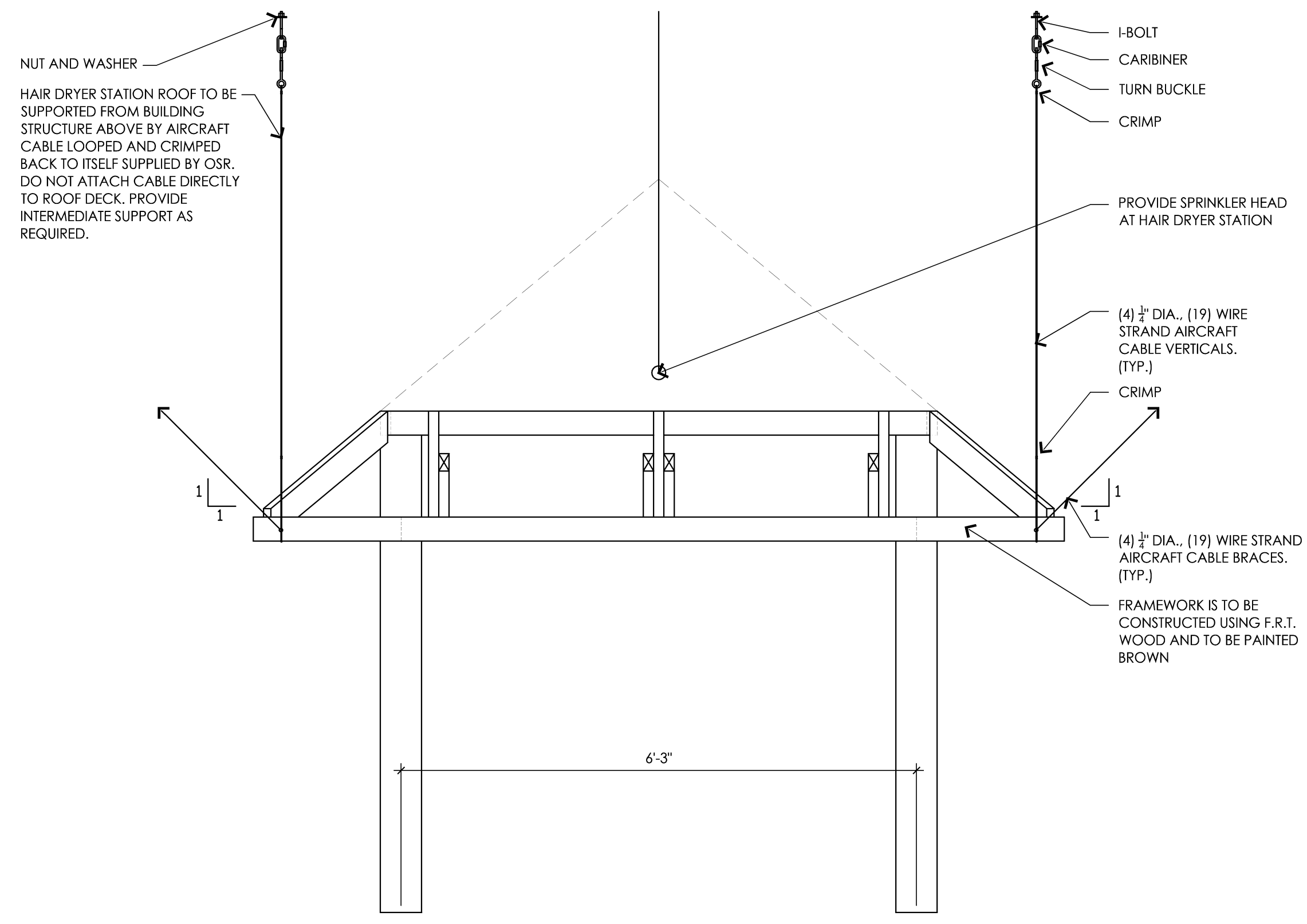


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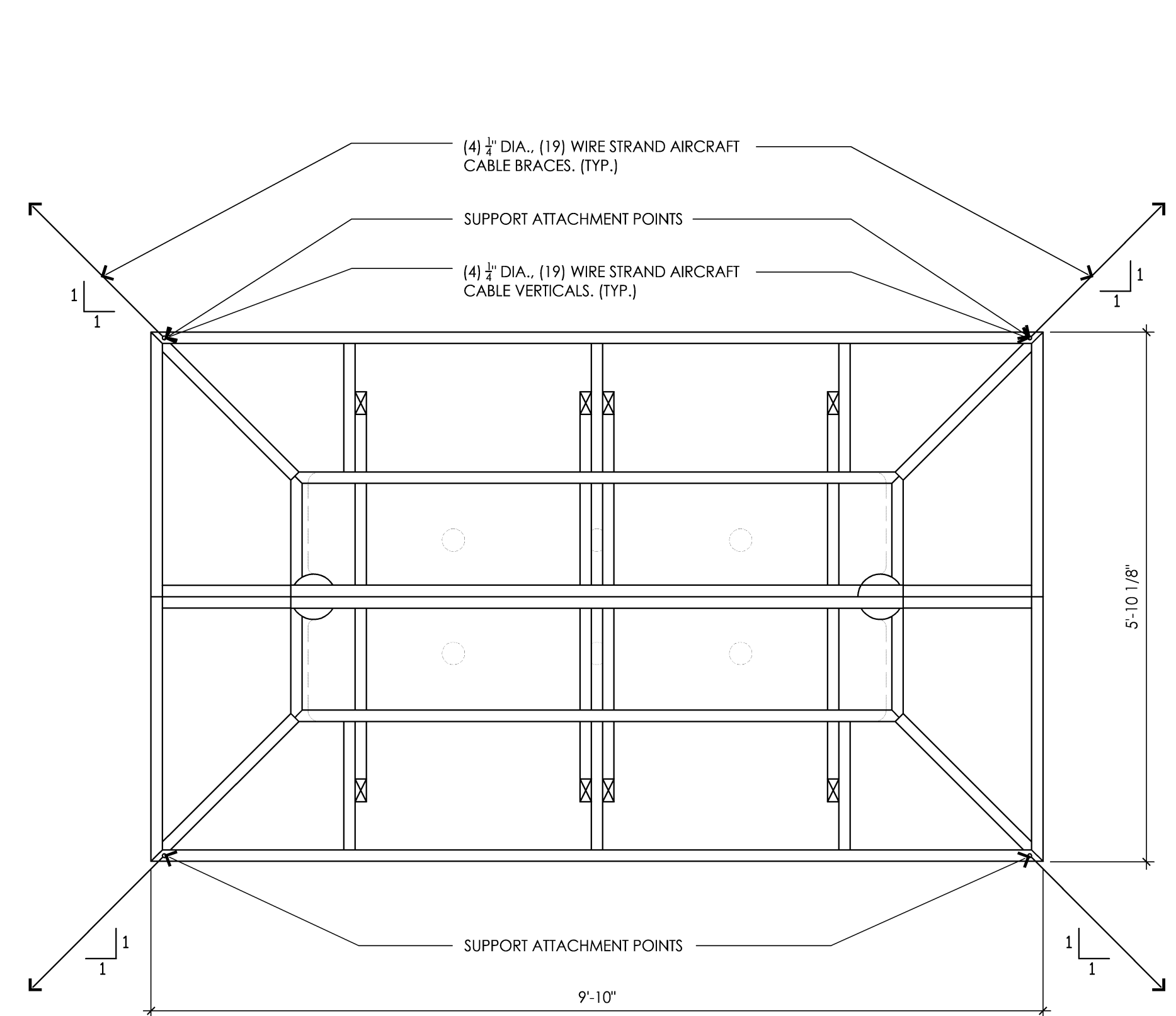
job number: 22006 sheet number: A.606



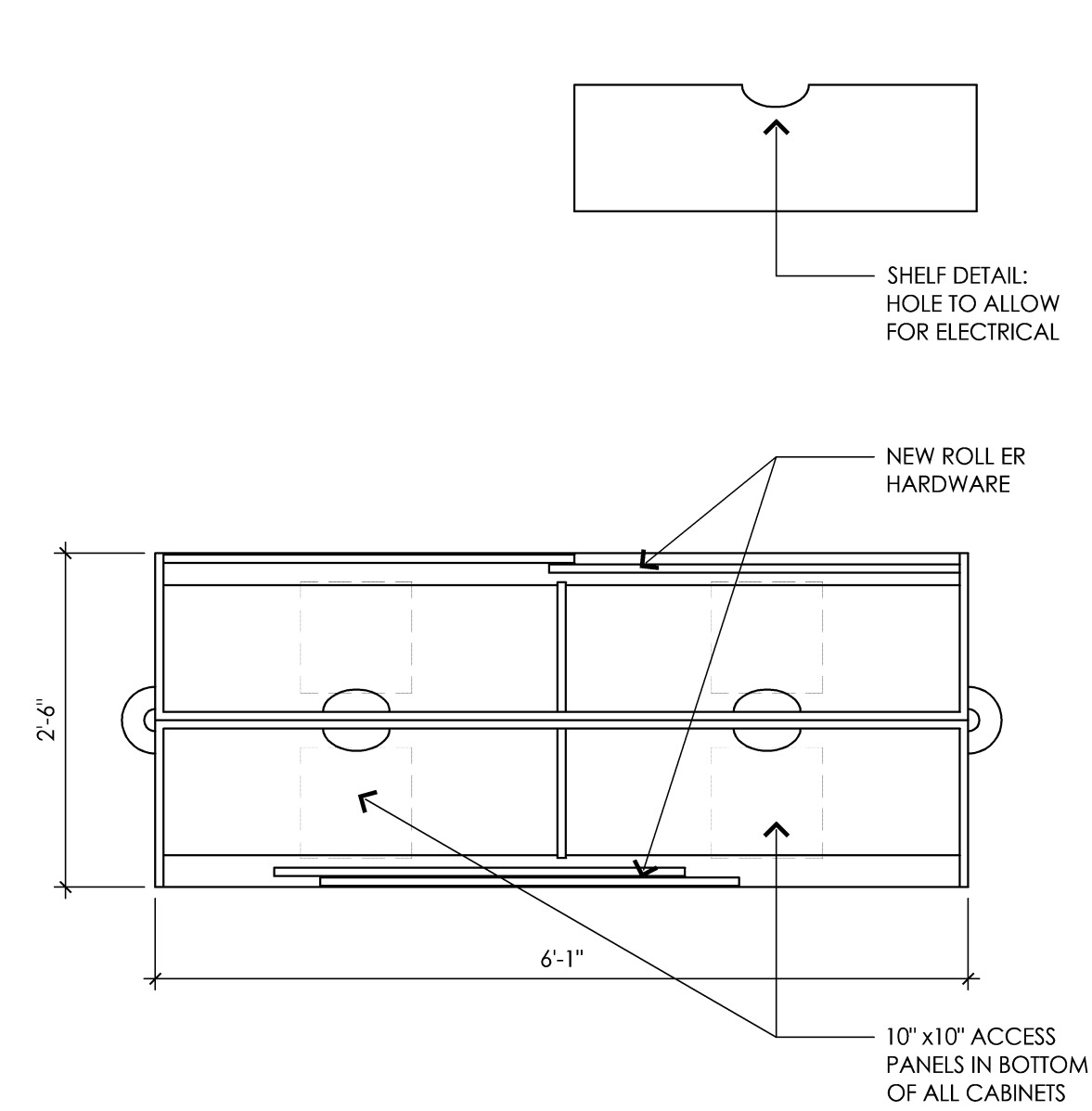
**5** Hair Dryer Station Roof Elevation  
3/4" = 1'-0"  
A.600



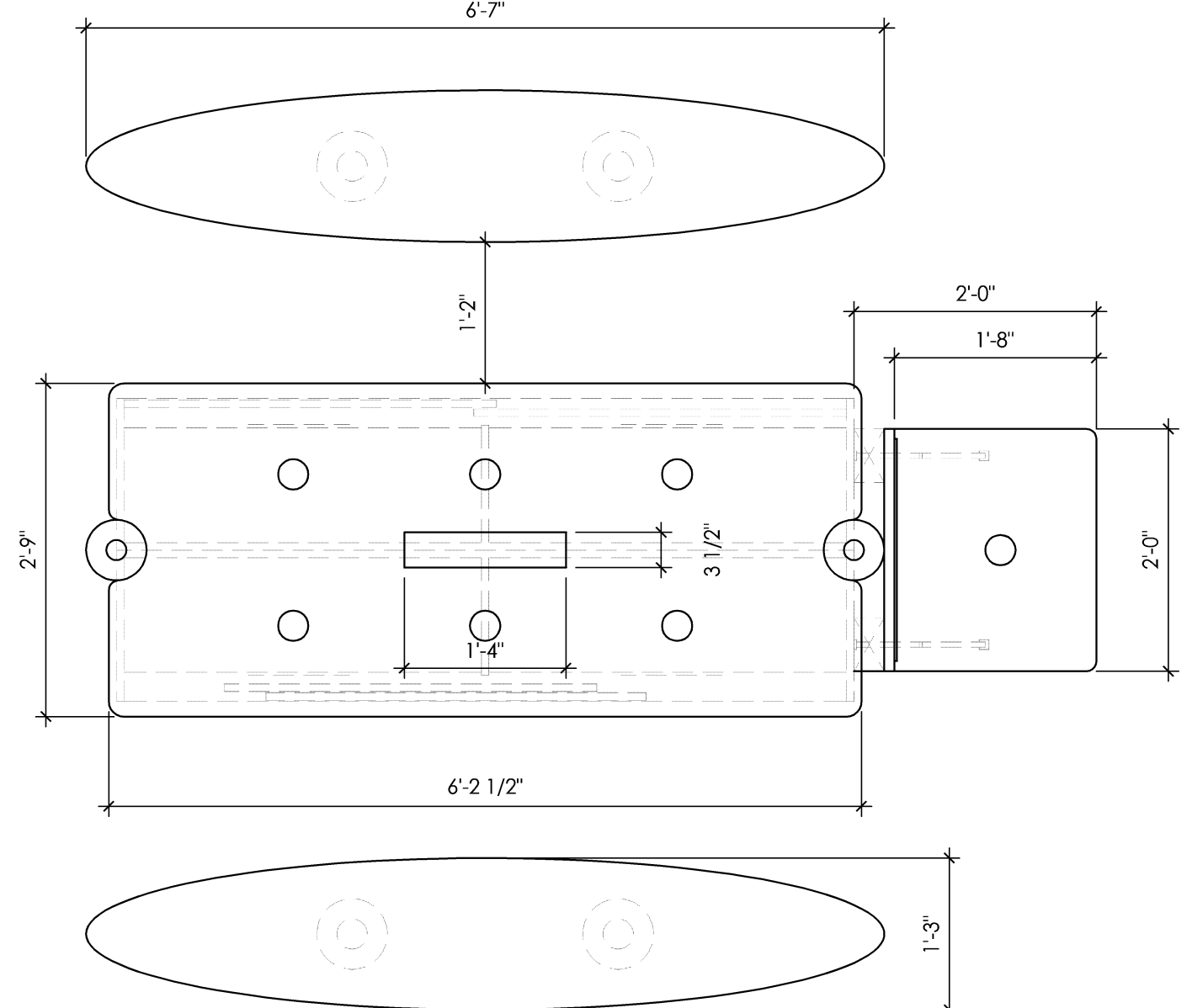
**6** Hair Dryer Station Roof Elevation  
3/4" = 1'-0"  
A.600



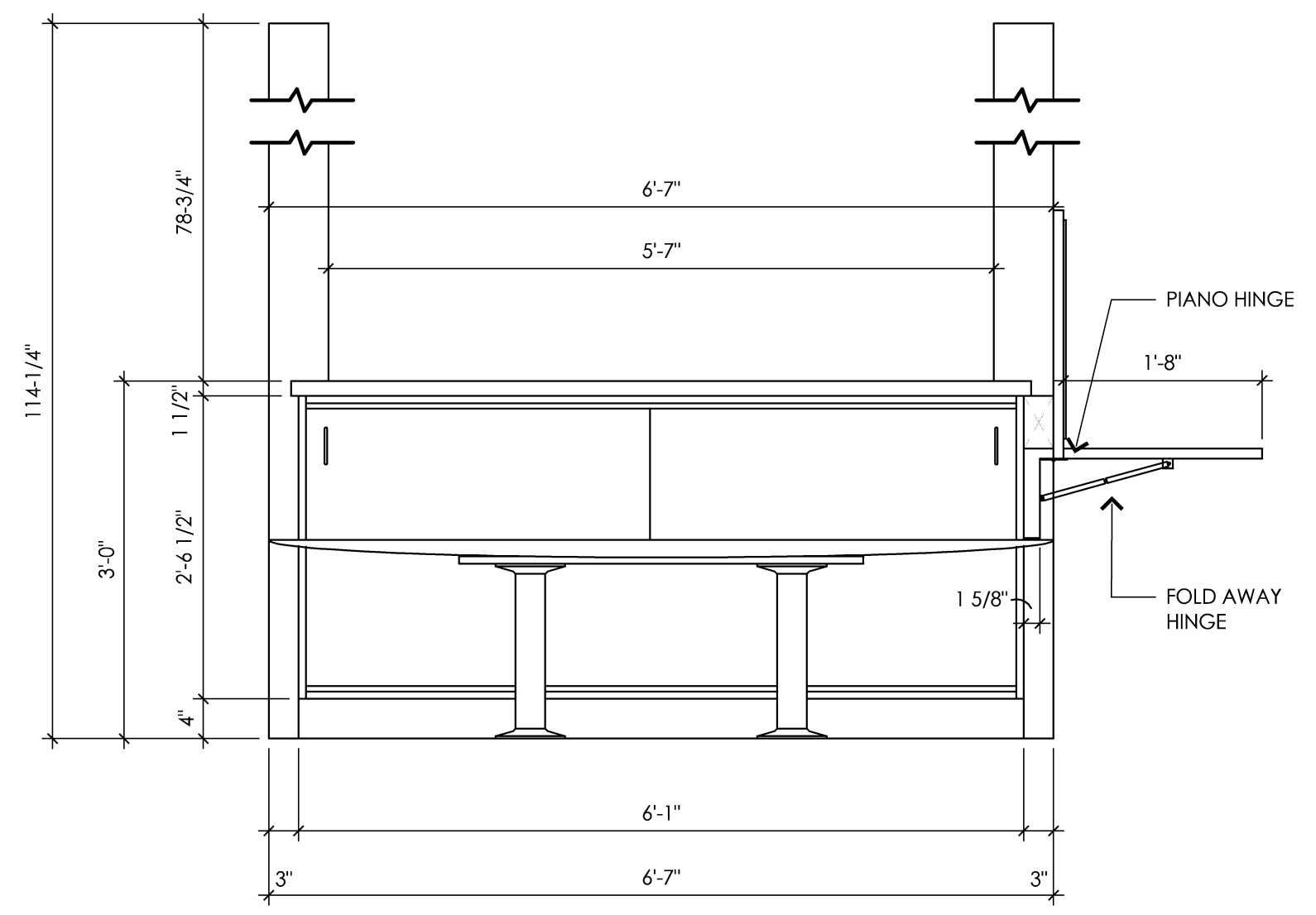
**7** Hair Dryer Station Roof Plan  
3/4" = 1'-0"  
A.600



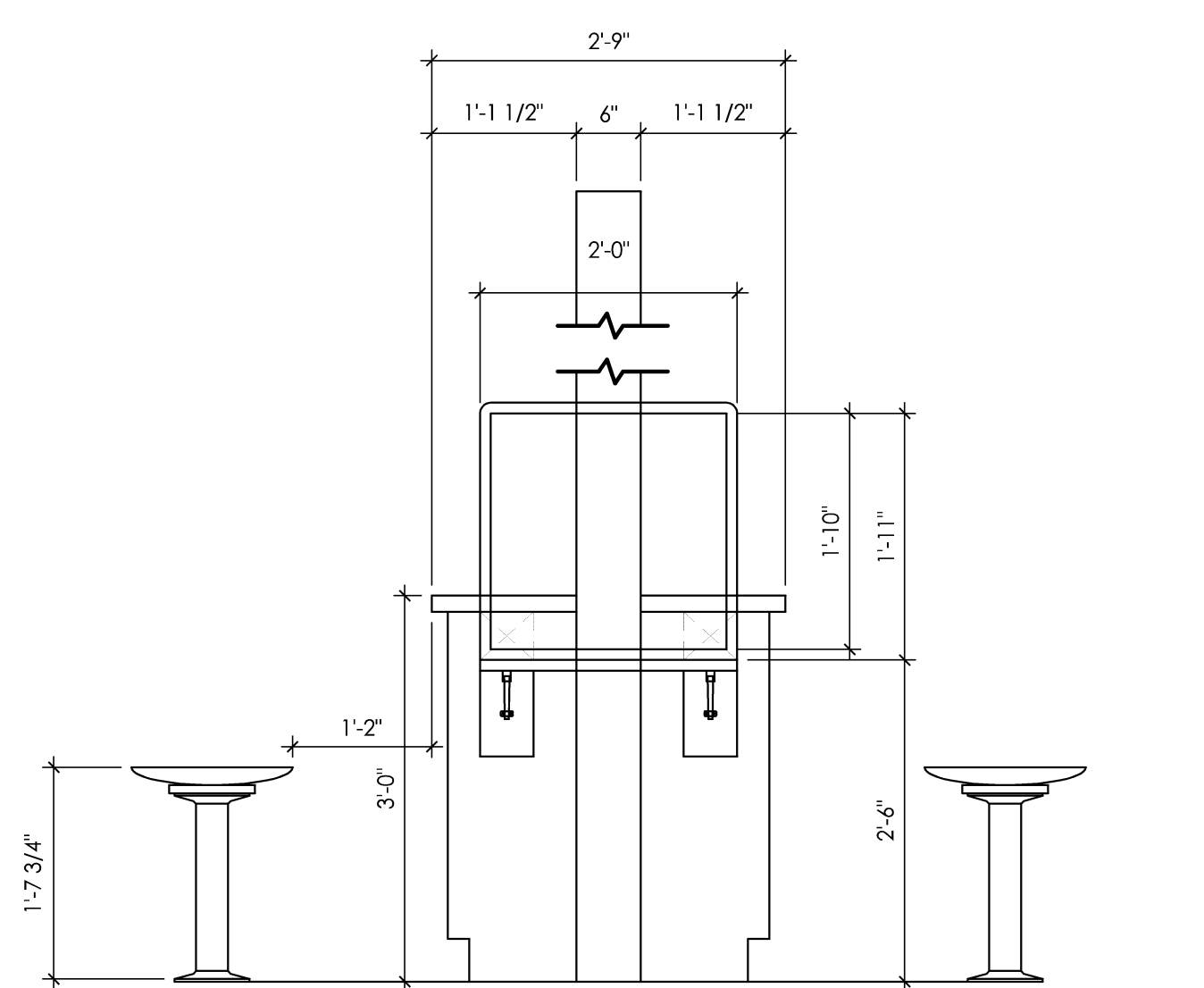
**1** Hair Dryer Station Cabinet Plan  
3/4" = 1'-0"  
A.600



**2** Hair Dryer Station Counter Plan  
3/4" = 1'-0"  
A.600

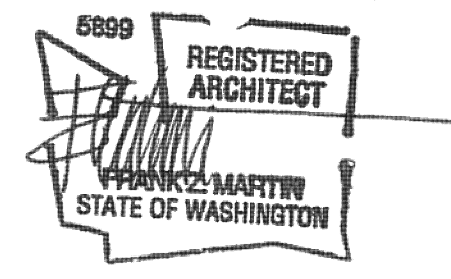


**3** Hair Dryer Station Cabinet Elevation  
3/4" = 1'-0"  
A.600



**4** Hair Dryer Station Cabinet Elevation  
3/4" = 1'-0"  
A.600

**PRCTI20221793**

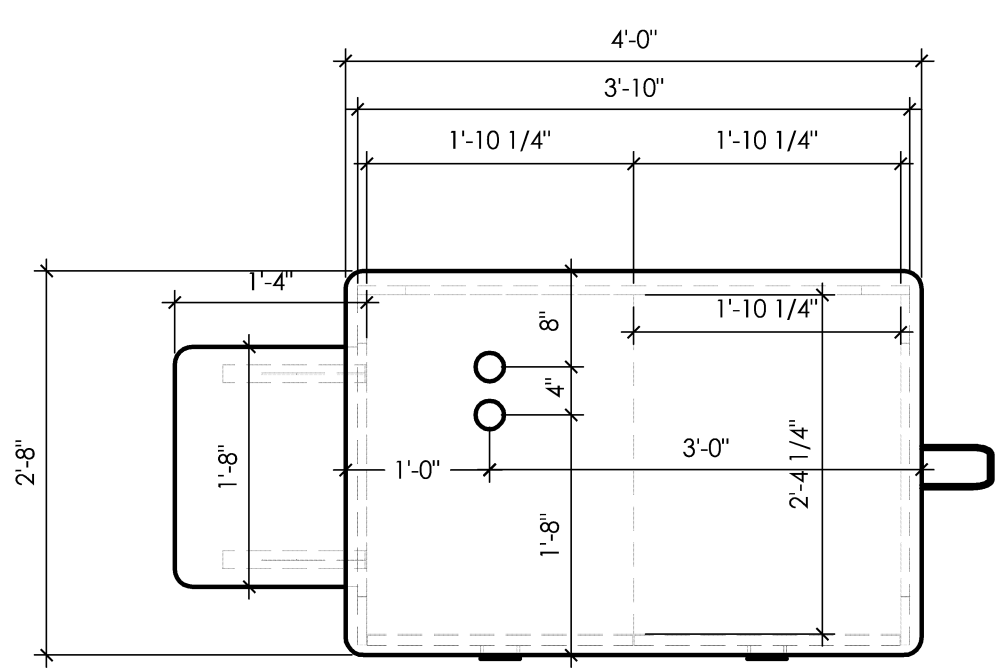


architect seal

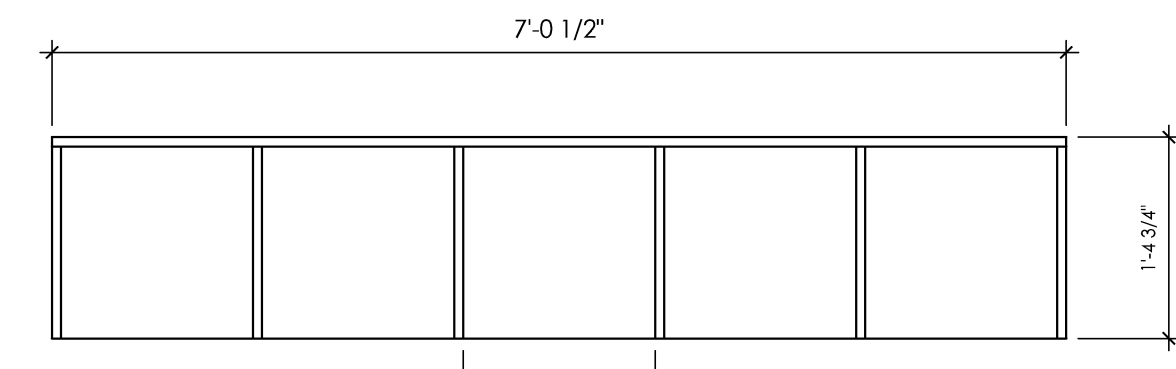
City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

**General Kiosk Notes:**

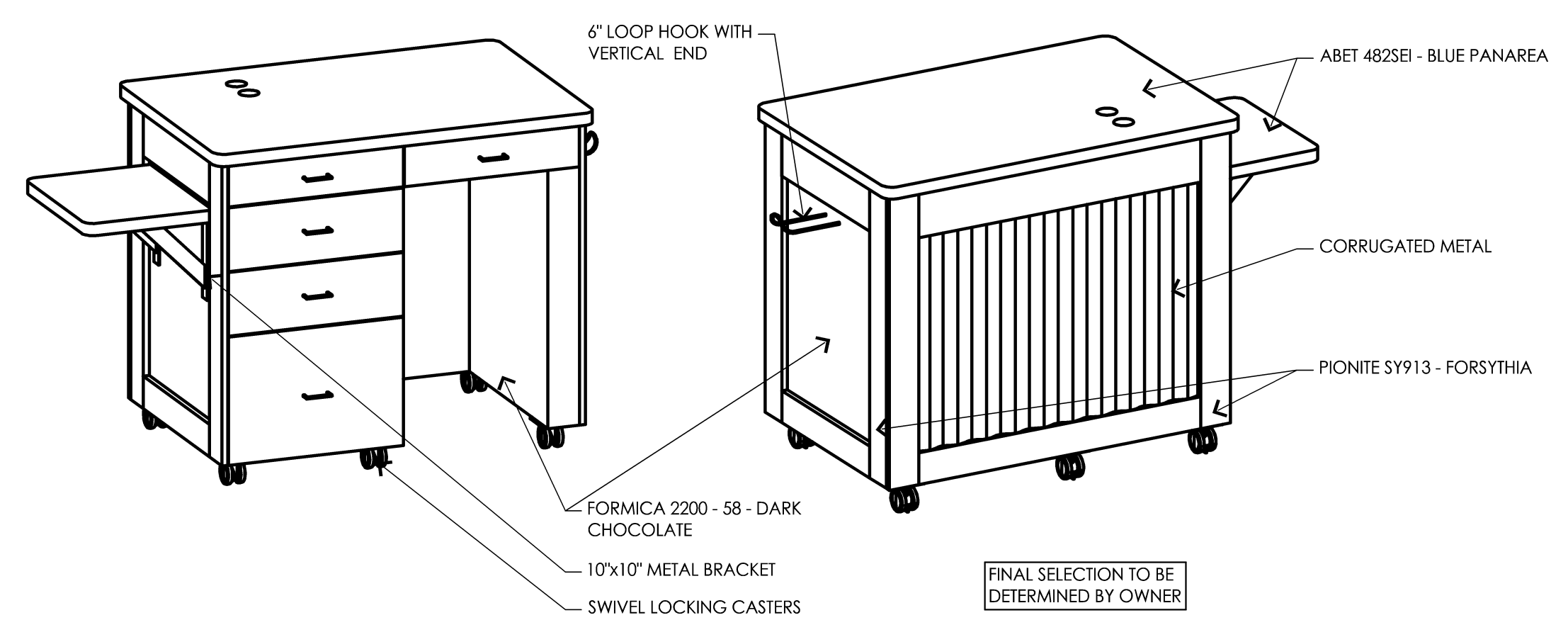
1. TO BE CONSTRUCTED SKY BLEND MOISTURE RESISTANT MELAMINE
2. CABINERY INTERIOR TO BE WHITE MELAMINE
3. DRAWER FACES TO BE FORMICA 2200-58-DARK CHOCOLATE
4. EXTERIOR TRIM TO BE FINISHED PIONITE SY913 - FORSYTHIA
5. LEFT AND RIGHT INSET PANELS TO BE FORMICA 2200-58-DARK CHOCOLATE
6. CUSTOMER FACING INSET PANEL TO BE CORRUGATED METAL - SIGNAGE BY OTHERS
7. COUNTERTOPS TO BE ABET 482SEI - BLUE PANAREA
8. (6) SWIVEL LOCKING CASTERS
9. (2) 2 3/8" GROMMETS IN LEFT AS FACING SIDE OF COUNTERTOP
10. 10"x10" METAL BRACKET FOR SIDE COUNTER SUPPORT
11. 6" LOOP HOOK WITH VERTICAL END
12. PROVIDED BY OSR INSTALLED BY G.C.



**6 Plan View**  
3/4" = 1'-0"  
A.100



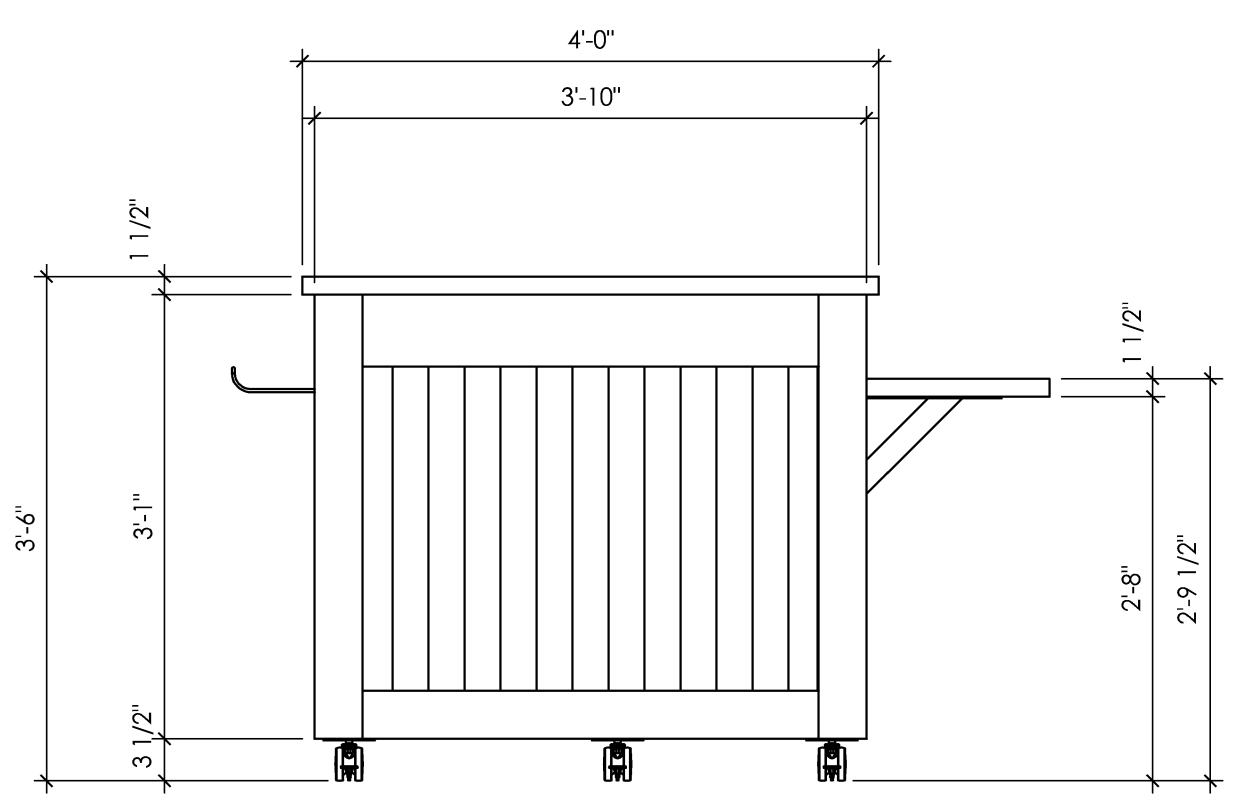
**3 Cubby Cabinet Plan**  
3/4" = 1'-0"  
A.100



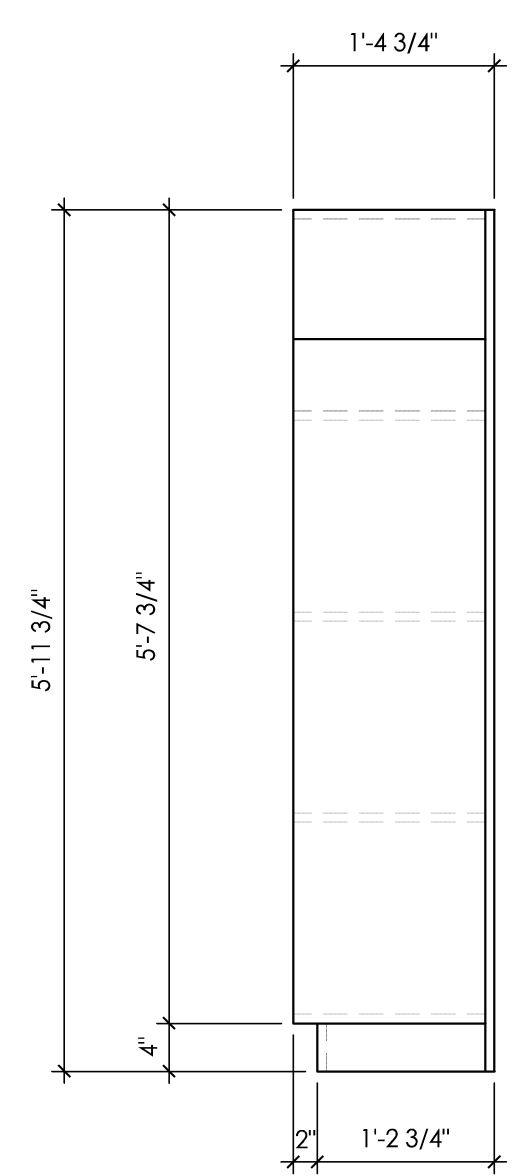
Employee Isometric View

Customer Isometric View

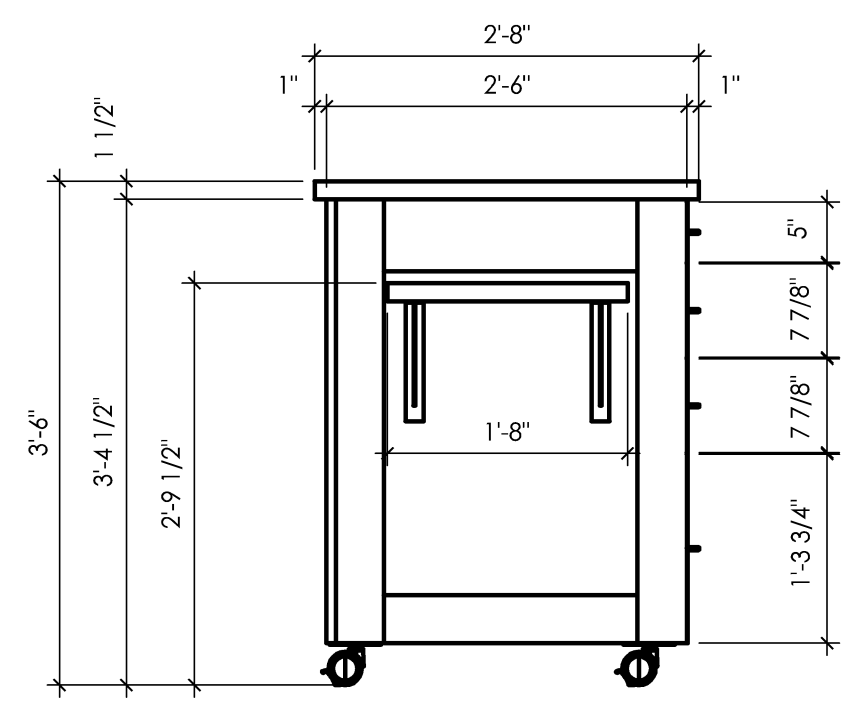
**8 Isometric Views - Employee/Customer**  
3/4" = 1'-0"



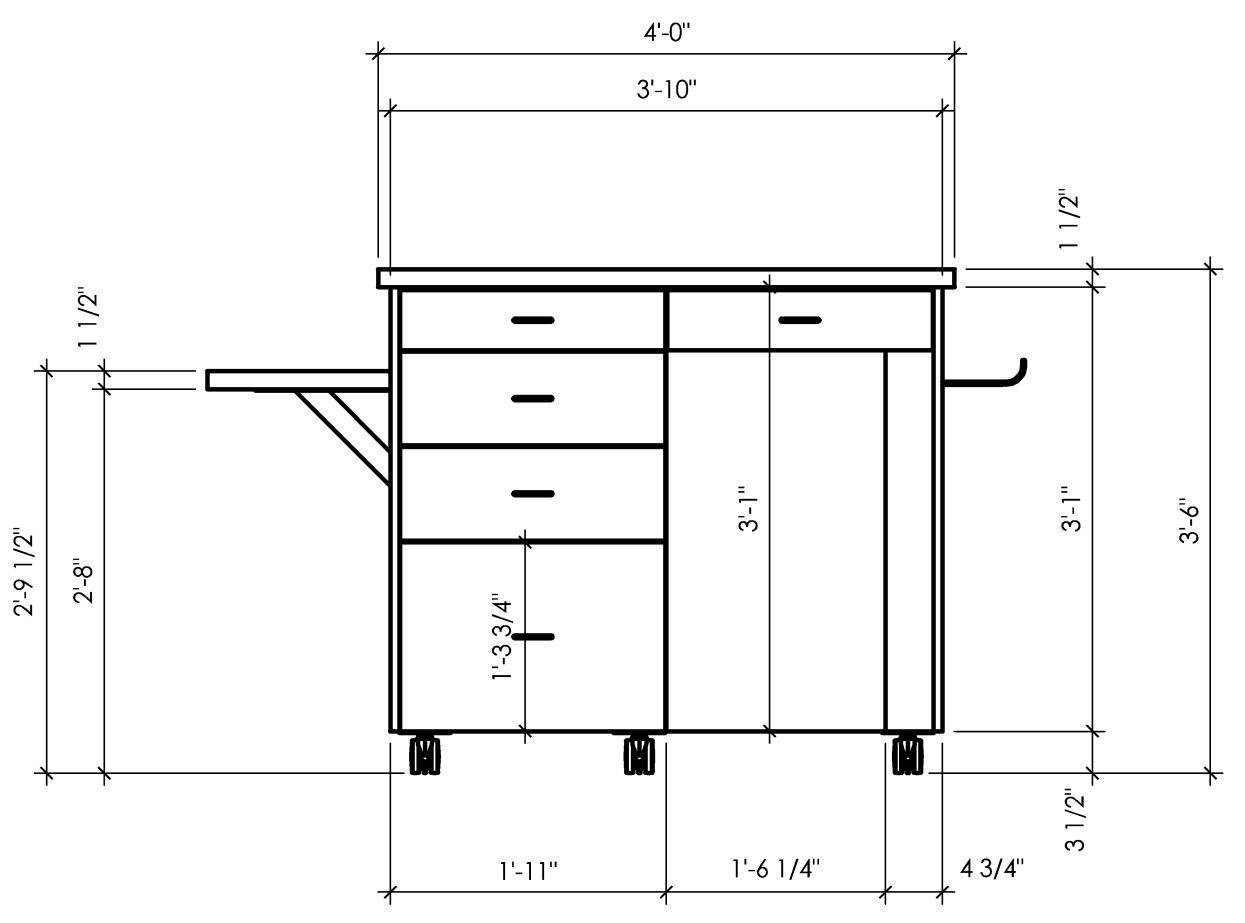
**5 Customer Elevation View**  
3/4" = 1'-0"



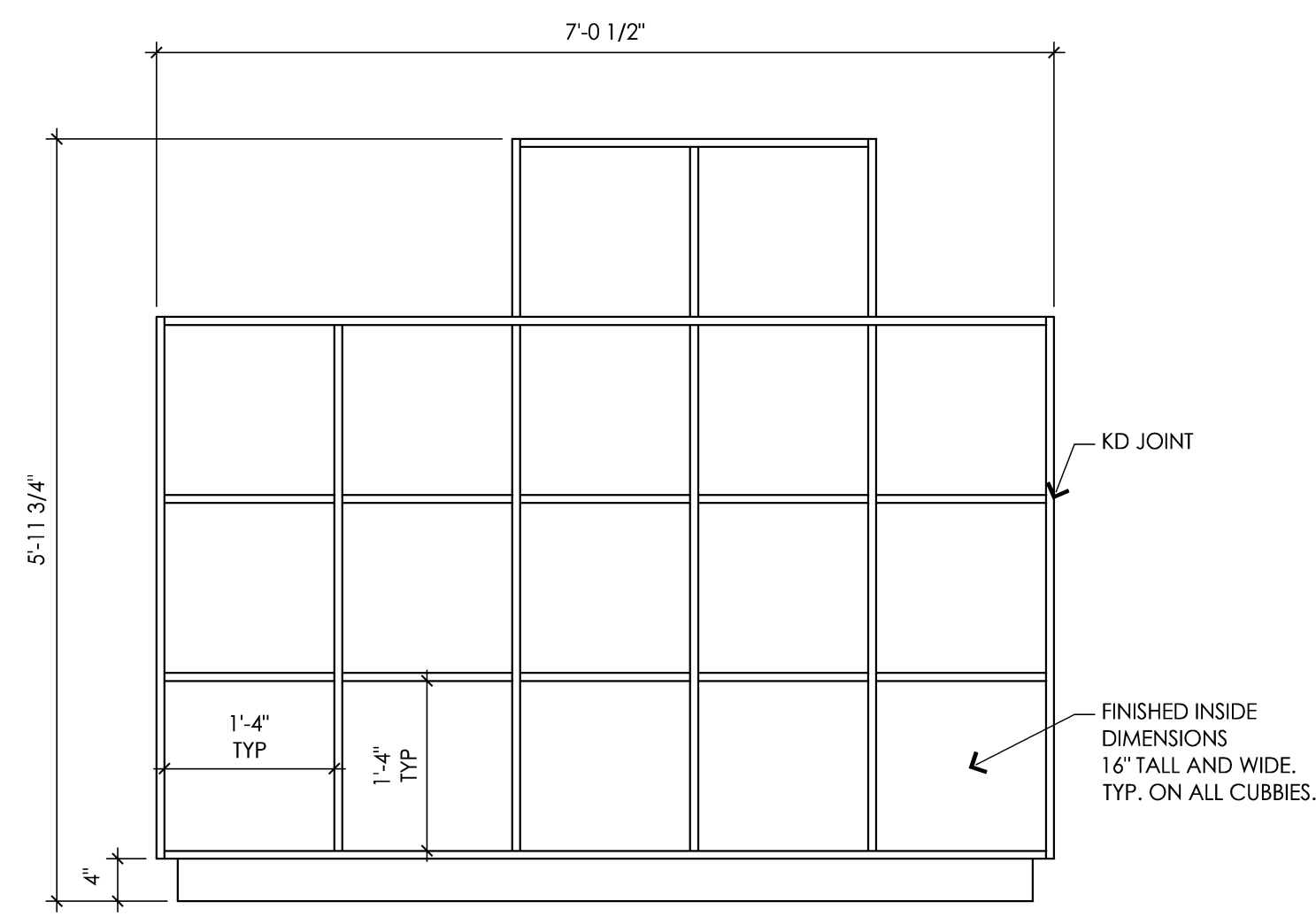
**2 Cubby Cabinet Side Elevation**  
3/4" = 1'-0"



**7 Side Elevation View**  
3/4" = 1'-0"



**4 Employee Elevation View**  
3/4" = 1'-0"



**1 Cubby Cabinet Front Elevation**  
3/4" = 1'-0"

Client  
Goldfish Swim School  
H&H Swim School  
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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

project: **Goldfish Swim School**  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

sheet title: **Reception Kiosk and  
Cubby Cabinet Plan and  
Elevations**

**dma**  
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job number **22006** sheet number **A.607**

**PRCTI20221793**

# Hardware Set Specifications

QTY.	ITEM	TYPE	MANUF. / FINISH	DESCRIPTION
<b>SET #2 (MAIN EXTERIOR ENTRY, DOUBLE DOOR)</b>				
2	CONTINUOUS HINGE	780-112HD	HAGER / ALUM.	
2	EXIT DEVICE	QED211	STANLEY / 626	EGRESS (PANIC) BAR
2	EXIT DEVICE TRIM (HANDLE)	BF156	ROCKWOOD / US260	8 IN. OFFSET, ALUM. PULL
1	CYLINDER LOCK			KAWNEER OR SIMILAR
2	DOOR CLOSER	4040XP	LCN / ALUM.	
1	DOOR THRESHOLD	425	NGP / ALUM.	
<b>SET #6 (POOL ENTRY, SINGLE DOOR)</b>				
1	CONTINUOUS HINGE	780-112HD	HAGER / ALUM.	
1	EXIT DEVICE	QED211	STANLEY / 626	EGRESS (PANIC) BAR
1	EXIT DEVICE TRIM (HANDLE)	BF156	ROCKWOOD / US260	8 IN. OFFSET, ALUM. PULL
1	CYLINDER LOCK			KAWNEER OR SIMILAR
1	DOOR CLOSER	4040XP	LCN / ALUM.	
2	SWEEPS	600A	NGP / ALUM.	
1	WALL STOP	1270CV	TRIMCO / 626	
<b>SET #7 (INTERIOR, CHANGING HUTS)</b>				
3	HINGES	FB8179 4.5x4.5	STANLEY / 652	STEEL PLATED
1	EXIT DEVICE TRIM (HANDLE)	C5F5-(L OR R)	VISILOK / 26D	INDICATOR LOCK AND LEVER
1	WALL STOP	1270CV	TRIMCO / 626	
1	KICK PLATE, 8"	8400-8X34	SCHLAGE / 626	SATIN CHROME
<b>SET #8 (INTERIOR, BATHROOMS)</b>				
3	HINGES	FB8179 4.5x4.5	STANLEY / 652	STEEL PLATED
1	EXIT DEVICE TRIM (HANDLE)	C5F5-(L OR R)	VISILOK / 26D	INDICATOR LOCK AND LEVER
1	WALL STOP	1270CV	TRIMCO / 626	
1	KICK PLATE, 8"	8400-8X34	SCHLAGE / 626	SATIN CHROME
<b>SET #9 (INTERIOR, OFFICE)</b>				
3	HINGES	FB8179 4.5x4.5	STANLEY / 652	STEEL PLATED
1	EXIT DEVICE TRIM (HANDLE)	C6F5-K	VISILOK / 26D	PRIVACY DOOR LOCK
1	WALL STOP	1270CV	TRIMCO / 626	
1	KICK PLATE, 8"	8400-8X34	SCHLAGE / 626	SATIN CHROME
<b>SET #10 (INTERIOR, DRY STORAGE)</b>				
3	HINGES	FB8179 4.5x4.5	STANLEY / 652	STEEL PLATED
1	EXIT DEVICE	QED211	STANLEY / 626	EGRESS (PANIC) BAR
1	EXIT DEVICE TRIM (HANDLE)	C6F5-K	VISILOK / 26D	PRIVACY DOOR LOCK
1	DOOR CLOSER	4040XP	LCN / ALUM.	
1	WALL STOP	1270CV	TRIMCO / 626	
1	KICK PLATE, 8"	8400-8X34	SCHLAGE / 626	SATIN CHROME
<b>SET #11 (INTERIOR, ACID ROOM)</b>				
3	HINGES	FB8179 4.5x4.5	STANLEY / 652	STEEL PLATED
1	EXIT DEVICE TRIM (HANDLE)	C6F5-K	VISILOK / 26D	PRIVACY DOOR LOCK
1	DOOR CLOSER	8501	NORTON / ALUM.	
1	FLOOR STOP	1215CKU	TRIMCO / 626	
<b>SET #12 (INTERIOR, MECHANICAL / PUMP ROOM)</b>				
3	HINGE	FB8179 4.5x4.5	STANLEY / 652	STEEL PLATED
1	EXIT DEVICE TRIM (HANDLE)	C6F5-K	VISILOK / 26D	PRIVACY DOOR LOCK
1	DOOR CLOSER	4040XP	LCN / ALUM.	
2	DOOR SWEEP	600A	NGP / ALUM.	NYLON BRUSH, SURFACE MOUNTED
1	WALL STOP	1270CV	TRIMCO / 626	
1	KICK PLATE, 8"	8400-8X34	SCHLAGE / 626	SATIN CHROME
<b>SET #13 (INTERIOR, STAFF ROOM)</b>				
3	HINGES	FB8179 4.5x4.5	STANLEY / 652	STEEL PLATED
1	EXIT DEVICE TRIM (HANDLE)	C6F5-K	VISILOK / 26D	PRIVACY DOOR LOCK
1	DOOR CLOSER	4040XP	LCN / ALUM.	
1	WALL STOP	1270CV	TRIMCO / 626	
1	KICK PLATE, 8"	8400-8X34	SCHLAGE / 626	SATIN CHROME
<b>SET #17 (EXTERIOR, MECHANICAL ROOM, EGRESS, DOUBLE DOOR)</b>				
6	HINGES	FB8197 4.5x4.5	STANLEY / 652	STEEL PLATED
1	EXIT DEVICE	QED214	STANLEY / 626	EGRESS (PANIC) BAR
1	EXIT DEVICE TRIM (HANDLE)	AL80PD	SCHLAGE / 626	Storeroom Lock, Neptune
2	FLUSH BOLTS	3917		6" STAINLESS STEEL INSTALLED AT TOP AND BOTTOM
1	DOOR CLOSER	4040XP	LCN/ALUM.	
1	DOOR THRESHOLD	425	NGP / ALUM.	
1	DOOR SWEEP	600A	NGP / ALUM.	NYLON BRUSH, SURFACE MOUNTED, SINGLE SWEEP, MOUNTED INSIDE ONLY
2	WEATHER STRIPPING	C419A	NGP / ALUM.	ANODIZED ALUMINUM BRUSH SEAL
<b>SET #20 (EXTERIOR, MECHANICAL ROOM, EGRESS AND NON EGRESS, SINGLE DOOR)</b>				
3	HINGES	FB8197 4.5x4.5	STANLEY / 652	STEEL PLATED
1	EXIT DEVICE	QED211	STANLEY / 626	EGRESS (PANIC) BAR
1	EXIT DEVICE TRIM (HANDLE)	QET275	STANLEY / 626	NIGHT LATCH PULL FOR KEY ENTRY.
1	DOOR CLOSER	4040XP	LCN / ALUM.	
1	THRESHOLD	425	NGP/ALUM.	
1	DOOR SWEEP	600A	NGP/ALUM.	
1	WEATHER STRIPPING	C19A	NGP/ALUM.	

# Door Schedule

DOOR NO.	DOOR SIZE / LOCATION	DOOR		FRAME	HDWR SET	NOTES
		TYPE	MATERIAL / FINISH			
100	(2) 3'-0" X 7'-0" / VESTIBULE	B	CLEAR ANOD. ALUM. / CLEAR TEMP. GLASS	CLEAR ANOD. ALUM.	HDWR SET 2	A, B, C, K
100.1	(2) 3'-0" X 7'-0" / VESTIBULE	B	CLEAR ANOD. ALUM. / CLEAR TEMP. GLASS	CLEAR ANOD. ALUM.	HDWR SET 2	A, B, C, K, L
101	3'-0" X 7'-0" / OFFICE	C	SOLID CORE WOOD / PAINT	WOOD / PAINT	HDWR SET 9	B, D, S, T
102	3'-0" X 7'-0" / STORAGE	C	SOLID CORE WOOD / PAINT	WOOD / PAINT	HDWR SET 9	B, D, S, T
103	NOT USED					
104	3'-0" X 7'-0" / MEN'S B.F. TOILET	E	SOLID CORE WOOD / PAINT	WOOD / PAINT	HDWR SET 8	B, C, D, T
105	NOT USED					
106	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.1	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.2	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.3	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.4	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.5	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.6	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.7	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.8	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.9	3'-0" X 7'-0" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.10	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.11	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.12	3'-0" X 5'-6" / CHANGING AREA	D	SOLID CORE WOOD W/ FALSE LOUVER PROFILE / PAINT	3'-0" X 6'-8" WOOD / PAINT	HDWR SET 7	B, D, E, F
106.13	NOT USED					
106.14	NOT USED					
106.15	NOT USED					
107	NOT USED					
108	3'-0" X 7'-0" / EGRESS	F	METAL INSULATED / PAINT	HOLLOW METAL / PAINT	HDWR SET 20	A, B, C, J, N, O, R, L, X
109	3'-0" X 7'-0" / WOMEN'S B.F. TOILET	E	SOLID CORE WOOD / PAINT	WOOD / PAINT	HDWR SET 8	B, C, D, T
110	3'-0" X 7'-0" / GEN. NEUTRAL B.F. TOILET	E	SOLID CORE WOOD / PAINT	WOOD / PAINT	HDWR SET 8	B, C, D, T
111	3'-0" X 7'-0" / GEN. NEUTRAL B.F. TOILET	E	SOLID CORE WOOD / PAINT	WOOD / PAINT	HDWR SET 8	B, C, D, T
112	3'-0" X 7'-0" / ELECTRICAL	E	SOLID CORE WOOD / PAINT	WOOD / PAINT	HDWR SET 10	B, C, D, T
113	3'-0" X 7'-0" / POOL	G	CLEAR ANOD. ALUM. / CLEAR TEMP. GLASS	CLEAR ANOD. ALUM.	HDWR SET 6	A, B, C, L, M, U
113.1	3'-0" X 7'-0" / POOL	G	CLEAR ANOD. ALUM. / CLEAR TEMP. GLASS	CLEAR ANOD. ALUM.	HDWR SET 6	A, B, C, L, M, U
114	3'-0" X 7'-0" / GEN. NEUTRAL B.F. TOILET	E	METAL INSULATED / PAINT	HOLLOW METAL / PAINT	HDWR SET 6	B, C, T
115	3'-0" X 7'-0" / STAFF AREA	C	SOLID CORE WOOD / PAINT	WOOD / PAINT	HDWR SET 13	B, C, D, T
116	NOT USED					
117	3'-4" X 7'-0" / WET STORAGE	B	CLEAR ANOD. ALUM. / CLEAR TEMP. GLASS (MATCH EXIST.)	CLEAR ANOD. ALUM. (MATCH EXIST.)	HDWR SET 2	A, B, C, K, N, P, U
118	3'-0" X 7'-0" / STORAGE	C	SOLID CORE WOOD / PAINT	WOOD / PAINT	HDWR SET 9	B, D, S, T
119	3'-4" X 7'-0" / PUMP ROOM	E	METAL INSULATED / PAINT	HOLLOW METAL / PAINT	HDWR SET 12	B, C, K, S, T, X
119.1	3'-0" X 7'-0" / PUMP ROOM	E	METAL INSULATED / PAINT	HOLLOW METAL / PAINT	HDWR SET 12	B, C, S, T, X

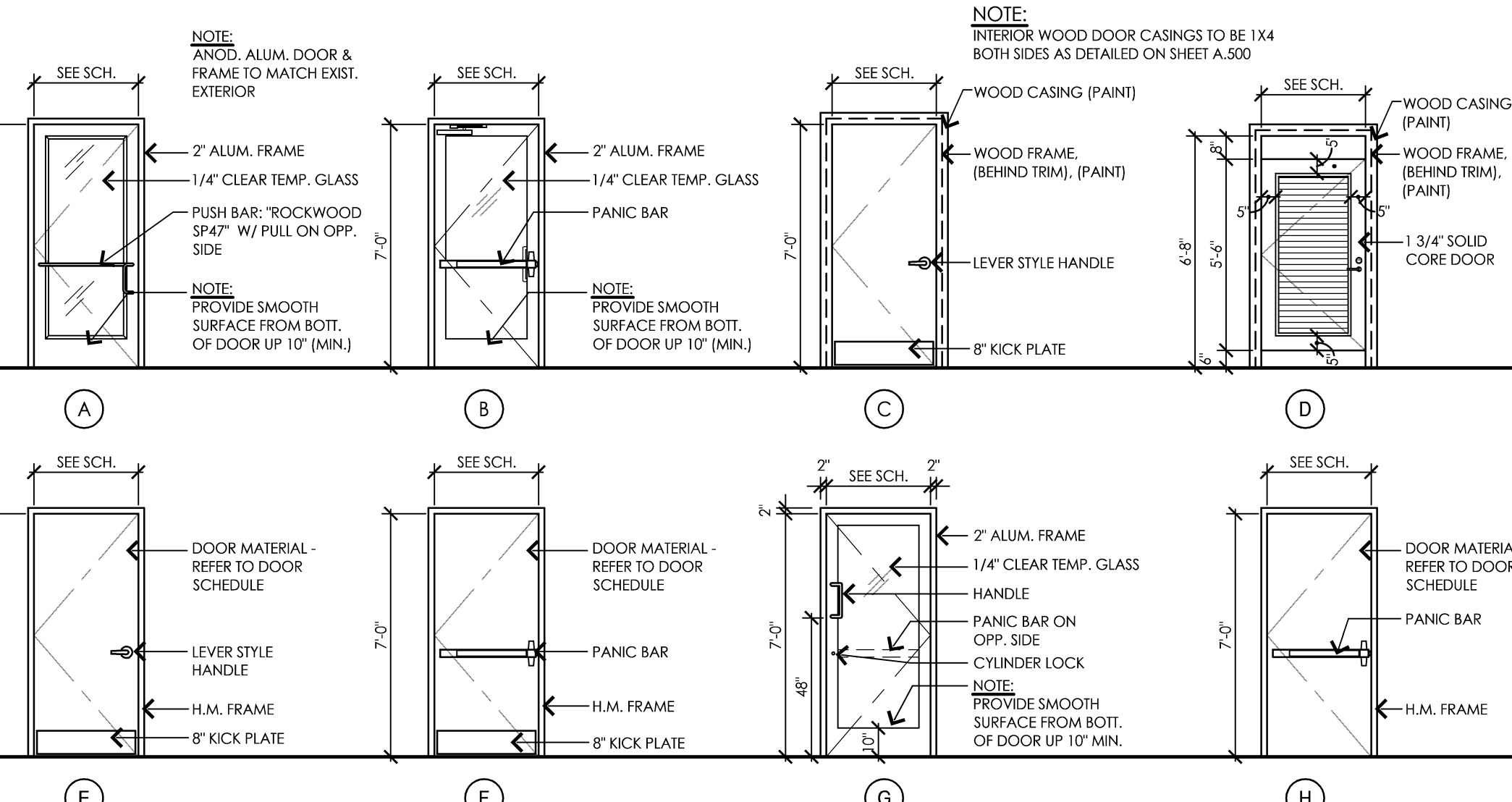
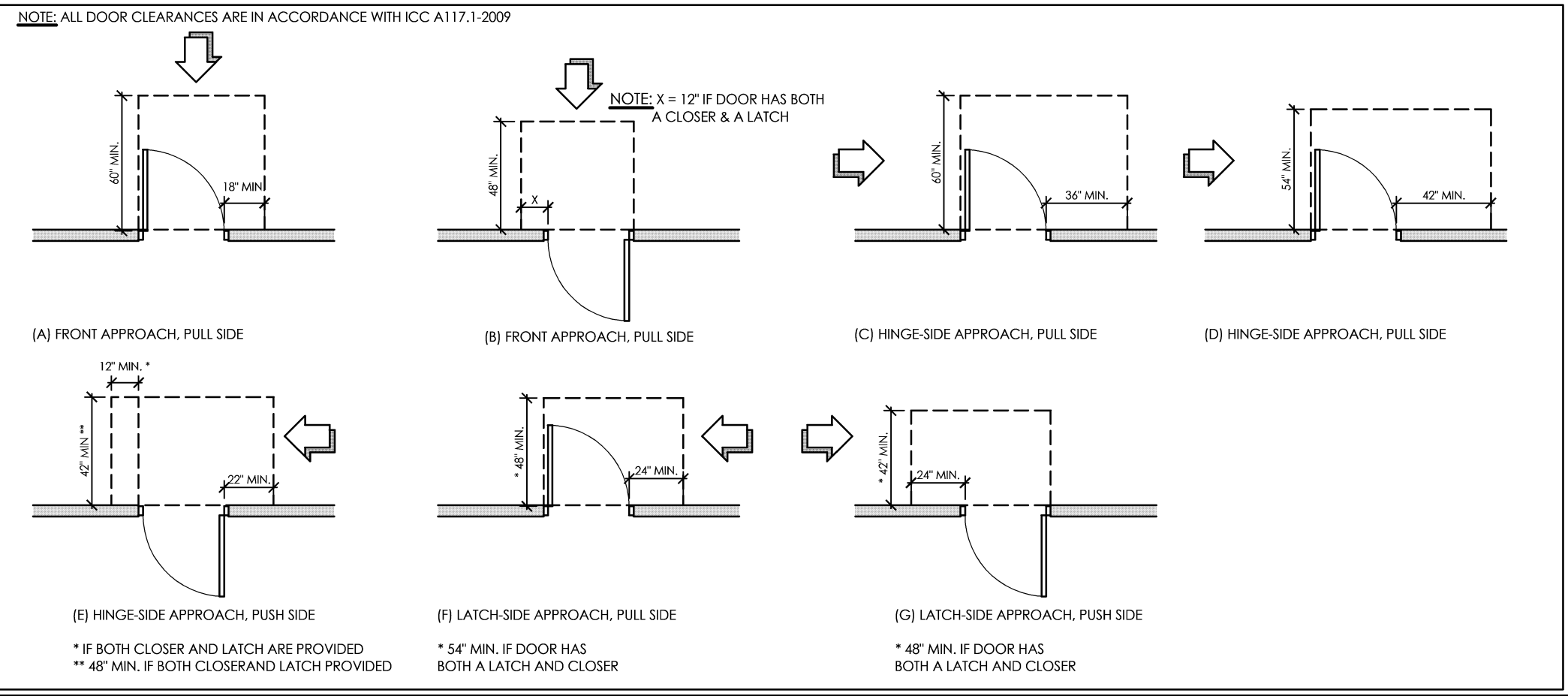
# Door Notes:

- A. EGRESS EXIT DOORS: EGRESS EXIT DOORS AND ARE TO COMPLY WITH THE CURRENT APPLICABLE CODES (SEE G.003 SHEET). LOCKSET IS NOT PERMITTED TO LOCK IN THE DIRECTION OF EGRESS PER IBC
- B. HARDWARE MANUFACTURE AS SPECIFIED, OR APPROVED EQUAL
- C. DOOR LOCKS SHALL BE MEDIUM DUTY GRADE 2 OPERATIONAL AND SECURITY
- D. ALL WOOD DOORS TO BE PAINT GRADE (SMOOTH) SOLID CORE WOOD DOORS
- E. BOTTOM OF DOOR TO MATCH BOTTOM OF CHANGING HUTS
- F. MOUNT CHANGING HUT DOOR HINGES: 8" FROM TOP OF DOOR TO TOP OF HINGE, CENTER OF HINGES TO CENTER OF DOOR, 12" FROM BOTTOM OF DOOR TO BOTTOM OF HINGE
- G. EXISTING FRONT DOORS TO RECEIVE NEW EGRESS HARDWARE, POSSIBLE REPLACEMENT OF DOOR. SEE OPTIONS
- H. EXISTING DOOR TO UPGRADE HARDWARE TO PUSH BAR: "ROCKWOOD SP47". REMOVE EXISTING LOCKING HARDWARE
- I. CONCEALED VERTICAL ROD (CVR) TYPE
- J. SINGLE SWEEP, MOUNTED INSIDE ONLY
- K. DOUBLE SWEEP, MOUNTED INSIDE AND OUTSIDE
- L. CONTACT ARCHITECT FOR WALL STOP IF APPLICABLE
- M. POOL DOORS MUST VERIFY HANDLE MOUNTING HEIGHTS AND LOCKING REQUIREMENTS BEFORE SHOP DRAWINGS
- N. OUTSIDE ALWAYS LOCKED. KEY RETRACTS LATCH FOR ENTRANCE
- O. FLUSH BOLTS ARE TO BE INSTALLED AT TOP AND BOTTOM OF BOTH DOORS
- P. PROVIDE 4" HEAD
- Q. RE-KEY PER TENANT REQUIREMENT
- R. EXTERIOR PAINT COLOR TO BE DETERMINED BY LANDLORD. INTERIOR PAINT COLOR TO BE DETERMINED BY TENANT.
- S. VERIFY FINAL PAINT COLOR WITH TENANT.
- T. PROVIDE KICK PLATE TO PUSH SIDE OF DOOR.
- U. PROVIDE WEATHER STRIPPING FOR MOISTURE RESISTANT SEAL (INTERIOR DOORS) PROVIDE WEATHER STRIPPING & SWEEPS (EXTERIOR DOOR)
- V. BY LANDLORD
- W. INSULATED METAL DOOR REQUIRES A MAXIMUM U-VALUE OF 0.37.
- X. UL-RATED DOOR SHALL MEET FIRE RATING FOR ASSOCIATED UL-RATED WALL ASSEMBLY.
- Y. LOCKS TO BE REKEYED, VERIFY WITH LANDLORD CHANGE HARDWARE TO MATCH

# Specifications:

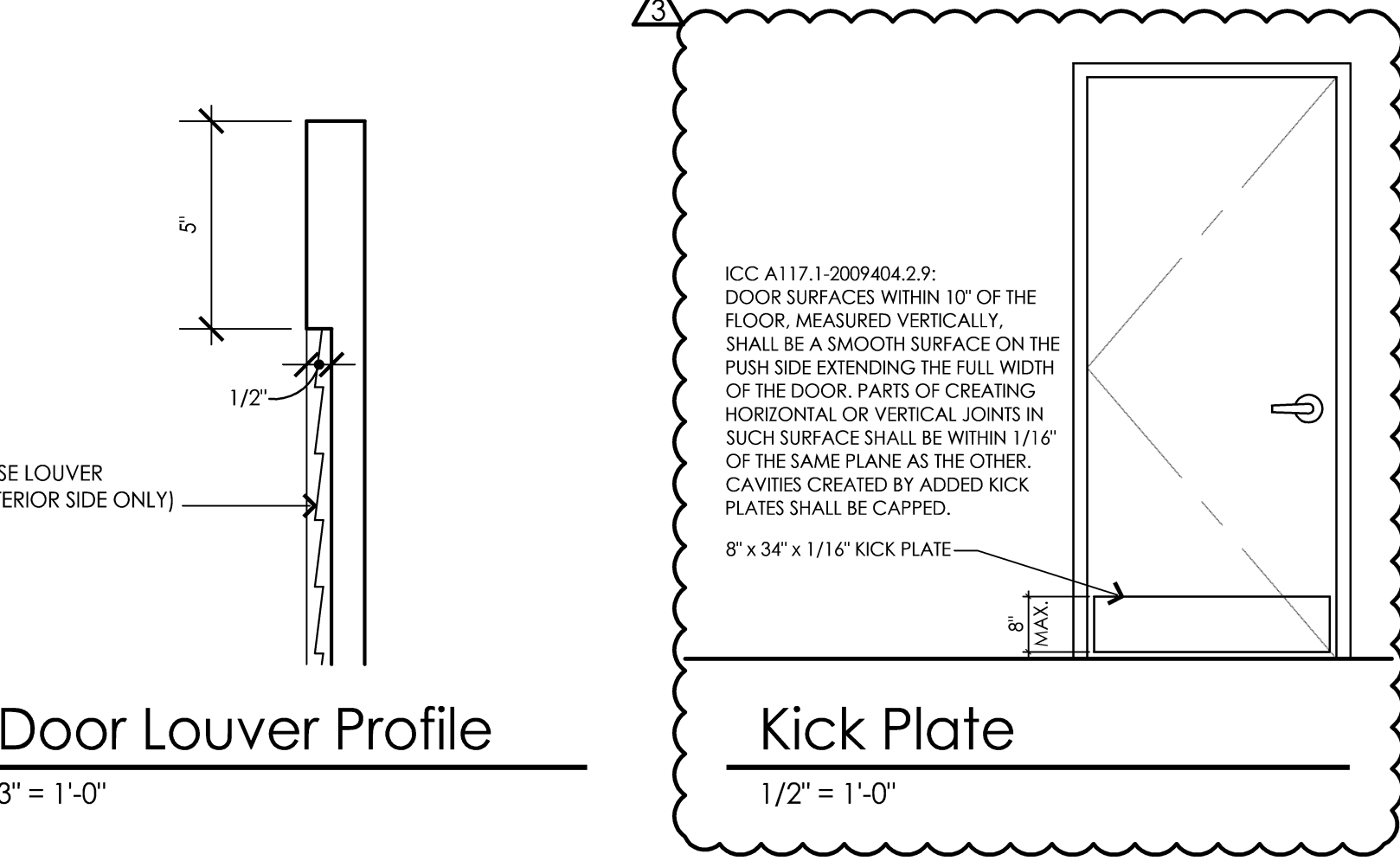
- DIVISION 08 - DOORS AND WINDOWS**
- A. DOORS AND FRAMES, GENERAL: REFER TO ROOM / DRY FINISH SCHEDULE FOR DOOR LOCATIONS.
- B. EXTERIOR DOORS AND GLAZING:
  - 1. ALUMINUM STOREFRONT AND ENTRANCES:
    - A. EXTERIOR ALUMINUM DOORS, MEDIUM STEEL ANODIZED ALUMINUM WITH 10" HIGH BOTTOM RAIL. GLAZED WITH 1/4" THICK TINTED GLASS MATCHING ENTRANCE FRAMING OR INSULATED METAL PANEL INSERT (SEE SCHEDULE).
    - B. EXTERIOR ALUMINUM DOOR FRAMING: 2" X 4-1/2" ANODIZED ALUMINUM (MATCH EXISTING FRAME COLOR).
    - C. PRODUCTS: FRAMING SYSTEM TO BE MANUFACTURED BY KAWNEER, VISTAWALL, GRAHAM, OR APPROVED SUBSTITUTE.
  - 2. GLAZING IN DOORS SHALL BE TEMPERED SAFETY GLASS.
- C. INTERIOR DOORS, WINDOWS AND GLAZING:
  - 1. DOORS
    - A. STEEL DOORS: 3'-0" BY 7'-0" BY 1-3/4" FABRICATED WITH 18 GAGE STEEL FACE SHEETS, MANUFACTURERS STANDARD CORES, WITH 24" BY 30" CLEAR TEMPERED GLASS LITE. WHERE A FIRE-RATING IS REQUIRED, PROVIDE DOORS WITH FIRE-RATED CORES AND LINE ITEM BID ALTERNATE WITH 4" BY 24" CLEAR WIRE GLASS LITE.
    - B. WOOD DOORS: 3'-0" BY 7'-0" BY 1-3/4" SOLID CORE WITH ROTARY CUT VENEER (E.N.O.), FACTORY OR FIELD FINISHED. WHERE A FIRE-RATING IS REQUIRED, PROVIDE DOORS WITH FIRE-RATED CORES AND MATCHING VENEERS, AND WITH 3" BY 33" CLEAR TEMPERED WIRE GLASS LITE.
  - 2. STEEL FRAMES:
    - A. STEEL DOOR FRAMES: FABRICATED FROM 16 GAGE STEEL SHEET WITH COPED AND WELDED CORNERS, JAMB AND FLOOR ANCHORS AND MORTAR GUARDS.
    - B. STEEL SIDELIGHT AND BORROWED LIGHT FRAMES: FABRICATED FROM 16 GAGE STEEL SHEET WITH COPED AND WELDED CORNERS, JAMB AND FLOOR ANCHORS AND MORTAR GUARDS. PROVIDE FIXED STOPS ON CORRIDOR OR SECURED SIDE OF PARTITION AND REMOVABLE STOPS ON ROOM OR NON-SECURED SIDE PARTITION.
    - 3. GLAZING IN INTERIOR DOORS AND FRAMES SHALL BE TEMPERED SAFETY GLASS WHERE REQUIRED BY BUILDING CODE AND LOCAL AUTHORITIES HAVING JURISDICTION CODE. GLAZING IN FIRE-RATED DOORS SHALL BE 1/4" THICK CLEAR WIRE GLASS.
  - D. SPECIAL DOOR REQUIREMENTS:
    - 1. ALL EXTERIOR PEDESTRIAN DOORS SHALL BE PREPARED FOR SECURITY SYSTEMS.
  - E. HARDWARE FOR FIRE-RATED DOORS AND FRAMES, GENERAL: PROVIDE FIRE-RATED DOOR HARDWARE FOR EACH FIRE-RATED DOOR OPENING.
  - F. DOOR HINGES: BHMA A156.1, LISTED UNDER CATEGORY A IN BHMA'S "CERTIFIED PRODUCT DIRECTORY" AND AS FOLLOWS:
    - QUANTITY - DOOR HEIGHT
    - THREE - 61 TO 90 INCHES
- H. EXIT DEVICES:
  - 1. BHMA A156.3, GRADE 1, LISTED UNDER CATEGORY G IN BHMA'S "CERTIFIED PRODUCT DIRECTORY."
  - A. EXIT DEVICES FOR MEANS OF EGRESS DOORS: COMPLY WITH NFPA 101.
  - EXTERIOR - CONTINUOUS GEAR - ALUMINUM
  - EXTERIOR - BALL BEARING BUTTS - SATIN STAINLESS STEEL
  - INTERIOR - BALL BEARING BUTTS - SATIN CHROME ON STEEL BASE
  - FIRE-RATED ASSEMBLY - BALL BEARING BUTTS - SATIN CHROME ON STEEL
  - APPLICATION - TYPE - MATERIAL
  - EXTERIOR - CONTINUOUS GEAR - ALUMINUM
  - EXTERIOR - BALL BEARING BUTTS - SATIN STAINLESS STEEL
  - INTERIOR - BALL BEARING BUTTS - SATIN CHROME ON STEEL BASE
  - FIRE-RATED ASSEMBLY - BALL BEARING BUTTS - SATIN CHROME ON STEEL
  - APPLICATION - TYPE - MATERIAL
- I. LOCKS AND LATCHES:
  - 1. BHMA A156.2, GRADE 1, SERIES 4000, LISTED UNDER CATEGORY F IN BHMA'S "CERTIFIED PRODUCT DIRECTORY."
  - A. TYPE: BORED (CYLINDRICAL) LOCKS.
  - B. TRIM: LEVER AND ROSE, PATTERN SELECTED BY OWNER.
  - C. LATCHBOLT THROW: AS REQUIRED FOR FIRE-LABELED DOORS AND NOT LESS THAN 1/2-INCH.
  - D. BACKSET: 2-3/4 INCH.
  - E. STRIKES FOR BORED LOCKS AND LATCHES: BHMA A156.2.
- J. WEATHER STRIPPING:
  - 1. BHMA A156.5, GRADE 1, 5/8" PIN-RIM OR MORTISE TYPE AS APPLICABLE TO LOCK WITH INTERCHANGEABLE CORE INSERTS AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, FOR FIRE AND PANIC PROTECTION, BASED ON TESTING ACCORDING TO UL 305 AND NFPA 252.
- K. OPERATING TRIM AND THRESHOLDS:
  - 1. PRODUCED BY ANY BHMA MEMBER AND COMPLYING WITH APPLICABLE BHMA STANDARDS.
  - 2. PROVIDE THRESHOLDS WITH INTEGRAL THERMAL BREAK AT EXTERIOR DOORS.
- L. CLOSERS:
  - 1. BHMA A156.4, GRADE 1, LISTED UNDER CATEGORY C IN BHMA'S "CERTIFIED PRODUCT DIRECTORY."
  - A. PROVIDE TYPE OF ARM REQUIRED FOR CLOSER TO BE LOCATED ON NON-PUBLIC SIDE OF DOOR, UNLESS OTHERWISE INDICATED.
  - B. WHERE APPROVED BY OWNER, PROVIDE HEAVY DUTY CLOSER ARMS WITH INTEGRAL, CUSHIONED STOP IN LIEU OF SCHEDULED OVERHEAD STOPS.
- M. OPERATING TRIM AND THRESHOLDS:
  - 1. PRODUCED BY ANY BHMA MEMBER AND COMPLYING WITH APPLICABLE BHMA STANDARDS.
  - 2. PROVIDE THRESHOLDS WITH INTEGRAL THERMAL BREAK AT EXTERIOR DOORS.
- N. WEATHER GASKETS AND SEALS:
  - 1. PRODUCED BY ANY BHMA MEMBER AND COMPLYING WITH APPLICABLE BHMA STANDARDS.
- O. DEMONSTRATION:
  - 1. AFTER SUBSTANTIAL COMPLETION, INSTRUCT OWNERS PERSONNEL IN THE USE OF THE CYLINDERS AND KEYS. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNERS MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN DOOR HARDWARE AND DOOR HARDWARE FINISHES.

# Maneuvering Clearances at Swinging Doors



# Door Elevations

1/4" = 1'-0"



# Door Louver Profile

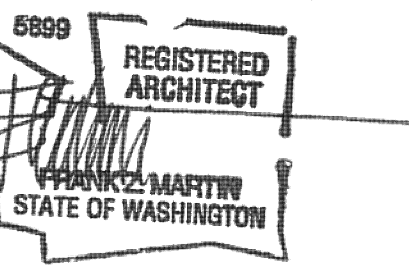
3" = 1'-0"

# Kick Plate

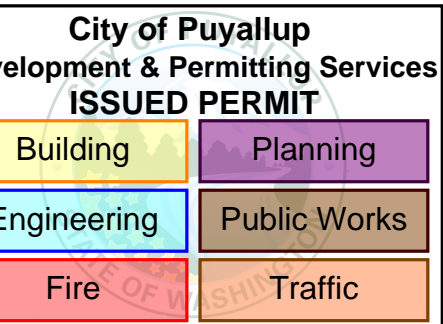
1/2" = 1'-0"

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Do not scale drawings. Use figured dimensions only.



architect seal



Client

Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards

All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.

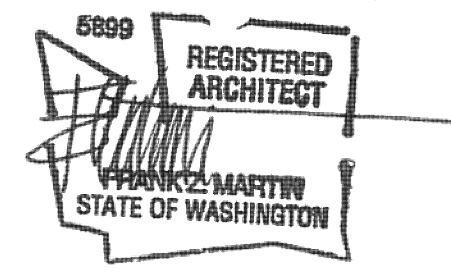


- issue / revision date
- 10-07-22 Staggered Review
- 11-07-22 Preliminary Budget Review
- 11-18-22 DOH Review
- 11-21-22 Building Permit Review
- 12-01-22 Revised Permit
- 12-09-22 Addendum #1
- 01-11-23 Owner Revision
- 02-09-23 City Review Comments
- 02-09-23 DOH Review Comments
- 02-09-23 Elect. Review Comments

drawn by \_\_\_\_\_ checked by \_\_\_\_\_

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373



architect seal

**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
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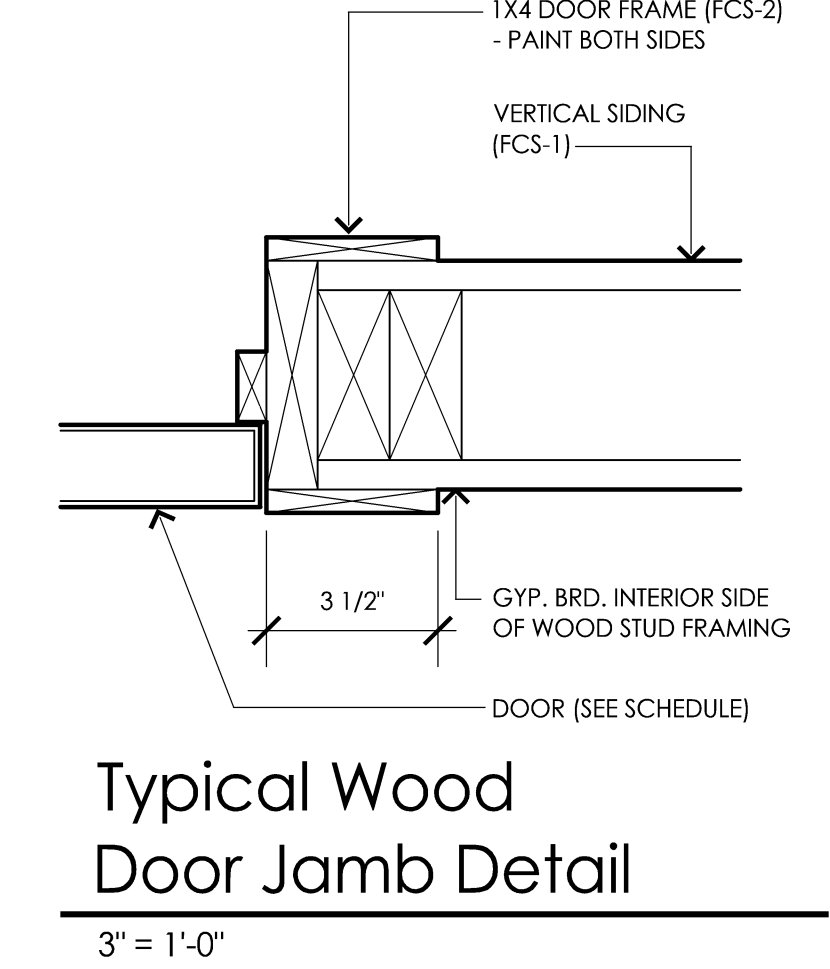
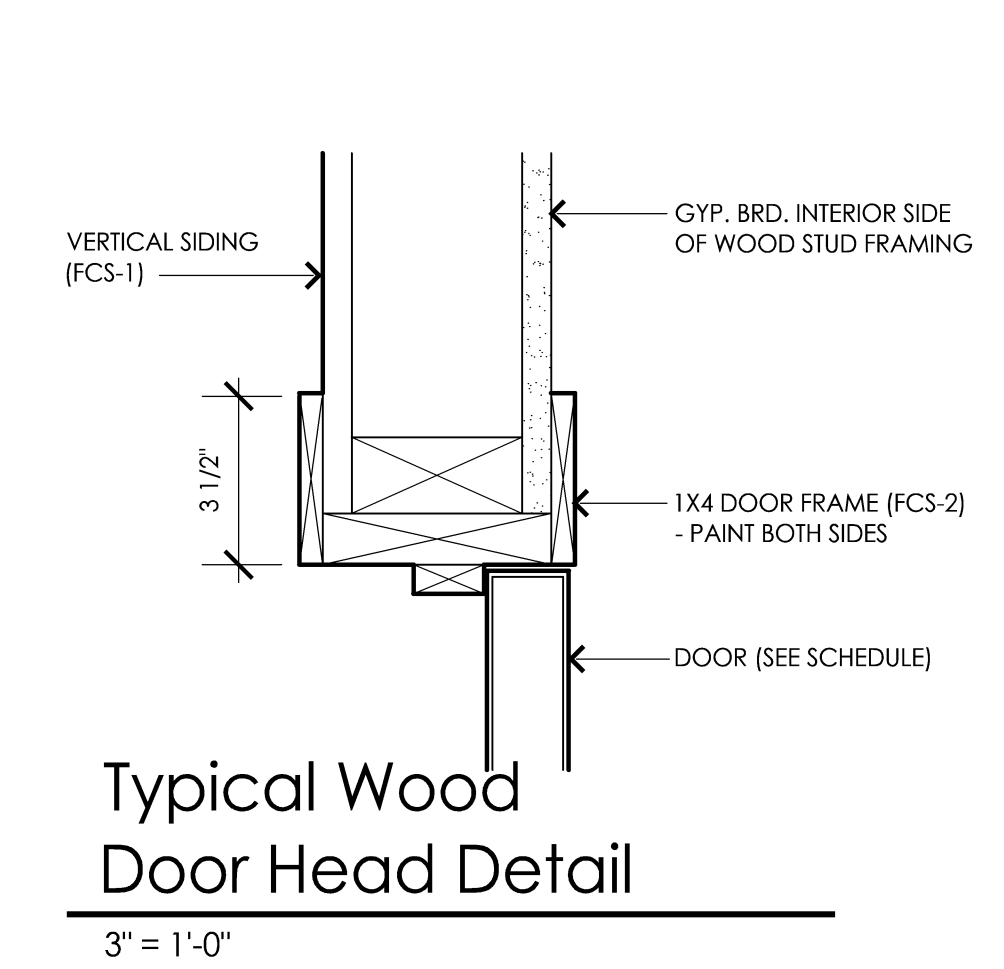
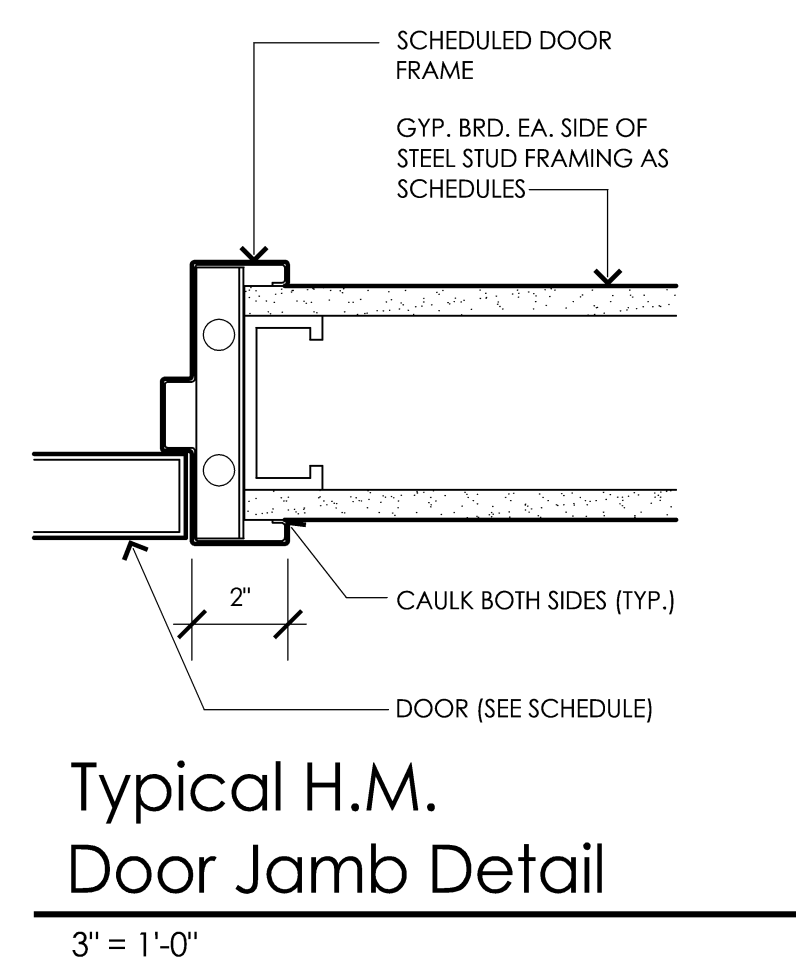
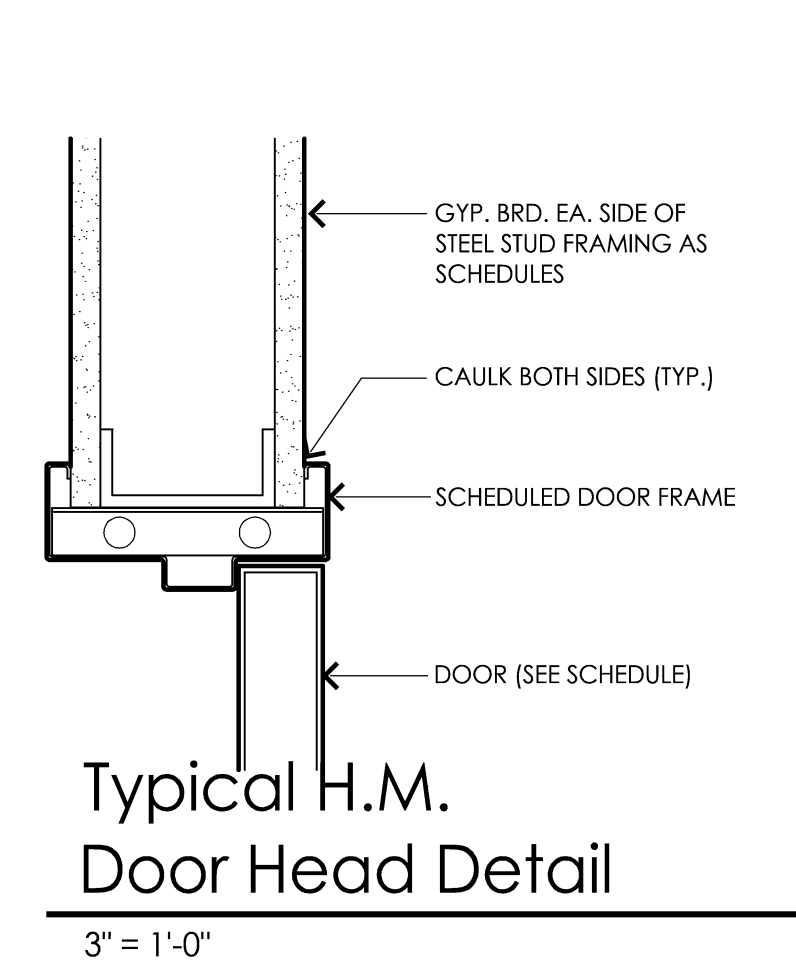
drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
project: \_\_\_\_\_ sheet title: \_\_\_\_\_

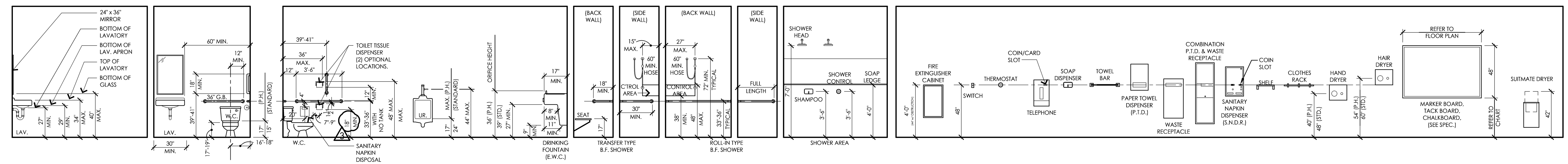


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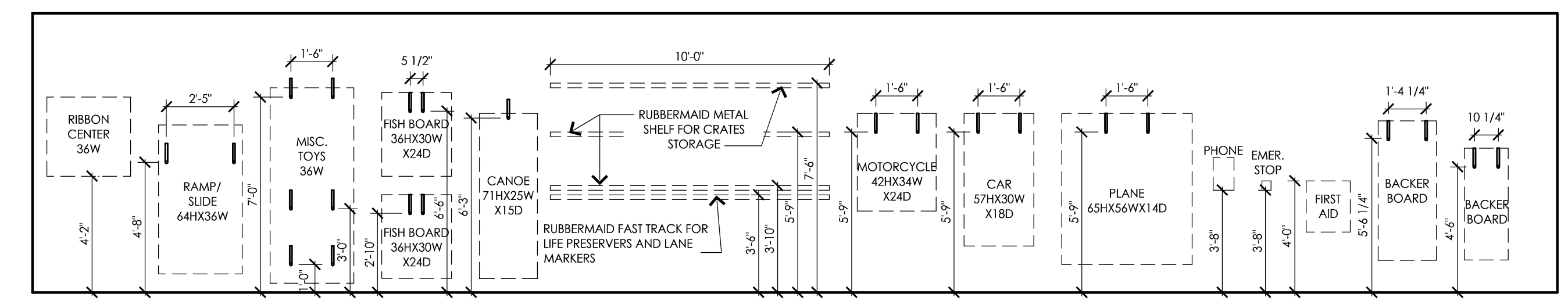
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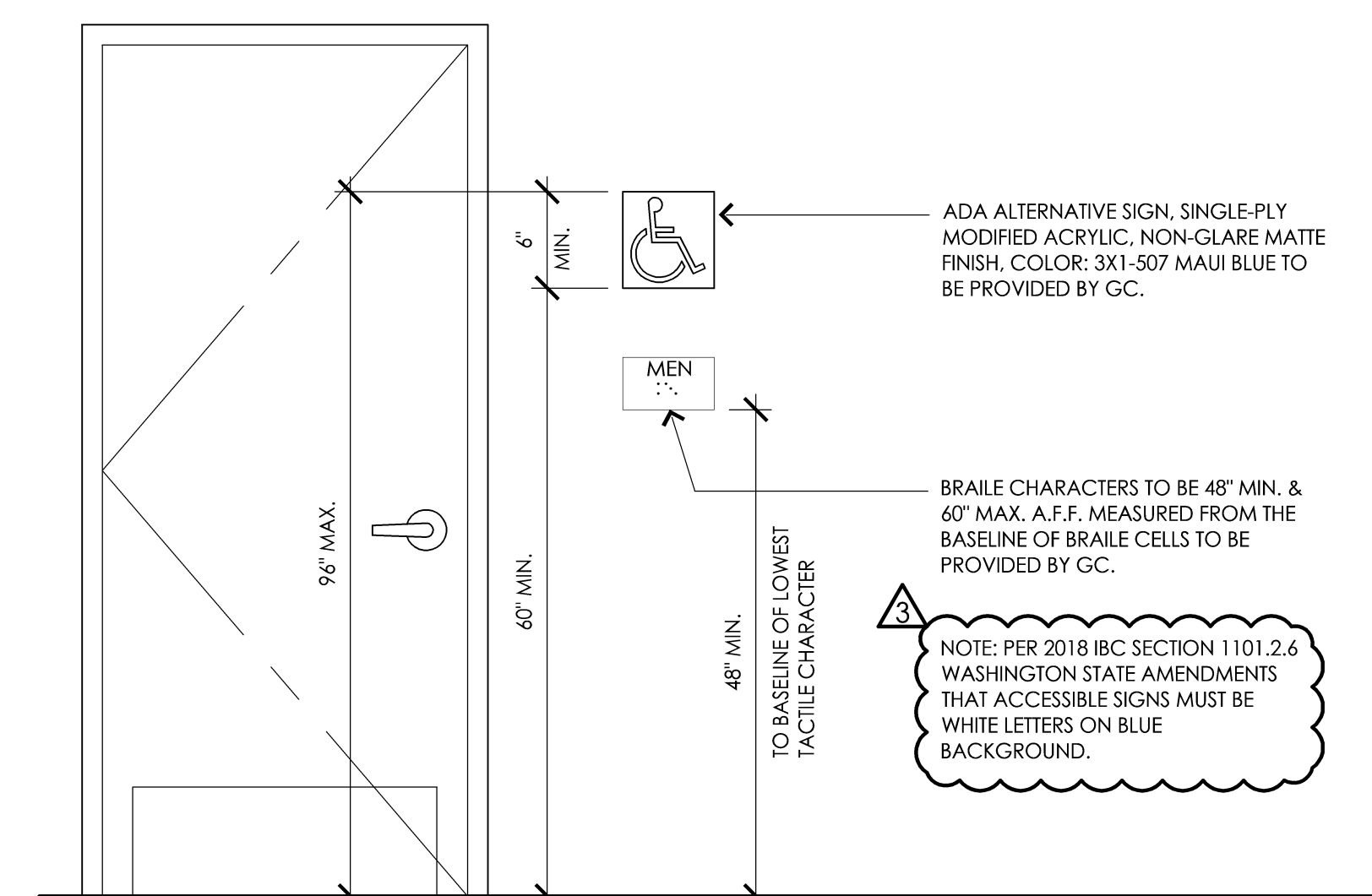
**NOTE:**  
FIXTURES DEPICTED WITHIN THIS SCHEDULE ARE  
SCHEMATIC ONLY. FOR EXACT FIXTURE TYPES AND  
QUANTITIES, REFER TO MECHANICAL DRAWINGS.



