

# COPA MARINA-RESTROOM/ SHOP RENOVATIONS

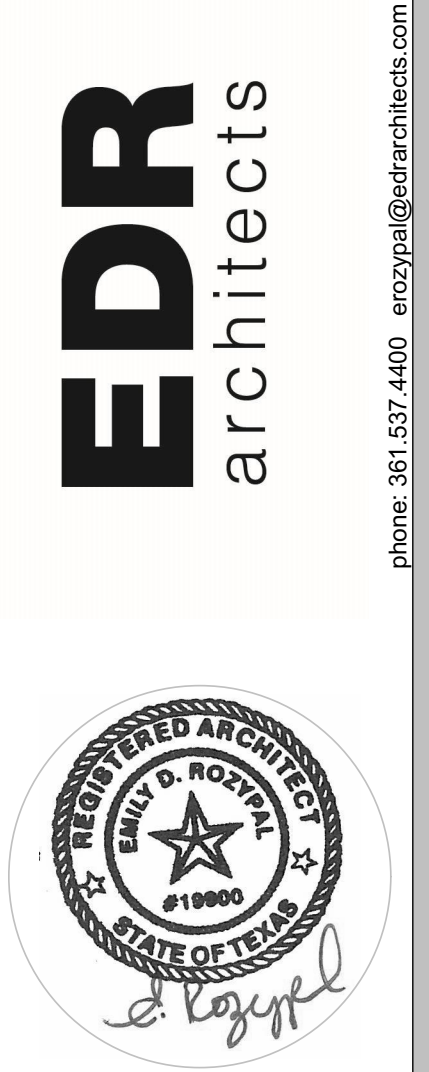
301 J.C. BARR BLVD., PORT ARANSAS, TX 78373

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P200	PLUMBING-SCHEDULES-IFC 04-25-23

Project Team:	
<b>Owner:</b>  <b>City of Port Aransas</b> 710 W. Avenue A Port Aransas, TX 78373 phone: 361.749.4111 Attn. David Parsons	<b>Architect:</b>  <b>EDR Architects, PLLC</b> PO Box 271613 Corpus Christi, TX 78427 phone: 361.537.4400 Attn. Emily D. Rozypal, AIA
<b>Structural &amp; Windstorm:</b>  <b>REM Engineering</b> REM Engineering 6800 Park Ten Blvd., Suite 239E San Antonio, Texas 78213 (210) 320-1199 (office) Attn. Robert Martinez, P.E.	<b>MEP:</b>  <b>NRG Engineering</b> 5656 S. Staples, Ste. 360 Corpus Christi, TX 78411 phone: 361.852.2727 fax: 361.852.2922 Attn. Mr. John Rodriguez, P.E.
<b>Civil:</b>  <b>Urban Engineering</b> 2725 Swantner Dr. Corpus Christi, TX 78404 phone: 361.854.3101 fax:361.854.6001 Attn. Mr. Murf Hudson, P.E.	

Symbol Legend:			
	Revision Tag		Door Tag
	Match Line		Wall Tag
	North Arrow		Detail/ Enlarged Plan Tag
	Elevation Marker		Objects above or Hidden
	Height Marker		
	Section Marker		
	Window Tag		

DESIGN CRITERIA / FACILITY DATA / CODE EVALUATION	
Site Address	301 J.C. Barr Blvd., Port Aransas, TX 78373, Nueces County
Applicable Building Codes	<b>2015 International Building Codes</b> The Building Inspection Division maintains and enforces the technical construction codes adopted by the <b>City of Port Aransas, TX</b> . The construction codes adopted by the City are the 2015 International Codes . These include The International Code Council (ICC), 2015 editions of the International Building Code, Existing Building Code, Energy Conservation Code, Fuel Gas Code, Mechanical Code, Plumbing Code, and Residential Code for One- and Two-Family Dwellings and the National Fire Prevention Association (NFPA) and National Electric Code.
Applicable Energy Code	2015 IECC <b>Insulation Materials and R-Values:</b> Not Applicable (Non-conditioned renovation only) <b>Fenestration U Factors and SHGC's:</b> Not Applicable (Non-conditioned renovation only)
Applicable Windstorm Requirements	Seaward; Refer to Structural for Windspeed  Submit P.E. Sealed shop drawings: All exterior windows and doors must comply with and be installed in accordance with ASTM E1886, ASTM E1996 and Texas Department of Insurance Windstorm Requirements.
Applicable TDLR/ADA Code	2012 Texas Accessibility Standards
Site Zone	Refer to Owner
Property Description	Refer to Owner
Building Area	Actual: 1,337 (Restroom: 541 sq.ft.; Shop: 796 sq.ft.)
Building Stories	Actual: 1 Story (Existing)
Building Height	Existing
Fire Sprinkler	NO
Construction Classification	Type IIB (NS)
Separation Requirements	None Required
Occupancy Type	Business, Group B (100 Gross)
Occupant Load	<b>Total Occupant Load: 13.37 Occupants Max</b> (1,337/100=13.37)
Plumbing Fixture Count	Men: WC's: 4 Provided; Lav's: 2 Provided Women: WC's: 3 Provided; Lav's: 2 Provided
Distance From Property Lines	Plan North: >30' Plan South: >30' Plan East: >30' Plan West: >30'
Parking Requirements	Existing, No Change



Project Name:  
COPA-MARINA  
RESTROOM/SHOP  
RENOVATIONS

Project Address:  
301 J.C. Barr Blvd, Port  
Aransas, TX 78373  
Nueces County

COVER SHEET-IFC 04-25-23

Date:  
April 25, 2023

IFC-April 25, 2023

phone: 361.537.4400 erozypal@edrarchitects.com

Revision

Issue

Project Data

Sheet Title

G100





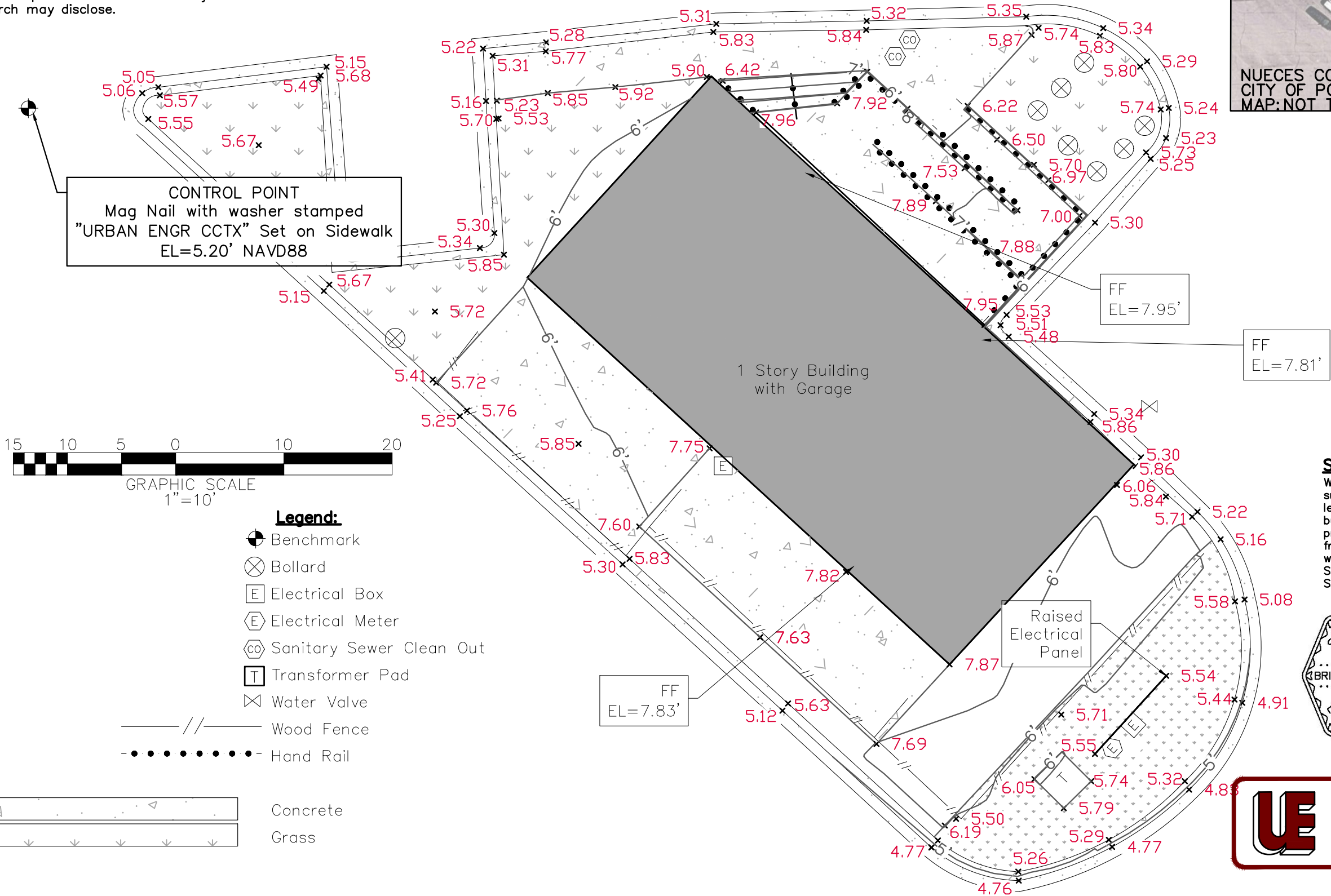
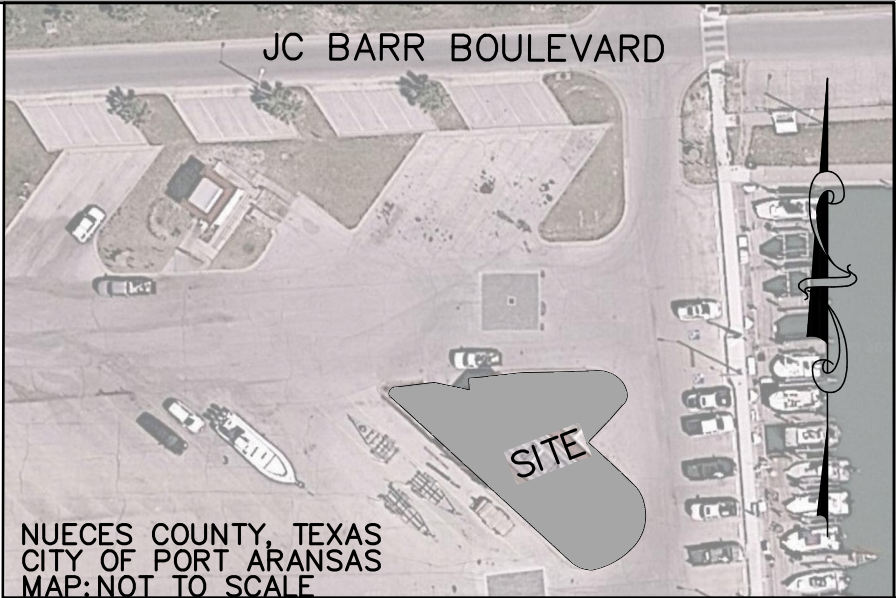


**Flood Note:**  
By graphic plotting only, this property is currently in Zone "AE"(EL 9) of the Flood Insurance Rate Map (FIRM), Community Panel Number 48355C0380G, Nueces County, Texas, which bears an effective date of October 13, 2022 and is in a Special Flood Hazard Area. The FIRM Panel 48355C0380G is based on the North American Vertical Datum of 1988 (NAVD88).

**Note:**  
THIS TOPOGRAPHIC MAP WAS PREPARED FOR DESIGN PURPOSES ONLY.

This map was prepared without the benefit of a current title commitment. The surveyor has made no investigation or independent search for easements of record, encumbrances, restrictive covenants, ownership of title evidence or any other facts that an accurate title search may disclose.

- General Notes:**
1. Elevations shown hereon are referenced to the North American Vertical Datum of 1988 (NAVD88), Geoid 12A.
  2. Some features shown on this Survey may be out of scale for clarity.
  3. This Survey was prepared from field data obtained on Feb. 06, 2023.
  4. This is NOT a Boundary Survey.

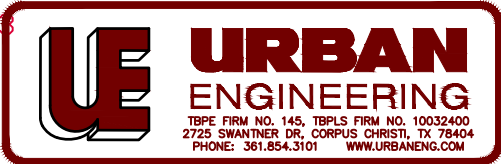


**Topographic Survey**

**Surveyor's Certificate:**  
We, Urban Engineering, have made an on the ground field survey, under my direction and supervision, of the property legally described hereon; observable, aboveground evidence of buildings, structures and other improvements situated on the premises have been shown; said property has access to and from a dedicated roadway. This Survey substantially complies with the current Texas Society of Professional Surveyors Standards and Specifications for a Category 6, Topographic Survey.



URBAN ENGINEERING  
*Brian D. Lorentson*  
Brian D. Lorentson, R.P.L.S.  
License No. 6839



DATE: Feb. 17, 2023  
SCALE: 1"=10'  
JOB NO.: 6100.C3.04  
SHEET: 1 OF 1  
DRAWN BY: JAB  
urbansurvey1@urbaneng.com  
©2023 by Urban Engineering



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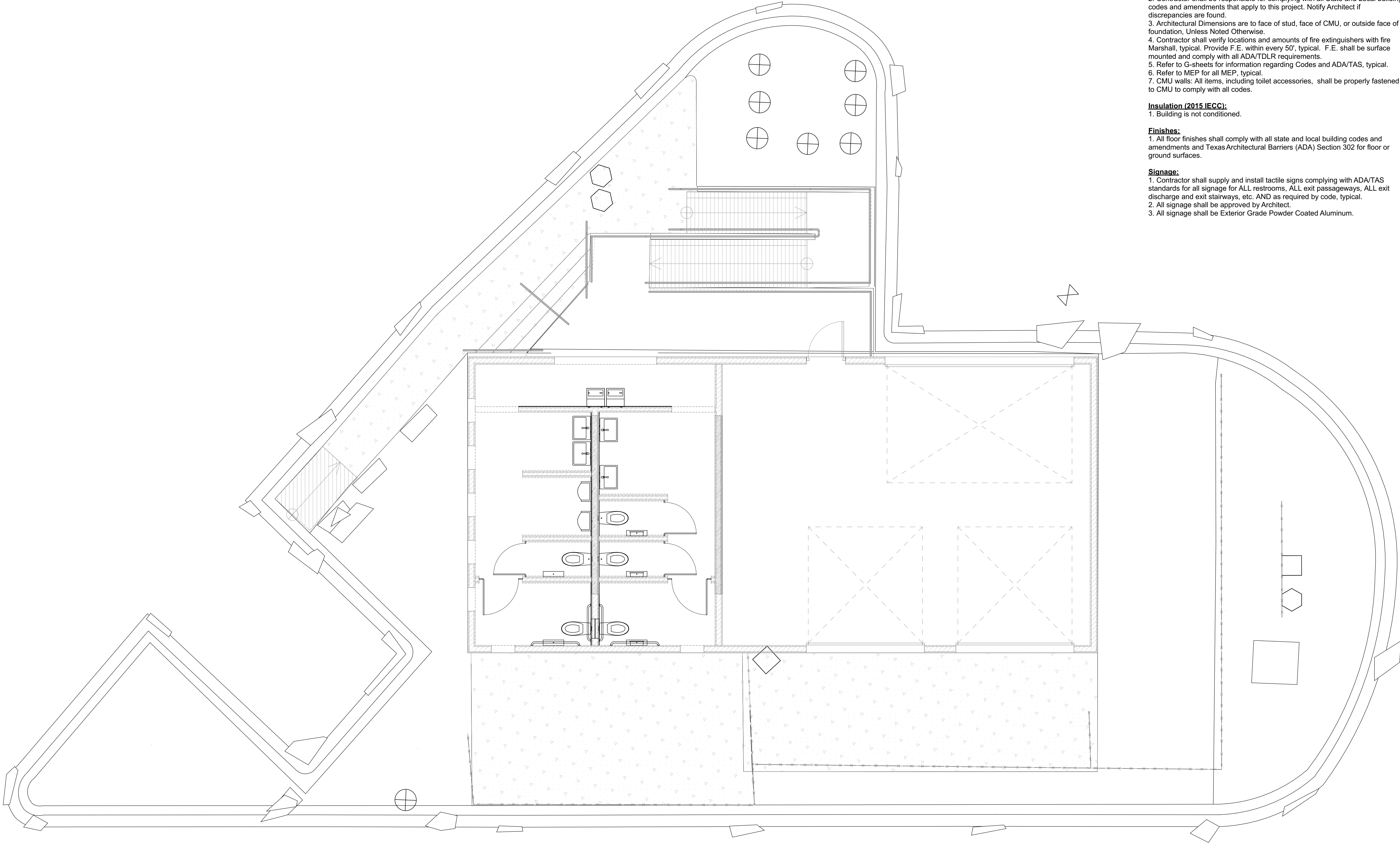
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A1



# ARCHITECTURAL-SCHEMATIC SITE PLAN

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



## ARCHITECTURAL GENERAL NOTES:

1. Contractor shall field verify all dimensions and notify Architect if discrepancies are found.
2. Contractor shall be responsible for complying with all State and Local building codes and amendments that apply to this project. Notify Architect if discrepancies are found.
3. Architectural Dimensions are to face of stud, face of CMU, or outside face of foundation, Unless Noted Otherwise.
4. Contractor shall verify locations and amounts of fire extinguishers with fire Marshall, typical. Provide F.E. within every 50', typical. F.E. shall be surface mounted and comply with all ADA/TDLR requirements.
5. Refer to G-sheets for information regarding Codes and ADA/TAS, typical.
6. Refer to MEP for all MEP, typical.
7. CMU walls: All items, including toilet accessories, shall be properly fastened to CMU to comply with all codes.

## Insulation (2015 IECC):

1. Building is not conditioned.

## Finishes:

1. All floor finishes shall comply with all state and local building codes and amendments and Texas Architectural Barriers (ADA) Section 302 for floor or ground surfaces.

## Signage:

1. Contractor shall supply and install tactile signs complying with ADA/TAS standards for all signage for ALL restrooms, ALL exit passageways, ALL exit discharge and exit stairways, etc. AND as required by code, typical.
2. All signage shall be approved by Architect.
3. All signage shall be Exterior Grade Powder Coated Aluminum.



