# **COPA MARINA-ROBERT'S POINT RESTROOM RENOVATIONS** 301 J.C. BARR BLVD., PORT ARANSAS, TX 78373

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A100	ARCHITECTURAL-SCHEMATIC SITE-IFC 04-25-23			
A200	ARCHITECTURAL-PLANS I-IFC 04-25-23			
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P100	PLUMBING-FLOOR PLAN-IFC 04-25-23			
P201	PLUMBING-SCHEDULES-IFC 04-25-23			

# **Project Team**:

Architect:

# Owner:

City of Port Aransas 710 W. Avenue A Port Aransas, TX 78373 phone: 361.749.4111 Attn. David Parsons

# Structural & Windstorm:

**REM Engineering** REM Engineering 6800 Park Ten Blvd. Suite 239E San Antonio, Texas 78213 (210) 320-1199 (office) Attn. Robert Martinez, P.E.

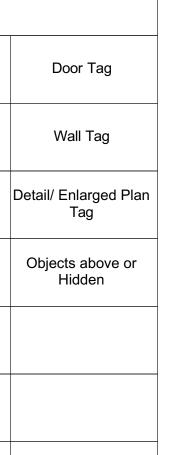
# <u>Civil:</u>

**Urban Engineering** 2725 Swantner Dr. Corpus Christi, TX 78404 phone: 361.854.3101 fax:361.854.6001 Attn. Mr. Murf Hudson, P.E. NRG Engineering 5656 S. Staples, Ste. 360 Corpus Christi, TX 78411 phone: 361.852.2727 fax: 361.852.2922 Attn. Mr. John Rodriguez, P.E.

# Symbol Legend:

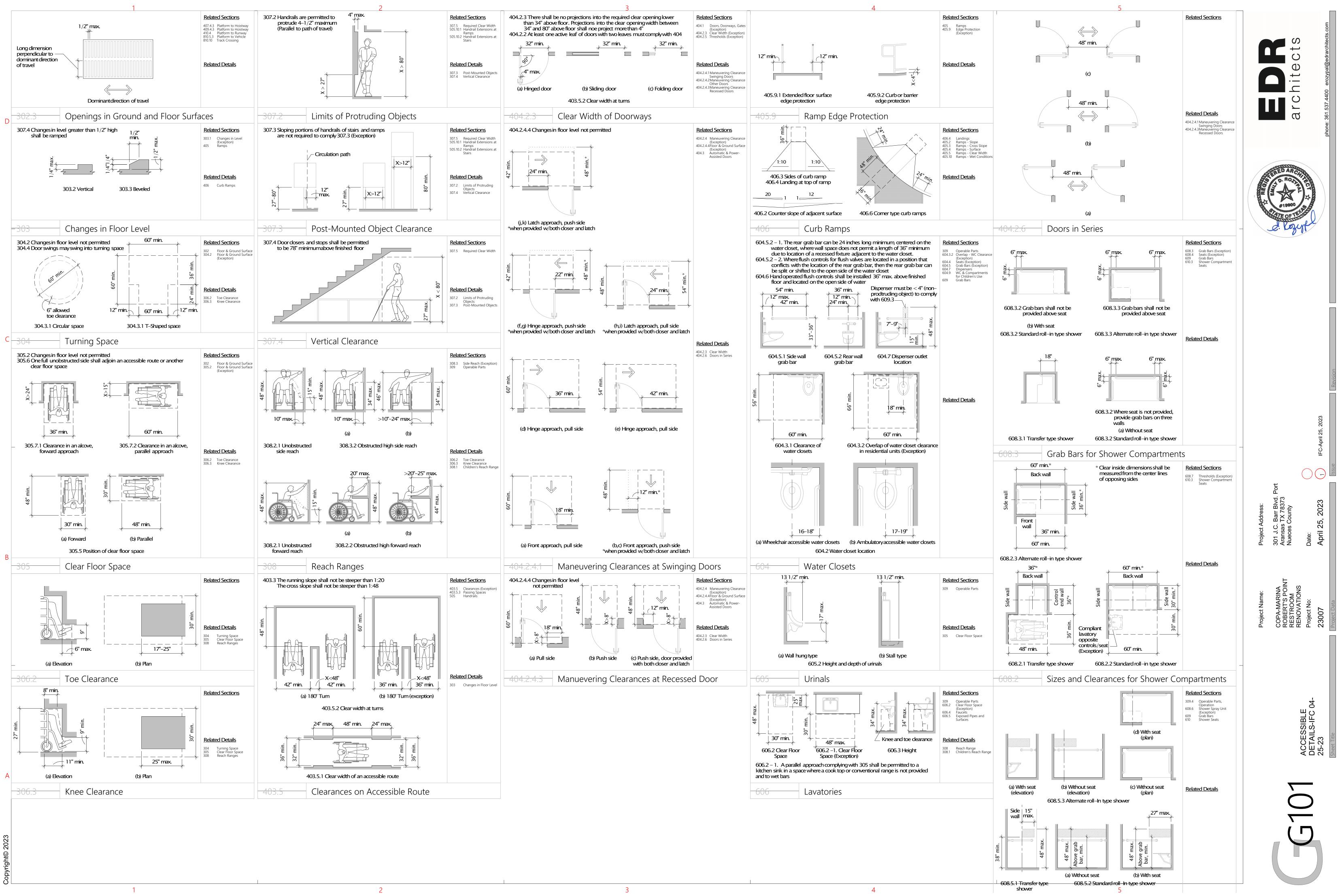
	Revision Tag	(100A)
MATCH LINE SEE XX/X-XXX	Match Line	A
N	North Arrow	
C1 A800	Elevation Marker	
- <del>-</del>	Height Marker	
C1 A800 A800	Section Marker	
A	Window Tag	

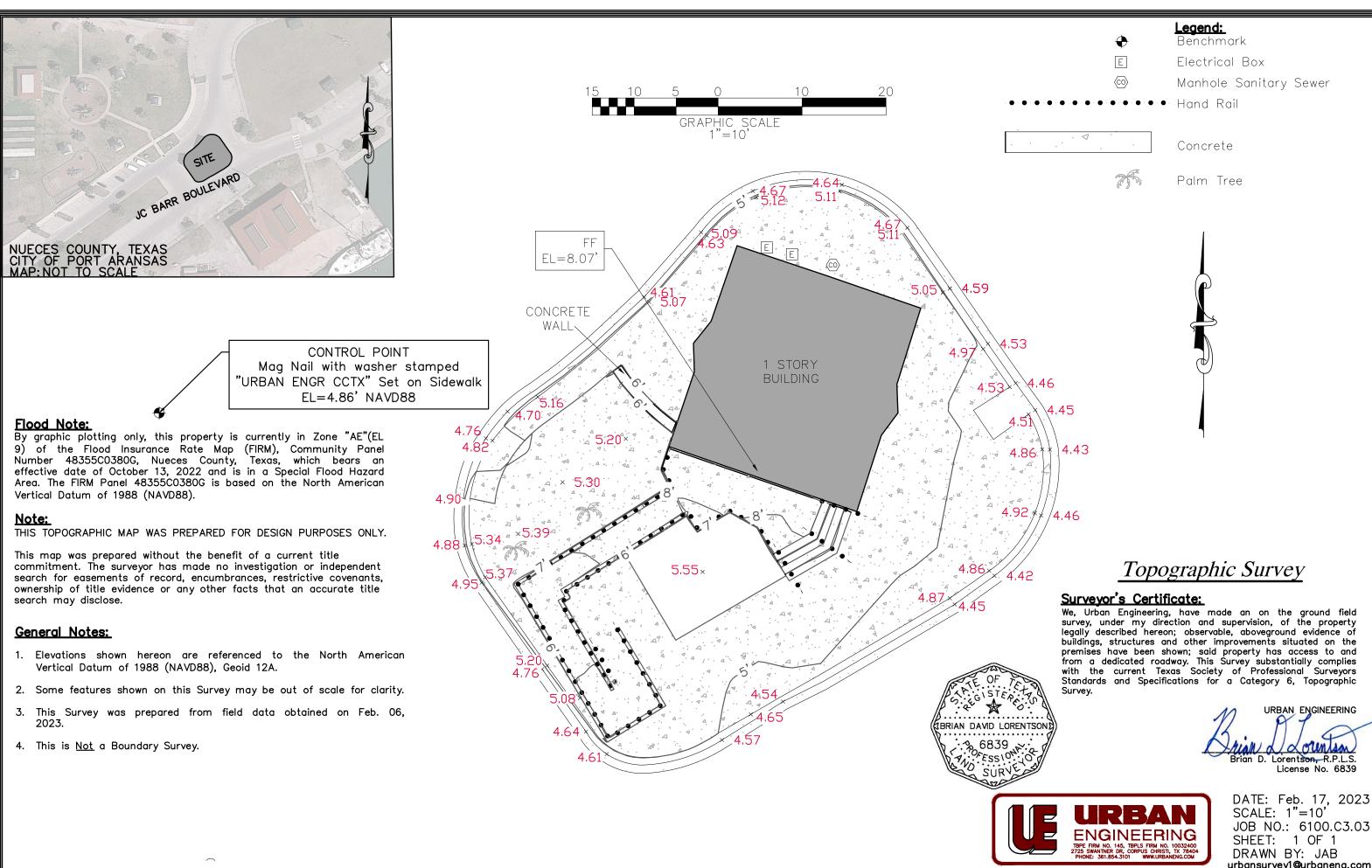
<b>EDR Architects, PLLC</b> PO Box 271613 Corpus Christi, TX 78427 phone: 361.537.4400 Attn. Emily D. Rozypal, AIA
<u>MEP:</u>
<b>NRG Engineering</b> 5656 S. Staples, Ste. 360 Corpus Christi, TX 78411



DESIGN CRITER	RIA / FACILITY DATA / CODE EVALUATION		
Site Address	301 J.C. Barr Blvd., Port Aransas, TX 78373, Nueces Coun		
Applicable Building Codes	2015 International Building Codes		
	The Building Inspection Division maintains and enforces the		
	technical construction codes adopted by the City of Port		
	Aransas, TX. 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, Fue		
	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.		
	Frevention Association (NFFA) and National Electric Code.		
Applicable Energy Code	2015 IECC		
	Insulation Materials and R-Values:		
	Not Applicable (Non-conditioned renovation only)		
	Fenestration U Factors and SHGC's:		
	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: 575 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	Total Occupant Load: 5.75 Occupants Max		
Plumbing Fixture Count	(575/100=5.75) 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 Requirments	Existing, No Change		



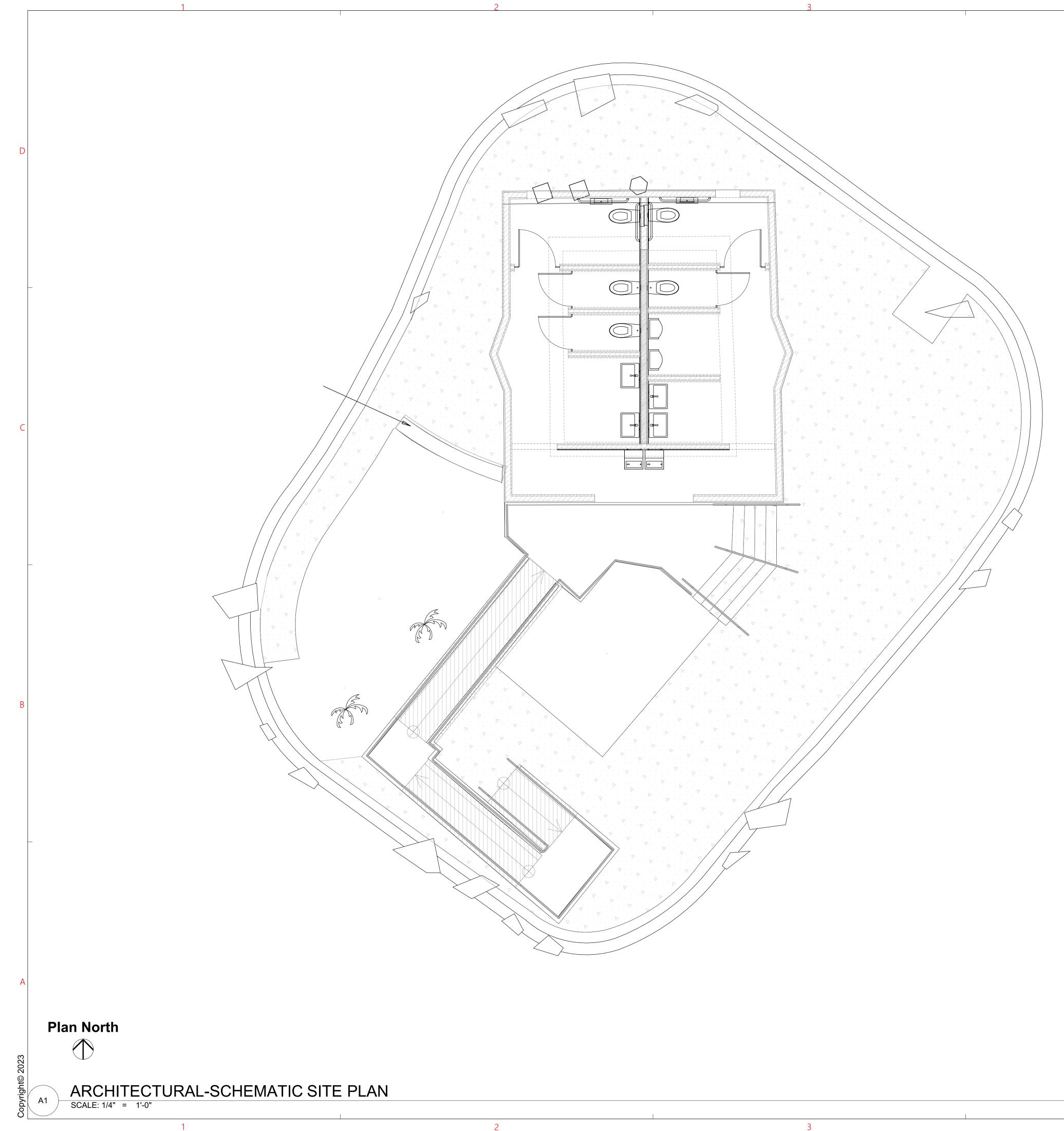




survey, under my direction and supervision, of the property legally described hereon; observable, aboveground evidence of buildings, structures and other improvements situated on the premises have been shown; said property has access to and from a dedicated roadway. This Survey substantially complies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

URBAN ENGINEERING ounisa Brian D. Lorentson, R.P.L.S.