Typical Mounting Heights  
1/4" = 1'-0"

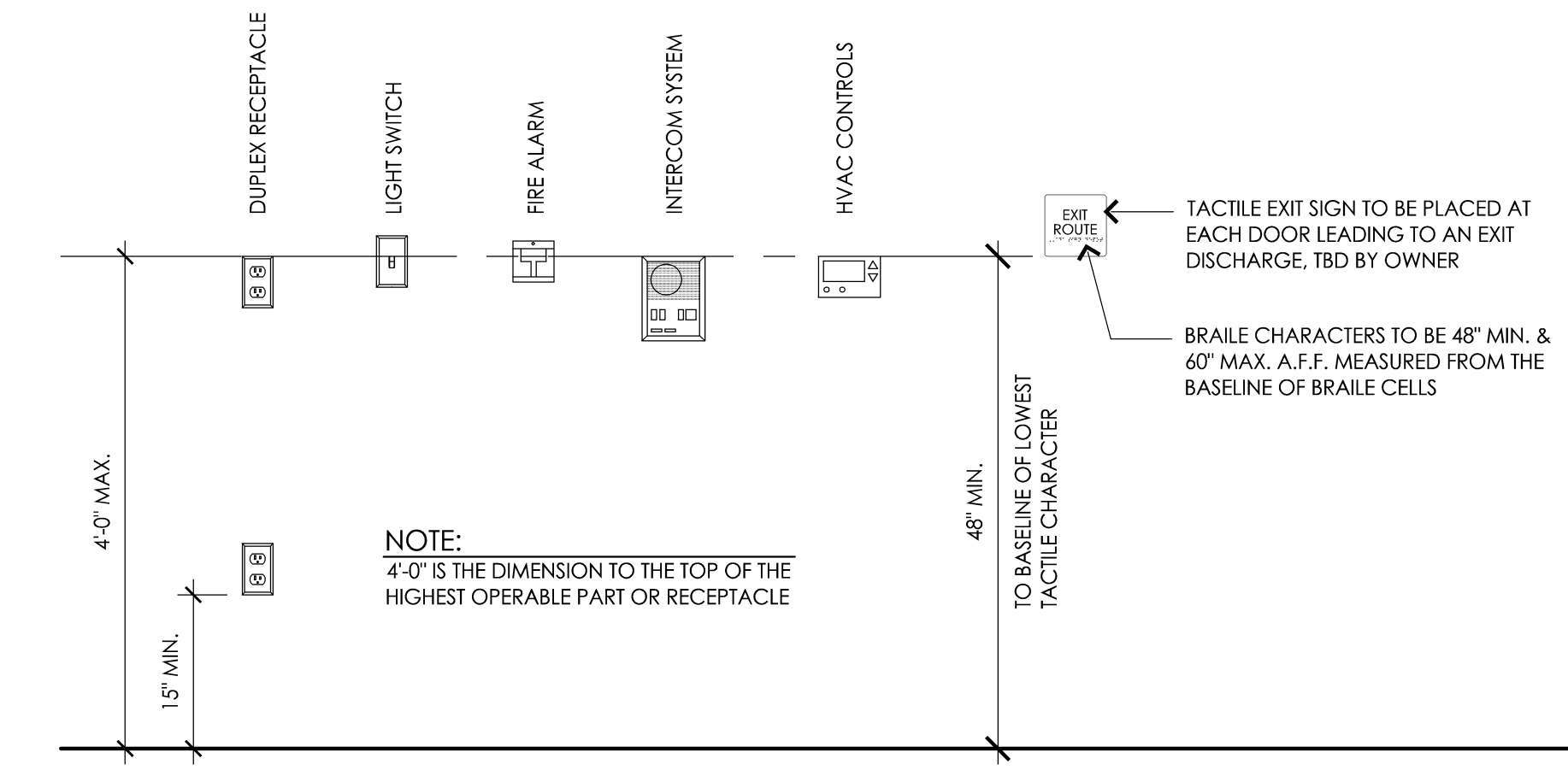


Typ. Mounting Heights cont.  
1/4" = 1'-0"



**NOTE:**  
SIGNAGE DESIGNATED "MEN", "WOMEN", OR ANY OTHER TOILET ROOM IDENTIFICATION IS REQUIRED TO BE  
TACTILE, EITHER RAISED OR ENGRAVED. ROOM IDENTIFICATION SIGNAGE IS REQUIRED TO BE MOUNTED ON THE  
WALL ADJACENT TO THE DOOR, AND NOT ON THE DOOR ITSELF. TYPICAL ADA SIGNS COLOR TO BE "NEON BLUE".

Typ. Signage Detail  
3/4" = 1'-0"



Typ. Mounting Heights cont.  
3/4" = 1'-0"

PRCTI20221793

### Interior Materials / Finish Legend

DESIGNATION	DESCRIPTION	MANUFACTURER	NO. / STYLE	COLOR	
CEILING	C-1	2x2 ACOUSTIC CEILING TILES (NOT USED)		WHITE	
	C-2	FINISHED GYPSUM BOARD CEILING ON 2 x 4 FRT [CLEAR] WOOD RAFTERS.		P-1	
	C-3	EXPOSED EXISTING STRUCTURE AND UNDERSIDE OF EXISTING ROOF DECK		P-1	
	C-4	2x2 CLEAN ROOM LAY-IN GYPSUM CEILING PANELS	USG	VINYL COATED DRYWALL	WHITE
WALL BASE	B-1	4/4 BOARDS 'ROUGHSAWN' - WOOD COMPOSITE TRIM BOARD, 3/4" THICKNESS x 12 - PAINT	JAMES HARDIE	HARDIE TRIM	PAINTED PER ELEVATIONS
	B-2	4" RUBBER BASE	ROPPE	700 #HC40C72P110-027	BROWN (110)
	B-3	F.R.P. 96" A.F.F. WAINSCOT - INSTALL PER MANUF. SPECS. INSTALL OVER 5/8" PLYWD. SHEATHINGS - PROVIDE WALL BASE (B-2)	MARLITE		S100 G WHITE
	B-4	4" RUBBER BASE	ROPPE	700 #HC40C72P110-027	BROWN (110)
	B-5	6" SANITARY COVE BASE	DALTILE	S-3619T / GROUP 1, 4	ELECTRIC BLUE Q194 [4]
FLOORS	FC-1 (DRYSIDE)	POUR ALL NEW CONCRETE - 4" THICK WITH 6&6 MESH AND VISQUEEN VAPOR BARRIER	ELITE CRETE - HERMITIC QUARTZ EPOXY OVERLAY	ELITE CRETE - HERMITIC QUARTZ EPOXY OVERLAY	
	FC-2 (WETSIDE)	POUR ALL NEW CONCRETE - 4" THICK WITH 6&6 MESH AND VISQUEEN VAPOR BARRIER - COVER - CAULK ALL SAW CUTS - CLEAN FLOOR AND APPLY [2] COATS OF SEALER EACH TIME TO FULL REJECTION NOTE: DO NOT GET ANY CEILING PAINT ON THESE SLABS AS IT WILL NOT COME OFF.	SEE SPECIFICATIONS IN BID DOCUMENTS	SEALED CONCRETE WITH SLIP RESISTANT BRUSHED FINISH SEALED COAT CLEAR FINISH	SEE SEPARATE SEALER SPEC
	FC-3	NOT USED			
	FC-4	NOT USED			
GLASS	G-1	3/8" TEMPERED CLEAR GLASS W/ POLISHED EDGES	PIKINGTON OR EQUAL		T.B.D.
	G-2	1/4" TEMPERED STOREFRONT GLASS SYSTEM	PIKINGTON OR EQUAL		T.B.D.
WALL TILE	WC-1	NOT USED			
	WC-2	6" x 6" (BRICKWORK SQUARE PATTERN) ALL ENDS FINISHED WITH BRUSH S.S. - SCHLUTER	DALTILE	SEMI-GLOSS/ GLAZED CERAMIC	ELECTRIC BLUE Q194 [4]
PAINT	P-1	FINISH LATEX PAINT W/ FIRST COAT INTERIOR LATEX PRIMER - 0 VOC EGGSHELL	SHERWIN WILLIAMS	SW7005	G.F. WHITE (PURE WHITE)
	P-2	[2] COATS FINISH LATEX PAINT & [1] COAT INTERIOR LATEX PRIMER - 0 VOC EGGSHELL	SHERWIN WILLIAMS	SW6592	G.F. PINK (GREENADINE)
	P-3	[2] COATS FINISH LATEX PAINT & [1] COAT INTERIOR LATEX PRIMER - 0 VOC EGGSHELL	SHERWIN WILLIAMS	SW6901	G.F. YELLOW (DAFOODI)
	P-4	[2] COATS FINISH LATEX PAINT & [1] COAT INTERIOR LATEX PRIMER - 0 VOC EGGSHELL	SHERWIN WILLIAMS	SW6917	G.F. GREEN (NERVY HUE)
	P-5	[2] COATS FINISH LATEX PAINT & [1] COAT INTERIOR LATEX PRIMER - 0 VOC EGGSHELL	SHERWIN WILLIAMS	SW6894	G.F. MEDIUM DARK ORANGE (FORCEFUL ORANGE)
	P-6	[2] COATS FINISH LATEX PAINT & [1] COAT INTERIOR LATEX PRIMER - 0 VOC EGGSHELL	SHERWIN WILLIAMS	SW6898	G.F. MEDIUM ORANGE (SOCIAL BUTTERFLY)
	P-7	[2] COATS FINISH LATEX PAINT & [1] COAT INTERIOR LATEX PRIMER - 0 VOC EGGSHELL	SHERWIN WILLIAMS	SW6789	G.F. DARK BLUE (BLUE MOSQUE)
	P-8	[2] COATS FINISH LATEX PAINT & [1] COAT INTERIOR LATEX PRIMER - 0 VOC EGGSHELL	SHERWIN WILLIAMS	SW6954	G.F. MEDIUM BLUE (RESONANT BLUE)
	P-9	[2] COATS FINISH LATEX PAINT & [1] COAT INTERIOR LATEX PRIMER - 0 VOC EGGSHELL	SHERWIN WILLIAMS	SW6799	G.F. LIGHT BLUE [SOAR]
	P-10	[2] COATS FINISH LATEX PAINT & [1] COAT INTERIOR LATEX PRIMER - 0 VOC EGGSHELL	SHERWIN WILLIAMS	SW6062	G.F. BROWN (RUGGED BROWN)
	P-11	[2] COATS FINISH LATEX PAINT & [1] COAT INTERIOR LATEX PRIMER - 0 VOC EGGSHELL	SHERWIN WILLIAMS	SW6621	G.F. DARK ORANGE (EMOTIONAL)
GROUT	GR-1	GLASS TILE GROUT - CEMENT POWER GROUT 910 - 855103PM	H.B. FULLER POWER GROUT	LUMINESCENT	BRIGHT WHITE 910
	GR-2	FLOOR TILE GROUT	DALTILE	CUSTOM-GROUT/MATCH TILE COLOR/OWNER TO SELECT ON SITE	#172 URBAN PUTTY
FIBER CEMENT SIDING	FCS-1	FIBER CEMENT COMPOSITE VERTICAL PANELS W/ REVEAL 8" O.C. - PAINT	JAMES HARDIE [PANEL LENGTH 10'-0"]	SEIRRA 8	PAINTED PER ELEVATIONS
	FCS-2	4/4 BOARDS RUSTIC - WOOD COMPOSITE TRIM BOARD, 3/4" THICKNESS - PAINT	JAMES HARDIE	HARDIE TRIM	PAINTED PER ELEVATIONS
RETAIL SLAT WALL	RS-1	CUT 3" O.C. WITH WHITE PLASTIC INSERTS - NO ALUMINUM EDGES OR INSERTS SLATWALL HANGING HARDWARE: ULINE (WWW.ULINE.COM) (20) 1/2" 6-RALL WATERFALLS (WHITE-MODEL S-18611W). VERIFY FINISH WITH OWNER (20) 1/2" x 1/4" HOOKS (WHITE - MODEL S-18614W). VERIFY FINISH WITH OWNER (5) 1/2" x 1/2" x 4" WHITE WIRE BASKETS (MODEL S-18618W). VERIFY SIZE WITH OWNER	MARLITE	2000	GOSHEN WHITE 750
SOLID SURFACES	SS-1	RETAIL SLAT WALL SILL - CORIAN 1" THICK x 19" DEEP WITH 1" NOSING. VERIFY ALL DIMENSIONS IN FIELD.	DUPONT	CORIAN	SAVANAH
	SS-2	STAFF ROOM COUNTERTOP - PLASTIC LAMINATE	WILSONART	MYSTIQUE MOONLIGHT	MATTE FINISH 4757-60
	SS-3	CORIAN WINDOW SILL - 3/4" THICK WITH 1/4" ROUND OVER EDGE. VERIFY ALL DIMENSIONS IN FIELD.	DUPONT	CORIAN	SAVANAH
	SS-4	CORIAN SOAP LEDGE - 3/4" THICK x 5" DEEP SOLID SURFACE WITH 1/4" ROUND OVER EDGE. VERIFY ALL DIMENSIONS IN FIELD.	DUPONT	CORIAN	SAVANAH
POOL COPING CAULK	PCC-1	VULKEM 45 HIGH PERFORMANCE SELF-LEVELING, POLYURETHANE SEALANT	VULKEM	VULKEM 45 HIGH PERFORMANCE SELF-LEVELING, POLYURETHANE SEALANT	
COLUMN PADDING		RESILITE SAFETY PADS - FIX TO COLUMN / VELCRO ATTACHMENT	RESILITE	48" HIGH	BLUE

### Interior Materials Notes:

- 9.03 SEALANTS INSTALL EXTERIOR CAULKING BETWEEN ALL CRACKS, OPENINGS, HOLES, JOINTS, AND BETWEEN ALL DISSIMILAR MATERIALS, ETC. TO PREVENT THE INFILTRATION OF AIR, MOISTURE, AND WATER TO THE BUILDING INTERIOR. DO NOT CAULK VINYL JAMB LINES TO WINDOW FRAME. CAULK ALL NEW INTERIOR TRIM AND INTERIOR CRACKS AND PUTTY ALL NAIL HOLES. AT ALL LOCATIONS WHERE THE MATERIAL TO BE PAINTED ABSORBS DRYWALL, CERAMIC TILE, PRE-FINISH CABINETS, DOOR CASINGS AND BASE. THE JOINTS SHALL BE CAULKED. FOR EXTERIOR APPLICATIONS, PROVIDE VULKEM 116 POLYURETHANE SEALANT. FOR INTERIOR APPLICATIONS, PROVIDE POLYSEAMSEAL ACRYLIC.
- FINISHED FLOOR - EXTREME CARE MUST BE TAKEN. DO NOT GET ANY CEILING PAINT ON SLABS AS IT WILL NOT COME OFF DRAPE ALL LISTS PROTECT FLOORS WITH COMBINATION OF PLASTER AND MASONITE (OR THERMOPLY OR PLYWOOD) ENSURE CLEANED PRIOR TO SEALING.
- PATCH AND REPAIR ALL AREAS OF DAMAGED CONCRETE FLOOR SLAB. PROPERLY FILL ALL DAMAGED FLOORS WITH CEMENTITIOUS PRODUCT PER FLOORING FINISH MANUFACTURER'S RECOMMENDATIONS.
- CAULK ALL EXPANSION JOINTS WITH COLOR-MATCH POLYURETHANE SEALER
- SEE BID SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING SPRAY APPLIED FIRE PROOFING AND COATINGS
- ALL WORK WILL BE COMPLETED TO OUR GOLDFISH TEAM STANDARDS
1. ALL OF OUR ACTIONS AND DECISIONS ARE MADE IN ACCORDANCE TO THE GSS CORE VALUES!
  2. ALL WORK WILL BE PERFORMED ACCORDING WITH GSS POLICIES AND STANDARDS AS DOCUMENTED, AS WELL AS IN THE SPIRIT OF THE COMPANY'S STRATEGIC OBJECTIVE AND CORE VALUES.
  3. ALL WORK WILL BE PERFORMED ACCORDANCE WITH ALL GOVERNMENT LAWS, REGULATIONS ORDINANCES AND COURT RULINGS IN THOSE JURISDICTIONS IN WHICH THE SCHOOL OPERATES.
  4. ALL WORK, DESIGN AND DOCUMENTS COMPLETED FOR THE SCHOOL IS PROPRIETARY TO GSS.
  5. ALL PROPRIETARY GSS INFORMATION WILL BE HELD AS STRICTLY CONFIDENTIAL OUTSIDE GSS.
  6. ALL CALLS OR EMAILS, BOTH INTERNAL AND EXTERNAL, WILL BE RETURNED WITHIN ONE BUSINESS DAY, AND WITHIN TWO HOURS WHENEVER POSSIBLE.
  7. FRANCHISE WILL BE NOTIFIED OF ANY ISSUES THAT CANNOT BE RESOLVED OR DEADLINES THAT CANNOT BE MET BY WITHIN A REASONABLE TIME FRAME IN A WRITTEN REPORT PRIOR TO THE DATE DUE.
  8. ALL DECISIONS WILL BE MADE IN GSS'S BEST INTEREST
  9. EXPECT ONLY HONEST AND MORAL CONDUCT FROM ALL PARTIES INVOLVED IN THE SCHOOL DEVELOPMENT PROCESS.
  10. CREATE A POSITIVE, PRO-ACTIVE APPROACH WITHIN PROJECT, MAKING CLIENT SATISFACTION THE DRIVING FORCE BEHIND ALL OPERATIONS SYSTEMS, POLICIES, ACTIVITIES AND DECISIONS.

### Room Finish Schedule

ROOM NO.	ROOM NAME	FLOOR	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING / HEIGHT	NOTES
100	VESTIBULE	CONC. [FC-1]	WOOD [B-1]	PAINT [P-5,P-6]	PAINT [P-5, P-6]	G-1 PAINT [P-5,P-6]	PAINT [P-5, P-6]	GYP. BD. PAINT [P-1] SEE SHEET AC.100	
101	OFFICE	CONC. [FC-1]	RUBBER [B-2]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	ACOUSTIC CEILING TILES [C-4] SEE SHEET AC.100	
102	STORAGE	CONC. [FC-1]	RUBBER [B-2]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	EXPOSED / VARIES [P-1]	
103	SERVICE AREA	CONC. [FC-1]	(B-1) & (B-2)	PAINT [P-7,8,9]	PAINT [P-7,8,9]	PAINT [P-7,8,9]	PAINT [P-7,8,9]	EXPOSED / VARIES [P-1]	B
104	MEN'S B.F. TOILET	CONC. [FC-1]	RUBBER [B-2](B-5)	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	ACOUSTIC CEILING TILES [C-4] SEE SHEET AC.100	
105	RETAIL	CONC. [FC-1]	WOOD [B-1]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	EXPOSED / VARIES [P-1]	B
106	CHANGING AREA	CONC. [FC-1]	(B-1) & (B-2)	PAINT [P-7,8,9]	PAINT [P-7,8,9]	PAINT [P-7,8,9]	PAINT [P-7,8,9]	EXPOSED / VARIES [P-1]	C
106.8-106.12	CHANGING AREA SHOWERS	CONC. [FC-2]	(B-5)	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	GYP. BD. PAINT [P-1] SEE SHEET AC.100	B, C
106-106.7	CHANGING AREA HUTS	CONC. [FC-1]	RUBBER [B-2]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	GYP. BD. PAINT [P-1] SEE SHEET AC.100	B, C
107	VIEWING AREA	CONC. [FC-1]	(B-1) & (B-2)	PAINT [P-7,8,9]	PAINT [P-7,8,9]	PAINT [P-7,8,9]	PAINT [P-7,8,9]	EXPOSED / VARIES [P-1]	B
108	HAIR DRY	CONC. [FC-1]	RUBBER [B-2]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	EXPOSED / VARIES [P-1]	B
109	WOMEN'S B.F. TOILET	CONC. [FC-1]	RUBBER [B-2](B-5)	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	GYP. BD. PAINT [P-1] SEE SHEET AC.100	B, E
110	GENDER NEUTRAL B.F. TOILET	CONC. [FC-1]	RUBBER [B-2](B-5)	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	GYP. BD. PAINT [P-1] SEE SHEET AC.100	B, E
111	GENDER NEUTRAL B.F. TOILET	CONC. [FC-1]	RUBBER [B-2](B-5)	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	GYP. BD. PAINT [P-1] SEE SHEET AC.100	B, E
112	ELECTRICAL	CONC. [FC-1]	RUBBER [B-2]	PAINT [P-1]	PAINT [P-1]	PAINT [P-1]	PAINT [P-1]	PAINT [P-1] SEE SHEET AC.100	G
113	POOL	CONC. [FC-2]	RUBBER [B-2]	PAINT [P-7,8,9]	PAINT [P-7,8,9]	PAINT [P-7,8,9]	PAINT [P-7,8,9]	EXPOSED / VARIES [P-1]	B, D
114	GENDER NEUTRAL B.F. TOILET	CONC. [FC-2]	RUBBER [B-2](B-5)	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	GYP. BD. PAINT [P-1] SEE SHEET AC.100	B, E
115	STAFF AREA	CONC. [FC-1]	RUBBER [B-2]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	ACOUSTIC CEILING TILES [C-4] SEE SHEET AC.100	
116	SHOWER AREA	CONC. [FC-2]	(B-5)	PAINT [P-7,8,9]	PAINT [P-7,8,9]	PAINT [P-7,8,9]	PAINT [P-7,8,9]	EXPOSED / VARIES [P-1]	B, D, E
117	WEI STORAGE	CONC. [FC-2]	RUBBER [B-2]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	EXPOSED / VARIES [P-1]	B, D
118	STORAGE	CONC. [FC-1]	RUBBER [B-2]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	PAINT [P-9]	EXPOSED / VARIES [P-1]	
119	PUMP ROOM	CONC. [FC-2]	F.R.P. [B-3]	PAINT [P-1]	PAINT [P-1]	PAINT [P-1]	PAINT [P-1]	EXPOSED / VARIES [P-1]	F, G

### Sherwin-Williams Standard Paint Specifications

SURFACE *	PRIMER	PAINT COATS 1 AND 2	FINISH	PRIMER SPEC SHEET	PAINT SPEC SHEET	NOTES	
WET AREA	CEILING / METAL	PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER <b>B46-310</b>	PRO INDUSTRIAL WATER BASED CATALYZED EPOXY <b>873-300</b>	GLOSS	SW 1	SW 2	A
	GYPSUM	PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER <b>B28W2600</b>	PROMAR 200 INTERIOR LATEX <b>831-2600</b>	SEMI-GLOSS	SW 3	SW 7	A
	CMU	KEM CATI-COAT HS EPOXY FILL / SEALER <b>B42W400 / B42V401</b>	MACROPOXY 646-100 FAST CURE EPOXY <b>858-620 / 858V620</b>	SEMI-GLOSS	SW 5	SW 6	A
	DOORS AND FRAMES	PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER <b>B46-310</b>	PRO INDUSTRIAL ACRYLIC SEMI-GLOSS <b>B46-450</b>	SEMI-GLOSS	SW 1	SW 9	A
	HARDIE SIDING / TRIM	PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER <b>B28W2600</b>	PROMAR 200 INTERIOR LATEX <b>831-2600</b>	EGG SHELL	SW 3	SW 7	A
DRY AREA	CEILING / METAL	PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER <b>B46-310</b>	PRO INDUSTRIAL WATERBORNE ACRYLIC DRYFALL <b>B42-80</b>	SEMI-GLOSS	SW 1	SW 11	A
	GYPSUM	PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER <b>B28W2600</b>	PROMAR 200 INTERIOR LATEX <b>820-2600</b>	EGG SHELL	SW 3	SW 7	A
	CMU	PREP RITE BLOCK FILLER <b>B25W25</b>	MAR 200 ZERO VOC INTERIOR LATEX <b>820-2600</b>	SEMI-GLOSS	SW 8	SW 7	A
	METAL DOORS AND FRAMES	PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER <b>B46-310</b>	PRO INDUSTRIAL ACRYLIC SEMI-GLOSS <b>B46-450</b>	SEMI-GLOSS	SW 1	SW 9	A
	WOOD DOORS AND FRAMES	PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER <b>B28W2599</b>	PRO INDUSTRIAL ACRYLIC SEMI-GLOSS <b>B46-450</b>	SEMI-GLOSS	SW 3	SW 9	A
HARDIE SIDING / TRIM	PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER <b>B28W2600</b>	PROMAR 200 INTERIOR LATEX <b>820-2600</b>	EGG SHELL	SW 3	SW 7	A	

NOTES: A - ALL SURFACES MUST BE PREPARED FOLLOWING THE GUIDELINES SET FORTH WITHIN THE ATTACHED SHERWIN-WILLIAMS 'SURFACE PREPARATION GUIDE'. - PLEASE NOTE THIS IS ONLY A 'QUICK REFERENCE' FOR THE MOST COMMON SURFACES USED WITH-IN GOLDFISH SWIM SCHOOLS. PLEASE SEE ATTACHED DOCUMENTS FOR A COMPLETE LIST OF ALL SURFACES AND SPECIFICATIONS.

### Main Contact for Paint:

General Questions, Pricing and Help:  
CJ Handwerk  
National Account Executive  
Cell Phone [216] 390-1857  
Clifton.J.Handwerk@sherwin.com

### Toilet Accessories Schedule

DESCRIPTION	MANUFACTURER	BY OWNER	QUANTITIES IN ROOM NUMBER					ACCESSORY BLOCKING	BLOCKING ATTACHMENT	LOCATION (HEIGHT)
			104	109	110	111	114			
[1] TOILET PAPER DISPENSER [SURFACE MTD.]	BOBRICK (W/ THEFT RESISTENT)	BY OWNER						2 x 4 STUDS SET VERTICAL, RUNNING HORIZONTALLY BETWEEN STUDS	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	17" TO CENTERLINE OF BLOCKING
[2] PAPER TOWEL DISPENSER W/ ELECTRIC EYE [SURFACE MTD.]	BOBRICK OR APPROVED EQUAL	BY OWNER						2 x 4 STUDS SET VERTICAL, RUNNING HORIZONTALLY BETWEEN STUDS	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	REFER TO SHEET A.601 FOR HEIGHTS
[3] SOAP DISPENSER, RECESSED WALL MOUNT	BOBRICK # B-2111	BY OWNER						N/A	N/A	N/A
[4] WASTE RECEPTACLE [SURFACE MOUNTED]		BY OWNER								
GRAB BARS - BRUSHED STAINLESS STEEL	GLACIER BAY									
[5] SIDE BARS	#20135-03202-42		1	1	1	1	1	2 x 6 STUDS SET VERTICAL, RUNNING HORIZONTALLY BETWEEN STUDS	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	34" TO CENTERLINE OF BLOCKING
[6] BACK BAR	#20135-03202-36		1	1	1	1	1	2 x 6 STUDS SET VERTICAL, RUNNING HORIZONTALLY BETWEEN STUDS	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	34" TO CENTERLINE OF BLOCKING
[7] VERTICAL BAR	#20135-03202-18		1	1	1	1	1	2 x 6 STUDS SET VERTICAL, RUNNING HORIZONTALLY BETWEEN STUDS	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	40" TO CENTERLINE OF UPPER BLOCKING, 18" TO LOWER BLOCKING
[8] SIDE ROLL-IN SHOWER BAR	#20135-03202-24							1 MOUNTED @ ROLL IN SHOWER SIDE WALL IN SHOWER AREA, (1) TOTAL	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	34" TO CENTERLINE OF BLOCKING
[9] BACK ROLL-IN SHOWER BAR	#20135-03202-36							(1) ON THE BACK WALL @ ROLL IN SHOWER IN SHOWER AREA, (1) TOTAL	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	34" TO CENTERLINE OF BLOCKING
[10] SURFACE MOUNTED MIRROR, 24"X36"	BOBRICK #B-2932436		1	1	1	1	1	2 x 6 STUDS SET VERTICAL (2 LOCATIONS), RUNNING HORIZONTALLY BETWEEN STUDS	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	42" TO CENTERLINE OF LOWER BLOCKING, 78" TO UPPER BLOCKING
[11] WALL MOUNTED CLOTHES HOOKS	B46114G-W-C5 [WHITE] BY LIBERTY HARDWARE		3	3	3	3	3	2 x 4 STUDS SET VERTICAL, RUNNING HORIZONTALLY BETWEEN STUDS	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	36" TO CENTERLINE OF BLOCKING
[12] BABY CHANGING STATION [SURFACE MTD.]	KOALA KARE KB200-05 [WHITE GRANITE]		1	1	1	1	1	2 x 6 STUDS SET VERTICAL (2 LOCATIONS), RUNNING HORIZONTALLY BETWEEN STUDS	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	REFER TO INTERIOR ELEVATIONS FOR EXACT BLOCKING HEIGHTS
[13] WALL MOUNTED ADA SHOWER SEAT	G85 #62-PH2401WLEG							(1) IN EACH SHOWER ROOM AS SHOWN ON PLAN, (1) TOTAL	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	14" TO CENTERLINE OF BLOCKING, 110" TO LOWER BLOCKING
[14] THROUGH-GLASS HOOK	C.R. LAURENCE CO., INC. # DRH18N	OPTION - BY G.C.						N/A	N/A	48" TO CENTERLINE OF HOOKS
[15] TOILET PARTITIONS	OPTION - BY G.C.		2					2 x 6 STUDS SET VERTICAL (2 LOCATIONS), RUNNING HORIZONTALLY BETWEEN STUDS	[3] 16G GALVANIZED NAILS @ EACH END THROUGH STUDS	N/A

### Toilet Accessories Notes:

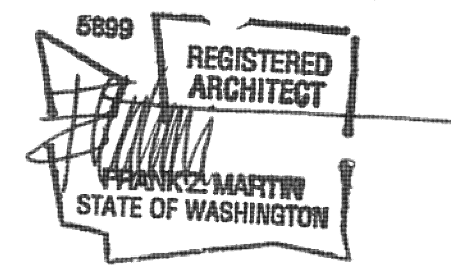
1. TOILET PAPER DISPENSER, PAPER TOWEL DISPENSER AND SOAP DISPENSER SUPPLIED AND INSTALLED BY OWNER
2. REFER TO SHEET A.701 FOR MOUNTING HEIGHTS
3. VERIFY SEALED CONCRETE WITH OWNER. GSS APPROVAL REQUIRED
4. TOILET PARTITION FINISH AND COLOR TBD BY OWNER.

### General Room Finish Notes:

1. SUBMIT FINISH, COLOR, AND MATERIAL SAMPLES TO ARCHITECT PRIOR TO ORDERING, FABRICATING, OR INSTALLING
2. WHERE PAINT IS SPECIFIED, ALL GYPSUM BOARD AND EXPOSED METAL DECKING SURFACES ARE TO RECEIVE (1) COAT PRIMER AND (2) SEPARATE COATS OF PAINT
3. WHERE WALL COVERING IS SPECIFIED, APPLY (1) COAT OF PRIMER AND FURNISH AND INSTALL WALL COVERING
4. ALL INTERIOR FINISHES ARE TO HAVE A FLAME SPREAD OF CLASS C. ALL INTERIOR FINISHES IN EXIT ENCLOSURES (INCLUDING PAINT) TO HAVE A CLASS B RATING
5. ALL VISIBLE WALL MOUNTED COVER PLATES AND ACCESS PANELS ARE TO BE PAINTED TO MATCH ADJACENT WALL FINISH U.N.O.
6. WHERE SPECIFIED, FIRE EXTINGUISHER CABINETS, FIRE HOSE VALVE CABINETS, AND MISCELLANEOUS SPECIALTIES ARE TO BE PAINTED TO MATCH ADJACENT SURFACE
7. PAINTING CONTRACTOR SHALL CAULK AS REQUIRED FOR A COMPLETE FINISHED JOB AT ALL DOOR FRAMES AND WINDOWS, GAPS, AND JOINTS, ETC.
8. ALL CONCEALED INSULATING MATERIALS SHALL HAVE A FLAME RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 450 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E-84. EXPOSED FOIL FACED INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPED RATING OF 450 OR LESS
9. ALL THRESHOLDS TO BE A MAXIMUM OF 1/2" HIGH AT INTERIOR AND EXTERIOR DOORWAYS. THRESHOLDS HIGHER THAN 1/4" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2
10. FLOOR TRANSITION STRIPS TO BE SIMILAR OR EQUAL TO AS FOLLOWS:  
A.) TILE / CARPET TRANSITIONS TO HAVE A RENO-TK SLOPED TRANSITION STROOP BY SCHLUTER SYSTEMS
11. ALL INTERIOR COMPONENTS SUPPLIED BY ONE SOURCE RETAIL SHALL COMPLY TO THE APPLICABLE CURRENT CODES / BARRIER FREE CODES PER SHEET 11.00
12. ALL FINISHES SHALL COMPLY WITH IBC TABLE 803.11
13. INSTALL RUBBER BASE AROUND ALL O.S.R. MILLWORK
14. GC AND PA

**Interior Signage Key:**

1. 'FRONT DESK' - (CEILING HUNG)
2. 'TREASURE ISLAND PRO SHOP SIGN' - (SURFACE MOUNTED)
3. 'CHANGING ROOMS' - (CEILING HUNG)
4. 'SNACK SHACK' - (WALL MOUNTED)
5. 'CAPTAINS QUARTERS' - (DOOR MOUNTED)
6. 'FIRST MATE' - (DOOR MOUNTED)
7. 'DECK HANDS' - (DOOR MOUNTED)
8. 'MECHANICAL ROOM' - (DOOR MOUNTED)
9. 'RESTROOM' - (DOOR MOUNTED)
10. 'STAR STUDENTS' - (SURFACE MOUNTED)
11. 'EMPLOYEE OF THE MONTH' - (SURFACE MOUNTED)
12. 'OCCUPANT LOAD' - (SURFACE MOUNTED)
13. 'RESTROOM' - (CEILING HUNG)



architect seal

**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



issue / revision date

10-07-22	Staggered Review
11-07-22	Preliminary Budget Review
11-18-22	DOH Review
11-21-22	Building Permit Review
12-01-22	Revised Permit
12-09-22	Addendum #1
01-11-23	Owner Revision
02-09-23	City Review Comments
02-09-23	DOH Review Comments
02-09-23	Elect. Review Comments

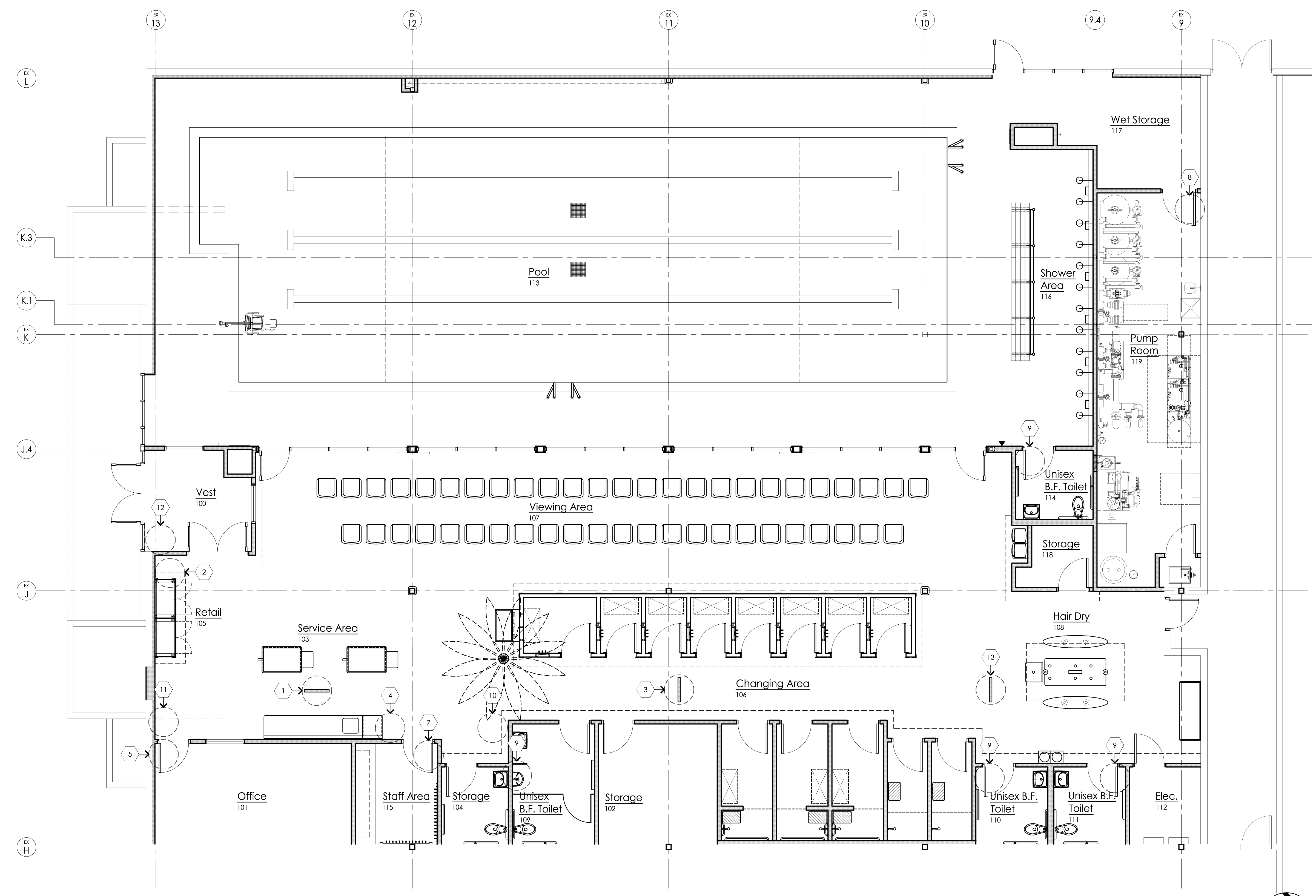
drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

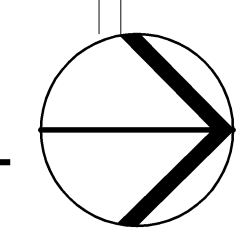
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Dorchen/Martin Associates, Inc.  
Architects/Planners  
23895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
www.dorchenmartin.com

job number 22006 sheet number A.900



**PRCTI20221793**

Floor Plan - Interior Signage  
3/16" = 1'-0"



**PLUMBING SPECIFICATIONS:**

**PLUMBING GENERAL REQUIREMENTS:**

1. PROVIDE MATERIALS AND EQUIPMENT AND EXECUTE THE WORK, INCLUDING ALL TESTING AND INSPECTIONS, IN COMPLIANCE WITH THE APPLICABLE PROVISIONS OF FEDERAL, STATE AND LOCAL GOVERNMENT LAWS, ORDINANCES, REFERENCED CODES AND STANDARDS CURRENT AS OF THE ISSUE DATE OF THESE DRAWINGS. ALL MORE STRINGENT REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL MODIFY, SUPPLEMENT AND SUPERSEDE APPLICABLE PORTIONS OF GOVERNING LAWS, ORDINANCES, CODES AND STANDARDS.
2. CONTRACTOR SHALL PRESENT CERTIFICATE TO THE TENANT AND LANDLORD THAT ALL APPLICABLE BUILDING PERMITS HAVE BEEN SECURED PRIOR TO STARTING ANY WORK AND PROVIDE THE TENANT AND LANDLORD WITH ALL REQUIRED CERTIFICATES OF FINAL APPROVAL FROM THE GOVERNING JURISDICTIONS AT COMPLETION OF THE WORK. PROVIDE ALL SHOP DRAWINGS AS REQUIRED IN FOLLOWING SECTIONS.
3. COORDINATE EXACT LOCATION OF CONSTRUCTION TO PRECLUDE ANY INTERFERENCES BETWEEN PIPING, WIRING, LIGHTING FIXTURES, DUCTWORK, BUILDING EQUIPMENT, PROCESS EQUIPMENT AND OTHER CONSTRUCTION.
4. PROVIDE LABOR, INCLUDING FIELD ERECTION AND SUPERVISION, MATERIALS, EQUIPMENT AND ANCILLARIES, AND COORDINATE, PROCURE, FABRICATE, DELIVER, ERECT OR INSTALL, INTERFACE WITH EXISTING WORK, START, DEBUG AND TEST ALL SYSTEMS AS NECESSARY TO PROVIDE THE OWNER WITH A COMPLETE, OPERATING FACILITY IN CONFORMANCE WITH THE CONSTRUCTION BID DOCUMENTS.
5. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID TO FAMILIARIZE HIMSELF WITH THE ACTUAL PROJECT CONDITIONS AND TO CHECK FOR ANY INTERFERENCES BETWEEN HIS WORK AND THAT OF THE OTHER TRADES, AND/OR ANY APPARENT VIOLATIONS OF LOCAL OR STATE CODES, LAWS, ORDINANCES AND REGULATIONS. SHOULD ANY VIOLATIONS OR INTERFERENCES APPEAR AND DEPARTURE FROM THE DESIGN INTENT OF THE CONTRACT DOCUMENTS IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ENTERING INTO A CONTRACT WITH THE OWNER. FAILURE TO PROVIDE THE ARCHITECT WITH THE AFOREMENTIONED NOTIFICATION SHALL RESULT IN THE CONTRACTOR BEING HELD RESPONSIBLE TO COMPLETE ALL WORK TO MEET THE INTENT OF THE CONTRACT DOCUMENTS WITH NO ADDITIONAL EXPENSES BEING INCURRED BY THE OWNER.
6. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATIONS AND ARRANGEMENTS OF ALL THE EQUIPMENT AND PLUMBING. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT. DO NOT SCALE DRAWINGS FOR EXACT MEASUREMENTS.
7. SHOULD THE CONTRACTOR SUBMIT ANY SHOP DRAWINGS FOR REVIEW THAT VARY FROM WHAT THE CONSTRUCTION BID DOCUMENTS INDICATE, THE CONTRACTOR SHALL PAY THE ENGINEER FOR REVIEWING HIS SUBMISSION.

**GENERAL NOTES: PLUMBING**

8. THE PLUMBING SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL STATE AND LOCAL PLUMBING CODES. THE PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS AND APPROVALS AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK. AT THE COMPLETION OF THE PROJECT, THE PLUMBING CONTRACTOR SHALL FURNISH THE OWNER WITH CERTIFICATES OF FINAL INSPECTIONS AND APPROVALS.
9. PLUMBING SHALL BE AS FOLLOWS:
  - A. SANITARY AND VENT PIPING:
    - 1) ALL SANITARY AND VENT PIPING ABOVE AND BELOW GROUND SHALL BE SCHEDULE 40 SOLID WALL PVC PIPE & CEMENTED FITTINGS WHERE LOCAL CODE PERMITS.
    - 2) ALL SANITARY AND VENT PIPING ABOVE AND BELOW GRADE SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE WITH WITH NO-HUB FITTINGS AND HEAVY DUTY BANDS. WHEREVER PVC IS NOT APPROVED.
  - B. POOL DECK SANITARY PIPING:
    - 1) ALL UNDERGROUND PIPING SHALL BE SCHEDULE 40 SOLID WALL PVC.
  - C. DOMESTIC WATER PIPING:
    - 1) ALL ABOVE GROUND DOMESTIC WATER PIPING SHALL BE INSULATED TYPE "L" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER OR CAST RED BRONZE FITTINGS AS THE BASE BID. PVC, CPVC OR CROSS LINKED POLYETHYLENE PIPING (PEX) MAY BE SUBMITTED AS A DEDUCT ALTERNATE TO BE APPROVED BY THE OWNER. ALL SOLDERED FITTINGS SHALL BE MADE WITH SIL-FOS SOLDER OR AN APPROVED NON-TOXIC SOLDER. MECHANICAL TYPE FITTINGS EQUAL TO "PROPRESS SYSTEMS" ARE APPROVED IN LIEU OF SOLDERED FITTINGS.
    - 2) ALL UNDERGROUND PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER OR CAST RED BRONZE FITTINGS AS THE BASE BID), PIPE FITTINGS ARE NOT ALLOWED BELOW FLOOR SLAB.
  - D. VALVES:
    - 1) BALL VALVES SHALL BE TWO PIECE FULL PORT BRONZE BALL VALVES WITH STAINLESS STEEL TRIM, TFE SEATS WITH 316 STAINLESS STEEL BALL AND STEM. THREADED BODY PACK NUT DESIGN WITH ADJUSTABLE STEM PACKING WITH THREADED OR SOLDERED ENDS. RATED FOR 150 PSIG SWP AND 600 PSIG CWP.
    - 2) CHECK VALVES SHALL BE SWING CHECK WITH BRONZE DISC, CLASS 150, ASTM B62, Y-PATTERN DESIGN WITH THREADED OR SOLDERED ENDS. RATED FOR 300 PSIG CWP.
  - D. PIPING INSULATION:
    - 1) DOMESTIC HOT, COLD & HOT WATER RETURN, HEATING HOT WATER AND POOL HEATING PIPING SHALL BE INSULATED WITH MINIMUM 1" THICK FIBERGLASS INSULATION, WITH A FIRE RETARDANT JACKET, HAVING AN AVERAGE R VALUE OF 3.45. COLD WATER PIPING INSULATION SHALL BE PROVIDED WITH A VAPOR BARRIER. PROVIDE PREFORMED SECTIONS WITH COVERS AT ALL FITTINGS AND FOR ALL PIPING EXPOSED IN THE POOL AREA.
    - 2) PIPE INSULATION SHALL HAVE A FLAME SPREAD AND SMOKE DENSITY RATING NOT EXCEEDING 25/50, AS TESTED PER ASTM STANDARD E-84.
    - 3) ALL DOMESTIC HOT WATER AND HOT WATER RETURN COPPER PIPING MUST BE INSULATED.
    - 4) ABOVE GROUND STORM PIPING (HORIZONTAL PIPING INCLUDING FITTINGS AND ROOF SUMP BODIES) SHALL BE INSULATED WITH A MINIMUM 1" THICK FIBERGLASS INSULATION WITH A VAPOR BARRIER.
10. PIPING SHALL BE SUPPORTED FROM HANGERS OR TRAYS AT AN ADEQUATE DISTANCE WITH SUPPORTING HANGER RODS FASTENED TO THE BUILDING FRAMING. HANGERS FASTENED DIRECTLY TO THE ROOF DECK ARE NOT ALLOWED. PROVIDE UNISTRUIT AS REQUIRED.
11. ISOLATE PIPING AND EQUIPMENT FROM THE BUILDING STRUCTURE WITH INSULATING HANGERS AND FITTINGS AS REQUIRED TO PREVENT GALVANIC CORROSION OF THE BUILDING PIPING SYSTEMS.
12. DOMESTIC WATER HEATERS SHALL BE EQUIPPED WITH A.S.M.E. RATED TEMPERATURE AND PRESSURE RELIEF VALVES PIPED TO FLOOR. ROUTE DRAIN LINE TO NEAREST FLOOR DRAIN.
13. ALL SERVICES SHALL BE PROPERLY SLEEVED WHEN ROUTED THROUGH FLOORS AND WALLS. CONTRACTOR TO PROVIDE FIRE RESISTANT ROPE PACKING FOR ALL PIPES PENETRATING FIRE RATED WALLS. CONTRACTOR SHALL OBTAIN A COPY OF THE ARCHITECTURAL DRAWINGS TO IDENTIFY FIRE RATED WALLS. CONTRACTOR SHALL PROVIDE A WEATHERPROOF SEAL FOR PIPING PENETRATING EXTERIOR WALLS.
14. FURNISH AND INSTALL ISOLATION VALVES AT ALL SERVICE POINTS OR EQUIPMENT CONNECTIONS. PROVIDE VACUUM BREAKERS AND ANTI-SIPHON FITTINGS ON WATER PIPING SYSTEMS BEFORE EQUIPMENT CONNECTIONS, AND AT ALL HOSE END SPIGOTS AND HOSE CONNECTIONS, ETC. INSTALL REDUCED PRESSURE BACKFLOW PREVENTERS ON ALL MAKE-UP WATER LINES TO FOOD SERVICE EQUIPMENT AND ON BUILDING DOMESTIC WATER SERVICE WHERE LOCAL CODE REQUIRES. THE INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH LOCAL CODES AND/OR AUTHORITIES FOR THE PROTECTION OF THE WATER SUPPLY SYSTEM. INSTALL STRAINER UP STREAM OF REDUCED PRESSURE BACKFLOW PREVENTER.
15. IDENTIFICATION:

- A. LABEL ALL PIPING SYSTEMS WITH MANUFACTURED SELF ADHESIVE OR PRE-TENSIONED PIPE MARKERS. MARKERS SHALL INDICATE SERVICE AND DIRECTION OF FLOW. MARK PIPE NEAR VALVES, BRANCH CONNECTIONS, PENETRATIONS, ACCESS DOORS AND NEAR MAJOR PIECES OF EQUIPMENT. MARKER SPACING SHALL NOT EXCEED 50'.
10. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PITCH OF PIPE FOR DRAINAGE AND AIR VENTING OF PIPING SYSTEMS AND SHALL PROVIDE DRAINS TO RECEIVE THE PIPING SYSTEMS CONTENTS OF INDIRECT WASTE AND CONDENSATE DRAINAGE FROM ALL MECHANICAL DRAINS.
11. THE PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND PROVIDE ROUGH-INS FOR ALL EQUIPMENT FURNISHED BY OTHER CONTRACTORS. AFTER ALL EQUIPMENT HAS BEEN INSTALLED BY OTHER CONTRACTORS, THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS AND SHALL INCLUDE IN HIS BASE BID ALL VALVES, UNIONS, COUPLINGS, VACUUM BREAKERS, ETC., THAT ARE REQUIRED TO MAKE FINAL CONNECTIONS.
12. THE PLUMBING CONTRACTOR SHALL OBTAIN OTHER TRADES DRAWINGS AND COORDINATE HIS WORK WITH THE TOTAL PROJECT AS IT RELATES TO ALL TRADES AND VISIT THE PROJECT SITE PRIOR TO SUBMITTING HIS BID TO FAMILIARIZE HIMSELF WITH THE ACTUAL PROJECT CONDITIONS AND TO CHECK FOR ANY INTERFERENCES BETWEEN HIS SCOPE OF WORK AND THAT OF THE OTHER TRADES, AND/OR ANY APPARENT VIOLATIONS OF LOCAL OR STATE BUILDING CODES, LAWS, ORDINANCES, AND REGULATIONS. IF ANY INTERFERENCES OR VIOLATIONS APPEAR AND DEPARTURE FROM THE INITIAL DESIGN INTENT OF THE CONSTRUCTION BID DOCUMENTS IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ENTERING INTO A CONTRACT WITH THE OWNER. FAILURE TO PROVIDE THE ARCHITECT WITH THE AFOREMENTIONED NOTIFICATION SHALL RESULT IN THE CONTRACTOR BEING HELD RESPONSIBLE TO COMPLETE ALL WORK TO MEET THE INTENT OF THE CONSTRUCTION BID DOCUMENTS WITH NO ADDITIONAL COSTS BEING INCURRED BY THE OWNER.
13. FURNISH AND INSTALL AN INDIVIDUAL COMBINATION PRESSURE BALANCING AND THERMOSTATIC CONTROL VALVE THAT CONFORMS TO A.S.S.E. # 1070 WITH TEMPERED WATER PIPING CONNECTIONS FOR ALL ACCESSIBLE PLUMBING FIXTURES. SET VALVE FOR A MAXIMUM OF 110°F.
14. THE CONTRACTOR SHALL SUBMIT EQUIPMENT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION OF ANY OF THE FOLLOWING EQUIPMENT:
  - A. PLUMBING FIXTURES
  - B. PLUMBING PIPE, FITTINGS AND HANGERS
  - C. DOMESTIC WATER HEATER
  - D. FLOOR DRAINS, TRENCH DRAINS, CLEANOUTS, ETC.
15. THE CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED UNDER THIS CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF THE BUILDING BY THE OWNER, AND SHOULD DEFECTS OCCUR WITHIN THIS PERIOD, REPAIR AND/OR REPLACE DEFECTIVE ITEMS AND ANY DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE TO THE OWNER.
16. PROVIDE PRE-MANUFACTURED SUPPORTS EQUAL TO MIRO INDUSTRIES 3-R, SPACED 10'-0" ON CENTER AND AT ALL FITTINGS OR SUPPORT ON ROOF. FASTEN GAS PIPING SECURELY TO EACH SUPPORT AND PROVIDE SPACERS AS REQUIRED TO ADJUST FOR ROOF SLOPE WITHOUT STRESSING THE PIPING.
17. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF HIS EQUIPMENT AND WORK WITH OTHER BUILDING TRADES TO AVOID ANY INTERFERENCES BETWEEN HIS WORK AND THE WORK OF OTHER TRADES.
18. ANY CUTTING AND/OR PATCHING, THAT MAY BE REQUIRED FOR THE INSTALLATION OF THE PLUMBING AND PIPING SYSTEMS, SHALL BE PERFORMED BY THE ARCHITECTURAL TRADES AND PAID FOR BY THIS CONTRACTOR. NO CUTTING OF THE BUILDING STRUCTURAL SYSTEM SHALL BE PERFORMED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT BEING OBTAINED.
19. WATER HAMMER ARRESTORS SHALL BE INSTALLED ON BOTH COLD AND HOT WATER LINES. INSTALL IN AN UPRIGHT POSITION AT ALL QUICK CLOSING VALVES, SOLENOIDS, AND PLUMBING FIXTURES. MANUFACTURED WATER HAMMER ARRESTORS SHALL BE SMITH NO. 3000 SERIES "HYDROTROLS", JOSAM, ZURN, OR AS APPROVED BY THE ARCHITECT, LOCATED, SIZED, AND INSTALLED IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD NO.WH201.
20. CLEANING OF WATER PIPING
  - A. PORTABLE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO UTILIZATION. ALL NEW DOMESTIC WATER DISTRIBUTION LINES SHALL BE CHLORINATED. AFTER THE PRESSURE TEST, AND BEFORE CHLORINATION, ALL DIRT AND FOREIGN MATTER SHALL BE REMOVED BY A THOROUGH FLUSHING WITH CLEAN POTABLE WATER THROUGH THE LINES, DISCHARGING THE FLOW FROM THE END OF THE LINES UNTIL DIRTY WATER DOES NOT APPEAR AT THE POINTS OF OUTLET.
  - B. THE SYSTEM SHALL BE THOROUGHLY STERILIZED USING THE PROCEDURE REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
21. TESTING OF THE WATER DISTRIBUTION, DRAINAGE AND VENT SYSTEM SHELL COMPLY WITH CURRENT EDITION OF PLUMBING CODE.

**FIRE PROTECTION SYSTEM SPECIFICATIONS:**

1. THE FIRE PROTECTION CONTRACTOR SHALL DESIGN, FURNISH, AND INSTALL A COMPLETE SYSTEM OF AUTOMATIC WET SPRINKLERS IN ALL AREAS OF THE BUILDING. DESIGN SHALL BE BASED UPON DESIGN CRITERIA AND/OR HAZARD ESTABLISHED BY THE OWNER'S INSURANCE UNDERWRITERS, THE LOCAL FIRE MARSHAL, AND/OR OTHER AUTHORITIES HAVING JURISDICTION. THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED IN A MANNER SET FORTH AND APPROVED BY N.F.P.A. IN GENERAL, THE SPRINKLER SYSTEM SHALL BE TESTED AT A WATER PRESSURE OF 200 PSIG FOR A PERIOD OF TWO (2) HOURS AND SHALL HAVE ALL FACILITIES FOR PROPER DRAINAGE AND ANY NECESSARY TEST VALVES, ORIFICES, OR EQUIPMENT REQUIRED BY AUTHORITIES HAVING JURISDICTION.
2. ALL WORK RELATED TO THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH THE OWNER'S FIRE INSURANCE UNDERWRITER'S FIRE RATING INSPECTION BUREAU STANDARDS AND SPECIFICATIONS, THE REQUIREMENTS OF NFPA, THE LOCAL FIRE MARSHAL, AND ALL GOVERNING LOCAL OR STATE CODES, LAWS, ORDINANCES, AND REGULATIONS.
3. THE FIRE PROTECTION CONTRACTOR SHALL OBTAIN OTHER TRADES DRAWINGS AND COORDINATE HIS WORK WITH THE TOTAL PROJECT AS IT RELATES TO ALL TRADES AND VISIT THE JOB SITE BEFORE HE SUBMITS HIS BID TO FAMILIARIZE HIMSELF WITH ACTUAL JOB CONDITIONS AND TO CHECK FOR ANY INTERFERENCES BETWEEN HIS WORK AND THAT OF OTHER TRADES, AND/OR ANY APPARENT VIOLATIONS OF LOCAL OR STATE CODES, LAWS, ORDINANCES, AND REGULATIONS. IF ANY VIOLATIONS OR INTERFERENCES APPEAR AND DEPARTURE FROM THE DESIGN INTENT OF THE CONTRACT DOCUMENTS IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE ENTERING INTO CONTRACT. FAILURE TO PROVIDE THE ARCHITECT WITH THE AFOREMENTIONED NOTIFICATION WILL RESULT IN THE CONTRACTOR BEING HELD RESPONSIBLE TO COMPLETE ALL WORK TO MEET THE INTENT OF THE CONTRACT DRAWINGS WITH NO ADDITIONAL EXPENSES ("EXTRAS") BEING INCURRED BY THE OWNER.
4. BEFORE PROCEEDING WITH ANY INSTALLATION WORK, THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT A SET OF COMPLETE SHOP DRAWINGS, INCLUDING HYDRAULIC CALCULATIONS, TO THE ARCHITECT. SHOP DRAWINGS SHALL BEAR THE WRITTEN APPROVAL OF THE OWNER'S FIRE INSURANCE UNDERWRITER'S FIRE RATING INSPECTION BUREAU, THE LOCAL FIRE MARSHAL, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
5. UPON COMPLETION OF THE SYSTEM, AND ON POSSESSION OF THE PREMISES, THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT A WRITTEN CERTIFICATE TO THE OWNER FROM THE UNDERWRITER STATING THAT THE ENTIRE SYSTEM WAS INSPECTED AND APPROVED.
6. THE FIRE PROTECTION CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED UNDER HIS CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS, FOR A PERIOD OF ONE (1) YEAR AFTER THE ACCEPTANCE OF THE BUILDING BY THE OWNER, AND SHOULD DEFECTS OCCUR WITHIN THIS PERIOD, REPAIR AND/OR REPLACE DEFECTIVE ITEMS AND ANY DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE TO THE OWNER.
7. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE LOCATIONS OF HIS EQUIPMENT AND WORK WITH OTHER BUILDING TRADES TO AVOID ANY INTERFERENCES BETWEEN HIS WORK AND THE WORK OF OTHER TRADES.
8. ANY CUTTING AND PATCHING, THAT MAY BE REQUIRED FOR THE INSTALLATION OF THE FIRE PROTECTION SYSTEM, SHALL BE DONE AND REPAIRED BY THE FIRE PROTECTION CONTRACTOR. NO CUTTING OF THE STRUCTURAL SYSTEM SHALL BE DONE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT BEING PREVIOUSLY OBTAINED.
9. ALL SPRINKLER HEADS INSTALLED WITHIN THE "WET" AREAS SHALL BE CORROSION RESISTANT. TO MOISTURE AND CHLORINE.

**PLUMBING GENERAL NOTES:**

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL NEW PLUMBING FIXTURES.
2. ALL PLUMBING RELATED CORING THROUGH FLOORS SHALL BE BY PLUMBING CONTRACTOR.
3. COORDINATE ALL NEW LOCATIONS, SIZES AND ELEVATIONS OF SLEEVES THROUGH WALLS SLABS AND FOUNDATIONS WITH STRUCTURAL DRAWINGS AND EXISTING FIELD CONDITIONS.
4. COORDINATE ALL PIPE ROUTING WITH SITE CONDITIONS, EQUIPMENT MANUFACTURER RECOMMENDATIONS AND ALL OTHER TRADES TO AVOID INTERFERENCES. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
5. ALL OVERHEAD DOMESTIC WATER PIPING SHALL BE INSULATED AND LABELED IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS.
6. SEAL ALL PENETRATIONS THROUGH WALLS AND FLOORS AIR AND WATERTIGHT. COORDINATE LOCATIONS AND ELEVATIONS OF ALL NEW UNDERGROUND UTILITIES WITH CIVIL SITE PLANS PRIOR TO START OF CONSTRUCTION.
7. CONTRACTOR SHALL MAINTAIN ADEQUATE CLEARANCES (PER N.E.C.) ABOVE AND AROUND ANY NEW ELECTRICAL PANELS, EQUIPMENT AND TRANSFORMERS WHEN ROUTING OVERHEAD DOMESTIC WATER AND STORM PIPING.
8. RUN ALL UNDERGROUND SANITARY PIPING 3" AND LARGER AT 1/8" PER FOOT MINIMUM PITCH UNLESS NOTED OTHERWISE. SANITARY PIPING LESS THAN 3" SHALL BE PITCHED AT 1/4" PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.
9. ALL DRAINAGE AND VENT SYSTEM PER CODE SHALL BE PEPPERMINT TESTED AFTER INSTALLATION.
10. ALL BACKFLOW DEVICES SHALL BE TESTED AND APPROVED BY CROSS CONNECTION CONTROL DEVICE INSPECTOR (CCCD) BEFORE INITIAL OPERATION.
11. MINIMIZE PENETRATION INTO THE GALVANIZED ROOFS THAT COVERS THE CHANGING HUTS. ALL LINES SHOULD ROUTE HORIZONTALLY, BELOW THE ROOF STRUCTURE TO ELIMINATE INDIVIDUAL PENETRATIONS.
12. FAUCETS AND PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE AND COMPLY WITH THE STATE'S ENERGY STANDARDS AND ACCEPTED BY THE STATE PLUMBING BOARD.

**PLUMBING SYMBOLS**

SYMBOL	DESCRIPTION
	GATE VALVE
	GLOBE VALVE
	BALL VALVE
	CHECK VALVE
	BALANCING VALVE
	BALANCING VALVE WITH TEST PORTS
	PLUG VALVE
	UNION
	PIPE TURNED UP
	PIPE TURNED DOWN
	PIPE OUT TOP
	PIPE OUT BOTTOM
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RETURN PIPING
	VENT PIPING
	FIRE PROTECTION PIPING
	NATURAL GAS PIPING
	RAIN CONDUCTOR PIPING
	SANITARY PIPING
	STORM PIPING

**ABBREVIATIONS**

AFF	ABOVE FINISHED FLOOR
ASR	AUTOMATIC SPRINKLER RISER
C.O.	CLEAN OUT
COND	CONDENSATE
CW	COLD WATER (DOMESTIC)
DIA/Ø	DIAMETER
(E)	EXISTING
FD-1	FLOOR DRAIN
F.F.ELV.	FINISHED FLOOR ELEVATION
FP	FIRE PROTECTION
FPWH-#	FROST PROOF WALL HYDRANT
FS-#	FLOOR SINK
GPM	GALLONS PER MINUTE
HW	HOT WATER (DOMESTIC)
HWR	HOT WATER RETURN (DOMESTIC)
I.E.	INVERT ELEVATION
L-# / LAV-#	LAVATORY
ORD-#	OVERFLOW ROOF DRAIN
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RD-#	ROOF DRAIN
RC-#	RAIN CONDUCTOR
S-#	SINK
(TYP)	TYPICAL
V	VENT
V.T.R.	VENT-THRU-ROOF
WC-#	WATER CLOSET
W.C.O.	WALL CLEANOUT
WH-#	WATER HEATER

**PROJECT REQUIREMENTS**

PROVIDE ALL NECESSARY PERMITS. ALL WORK SHALL BE INSTALLED TO COMPLY WITH THE OWNER'S STANDARDS, STATE AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING CODES AND THEIR RELATED REFERENCES. REFERENCE STANDARDS PER 2015 INTERNATIONAL CODES.

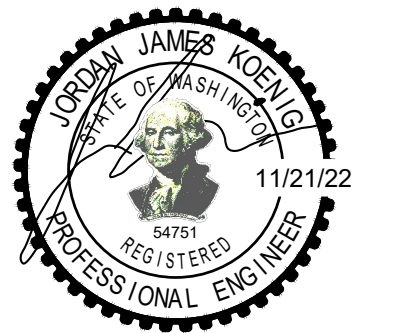
- 2018 IBC (BUILDING)
- 2018 IFC (FIRE)
- 2018 IMC (MECHANICAL)
- 2018 UPC (PLUMBING)
- 2018 IFGC (FUEL & GAS)
- 2018 IECC (ENERGY)

MANUFACTURER AND MODEL NUMBER LISTED REPRESENTS THE BASIS OF DESIGN FOR THIS PROJECT. THE MECHANICAL CONTRACTOR SHALL BEAR ALL ADDITIONAL COST ASSOCIATED WITH USING EQUIPMENT BY OTHER APPROVED MANUFACTURERS INCLUDING ADDITIONAL COSTS BY OTHER TRADES.

ALL EQUIPMENT INSTALLED SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE FIELD OR PROJECT CONDITIONS DO NOT ALLOW ALL MANUFACTURER'S RECOMMENDATIONS TO BE MET, THE INSTALLING CONTRACTOR SHALL SUBMIT IN WRITING TO THE ENGINEER THE PROPOSED DEVIATION, IN A SKETCH FORM, ACCOMPANIED BY THE MANUFACTURER'S CONCURRENCE.

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Do not scale drawings. Use figured dimensions only



architect seal



Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



issue / revision date	
11-18-22 DOH Review	
11-21-22 Building Permit	
12-09-22 Addendum #1	
01-11-23 Owner Revision	
02-09-23 City Review Comments	
02-09-23 DOH Review Comments	
02-09-23 Elect. Review Comments	

drawn by <b>Z.S.</b>	checked by <b>W.V.</b>
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Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

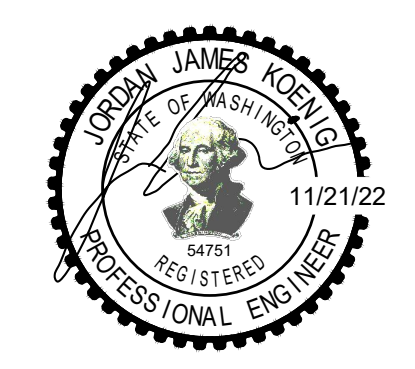
**dma**  
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job number  
**22006**

sheet number  
**P.000**

Plumbing Symbols, Notes, Abbreviations & Specifications



architect seal

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City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT  
Building Planning  
Engineering Public Works  
Fire Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

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drawn by  
**Z.S.**

checked by  
**W.V.**

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

project: **Underground Plumbing -  
New Work Plan**

sheet title:

**dma**  
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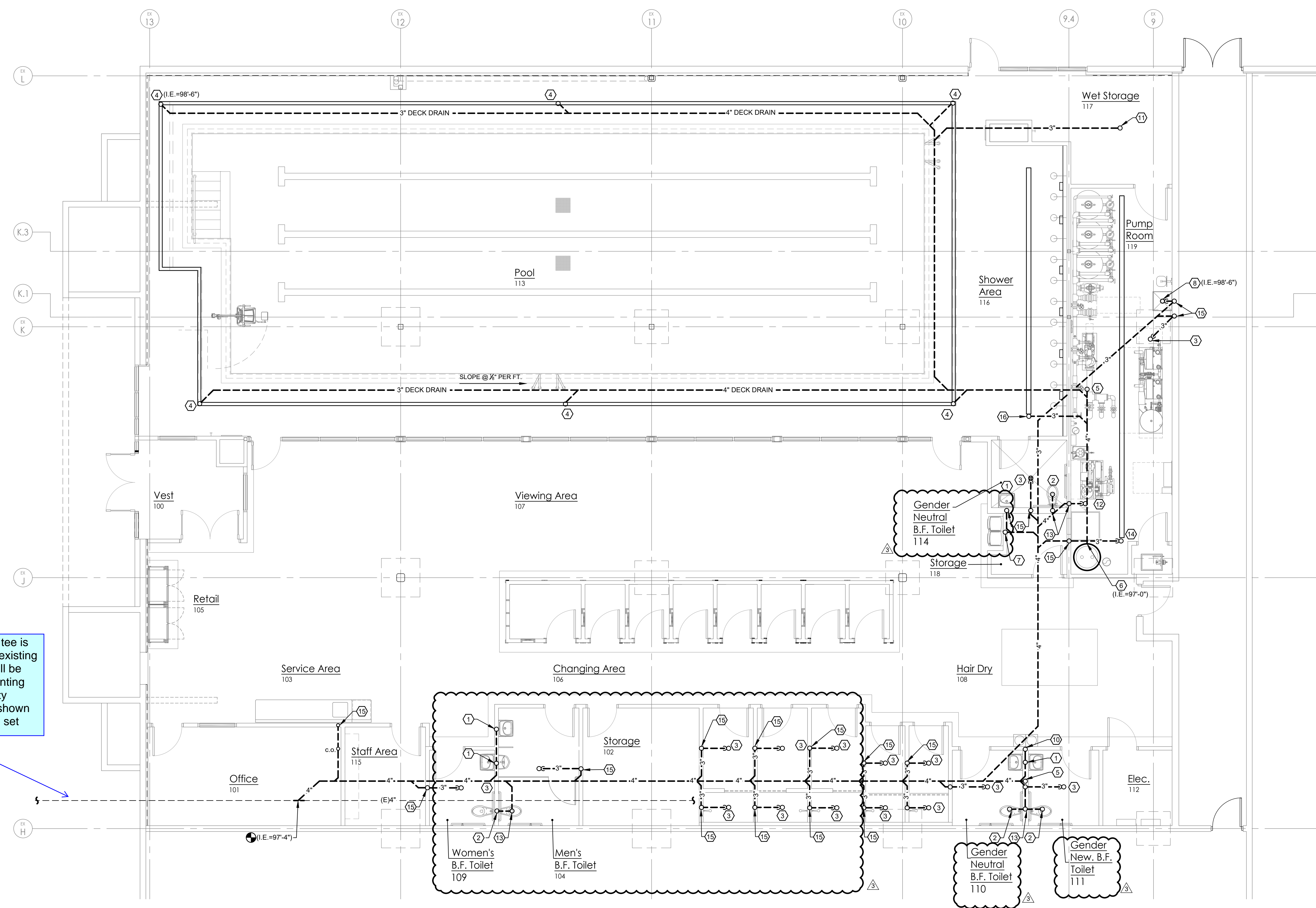
sheet number  
**P.101**

**GENERAL NOTES:**

1. VERIFY UNDERGROUND PLUMBING WITH EXISTING FOUNDATION.
2. 2" SANITARY UP TO PLUMBING FIXTURE(S) ABOVE.
3. 3" SANITARY WITH P-TRAP UP TO FLOOR DRAIN. BATHROOMS AND SHOWER FLOOR DRAIN SET 1/4" LOWER AND PITCH CONCRETE. IN MECHANICAL ROOM FINAL FLUSH WITH FLOOR. COORDINATE FINAL LOCATION AND FLOOR SLOPE WITH ARCHITECTURAL AND STRUCTURAL TRADES.
4. 3" POOL DECK DRAIN PIPE CONNECTION TO POOL DECK TRENCH DRAIN. POOL DECK DRAIN ARE INDIRECT DRAINED TO SUMP PUMP.
5. 4" SANITARY / DECK DRAIN UP TO FLOOR CLEANOUT.
6. 4" POOL DECK DRAIN CONNECTION TO SUMP PUMP SP-1. POOL DECK DRAIN ARE INDIRECT DRAINED TO SUMP PUMP.
7. 2" SANITARY UP IN WALL ABOVE TO ELECTRIC WATER COOLER.
8. 3" SANITARY WITH P-TRAP UP TO SERVICE SINK.
9. 3" SANITARY VENT UP IN WALL ABOVE.
10. 2" SANITARY UP IN WALL TO BATHING SUIT DRYER DRAIN CONNECTIONS.
11. 3" DECK DRAIN UP TO FLOOR DRAIN. FLOOR DRAIN SET 1/4" LOWER AND PITCH CONCRETE. POOL DRAIN ARE INDIRECT DRAINED TO SUMP PUMP.
12. 4" SANITARY WITH P-TRAP UP THROUGH FLOOR. PROVIDE SURGE TANK FOR POOL DECK SUMP PUMP DISCHARGE & POOL FILTER BACKWASH.
13. 2" SANITARY VENT UP IN WALL ABOVE.
14. 4" SANITARY WITH P-TRAP UP TO TRENCH DRAIN.
15. 1-1/2" SANITARY VENT UP IN WALL ABOVE.
16. 4" POOL DECK DRAIN UP TO TRENCH DRAIN.

**KEY NOTES:**

1. 2" SANITARY UP TO PLUMBING FIXTURE(S) ABOVE.
2. 4" SANITARY UP TO WATER CLOSET FLOOR FLANGE.
3. 3" SANITARY WITH P-TRAP UP TO FLOOR DRAIN. BATHROOMS AND SHOWER FLOOR DRAIN SET 1/4" LOWER AND PITCH CONCRETE. IN MECHANICAL ROOM FINAL FLUSH WITH FLOOR. COORDINATE FINAL LOCATION AND FLOOR SLOPE WITH ARCHITECTURAL AND STRUCTURAL TRADES.
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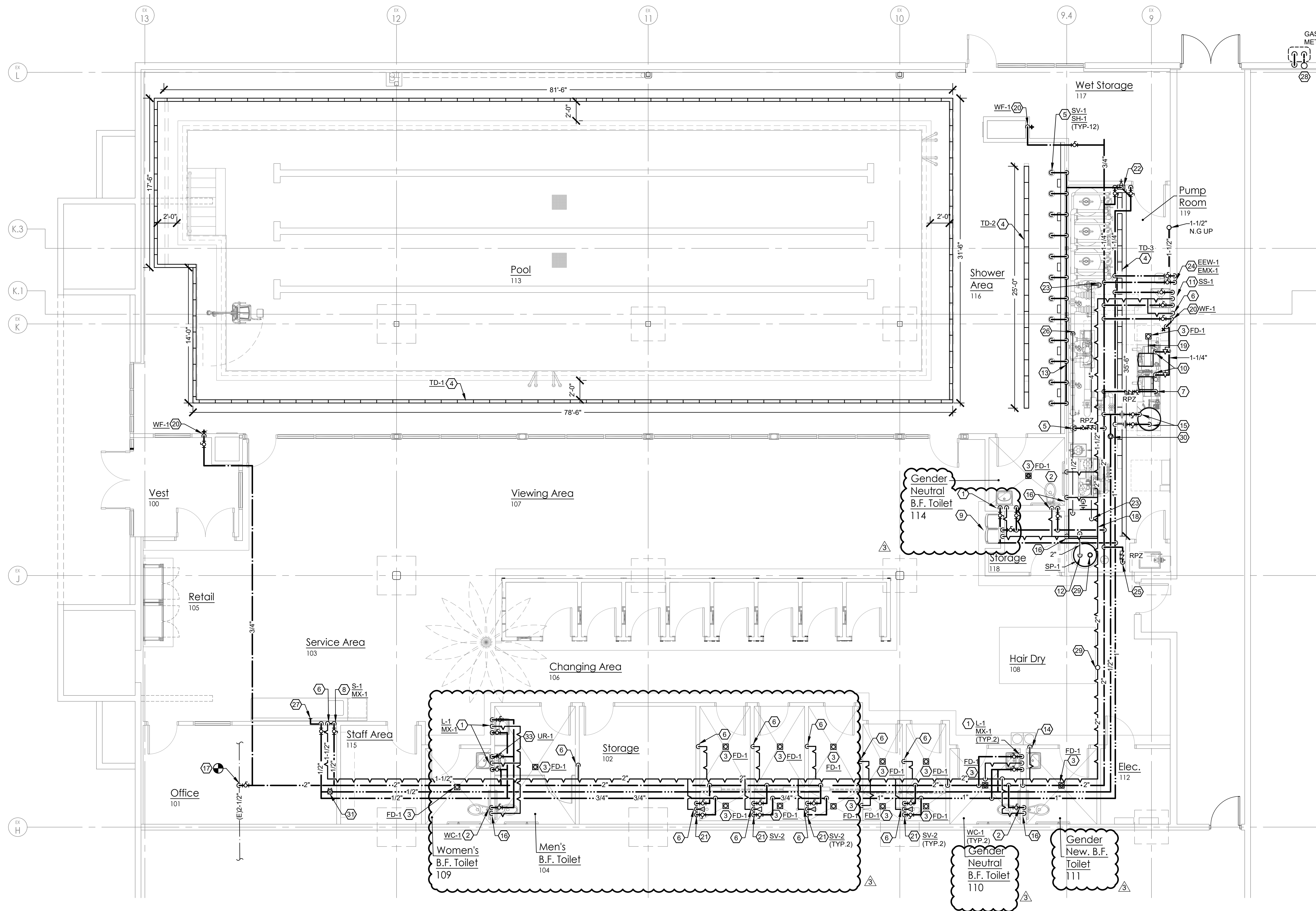


If a sewer sampling tee is not installed on the existing sewer lateral one will be installed prior to granting occupancy. See City Standard 04.03.04 shown on P201 of this plan set

The pool cannot be connected to the Fruitland Mutual water system unless the water service is protected by a reduced pressure backflow assembly (RPBA).  
Installation, filling, and draining of the pool shall comply with applicable county health department requirements. Pool water shall be dechlorinated and have a neutral PH prior to entering the storm sewer system

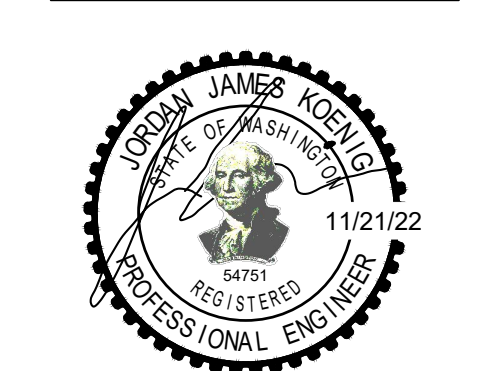
Underground Plumbing - New Work Plan  
3/16" = 1'-0"

**PRCTI20221793**



- KEY NOTES:**
- 2" SANITARY & VENT WITH 1/2" HOT & COLD WATER DOWN TO LAVATORY(S). PROVIDE THERMOSTATIC MIXING VALVE, AND INSULATED PIPE COVERS UNDER EACH LAVATORY. PER 2018 WA STATE ENERGY CODE, HOT WATER RECIRCULATE PIPE MUST LOOP WITHIN 24" OF THE LAVATORY FAUCET SUPPLY.
  - 1 1/2" COLD WATER DOWN TO WATER CLOSET FLUSH VALVES.
  - FLOOR DRAIN. COORDINATE FINAL LOCATION AND FLOOR SLOPE WITH ARCHITECTURAL AND STRUCTURAL TRADES.
  - TRENCH DRAIN. COORDINATE FINAL LOCATION AND FLOOR SLOPE WITH ARCHITECTURAL AND STRUCTURAL TRADES.
  - 1/2" TEMPERED WATER FROM SHOWER VALVE UP TO SHOWER HEAD. MOUNT SHOWER HEAD ARM AT 7'-0" A.F.F. SUPPORT SHOWER ARMS AND SHOWER VALVES WITH 2x4 BLOCKING IN WALL.
  - 1-1/2" SANITARY VENT DOWN IN WALL TO UNDERGROUND.
  - 3/4" MAKE UP WATER FOR BOILERS. PROVIDE WATTS MODEL 009 RPZ (OR EQUAL).
  - 1/2" HOT & COLD WATER & 2" SANITARY WITH 1-1/2" VENT TO SINK. PROVIDE THERMOSTATIC MIXING VALVE UNDER SINK.
  - 1/2" COLD WATER & 1-1/2" VENT DOWN TO ELECTRIC WATER COOLER.
  - 1-1/4" NATURAL GAS DOWN TO POOL WATER HEATER. (199 MBH). LOCATE LOCHINVAR SKID PACKAGE 14" OFF THE WALL.
  - 1/2" HOT AND COLD WATER DOWN TO SERVICE SINK FAUCET.
  - 2" PUMPED POOL DECK WATER TO SPILL TO SURGE TANK. DISCHARGE WITH 6" AIR GAP.
  - ROUTE 1-1/2" TEMPERED WATER IN PLUMBING FUR-OUT WALL.
  - 1-1/2" VENT DOWN TO BATHING SUIT DRYER WITH 2" SANITARY DRAIN.
  - 2" HOT AND 2" COLD WATER DOWN TO WATER HEATER (WH-1).
  - 2" SANITARY VENT DOWN IN WALL TO UNDERGROUND.
  - LANDLORD TO PROVIDE NEW 2" WATER LINE WITH 2" METER SHUT OFF/ BACKFLOW BYPASS VALVES. CONNECTED NEW 2" WATER LINE INTO GFSS SPACE. NEW 2" WATER METER WILL BE LOCATED OUTSIDE OF THE BUILDING IN THE WATER VAULT.
  - SURGE TANK FOR POOL FILTER BACKWASH DISCHARGE. REFER TO DETAIL ON DRAWING P.201 FOR PIPING DIAGRAM. PLASTIC-MART MODEL #M-60113 175 GALLON CONE BOTTOM TANK WITH POLY STAND SURGE TANK FOR POOL FILTER BACKWASH DISCHARGE. REFER TO DETAIL ON DRAWING P.201 FOR PIPING DIAGRAM.
  - 3/4" BOILER / WATER HEATER TEMPERATURE AND PRESSURE RELIEF PIPE TO SPILL TO FLOOR DRAIN.
  - 3/4" COLD WATER IN WALL TO WALL FAUCET MOUNTED 18" A.F.F. VERIFY FINAL MOUNTING HEIGHT WITH OWNER & ARCHITECT.
  - 1/2" HOT AND COLD WATER DOWN TO ADA SHOWER VALVE SYSTEM.
  - 1-1/4" HOT AND COLD WATER DOWN TO SHOWER MIXING VALVE. ROUTE 2" TEMPERED WATER THROUGH WALL TO SHOWER VALVES. MOUNT VALVE 5'-0" ABOVE FINISHED FLOOR FOR SHUT-OFF VALVE ACCESSIBILITY. INSTALL VALVES PRIOR TO SHOWER VALVE TO TURN OFF WATER.
  - 4" POOL FILTER BACKWASH PIPE TO SPILL TO SURGE TANK. DISCHARGE WITH 6" AIR GAP.
  - 3/4" HOT AND COLD WATER TO WALL MOUNTED EMERGENCY EYE/FACE WASH WITH THERMOSTATIC MIXING VALVE.
  - 1" COLD WATER DOWN WITH BALL VALVE AND HOSE CONNECTION TO POOL FILL PIPE. REFER TO WATER LEVEL CONTROLLER DETAIL ON THE POOL EQUIPMENT SUPPLIER DRAWINGS FOR PIPING ARRANGEMENT AND FITTINGS. PROVIDE WATTS MODEL 009 RPZ (OR EQUAL)
  - 1/2" AUTO DRAIN PIPE TO SPILL TO SURGE TANK DISCHARGE WITH 6" AIR GAP. SEE DETAIL. COORDINATE TIE-IN WITH POOL EQUIPMENT SUPPLIER.
  - 3/8" COLD WATER WITH WATTS #SD-3 DUAL CHECK VALVE WITH ATMOSPHERIC PORT & STRAINER TO COFFEE MAKER.
  - 2-1/2" NATURAL GAS DOWN TO GAS METER. GAS PIPING SIZED BASED ON A DEVELOPED PIPE LENGTH OF 175', 1250 CFH, 7" W.C. AND MAXIMUM PRESSURE DROP OF 0.5 IN W.C. IF HIGH PRESSURE IS AVAILABLE, THE ENGINEER OF RECORD SHOULD BE NOTIFIED AND THE DRAWINGS SHALL BE REVISED ACCORDINGLY. THE REVISION WILL INCLUDE DECREASE OF PIPE SIZE AND ADD OF PRESSURE REGULATOR TO EACH EQUIPMENT. INSTALL NEW GAS METER NEXT TO THE EXISTING GAS METERS, APPROXIMATELY 150' FROM GFSS.
  - 3"Ø VENT UP THROUGH ROOF.
  - 1/2" HOT WATER RE-CIRCULATION PUMP. REFER TO DETAIL.
  - BALANCE VALVE. SET TO 0.25 GPM.
  - 2" HYDROGEN VENT UP THROUGH ROOF. REFER TO POOL EQUIPMENT SUPPLIER DRAWINGS.
  - 2" SANITARY & 1-1/2" VENT WITH 3/4" COLD WATER DOWN TO URINAL.

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Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be  
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approval.

