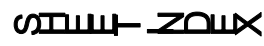


**5010 W CALLE TORIM
TUCSON, AZ 85757
Pascua Yaqui Tribe**



GENERAL		STRUCTURAL		ELECTRICAL	
G102	CODE SHEET	S0.1	GENERAL STRUCTURAL NOTES	E1.1	GENERAL NOTES AND SPECIFICATIONS
G103	ACCESSIBILITY DETAILS	S0.2	GENERAL STRUCTURAL NOTES	E1.2	ELECTRICAL SITE PLAN
G104	ACCESSIBILITY DETAILS	S0.3	SPECIAL INSPECTIONS	E1.3	LIGHTING PHOTOMETRIC SITE PLAN
G105	GENERAL NOTES	S0.4	SPECIAL INSPECTIONS	E2.1	POWER AND SIGNAL PLAN
CIVIL		S1.1	TYPICAL DETAILS	E3.1	LIGHTING PLAN
CV1	COVER SHEET	S1.2	TYPICAL DETAIL	E4.1	ROOF PLAN
GN1	GENERAL NOTES SHEET	S1.3	TYPICAL DETAIL	E5.1	SINGLE LINE DIAGRAM AND CALCULATIONS
SP1	SITE PLAN SHEET	S1.4	TYPICAL DETAIL	E5.2	PANEL SCHEDULES
DR1	DRAINAGE SHEET	S1.5	SCHEDULES	E5.3	PANEL SCHEDULES
GR1	GRADING SHEET	S2.1	FOUNDATION PLAN	E6.1	DETAIL SHEET #1
GR2	GRADING SHEET	S3.1	ROOF FRAMING PLAN	E6.2	DETAIL SHEET #2
GR3	GRADING SHEET	S3.2	HIGH ROOF FRAMING PLAN	E6.3	DETAIL SHEET #3
GR4	STAKING SHEET	S4.1	FOUNDATION DETAILS	E6.4	DETAIL SHEET #4
GR5	STAKING SHEET	S5.1	FRAMING DETAILS	E7.1	IECC COMPLIANCE
DT1	DETAIL SHEET	S5.2	FRAMING DETAILS	E7.2	IECC COMPLIANCE
DT2	DETAIL SHEET				
DT3	DETAIL SHEET				
UT1	UTILITY PLAN SHEET				
LANDSCAPE		MECHANICAL		FOODSERVICE EQUIPMENT	
L1.0	LANDSCAPE PLAN	M1.1	MECHANICAL GENERAL NOTES, SYMBOLS, & SPECIFICATIONS	FS-1.0	FOODSERVICE EQUIPMENT PLAN
L2.0	DETAILS	M1.2	IECC COMPLIANCE FORMS-MECHANICAL & PLUMBING	FS-1.1	EQUIPMENT SCHEDULE
		M1.3	IECC COMPLIANCE FORMS-MECHANICAL & PLUMBING	FS-1.2	EQUIPMENT SCHEDULE
ARCHITECTURAL		M2.1	MECHANICAL PLAN	FS-2.0	PLUMBING ROUGH IN PLAN
A001	OVERALL SITE PLAN	M2.2	MECHANICAL ROOF PLAN	FS-2.1	PLUMBING ROUGH IN PLAN
A002	ENLARGED SITE PLANS	M3.1	MECHANICAL ENLARGED PLAN	FS-3.0	ELECTRICAL ROUGH IN PLAN
A101	FLOOR PLAN	M3.2	MECHANICAL SECTIONS	FS-4.0	MECHANICAL ROUGH IN PLAN
A141	REFLECTED CEILING PLAN	M4.1	AIRFLOW DIAGRAM	FS-4.1	MECHANICAL SPECIFICATIONS
A142	ENLARGED RCP	M5.1	MECHANICAL DETAILS	FS-4.2	MECHANICAL SPECIFICATIONS
A171	ROOF PLAN	M5.2	MECHANICAL DETAILS	FS-4.3	MECHANICAL SPECIFICATIONS
A201	EXTERIOR ELEVATIONS	M6.1	MECHANICAL SCHEDULES	FS-4.4	MECHANICAL SPECIFICATIONS
A301	BUILDING SECTIONS	M6.2	MECHANICAL SCHEDULES	FS-4.5	MECHANICAL SPECIFICATIONS
A302	BUILDING SECTIONS	M7.1	MECHANICAL CONTROLS	FS-4.6	MECHANICAL SPECIFICATIONS
A340	WALL SECTIONS			FS-4.7	MECHANICAL SPECIFICATIONS
A341	WALL SECTIONS			FS-4.8	MECHANICAL SPECIFICATIONS
A401	ENLARGED PREP-KITCHEN	PLUMBING		FS-5.0	SPECIAL CONDITIONS PLAN
A402	ENLARGED RESTROOMS	P1.1	PLUMBING GENERAL NOTES AND SYMBOLS	FS-5.0	WALK IN SPECIFICATIONS
A403	ENLARGED DEMO KITCHEN	P2.1	PLUMBING PLAN - WASTE & VENT	FS-6.1	WALK IN SPECIFICATIONS
A404	PERFORATED SCREEN	P2.2	PLUMBING PLAN - DOM. WATER & NAT.GAS	FS-6.2	WALK IN SPECIFICATIONS
A405	PERFORATED SCREEN	P2.3	PLUMBING ROOF PLAN	FS-6.3	WALK IN SPECIFICATIONS
A406	TRASH ENCLOSURE	P3.1	PLUMBING ISO-SCHEMATICS		
A501	INTERIOR ELEVATIONS	P3.2	PLUMBING ISO-SCHEMATICS	ALT#1 - TRASH ENCLOSURE	
A601	DOOR AND WINDOW SCHEDULE	P3.3	PLUMBING ISO-SCHEMATICS	ALT#2 - FOOD SERVICE EQUIPMENT	
A602	FINISH SCHEDULES	P3.4	PLUMBING ISO-SCHEMATICS		
A901	SITE DETAILS	P4.1	PLUMBING DETAILS		
A902	SITE DETAILS	P4.2	PLUMBING DETAILS		
A903	FRAMING DETAILS	P5.1	PLUMBING SCHEDULES		
A905	STOREFRONT DETAILS	P5.2	PLUMBING SCHEDULES		
A906	DOOR DETAILS	P5.3	PLUMBING SCHEDULES		
A909	CEILING DETAILS				
A910	ROOF DETAILS				
A911	ROOF DETAILS				
A912	MILLWORK DETAILS				