JOB NO.: 6100.C3.03 urbansurvey1@urbaneng.com ©2023 by Urban Engineering



# ARCHITECTURAL GENERAL NOTES: 1. Contractor shall field verify all dimensions and notify Architect if discrepancies

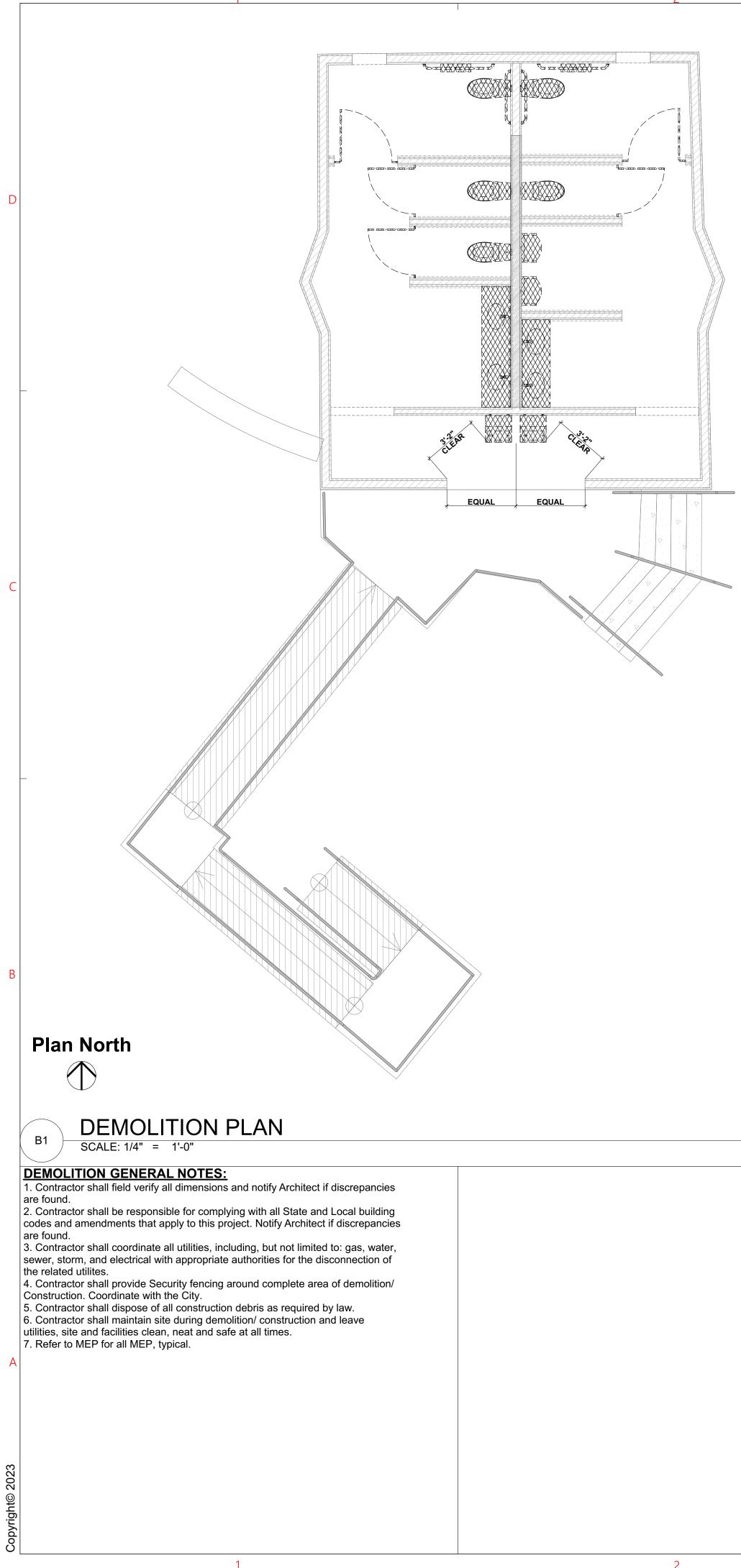
- are found. 2. Contractor shall be responsible for complying with all State and Local building codes and amendments that apply to this project. Notify Architect if discrepancies are found.
- discrepancies are found.
  3. Architectural Dimensions are to face of stud, face of CMU, or outside face of foundation, 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.

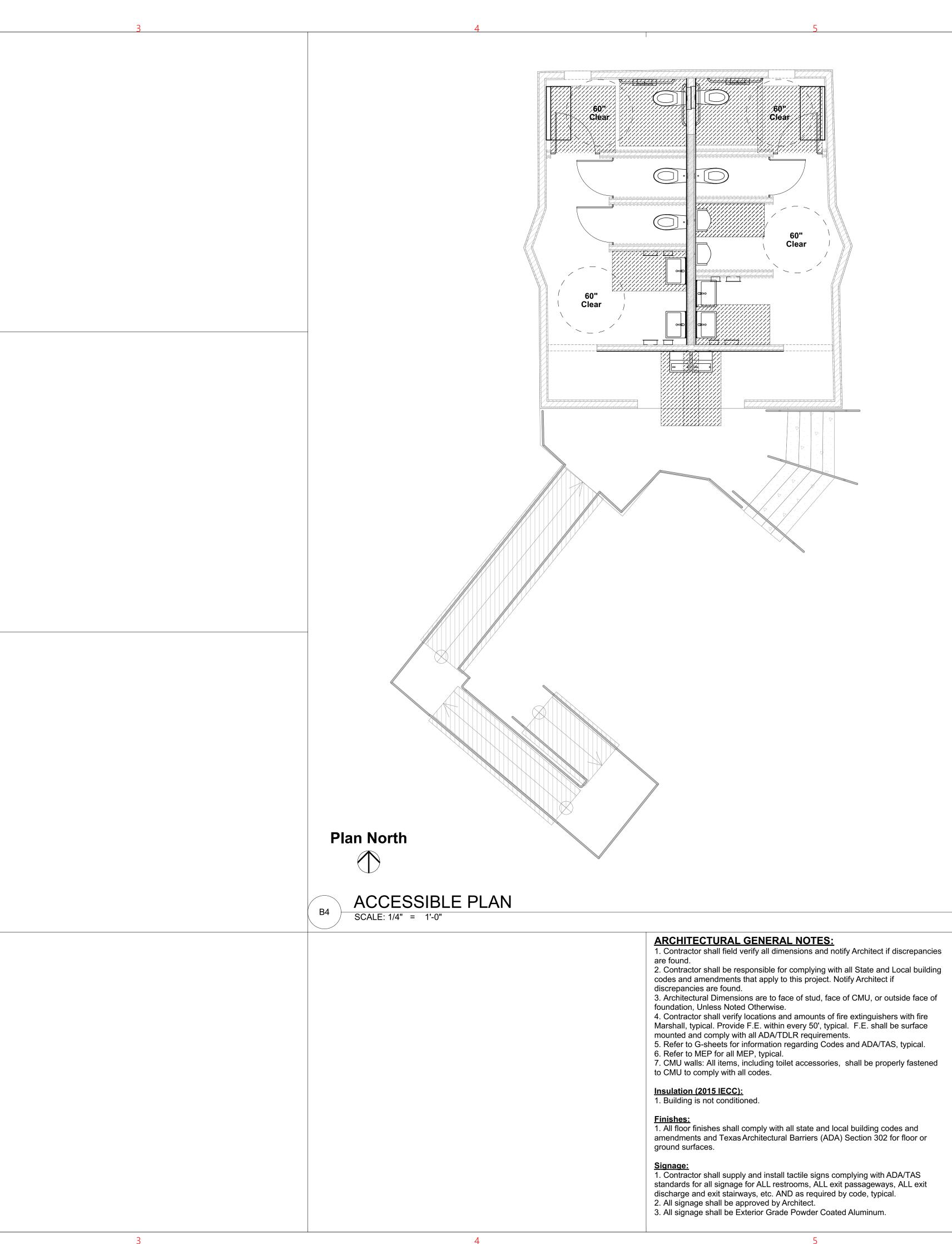
Insulation (2015 IECC): 1. Building is not conditioned.

**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.

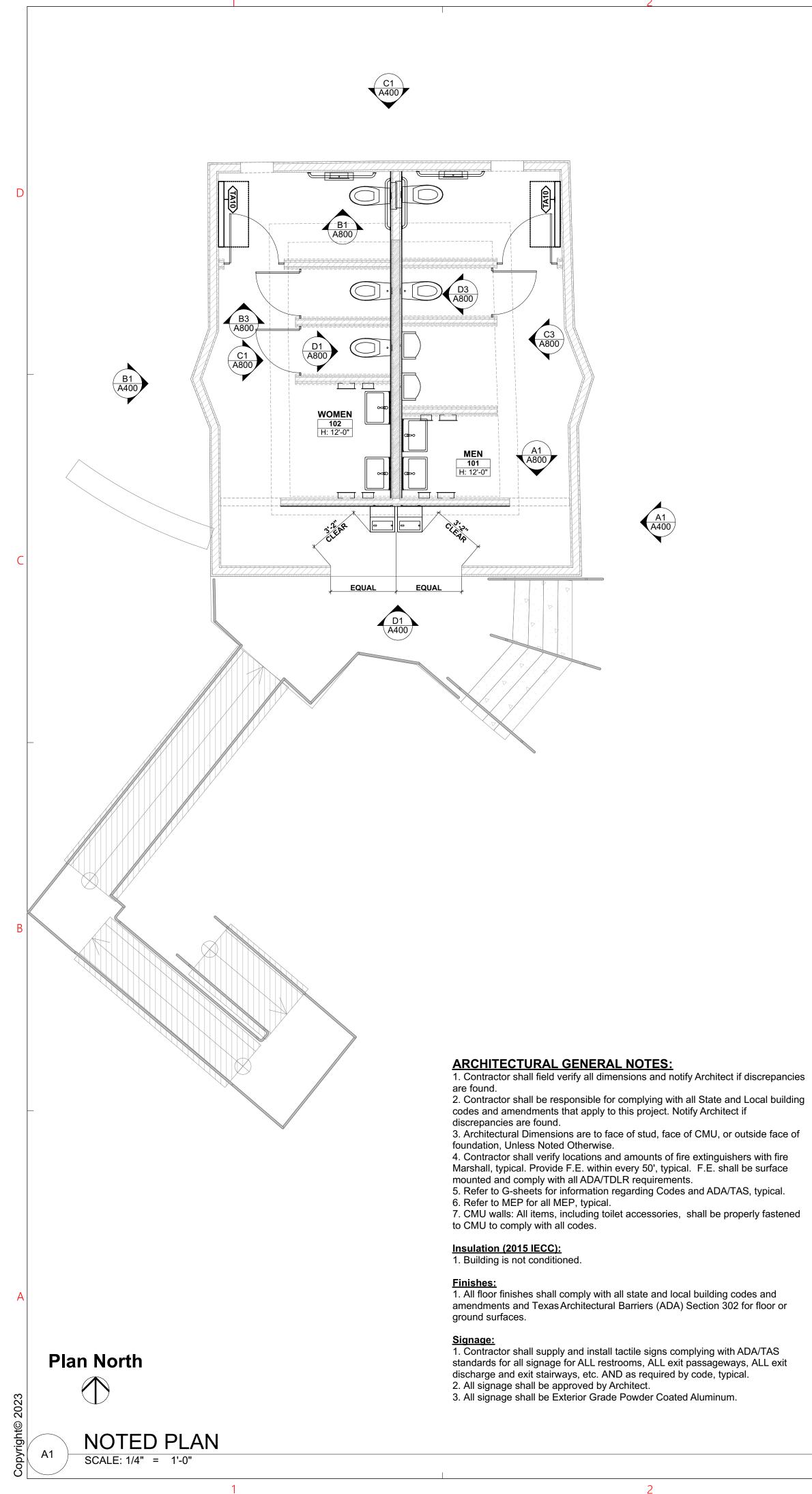
	architects		phone: 361.537.4400 erozypal@edrarchitects.com	
State Register	ERED ARCAN T.D. ROZZAN F19800 STATE OF TEL			
				Revision
	( E		1 IFC-April 25, 2023	Issue
Project Address:	301 J.C. Barr Blvd. Port Aransas TX 78373 Nueces County	Date:	April 25, 2023	
Project Name:	COPA-MARINA ROBERT'S POINT RESTROOM RENOVATIONS	Project No:	23007	Project Data
		-SCHEMATIC	SITE-IFC 04-25-23	Sheet Title