Project Address:  
301 J.C. Barr Blvd. Port  
Aransas TX 78373  
Nueces County

Date:  
April 25, 2023

Issue  
1 IFC-April 25, 2023

Project Name:  
COPA-MARINA  
RESTROOM/SHOP  
RENOVATIONS

Project No:  
23006

ARCHITECTURAL-SCHEMATIC  
SITE-IFC 04-25-23

A100

phone: 361.537.4400 erozypal@edrachitects.com

Revision

Issue

Project Data

Sheet Title



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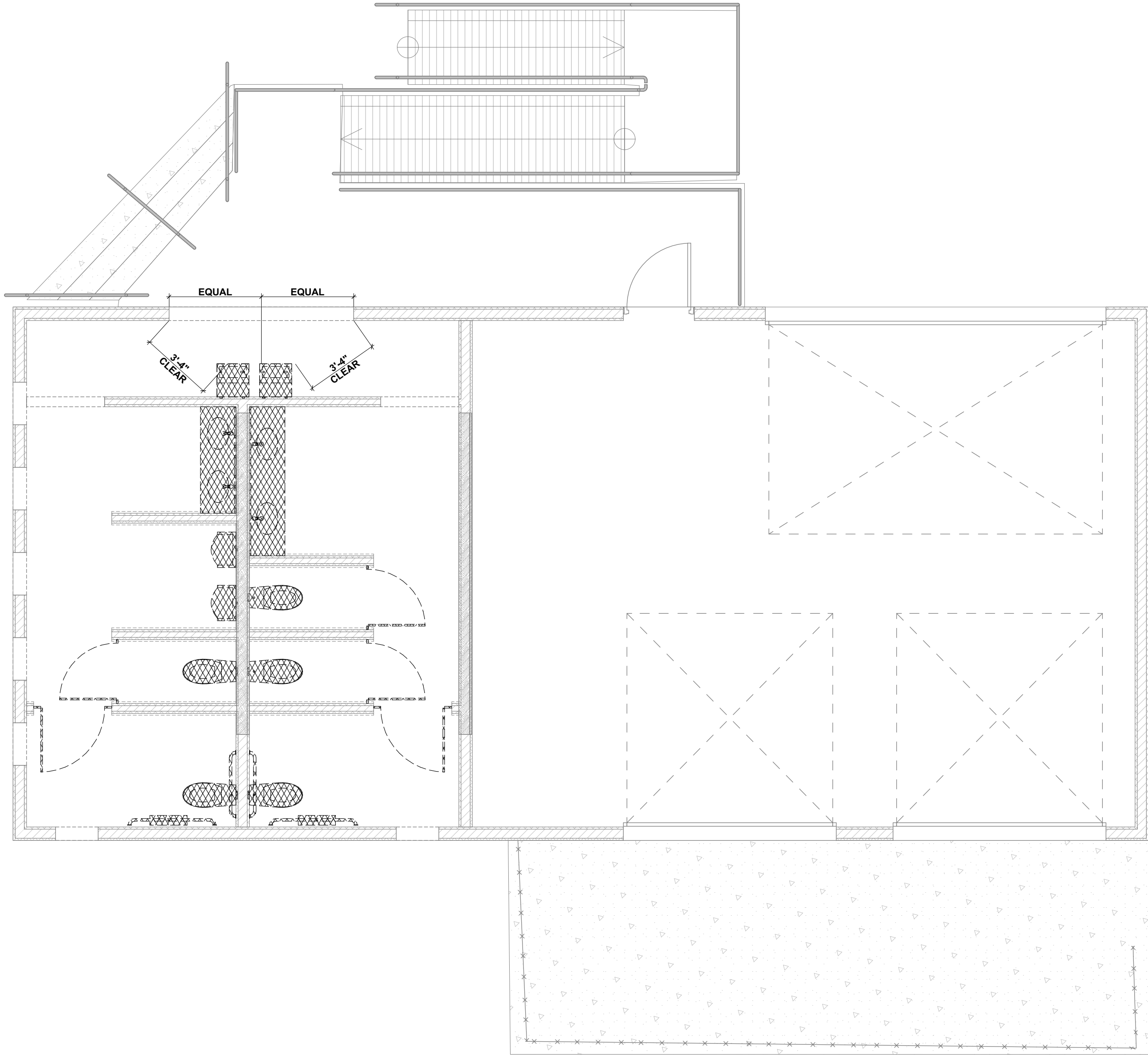
- DEMOLITION GENERAL NOTES:**
1. Contractor shall field verify all dimensions and notify Architect if discrepancies are found.
  2. Contractor shall be responsible for complying with all State and Local building codes and amendments that apply to this project. Notify Architect if discrepancies are found.
  3. Contractor shall coordinate all utilities, including, but not limited to: gas, water, sewer, storm, and electrical with appropriate authorities for the disconnection of the related utilities.
  4. Contractor shall provide Security fencing around complete area of demolition/ construction. Coordinate with the City.
  5. Contractor shall dispose of all construction debris as required by law.
  6. Contractor shall maintain site during demolition/ construction and leave utilities, site and facilities clean, neat and safe at all times.
  7. Refer to MEP for all MEP, typical.

B1

## DEMOLITION PLAN

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

### Plan North



D

C

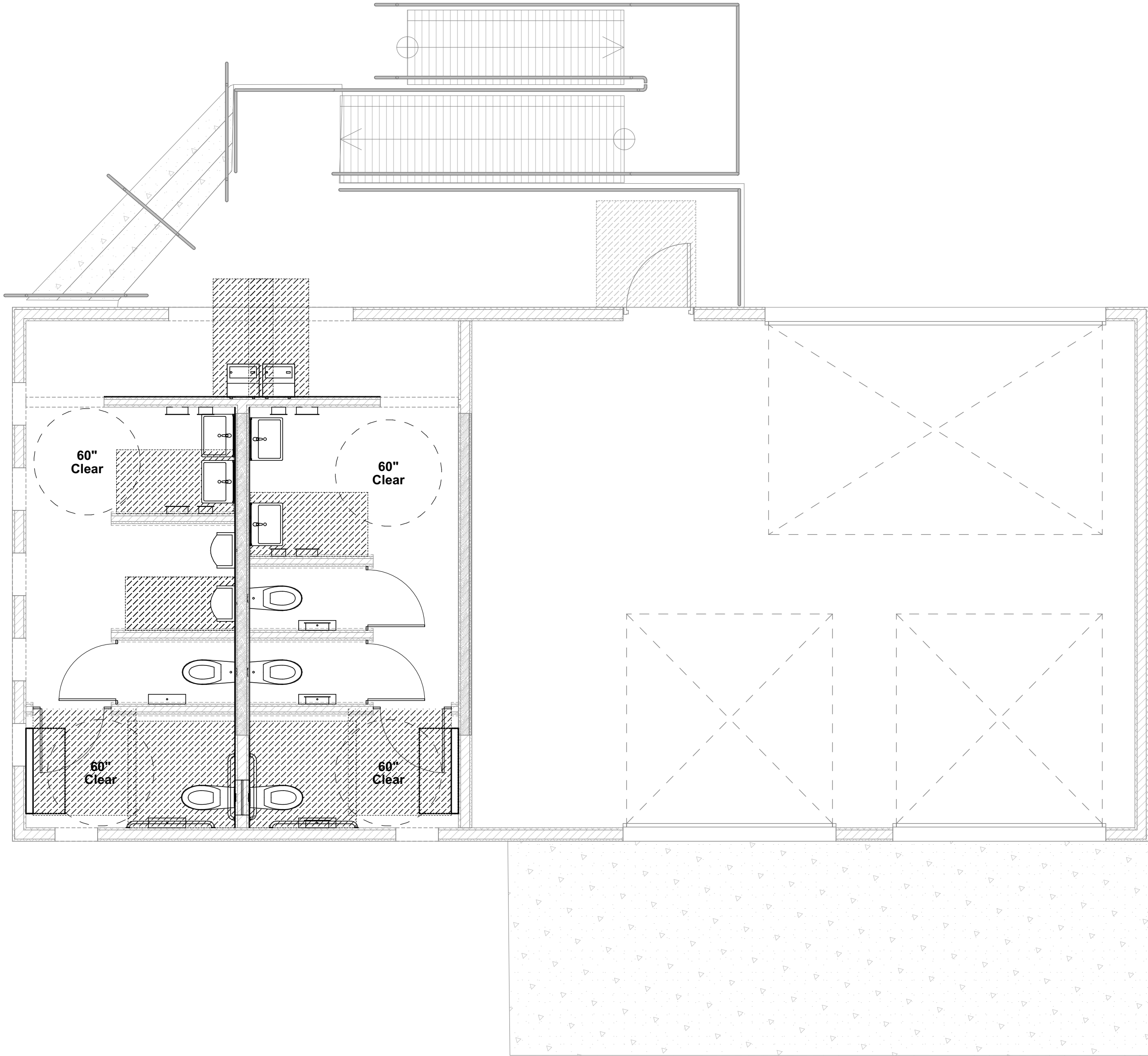
B

B3

## ACCESSIBLE PLAN

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

### Plan North



A200

ARCHITECTURAL-PLANS I-IFC  
04-25-23

Project Name:  
COPA-MARINA  
RESTROOM-SHOP  
RENOVATIONS

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Aransas TX 78373  
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Project No:  
23006

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1 IFC-April 25, 2023

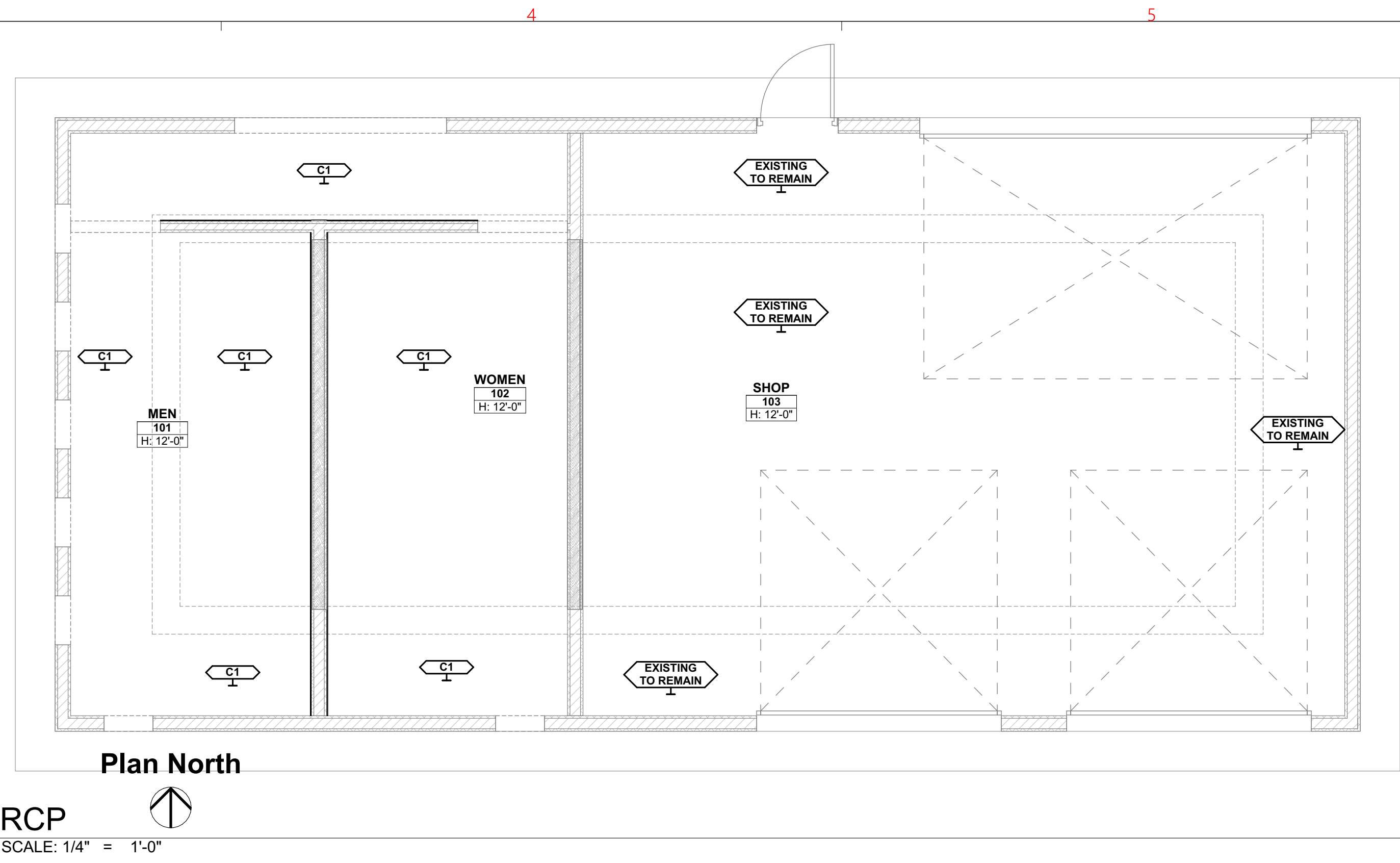
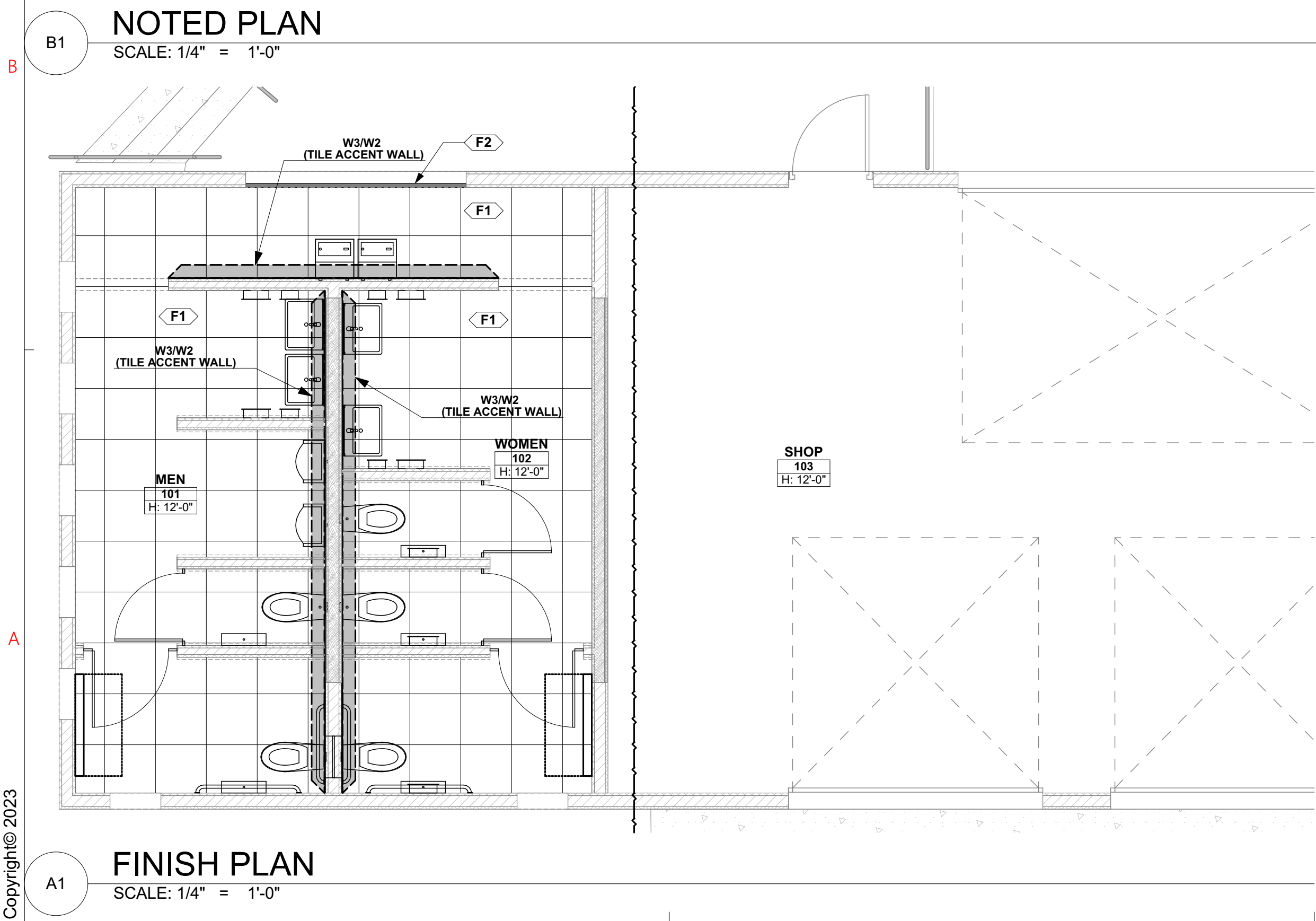
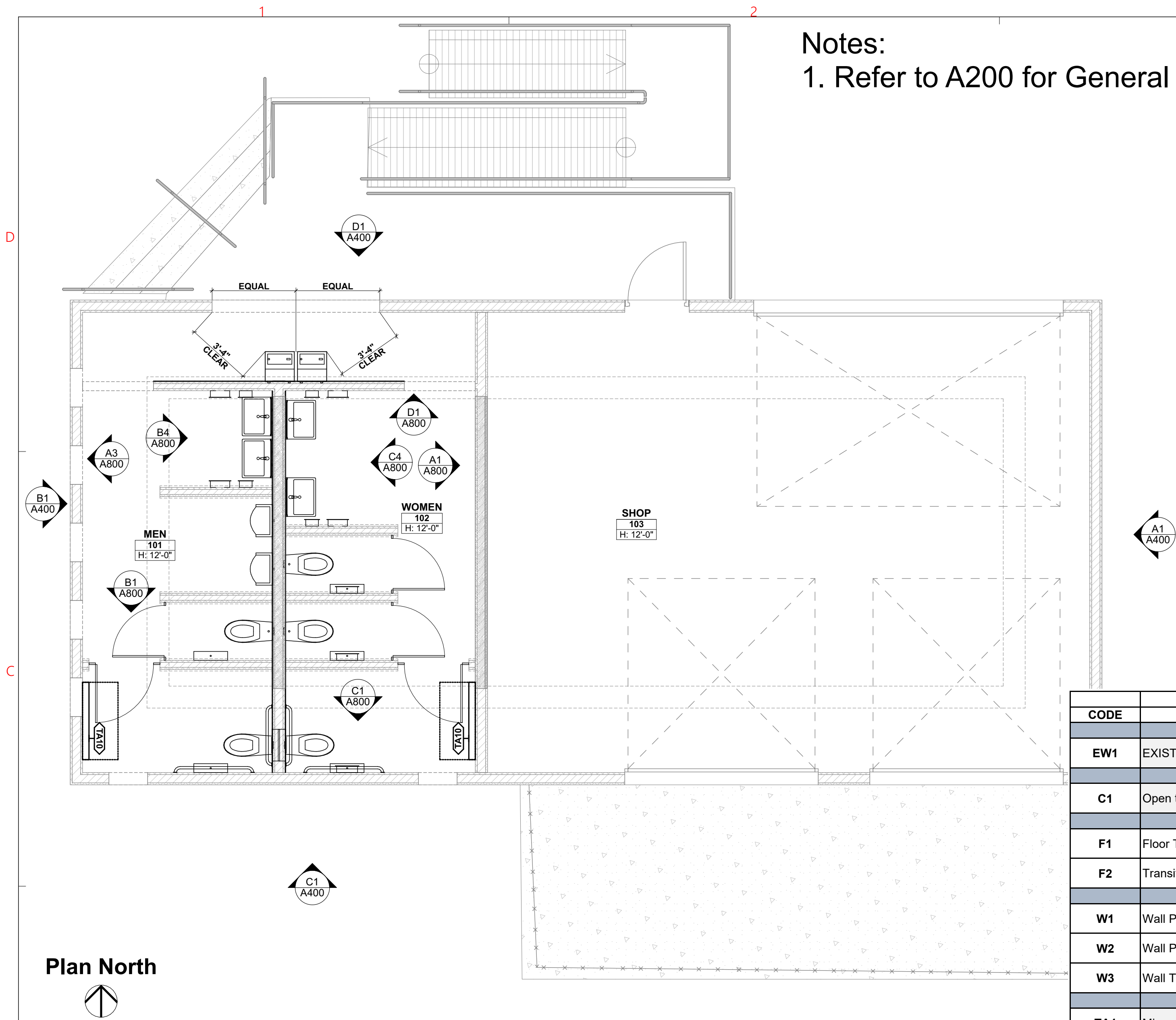