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DEFERRED SUBMITTALS BY CONTRACTOR:
1. FIRE SUPPRESSION
2. FIRE ALARM

PROVIDE COSTS FOR DEFERRED
ENGINEERING SERVICES AS REQUIRED TO
COMPLETE THIS SCOPE.



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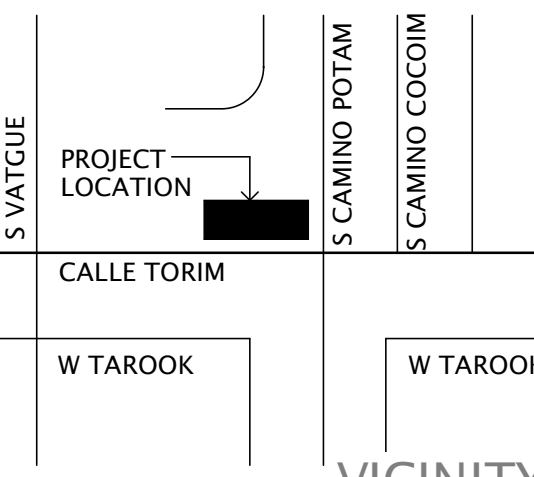


FORMATION

Pascua Yaqui Tribe

Micro Market

5010 W CALLE TORIM
TUCSON AZ 85757



REVISION		
NUMBER	DESCRIPTION	DATE

PROJECT NO.	23C-00
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SHEET TITLE

TITLE SHEET

DATE	01.20.2021
SHEET	01.00

G100

PROJECT TITLE:
CHEPA'S MARKET - PASCUA YAQUI TRIBE MICRO-MARKET

ADDRESS:
5010 W CALLE TORIM TUCSON, AZ 85757

OWNER:
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CONTACT: Reuben Howard
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P: (520) 879-6000
7490 S CAMINO DE OESTE
TUCSON, AZ 85757