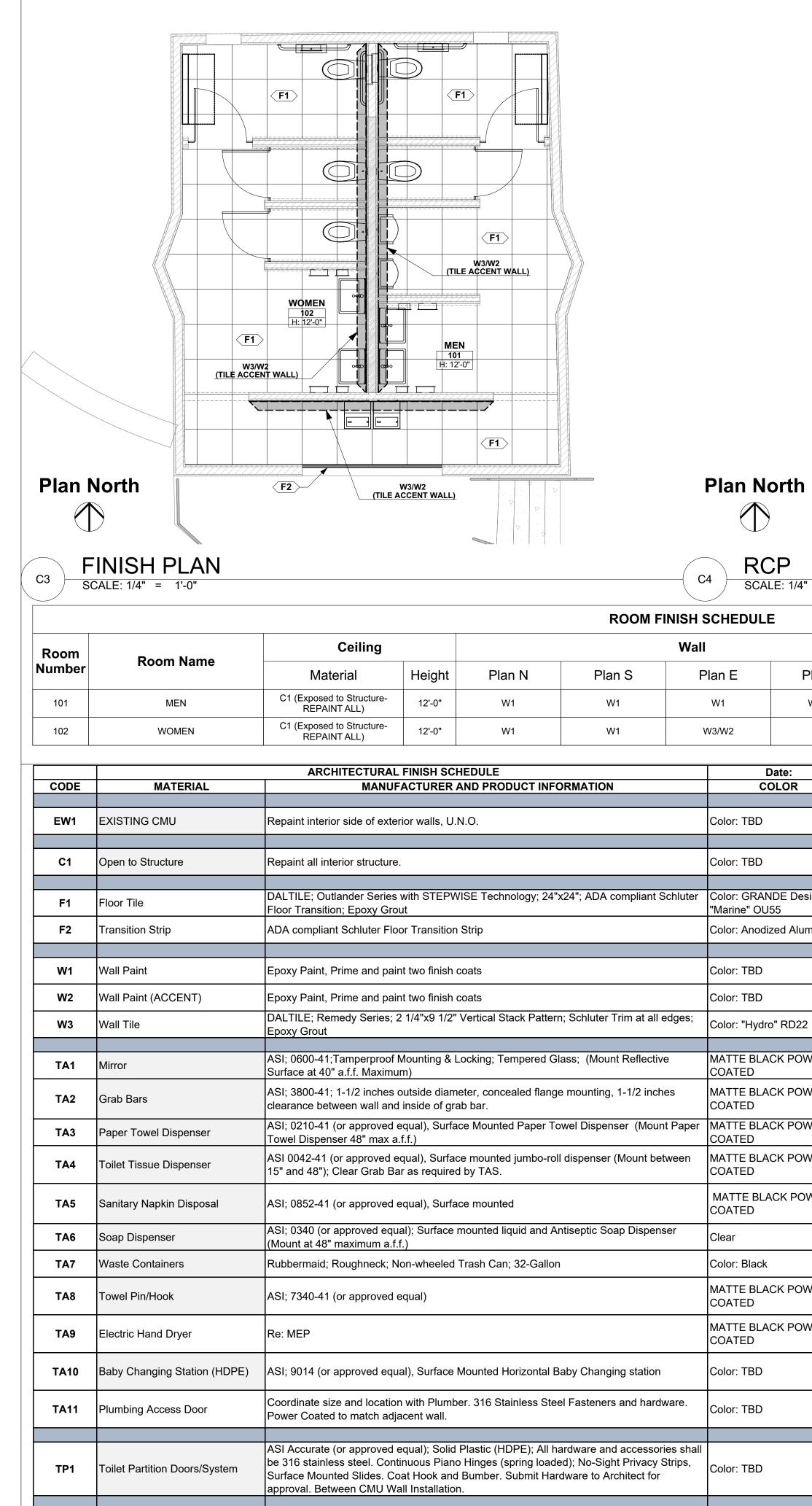


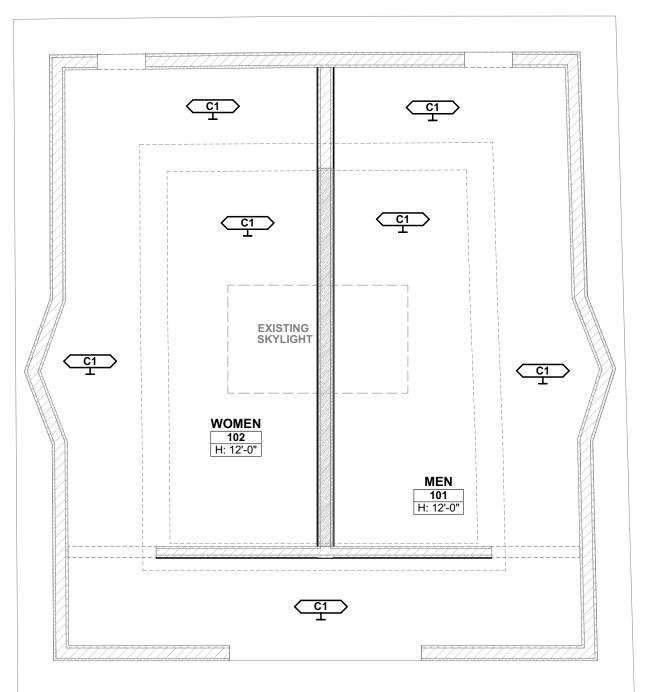


3. Architectural Dimensions are to face of stud, face of CMU, or outside face of

	architects		phone: 361.537.4400 erozvpal@edrarchitects.com	
A REQUEST	ERED ARCA			
				Revision
dress:	301 J.C. Barr Blvd. Port Aransas TX 78373 Nueces County		<b>2023</b> (1) IFC-April 25, 2023	Issue
Project Name: Project Address:	COPA-MARINA 301 J.C. Barr Bl ROBERT'S POINT Aransas TX 783 RESTROOM Nueces County RENOVATIONS	Project No: Date:	23007 April 25, 2023	Project Data
		ARCHITECTURAL -PLANS I-IFC 04-	25-23	Sheet Title
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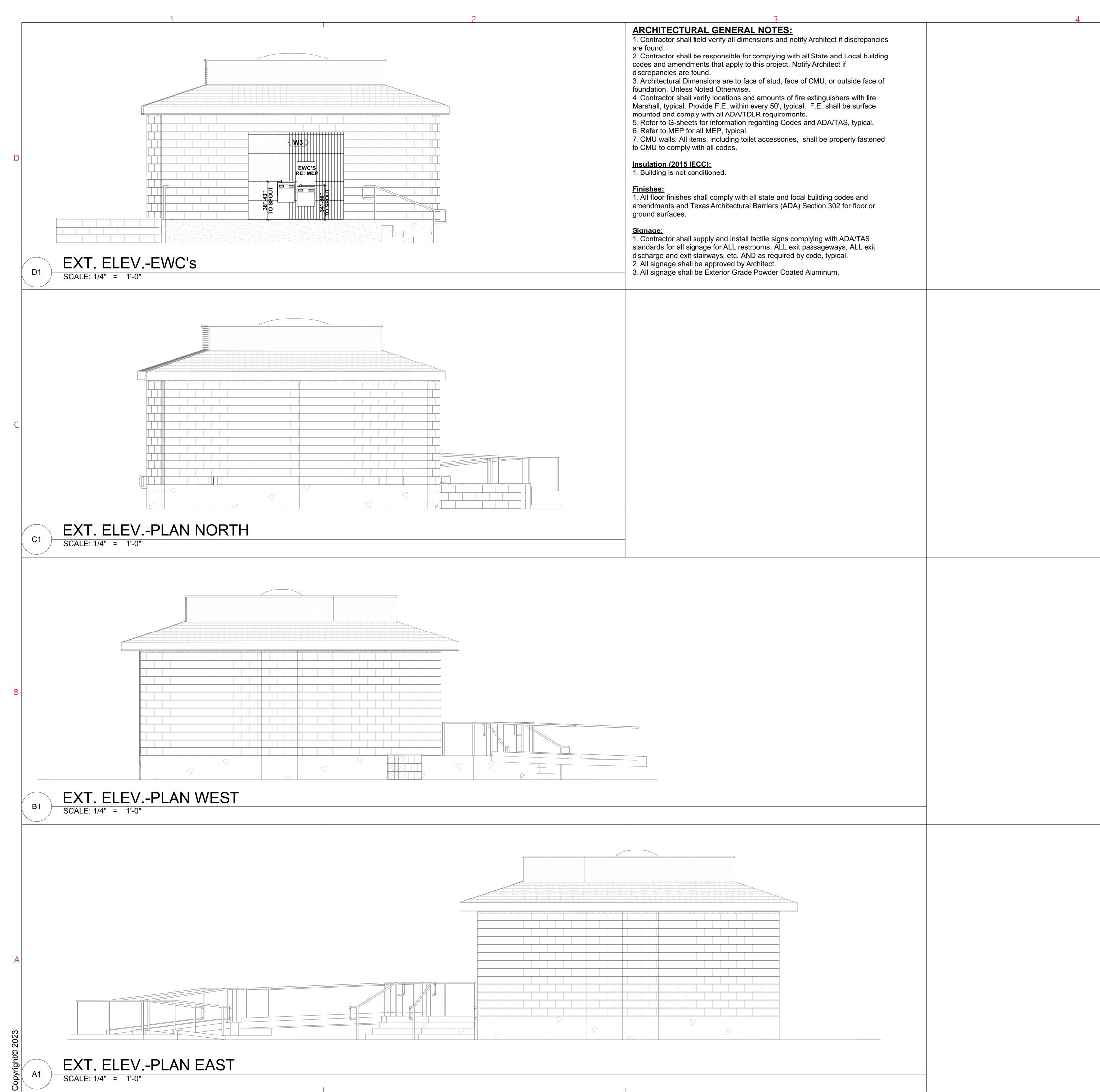


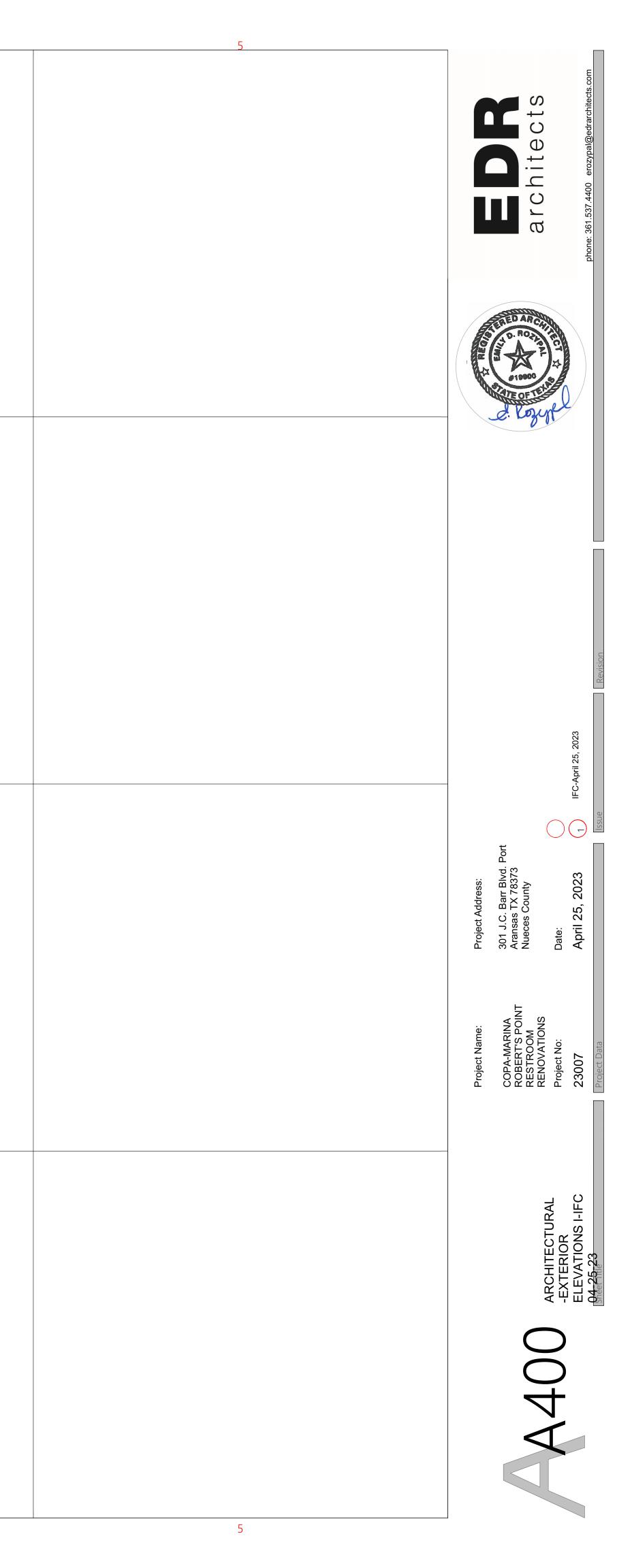
SCALE: 1/4" = 1'-0"