**goldfish swim school**  
www.theexperienceisgoldfish.com

issue / revision date
11-18-22 DOH Review
11-21-22 Building Permit
12-09-22 Addendum #1
01-11-23 Owner Revision
02-09-23 City Review Comments
02-09-23 DOH Review Comments
02-09-23 Elect. Review Comments

drawn by <b>Z.S.</b>	checked by <b>W.V.</b>
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Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

project: Aboveground Plumbing-  
New Work Plan

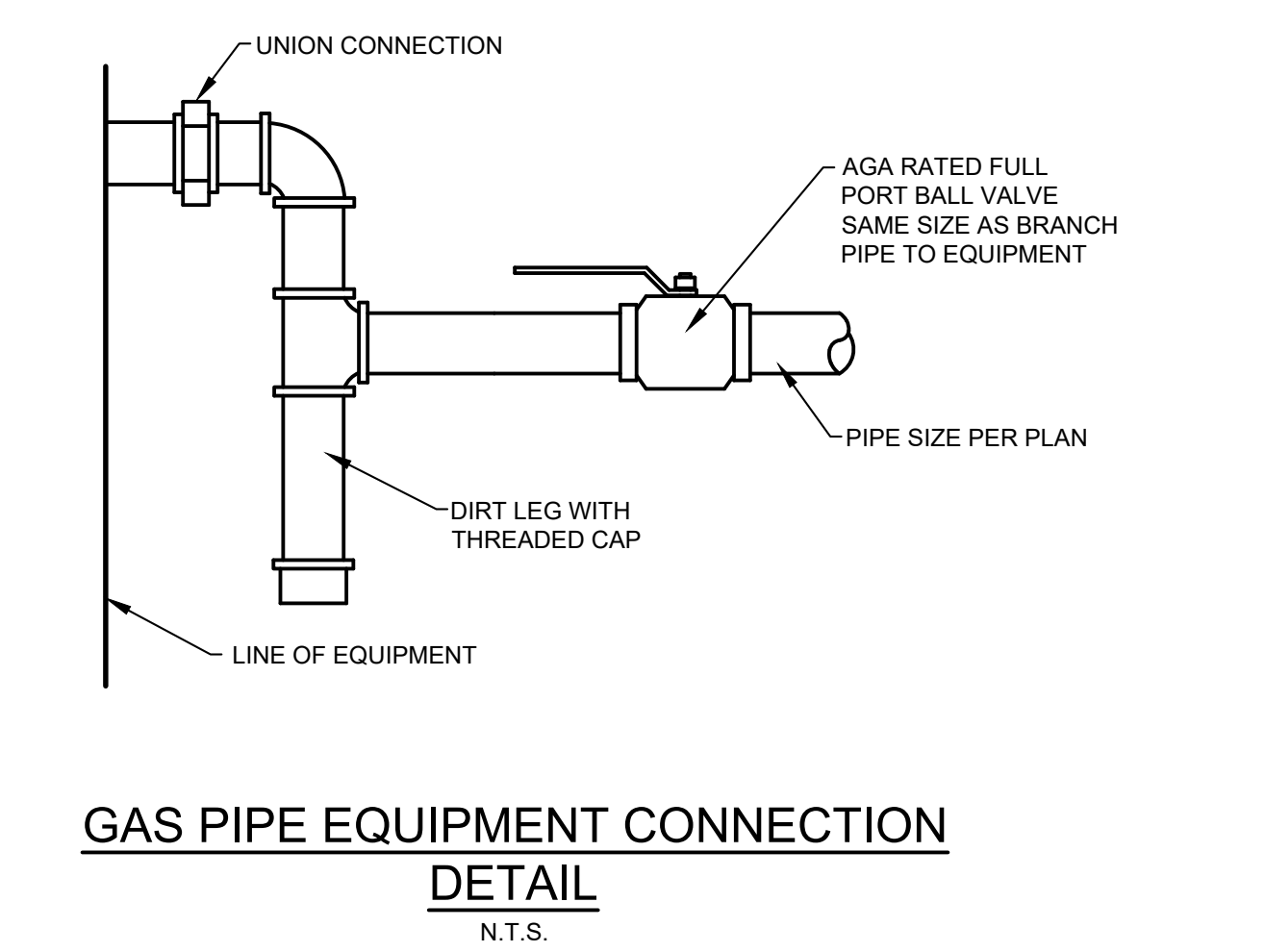
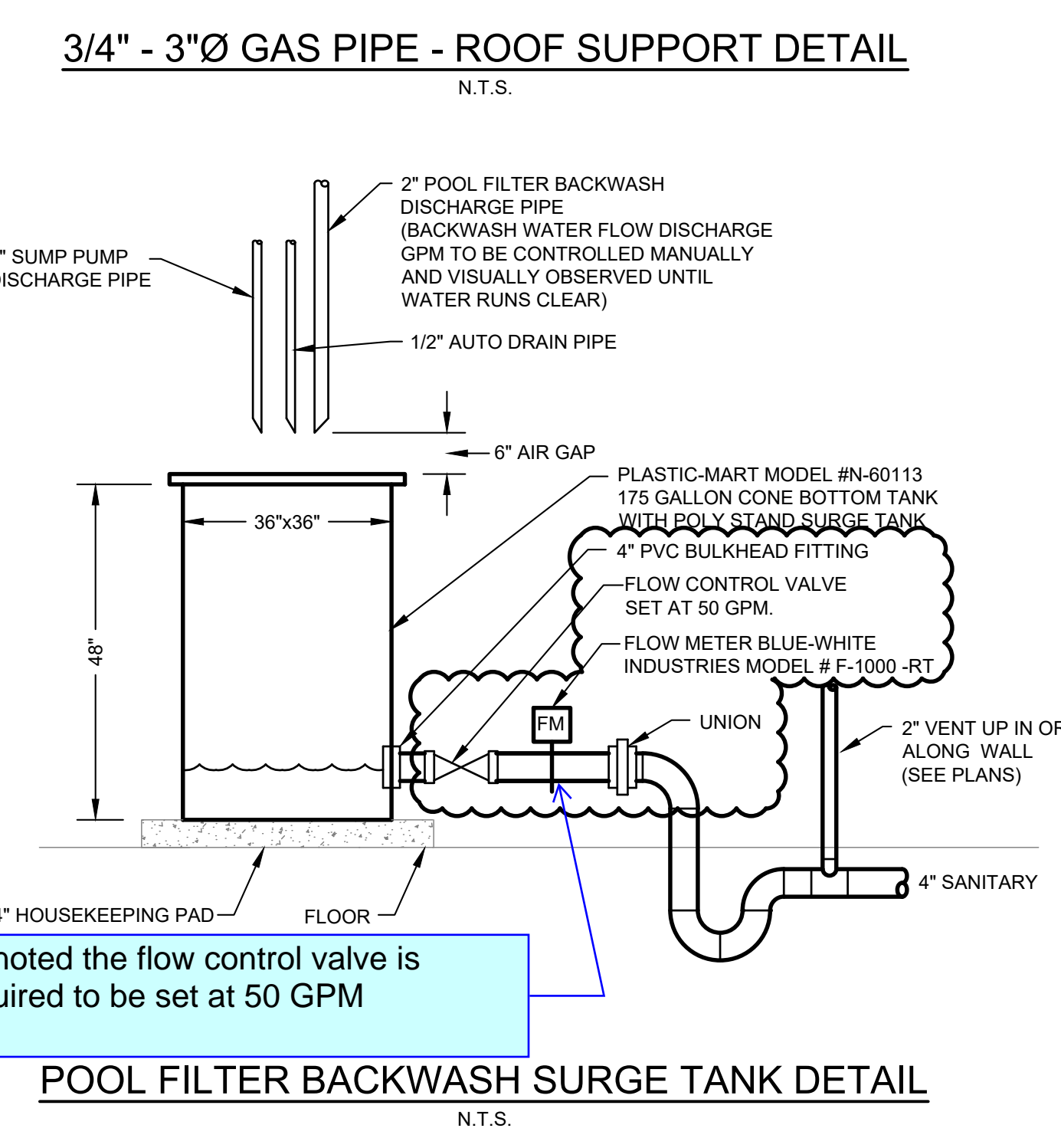
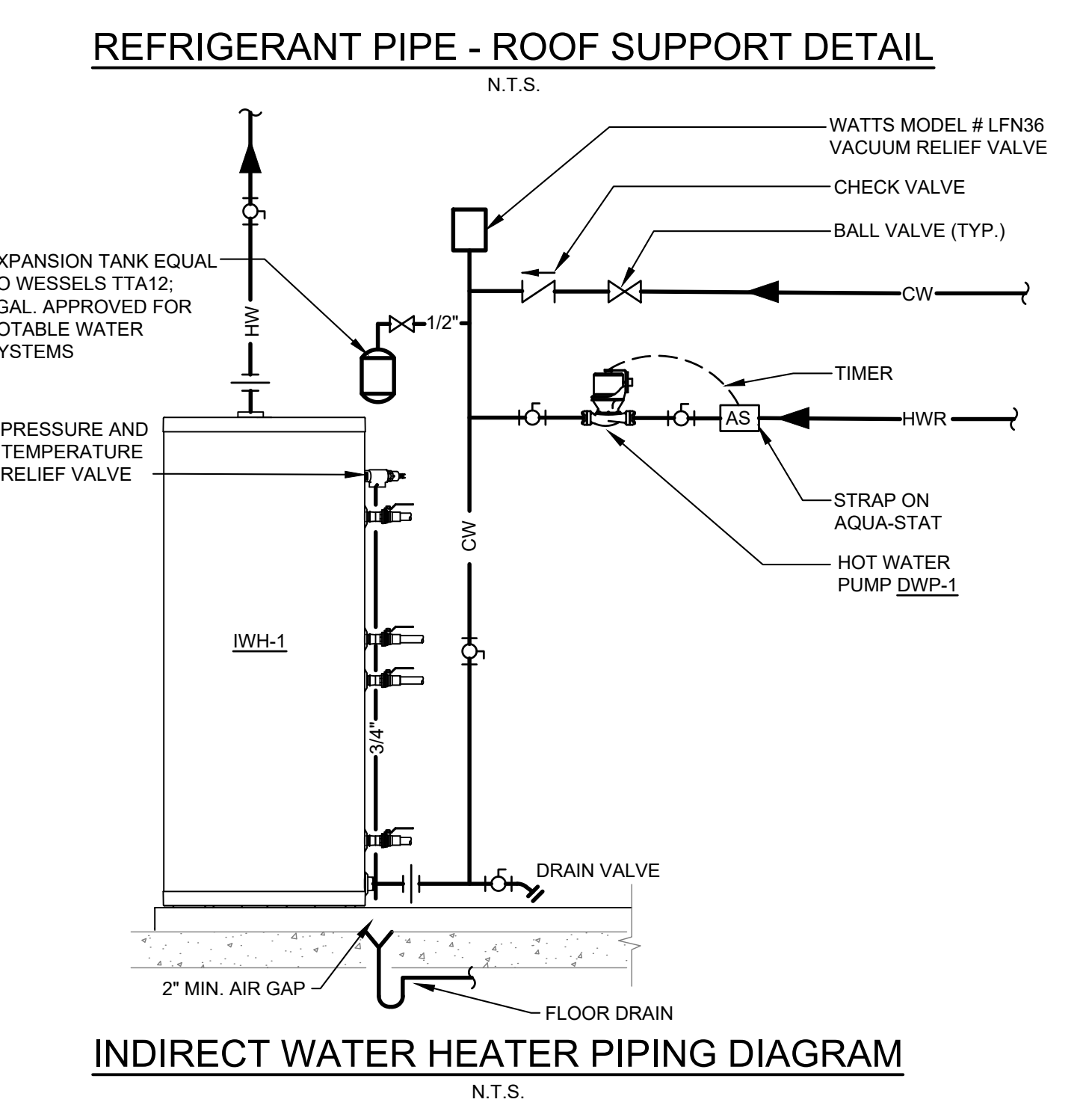
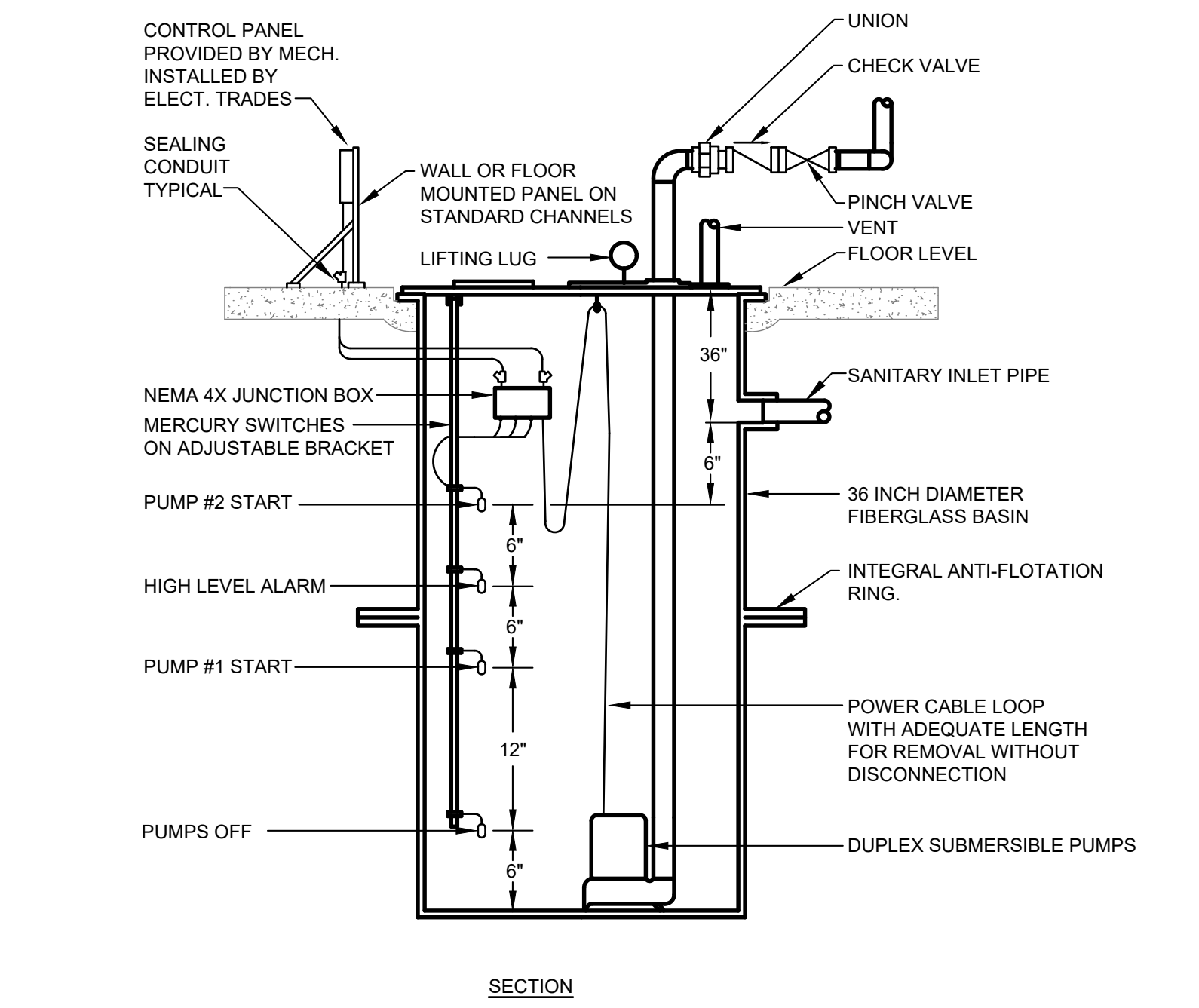
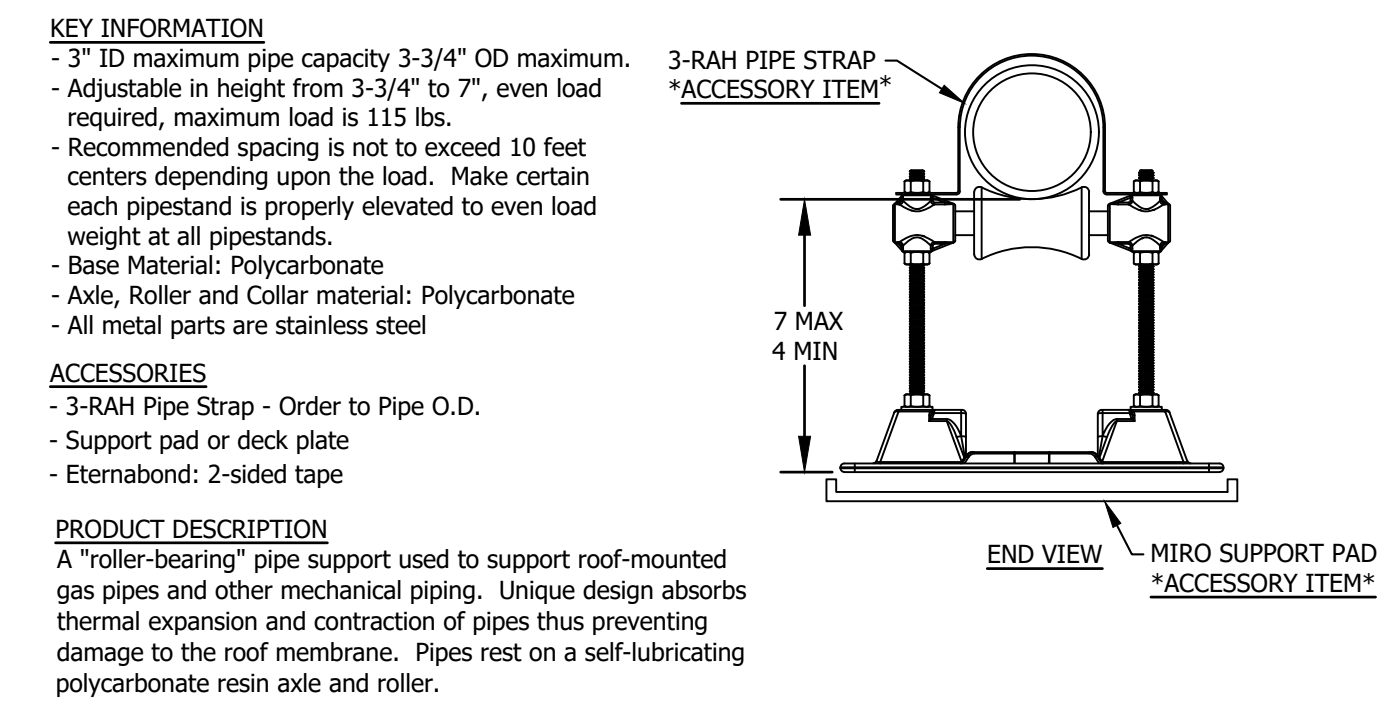
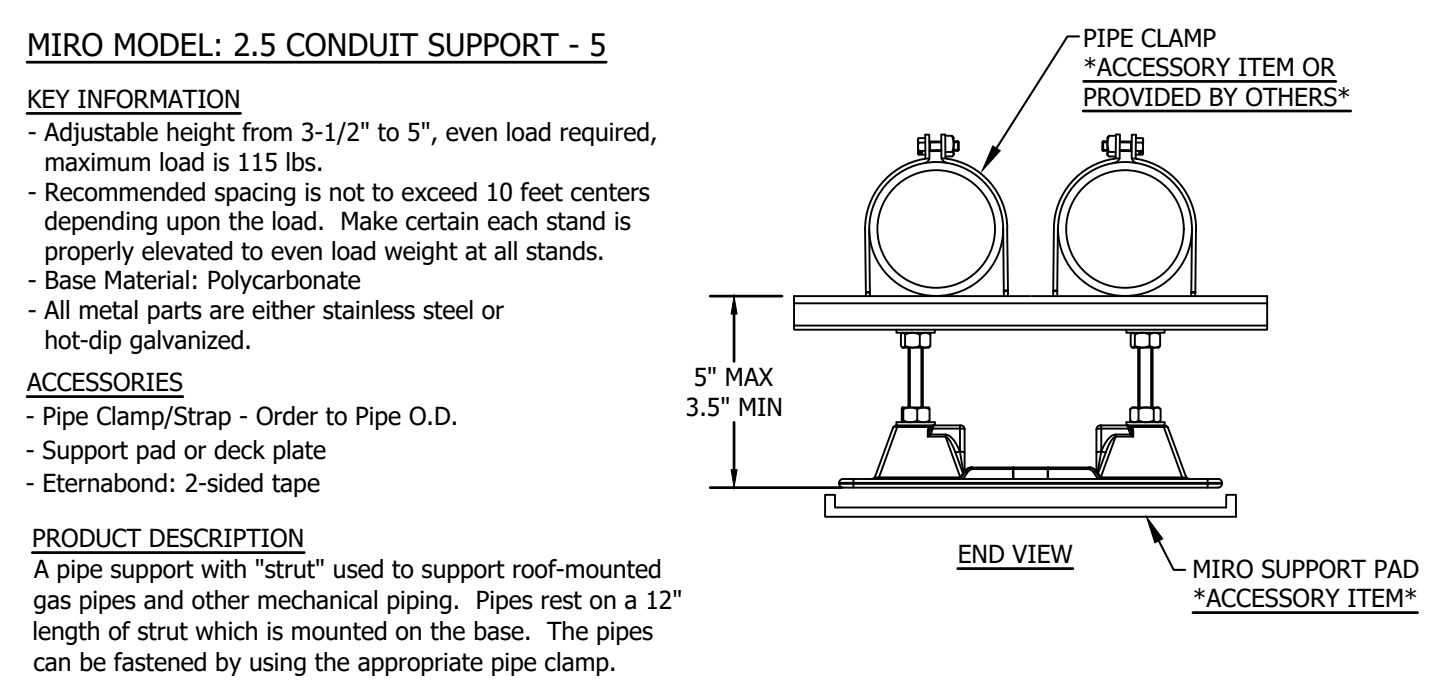
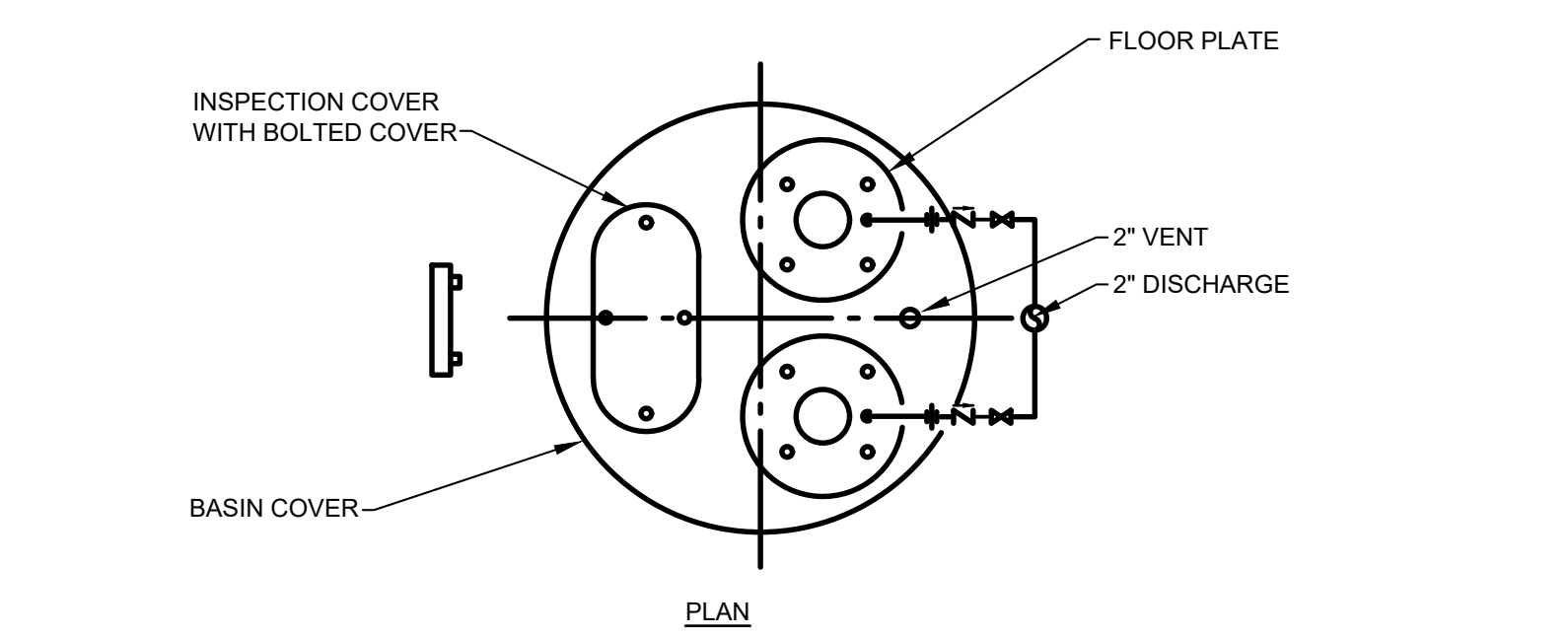
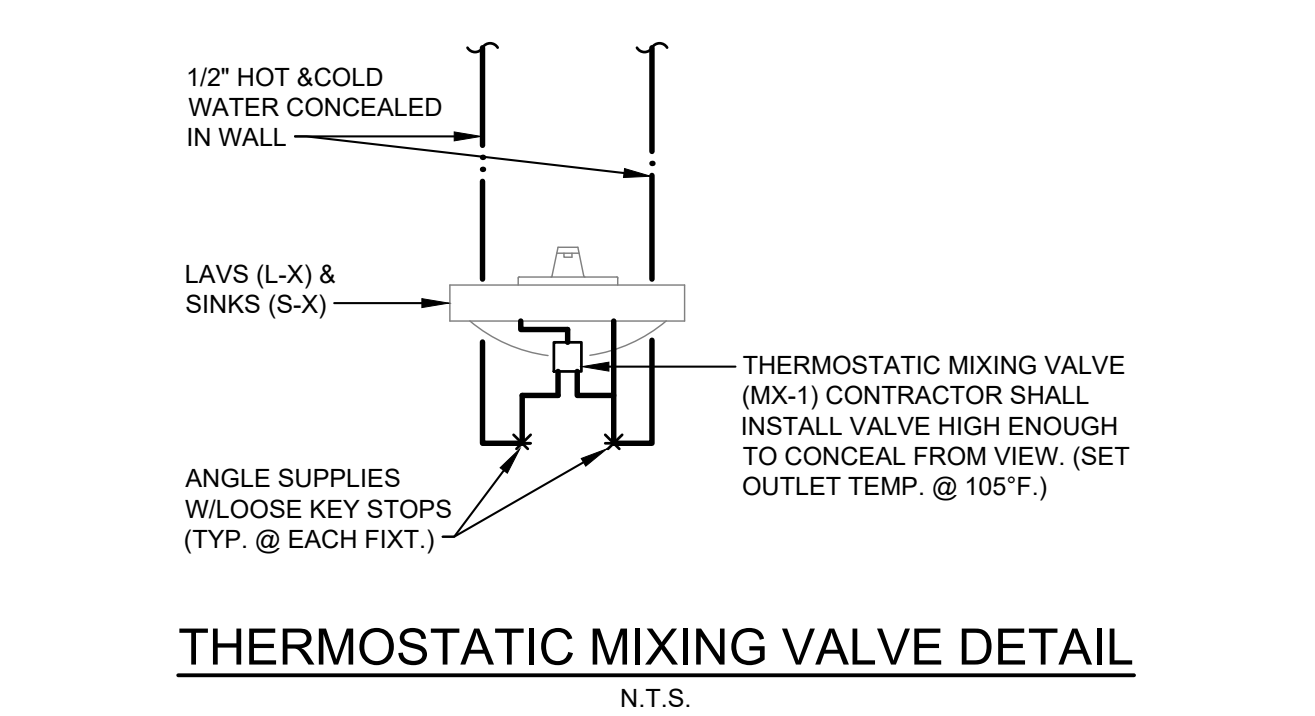
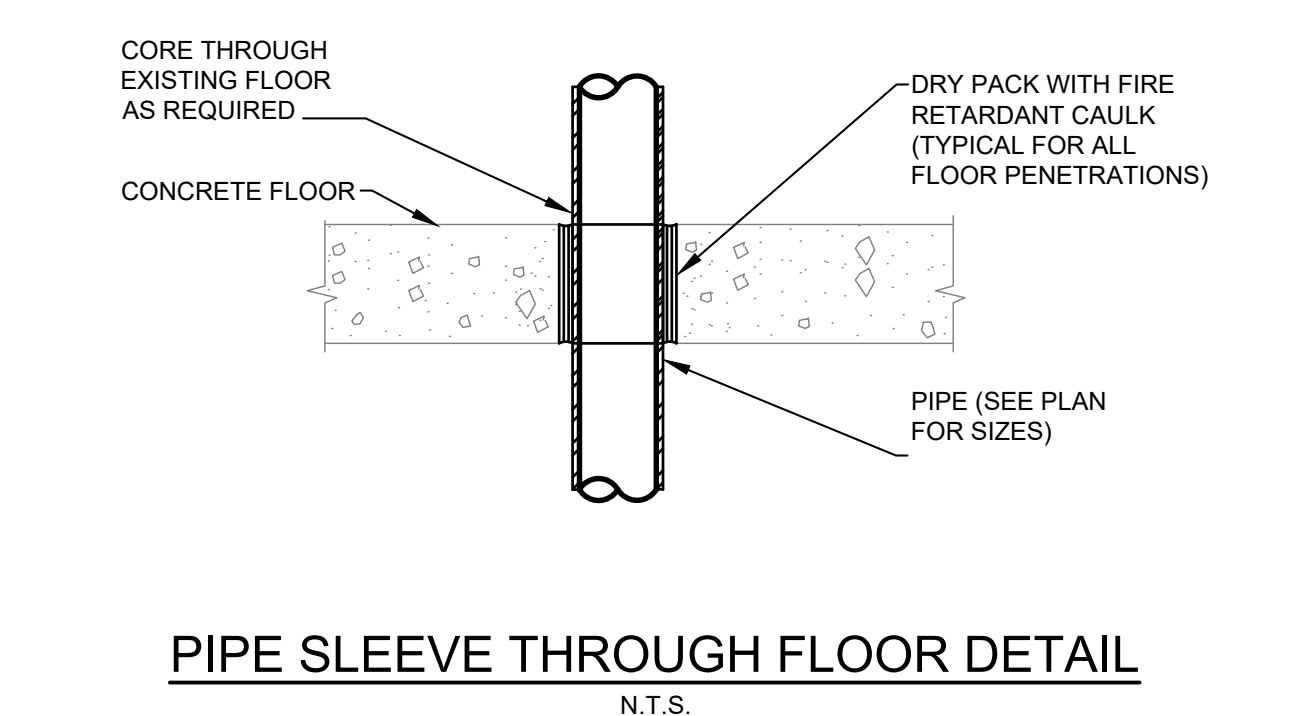
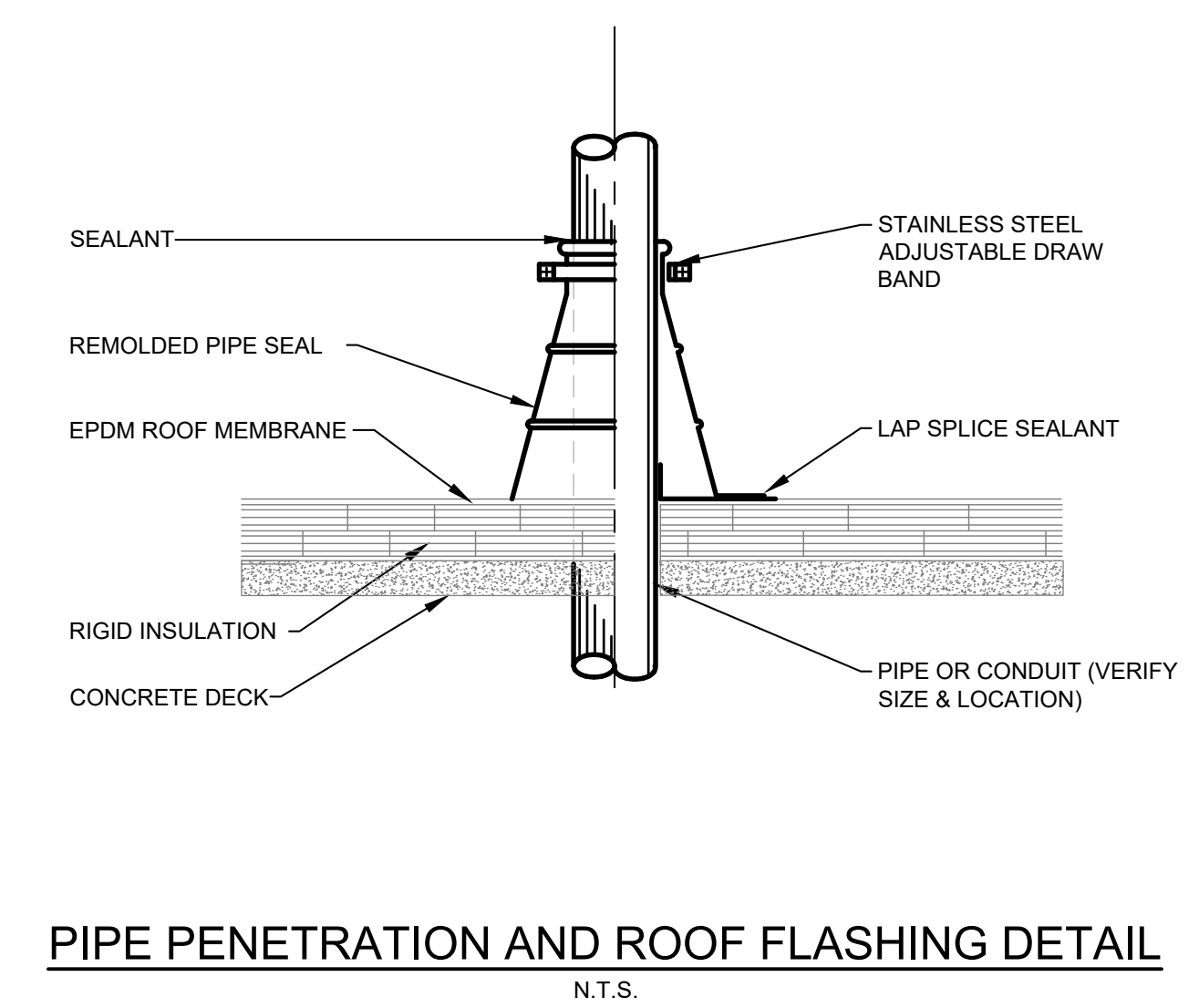
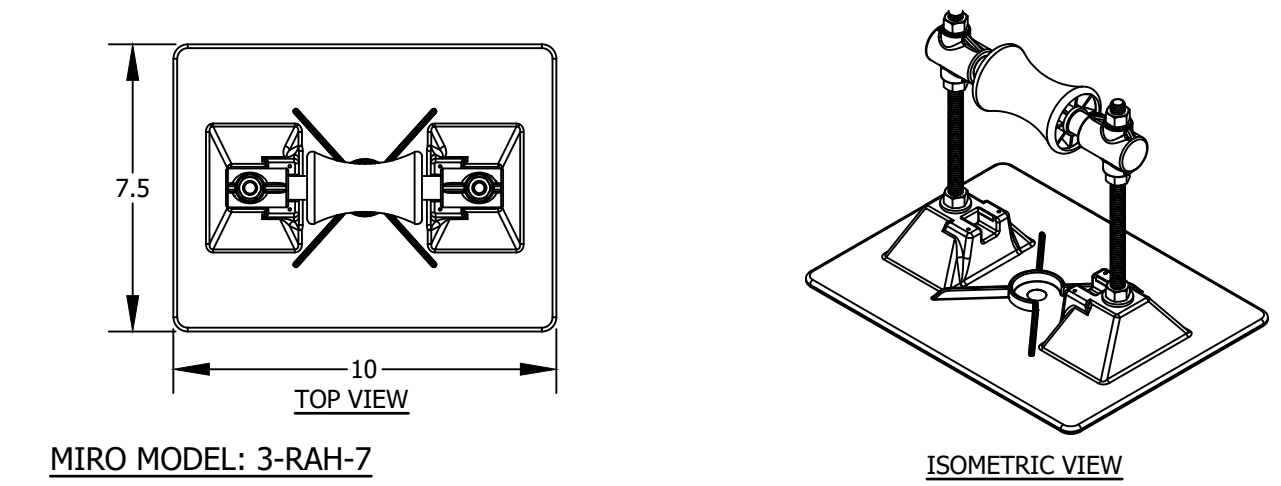
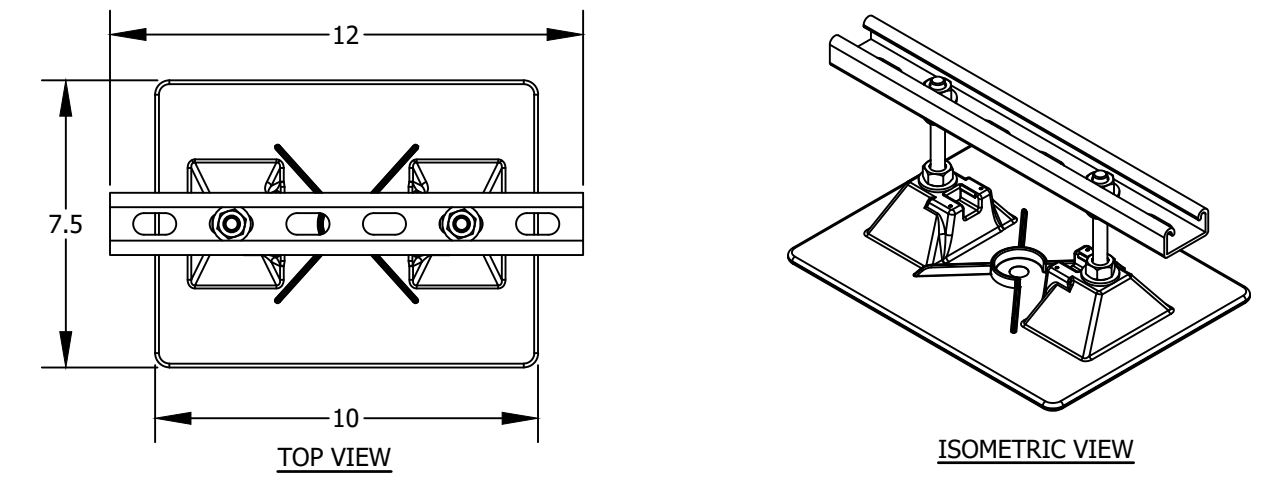
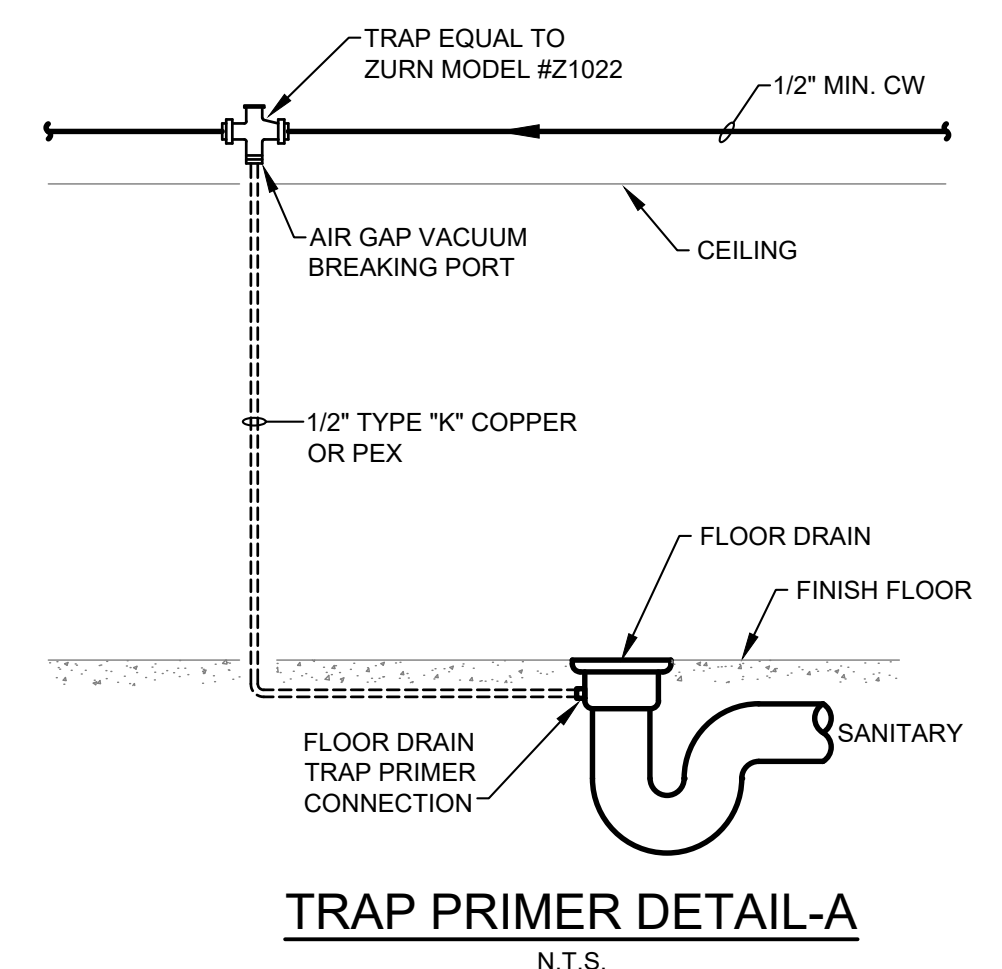
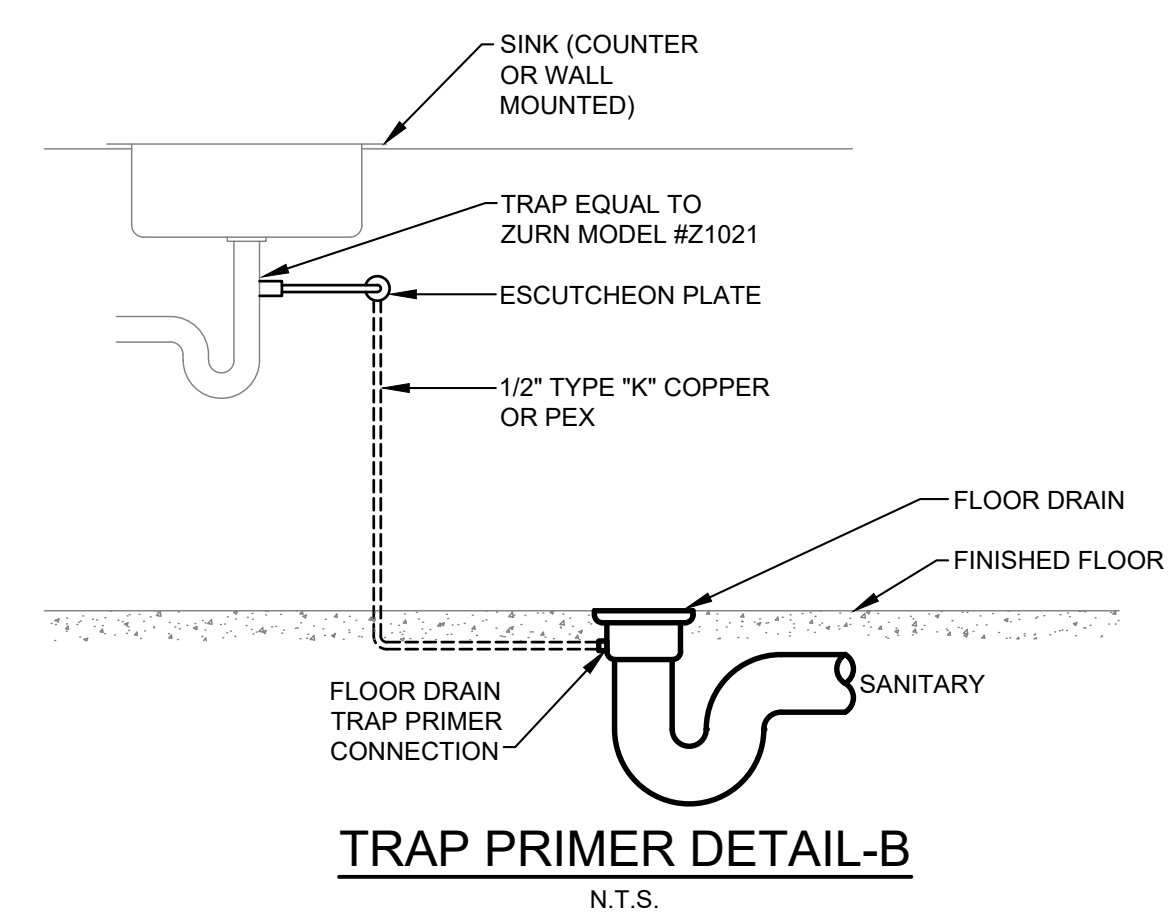
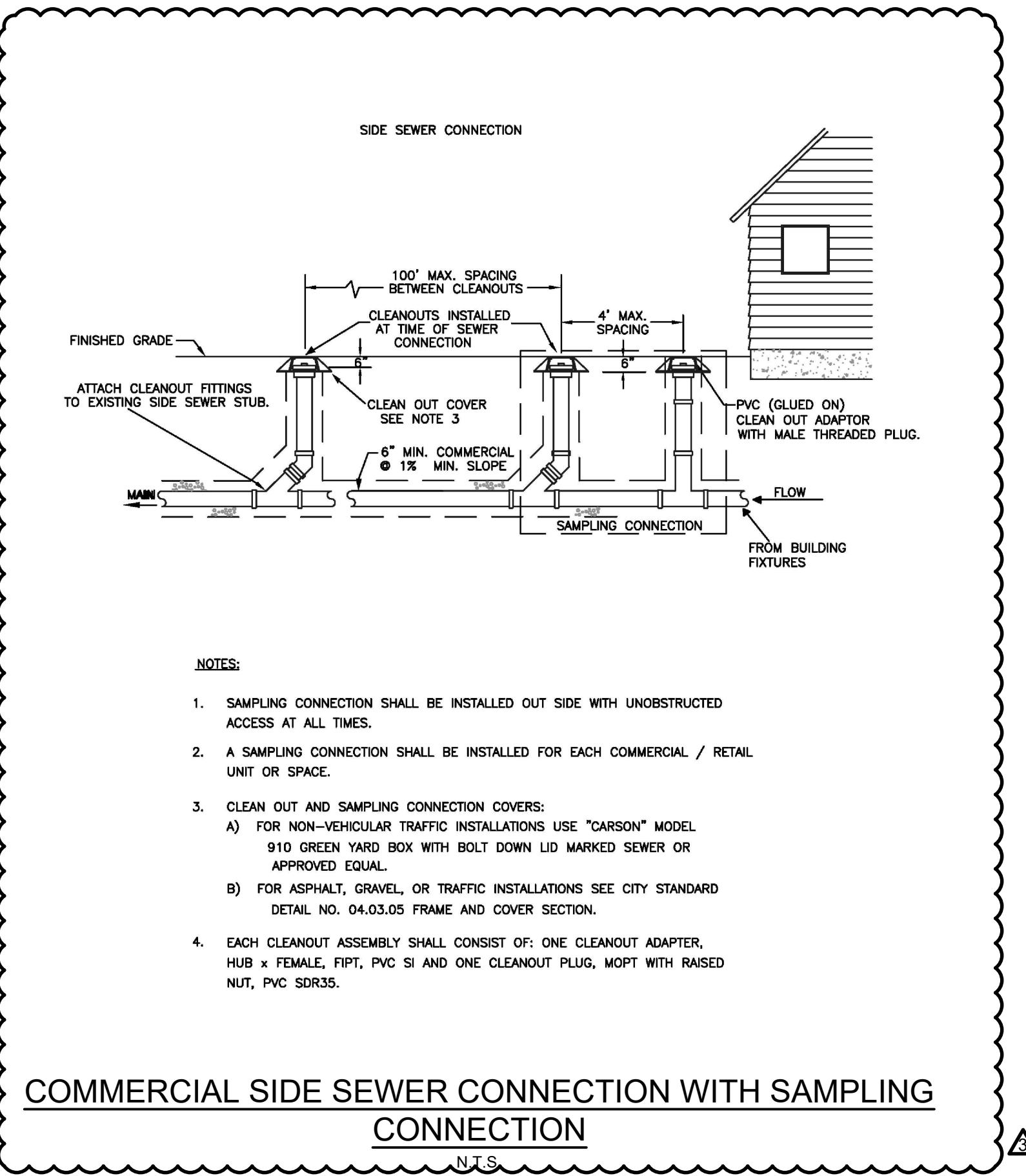
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job number 22006 sheet number P.102

Aboveground Plumbing - New Work Plan  
3/16" = 1'-0"

PRCTI20221793



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drawn by <b>Z.S.</b>	checked by <b>W.V.</b>
Goldfish Swim School South Hill Mall - Unit 900-30 3500 South Meridian Puyallup, WA 98373	
project:	sheet title: <b>Plumbing Details</b>

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job number 22006	sheet number P.201
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PRCTI20221793

PLUMBING FIXTURE SCHEDULE									
MARK	ITEM	ADA	DESCRIPTION	ACCESSORIES	PIPE CONNECTION SIZES				NOTES
					W	V	CW	HW	
WC-1	FLOOR MOUNTED FLUSH VALVE WATER CLOSET	X	American Standard MADERA FloWise Elongated 16-1/2" (420mm) high High Efficiency HET Toilet #3461.001	Flush Valve: Sloan #111-1-28-ROYAL Seat: American Standard #5905.110T Flange	4"	2"	1"	---	
L-1	WALL MOUNTED LAVATORY	X	American Standard #0355.012 'LUCERNE' Basin	Faucet: American Standard #7385.F05.004.002 Aerator: American Standard #F05 Drain: McGuire #155A Supply: McGuire #LFBV170 1/4 turn p-Trap: McGuire #8912C 1-1/2" Plated Brass w/Cleanout Carrier: Jay R. Smith #0700-Z	1-1/2"	1-1/2"	1/2"	1/2"	1
UR-1	WALL HUNG URINAL		Mansfield 410HE 5 Gpl Urinal-Meets ADA When Installed At Proper Height	Flush Valve: Sloan #186-0.5 (0.5 gpf.) Strainer: American Standard #47068-0070A Cleanout: Jay R. Smith #SD4-1819 Carrier: Jay R. Smith #0637	2"	1-1/2"	3/4"	---	
SS-1	SERVICE SINK		FIAT Mop Sink #MSBID2424	Faucet: FIAT #830-AA with Integral Check Valves Bracket: FIAT #830-AA Mop Hanger: FIAT #899-CC Drain Gasket: FIAT #DC3-2 Splash Panel: FIAT #MSG	3"	1-1/2"	1/2"	1/2"	
S-1	STAINLESS STEEL SINK (18 ga)		Elkay #LR1919 with Elkay #LK300LGN08L2 two lever faucet, 8" tubular swing-spout aerator, 3/8" O.D. Copper tube inlets, 3-hole installation	3-1/2" drain outlet, conical strainer plate with moveable lift knob, neoprene stopper, c.p. brass 1-1/2" O.D. tailpiece	2"	2"	1/2"	1/2"	1
MX-1	THERMOSTATIC MIXING VALVE		WATTS #LFUSG-B	ASSE 1070 Thermostatic Mixing Valve	---	---	1/2"	1/2"	
MX-2	HIGHLOW THERMOSTATIC MIXING VALVE		LEONARD XL-690-LF-DT (1-65 GPM)	ASSE 1017 & 1069 Thermostatic Mixing Valve Certified Lead Free (Set discharge temperature @ 100°F)	---	---	2"	1 1/2"	
SV-1	SHOWER VALVE		CHICAGO FAUCETS MODEL 770-PLABCP	Concealed straight valve, 3" Cross handles, slow compression operating cartridges, ECAST design provides durable construction with total lead content equal to or less than 0.25%by weighted average.	---	---	1/2" TW		Use blue insert
SV-2	ADA SHOWER SYSTEM	X	MOEN #T9346GBM15 VALVE: 8371HD WITH INT. STOPS	Pressure balancing valve with chrome plated handle, hand-held shower head, 69" flexible metal hose 24" side bar & integrated vacuum breaker (Set hot water limit stop to a maximum of 110°F)	---	---	1/2"	1/2"	
SH-1	SHOWER HEAD		AMERICAN STANDARD MODEL #1660.683.002	10" Rain Showerhead in polished chrome with polished chrome with American Standard #1660.118.002 18" polished chrome wall mount right angle shower arm	---	---	1/2" TW		
WF-1	WALL FAUCET		WOODFORD MODEL 26	Backflow protected wall faucet With no sprayback	---	---	3/4"	---	

(APPROVED EQUAL: NONE)

NOTES:  
1. PROVIDE PLASTIC TYPE PIPE COVERS EQUAL TO TRUEBRO "LAV GUARD" ON ALL ACCESSIBLE LAVATORIES AND SINKS.

EMERGENCY PLUMBING FIXTURE SCHEDULE										
MARK	ITEM	ADA	DESCRIPTION	ACCESSORIES	PIPE CONNECTION SIZES					NOTES
					W	V	CW	HW	TW	
EEW-1	EYE / FACE WASH		Bradley Model S19224FWPT Wall-Mount Halo Eye/Face Wash	Yellow impact-resistant Plastic Bowl	-	-	-	-	1/2"	-
EMX-1	THERMOSTATIC MIXING VALVE		Bradley Model S19-2000 EFX8	Adjustable set point, Inlet checkstops, built-in cold water bypass, Dial thermometer. 7.3 GPM @ 30 PSI	-	-	1/2"	1/2"	1/2"	-

(APPROVED EQUAL: NONE)

MINIMUM PIPE INSULATION THICKNESS				
FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY (BTU. IN/H.FT2.F°)	NOMINAL PIPE OR TUBE SIZE (INCHES)		
		< 1	1 TO < 1-1/2	1-1/2 TO < 4
141-200	0.25-0.29	1.5	1.5	2.0
105-140	0.21-0.28	1.0	1.0	1.5
40-60	0.20-0.26	0.5	0.5	1.0

DOMESTIC WATER RE-CIRC PUMP SCHEDULE														
MARK	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	FLOW (GPM)	TOTAL HEAD (FT)	PUMP SIZE	ELECTRICAL DATA					NOTES:	
								HP	RPM	VOLTAGE	PHASE	HZ		
DWP-1	GRUNDFOS	UP15-18BUC7	SEE PLANS	IN-LINE	1	13.5	1/2"	1/25	2,900	120	1	60	1,2,3,4,5	

(APPROVED EQUAL: TACO, BELL & GOSSETT, ARMSTRONG)

NOTES:  
1. U.L. LISTED  
2. BRONZE FITTED  
3. 5-FOOT CORD LINE WITH PLUG, AQUASTATAND TIMER  
4. INTEGRATED CHECK VALVE  
5. SEE WATER HEATER PIPING DIAGRAM

ELECTRIC WATER COOLER SCHEDULE											
MARK	MANUFACTURER	MODEL NUMBER	FINISH	TYPE	ADA	CAPACITY G.P.H.	ELECTRICAL				NOTES:
							WATTS	F.L.A.	VOLT / PHASE		
EWC-1	ELKAY	EZSTL8WS(VR)JK	STAINLESS	WALL MOUNT (BI-LEVEL)	ADULT & CHILD	8	370	5.0	115 / 1		1, 2

(APPROVED EQUAL: NONE)

NOTES:  
1. CABINET COLOR OPTION SHALL BE LIGHT GRAY GRANITE.  
2. PROVIDE EZH20 BOTTLE FILLING STATION.

SUMP PUMP SCHEDULE														
MARK	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	FLOW (GPM)	TOTAL HEAD (FT)	PUMP SIZE	BASIN SIZE	ELECTRICAL DATA					NOTES:
									HP	RPM	VOLTAGE	PHASE	HZ	
SP-1	ZOELLER	270	POOL EQUIP. ROOM	DUPLX	35	20	2"	36"Øx72"	(2)1/2	1,750	115	1	60	1,2,3,4,5,6,7

(APPROVED EQUAL: NONE)

NOTES:  
1. U.L. LISTED  
2. 15' POWER CABLE PLUG TYPE DISCONNECT  
3. "PIGGYBACK" FLOAT SWITCH  
4. REMOTE HIGH WATER ALARM  
5. BRONZE IMPELLER  
6. ALTERNATING DUPLX CONTROL PANEL  
7. 36" ROUND STEEL COVER WITH ALL NECESSARY OPENINGS.

TRENCH DRAIN SCHEDULE									
MARK	MANUFACTURER	MODEL NUMBER	LOCATION	BODY MATERIAL	GRATE		DIMENSIONS	PIPE SIZE (IN.)	NOTES:
					TYPE	FINISH			
TD-1	ZURN	Z88	POOL DECK	HDPE	HPP - SLOTTED GRATE	HDPE (GRAY)	4-3/4"xVARIES	3"	1, 2, 3
TD-2	ZURN	Z886	SHOWERS	HDPE	HPP - SLOTTED GRATE	HDPE	6" x300"	4"	1, 3
TD-3	ZURN	Z886	PUMP ROOM	HDPE	HPP - SLOTTED GRATE	HDPE	6" x258"	4"	1, 3

(APPROVED EQUAL: NONE)

NOTES:  
1. PROVIDE BOTTOM OUTLET WITH NO-HUB FITTING.  
2. ALL 40" LONG CHANNELS SHALL BE PROVIDED FLAT (NO SLOPE).  
3. PROVIDE WITH STAINLESS STEEL CLIPS AND BOLTS WITH PACKAGE.

FLOOR DRAIN SCHEDULE									
MARK	MANUFACTURER	MODEL NUMBER	LOCATION	BODY MATERIAL	GRATE		STRAINER	PIPE SIZE (IN.)	NOTES:
					TYPE	FINISH			
FD-1	SIoux CHIEF	832-36PNR	SEE PLAN	PVC	6" DIA.	NICKEL BRONZE	NONE	3"	1

(APPROVED EQUAL: NONE)

NOTES:  
1. PROVIDE TRAP PRIMER.



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Puyallup, WA  
F.A. #272

Brand Standards

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issue / revision date

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drawn by **Z.S.** checked by **W.V.**

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
project:  
sheet title:



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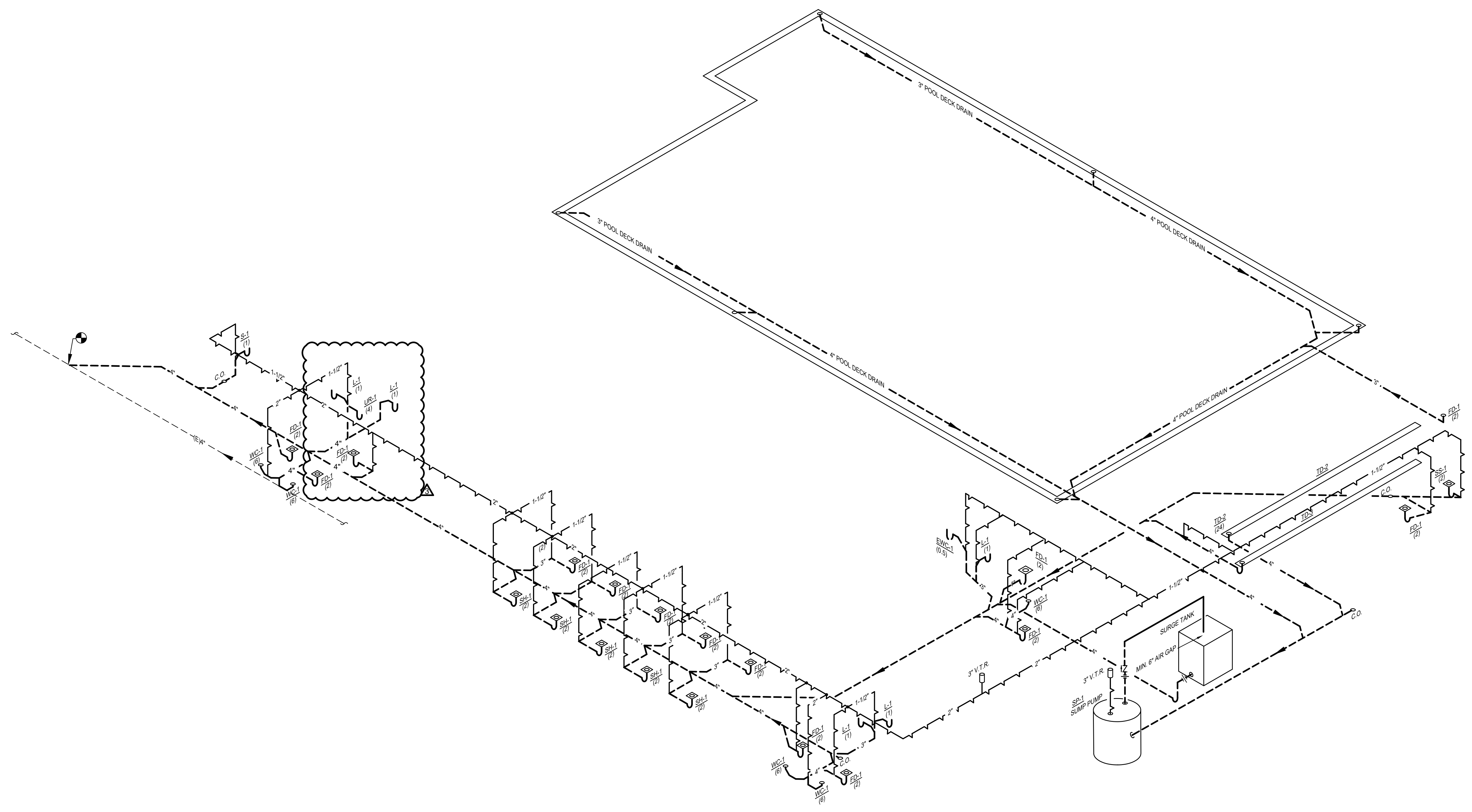
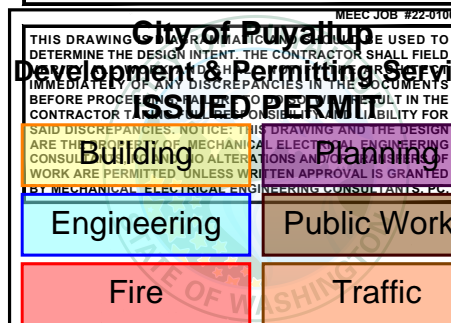
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**SANITARY WASTE AND VENT ISOMETRIC**

N.T.S.  
NOTE: NUMBER IN PARENTHESIS INDICATES DRAINAGE FIXTURE UNITS.

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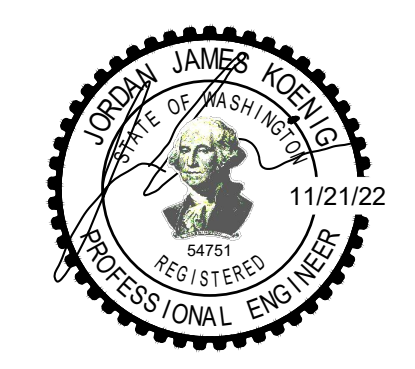
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project: Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
sheet title: Sanitary Waste Isometrics

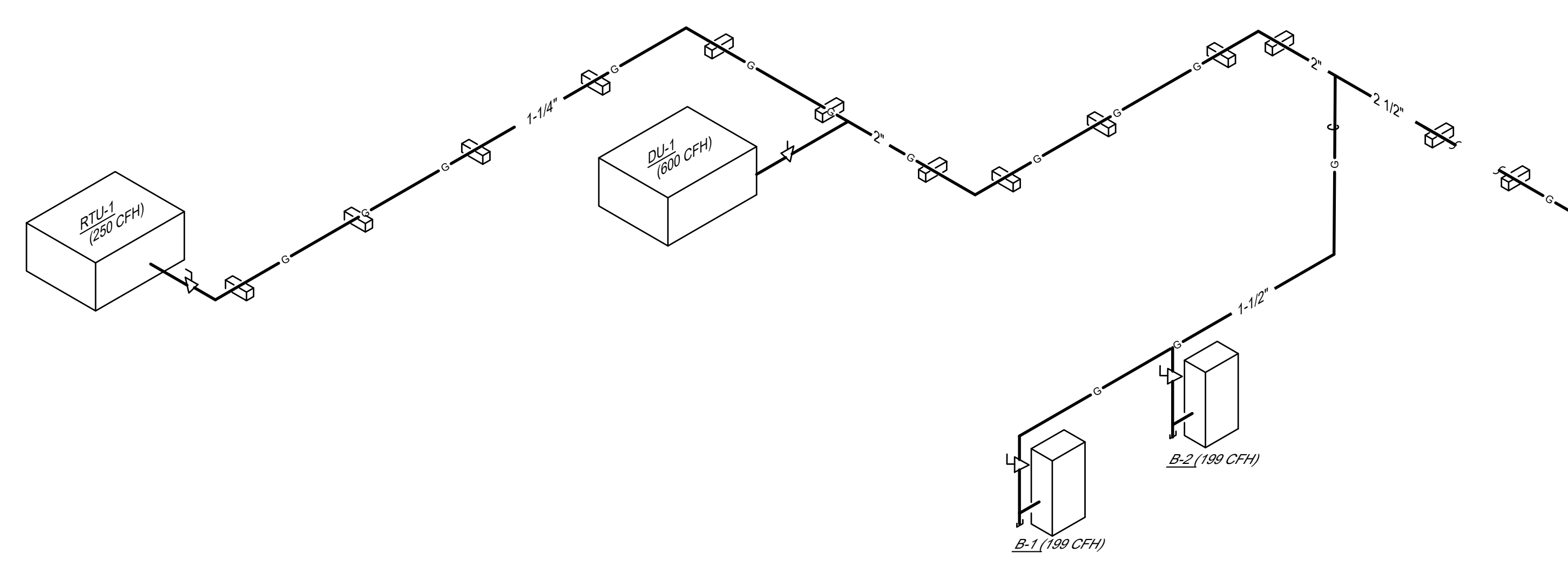
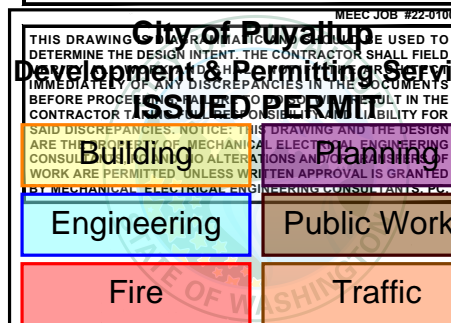


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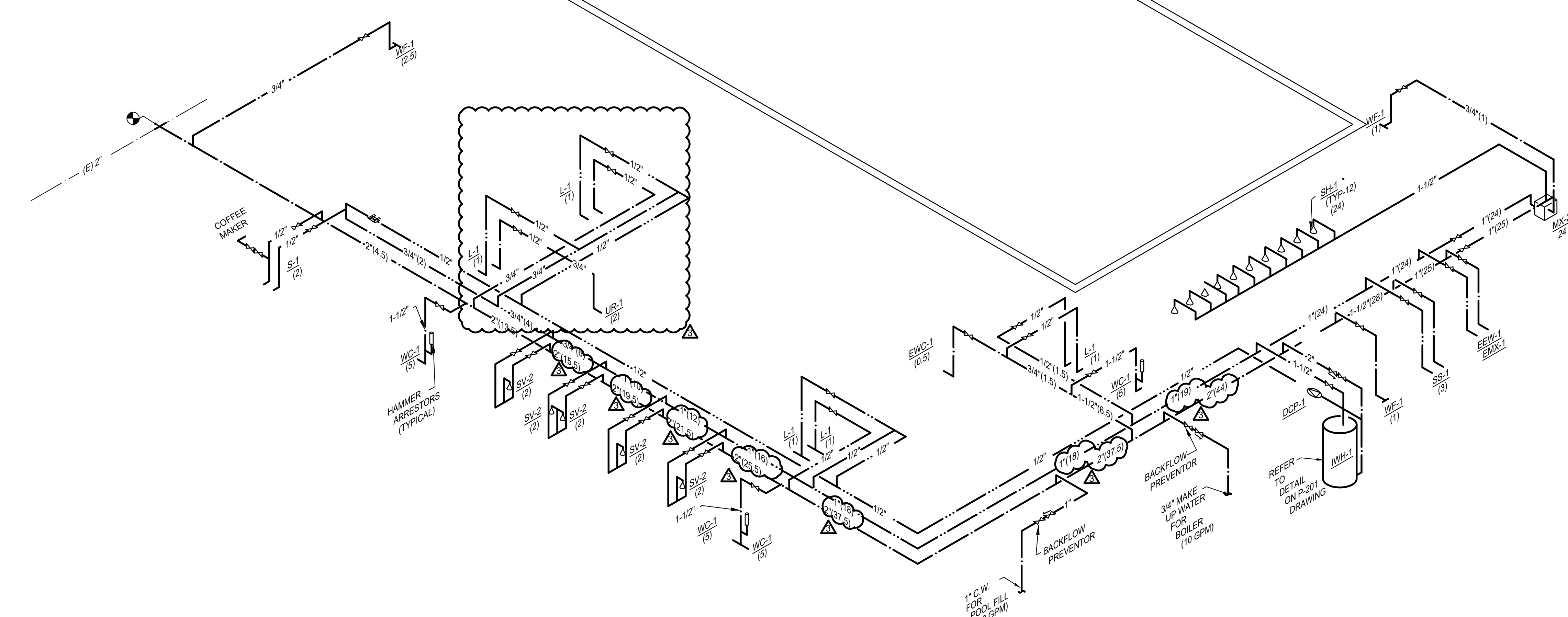


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**NATURAL GAS ISOMETRIC**  
 N.T.S.

NEW NATURAL GAS METER 1,250 CFH AT 7" WC PRESSURE  
 MAXIMUM DEVELOPED LENGTH OF 175' AND A MAX PRESSURE DROP OF 5" WC.  
 UTILITY COMPANY SHUT OFF VALVE



**DOMESTIC WATER ISOMETRIC**  
 N.T.S.  
 NOTE: NUMBER IN PARENTHESIS INDICATES FIXTURE UNITS.

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drawn by **Z.S.** checked by **W.V.**

project: Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373  
 sheet title: Natural Gas and Domestic Water Isometrics

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job number 22006 sheet number P.303

**PRCTI20221793**





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City of Puyallup  
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 Engineering Public Works  
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Client  
 Goldfish Swim School  
 H&H Swim School  
 Puyallup, WA  
 F.A. #272

Brand Standards  
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issue / revision date  
 11-18-22 DOH Review  
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 02-09-23 City Review Comments  
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 02-09-23 Elect. Review Comments

drawn by **Z.S.** checked by **W.V.**

Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373  
 project: Mechanical - New Work Plan  
 sheet title:

**dma**  
 DORCHEN / MARTIN  
 Dorchen/Martin Associates, Inc.  
 Architects/Planners  
 23995 Greenfield Rd., Suite 107  
 Southfield, Michigan 48076  
 (248) 557-1062  
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job number 22006 sheet number M.101

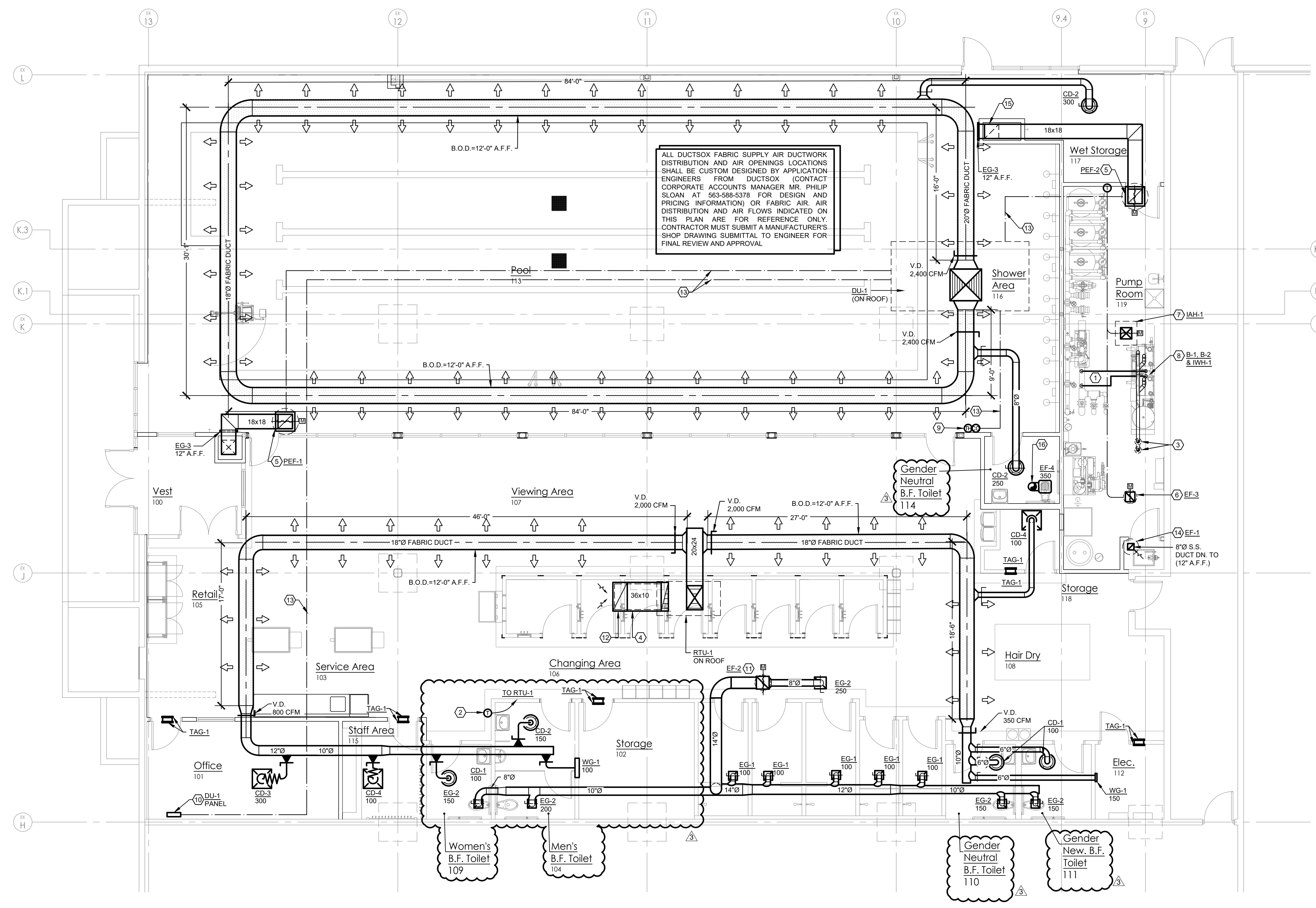
**GENERAL NOTES:**

- OVERHEAD RACK SYSTEM BY GENERAL CONTRACTOR.
- FOR DUCT INSULATION REFER TO INSULATION SCHEDULE ON DRAWING M302.
- COORDINATE DUCTWORK WITH LIGHTING.
- MECHANICAL AND ELECTRICAL SUBS NEEDS TO LAYOUT AND RESOLVE DIFFERENCES ON SITE PRIOR TO INSTALL.

**KEY NOTES:** (A)

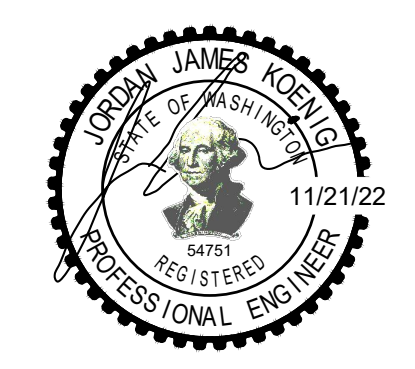
- 2-1/2" HOT WATER PIPING DOWN TO POOL EQUIPMENT PIPING. SEE POOL EQUIPMENT SUPPLIER DRAWINGS. INSTALL BLUE-WHITE FLOW METER F-3000 WITHIN FIRST 10'-0" OF INLET.
- NEW HONEYWELL RTH9585WF1004 WI-FI SMART PROGRAMMABLE THERMOSTAT. COORDINATE FINAL INSTALLED LOCATION WITH OWNER.
- MECHANICAL CONTRACTOR SHALL PROVIDE (2) SETS OF 3"Ø PVC COMBUSTION AIR & FLUE PIPING TO (2) CONCENTRIC VENTS THROUGH ROOF. VENT PER MANUFACTURER'S RECOMMENDATIONS AND INSTALL A MINIMUM OF 10'-0" FROM ANY OUTDOOR AIR INTAKE OPENING ON ROOF.
- 32"x16" RETURN AIR WITH 1" ACOUSTIC DUCT LINER.
- 18"x18" EXHAUST AIR DUCTWORK UP TO EXHAUST FAN ON ROOF.
- 12"x12" EXHAUST AIR DUCTWORK UP TO EXHAUST FAN ON ROOF.
- 12"x12" OUTDOOR AIR DUCT UP TO INTAKE AIR HOOD ON ROOF. PROVIDE MOTORIZED DAMPER AND INTERLOCK WITH EXHAUST FAN EF-3. REFER TO DUCTWORK INSULATION SCHEDULE ON M.302.
- 32"x16" RETURN AIR WITH 1" ACOUSTIC DUCT LINER.
- 18"x18" EXHAUST AIR DUCTWORK UP TO EXHAUST FAN ON ROOF.
- 12"x12" EXHAUST AIR DUCTWORK UP TO EXHAUST FAN ON ROOF.
- 12"x12" OUTDOOR AIR DUCT UP TO INTAKE AIR HOOD ON ROOF. PROVIDE MOTORIZED DAMPER AND INTERLOCK WITH EXHAUST FAN EF-3. REFER TO DUCTWORK INSULATION SCHEDULE ON M.302.
- TEMPERATURE AND HUMIDITY SENSOR FOR THE DU-1 SHOULD BE MOUNTED 5'-0" ABOVE FINISH FLOOR.
- POOL UNIT HUMAN MACHINE INTERFACE (HMI) TO BE INSTALLED IN MANAGER'S OFFICE. HMI SHALL CONTROL THE SYSTEM ON/OFF, AND DISPLAY MAINTENANCE ALERTS AND FAULTS AS NEEDED.
- 16"x16" EXHAUST AIR DUCTWORK UP TO EXHAUST FAN ON ROOF.
- TURN DUCT UP 4" AND PROVIDE WITH 16 GAUGE 1"x1" WIRE MESH SCREEN ON END.
- LOW VOLTAGE INTERLOCK WIRING.
- 18"Ø SCHEDULE 40 PVC WITH S.S. BOOT EXHAUST AIR DUCTWORK UP TO 8"x8" CONNECTION TO EXHAUST FAN LOCATED ON ROOF. PROVIDE AN AIRFLOW SWITCH IN THE EXHAUST DUCTWORK AND WIRE IT TO ALARM IN THERE IS NO AIRFLOW.
- 18"x18" E.A. DUCT DOWN IN SHAFT.
- 10"Ø E.A. DUCT UP THROUGH ROOF.

ALL DUCTS/FABRIC SUPPLY AIR DUCTWORK DISTRIBUTION AND AIR OPENINGS LOCATIONS SHALL BE CUSTOM DESIGNED BY APPLICATION ENGINEERS FROM DUCTSOX (CONTACT CORPORATE ACCOUNTS MANAGER MR. PHILIP SLOAN AT 563-588-5378 FOR DESIGN AND PRICING INFORMATION) OR FABRIC AIR DISTRIBUTION AND AIR FLOWS INDICATED ON THIS PLAN ARE FOR REFERENCE ONLY. CONTRACTOR MUST SUBMIT A MANUFACTURER'S SHOP DRAWING SUBMITTAL TO ENGINEER FOR FINAL REVIEW AND APPROVAL.



Mechanical - New Work Plan  
 3/16" = 1'-0"

PRCTI20221793



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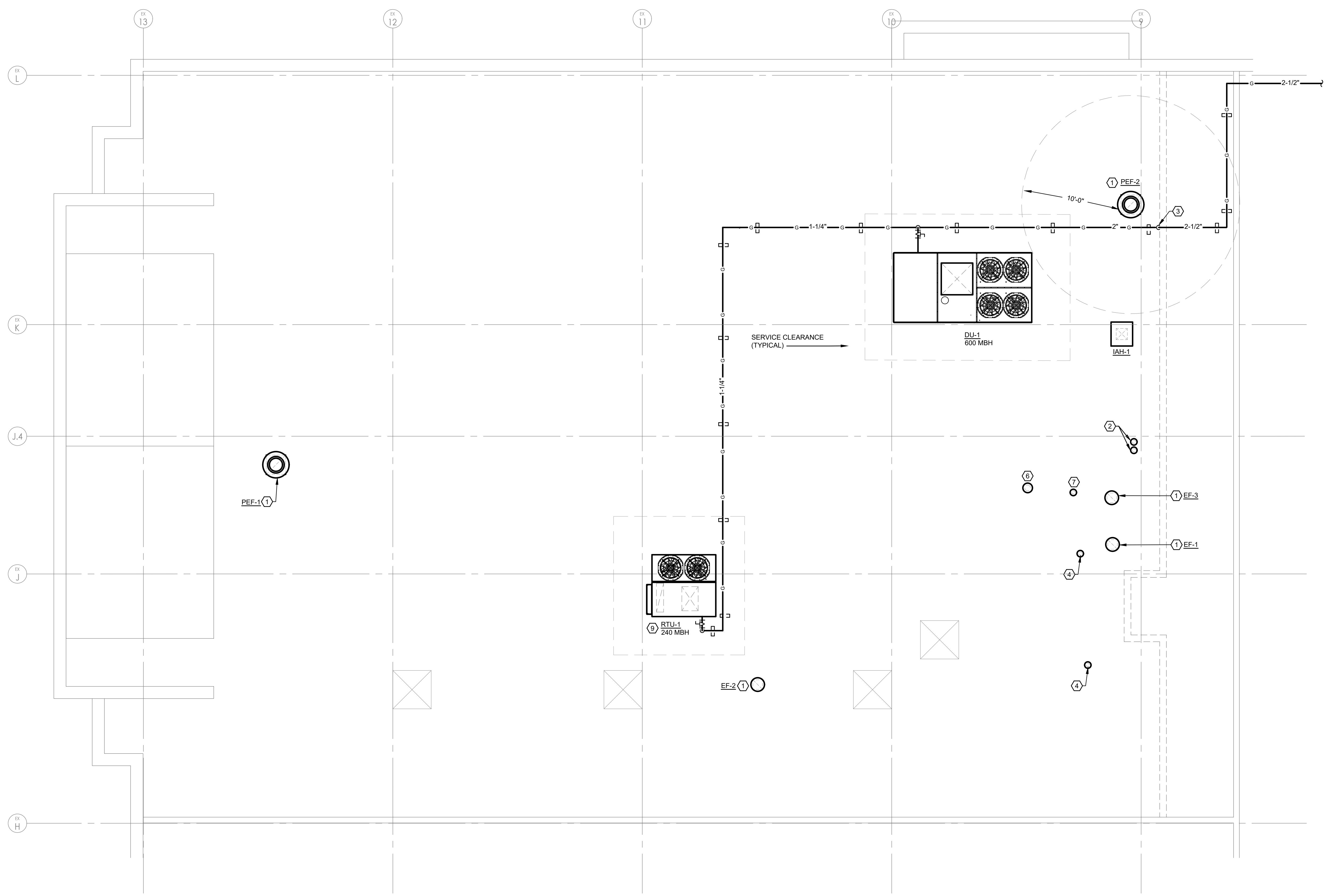
drawn by <b>Z.S.</b>	checked by <b>W.V.</b>
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Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373

Roof - Mechanical Plan  
 sheet title:

**dma**  
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 Southfield, Michigan 48076  
 (248) 557-1062  
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job number 22006	sheet number M.102
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**KEY NOTES:**

- INSTALL EXHAUST FAN AT A MINIMUM OF TEN FEET FROM ANY ROOFTOP UNIT'S FRESH AIR INTAKE OPENING. USE EXISTING FAN CURB AND ROOF PENETRATION.
- BOILER CONCENTRIC VENT. INSTALL PER DETAIL ON DRAWING M.201 AND AT A MINIMUM OF 10'-0" FROM ALL INTAKE AIR HOODS.
- 1-1/2" NATURAL GAS DOWN. REFER TO DRAWING P.102 FOR CONTINUATION.
- 3" SANITARY VENT THROUGH ROOF. INSTALL AT A MINIMUM OF TEN FEET FROM ANY OUTDOOR AIR INTAKE HOOD.
- NATURAL GAS PIPE SUPPORT. REFER TO DETAIL ON DRAWING P.201 FOR SPACING REQUIREMENT.
- 10" TOILET ROOM EXHAUST DUCT WITH RAIN CAP. TERMINATE AT A MINIMUM OF 24" OFF ROOF.
- 2" HYDROGEN VENT FROM CHLORKING. COORDINATE DETAILS WITH POOL EQUIPMENT SUPPLIER.
- 4" SANITARY VENT THROUGH ROOF. INSTALL AT A MINIMUM OF TEN FEET FROM ANY OUTDOOR AIR INTAKE HOOD.
- NEW ROOF TOP UNIT. UTILIZE EXISTING ROOF TOP UNIT SUPPORTS AND ROOF PENETRATION.

Roof - Mechanical Plan  
 3/16" = 1'-0"

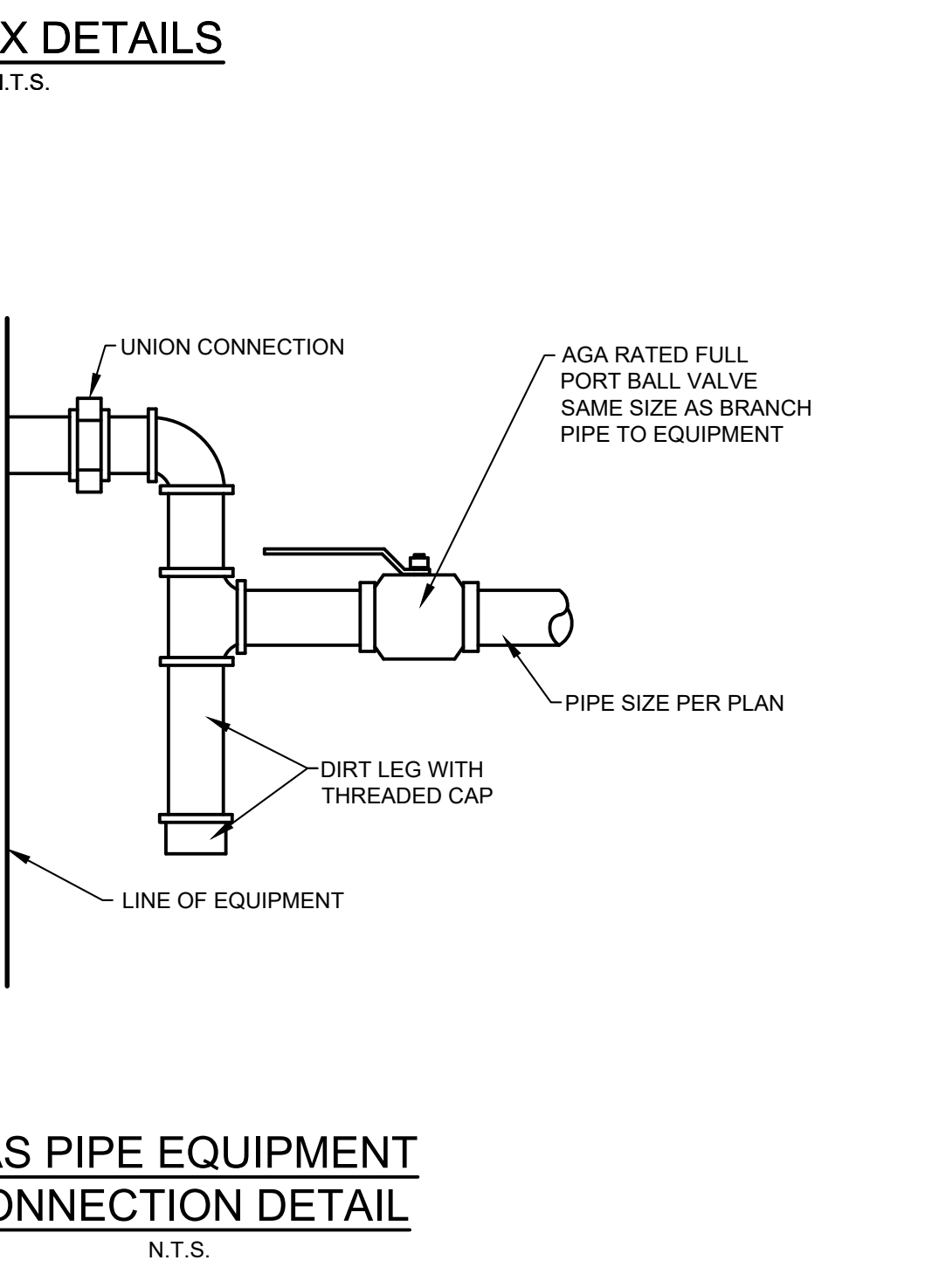
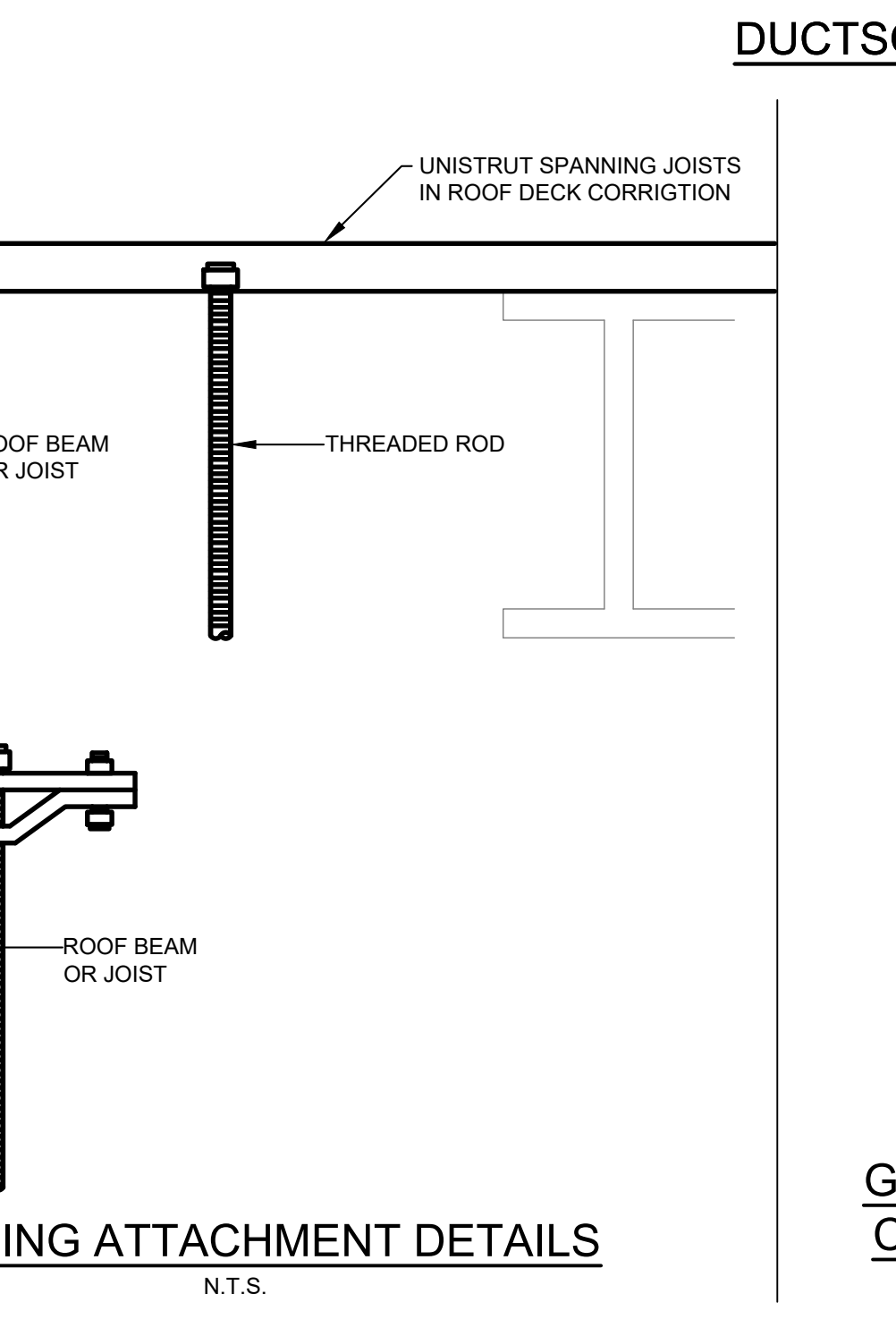
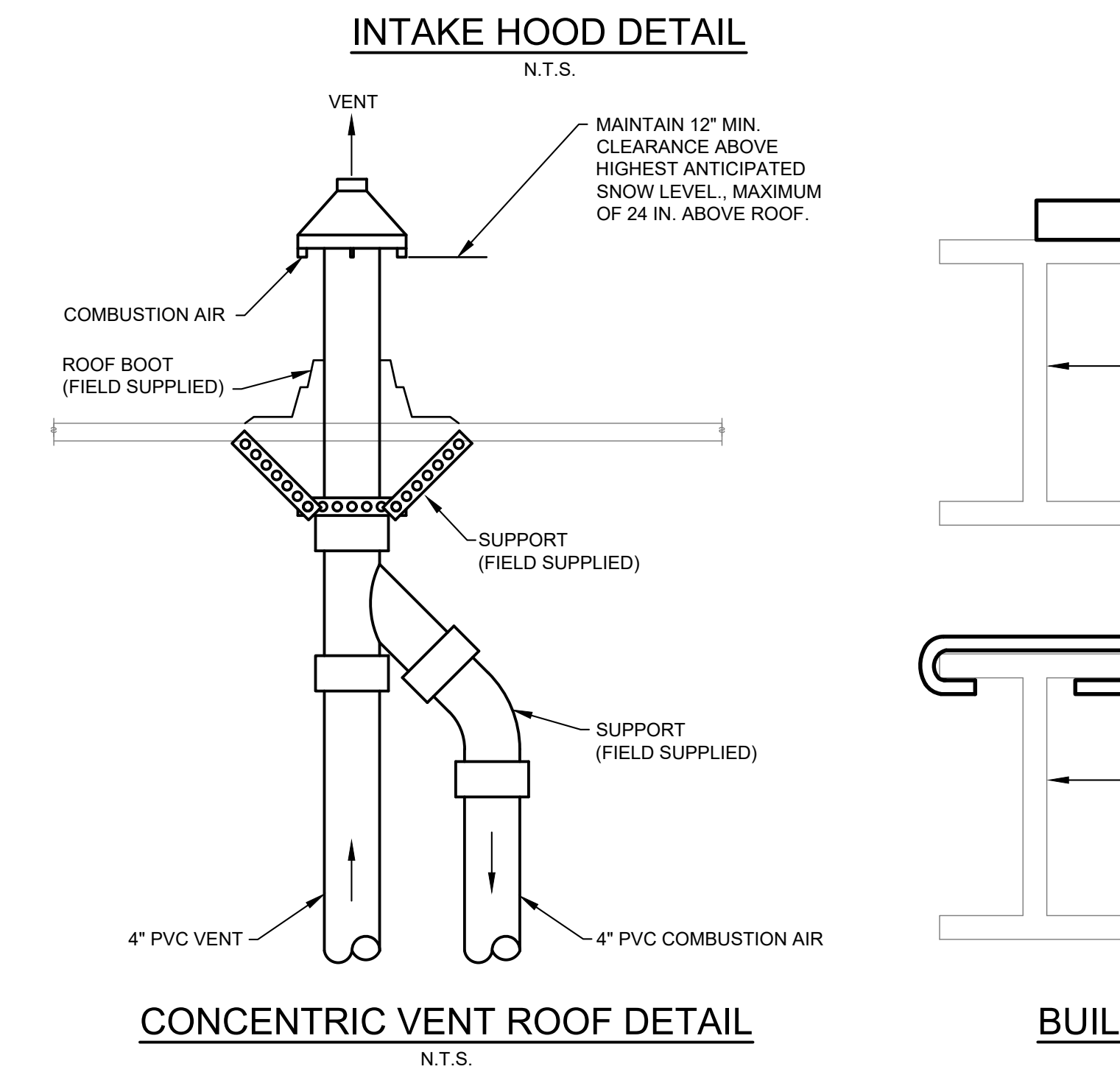
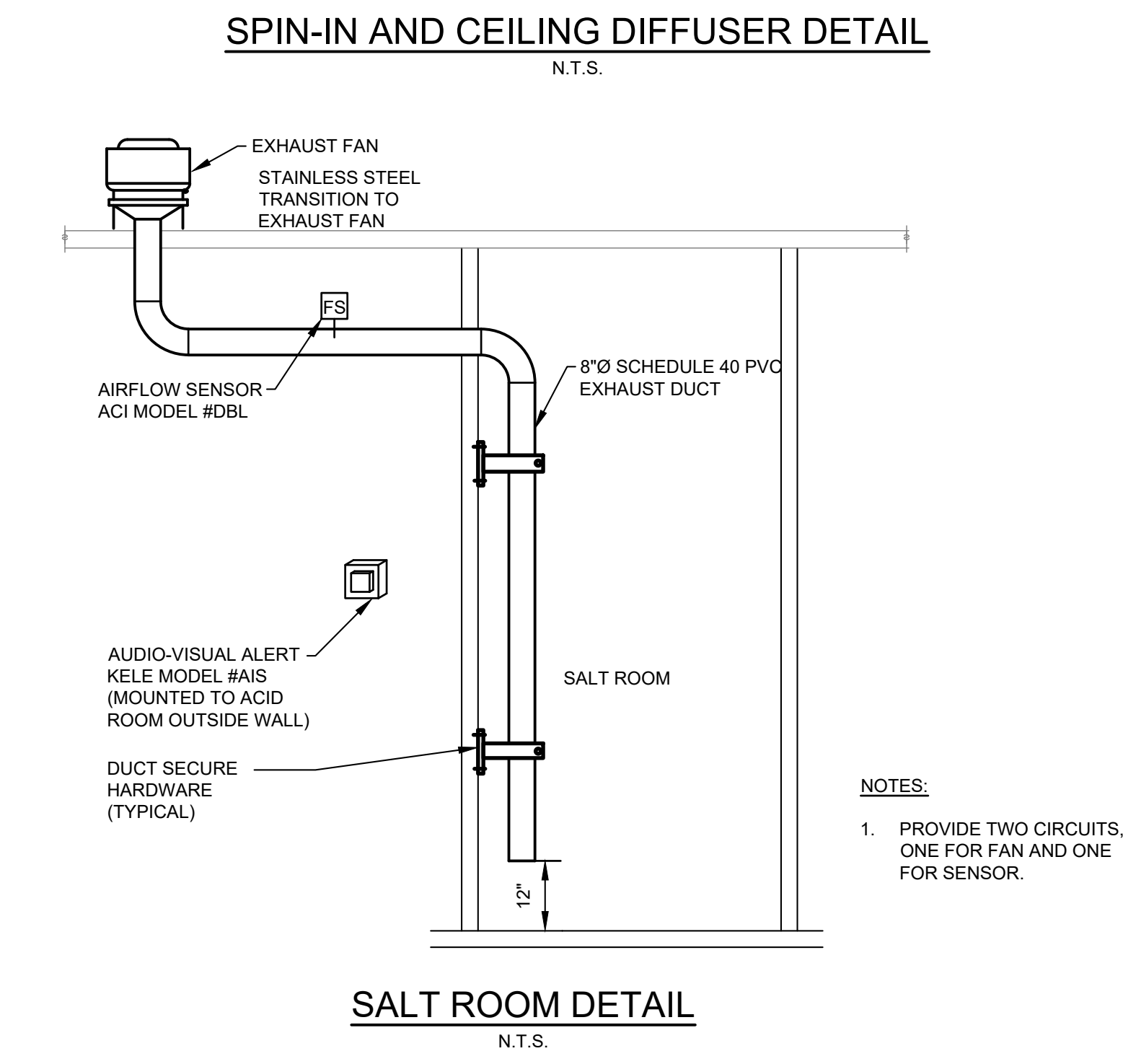
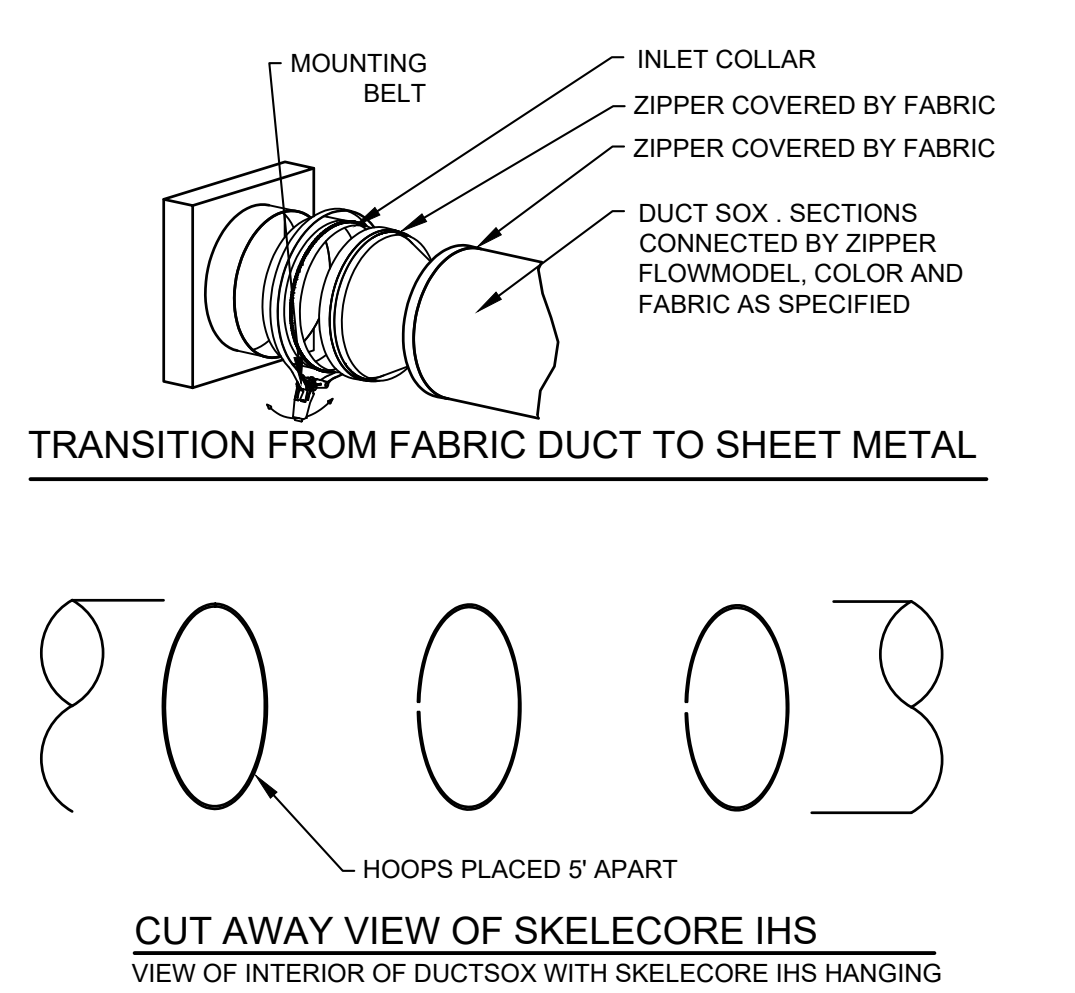
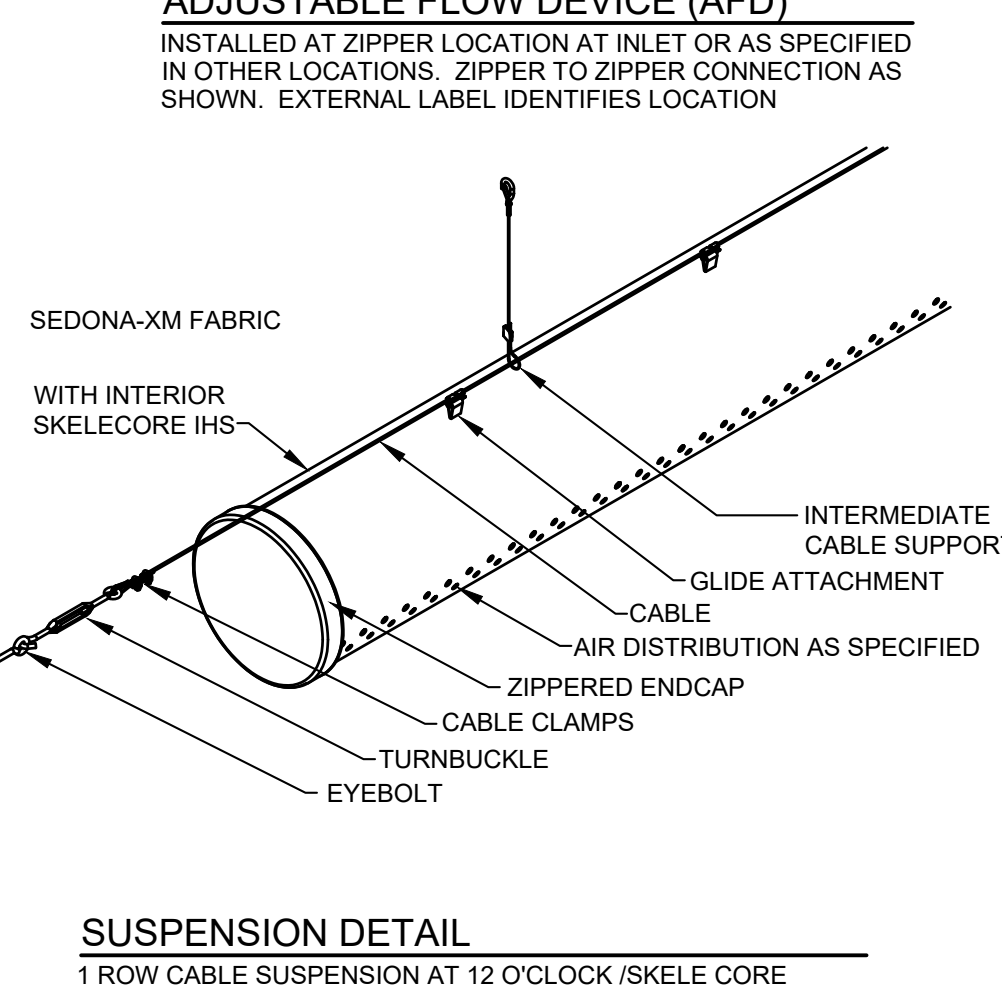
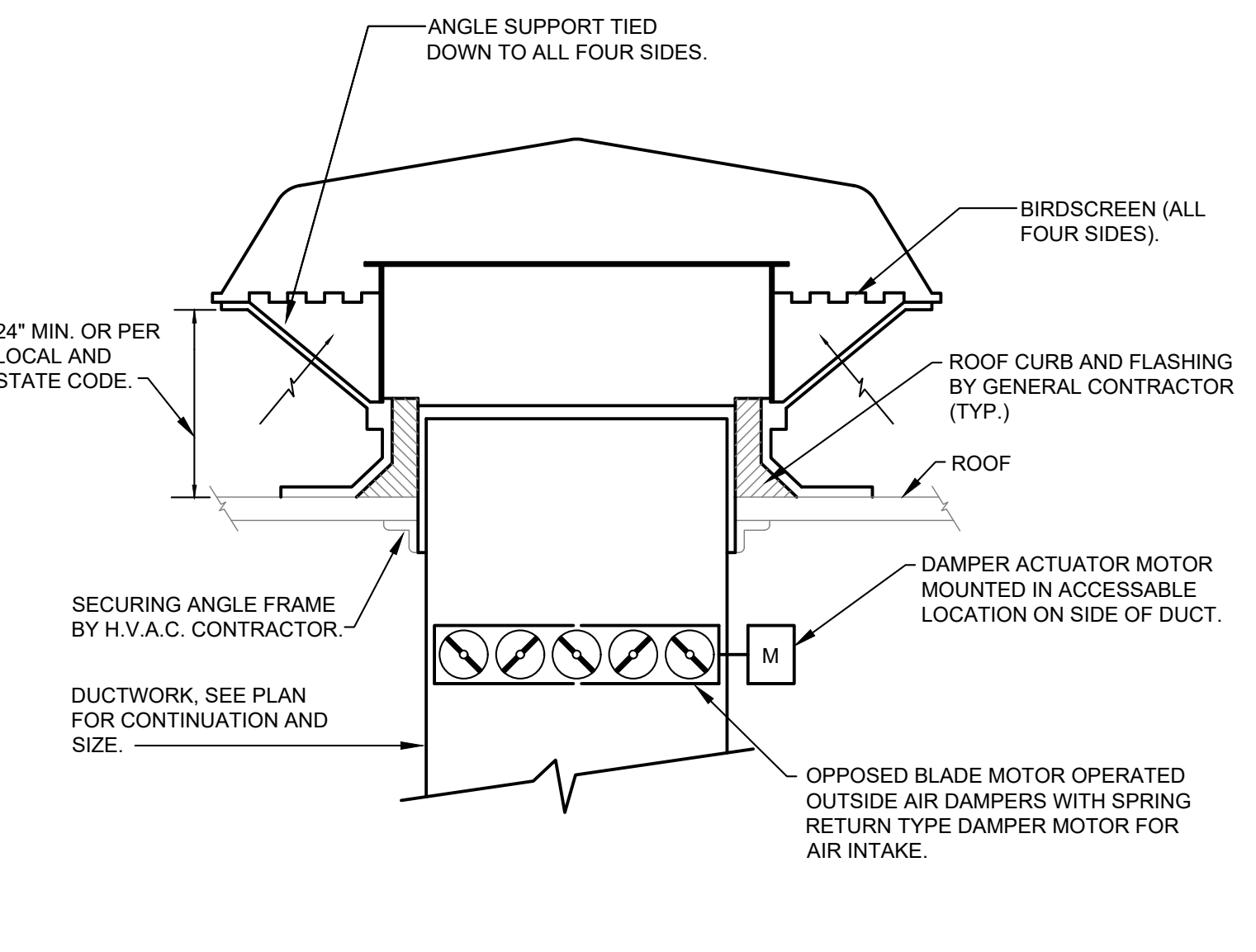
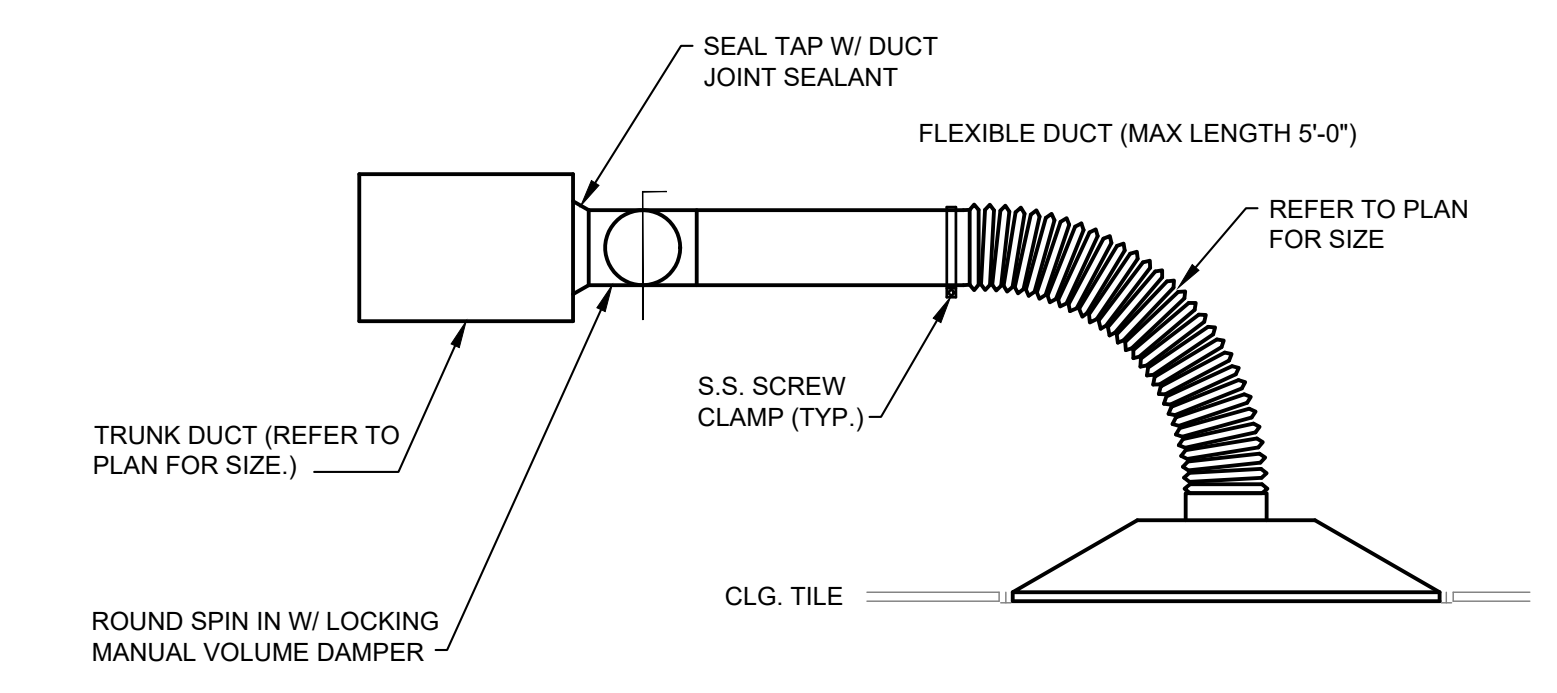
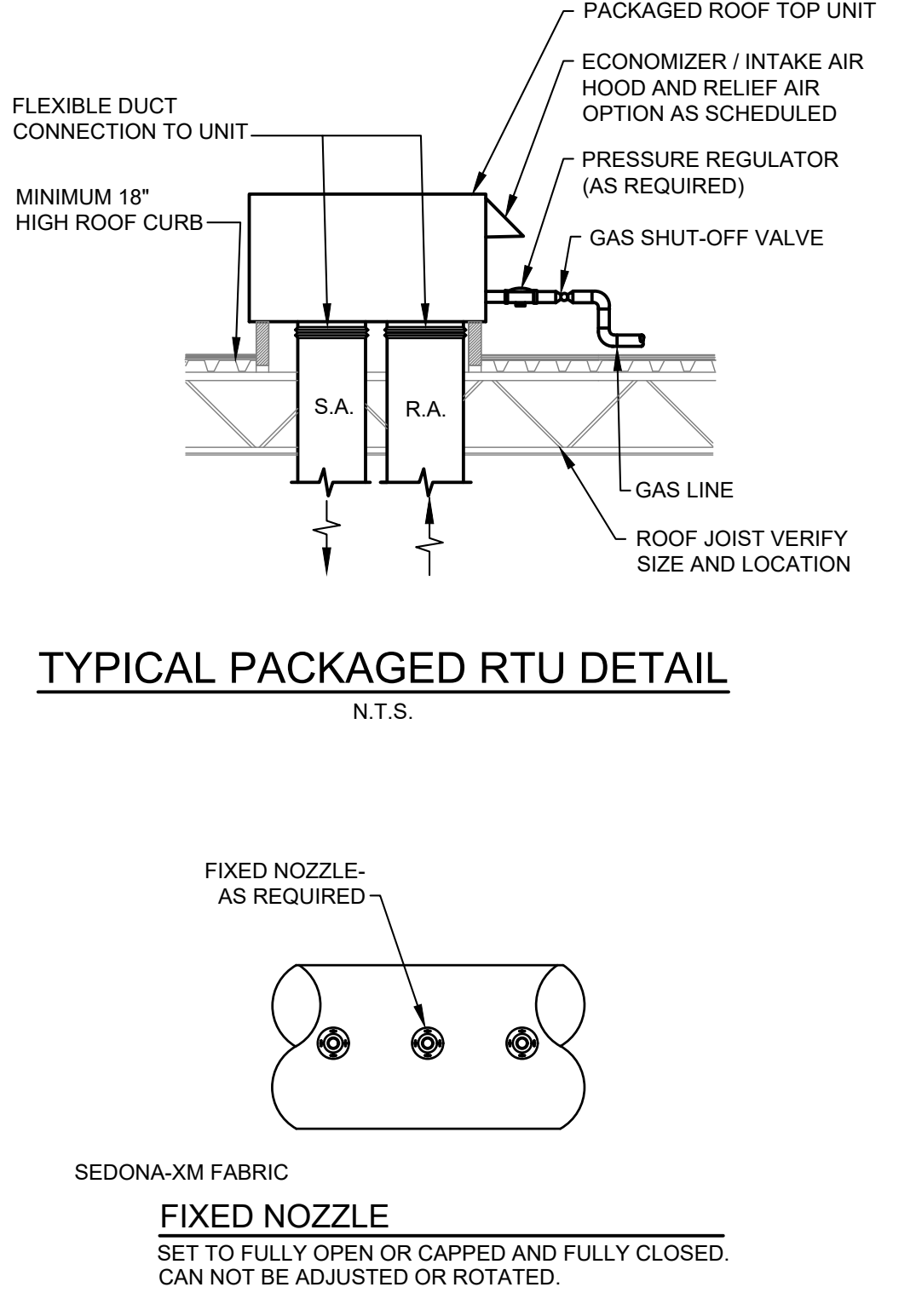
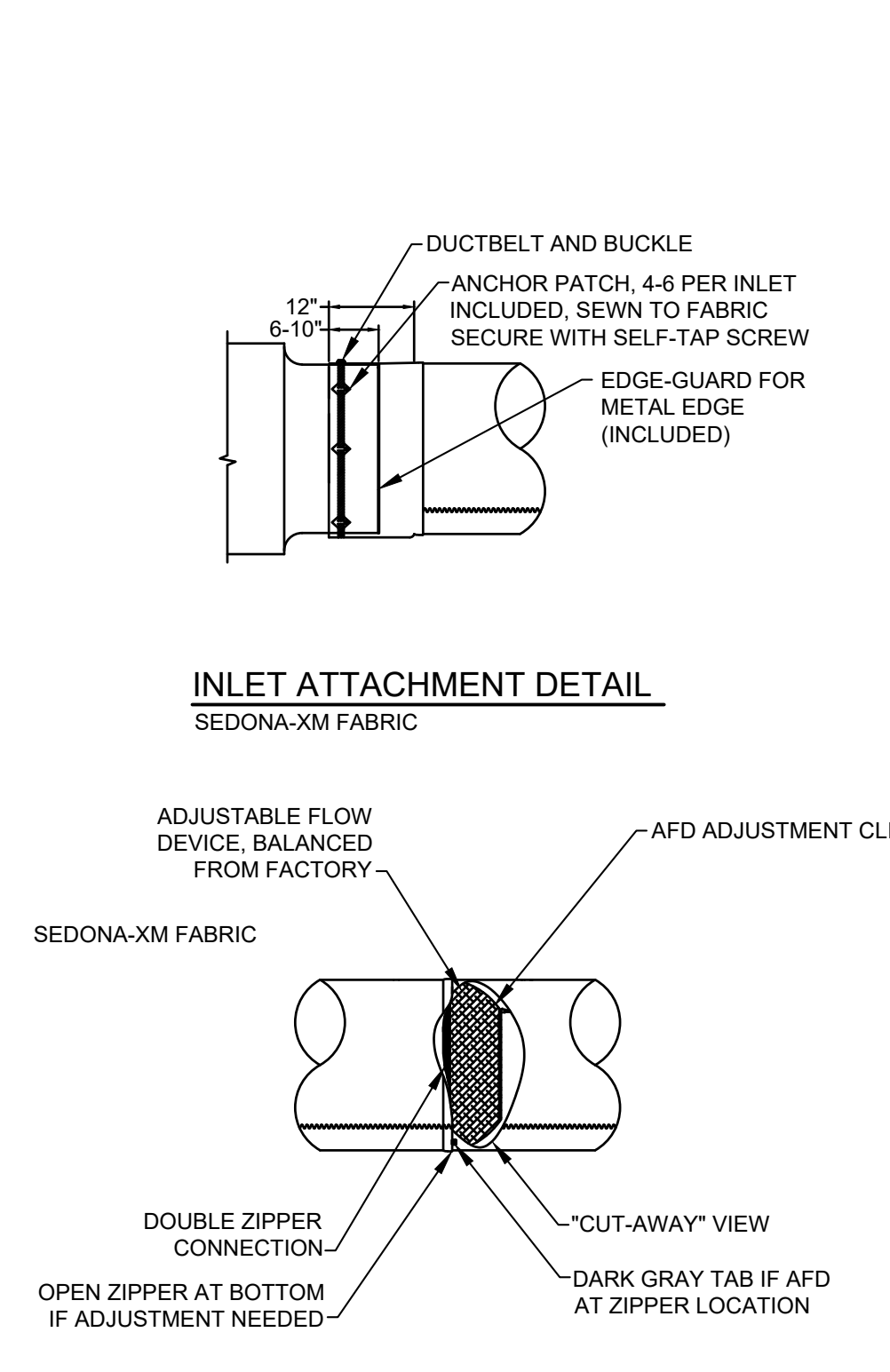
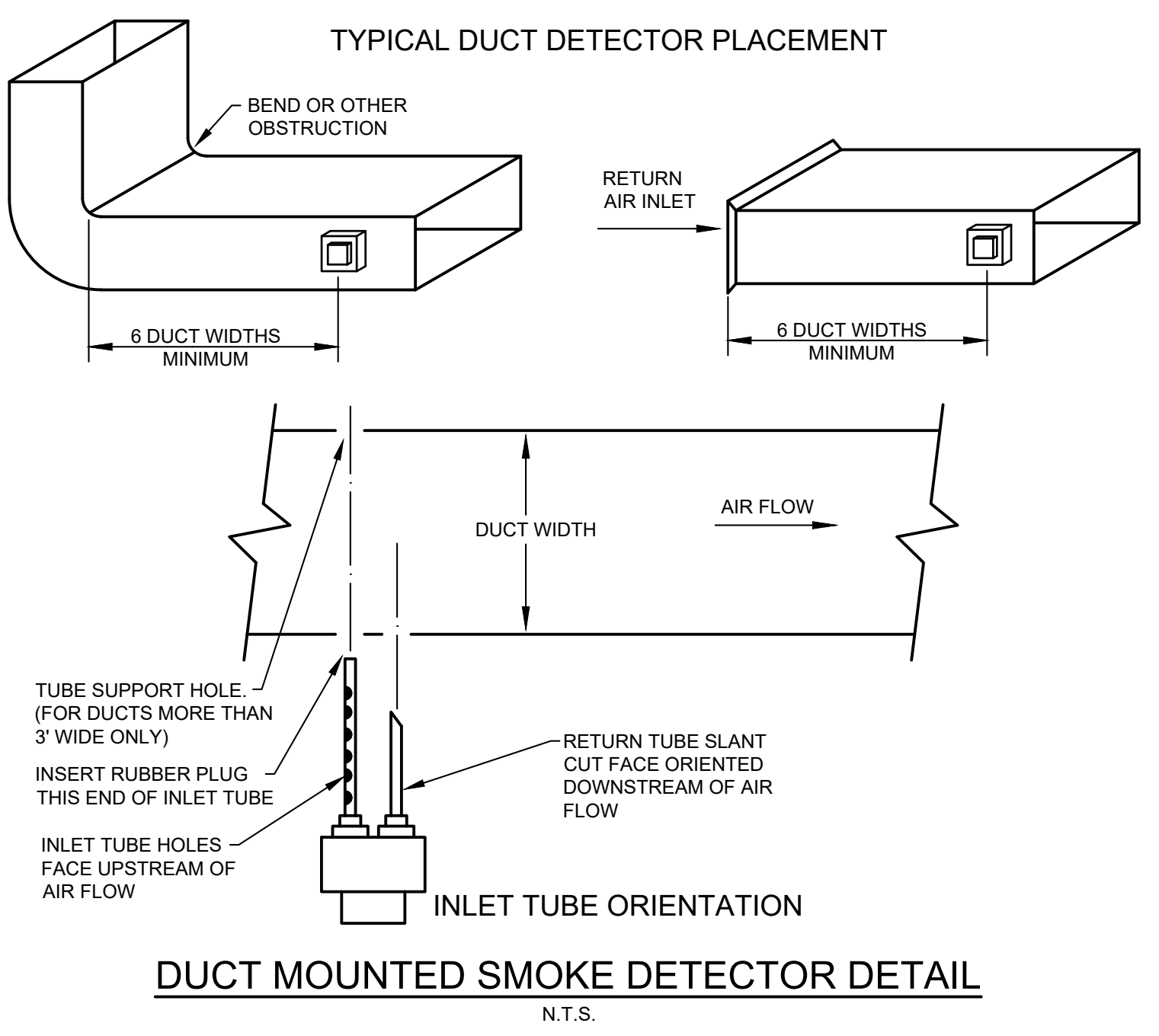
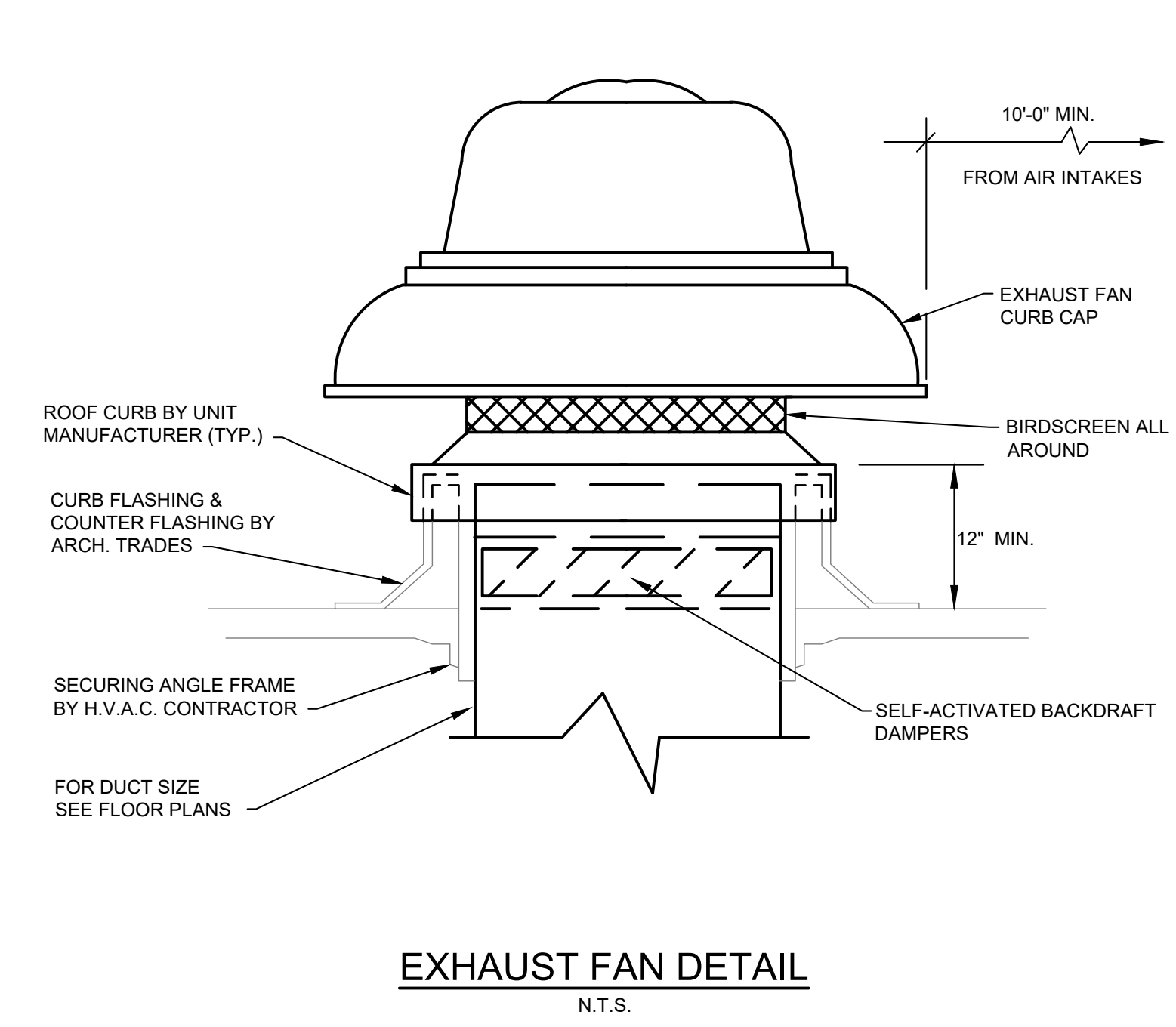
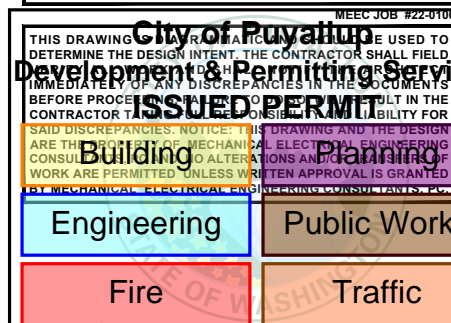
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Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
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drawn by **ZS.** checked by **W.V.**