**EDR**  
architects

phone: 361.537.4400 erozynka@edrachitects.com



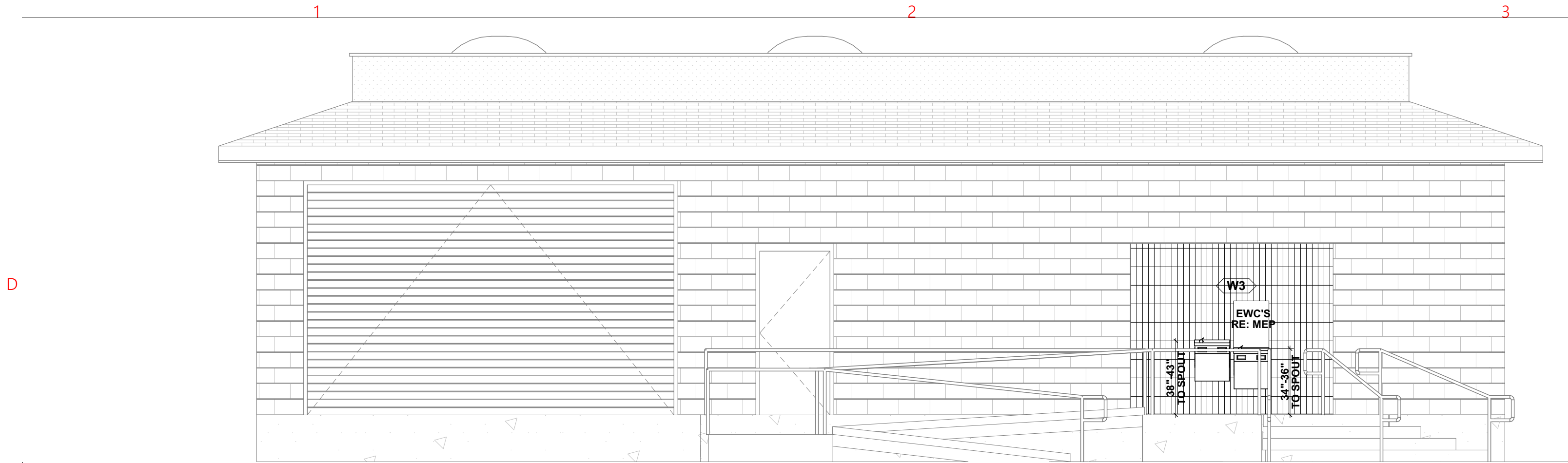
Notes:  
1. Refer to A200 for General Notes.



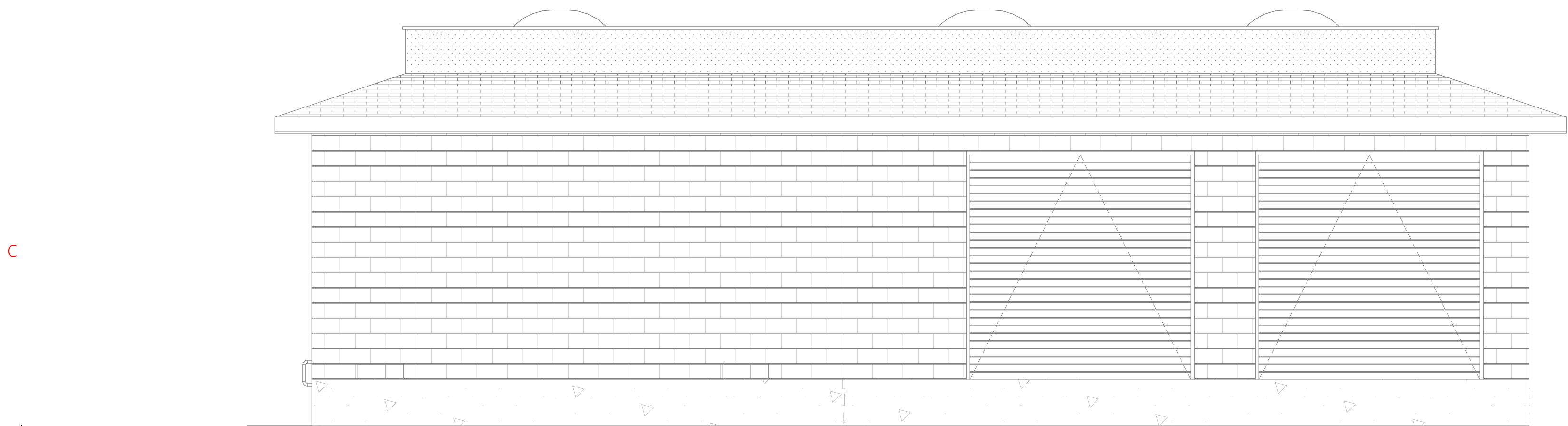
ARCHITECTURAL FINISH SCHEDULE			Date:	4/25/2023	
CODE	MATERIAL	MANUFACTURER AND PRODUCT INFORMATION	COLOR	DIMENSIONS	APPLICATION NOTES
EW1	EXISTING CMU	Repaint interior side of exterior walls, U.N.O.	Color: TBD		Install per manufacturer's recommendations for full system warranties for Block and Paint.
C1	Open to Structure	Repaint all interior structure.	Color: TBD		Install per manufacturer's recommendations for full system warranty.
F1	Floor Tile	DALTILE; Outlander Series with STEPWISE Technology; 24"x24"; ADA compliant Schluter Floor Transition; Epoxy Grout	Color: GRANDE Design; "Marine" OU55		Install per manufacturer's recommendations for full system warranty.
F2	Transition Strip	ADA compliant Schluter Floor Transition Strip	Color: Anodized Aluminum		Install per manufacturer's recommendations for full system warranty.
W1	Wall Paint	Epoxy Paint, Prime and paint two finish coats	Color: TBD		Install per manufacturer's recommendations for full system warranty.
W2	Wall Paint (ACCENT)	Epoxy Paint, Prime and paint two finish coats	Color: TBD		Install per manufacturer's recommendations for full system warranty.
W3	Wall Tile	DALTILE; Remedy Series; 2 1/4"x9 1/2" Vertical Stack Pattern; Schluter Trim at all edges; Epoxy Grout	Color: "Hydro" RD22		Install per manufacturer's recommendations for full system warranty.
TA1	Mirror	ASI; 0600-41; Tamperproof Mounting & Locking; Tempered Glass; (Mount Reflective Surface at 40" a.f.f. Maximum)	MATTE BLACK POWDER COATED	Re: Interior Elevations	Install per manufacturer's recommendations. Locations: All Lavatory locations in All Restrooms.
TA2	Grab Bars	ASI; 3800-41; 1-1/2 inches outside diameter, concealed flange mounting, 1-1/2 inches clearance between wall and inside of grab bar.	MATTE BLACK POWDER COATED	Length: 36", 42" and 48" and additional as required to comply with TAS/ADA.	Install per manufacturer's recommendations. Locations: All Accessible Water Closet Locations in All Restrooms.
TA3	Paper Towel Dispenser	ASI; 0210-41 (or approved equal), Surface Mounted Paper Towel Dispenser (Mount Paper Towel Dispenser 48" max a.f.f.)	MATTE BLACK POWDER COATED		Install per manufacturer's recommendations. Locations: All Lavatory locations in All Restrooms.
TA4	Toilet Tissue Dispenser	ASI 0042-41 (or approved equal), Surface mounted jumbo-roll dispenser (Mount between 15" and 48"); Clear Grab Bar as required by TAS.	MATTE BLACK POWDER COATED		Install per manufacturer's recommendations. Locations: All Water Closet locations in All Restrooms.
TA5	Sanitary Napkin Disposal	ASI; 0852-41 (or approved equal), Surface mounted	MATTE BLACK POWDER COATED		Install per manufacturer's recommendations. Locations: All Water closet locations in all Women's restrooms and single user restrooms.
TA6	Soap Dispenser	ASI; 0340 (or approved equal); Surface mounted liquid and Antiseptic Soap Dispenser (Mount at 48" maximum a.f.f.)	Clear		Install per manufacturer's recommendations. Locations: All Lavatory locations in All Restrooms.
TA7	Waste Containers	Rubbermaid; Roughneck; Non-wheeled Trash Can; 32-Gallon	Color: Black		Install per manufacturer's recommendations. Locations: All Restrooms.
TA8	Towel Pin/Hook	ASI; 7340-41 (or approved equal)	MATTE BLACK POWDER COATED		Install per manufacturer's recommendations. Locations: All Water Closet stall locations in All Restrooms.
TA9	Electric Hand Dryer	Re: MEP	MATTE BLACK POWDER COATED		Install per manufacturer's recommendations. Locations: Verify amount and locations with MEP.
TA10	Baby Changing Station (HDPE)	ASI; 9014 (or approved equal), Surface Mounted Horizontal Baby Changing station	Color: TBD		Install per manufacturer's recommendations. Locations: One per Restroom.
TA11	Plumbing Access Door	Coordinate size and location with Plumber. 316 Stainless Steel Fasteners and hardware. Power Coated to match adjacent wall.	Color: TBD		Install per manufacturer's recommendations. Locations: Verify amount and locations with MEP.
TP1	Toilet Partition Doors/System	ASI Accurate (or approved equal); Solid Plastic (HDPE); All hardware and accessories shall be 316 stainless steel. Continuous Piano Hinges (spring loaded); No-Sight Privacy Strips, Surface Mounted Slides. Coat Hook and Bumper. Submit Hardware to Architect for approval. Between CMU Wall Installation.	Color: TBD		Install per manufacturer's recommendations for full system warranty. Include all trim and accessories.

Room Finish Schedule												
Room Number	Room Name	Ceiling		Wall					Floor	Millwork		Notes
		Material	Height	Plan N	Plan S	Plan E	Plan W	Base		Counter	Millwork Finish	
101	MEN	C1 (Exposed to Structure-REPAINT ALL)	12'-0"	W1	W1	W3/W2	W1	-	F1/F2	-	-	TA1, TA2, TA3, TA4, TA6, TA7, TA8, TA9, TA10, TA11, TP1
102	WOMEN	C1 (Exposed to Structure-REPAINT ALL)	12'-0"	W1	W1	W1	W3/W2	-	F1/F2	-	-	TA1, TA2, TA3, TA4, TA5, TA6, TA7, TA8, TA9, TA10, TA11, TP1
103	SHOP	EXISTING TO REMAIN	12'-0"	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING	EXISTING	-	-	EXISTING TO REMAIN-NO WORK IN THIS ROOM





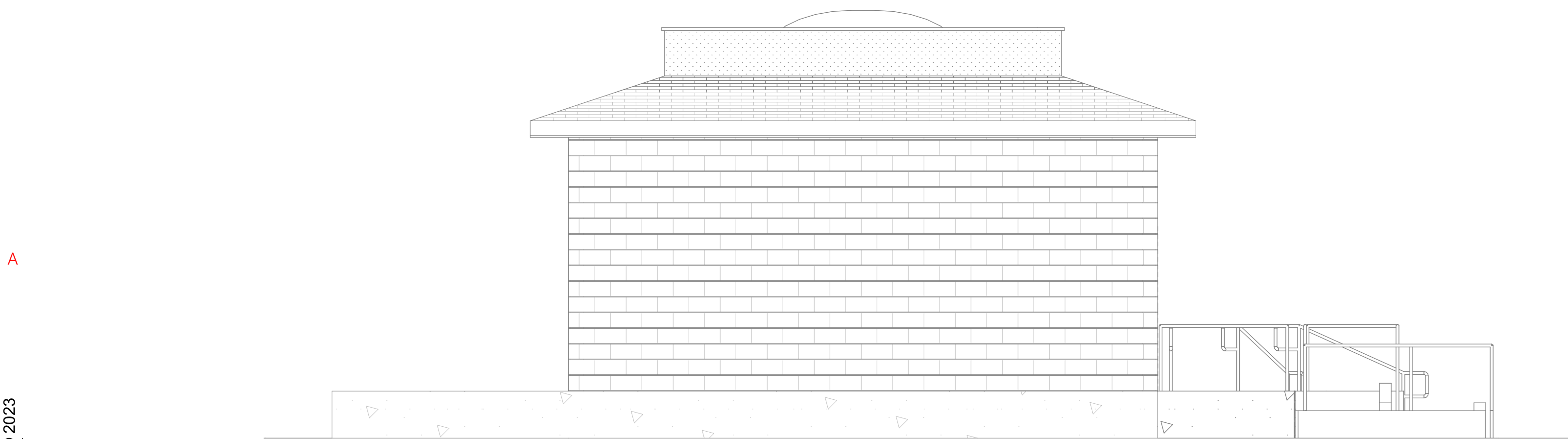
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SCALE: 1/4" = 1'-0"



C1 ELEVATION-PLAN SOUTH  
SCALE: 1/4" = 1'-0"



B1 ELEVATION-PLAN WEST  
SCALE: 1/4" = 1'-0"



A1 ELEVATION-PLAN EAST  
SCALE: 1/4" = 1'-0"

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Aransas TX 78373  
Nueces County