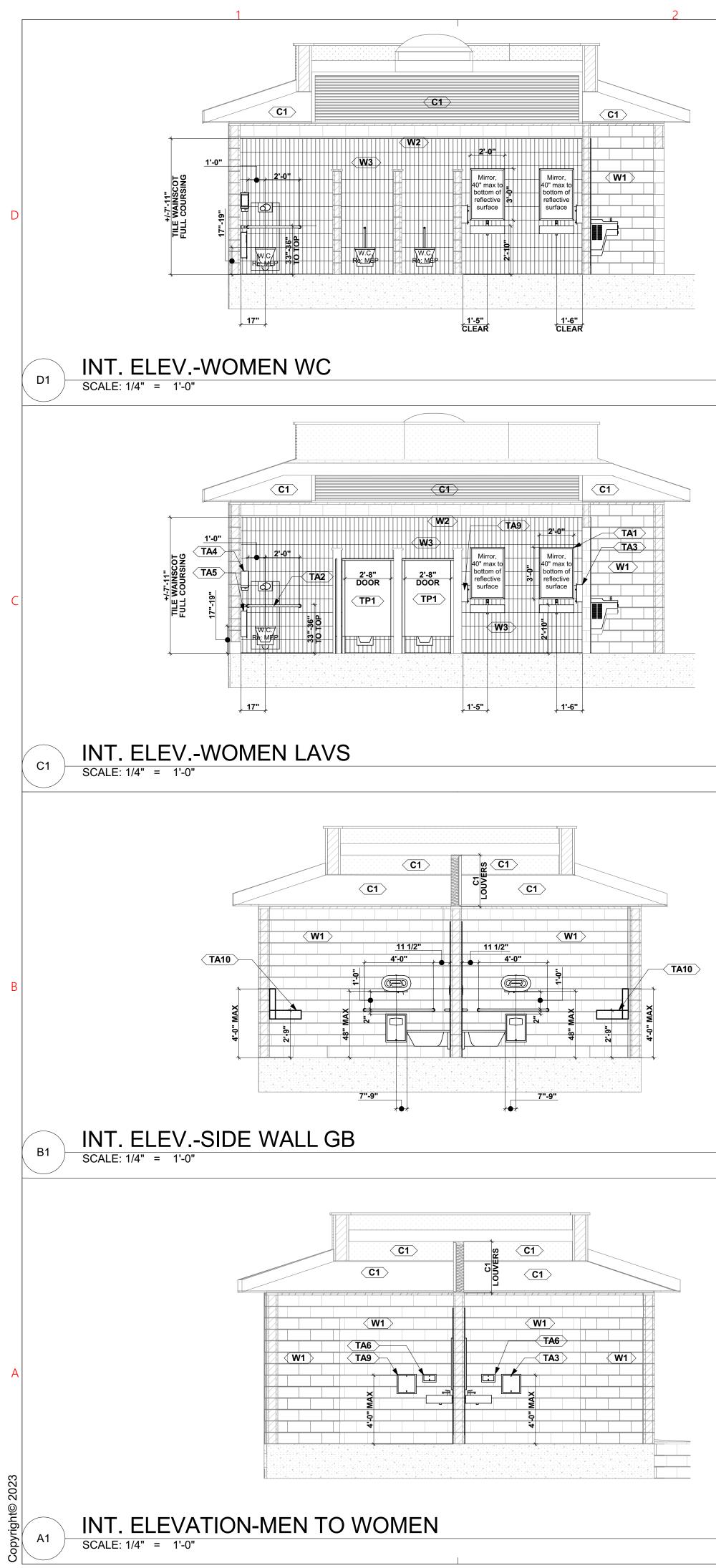
	Floor	Millwork		Netes			
Plan W	Base	Floor	Counter Millwork Finish		Notes		
W3/W2	-	F1/F2	-	-	TA1, TA2, TA3, TA4, TA6, TA7, TA8, TA9, TA10, TA11, TP1		
W1	-	F1/F2	-	-	TA1, TA2, TA3, TA4, TA5, TA6, TA7, TA8, TA9, TA10, TA11, TP1		

Date:		4/25/2023
DLOR	DIMENSIONS	APPLICATION NOTES
		Install per manufacturer's recommendations for full
		system warranties for Block and Paint.
		Install per manufacturer's recommendations for full
		system warranty.
IDE Design;		Install per manufacturer's recommendations for full
55		system warranty.
zed Aluminum		Install per manufacturer's recommendations for full
		system warranty.
		Install per manufacturer's recommendations for full
		system warranty.
		Install per manufacturer's recommendations for full
		system warranty.
o" RD22		Install per manufacturer's recommendations for full
		system warranty.
CK POWDER	Re: Interior Elevations	Install per manufacturer's recommendations. Locations:
		All Lavatory locations in All Restrooms.
CK POWDER	Length: 36", 42" and 48" <u>and</u>	Install per manufacturer's recommendations. Locations:
	additional as required to comply	All Accessible Water Closet Locations in All Restrooms.
	with TAS/ADA.	
CK POWDER		Install per manufacturer's recommendations. Locations:
		All Lavatory locations in All Restrooms.
CK POWDER		Install per manufacturer's recommendations. Locations:
		All Water Closet locations in All Restrooms.
	1	Install per manufacturer's recommendations. Locations:
CK POWDER		All Water closet locations in all Women's restrooms and
		single user restrooms.
		Install per manufacturer's recommendations. Locations:
		All Lavatory locations in All Restrooms.
		Install per manufacturer's recommendations. Locations:
		All Restrooms.
CK POWDER		Install per manufacturer's recommendations. Locations:
		All Water Closet stall locations in All Restrooms.
CK POWDER		Install per manufacturer's recommendations. Locations:
		Verify amount and locations with MEP.
		Install per manufacturer's recommendations. Locations:
		One per Restroom.
		Install per manufacturer's recommendations. Locations:
		Verify amount and locations with MEP.
		Install per manufacturer's recommendations for full
		system warranty. Include all trim and accessories.

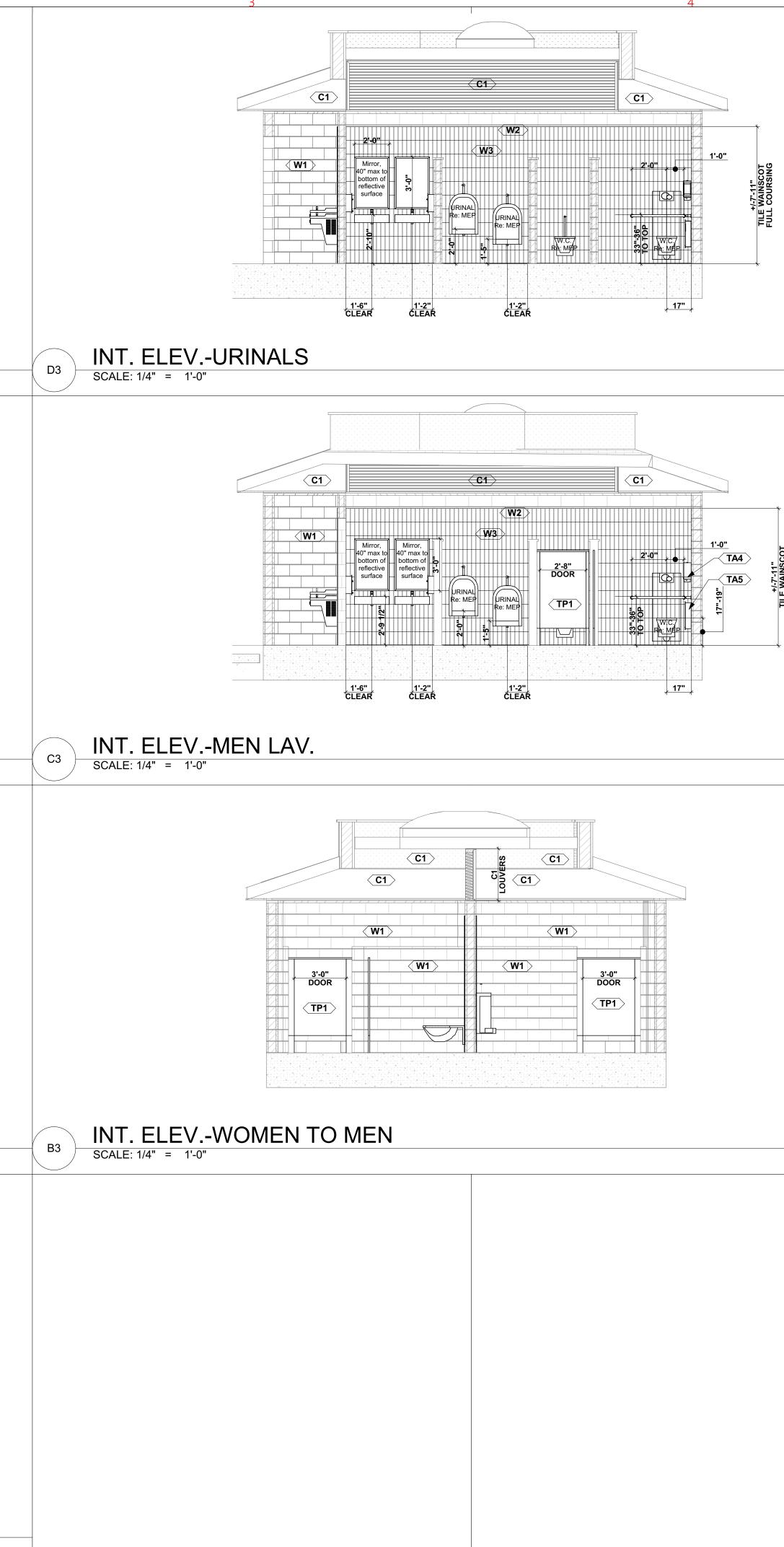
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	(	$\bigcirc$	1 IFC-April 25, 2023	Issue
Project Address:	301 J.C. Barr Blvd. Port Aransas TX 78373 Nueces County	Date:	April 25, 2023	
Project Name:	COPA-MARINA ROBERT'S POINT RESTROOM RENOVATIONS	Project No:	23007	Project Data
		-PLANS II-IFC 04-	25-23	Sheet Title







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### ARCHITECTURAL GENERAL NOTES:

1. Contractor shall field verify all dimensions and notify Architect if discrepancies are found. 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.
 Architectural Dimensions are to face of stud, face of CMU, or outside face of the state 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.

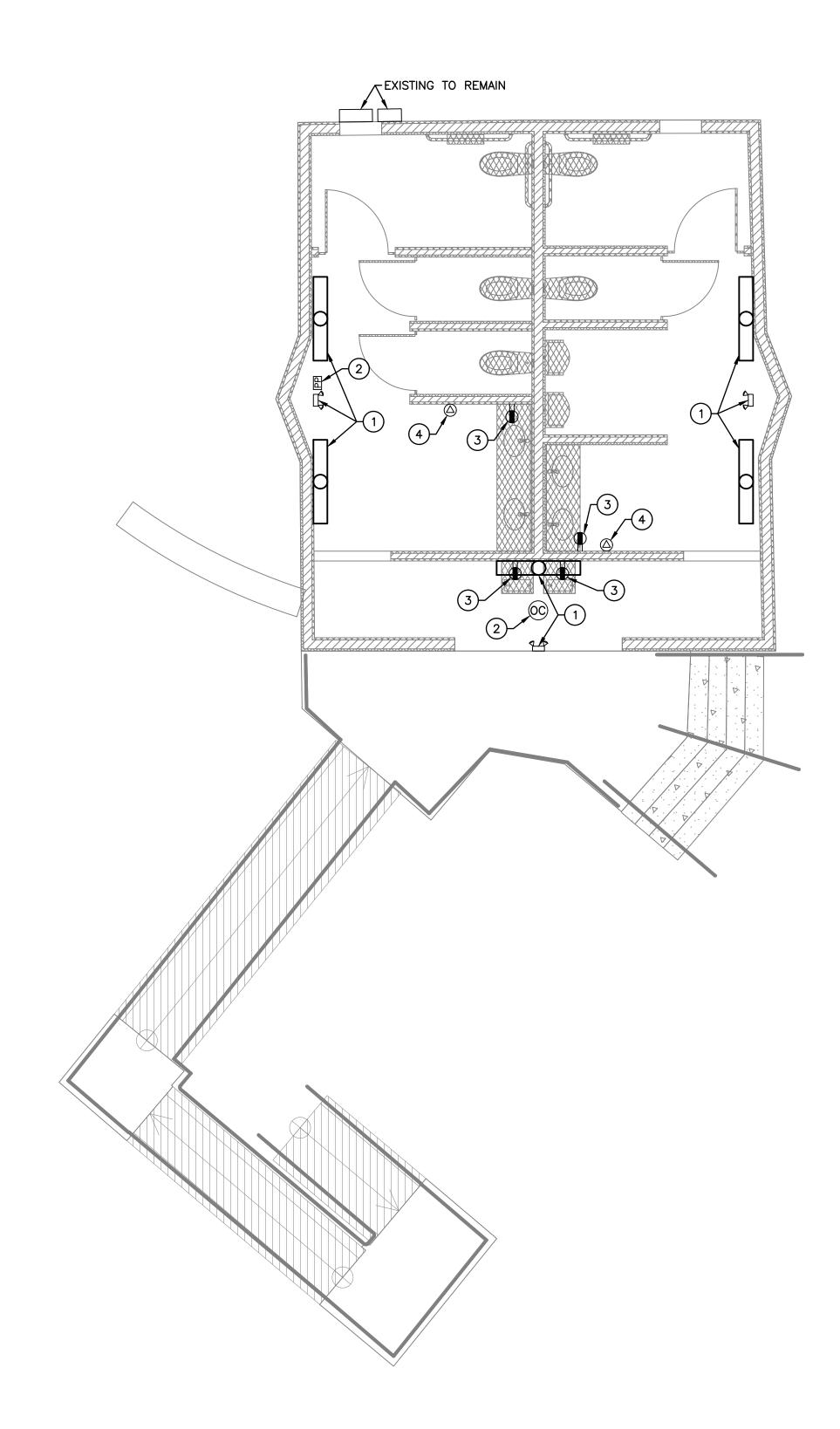
Insulation (2015 IECC): 1. Building is not conditioned.