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
project: sheet title:

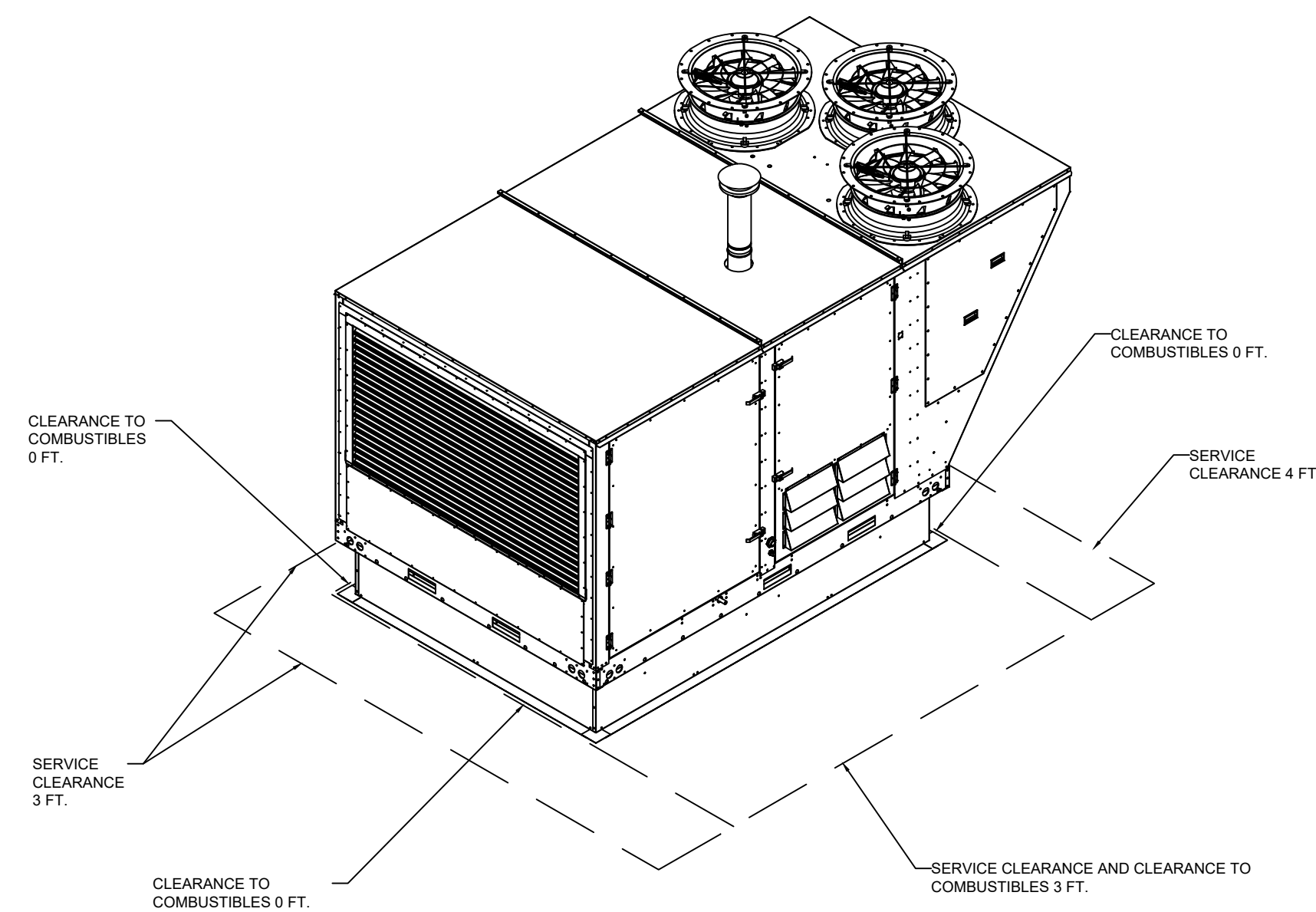
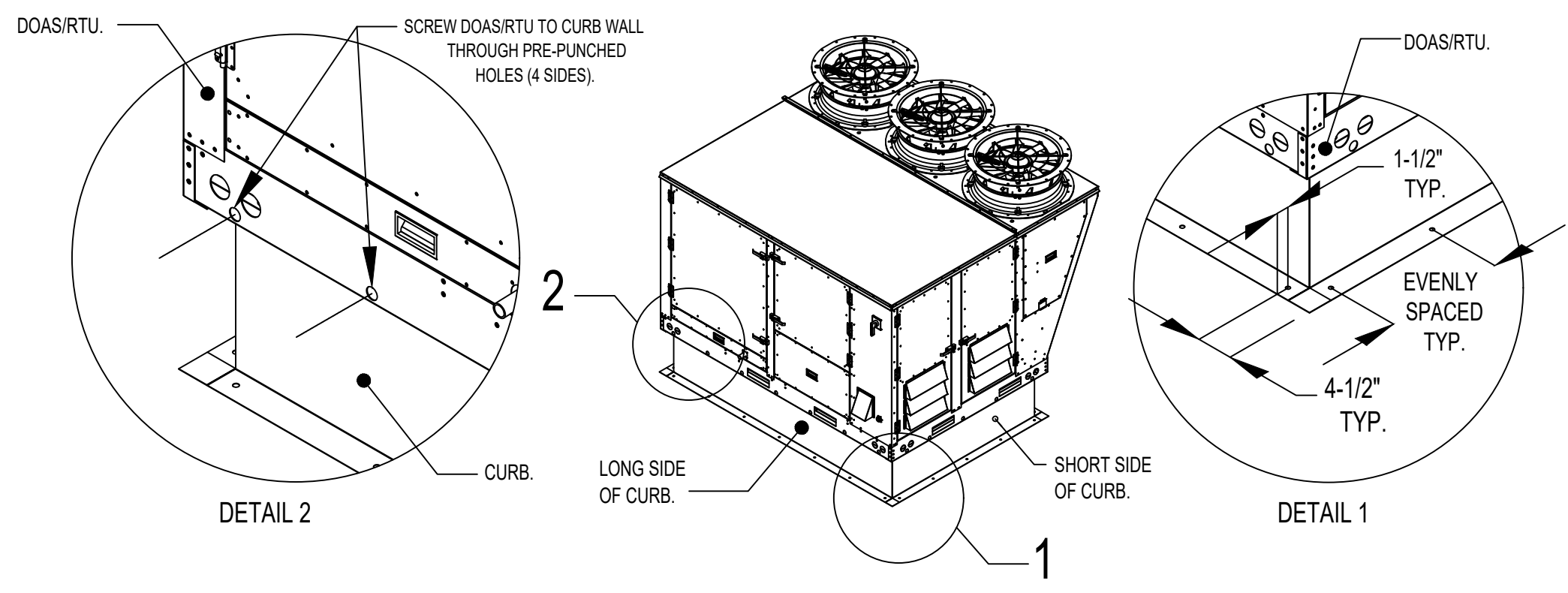
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job number 22006 sheet number M.201

PRCTI20221793

# TYPICAL DOAS / DU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.
2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4" X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



**\*\*\* NOTE \*\*\***  
Contractor must field install factory supplied discharge air sensor at least 6' into the supply duct

**\*\*\* NOTE \*\*\***  
HMI to be installed in manager's office. Temperature/humidity sensor to be installed INSIDE pool room

### POOL EXHAUST FAN SEQUENCE OF OPERATIONS:

POOL EXHAUST FANS ARE TO BE INTERLOCKED WITH POOL UNIT(S). THEY CAN BE SET UP TO MODULATE FROM 80-100% OF DESIGN AIRFLOW SHOWN AS DETERMINED BY SPACE RELATIVE HUMIDITY.

IN THE EVENT OF A CO ALARM, THE EXHAUST FANS WILL SHUT DOWN WITH THE POOL UNIT, AND AN ALERT WILL BE SENT TO THE POOL UNITS HMI AND THE CASLINK BUILDING MANAGEMENT SYSTEM TO NOTIFY THE OPERATOR.

### ATTENTION ELECTRICIAN

POOL EXHAUST FAN(S) ARE TO BE INTERLOCKED WITH POOL UNIT(S). THIS WILL REQUIRE TWO SEPARATE 18/2 WIRES FROM THE POOL EXHAUST FANS TO THE POOL UNIT CONTROLLING IT.

CO DETECTOR(S) ARE SUPPLIED WITH THE SYSTEM, AND WILL BE POWERED FROM THE POOL UNIT. THERE WILL BE ONE DETECTOR PER POOL UNIT IF MULTIPLE POOL UNITS ARE REQUIRED. EACH DETECTOR WILL REQUIRE AN 18/4 WIRE FROM THE POOL UNIT IT IS ASSOCIATED WITH.

A HARD WIRED INTERNET CONNECTION IS REQUIRED AT THE POOL UNIT FOR THE CASLINK BUILDING MANAGEMENT SYSTEM. FOR MULTIPLE POOL UNITS OR ADDITIONAL RTU'S BY CAPTIVEAIRE, THIS CONNECTION CAN BE DAISY CHAINED BETWEEN UNITS.

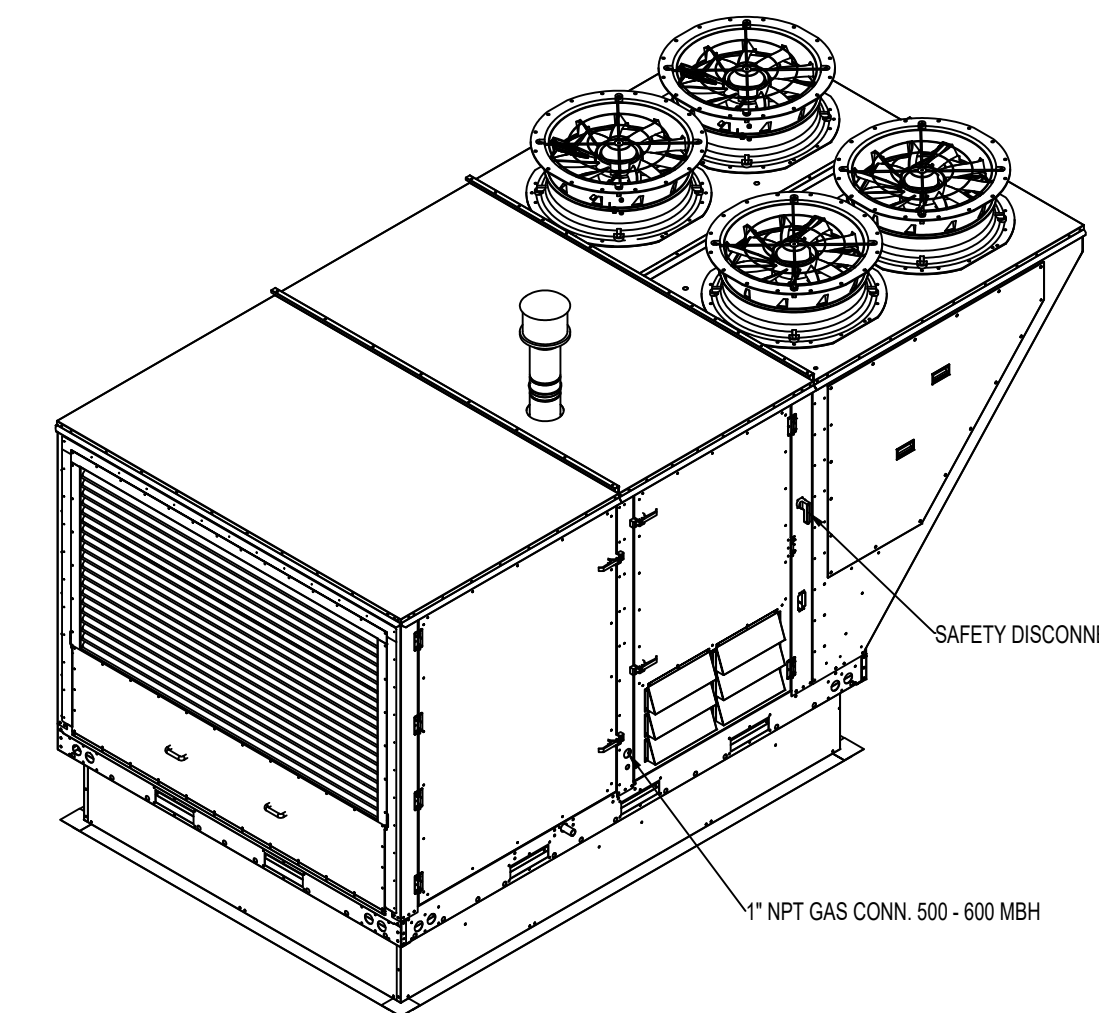
CONSULT WIRING DIAGRAMS AND JOB SITE SPECIFIC SDV CHECKLIST FOR ADDITIONAL WIRING REQUIREMENTS (HIGH AND LOW VOLTAGE).

### FEATURES:

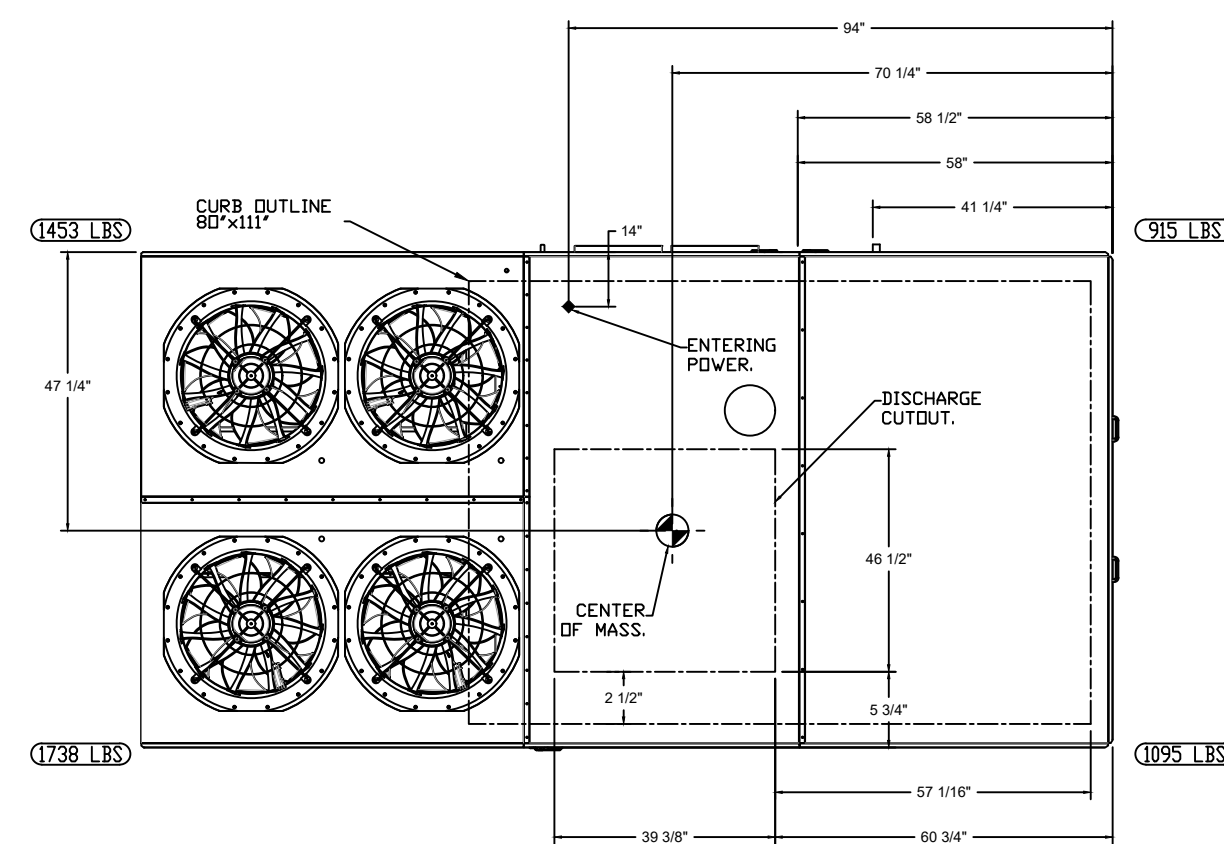
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS.
- UL705.
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- NEMA 3R SAFETY DISCONNECT SWITCH.

### OPTIONS

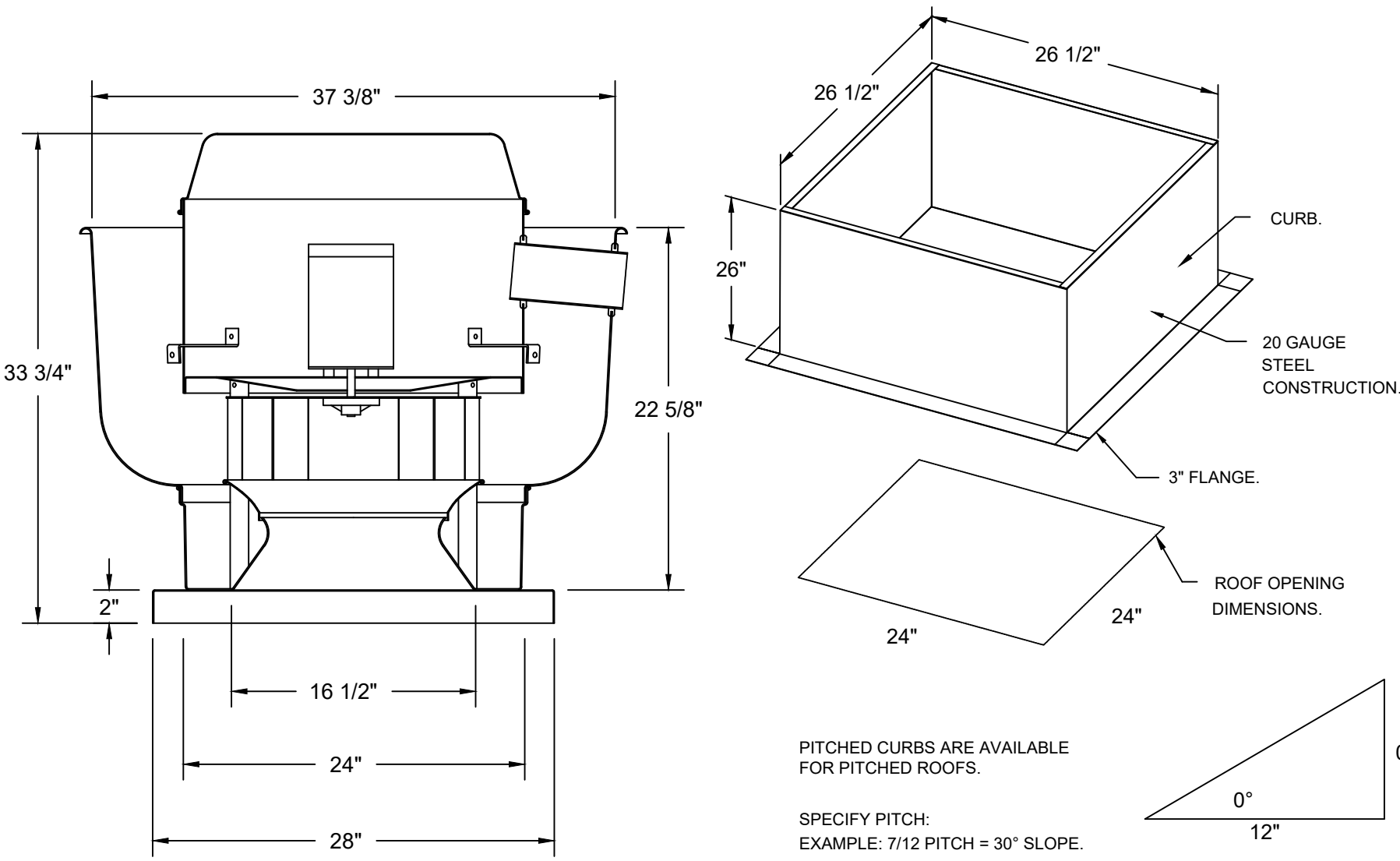
- SCR-18 BIRD SCREEN.
- MOTORIZED 123 BDD 120/240V.
- VAV PACKAGE W/ MANUAL CONTROL (VFD INCLUDED).
- LOAD REACTOR MOUNTED IN FAN.
- VFD FACTORY MOUNTED AND WIRED IN EXHAUST FAN.
- VFD MOUNTING BRACKET FOR DU/DR 180 - 200.
- EXHAUST FAN HEAT BAFFLE.
- 2 YEAR PARTS WARRANTY.



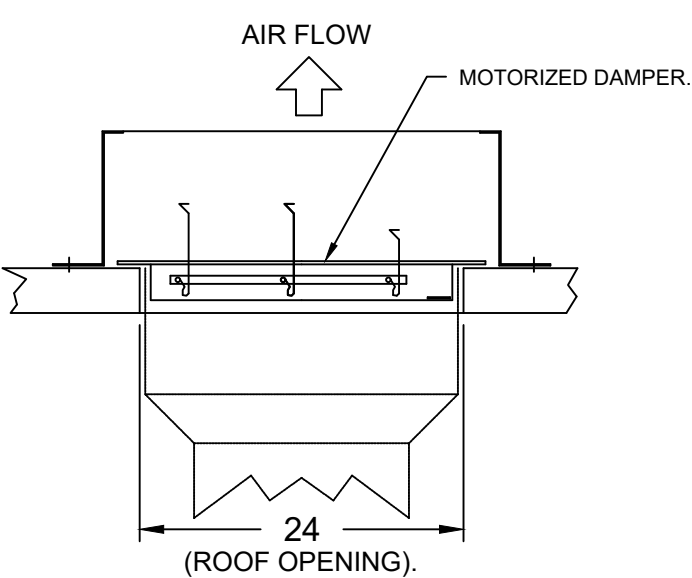
FAN #1 CASRTU4-I.600-20-22T-DU-1



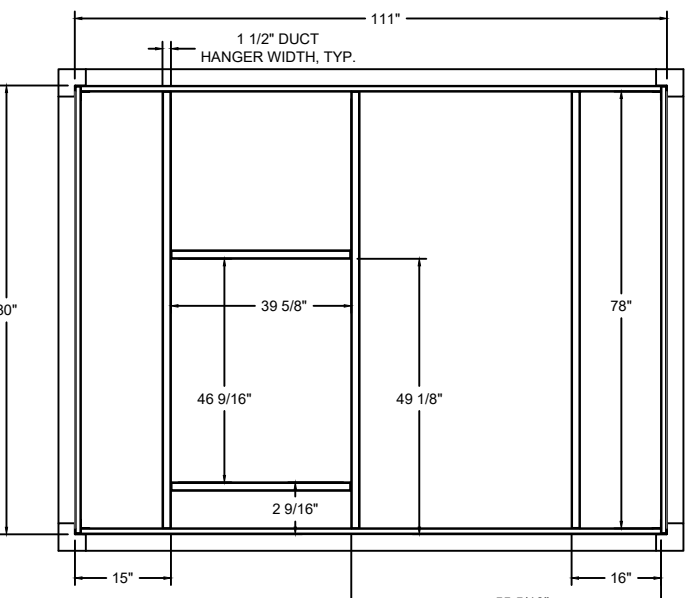
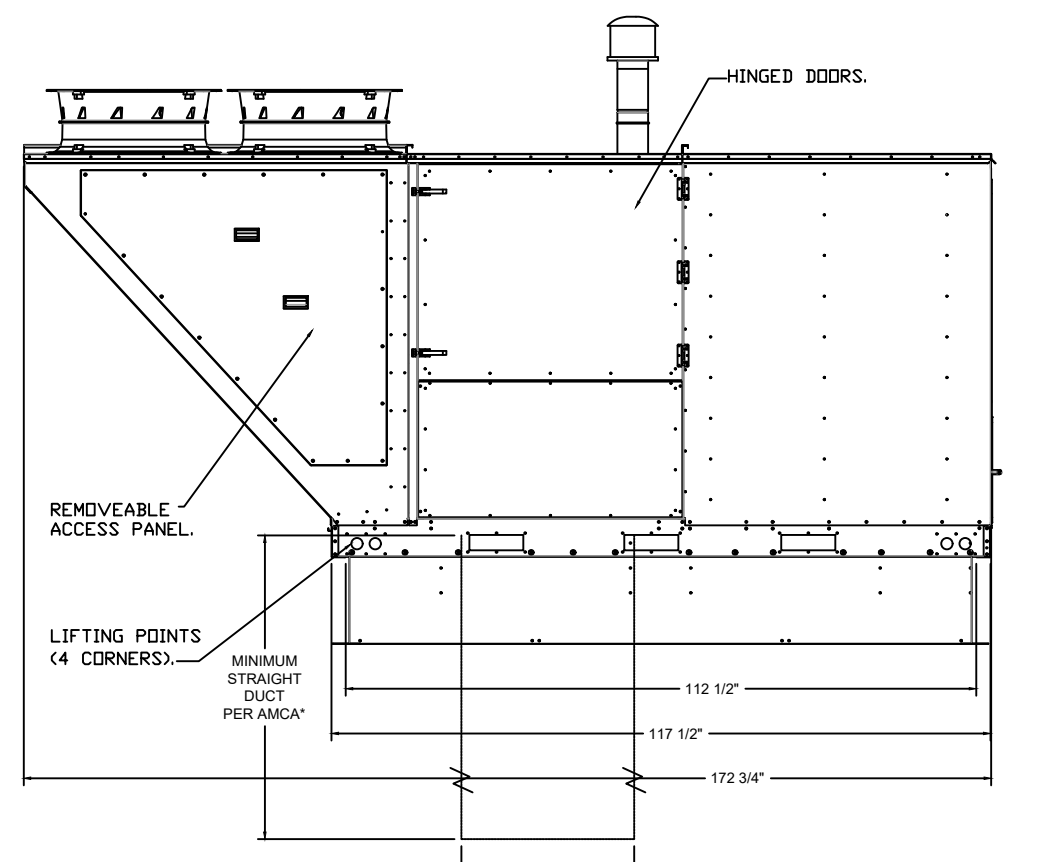
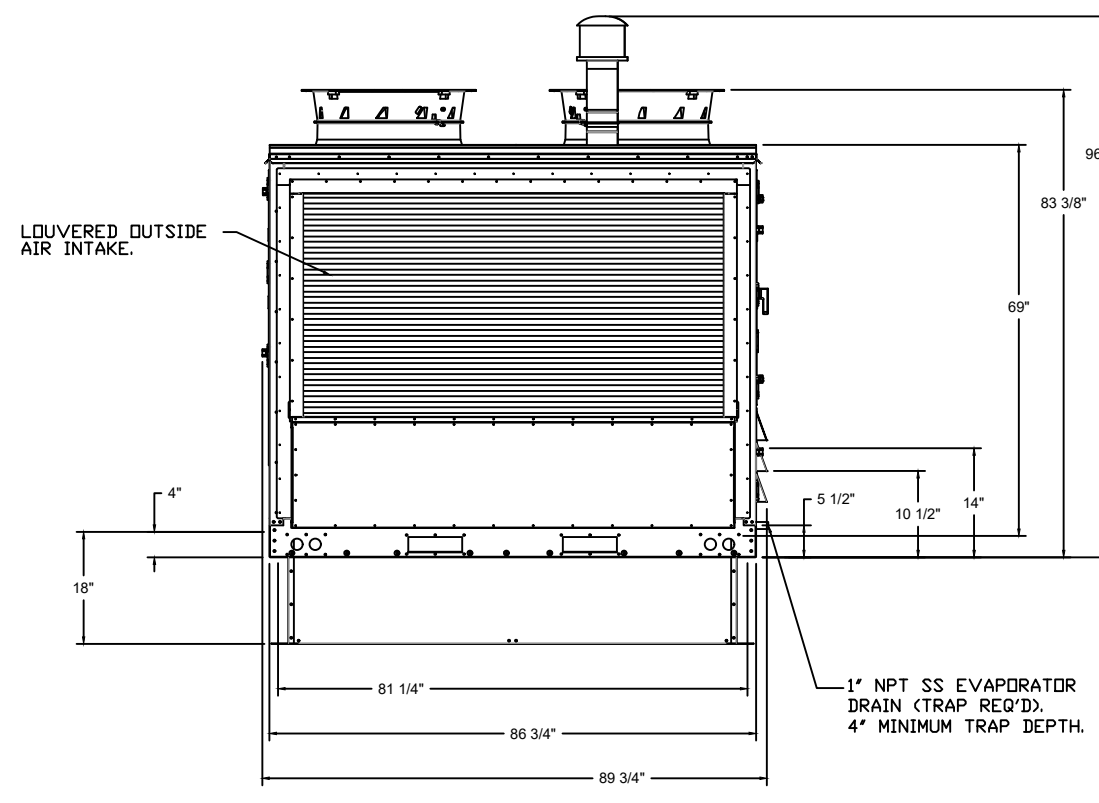
FANS #2 (PEF-1), #3 (PEF-2)



### BACKDRAFT DAMPER INSTALLATION



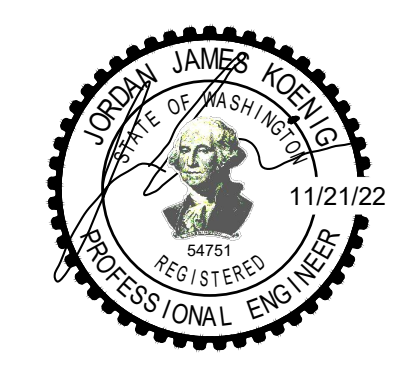
TOP VIEW



- NOTES:
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
  2. DENOTES CORNER WEIGHT.
  3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.

\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 30.875" X 39.75"

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Mechanical Details  
project: sheet title:

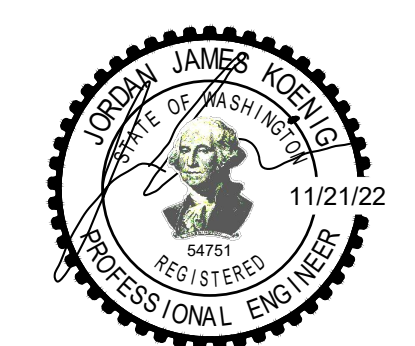
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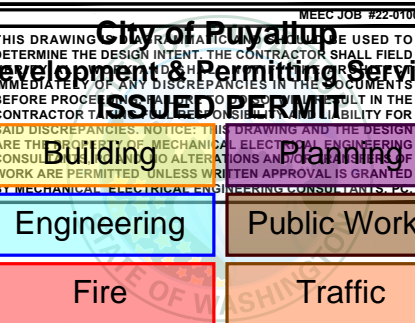


Table: OUTDOOR AIR CALCULATION SCHEDULE. Columns include UNIT TAG, ROOM NAME & NUMBER, TOTAL AREA SQ. FT. (AZ), 2009 MMC OCCUPANCY CLASSIFICATION, AREA OUTDOOR AIRFLOW RATE (Ra), AREA OUTDOOR AIR (Ra) x (Az) CFM, OCCUPANT DENSITY RATE #/1000 S.F., ZONE POPULATION (Pz=Az#/1000) PEOPLE, PEOPLE OUTDOOR AIRFLOW RATE (Rp) CFM/PERSON, OCCUPANT OUTDOOR AIR (Rp) x (Pz) CFM, BREATHING ZONE OUTDOOR AIR (Vbz=RpPz+RaAz) CFM, ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez), ZONE OUTDOOR AIRFLOW REQUIRED (Voz=Vbz/Ez) CFM.

Table: BOILER SKID PACKAGE SCHEDULE (PURCHASED BY B.O. / INSTALLED BY G.C.). Columns include MARK, MANUFACTURER, MODEL NUMBER, BOILER TYPE, UNIT SERVING, FUEL TYPE, FLUID, DESIGN WATER FLOW, INPUT (MBH), OUTPUT (MBH), TURNDOWN RATIO, MAXIMUM PRESSURE, C.A. DIA., VENT DIA., VENT MATERIAL, ENTERING WATER TEMP., LEAVING WATER TEMP., NOTES.

Table: GRILLES REGISTERS AND DIFFUSERS SCHEDULE. Columns include MARK, MANUFACTURER, MODEL NUMBER, NECK SIZE, DIFFUSER SIZE, FINISH, MOUNTING TYPE, CONSTRUCTION, ACCESSORY, NOTES.

NOTES: 1. PROVIDE ALL ACCESSORIES NEEDED TO PROPERLY MOUNT DEVICES.

Table: INTAKE AIR HOOD SCHEDULE. Columns include MARK, MANUFACTURER, MODEL NUMBER, HOOD DIMENSIONS, CURB CAP DIMENSIONS, THROAT DIMENSIONS, INTAKE CFM, STATIC PRESSURE, THROAT AREA (SQ.FT.), THROAT VELOCITY (FPM), NOTES.

NOTES: 1. PROVIDE GALVANIZED BIRDSCREEN - 0.5 IN MESH TYPE. 2. PROVIDE GREENHECK 12" HIGH ROOF CURB GPL-G12. 3. PROVIDE MOTORIZED INTAKE DAMPER.

Table: INSULATION SCHEDULE. Columns include DUCTWORK TYPE/ LOCATION, DUCTWORK INSULATION.

Table: EXHAUST FAN SCHEDULE (SUPPLIED BY B.O. / INSTALLED BY G.C.). Columns include MARK, MANUFACTURER, MODEL NUMBER, AREA SERVED, LOCATION, AIRFLOW (CFM), EXTERNAL S.P., FAN (RPM), FAN (BHP), FAN (HP), ELECTRICAL, NOTES.

NOTES: 1. FAN SHALL HAVE AMCA SEAL & BE U.L. CERTIFIED. 2. FAN SHALL HAVE ALUMINUM BIRD SCREEN. 3. SAFETY DISCONNECT SWITCH (BY ELECTRICAL). 4. PROVIDE DUCT MOUNTED GRAVITY BACKDRAFT. 5. PROVIDE HI-PRO POLYESTER COATING FOR ACID AND CHLORINE RESISTANCE. 6. INTERLOCKED TO RTU-1. 7. FAN CONTROLLED BY ROOM'S LIGHT SWITCH. 8. THERMOSTAT CONTROL. 9. FIVE YEARS WARRANTY. 10. CONTINUOUSLY RUN. 11. PROVIDE MOTORIZED DAMPER PER WSEC C403.7.8.1.

Table: BOILER SKID PACKAGE SCHEDULE (PURCHASED BY B.O. / INSTALLED BY G.C.). Columns include MARK, MANUFACTURER, MODEL NUMBER, BOILER TYPE, UNIT SERVING, FUEL TYPE, FLUID, DESIGN WATER FLOW, INPUT (MBH), OUTPUT (MBH), TURNDOWN RATIO, MAXIMUM PRESSURE, C.A. DIA., VENT DIA., VENT MATERIAL, ENTERING WATER TEMP., LEAVING WATER TEMP., NOTES.

NOTES: 1. ELECTRICAL CONTRACTOR TO PROVIDE POWER TO EACH BOILER @ BOILER PACKAGE. 2. PROVIDE DRY CONTACT ON BOILER TO ALARM ON FAILURE & HARD WIRE ALARM BELL TO BOILER. 3. PROVIDE OPTIONAL SEALED COMBUSTION CONNECTION. 4. OUTDOOR TEMPERATURE SENSOR (FIELD WIRED BACK TO LEADER BOILER). 5. 30 PSI ASME RELIEF VALVE. 6. PROVIDE GAS PRESSURE REGULATOR ( BY OTHERS IF NEEDED). 7. CONDENSATE NEUTRALIZATION KIT (CONTRACTOR TO CONNECT TO DRAIN). 8. LOW-WATER CUTOFF WITH MANUAL RESET & TEST. 9. CONCENTRIC VENT KIT 10. 110 GALLONS 11. 417 GPH RECOVERY 12. 200,000 BTUH HEAT TRANSFER 13. 30 GPM BOILER SIDE FLOW, 90 GPM POOL SIDE FLOW 14. 3" POOL CONNECTIONS. TO BE CONNECTED BY GENERAL CONTRACTOR TO POOL SUPPLY. 15. LOCHINVAR START UP BY LOCAL LOCHINVAR APPROVED VENDOR. FORM MUST BE USED. 16. POOL HIGH LIMIT SENSOR TO BE INSTALLED BY POOL CONTRACTOR AND WIRED TO LEADER BOILER. 17. PROVIDE R30PAD UNDER IWH. 18. PROVIDE SEISMIC STRAP. AT LEAST TWO 22-GAUGE METAL STRAPS. ONE STRAP ON THE TOP 1/3 OF THE UNIT AND ONE ON THE BOTTOM 1/3.

Table: DUCTWORK APPLICATION SCHEDULE. Columns include AIR SYSTEM, MATERIAL, NOTES, DESIGN PRESSURE CLASSIFICATION (INCHED, WG).

NOTES: 1. CABLES MUST BE SUSPENDED FROM CEILING EVERY 10'-15' OR PER MANUFACTURER DIRECTIONS. NO DIPPING WALL BE ALLOWED. 2. PRODUCT MUST BE COORDINATED WITH LIGHT LAYOUT. 3. PRODUCT TAKES 4-6 WEEKS FROM ORDER. 4. GENERAL CONTRACTOR TO INSTALL BLOCKING FOR HIGH TENSION CABLES. 5. ALL DUCTWORK SHALL BE NON-OILED, GALVANIZED EXCEPT WHERE NOTED ON PLANS AS FABRIC DUCT. PROVIDE STAINLESS STEEL OR ALUMINUM DUCTWORK ONLY WHERE REQUIRED BY LOCAL CODE. PROVIDE STAINLESS STEEL DUCTWORK FOR ACID STORAGE CLOSET EXHAUST.

SECTION C408 SYSTEM COMMISSIONING. C408.1 General. A building commissioning process led by a certified commissioning professional and functional testing requirements shall be completed for mechanical systems in Section C403; service water heating systems in Section C404; controlled receptacle and lighting control systems in Section C405; equipment, appliance and systems installed to comply with Section C406 or C407; energy metering in Section C409; and refrigeration systems in Section C410. Exception: Buildings, or portions thereof, which are exempt from Sections C408.2 through C408.7 may be excluded from the commissioning process. 1. Mechanical systems are exempt from the commissioning process where the installed total mechanical equipment capacity is less than 240,000 Btu/h cooling capacity and less than 300,000 Btu/h heating capacity. 2. Service water heating systems are exempt from the commissioning process in buildings where the largest service water heating system capacity is less than 200,000 Btu/h and where there are no pools or permanent spas.

Client Goldfish Swim School H&H Swim School Puyallup, WA F.A. #272

Brand Standards All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



issue / revision date 11-18-22 DOH Review 11-21-22 Building Permit 12-09-22 Addendum #1 01-11-23 Owner Revision 02-09-23 City Review Comments 02-09-23 DOH Review Comments 02-09-23 Elect. Review Comments

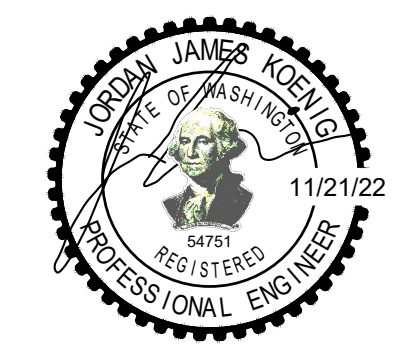
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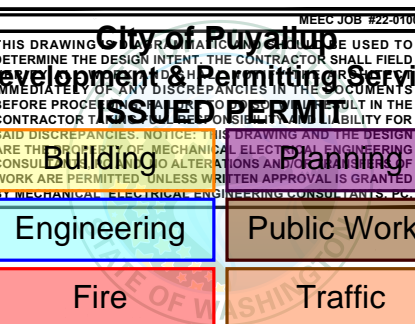
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**DOAS/RTU FAN SCHEDULE – SUPPLIED BY OWNER AND INSTALLED BY GC**

FAN INFORMATION										ELECTRICAL INFORMATION					COOLING INFORMATION							REHEAT INFORMATION					GAS HEAT INFORMATION					NOTES				
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	GCC-CA CFM / UNOCC-DA CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOCAP	OUTSIDE AIR		MIXED AIR		LEAVING AIR			CAPACITY		IEER	ISMRE	DISCHARGE		CAPACITY		MOISTURE REMOVAL RATE		GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE
1	DU-1	1	CASRTU4-I.600-24-22T-DOAS	CAPTIVEAIRE	24P-4	0	4767	4767	4141	1,000	5.00	3	460	43.4A	50A	DB	WB	DB	WB	DB	WB	DP	TOTAL	SENS.	IEER	ISMRE	DB	WB	DESIRED	MAX	68.4 LBS/HR		NATURAL	592593	480000	85°F
4	RTU-1	1	CASRTU2-I.250-18-10T-DOAS	CAPTIVEAIRE	18MF-2-RTU	2300	1700	4000	2033	0,800	5.00	3	460	33A	35A	70.0°F	63.7°F	72.9°F	62.7°F	53.2°F	53.3°F	51.1°F	172.2 MBH	98.7 MBH	18.1	5.1	99.0°F	68.6°F	258.1 MBH	260 MBH	68.4 LBS/HR	NATURAL	240000	194400	40°F	1,2,3,4,5,6,7,8,9,10,11,13,14,15

**EXHAUST FAN INFORMATION (SUPPLIED BY OWNER AND INSTALLED BY GC)**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
2	PEF-1	1	DU180HFA	CAPTIVEAIRE	2503	0.5	983	TEFC,PREMIUM	1.0	0.68	3	460	1.8	578 FPM	199	13.4
3	PEF-2	1	DU180HFA	CAPTIVEAIRE	2503	0.5	983	TEFC,PREMIUM	1.0	0.68	3	460	1.8	578 FPM	199	13.4

**CURB ASSEMBLIES**

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	DU-1	245 LBS	CURB	80,000"W X 111,000"L X 18,000"H ALONG WIDTH, RIGHT INSULATED 16 GAUGE.
2	# 2	PEF-1	30 LBS	CURB	26,500"W X 26,500"L X 26,000"H ALONG LENGTH, RIGHT INSULATED HINGED.
3	# 3	PEF-2	30 LBS	CURB	26,500"W X 26,500"L X 26,000"H ALONG LENGTH, RIGHT INSULATED HINGED.
4	# 4	RTU-1	104 LBS	CURB	49,500"W X 75,000"L X 18,000"H ALONG WIDTH, RIGHT INSULATED.

**FAN OPTIONS**

FAN UNIT NO	TAG	QTY	DESCRIPTION	FAN UNIT NO	TAG	QTY	DESCRIPTION
1	DU-1	1	INLET PRESSURE GAUGE, 0-35"	4	RTU-1	1	EXHAUST FAN HEAT BAFFLE
		1	RTU TOTAL CFM MONITORING			1	CURRENT SENSOR MOUNTED IN EXHAUST FAN FOR USE WITH POOL ROOM TEMP CONTROL
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE			1	2 YEAR PARTS WARRANTY
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED			1	INLET PRESSURE GAUGE, 0-35"
		1	RTU4 DOWN DISCHARGE			1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	2" MERV 13 FILTERS FOR RTU4 (QTY. 12)			1	RTU TOTAL CFM MONITORING
		1	2" MERV 8 FILTERS FOR RTU4 (QTY. 12)			1	SHIP LOOSE GAS STRAINER 3/4"
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE			1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	RTU FIXED 100% OA INTAKE CONTROL			1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	RTU4 NO RETURN - 100% OA			1	LOW AMBIENT COOLING OPERATION - DOWN TO 0F AMBIENT
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR			1	RTU2 DOWN DISCHARGE
		1	FREEZE STAT			1	2" MERV 8 FILTERS FOR RTU2 (QTY. 4)
		1	RTU4 CURB DUCT HANGER			1	OVERHEAT STAT
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS			1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	SHIP LOOSE GAS STRAINER 1"			1	10 TON MODULATING COOLING OPTION, 460/480V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	HIGH TURNDOWN OPTION FOR DOAS UNITS			1	10 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 2 FURNACES			1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	AUXILIARY REHEAT			1	RTU2 CURB DUCT HANGER
		1	EXHAUST CONTACTOR AFTER AIRFLOW SWITCH - FIELD WIRED			1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI			1	EXHAUST CONTACTOR AFTER AIRFLOW SWITCH - FIELD WIRED
		1	PURGE/DRY/VENT MODE			1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	RTU4 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX			1	OCCUPIED SCHEDULING
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)			1	RTU2 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	LOAD REACTOR MOUNTED IN FAN			1	RTU2 ECONOMIZER BAROMETRIC RELIEF
		1	CURRENT SENSOR MOUNTED IN EXHAUST FAN FOR USE WITH POOL ROOM TEMP CONTROL			1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
1	22 TON MODULATING COOLING OPTION, 460/480V. 4 CFS. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS	1	RTU2 DOWN RETURN				
1	22 TON MODULATING REHEAT OPTION - DISCHARGE DEWPOINT CONTROL. 4 CFS	1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)				
1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY. (SEE ADDITIONAL DETAILS)	1	LOAD REACTOR MOUNTED IN FAN				
2	PEF-1	1	SCR-18 BIRD SCREEN	1	PEF-2	1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY. (SEE ADDITIONAL DETAILS)
		1	MOTORIZED I 23 BDD 120/240V				
		1	VAV PACKAGE W/ MANUAL CONTROL (VFD INCLUDED)				
		1	LOAD REACTOR MOUNTED IN FAN				
		1	VFD FACTORY MOUNTED AND WIRED IN EXHAUST FAN				
		1	VFD MOUNTING BRACKET FOR DU/DR 180 - 200				
3	PEF-2	1	EXHAUST FAN HEAT BAFFLE	1	PEF-2	1	SCR-18 BIRD SCREEN
		1	CURRENT SENSOR MOUNTED IN EXHAUST FAN FOR USE WITH POOL ROOM TEMP CONTROL				
		1	2 YEAR PARTS WARRANTY				
		1	SCR-18 BIRD SCREEN				
		1	MOTORIZED I 23 BDD 120/240V				
		1	VAV PACKAGE W/ MANUAL CONTROL (VFD INCLUDED)				
1	LOAD REACTOR MOUNTED IN FAN						
1	VFD FACTORY MOUNTED AND WIRED IN EXHAUST FAN						
1	VFD MOUNTING BRACKET FOR DU/DR 180 - 200						

**GENERAL NOTES:**

CONTRACTOR MUST FIELD INSTALL FACTORY SUPPLIED DISCHARGE AIR SENSOR AT LEAST 6' INTO THE SUPPLY DUCT.

**RTU-1 AND EF-2 SEQUENCE OF OPERATIONS:**

RTU-1 WILL BE SUPPLIED WITH A SPARE EXHAUST FAN CONTACTOR. THIS CONTACTOR SHOULD BE USED TO INTERLOCK EF-2 AND ITS DAMPER WITH THIS UNIT. THE INTERLOCK WILL REQUIRE THE LINE VOLTAGE FOR BOTH THE FAN AND THE MOTORIZED DAMPER TO BE RAN THROUGH THIS SPARE CONTACTOR PRIOR TO BEING RAN TO EACH COMPONENT.

RTU-1 WILL USE IT'S ON BOARD SCHEDULING TO CONTROL EF-2 & DAMPER ON/OFF BASED ON OCCUPIED HOURS SET BY THE OWNER.

DURING OCCUPIED HOURS, RTU-1 WILL BE IN ITS MINIMUM OCCUPIED OUTSIDE AIR POSITION. DURING UNOCCUPIED HOURS WHEN EF-2 IS SHUT OFF, RTU-1 WILL MODULATE TO ITS MINIMUM UNOCCUPIED OUTSIDE AIR POSITION TO MAINTAIN BUILDING PRESSURIZATION/MAKE-UP AIR FOR THE POOL ROOM.

RTU-1 BLOWER SHALL REMAIN ON AT ALL TIMES, AND WILL MODULATE HEATING, COOLING, AND DEHUMIDIFICATION BASED ON EITHER SPACE OR INTAKE TEMPERATURE/HUMIDITY SET POINTS DEFINED BY THE OWNER.

A HARD WIRED INTERNET CONNECTION IS REQUIRED AT THE RTU FOR THE CASLINK BUILDING MANAGEMENT SYSTEM. FOR MULTIPLE RTUS BY CAPTIVEAIRE, OR ADDITIONAL POOL UNIT(S), THIS CONNECTION CAN BE DAISY CHAINED BETWEEN UNITS.

CONSULT WIRING DIAGRAMS AND JOB SITE SPECIFIC SDV CHECKLIST FOR ADDITIONAL WIRING REQUIREMENTS (HIGH AND LOW VOLTAGE).

**SYSTEM DESIGN VERIFICATION (SDV)**

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

Client

Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards

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issue / revision date

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drawn by **ZS.** checked by **W.V.**

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

Mechanical Schedules

project: sheet title:



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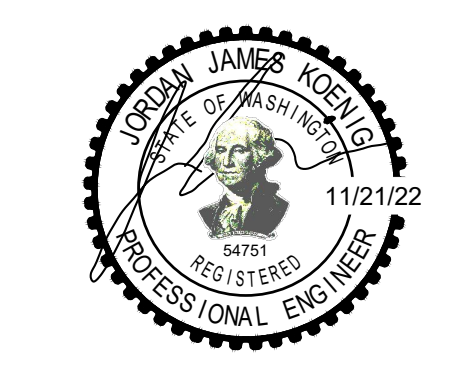
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22006 M.302

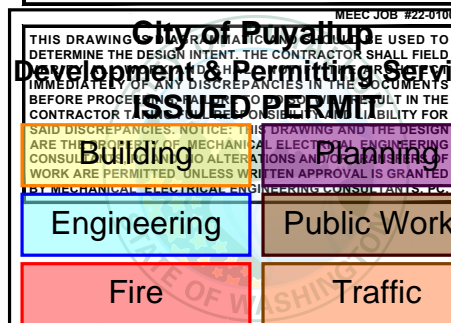
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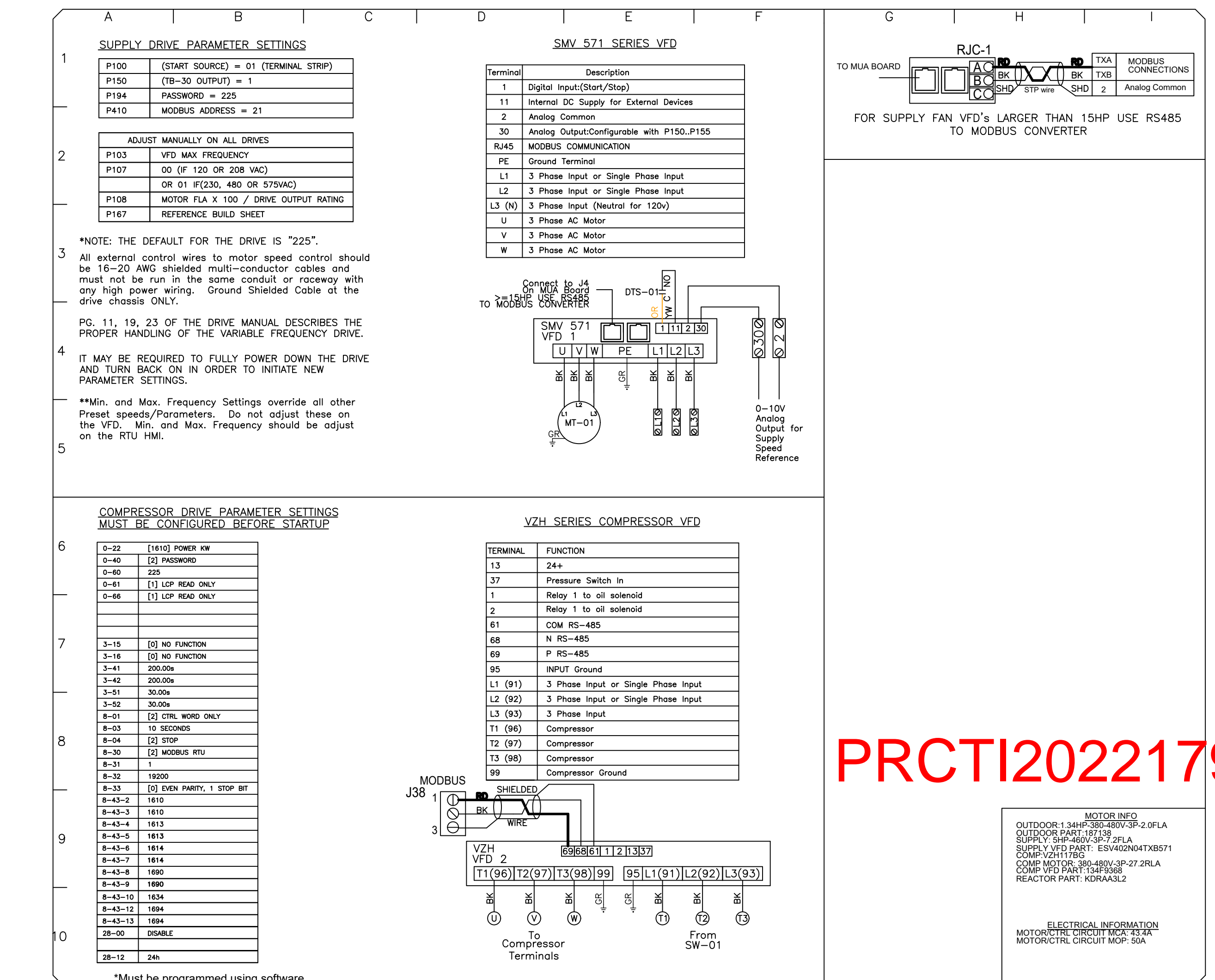
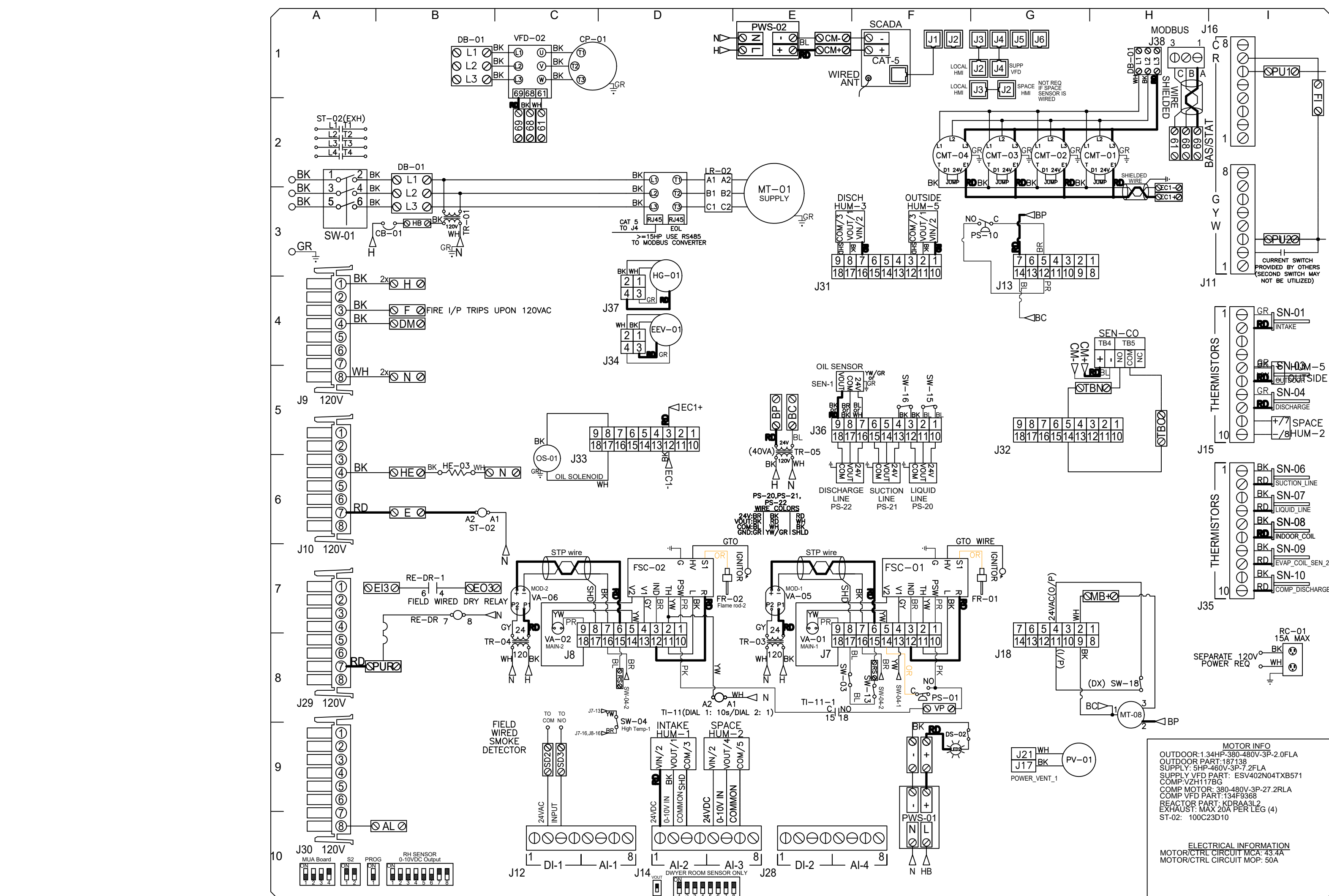
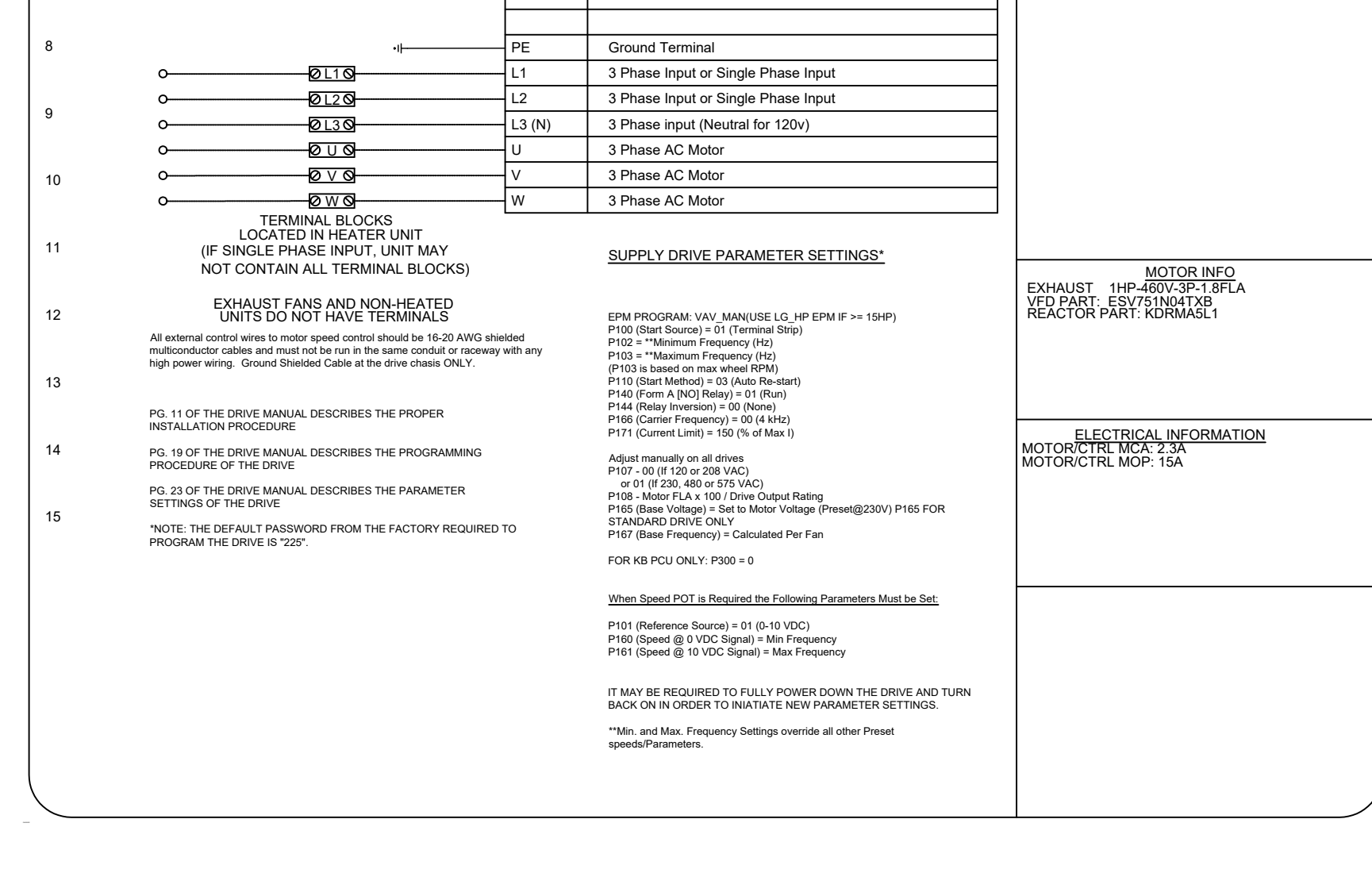
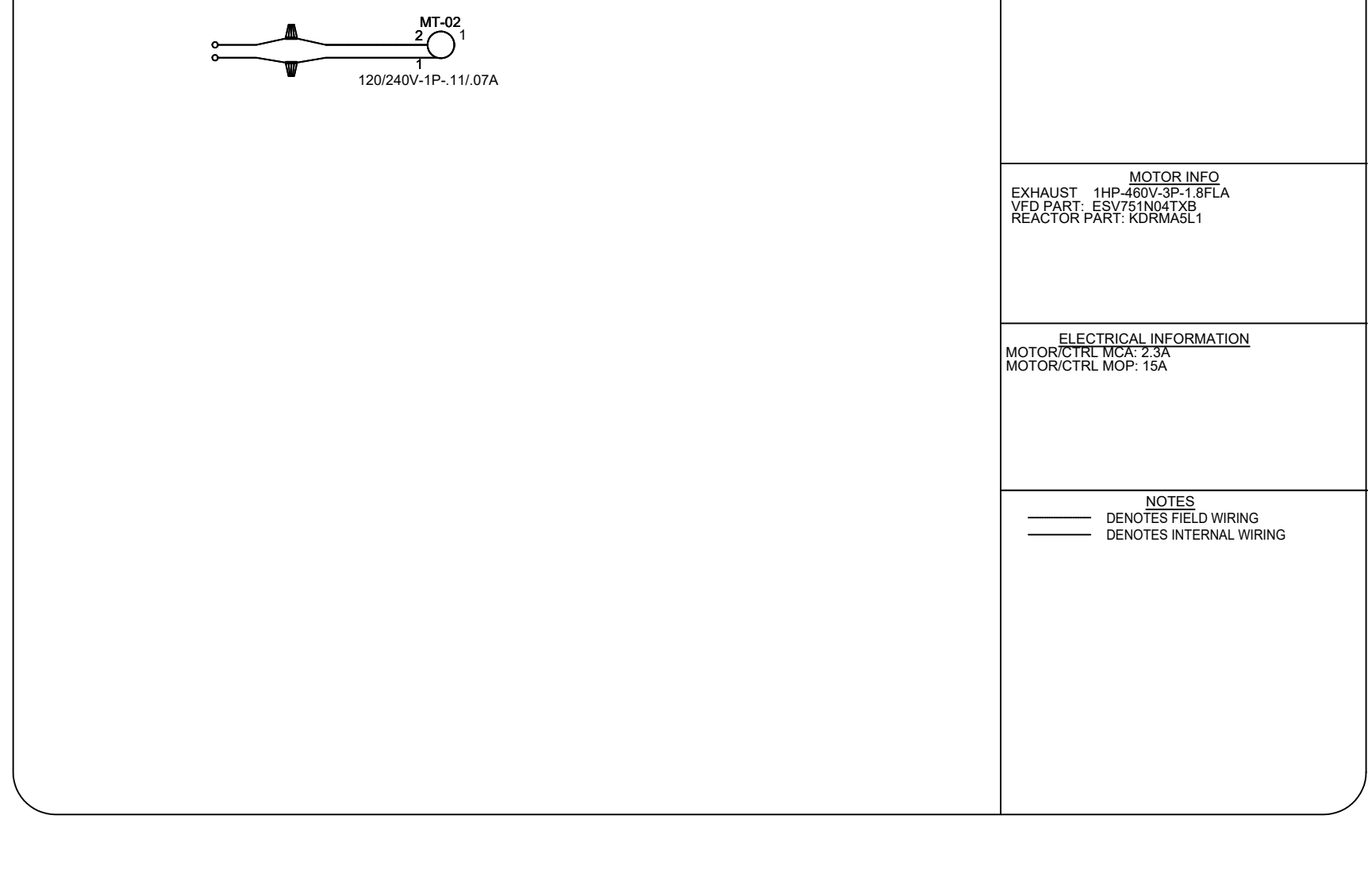
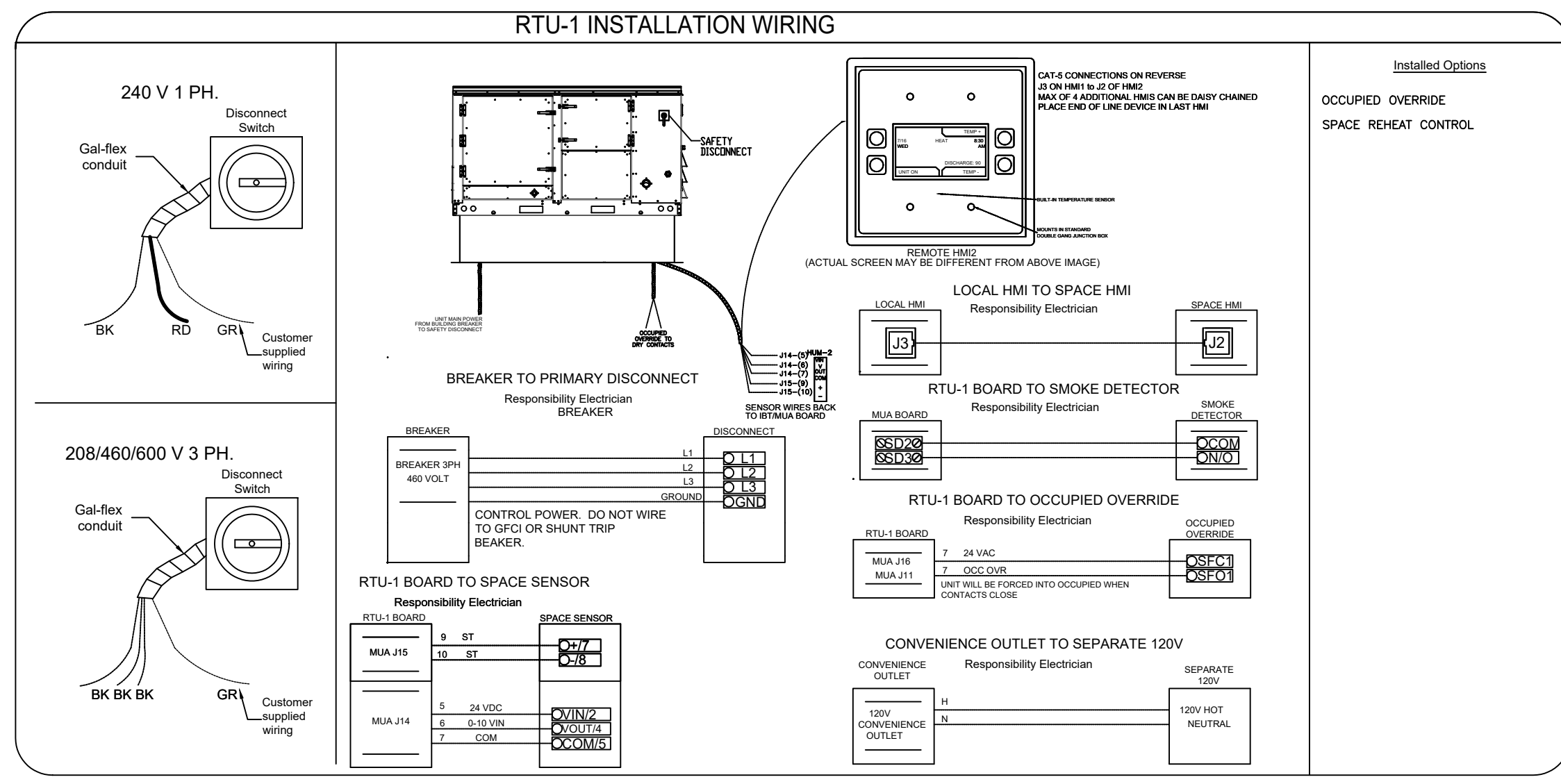
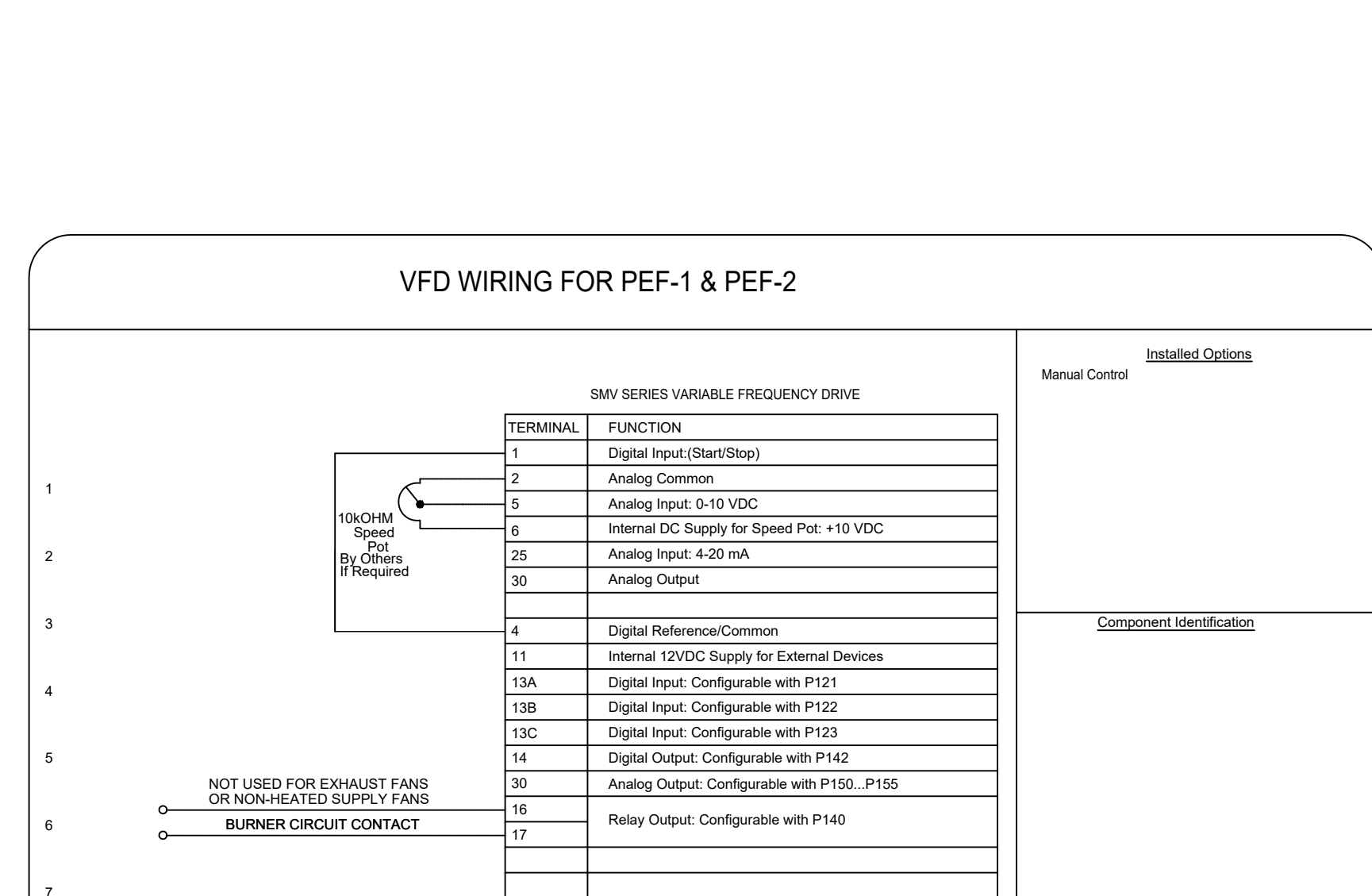
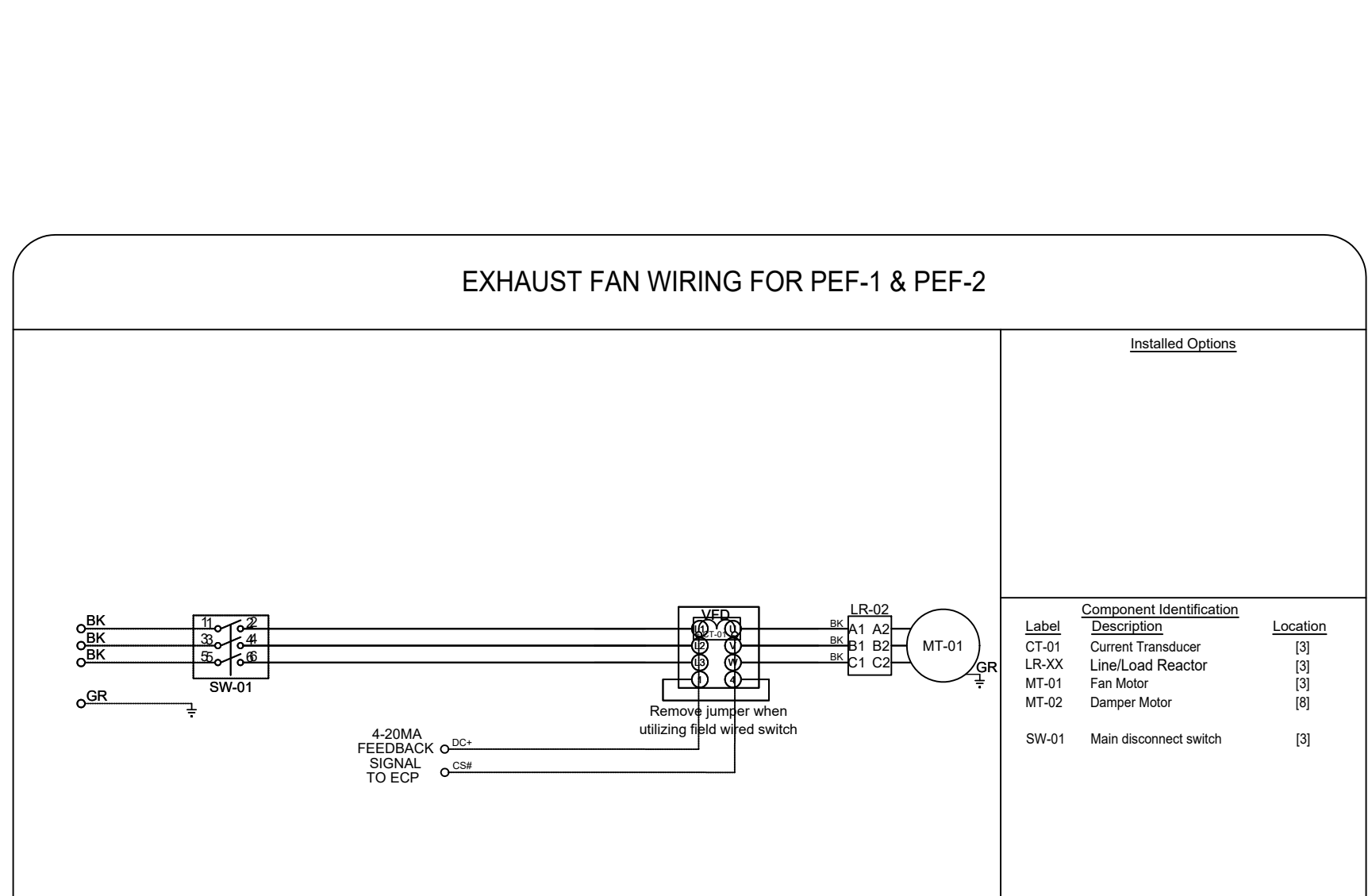
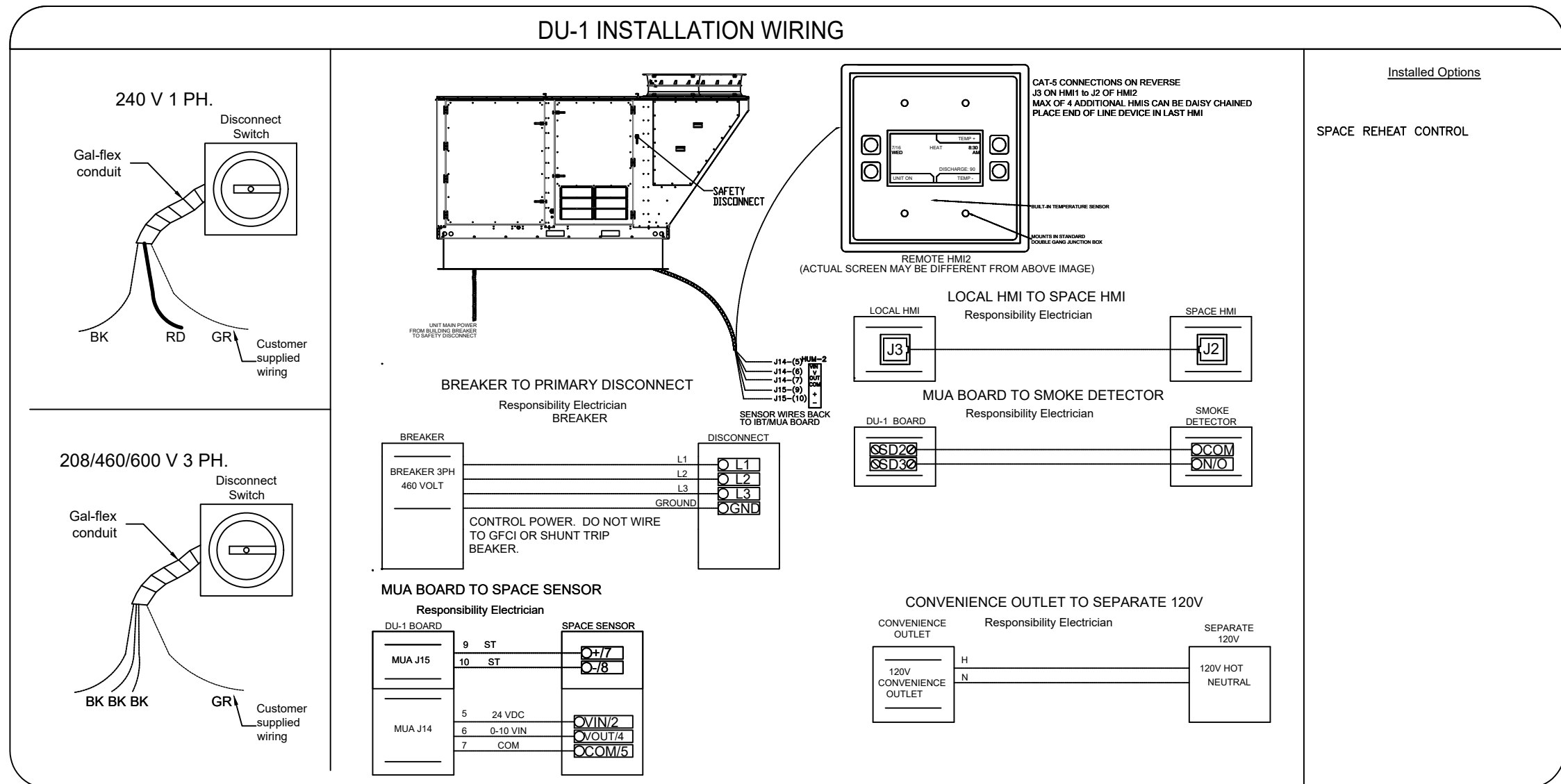
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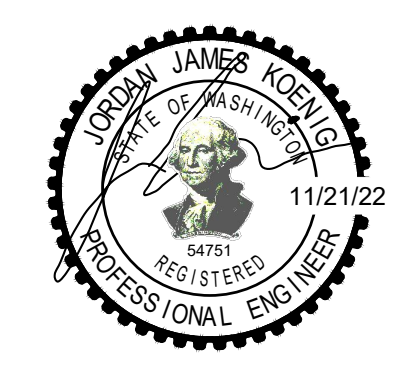
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Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
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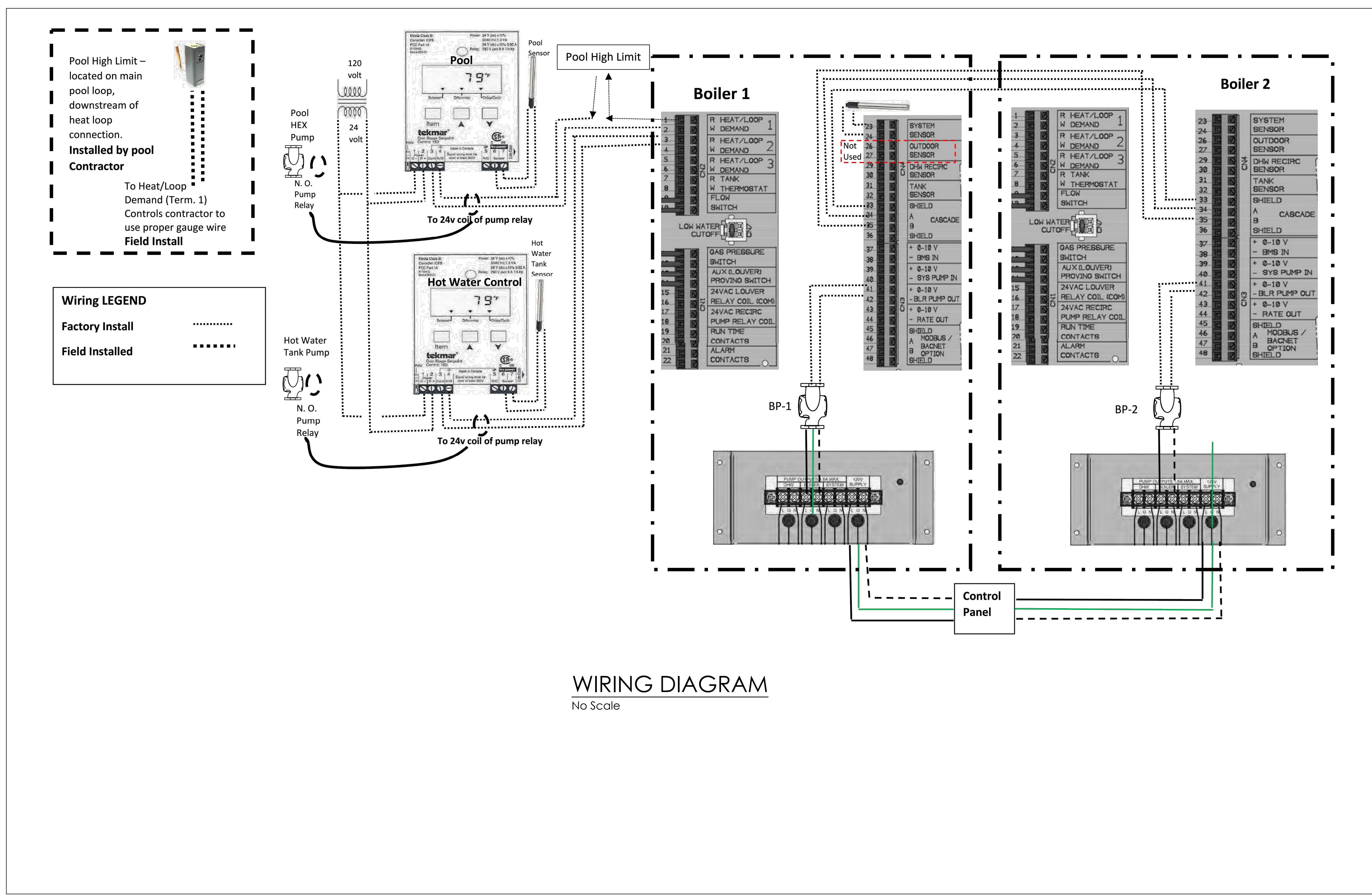
Mechanical Wiring  
Diagrams

project: sheet title:

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**WIRING DIAGRAM**  
No Scale

**PRCTI20221793**

POOL DEHUMIDIFICATION SPECIFICATIONS

FACTORY FABRICATED PACKAGED, 100% OUTDOOR, HEATING AND COOLING AIR UNITS

PART 1 - GENERAL

1.1 SUMMARY

A. THIS SECTION INCLUDES PACKAGED HEATING AND COOLING UNITS CAPABLE OF SUPPLYING UP TO 100 PERCENT OUTDOOR AIR.

1.2 SUBMITTALS

A. THE MANUFACTURER ASSUMES NO LIABILITY FOR THE USE OR RESULTS OF USE OF THIS DOCUMENT. THIS SPECIFICATION IS TO BE REVIEWED BY THE ENGINEER TO CONFIRM REQUIREMENTS OF THE PROJECT AND BUILDING CODES ARE MET.
B. AS THE MANUFACTURER CONTINUES PRODUCT DEVELOPMENT, IT RESERVES THE RIGHT TO CHANGE DESIGN AND SPECIFICATIONS WITHOUT NOTICE.