Date:  
April 25, 2023

Project Name:  
COPA-MARINA  
RESTROOM/SHOP  
RENOVATIONS

Project No:  
23006

ARCHITECTURAL-EXTERIOR  
ELEVATIONS I-IFC 04-25-23

A400

Issue  
1  
IFC-April 25, 2023

Revision

Project Data

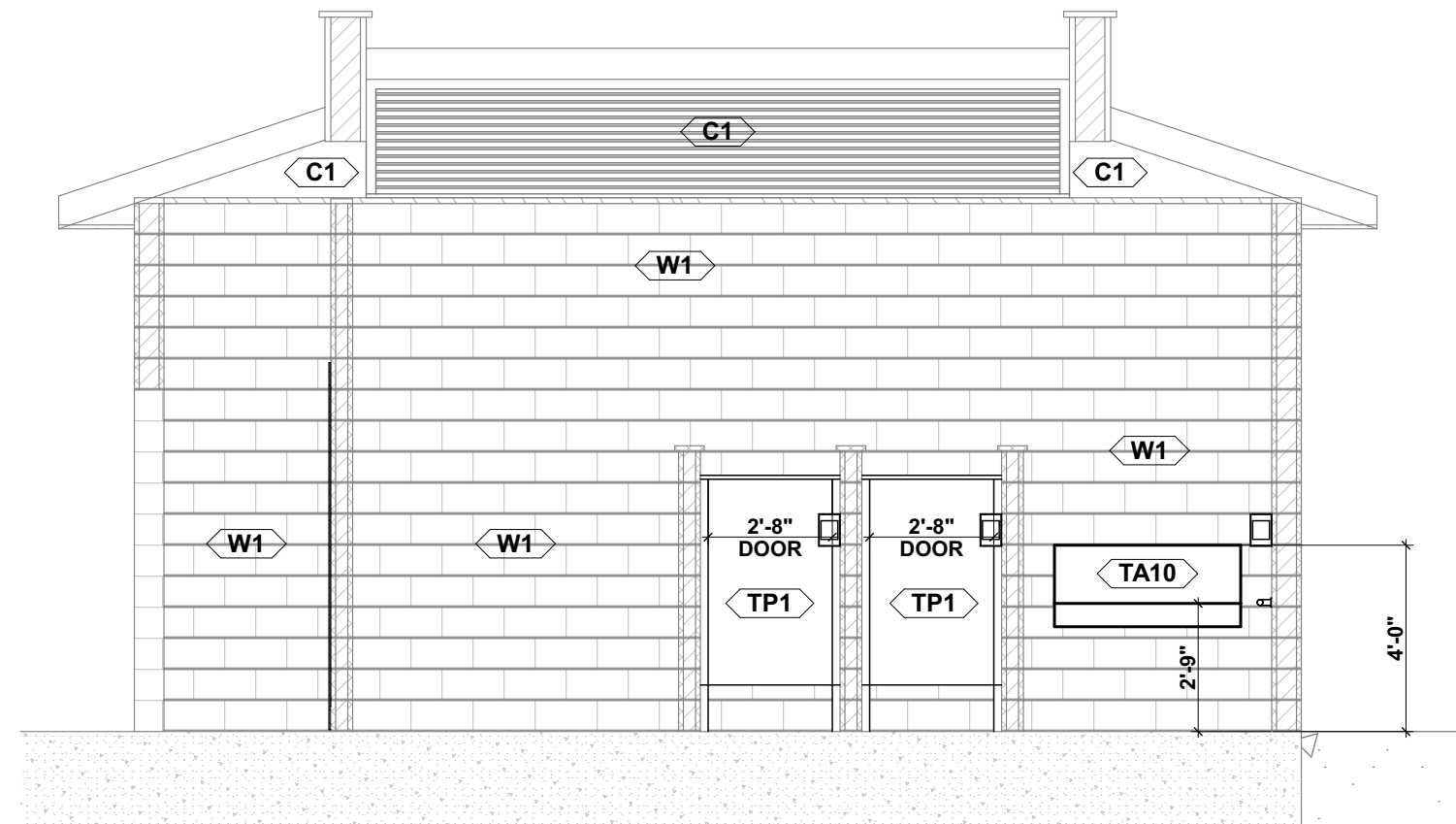
Sheet Title

phone: 361.537.4400 erczygal@edrarchitects.com

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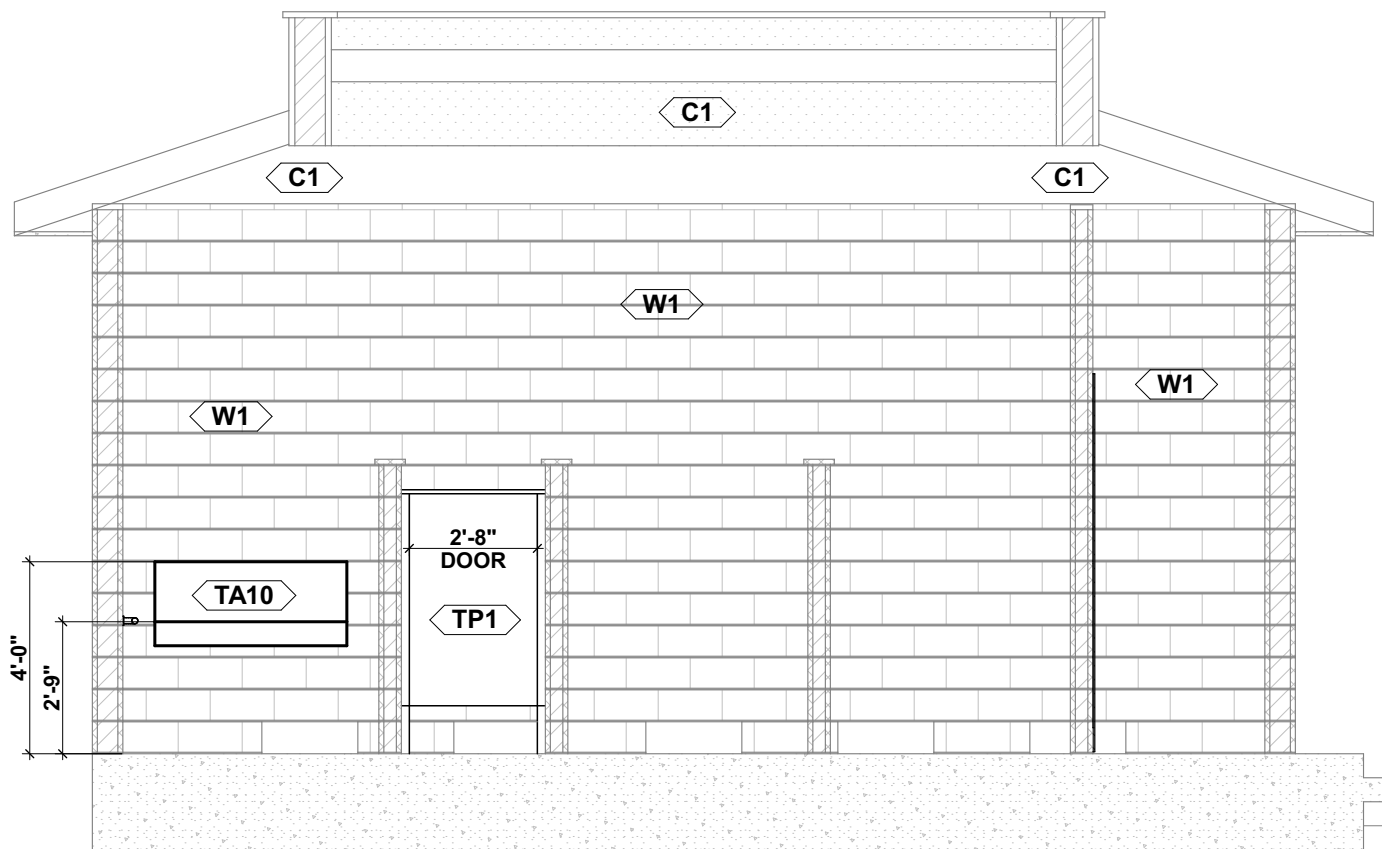
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A1

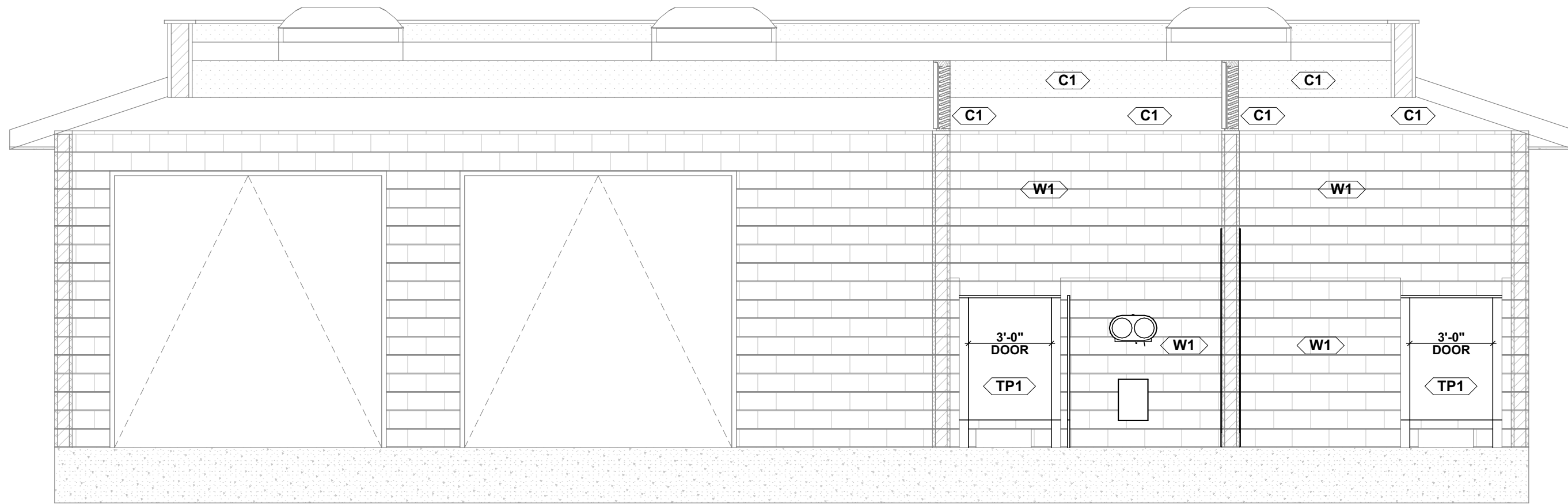
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SCALE: 1/4" = 1'-0"

A3



INT. ELEV.-MDP  
SCALE: 1/4" = 1'-0"

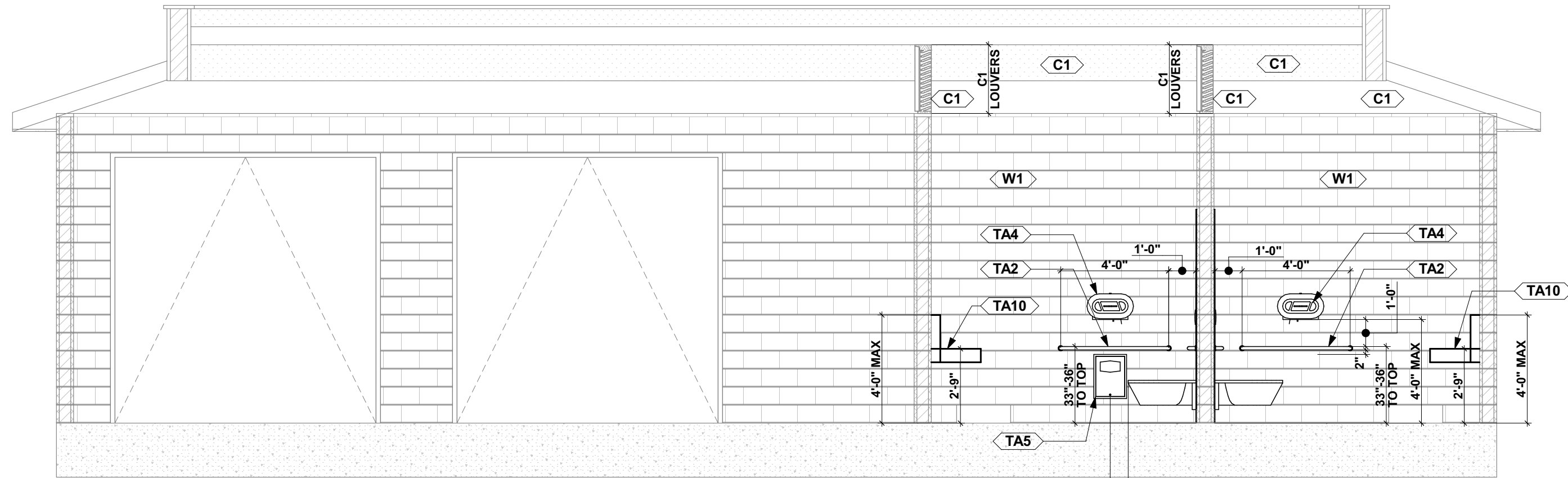
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B1

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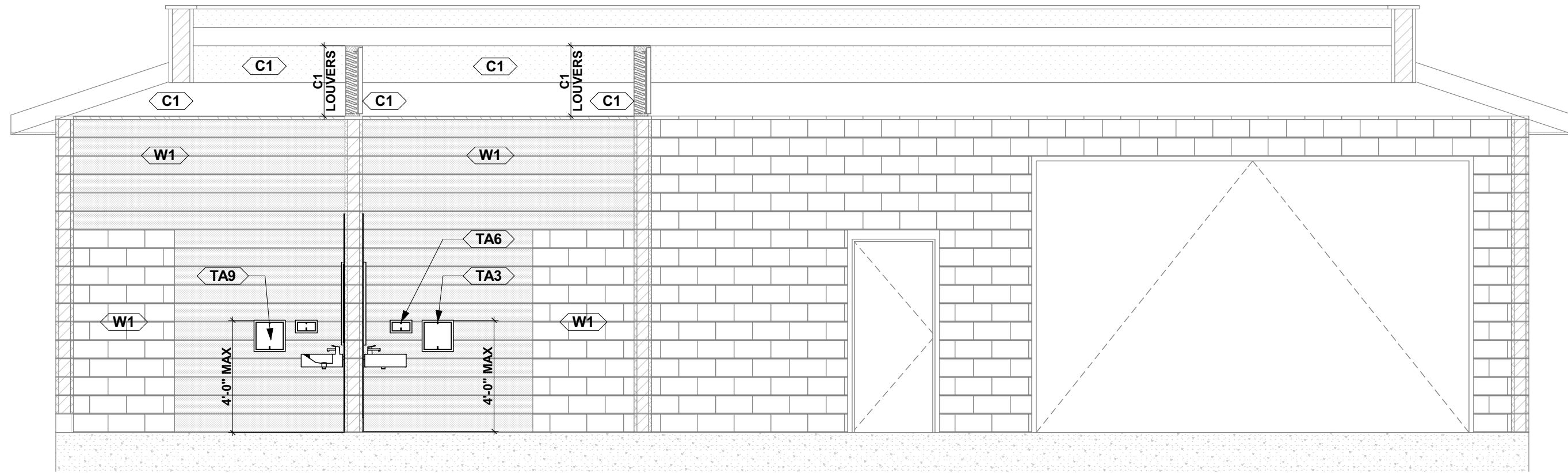
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C1

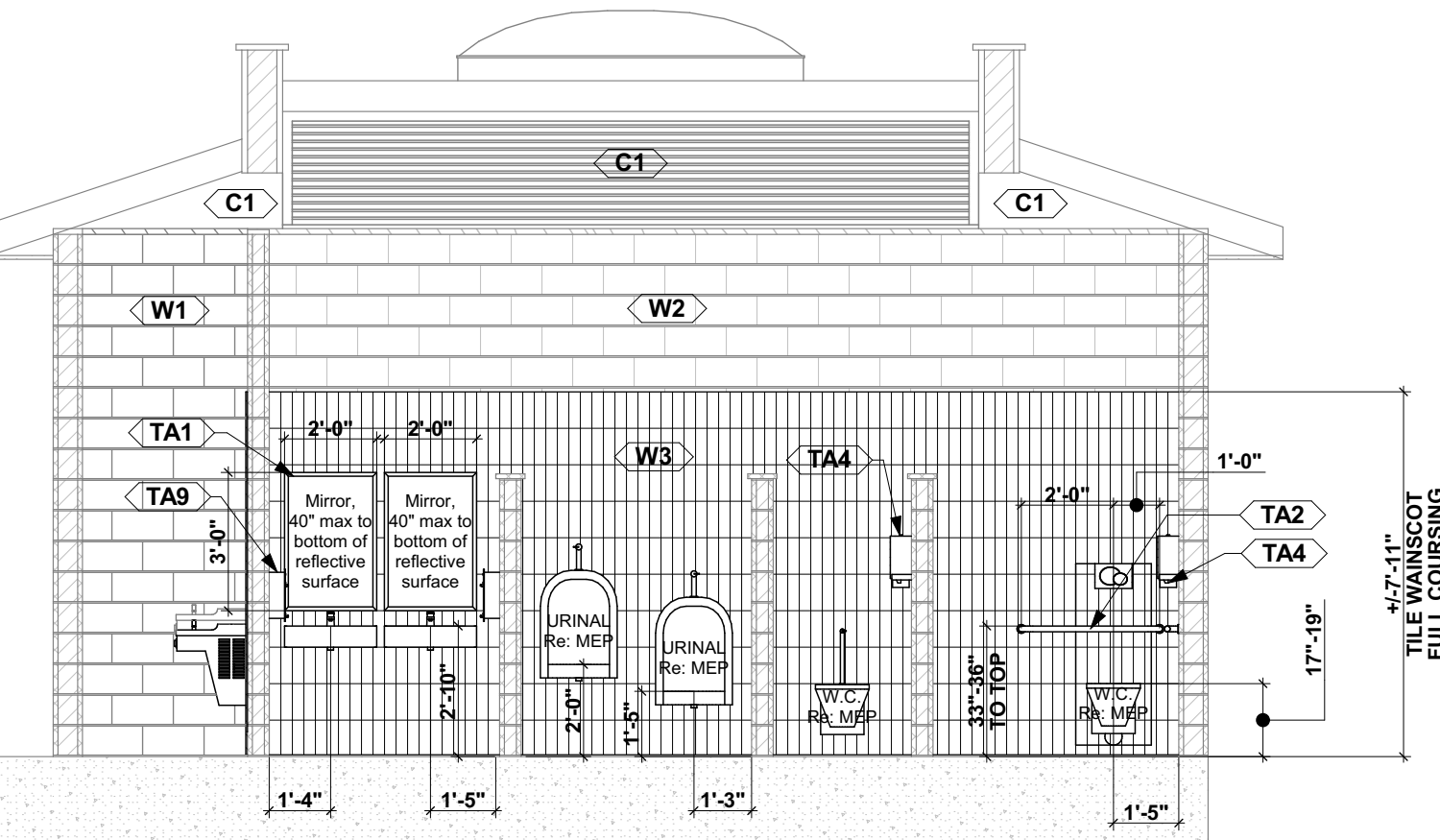
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SCALE: 1/4" = 1'-0"

D



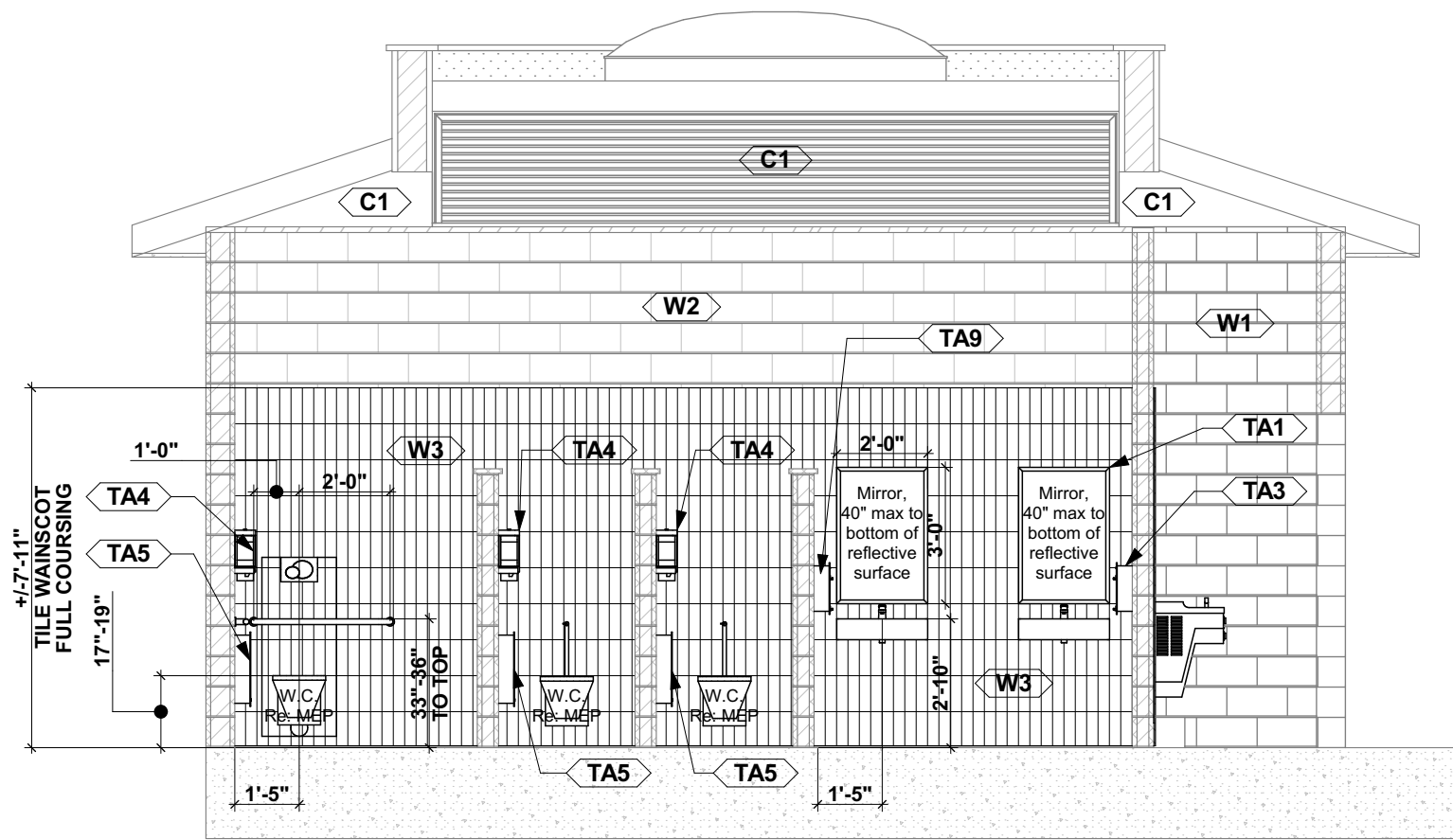
D1

INT. ELEV.-MEN TO SHOP  
SCALE: 1/4" = 1'-0"



B4

INT. ELEV.-URINALS  
SCALE: 1/4" = 1'-0"