**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.

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# ELECTRICAL DEMOLITION PLAN

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### **DEMOLITION GENERAL NOTES:**

- A. 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.
- B. WHEN OUTLETS ARE REMOVED, CONDUIT AND WIRE SHALL BE REMOVED BACK TO THE NEAREST REMAINING ACTIVE J-BOX OR PANEL.
- C. RECONNECT ALL LIGHTS THAT MAY HAVE BEEN INTERRUPTED BECAUSE OF REMODELING WORK.
- D. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE, OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.
- E. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
- F. 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:

- 1 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.
- 2 EXISTING MOTION SENSOR AND POWER PACK TO BE REMOVED AND REPLACED REFERENCE ELECTRICAL EL REMOVED AND REPLACED. REFERENCE ELECTRICAL FLOOR PLAN ON SHEET E200 FOR ADDITIONAL INFORMATION.
- 3 EXISTING RECEPTACLES TO BE REMOVED AND REPLACED WITH NEW RECEPTACLE. MAINTAIN EXISTING CIRCUIT. REFERENCE ELECTRICAL FLOOR PLAN ON SHEET E200 FOR ADDITIONAL INFORMATION.
- 4 EXISTING HAND DRYERS TO BE REMOVED AND REPLACED. MAINTAIN EXISTING 120V CIRCUIT AND CONNECTION. REFERENCE ELECTRICAL FLOOR PLAN ON SHEET E200 FOR ADDITIONAL INFORMATION.







COLOR CODE	COVER COLOR
-41	Matte Black
-93	Satin Stainless Steel

	RATINGS								
MODEL	ТҮРЕ	AIR VELOCITY	TIMING SAFETY	SUPPLY	AMPS	WATTS	COLOR		
0196-1				110 V-120 VAC 50/60 Hz	8.33				
0196-2	Hand	208-257 mph 93-115 m/s	Automatic 60 second Shut-Off	220 V-240 VAC 50/60 Hz	4.17	1250	White*		
0196-3				277 VAC 60 Hz	4.17				

MOTOR	H/P	RPM x1000	FAN TYPE	HEATING ELEMENT	AIR FLOW	AIR OUTPUT TEMPERATURE
Brush Type Dual Ball Bearings	.67	16-29	Multi-Inlet Centrifu- gal	325-500 Watt Nichrome wire with auto reset circuit breaker and ON-OFF option	55-72	$131^{\circ} F \pm 5 @ 77^{\circ} F$ (55° C ± 2.4 @ 25° C) Ambient room temp

NET WT	SHIP WT	DRYING TIME	SENSING RANGE	SAFETY	WATER PROTECTION
9.3 Lbs	10.4 Lbs	Less Than	$\begin{array}{l} 3\text{-}15/16" \sim 9\text{-}1/16" \ [100\text{-}230] \\ \text{ADJUSTABLE} \\ \text{Standard} = 6\text{-}11/16" \pm 3/4" \\ [170 \pm 20] \end{array}$	C-UL-US®,	Drip Proof
4.2 kg	4.7 kg	15 seconds		CE, TÜV-GS	IP24

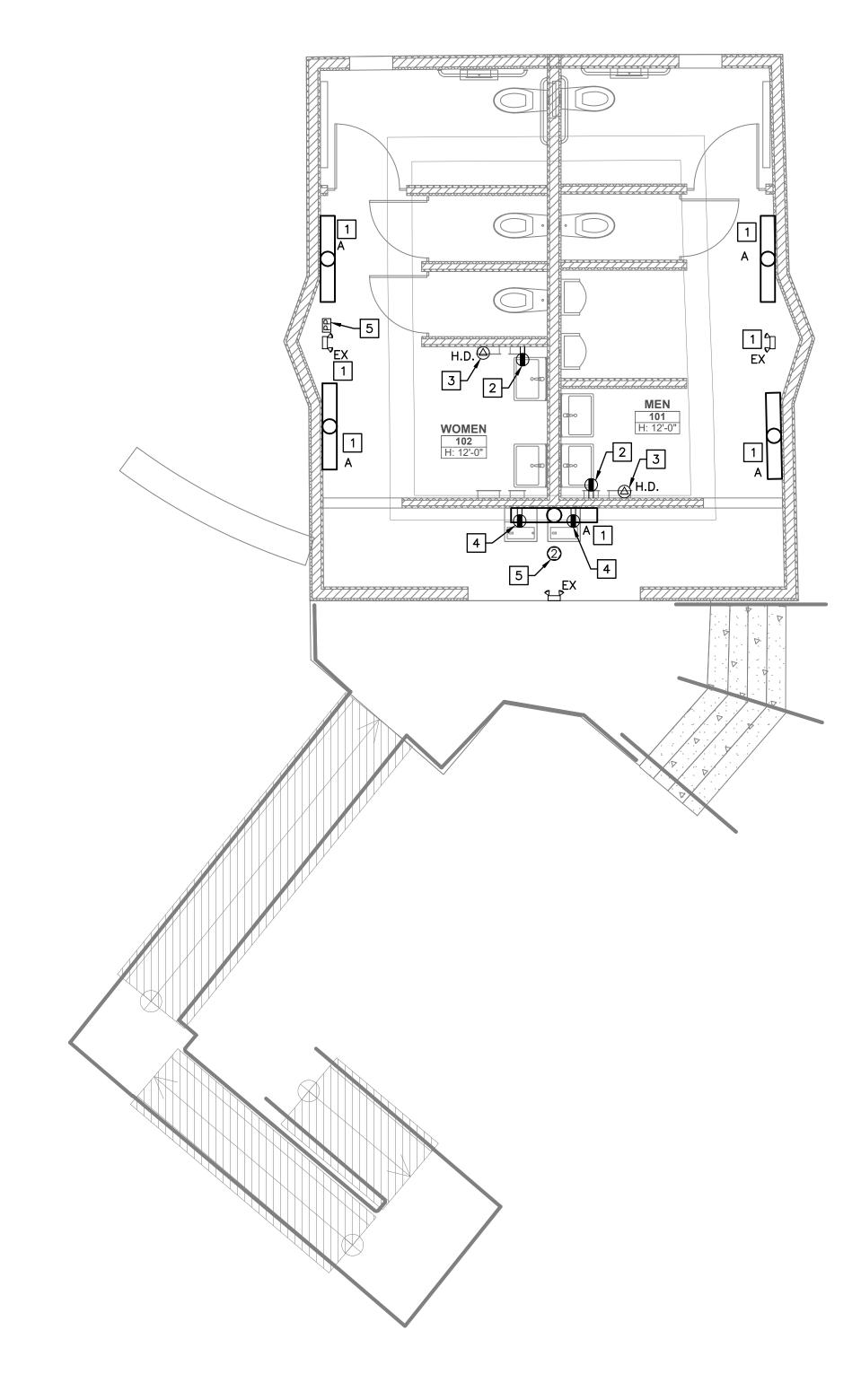
SENSOR	DRYING	MOTOR THERMAL	HEATER THERMAL	SOUND
TYPE	PERSISTENCE	PROTECTION	PROTECTION	PRESSURE
IR 780 nm	Automatic ≤2 second Hold- On Shut-Off delay	Shut off @ > 203 °F {> 95 °C}	Shut off @ > 185 °F {> 85 °C} Reset on @ < 167 °F {< 75 °C}	68-73.8 dB-A @ 2m

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		LIGHT FI	XTURE SC	HEDULE			
TYPE	MANUFACTURER & CATALOG NO.	VOLTAGE	WATTS	LUMENS	TEMP	MOUNTED	DESCRIF
Α	LITHONIA #FEM-L48-4000LM-LPAFL-MD-120-GZ10-40K-80CRI-ANGBKT	120	24	4000	4000K	WALL MOUNT	4' AIMABLE VAPOR TIG
EX	LITHONIA #ELM6L-UVLOT-LTP-SDRT-WPVS	120	3	1000	-	SURFACE	EMERGENCY LED

NOTE #2: CBA = COLOR BY ARCHITECT



# Plan North





ELECTRICAL FLOOR PLAN

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

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iption GHT		

### **GENERAL NOTES:**

- A. 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.
- B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- D. ALL CONDUIT SHALL BE AS STRAIGHT AS POSSIBLE AND PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- E. ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATIONAL ELECTRICAL CODE.
- F. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.G. ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS
- AND/OR ABOVE CEILINGS. WHERE APPLICABLE H. REFER TO DETAIL #1/SHEET E300 FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

### FLOOR PLAN KEY NOTES:

- 1 NEW LIGHT FIXTURES TO BE RECONNECTED TO EXISTING LIGHTING CIRCUIT.
- 2 EXISTING RECEPTACLE TO BE REMOVED, REPLACED AND RECONNECTED TO EXISTING CIRCUIT. COORDINATE RECEPTACLE FACEPLATE FINISH WITH ARCHITECT PRIOR TO ORDERING.
- 3 PROVIDE NEW HAND DRYERS TURBO-PRO HIGH-SPEED ADA HAND DRYER-MATTE BLACK #0196-1-41 TO BE RECONNECTED TO EXISTING 120V CIRCUIT.
- 4 EXISTING RECEPTACLE TO BE REMOVED, REPLACED, AND RECONNECTED TO EXISTING CIRCUIT FOR NEW ELECTRIC DRINKING FOUNTAIN.
- 5 NEW SENSOR/POWER PACK TO BE RECONNECTED TO INTERIOR LIGHTS. LIGHTS SHALL FUNCTION AS AUTO (ON/OFF).

ALL EXISTING LIGHT FIXTURES TO BE REMOVED AND REPLACED, UNLESS OTHER WISE NOTED. MAINTAIN ALL EXISTING CIRCUITS. SEAL TIGHT ALL LIGHTS

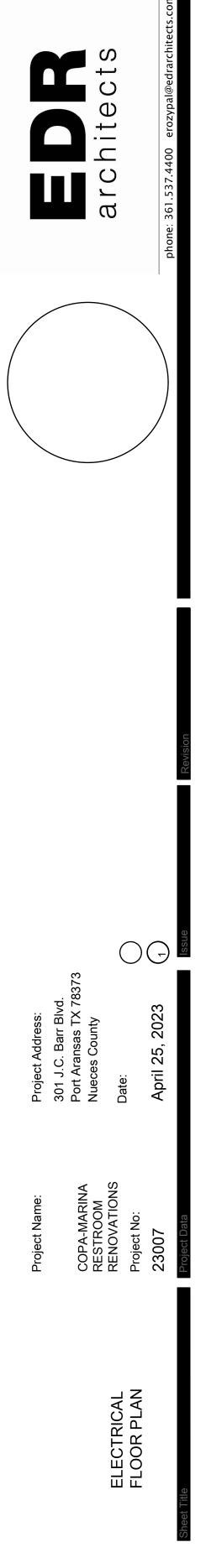
С	CCUPANCY SENSOR SCHEDULE (SOME MAY NOT BE USED)
2P	SENSORSWITCH POWER PACK #PP20 2P
PP	SENSORSWITCH POWER PACK #PP20
1	SENSORSWITCH #CM9
2	SENSORSWITCH #CM9-PDT
<del>-</del> 3	SENSORSWITCH #WV-PDT-16-WVBR
-4	SENSORSWITCH #HWR13-WH
5	SENSORSWITCH #CM10
6	SENSORSWITCH #CM10-PDT
INDIC PAC ANY	IERE MULTIPLE OCCUPANCY SENSORS ARE CATED CIRCUITED TOGETHER TO ONE POWER K OR SET OF POWER PACKS, ACTIVATION OF ONE SENSOR SHALL ENERGIZE POWER PACK (CLOSE RELAY). CBA" = STANDARD COLOR BY ARCHITECT

SENSOR LAYOUT IS BASED ON ACUITY COVERAGE PATTERNS. ADJUST QUANTITIES AND LOCATIONS FOR APPROVED SUBSTITUTION.

ALL SENSORS SHALL BE LINE VOLTAGE, WITH PROVIDED HOT, NEUTRAL AND GROUND CONDUCTORS AS REQUIRED. PROVIDE COPIES OF SENSOR OPERATION INSTRUCTIONS TO OWNER.

SET TIME DELAY TO 15-20 MINUTES FOR ALL OCCUPANCY SENSORS. SINGLE RELAY WALL SWITCH AND CEILING MOUNTED SENSORS TO BE SET TO MANUAL ON, AUTO OFF. REST ROOMS AND CORRIDORS SET THE SENSORS TO AUTO ON/AUTO OFF. DUAL RELAY WALL SWITCH SHALL BE SET TO MANUAL ON MODE RELAY 1, AUTO ON RELAY 2.