1.3 SEISMIC DESIGN

A. SHOULD THE PROJECT BE LOCATED WITHIN A SEISMIC ZONE REQUIRING SPECIAL PROVISIONS FOR SUPPORT AND RESTRAINT OF EQUIPMENT, COMPONENTS, AND PIPING, SEE SECTION 23 00 01 - SEISMIC, WIND, AND FLOOD LOAD DESIGN FOR ADDITIONAL REQUIREMENTS.

1.4 WIND LOAD DESIGN

A. REFER TO SECTION 23 00 01, SEISMIC, WIND, FLOOD LOAD DESIGN FOR ADDITIONAL REQUIREMENTS.

1.5 QUALITY ASSURANCE

A. ALL MODELS SHALL BE ETL LISTED AND COMPLY TO SAFETY STANDARDS UL 1995, THE STANDARD FOR SAFETY FOR HEATING AND COOLING EQUIPMENT. THE ENGINEER OF RECORD SHALL TAKE RESPONSIBILITY FOR THE APPROVAL OF ANY MODIFICATIONS OR ADDITIONS TO THE UNIT, INCLUDING AFTERMARKET UV OR IONIZATION FILTRATION DEVICES UNITS OUTFITTED WITH INDIRECT FIRED HEATERS SHALL ALSO COMPLY WITH ANSI Z83.8-2013, AND CSA 2.6-2013.

B. THIS UNIT HAS BEEN TESTED IN ACCORDANCE TO THE FOLLOWING STANDARDS:

- ANSIAHRI STANDARD 340/360
• ANSIASHRAE STANDARD 37
• AHRI STANDARD 270/370

1.6 WARRANTY

A. ALL UNITS SHALL BE PROVIDED WITH THE FOLLOWING STANDARD WARRANTIES:

- 1. 10-YEAR (NON-PRORATED) PARTS WARRANTY COVERING THE ENTIRE UNIT WHEN ACCOMPANIED BY A COMPANY PROVIDED SERVICE PLAN. 5-YEAR (NON-PRORATED) PARTS WARRANTY COVERING THE ENTIRE UNIT OTHERWISE.
2. 25-YEAR (NON-PRORATED) PARTS WARRANTY FOR SS HEAT EXCHANGER ON INDIRECT FIRED UNITS.

B. THIS WARRANTY SHALL NOT APPLY IF:

- 1. THE EQUIPMENT IS NOT INSTALLED BY A QUALIFIED INSTALLER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHIPPED WITH THE PRODUCT.
2. THE EQUIPMENT IS NOT INSTALLED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES AND REGULATIONS.
3. THE EQUIPMENT IS MISUSED, NEGLECTED, OR NOT MAINTAINED PER THE MANUFACTURER'S MAINTENANCE INSTRUCTIONS.
4. THE EQUIPMENT IS NOT OPERATED WITHIN ITS PUBLISHED CAPACITY.
5. THE INVOICE IS NOT PAID WITHIN THE TERMS OF THE SALES AGREEMENT.

C. THE MANUFACTURER SHALL NOT BE LIABLE FOR INCIDENTAL AND CONSEQUENTIAL LOSSES AND DAMAGES POTENTIALLY ATTRIBUTABLE TO MALFUNCTIONING EQUIPMENT. SHOULD ANY PART OF THE EQUIPMENT PROVE TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP WITHIN THE 10-YEAR PERIOD, UPON EXAMINATION BY THE MANUFACTURER, SUCH PART WILL BE REPAIRED OR REPLACED BY MANUFACTURER AT NO CHARGE. THE BUYER SHALL PAY ALL LABOR COSTS INCURRED IN CONNECTION WITH SUCH REPAIR OR REPLACEMENT. EQUIPMENT SHALL NOT BE RETURNED WITHOUT MANUFACTURER'S PRIOR AUTHORIZATION AND ALL RETURNED EQUIPMENT SHALL BE SHIPPED BY THE BUYER, FREIGHT PREPAID TO A DESTINATION DETERMINED BY THE MANUFACTURER.

PART 2 PRODUCTS

2.1 GENERAL

A. SUPPLY SINGLE ZONE ONE PIECE PACKAGED UNITS THAT ARE COMPLETE AS PER THE FOLLOWING SPECIFICATION, DELIVER ALL CAPACITIES SCHEDULED, AND CONFORM TO DESIGN INDICATED HEREIN. ALTERNATE LAYOUTS OR DIMENSIONAL CHANGES WILL NOT BE ACCEPTED.

2.2 CABINET

A. SIZE 2, 3 OR 4 UNITS SHALL BE CONSTRUCTED OF MINIMUM 20 GAUGE G-90 GALVANIZED STEEL RIVETED TOGETHER VIA STRUCTURAL POP-RIVETS. ALL METAL SHALL BE CNC BENT FOR PRECISE ASSEMBLY. ALL METAL SHALL BE CNC BENT FOR PRECISE ASSEMBLY.

1. RIGGING PROVISIONS: CABINET SIZES 2, 3 & 4 SHALL HAVE A STRUCTURAL BASE CONSTRUCTED OF MINIMUM 14 GAUGE G-90 GALVANIZED STEEL. INCLUDE FULL-SIZED FORK POCKETS AND LIFTING POINTS ON ALL FOUR SIDES. INCLUDE FULL-SIZED FORK POCKETS AND LIFTING POINTS ON ALL FOUR SIDES.

2. ROOF CONSTRUCTION: THE LIDS SHALL BE FABRICATED BY FORMING A DOUBLE-STANDING, SELF-LOCKING SEAM THAT REQUIRES NO ADDITIONAL SUPPORT. ROOF SHALL BE PITCHED TO ALLOW FOR PROPER DRAINAGE.

3. EXTERIOR WALL CONSTRUCTION: ALL EXTERIOR WALLS SHALL CONSIST OF A DOUBLE WALL, G-90 GALVANIZED STEEL CONSTRUCTION. CABINET SIZES 2, 3 & 4 SHALL BE INSULATED WITH 2IN. THICK, R13 CLOSED CELL FOAM.

4. SERVICE ACCESS DOORS: ALL DOOR JAMBS SHALL BE GASKETED AROUND THEIR PERIMETER, AND ALLOW FOR DOORS TO BE MOUNTED VIA REMOVABLE, SPRING ACTUATED, STAINLESS STEEL, HINGES WITH STAINLESS STEEL RIVETS, AND SELF-COMPRESSING LATCHES. EACH COMPARTMENT SHALL HAVE REMOVABLE ACCESS PANELS TO ALLOW FOR EASE OF SERVICE AND MAINTAINABILITY. ELECTRICAL CABINET ACCESS DOORS SHALL HAVE A DOOR HOLD INSTALLED TO PROP DOORS OPEN. ALL DOORS SHALL HAVE STAINLESS STEEL LATCHES WHICH ARE PAD LOCKABLE. ELECTRICAL CABINET DOORS SHALL BE OUTFITTED WITH SCHEMATIC/MANUAL POUCHES FORMED INTO THE DOOR, ALONG WITH WIRING DIAGRAM ATTACHED TO THE INDOOR OF THE DOOR FROM THE FACTORY.

B. ENTIRE INTERIOR AND EXTERIOR CASING SHALL BE CONSTRUCTED OF MINIMUM G90 GALVANIZED STEEL. THE UNIT CASING WILL NOT BE PAINTED. UNIT SHALL HAVE UNDERGONE A SALT SPRAY CORROSION TEST AS PER ASTM B 117.

2.3 AIRFLOW CONFIGURATIONS

A. DISCHARGE: UNIT SHALL BE CONFIGURABLE FOR DOWN (VERTICAL) DISCHARGE THROUGH THE UNIT'S BASE.

B. RETURN: UNIT SHALL BE CONFIGURABLE FOR NO RETURN.

C. UNIT INTAKE AIRFLOW CONFIGURATION SHALL BE THROUGH USE OF A FRESH/OUTDOOR AND RETURN AIR DAMPER.

1. DAMPER: SHALL EXCEED AMCA CLASS 1A STANDARD FOR LOW LEAKAGE. DAMPER ASSEMBLY SHALL BE A SINGLE ASSEMBLY, AND OUTFITTED WITH AN INTEGRAL BIRD SCREEN. LOUVER/GUTTER SYSTEM USED TO DIVERT ANY DRAINAGE THROUGH THE UNIT'S BASE - INTAKE AIR HOOD NOT REQUIRED.

2. ACTUATOR: A SINGLE DIRECT DRIVE DAMPER ACTUATOR SHALL BE USED WITH SPRING RETURN TO ENSURE THAT THE OUTDOOR AIR SECTION CLOSURES WHEN NOT POWERED.

2.4 SUPPLY AIR BLOWER AND MOTOR

A. ALL SUPPLY FANS SHALL BE DIRECT DRIVE (BELT-DRIVE NOT ACCEPTABLE) VARIABLE SPEED PLENUM FANS.

B. BLOWER MOTOR: MOTOR SHALL BE A PREMIUM EFFICIENCY MOTOR AVAILABLE AS:

- 1. OPEN DRIP PROOF (ODP) MOTOR DRIVEN BY A VARIABLE FREQUENCY DRIVE.

C. FANS TO BE SELECTED AT OR NEAR EFFICIENCY PEAK. (SUBMIT FAN CURVES)

D. BLOWER AND MOTOR ASSEMBLY SHALL BE DYNAMICALLY BALANCED. THE ENTIRE BLOWER AND MOTOR ASSEMBLY SHALL BE MOUNTED ON RUBBER VIBRATION ISOLATORS. WHEELS BALANCED AS PER AMCA 204-96, BALANCE QUALITY AND VIBRATION LEVELS FOR FANS.

E. UNIT EQUIPPED WITH TOTAL CFM MONITORING TO MEASURE AIRFLOW ACROSS SUPPLY DISCHARGE.

2.5 REFRIGERATION SYSTEM

A. UNIT SHALL UTILIZE A VARIABLE SPEED INVERTER DUTY SCROLL COMPRESSOR WITH THE FOLLOWING FEATURES:

- 1. MODULATION: COMPRESSOR SHALL BE CAPABLE OF COMPRESSOR SPEED MODULATION FROM 25%-100% ON 15, 20, 22, 25, & 30 TON UNITS.
2. REFRIGERANT: UNIT SHALL BE FACTORY CHARGED WITH R410A REFRIGERANT.
3. VIBRATION ISOLATION: COMPRESSOR AS WELL AS BLOWER ASSEMBLY SHALL EACH BE MOUNTED ON RUBBER VIBRATION ISOLATORS TO REDUCE TRANSMISSION OF VIBRATION TO THE BUILDING STRUCTURE.

4. INTERNAL OVERLOAD PROTECTION: COMPRESSOR SHALL INCLUDE INTERNAL THERMAL OVERLOAD PRODUCTION TO PROTECT AGAINST EXCESSIVE MOTOR TEMPERATURES.

5. CRANKCASE HEATER: COMPRESSOR SHALL INCLUDE A CRANKCASE HEATER TO PROTECT AGAINST LIQUID FLOOD-BACK AND ELIMINATION OF OIL FOAMING ON STARTUP. THE CRANKCASE HEATER MUST REMAIN POWERED WHEN THE COMPRESSOR IS NOT IN OPERATION.

6. OIL MANAGEMENT: UNIT SHALL UTILIZE BOTH PASSIVE AND ACTIVE OIL RETURN MANAGEMENT USING OIL LEVEL SENSOR AND SCHEDULED OIL BOOSTS.

7. MONITORED ENVELOPE: UNIT SHALL MONITOR ALL CRITICAL REFRIGERATION POINTS TO ENSURE COMPRESSOR DOES NOT OPERATE OUTSIDE OF SAFE OPERATING ENVELOPE.

8. THROTTLING LOGIC: UNIT SHALL ALLOW FOR HIGH HEAD PRESSURE MONITORING THROTTLE MODE FOR HIGH AMBIENT OPERATION, AND LOW SUCTION PRESSURE THROTTLE MODE FOR LOW CAPACITY OPERATION OR ANY CONDITIONS RESULTING IN LOW SUCTION PRESSURE.

9. PUMP-DOWN: ACTIVE PUMP-DOWN MODE WITH DISCHARGE LINE CHECK VALVE TO PROTECT AGAINST LIQUID MIGRATION INTO COMPRESSOR DURING IDLE TIMES.

B. THE UNIT SHALL BE OUTFITTED WITH THE FOLLOWING:

1. INDOOR COIL: INDOOR COIL SHALL BE A HIGH EFFICIENCY 5 ROW COIL DESIGN WITH ALUMINUM FINN MECHANICALLY BONDED TO COPPER TUBES. COIL IS STAGGERED TO INCREASE TURBULENCE, REDUCE THE COIL BYPASS FACTOR, AND ULTIMATELY INCREASE THE TIME THE AIR STAYS WITHIN THE COIL.

2. ELECTRONIC EXPANSION VALVE: EACH REFRIGERATION CIRCUIT WILL BE OUTFITTED WITH AN ELECTRONIC EXPANSION VALVE METERING DEVICE WHICH CAN BE THROTTLED FROM 0-100% OPEN TO ALLOW FOR PRECISE SUPERHEAT CONTROL.

3. INDOOR COIL DRAIN PAN: THE INDOOR COIL SHALL BE OUTFITTED WITH A SLOPED STAINLESS STEEL DRAIN PAN. THIS PAN SHALL BE INSULATED ALONG THE ENTIRE BASE TO PREVENT CONDENSATION, AND OUTFITTED WITH A SAFETY OVERFLOW SWITCH WHICH WILL AUTOMATICALLY SHUT DOWN COOLING OPERATION PRIOR TO WATER OVERFLOWING THE DRAIN PAN IN THE EVENT OF A DRAIN CLOG. THE ENTIRE DRAIN PAN SHALL BE 20 GA STAINLESS STEEL CONSTRUCTION AND WRAP BENEATH THE ENTIRE COIL WITH FLASHING ON ENTERING SIDE OF COIL TO ENSURE CAPTURE OF ALL CONDENSATE. DRAIN PAN DISCHARGE PIPE SHALL ALSO BE STAINLESS STEEL CONSTRUCTION. DRAIN PAN SHALL BE PITCHED TO EXCEED ASHRAE 62.1 STANDARD.

4. BASE OF THE CONDENSING COIL CABINET SHALL BE PITCHED AWAY FROM THE UNIT AS A SAFETY TO ENSURE ALL DRAINING EXITS AWAY FROM THE CURB.

5. OPTIONAL HOT GAS REHEAT COIL: THE UNIT SHALL INCLUDE AN OPTIONAL COPPER TUBE AND ALUMINUM FIN HOT GAS REHEAT COIL MOUNTED DOWNSTREAM OF THE INDOOR COIL. THIS COIL SHALL BE CONTROLLED VIA FULLY MODULATING HOT GAS REHEAT VALVE TO PROVIDE PRECISE REHEAT.

TEMPERATURE CONTROL. THIS COIL SHALL INCLUDE THE ADDITION OF AN EVAPORATIVE COIL, LEAVING CONDITION SENSOR TO MAINTAIN A COIL DEW POINT. THIS ALSO PREVENTS OPERATION OF A DEHUMIDIFICATION CALL WHEN INTAKE DEW POINT CONDITIONS ARE FOUND TO BE BELOW SPACE DEW POINT CONDITIONS, PREVENTING WASTED ENERGY.

6. OUTDOOR (CONDENSER) COIL: OUTDOOR COIL SHALL BE A HIGH EFFICIENCY COIL DESIGN WITH ALUMINUM FINN MECHANICALLY BONDED TO COPPER TUBES. THE COIL SHALL BE DOWNWARD SLOPED TO PROTECT COIL FROM HAIL DAMAGE.

7. OUTDOOR FANS: THE OUTDOOR COIL SHALL HAVE A VERTICAL DISCHARGE OUTFITTED WITH QUIET, EFFICIENT, FULLY MODULATING ELECTRONICALLY COMMUTATED MOTOR (ECM) CONDENSING FANS. THESE FANS SHALL MODULATE TO MAINTAIN A TEMPERATURE DIFFERENTIAL BETWEEN OUTSIDE AIR AND THE OUTDOOR COIL.

C. TO HELP MITIGATE ANY LONG-TERM POTENTIAL FOR LEAKS OR HARDWARE FAILURES, THE UNIT SHALL BE OUTFITTED WITH THE FOLLOWING PROTECTION MEASURES:

1. SUCTION LINE ACCUMULATOR FOR ADDED PROTECTION AGAINST LIQUID ENTERING SUCTION LINE OF COMPRESSOR.

2. BI-FLOW, LOW PRESSURE DROP, FILTER DRIER.

3. ELECTRONIC EXPANSION VALVE (EEV) FOR PRECISE SUPERHEAT CONTROL. EEV SHALL OPEN PARTIALLY ALLOWING SYSTEM PRESSURE EQUALIZATION PRIOR TO ACTIVATION OF THE COMPRESSOR.

4. PROTECTIVE RUBBER SLEEVES INSTALLED ON ALL DISTRIBUTION LINES OF INDOOR COIL TO PREVENT WEAR FROM RUBBING.

5. ALL REFRIGERATION PORTS SHALL BE SHORT-STUB ASSEMBLY AND ANY ACCESS PORT WITH A TRANSDUCER OR SWITCH IS MOUNTED VERTICALLY TO MITIGATE RISK OF BENT/CRACKED STUB JOINTS.

6. REFRIGERATION CIRCUIT SHALL BE MECHANICALLY CNC PRE-BENT TUBING WHEREVER POSSIBLE WITH MINIMAL BRAZED JOINTS TO MINIMIZE POINTS FOR POTENTIAL REFRIGERATION LEAKS.

7. FACTORY TESTED FOR LEAKS VIA HIGH PRESSURE NITROGEN DECAY AND HELIUM TRACER GAS TESTING.

8. SUCTION LINE TEMPERATURE SENSOR FAILURE DETECTION.

9. PREVENTATIVE FAILURE ALERTS THROUGH A MANUFACTURER PROVIDED, CLOUD BASED, CELLULAR REMOTE MONITORING SYSTEM.

2.6 HEATING SYSTEM

A. THE GAS BURNER SHALL BE AN INDIRECT-FIRED, PUSH-THROUGH TYPE, USING NATURAL GAS OR LIQUID PROPANE GAS. THE INLET-SUPPLY PRESSURE TO THE UNIT FOR NATURAL GAS MUST BE 7" W.C. MINIMUM. FOR LIQUID PROPANE GAS, THE MINIMUM INLET SUPPLY PRESSURE TO THE UNIT MUST BE 11" W.C.

B. BURNER SHALL BE A TUBULAR IN-SHOT FIRED DESIGN CAPABLE OF USING NATURAL OR LP TYPE GAS. EACH BURNER IGNITION SHALL BE OF THE DIRECT-SPARK DESIGN WITH REMOTE FLAME SENSING AT INLET OF THE LAST FIRING TUBE OF THE GAS MANIFOLD.

C. DIRECT-SPARKING SEQUENCE SHALL LAST THROUGH THE COMPLETE DURATION OF THE TRIAL FOR IGNITION PERIOD FOR GUARANTEED LIGHT-OFF. BURNER SHALL ALWAYS BE LIT AT MAXIMUM GAS FLOW AND COMBUSTION AIRFLOW FOR GUARANTEED LIGHT-OFF. EACH BURNER IGNITION MODULE SHALL HAVE LED INDICATORS FOR TROUBLESHOOTING AND A SET OF EXPOSED PRONGS FOR TESTING FLAME INDICATION SIGNAL.

D. ALL FURNACES SHALL BE CONTROLLED BY AN ELECTRONIC VERNIER-TYPE FULLY

MODULATING CONTROL SYSTEM CAPABLE OF ACHIEVING 80% COMBUSTION EFFICIENCY OVER THE ENTIRE GAS FIRING RANGE OF THE UNIT.

E. EACH FURNACE SHALL HAVE:

1. A MINIMUM TURNDOWN RATIO OF 12:1 FOR NATURAL GAS AND 10:1 FOR LP GAS WHILE MAINTAINING A CONSTANT 80% EFFICIENCY (90% FOR HIGH EFFICIENCY FURNACE OPTION). NO COLD AIR BYPASS OF THE HEAT EXCHANGER.

2. EACH FURNACE HEAT EXCHANGER SHALL BE A BENT-TUBE STYLE DESIGN MADE ENTIRELY OF STAINLESS STEEL.

3. STAINLESS STEEL QUICK SEAL CONNECTION FOR GAS CONNECTION.

4. MANIFOLD AND INPUT GAS PRESSURE GAUGES.

5. FACTORY PIPED CONDENSATE DRAIN TO EXTERIOR OF CABINET.

6. A COMBUSTION FLUE TO BE INSTALLED ON ADJACENT SIDE AS COMBUSTION INTAKE WITH INTEGRATED HIGH VELOCITY WIND CAP.

7. A BLOCKED VENT SAFETY AIRFLOW SWITCH WITH HIGH TEMPERATURE SILICONE TUBING OPERATING OFF OF ABSOLUTE PRESSURE MEASURED INSIDE OF THE POWER-VENT BLOWER HOUSING.

8. A HIGH TEMPERATURE AUTO-RECYCLING LIMIT WITH A MAXIMUM NON-ADJUSTABLE SET POINT.

9. A MANUAL RESET HIGH TEMPERATURE FLAME ROLLOUT SWITCH WITH A NON-ADJUSTABLE SET POINT.

10. EACH FURNACE COMPARTMENT SHALL HAVE A REMOVABLE POST AND PANEL THAT ALLOWS THE FURNACE TO BE EASILY REMOVED FOR SERVICE AND MAINTAINABILITY.

11. A POWER-VENT ASSEMBLY FOR EXHAUSTING FLUE GASES WITH A PSC OR ECM TYPE MOTOR THAT IS SECURELY MOUNTED AND EASILY ACCESSIBLE/REMOVABLE FOR SERVICE.

12. A 0-10"W.C. GAS PRESSURE GAUGE INSTALLED ON THE GAS MANIFOLD.

2.7 FILTERS

A. PROVIDE FILTERS AS PART OF UNIT. ALL FILTERS SHALL BE FURNISHED AND INSTALLED TO MEET THE PERFORMANCE REQUIREMENTS SET FORTH IN THE SCHEDULE AND AS SPECIFIED UNDER ANOTHER SECTION OF THIS WORK.

B. ALL FILTERS SHALL BE INSTALLED ON TRACKS FOR EASY REMOVAL FROM THE UNIT.

C. UP TO 3 LAYERS OF OUTDOOR AIR FILTRATION INSTALLED. UNIT SHALL SHIP WITH A 2" WASHABLE METAL MESH OUTDOOR AIR FILTER. MIXED AIR SHALL HAVE OPTIONAL 2" MERV-8 FILTERS. MIXED AIR SHALL HAVE OPTIONAL 2" MERV-13 FILTERS.

D. UNIT SHALL HAVE AN OPTIONAL ADJUSTABLE PRESSURE DIFFERENTIAL SENSOR FOR THE FILTER BANK TO ALERT IN THE EVENT OF A CLOGGED FILTER.

2.8 ELECTRICAL

A. ALL CONTROLS SHALL BE PRE-WIRED AND HOUSED IN AN INSULATED ELECTRICAL CABINET WITHIN THE UNIT TO PROTECT AGAINST RISK OF CONDENSATION.

B. UNIT SHALL BE PROVIDED WITH A DOOR SAFETY SWITCH THAT DE-ENERGIZES THE SUPPLY FAN WHEN THE DOOR IS OPENED.

C. UNIT SHALL BE PROVIDED WITH A FACTORY MOUNTED AVERAGING SUPPLY AIR TEMPERATURE SENSOR TO ALLOW FOR ACCURATE DISCHARGE TEMPERATURE READINGS WITHIN UNIT WHEN A DOWNSTREAM SENSOR IS NOT INSTALLED. FIELD MOUNTED AND WIRED DISCHARGE AIR SENSORS WILL NOT BE ACCEPTED.

D. UNIT SHALL BE PROVIDED WITH A FACTORY MOUNTED AVERAGING INTAKE AIR TEMPERATURE SENSOR TO ALLOW FOR ACCURATE INTAKE TEMPERATURE READING REGARDLESS OF HOW THE OA/RA DAMPERS ARE POSITIONED.

E. THE ELECTRICAL CABINET SHALL BE OUTFITTED WITH THE FOLLOWING:

1. LED ELECTRICAL CABINET SERVICE LIGHT WITH AUTOMATIC ACTIVATION UPON DOOR SWITCH.

2. COLOR WIRING SCHEMATIC, LAMINATED TO THE INTERIOR WALL OF THE CABINET DOORS.

3. FACTORY MOUNTED DISCONNECT WITH UNIT BOTTOM KNOCKOUTS.

4. A LED BACKLIT, LCD HUMAN-MACHINE INTERFACE (HMI) SHALL BE MOUNTED WITHIN THE UNIT'S CONTROL CABINET TO ALLOW FOR ALL SET POINTS CONFIGURATION AND REFRIGERATION SYSTEM MONITORING AT THE UNIT.

5. OPTIONAL 120V, 15A UNIT POWERED OR UNPOWERED CONVENIENCE OUTLET.

F. ALL SENSORS SHALL BE WIRED BACK TO THE MAIN CONTROL BOARD THAT CONTINUOUSLY MONITORS ALL CRITICAL COMPONENTS AND MAKES DECISIONS BASED ON PRE-DETERMINED LOGIC TO ACCURATELY CONTROL THE FOLLOWING:

1. PID LOGIC TO CONTROL HEATER MODULATION ENSURING PRECISE DISCHARGE/SPACE TEMPERATURE CONTROL.

2. PID LOGIC TO CONTROL COMPRESSOR SPEED TO PROVIDE PRECISE CONTROL OVER EVAPORATIVE COIL TEMPERATURES, LEAVING DEW POINT, AND DISCHARGE/SPACE TEMPERATURES.

3. PID LOGIC FOR OUTDOOR FAN MODULATION TO MAINTAIN AN OPTIMAL OUTDOOR COIL TEMPERATURE.

4. PID LOGIC FOR ELECTRONIC EXPANSION VALVE (EEV) POSITION TO MAINTAIN A PRECISE SUPERHEAT TEMPERATURE.

5. PID LOGIC FOR MODULATING REHEAT VALVE TO LIMIT SUPPLY AIR TEMPERATURE AND RELATIVE HUMIDITY BASED OFF OF SPACE OR DISCHARGE CONDITIONS.

2.9 CONTROLS

A. UNIT SHALL BE OUTFITTED WITH A CONTROL BOARD TO ALLOW FOR FULL CONTROL OF THE ENTIRE UNIT.

B. PROVIDE AIR FLOW SWITCH ON THE SUPPLY FAN SYSTEM TO SENSE AIR FLOW WITH AVAILABLE SET OF CONTACTS FOR CONNECTION TO BMS FOR AIRFLOW ALERTS.

C. ALL UNIT CONTROLS SHALL BE COMPATIBLE WITH BACNET AND LONWORKS BASED BUILDING MANAGEMENT SYSTEMS.

D. ALL UNITS SHALL BE OUTFITTED WITH CASLINK CLOUD BASED MONITORING, WHICH MONITORS EVERY POINT OF OPERATION, PROVIDES CONFIGURABLE AUTOMATED FAULT ALERT E-MAILS, AND REMOTE CONTROL CAPABILITIES.

E. INTEGRATED CELLULAR MODULE TO PROVIDE REMOTE CONNECTION TO MONITORING SERVICES TO VIEW BOTH REAL TIME AND HISTORICAL UNIT OPERATION. DATA SHALL BE STORED A MINIMUM OF 3 YEARS ON THE CLOUD. DATA SAMPLE RATE SHALL BE A MAXIMUM OF 60 SECONDS.

F. TEMPERATURE CONTROL SYSTEM

1. SPACE TEMP CONTROL (HEATING)

UNIT MODULATES THE BURNER FLAME (CURRENT SUPPLY IN THE CASE OF ELECTRIC HEATING) TO ACCURATELY MAINTAIN THE DESIRED SPACE TEMPERATURE SET POINT AND COMPENSATE FOR FLUCTUATIONS IN ENTERING AIR TEMPERATURE, AIR VOLUME AND % OF OA USING HEATING PID CONTROLS DESIGNED SPECIFICALLY FOR THE DOAS. MINIMUM AND MAXIMUM DISCHARGE SET POINTS CAN BE SET TO LIMIT THE TEMPERATURE ENTERING THE SPACE. AN OPTIONAL ADDITIONAL HMI OR ROOM THERMOSTAT CAN BE USED TO DETERMINE THE SPACE TEMPERATURE. IN THE CASE THAT NO TEMPERATURE SENSOR IS AVAILABLE IN THE SPACE, THE UNIT WILL USE AN INTERNAL RETURN TEMPERATURE SENSOR.

2. SPACE TEMP CONTROL (COOLING)

UNIT MODULATES THE COMPRESSOR FREQUENCY TO ACCURATELY MAINTAIN THE DESIRED SPACE TEMPERATURE SET POINT AND COMPENSATE FOR FLUCTUATIONS IN ENTERING AIR TEMPERATURE, AIR VOLUME AND % OF OA USING COOLING (HEATING WHEN IN HEAT PUMP MODE) PID CONTROLS DESIGNED SPECIFICALLY FOR THE DOAS. MINIMUM AND MAXIMUM DISCHARGE SET POINTS CAN BE SET TO LIMIT THE TEMPERATURE ENTERING THE SPACE. AN OPTIONAL ADDITIONAL HMI OR ROOM THERMOSTAT CAN BE USED TO DETERMINE THE SPACE TEMPERATURE. IN THE CASE THAT NO TEMPERATURE SENSOR IS AVAILABLE IN THE SPACE, THE UNIT WILL USE AN INTERNAL RETURN TEMPERATURE SENSOR.

3. SPACE HUMIDITY CONTROL (DEHUMIDIFICATION)

UNIT MODULATES THE COMPRESSOR FREQUENCY TO ACCURATELY MAINTAIN A DESIRED EVAPORATIVE COIL DEW POINT MEASURED VIA A COIL MOUNTED TEMPERATURE SENSOR BETWEEN THE EVAPORATIVE AND HOT GAS REHEAT COILS. A FULLY MODULATING HOT GAS REHEAT VALVE SHALL UTILIZE EXCESS WASTE HEAT FROM THE CONDENSING SECTION FEEDING THE HOT GAS REHEAT COIL WITH THE PRECISE AMOUNT OF HEAT NEEDED TO ACCURATELY REHEAT THE AIRSTREAM IN ORDER TO MAINTAIN A DESIRED SPACE TEMPERATURE COMPENSATING FOR FLUCTUATIONS IN ENTERING AIR TEMPERATURE, AIR VOLUME AND % OF OA USING PROPRIETARY DEHUMIDIFICATION PID CONTROLS DESIGNED SPECIFICALLY FOR THE DOAS.

G. ACTIVATION CONTROLS:

1. ACTIVATE BASED ON INTAKE (HEATING)

UNIT WILL ACTIVATE HEATING WHEN THE INTAKE TEMPERATURE DROPS BELOW THE DESIRED SET POINT.

2. ACTIVATE BASED ON INTAKE (COOLING)

UNIT WILL ACTIVATE COOLING WHEN THE INTAKE TEMPERATURE RISES ABOVE THE DESIRED SET POINT.

3. ACTIVATE BASED ON INTAKE (DEHUMIDIFICATION)

UNIT WILL ACTIVATE DEHUMIDIFICATION WHEN THE INTAKE CONDITIONS RISE ABOVE THE DESIRED INTAKE SET POINT. WITH ACTIVATION SET POINTS CONFIGURED TO A DEW POINT, RELATIVE HUMIDITY OR A COMBINATION OF DEW POINT/RELATIVE HUMIDITY.

4. ACTIVATE BASED ON SPACE (HEATING)

UNIT WILL ACTIVATE HEATING WHEN THE SPACE TEMPERATURE DROPS BELOW THE DESIRED SET POINT.

5. ACTIVATE BASED ON SPACE (COOLING)

UNIT WILL ACTIVATE COOLING WHEN THE SPACE TEMPERATURE RISES ABOVE THE DESIRED SET POINT.

6. ACTIVATE BASED ON SPACE (DEHUMIDIFICATION)

UNIT WILL ACTIVATE DEHUMIDIFICATION WHEN THE SPACE SET POINT RISES ABOVE THE DESIRED SPACE SET POINT. WITH ACTIVATION SET POINTS CONFIGURED TO A DEW POINT, RELATIVE HUMIDITY OR A COMBINATION OF DEW POINT/RELATIVE HUMIDITY.

7. ACTIVATE BASED ON BOTH (HEATING)

UNIT WILL ACTIVATE HEATING WHEN THE SPACE AND INTAKE TEMPERATURE DROP BELOW THE DESIRED SET POINT.

8. ACTIVATE BASED ON BOTH (COOLING)

UNIT WILL ACTIVATE COOLING WHEN THE SPACE AND INTAKE TEMPERATURE RISE ABOVE THE DESIRED SET POINT.

9. ACTIVATE BASED ON BOTH (DEHUMIDIFICATION)

UNIT WILL ACTIVATE DEHUMIDIFICATION WHEN THE SPACE AND INTAKE SET POINT RISE ABOVE THE DESIRED SPACE AND INTAKE SET POINT. WITH ACTIVATION SET POINTS CONFIGURED TO A DEW POINT, RELATIVE HUMIDITY OR A COMBINATION OF DEW POINT/RELATIVE HUMIDITY.

10. ACTIVATE BASED ON EITHER (HEATING)

UNIT WILL ACTIVATE HEATING WHEN THE SPACE OR INTAKE TEMPERATURE DROPS BELOW THE DESIRED SET POINT.

11. ACTIVATE BASED ON EITHER (COOLING)

UNIT WILL ACTIVATE COOLING WHEN THE SPACE OR INTAKE TEMPERATURE RISES ABOVE THE DESIRED SET POINT.

12. ACTIVATE BASED ON EITHER (DEHUMIDIFICATION)

UNIT WILL ACTIVATE DEHUMIDIFICATION WHEN THE SPACE OR INTAKE SET POINT RISES ABOVE THE DESIRED SPACE OR INTAKE SET POINT. WITH ACTIVATION SET POINTS CONFIGURED TO A DEW POINT, RELATIVE HUMIDITY OR A COMBINATION OF DEW POINT/RELATIVE HUMIDITY.

13. ACTIVATE BASED ON STAT (HEATING)

UNIT WILL ACTIVATE HEATING WHEN THE SPACE THERMOSTAT SENDS A 24V SIGNAL TO W AND G ON THE MAIN CONTROL BOARD. UNIT WILL MODULATE TO MAINTAIN A CONSTANT DISCHARGE HEAT SET POINT.

14. ACTIVATE BASED ON STAT (COOLING)

UNIT WILL ACTIVATE COOLING WHEN THE SPACE THERMOSTAT SENDS A 24V SIGNAL TO Y AND G ON THE MAIN CONTROL BOARD. UNIT WILL MODULATE TO MAINTAIN A CONSTANT DISCHARGE COOL SET POINT.

2.10 ROOF CURB

A. UNIT SHALL BE FACTORY ASSEMBLED, AND CONSTRUCTED OF 18GA GALVANIZED STEEL, WITH OPTIONAL 16GA AVAILABLE.

B. CURB SHALL BE FULLY INSULATED WITH 1" ACOUSTICAL AND THERMAL INSULATION.

C. CURB SHALL BE FACTORY OUTFITTED WITH DUCT SUPPORT HANGERS.

2.11 VARIABLE FREQUENCY DRIVES

A. PROVIDE VARIABLE FREQUENCY DRIVE FOR THE COMPRESSOR AS PART OF THE AC UNIT. VFD SHALL BE FURNISHED AND INSTALLED TO MEET THE PERFORMANCE SET FORTH IN THE SCHEDULE AND AS SPECIFIED UNDER ANOTHER SECTION OF THIS WORK.

1. ACCESSORIES TO BE FURNISHED AND MOUNTED BY THE DRIVE MANUFACTURER AND CONTAINED IN A SINGLE ENCLOSURE. (THE USE OF MORE THAN ONE ENCLOSURE IS NOT ACCEPTABLE).

B. PROVIDE VARIABLE FREQUENCY DRIVE FOR SPEED CONTROL ON ALL NON-ECM DIRECT DRIVE SUPPLY FANS.

C. ALL VFDS SHALL PROVIDE THE FOLLOWING INHERENT PROTECTIONS:

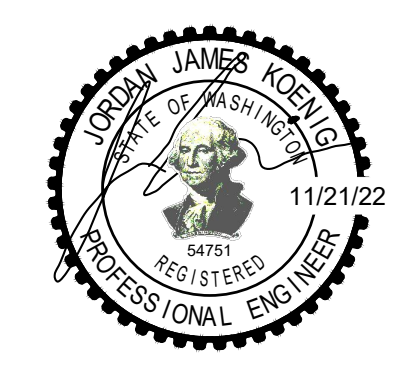
- 1. PHASE PROTECTION.
2. BROWNOUT PROTECTION.
3. OVERLOAD/OVERHEAT PROTECTION.
4. SOFT STARTS TO PROTECT BEARINGS/HARDWARE.
5. LOW & HIGH VOLTAGE & OVER-TORQUE PROTECTIONS.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE AREAS AND CONDITIONS UNDER WHICH PACKAGED UNITS ARE TO BE INSTALLED. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN MANNER ACCEPTABLE TO INSTALLER.

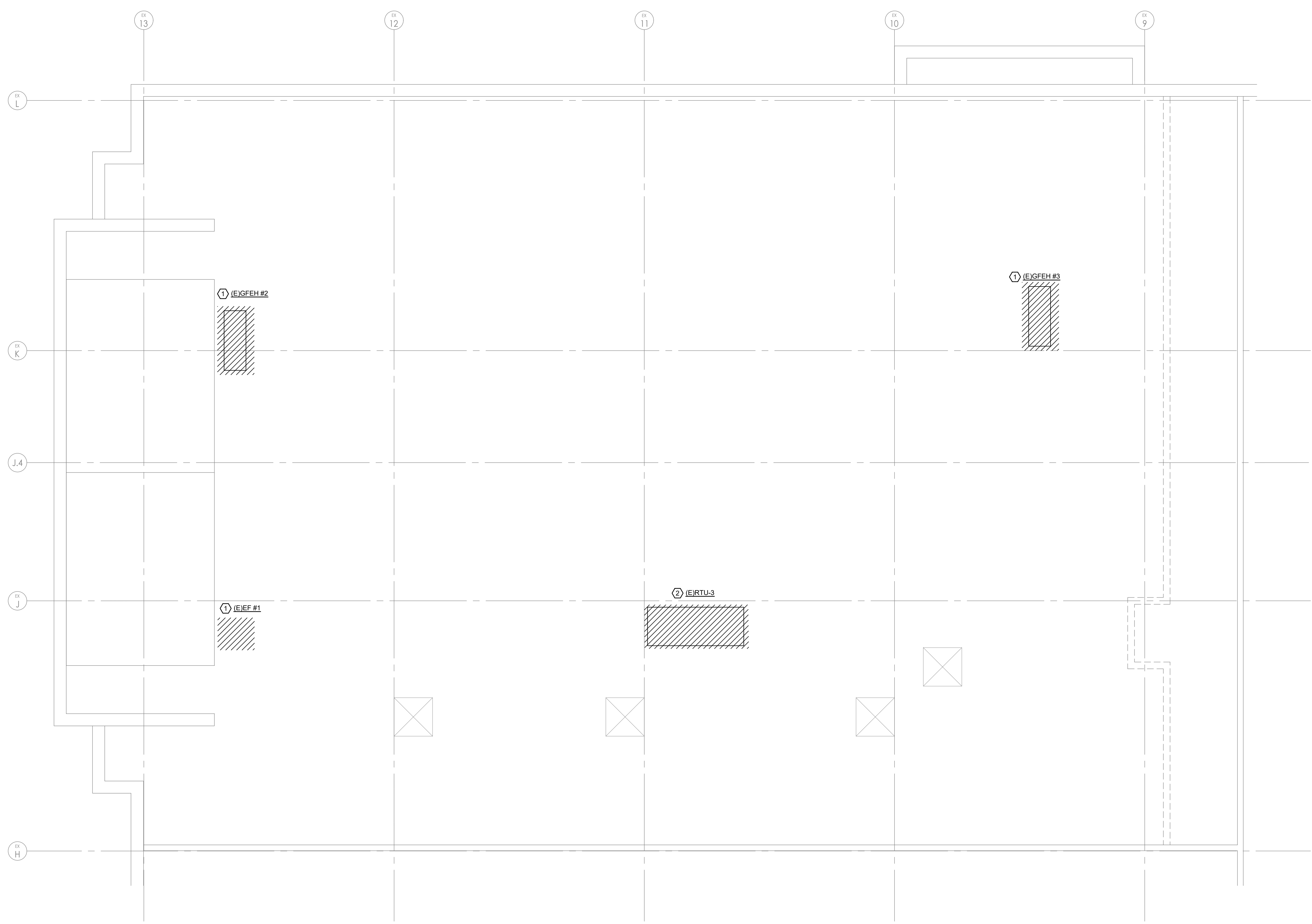
3.



architect seal

City of Puyallup  
 Development & Permitting Services  
 ISSUED PERMIT  
 Building Planning  
 Engineering Public Works  
 Fire Traffic

- KEY DEMOLITION NOTES: (#)**
- EXISTING EQUIPMENT TO BE REMOVED COMPLETE WITH ROOF CURB. ALL ASSOCIATED ACCESSORIES AND ELECTRICAL SERVICE. DEMOLISHED EQUIPMENT SHALL BE REMOVED FROM THE SITE AND REMAIN THE PROPERTY OF THE OWNER (DISPOSED OF PROPERLY), UNLESS OTHERWISE NOTED. PATCH ALL UNUSED ROOF PENETRATIONS. REMOVAL OF THE EQUIPMENT SHALL BE DONE BY GENERAL CONTRACTOR. REFER TO ARCHITECTURAL PLANS FOR ALL ROOF PATCHING REQUIREMENTS.
  - EXISTING EQUIPMENT TO BE REMOVED COMPLETE WITH ALL ASSOCIATED ACCESSORIES AND ELECTRICAL SERVICE. DEMOLISHED EQUIPMENT SHALL BE REMOVED FROM THE SITE AND REMAIN THE PROPERTY OF THE OWNER (DISPOSED OF PROPERLY), UNLESS OTHERWISE NOTED. UTILIZE EXISTING ROOF TOP UNIT SUPPORTS AND ROOF PENETRATION.



Client  
 Goldfish Swim School  
 H&H Swim School  
 Puyallup, WA  
 F.A. #272

Brand Standards  
 All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



issue / revision date
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02-09-23 Elect. Review Comments

drawn by <b>Z.S.</b>	checked by <b>W.V.</b>
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Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373

project: sheet title:  
**Roof - Mechanical Demolition Plan**

**dma**  
 DORCHEN / MARTIN  
 Dorchen/Martin Associates, Inc.  
 Architects/Planners  
 29895 Greenfield Rd., Suite 107  
 Southfield, Michigan 48076  
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 www.dorchenmartin.com

job number 22006	sheet number MD.101
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**Roof - Mechanical Demolition Plan**  
 3/16" = 1'-0"

**PRCTI20221793**

**ELECTRICAL GENERAL NOTES:**

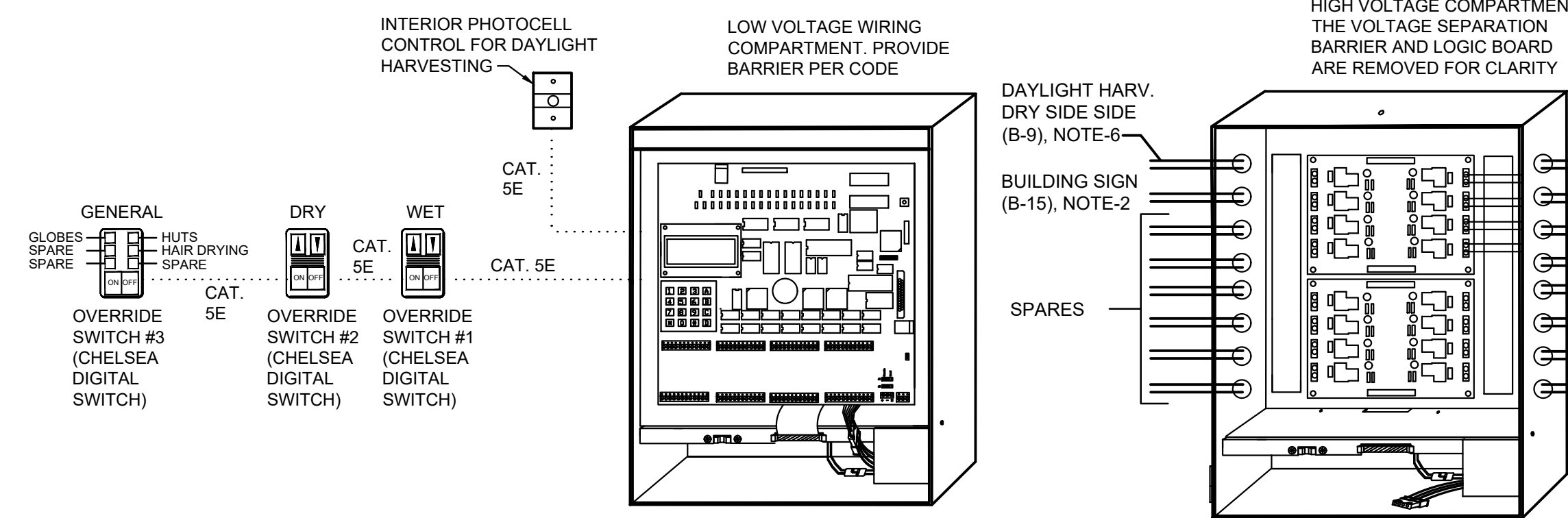
- FEEDER SIZES NOTED ARE FOR COPPER CONDUCTORS, UNLESS NOTED OTHERWISE. IF ALUMINUM CONDUCTORS ARE USED FOR FEEDERS RATED 100A AND LARGER, CONTRACTOR SHALL PROVIDE FEEDERS WITH EQUAL AMPACITIES AND ADJUST WIRE AND CONDUITS SIZES ACCORDINGLY.
- COORDINATE ELECTRICAL WORK REQUIREMENTS WITH OTHER TRADES, TENANT AND LANDLORD PRIOR TO BID.
- REFER TO ARCHITECTURAL SPECIFICATIONS FOR SCHEDULE OF ALTERNATES, COORDINATE ALL DEDUCT AND ADD ALTERNATE WORK REQUIREMENTS WITH ARCHITECT AND OTHER TRADES PRIOR TO BID.
- COORDINATE WITH ARCHITECT FOR ALL LIGHTING FIXTURES FINISHES PRIOR TO ORDERING.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ENGRAVED NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT (PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, ETC.) INDICATING THE IDENTITY OF THE EQUIPMENT, CONSISTENT WITH THE NOMENCLATURE ON THE DRAWINGS. INDICATE THE POWER SOURCE LOCATION FOR EACH.
- EACH ELECTRICAL SYSTEM SHALL BE LABELED WITH THE INSTALLING CONTRACTOR'S COMPANY NAME AND CONTACT INFORMATION.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ACCURATE AS-BUILT RED-LINE DRAWINGS TO THE OWNER AT THE COMPLETION OF THE PROJECT. PHOTOGRAPHS OF ALL UNDERGROUND WORK SHALL BE PROVIDED TO THE OWNER FOR FUTURE REFERENCE.
- ALL ELECTRICAL WORK SHALL COMPLY WITH CURRENT STATE CONSTRUCTION AND ENERGY CODES, THE CURRENT INTERNATIONAL SWIMMING POOL AND SPA CODE, CURRENT FIRE PREVENTION CODE, AND THE CURRENT STATE NATIONAL ELECTRICAL CODE.
- DO NOT ROUTE UNDERGROUND WIRINGS BENEATH THE POOL OR WITHIN 5 FEET HORIZONTALLY FROM THE INSIDE WALL OF THE POOL, UNLESS THE WIRING IS NECESSARY TO SUPPORT POOL EQUIPMENT, PER NEC 680.10.
- ALL FEEDERS AND BRANCH CIRCUITS SHALL BE PROVIDED WITH A SEPARATE GREEN-INSULATED EQUIPMENT GROUNDING CONDUCTOR.
- AREAS WHERE POOL SANITATION CHEMICALS ARE STORED, AS WELL AS AREAS WITH CIRCULATION PUMPS, AUTOMATIC CHLORINATORS, FILTER, POOL DECK, AND WET STORAGE AREAS, AND SIMILAR LOCATIONS SHALL BE CONSIDERED TO BE A CORROSIVE ENVIRONMENT. THE AIR IN SUCH AREAS SHALL BE CONSIDERED TO BE LADEN WITH ACID, CHLORINE, AND BROMINE VAPORS, OR ANY COMBINATION THEREOF, AND ANY LIQUIDS OR CONDENSATIONS IN THESE AREAS SHALL BE CONSIDERED TO BE LADEN WITH ACIDS, CHLORINE, AND BROMINE VAPORS, OR ANY COMBINATION THEREOF. ADDITIONALLY, THE POOL DECK, SHOWERS AND WET STORAGE AREAS SHALL BE CONSIDERED INDOOR WET LOCATIONS.
- ACCEPTABLE WIRING METHODS IN THE AREAS DESCRIBED ABOVE SHALL BE LISTED AND IDENTIFIED FOR USE IN SUCH AREAS. RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, RIGID PVC CONDUIT, AND REINFORCED THERMOSETTING RESIN CONDUIT SHALL BE CONSIDERED TO BE RESISTANT TO THE CORROSIVE ENVIRONMENT SPECIFIED ABOVE. METALLIC CONDUIT SYSTEM SHALL BE PROTECTED FROM CORROSION PER NEC ART. 300.6 REQUIREMENTS, AND NON-METALLIC CONDUIT SYSTEMS SHALL BE LISTED FOR CHEMICAL EXPOSURE AS REQUIRED BY NEC ART. 300.6(C). PROVIDE A 1/4" AIR GAP BETWEEN THE WALL OR SUPPORTING SURFACE AND THEN ENTER WIRING SYSTEM, INCLUDING BOXES, FITTINGS, RACEWAYS AND CABLE.
- GROUNDING AND BONDING TERMINALS SHALL BE IDENTIFIED FOR USE IN WET AND CORROSIVE ENVIRONMENTS. FIELD-INSTALLED GROUNDING AND BONDING CONNECTIONS IN DAMP, WET, OR CORROSIVE ENVIRONMENTS SHALL BE COMPOSED OF COPPER, COPPER ALLOY, OR STAINLESS STEEL AND SHALL BE LISTED FOR DIRECT BURIAL USE.
- ALL WIRING INSTALLATIONS SHALL BE FREE FROM SHORT CIRCUITS AND GROUND FAULTS BEFORE ENERGIZING PER NEC 110.7.

**PROJECT SPECIFIC NOTES:**

- APPLICABLE CODES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, THE FOLLOWING:

2018 INTERNATIONAL BUILDING CODE (IBC)  
 2018 WASHINGTON STATE ENERGY CODE (WSEC)  
 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)  
 2018 INTERNATIONAL FIRE CODE (IFC)  
 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE (ISPSC)  
 2020 NATIONAL ELECTRICAL CODE (NEC)  
 2009 ICC ANSI STANDARD A117.1-2009

- CONTRACTOR SHALL PROVIDE NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT.
- ALL WIRING AND BUSSING SHALL BE COPPER, UNLESS OTHERWISE NOTED.
- A SEPARATE EQUIPMENT GROUNDING CONDUCTORS, SIZED PER NEC, SHALL BE INSTALLED WITH ALL CIRCUIT CONDUCTORS.



**INTERIOR LIGHTING & BUILDING MOUNT SIGN CONTROL SYSTEM DIAGRAM**

**NOTES:**

- LIGHTING RELAY PANEL 'LRP' SHALL BE ACUITY CONTROLS: 'ARP' #ARP INTENC16 16SPR MVOLT 2VB SC SM DTC OR APPROVED EQUAL.
- TIME CLOCK 'ON', TIME CLOCK 'OFF', SET TO RUN AUTOMATICALLY DURING HOURS OF OPERATION.
- MANUAL-ON, TIME-CLOCK OFF, MANUAL RAISE/LOWER, ON-OFF CONTROLS VIA OVERRIDE SWITCH #1 (INCLUDE 0-10V WIRING TO EACH FIXTURE).
- MANUAL-ON, TIME-CLOCK OFF, MANUAL RAISE/LOWER, ON-OFF CONTROLS VIA OVERRIDE SWITCH #2 (INCLUDE 0-10V WIRING TO EACH FIXTURE).
- MANUAL-ON, TIME-CLOCK OFF, ON-OFF CONTROLS VIA OVERRIDE SWITCH #3, LOCAL LINE VOLTAGE SENSORS AND/OR SWITCHES (WHERE SHOWN ON PLANS).
- INDOOR PHOTOCCELL SHALL OVERRIDE SWITCH #1, #2 OR #3 FOR AUTOMATIC DAYLIGHT HARVESTING CONTROL (WHERE SHOWN ON PLANS).
- INTEGRAL, DIGITAL TIME CLOCK SHALL HAVE A MINIMUM 7-DAY CLOCK, WITH 7 DAY TYPES PER WEEK, HOLIDAY SHUT-OFF AND ASTRONOMIC CAPABILITIES. MINIMUM 10-HOUR BATTERY BACK-UP SHALL PREVENT LOSS OF SETTINGS DURING POWER OUTAGE.
- OVERRIDE SWITCHES SHALL NOT OVERRIDE TIME SCHEDULE FOR MORE THAN 2 HOURS.

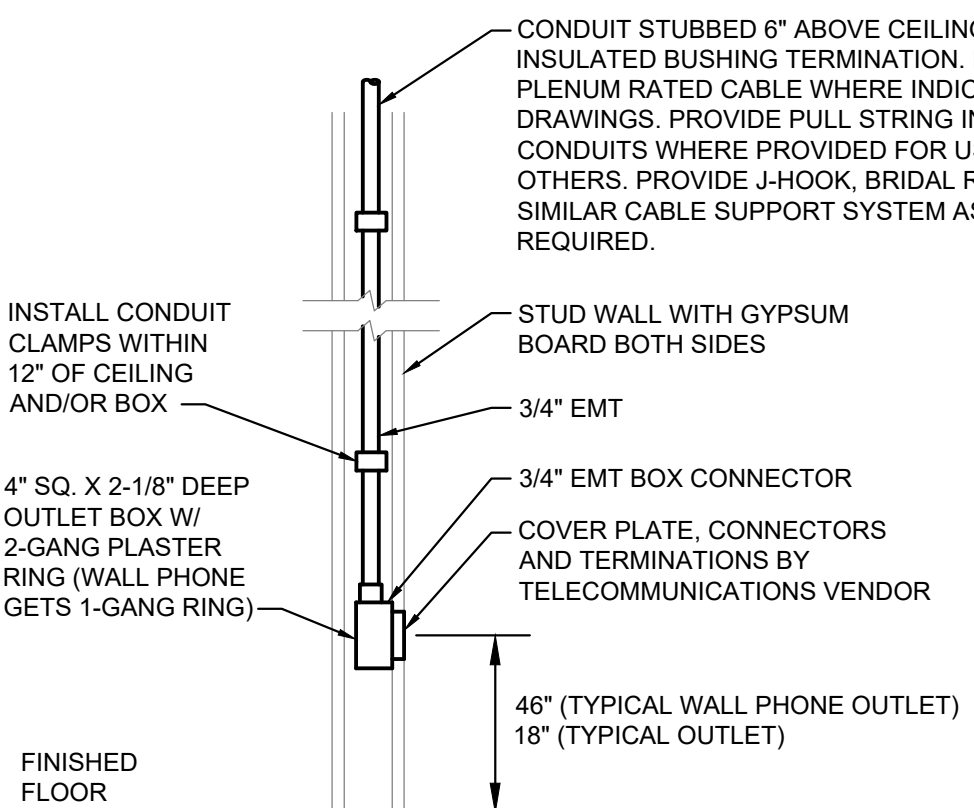
**ABBREVIATIONS**

NOTE: ALL ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT.

A.C.	ALTERNATING CURRENT
AC	ABOVE COUNTERTOP
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR TO CENTERLINE
AFG	ABOVE FINISHED GRADE TO CENTERLINE
C	CONDUIT
CKT/CIRC	CIRCUIT
CTC	CURRENT TRANSFORMER CABINET
DP	DISTRIBUTION PANEL
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
(E/R)	EXISTING/RELOCATED
EWC	ELECTRIC WATER COOLER
FURN	FURNICE
GRD	GROUNDING
MDP	MAIN DISTRIBUTION PANEL
NIC	NOT IN CONTRACT
PP	POWER PANEL
RTU	ROOFTOP UNIT
UC	UNDER COUNTER
UON	UNLESS OTHERWISE NOTED
WH	WATER HEATER
WP	WEATHERPROOF

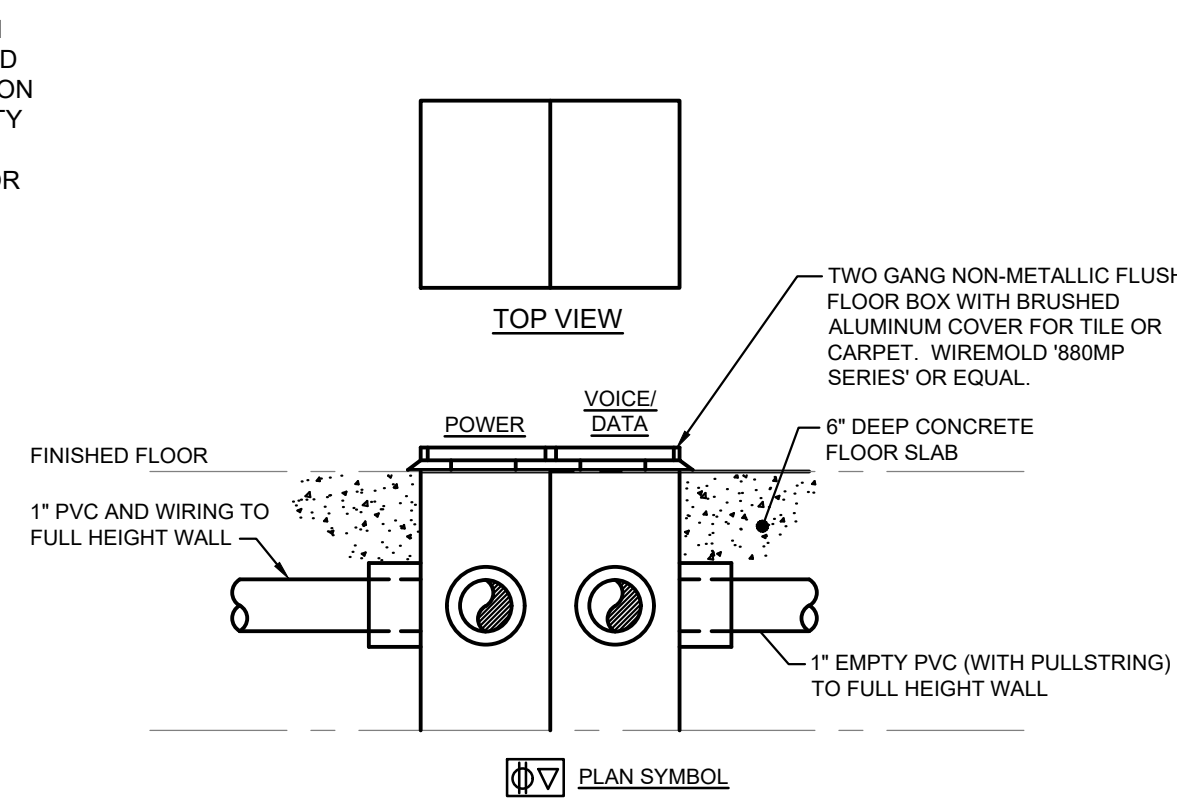
**ELECTRICAL SYMBOLS (ALL MOUNTING HEIGHTS NOTED ARE TO CENTERLINE OF DEVICE)**

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT



**TYPICAL COMMUNICATIONS OUTLET DETAIL**

N. T. S.



**POWER/VOICE/DATA FLUSH FLOOR BOX DETAIL**

N. T. S.

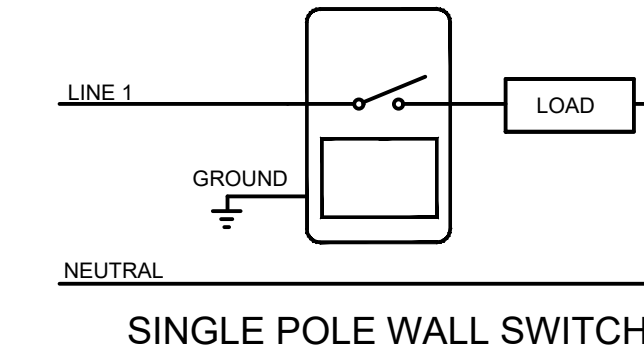
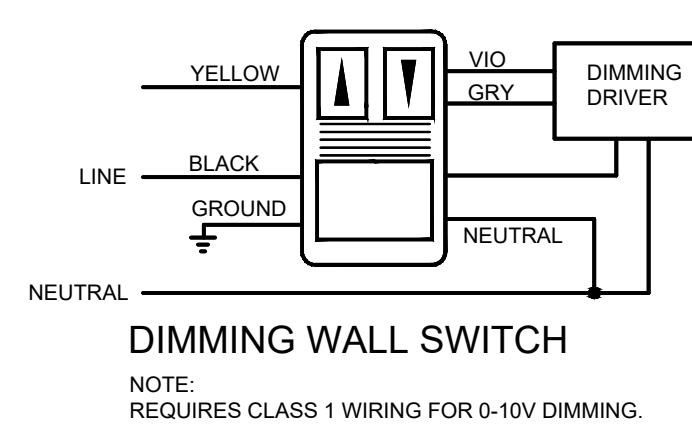
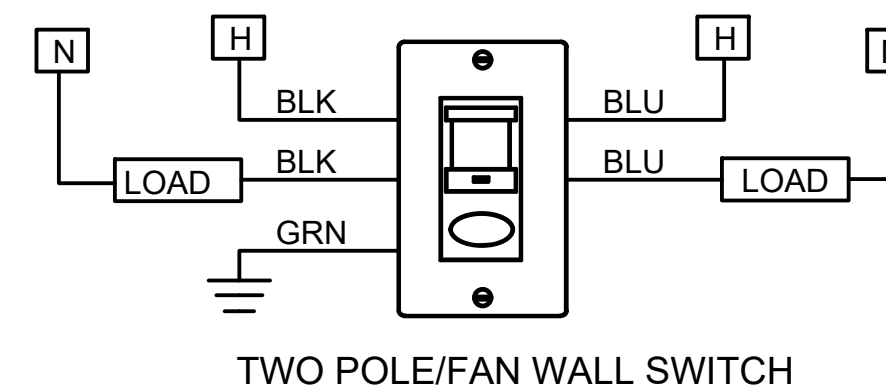
**RELAY INFORMATION:**

QTY 16 - 20 AMP 120/277VAC SINGLE POLE LATCHING RELAYS WITH 0-10V DIMMING OUTPUTS. INDIVIDUAL STATUS LED MANUAL OVERRIDES 10 AWG MAXIMUM WIRE SIZE 10 MILLION OPERATIONS 10 YEAR WARRANTY

**TYPICAL RELAY WIRING:**

- TYPES 'A' FIXTURES (B-1), WET SIDE, NOTE-3
- TYPES 'A' FIXTURES (B-3), WET SIDE, NOTE-3
- TYPES 'B' FIXTURES (B-5), DRY SIDE, NOTE-4
- TYPES 'B' FIXTURES (B-7), DRY SIDE, NOTE-4
- TYPE 'E' (B-9), CHANGING HUTS, NOTE-5
- TYPE 'F' FIXTURES (B-5) GLOBES, NOTE-5
- TYPE 'C' (B-7), HAIR DRYING, NOTE-5
- SPARE

LIGHTING CONTROL PANEL POWER SUPPLY: 120/277VAC DOUBLE TAP TRANSFORMER (B-13)



**TYPICAL OCCUPANCY SENSOR WALL SWITCH WIRING DIAGRAMS**

N. T. S.

**LIGHTING FIXTURE SCHEDULE (Provided by Owner, installed by Electrical Contractor)**

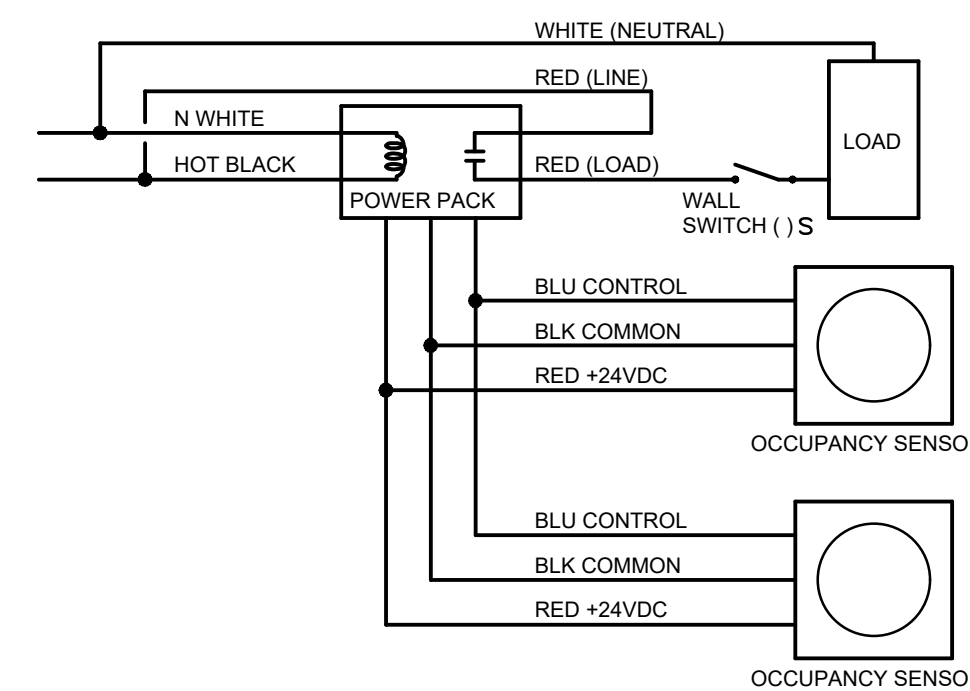
TYPE	DESCRIPTION	MFR.	MODEL NO.	LAMP	VOLTAGE	FINISH/NOTES
'A'	CORD HUNG HIGH BAY FIXTURE, FULLY GASKETED WITH CLEAR ACRYLIC REFLECTOR AND IP65 RATING	SIGMA LUMINOUS 'RAZOR SERIES'	#RZR-04-150W-UNV-50K-120-WH #S-ACC-ACRYLIC MOON S-ACC-ACRYLIC MOON B-LENS	150W LED 0-10V DIMMING 5000K	120V	WHITE CORD SET AND CANOPY, NATATORIUM FINISH (FIELD VERIFY CORD LENGTH IN FIELD)
'B'	CORD HUNG HIGH BAY FIXTURE, FULLY GASKETED WITH ACRYLIC WIDE BAY REFLECTOR AND IP65 RATING	SIGMA LUMINOUS 'RAZOR SERIES'	#RZR-04-150W-UNV-50K-120-WH S-ACC-ACRYLIC MOON B-LENS	150W LED 0-10V DIMMING 5000K	120V	WHITE CORD SET AND CANOPY, NATATORIUM FINISH (FIELD VERIFY CORD LENGTH IN FIELD)
'C'	TRACK HEAD ON 48" LONG PENDANT MOUNT TRACK, BLACK FINISH.	JUNO LIGHTING	#R606L-40K-80CRI-PDIM-SP-BL WITH #T-4FT-BL TRACK & #T38-BL LIVE END FEED	(6) 13W LED PHASE DIMMING 4000K	120V	LAMPHOLDER, TRACK, AND ALL ACCESSORIES SHALL HAVE BLACK FINISH
'D'	WALL MOUNTED GOOSENECK LIGHT FIXTURE, WHITE FINISH AND PRISMATIC GLOBE	BASELIGHT	#UCR16-44-E1-LW1M-12W-4K-LDM120-PR3	12W LED 0-10V DIMMING 4000K	120V	FIXTURE & MOUNTING BRACKET WITH WHITE FINISH, PRISMATIC GLASS
'E'	WALL MOUNTED LIGHT FIXTURE, CAST ALUMINUM HOUSING & GUARD, WHITE GLASS GLOBE	BOCK LIGHTING FIXTURE WITH TCP LAMP	#P392-SCN-WHT-GU24 WITH #LH4A21GUD2550K LAMP	19W LED DIMMABLE 5000K	120V	WHITE FIXTURE, MOUNTING BRACKET & ARM
'F12'	12" DIAMETER CORD HUNG ACRYLIC GLOBE FIXTURE (VERIFY LOCATION & MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN)	CAPITAL ELECTRIC LIGHTING	#CAP16 WITH CAPCORD WITH HALCO #A21FR17/850-DIM-LED4 LAMP	17W LED DIMMABLE 5000K	120V	20'-0" WHITE CORD & CANOPY (FIELD VERIFY CORD LENGTH)
'F16'	12" DIAMETER CORD HUNG ACRYLIC GLOBE FIXTURE (VERIFY LOCATION & MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN)	CAPITAL ELECTRIC LIGHTING	#CAP20 WITH CAPCORD WITH HALCO #A21FR17/850-DIM-LED4 LAMP	17W LED DIMMABLE 5000K	120V	20'-0" WHITE CORD & CANOPY (FIELD VERIFY CORD LENGTH)
'F20'	20" DIAMETER CORD HUNG ACRYLIC GLOBE FIXTURE (VERIFY LOCATION & MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN)	CAPITAL ELECTRIC LIGHTING	#CAP12 WITH CAPCORD WITH HALCO #A21FR17/850-DIM-LED4 LAMP	17W LED DIMMABLE 5000K	120V	20'-0" WHITE CORD & CANOPY (FIELD VERIFY CORD LENGTH)
'G'	4'-0" SUSPENDED STRIP FIXTURE (SURFACE MOUNT AS INDICATED ON PLAN)	ALPHALITE INC.	#ILL-4H (35S2)-840	35W LED 0-10V DIMMING 5000K	120/277V	HOUSING WITH BAKED WHITE ENAMEL FINISH & DIFFUSED LENS
'H'	4'-0" CHAIN HUNG VAPORTIGHT LIGHT FIXTURE, UL WET LISTED	HALCO LIGHTING	#LVPT-4'-WS-CS-U (7000 LUMEN OUTPUT)	40-60W LED SELECTABLE CCT 0-10V DIMMING	120/277V	POLYCARBONATE HOUSING WITH FROSTED LENS & STAINLESS STEEL CLIPS
'J'	2 x 4 LED BACKLIT FLAT PANEL	ALPHALITE INC.	#BLP-24-WS-CS-U (5284 LUMEN OUTPUT)	30-50W LED SELECTABLE CCT 0-10V DIMMING	120/277V	ALUMINUM HOUSING WITH WHITE FINISH AND DIFFUSED LENS
'K'	8" ROUND SURFACE MOUNT SHALLOW LENS DOWNLIGHT	HALCO LIGHTING	#SDL8-20-CS	20W LED SELECTABLE CCT 4000K	120V	ALUMINUM HOUSING WITH WHITE FINISH & FROSTED PC LENS
'L'	4'-0" LONG SURFACE MOUNT WRAP AROUND FIXTURE	LITHONIA LIGHTING	#BL4-4000L-80CRI-MIN10-GZT-MVOLT	32W LED 0-10V DIMMING 4000K	120/277V	WHITE FINISH WITH PRISMATIC ACRYLIC LENS
'EM1'	SURFACE/PENDANT MOUNT TWIN HEAD EMERGENCY LIGHTING UNIT BATTERY BACK-UP	LITHONIA LIGHTING	#ELM2L	(2) 2.4W LED ADJUSTABLE LAMPS	120/277V	WHITE THERMOPLASTIC HOUSING (MOUNTING AS INDICATED ON PLAN)
'EM2'	SURFACE/PENDANT MOUNT TWIN HEAD EMERGENCY LIGHTING UNIT BATTERY BACK-UP	LITHONIA LIGHTING	#ELM4L	(2) 2.4W LED ADJUSTABLE LAMPS	120/277V	WHITE THERMOPLASTIC HOUSING (MOUNTING AS INDICATED ON PLAN)
'EX'	SURFACE/PENDANT MOUNT SINGLE FACE EXIT SIGN WITH BATTERY WITH BACK-UP, REMOTE CAPABLE	LITHONIA LIGHTING	#LQM-SW-3G-120/277-EL-N	6W LED	120/277V	WHITE THERMOPLASTIC HOUSING & GREEN LETTERS (MOUNTING AS INDICATED ON PLAN)
'EX2'	UNIVERSAL MOUNT COMBINATION EXIT SIGN/EMERGENCY BATTERY UNIT, REMOTE CAPABLE	LITHONIA LIGHTING	#LHOM-LED-G-HO	6W LED WITH LED (2) ADJUSTABLE HEADS	120/277V	WHITE THERMOPLASTIC HOUSING & GREEN LETTERS
'EXR'	SURFACE MOUNT REMOTE TWIN HEAD EMERGENCY LIGHTING UNIT, WET LISTED	LITHONIA LIGHTING	#ELMRW-LP220L-DNAXD	(2) 2.4W LED	POWER FROM INDOOR UNIT	DIE-CAST LAMP HOUSING WITH NATURAL ALUMINUM FINISH

**LIGHTING FIXTURE NOTES:**

- ALL EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES SHALL BE PROVIDED WITH BATTERY BACK-UP PROVIDING MINIMUM OF 90 MINUTES OF ILLUMINATION UPON LOSS OF NORMAL AC POWER.
- ALL FIXTURES ARE PROVIDED WITH DIMMABLE LED LAMPS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CHAIN HANGING KITS, PENDANTS AND SUSPENSION CABLES.

**AUTOMATIC LIGHTING CONTROLS NOTES:**

- ALL OCCUPANCY SENSORS SHALL BE MOUNTED TO A VIBRATION-FREE SURFACE, WITH SENSORS FACING THE AREA OF COVERAGE. PLACE AT LEAST 48 FROM SUPPLY AIR GRILLES, 72" FROM HORIZONTAL DISCHARGE DUCTS AND 6" FROM POWER PACKS.
- SET TIME DELAY OF EACH SENSOR TO 15 MINUTES.



**MULTIPLE OCCUPANCY SENSOR WIRING DIAGRAM**

N. T. S.

**AUTOMATIC LIGHTING CONTROL LEGEND**

(CATALOG NUMBERS BASED ON 'SENSOR SWITCH' EQUIPMENT UNLESS OTHERWISE NOTED)

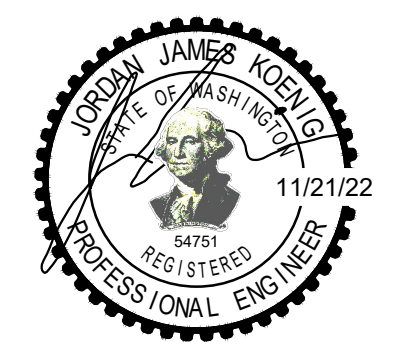
- 1 WSXA PDT WH WALL SWITCH/SENSOR, AUTO-ON/AUTO-OFF
- 2 WSXA PDT SA WH WALL SWITCH/SENSOR, MANUAL-ON/AUTO-OFF
- 3 WSXA PDT D SA WH WALL SWITCH/SENSOR, PASSIVE DUAL TECHNOLOGY, OCCUPANCY CONTROLLED DIMMING, MANUAL-ON/AUTO-OFF
- 4 WSXA PDT SA WH LT WALL SWITCH/SENSOR, PASSIVE DUAL TECHNOLOGY, LOW HUMIDITY, MANUAL-ON/AUTO-OFF
- 5 WSXA PDT 2P FAN WH LT WALL SWITCH/SENSOR, PASSIVE DUAL TECHNOLOGY, LOW HUMIDITY, 2-POLE DUAL, AUTO-ON/ AUTO-OFF
- 6 PP20 120/277 VAC RELAY/POWER PACK. (MOUNT IN ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED)
- 7 CMR 9 CEILING MOUNT OCCUPANCY SENSOR, PASSIVE DUAL TECHNOLOGY, SMALL MOTION/STANDARD RANGE 360 DEGREE LENS, ISOLATED LOW VOLTAGE RELAY
- 8 nCMR PDT 9 CEILING MOUNT SENSOR, PASSIVE DUAL TECHNOLOGY, SMALL MOTION/STANDARD RANGE 360 DEGREE LENS, ISOLATED LOW VOLTAGE RELAY (nLIGHT)
- 9 nCM ADCX RJB NOT USED
- 10 nPP20 PL 120/277 VAC POWER PACK/RELAY PACK PLUG LOAD CONTROL (nLIGHT)

LOW VOLTAGE WIRING

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Client  
 Goldfish Swim School  
 H&H Swim School  
 Puyallup, WA  
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drawn by M.W. checked by J.K.

Goldfish Swim School  
 South Hill Mall - Unit 900-30  
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 Puyallup, WA 98373

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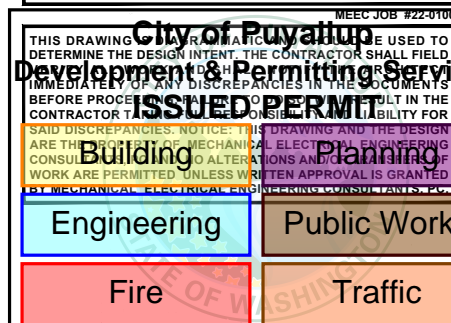
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 DORCHEN / MARTIN  
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PRCTI20221793

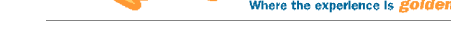


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drawn by  
M.W.

checked by  
J.K.

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
project:  
sheet title:

**dma**  
DORCHEN/MARTIN  
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Southfield, Michigan 48076  
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job number 22006  
sheet number E.101

**GENERAL NOTES:**

- CONNECT ALL EXIT AND EMERGENCY LIGHTING FIXTURES TO LOCAL LIGHTING CIRCUIT, AHEAD OF ALL SWITCHES/CONTROLS, PER N.E.C.
- CONNECT NIGHT LIGHTS (NL) TO CIRCUIT AS NOTED, AHEAD OF ANY SWITCHING. PROVIDE 'LOCK-ON' BREAKER.
- EXIT AND EMERGENCY LIGHTING FIXTURES SHALL PROVIDE MINIMUM 90 MINUTE BATTERY BACKUP ILLUMINATION TIME.
- TYPE 'A' & 'B' FIXTURES SHALL BE MOUNTED WITH BOTTOM OF FIXTURE AT 11'-6" AFF.
- TYPE 'E' FIXTURES SHALL BE WALL MOUNTED AT 7'-6" AFF UNLESS OTHERWISE NOTED.
- TYPE 'G' FIXTURES SHALL BE CHAIN HUNG WITH BOTTOM OF FIXTURE AT 9'-0" AFF UNLESS OTHERWISE NOTED.
- TYPE 'H' FIXTURES SHALL BE CHAIN HUNG WITH BOTTOM AT 10'-0" AFF UNLESS OTHERWISE NOTED.

**KEY NOTES:** #

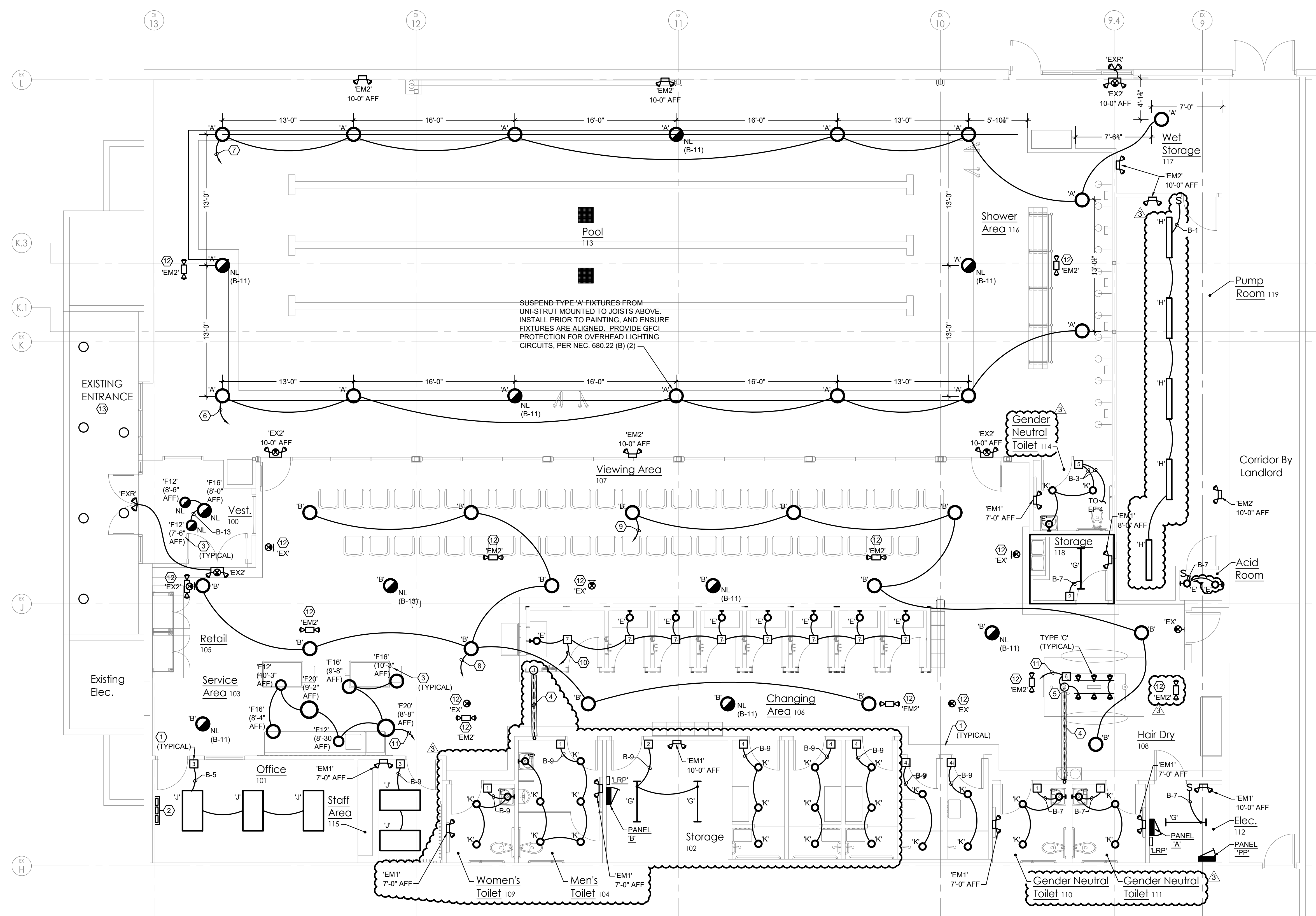
- OCCUPANCY SENSOR FOR LIGHTING CONTROL. REFER TO LEGEND AND DETAILS SHEET E.000.
- LOCATION OF LIGHTING OVERRIDE SWITCHES. REFER TO LIGHTING CONTROL SYSTEM DIAGRAM SHEET E.000.
- MOUNTING HEIGHTS INDICATED ARE TO BOTTOM OF GLOBE.
- SAWCUT & PATCH FLOOR SLAB FOR INSTALLATION OF 3/4" UNDERFLOOR CONDUIT & WIRING. CIRCUIT NUMBER AS INDICATED ON PLAN.
- INSTALL TOGGLE SWITCH IN CABINET BELOW. COORDINATE WITH CASEWORK SHOP DRAWINGS.
- B-1 VIA 'LRP' IN STORAGE 102 AND OVERRIDE SWITCH IN OFFICE 101. REFER TO LIGHTING CONTROL DIAGRAM SHEET E.000.
- B-3 VIA 'LRP' IN STORAGE 102 AND OVERRIDE SWITCH OFFICE 101. REFER TO LIGHTING CONTROL DIAGRAM SHEET E.000.
- B-5 VIA 'LRP' IN STORAGE 102 AND OVERRIDE SWITCH IN OFFICE 101. REFER TO LIGHTING CONTROL DIAGRAM SHEET E.000.
- B-7 VIA 'LRP' IN STORAGE 102 AND OVERRIDE SWITCH IN OFFICE 101. REFER TO LIGHTING CONTROL DIAGRAM SHEET E.000.
- B-9 VIA 'LRP' IN STORAGE 102 AND OVERRIDE SWITCH IN OFFICE 101. REFER TO LIGHTING CONTROL DIAGRAM SHEET E.000.
- B-7 VIA 'LRP' IN STORAGE 102 AND OVERRIDE SWITCH IN OFFICE 101. REFER TO LIGHTING CONTROL DIAGRAM SHEET E.000.
- EXIT SIGN/EMERGENCY BATTERY UNIT SHALL BE PENDANT MOUNTED WITH TOP AT 11'-6" AFF. PROVIDE #PMK-L MOUNTING BRACKET TO UNDERSIDE OF STRUCTURAL STEEL.
- EXISTING LIGHTING IN AT ENTRANCE SHALL REMAIN CONNECTED TO LANDLORD'S HOUSE PANEL AND CONTROLS.

**WIRING DEVICES:**

- SWITCHES SHALL BE 20 AMPERES, 277/120 VOLTS. THEY SHALL BE SINGLE POLE, THREE-WAY OR FOUR-WAY AS REQUIRED. SWITCHES SHALL BE EQUAL TO HUBBELL 1221, 1223 OR 1224.
- SWITCH WITH PILOT LIGHT SHALL BE 20 AMPERES, 120 VOLT, SINGLE-POLE, WITH ILLUMINATED HANDLE. SWITCHES SHALL BE EQUAL TO HUBBELL 1221-PL.
- DEVICE COLORS SHALL BE AS SELECTED BY ARCHITECT.

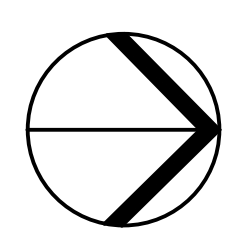
**DEVICE PLATES:**

- DEVICE PLATES SHALL BE WHITE PLASTIC BY HUBBELL OR AS APPROVED BY THE OWNER/ARCHITECT.