C4

INT. ELEV.-WOMEN LAV  
SCALE: 1/4" = 1'-0"

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ARCHITECTURAL-INTERIOR  
ELEVATIONS-IFC 04-25-23

A800

Project No:  
23006

Date:  
April 25, 2023

Issue  
1  
IFC-April 25, 2023

Sheet Title

Revision

phone: 361.537.4400 erozayal@edrachitects.com

EDR  
architects



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Apr 20, 2023 - 10:13am  
23028\_Elec.dwg

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D

C

B

A

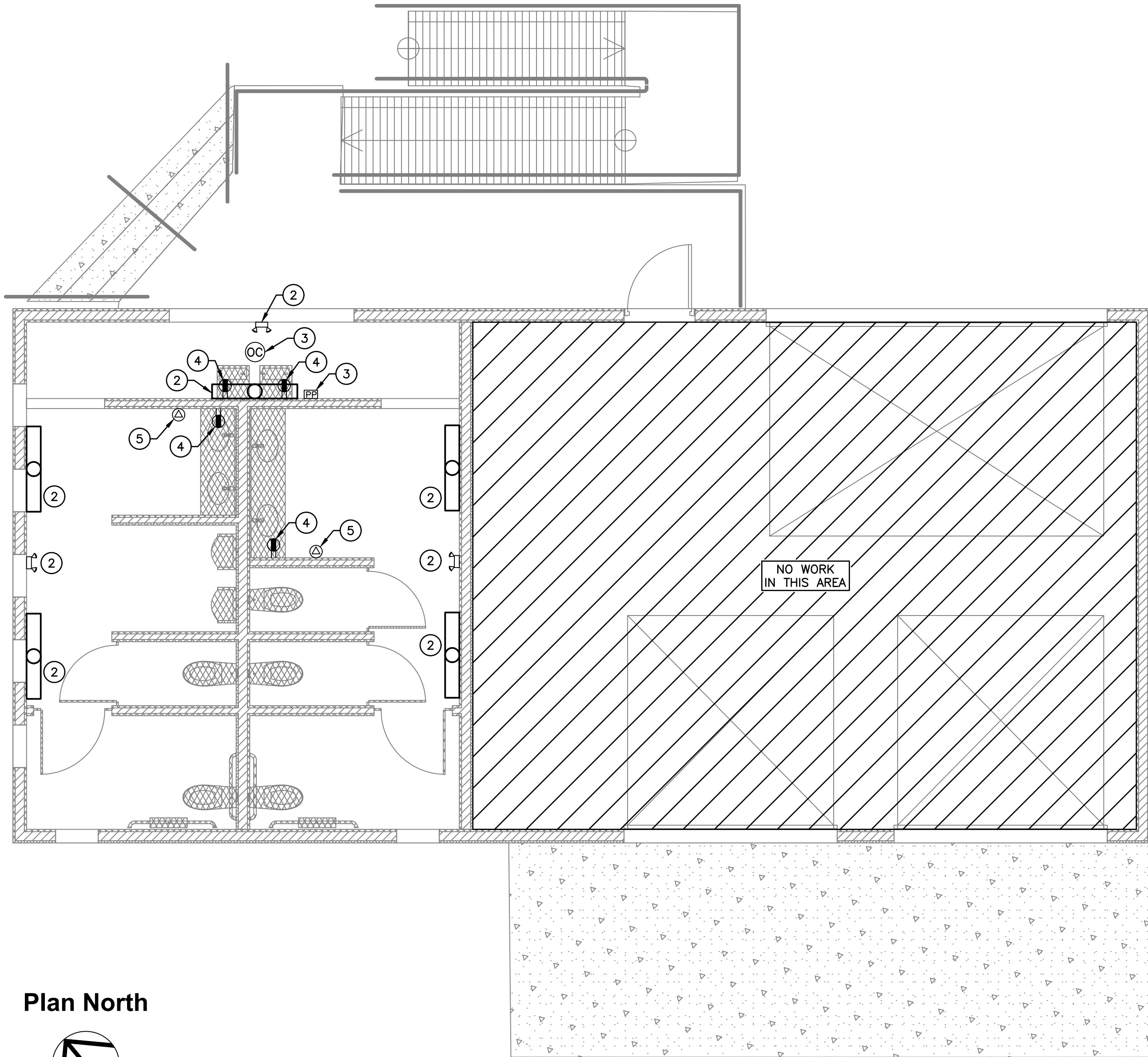
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2

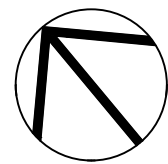
3

4

5



Plan North



A2

## ELECTRICAL DEMOLITION PLAN

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

### DEMOLITION GENERAL NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD SO HE OR SHE WILL HAVE OBTAINED THE SCOPE OF WORK; THE ELECTRICAL WORK SHALL INCLUDE MATERIALS AND OUTLETS, CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS. NOT ALL EXISTING OUTLETS ARE NECESSARILY INDICATED ON THE DRAWINGS.
- WHEN OUTLETS ARE REMOVED, CONDUIT AND WIRE SHALL BE REMOVED BACK TO THE NEAREST REMAINING ACTIVE J-BOX OR PANEL.
- RECONNECT ALL LIGHTS THAT MAY HAVE BEEN INTERRUPTED BECAUSE OF REMODELING WORK.
- PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE, OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.
- VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
- REMOVE ALL OUTLETS AND WIRING ASSOCIATED WITH ALL EQUIPMENT BEING REMOVED, INCLUDING MECHANICAL AND PLUMBING EQUIPMENT.

NOT ALL DEVICES, EQUIPMENT AND LIGHTING IS INDICATED. CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND INCLUDE IN HIS OR HER BID A FULL DEMOLITION SCOPE OF WORK.

### DEMOLITION PLAN KEYNOTES:

- CONTRACTOR SHALL FIELD VERIFY IF EXISTING LIGHT FIXTURE IS IN WORKING CONDITION. EXISTING EXTERIOR STEP LIGHT TO REMAIN IF IN WORKING CONDITION. IF NOT, FIXTURE SHALL BE REMOVED AND REPLACED. REFERENCE ELECTRICAL FLOOR PLAN AND LIGHTING SCHEDULE ON SHEET E200 FOR ADDITIONAL INFORMATION.
- EXISTING LIGHT FIXTURES/EMERGENCY FIXTURES TO BE REMOVED AND REPLACED. MAINTAIN EXISTING CIRCUIT. REFERENCE ELECTRICAL FLOOR PLAN AND LIGHTING SCHEDULE ON SHEET E200 FOR ADDITIONAL INFORMATION.
- EXISTING MOTION SENSOR AND POWER PACK TO BE REMOVED AND REPLACED. REFERENCE ELECTRICAL FLOOR PLAN ON SHEET E200 FOR ADDITIONAL INFORMATION.
- EXISTING RECEPTACLES TO BE REMOVED AND REPLACED WITH NEW RECEPTACLE. MAINTAIN EXISTING CIRCUIT. REFERENCE ELECTRICAL FLOOR PLAN ON SHEET E200 FOR ADDITIONAL INFORMATION.
- EXISTING HAND DRYERS TO BE REMOVED AND REPLACED. MAINTAIN EXISTING 120V CIRCUIT AND CONNECTION. REFERENCE ELECTRICAL FLOOR PLAN ON SHEET E200 FOR ADDITIONAL INFORMATION.

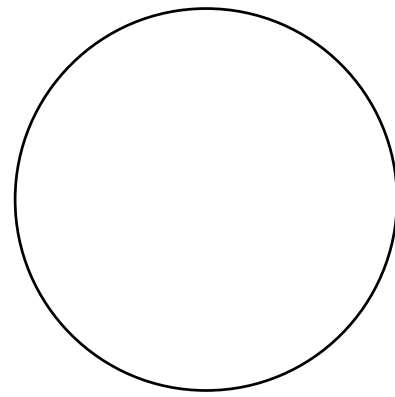
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5556 S. Shoppes, Suite 312  
Corpus Christi, TX 78413  
P: (361)852-2727 F: (361)852-2922  
Texas Firm Registration No. F-005318

23028

**EDR**  
architects



Project Address:  
301 J.C. Barr Blvd.  
Port Aransas TX 78373  
Nueces County

Project Name:  
COPA-MARINA  
RESTROOM/SHOP  
RENOVATIONS  
Project No:  
23006

April 25, 2023

ELECTRICAL  
DEMOLITION  
PLAN

**E100**

phone: 361.537.4400 email: edr@edrarchitects.com

PROJECT

REVISION

PROJECT LOG

PROJECT LOG







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B

C

D

ELECTRICAL LEGEND		
NOTE: NOT ALL SYMBOLS MAY APPLY TO THIS JOB!		
SYMBOL	DESCRIPTION	
B-2	HOMERUN TO CIRCUIT AND PANEL INDICATED	
+	NEUTRAL CONDUCTOR	
+	HOT CONDUCTOR	
+	GROUNDING CONDUCTOR	
+	TRAVELER	
+	SWITCH LEG	
\$	TOGGLE SWITCH - 120/277V, 20A	
\$3	THREEWAY SWITCH - 120/277V, 20A	
\$4	FOURWAY SWITCH - 120/277V, 20A	
\$o	DIMMER SWITCH - REFER TO LTG CONTROL FOR ADDITIONAL INFORMATION	
\$k	KEY SWITCH - 120/277V, 20A	
\$w	MOTOR RATED SWITCH	
	REFER TO LIGHTING PLAN FOR ADDITIONAL LOW VOLTAGE LIGHTING CONTROLS SYMBOLS	
	DUPLEX RECEPTACLE - 125V,20A,1P	
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE 125V,20A,1P	
	ISOLATED GROUND RECEPTACLE - 125V,20A,1P	
	SINGLE RECEPTACLE - 250V, AMPS PER PANEL SCHEDULE	
	QUADRAPLEX RECEPTACLE - 125V,20A,1P	
	ISOLATED GROUND QUADRAPLEX RECEPTACLE - 125V,20A,1P	
	SINGLE RECEPTACLE - 125V,20A,1P (FLOOR MOUNTED)	
	JUNCTION BOX, SIZED PER N.E.C.	
	COMBO RECEPT. & USB CHARGING DEVICE HUBBELL #USB20ACS	
	TELEPHONE OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING	
	DATA/TELEPHONE OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING	
	DATA OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING	
	TELEVISION OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING	
	SPEAKER	
	PUSHBUTTON	
	HOLD UP BUTTON	
	AC ABOVE COUNTER	
	WP WEATHER PROOF	
	EWV ELECTRIC WATER COOLER	
	EWB ELECTRIC WATER HEATER	
	E.C. ELECTRICAL CONTRACTOR	
	NL NIGHT LIGHT - ON 24 HOURS	
	120V, 1P EQUIPMENT CONNECTION	
	240V, 1P EQUIPMENT CONNECTION	
	240V, 3P EQUIPMENT CONNECTION	
	208V, 1P EQUIPMENT CONNECTION	
	208V, 3P EQUIPMENT CONNECTION	
	277V, 1P EQUIPMENT CONNECTION	
	480V, 3P EQUIPMENT CONNECTION	
	480V, 1P EQUIPMENT CONNECTION	
	DISCONNECT SWITCH - SIZE AND POLE AS NOTED	
	COMBINATION STARTER/DISCONNECT SWITCH	
	STARTER	
	MANUAL MOTOR STARTER	
	PANELBOARD AS SPECIFIED	
	EXHAUST FAN	
	SECURITY PANEL	
	GENERAL PAGING SYSTEM	
	FIRE ALARM AUDIO HORN	
	FIRE ALARM PULL STATION	
	FIRE ALARM AUDIO/VISUAL SIGNAL	
	MOTION DETECTOR	
	FIRE ALARM ADA VISUAL SIGNAL	
	FIRE ALARM SHUT DOWN RELAY	
	SMOKE DETECTOR	
	HEAT DETECTOR	
	DUCT MTD. SMOKE DETECTOR	
	DOOR CONTACTOR ROUGH-IN WITH CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING.	
	KEY PAD	
	FIRE ALARM ANNUCIATOR	
	FIRE ALARM CONTROL PANEL	
	CAMERA	
	FLOW SWITCH	
	TAMPER SWITCH	
	PUSH-TO-EXIT BUTTON	
	ANSUL SUPPRESSION SYSTEM	
	FIRE ALARM DOOR RELEASE	
	GENERAL PAGING SYSTEM	
	KEYPAD (ROUGH-IN W/CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING)	
	CARD READER (ROUGH-IN W/CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING)	
	ELECTRONIC STRIKE (ACCESS CONTROL)	
	MAGNETIC LOCK (ACCESS CONTROL)	

## LIGHTING CONTROL NARRATIVE:

- IECC 2018 C405.2.1 - OCCUPANT SENSOR CONTROLS SHALL BE UTILIZED THROUGHOUT FOR INTERIOR LIGHTING CONTROL, EXCEPT IN AREAS FOR WHICH EXCEPTIONS APPLY.
  - THE OCCUPANT SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.
  - THE LIGHTS SHALL BE MANUAL ON OR CONTROLLED TO AUTOMATICALLY TURN ON TO NOT MORE THAN 50 PERCENT POWER. EXCEPTION: FULL AUTOMATIC-ON CONTROL SHALL BE PERMITTED TO CONTROL LIGHTING IN PUBLIC CORRIDORS, STAIRWAYS, RESTROOMS, PRIMARY BUILDING ENTRANCE AREAS AND LOBBIES, AND AREAS WHERE MANUAL-ON OPERATION WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS.
  - THE SPACE OR ROOM SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN OFF LIGHTS.
- IECC 2018 C405.2.3 - DAYLIGHT RESPONSIVE CONTROLS ARE NOT REQUIRED DUE TO THE FACT THAT NO ZONE MEETS THE MINIMUM REQUIREMENT OF 150WATTS PER ZONE.
- IECC 2018 C405.2.3 - DAYLIGHT RESPONSIVE CONTROLS ARE NOT REQUIRED IN SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED.
- IECC 2018 C405.2.3 - DAYLIGHT RESPONSIVE CONTROLS ARE NOT REQUIRED ON THE FIRST FLOOR ABOVE GRADE IN GROUP A-2 AND GROUP M OCCUPANCIES.
- IECC 2018 C405.2.6 - EXTERIOR LIGHTING CONTROLS WILL BE CONTROLLED VIA PROGRAMMABLE TIME CLOCK AND PHOTOCELL.
  - LIGHTS SHALL AUTOMATICALLY TURN OFF WHEN DAYLIGHT IS PRESENT AND SATISFIES THE LIGHTING NEEDS.
  - DECORATIVE LIGHTING (BUILDING FACADE AND LANDSCAPE LIGHTING) SHALL AUTOMATICALLY SHUT OFF FROM NOT MORE THAN 1 HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN 1 HOUR BEFORE BUSINESS OPENING.
  - ALL OTHER LIGHTING SHALL BE CONTROLLED SO THAT THE TOTAL WATTAGE OF SUCH LIGHTING IS AUTOMATICALLY REDUCED BY NOT LESS THAN 30 PERCENT BY SWITCHING OR DIMMING THE LUMINAIRES FROM NOT MORE THAN 1 HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN 1 HOUR BEFORE BUSINESS OPENING.
- REDUCED LIGHTING POWER DENSITY (IECC C406.3) METHOD WILL BE UTILIZED TO SATISFY THE ADDITIONAL EFFICIENCY PACKAGE OPTION IN IECC C406.
- LIGHTING INSTALLED IN WALK-IN COOLERS, WALK-IN FREEZERS, REFRIGERATED WAREHOUSE COOLERS AND FREEZERS SHALL COMPLY WITH IECC C403.10.1 OR C403.10.2

### LIGHTING SYSTEM CONTROLS FUNCTIONAL TESTING (IECC C408.3):

UNDER 2018 IECC, LIGHTING SYSTEM CONTROLS TESTING IS REQUIRED FOR ALL COMMERCIAL PROJECTS. A LETTER FROM THE THIRD PARTY REGISTERED DESIGN PROFESSIONAL OR COMMISSIONING AGENT THAT FOLLOWS THE REQUIREMENT IN C408.3.1 WILL FULFILL THIS REQUIREMENT. THIS INCLUDES IN PARTICULAR:

- (A) OCCUPANT SENSOR CONTROLS, APPLICABLE FOR ALL PROJECTS C405.2.1
- (B) TIME SWITCH CONTROLS, APPLICABLE FOR ALL PROJECTS C405.2.2
- (C) DAYLIGHT RESPONSIVE CONTROLS, WHERE APPLICABLE C405.2.3
- (D) SPECIFIC APPLICATION CONTROLS, WHERE APPLICABLE C405.2.4 (DISPLAY LIGHTING, ETC.)
- (E) EXTERIOR LIGHTING CONTROLS, WHERE APPLICABLE C405.2.6

## ELECTRICAL SYSTEM SECTION 16000

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND DISMANTLING OF TEMPORARY POWER USED FOR CONSTRUCTION AND ALL COSTS INCURRED AS A RESULT OF THIS WORK. COORDINATE ALL TEMPORARY ELECTRICAL SERVICE WORK WITH LOCAL UTILITY COMPANY PRIOR TO COMMENCING WORK.

WORK UNDER THIS CONTRACT INCLUDES MODIFICATIONS TO ANY EXISTING ELECTRICAL SYSTEM AND ALSO PROVIDING NEW MATERIALS, DEVICES, AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING ELECTRICAL SYSTEM. THE WORK ALSO INCLUDES FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT ITEMS PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES, ALL LOCAL APPLICABLE ORDINANCES AND LAWS, AS WELL AS, SUBJECT TO INSPECTION.

THE INTENT OF THESE DRAWINGS ARE TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL DEVICE ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PROPER OPERATION OF ALL SYSTEMS AND THEIR ASSOCIATED EQUIPMENT AS INDICATED BY THE DESIGN ON THESE PLANS.

COORDINATE WITH THE WORK OF ALL OTHER SECTIONS. VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. REFER TO ARCHITECTURAL PLANS, AS WELL AS, KITCHEN EQUIPMENT PLANS FOR ADDITIONAL INFORMATION REGARDING RELATED EQUIPMENT, CASEWORK, AND ELECTRICAL CONNECTIONS REQUIRED THEREIN.

COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, NFPA, OSHA, LIFE SAFETY CODES, AND ALL APPLICABLE LAWS IN EFFECT AT THE TIME OF THIS PROPOSAL. IN THE CASE OF CONFLICT, THEN THE STRICTER INTERPRETATION SHALL TAKE PRECEDENCE. ALL MATERIALS USED SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS ESTABLISHED BY THE UNDERWRITER'S LABORATORIES INC.

VERIFY VOLTAGE DROPS, A.I.C. RATINGS FOR ALL EQUIPMENT CONNECTED, AND VERIFY SIZE OF ALL CIRCUIT BREAKERS, CONDUIT, ETC. PRIOR TO INSTALLATION.