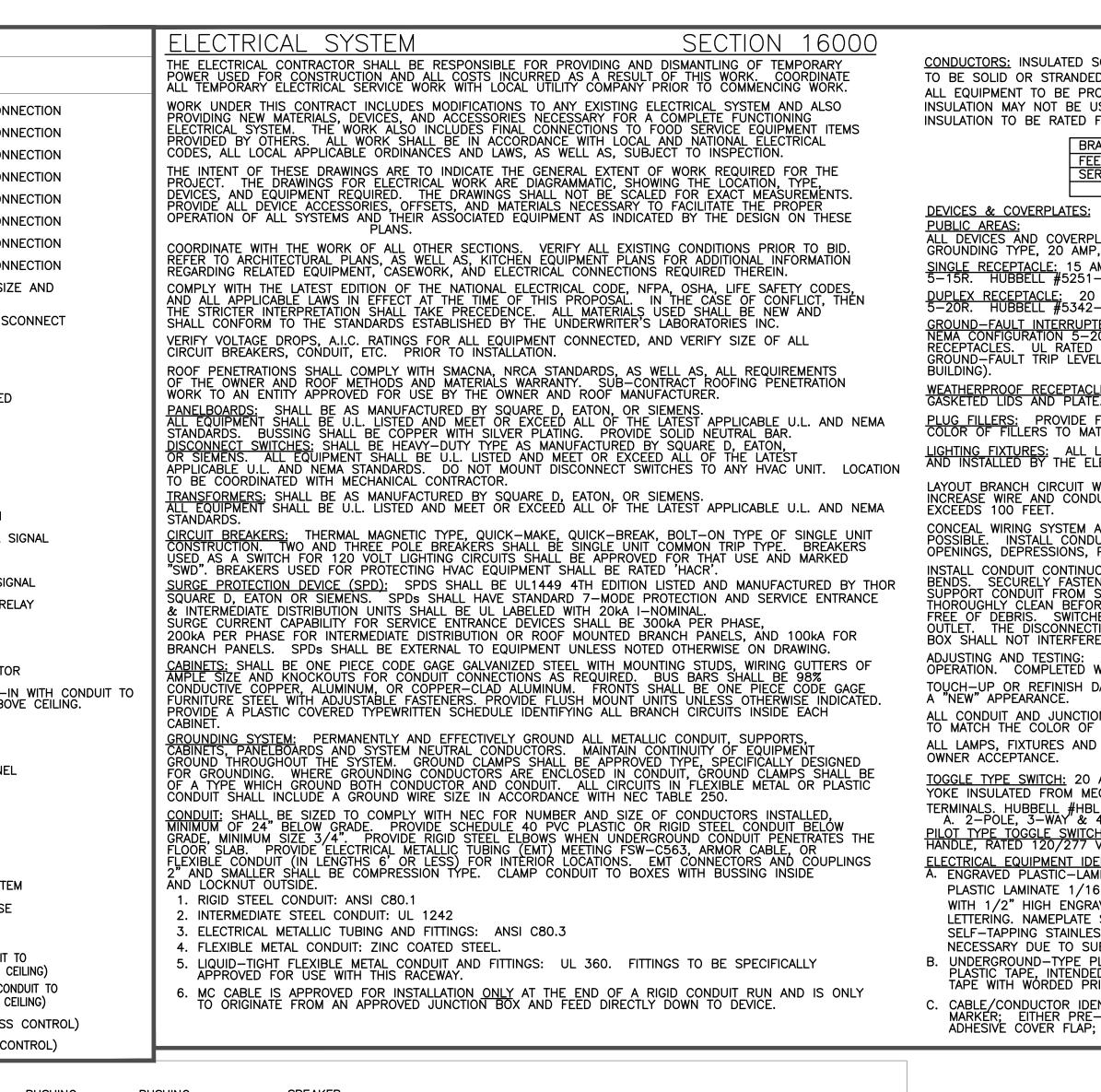


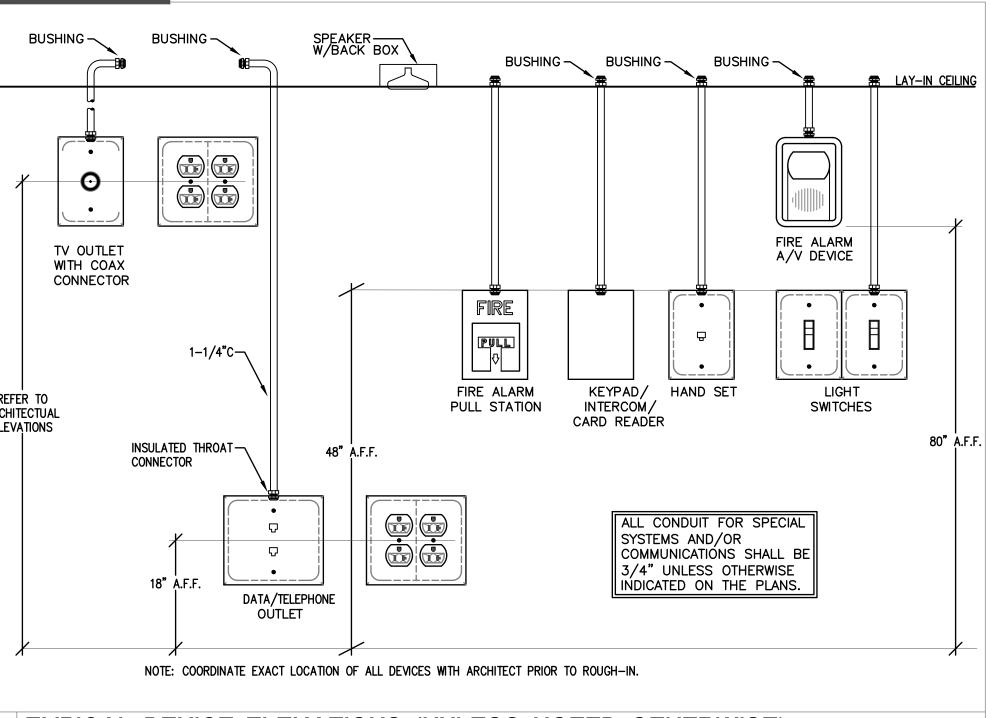
	NOT ALL SYMBOLS MAY APPLY TO THIS JOB!	LEGEN	ND
+ + + + + + + + + + + + + + + + + + + +	DESCRIPTION		
+ + 2 + +	HOMERUN TO CIRCUIT AND PANEL INDICATED	$\bigtriangleup$	120V, 1P EQUIPMENT
+	NEUTRAL CONDUCTOR	٢	240V, 1P EQUIPMENT
	HOT CONDUCTOR	0	240V, 3P EQUIPMENT
Ĩ	GROUNDING CONDUCTOR		208V, 1P EQUIPMENT
- <b>t</b> v	TRAVELER		208V, 3P EQUIPMENT
•	SWITCH LEG	$\bigotimes$	277V, 1P EQUIPMENT
\$ \$3	TOGGLE SWITCH – 120/277V, 20A THREEWAY SWITCH – 120/277V, 20A		480V, 3P EQUIPMENT
ф3 \$4	FOURWAY SWITCH - $120/277V$ , 20A	$\mathbf{\mathbf{\hat{v}}}$	480V, 1P EQUIPMENT
\$D	DIMMER SWITCH - REFER TO LTG CONTROL		DISCONNECT SWITCH POLE AS NOTED
	FOR ADDITIONAL INFORMATION	$\boxtimes^{\!$	COMBINATION STARTER
\$к	KEY SWITCH - 120/277V, 20A	$\boxtimes$	STARTER
\$м	MOTOR RATED SWITCH	Sм	MANUAL MOTOR START
	FER TO LIGHTING PLAN FOR ADDITIONAL		PANELBOARD AS SPE
LOV	V VOLTAGE LIGHTING CONTROLS SYMBOLS	Q	EXHAUST FAN
Œ	DUPLEX RECEPTACLE – 125V,20A,1P	SEC	SECURITY PANEL
€=	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE 125V,20A,1P	PA	GENERAL PAGING SYS
Ø	ISOLATED GROUND RECEPTACLE – 125V,20A,1P	Ξ	FIRE ALARM AUDIO HC
Œ	SINGLE RECEPTACLE – 250V, AMPS PER PANEL SCHEDULE	E F⊲	FIRE ALARM PULL STA
		E M	FIRE ALARM AUDIO/VIS
	QUADRAPLEX RECEPTACLE - 125V,20A,1P	$\boxtimes$	FIRE ALARM ADA VISU
æ	ISOLATED GROUND QUADRAPLEX RECEPTACLE – 125V,20A,1P	R	FIRE ALARM SHUT DO
$\ominus$	SINGLE RECEPTACLE - 125V,20A,1P	S	SMOKE DETECTOR
ullet	DUPLEX RECEPTACLE – 125V,20A,1P (FLOOR MOUNTED)	Η	HEAT DETECTOR
J	JUNCTION BOX, SIZED PER N.E.C.	SD	DUCT MTD. SMOKE DE
₽	COMBO RECEPT. & USB CHARGING DEVICE HUBBELL #USB20AC5	DC	DOOR CONTACTOR ROU ACCESSIBLE LOCATIONS
▼	TELEPHONE OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING	KP	KEY PAD
·		AAN	FIRE ALARM ANNUCIAT
V	DATA/TELEPHONE OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING	FACP	FIRE ALARM CONTROL
$\nabla$	DATA OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING		CAMERA
TV	TELEVISION OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING	FS	FLOW SWITCH
S	SPEAKER	TS TS	TAMPER SWITCH
$\overset{\bigcirc}{\diamond}$	PUSHBUTTON	PB A	PUSH-TO-EXIT BUTTO
HB	HOLD UP BUTTON		FIRE ALARM DOOR RE
AC	ABOVE COUNTER	_	
WP	WEATHER PROOF	PA KP	GENERAL PAGING SYS KEYPAD (ROUGH-IN W/CO
EWC	ELECTRIC WATER COOLER		ACCESSIBLE LOCATIONS A
EWH	ELECTRIC WATER HEATER	CR	CARD READER (ROUGH-IN ACCESSIBLE LOCATIONS AE
E.C.	ELECTRICAL CONTRACTOR	ES	ELECTRONIC STRIKE (A
NL	NIGHT LIGHT – ON 24 HOURS	MAG	MAGNETIC LOCK (ACCE
	LIGHTING CONTROL NA	RRAT	
	8 C405.2.1 - OCCUPANT SENSOR CONTROLS SHALL BE UTILIZE CONTROL, EXCEPT IN AREAS FOR WHICH EXCEPTIONS APPLY.	ED THROUGHOU	JT FOR INTERIOR
•• THE	OCCUPANT SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTS W UPANTS HAVE LEFT THE SPACE.	ITHIN 20 MINU	ITES AFTER ALL
•• THE	LIGHTS SHALL BE MANUAL ON OR CONTROLLED TO AUTOMATICA		
IN F	CENT POWER. EXCEPTION: FULL AUTOMATIC-ON CONTROL SHALL PUBLIC CORRIDORS, STAIRWAYS, RESTROOMS, PRIMARY BUILDING	ENTRANCE ARE	EAS AND LOBBIES, AND
	AS WHERE MANUAL-ON OPERATION WOULD ENDANGER THE SAFE DING OCCUPANTS.		
BUIL			
•• The Ligh	8 C405.2.3 - DAYLIGHT RESPONSIVE CONTROLS ARE NOT REQU	JIRED DUE TO	THE FACT THAT NO
BUIL •• The Ligh IECC 201		JIRED IN SPAC	ES IN HEALTH CARE
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TYPICAL DEVICE ELEVATIONS (UNLESS NOTED OTHERWISE)

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	t s
SOFT ANNEALED 98% PURE COPPER WITH COLOR CODING, B AND S GAGE, #12 D, #10 AND LARGER TO BE STRANDED, MINIMUM #12, UNLESS OTHERWISE INDICATED. OVIDED WITH CU/AL 75° DEGREE C. TERMINAL LUGS. CONDUCTORS WITH "THHN" JSED UNDERGROUND AT SERVICE ENTRANCES, OUTSIDE, OR IN WET LOCATIONS. ALL FOR 90° DEGREE C OR 600 VOLT AND TYPES AS FOLLOWS:	
ANCH CIRCUITS THHN, THWN2	
EDERS THWN2 RVICE_ENTRANCE THWN2, XHHW, XHHW2	
LATES SHALL BE STAINLESS STEEL. STANDARD DUPLEX RECEPTACLES SHALL BE , NEMA 5–20R, SIDE OR BACK WIRED.	
MP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION -#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).	
AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION -#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).	
T <u>ER RECEPTACLE:</u> 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH 20R, FEED-THRU TYPE CAPABLE OF PROTECTING CONNECTED DOWNSTREAM CLASS A, GROUP 1, SOLID STATE GROUND-FAULT SENSING LEVEL WITH 5 ma 1. HUBBELL #195362#. (DEVICE COLOR IS DEPENDENT ON AREA OF	
E: SHALL BE A GROUND-FAULT INTERRUPTER WITH STAINLESS STEEL, E. PLATE TO CONSIST OF TWO SPRING LOADED LIDS HINGED AT TOP.	
FLUSH RECEPTACLE COVERS AT ALL DUPLEX RECEPTACLES IN PUBLIC AREAS.	
TCH COLOR OF RECEPTACLE AND COVERPLATE. LIGHTING FIXTURES AND ASSOCIATED LAMPS AND BALLASTS SHALL BE FURNISHED	
LECTRICAL CONTRACTOR.	
WIRING AND ARRANGE HOMERUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. DUIT SIZE ACCORDINGLY IF VOLTAGE DROP EXCEEDS 3% OR LENGTH OF RUN	
ABOVE SUSPENDED CEILINGS OR IN WALL OR FLOOR CONSTRUCTION WHERE UIT PARALLEL OR PERPENDICULAR TO ALL BUILDING LINES, SUCH THAT ALL PIPES, DUCTS, STRUCTURE, ETC. ARE AVOIDED.	
OUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90° DEGREE N IN PLACE WITH STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT SUSPENDED CEILING GRID OR SUSPENSION WIRES. REAM CONDUIT ENDS AND RE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT IES AND OUTLETS SHALL NOT BE USED TO "FEED THRU" TO THE NEXT SWITCH OR FION OR REMOVAL OF A RECEPTACLE, FIXTURE OR OTHER DEVICE FED FROM A E WITH OR INTERRUPT THE CONDUCTOR CONTINUITY.	
ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AND TESTED FOR PROPER WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.	
DAMAGED SURFACES OF FIXTURES AND EQUIPMENT, EXPOSED TO VIEW, TO PRESENT	
ON BOXES LOCATED WITHIN AN EXPOSED STRUCTURAL SYSTEM SHALL BE PAINTED THE STRUCTURE (COLOR TO BE VERIFIED WITH ARCHITECT). O ASSOCIATED HOUSINGS, LENSES, AND LOUVERS SHALL BE CLEANED PRIOR TO	
AMP, 120/277 VOLT AC SINGLE-POLE, QUIET TYPE, WITH MOUNTING ECHANISM, EQUIPPED WITH PLASTER EARS, SIDE-WIRED SCREW	
L 12211. 4—WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE—POLE. H: INSTALL SWITCH DEVICE WITH 1/25 WATT NEON PILOT INTEGRAL WITH TOGGLE VOLT AC. PILOT LIGHT GLOWS IN THE "ON" POSITION. HUBBELL #HBL 1221PL.	
ENTIFICATION: MINATE NAMEPLATES: SHALL BE ENGRAVING STOCK MELAMINE	
5" THICK, 1–1/2" HIGH (2" HIGH FOR 2 LINES OF TEXT) AVER'S STYLE LETTERS. COLOR SHALL BE BLACK WITH WHITE SHALL BE PUNCHED FOR MECHANICAL FASTENING WITH SS STEEL SCREWS, UNLESS ADHESIVE MOUNTING IS	
JBSTRATE MATERIAL. PLASTIC LINE MARKER: SHALL BE PERMANENT, BRIGHT COLORED, CONTINUOUS—PRINTED D FOR DIRECT BURIAL SERVICE, NOT LESS THAN 6" WIDE x 4 MILS THICK. PROVIDE RINT WHICH MOST ACCURATELY DESCRIBES THE TYPE OF SERVICE FOR BURIED CABLE.	
NTIFICATION BANDS: SHALL BE VINYL-CLOTH, SELF-ADHESIVE, WRAP-AROUND TYPE -NUMBERED PLASTIC COATED TYPE OR WRITE-ON TYPE WITH CLEAR PLASTIC SELF- NUMBERED TO SHOW CIRCUIT IDENTIFICATION.	373
	д. 783