PARCEL NUMBER:
210-44-1380

PROJECT DESCRIPTION:
THE MICRO-MARKET IS A 12,400 LIVABLE SF BUILDING IN A 58,815 SF LOT THAT COMBINES THE USE OF CMU AND METAL STUD WALLS, WITH A MAIN METAL FRAMING AND ROOF STRUCTURE. STANDING SEAM METAL ROOF OVER THE MAIN MARKET AREA AND TPO MEMBRANE ROOFING OVER THE OTHER AREAS.
PROJECT PROGRAM INCLUDES:
A MAIN CIRCULAR VESTIBULE OVER THE EAST SIDE, AND A DEMONSTRATION KITCHEN ROOM (VOCATIONAL SPACE) WITH ACCESS TO A PATIO ON THE WEST SIDE, BOTH PROTECTED WITH A CIRCULAR-SHAPED PERFORATED METAL SCREEN. INSIDE THE MARKET THERE'S A GRAB-AND-GO AREA WITH ITS OWN COMMERCIAL KITCHEN FOCUSED ON HEALTHY FOOD, LOCAL PRODUCTS WILL BE DISPLAYED AT THE MAIN SPACE WITH NATURAL DAYLIGHT COMING FROM NORTH AND SOUTH ORIENTATIONS. MOST OF THE SERVICE AREAS, WITH EXCEPTION OF THE JANITOR'S ROOM, LIKE RESTROOMS, MECHANICAL, ELECTRICAL, STORAGE, OFFICE, AND IT, ARE LOCATED ALONG THE NORTH SIDE OF THE BUILDING. AN UNCOVERED ONE-WAY PARKING LOT WITH THIRTY FIVE PARKING SPACES SITS OVER THE EAST SIDE OF THE PROPERTY (SEVEN OF THEM ALONG "W CALLE TORIM"), INCLUDING A TRASH ENCLOSURE FOR TWO TRASH BINS.

LEGAL DESCRIPTION:
PASCUA YAQUI HOUSING AZ 40-1 LOT 50 BLK 40

APPLICABLE CODES:
2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL PLUMBING CODE (IPC)
2018 INTERNATIONAL FIRE CODE (IFC)
2017 NATIONAL ELECTRICAL CODE (NEC)
2009 ICC A117.1 ACCESIBLE AND USABLE BUILDING FACILITIES

WITH ALL CITY OF TUCSON CODE AMENDMENTS, ORD. #11590

BUILDING GENERALS:
LOT SIZE: 58,815 SF
EXISTING ZONING: RH
BUILDING SF: 12,400 SF
BUILDING HEIGHT: 24'-11"
BUILDING LEVELS: 1-STORY
CONSTRUCTION TYPE: V-B
OCCUPANCY CLASSIFICATION: M
FIRE SPRINKLERS: YES
FIRE ALARM: YES

ALLOWABLE BLDG. HEIGHT AND AREA:
PER TABLE 504.3
MAX. ALLOWABLE BUILDING HEIGHT: 60'-0"
PER TABLE 504.4
MAX. ALLOWABLE BUILDING HEIGHT: 2-STORIES
PER TABLE 506.2
MAX. ALLOWABLE BUILDING AREA: 36,000 SF

AREA INCREASE CALCULATION:
ALLOWABLE AREA CALCULATION: GROUP M:
BUILDING CURRENT AREA IS UNDER THE MAXIMUM ALLOWABLE, NO AREA INCREASE CALCULATION REQUIRED.

FIRE RESIST. RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS):
PER TABLE 601 - FOR CONSTRUCTION TYPE V-B:
STRUCTURAL FRAME:
• 0-HOUR RATING
BEARING WALLS:
• EXTERIOR: 0-HOUR RATING
• INTERIOR: 0-HOUR RATING
EXTERIOR NONBEARING WALLS AND PARTITIONS: PER TABLE 602
• EXTERIOR: NON-BEARING WALL AND PARTITIONS:
• EXTERIOR WALLS WITH FIRE SEPARATION DISTANCE $X \geq 30'$ = 0-HR
• EXTERIOR WALLS WITH FIRE SEPARATION DISTANCE $10' \geq X > 30'$ = 1-HR
• EXTERIOR WALLS WITH FIRE SEPARATION DISTANCE $5' \geq X > 10'$ = 1-HR
• EXTERIOR WALLS WITH FIRE SEPARATION DISTANCE $X < 5'$: 2-HR
INTERIOR NONBEARING WALLS AND PARTITIONS: PER TABLE 601
• INTERIOR: 0-HOUR RATING
• FLOOR CONSTR. (INCLUDING SUPPORT BEAMS AND JOISTS): 0-HR
• ROOF CONSTR. (INCLUDING SUPPORT BEAMS AND JOISTS): 0-HR