ROOF PENETRATIONS SHALL COMPLY WITH SMACNA, NRCA STANDARDS, AS WELL AS, ALL REQUIREMENTS OF THE OWNER AND ROOF METHODS AND MATERIALS WARRANTY. SUB-CONTRACT ROOFING PENETRATION WORK TO AN ENTITY APPROVED FOR USE BY THE OWNER AND ROOF MANUFACTURER.

PANELBOARDS: SHALL BE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS. BUSSING SHALL BE COPPER WITH SILVER PLATING. PROVIDE SOLID NEUTRAL BAR.

DISCONNECT SWITCHES: SHALL BE HEAVY-DUTY TYPE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS. DO NOT MOUNT DISCONNECT SWITCHES TO ANY HVAC UNIT. LOCATION TO BE COORDINATED WITH MECHANICAL CONTRACTOR.

TRANSFORMERS: SHALL BE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS.

CIRCUIT BREAKERS: THERMAL MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, BOLT-ON TYPE OF SINGLE UNIT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. BREAKERS USED AS A SWITCH FOR 120 VOLT LIGHTING CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SWD". BREAKERS USED FOR PROTECTING HVAC EQUIPMENT SHALL BE RATED "HACR".

SURGE PROTECTION DEVICE (SPD): SPDs SHALL BE UL1449 4TH EDITION LISTED AND MANUFACTURED BY THOR SQUARE D, EATON OR SIEMENS. SPDs SHALL HAVE STANDARD 7-MODE PROTECTION AND SERVICE ENTRANCE & INTERMEDIATE DISTRIBUTION UNITS SHALL BE UL LABELED WITH 200A 1-NOMINAL.

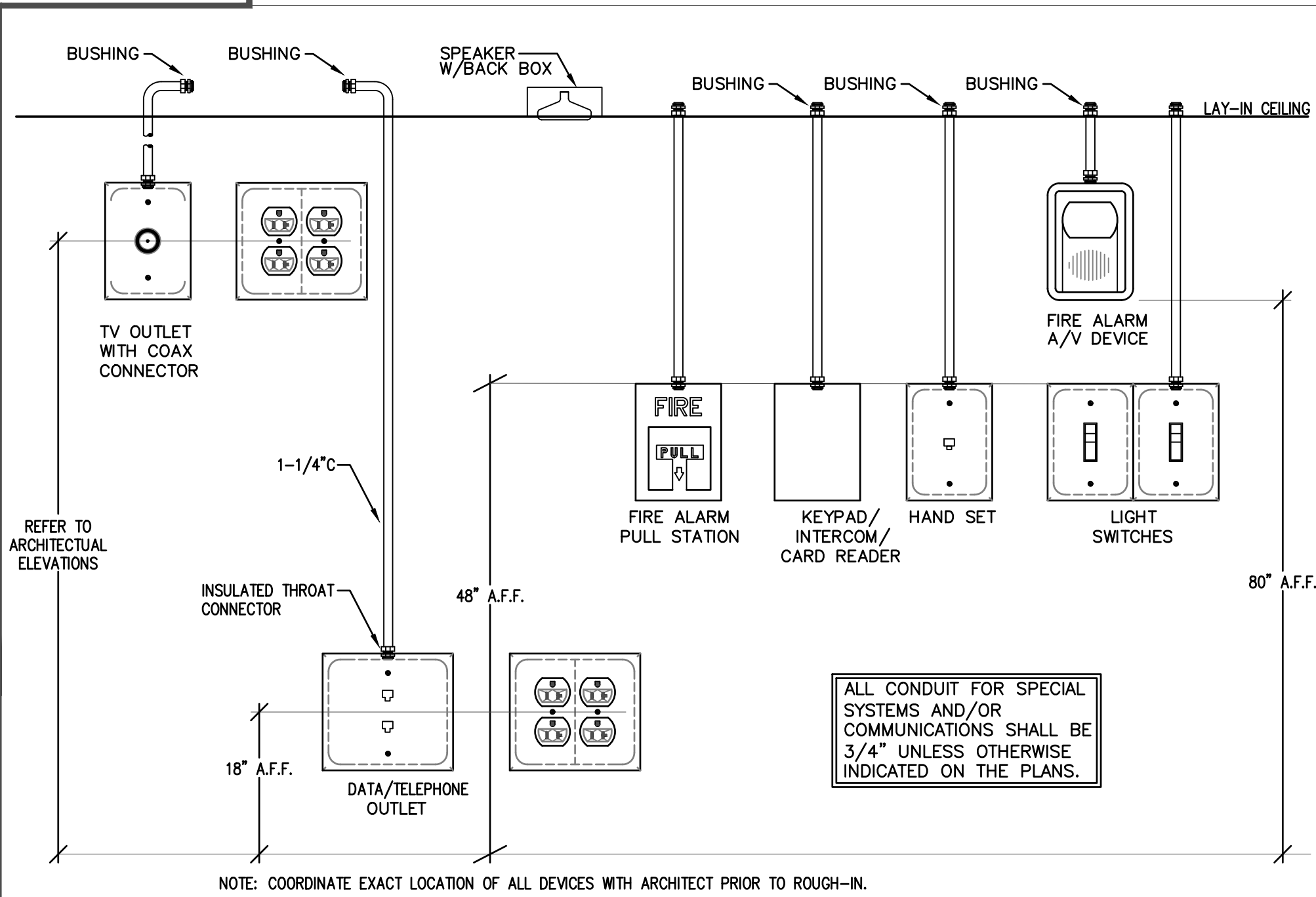
SURGE CURRENT CAPABILITY FOR SERVICE ENTRANCE DEVICES SHALL BE 300KA PER PHASE, 200KA PER PHASE FOR INTERMEDIATE DISTRIBUTION OR ROOF MOUNTED BRANCH PANELS, AND 100KA FOR BRANCH PANELS. SPDs SHALL BE EXTERNAL TO EQUIPMENT UNLESS NOTED OTHERWISE ON DRAWING.

CABINETS: SHALL BE ONE PIECE CODE GAGE GALVANIZED STEEL WITH MOUNTING STUDS, WIRING GUTTERS OF APPROPRIATE SIZE AND KNOCKOUTS FOR CONDUIT CONNECTIONS AS REQUIRED. BUS BARS SHALL BE 98% CONDUCTIVE COPPER, ALUMINUM, OR COPPER-CLAD ALUMINUM. FRONTS SHALL BE ONE PIECE CODE GAGE FURNITURE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE FLUSH MOUNT UNITS UNLESS OTHERWISE INDICATED. PROVIDE A PLASTIC COVERED TYPEWRITTEN SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS INSIDE EACH CABINET.

GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING. WHERE GROUNDING CONDUCTORS ARE ENCLOSED IN CONDUIT, GROUND CLAMPS SHALL BE OF A TYPE WHICH GROUND BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE METAL OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZE IN ACCORDANCE WITH NEC TABLE 250.

CONDUIT: SHALL BE SIZED TO COMPLY WITH NEC FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED. MINIMUM OF 24" BELOW GRADE. PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID STEEL CONDUIT BELOW GRADE. MINIMUM SIZE 3/4". PROVIDE RIGID STEEL ELBOWS WHEN UNDERGROUND CONDUIT PENETRATES THE FLOOR SLAB. PROVIDE ELECTRICAL METALLIC TUBING (EMT) MEETING FSW-C563, ARMOR CABLE, OR FLEXIBLE CONDUIT (IN LENGTHS 6' OR LESS) FOR INTERIOR LOCATIONS. EMT CONNECTORS AND COUPLINGS 2" AND SMALLER SHALL BE COMPRESSION TYPE. CLAMP CONDUIT TO BOXES WITH BUSSING INSIDE AND LOCKNUT OUTSIDE.

1. RIGID STEEL CONDUIT: ANSI C80.1
2. INTERMEDIATE STEEL CONDUIT: UL 1242
3. ELECTRICAL METALLIC TUBING AND FITTINGS: ANSI C80.3
4. FLEXIBLE METAL CONDUIT: ZINC COATED STEEL.
5. LIQUID-TIGHT FLEXIBLE METAL CONDUIT AND FITTINGS: UL 360. FITTINGS TO BE SPECIFICALLY APPROVED FOR USE WITH THIS RACEWAY.
6. MC CABLE IS APPROVED FOR INSTALLATION ONLY AT THE END OF A RIGID CONDUIT RUN AND IS ONLY TO ORIGINATE FROM AN APPROVED JUNCTION BOX AND FEED DIRECTLY DOWN TO DEVICE.



1 TYPICAL DEVICE ELEVATIONS (UNLESS NOTED OTHERWISE)

NOT TO SCALE

CONDUCTORS: INSULATED SOFT ANNEALED 98% PURE COPPER WITH COLOR CODING, B AND S GAGE, #12 TO BE SOLID OR STRANDED, #10 AND LARGER TO BE STRANDED, MINIMUM #12, UNLESS OTHERWISE INDICATED. ALL EQUIPMENT TO BE PROVIDED WITH CU/AL 75° DEGREE C. TERMINAL LUGS. CONDUCTORS WITH "THHN" INSULATION MAY NOT BE USED UNDERGROUND AT SERVICE ENTRANCES, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE RATED FOR 90° DEGREE C OR 600 VOLT AND TYPES AS FOLLOWS:

BRANCH CIRCUITS	THHN, THWN2
FEEDERS	THWN2
SERVICE ENTRANCE	THWN2, XHHW, XHHW2

### DEVICES & COVERPLATES:

#### PUBLIC AREAS:

ALL DEVICES AND COVERPLATES SHALL BE STAINLESS STEEL. STANDARD DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 20 AMP, NEMA 5-20R, SIDE OR BACK WIRED.

SINGLE RECEPTACLE: 15 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-15R. HUBBELL #5251-#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).

DUPLEX RECEPTACLE: 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-20R. HUBBELL #5342-#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).

GROUND-FAULT INTERRUPTER RECEPTACLE: 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-20R, FEED-THRU TYPE CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES. UL RATED CLASS A, GROUP 1, SOLID STATE GROUND-FAULT SENSING LEVEL WITH 5 ma GROUND-FAULT TRIP LEVEL. HUBBELL #1G5362#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).

WEATHERPROOF RECEPTACLE: SHALL BE A GROUND-FAULT INTERRUPTER WITH STAINLESS STEEL, GASKETED LIDS AND PLATE. PLATE TO CONSIST OF TWO SPRING LOADED LIDS HINGED AT TOP.

PLUG FILTERS: PROVIDE FLUSH RECEPTACLE COVERS AT ALL DUPLEX RECEPTACLES IN PUBLIC AREAS. COLOR OF FILTERS TO MATCH COLOR OF RECEPTACLE AND COVERPLATE.

LIGHTING FIXTURES: ALL LIGHTING FIXTURES AND ASSOCIATED LAMPS AND BALLASTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

LAYOUT BRANCH CIRCUIT WIRING AND ARRANGE HOMERUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE AND CONDUIT SIZE ACCORDINGLY IF VOLTAGE DROP EXCEEDS 3% OR LENGTH OF RUN EXCEEDS 100 FEET.

CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILINGS OR IN WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE. INSTALL CONDUIT PARALLEL OR PERPENDICULAR TO ALL BUILDING LINES, SUCH THAT ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, STRUCTURE, ETC. ARE AVOIDED.

INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90° DEGREE BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT SUPPORT CONDUIT FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES. REAM CONDUIT ENDS AND THOROUGHLY CLEAN BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT FREE OF DEBRIS. SWITCHES AND OUTLETS SHALL NOT BE USED TO "FEED THRU" TO THE NEXT SWITCH OR OUTLET. THE DISCONNECTION OR REMOVAL OF A RECEPTACLE, FIXTURE OR OTHER DEVICE FED FROM A BOX SHALL NOT INTERFERE WITH OR INTERRUPT THE CONDUCTOR CONTINUITY.

ADJUSTING AND TESTING: ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AND TESTED FOR PROPER OPERATION. COMPLETED WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.

TOUCH-UP OR REFINISH DAMAGED SURFACES OF FIXTURES AND EQUIPMENT, EXPOSED TO VIEW, TO PRESENT A "NEW" APPEARANCE.

ALL CONDUIT AND JUNCTION BOXES LOCATED WITHIN AN EXPOSED STRUCTURAL SYSTEM SHALL BE PAINTED TO MATCH THE COLOR OF THE STRUCTURE (COLOR TO BE VERIFIED WITH ARCHITECT).

ALL LAMPS, FIXTURES AND ASSOCIATED HOUSINGS, LENSES, AND LOUVERS SHALL BE CLEANED PRIOR TO OWNER ACCEPTANCE.

TOGGLE TYPE SWITCH: 20 AMP, 120/277 VOLT AC SINGLE-POLE, QUIET TYPE, WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SIDE-WIRED SCREW

TERMINALS. HUBBELL #HBL 1221L.

A. 2-POLE, 3-WAY & 4-WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE-POLE.

PILOT TYPE TOGGLE SWITCH: INSTALL SWITCH DEVICE WITH 1/25 WATT NEON PILOT INTEGRAL WITH TOGGLE HANDLE, RATED 120/277 VOLT AC. PILOT LIGHT GLOWS IN THE "ON" POSITION. HUBBELL #HBL 1221PL.

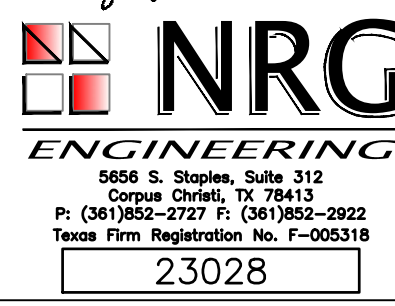
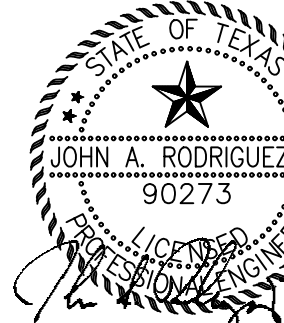
### ELECTRICAL EQUIPMENT IDENTIFICATION:

A. ENGRAVED PLASTIC-LAMINATE NAMEPLATES: SHALL BE ENGRAVING STOCK MELAMINE PLASTIC LAMINATE 1/16" THICK, 1-1/2" HIGH (2" HIGH FOR 2 LINES OF TEXT) WITH 1/2" HIGH ENGRAVER'S STYLE LETTERS. COLOR SHALL BE BLACK WITH WHITE LETTERING. NAMEPLATE SHALL BE PUNCHED FOR MECHANICAL FASTENING WITH SELF-TAPPING STAINLESS STEEL SCREWS, UNLESS ADHESIVE MOUNTING IS NECESSARY DUE TO SUBSTRATE MATERIAL.

B. UNDERGROUND-TYPE PLASTIC LINE MARKER: SHALL BE PERMANENT, BRIGHT COLORED, CONTINUOUS-PRINTED PLASTIC TAPE, INTENDED FOR DIRECT BURIAL SERVICE, NOT LESS THAN 6" WIDE x 4 MILS THICK. PROVIDE TAPE WITH WORDED PRINT WHICH MOST ACCURATELY DESCRIBES THE TYPE OF SERVICE FOR BURIED CABLE.

C. CABLE/CONDUCTOR IDENTIFICATION BANDS: SHALL BE VINYL-CLOTH, SELF-ADHESIVE, WRAP-AROUND TYPE MARKER. EITHER PRE-NUMBERED PLASTIC COATED TYPE OR WRITE-ON TYPE WITH CLEAR PLASTIC SELF-ADHESIVE COVER FLAP. NUMBERED TO SHOW CIRCUIT IDENTIFICATION.

4/25/2023



Project Address:  
301 J.C. Barr Blvd.  
Port Aransas TX 78373  
Nueces County

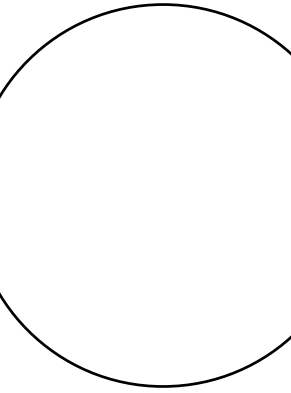
Project Name:  
COFA-MARINA  
RESTROOM/SHOP  
RENOVATIONS

Project No:  
23006

Project Date:  
April 25, 2023

ELECTRICAL  
SPECIFICATION

E300



phone: 361.537.4400 epr@edrarchitects.com

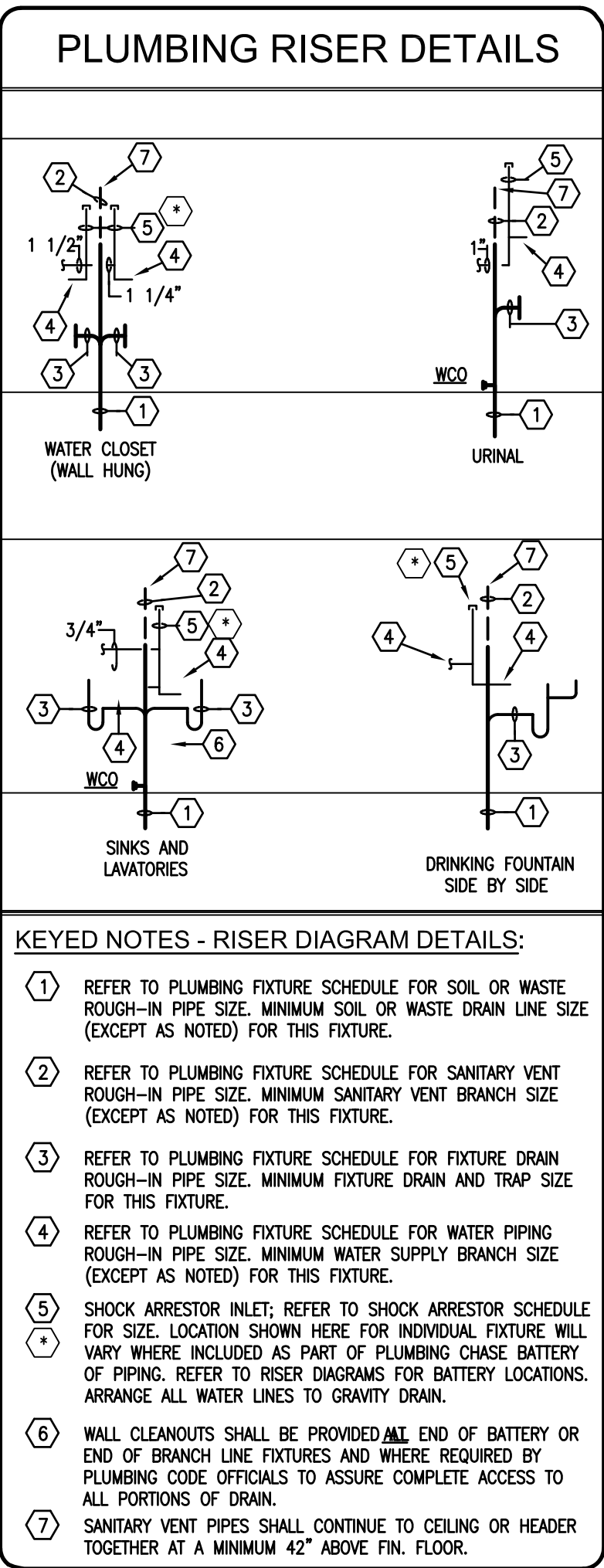
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DATE: 4/25/2023