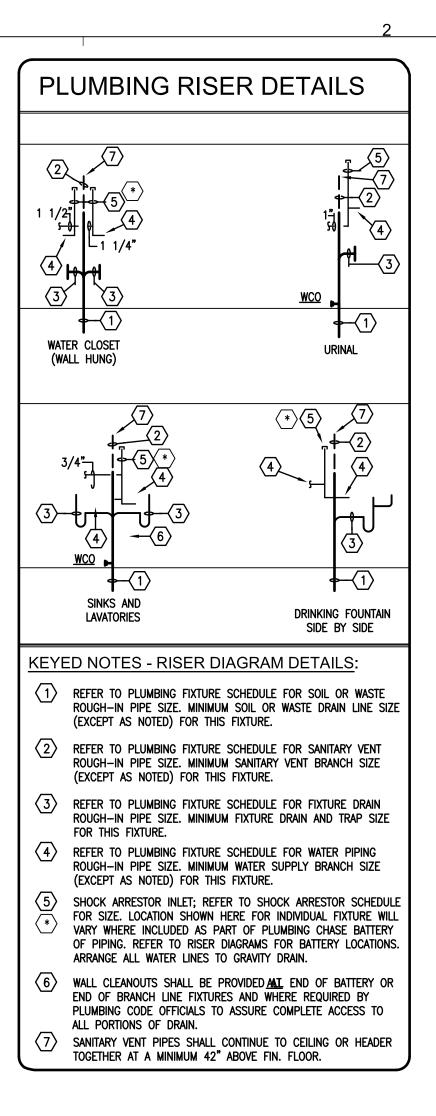




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	PLUMBING LEGEND	
	LEGEND ITEMS NOT ON DRAWINGS	
SYMBOL	DESCRIPTION	ABBR
	SOIL OR WASTE PIPING B.G.	
		WST
	SOIL OR WASTE PIPING A.G.	WST
GW	GREASE WASTE PIPING	GW
	VENT PIPING	V
SD	STORM DRAIN PIPING	SD
OD	OVERFLOW STORM DRAIN PIPING	OD
G	GAS LINE	G
F	FIRE OR SPRINKLER LINE	F
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	НW
	DOMESTIC HOT WATER RETURN	HWR
тw	TEMPERED DOMESTIC HOT WATER	TW
¥	GATE VALVE	GV
	GLOBE VALVE	GLV
	BALL VALVE	BV
<u>N</u>	CHECK VALVE	СКУ
	BALANCING VALVE	BAV
	BUTTERFLY VALVE	BTV
+ <del>\</del>	PLUG VALVE	PLV
<u>∧</u> ¥	PRESSURE REDUCING VALVE	PRV
Ar	PRESSURE RELIEF VALVE	T&P
т ;	STRAINER	STR
· · ·		
,		UN
	THERMOMETER WELL	TW
Q	PRESSURE GAUGE	PG
	THERMOMETER	THRM
D	CONDENSATE OR INDIRECT DRAIN	D
t		
+	BRANCH CONNECTION, TOP	
	BRANCH CONNECTION, BOTTOM	
+0	ELBOW UP	
C+	ELBOW DOWN	
O	FLOOR CLEANOUT (INTERIOR)	FCO
Ø	CLEANOUT AT GRADE (EXTERIOR)	COG
	WALL CLEANOUT	wco
<b></b>	FLOOR DRAIN	FD
	FLOOR SINK	FS
<del>-</del>	HOSE BIBB	НВ
	WALL HYDRANT	WH
	NEW TO EXISTING PIPE CONNECTION	
P X	PLUMBING RISER IDENTIFICATION	 P/X
	PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION	
X		
X	DOWNSPOUT RISER IDENTIFICATION	DS/X F/X
X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS	DS/X F/X
X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR	DS/X F/X ABBR AFF
X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL	DS/X F/X ABBR AFF AP
X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR	DS/X F/X ABBR AFF AP BFF
X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE	DS/X F/X ABBR AFF AP BFF BOP
X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR	DS/X F/X ABBR AFF AP BFF
X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE	DS/X F/X ABBR AFF AP BFF BOP
X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE INDIRECT DRAIN EXISTING TO REMAIN	DS/X F/X ABBR AFF AP BFF BOP D (E)
X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE INDIRECT DRAIN EXISTING TO REMAIN EXISTING TO BE DEMOLISHED	DS/X F/X ABBR AFF AP BFF BOP D (E) (D)
X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE INDIRECT DRAIN EXISTING TO REMAIN	ABBR AFF AP BFF BOP D (E)
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X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE INDIRECT DRAIN EXISTING TO REMAIN EXISTING TO BE DEMOLISHED EXISTING TO BE RELOCATED FINISHED FLOOR INVERT ELEVATION NORMALLY CLOSED SOFT WATER	DS/X F/X ABBR AFF AP BFF BOP D (E) (D) (E) (D) (R) FIN FLR INV. E NC SW
X	DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE INDIRECT DRAIN EXISTING TO REMAIN EXISTING TO BE DEMOLISHED EXISTING TO BE RELOCATED FINISHED FLOOR INVERT ELEVATION NORMALLY CLOSED SOFT WATER TRAP PRIMER	DS/X F/X ABBR AFF AP BFF BOP D (E) (D) (E) (C) (R) FIN FLR INV. E NC SW TP



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### 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.
- 3. 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.
- 4. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH-IN OPENINGS BEFORE BEGINNING WORK.
- 5. 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.
- 6. 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
- 7. 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.

8. ALL EXPOSED BRASS SHALL BE CHROME PLATED.

- 9. 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.
- 11. ALL ADA/TAS SINKS SHALL BE STAMPED WITH DRAIN OUTLET AT THE REAR OF THE BOWL.
- 12. 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.
- 13. ORIENT ADA/TAS WATER CLOSET FLUSH VALVE WITH OPERATOR ON LARGE SIDE OF ENCLOSURE AND BELOW GRAB BARS.
- 14. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
- 15. 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 OVEF 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.
- 16. EQUIVALENT MANUFACTURES OF CHINA FIXTURES ARE KOHLER, AND AMERICAN STANDARD. EQUIVALENT MANUFACTURES OF STAINLESS FIXTURES ARE JUST, ELKAY, AND ADVANCE TABCO.
- 17. 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.
- 18. ROOF PENETRATIONS SHALL BE DONE IN STRICT COMPLIANCE WITH THE ARCHITECTS SPECIFICATIONS AND SHALL BE LEAK PROOF.
- 19. FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF STUB OUTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY WHICH MAY AFFECT THE INTENDED DESIGN.
- 20. ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL STATE AND LOCAL CODES.
- 21. 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.
- 22. ALL WATER HEATER SUPPLY CONNECTIONS SHALL HAVE HEA TRAP NIPPLE CONNECTIONS. HEAT TRAP NIPPLES NOT REQUIRED IF HOT WATER RECIRCULATION SYSTEM IS PROVIDED.
- 23. NO HUB COUPLINGS SHALL BE HEAVY DUTY 4 BAND COUPLINGS WITH STAINLESS STEEL SHIELD.
- 24. 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 OR 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 SCHEDULE 40 PVC WITH SOVENT 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 ARRESSTORS 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 HAVINGA 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.

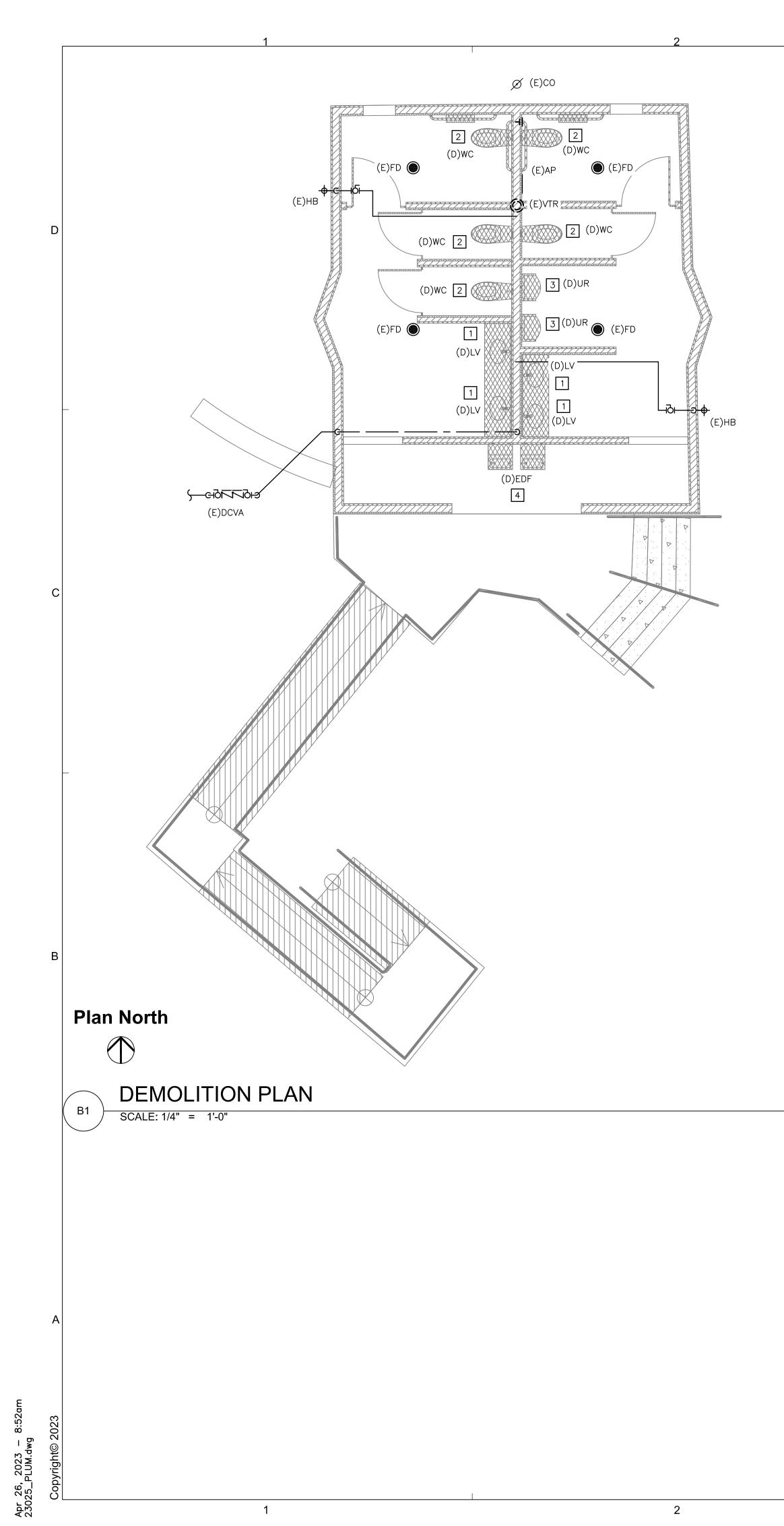
TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

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.

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	Project Name: COPA-MARINA	Project Address: 301 J.C. Barr Blvd. Port Aransas TX 78373 Nueces County	
Plumbing Specifications	RENOVATIONS Project No:	Date:	architects
	23007	April 25, 2023 (J	phone: 361.537.4400 erozypal@edrarchitects.com
Sheet Title	Project Data	IssueRevisionRevision	





## **GENERAL PLUMBING NOTES:**

- 1. 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.
- 2. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- 3. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- 4. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- 5. 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. 6. REMOVE AND CAP ABOVE CEILING LEVEL ALL DOMESTIC WATER AND VENT
- PIPING LOCATED IN WALLS THAT ARE TO BE DEMOLISHED. 7. 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.
- 8. ROD ALL SEWER LINES AND FLUSH OF DEBRIS.