**LIGHTING - NEW WORK PLAN**

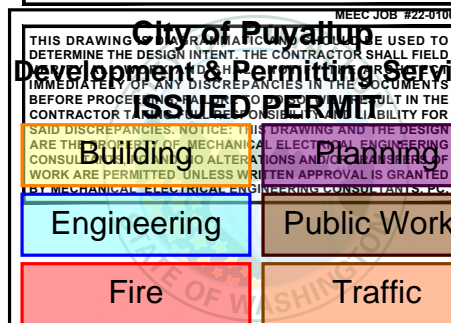
3/16" = 1'-0"



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Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
P.A. #272

Brand Standards  
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.

issue / revision date  
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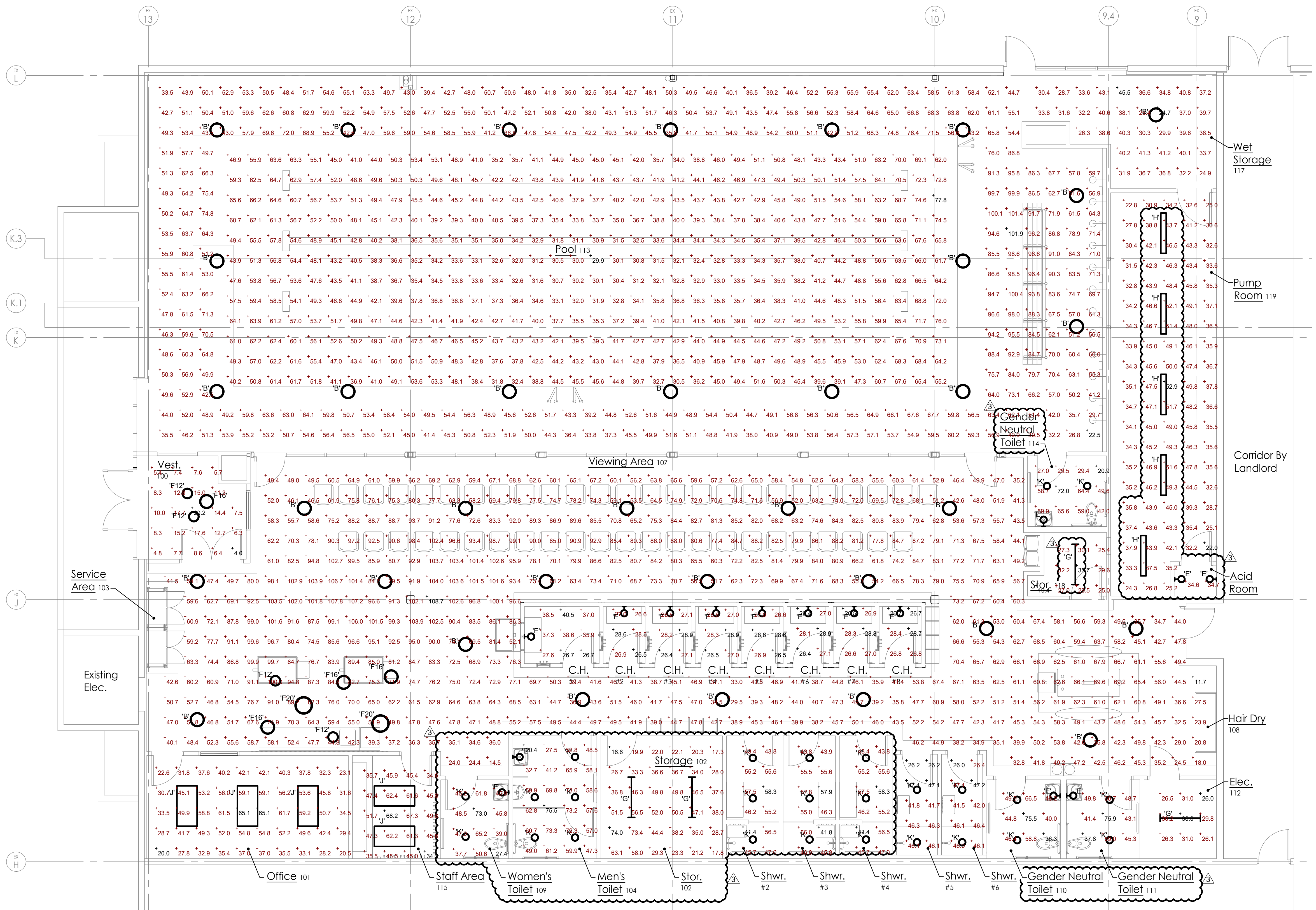
drawn by: M.W. checked by: J.K.

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373  
project:  
sheet title:

**dma**  
DORCHEN/MARTIN  
Dorchen/Martin Associates, Inc.  
Architects/Planners  
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Southfield, Michigan 48076  
(248) 557-1062  
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job number: 22006 sheet number: E.102

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ACID ROOM	+	34.6 fc	34.7 fc	34.6 fc	1.0:1	1.0:1
CHANGING HUT #1	+	34.3 fc	40.5 fc	26.7 fc	1.5:1	1.3:1
CHANGING HUT #2	+	27.4 fc	28.6 fc	26.5 fc	1.1:1	1.0:1
CHANGING HUT #3	+	27.4 fc	28.9 fc	26.4 fc	1.1:1	1.0:1
CHANGING HUT #4	+	27.4 fc	28.9 fc	26.5 fc	1.1:1	1.0:1
CHANGING HUT #5	+	27.4 fc	28.6 fc	26.5 fc	1.1:1	1.0:1
CHANGING HUT #6	+	27.3 fc	28.9 fc	26.4 fc	1.1:1	1.0:1
CHANGING HUT #7	+	27.3 fc	28.8 fc	26.5 fc	1.1:1	1.0:1
CHANGING HUT #8	+	27.4 fc	28.7 fc	26.7 fc	1.1:1	1.0:1
ELEC. 112	+	29.2 fc	36.0 fc	26.0 fc	1.4:1	1.1:1
GENDER NEUTRAL TOILET 110	+	51.8 fc	57.5 fc	36.3 fc	2.1:1	1.4:1
GENDER NEUTRAL TOILET 111	+	52.0 fc	75.9 fc	37.8 fc	2.0:1	1.4:1
MENS TOILET 104	+	56.6 fc	75.5 fc	20.4 fc	3.7:1	2.8:1
OFFICE 101	+	42.9 fc	65.1 fc	20.0 fc	3.3:1	2.1:1
POOL DECK	+	58.1 fc	101.9 fc	22.5 fc	4.5:1	2.6:1
POOL SURFACE	+	46.5 fc	77.8 fc	29.9 fc	2.6:1	1.6:1
PUMP ROOM 119	+	39.7 fc	52.9 fc	22.0 fc	2.4:1	1.8:1
SERVICE/VIEWING/ CHAINING	+	65.8 fc	108.7 fc	11.7 fc	9.3:1	5.6:1
SHOWER #2	+	50.5 fc	58.3 fc	41.4 fc	1.4:1	1.2:1
SHOWER #3	+	50.5 fc	57.9 fc	41.8 fc	1.4:1	1.2:1
SHOWER #4	+	50.5 fc	58.3 fc	41.4 fc	1.4:1	1.2:1
SHOWER #5	+	41.5 fc	47.1 fc	26.2 fc	1.8:1	1.6:1
SHOWER #6	+	41.5 fc	47.2 fc	26.0 fc	1.8:1	1.6:1
STAFF AREA 115	+	49.6 fc	68.2 fc	34.3 fc	2.0:1	1.4:1
STORAGE 102	+	38.4 fc	74.0 fc	16.6 fc	4.5:1	2.3:1
STORAGE 118	+	28.1 fc	35.7 fc	19.4 fc	1.8:1	1.4:1
TOILET 113	+	48.2 fc	72.0 fc	20.9 fc	3.4:1	2.3:1
VESTIBULE 100	+	10.2 fc	20.2 fc	4.0 fc	5.1:1	2.6:1
WET STORAGE	+	35.3 fc	45.5 fc	24.7 fc	1.8:1	1.4:1
WOMENS TOILET 109	+	49.0 fc	73.0 fc	27.4 fc	2.7:1	1.8:1



LIGHTING PHOTOMETRICS  
3/16" = 1'-0"

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mechanical electrical  
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1408 Station Rd. Ste 300  
Puyallup, WA 98170  
P: 253-844-8918  
F: 253-844-8917

City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building Planning  
Engineering Public Works  
Fire Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
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deviation permitted  
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drawn by  
M.W.

checked by  
J.K.

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

project: Power - New Work Plan  
sheet title:

**dma**  
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job number 22006  
sheet number E.201

**WIRING DEVICES**

- A. SWITCHES SHALL BE 20A AMPERES, 120/277 VOLTS. SWITCHES SHALL BE SINGLE POLE, THREE WAY OR FOUR WAY AS REQUIRED. SWITCHES SHALL BE EQUAL TO HUBBELL 1221, 1223 OR 1224.
- B. GENERAL USE RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX TYPE WITH THE MECHANISM ENCLOSED IN A CUP BODY, RATED 20 AMPERES, 125 VOLT. RECEPTACLES SHALL BE EQUAL TO HUBBELL 5362.
- C. GROUND FAULT RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX TYPE, RATED 20 AMPERE, 125 VOLT, UL LISTED UNDER 498 RECEPTACLE REQUIREMENTS AND 943 CLASS A REQUIREMENTS, SHALL CONFORM TO NEC REQUIREMENTS, AND EQUAL TO HUBBELL SERIES #5260, P&S, OR ARROW-HART.
- D. COMBINATION RECEPTACLE/USB CHARGER SHALL BE SPECIFICATION GRADE 15 AMPERE, 125 VOLT. RECEPTACLE SHALL BE EQUAL TO HUBBELL #TM&USB, ARROW-HART OR LEVITON.
- E. DEVICE COLORS SHALL BE AS SELECTED BY ARCHITECT.

**WEATHERPROOF BOXES AND COVERS:**

- A. WIRING DEVICES INSTALLED AT EXTERIOR LOCATIONS SHALL BE INSTALLED IN A SINGLE GANG, DEEP WEATHERPROOF BOX WITH WHILE-IN-USE COVER PER NEC SECTION 406.8(B)(1). BOXES AND COVERS SHALL BE CONSTRUCTED OF POLYCARBONATE AND SHALL BE FULLY GASKETED. THE TRANSLUCENT COVER SHALL INCLUDE A PAD-LOCKABLE, BREAK-RESISTANT BULLNOSE AND LATCH. PASS & SEYMOUR #WJUC10-DC OR EQUAL.

**DEVICE PLATES**

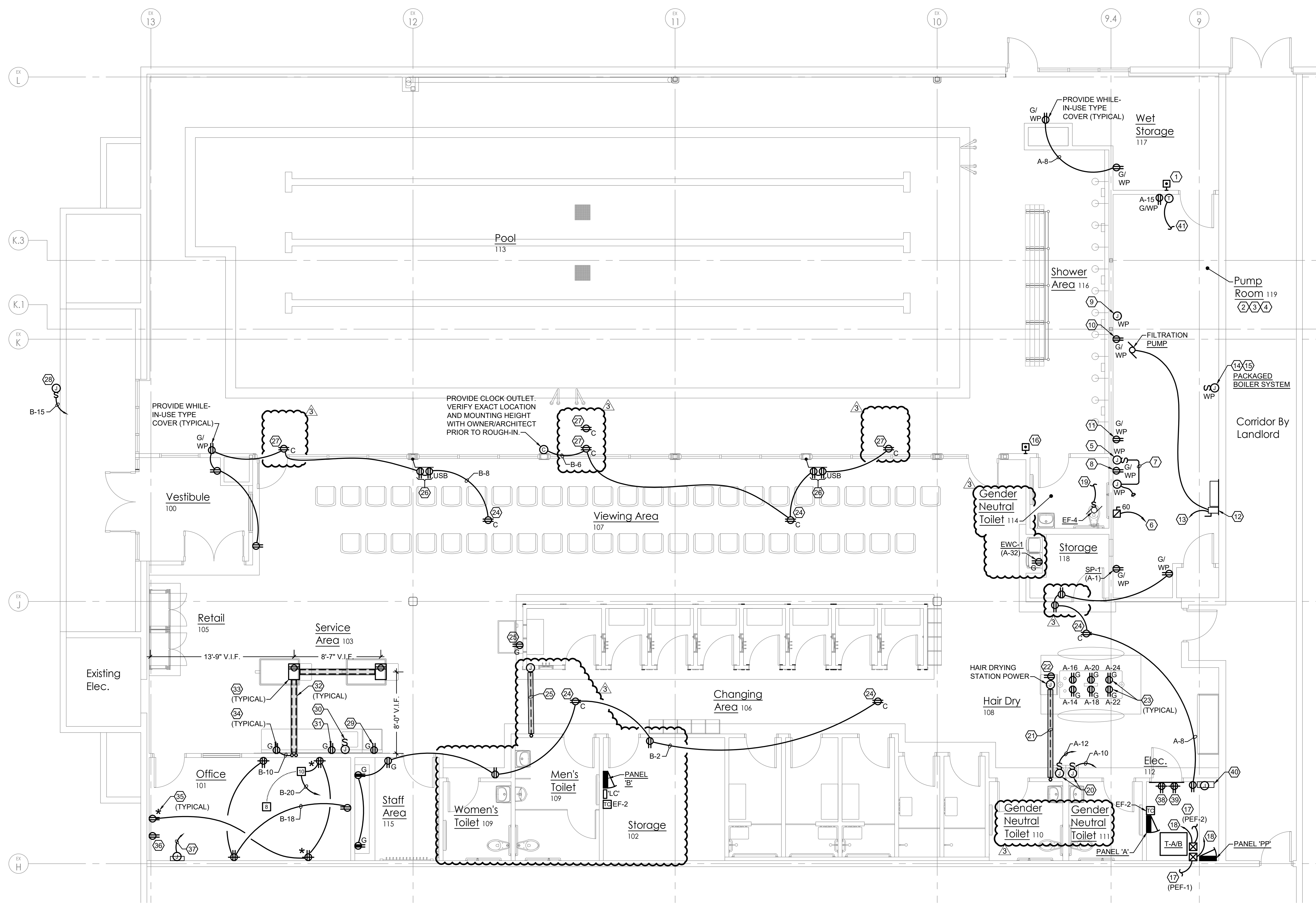
- A. DEVICE PLATES SHALL BE WHITE PLASTIC BY HUBBELL OR AS APPROVED BY THE OWNER/ARCHITECT.

**GENERAL NOTES:**

1. WHERE RACEWAYS ARE INSTALLED OUTDOORS ABOVE GRADE, THE INTERIOR OF THE RACEWAY SHALL BE CONSIDERED A WET LOCATION PER NEC 300.9. PROVIDE CONDUCTORS THAT ARE LISTED FOR USE IN WET LOCATIONS, AS PER NEC 310.8(C).
2. CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO SUNLIGHT SHALL HAVE THEIR AMPACITY DERATED IN ACCORDANCE WITH NEC 310.15(B)(2)(c).
3. PROVIDE 'LESSCO' AIR-VAPOR BARRIER BOXES FOR ALL OUTLET BOXES/JUNCTION BOXES IN WALLS WITH HEAVY-DUTY VAPOR BARRIER, AROUND THE POOL DECK. PROVIDE SEALANT AROUND WIRE PENETRATIONS AND TAPE TO SEAL VAPOR BARRIER TO BOX PER INSTALLATION INSTRUCTIONS. REFER TO ARCHITECTURAL PLANS FOR WALL DESIGNATIONS.
4. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULLSTRING.
5. ALL TRENCHING SHALL BE PERPENDICULAR TO WALLS.
6. ALL RECEPTACLES IN AREAS ACCESSIBLE TO THE PUBLIC SHALL BE TAMPER-RESISTANT TYPE.

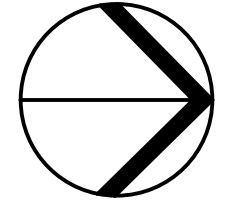
**KEY NOTES:**

1. PROVIDE WEATHERPROOF EMERGENCY 'POWER-OFF' RED PUSHBUTTON WITH LABEL AND COVER FOR BOILER SYSTEM SHUTDOWN. REFER TO WIRING DIAGRAM SHEET E.301.
2. PROVIDE SIGNAGE FOR ELECTRICAL EQUIPMENT IN THIS ROOM STATING THAT THE CODE REQUIRED 36" WORKING CLEARANCE SHALL BE MAINTAINED IN FRONT OF EACH PIECE OF EQUIPMENT.
3. ALL ELECTRICAL EQUIPMENT THIS ROOM SHALL BE PROTECTED FROM CORROSION, INCLUDING ENCLOSURES, DEVICES, CONDUIT, ETC. MOUNT ALL ELECTRICAL DEVICES 60" AFF INCLUDING RECEPTACLES, DATA OUTLETS, ETC.
4. VERIFY ALL POWER CONNECTION LOCATIONS AND REQUIREMENTS IN THIS ROOM WITH MECHANICAL AND POOL EQUIPMENT CONTRACTOR'S PRIOR TO INSTALLATION.
5. AUTOMATIC CHEMICAL CONTROLLER, PROVIDE JUNCTION BOX, WITH DISCONNECT SWITCH, CONDUIT & WIRING AND INTERLOCK WITH CHLORINE GENERATOR. CIRCUIT NUMBER A-23.
6. CHLORINE GENERATOR, 208V-1PH. PROVIDE 60A-2P NON-FUSED DISCONNECT SWITCH WITH 2#8 & #10 GRD. -3/4"C. CIRCUIT NUMBER A-5.7.
7. PROVIDE HARDWIRE CONNECTION TO CHEMICAL CONTROLLER, CONDUIT WITH 3 WIRES (HOT, NEUTRAL & GROUND) OVERHEAD AND DOWN TO JUNCTION BOX. PROVIDE CORD & PLUG TO INTERLOCK WITH CHLORINE GENERATOR. VERIFY EXACT LOCATION AND LENGTH OF CORD & PLUG.
8. ACID METERING PUMP, CIRCUIT NUMBER A-29.
9. UV DISINFECTION SYSTEM CONTROL PANEL, INTERLOCK WITH FILTRATION PUMP. CIRCUIT NUMBER A-13.
10. TDS CONTROLLER, CIRCUIT NUMBER A-9.
11. AUTOMATIC WATER LEVEL CONTROLLER, CIRCUIT NUMBER A-3.
12. VARIABLE FREQUENCY DRIVE (VFD) WITH DISCONNECT SWITCH FOR FILTRATION PUMP MOTOR PROVIDED AND INSTALLED BY POOL CONTRACTOR, WIRED COMPLETE BY ELECTRICAL CONTRACTOR.
13. ELECTRICAL CONTRACTOR SHALL PROVIDE #12 & #12 GRD. -3/4"C. CIRCUIT NUMBER PP-7.9.11.
14. JUNCTION BOX WITH LOCKABLE SAFETY SWITCH & 2#10 & #10 GRD. -3/4"C. TO 30A-1P BREAKER FOR PACKAGED BOILER SYSTEM. ROUTE CIRCUIT THRU BOILER 'EPO' SWITCH, REFER TO WIRING DIAGRAM SHEET E.301. CIRCUIT NUMBER A-19.
15. PROVIDE POWER TO BOILER CONTROL TERMINAL STRIP, ALARM & ASSOCIATED PUMP. INTERLOCK BOILERS WITH DU-1 CONTROL TERMINALS.
16. PROVIDE WEATHERPROOF EMERGENCY 'POWER-OFF' RED PUSHBUTTON WITH LABEL AND COVER FOR POOL EQUIPMENT SHUT-DOWN. REFER TO WIRING DIAGRAM DRAWING E.301.
17. TO POOL EXHAUST FAN (PEF) ON ROOF, REFER TO SHEET E.204 FOR LOCATION.
18. INTERLOCK WITH DE-HUMIDIFICATION UNIT (DU-1).
19. TO LIGHT SWITCH, REFER TO SHEET E.101. CIRCUIT NUMBER B-3.
20. PROVIDE JUNCTION BOX CONNECTED TO GFCI TYPE BREAKER WITH SAFETY SWITCH, CONDUIT & WIRING FOR SWIMSUIT DRYER. CIRCUIT NUMBER AS INDICATED ON PLAN.
21. PROVIDE 1" CONDUIT & WIRING UNDERFLOOR FOR HAIR DRYING STATION OUTLETS. CIRCUIT NUMBERS AS INDICATED ON PLAN.
22. PROVIDE CONVENIENCE OUTLET FLUSH MOUNTED IN MILLWORK AT 24" AFF. VERIFY EXACT LOCATION IN FIELD WITH OWNER/MILLWORK VENDOR PRIOR TO ROUGH-IN. CIRCUIT NUMBER A-26.
23. PROVIDE GFCI TYPE DUPLEX RECEPTACLE ON A DEDICATED CIRCUIT MOUNTED IN MILLWORK FOR HAIR DRYING STATION. FIELD VERIFY EXACT LOCATION. CIRCUIT NUMBER AS INDICATED ON PLAN.
24. PROVIDE TYPE DUPLEX RECEPTACLE MOUNTED TO UNDERSIDE OF STRUCTURAL STEEL FOR SPEAKER POWER. CIRCUIT NUMBER AS INDICATED ON PLAN.
25. PROVIDE GFCI TYPE DUPLEX RECEPTACLE ON A DEDICATED CIRCUIT MOUNTED IN MILLWORK BELOW FOR AQUARIUM POWER. VERIFY EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. SAWCUT & PATCH EXISTING FLOOR FOR INSTALLATION OF 3/4" UNDERFLOOR CONDUIT & WIRING. CIRCUIT NUMBER B-4.
26. PROVIDE DUPLEX RECEPTACLE MOUNTED AT 8'-0" AFF FOR TELEVISION. PROVIDE DUPLEX RECEPTACLE WITH USB CHARGER MOUNTED AT 18" AFF. VERIFY EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. OFFSET OUTLET BOXES TO AVOID INTERFERENCE WITH STRUCTURAL STEEL. CIRCUIT NUMBER AS INDICATED ON PLAN.
27. PROVIDE WP/GFCI TYPE DUPLEX RECEPTACLE MOUNTED TO UNDERSIDE OF STRUCTURAL STEEL FOR SPEAKER POWER. CIRCUIT NUMBER AS INDICATED ON PLAN.
28. PROVIDE CONDUIT & WIRING THRU LOCKABLE DISCONNECT SWITCH VIA TIME CLOCK FOR BUILDING SIGN CONTROL. FIELD VERIFY EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN. CIRCUIT NUMBER AS INDICATED ON PLAN.
29. PROVIDE DUPLEX RECEPTACLE ON A DEDICATED CIRCUIT FOR SODA COOLER. CIRCUIT NUMBER B-12.
30. PROVIDE JUNCTION BOX WITH SAFETY SWITCH, CONDUIT & WIRING FOR ELECTRIC WATER HEATER (EWH-1). CIRCUIT NUMBER B-14.
31. PROVIDE DUPLEX RECEPTACLE ON A DEDICATED CIRCUIT FOR COFFEE MACHINE. CIRCUIT NUMBER B-16.
32. SAWCUT & PATCH FLOOR FOR INSTALLATION OF (2) 1" CONDUITS UNDERFLOOR TO KIOSK FLUSH FLOOR BOXES, (1) WITH #12 AWG, NEUTRAL & GRD., THE OTHER WITH CAT. 5E CABLES. REFER TO SHEET E.203.
33. PROVIDE TWO GANG FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE AND COMMUNICATION JACKS. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. REFER TO DETAIL SHEET E.001.
34. ALL RECEPTACLES AT SERVICE COUNTER SHALL BE MOUNTED IN CABINETS BELOW. VERIFY EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN. CIRCUIT NUMBER AS INDICATED ON PLAN.
35. INDICATES OUTLET CONTROLLED VIA OCCUPANCY SENSOR. REFER TO LEGEND SHEET E.001. PROVIDE LABEL ON COVERPLATE.
36. PROVIDE DUPLEX RECEPTACLE ON A DEDICATED CIRCUIT FOR REFRIGERATOR. FIELD VERIFY LOCATION WITH OWNER. CIRCUIT NUMBER B-22.
37. PROVIDE JUNCTION BOX, CONDUIT AND WIRING FOR DU-1 CONTROL PANEL. CIRCUIT NUMBER B-24.
38. PROVIDE QUAD OUTLET ON A DEDICATED CIRCUIT MOUNTED ON BACKBOARD FOR TELEPHONE EQUIPMENT. CIRCUIT NUMBER A-4.
39. PROVIDE QUAD OUTLET ON A DEDICATED CIRCUIT MOUNTED ON BACKBOARD FOR INTERNET & SECURITY SERVICES. CIRCUIT NUMBER A-6.
40. PROVIDE JUNCTION BOX, CONDUIT & WIRING TO BREAKER WITH 'LOCK-ON' DEVICE FOR FIRE ALARM CONTROL PANEL. CIRCUIT NUMBER A-2.
41. ELECTRICAL CONTRACTOR SHALL PROVIDE & INSTALL 120V, THERMOSTAT AND MAKE ALL FINAL CONNECTION TO EXHAUST FAN (EF-3). CIRCUIT NUMBER A-27.
42. NOT USED.

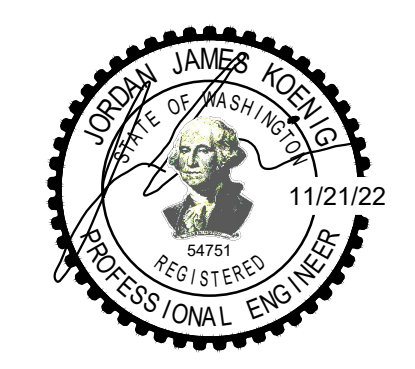


**POWER - NEW WORK PLAN**

3/16" = 1'-0"



**PRCTI20221793**



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City of Puyallup  
 Development & Permitting Services  
**ISSUED PERMIT**  
 Building Planning  
 Engineering Public Works  
 Fire Traffic

Client  
 Goldfish Swim School  
 H&H Swim School  
 Puyallup, WA  
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drawn by M.W. checked by J.K.

Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373

project: sheet title:

**Grounding & Bonding - New Work Plan**

**dma**  
 DORCHEN/MARTIN  
 Dorchen/Martin Associates, Inc.  
 Architects/Planners  
 23895 Greenfield Rd., Suite 107  
 Southfield, Michigan 48076  
 (248) 557-1062  
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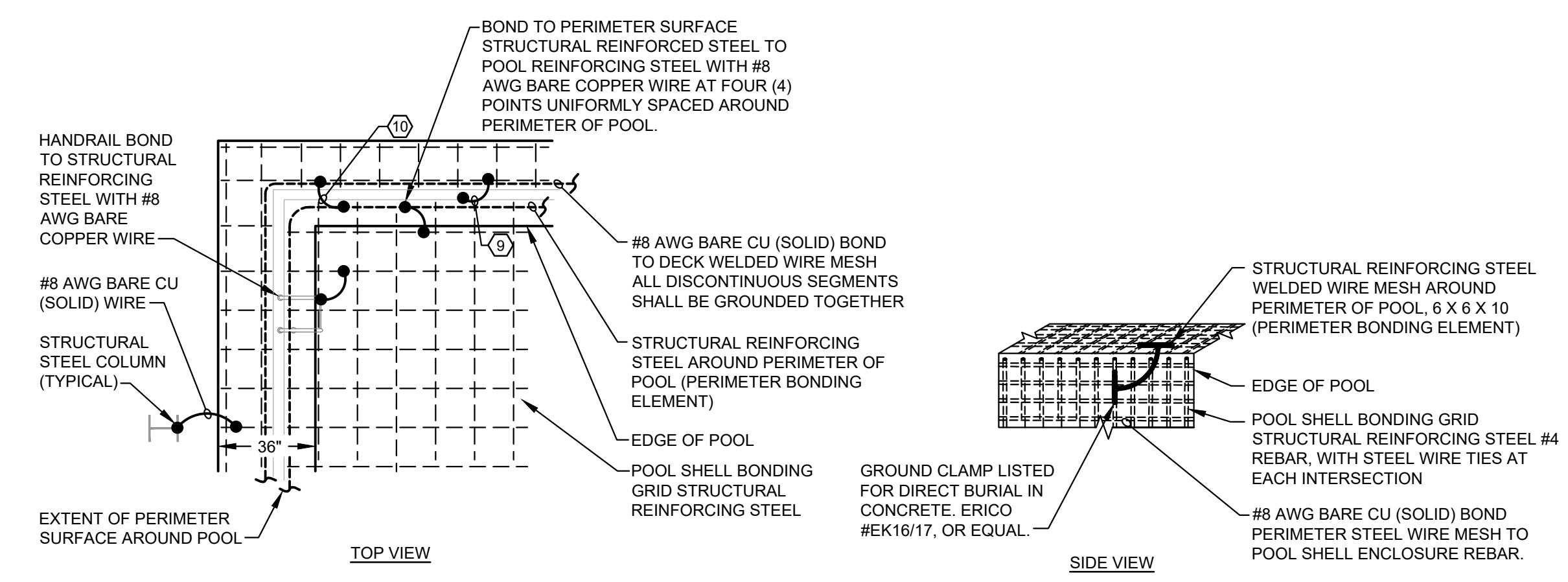
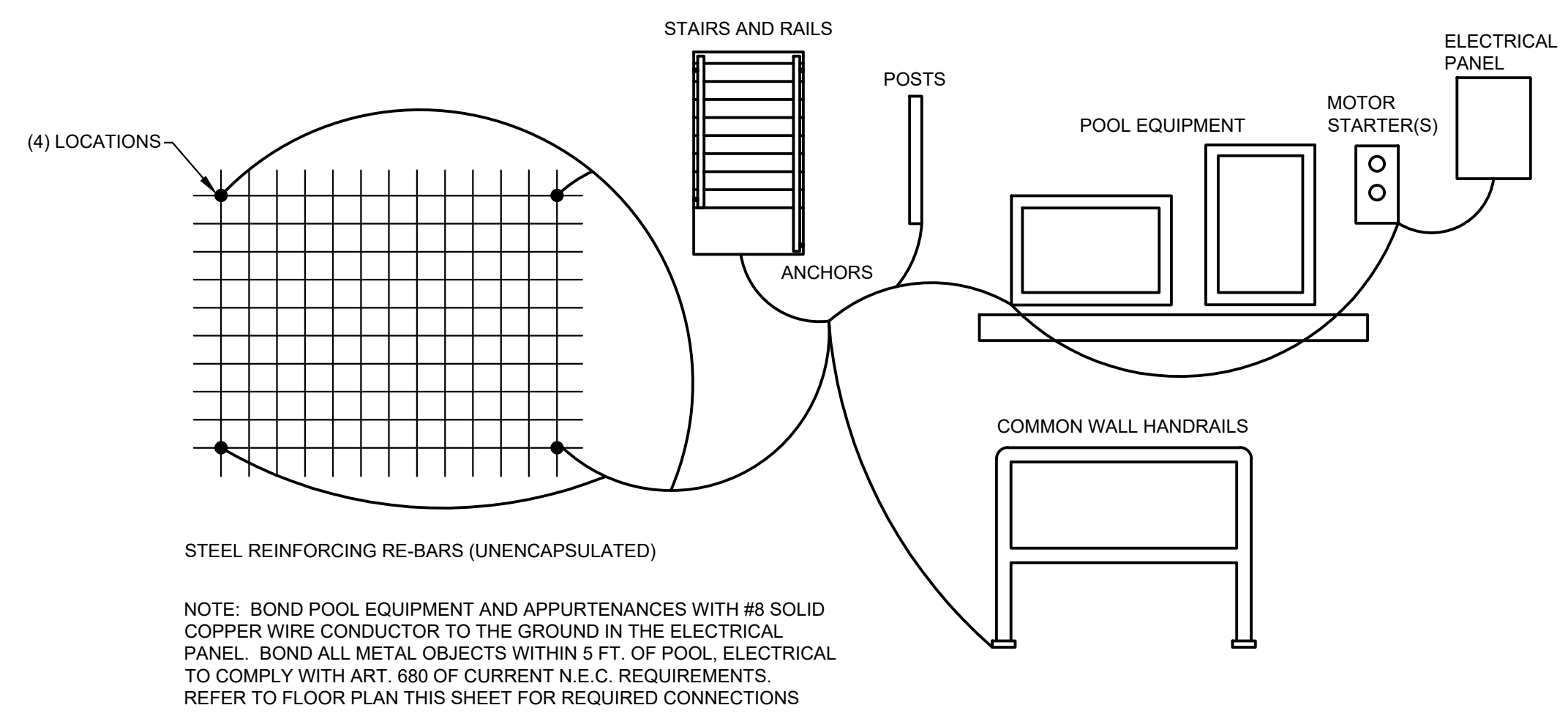
job number 22006 sheet number E.202

**GENERAL NOTES:**

- ALL POOL BONDING CONNECTIONS SHALL BE MADE USING #8 AWG BARE COPPER CONDUCTORS.
- ALL GROUNDING AND BONDING SHALL BE PERFORMED PER NEC 2017, ARTICLE 680.
- ALL BRANCH CIRCUITS SHALL BE INSTALLED IN METAL CONDUIT AND PROVIDED WITH AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR, NO SMALLER THAN #12 AWG.
- CONTRACTOR SHALL VERIFY ALL BONDING REQUIREMENTS WITH AHJ.
- ALL WORK SHALL COMPLY WITH LOCAL, STATE, CITY AND COUNTY CODES FOR BONDING REQUIREMENTS.

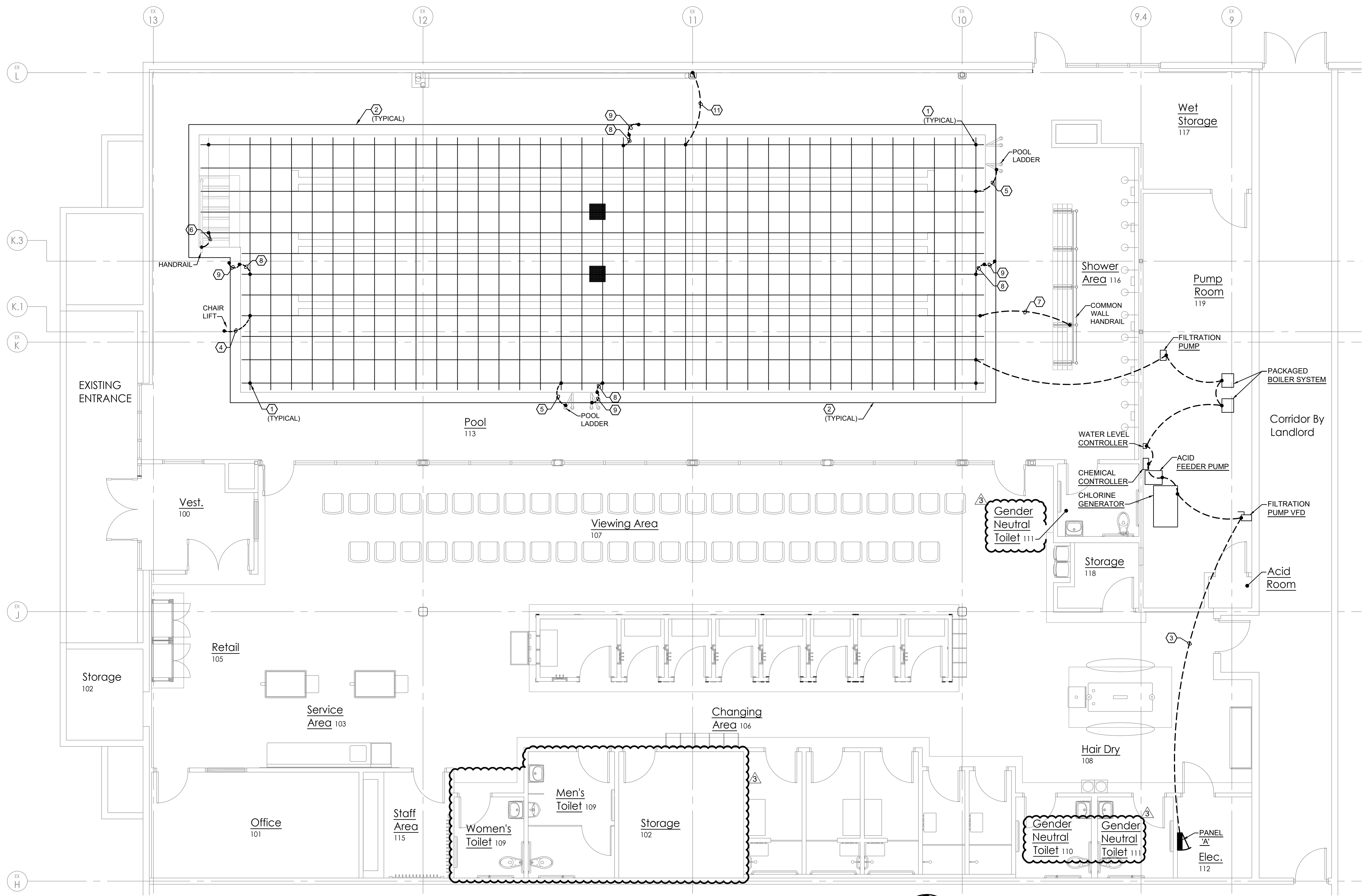
**KEY NOTES:**

- UNENCAPSULATED STEEL RE-BAR REINFORCING GRID BY OTHERS. PROVIDE STEEL TIE WIRES TO BOND GRID AT EACH INTERSECTION.
- PERIMETER STEEL RE-BAR REINFORCEMENT BY POOL CONTRACTOR.
- BOND ALL POOL MECHANICAL EQUIPMENT IN THIS ROOM TO THE GROUND BUS IN PANEL 'A', AS SHOWN.
- BONDING TO CHAIR LIFT.
- BONDING TO POOL LADDER.
- BONDING TO HANDRAIL.
- BONDING TO COMMON WALL HANDRAIL.
- PERIMETER BONDING TO METAL GRID UNDER DECK SURROUNDING POOL AT FOUR EVENLY SPACED LOCATIONS.
- PROVIDE LISTED GROUND CLAMPS AND BOND METAL TRENCH DRAIN TO SUPPORTS TO PERIMETER BONDING WIRE WITH #8 AWG SOLID COPPER CONDUCTOR.
- BOND WELDED WIRE MESH AROUND OUTSIDE PERIMETER OF TRENCH DRAIN TO WELDED WIRE MESH IN DECK BETWEEN POOL AND TRENCH DRAIN.
- BONDING TO BUILDING STRUCTURAL STEEL.



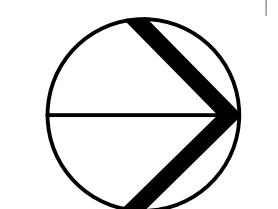
**DETAIL - BONDING OF CONDUCTIVE METAL EQUIPMENT AND PARTS ASSOCIATED WITH SWIMMING POOL**  
 N.T.S.

**POOL CONDUCTIVE EQUIPMENT BONDING SCHEMATIC**  
 N.T.S.



**GROUNDING & BONDING - NEW WORK PLAN**

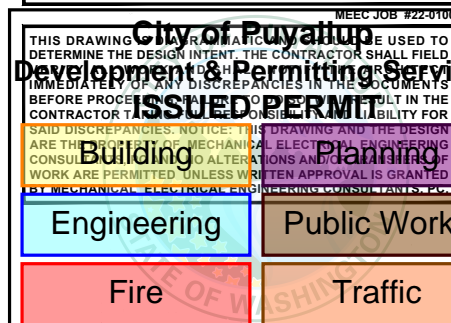
3/16" = 1'-0"



**PRCTI20221793**



architect seal



**GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES AND RACEWAYS.
2. WI-FI ACCESS POINTS AND SPEAKERS SHALL BE MOUNTED TO UNDERSIDE OF STRUCTURAL STEEL.
3. MOTION SENSORS AND CAMERA'S SHALL BE WALL MOUNTED UNLESS OTHERWISE NOTED.
4. PROVIDE QUAD OUTLETS ON DEDICATED CIRCUITS MOUNTED TO BACKBOARD FOR SECURITY AND COMMUNICATIONS DEVICES. REFER TO DRAWING E.201 FOR ADDITIONAL INFORMATION.
5. CONTRACTOR SHALL VERIFY EQUIPMENT LOCATIONS WITH OWNER PRIOR TO EQUIPMENT OUTLET ROUGH-INS.
6. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULLSTRING.
7. ALL TRENCHING SHALL BE PERPENDICULAR TO WALLS.
8. CONTRACTOR SHALL VERIFY ANALOG/DIGITAL OR VOIP REQUIREMENTS PRIOR TO PROCUREMENT.
9. FIRE ALARM DESIGN IS SCHEMATIC AND INTENDED FOR BIDDING PURPOSE ONLY. FINAL FIRE ALARM INSTALLATION SHALL BE BASED ON THE APPROVED SHOP DRAWINGS.
10. ALL FIRE ALARM DEVICES SHOWN SHALL BE COMPATIBLE WITH BUILDING FIRE ALARM SYSTEM AND COMPLY WITH NEC ARTICLE 760 REQUIREMENTS.
11. PROVIDE FIRE ALARM NAC PANEL(S) AS REQUIRED.
12. PROVIDE TAMPER AND FLOW SWITCHES TO FIRE PROTECTION PIPING AS REQUIRED AND TIE INTO BUILDING FIRE PROTECTION/SUPPRESSION SYSTEM.

**KEY NOTES: #**

1. PROVIDE FLUSH FLOOR BOX WITH (2) VOICE/DATA JACKS. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION. REFER TO DETAIL SHEET E.000.
2. SAWCUT & PATCH FLOOR FOR INSTALLATION OF (2) 1" CONDUITS UNDERFLOOR TO KIOSK FLUSH FLOOR BOXES. ONE WITH CONDUCTORS & THE OTHER WITH (2) CAT. 5E CABLES TO EACH FLOOR BOX. REFER TO SHEET E.201.
3. PROVIDE 1" EMPTY CONDUIT UNDERFLOOR TO CHANGING HUTS FOR FIRE ALARM CABLING.
4. PROVIDE (1) CAT. 5E CABLE FROM BACKBOARD INSTALLED IN J-HOOKS OR BRIDAL RINGS UP TO DU-1 (ON ROOF).
5. 2" EMPTY CONDUIT FROM BUILDING COMMUNICATION'S SERVICE DEMARC PROVIDED BY LANDLORD.

**FIRE ALARM & LOW VOLTAGE SYSTEMS LEGEND**

SYMBOL	DESCRIPTION
▶	TELEPHONE/DATA OUTLET, MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. OUTLET TO INCLUDE 3/4" EMPTY CONDUIT TO COMMUNICATIONS BACKBOARD, PROVIDE (2) CAT. 5E CABLES PER OUTLET.
▷	DATA OUTLET, MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. OUTLET TO INCLUDE 3/4" EMPTY CONDUIT TO COMMUNICATIONS BACKBOARD, PROVIDE (1) CAT. 5E CABLE PER OUTLET.
E ▶	EMERGENCY TELEPHONE OUTLET, 48" AFF. OUTLET TO INCLUDE 3/4" EMPTY CONDUIT TO COMMUNICATIONS BACKBOARD.
⊙	WI-FI ACCESS POINT
TV	TELEVISION OUTLET, 8" AFF (VERIFY IN FIELD PRIOR TO ROUGH-IN), PROVIDE (1) CAT. 5E CABLE
F	FIRE ALARM MANUAL PULLSTATION, 48" AFF
⊕	WALL MOUNTED FIRE ALARM SPEAKER/STROBE COMBINATION DEVICE 80" AFF (# INDICATES CANDELA RATING)
⊖	WALL MOUNTED FIRE ALARM STROBE DEVICE, 80" AFF (# INDICATES CANDELA RATING)
⊕P	PENDANT MOUNTED FIRE ALARM SPEAKER/STROBE COMBINATION DEVICE 80" AFF (# INDICATES CANDELA RATING)
⊖P	PENDANT MOUNTED FIRE ALARM STROBE DEVICE, 80" AFF (# INDICATES CANDELA RATING)
⊕R	FIRE ALARM SYSTEM RETURN AIR DUCT TYPE SMOKE DETECTOR WITH SAMPLING TUBE (REFER TO ROOF PLAN FOR LOCATION)
⊕S	FIRE ALARM SYSTEM ADDRESSABLE SMOKE DETECTOR
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL

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 H&H Swim School  
 Puyallup, WA  
 F.A. #272

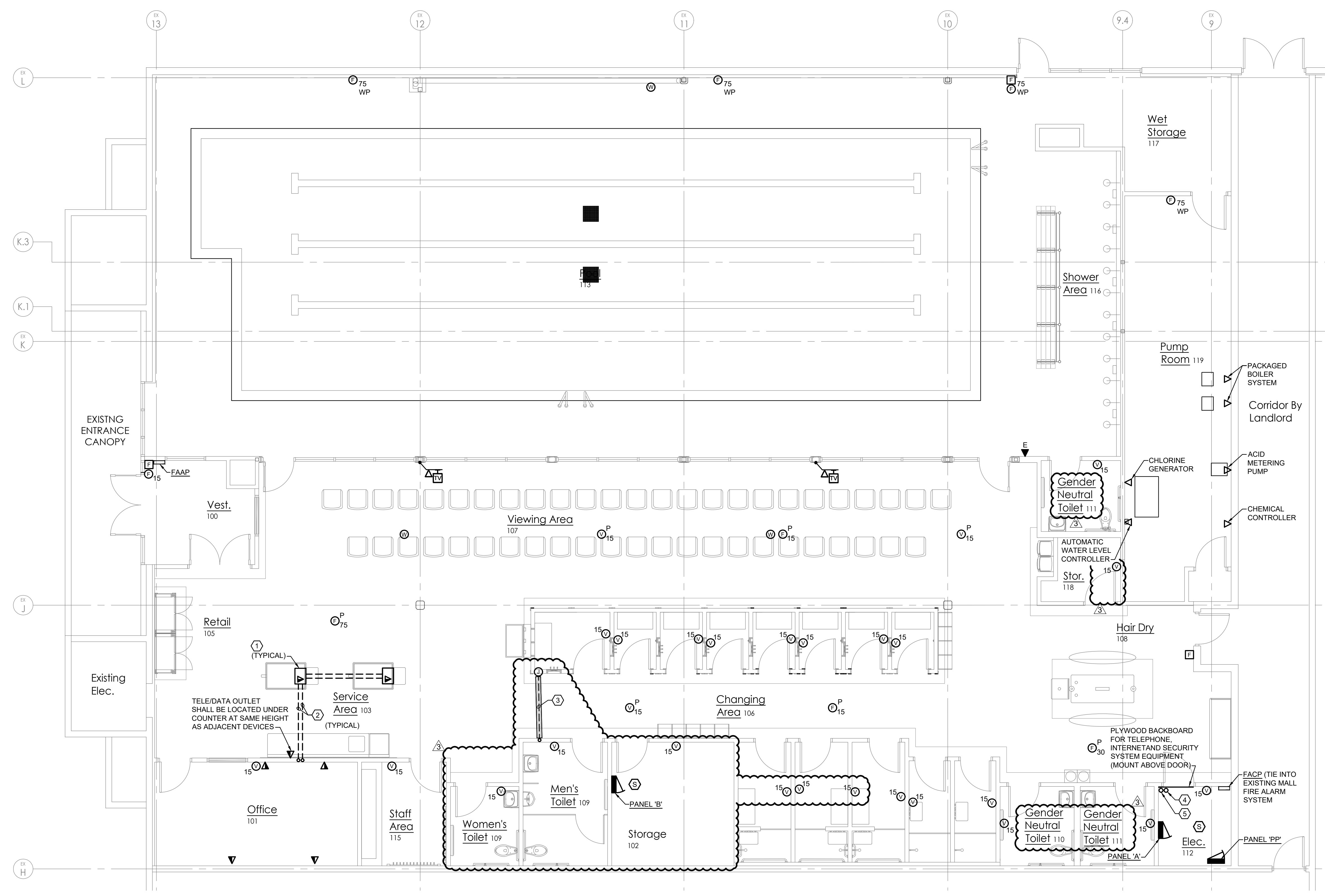
Brand Standards  
 All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.

issue / revision date  
 11-18-22 DOH Review  
 11-21-22 Building Permit  
 02-09-23 Owner Revision  
 01-11-23 City Review  
 02-09-23 City Review Comments  
 02-09-23 DOH Review Comments  
 02-09-23 Elect. Review Comments

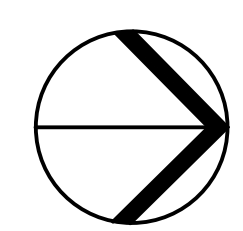
drawn by: M.W.  
 checked by: J.K.

Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373  
 project:  
 sheet title:

**dma**  
 DORCHEN/MARTIN  
 Dorchen/Martin Associates, Inc.  
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 23895 Greenfield Rd., Suite 107  
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 (248) 557-1062  
 www.dorchendmartin.com  
 job number 22006  
 sheet number E.203



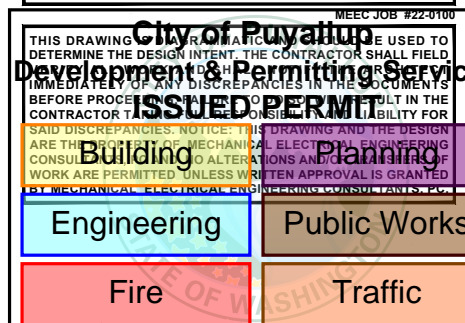
**FIRE ALARM & COMMUNICATIONS - NEW WORK PLAN**  
 3/16" = 1'-0"



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Brand Standards  
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 must be followed - No  
 deviation permitted  
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issue / revision date
11-18-22 DOH Review
11-21-22 Building Permit
12-09-22 Addendum #1
01-11-23 Owner Revision
02-09-23 City Review Comments
02-09-23 DOH Review Comments
02-09-23 Elect. Review Comments

drawn by: M.W. checked by: J.K.

project: Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373

sheet title: Roof Electrical - New WorkPlan

**dma**  
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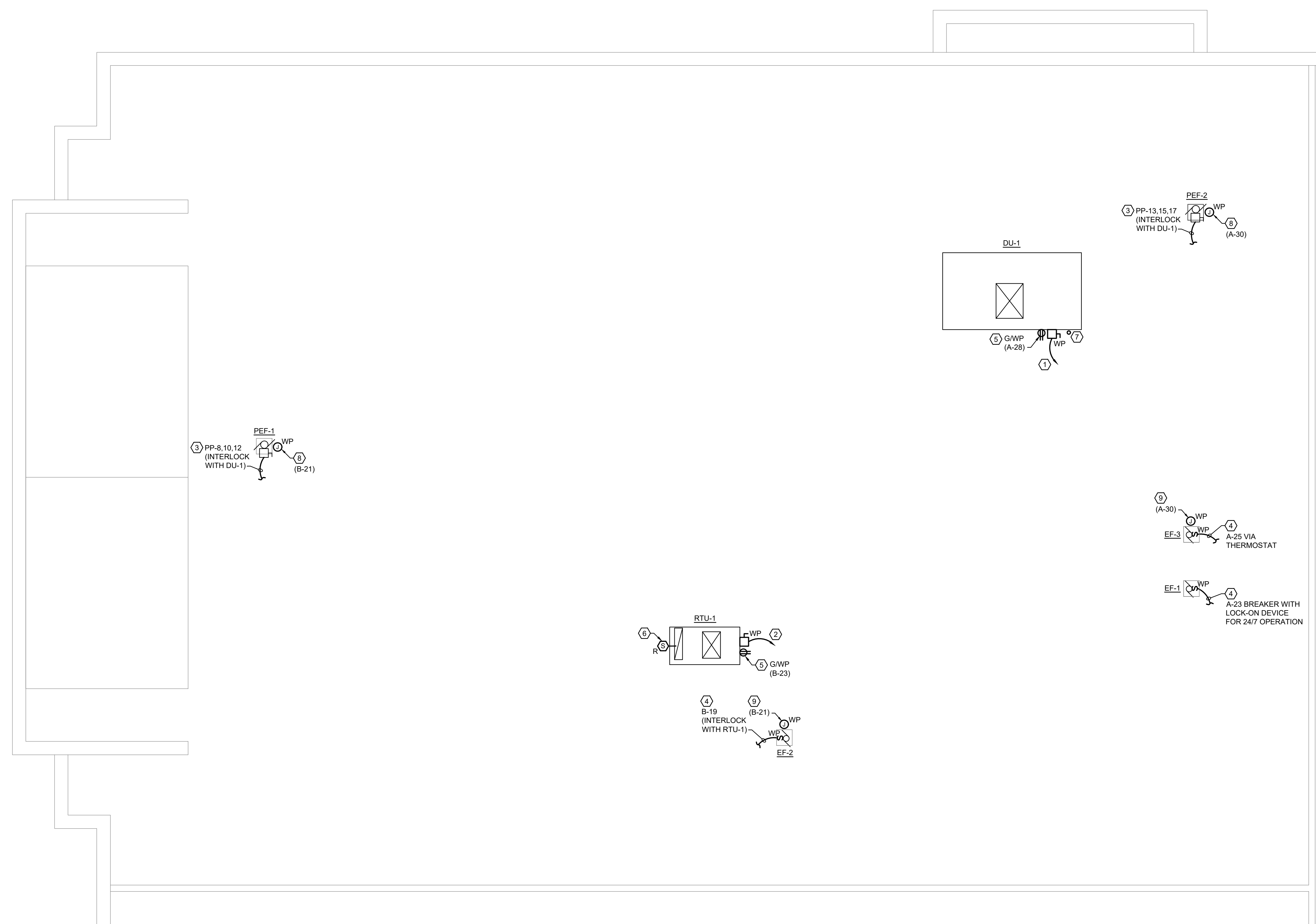
job number: 22006 sheet number: E.204

**GENERAL NOTES:**

- ALL NEW BRANCH CIRCUIT WIRING SERVING EQUIPMENT AT THE ROOF SHALL BE PROVIDED WITH SEAL IN ACCORDANCE WITH NEC 300.7(A). FILL RACEWAY WITH A PLIABLE COMPOUND AT A CONDUIT BODY OR J-BOX AT THE POINT WHERE THE CONDUIT PASSES FROM THE INTERIOR TO EXTERIOR OF THE BUILDING. SEAL OFF FITTINGS ARE NOT REQUIRED.
- WHERE RACEWAYS ARE INSTALLED OUTDOORS ABOVE GRADE, THE INTERIOR OF THE RACEWAY SHALL BE CONSIDERED A WET LOCATION PER NEC 300.9. PROVIDE CONDUCTORS THAT ARE LISTED FOR USE IN WET LOCATIONS, AS PER NEC 310.8(C).
- CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO SUNLIGHT ON OR ABOVE THE ROOFTOP SHALL HAVE THEIR AMPACITY DERATED IN ACCORDANCE WITH NEC 310.15(B)(2)(c).
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULLSTRING.

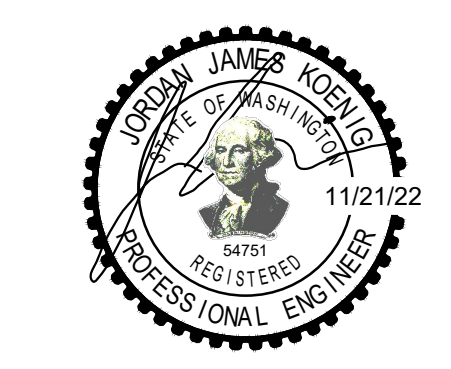
**KEY NOTES:**

- PROVIDE 60A-3P WEATHERPROOF DISCONNECT SWITCH, FUSED AT 50A, WITH 3#8 & #10 GRD. - 3/4"C. TO PANEL 'PP'. CIRCUIT NUMBER PP-1,3,5.
- PROVIDE 60A-3P WEATHERPROOF DISCONNECT SWITCH, FUSED AT 35A, WITH 3#8 & #10 GRD. - 3/4"C. TO PANEL 'PP'. CIRCUIT NUMBER PP-2,4,6.
- VARIABLE FREQUENCY DRIVE PROVIDED WITH POOL EXHAUST FAN. ELECTRICAL CONTRACTOR SHALL PROVIDE 3#12 & #12 GRD. - 3/4"C. TO PANEL AND POLE POSITION AS INDICATED ON PLAN AND MAKE ALL FINAL CONNECTIONS.
- PROVIDE WEATHERPROOF SAFETY SWITCH, CONDUIT & WIRING TO PANEL. POLE POSITION AND CONTROLS AS INDICATED ON PLAN.
- GFCI/WEATHERPROOF TYPE DUPLEX RECEPTACLE PROVIDED WITH ROOFTOP UNIT. ELECTRICAL CONTRACTOR SHALL WIRE COMPLETE. CIRCUIT NUMBER AS INDICATED ON PLAN.
- DUCT TYPE SMOKE DETECTOR PROVIDED WITH UNIT. ELECTRICAL CONTRACTOR SHALL TIE INTO TENANT FIRE ALARM SYSTEM.
- PROVIDE (1) CAT. 5E CABLE TO PLYWOOD BACKBOARD AT ELECTRICAL 112. REFER TO SHEETS E.201 & E.203.
- PROVIDE WEATHERPROOF JUNCTION BOX, CONDUIT & WIRING FOR MOTORIZED DAMPER AND INTERLOCK WITH ASSOCIATED POOL EXHAUST FAN (PEF) VARIABLE FREQUENCY DRIVE. FIELD VERIFY EXACT LOCATION WITH MECHANICAL TRADES. CIRCUIT NUMBER AS INDICATED ON PLAN.
- PROVIDE WEATHERPROOF JUNCTION BOX, CONDUIT & WIRING FOR MOTORIZED DAMPER AND INTERLOCK WITH ASSOCIATED EXHAUST FAN (EF). CIRCUIT NUMBER AS INDICATED ON PLAN.

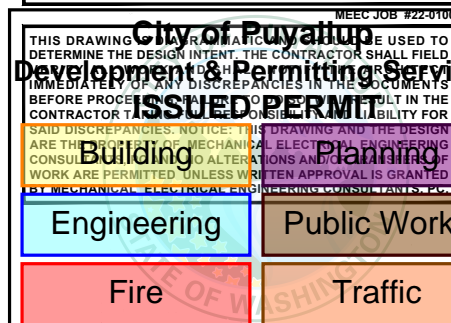


**ROOF ELECTRICAL - NEW WORK PLAN**  
 3/16" = 1'-0"

**PRCTI20221793**



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PANEL BOARD MAIN BREAKER	LOAD - V.A.			VOLTAGE MAIN LUGS			SYM. A.I.C. MIN. 14,000 KAIC			MOUNTING SURFACE
	A	B	C	BRKR #	CTK #	CTK #	A	B	C	
LOAD SERVED										LOAD SERVED
DE-HUMIDIFICATON UNIT (DU-1)	12,013	12,013		50	1	2	35	9134	9134	ROOFTOP UNIT (RTU-1)
G FILTRATION PUMP (7.5 HP)	3045		12,013	20	3	4	3			POOL EXHAUST FAN (PEF-1)
		3045			7	8	15	581	581	
			3045	3	5	6	3		9134	
POOL EXHASUT FAN (PEF-2)	581			15	13	14	100	18,328		75 KVA TRANSFORMER (T-A)
		581			15	16		18,328		
			581	3	17	18	3		18,328	
SPARE				20	19	20	20			SPARE
SPARE				20	21	22	20			SPARE
SPARE				20	23	24	20			SPARE
SPACE					25	26				SPACE
SPACE					27	28				SPACE
SPACE					29	30				SPACE
LOAD DESCRIPTION	DEMAND FACTOR D.F.			VOLT-AMPS						
				CONNECTED	DEMAND			140,609	TOTAL DEMAND LOAD	
LIGHTING	1.0	7,563			7,563			1,891	25% LIGHTING LOAD	
RECEPTACLES	N.E.C.	13,960			11,980			35,152	SPARE	
MOTORS	1.25 LARGEST	83,482			92,492					
MISC. EQUIPMENT	1.0	28,574			28,574			177,672	DESIGN LOAD	
								214	DESIGN AMPS	
TOTAL		133,579			140,609					

G - GFCI TYPE CIRCUIT BREAKER

SERVICE LOAD CALCULATION PER NEC ART 230:

MINIMUM SERVICE SIZE REQUIRED: 214 AMPS @ 480/277V, 3-PHASE 4-WIRE

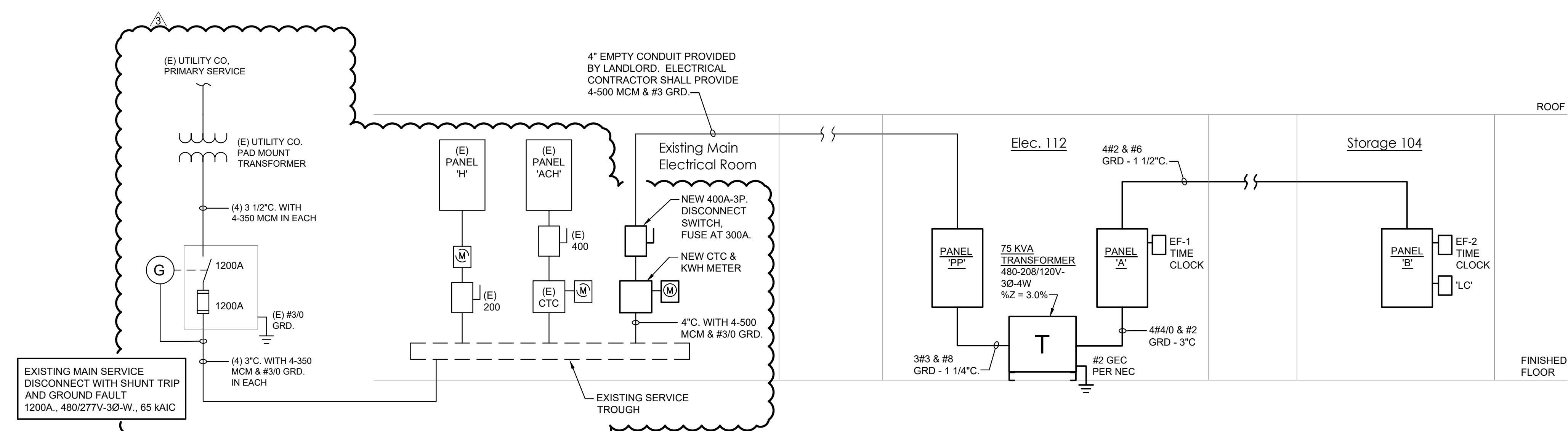
SERVICE SIZE: 300 AMPS

PANEL BOARD MAIN BREAKER	LOAD - V.A.			VOLTAGE MAIN LUGS			120/208V, 3PH, 4W.			SYM. A.I.C. MIN. 10,000 KAIC			MOUNTING SURFACE
	A	B	C	BRKR #	CTK #	CTK #	A	B	C	A	B	C	
LOAD SERVED													LOAD SERVED
SUMP PUMP (SP-1)	1176			20	1	2	20	1000					FIRE ALARM CONTROL PANEL
WATER LEVEL CONTROLLER		1200		20	3	4	20	360					INTERNET SYSTEM QUAD
G CHLORINE GENERATOR			3328	40	5	6	20			360			SECURITY SYSTEM QUAD
				2	7	8	20	720					RECEPTACLES (6)
TDS CONTROLLER		1200		20	9	10	20	1176					SWIMSUIT DRYER
FILTRATION PUMP 'EPO'			100	20	11	12	20			176			SWIMSUIT DRYER
G FUTURE UV SYSTEM	576			20	13	14	20	1000					HAIR DRYER
RECEPTACLE		180		20	15	16	20	1000		1000			HAIR DRYER
BOILER SYSTEM 'EPO'			100	20	17	18	20			1000			HAIR DRYER
G PACKAGED BOILER SYSTEM	2880			30	19	20	20	1000					HAIR DRYER
G CHEMICAL CONTROLLER		1200		20	21	22	20	1000		1000			HAIR DRYER
L EXHAUST FAN (EF-1)			696	20	23	24	20			1000			HAIR DRYER
EXHAUST FAN (EF-3)	864			20	25	26	20	180					HAIR DRYING MILLWORK RECEPT.
EF-3 THERMOSTAT		120		20	27	28	20	180					ROOF RECEPTACLE
ACID FEEDER/METERING			1200	20	29	30	20			400			MOTORIZED DAMPERS (2)
SPACE					31	32	20	370					ELEC. WATER COOLER (EWC)
SPACE					33	34	20						SPARE
SPACE					35	36	20						SPARE
SUB PANEL 'B'	7,758			100	37	38							SPACE
		7,758			39	40							SPACE
			7,758	3	41	42							SPACE
LOAD DESCRIPTION	DEMAND FACTOR D.F.			VOLT-AMPS									
				CONNECTED	DEMAND			55,141	TOTAL DEMAND LOAD				
LIGHTING	1.0	7,563			7,563			1,891	25% LIGHTING LOAD				
RECEPTACLES	N.E.C.	13,960			11,980			13,785	SPARE				
MOTORS	1.25 LARGEST	4,887			7,024								
MISC. EQUIPMENT	1.0	28,574			28,574			70,817	DESIGN LOAD				
								197	DESIGN AMPS				
TOTAL		54,984			55,141								

G - GFCI TYPE CIRCUIT BREAKER  
L - LOCKED-ON BREAKER

PANEL BOARD MAIN BREAKER	LOAD - V.A.			VOLTAGE MAIN LUGS			120/208V, 3PH, 4W.			SYM. A.I.C. MIN. 10,000 KAIC			MOUNTING SURFACE
	A	B	C	BRKR #	CTK #	CTK #	A	B	C	A	B	C	
LOAD SERVED													LOAD SERVED
LIGHTING	1300			20	1	2	20	1260					RECEPTACLES (7)
LIGHTING		1661		20	3	4	20			500			AQUARIUM
LIGHTING			1454	20	5	6	20					1100	RECEPTACLES (6) & FLAT SCREEN
LIGHTING & EF-4 (1/4 HP)	1207			20	7	8	20	1280					RECEPTACLES (6) & FLAT SCREEN
LIGHTING			900	20	9	10	20			540			RECEPTACLES (3)
NIGHT LIGHTS			1251	20	11	12	20					1000	SODA COOLER
LIGHTING RELAY PANEL (LRP)	500			20	13	14	20	1500					ELEC. WATER HEATER (EWH-1)
BUILDING SIGN		1200		20	15	16	20	1000					COFFEE MACHINE
SPARE				20	17	18	20			900			RECEPTACLES (5)
EXHAUST FAN (EF-2)	1176			20	19	20	20	900					RECEPTACLES (5)
MOTORIZED DAMPERS (2)		400		20	21	22	20			1200			REFRIGERATOR
ROOF RECEPTACLE			180	20	23	24	20			500			DU-1 CONTROL PANEL
SPARE				20	25	26	20						SPARE
SPARE				20	27	28	20						SPARE
SPARE				20	29	30	20						SPARE
SPACE					31	32							SPACE
SPACE					33	34							SPACE
SPACE					35	36							SPACE
LOAD DESCRIPTION	DEMAND FACTOR D.F.			VOLT-AMPS									
				CONNECTED	DEMAND			23,588	TOTAL DEMAND LOAD				
LIGHTING	1.0	7,563			7,563			1,891	25% LIGHTING LOAD				
RECEPTACLES	N.E.C.	6,160			6,160			5,897	SPARE				
MOTORS	1.25 LARGEST	2,151			2,445								
MISC. EQUIPMENT	1.0	7,400			7,400			31,376	DESIGN LOAD				
								87	DESIGN AMPS				
TOTAL		23,274			23,588								

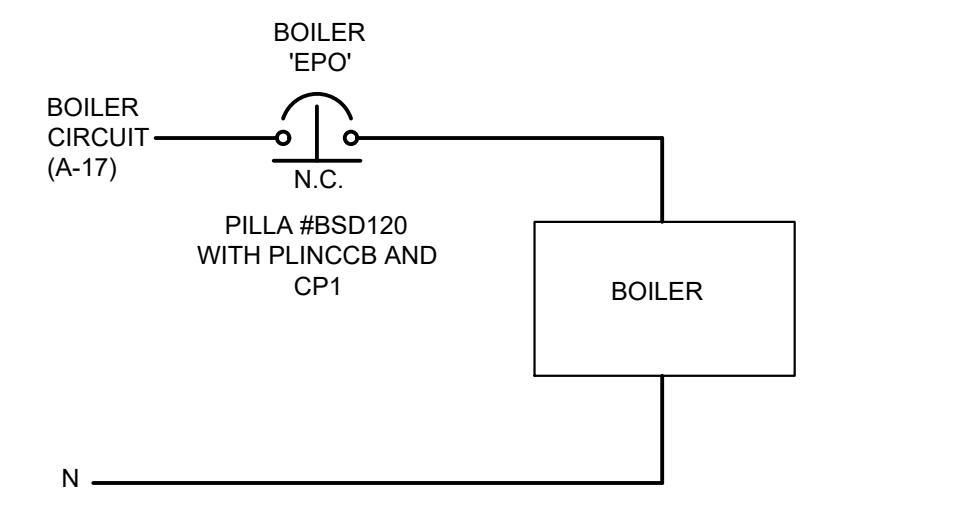
G - GFCI TYPE CIRCUIT BREAKER  
L - LOCKED-ON BREAKER



LOAD SUMMARY	
EXISTING METER DEMAND: (LOAD SEPT. 2022)	174.24 KVA
NEC 220.87 DEMAND:	217.8 KVA
PREVIOUS LOAD ADDED:	199.6 KVA
PROPOSED NEW LOAD:	177.67 KVA
TOTAL:	595.1 KVA = 717 AMPS @ 480V-3Ø
EXISTING SERVICE SIZE:	1200 AMPS

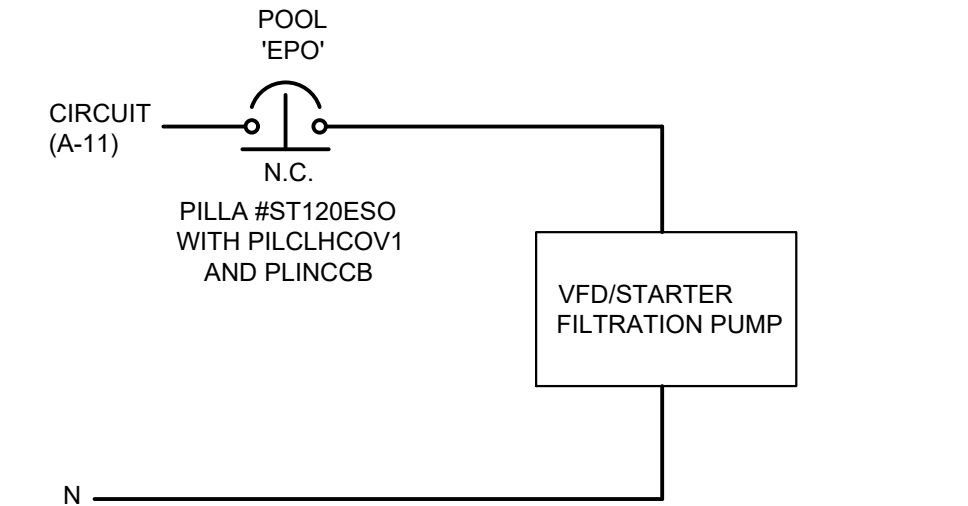
- RISER DIAGRAM GENERAL NOTES:**
1. PROVIDE PROPER LABELING FOR ALL ELECTRICAL EQUIPMENT. SEE 'ELECTRICAL IDENTIFICATION' IN THE ELECTRICAL SPECIFICATIONS.
  2. ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPE-WRITTEN CIRCUIT DIRECTORY.
  3. ALL NEW TERMINATIONS SHALL COMPLY WITH THE REQUIREMENTS OF NEC 110.14(C)(1).
  4. ELECTRICAL CONTRACTOR SHALL PROVIDE FAULT CURRENT STUDY TO CONFIRM PANEL KAIC RATINGS PRIOR TO INSTALLATION.

AVAILABLE FAULT CURRENT SUMMARY	
EQUIPMENT DESCRIPTION	3Ø SYMMETRIC BOLTED FAULT CURRENT AMPS (MAXIMUM)
(E) UTILITY CO. TRANSFORMER	ASSUMED INFINITE
NEW PANEL 'PP'	12,377
TRANSFORMER A/B	11,829
NEW PANEL 'A'	5,369
NEW PANEL 'B'	3,345



**BOILER EMERGENCY 'POWER-OFF' (EPO) SWITCH WIRING DIAGRAM**  
N.T.S.

- NOTE:**
1. MOUNT EPO SWITCH AT 46" AFF TO CENTER OF BOX.



**POOL EQUIPMENT EMERGENCY 'POWER-OFF' (EPO) SWITCH WIRING DIAGRAM**  
N.T.S.

- NOTES:**
1. CONFIRM PUMP 'EPO' TERMINAL VOLTAGE, PRIOR TO PROCUREMENT AND PROVIDE RELAY AS REQUIRED.
  2. MOUNT 'EPO' SWITCH AT 46" AFF TO CENTER OF BOX.

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

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drawn by  
M.W.

checked by  
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**Electrical Riser & Diagram, Notes & Details**

**dma**  
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job number  
22006

sheet number  
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**PRCTI20221793**

ELECTRICAL SPECIFICATIONS

GENERAL CONDITIONS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specifications shall apply to work of this section.
B. The Electrical Contractor shall examine the Architectural, Plumbing and Mechanical Drawings and Specifications and shall familiarize himself with all conditions of work affecting the contract.
C. Furnish labor and materials to provide a complete electrical system as required by the plans and specifications.
D. Any item appearing on the drawings and not in the specification or vice versa, and any items appearing in neither but necessary to accomplish the intent of these specifications, shall be furnished by the Electrical Contractor.
E. Where equipment specifications or descriptions include a specific manufacturer and catalog number, any substituted equipment or equipment proposed to be provided by an alternative manufacturer shall functionally meet, or exceed, the requirements of the specified equipment in all respects.

WORK INCLUDED

- A. These specifications and accompanying drawings contemplate the provisions by the Electrical Contractor of all labor and materials required to install a complete system of electrical work as indicated on the drawings and/or herein specified.
1. New Panelboards, Transformer, and new feeder conductors and branch circuiting.
2. Safety switches, branch circuit wiring, outlets and connection complete.
3. Telephone outlets and conduit system complete.
4. Grounding of complete electrical system per Article 250 of N.E.C. and specifications.
5. Emergency egress lighting and exit lighting systems as indicated.
6. Service and connections of equipment as specified.
7. Installation of Lighting fixtures (provided by Owner, complete with lamps).
8. Temporary electric service during construction.
9. Automatic lighting controls systems.
10. Disconnect switches which are not an integral part of equipment.
11. Motor starters which are not integral part of equipment.
12. Modifications to existing Fire Alarm and Smoke Detection system.

WORK BY OTHERS

- A. The following work is specified under other sections of these specifications.
1. All motor control equipment, including thermostats, control wiring for motor operated mechanical equipment such as dampers and damper motors (unless noted otherwise) will be furnished by the Mechanical Contractor.
2. Coordinate all electrical requirements for pool equipment with the pool equipment supplier before proceeding with electrical rough-in work.
3. The telephone company will provide and install all the wiring instruments for their service.

ELECTRICAL SUBMITTALS

- A. Refer to the Conditions of the Contract (General and Supplementary) and Division 1 Section: SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES for submittal definitions, requirements, and procedures.
B. Submittal of shop drawings, product data, and samples will be accepted only when submitted by The Contractor.
C. When some errors in the shop drawings are detected and others are overlooked, this does not grant the contractor permission to proceed in error.
D. The Electrical Contractor shall be responsible for final coordination of all electrical feeders and over current protection devices (circuit breakers and/or fuses) with the manufacturer's written data for each mechanical device prior to submittal of any electrical equipment for review.
E. Whether or not the Engineer approves the proposed substitution, the Contractor agrees to promptly upon receipt of the Engineers billing, reimburse the Engineer at the rate of two and three-quarter times the direct cost to the Engineer for all time spent by him in the evaluation of the proposed substitution.

SUBSTITUTIONS

- A. Alternate manufacturers electrical equipment shall be similar in performance, physical appearance and construction to be considered as equal to equipment specified.
B. Alternate manufacturers electrical equipment proposed to be substituted by bidding contractor must be pre-approved during bidding.
C. All equipment shop drawings, fixture cuts, etc., submitted after award of contract for electrical equipment which was not pre-approved will be rejected.
D. In the event substitutions are proposed to the Engineer after the contract has been awarded, the Engineer will record all time used by him in evaluation of each proposed substitution.
E. Whether or not the Engineer approves the proposed substitution, the Contractor agrees to promptly upon receipt of the Engineers billing, reimburse the Engineer at the rate of two and three-quarter times the direct cost to the Engineer for all time spent by him in the evaluation of the proposed substitution.

REGULATIONS

- A. All work shall be installed in accordance with the local electrical code, the requirements of the local utility companies, and the requirements and recommendations of the National Electrical Code.
B. Where conflict exists between codes or utility company requirements and contract documents, the more stringent shall apply.
C. The installation of telephone service entrance conduit systems shall be as shown and shall comply with the requirements of the local telephone company.
D. Whether or not the Engineer approves the proposed substitution, the Contractor agrees to promptly upon receipt of the Engineers billing, reimburse the Engineer at the rate of two and three-quarter times the direct cost to the Engineer for all time spent by him in the evaluation of the proposed substitution.

TEMPORARY SERVICE

- A. The Electrical Contractor shall furnish and install temporary construction lighting and power in accordance with the progress schedule of the General Contractor.

STANDARDS OF MATERIAL AND WORKMANSHIP

- A. All work shall be done at such times and in such a manner as will least interfere with the maintenance and operation of all related or affected systems.
B. All materials and equipment shall bear the label of approval of the National Board of Fire Underwriter's Laboratories.
C. The Electrical Contractor shall effectively protect, at his own expense, such of his work, materials or equipment as is liable to injury during the construction period.
D. All openings into any part of the conduit system as well as associated fixtures, equipment, etc., both before and after being set in place, must be securely covered or otherwise protected to prevent obstruction of the conduit, or injury due to carelessness or maliciously dropped tools or materials, grit, dirt or any foreign matter.
E. It is not intended that the drawings or this specification indicate or specify each piece of conduit, fittings, etc., required for the installation.
F. General requirements and details of equipment are shown. Dimensions or scales shown are approximate and must be checked at job prior to installation of equipment or any order given for fabrication.
G. Electrical Contractors shall have competent foreman on the premises at all times to superintendent and check and lay out all work, give information to General Contractor regarding chases and openings, and be responsible for such locations.
H. All openings into any part of the conduit system as well as associated fixtures, equipment, etc., both before and after being set in place, must be securely covered or otherwise protected to prevent obstruction of the conduit, or injury due to carelessness or maliciously dropped tools or materials, grit, dirt or any foreign matter.

INSPECTION OF SITE

- A. The Contractor shall visit the site and verify the conditions under which his work must be conducted before submitting his proposal.
B. The Electrical Contractor shall examine the Architectural, Plumbing and Mechanical Drawings and Specifications and shall familiarize himself with all conditions of work affecting the contract.
C. Furnish labor and materials to provide a complete electrical system as required by the plans and specifications.
D. Any item appearing on the drawings and not in the specification or vice versa, and any items appearing in neither but necessary to accomplish the intent of these specifications, shall be furnished by the Electrical Contractor.
E. Where equipment specifications or descriptions include a specific manufacturer and catalog number, any substituted equipment or equipment proposed to be provided by an alternative manufacturer shall functionally meet, or exceed, the requirements of the specified equipment in all respects.

OWNER TESTS AND INSPECTIONS

- A. The Owner reserves the right to inspect and test any portion of the equipment during the progress of its erection.
B. The Electrical Contractor shall notify the Architect prior to entering into contract with the Owner.
C. The Electrical Contractor shall test the entire system in the presence of the Owner or his representative when the work is finally completed to insure that all portions are free from short circuits and grounds and are in good and intended working condition.
D. Factory finish as damaged shall be retouched or replaced to satisfaction of Architect and Owner.
E. The Electrical Contractor shall notify the Architect or Engineer before any electrical work is concealed by a concrete pour, covering of a wall or installation of a ceiling.
F. The Electrical Contractor shall test the entire system in the presence of the Owner or his representative when the work is finally completed to insure that all portions are free from short circuits and grounds and are in good and intended working condition.

INSPECTION, TESTING AND START-UP

- A. Scope:
1. Intent: The intent of the inspection, testing, and check-out work specified herein, or required, is to insure that all electrical workmanship and equipment, whether Owner furnished or Contractor furnished, is installed and performs in accordance with the design specifications, drawings, manufacturer's instructions and all applicable codes and requirements.
2. Contractor Responsibility: The Contractor shall provide all necessary labor, materials, tools, test instruments and other equipment or service and expenses required to inspect, test, adjust, set, calibrate, functionally and operationally check all work and components of the various electrical systems and circuitry shall include the installation.

CHARACTER OF MATERIALS AND EQUIPMENT

- A. All materials and equipment shall be new and conform to standards specified herein, defined to include conduits, cable, wiring materials and devices, panelboards, etc.
B. All materials and equipment shall be of an approved design.
C. All equipment offered under these specifications shall be limited to products regularly produced and recommended for service ratings in accordance with manufacturer's catalog engineering data or other comprehensive literature made available to the public and in effect at the time of opening bids.
D. Equipment shall be installed in strict accordance with manufacturer's instructions for type, capacity and suitability of each piece of equipment used.
E. The Electrical Contractor shall obtain the instructions which shall be considered as a part of these specifications.

MANUFACTURER'S DRAWING

- A. The Electrical Contractor shall submit to the Architect manufacturer's drawings of switchboards, lighting fixtures, switches, panelboards, dry-type transformers, fire alarm system equipment, and any special electrical equipment to be installed on this job.
B. The Electrical Contractor shall be responsible for final coordination of all electrical feeders and over current protection devices (circuit breakers and/or fuses) with the manufacturers written data for each mechanical device prior to submittal of any electrical equipment for review.
C. Failure of the subcontractor to submit shop drawings in ample time for checking shall not entitle him to an extension of contract time, and no claim for extension by reason of such default will be allowed.

AS-BUILT DRAWINGS

- A. The construction drawings shall be revised during construction to indicate the "as-built" condition. At the completion of the project, they shall serve as final "as-built" drawings.
B. Where interferences occur, the Electrical Contractor shall, before installing the work involved, consult with the Architect as to the exact location and level of his work.

STRUCTURAL DIFFICULTIES

- A. Should any structural difficulties prevent setting of cabinets, running conductors, etc., at points shown on plans, the necessary minor deviations therefrom, as determined by the Architect, may be permitted and must be made without additional cost.

COOPERATION WITH OTHER CONTRACTORS

- A. The Electrical Contractor shall arrange all parts of his work in proper relation to the work of others and to the architectural finish.
B. Where interferences occur, the Electrical Contractor shall, before installing the work involved, consult with the Architect as to the exact location and level of his work.
C. The Electrical Contractor shall be responsible for the arrangement of his work, and equipment and maintenance of proper headroom under this work.
D. If any work of the Electrical Contractor is dependent for its proper execution on continuous work not executed by him, the Electrical Contractor shall examine such work and report in writing any defects thereon or conditions rendering it unsuitable.
E. The Electrical Contractor shall provide the General Contractor with the locations and sizes of all electrical sleeve penetrations for the coordination sleeve shop drawing.

DRAWINGS AND SPECIFICATIONS

- A. The drawings are intended to show the general arrangement of outlets.
B. All outlets shall be located uniformly with respect to beams, partitions, duct openings, etc., and the general locations shall be checked with the plans and specifications before installing.
C. The drawings are intended to show the general arrangement of outlets.
D. Obtain and pay for all permits, licenses, inspections, approvals and fees required and ensure that the entire electrical installation conforms to codes and regulations required by authority or agency having jurisdiction over the entire installation or construction of work included.
E. The Electrical Contractor shall, at his expense, have an inspection made by the local electrical inspection department of the complete electrical installation and shall deliver certificate of approval of the complete work to the Owner before receiving his final payment.
F. Wherever the requirements of these specifications and drawings exceed the requirements of governing codes, laws, regulations and ordinances, these specifications and drawings shall govern.
G. Should any change in the drawings and specifications be required to conform to these codes, ordinances, laws or regulations, notify the Architect-Engineer at time of submitting proposal.
H. Obtain and pay for all permits, licenses, inspections, approvals and fees required and ensure that the entire electrical installation conforms to codes and regulations required by authority or agency having jurisdiction over the entire installation or construction of work included.

CODES, PERMITS AND FEES

- A. Obtain and pay for all permits, licenses, inspections, approvals and fees required and ensure that the entire electrical installation conforms to codes and regulations required by authority or agency having jurisdiction over the entire installation or construction of work included.
B. The Electrical Contractor shall, at his expense, have an inspection made by the local electrical inspection department of the complete electrical installation and shall deliver certificate of approval of the complete work to the Owner before receiving his final payment.
C. Wherever the requirements of these specifications and drawings exceed the requirements of governing codes, laws, regulations and ordinances, these specifications and drawings shall govern.
D. Should any change in the drawings and specifications be required to conform to these codes, ordinances, laws or regulations, notify the Architect-Engineer at time of submitting proposal.

FLASHING

- A. Where the work included under the following sections of the specifications requires conduit to pass through the roof or any other waterproofing, the conduit shall be flashed under the section concerned, and the joint made waterproof in full conformance with waterproofing warranty requirements.

PAINTING AND CLEANING

- A. See "Finishing and Painting" in Architectural Specifications.
B. Electrical metal conduit installed in earth or below vapor barrier shall be given two coats of black asphaltum.
C. Electrical luminaire support systems shall be painted with two coats of paint to match fixture.
D. Factory finish as damaged shall be retouched or replaced to satisfaction of Architect and Owner.

SLEEVES

- A. Sleeves:
1. Conduits passing through masonry and concrete walls, high stress floor slabs and roof slabs shall be provided with segments of steel pipe sleeves.
2. Conduits passing through regular slab construction shall have sleeves of a minimum #26 gauge galvanized steel.
3. Sleeves in concrete slab or walls shall be fastened in place on forms before concrete is poured.
4. Location of required openings shall be the responsibility of the Contractor installing conduit and appurtenances.

CUTTING AND PATCHING

- A. Cutting and patching of walls, floors, ceilings, roofs, etc., shall be done at the expense of the Contractor installing equipment and appurtenances, subject to the approval of the Engineer and Architect.
B. Drilling and patching for expansion bolts, shields, hangers and other SUPPORTS shall be subject to approval of the Architect.
C. Chases and grooves installed in walls and partitions shall be determined in advance of building construction.
D. Conduits in finished areas shall be concealed.
E. Fire proofing of holes shall be provided and shall be of specified material, and approved by authority having jurisdiction.

- A. The Contractor shall keep the premises free of debris and unusable materials resulting from his work and immediately upon completion of this work, he shall remove such debris and materials from the Owner's property and he shall leave all floors broom clean in areas affected by his work.

- A. Grounding and install a complete grounding system in accordance with the National Electrical Code and local codes and ordinances.
B. Grounding path from circuits, equipment, and conductor enclosures shall be permanent and continuous; have capacity to conduct safely any fault currents likely to be imposed on it, and shall have a resistance to ground of less than 5 ohms.
C. All branch circuit conductors shall include a separate copper, insulated (green), equipment grounding conductor sized per Article 250 of the National Electrical Code.

CLEAN UP

- A. The Contractor shall keep the premises free of debris and unusable materials resulting from his work and immediately upon completion of this work, he shall remove such debris and materials from the Owner's property and he shall leave all floors broom clean in areas affected by his work.

GROUNDING

- A. Grounding and install a complete grounding system in accordance with the National Electrical Code and local codes and ordinances.
B. Grounding path from circuits, equipment, and conductor enclosures shall be permanent and continuous; have capacity to conduct safely any fault currents likely to be imposed on it, and shall have a resistance to ground of less than 5 ohms.
C. All branch circuit conductors shall include a separate copper, insulated (green), equipment grounding conductor sized per Article 250 of the National Electrical Code.

- A. The Electrical Contractor shall submit to the Architect manufacturer's drawings of switchboards, lighting fixtures, switches, panelboards, dry-type transformers, fire alarm system equipment, and any special electrical equipment to be installed on this job.
B. The Electrical Contractor shall be responsible for final coordination of all electrical feeders and over current protection devices (circuit breakers and/or fuses) with the manufacturers written data for each mechanical device prior to submittal of any electrical equipment for review.

PENETRATIONS AND FIRE PROOFING

- A. All penetrations of rated fire and smoke walls shall be by conduit.
B. All penetrations of floors shall be by conduit or metal sleeves.
C. All penetration sleeves including open ended conduits not terminated in junction boxes shall be filled with Fire Sealing Material as manufactured by U. S. GYPSUM CO., or Architect approved equal for 2" in length from conduit end.

FUSES

- A. All fuses shall be furnished and installed by the Electrical Contractor.
B. Main Feeder and Branch Circuits:
Circuits 601 to 6000 amperes shall be protected by U.L. class "L" current limiting fuses.

CONDUIT

- General:
Minimum size conduit shall be 1/2".
Install exposed conduit runs parallel to or at right angles with principal structural members and with adjacent walls.
Install vertical runs perpendicular to finish floors and ceilings.
Concealed runs may take most direct route between outlets.
Use plastic or metal cap closures during construction to prevent lodgment of plaster, dirt, concrete, or trash in conduit, boxes and fittings.
Fasten and support conduit at least every 10 ft. and within 3 ft. of outlet box, junction box, cabinet, or fitting.
Ream cut ends to remove rough edges.
Where conduit is threaded in field, use conduit threading cutting die with taper.
Run of conduit between outlet and outlet, fitting and fitting, or outlet and fitting shall not contain more than equivalent of three quarter-bands (270 deg. total), including bends located immediately at outlet or fitting.
Conduit runs, including boxes, fittings, cabinet, and wireways, shall be electrically continuous throughout.
Install conduits entering boxes and cabinet with two locknuts, one inside and one outside, with bushing termination on inside.
Install conduit runs concealed within finished area.
Install conduit expansion fittings in runs which cross building expansion joints.
Fasten and support conduit with malleable iron or galvanized steel conduit straps.
Attach hangers and SUPPORTS to dry wall construction with toggle bolts.
Attach hangers and SUPPORTS to concrete or masonry construction with expansion shields and screws or bolts.
Attach hangers and SUPPORTS to structural steel shapes with beam clamps and bolts.
Fasten and support group runs of raceways with prefabricated, noncorrosive, channel systems supported with threaded hanger rods.
Terminate conduit runs in main service switchboard with grounding type insulated bushings.
Where conduit runs pass through interior fire-rated partitions or above grade concrete floors, provide fireseal fittings.
Where conduit runs pass through interior non-rated partitions or above grade concrete floors, install conduit in galvanized steel conduit sleeves.
Seal void between sleeve and conduit with approved fire proofing compound.
Unless specifically indicated otherwise on the Electrical Drawings, no conduit shall be run in the concrete slab.
Seal void between sleeve and conduit with approved fire proofing compound.
Where conduit runs pass through interior non-rated partitions or above grade concrete floors, install conduit in galvanized steel conduit sleeves.
Seal void between sleeve and conduit with approved fire proofing compound.
Unless specifically indicated otherwise on the Electrical Drawings, no conduit shall be run in the concrete slab.

LIGHTING/RECEPTACLE PANELBOARDS

- A. Panelboards for the control of general lighting, and receptacles shall be dead front type with 4 wire mains and branches of the circuit breaker type providing thermal and magnetic tripping.
B. All breakers shall be "bolt-on" type.
C. Circuit breakers shall be outter-hammer series b for 240/120 volt and series g for 480/277 volt.

Interrupting rating:

Panelboards shall have fully rated interrupting ratings. Panelboards shall be labeled with the ul short-circuit rating. When series ratings are applied with integral or remote upstream devices, a label or manual shall be provided. It shall state the condition of the ul series ratings including:

Table with 2 columns: Size and type of upstream device, Branch device that can be used, UL series short-circuit rating.

Interrupting capacity for 480/277 volt panelboards and breakers shall be not less than the fault current indicated on the drawings and a minimum of 14,000 amperes at 480 volt. Interrupting capacity for 208/120 volt panelboard and breakers shall be not less than the fault current indicated on the drawings and a minimum of 10,000 amperes at 240 volt.

Circuits 601 to 6000 amperes shall be protected by u.l. class "T" current limiting fuses. Fuses shall be time delay type and be listed by the underwriters' laboratories, inc. with an interrupting rating of 200,000 amperes rms symmetrical.

Table with 2 columns: Acceptable products, Busmann type "KRP-C", Littelfuse type "KLP-C", Reliance type "LCL".

Circuits 1 to 600 amperes shall be protected by u.l. class "tk-1" current limiting fuses. Fuses shall be dual element, time-delay type and be listed by the underwriters' laboratories with an interrupting rating of 200,000 amperes rms symmetrical.

Table with 2 columns: Acceptable products, Busmann type "LPN-RK" (250 volts) or "LPS-RK" (600 volts), Littelfuse type "LLNRK" (250 volts) or "LLSRK" (600 volts), Reliance type "LENRK" (250 volts) or "LESRK" (600 volts).

Motor circuits: all individual motor circuits rated 480 volts or less shall be protected by U.L. Class "RK-1" current limiting, dual element, time-delay type fuses. The fuses for 1.15 service factor motors shall be installed in ratings approximately 125% of motor full load current.

A fuse identification label shall be placed inside each switch door. The label shall indicate fuse type, ampere rating and interrupting rating. A warning label shall be placed on the outside and inside of each switch door warning that the installation of another size or type fuse may cause a hazardous condition.

Spare: Upon completion of the project, the contractor shall provide the Owner with spare sets of fuses equal to 10% (minimum of three) of each type and rating of installed fuses.

Connection between high voltage panel and transformer, and transformer and low voltage panel shall be made with wires in flexible steel conduit or with flexible armored cable. Flexible wiring shall be installed so as to minimize transmission of hum.

Transformers shall be Square D, ITE, or Outter-Hammer.

DRY-TYPE TRANSFORMER

Furnish and install where shown on the drawings, dry-type transformers rated as indicated with 480 volt primary with 2-1/2% above and below the normal taps and 120/208 volt, 3-phase, 4-wire secondaries. Transformers shall have group 0 insulation with temperature rise not exceeding 150 degrees C under full load in a maximum ambient of 40 degrees C.

Connection between high voltage panel and transformer, and transformer and low voltage panel shall be made with wires in flexible steel conduit or with flexible armored cable. Flexible wiring shall be installed so as to minimize transmission of hum.

Transformers shall be Square D, ITE, or Outter-Hammer.

CONDUIT

- General:
Minimum size conduit shall be 1/2".
Install exposed conduit runs parallel to or at right angles with principal structural members and with adjacent walls.
Install vertical runs perpendicular to finish floors and ceilings.
Concealed runs may take most direct route between outlets.
Use plastic or metal cap closures during construction to prevent lodgment of plaster, dirt, concrete, or trash in conduit, boxes and fittings.
Fasten and support conduit at least every 10 ft. and within 3 ft. of outlet box, junction box, cabinet, or fitting.
Ream cut ends to remove rough edges.
Where conduit is threaded in field, use conduit threading cutting die with taper.
Run of conduit between outlet and outlet, fitting and fitting, or outlet and fitting shall not contain more than equivalent of three quarter-bands (270 deg. total), including bends located immediately at outlet or fitting.
Conduit runs, including boxes, fittings, cabinet, and wireways, shall be electrically continuous throughout.
Install conduits entering boxes and cabinet with two locknuts, one inside and one outside, with bushing termination on inside.
Install conduit runs concealed within finished area.
Install conduit expansion fittings in runs which cross building expansion joints.
Fasten and support conduit with malleable iron or galvanized steel conduit straps.
Attach hangers and SUPPORTS to dry wall construction with toggle bolts.
Attach hangers and SUPPORTS to concrete or masonry construction with expansion shields and screws or bolts.
Attach hangers and SUPPORTS to structural steel shapes with beam clamps and bolts.
Fasten and support group runs of raceways with prefabricated, noncorrosive, channel systems supported with threaded hanger rods.
Terminate conduit runs in main service switchboard with grounding type insulated bushings.
Where conduit runs pass through interior fire-rated partitions or above grade concrete floors, provide fireseal fittings.
Where conduit runs pass through interior non-rated partitions or above grade concrete floors, install conduit in galvanized steel conduit sleeves.
Seal void between sleeve and conduit with approved fire proofing compound.
Unless specifically indicated otherwise on the Electrical Drawings, no conduit shall be run in the concrete slab.

Where conduit is threaded in field, use conduit threading cutting die with taper.

Run of conduit between outlet and outlet, fitting and fitting, or outlet and fitting shall not contain more than equivalent of three quarter-bands (270 deg. total), including bends located immediately at outlet or fitting.

Conduit runs, including boxes, fittings, cabinet, and wireways, shall be electrically continuous throughout.