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PLUMBING LEGEND		
DISREGARD LEGEND ITEMS NOT INDICATED ON DRAWINGS		
SYMBOL	DESCRIPTION	ABBR.
---	SOIL OR WASTE PIPING B.G.	WST
---	SOIL OR WASTE PIPING A.G.	WST
GW	GREASE WASTE PIPING	GW
----	VENT PIPING	V
SD	STORM DRAIN PIPING	SD
OD	OVERFLOW STORM DRAIN PIPING	OD
G	GAS LINE	G
F	FIRE OR SPRINKLER LINE	F
---	DOMESTIC COLD WATER	CW
---	DOMESTIC HOT WATER	HW
---	DOMESTIC HOT WATER RETURN	HWR
TW	TEMPERED DOMESTIC HOT WATER	TW
GV	GATE VALVE	GV
GLV	GLOBE VALVE	GLV
BV	BALL VALVE	BV
CKV	CHECK VALVE	CKV
BAV	BALANCING VALVE	BAV
BTV	BUTTERFLY VALVE	BTV
PLV	PLUG VALVE	PLV
PRV	PRESSURE REDUCING VALVE	PRV
T&P	PRESSURE RELIEF VALVE	T&P
STR	STRAINER	STR
UN	UNION	UN
TW	THERMOMETER WELL	TW
PG	PRESSURE GAUGE	PG
THRM	THERMOMETER	THRM
D	CONDENSATE OR INDIRECT DRAIN	D
---	BRANCH CONNECTION, TOP	---
---	BRANCH CONNECTION, BOTTOM	---
---	ELBOW UP	---
---	ELBOW DOWN	---
FCO	FLOOR CLEANOUT (INTERIOR)	FCO
COG	CLEANOUT AT GRADE (EXTERIOR)	COG
WCO	WALL CLEANOUT	WCO
FD	FLOOR DRAIN	FD
FS	FLOOR SINK	FS
HB	HOSE BIBB	HB
WH	WALL HYDRANT	WH
---	NEW TO EXISTING PIPE CONNECTION	---
P/X	PLUMBING RISER IDENTIFICATION	P/X
DS/X	DOWNSPOUT RISER IDENTIFICATION	DS/X
F/X	FIRE RISER IDENTIFICATION	F/X
ABBR.	ABBR.	ABBR.
AFF	ABOVE FINISHED FLOOR	AFF
AP	ACCESS PANEL	AP
BFF	BELOW FINISHED FLOOR	BFF
BOP	BOTTOM OF PIPE	BOP
D	INDIRECT DRAIN	D
(E)	EXISTING TO REMAIN	(E)
(D)	EXISTING TO BE DEMOLISHED	(D)
(R)	EXISTING TO BE RELOCATED	(R)
FIN	FINISHED	FIN
FLR	FLOOR	FLR
INV. EL.	INVERT ELEVATION	INV. EL.
NC	NORMALLY CLOSED	NC
SW	SOFT WATER	SW
TP	TRAP PRIMER	TP
TYP	TYPICAL	TYP
VTR	VENT THRU ROOF	VTR
**NOT ALL SYMBOLS MAY BE USED**		



- GENERAL NOTES:
- CONTRACTOR TO FIELD VERIFY ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
  - MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION OF ROUGH-IN WORK.
  - FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES, PROVIDE UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FINAL CONNECTIONS.
  - CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH-IN OPENINGS BEFORE BEGINNING WORK.
  - ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED (WERE EXPOSED), AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE TYPE "L" TUBING, CHROME PLATED. PROVIDE 1/2" FIP X 3/8" OD COMPRESSION FITTINGS FOR ALL SINKS, LAVATORIES, AND SIMILAR FIXTURES.
  - ALL P-TRAPS WITHIN THE BUILDING, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE CHROME PLATED, ADJUSTABLE, CAST BRASS WITH CLEANOUT PLUG, PROVIDE C.P. CAST BRASS SLIP NUTS AND WASHERS, 17 GAGE SEAMLESS TUBULAR BRASS DRAIN TO WALL AND WALL FLANGE, PROVIDE 1-1/2" P-TRAP FOR ALL LAVATORIES AND SIMILAR FIXTURES, PROVIDE 1-1/2" P-TRAP FOR ALL SINKS AND SIMILAR FIXTURES, MCGUIRE OR EQUAL.
  - ALL ROUGH-IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO PIPE AND FLUSH TO WALL. STEEL ESCUTCHEON PLATES ARE NOT ACCEPTED.
  - ALL EXPOSED BRASS SHALL BE CHROME PLATED.
  - ALL HANDICAPPED ACCESSIBLE FIXTURES SHALL BE OF APPROVED TYPES AND WITH REQUIRED CONTROLS INSTALLED TO HEIGHTS AND CLEARANCES, AS PRESCRIBED BY THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY STANDARDS (TAS). FIXTURES SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ACCESSIBILITY CODE REQUIREMENTS. PROVIDE FIXTURES WITH DEPTHS AT MAXIMUM PERMITTED AND AVAILABLE FOR INTENDED FIXTURE USE.
  - INSULATE ALL EXPOSED WATER AND DRAIN LINES ON ADA/TAS ACCESSIBLE LAVATORIES AND SINKS WITH MCGUIRE PRO-WRAP OR EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES.
  - ALL ADA/TAS SINKS SHALL BE STAMPED WITH DRAIN OUTLET AT THE REAR OF THE BOWL.
  - PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH SENATE BILL 587 FOR WATER SAVING PERFORMANCE. LAVATORY AND SINK FAUCETS SHALL INCLUDE 0.5 GPM AND 2.2 GPM FLOW CONTROL, RESPECTIVELY.
  - ORIENT ADA/TAS WATER CLOSET FLUSH VALVE WITH OPERATOR ON LARGE SIDE OF ENCLOSURE AND BELOW GRAB BARS.
  - SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
  - FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE UNIFORMLY SLOPED ACROSS ENTIRE TOILET ROOMS OR OVER AS WIDE AN AREA AS PRACTICAL FOR OPEN AREA FLOOR DRAINS. CONVEX FLOOR SLOPE IN THE IMMEDIATE VICINITY OF THE FLOOR DRAIN IS NOT ACCEPTABLE.
  - EQUIVALENT MANUFACTURES OF CHINA FIXTURES ARE KOHLER, AND AMERICAN STANDARD. EQUIVALENT MANUFACTURES OF STAINLESS FIXTURES ARE JUST, ELKAY, AND ADVANCE TABCO.
  - WATER HEATER SHALL BE PROVIDED WITH CODE APPROVED VACUUM BREAKER AND BRASS ASME TEMPERATURE AND PRESSURE RELIEF VALVE. ROUTE TPR DRAIN LINE FULL SIZED TO EXTERIOR OF BUILDING AND TERMINATE 6" ABOVE FINISHED GRADE, OR AS INDICATED ON PLANS.
  - ROOF PENETRATIONS SHALL BE DONE IN STRICT COMPLIANCE WITH THE ARCHITECTS SPECIFICATIONS AND SHALL BE LEAK PROOF.
  - FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF STUB OUTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY WHICH MAY AFFECT THE INTENDED DESIGN.
  - ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL STATE AND LOCAL CODES.
  - THE PLUMBING CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE.
  - ALL WATER HEATER SUPPLY CONNECTIONS SHALL HAVE HEAT TRAP NIPPLE CONNECTIONS. HEAT TRAP NIPPLES NOT REQUIRED IF HOT WATER RECIRCULATION SYSTEM IS PROVIDED.
  - NO HUB COUPLINGS SHALL BE HEAVY DUTY 4 BAND COUPLINGS WITH STAINLESS STEEL SHIELD.
  - INSULATE CONCEALED ROOF DRAIN BODIES, VERTICAL LEAD AND HORIZONTAL PIPING WITH R-6 FLEXIBLE BLANKET INSULATION. EXPOSED ROOF DRAIN BODIES AND PIPES SHALL BE INSULATED WITH AN R-6 RIGID INSULATION AND PAINTABLE CANVAS JACKET.

## PLUMBING SYSTEM SECTION 15400

THE WORK INCLUDES PROVIDING NEW MATERIALS, FITTINGS, AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM. THE WORK ALSO INCLUDES ROUGH-IN AND FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS SUBJECT TO INSPECTION.

CONNECTION CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OF THIS SECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURE INSTALLATION REQUIREMENTS. COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS ON THE PROJECT SITE.

SUBMITTALS

COORDINATE WITH DIVISION 1 FOR SUBMITTAL TIMETABLE REQUIREMENTS, UNLESS NOTED OTHERWISE WITHIN THIRTY (30) DAYS AFTER THE CONTRACT IS AWARDED THE CONTRACTOR SHALL SUBMIT A MINIMUM OF ONE ELECTRONIC COPY IN A PORTABLE DIGITAL FORMAT (PDF) COMPLETE WITH TABLE OF CONTENTS AND BOUND SETS OF SHOP DRAWINGS AND COMPLETE DATA COVERING EACH ITEM OF EQUIPMENT OR MATERIAL. THE FIRST SUBMITTAL OF EACH ITEM REQUIRING A SUBMITTAL MUST BE RECEIVED BY THE ARCHITECT OR ENGINEER WITHIN THE ABOVE THIRTY DAY PERIOD. THE ARCHITECT OR ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DELAYS OR COSTS INCURRED DUE TO EXCESSIVE SHOP DRAWING REVIEW TIME FOR SUBMITTALS RECEIVED AFTER THE THIRTY (30) DAY TIME LIMIT. THE ARCHITECT AND ENGINEER WILL RETAIN A COPY OF ALL SHOP DRAWINGS FOR THEIR FILES. WHERE FULL SIZE DRAWINGS ARE INVOLVED, SUBMIT ONE (1) PRINT IN LIEU OF ELECTRONIC COPIES. ALL LITERATURE PERTAINING TO AN ITEM SUBJECT TO SHOP DRAWING SUBMITTAL SHALL BE SUBMITTED AT ONE TIME. A SUBMITTAL SHALL NOT CONTAIN INFORMATION FROM MORE THAN ONE SPECIFICATION SECTION, BUT MAY HAVE A SECTION SUBDIVIDED INTO ITEMS OR EQUIPMENT AS LISTED IN EACH SECTION. THE CONTRACTOR MAY ELECT TO SUBMIT EACH ITEM OR TYPE OF EQUIPMENT SEPARATELY.

PIPING SYSTEMS - GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

SEWER/WASTE PIPING: SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE HUBLESS CAST IRON, PVC PIPE WHERE ACCEPTED BY CODE, FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE 40 PVC WITH SCHEDULE 40 WELD JOINTS AND FITTINGS. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED 1/4" PER FOOT FOR SIZES 3" AND SMALLER AND 1/8" PER FOOT FOR PIPE SIZES 4" AND LARGER.

VENTS - PROVIDE A COMPLETE SYSTEM OF STANDARD WEIGHT CAST IRON. DO NOT USE DWV PLASTIC IN RETURN AIR PLENUM SPACES. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CONDENSATE AND INDIRECT DRAIN PIPING: TYPE M COPPER TUBING UP TO 1" ID, TYPE DWV TUBING AND FITTINGS FOR 1-1/4" AND LARGER SIZES.

CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE, CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSCURE FROM VIEW.

WATER DISTRIBUTION PIPING: LAYOUT WATER PIPING SO THAT THE ENTIRE SYSTEM CAN BE DRAINED. HOT AND COLD WATER PIPING SHALL BE 1/2" MIN. TYPE L COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS; PROVIDE WATER HAMMER ARRESTORS AT EACH FIXTURE STOP. INSTALL CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS). USE TIN-ANTIMONY SOLDER, 95/5 FOR ALL SWEAT FITTINGS OF COPPER PIPING.

PIPE INSULATION: INSULATE ALL HOT AND COLD WATER PIPING, ROOF DRAIN BODIES AND HORIZONTAL ROOF DRAIN PIPES WITH A THERMAL INSULATION HAVING AN R-VALUE OF 4 OR GREATER. INSULATION SHALL HAVE A K FACTOR OF 0.23 AT 75 DEGREES F. PROVIDE PRE-FORMED FIBERGLASS, ASJ-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547, OR PROVIDE WHERE PERMITTED BY LOCAL CODES, 1" SELF-ADHESIVE CLOSED CELL FOAM PIPE INSULATION WITH PRE-FORMED PVC FITTING COVERS - EQUAL TO SELF-ADHESIVE ARMACELL'S AP ARMAFLEX WITH K FACTOR OF 0.23 AT 75 DEGREES MEAN TEMPERATURE. INSULATE ANY EXPOSED CONDENSATE PIPING WITH WASTE TEMPERATURES BELOW 60 DEGREES F.

PROVIDE HEAT TRAPS AT HOT AND COLD WATER CONNECTIONS TO WATER HEATER.

SHUTOFF VALVES, WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE, FOOD SERVICE EQUIPMENT ITEM OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. VALVES SHALL BE EQUAL TO NIBCO NO. T-585-70-66 BALL VALVE, BRONZE BODY, S.S. BALL AND STEM, TEFLON SEATS AND PACKING, 600 LB. W.O.G., THREADED UNION END.

ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.

SUPPLIES AND TRAPS: PROVIDE WATER SEALED TRAPS AND/OR SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES, DRAINS, AND FOOD SERVICE EQUIPMENT OR BEVERAGE DISPENSING EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION, OR REQUIRING WATER SERVICE. EXPOSED TRAPS AND SUPPLIES IN EXPOSED AREAS (INCLUDING CABINET INTERIORS) SHALL BE CHROMIUM PLATED BRASS, WITH CHROME PLATED BRASS NUTS AND CHROME PLATED BRASS ESCUTCHEON PLATES. PROVIDE HUBLESS CAST IRON WASTE PIPING AND FITTINGS FOR THE TWO, THREE AND, FOUR COMPARTMENT SINKS. REMOVE MARKINGS FROM ALL PIPING WHEN INSTALLATION IS COMPLETE.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMIT ESCUTCHEONS.

REPAIR EXISTING PLUMBING SYSTEM COMPONENTS DAMAGED BY CONSTRUCTION OPERATIONS AND RESTORE TO ORIGINAL CONDITIONS.

TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

SHOP DRAWINGS: CONTRACTORS TO PROVIDE SIX SETS OF SHOP DRAWING SUBMITTALS FOR REVIEW AND APPROVAL TO ARCHITECT, OWNER, ARCHITECT, AND ENGINEER (WHEN APPLICABLE) TO RETAIN ONE SET FOR THEIR OWN RECORDS.

4/25/2023

STATE OF TEXAS

SEAN M. RODRIGUEZ

96478

LICENSED PROFESSIONAL ENGINEER

NRG ENGINEERING

8650 S. Staples, Suite 312  
Coppell, Texas, TX 75013  
P: (941)852-2727 F: (941)852-2922  
Texas Firm Registration No. F-005318

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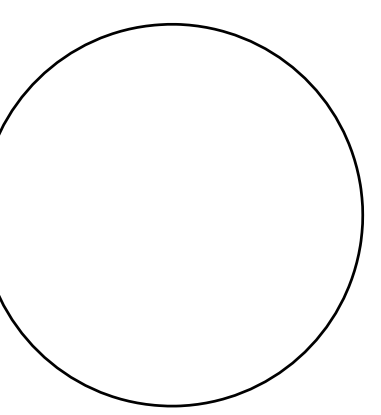
Plumbing Specifications

Project Name:  
COPA-MARINA  
RESTROOM/SHOP  
RENOVATIONS

Project No:  
23006

Project Address:  
301 J.C. Barr Blvd.  
Port Aransas TX 78373  
Nueces County

April 25, 2023



EDR architects

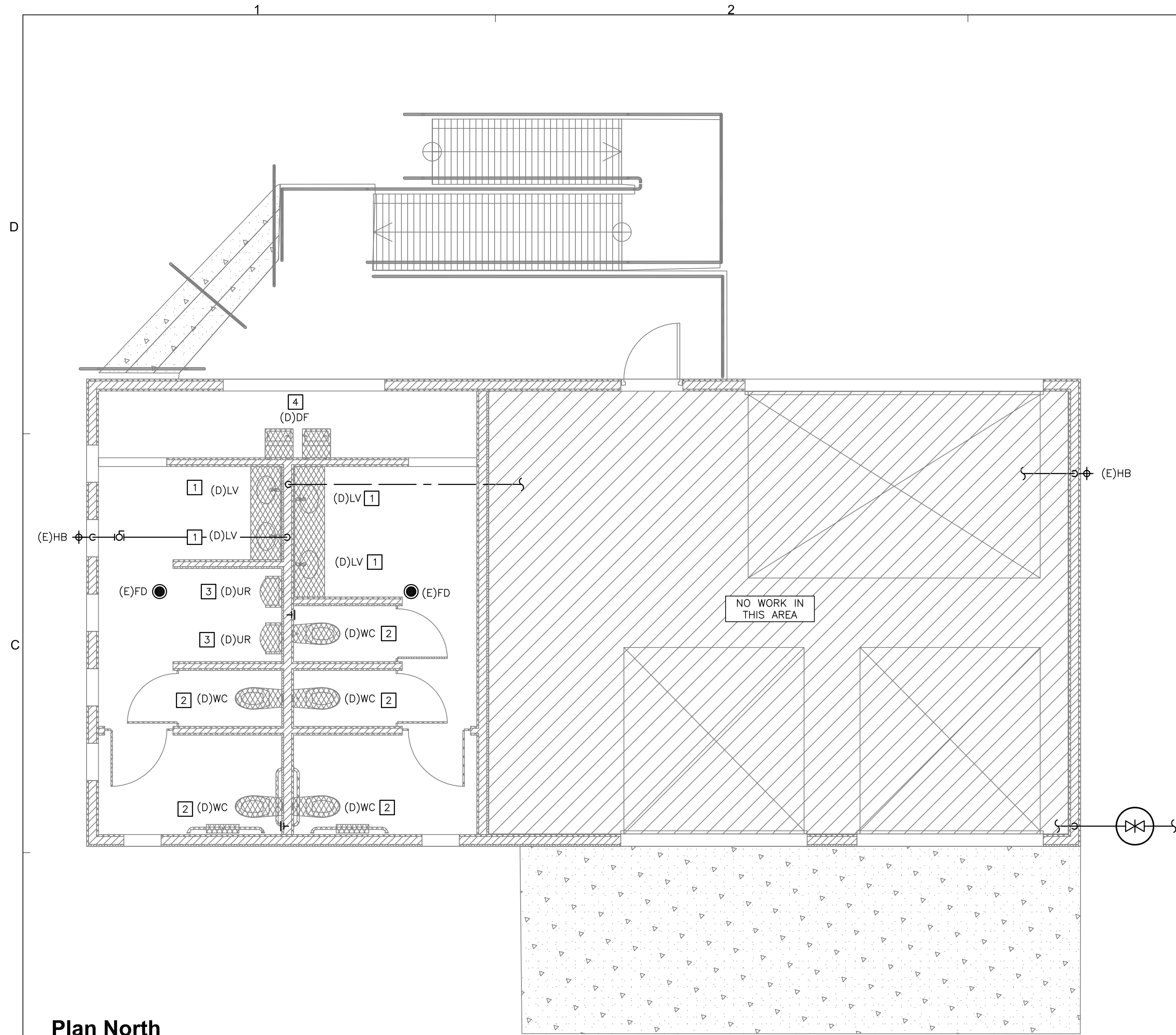
phone: 361.537.4400 erozypa@edrarchitects.com



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## DEMOLITION PLAN

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

### GENERAL PLUMBING NOTES:

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- IF INCOMING WATER PRESSURE IS ABOVE 80 PSI, INSTALL A PRESSURE REDUCING VALVE. INSTALL IN FIRE RISER/MECHANICAL ROOM OR AS HIGH AS POSSIBLE NEAR THE BAR JOIST WHEN NO ROOM IS AVAILABLE.
- REMOVE AND CAP ABOVE CEILING LEVEL ALL DOMESTIC WATER AND VENT PIPING LOCATED IN WALLS THAT ARE TO BE DEMOLISHED.
- WHERE PLUMBING FIXTURES ARE TO BE REMOVED AND RELOCATED OR REPLACED, THE CONTRACTOR SHALL CUT AND REPAIR EXISTING WALLS, FLOORS, AND CEILINGS AS NECESSARY TO MATCH NEW CONDITIONS.
- ROD ALL SEWER LINES AND FLUSH OF DEBRIS.