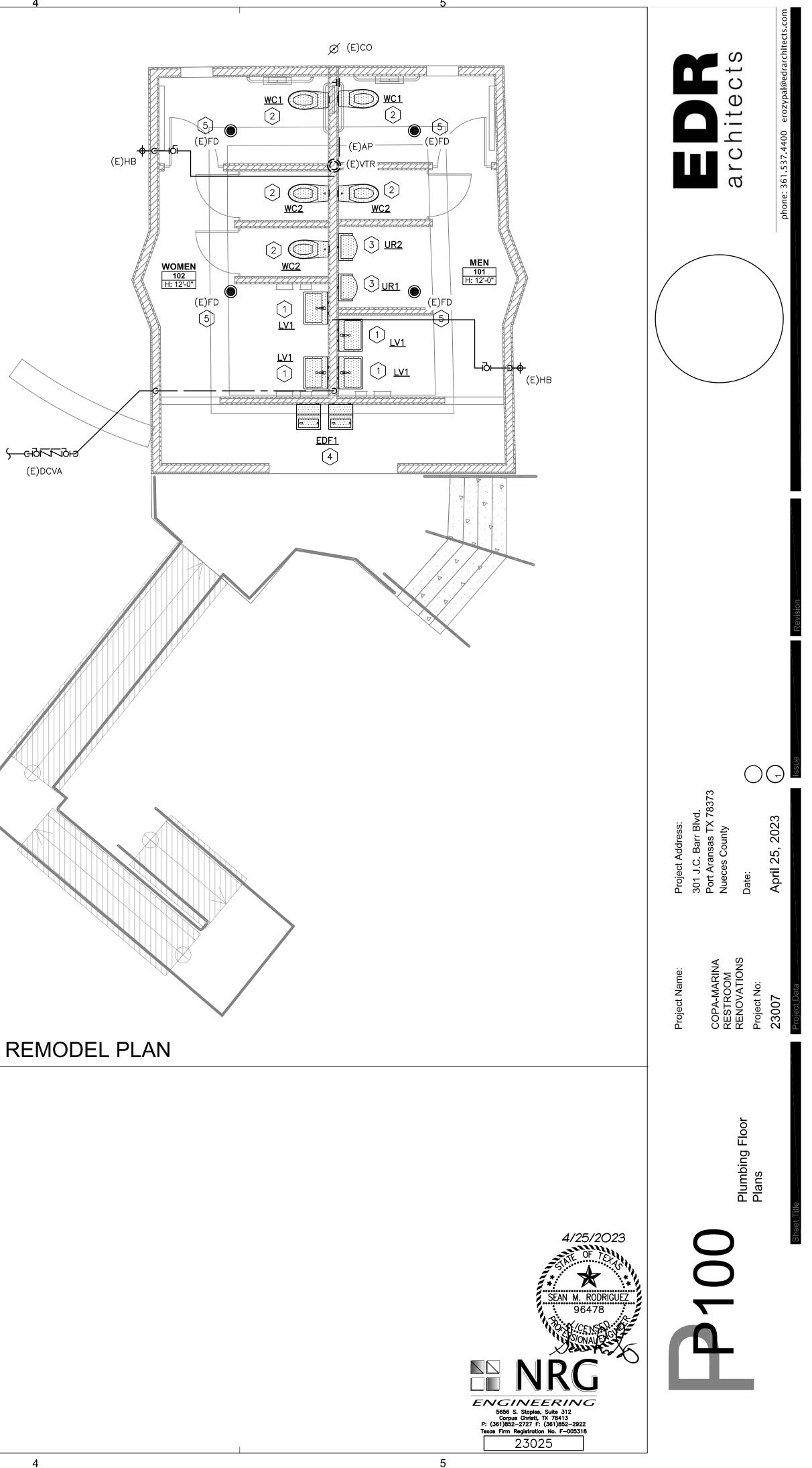
# PLUMBING DEMO KEYED NOTES

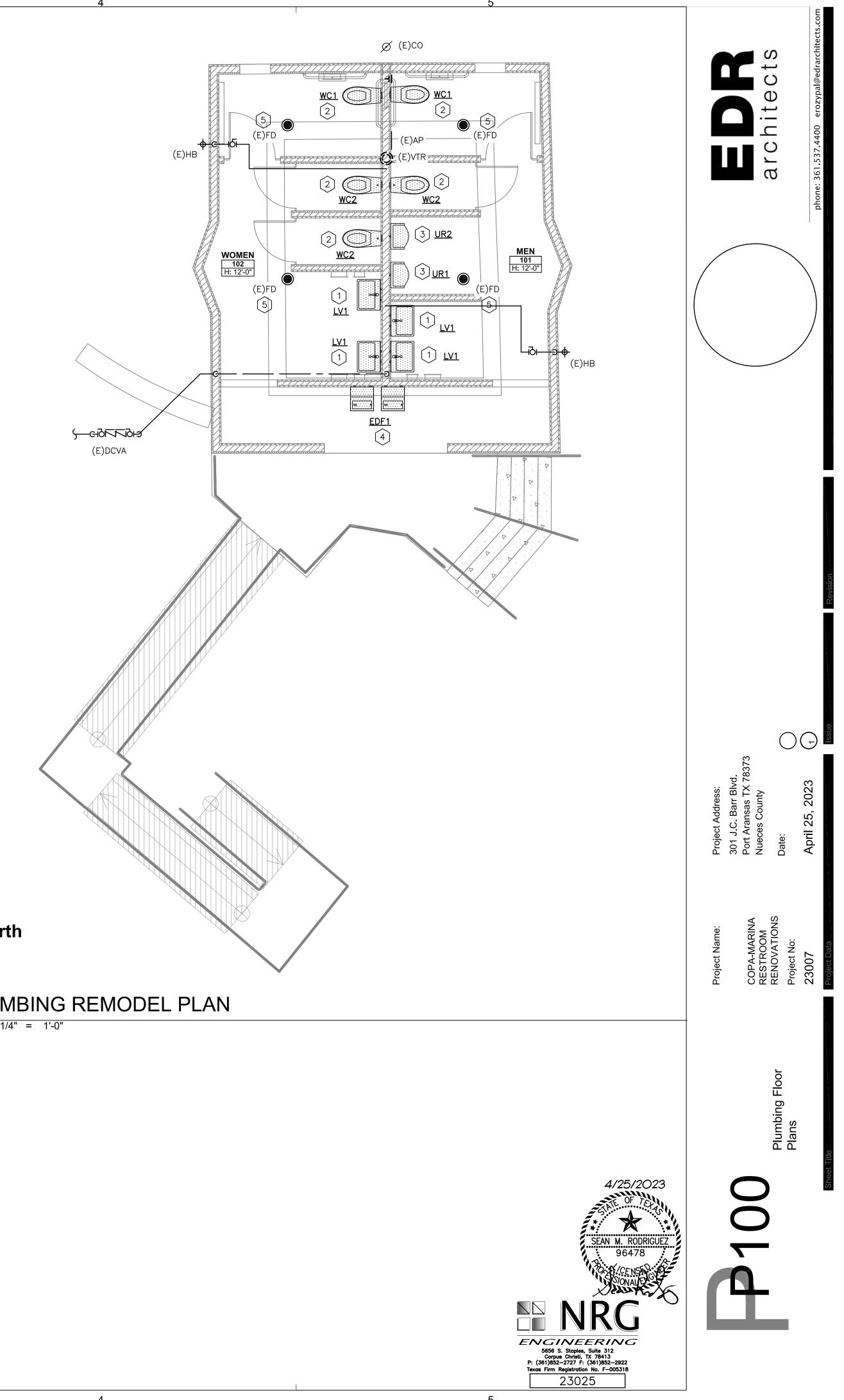
- 1 REMOVE AND DIPOSE OF EXISTING LAVATORY, FAUCET, AND APPURTENANCES. PREPARE FOR NEW FIXTURE CONNECTIONS.
- 2 REMOVE AND DISPOSE OF EXISTING WATER CLOSET, FLUSH VALVE, AND APPURTENANCES. PREPARE FOR NEW FIXTURE CONNECTIONS.
- 3 REMOVE AND DISPOSE OF EXISTING URINAL, VALVE, AND APPURTENANCES. PREPARE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

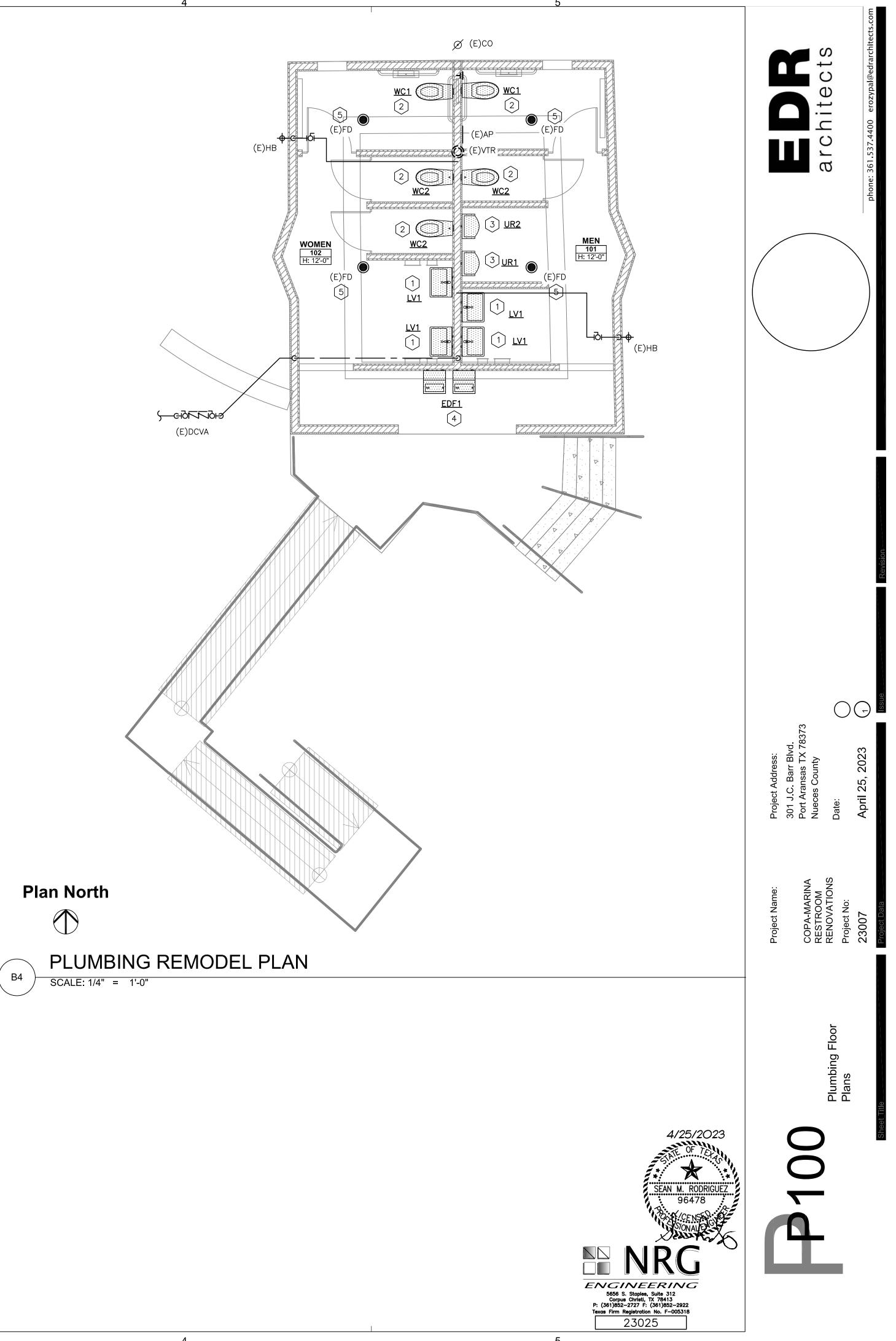
### PLUMBING KEYED NOTES

- 1 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.
- 2 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.
- 3 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.
- (4) 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.
- 5 CLEAN FLOOR DRAIN, RAISE TO BE FLUSH WITH NEW TILE. INSTALL TRAP-GUARD TRAP SEAL AND RETURN GRATE.

3







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			PL	UMBI	NG FI	XTUF	RE SCHEDULE
G	REFER TO ARCHITECTURAL	TAS/ADA	A SHEETS	AND TAS	ADA RE	GULATION	S FOR MOUNTING HEIGHTS AND CLEARANCES.
SYMB.	PLAN MARK	WOT		ROUGH-			DESCRIPTION
	ELEC. DRINKING FOUNTAIN EDF1 (BI LEVEL COOLER)		<b>ℓ VENT</b>	DRAIN 1-1/2"	<b>CW</b> 1/2"	HW	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. 36" FROM
	<u>E</u>						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" <b>(KOHLER No.</b> <b>K-4991-ET "BARDON")</b> 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.
<b>V</b>	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.
6	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 RETU CEILING PLENUMS ARE USED FOR RETURN AIR, CONTR/ BELL AND SPIGOT SERVICE WEIGHT CAST IRON PIPE.					

architects phone: 361.537.4400 erozypal@edrarchitects.com	
	Issue
Project Address: 301 J.C. Barr Blvd. Port Aransas TX 78373 Nueces County Date: April 25, 2023	
Project Name: COPA-MARINA RESTROOM RENOVATIONS Project No: 23007	Project Data
Brunbing Schedules	Sheet Title