INCIDENTAL USES
PER TABLE 509
ROOMS WITH BOILERS: NO SEPARATION IF FIRE SPRINKLER PROVIDED
MAX. AREA OF EXT. WALL OPENINGS:
PER TABLE 705.8
FIRE SEPARATION DISTANCE: GREATER THAN 30 FEET ON ALL SIDES
UNPROTECTED, SPRINKLERED: NOT REQUIRED
PROTECTED OPENINGS: NOT REQUIRED

INTERIOR AND CEILING FINISH REQUIREMENT:
SECTION 803.1.2 AND TABLE 803.1.3
GROUP M, SPRINKLERED
INT. EXIT STAIRWAYS, RAMPS AND EXIT PASSAGEWAYS: CLASS B
FLAME SPREAD INDEX: 26-75
SMOKE DEVELOPMENT INDEX: 0-450
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS: CLASS C
FLAME SPREAD INDEX: 76-200
SMOKE DEVELOPED INDEX: 0-450

ROOMS AND ENCLOSED SPACES:
CLASS C
FLAME SPREAD INDEX: 76-200
SMOKE DEVELOPED INDEX: 0-450

AUTOMATIC SPRINKLER SYSTEMS:
PER TABLE 903.2
BUILDING EXCEEDS 12,000 GSF. AN AUTOMATIC SPRINKLER SYSTEM IS REQUIRED AND BE PROVIDED FOR THIS BUILDING

OCCUPANT LOAD
PER TABLE 1004.5
SEE OCCUPANCY SCHEDULE ON THIS SHEET.

EGRESS WIDTH PER OCCUPANT SERVED:
PER SECTION 1005.3.2
(INCHES PER OCCUPANT FOR A OCCUPANCY)
OTHER EGRESS COMPONENTS 0.15

EXIT ACCESS TRAVEL DISTANCE:
PER TABLE 1016.2
M OCC. WITH SPRINKLER SYSTEM: 250 FT MAX.
ALL TRAVEL DISTANCES UNDER THE MAXIMUM PERMITTED

MIN. ROOF COVERING CLASSIFICATION
PER TABLE 1505.1
TYPE V-B CONSTRUCTION
MIN. ROOF COVERING CLASSIFICATION: CLASS C

PLUMBING FIXTURE CALCULATIONS
PER CHAPTER 29
SEE PLUMBING FIXTURE CALCULATION ON THIS SHEET.

OCCUPANT LOAD & EGRESS DATA BY SPACE									
ROOM NUMBER	ROOM NAME	FLOOR AREA	USE ID	LOAD FACTOR	LOAD	ADD'L	TOTAL	REQUIRED	PROVIDED
LEVEL 1									
100	MAIN VESTIBULE	1,138 SF	zh	30	38	0	38	1	2
101	CART STORAGE	192 SF	zi	300	1	0	1	1	1
102	GRAB N GO	345 SF	zh	30	14	0	14	1	2
103	CUSTOMER SERVICE	95 SF	p	150	1	0	1	1	1
104	MARKET	4,723 SF	zh	30	158	0	158	2	2
105	DELI	167 SF	zh	30	6	0	6	1	1
106	PREP-KITCHEN	884 SF	zb	200	5	0	5	1	1
107	WALK-IN FRIDGE	162 SF		0	0	0	0		
108	WALK-IN COOLER	73 SF		0	0	0	0		
109	OFFICE	131 SF	p	150	1	0	1	1	1
110	R.R.	65 SF		0	0	0	0		
111	IT	106 SF	a	300	1	0	1	1	1
112	RECEIVING AND STORAGE	1,254 SF	zi	300	5	0	5	1	1
113	WALK-IN FREEZER	103 SF		0	0	0	0	1	1
114	WALK-IN REFRIGERATOR	302 SF		0	0	0	0	1	1
115	ELECTRICAL ROOM	103 SF	a	300	1	0	1	1	1
116	MECH. ROOM	71 SF	a	300	1	0	1	1	1
117	STORAGE	232 SF	a	300	1	0	1	1	1
118	VESTIBULE	288 SF	zh	30	10	0	10	1	1
119	W.R.R.	231 SF		0	0	0	0		
120	M.R.R.	233 SF		0	0	0	0		
121	JANITOR	116 SF	a	300	1	0	1	1	1
122	DEMONSTRATION KITCHEN	945 SF	u	50	19	0	19	1	2
123	PATIO	641 SF	u	50	14	0	14	1	2
TOTAL		12,600 SF			277				
USE ID	OCCUPANCY USE								
(none)	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM								
a	BUSINESS AREAS								
u	EDUCATIONAL_SHOPS AND OTHER VOCATIONAL ROOM AREAS								
zb	KITCHEN, COMMERCIAL								
zh	MERCANTILE_BASEMENT and GRADE FLOOR AREAS								
zi	MERCANTILE_STORAGE, STOCK, SHIPPING AREAS								