Install conduits entering boxes and cabinet with two locknuts, one inside and one outside, with bushing termination on inside.

Install conduit expansion fittings in runs which cross building expansion joints.

Attach hangers and SUPPORTS to dry wall construction with toggle bolts.

Attach hangers and SUPPORTS to structural steel shapes with beam clamps and bolts.

Fasten and support group runs of raceways with prefabricated, noncorrosive, channel systems supported with threaded hanger rods.

Terminate conduit runs in main service switchboard with grounding type insulated bushings.

Where conduit runs pass through interior fire-rated partitions or above grade concrete floors, provide fireseal fittings.

Where conduit runs pass through interior non-rated partitions or above grade concrete floors, install conduit in galvanized steel conduit sleeves.

Seal void between sleeve and conduit with approved fire proofing compound.

Unless specifically indicated otherwise on the Electrical Drawings, no conduit shall be run in the concrete slab.

Rigid Steel and Intermediate Metal Conduit:
Install rigid steel or intermediate metal conduit when used as follows:

- Conduit runs larger than 4".
Exposed interior runs in mechanical spaces below 8 feet.
Runs installed in and below equipment concrete floor slabs.
Exposed exterior runs.
For runs where installation is subject to physical damage during construction or afterwards.

Where conduit is installed in poured concrete floors with turn out of floor, conceal radius bend completely within floor with only vertical run exposed.

Fitting shall be galvanized threaded type.

Electrical Metallic Tubing (EMT):
Install EMT when used for lighting, receptacle, appliance branch circuit wiring, auxiliary systems wiring, and HVAC control wiring concealed above furred ceilings and in partitions within finished areas.

EMT conduit may also be used for feeders run through the building.

Do not install EMT where during installation or afterwards, it will be subject to physical damage.

Do not install EMT in building slabs or encased in concrete.

Fittings shall be steel, compression type.

Rigid Non-Metallic Conduit:
Rigid non-metallic conduit shall be Schedule 40, heavy wall type, polyvinyl chloride.

Fittings shall be polyvinyl chloride for use with heavy wall type Schedule 40 PVC conduit.

Install rigid non-metallic conduit as follows:
For below grade exterior conduit runs.

For runs installed in and below building slabs.
Turn ups including elbows and risers above grade shall be rigid steel or intermediate metal conduit.

Install rigid non-metallic conduit to rigid steel conduit adapters for transitions to rigid steel conduit.

For ducts in concrete encased ductbanks.

Field bends shall be made in accordance with manufacturer's recommendations using equipment specifically intended for use with rigid non-metallic conduit.

Make conduit joints and connections watertight with use of solvent cement as recommended by conduit manufacturer.

Flexibel Metal Conduit:
Install 18 inch minimum length as final conduit connection to motors, rotating, and vibrating machinery and equipment, and dry type transformers.

Install separate grounding conductor in each length of flexible conduit and provide bonding at each end.

Fittings shall be squeeze type, malleable iron.

Flexibel Metal Tubing:
Flexibel metal tubing (FMT) may be used in 6 foot maximum length as final conduit connection to recessed lighting fixtures in plenums and furred spaces which are not subject to physical damage.

Install 4 foot minimum length as final conduit connection to recessed lighting fixtures in plenums and furred spaces which are not subject to physical damage.

Fittings shall be case machined type.

Liquidite Flexible Conduit:
Install in place of flexible metal conduit in wet locations or where subject to oil, gasoline, or other materials having a deteriorating effect on rubber.

Install separate grounding conductor on outside of flexible conduit and fitting to provide bonding as required.

Fittings shall be steel or malleable iron with external grounding lug.

Aluminum Conduit:
The use of aluminum conduit shall not be allowed.

Underground Conduit Runs:
Construct conduit runs on thoroughly compacted earth and compacted backfill.

Slope conduits toward each end.

Space conduit accurately with plastic or precast concrete spacers held firmly in place.

Coat male threads of metal conduit with white lead prior to assembly.

Rod and wand mandrel through conduit; follow by swab to clear obstruction which may cause abrasions.

Conduit Expansion Fittings:
Install as required.

Install copper bonding jumper with each expansion fitting.

SUPPORTING DEVICES
Codes and Standards

Methods of installation shall comply with the provisions of applicable sections of the latest editions of the National Electrical Code, the State of Washington Building Code, the State of Washington Electrical Code, the International Building Code, and the ICC Electrical Code, as applicable to construction and installation of electrical supporting devices.

Compliance: Comply with applicable MSS standard requirements, National Electrical Contractors Association's "Standard of Installation", UL, and Federal Specification FF-S-760.

Provide supporting devices which comply with manufacturer's standard materials, design and construction in accordance with published product information, and as required for complete installation.

Sleeves and Seals: Provide sleeves and seals, of types, sizes and materials indicated, with the following construction features:
Conduit Sealing Bushings: Factory-fabricated watertight conduit sealing bushing assemblies suitable for sealing around conduit, or tubing passing through concrete floors and walls.

Construct seals with steel sleeve, malleable iron body, neoprene sealing grommets or rings, metal pressure rings, pressure clamps, and cap screws.

Cable Supports for Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug for non-armored electrical cables in riser conduits.

U-Channel Strut Systems:
Provide U-channel strut system for supporting electrical equipment, 12-gauge hot-dip galvanized steel, of types and sizes indicated; construct with 3/16" dia. holes, 8" o.c. on top surface, with standard green finish, and with the following fittings which mate and match with U-channel.

Installation of Supporting Devices:
Install hangers, anchors, sleeves and seals as indicated. In accordance with manufacturer's written instructions and with recognized industry practices to insure supporting devices comply with requirements. Comply with requirements of NECA and NEC for installation of supporting devices.

Coordinate with other electrical work, including raceway and wiring work, as necessary to interface installation of supporting devices with other work.

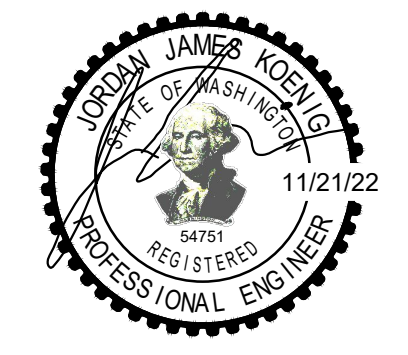
Install hangers, supports, clamps and attachments to support piping property from building structure. Arrange for grouping of parallel runs of horizontal conduits to be properly together on traverse type hangers where possible. Install supports with spacings indicated and in compliance with NEC requirements.

Torque sleeve seal nuts, complying with manufacturer's recommended values. Ensure that sealing grommets expand to form watertight seal.

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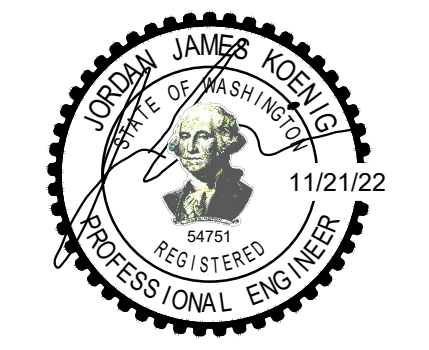
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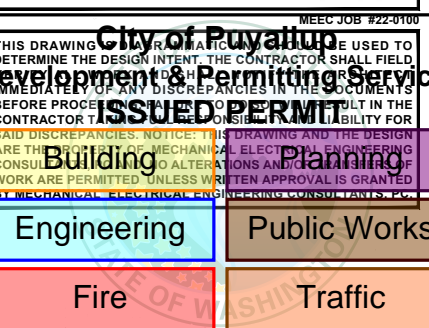
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Client: Goldfish Swim School, H&H Swim School, Puyallup, WA, F.A.# 722

Brand Standards: All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



Issue / Revision date: 11-18-22 DOH date, 11-21-22 Building Permit, 12-09-22 Addendum #1, 01-11-23 Owner Revision, 02-09-23 City Review Comments, 02-09-23 DOH Review Comments, 02-09-23 Elect. Review Comments

drawn by: M.W., checked by: J.K.

Goldfish Swim School, South Hill Mall - Unit 900-30, 3500 South Meridian, Puyallup, WA 98373

Electrical Specifications (Continued) project: sheet title:

dma DORCHEN/MARTIN Architects/Planners

Dorchen/Martin Associates, Inc. 29895 Greenfield Rd., Suite 107 Southfield, Michigan 48076 (248) 557-1062 www.dorchenmartin.com

job number: 22006, sheet number: E.402

ELECTRICAL IDENTIFICATION

General: Materials and methods of installation shall comply with the provisions of applicable sections of latest editions of the National Electrical Code, the State of Washington Electrical Code, the International Building Code, and the ICC Electrical Code as applicable to installation of identifying labels and markers for wiring and equipment. UL Compliance: Comply with applicable requirements of UL Std 969, "Marking and Labeling Systems", pertaining to electrical identification systems. ANSI Compliance: Comply with applicable requirements of ANSI Std A13.1, "Scheme for the Identification of Piping Systems". NEMA Compliance: Comply with applicable requirements of NEMA Std No's. WC-1 and WC-2 pertaining to identification of power and control conductors.

Lettering and Graphics: General: Coordinate names, abbreviations and other designations used in electrical identification work, with corresponding designations shown, specified or scheduled. Provide numbers, lettering and wording as indicated or, if not otherwise indicated, as recommended by manufacturer or as required for proper identification and operation/maintenance of electrical systems and equipment. General Installation Requirements: Install electrical identification products as indicated, in accordance with manufacturer's written instructions, and requirements of NEC. Coordination: Where identification is to be applied to surfaces which require finish, install identification after completion of painting.

Conduit Identification: General: Where electrical conduit is exposed in spaces with exposed mechanical piping which is identified by a color-coded method, apply color-coded identification on electrical conduit in manner similar to piping identification. Underground Conduit and Cable Identification: General: During back-filling/top-soiling of each exterior underground electrical conduit, and signal or communication cable, install continuous underground-type plastic line marker, located directly over buried line at 6" to 8" below finished grade.

Equipment/System Identification: General: Install engraved plastic-laminate sign on each major unit of electrical equipment in building; including central or master unit of each electrical system including communication/ control/signal systems, unless unit is specified with its own self-explanatory identification or signal system. Panelboards, electrical cabinets and enclosures. Major electrical switchgear. Install signs at locations indicated or, where not otherwise indicated, at location for best convenience of viewing without interference with operation and maintenance of equipment.

WIRE AND CABLE

All wiring shall be run in conduit. Wire shall be as manufactured by Anaconda, Walker, General Cable, or Southwire, and shall be copper, minimum conductivity of 98 percent. Feeders and branch circuit wiring shall be 600 volt rated, 75 deg. C insulated type XHHW, THW, THHN or THWN. Conductors installed in runs within 6 inches of heating pipes shall be type AVA. No conductors shall be drawn into conduit until all work which may cause cable damage is completed.

Outlet boxes shall be zinc-coated and shall be of the size and type to accommodate: Structural conditions Size and number of conductors and conduit entering Devices or fixtures for which required.

OUTLET BOXES

Outlet boxes shall be zinc-coated and shall be of the size and type to accommodate: Structural conditions Size and number of conductors and conduit entering Devices or fixtures for which required.

WIRING DEVICES

Switches shall be 20 amperes, 277/120 volts. They shall be single pole, three-way or four-way as required. Ground fault receptacles shall be specification grade, duplex type, rated 20 ampere, 125 volt, UL listed under 498 Receptacle Requirements and 943 Class A Requirements. Combination receptacle/USB charger shall be specification grade 15 ampere, 125 volt. Tamper resistant receptacles shall be specification grade, duplex type, rated 20 ampere, 124 volt. Switch with pilot light shall be 20 amperes, 120 volt, single-pole, with illuminated handle.

WEATHERPROOF BOXES AND COVERS

Wiring devices installed at exterior locations shall be installed in a single gang, deep weatherproof box with white-in-use cover per NEC Section 408.8(B)(1). Boxes and covers shall be constructed of polycarbonate and shall be fully gasketed. The translucent cover shall include a pad-lockable, break-resistant bulwose and latch. Pass & Seymour #WUUC10-DC or equal.

DEVICE PLATES

Device plates shall be stainless steel type 302, Hubbell "S" series, or as selected by the architect or Owner.

CONNECTION OF MECHANICAL AND POOL EQUIPMENT

The Electrical Contractor is cautioned to note carefully other sections of these specifications describing electrical equipment to be furnished under those sections in order that he may fully understand the wiring requirements. The Electrical Contractor shall be responsible for final coordination of all electrical feeders and over current protection devices (circuit breakers and/or fuses) with the manufacturers written data for each mechanical device prior to submittal of any electrical equipment for review. All additional compensation will be allowed for any changes to electrical feeders or over current protection devices required for any mechanical devices. All power wiring and feeders for mechanical equipment shall be furnished and installed by the Electrical Contractor. Motor starters which are not an integral part of equipment shall be furnished and installed by the Electrical Contractor. Safety or disconnect switches where indicated or required shall be furnished and installed by the Electrical Contractor. Motor control wiring and equipment will be furnished and installed by the Mechanical Contractor unless otherwise noted or indicated on the drawings. All pool equipment circuits shall be routed thru contactors to de-energize equipment upon activation of emergency power-off (EPO) pushbutton.

SAFETY DISCONNECT SWITCHES

Switches shall be quick-make, quick-break type, horsepower rated. All switches shall be NEMA type HD (heavy duty). In-door enclosures shall be NEMA 1, indoor; outdoor enclosures shall be NEMA 3R, raintight. Switches located in the pool area and pool equipment room shall be stainless steel to resist corrosion. Equip fusible switches with Class R, rejection type fuse clips. Safety disconnect switches shall be manufactured by: Square D Company, General Electric, Siemens Energy & Automation, or Cutler-Hammer.

MOTOR STARTERS

Each motor shall be provided with a motor starter of proper design to meet the requirements of the motor and drive. Starters shall be as specified in this section unless modified by other sections of these specifications or by details or control diagrams on the drawings. Starters shall be magnetic type and have NEMA Type 1 general purpose enclosures for indoor use. Weatherproof enclosures when indicated shall be NEMA 3R. Starters located in the pool area and pool equipment room shall be stainless steel to resist corrosion. Enclosures shall be so designed that entire starter can be readily removed and of sufficient size to permit easy access for repair, replacement and connections. Starters shall be arranged for wall, floor panel-mounting and shall be complete with all necessary frames and supports. Starters shall be equipped with contacts to break each ungrounded line to the motor. Thermal overcurrent devices shall be provided to open all contacts simultaneously. Overcurrent devices shall be rated in amperes to correspond to the motor nameplate rating, but the rating shall not exceed that recommended by the motor manufacturer for the application. Each starter shall have a horsepower rating not less than the rating of the motor it controls.

Magnetic starters shall be provided for all 3-phase motors. Magnetic starters shall be full voltage (across the line) type with phase failure and phase reversal with time delay including overvoltage and undervoltage protection, for automatic control. Magnetic starters shall be equipped with 2 N.O. and 2 N.C. auxiliary contacts, control power transformer with one secondary fuse, hand-off-automatic selector switch mounted on starters case, and connected to motor can be manually operated regardless of the position of the automatic control device. Selector switch shall not be connected to supersede any safety device or safety interlock. Manual starters shall be provided for all single phase motors. Manual starters shall be equipped with a manually operated trip free switch. Hand-off-automatic switches shall be provided where starters are controlled by automatic devices. The functions, locations, etc., shall be as specified under magnetic starters. Motor starters shall be manufactured by: Square D Company, General Electric, Siemens Energy & Automation, or Cutler-Hammer.

EMERGENCY LIGHTING

The Electrical Contractor shall install an emergency lighting system as shown on the drawings, conforming to the Massachusetts Building Code. Branch circuit conductors for emergency lights shall not run in raceway with other branch circuit conductors, nor shall they enter an outlet box with other wiring.

EMERGENCY LIGHTING UNITS

Furnish and install battery operated emergency lighting units at locations indicated on the plans of types scheduled on plans. Emergency lighting units shall include a suitable shelf or wall mounting bracket and shall contain all necessary modules, ready and high charge indicator pilot lights, test switch, lamps, and suitable terminal boards for connection of normal electrical supply cable. Batteries shall be lead calcium type, or ni-cad type, as scheduled. Battery charger shall be designed as to maintain the batteries fully charged on the trickle rate. Emergency lighting units utilizing incandescent lamps or halogen lamps rated less than scheduled on the drawings will not be acceptable. Consult Lighting Fixture Schedule for minimum acceptable equipment ratings. Any equipment submitted not meeting the minimum requirements will be rejected.

LIGHTING FIXTURES

The Electrical Contractor shall furnish, install and connect complete to the building wiring system ready for satisfactory operation, all lighting fixtures for the building as shown on the schedule of fixtures. All lighting fixtures shall bear Underwriters' inspection label. LED fixtures, unless otherwise indicated shall be suitable for 120 Volt, single phase, A.C., 60 Hertz service and shall be equipped with the quantity and LED lamps with lumens as specified on the drawings. Lighting fixture locations shown on plan are approximate. The Electrical Contractor shall verify the exact location of all lighting fixtures with the Architectural Reflected Ceiling Plan. Light fixture locations shall, unless otherwise noted, take precedence over air distribution locations. Each fixture shall be supplied with the necessary straps, supports, hangers, or other miscellaneous materials and devices to install them in a satisfactory manner and to conform to the architectural treatment in the areas in which they are to be installed. The Electrical Contractor shall consult all architectural plans in order that he may familiarize himself with all the necessary details for the various units to be installed throughout the building. Failure to do this will not relieve him of the responsibility of furnishing complete all necessary materials, etc., to perform the function intended for the lighting system shown on the drawings.

All fixtures shall have installed by the Electrical Contractor, lamps of the wattage specified on the plans. H.I.D. lamps are unacceptable for this project. All fixtures shall be cleaned prior to final acceptance by Owner. All used lamps shall be replaced with new lamps at time of final inspection. All drivers shall be as indicated on drawings.

Installation: Light fixtures shall be installed in accordance with manufacturer's recommendations. Surface-mounted LED fixtures shall be mounted directly to outlet box equipped fixture stud or mounting bar. Recessed-mounted LED fixtures shall be mounted with support rails attached to ceiling suspension support system. Surface and Recessed-Mounted LED Fixtures: Mount with support rails attached to ceiling suspension support system, provided ceiling system has been certified to be suitable to support weight of fixture. Where ceiling system has not been certified to support weight of fixture, independent support from building structure above ceiling with No. 12 gauge galvanized steel wire not less than four points near corners of fixture. Surface-Mounted LED Fixtures: Mount with support rails attached to ceiling suspension support system provided ceiling system has been certified to be suitable to support weight of fixture. Where ceiling system has not been certified to support weight of fixtures, support fixtures independently from building structure above ceiling with No. 12 gauge galvanized wire at not less than four points near corners of fixture. Fixtures mounted in suspended lay-in grid ceiling systems or tee bar grid flanges shall be provided with T-bar safety clips. Provide 4 clips per fixture. Adjustable Fixtures: Adjust to illuminate intended area or as directed. Adjust exterior fixtures during hours of darkness. Lighting fixtures whose light photometrics are dependent on lamp orientation shall have fixtures oriented per Manufacturer's recommendation. Architectural drawings, where applicable, shall be used for exact location of light fixtures.

Conventional duct smoke: 1) Air duct smoke detectors shall be listed by Underwriters Laboratories per U.L. 268A. The detectors shall operate at air velocities from 300 to 4,000 feet per minute. The duct detector housing shall have a metal chassis with a plastic cover and mechanical installation may be performed without removal of the detector cover. Visual indication of alarm must be provided on the detector. A manual reset/test switch shall be located on the front of the device. Detector heads shall not require additional filters or screens which must be maintained. The housing shall contain a detector base which will accept photoelectric or ionization heads. Terminal connections shall be of the screw type. Terminals shall be provided for remote alarm indication and remote reset/test switches. All wiring must comply with local codes and regulations. Duct smoke detector remote test station: Duct smoke detectors shall include a remote test station with red LED alarm and magnet test switch. Duct smoke detector remote test stations shall provide remote pilot and alarm indication for each duct smoke detector. Locations of all duct smoke detector remote test stations shall be as directed by Architect. Fixed temperature shall operate on either 135oF or 200oF. Detectors shall be off-white in color and mounted to standard outlet boxes. Combination shall operate on both the fixed temperature of 135oF or 190oF and the rate-of-rise principle. Detectors shall be off-white in color and mounted to standard outlet boxes. All visual indicating appliances specified herein shall be: Xenon strobe with minimum candela of 15 of and repetition rate of 1 HZ, not exceeding 3 HZ and a maximum duty cycle of 40% with a pulse duration of 0.2 seconds. Unfiltered or clear white light. Mounted at a height of maximum 80 inches above finish floor level, or six inches below ceiling level whichever is lower. Horns for alarm condition shall be furnished to provide minimum of 15dB above ambient sound levels. Maximum sound levels shall not exceed 120 dB, provisions shall be made to adjust the audible levels accordingly. Horns and Horn/Strobes: The horns shall have two selectable tone options, two audibility options, and the option to switch between temporal 3 pattern and a non-temporal pattern. The horn shall mount on 4" square x 2-1/8" deep box with 1-1/2" extension ring. Visual signal shall be minimum of 15 candela. Actual strobe coverage shall be calculated based on NFPA 72-93/1996. The horn/strobes shall mount on 4" square x 2-1/8" deep box with 1-1/2" extension ring. Fire alarm contractor shall select candela ratings for all visual devices based on NFPA requirements. Exterior alarm bells shall be 6" or 10" underdome type, vibrating polarized with screw terminals or multiple leads for field wire terminations. Control panel annunciator shall be as follows: The face plate shall have all designations engraved or etched and filled with a color pigment. All pilot indicators shall be LED lamp-proof lamps. A lamp test feature shall be provided. Mount annunciator panel in vestibule at a location approved by the local Fire Marshal.

TELEPHONE RACEWAY SYSTEM: The Electrical Contractor shall install a complete system of sleeves, conduits, cabinets, etc., as shown on the drawings. All conduits shall be provided with fish wire. ACCESS PANELS: Contractor shall furnish to the appropriate subcontractor, all access doors required for access to junction boxes, disconnect devices and other equipment. Access panels shall be Milcor Stylo "DW" or "M" as manufactured by INRYCO of sizes required for adequate access. Minimum size shall be 24"x24" for ceiling or soffits. GUARANTEE: The Electrical Contractor shall leave the electrical installation in proper working order and shall, without charge, replace any work or materials which develop defects, within one (1) year from date of final inspection and acceptance by the Owner. FIRE ALARM AND SMOKE DETECTION SYSTEM: General requirements: The contractor shall hire a N.I.C.E.T. certified designer to design a complete code compliant fire alarm system. The contractor shall furnish and install a complete new intelligent addressable fire alarm stem of components, which include, but shall not be limited to; fire alarm control panel, power supplies, initiating devices, audible alarm and visual notification appliances as appropriate, conduit, wiring, fittings, and all other accessories and auxiliaries necessary to provide a complete and operable system. The system shall include the control unit, all alarm initiating and indicating devices and outlet boxes, conduit, wire, etc. Necessary for a complete operational system meeting the following requirements. The system shall operate from one leg of a 120/208 volt, 60 Hz electrical service and receive supervisory power from the other leg. All components of the system shall be listed by the Underwriters Laboratories, Inc. for their intended use. All components an operational sequence shall be approved by the authority having jurisdiction. Agency Approvals: All equipment shall be listed by Underwriters Laboratories, Inc., approved by factory mutual or as accepted by the authority having jurisdiction. All equipment catalog cuts, riser diagrams and system installation requirements, including sequence of operation, shall be submitted to the Local Fire Marshal's office and approved in writing, prior to submitting of shop drawings to Architect. The fire alarm system installed under this specification shall, in its entirety, be in compliance with all applicable fire and electrical codes and comply with the requirements of the local authority having jurisdiction over said systems. Accessory components as required shall be catalogued by the manufacturer and U.L. Listed to operate with the manufacturer's control panel. Operation: The operation of any alarm initiating device shall cause the following to occur: Activate all audible alarm indicating devices until purposely silenced. A subsequent alarm on another initiating zone shall reinstate the alarm. All visual indications of the alarm shall remain on the control unit and remote annunciator until the initiating device is returned to normal and the system reset. Flash all visual "FIRE" indicators. Release all magnetically held door holders (where applicable). Shut down all air handlers. Indicated the zone on the fire alarm control panel and indicate the type of initiating device. Provide a set of SPDT alarm contacts and dialer to provide connection by telephone to a central monitoring station. Coordinate exact requirements with Owner's security system vendor. Supervision: The system shall be electrically supervised against opens and grounds. All alarm initiating circuits and indicating circuits shall be Class "B". Any electrical fault which effects the operation of a circuit shall sound an audible and visual trouble indication on the control panel and the remote annunciators. It may be possible to silence the audible, however, the visual indicator must remain until the trouble condition is restored to normal. The switch shall be provided with a "ring back" feature. If the trouble condition is on an alarm initiating or indicating circuit, the effected circuit must be indicated on the control panel. Disarrangement of one or more initiating or indicating circuits will not affect the proper operation of the remainder of the system. Components-Control panel shall be of a size and capacity to meet the requirements of this specification and the system as detailed on the drawings. The control panel shall be modular, housed in a code gauge metal enclosure with a hinged door with a cylinder key lock. The enclosure shall have an enamel finish with ceramic knockouts on the top and bottom. All indicators shall be visible with the door closed. All switches shall be inaccessible unless the door is opened. The alarm silence switch shall have a subsequent alarm or resound feature. A lamp test shall be provided for all visual indicators. The control panel shall have an integral audible trouble signal. Zoning: Provide a minimum of two zones per floor with one initiating circuit for each zone. The type of device indication may be from auxiliary contacts on initiating devices. Initiation circuits shall be provided in accordance with the plans and the following: Circuits shall be configured so that smoke detector operating power shall be derived from the alarm initiating circuit. No manual station, or heat detector shall be connected to any circuit to which smoke detectors are connected. Alarm Initiating Devices: Manual stations shall be of the pull lever or side action, non-code type. The construction shall be deat with raised letters of contrasting color. An instruction card and frame shall be mounted above each manual station consistent with the authority. Smoke detectors shall be photo-electric type and shall operate on the light refraction principle. Detectors shall be plug-in with visual alarm indicator. It shall be possible to field adjust and measure the detectors relative sensitivity with a meter.



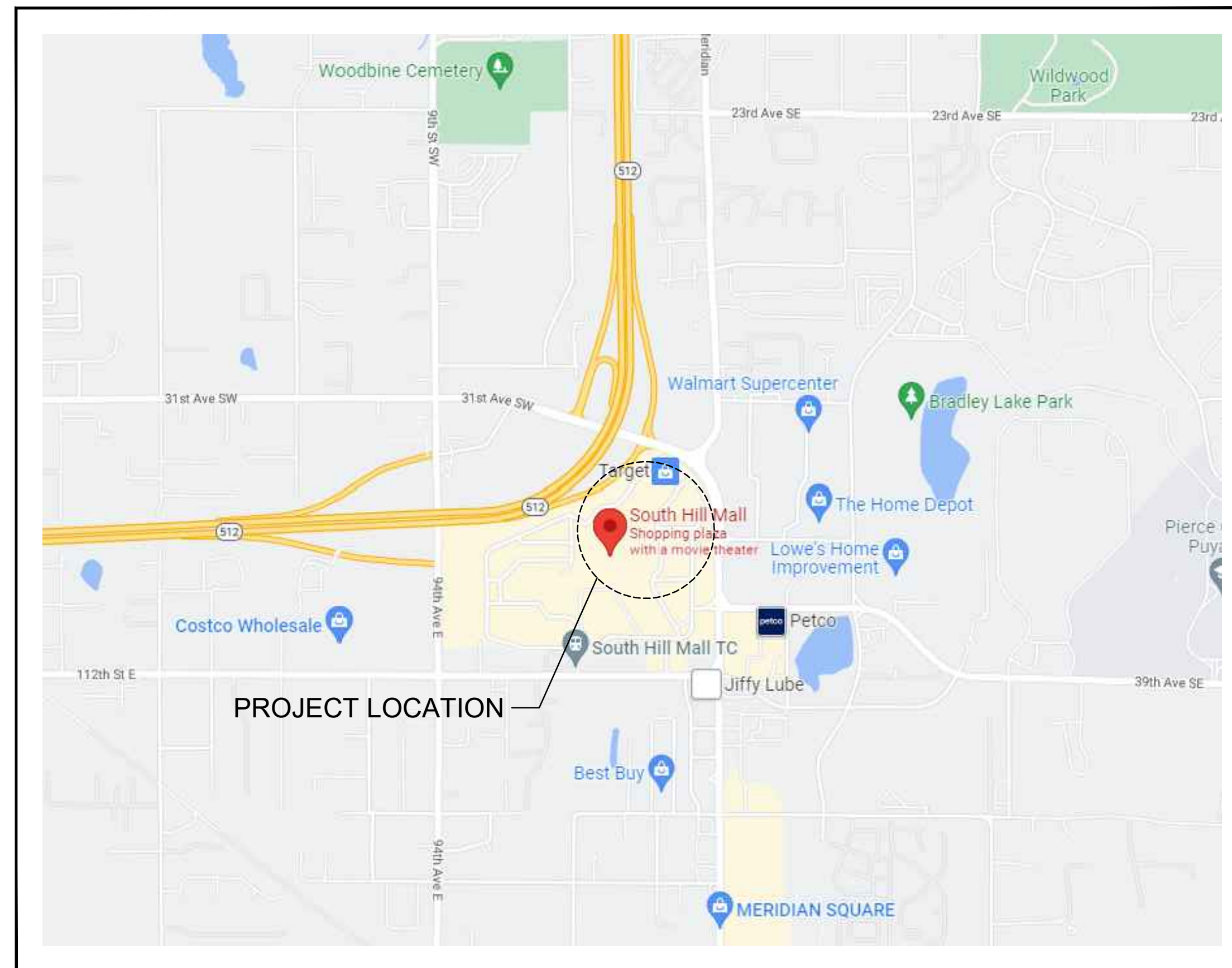
# GOLDFISH SWIM SCHOOL

## SOUTH HILL MALL - UNIT 900-30

### 3500 SOUTH MERIDIAN

### PUYALLUP, WA 98373

#### LOCATION MAP



#### SHEET INDEX

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architect seal

City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Client

Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards

All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.



issue / revision date

11-21-22 Building Permit  
01-11-23 Owner Revision

02-09-23 City Review Comments  
02-09-23 DOH Review Comments  
02-09-23 Elect. Review Comments


drawn by

checked by

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

project: sheet title:

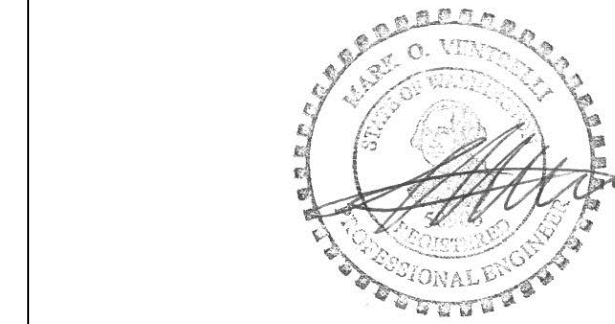
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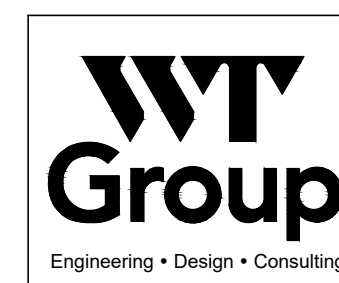
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PRCTI20221793

SPECIFICATION

- 1.1 GENERAL
A. SECTION INCLUDES:
1. LAYOUT OF POOL; BENCH MARK AND EXACT LOCATION OF BENCH MARK WILL BE FURNISHED BY THE OWNER / ARCHITECT.
2. EXCAVATION AND STONE FILL AS REQUIRED FOR POOL TANK STRUCTURE AND PIPE TRENCHING.
3. REINFORCED CONCRETE POOL TANK STRUCTURE, AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
4. POOL MECHANICAL SYSTEMS, INCLUDING PIPING, RECIRCULATION SYSTEM, FILTRATION SYSTEM, AND WATER CHEMICAL TREATMENT SYSTEMS.
5. INTERIOR POOL FINISH, DIAMOND BRITE, AND CERAMIC TILE.
6. POOL DECK EQUIPMENT AND ACCESSORY EQUIPMENT AS SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN.
7. MISCELLANEOUS POOL TESTING, SAFETY, AND CONTROL EQUIPMENT AS REQUIRED BY THE DEPARTMENT OF PUBLIC HEALTH.
8. POOL START-UP, CLOSING, AND INSTRUCTION OF OWNERS PERSONNEL.
B. REFERENCES:
1. ACI 315 - MANUAL OF STANDARD PRACTICE FOR DETAILED REINFORCED CONCRETE STRUCTURES.
2. ACI 318 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
3. ASTM A615 - SPECIFICATION FOR DEFORMED AND PLAIN BILLET STEEL BARS FOR CONCRETE REINFORCEMENT.
4. ASTM B88 - SPECIFICATION FOR SEAMLESS COPPER WATER TUBE.
5. ASTM C31 - PRACTICE FOR MAKING AND CURING CONCRETE TEST SPECIMENS IN THE FIELD.
6. ASTM C33 - SPECIFICATION FOR CONCRETE AGGREGATES.
7. ASTM C39 - TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS.
8. ASTM C94 - SPECIFICATION FOR READY-MIXED CONCRETE.
9. ASTM C143 - TEST METHOD FOR SLUMP OF HYDRAULIC CEMENT CONCRETE.
10. ASTM C150 - SPECIFICATION FOR PORTLAND CEMENT.
11. ASTM C172 - METHOD OF SAMPLING FRESHLY MIXED CONCRETE.
12. ASTM C231 - TEST METHOD FOR AIR CONTENT OF FRESHLY MIXED CONCRETE BY THE PRESSURE METHOD.
13. ASTM C260 - SPECIFICATION FOR AIR ENTRAINING ADMIXTURES FOR CONCRETE.
14. ASTM C494 - SPECIFICATION FOR CHEMICALS ADMIXTURES FOR CONCRETE.
15. ASTM D1785 - SPECIFICATION FOR STANDARD SPECIFICATION POLYVINYL CHLORIDE (PVC) PLASTIC PIPE SCHEDULES 40, 80, AND 120.
16. ASTM D1784 - SPECIFICATION FOR RIGID POLY VINYL CHLORIDE (PVC) COMPOUNDS AND CHLORINATED POLY VINYL CHLORIDE (CPVC) COMPOUNDS.
17. ASTM D2564 - SPECIFICATIONS FOR SOLVENT CEMENTS FOR POLY VINYL CHLORIDE (PVC) PLASTIC PIPE AND FITTINGS.
18. ASTM D2855 - PRACTICE FOR MAKING SOLVENT-CEMENTED JOINTS WITH PVC PIPE AND FITTINGS.
19. CRSI - CONCRETE REINFORCING STEEL INSTITUTE - MANUAL OF PRACTICE.
20. NSF - SEAL FOR POTABLE WATER.
21. ANSI/ITCA A137.1 - SPECIFICATIONS FOR CERAMIC TILE.
C. DEFINITIONS:
1. THE TERM "POOL" AS USED IN THIS SECTION SHALL REFER TO THE SWIMMING POOL.
2. THE TERM "CONCRETE" AS USED IN THIS SECTION SHALL REFER TO CONCRETE FOR POOL CONSTRUCTION ONLY.
3. THE TERM "ARCHITECT/ENGINEER" AS USED IN THIS SECTION SHALL REFER TO THE POOL DESIGN ONLY.
D. SYSTEM DESCRIPTION:
1. PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION OF THE POOL. THE ABOVE WILL BE COMPLETE WILL ALL EQUIPMENT AS INDICATED ON THE CONSTRUCTION DOCUMENTS. CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES.
E. SUBMITTALS:
1. SUBMIT UNDER PROVISIONS OF SECTION 01300.
2. PRODUCT DATA: PROVIDE MANUFACTURER'S/INSTALLER'S WRITTEN INSTALLATION INSTRUCTIONS.
3. SAMPLES: SUBMIT TILE SAMPLES, AND OTHER SAMPLES OF MATERIALS, FINISHES, AND TRIM AS MAY BE REQUESTED BY THE ARCHITECT/ENGINEER.
4. OPERATION AND MAINTENANCE MANUALS: SUBMIT 4 COPIES IN ACCORDANCE WITH THE REQUIREMENTS IN SECTION 01700.
5. REQUIRED SUBMITTALS:
a. CONCRETE MIX DESIGN
b. PUMPS, STRAINER
c. FILTER
d. CHEMICAL FEEDER
e. VALVES
f. GAUGES, THERMOMETERS, FLOW METERS
g. POOL WATER TEST KIT
h. DECK EQUIPMENT
i. INLETS, MAIN DRAINS
j. SAFETY EQUIPMENT
k. MAINTENANCE EQUIPMENT
l. PIPING MATERIALS
m. TEST RESULTS:
• TESTING
• COMPACTION
• PIPING PRESSURE TESTING
n. SAMPLES:
• CERAMIC TILE
• DIAMOND BRITE
o. GUARANTEES WARRANTEES:
• STANDARD (1) YEAR
• SPECIAL (2) YEAR ON CONCRETE STRUCTURE
• FILTER TANK (10)
p. CLOSE OUT DOCUMENTS:
• O&M MANUALS
• OWNERS CERTIFICATION OF INSTRUCTION
F. QUALITY ASSURANCE:
1. QUALIFICATIONS OF POOL SUB-CONTRACTOR/EQUIPMENT SUPPLIER: WORK OF THIS SECTION SHALL BE PERFORMED BY A CONTRACTOR WHO HAS A PROVEN RECORD OF COMPETENCE AND EXPERIENCE IN THE CONSTRUCTION OF SIMILAR FACILITIES OF THIS SIZE AND COMPLEXITY FOR NOT LESS THAN 5 YEARS. REFERENCES WILL BE REQUIRED BY THE OWNER.
2. PERFORMANCE CRITERIA: CERTAIN SECTIONS OF THE SPECIFICATIONS CONTAIN PERFORMANCE CRITERIA RATHER THAN PRODUCT DESCRIPTIONS. IT SHALL BE THE OBLIGATION OF THE CONTRACTOR/EQUIPMENT SUPPLIER TO INSURE THAT ALL CRITERIA ARE SATISFIED AND THE BURDEN OR PROOF OF CONFORMANCE SHALL REST WITH THE CONTRACTOR/EQUIPMENT SUPPLIER. THE ARCHITECT/ENGINEER SHALL REQUIRE COMPLETE CALCULATIONS, PAST PERFORMANCE RECORDS AND, IF REQUIRED, INSPECTION TRIPS OF SIMILAR FACILITIES TO SUBSTANTIATE CONFORMANCE WITH THESE CRITERIA. THE ARCHITECT/ENGINEER SHALL BE SOLE JUDGE OF CONFORMANCE. THE POOL SUB-CONTRACTOR/EQUIPMENT SUPPLIER IS CAUTIONED THAT HE WILL BE REQUIRED TO PROVIDE A FINISHED PRODUCT MEETING ALL STATED CRITERIA AND MEETING OR EXCEEDING DEPARTMENT OF HEALTH REQUIREMENTS.
G. REGULATORY REQUIREMENTS:
1. ALL APPLICABLE LOCAL BUILDING AND HEALTH CODES.
2. NATIONAL ELECTRICAL CODE (2008 NEC)
3. NATIONAL SANITATION FOUNDATION (NSF): SEAL OF APPROVAL PROGRAM.
4. WASHINGTON DEPARTMENT OF PUBLIC HEALTH SWIMMING POOL CODE
5. ASME CODE AND LABEL.
H. REQUIRED PERMITS:
1. WASHINGTON DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL BY ARCHITECT.
2. COUNTY AND LOCAL BUILDING DEPARTMENTS.
I. DELIVERY, STORAGE AND HANDLING:
1. DELIVER, STORE, PROTECT AND HANDLE PRODUCTS TO SITE UNDER PROVISIONS OF SECTION 01600.
2. DELIVER ALL MATERIALS AND EQUIPMENT TO THE WORK SITE IN ORIGINAL PACKAGES FULLY IDENTIFIED, WITH MANUFACTURER'S LABEL STORE OFF GROUND AND PROTECT FROM WEATHER WITH A SUITABLE COVERING.
3. DELIVER CEMENTITIOUS MATERIALS TO SITE IN MANUFACTURER'S STANDARD PACKAGES. IMMEDIATELY UPON DELIVERY TO WORK SITE, STORE IN WATERPROOF SHEDS. NO CEMENTITIOUS OR OTHER MATERIAL THAT HAS BECOME CAKED OR HARDENED WILL BE PERMITTED IN THE WORK.
4. PROTECT PLASTIC PIPE FROM EXPOSURE TO CHEMICALS (AROMATIC HYDROCARBONS, HALOGENATED HYDROCARBONS AND OTHER ESTERS AND KETONES) THAT MIGHT ATTACK THE MATERIAL. PROTECT ALL PIPE FROM MECHANICAL DAMAGE AND LONG EXPOSURE TO SUNLIGHT DURING STORAGE.
J. ENVIRONMENTAL REQUIREMENTS:
1. ALL TILE WORK IS TO BE PERFORMED AT 50 DEGREES F MINIMUM DURING INSTALLATION. THIS TEMPERATURE IS TO BE MAINTAINED FOR 7 DAYS AFTER COMPLETION OR FURNISH ADEQUATE PROTECTION AS APPROVED BY THE ARCHITECT.

SPECIFICATION

- K. WARRANTY:
1. WARRANTY: PROVIDE ONE (1) YEAR WARRANTY COVERING ALL POOL WORKMANSHIP, MATERIALS AND EQUIPMENT. REFER TO SECTION 01600 FOR ADDITIONAL REQUIREMENTS.
2. SPECIAL PROJECT WARRANTY ON CONCRETE STRUCTURE: THE POOL SUB-CONTRACTOR SHALL GUARANTEE FOR TWO (2) YEARS REPAIR OF THE CONCRETE POOL STRUCTURE COVERING ANY DEFECTS, CRACKS, AND/OR LEAKING IN THE POOL SHELL CAUSED BY DEFECTIVE WORKMANSHIP OR MATERIAL.
3. ALL STANDARD MANUFACTURER'S WARRANTIES SHALL APPLY TO ALL EQUIPMENT AND PRODUCTS PROVIDED BY THIS SUBCONTRACTOR.
4. FILTER TANKS SHALL HAVE A TEN (10) YEAR WARRANTY, ALL LABOR AND WORKMANSHIP IS TO BE GUARANTEED FIRST CLASS AND CARRY A ONE (1) YEAR UNCONDITIONAL WARRANTY.
5. MUST BE CERTIFIED DIAMOND BRITE INSTALLER AND COMPLETE 5 YEAR WARRANTY CERTIFICATE FOR OWNER.
L.2 PRODUCTS
A. CONCRETE MATERIALS:
1. PORTLAND CEMENT: ASTM C150, TYPE I.
2. COARSE AGGREGATE: REFER TO ASTM C33.
3. SAND: REFER TO ASTM C33.
4. ADD MIXTURES:
a. AIR ENTRAINING: REFER TO ASTM C260.
b. WATER REDUCING: REFER TO ASTM C494, TYPE A OR D.
B. REINFORCING STEEL:
1. REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED.
2. WELDED WIRE FABRIC: ASTM A 185, WELDED STEEL WIRE FABRIC.
3. SUPPORTS FOR REINFORCEMENT: BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS AND WELDED WIRE FABRIC IN PLACE. BRICKS OR BLOCKS ARE NOT ALLOWED. USE WIRE TYPE SUPPORTS COMPLYING CRSI SPECIFICATIONS.
4. PLACING REINFORCING STEEL: PLACE REINFORCING STEEL IN CONFORMANCE WITH THE INFORMATION ON THE CONTRACT DOCUMENTS AND CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS, EXCEPT AS MODIFIED HEREIN. MINIMUM LENGTH OF SPLICES SHALL BE AS SHOWN ON CONTRACT DOCUMENTS. TIE SPLICES WITH 18-GAUGE ANNEALED WIRE AS SPECIFIED IN THE REFERENCED CRSI STANDARD.
C. FILTRATION SYSTEM:
1. GENERAL REQUIREMENTS
2. CONTRACTOR IS ADVISED THAT THE DESCRIPTION, CATALOG NUMBERS AND MANUFACTURER'S NAMES OF CERTAIN PIPES AND EQUIPMENT ACCESSORIES LISTED ON DRAWINGS, ARE NOT REPEATED IN THE SPECIFICATION.
3. PROJECT DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL REQUIREMENTS AS TO SIZE OF PIPE, VALVES AND APPURTENANCES AND TO THE LOCATION OF FIXTURES. IF INSTALLED PIPING WILL INTERFERE WITH INSTALLATION OF OTHER WORK SHOWN, THE CONTRACTOR AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES AS DIRECTED.
4. LAWS AND ORDINANCES: THE PLUMBING WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PLUMBING PROVISIONS OF THE ILLINOIS SWIMMING POOL CODE. WHERE PLANS SHOW OR SPECIFICATIONS CALL FOR SIZES OF MATERIALS IN EXCESS OF THOSE REQUIRED BY CODE, THE PLANS SPECIFICATIONS SHALL GOVERN THE INSTALLATION.
5. SUBSTITUTES: CONTRACT IS BASED UPON FURNISHING MATERIALS AND EQUIPMENT STRICTLY IN ACCORDANCE WITH THE TYPE AND MAKES SHOWN AND/OR CALLED FOR IN THE SPECIFICATIONS. CONSIDERATION WILL BE GIVEN FOR SUBSTITUTIONS THAT ARE EQUAL TO IN EVERY RESPECT TO THOSE SPECIFIED AND/OR SHOWN.
6. COOPERATION: WORK HEREUNDER SHALL BE SCHEDULED, PLANNED EXECUTED SO AS NOT TO INTERFERE WITH OR DELAY ANY OTHER WORK UNDER THE CONTRACT.
7. CONTRACTOR SHALL MAKE ALL NECESSARY OPENINGS AND ALSO FURNISH AND INSTALL ALL PIPE AND FIXTURE SUPPORTS AND ANY OTHER FIXTURE DETAILS TO BE PLACED IN CONCRETE OR ANY OTHER PARTS OF THE STRUCTURE.
8. MATERIALS IN GENERAL: CONTRACTOR SHALL SUBMIT FOR APPROVAL, SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIAL, AND/OR EQUIPMENT THAT HE PROPOSES TO USE IN THE WORK. SUCH EVIDENCE SHALL INCLUDE NAME OF MANUFACTURER, THE PERFORMANCE CAPACITY AND OTHER PERTINENT INFORMATION IF INSTALLED WITHOUT THE REQUIRED APPROVAL, MATERIAL AND EQUIPMENT WILL BE SUBJECT TO SUBSEQUENT REJECTION. THE SPECIFIED REQUIREMENTS FOR MATERIALS SHALL BE CONSIDERED AS THE MINIMUM.
9. EQUIPMENT REQUIREMENTS
a. GENERAL: PROVIDE A FILTRATION SYSTEM AS SHOWN AND SCHEDULED ON CONTRACT DOCUMENTS. ALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
10. COMPONENTS
a. FILTERS SHALL BE NSF APPROVED. SUCH APPROVAL SHALL BE EVIDENCED BY THE FILTER MODEL NUMBER APPEARING IN THE CURRENT NSF TESTING LABORATORY LISTING FOR SWIMMING POOL FILTERS AS SUITABLE TO FILTER AT THE FLOW RATE REQUIRED FOR THIS PROJECT.
D. WATER TREATMENT:
1. PROVIDE A WATER TREATMENT SYSTEM AS SHOWN AND SCHEDULED ON CONTRACT DOCUMENTS. ALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. FURNISH OWNER WITH WRITTEN WATER TREATMENT PROGRAM COMPLETE WITH WRITTEN BASIC WATER CHEMICAL ANALYSIS AND VERBAL INSTRUCTIONS AS TO OPERATE OF SYSTEM.
3. PROVIDE A TEST KIT WITH SLIDE COMPARATOR, 0.5 - 10 PPM DPH, PH, ALKALINITY, HARDNESS, CYANURIC ACID AND BASE DEMAND. TEST KIT SHALL BE PROFESSIONAL COMPLETE TEST KIT AS MANUFACTURED BY TAYLOR, OR APPROVED EQUAL.
E. PUMPS - SELF-PRIMING:
1. FURNISH AND INSTALL CIRCULATION PUMPS AS SHOWN AND SCHEDULED ON CONTRACT DOCUMENTS. SEE CONTRACT DOCUMENTS FOR HORSEPOWER, VOLTAGE, FLOW RATE AND SIZE.
2. EACH PUMP SHALL BE FURNISHED WITH AN INTEGRAL HAIR AND LINT STRAINER. CONTRACTOR TO FURNISH EXTRA STRAINER BASKET WITH EACH PUMP.
F. POOL VALVES AND PIPING MATERIALS:
1. PRODUCTS:
a. PROVIDE VALVES OF SAME MANUFACTURER THROUGHOUT WHERE POSSIBLE AND PRACTICAL.
b. PROVIDE VALVES WITH MANUFACTURER'S NAME AND PRESSURE RATING CLEARLY MARKED ON OUTSIDE OF BODY.
2. VALVE CONNECTIONS: PROVIDE VALVES SUITABLE TO CONNECT TO ADJOINING PIPING AS SPECIFIED FOR PIPE JOINT. USE PIPE SIZE VALVES.
3. USE OF VALVES:
a. PIPE SIZES 3" OR LARGER, BUTTERFLY.
b. MISCELLANEOUS VALVES 1/2" - 2", PVC TRUE UNION BALL VALVES.
c. ALL CHEMICAL LINES AND EQUIPMENT - PVC TRUE UNION BALL VALVES.
4. BUTTERFLY VALVES:
a. BUTTERFLY VALVES 3" OR LARGER SHALL BE WAFER OR LUG BODIES AND SHALL BE SUITABLE FOR USE BETWEEN ANSI 125 OR 150 LB. FLANGES.
b. BODIES OF THE FLANGELESS DESIGN SHALL BE PROVIDED WITH AT LEAST FOUR (2) BOLT GUIDES TO CENTER THE VALVE IN THE PIPELINE.
c. ALL BUTTERFLY VALVES SHALL HAVE A CAST IRON BODY EPOXY COATED, DUCTILE IRON NYLON 11 COATED DISC, STAINLESS SHAFT WITH BUNA-N OR EPDM SEAT MINIMUM 150 PSI RATING.
d. ALL BUTTERFLY VALVES 3" OR LARGER SHALL HAVE 10 POSITION LOCKING HANDLE.
e. ALL VALVES SHALL BE AS MANUFACTURED BY BRAY VALVE (713) 894 5454 OR EQUAL AS APPROVED BY THE ARCHITECT/ENGINEER.
5. BALL VALVES:
a. PVC TRUE UNION BALL VALVES, DUAL UNION, ESLON, SPEARS, OR EQUAL.
6. CHECK VALVES - (WHERE REQUIRED); ALL CHECK VALVES TO BE TRUE UNION 2000 INDUSTRIAL BALL CHECK VALVES BY SPEARS MFG. COMPANY OR EQUAL.
G. SPECIAL AGGREGATE POOL INTERIOR FINISH:
1. DIAMOND BRITE
a. QUARTZ AGGREGATES BLENDED WITH POLYMER MODIFIED PORTLAND CEMENT.
2. DELIVER, STORAGE AND HANDLING
a. IF MATERIAL IS STORED, IT MUST BE IN A COOL, DRY AREA, PROTECTED FROM THE ELEMENTS.
3. SUBMITTALS
a. SUBMIT SPECIFICATION FOR DIAMOND BRITE SPECIAL AGGREGATE FINISH 40 DAYS PRIOR TO USE.
b. SUBMIT SAMPLES FOR ARCHITECT'S APPROVAL.
4. PRODUCTS
a. ACCEPTABLE MANUFACTURERS; SOUTHERN GROUT & MORTARS, INC.

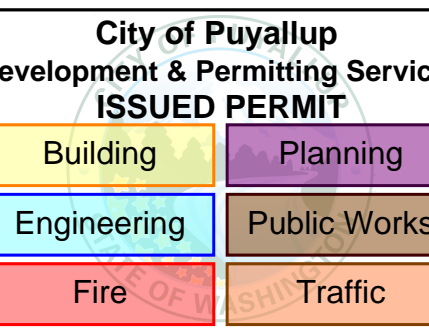
SPECIFICATION

- H. TILE AND TILE SETTING MATERIALS:
1. POOL TILE: FURNISH AND INSTALL TILES AS SHOWN ON THE CONTRACT DOCUMENTS AND AS LISTED IN THIS SECTION. TILE WORK INCLUDED IN THIS CONTRACT SHALL BE LIMITED TO THE FOLLOWING:
a. 6" BAND AT WATER LINE
b. DEPTH MARKERS
c. STAIR AND BENCH ACCENTS
2. ALL WORK IS TO CONFORM TO ANSI/ITCA A137.1
3. SUBMIT TILE SAMPLES FOR ARCHITECTS COLOR SELECTION AND APPROVAL BEFORE ORDERING TILE.
4. EXTRA STOCK: SUPPLY EXTRA 5% OF EACH COLOR OF FLAT AND TRIM IN CLEAN MARKED CARTONS FOR THE OWNERS USE.
5. CERAMIC TILE: TILE TO BE AS MANUFACTURED BY DALTILE OR EQUAL.
a. COLORS TO BE AS SELECTED BY OWNER.
b. FURNISH AND INSTALL ALL TILE REQUIRED FOR DEPTH MARKERS AND "NO DIVING MARKERS" CONFORMING TO THE CONSTRUCTION DRAWINGS AND APPLICABLE CODES.
6. LATEX DRY-SET MORTAR: MAPEI KERALASTIC KERABOND, PRE-SANDED, ANSI 118.1. TWO COMPONENT SETTING SYSTEM CONSISTING OF DRY-SET MORTAR AND LIQUID SYNTHETIC POLYMER ADDITIVE.
7. FLOOR GROUT: MAPEI ULTRA/COLOR SANDED GROUT, POLYMER MODIFIED CEMENTITIOUS GROUT. NO SUBSTITUTIONS PERMITTED.
8. USE A SURFACE BULLNOSE FOR THE STEP TREADS.
9. TILE FOR DEPTH MARKERS TO BE INSTALLED FLUSH WITH POOL DECK/ COPING.
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Client
Goldfish Swim School
H&H Swim School
Puyallup, WA
F.A. #72

Brand Standards
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.

issue / revision date
11-21-22 Building Permit
01-11-23 Owner Revision
02-09-23 City Review Comments
02-09-23 DOH Review Comments
02-09-23 Elect. Review Comments

drawn by checked by

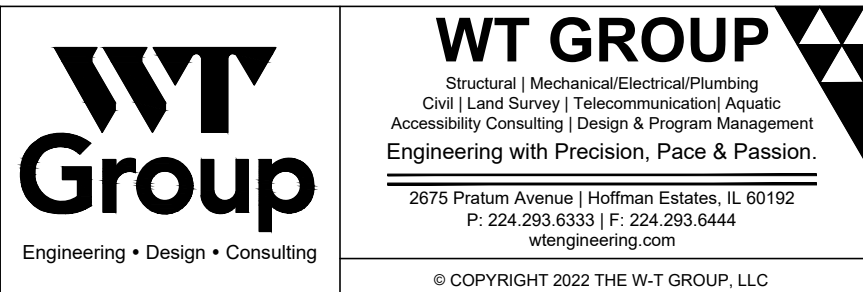
Goldfish Swim School
South Hill Mall - Unit 900-30
3500 South Meridian
Puyallup, WA 98373
specifications

project: sheet title:

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job number sheet number
22006 AQ0.1



**SPECIFICATION**

**1.3 EXECUTION**

**A. PNEUMATICALLY PLACED CONCRETE:**

1. WORKMANSHIP:
  - a. THE FOLLOWING DESCRIBES THE "WET-GUN" METHOD. THE CONTRACTOR MAY AT HIS DISCRETION USE THE "DRY-GUN" METHOD.
  - b. ONLY FOREMAN, NOZZLEMAN AND RODMAN WITH AT LEAST THREE (3) YEARS OF STRUCTURAL EXPERIENCE SHALL BE EMPLOYED AND SATISFACTORY WRITTEN EVIDENCE OF SUCH EXPERIENCE SHALL BE FURNISHED TO THE ARCHITECT OR HIS REPRESENTATIVE UPON DEMAND.
  - c. THE CONTRACTOR MUST HAVE HAD AT LEAST FIVE (5) YEARS EXPERIENCE IN POOL CONSTRUCTION AND MUST LIST AT LEAST TWENTY (20) SIGNIFICANT STRUCTURAL INSTALLATIONS WHICH HE HAS CONSTRUCTED AND WHICH, ON INVESTIGATION, HAVE BEEN FOUND TO BE COMPLETED IN A SATISFACTORY MANNER.
  - d. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTION OF CONCRETE WORK WHICH DOES NOT CONFORM TO THE SPECIFIED REQUIREMENTS, INCLUDING STRENGTH, TOLERANCES AND FINISHES.
2. TOLERANCES:
  - a. THE COMPLETED STRUCTURE SHALL BE CONSTRUCTED LEVEL AND TO THE DIMENSIONS, ELEVATION, DEPTHS AND THICKNESS AS SHOWN ON THE APPROVED PLANS.
  - b. THE ELEVATION (LEVEL) TOLERANCES OF THE POOL SHELL SHALL BE PLUS OR MINUS 1/8 INCH.
  - c. THE HORIZONTAL AND VERTICAL SURFACE TOLERANCE OF THE POOL SHELLS SHALL BE PLUS OR MINUS 1/4 INCH MEASURED WITH A 10 FOOT STRAIGHT EDGE.
  - d. THE LENGTH AND WIDTH TOLERANCE IS PLUS 1/4 INCH.
  - e. THE FLOOR AND WALL THICKNESS TOLERANCE IS PLUS 1/4 INCH.
  - f. THE BOND BEAM "SHELL" ELEVATION, THICKNESS AND DIMENSIONAL TOLERANCE IS PLUS OR MINUS 1/8 INCH DUE TO PREFABRICATED UNITS THAT ARE ATTACHED TO OR ABUTTING THIS SECTION.
  - g. GROUND WIRES OR GRADE PINS IF USED, SHALL BE INSTALLED IN SUCH A MANNER THAT THEY ACCURATELY OUTLINE THE SECTION OF THE LININGS AS INDICATED ON THE PLANS. THEY SHALL BE LOCATED AT INTERVALS SUFFICIENT TO INSURE PROPER THICKNESS THROUGHOUT AND SHALL BE MAINTAINED TIGHT.
3. CURING:
  - a. STRUCTURE SHALL BE DAMP CURED FOR AT LEAST 7 DAYS. IT SHALL BE MANDATORY FOR THE CONTRACTOR TO PERFORM THE CURING OPERATION. NO CONCRETE SHALL BE PLACED DURING FREEZING WEATHER EXCEPT WHEN PROTECTIVE MEASURES ARE TAKEN AS WITH POURED CONCRETE WORK. CONCRETE SHALL NOT BE PLACED AGAINST FROZEN SURFACES.
  - b. STRUCTURE SHALL BE MAINTAINED AT A TEMPERATURE ABOVE 45 DEGREES DURING THE 7 DAY CURING PROCESS PROTECTION.
4. PROTECTION:
  - a. ALL SURFACES NOT TO RECEIVE CONCRETE WILL BE PROTECTED WITH PAPER OR OTHER PROTECTIVE MATERIAL.
  - b. ALL SURROUNDING SURFACES SHALL BE PROTECTED FROM OVER SPRAY, DUST, REBOUND OR SPILLING.
  - c. REBOUND OR SPILLAGE SHALL NOT BE DISPOSED OF SO AS TO INTERFERE WITH INSTALLATION OF PIPING, ANCHORS, DECK DRAIN, CONDUITS, DUCTS, ETC.
5. SHOTCRETE [WET GUN] APPLICATION:
  - a. SHOTCRETE AS HEREIN SPECIFIED IS TO DESIGNATE MIXTURE OF PORTLAND CEMENT, GRADED AGGREGATE AND SAND THAT IS BATCHED, HYDRATED AND MIXED PRIOR TO BEING PLACED THROUGH A CONCRETE "GUN" AND DEPOSITED BY AIR PRESSURE INTO THE STRUCTURE.
  - b. REFERENCE STANDARDS: THE FOLLOWING STANDARDS REFERRED TO IN THIS SPECIFICATION ARE LISTED BELOW WITH THEIR COMPLETE DESIGNATION AND TITLE INCLUDING THE YEAR OF ADOPTION OR REVISION. ASTM STANDARDS [AMERICAN SOCIETY FOR TESTING MATERIALS].
    - A615-84 STANDARD SPECIFICATION FOR DEFORMED AND PLAIN BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT.
    - THE F.M. OF THE SAND SHALL NOT EXCEED 2.75 AND NOT BE LESS THAN 2.55. NO OTHER AGGREGATE SHALL BE ADDED OR SUBSTITUTED.
  - c. CONCRETE SHALL BE DESIGNED, DELIVERED, SHOT IN PLACE AND TESTED IN PLACE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS: ASTM C-94-83, STANDARD SPECIFICATIONS FOR READY MIXED CONCRETE; A51506-77 [REVISED 1983] RECOMMENDED PRACTICE FOR SHOTCRETING.
    - CONTRACTOR SHALL SUBMIT WET-MIX CONCRETE DESIGN TO ARCHITECT FOR APPROVAL PRIOR TO START OF WORK. MIX SHALL BE DESIGNED TO ASSURE PROPER PUMP ABILITY, WORKABILITY AND PROPER SHOTCRETE APPLICATION WITHOUT CONSISTENT PLUG UPS AND BLOCKAGE.

- CONTRACTOR SHALL PROVIDE A CONCRETE SPECIALIST DURING SHOTCRETING. HE SHALL SUPERVISE THE OPERATING OF THE PLUMBING EQUIPMENT, CONCRETE TRUCK DELIVERY AND INSPECT AND MAINTAIN THE QUALITY OF IN-PLACE SHOT-CRETE.
- THE CONTRACTOR SHALL PROVIDE EQUIPMENT CAPABLE OF DELIVERING WET-MIX SHOTCRETE IN A NEAT HOMOGENOUS STATE AT A CONSTANT PRESSURE TO THE POINT OF APPLICATION.
- SHOTCRETE SHALL EMERGE FROM THE NOZZLE IN A STEADY UNINTERRUPTED FLOW. SHOULD THE FLOW BECOME INTERMITTENT FOR ANY CAUSE, NOZZLEMAN SHALL DIRECT IT AWAY FROM THE WORK UNTIL IT AGAIN BECOMES CONSTANT. THE DISTANCE OF THE NOZZLE FROM THE WORK SHALL BE BETWEEN A FOOT AND A HALF TO THREE FEET TO GIVE BEST RESULTS FOR WORK REQUIREMENTS. THE NOZZLE SHOULD BE HELD PERPENDICULAR TO THE RECEIVING SURFACE, BUT NEVER MORE THAN 45 DEGREES FROM THE SURFACE, AND ROTATED STEADILY IN A SERIES OF SMALL, OVAL OR CIRCULAR PATTERNS. ALL STEEL SHALL BE ENCASED IN SHOTCRETE SO THAT PROPER BONDING IS ACHIEVED.
- BEFORE COMMENCING NEW CONCRETE PLACEMENT, THE SURFACE AND EDGES OF ANY PREVIOUSLY PLACED CONCRETE SCHEDULED TO RECEIVE NEW CONCRETE SHALL BE THOROUGHLY WIRE-BRUSHED AND CLEANED. ALL SURFACES SHALL BE FINISHED TO ACCEPT CERAMIC TILE AND/OR PLASTER.

**B. PIPING AND PIPE FITTINGS**

1. WORK INCLUDED: PIPE, FITTINGS, CONNECTIONS, WALL PENETRATIONS, HANGERS AND SUPPORTS, EQUIPMENT BASES AND SUPPORTS, EXCAVATION AND BACKFILL.
2. USE THE PRESCRIBED PIPE TYPE IN THE FOLLOWING AREAS. ALL PLASTIC PIPE FLANGES SHALL BE SCHEDULED 80 PVC WITH NEOPRENE GASKETS WHERE REQUIRED.
  - a. ALL BURIED FILTER RETURN LINES, SKIMMER LINES, MAIN DRAIN LINES, FILL AND REFLECTION LINES PVC SCHEDULE 80, SOLVENT WELD.
  - b. ALL ABOVE GRADE PIPING INSIDE THE PUMP MECHANICAL ROOM, SCHEDULE 80 PVC, SOLVENT WELD.
  - c. ALL CHEMICAL PIPING PER THE MANUFACTURER.
  - d. HEATER CONNECTIONS SHALL BE CPVC PIPING ON THE HEATER INFLUENT AND EFFLUENT LINES FROM THE BYPASS TO THE HEATER.
3. HANGERS AND SUPPORTS:
  - a. ALL MECHANICAL ROOM PIPING MUST BE PROPERLY SUPPORTED PER THE PIPING MANUFACTURER'S ENGINEERING MANUAL.
  - b. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY SUPPORT PIPING AT ALL VALVES, PUMPS, EQUIPMENT, OVERHEAD AREAS, ETC.
  - c. USE OF THE PROPER HANGER FOR THE CONDITIONS IS ESSENTIAL. ALL PIPING MUST BE SUPPORTED Laterally AS WELL AS VERTICALLY HUNG.
  - d. ALL PIPING CONNECTIONS AND SUPPORT HARDWARE SHALL BE STAINLESS STEEL INSIDE SURGE TANKS.
4. POOL PIPE EXCAVATION AND BACKFILL:
  - a. EXCAVATION FOR ALL SWIMMING POOL SYSTEM RELATED PIPING.
  - b. COMPLY WITH SECTION 02225.
5. SPECIAL BACKFILL AND BEDDING MATERIALS:
  - a. EXISTING SUBSOIL MATERIALS SHALL NOT BE USED FOR PIPE BEDDING.
  - b. ALL PIPING SHALL BE BEDDED WITH A MINIMUM OF 6" CLEAN STONE MATERIAL AND A MINIMUM OF 2'-0" CLEAN STONE MATERIAL TOP COVER. THE BALANCE MAY BE EXISTING SITE MATERIAL, PROVIDED NO ORGANIC MATERIAL, CLAY OR TOPSOIL IS USED.
  - c. PIPING SHALL BE COVERED WITH 8" LIFTS OF GRANULAR FILL AND COMPACTED ACCORDING TO SPECIFICATIONS.
6. PIPING:
  - a. CUT ALL PIPE WITH MECHANICAL CUTTER WITHOUT DAMAGE TO PIPE.
  - b. PLACING AND LAYING: INSPECT PIPE FOR DEFECTS BEFORE INSTALLATION. CLEAN THE INTERIOR OF PIPE THOROUGHLY OF FOREIGN MATTER AND KEEP CLEAN DURING LAYING OPERATION. PIPE SHALL NOT BE LAID IN WATER OR WHEN TRENCH CONDITIONS ARE UNSTABLE. WATER SHALL BE KEPT OUT OF THE TRENCH UNTIL THE PIPE IS INSTALLED. WHEN WORK IS NOT IN PROGRESS, OPEN ENDS OF PIPE AND FITTINGS SHALL BE SECURELY CLOSED SO THAT NO TRENCH WATER, EARTH OR OTHER SUBSTANCE WILL ENTER THE PIPES OR FITTINGS.

**SPECIFICATION**

- c. THREADED JOINTS: AFTER CUTTING AND BEFORE THREADING, THE PIPE SHALL BE REAMED AND SHALL HAVE BURRS REMOVED. SCREW JOINTS SHALL BE MADE WITH GRAPHITE OR INERT FILLER AND OIL OR WITH AN APPROVED GRAPHITE COMPOUND APPLIED TO MAKE THREADS ONLY. THREADS SHALL BE FULL-CUT AND NOT MORE THAN 3 THREADS ON THE PIPE REMAINED EXPOSED. USE TEFLON II TAPE ON THE MAKE THREADS OF ALL THREADED PIPE JOINTS. CAULKING OF THREADED JOINTS TO STOP OR PREVENT LEAKS WILL NOT BE PERMITTED. UNIONS SHALL BE PROVIDED WHERE REQUIRED FOR DISCONNECTION OF EXPOSED PIPING. UNIONS WILL BE PERMITTED WHERE ACCESS IS PROVIDED.
- d. SOLVENT WELDED JOINTS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THE FOLLOWING MINIMUM STANDARDS:
  - ALL FITTINGS SHALL FIT EASILY ON THE PIPE BEFORE APPLYING CEMENT. THE OUTER SURFACE AREA OF PIPE AND INNER WALL OF FITTING SHALL BE DRY AND CLEAN. CEMENT IS TO BE APPLIED TO THE OUTER SURFACE OF THE PIPE AND TO THE INNER SURFACE OF THE FITTING. CEMENT IS TO BE APPLIED TO THE OUTER SURFACE OF THE PIPE, OR ON THE MALE SECTION OF FITTINGS ONLY WHEN THE OUTSIDE SURFACE AREA OF THE PIPE IS SATISFACTORILY COVERED WITH CEMENT ALLOW TEN (10) SECONDS OPEN TIME TO LAPSE BEFORE INSERTING PIPE END INTO FITTINGS. AFTER FULL INSERTION OF PIPE INTO FITTING, TURN FITTING AROUND THE PIPE END APPROXIMATELY 1/8 TO 1/4 OF A TURN. WIPE OFF EXCESS CEMENT AT THE JOINT IN A NEAT COVE BEAD. FOLLOW MANUFACTURER'S INSTRUCTIONS ON SOLVENTS.
  - ALL JOINTS SHALL REMAIN COMPLETELY UNDISTURBED FOR A MINIMUM OF 10 MINUTES FROM TIME OF JOINTING THE PIPE AND FITTING. IF NECESSARY TO APPLY PRESSURE TO A NEWLY MADE JOINT, LIMIT TO 10% OF RATED PIPE PRESSURE, DURING THE FIRST 24 HOURS AFTER THE JOINT HAS BEEN MADE.
  - FULL WORKING PRESSURE SHALL NOT BE APPLIED UNTIL THE JOINTS HAVE SET FOR A PERIOD OF 24 HOURS.
- e. MAKE PROVISIONS FOR EXPANSION AND CONTRACTION BY WAY OF SWING JOINTS OR SNAKING.
7. PROTECT PLASTIC PIPE FROM EXPOSURE TO AROMATIC HYDROCARBONS, HALOGENATED HYDRO-CARBONS, AND MOST OF THE ESTERS AND KETONES THAT ATTACK THE MATERIAL. PROTECT ALL PIPE FROM MECHANICAL DAMAGE AND LONG EXPOSURE TO SUNLIGHT DURING STORAGE.
8. NO INSTALLATION SHALL BE MADE THAT WILL PROVIDE A CROSS CONNECTION OR INTERCONNECTION BETWEEN DISTRIBUTION SUPPLY FOR DRINKING PURPOSES AND THE SWIMMING POOL THAT WILL PERMIT A BACKFLOW OF WATER INTO THE POTABLE WATER SUPPLY. PIPE OPENINGS SHALL BE CLOSED WITH CAPS OR PLUGS DURING INSTALLATION. EQUIPMENT AND POOL FITTINGS SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT, WATER AND CHEMICAL OR MECHANICAL INJURY. AT THE COMPLETION OF WORK THE FITTINGS, MATERIALS AND EQUIPMENT SHALL BE THOROUGHLY CLEAN AND ADJUSTED FOR PROPER OPERATION.
9. PIPE IDENTIFICATION
  - a. PROVIDE IDENTIFICATION ON ALL PIPING LOCATED IN MECHANICAL EQUIPMENT, CHLORINE, ACID ROOMS, HEATER COURTS, ETC.
  - b. IDENTIFY THE POOL THAT THE LINE IS SERVING (WITH MULTIPLE POOLS ONLY), CONTENTS, DIRECTION OF FLOW.
  - c. MARK AT LEAST ONCE ON EACH LINE AND AT 20 FT. INTERVALS WITH PIPE IDENTIFY CONSULT HEALTH DEPARTMENT CODE FORM MINIMUM MARKING REQUIREMENTS.
  - d. COLOR CODE PER HEALTH DEPARTMENT REQUIREMENTS. IF CODE DOES NOT IDENTIFY COLOR CODING REQUIREMENTS CONSULT ARCHITECT/ENGINEER.
  - e. BRADY, B-946, CUSTOM LEGEND, SELF STICKING MARKERS AND ARROWS OR EQUAL.

**C. EQUIPMENT BASES AND SUPPORTS**

1. PROVIDE FOR ALL RECIRCULATION PUMP AND MOTORS. ANCHORAGE SYSTEM SHALL BE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S SPECIFICATIONS. CONSULT WITH EQUIPMENT MANUFACTURER FOR LENGTH AND INSTALLATION OF ANCHOR BOLTS.

**D. DECK CLEANING AND SAFETY EQUIPMENT**

1. INCORPORATE POOL STEPS, LADDERS, AND/OR RECESSED STAIR WELLS INTO THE POOL AS SHOWN ON THE CONTRACT DOCUMENTS.
2. INSTALL ALL DECK, CLEANING, AND SAFETY EQUIPMENT IN COMPLIANCE WITH MANUFACTURERS RECOMMENDATIONS; AS REQUIRED BY ILLINOIS DEPARTMENT OF PUBLIC HEALTH, AND ANY OTHER AUTHORITIES WITH JURISDICTION, AND AS APPROVED BY ARCHITECT/ENGINEER.

**E. TESTING - FIELD QUALITY CONTROL**

1. THIS SECTION REQUIRES THE FOLLOWING TESTS TO BE PERFORMED BY THE CONTRACTOR. REFER TO SECTION 01400 FOR FURTHER REQUIREMENTS.

2. CONCRETE: TESTS TO MEASURE SLUMP, ENTRAINED AIR CONTENT AND COMPRESSIVE STRENGTH SHALL BE CONDUCTED BY INDEPENDENT TESTING LABORATORY OF THE CONTRACTOR.
  - a. COMPRESSIVE STRENGTH TESTS: PROVIDE MINIMUM OF 4 TEST CYLINDERS PER 50 CUBIC YARD OR FRACTION THEREOF FOR EACH CLASS OF CONCRETE POURED EACH DAY. COMPLY WITH ACI-318, SUB-SECTION 4.3 (SAMPLES SECURED - ASTM C172, CYLINDERS PREPARED AND CURED - ASTM C31, AND TESTED - ASTM C39). IDENTIFY SAMPLES. MOIST CURE AT 70 DEGREES F FOR FIVE DAYS AND SHIP SAMPLES TO THE LABORATORY.
  - b. SLUMP AND AIR CONTROL TESTS: PERFORM THESE TESTS ON CONCRETE FROM THE SAME BATCH AS SAMPLED FOR STRENGTH TESTS AND WHENEVER THERE IS INCONSISTENCY OF CONCRETE. SLUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C143. AIR CONTENT TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM C231. IF MEASURED SLUMP OR AIR CONTENT FALLS OUTSIDE SPECIFIED LIMITS, CHECK SHALL BE MADE IMMEDIATELY ON ANOTHER PORTION OF SAME SAMPLE. IN EVENT OF A SECOND FAILURE, CONCRETE SHALL NOT BE USED.
  - c. COMPLIANCE:
    - AVERAGE OF ANY THREE CONSECUTIVE STRENGTH TESTS FOR EACH CLASS OF CONCRETE, SHALL BE EQUAL TO OR GREATER THAN SPECIFIED STRENGTH, AND NO INDIVIDUAL TEST SHALL FALL MORE THAN 500 PSI BELOW SPECIFIED STRENGTH.
    - WHEN TESTS RESULTS ARE BELOW SPECIFIED REQUIREMENTS OR WHEN TESTS OF FIELD CURED CYLINDERS INDICATE DEFICIENCIES IN PROTECTION AND CURING, ARCHITECT/ENGINEER MAY REQUIRE ADDITIONAL TESTS IN ACCORDANCE WITH ACT-318, SUBSECTION 4.3.
3. TESTING AND FLUSHING OF PIPING:
  - a. CONTRACTOR SHALL BE RESPONSIBLE FOR DISCOVERING LEAKS AND MAKING NECESSARY REPAIRS.
  - b. AFTER THE PIECE IS LAID, THE JOINTS COMPLETED, AND THE TRENCH PARTIALLY BACKFILLED, LEAVING JOINTS EXPOSED FOR EXAMINATION, TEST ALL POOL PIPING PER THE ILLINOIS PLUMBING CODE, SECTION 890.1930, TEST METHODS. PROVIDE TEST RESULTS TO THE ARCHITECT/ENGINEER BEFORE BACKFILLING PIPES OR COVERING PIPES WITH CONCRETE.
  - c. LEAKS SHALL BE REPAIRED AND TESTED REPEATEDLY UNTIL LEAKAGE OR INFILTRATION IS APPROVED.
4. WATER TREATMENT:
  - a. OBTAIN A CHEMICAL ANALYSIS OF THE SOURCE/POOL MAKE-UP WATER SUPPLY AND SUBMIT TO ARCHITECT/ENGINEER. INCLUDE THE FOLLOWING:
    - TOTAL ALKALINITY / PPM
    - CALCIUM HARDNESS / PPM
    - CHLORINE / PPM
    - pH
    - IRON
    - COPPER
  - b. TREAT AND BALANCE POOL WATER PRIOR TO TURNOVER OF POOL TO THE OWNER (USING CHEMICALS PROVIDED BY THE OWNER).
  - c. POOL WATER: BALANCE TO ESTABLISH A TOTAL ALKALINITY LEVEL OF 60-125 PPM AND CALCIUM HARDNESS LEVEL OF 180-375 PPM (3 TIMES ALKALINITY LEVEL).
  - d. STABILIZE POOL WATER BY SHOCKING TO 20 PPM OF CHLORINE FOR INITIAL SANITATION.
  - e. CONSULT WITH ARCHITECT/ENGINEER FOR SPECIAL WATERS TO ESTABLISH BALANCED LEVELS.

**A. INSTRUCTION OF OWNER'S PERSONNEL:**

1. THE POOL SUB-CONTRACTOR SHALL SUPPLY THE SERVICES OF AN EXPERIENCED SWIMMING POOL OPERATOR INSTRUCTOR FOR A PERIOD OF NOT LESS THAN FIVE DAYS (3 DAYS OPERATIONS, 1 DAY START-UP, 1 DAY WINTERIZING) AFTER THE POOL HAS BEEN FILLED AND INITIALLY PLACED IN OPERATION. DURING THIS PERIOD THE OWNER'S DESIGNATED REPRESENTATIVES SHALL BE THOROUGHLY INSTRUCTED IN ALL PHASES OF THE POOL'S OPERATION.
2. PRIOR TO THIS INSTRUCTOR LEAVING THE JOB, HE SHALL OBTAIN WRITTEN CERTIFICATION FROM THE OWNER'S DESIGNATED REPRESENTATIVE ACKNOWLEDGING THAT THE INSTRUCTION PERIOD HAS BEEN COMPLETED AND ALL NECESSARY OPERATING INFORMATION PROVIDED.
3. POOL SUB-CONTRACTOR SHALL DELIVER ONE SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR THE SWIMMING POOL STRUCTURES, FINISHES AND ALL COMPONENT EQUIPMENT TO THE OWNER, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
  - a. BOUND TOGETHER IN A COMPLETE MANUAL.
  - b. ACCURATE PARTS LIST.
  - c. POOL START-UP INSTRUCTIONS.
  - d. NARRATIVE ON THE POOL OPERATION THROUGH ALL SEQUENCES.
  - e. ALL VALVES MUST BE PERMANENTLY TAGGED ALONG WITH VALVE LEGEND AND EXPLANATION.
  - f. TROUBLE SHOOTING INFORMATION.
  - g. ALL PIPING IN MECHANICAL ROOM TO BE LABELED WITH DESCRIPTION OF LINE AND ARROWS INDICATING DIRECTION OF FLOW.

**SPECIFICATION**

- h. PROVIDE LAMINATED PUMP CURVE DISPLAYED IN THE MECHANICAL ROOM.

**G. PROVIDE A VIDEO OF COMPLETE START-UP, SHUT DOWN AND BACKWASH OPERATIONS.**

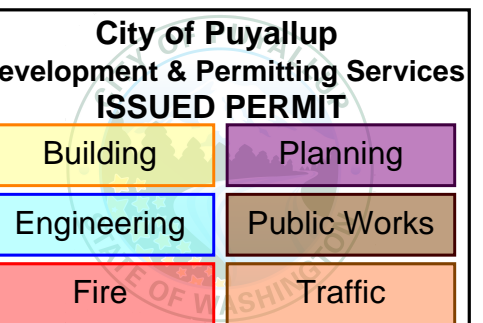
**H. CLEAN UP AND PROTECTION:**

1. AFTER WORK OF THIS SECTION HAS BEEN COMPLETE, CLEAN UP WORK AREAS AND REMOVE ALL EQUIPMENT EXCESS MATERIALS AND DEBRIS. PROTECT POOL FROM DAMAGE UNTIL TIME OF FINAL ACCEPTANCE. REMOVE AND REPLACE FINISHES THAT ARE CHIPPED, CRACKED, ABRASDED, IMPROPERLY ADHERED, OR OTHERWISE DAMAGED.

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Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be followed – No deviation permitted without prior written Goldfish Franchise approval.

issue / revision date  
11-21-22 Building Permit  
01-11-23 Owner Revision  
02-09-23 City Review Comments  
02-09-23 DOH Review Comments  
02-09-23 Elect. Review Comments

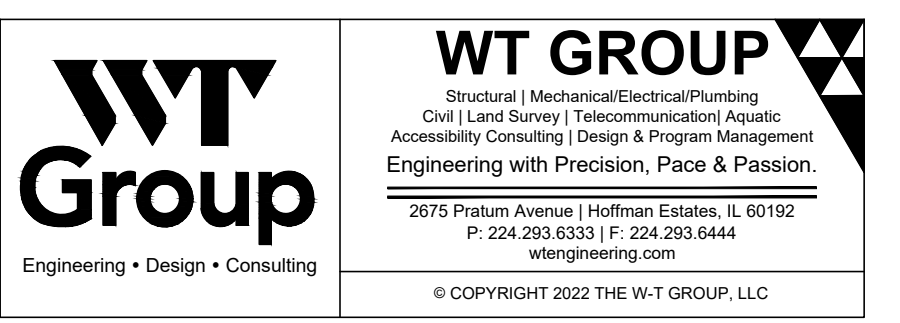
drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall – Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

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SWIMMING POOL EQUIPMENT LIST

<p>1. FILTER</p> <ul style="list-style-type: none"> <li>MANUFACTURER: PENTAIR</li> <li>MODEL#: TR-140C</li> <li>FILTER SURFACE AREA: 7.06 SQ.FT.</li> <li>FILTRATION RATE PER SQ.FT.: 10.53 G.P.M.</li> <li>GLASS FILTER MEDIA</li> <li>PRESSURE GAUGE</li> <li>MANUAL AIR RELIEF VALVE</li> <li>MULTI-PORT VALVE MODEL# 261055</li> <li>FILTER LATERAL EXTENSION 159034</li> <li>FILTER LATERAL HAVE 4-6 WEEK ORDERING LEAD TIME, PURCHASE ON DAY 1 OF CONSTRUCTION</li> </ul> <p>QTY. 3</p>	<p>15. ACID FEEDER</p> <ul style="list-style-type: none"> <li>MANUFACTURER: AXIALL</li> <li>MODEL#: ACID-RITE 450</li> <li>14.5 LBS/HR CAPACITY</li> <li>1 H.P. HIGH PRESSURE CIRCULATION PUMP</li> <li>110 VOLT, 1-PHASE</li> <li>SODIUM BISULFATE</li> </ul> <p>QTY. 1</p>
<p>2. FILTRATION PUMP</p> <ul style="list-style-type: none"> <li>MANUFACTURER: PENTAIR</li> <li>MODEL#: EQKT-750</li> <li>SELF-PRIMING</li> <li>FILTRATION FLOW RATE: 223 G.P.M.</li> <li>TOTAL DYNAMIC HEAD: 78'</li> <li>7.5 HORSEPOWER</li> <li>480 VOLT, 3-PHASE</li> <li>PROVIDE EXTRA STRAINER BASKET</li> <li>FILTRATION PUMP HAS 6-8 WEEK ORDERING LEAD TIME, PURCHASE ON DAY 1 OF CONSTRUCTION</li> </ul> <p>QTY. 1</p>	<p>16. WATER LEVEL CONTROLLER</p> <ul style="list-style-type: none"> <li>MANUFACTURER: LEVELOR</li> <li>MODEL#: LEV110CK/2G</li> <li>110 VOLT, 1-PHASE</li> <li>1" SOLENOID VALVE</li> <li>REFLECTION SENSORS W/ 200' WIRE</li> </ul> <p>QTY. 1</p>
<p>3. LOCHINVAR HEATING SYSTEM</p> <ul style="list-style-type: none"> <li>SEE MECHANICAL DRAWINGS FOR LOCHINVAR SLED MAKE AND MODEL</li> <li>PROVIDE FLOW METERS ON INFLUENT AND EFFLUENT PIPING, MODEL F-1000 RV200KI-GPM2</li> </ul> <p>QTY. 1</p>	<p>17. REFLECTION AND FILL PIPE FITTING</p> <ul style="list-style-type: none"> <li>MANUFACTURER: HAYWARD</li> <li>MODEL#: SP-1022</li> <li>2" CONNECTION</li> <li>GRATE MODEL#: SP-1026</li> </ul> <p>QTY. 2</p>
<p>4. AQUASTAT</p> <ul style="list-style-type: none"> <li>MANUFACTURER: HONEYWELL</li> <li>MODEL#: L4006A195</li> <li>104 DEGREES FAHRENHEIT MAXIMUM</li> </ul> <p>QTY. 1</p>	<p>18. MAIN DRAIN SUCTION OUTLET</p> <ul style="list-style-type: none"> <li>MANUFACTURER: LAWSON AQUATICS</li> <li>MODEL#: MLD-SG-1818-WT</li> <li>FRAME AND GRATE SIZE: 18" X 18"</li> <li>OPEN AREA: 183.06 SQ.IN.</li> <li>MAXIMUM FLOW RATE: 816 G.P.M.</li> </ul> <p>QTY. 2</p>
<p>5. FLOW SENSOR</p> <ul style="list-style-type: none"> <li>MANUFACTURER: GF SIGNET</li> <li>MODEL#: 3-2551-P0-22</li> <li>CONNECT TO VARIABLE FREQUENCY DRIVE</li> <li>4" PIPE SIZE</li> <li>4 TO 20 mA OUTPUT</li> <li>PROVIDE SADDLE CLAMP - MODEL #PV8SO40</li> </ul> <p>QTY. 1</p>	<p>19. HYDROSTATIC RELIEF VALVE</p> <ul style="list-style-type: none"> <li>MANUFACTURER: HAYWARD</li> <li>MODEL#: SP-1056</li> <li>2" CONNECTION</li> </ul> <p>QTY. 2</p>
<p>6. THERMOMETER</p> <ul style="list-style-type: none"> <li>MANUFACTURER: LETRO</li> <li>MODEL#: SL-1</li> <li>30 DEGREE TO 130 DEGREE RANGE</li> <li>1 DEGREE GRADATION</li> </ul> <p>QTY. 2</p>	<p>20. HYDROSTATIC COLLECTION TUBE</p> <ul style="list-style-type: none"> <li>MANUFACTURER: HAYWARD</li> <li>MODEL#: SP-1055</li> <li>2" CONNECTION</li> </ul> <p>QTY. 2</p>
<p>7. VACUUM GAUGE</p> <ul style="list-style-type: none"> <li>MANUFACTURER: WIKA</li> <li>MODEL#: 9699045</li> <li>LIQUID FILLED STAINLESS STEEL</li> <li>4" DIAL</li> <li>0"-30" Hg</li> </ul> <p>QTY. 1</p>	<p>21. SURFACE SKIMMER</p> <ul style="list-style-type: none"> <li>MANUFACTURER: HAYWARD</li> <li>MODEL#: SP-1082FVE</li> <li>EQUALIZER KIT</li> <li>2" CONNECTIONS</li> </ul> <p>QTY. 6</p>
<p>8. PRESSURE GAUGE</p> <ul style="list-style-type: none"> <li>MANUFACTURER: WIKA</li> <li>MODEL#: 9699117</li> <li>LIQUID FILLED STAINLESS STEEL</li> <li>4" DIAL</li> <li>0-60 P.S.I. RANGE</li> </ul> <p>QTY. 7</p>	<p>22. WALL INLET FITTINGS</p> <ul style="list-style-type: none"> <li>MANUFACTURER: HAYWARD</li> <li>MODEL#: SP-1022S</li> <li>1 1/2" CONNECTION</li> <li>DIRECTIONAL EYEBALL FITTING</li> <li>3/4" ORIFICE #SP-1419-D</li> </ul> <p>QTY. 18</p>
<p>9. VARIABLE FREQUENCY DRIVE</p> <ul style="list-style-type: none"> <li>MANUFACTURER: H2FLOW CONTROLS</li> <li>MODEL#: EF-C-13-12-4</li> <li>NEMA 12 ENCLOSURE</li> <li>INCLUDE BYPASS PANEL</li> <li>DIGITAL READ-OUT FOR FLOW RATE</li> <li>INPUT DISCONNECT AND LINE REACTOR</li> <li>VOLTAGE AND HORSEPOWER TO MATCH ASSOCIATED PUMP MOTOR</li> <li>FLOW RATE SETTINGS OF 223 GPM FOR OCCUPIED USE AND 156 GPM FOR UNOCCUPIED USE</li> <li>FLOW CONTACT: DAVE ATKINS</li> <li>DAVE.ATKINS@H2FLOW.NET (419.309.7218)</li> </ul> <p>QTY. 1</p>	<p>23. CUSTOM HAND RAIL</p> <ul style="list-style-type: none"> <li>MANUFACTURER: S.R. SMITH</li> <li>MODEL#: CUSTOM</li> <li>316L STAINLESS STEEL</li> <li>1.90" O.D. TUBING</li> <li>0.109" WALL THICKNESS</li> </ul> <p>QTY. 1</p>
<p>10. FLOW METER</p> <ul style="list-style-type: none"> <li>MANUFACTURER: BLUE-WHITE</li> <li>MODEL#: D-30200P</li> <li>2" PIPE SIZE</li> <li>20 G.P.M. TO 100 G.P.M. RANGE</li> </ul> <p>QTY. 1</p>	<p>24. GRAB RAILS</p> <ul style="list-style-type: none"> <li>MANUFACTURER: SPECTRUM AQUATICS</li> <li>MODEL#: 35117</li> <li>STAINLESS STEEL</li> <li>0.109" WALL THICKNESS</li> </ul> <p>QTY. 2 PR.</p>
<p>11. TOTAL DISSOLVED SOLIDS CONTROLLER</p> <ul style="list-style-type: none"> <li>MANUFACTURER: CHLORKING</li> <li>MODEL#: 5000 TDS</li> <li>120 VOLT, 1-PHASE</li> <li>SUPPLIED AND INSTALLED BY CHLORKING</li> </ul> <p>QTY. 1</p>	<p>25. RECESSED STEPS</p> <ul style="list-style-type: none"> <li>MANUFACTURER: PARAGON AQUATICS</li> <li>MODEL#: 32102</li> <li>PLASTIC</li> </ul> <p>QTY. 6</p>
<p>12. AUTOMATIC CHEMICAL CONTROLLER</p> <ul style="list-style-type: none"> <li>MANUFACTURER: BECS TECH.</li> <li>MODEL#: BECSYS3</li> <li>FLOW CELL</li> <li>HEAT SENSOR</li> <li>CONDUCTIVITY/TDS FLOWRATE MONITORING</li> <li>ETHERNET/INTERNET COMMUNICATIONS</li> <li>WIRELESS CAPABILITIES</li> <li>115 VOLT, 1-PHASE</li> <li>PROVIDE NETWORK CAT-5 PREP</li> <li>POOL CONTRACTOR SHALL COORDINATE INSTALLATION AND ENSURE REMOTE ACCESS IS FUNCTIONING PRIOR TO COMPLETION OF WORK</li> </ul> <p>QTY. 1</p>	<p>26. ESCUTCHEON PLATE</p> <ul style="list-style-type: none"> <li>MANUFACTURER: PARAGON AQUATICS</li> <li>MODEL#: 28302</li> <li>STAINLESS STEEL</li> </ul> <p>QTY. 10</p>
<p>13. CHLORINE GENERATION SYSTEM</p> <ul style="list-style-type: none"> <li>MANUFACTURER: CHLORKING</li> <li>MODEL#: NEX-GEN20</li> <li>20 LBS./DAY CAPACITY</li> <li>1 H.P. CIRCULATION PUMP AND MOTOR</li> <li>208-240 VOLT, 1-PHASE</li> <li>SODIUM HYPOCHLORITE</li> <li>PURCHASED BY OWNER; INSTALLED BY OTHERS</li> <li>PROVIDE NETWORK CAT-5 PREP</li> </ul> <p>QTY. 1</p>	<p>27. RECESSED WEDGE ANCHOR</p> <ul style="list-style-type: none"> <li>MANUFACTURER: PARAGON AQUATICS</li> <li>MODEL#: 28102</li> <li>BRONZE</li> </ul> <p>QTY. 10</p>
<p>14. NOT USED</p>	<p>28. HANDICAP LIFT</p> <ul style="list-style-type: none"> <li>MANUFACTURER: LIFEGUARD</li> <li>MODEL#: 100287</li> <li>ADA COMPLIANT</li> <li>BATTERY OPERATED</li> <li>RECESSED DECK ANCHOR</li> </ul> <p>QTY. 1</p>
<p>30. DECHLORINATION UNIT</p> <ul style="list-style-type: none"> <li>MANUFACTURER: NORWECO</li> <li>MODEL#: LF-4600</li> <li>SODIUM SULFITE BIO-MAX TABLET EROSION FEED</li> </ul> <p>QTY. 1</p>	<p>29. CUP ANCHORS</p> <ul style="list-style-type: none"> <li>MANUFACTURER: HAYWARD</li> <li>MODEL#: SP-1040</li> <li>PLASTIC</li> </ul> <p>QTY. 28</p>
<p>31. EQUIPMENT LABEL PACKAGE</p> <ul style="list-style-type: none"> <li>CONTACT STICKER GENIUS FOR EQUIPMENT LABEL PACKAGE</li> <li>1(855)-784-2553</li> <li>ALL EQUIPMENT SHALL BE LABELED USING PACKAGE PROVIDED</li> <li>FOR ANY ADDITIONAL QUESTIONS, REACH OUT TO THOMAS BOHLAND - TOM@GOLDFISHFRANCHISE.COM</li> </ul> <p>QTY. 1</p>	<p>30. DECHLORINATION UNIT</p> <ul style="list-style-type: none"> <li>MANUFACTURER: NORWECO</li> <li>MODEL#: LF-4600</li> <li>SODIUM SULFITE BIO-MAX TABLET EROSION FEED</li> </ul> <p>QTY. 1</p>

SAFETY AND MAINTENANCE EQUIPMENT

MAINTENANCE EQUIPMENT	SAFETY EQUIPMENT
<p>TEST KIT</p> <ul style="list-style-type: none"> <li>MANUFACTURER: TAYLOR</li> <li>MODEL#: K-2005</li> </ul> <p>QTY. 1</p>	<p>FIRST AID KIT</p> <ul style="list-style-type: none"> <li>MANUFACTURER: SWIFT FIRST AID</li> <li>MODEL#: 35-P24UF</li> </ul> <p>QTY. 1</p>
<p>TELESCOPIC POLE</p> <ul style="list-style-type: none"> <li>MANUFACTURER: PENTAIR</li> <li>MODEL#: R191090</li> <li>8'-0" EXTENDING ALUMINUM</li> </ul> <p>QTY. 1</p>	<p>RING BUOY</p> <ul style="list-style-type: none"> <li>MANUFACTURER: LINCOLN EQUIPMENT</li> <li>MODEL#: 44-075</li> <li>24" DIAMETER</li> <li>30"-0" OF 3/4" DIAMETER NYLON ROPE</li> </ul> <p>QTY. 2</p>
<p>LEAK RAKE</p> <ul style="list-style-type: none"> <li>MANUFACTURER: PENTAIR</li> <li>MODEL#: R11230</li> </ul> <p>QTY. 1</p>	<p>LIFE HOOK</p> <ul style="list-style-type: none"> <li>MANUFACTURER: PENTAIR</li> <li>MODEL#: R221026</li> <li>INCLUDE 12" ONE-PIECE ALUMINUM POLE</li> </ul> <p>QTY. 2</p>
<p>WALL BRUSH</p> <ul style="list-style-type: none"> <li>MANUFACTURER: PENTAIR</li> <li>MODEL#: R111646</li> </ul> <p>QTY. 1</p>	<p>ADULT SPINE BOARD PACKAGE</p> <ul style="list-style-type: none"> <li>MANUFACTURER: LINCOLN EQ.</li> <li>MODEL#: 29-120</li> </ul> <p>QTY. 1</p>
<p>VACUUM HEAD</p> <ul style="list-style-type: none"> <li>MANUFACTURER: PENTAIR</li> <li>MODEL#: R201286</li> </ul> <p>QTY. 1</p>	<p>VACUUM HOSE</p> <ul style="list-style-type: none"> <li>MANUFACTURER: LINCOLN EQ.</li> <li>MODEL#: 29-120</li> <li>50'-0" LENGTH</li> </ul> <p>QTY. 1</p>
<p>VACUUM HOSE</p> <ul style="list-style-type: none"> <li>MANUFACTURER: LINCOLN EQ.</li> <li>MODEL#: 29-120</li> <li>50'-0" LENGTH</li> </ul> <p>QTY. 1</p>	<p>LAP LANE MARKER LINE</p> <ul style="list-style-type: none"> <li>QUANTITY AS NEEDED</li> <li>PURCHASED BY OWNER, INSTALLED BY OTHERS</li> </ul>

ELECTRICAL REQUIREMENTS

<p>FILTRATION PUMP</p> <ul style="list-style-type: none"> <li>PROVIDE CONDUIT AND HARD WIRE TO VARIABLE FREQUENCY DRIVE &amp; BYPASS PANEL</li> <li>7.5 HORSEPOWER</li> <li>480 VOLT, 3-PHASE</li> <li>DISCONNECT WITH EPO ON POOL DECK</li> </ul> <p>QTY. 1</p>	<p>HEATER</p> <ul style="list-style-type: none"> <li>SEE MECHANICAL PLANS FOR POOL WATER HEATER SPECIFICATIONS. 2 1/2" INFLUENT AND 2 1/2" EFFLUENT PIPING TO POOL RECIRCULATION FILTERED RETURN PIPING.</li> </ul> <p>QTY. 1</p>
<p>VARIABLE FREQUENCY DRIVE</p> <ul style="list-style-type: none"> <li>HARD WIRE TO PUMP MOTOR</li> <li>VOLTAGE AND HORSEPOWER TO MATCH ASSOCIATED PUMP MOTOR</li> </ul> <p>QTY. 1</p>	<p>FRESH WATER</p> <ul style="list-style-type: none"> <li>PROVIDE 1" FRESH WATER SUPPLY PIPE TO FILL PIPE LOCATION</li> </ul> <p>QTY. 1</p>
<p>AQUASTAT</p> <ul style="list-style-type: none"> <li>PROVIDE LOW-VOLTAGE WIRING TO HEATER</li> </ul> <p>QTY. 1</p>	<p>FILTER BACKWASH</p> <ul style="list-style-type: none"> <li>THE (3) FILTERS WILL BACKWASH INDIVIDUALLY AT A RATE OF 106 G.P.M. FOR APPROXIMATELY 3 TO 5 MINUTES TO SANITARY</li> </ul> <p>QTY. 3</p>
<p>TDS CONTROLLER</p> <ul style="list-style-type: none"> <li>10 AMPS</li> <li>120 VOLT, 1-PHASE</li> <li>SEE DETAIL 2 ON SHEET AQ-3.2</li> </ul> <p>QTY. 1</p>	<p>UTILITY REQUIREMENTS</p>
<p>AUTOMATIC CHEMICAL CONTROLLER</p> <ul style="list-style-type: none"> <li>10 AMPS</li> <li>115 VOLT, 1-PHASE</li> <li>DISCONNECT</li> <li>SEE DETAIL 1 ON SHEET AQ-3.2</li> </ul> <p>QTY. 1</p>	
<p>CHLORINE GENERATOR</p> <ul style="list-style-type: none"> <li>40 AMPS</li> <li>208-240 VOLT, 1-PHASE</li> <li>SEE DETAIL 1 ON SHEET AQ-3.2</li> </ul> <p>QTY. 1</p>	
<p>ACID FEEDER</p> <ul style="list-style-type: none"> <li>10 AMPS</li> <li>110 VOLT, 1-PHASE</li> <li>SEE DETAIL 1 ON SHEET AQ-3.2</li> </ul> <p>QTY. 1</p>	
<p>AUTOMATIC WATER LEVEL CONTROLLER</p> <ul style="list-style-type: none"> <li>10 AMPS</li> <li>110 VOLT, 1-PHASE</li> <li>SEE DETAIL 3 ON SHEET AQ-3.2</li> </ul> <p>QTY. 1</p>	

POOL PLUMBING NOTES

- ALL PLUMBING WORK, THROUGHOUT THE ENTIRE SWIMMING POOL PROJECT, SHALL COMPLY AND BE IN ACCORDANCE WITH THE WASHINGTON PLUMBING CODE.
- ALL POOL RECIRCULATION LINES TO BE SCHEDULE 80 PVC PIPE (ASTM D1785), UNLESS OTHERWISE SPECIFIED. ALL PIPE FITTINGS TO BE SCHEDULE 80 PVC (ASTM D2466), UNLESS OTHERWISE SPECIFIED. ALL TRUE UNION BALL VALVES TO BE SCHEDULE 80 PVC (ASTM F1970), UNLESS OTHERWISE SPECIFIED. PVC PIPING SHALL BE STAMPED WITH N.S.F. SEAL OF APPROVAL.
- ALL HEATER INFLUENT AND EFFLUENT LINES FROM THE BYPASS TO THE MECHANICAL CONNECTION ARE TO BE SCHEDULE 40 CPVC PIPE (ASTM F439). ALL HEATER INFLUENT AND EFFLUENT LINE TRUE UNION BALL VALVES TO BE SCHEDULE 40 CPVC (ASTM F1970), UNLESS OTHERWISE SPECIFIED.
- ALL DEHUMIDIFICATION INFLUENT AND EFFLUENT LINES FROM THE BYPASS TO THE MECHANICAL CONNECTION ARE TO BE SCHEDULE 40 CPVC PIPE (ASTM F439). ALL DEHUMIDIFICATION INFLUENT AND EFFLUENT LINE TRUE UNION BALL VALVES TO BE SCHEDULE 40 CPVC (ASTM F1970), UNLESS OTHERWISE SPECIFIED. DYNAMIC HEAD TO OVERCOME HEAD LOSS FROM POOL FILTER RECIRCULATION CONNECTION, TO SERESCO, AND BACK TO POOL. RECIRCULATION SHALL BE DESIGNED BY OTHERS.
- ALL VALVES TWO (2) INCHES AND SMALLER TO BE TRUE UNION PVC BALL VALVES, UNLESS OTHERWISE SPECIFIED. ALL VALVES THREE (3) INCHES AND LARGER TO BE BUTTERFLY VALVES BY BRAY, SERIES 30, POLYESTER COATED WITH STAINLESS STEEL STEM, NYLON COATED DISC AND EPDM SEAT, UNLESS OTHERWISE SPECIFIED.
- EACH FLOW METER SHALL BE LOCATED FIVE (5) STRAIGHT PIPE DIAMETERS UPSTREAM AND TWENTY (20) STRAIGHT PIPE DIAMETERS DOWNSTREAM FROM ANY VALVES, ELBOWS OR OTHER SOURCES OF TURBULENCE. INSTALL PER MANUFACTURERS INSTRUCTIONS.
- EACH FILTER DRAIN SHALL BE PIPED TO WASTE WITH A SIX (6) INCH FREE FALL AT THE POINT OF DISPOSAL. NO MORE THAN ONE FILTER SHALL BE BACKWASHED AT A TIME.
- EACH POOL TO BE DRAINED VIA THE BACKWASH PIPE BY SETTING FILTER MULTI-PORT VALVE TO "WASTE".
- THESE DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL PIPE LOCATIONS TO BE FIELD VERIFIED WITH ALL OTHER TRADES BY POOL CONTRACTOR. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS AS REQUIRED.
- POOL CONTRACTOR IS NOT RESPONSIBLE FOR PENETRATIONS THRU FIRE RATED WALLS, FLOORS OR ROOMS. PENETRATIONS TO BE FIRE RATED TO ORIGINAL SPECIFICATIONS BY OTHERS.
- WHERE REQUIRED, STRUCTURAL SUPPORTS OF PIPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- THE CHEMICAL CONTROLLER SHALL BE PROVIDED WITH A FLOW SWITCH WHICH WILL TURN OFF THE CHEMICAL METERING PUMP AND CHLORINATOR SOLENOID WHEN THERE IS NO FLOW FROM THE SAMPLE STREAM INFLUENT PIPE, WHICH SHALL ORIGINATE FROM THE FILTERED WATER SUPPLY PIPE. THE FLOW SWITCH WILL PREVENT THE CHEMICAL EQUIPMENT FROM OPERATING DURING THE BACKWASH CYCLE.
- POOL CONTRACTOR SHALL VERIFY THAT ALL PIPING, VALVES, GAUGES, FILTER, CHEMICAL EQUIPMENT, PUMPS, MOTORS AND CONTROLS ARE ACCESSIBLE PER HEALTH DEPARTMENT CODE. ALL ITEMS SHALL BE PERMANENTLY MARKED WITH THE GOLDFISH IDENTIFICATION SYSTEM (SEE ITEM 31 ON EQUIPMENT LIST)
- A PRESSURE RELIEF VALVE WITH A MAXIMUM PRESSURE RATING OF 75 POUNDS PER SQUARE INCH AND HAVING A THERMAL CAPACITY AT LEAST EQUAL TO THE HEAT INPUT RATING OF THE HEATER SHALL BE INSTALLED ON THE HEATER EFFLUENT PIPE, WITH THE DISCHARGE PIPED TO WITHIN SIX (6) INCHES OF THE FLOOR.