### PLUMBING DEMO KEYED NOTES

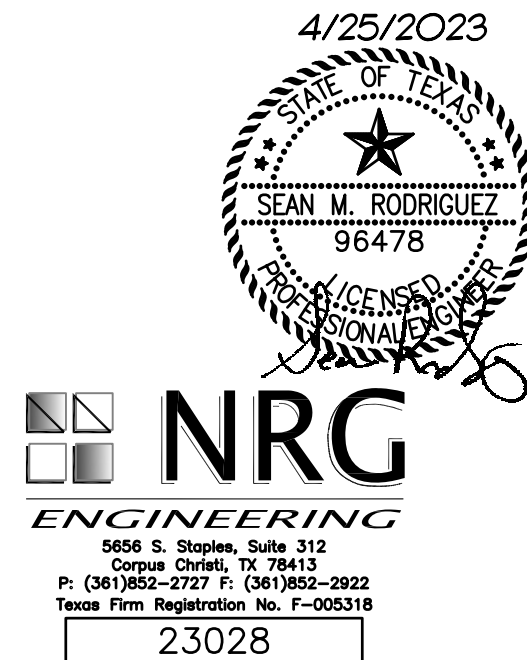
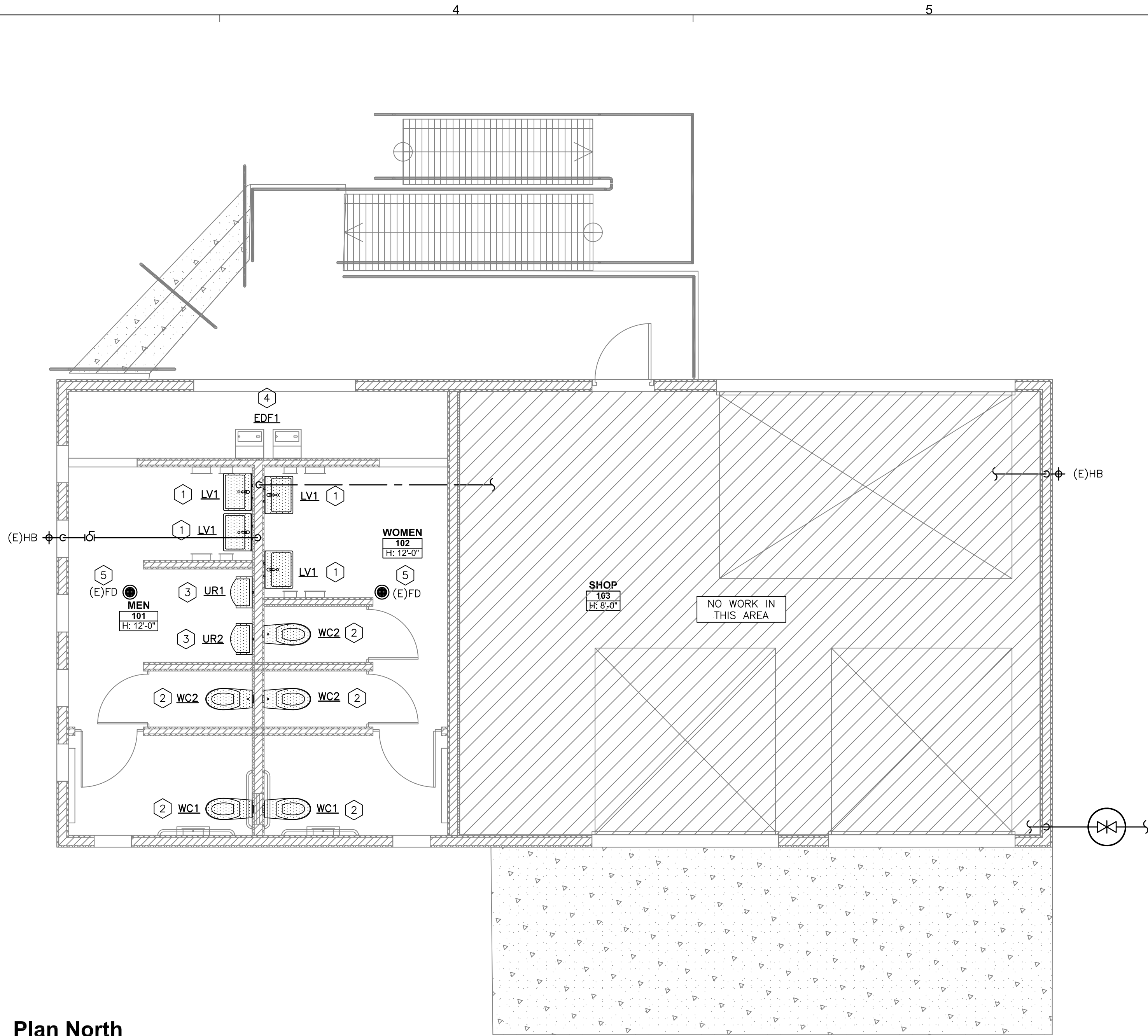
- REMOVE AND DIPOSE OF EXISTING LAVATORY, FAUCET, AND APPURTENANCES. PREPARE FOR NEW FIXTURE CONNECTIONS.
- REMOVE AND DIPOSE OF EXISTING WATER CLOSET, FLUSH VALVE, AND APPURTENANCES. PREPARE FOR NEW FIXTURE CONNECTIONS.
- REMOVE AND DIPOSE OF EXISTING URINAL, VALVE, AND APPURTENANCES. PREPARE FOR NEW FIXTURE CONNECTION.
- REMOVE AND DIPOSE OF EXISTING DRINKING FOUNTAIN, VALVE, AND APPURTENANCES. PREPARE FOR NEW FIXTURE CONNECTION.

### PLUMBING KEYED NOTES

- INSTALL LAVATORY AS SCHEDULED. CONNECT TO EXISTING WASTE, VENT, AND COLD WATER IN WALL. CUT AND PATCH WALL AS REQUIRED TO INSTALL CARRIER AND RELOCATE PIPING. REFER TO ARCHITECTURAL FOR MOUNTING HEIGHTS.
- INSTALL WATER CLOSET AS SCHEDULED. CONNECT TO WASTE, VENT, AND COLD WATER IN WALL. CUT AND PATCH WALL AS REQUIRED TO RELOCATE MOUNTING BOLTS AND ADJUST CARRIER. REFER TO ARCHITECTURAL FOR MOUNTING HEIGHTS.
- INSTALL URINAL AS SCHEDULED. CONNECT TO WASTE, VENT, AND COLD WATER. CUT AND PATCH WALL AS REQUIRED TO RELOCATE MOUNTING BOLTS AND ADJUST CARRIER. REFER TO ARCHITECTURAL FOR MOUNTING HEIGHTS.
- INSTALL DRINKING FOUNTAIN AS SCHEDULED. CONNECT TO WASTE, VENT, AND COLD WATER IN WALL. CUT AND PATCH WALL AS REQUIRED TO ADJUST OR INSTALL CARRIER. REFER TO ARCHITECTURAL FOR MOUNTING HEIGHTS.
- CLEAN FLOOR DRAIN, RAISE TO BE FLUSH WITH NEW TILE. INSTALL TRAP-GUARD TRAP SEAL AND RETURN GRATE.

## PLUMBING REMODEL PLAN

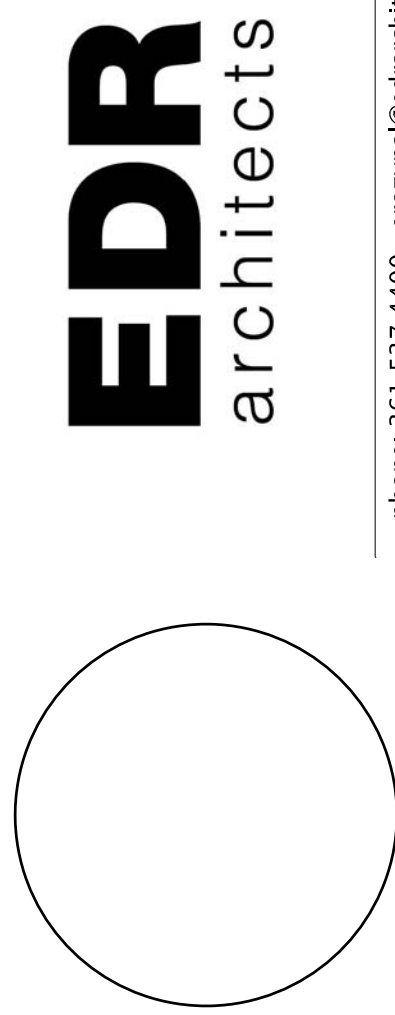
SCALE: 1/4" = 1'-0"



Project Name:  
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RESTROOM/SHOP  
RENOVATIONS  
Project No:  
23006

Project Address:  
301 J.C. Barr Blvd.  
Port Aransas TX 78373  
Nueces County

Project Date:  
April 25, 2023



Plumbing Floor  
Plans

P100

phone: 361.537.4400 erozypal@edrarchitects.com

Revision:

Issue



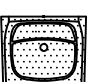

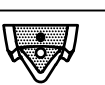


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PLUMBING FIXTURE SCHEDULE							
	REFER TO ARCHITECTURAL TAS/ADA SHEETS AND TAS/ADA REGULATIONS FOR MOUNTING HEIGHTS AND CLEARANCES.						
SYMB.	PLAN MARK	MINIMUM ROUGH-IN SIZES				DESCRIPTION	
		WST & VENT	DRAIN	CW	HW		
	ELEC. DRINKING FOUNTAIN EDF1 (BI LEVEL COOLER)	2"	1-1/2"	1-1/2"	1/2"	----	ELKAY NO. VRCTL8WSK "HI-LO" BARRIER FREE WATER COOLER AND BOTTLE STATION; TAS COMPLIANT, OUTDOOR RATED, 8 GPH CAPACITY, WALL HUNG, STANDARD FINISH, COLOR TO BE SELECTED BY ARCHITECT, S.S. TOP WITH INTEGRAL STRAINER, FRONT PUSH BUTTONS, AUTOMATIC STREAM REGULATOR, THERMOSTAT, AIR COOLED, R-134A, AND STANDARD FACTORY WARRANTY, 1/5 HP, 120V-1-60, MOUNT AT MAX. 38" FROM FLOOR TO LOWER SPOUT OUTLET AND MIN. 38-43" MAX. FOR UPPER UNIT; 98324C CANE TOUCH APRON: S.S., MOUNT ON UPPER UNIT; WALL CARRIER; WASTE: 1-1/4" 17 GA C.P. BRASS TAILPIECE, 1-1/4" 17 GA BRASS C.P. ADJ. "P"-TRAP W/ C.P. BRASS NUTS; SUPPLY: C.P. ANGLE SUPPLY W/STOP, 3/8" FLEX TUBE RISER.
	LAVATORY LV1 (WALL HUNG)	2"	1-1/2"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD NO.0356.421 "LUCERNE" WALL MOUNTED LAVATORY; TAS COMPLIANT, WHITE, FRONT OVERFLOW, WALL HANGER, SINGLE TAPPING; 1340.119 METERING FAUCET: C.P. BRASS BODY, VANDAL RESISTANT, 0.5 GPM, FACTORY 0.083 GALLON PER ACTIVATION; WASTE: 1-1/4" 17 GA C.P. BRASS TAILPIECE WITH GRID STRAINER, 1-1/4" 17 GA BRASS C.P. ADJ. "P"-TRAP W/C.O. AND C.P. BRASS NUTS, ESCUTCHEON; SUPPLY: C.P. ANGLE SUPPLIES W/STOPS, 3/8" FLEX TUBE RISERS, ESCUTCHEONS. PROVIDE TRUEBRO FACTORY CUT LAV SHIELD NO. 2018-AS-L FOR EXPOSED PIPING. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
	URINAL UR1	2"	2"	1-1/2"	3/4"	----	AMERICAN STANDARD No. 6590.001 "WASHBROOK" (KOHLER No. K-4991-ET "BARDON") URINAL: TAS COMPLIANT, WASH-OUT, V.C., WHITE, WALL HUNG, 3/4" TOP SPUD, 0.125 GAL. FLUSH, 14" LIP, MOUNT AT 17" A.F.F. TO TOP OF LIP; SLOAN ROYAL NO.186-0.125 FLUSH VALVE: 0.125 GPF, DIAPHRAGM TYPE, EXPOSED, C.P., 3/4" VACUUM BREAKER TOP SPUD, MANUAL OPERATED; WALL CARRIER.
	URINAL UR2	2"	2"	1-1/2"	3/4"	----	AMERICAN STANDARD No. 6590.001 "WASHBROOK" (KOHLER No. K-4991-ET "BARDON") URINAL: WASH-OUT, V.C., WHITE, WALL HUNG, 3/4" TOP SPUD, 0.125 GAL. FLUSH, 14" LIP, REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT; SLOAN ROYAL NO.186-0.125 FLUSH VALVE: 0.125 GPF, DIAPHRAGM TYPE, EXPOSED, C.P., 3/4" VACUUM BREAKER TOP SPUD, MANUAL OPERATED; WALL CARRIER.
	WATER CLOSET WC1 (WALL HUNG FLUSH VALVE)	4"	2"	4"	1"	----	AMERICAN STANDARD NO. 2257.101.020 "AFWALL", KOHLER NO. K-4325 "KINGSTON" FLUSH VALVE WATER CLOSET: ADULT TAS COMPLIANT, 15"-17" MAX. TOP OF SEAT, WALL MOUNTED, BACK OUTLET, ELONGATED, V.C., 1.28 GPF SIPHON FLUSH, ELONGATED, 1-1/2" TOP SPUD, WHITE; CHURCH 255SSC SEAT: ELONGATED, PLASTIC, WHITE, OPEN FRONT, SS POSTS, SELF SUSTAINING CHECK HINGE; SUPPLY: SLOAN 111-1.28 "ROYAL" FLUSH VALVE: LEVER HANDLE, DIAPHRAGM VALVE, VACUUM BREAKER, C.P. EXPOSED, ESCUTCHEON, 1.28 GPF, MOUNT MANUAL FLUSH 25" MAX. A.F.F. AT WIDE SIDE OF STALL; WATER CLOSET CARRIER.
	WATER CLOSET WC2 (WALL HUNG FLUSH VALVE)	4"	2"	4"	1"	----	AMERICAN STANDARD NO. 2257.101.020 "AFWALL", KOHLER NO. K-4325 "KINGSTON" FLUSH VALVE WATER CLOSET: 15" TOP OF SEAT, WALL MOUNTED, BACK OUTLET, ELONGATED, V.C., 1.28 GPF SIPHON FLUSH, ELONGATED, 1-1/2" TOP SPUD, WHITE; CHURCH 255SSC SEAT: ELONGATED, PLASTIC, WHITE, OPEN FRONT, SS POSTS, SELF SUSTAINING CHECK HINGE; SUPPLY: SLOAN 111-1.28 "ROYAL" FLUSH VALVE: LEVER HANDLE, DIAPHRAGM VALVE, VACUUM BREAKER, C.P. EXPOSED, ESCUTCHEON, 1.28 GPF, MOUNT MANUAL FLUSH 42" MAX. A.F.F. AT WIDE SIDE OF STALL; WATER CLOSET CARRIER.

PLUMBING PIPE MATERIALS SCHEDULE	
PIPING SYSTEM	PIPING MATERIAL
SANITARY DRAIN AND VENTS ABOVE GRADE	SCHEDULE 40 DWV PVC*
DOMESTIC COLD WATER ABOVE GRADE	COPPER, TYPE "L" HARD DRAWN
COLD WATER PIPE INSULATION	1" RIGID FIBER GLASS
*SCHEDULE 40 DWV PVC SHALL NOT BE USED IN RETURN AIR PLENUMS. WHERE CEILING PLENUMS ARE USED FOR RETURN AIR, CONTRACTOR SHALL ONLY USE BELL AND SPIGOT SERVICE WEIGHT CAST IRON PIPE.	



ENGINEERING

4/25/2023



6666 S. Staples, Suite 312  
Corpus Christi, TX 78413  
P: (361)852-2727 F: (361)852-2922  
Texas Firm Registration No. F-005318

23028

EDRarchitects

phone: 361.537.4400    erozypal@edrarchitects.com

Project Address:

301 J.C. Barr Blvd.  
Port Aransas TX 78373  
Nueces County

Project Name:

COPA-MARINA  
RESTROOM/SHOP  
RENOVATIONS

Project No:

23006

Project Date:

April 25, 2023

Plumbing Schedules

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Sheet Title

Plumbing Schedules