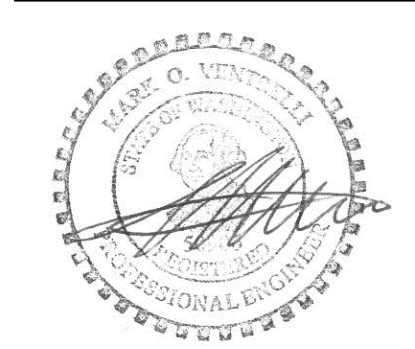
CONTRACTOR NOTES

- CONTRACTOR SHALL SCHEDULE A CALL WITH AQUATIC ENGINEER TO DISCUSS EQUIPMENT ROOM LAYOUT PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE PHOTOS OF CONSTRUCTION - PHOTOS SHALL BE PROVIDED ONCE PER WEEK WITH PROGRESS TO AQUATICS ENGINEER.
- CONTRACTOR/ OWNER SHALL SCHEDULE CONSTRUCTION SITE VISITS WITH AQUATICS ENGINEER IN ADVANCE. SITE VISITS WILL DEPEND ON WHAT WAS AGREED ON SIGNED PROPOSAL.
- POOL CONTRACTOR AND GENERAL CONTRACTOR SHALL REVIEW PERMIT AND SHALL FAMILIARIZE THEMSELVES WITH ANY INSPECTIONS THAT WILL BE REQUIRED.
- POOL CONTRACTOR SHALL LAY OUT ALL PIPING AND EQUIPMENT PER DRAWINGS BEFORE INSTALLATION. IN CASE OF ANY DISCREPANCIES, POOL CONTRACTOR SHALL STOP THE WORK AND CONTACT OWNER, ARCHITECT AND AQUATIC ENGINEER FOR CLARIFICATION.
- POOL CONTRACTOR SHALL VERIFY THAT ALL PIPING, VALVES, GAUGES, FILTER, CHEMICAL EQUIPMENT, PUMPS, MOTORS AND CONTROLS ARE ACCESSIBLE PER HEALTH DEPARTMENT CODE. ALL ITEMS SHALL BE PERMANENTLY MARKED WITH THE GOLDFISH IDENTIFICATION SYSTEM

GENERAL NOTES

- WASHINGTON SWIMMING POOL CODE APPLICABLE
- WASHINGTON PLUMBING CODE APPLICABLE
- ELECTRICAL CODE APPLICABLE - 2020 NEC
- REFER TO POOL EQUIPMENT LIST ON SHEET AQ0.3.
- REFER TO ELECTRICAL REQUIREMENTS ON SHEET AQ0.3
- REFER TO UTILITY REQUIREMENTS ON SHEET AQ0.3
- REFER TO PLUMBING NOTES ON SHEET AQ0.3.

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City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #72

Brand Standards  
All Brand Standards  
must be followed - No  
deviation permitted  
without prior written  
Goldfish Franchise  
approval.

issue / revision date  
11-21-22 Building Permit  
01-11-23 Owner Revision  
02-09-23 City Review Comments  
02-09-23 DOH Review Comments  
02-09-23 Elect. Review Comments

drawn by checked by

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

Equipment List, Electrical  
& Utility Requirements and  
Plumbing Notes

project: sheet title:

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job number 22006 sheet number AQ0.3

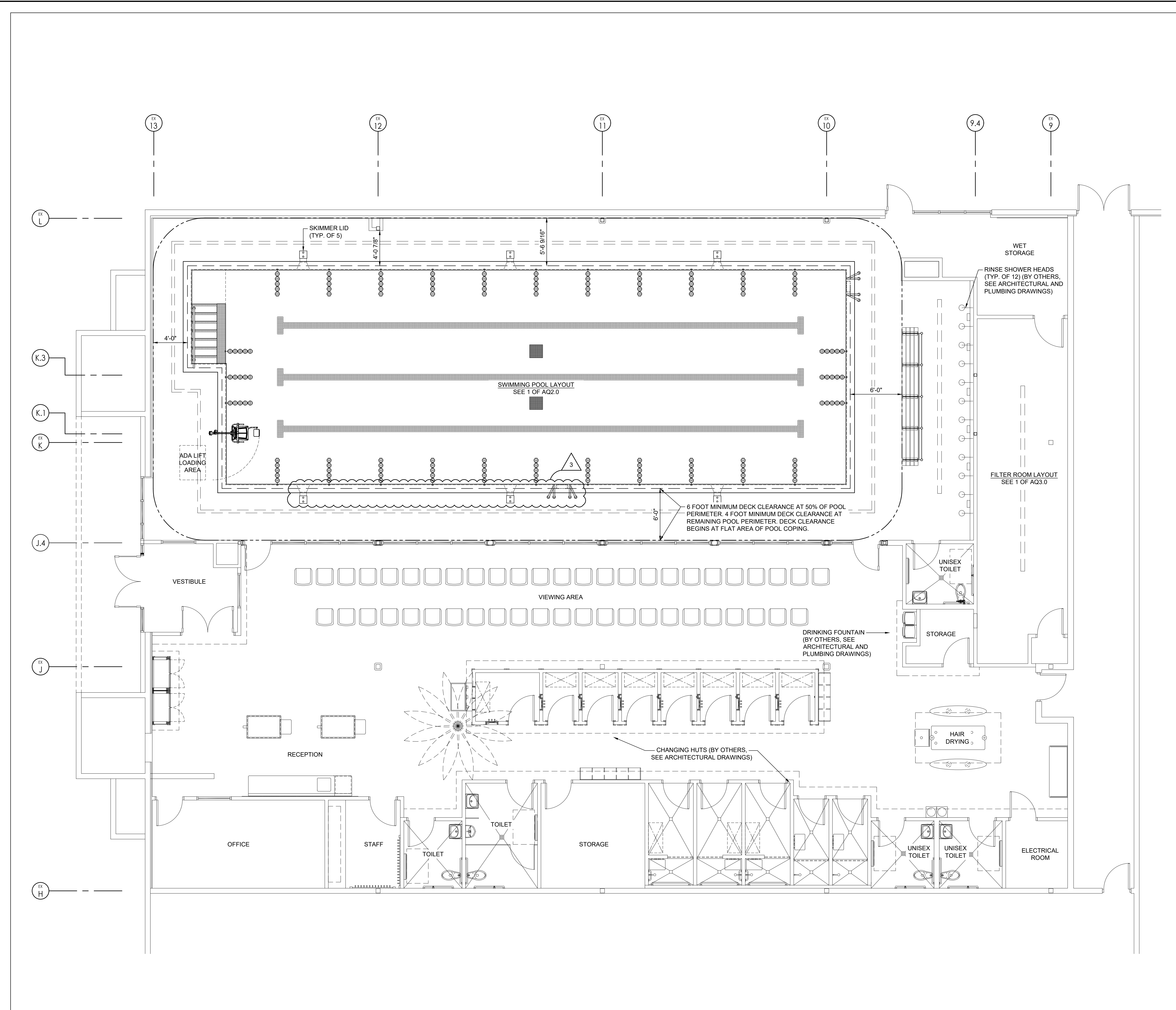
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PRCTI20221793



**GENERAL NOTES**

1. WASHINGTON SWIMMING POOL CODE APPLICABLE
2. WASHINGTON PLUMBING CODE APPLICABLE
3. ELECTRICAL CODE APPLICABLE - 2020 NEC
4. REFER TO POOL EQUIPMENT LIST ON SHEET AQ0.3.
5. REFER TO ELECTRICAL REQUIREMENTS ON SHEET AQ0.3
6. REFER TO UTILITY REQUIREMENTS ON SHEET AQ0.3
7. REFER TO PLUMBING NOTES ON SHEET AQ0.3.

**SWIMMING POOL DATA**

SURFACE AREA:	1,844 SQ.FT.
PERIMETER:	202'-0"
WATER DEPTHS:	4'-0 TO 4'-2"
VOLUME:	55,732 GAL.
DESIGN FLOW RATE:	223 G.P.M.
TURNOVER RATE:	250 MINUTES
BATHER LOAD (25 SQ.FT. PER BATHER)	73 BATHERS

**POOL EQUIPMENT TAGS**

1. FILTER
2. FILTRATION PUMP
3. HEATER (BY OTHERS)
4. HI-LIMIT SENSOR / AQUASTAT
5. FLOW SENSOR (SIGNET)
6. THERMOMETER
7. VACUUM GAUGE
8. PRESSURE GAUGE
9. VARIABLE FREQUENCY DRIVE
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25. RECESSED STEPS
26. ESCUTCHEON PLATE
27. RECESSED WEDGE ANCHOR
28. HANDICAP LIFT AND ANCHOR
29. CUP ANCHORS
30. DECHLORINATION UNIT

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Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards  
All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.

issue / revision date

11-21-22	Building Permit
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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

Aquatic Facility  
Layout

project: \_\_\_\_\_ sheet title: \_\_\_\_\_

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job number 22006 sheet number AQ1.0

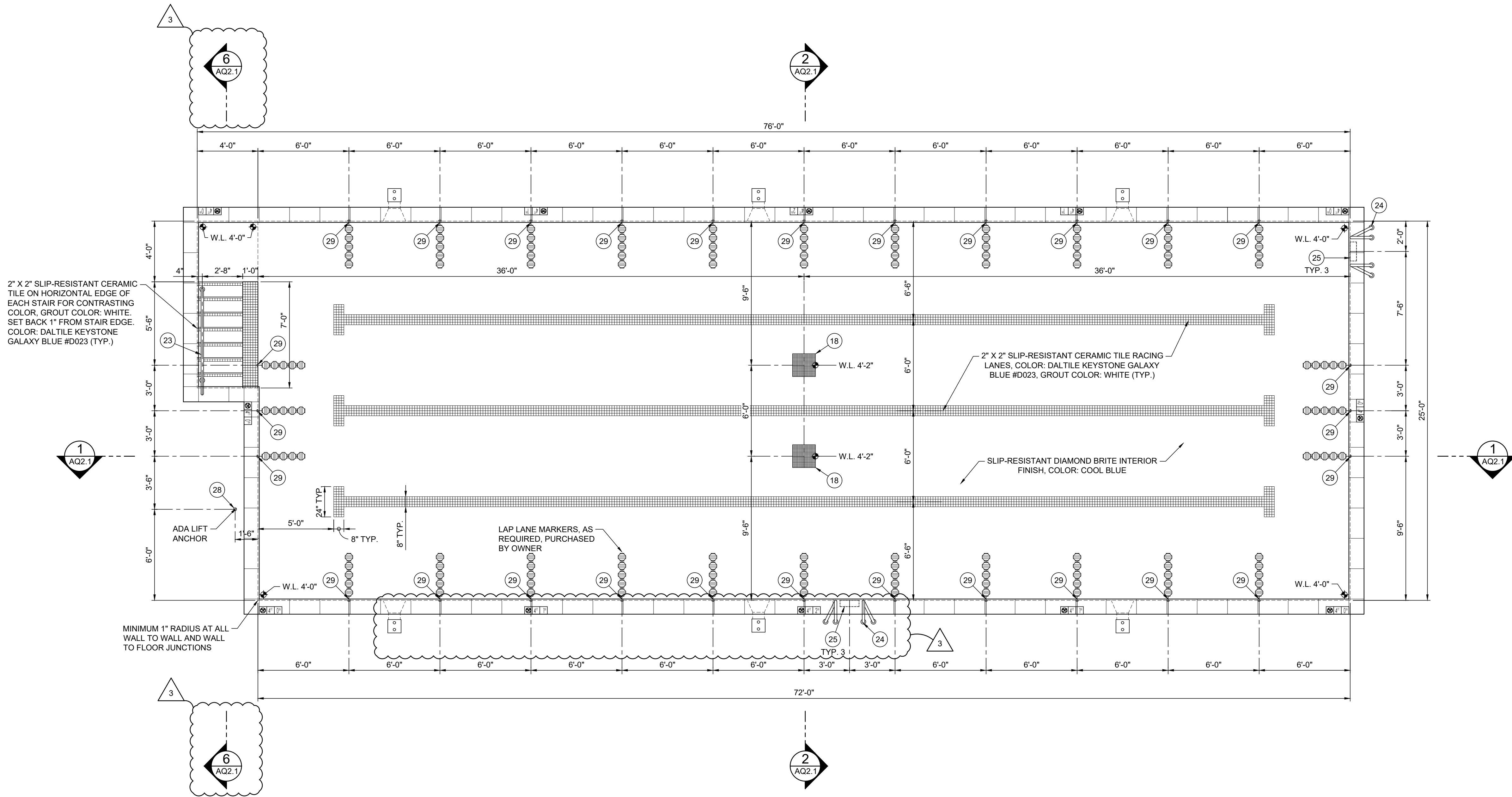
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**NOTES:**

- THE "W.L." NOTATIONS REFER TO THE WATER LEVEL AT EACH LOCATION SHOWN.
- ALL HORIZONTAL DEPTH MARKERS SHALL BE LOCATED ON THE POOL DECK EDGE OR IN A KNOCKOUT LOCATED ON THE HORIZONTAL SURFACE ON TOP OF THE COPING STONES. DEPTH MARKERS TO BE 4" HIGH ON 6" X 6" SLIP-RESISTANT CERAMIC TILE WITH A NO-DIVING SYMBOL ON CERAMIC TILE AT EACH LOCATION (SEE DETAIL 3 ON AQ2.1). ALL NUMERALS AND LETTERS TO BE A COLOR THAT IS CONTRASTING TO THEIR BACKGROUND. DEPTH MARKERS SHALL BE SPACED NOT TO EXCEED TWENTY FIVE FEET (25') INTERVALS.
- ALL VERTICAL DEPTH MARKERS SHALL BE LOCATED AT THE TOP OF THE POOL WALL, JUST BELOW THE COPING STONES. DEPTH MARKERS TO BE 4" HIGH ON 6" X 6" CERAMIC TILE AT EACH LOCATION. ALL NUMERALS AND LETTERS TO BE A COLOR THAT IS CONTRASTING TO THEIR BACKGROUND. DEPTH MARKERS SHALL BE SPACED NOT TO EXCEED TWENTY FIVE FEET (25') INTERVALS.
- UNIVERSAL NO-DIVING SYMBOLS SHALL BE PROVIDED ON THE DECK AT EACH DEPTH MARKER LOCATION.
- POOL CONTRACTOR SHALL PROVIDE ALL NECESSARY POOL SIGNAGE (**BATHER LOAD AND SWIMMING POOL RULES**) AS REQUIRED BY STATE AND COUNTY HEALTH DEPARTMENTS. COORDINATE LOCATIONS OF SIGNAGE ON WALLS WITH GENERAL CONTRACTOR AND OWNER.
- POOL BOILER MAY REQUIRE STATE INSPECTION.
- POOL CONTRACTOR MUST BE CERTIFIED DIAMOND BRITE INSTALLER AND COMPLETE 5 YEAR WARRANTY CERTIFICATE FOR OWNER.
- ADA LIFT NOT SHOWN FOR CLARITY, POOL CONTRACTOR SHALL INSTALL AND BOND ANCHOR.
- PROTRUDED CORNERS SHALL BE ROUNDED TO PROTECT USERS FROM LACERATIONS.



**GENERAL NOTES**

- WASHINGTON SWIMMING POOL CODE APPLICABLE
- WASHINGTON PLUMBING CODE APPLICABLE
- ELECTRICAL CODE APPLICABLE - 2020 NEC
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Engineering	Public Works
Fire	Traffic

**Client**

Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

**Brand Standards**

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drawn by \_\_\_\_\_ checked by \_\_\_\_\_

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

**Swimming Pool Layout**

project: \_\_\_\_\_ sheet title: \_\_\_\_\_



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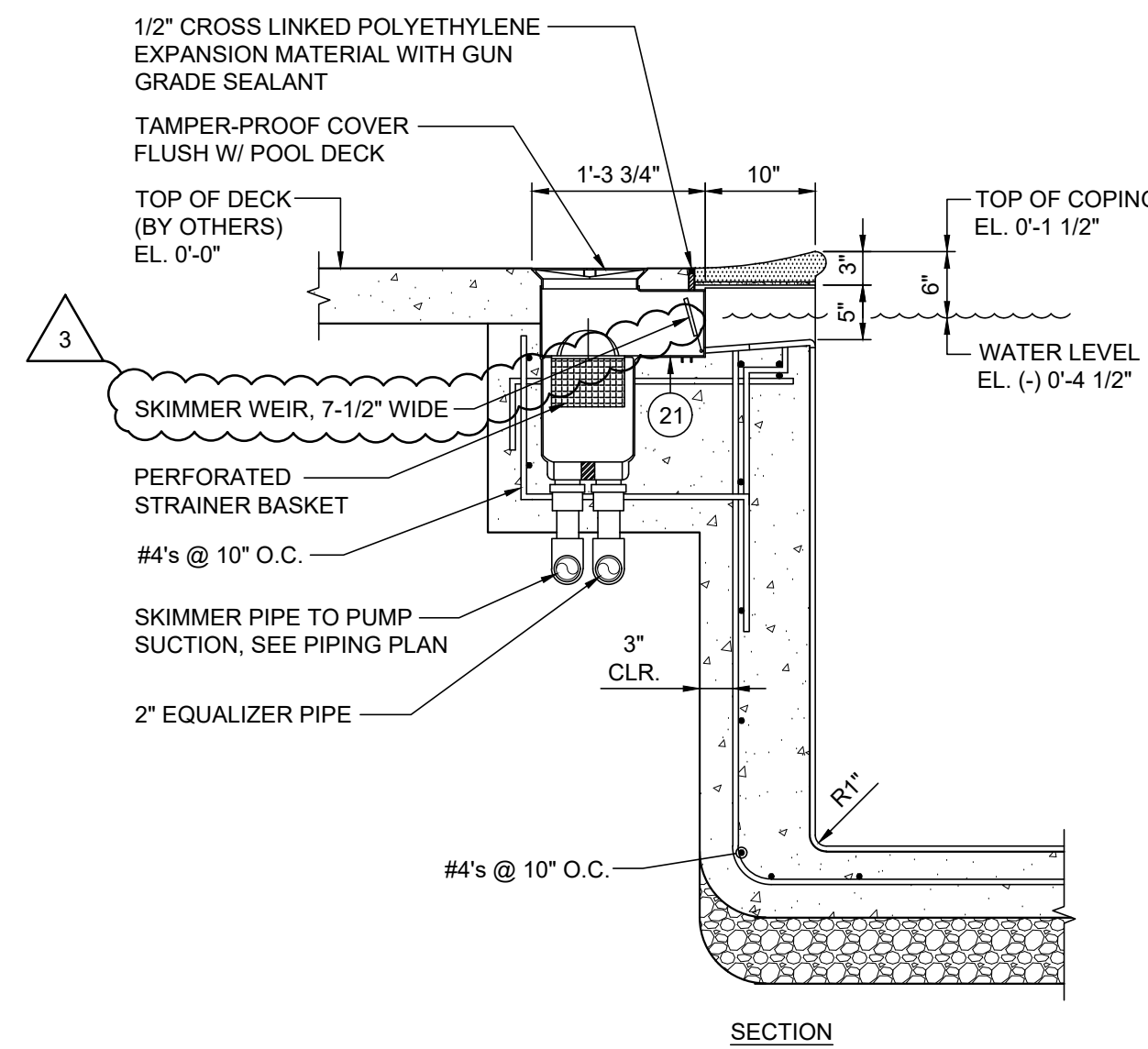
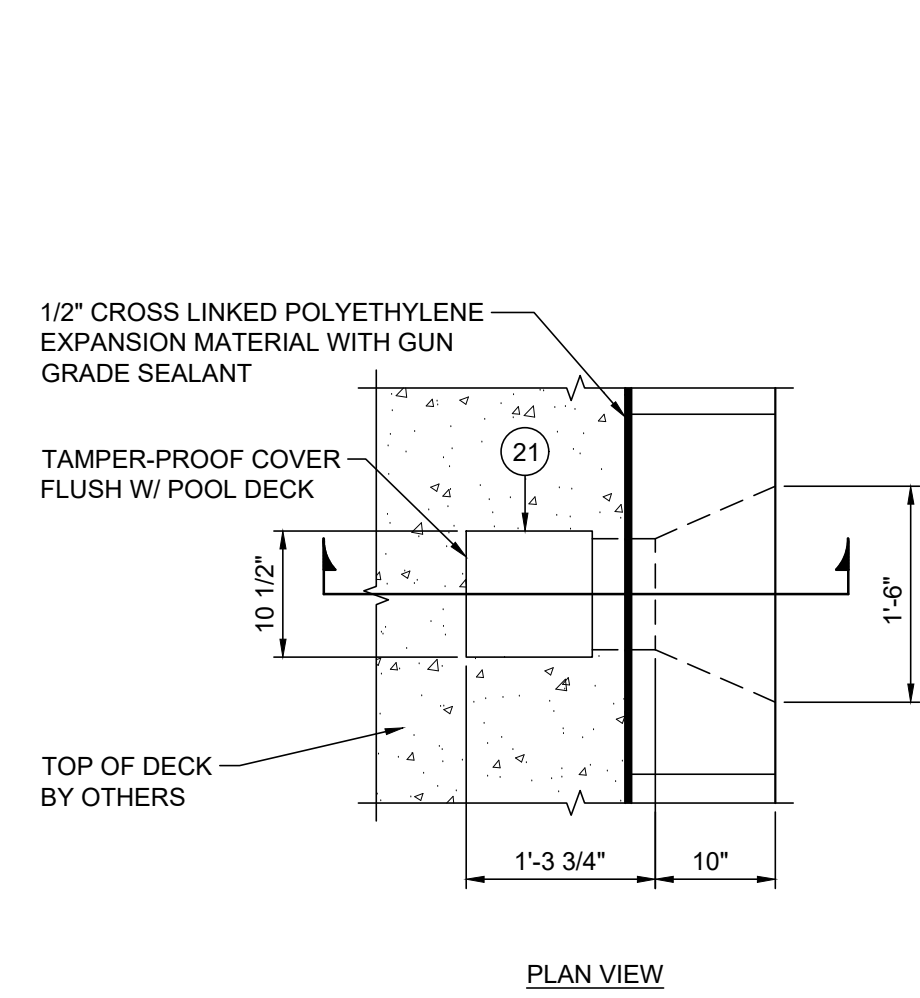


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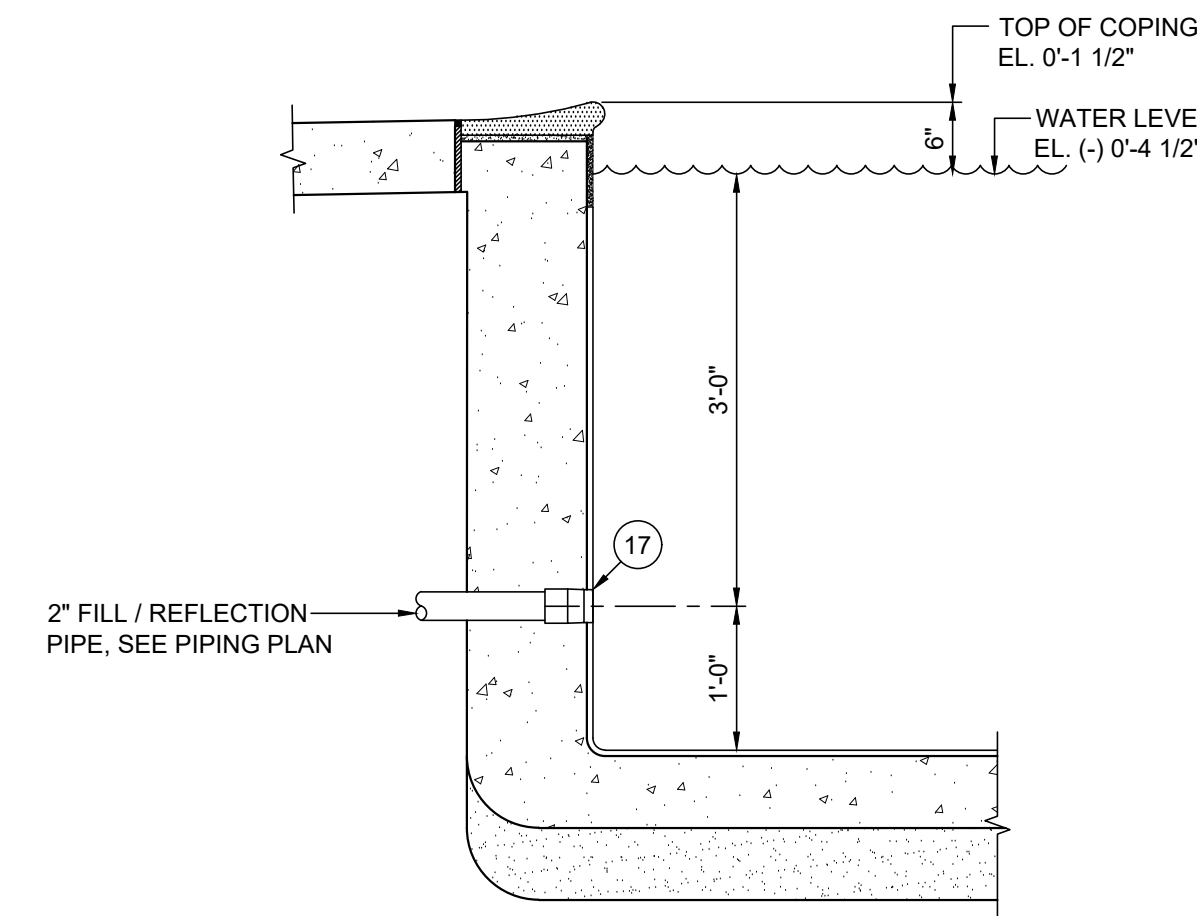


1 SURFACE SKIMMER DETAIL

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

NOTE:

FILL AND REFLECTION PIPES SHALL SLOPE A MAXIMUM OF 1" PER 10'-0" FROM THE EQUIPMENT ROOM TO THE SWIMMING POOL WALL.



2 FILL AND REFLECTION PIPE DETAIL

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

GENERAL NOTES

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2. WASHINGTON PLUMBING CODE APPLICABLE
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7. REFER TO PLUMBING NOTES ON SHEET AQ0.3.

SWIMMING POOL DATA

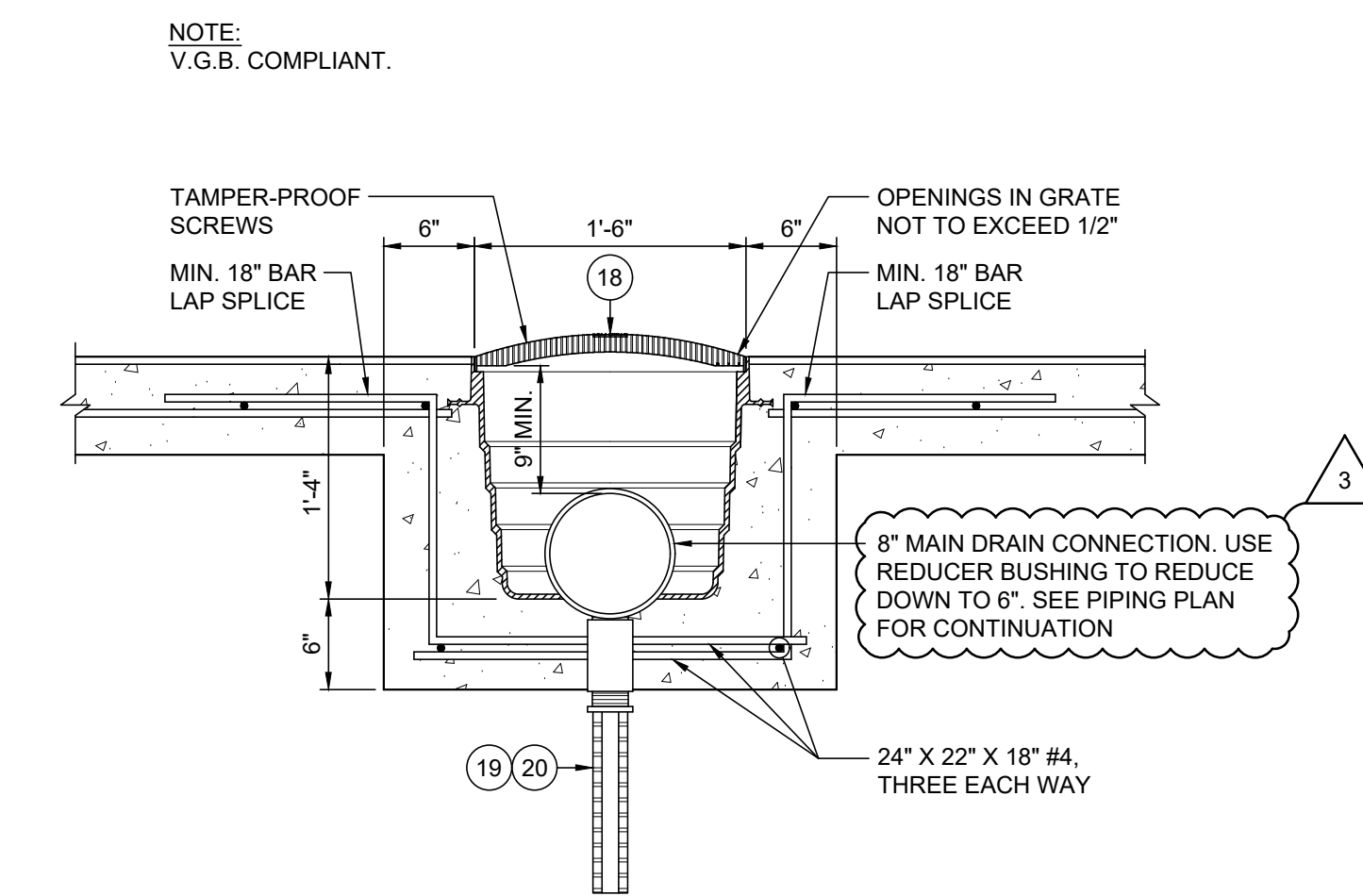
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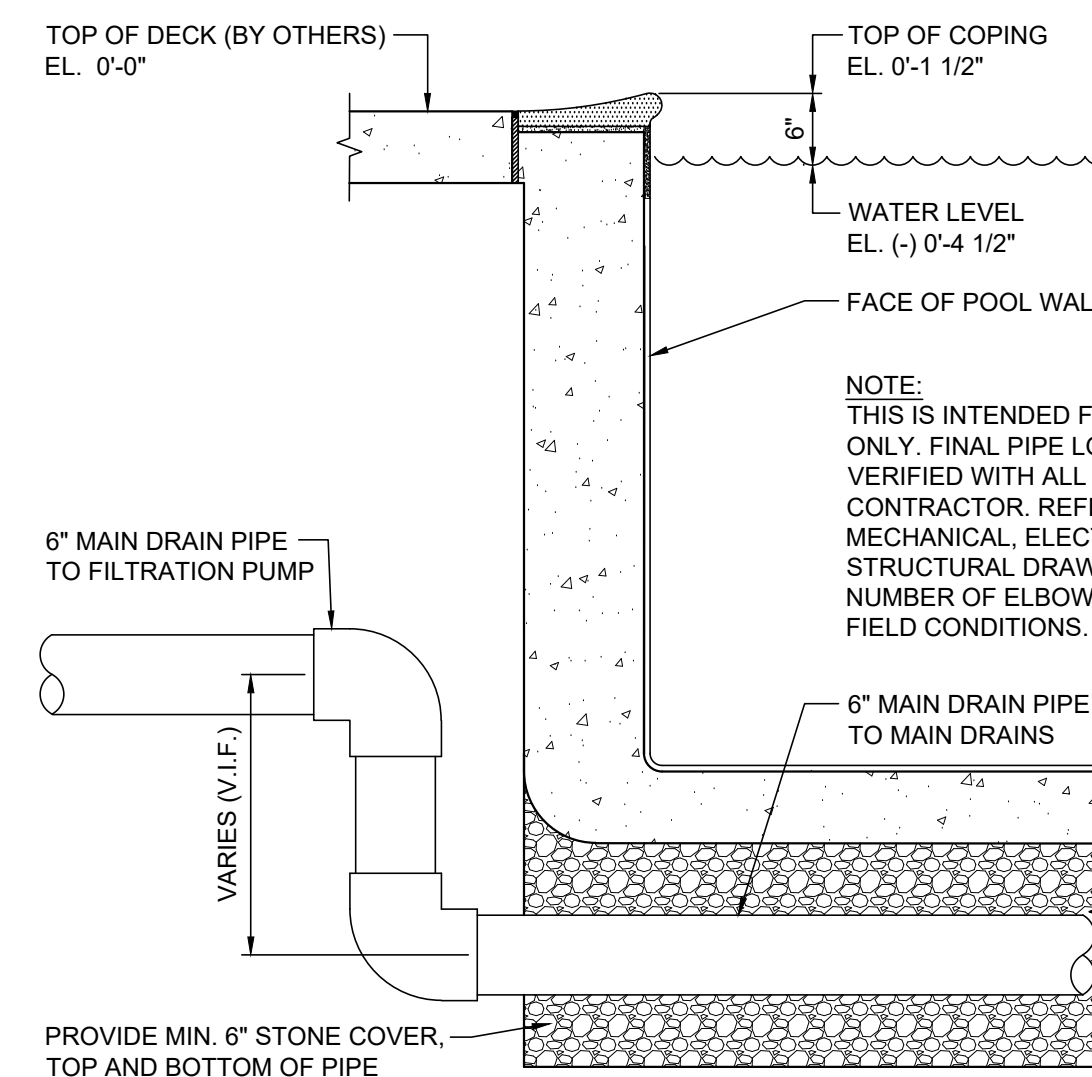
STRUCTURAL NOTES

1. CONCRETE F<sub>c</sub> = 4,000 P.S.I. MINIMUM AT 28 DAYS. ALL CONCRETE FOR POOL WALLS AND FLOORS SHALL BE PNEUMATICALLY PLACED IN ONE CONTINUOUS SECTION.
2. REINFORCING STEEL BARS / MESH F<sub>y</sub> = 60,000 P.S.I.
3. SOIL PREPARATION FOR THE CONCRETE POOL SHALL BE AS FOLLOWS:
  - A. CONTRACTOR TO PROVIDE NEW STONE BACKFILL CA7 (3/4" WASHED WITH NO FINES), COMPACTED TO 95% MODIFIED PROCTOR IN 6" LIFTS.
  - B. THE SOIL BEARING CAPACITY SHALL BE VERIFIED IN FIELD BY A GEOTECHNICAL ENGINEER PRIOR TO POURING THE POOL CONCRETE TO ENSURE A NET SOIL BEARING CAPACITY q = 3,000 P.S.F. MINIMUM.
4. PER ACI STANDARDS ALL REBAR EXPOSED TO EARTH/ BACKFILL SHALL HAVE A MINIMUM CONCRETE COVER OF 3" AND ALL REBAR EXPOSED TO WATER SIDE/ INTERIOR OF POOL SHALL HAVE A MINIMUM CONCRETE COVER OF 2".



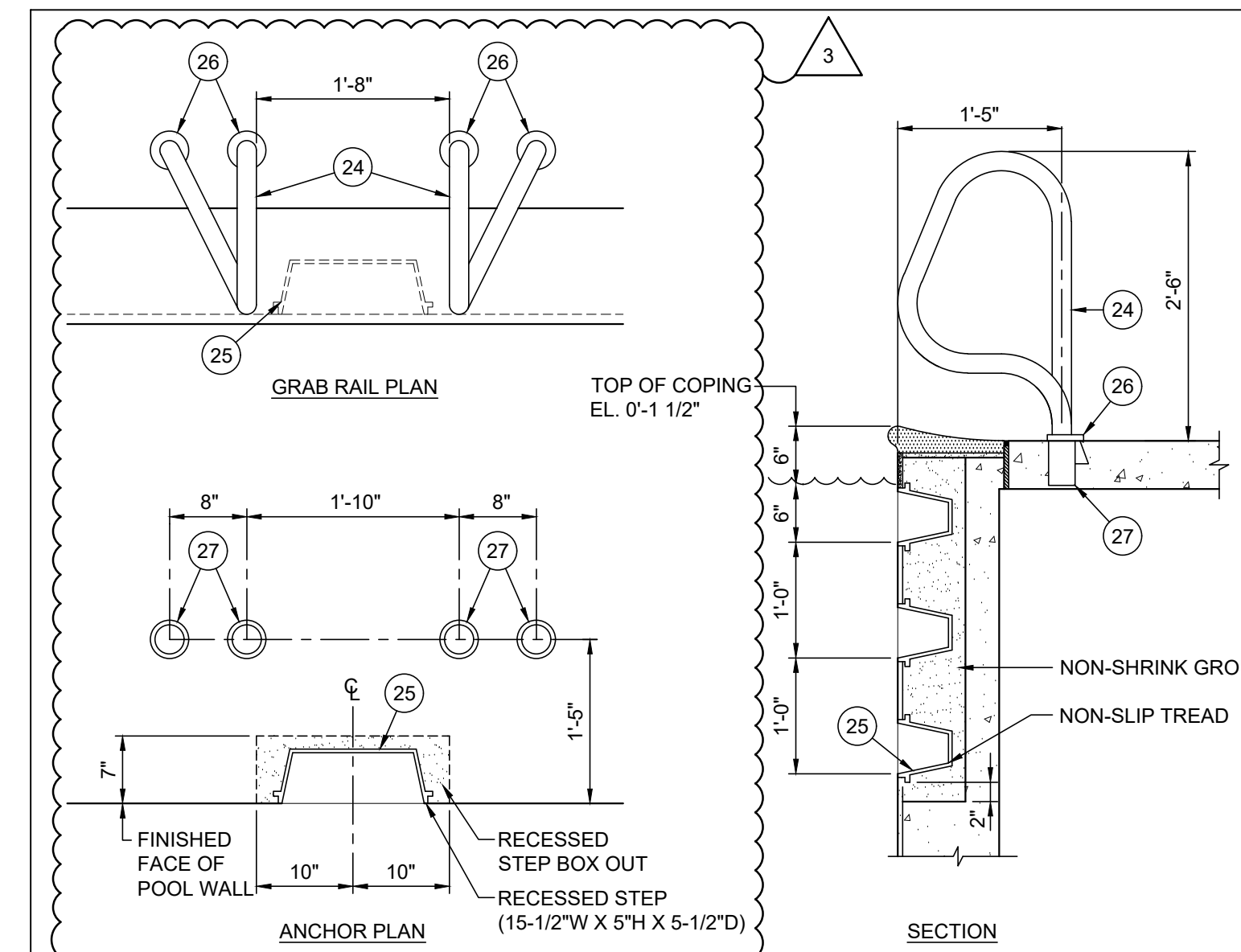
3 18" X 18" MAIN DRAIN DETAIL

SCALE: 1" = 1'-0"



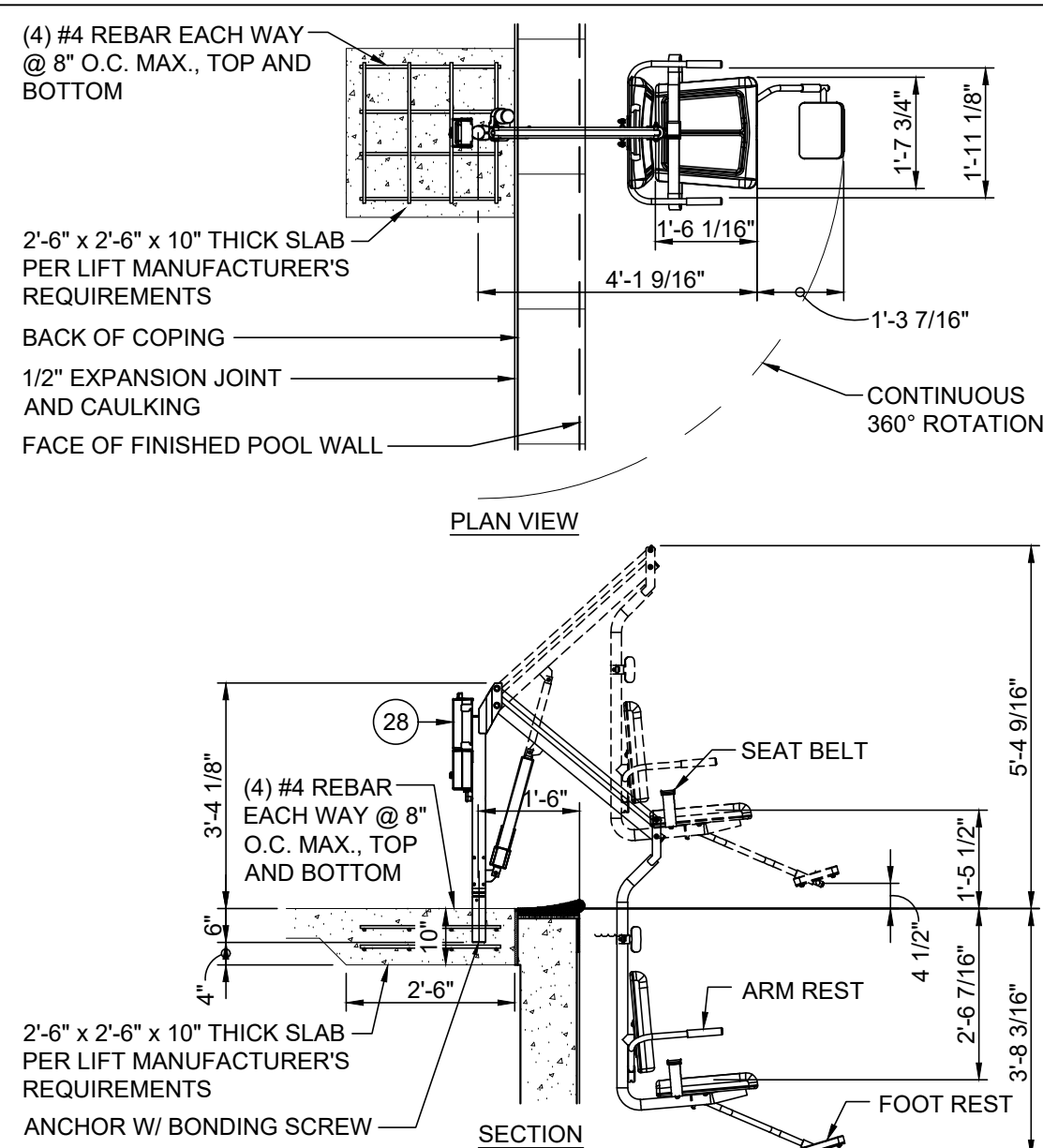
4 TYPICAL MAIN DRAIN PIPE DETAIL

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



5 GRAB RAIL & RECESSED STEPS DETAIL

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

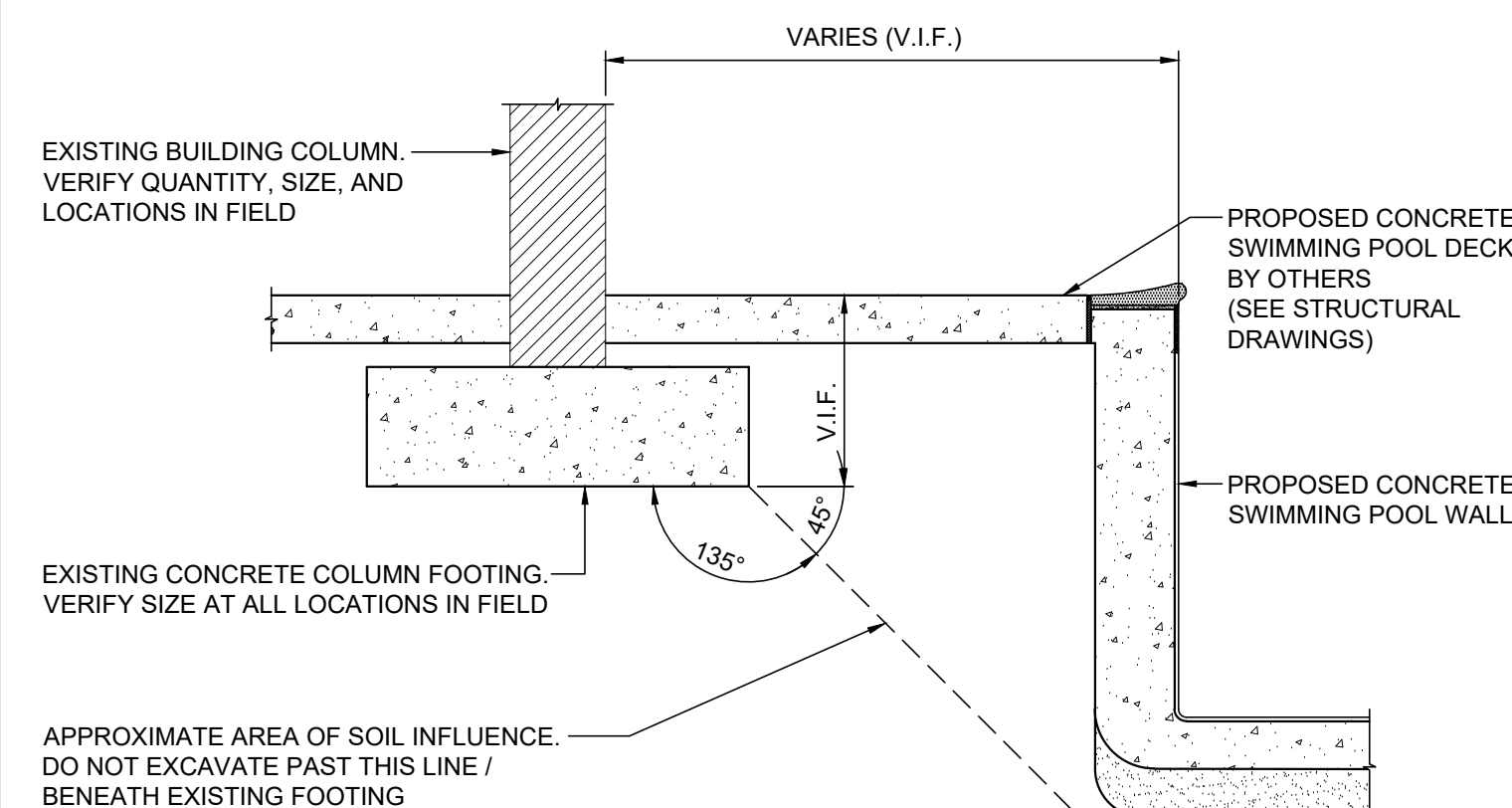


6 HANDICAP LIFT DETAIL

SCALE: 3/8" = 1'-0"

NOTE:

PROPOSED 4" CONCRETE SWIMMING POOL DECK, INTERIOR COLUMNS AND INTERIOR COLUMN FOOTING BY OTHERS (SEE STRUCTURAL DRAWINGS FOR DETAILS). LOCATION, SIZE AND DEPTH OF FOUNDATION AND DECK PER STRUCTURAL DRAWINGS. W-T GROUP SHALL BE NOTIFIED IMMEDIATELY IF FOUNDATION PLAN, SCHEDULE, OR DESIGN DEVIATES FROM THE DETAIL BELOW.



7 TYPICAL EXCAVATION AT EXISTING FOOTING

SCALE: N.T.S.

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Fire	Traffic

Client

Goldfish Swim School  
H&H Swim School  
Puyallup, WA  
F.A. #272

Brand Standards

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issue / revision date

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01-11-23 City Review

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drawn by

checked by

Goldfish Swim School  
South Hill Mall - Unit 900-30  
3500 South Meridian  
Puyallup, WA 98373

project:

sheet title:

dma

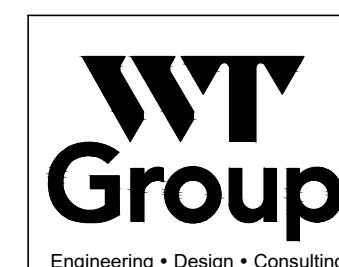
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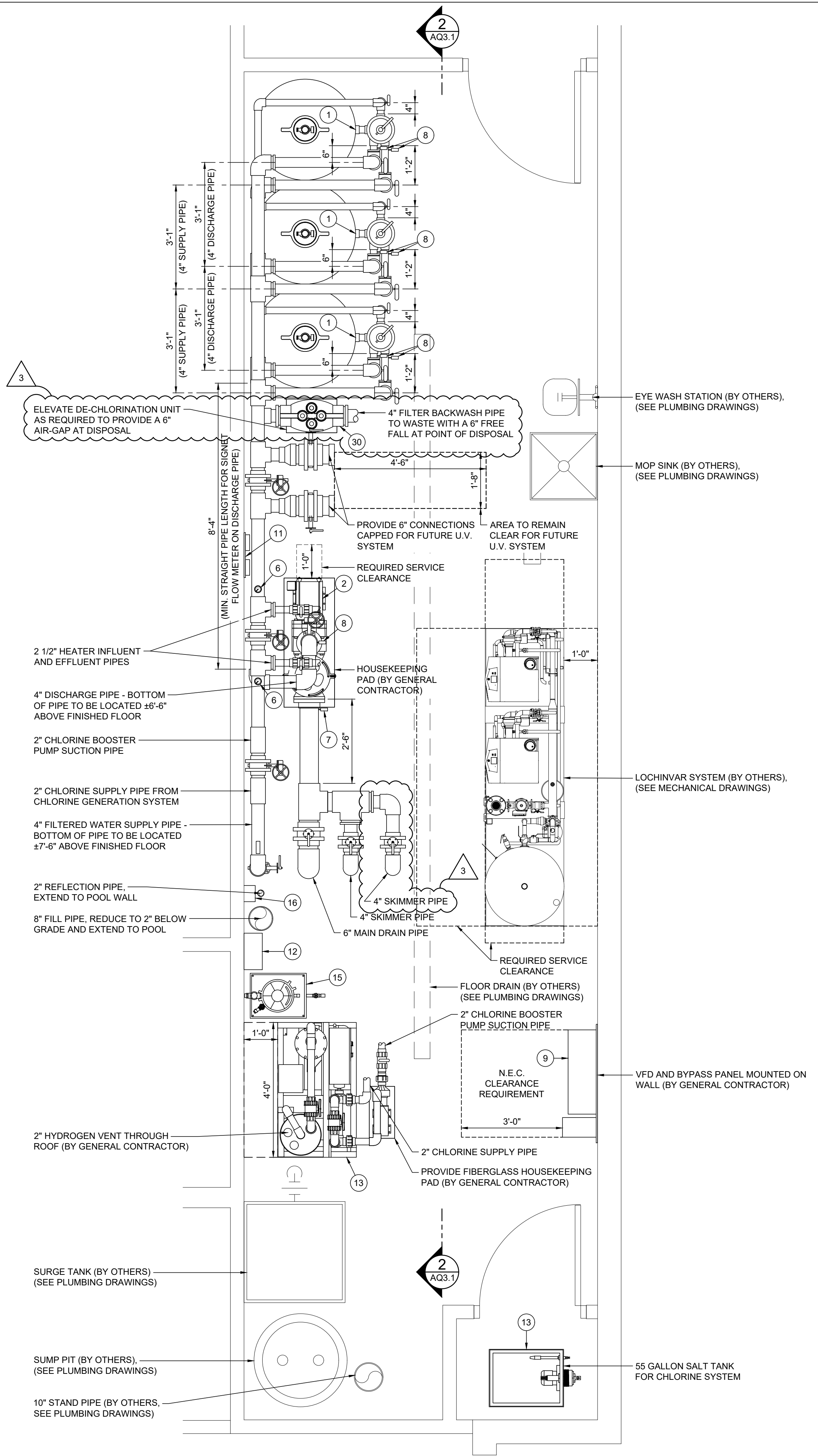
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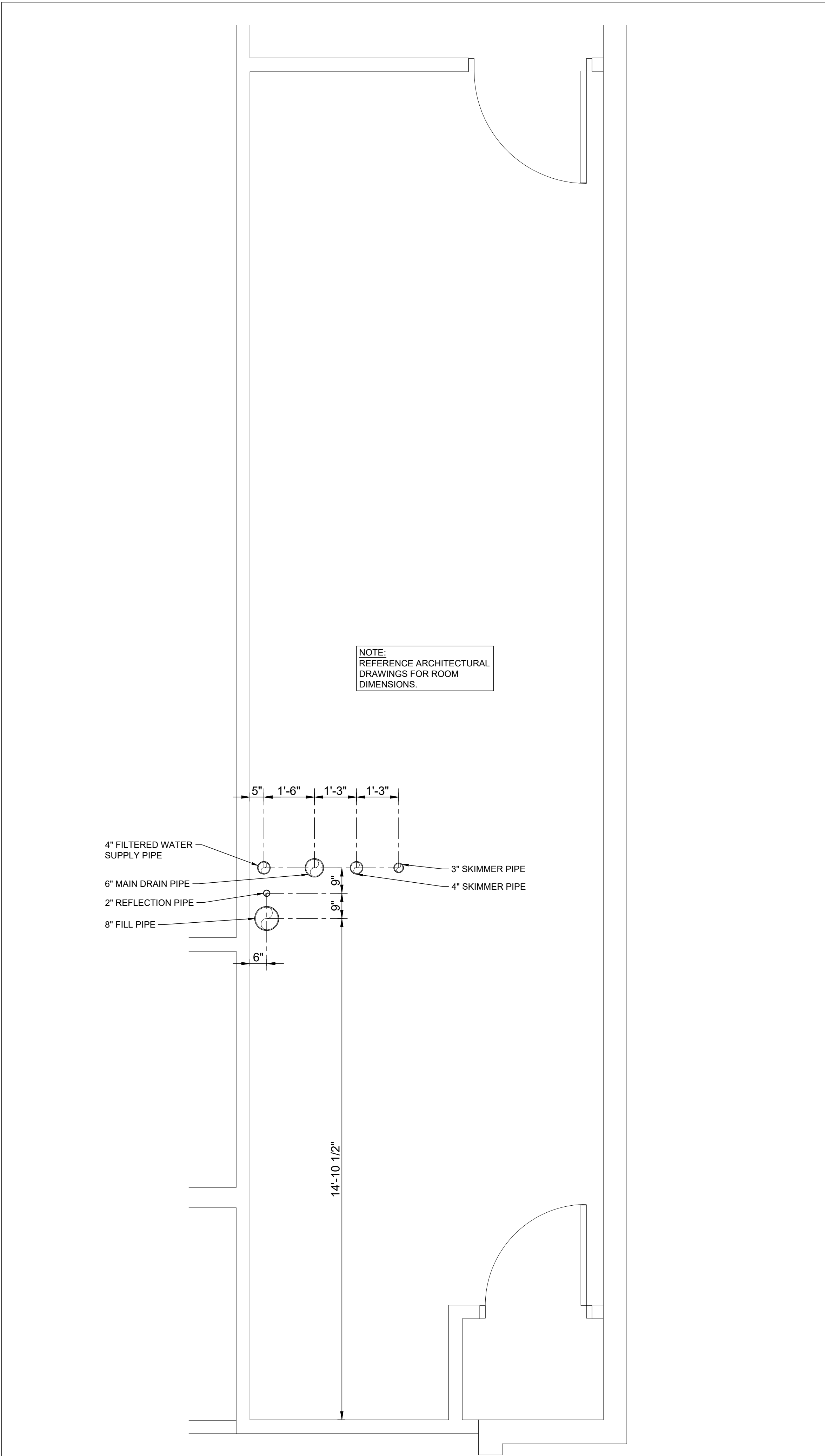
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**1 FILTER EQUIPMENT LAYOUT** SCALE: 1/2" = 1'-0"



**2 FILTRATION PIPING ROUGH-IN LAYOUT** SCALE: 1/2" = 1'-0"

**PRCT120221793**

**GENERAL NOTES**

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The disposal of all sand filter media, replaced every 7 - 8 years will be disposed in the trash as indicated by the applicant. See Engineering Plan Review Responses #1 (5).

Installation, filling and draining of the pool shall comply with applicable county health department requirements. The pool water shall be dechlorinated and have a neutral PH prior to entering the sewer system. The dechlorinator filter unit will be installed to filter backwash water and pool water when drained to the sanitary sewer system. See Engineering Plan Review Responses #1 (8).

The disinfection systems used are Nex-Gen20 chlorinator and Acid Rite feeding systems are closed systems and will not cause a spill. See Engineering Plan Review Responses #1 (4).

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drawn by checked by

Goldfish Swim School  
South Hill Mall - Unit 900-30  
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Puyallup, WA 98373

Filter Equipment  
Layout and Rough-In

project: sheet title:

**dma**  
DORCHEN/MARTIN  
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drawn by  
 checked by  
 Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373  
 project:  
 sheet title:  
 Piping Diagram, Valve Legend and Filter Room

**dma**  
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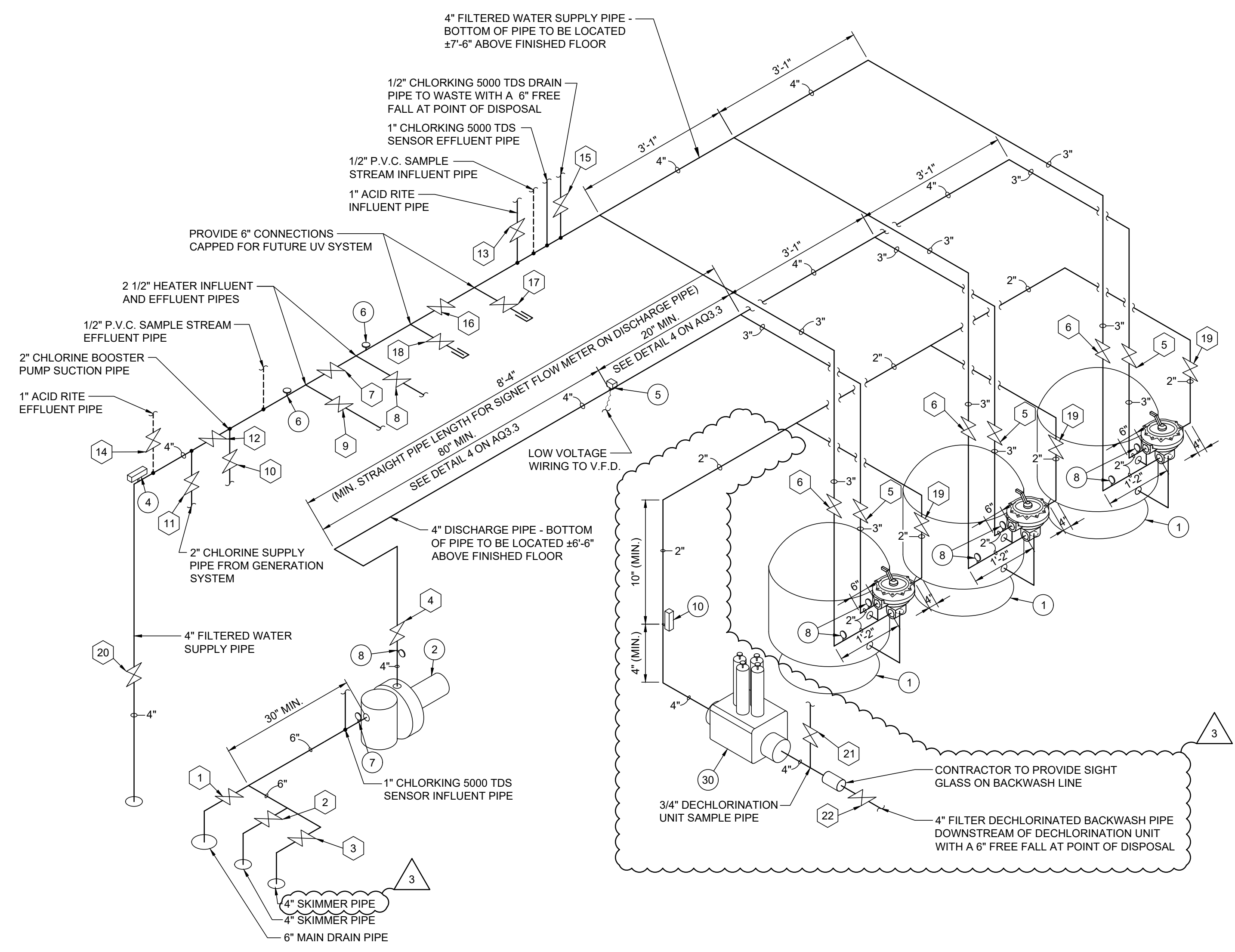
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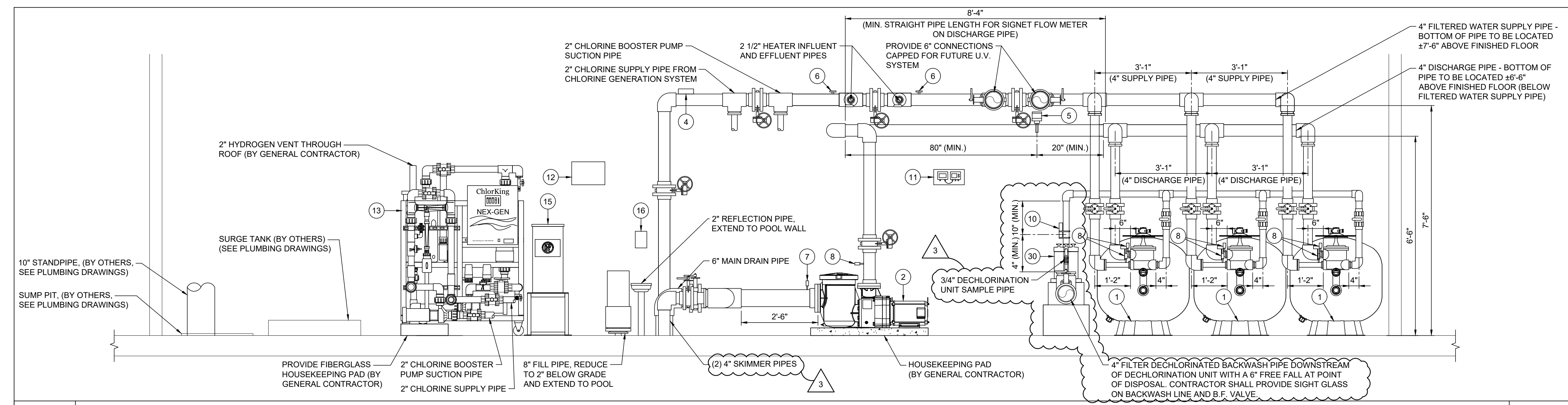
**SWIMMING POOL VALVE LEGEND**

NO.	DESCRIPTION	SIZE	TYPE	QTY.
1.	MAIN DRAIN	6"	BUTTERFLY VALVE	QTY.1
2.	SKIMMER	4"	BUTTERFLY VALVE	QTY.1
3.	SKIMMER	4"	BUTTERFLY VALVE	QTY.1
4.	FILTRATION PUMP DISCHARGE	4"	BUTTERFLY VALVE	QTY.1
5.	FILTER INFLUENT	3"	BUTTERFLY VALVE	QTY.3
6.	FILTER EFFLUENT	3"	BUTTERFLY VALVE	QTY.3
7.	HEATER BYPASS	4"	BUTTERFLY VALVE	QTY.1
8.	HEATER INFLUENT	2 1/2"	TRUE UNION BALL VALVE	QTY.1
9.	HEATER EFFLUENT	2 1/2"	TRUE UNION BALL VALVE	QTY.1
10.	CHLORINE BOOSTER PUMP SUCTION	2"	TRUE UNION BALL VALVE	QTY.1
11.	CHLORINE SUPPLY	2"	TRUE UNION BALL VALVE	QTY.1
12.	CHLORINATOR BYPASS	4"	BUTTERFLY VALVE	QTY.1
13.	ACID RITE INFLUENT	1"	TRUE UNION BALL VALVE	QTY.1
14.	ACID RITE EFFLUENT	1"	TRUE UNION BALL VALVE	QTY.1
15.	TDS CONTROLLER AUTO DRAIN	1/2"	ACTUATED VALVE	QTY.1
16.	U.V. BYPASS	4"	BUTTERFLY VALVE	QTY.1
17.	U.V. INFLUENT	6"	BUTTERFLY VALVE	QTY.1
18.	U.V. EFFLUENT	6"	BUTTERFLY VALVE	QTY.1
19.	BACKWASH	2"	BUTTERFLY VALVE	QTY.3
20.	FILTERED WATER SUPPLY	4"	BUTTERFLY VALVE	QTY.1
21.	DECHLORINATOR UNIT SAMPLE PIPE	3/4"	TRUE UNION BALL VALVE	QTY.1
22.	BACKWASH	4"	BUTTERFLY VALVE	QTY.1



**1 SWIMMING POOL PIPING DIAGRAM**

SCALE:  
N.T.S.



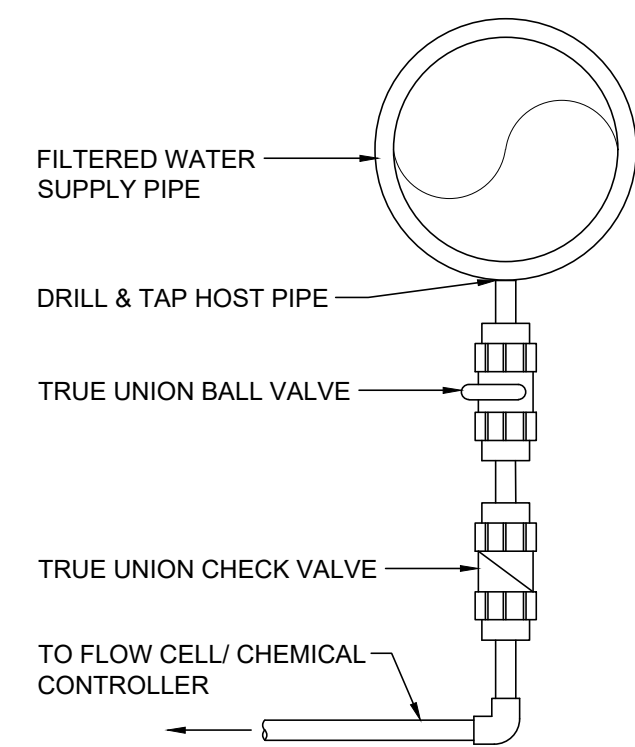
**2 FILTER ROOM SECTION**

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

PRCTI20221793

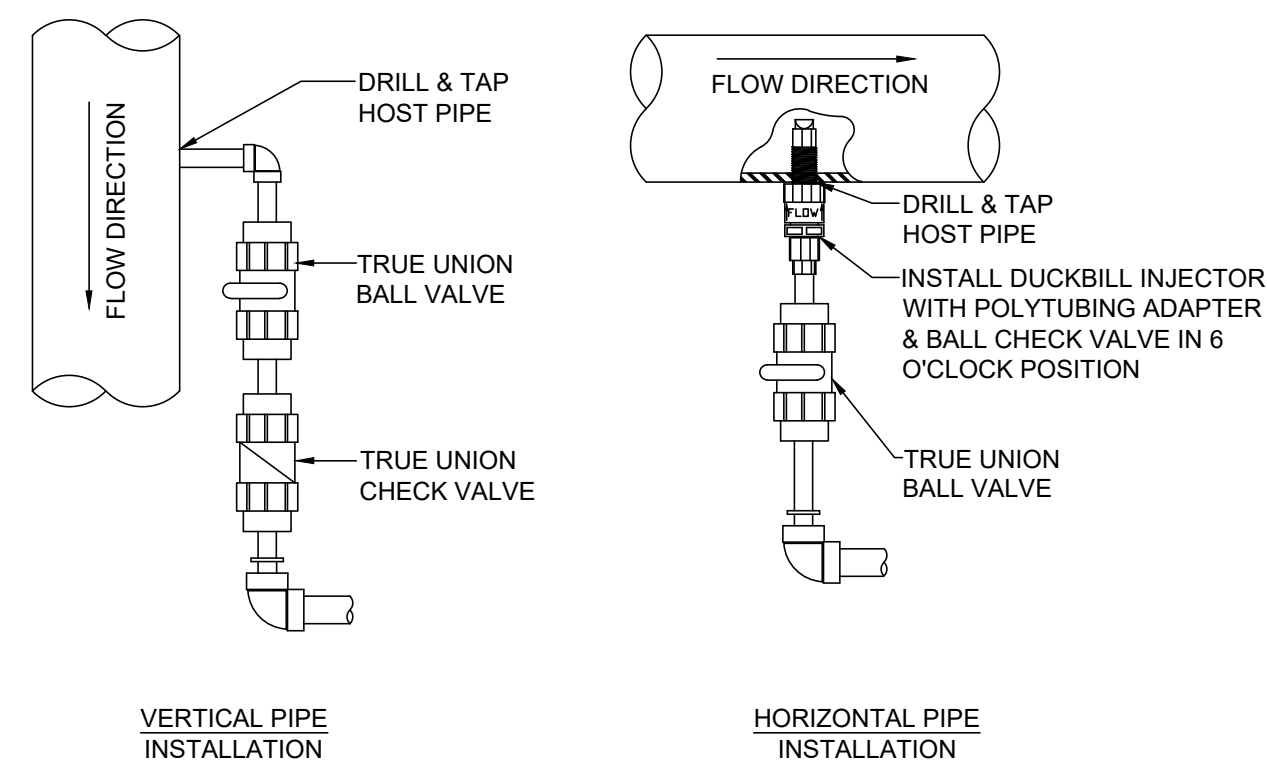
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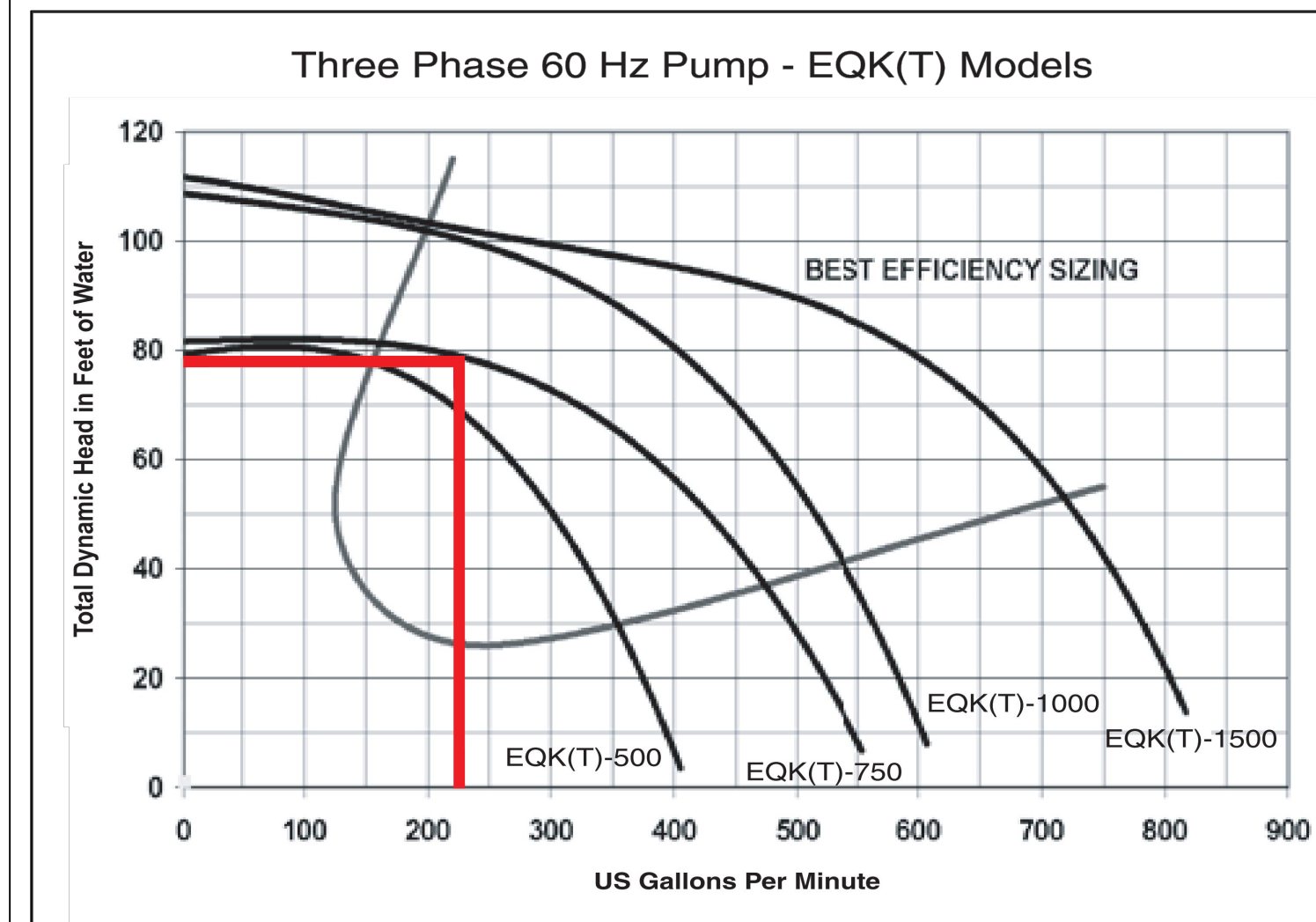
1 SAMPLE STREAM DETAIL

SCALE: N.T.S.



2 CHEMICAL INJECTION DETAIL

SCALE: N.T.S.



3 PUMP CURVE (223 G.P.M. @ 78' T.D.H.)

SCALE: N.T.S.

GENERAL NOTES

1. WASHINGTON SWIMMING POOL CODE APPLICABLE
2. WASHINGTON PLUMBING CODE APPLICABLE
3. ELECTRICAL CODE APPLICABLE - 2020 NEC
4. REFER TO POOL EQUIPMENT LIST ON SHEET AQ0.3.
5. REFER TO ELECTRICAL REQUIREMENTS ON SHEET AQ0.3
6. REFER TO UTILITY REQUIREMENTS ON SHEET AQ0.3
7. REFER TO PLUMBING NOTES ON SHEET AQ0.3.

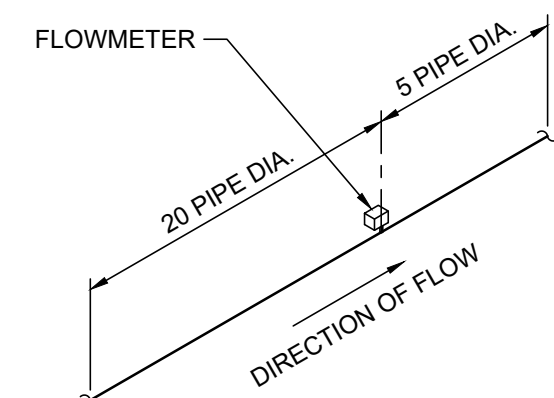
SWIMMING POOL DATA

SURFACE AREA: 1,844 SQ.FT.  
 PERIMETER: 202'-0"  
 WATER DEPTHS: 4'-0 TO 4'-2"  
 VOLUME: 55,732 GAL.  
 DESIGN FLOW RATE: 223 G.P.M.  
 TURNOVER RATE: 250 MINUTES  
 BATHER LOAD (25 SQ.FT. PER BATHER): 73 BATHERS

POOL EQUIPMENT TAGS

1. FILTER
2. FILTRATION PUMP
3. HEATER (BY OTHERS)
4. HI-LIMIT SENSOR / AQUASTAT
5. FLOW SENSOR (SIGNET)
6. THERMOMETER
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- NOTES:
1. EACH FLOWMETER / FLOW RATE INDICATOR SHALL BE LOCATED FIVE (5) STRAIGHT PIPE DIAMETERS UPSTREAM AND TWENTY (20) STRAIGHT PIPE DIAMETERS DOWNSTREAM FROM ANY VALVES, ELBOWS OR OTHER SOURCES OF TURBULENCE.
  2. INSTALL PER MANUFACTURERS INSTRUCTIONS.

4 FLOWMETER INSTALLATION DETAIL

SCALE: N.T.S.

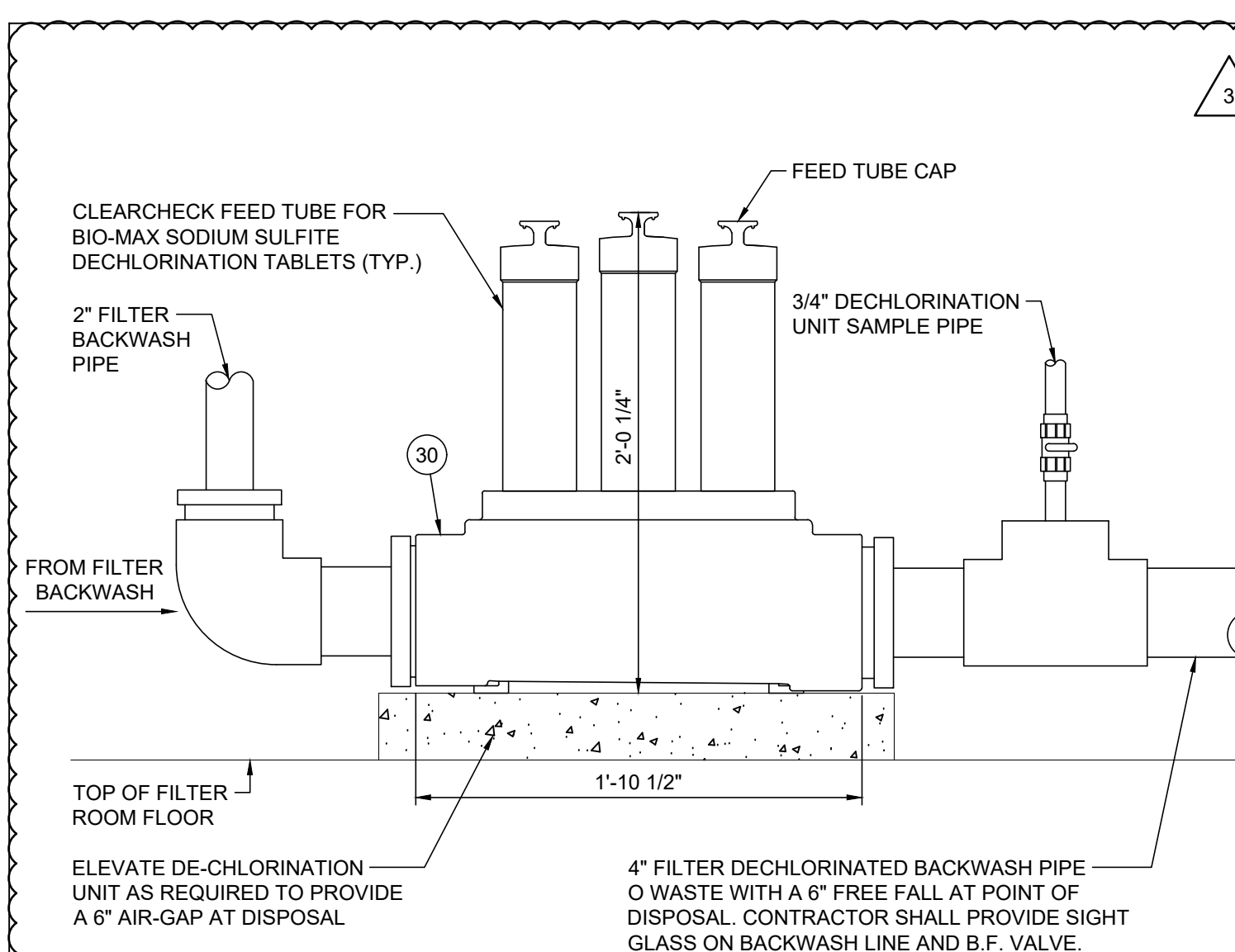
MINIMUM REQUIRED SUPPORT SPACING (IN FEET)

NOM PIPE SIZE (IN)	PVC PIPE									
	SCHEDULE 40					SCHEDULE 80				
	TEMP (°F)					TEMP (°F)				
1/2	4 1/2	4 1/2	4	2 1/2	2 1/2	5	4 1/2	4 1/2	3	2 1/2
3/4	5	4 1/2	4	2 1/2	2 1/2	5 1/2	5	4 1/2	3	2 1/2
1	5 1/2	5	4 1/2	3	2 1/2	6	5 1/2	5	3 1/2	3
1 1/4	5 1/2	5 1/2	5	3	3	6	6	5 1/2	3 1/2	3
1 1/2	6	5 1/2	5	3 1/2	3	6 1/2	6	5 1/2	3 1/2	3 1/2
2	6	5 1/2	5	3 1/2	3	7	6 1/2	6	4	3 1/2
2 1/2	7	6 1/2	6	4	3 1/2	7 1/2	7 1/2	6 1/2	4 1/2	4
3	7	7	6	4	3 1/2	8	7 1/2	7	4 1/2	4
4	7 1/2	7	6 1/2	4 1/2	4	9	8 1/2	7 1/2	5	4 1/2
6	8 1/2	8	7 1/2	5	4 1/2	10	9 1/2	9	6	5
8	9	8 1/2	8	5	4 1/2	11	10 1/2	9 1/2	6 1/2	5 1/2
10	10	9	8 1/2	5 1/2	5	12	11	10	7	6
12	11 1/2	10 1/2	9 1/2	6 1/2	5 1/2	12	11	10	7	6

\* SUPPORT VERTICALLY AND HORIZONTALLY

5 PIPE SUPPORT SPACING

SCALE: N.T.S.



6 DECHLORINATOR UNIT DETAIL

SCALE: N.T.S.

PRCTI20221793



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Building	Planning
Engineering	Public Works
Fire	Traffic

Client  
 Goldfish Swim School  
 H&H Swim School  
 Puyallup, WA  
 F.A. #272

Brand Standards  
 All Brand Standards must be followed - No deviation permitted without prior written Goldfish Franchise approval.

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drawn by checked by

Goldfish Swim School  
 South Hill Mall - Unit 900-30  
 3500 South Meridian  
 Puyallup, WA 98373

Filter Equipment Details

project: sheet title:

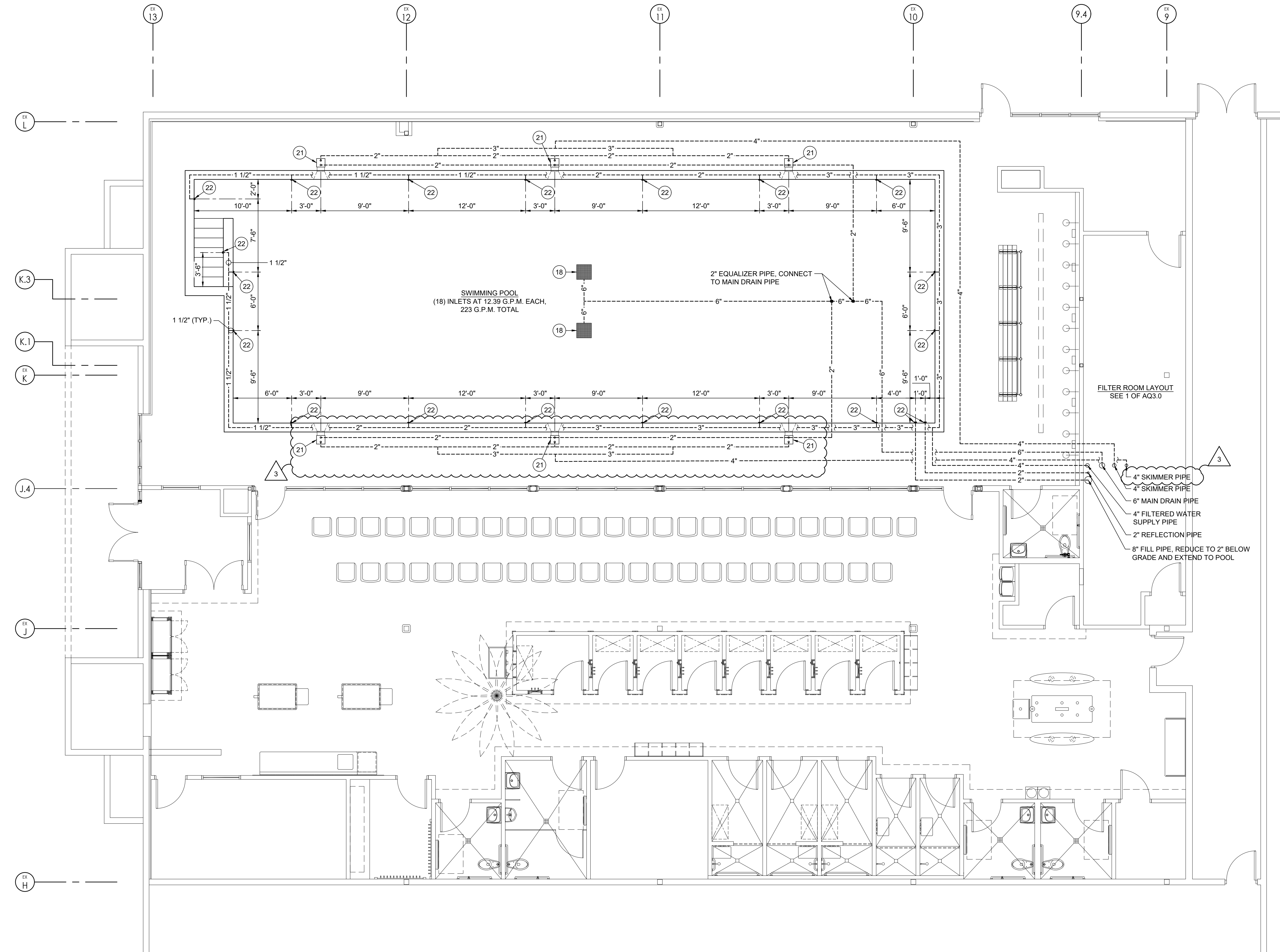
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 Dorchen/Martin Associates, Inc.  
 Architects/Planners  
 23895 Greenfield Rd., Suite 107  
 Southfield, Michigan 48076  
 (248) 557-1062  
 www.dorchenmartin.com

job number 22006 sheet number AQ3.3

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 2675 Pratum Avenue | Hoffman Estates, IL 60192  
 P: 224-293-6331 | F: 224-293-6444  
 wtengineering.com  
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NOTES:

1. SKIMMER PIPING CAN BE HORIZONTAL OR VERTICAL BEHIND POOL WALLS.
2. INLET SUPPLY PIPING SHALL BE INSTALLED OUTSIDE OF THE POOL END WALLS IF PIPING IS 3" OR LARGER.
3. THESE DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL PIPE LOCATIONS TO BE FIELD VERIFIED WITH ALL OTHER TRADES BY POOL CONTRACTOR. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS AS REQUIRED.



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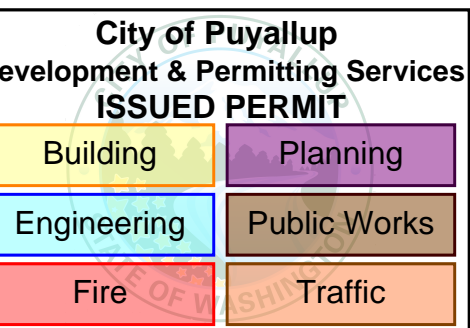
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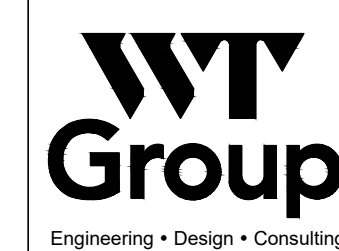
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