IECC 2018 COMPLIANCE BY PRESCRIPTIVE METHOD ZONE: 2B PIMA COUNTY
PER TABLE C402.1.3
OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD^{a,1}

CLIMATE ZONE: 2	
	ROOFS
INSULATION ENTIRELY ABOVE ROOF DECK	R-25ci
MASS ^a	R-5, 7ci ^b
METAL FRAMED	R-13 + R-5ci
UNHEATED SLABS	SLAB-ON-GRADE FLOORS
	NR
	OPAQUE DOORS
NONSWINGING	R-4.75

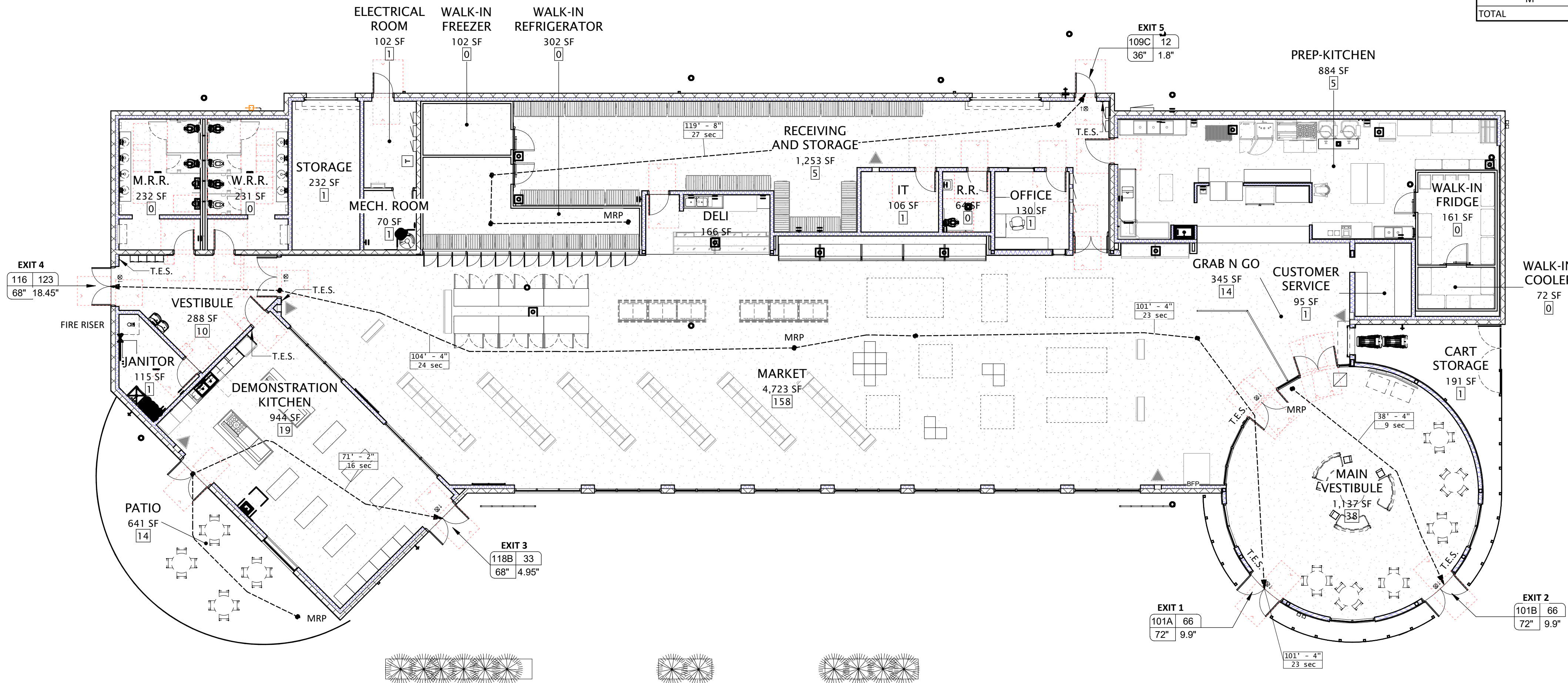
- a. "Mass walls" shall be in accordance with Section C402.2.2.
b. R-5, 7ci is allowed to be substituted with concrete block walls complying with ASTM C90, ungrouted or partially grouted at 32 inches or less on center vertically and 48 inches or less on center horizontally, with ungrouted cores filled with materials having a maximum thermal conductivity of 0.44 Btu-in/h-°F.

BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS
PER TABLE C402.4

CLIMATE ZONE: 2		
VERTICAL FENESTRATION		
U-FACTOR		
FIXED FENESTRATION	0.50	
ENTRANCE DOORS	0.83	
SHGC		
ORIENTATION ^a	SEW	N
PF ≥ 0.5	0.40	0.40

PLUMBING FIXTURE CALCULATIONS
PER CHAPTER 29, TABLE 2902.1

PLUMBING FIXTURES IN RESTROOMS									
WATER CLOSETS					LAVATORIES				
MALE				FEMALE		MALE		FEMALE	
REQ'D	PRV'D	URINAL SUB		REQ'D	PRV'D	REQ'D	PRV'D	REQ'D	PRV'D
		MAX SUB	SUB						
1	2	1	2	1	5	1	4	1	4
WATER CLOSETS - BASED ON OCCUPANT LOAD									
OCCUPANCY GROUP		OCC LOAD	MALE		FEMALE		MAX URINAL SUBSTITUTION		
			RAW	RND'D	RAW	RND'D	RAW	RND'D	
M		277	0.28		0.28		0.14		
TOTAL			0.28	1	0.28	1	0.14	1	
LAVATORIES - BASED ON OCCUPANT LOAD									
OCCUPANCY GROUP		OCC LOAD	MALE		FEMALE				
			RAW	RND'D	RAW	RND'D			
M		277	0.19		0.19				
TOTAL			0.19	1	0.19	1			
DRINKING FOUNTAINS									
OCCUPANCY GROUP		OCC LOAD	FIXTURE COUNT		BOTTLE FILLER SUBSTITUTION				
			RAW	RND'D	RAW	RND'D			
M		277	0.28		0.14				
TOTAL			0.28	1	0.14	0			



LEGEND OF SYMBOLS:

----- COMMON PATH OF TRAVEL/TOTAL TRAVEL DISTANCE
[Symbol] ROOM OCCUPANT LOAD, -PER TABLE 1004.1.1 ABOVE THE FINISH FLOOR TO THE CENTER OF THE SIGN.
NOTE: TRAVEL DISTANCE INDICATED ARE FROM MOST REMOTE POINT TO EXIT DOOR THRU PATH INDICATED. TOTAL TRAVEL DISTANCE INCLUDE THE COMMON PATH OF TRAVEL DISTANCE.

T.E.S. TACTILE EXIT SIGN LOCATED AT 60" ABOVE THE FINISH FLOOR TO THE CENTER OF THE SIGN.

[Symbol] MANEUVERING SPACE REQUIREMENTS AT EACH DOOR PER ICC/ANSI A117.1 SET STANDARD ACCESSIBILITY DETAILS SHEET

[Symbol] PARTIALLY RECESSED 5 LBS ABC FIRE EXTINGUISHER (2-A, 10B:C) IN CABINET

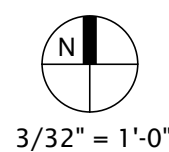
[Symbol] MOST REMOTE POINT.

[Symbol] EXIT SIGN, SEE ELECTRICAL DRAWINGS

D# = DOOR NUMBER
DW = DOOR WIDTH, SEE DOOR SCHED.
RW = REQUIRED DOOR WIDTH
OCC = OCCUPANT LOAD AT DOOR

[Symbol] TRAVEL DISTANCE, FEET & INCHES TIME, IN SECONDS

EGRESS PLAN LEVEL



Pascua Yaqui Tribe

7490 S CAMINO DE OESTE
TUCSON, AZ 85757

Micro Market

5010 W CALLE TORIM
TUCSON, AZ 85757



PROJECT LOCATION		
CALLE TORIM	S CAMINO POTAM	S CAMINO COCOM
W TAROOK		W TAROOK

VICINITY

REVISION	DESCRIPTION	DATE
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PROJECT NO. 23C-001
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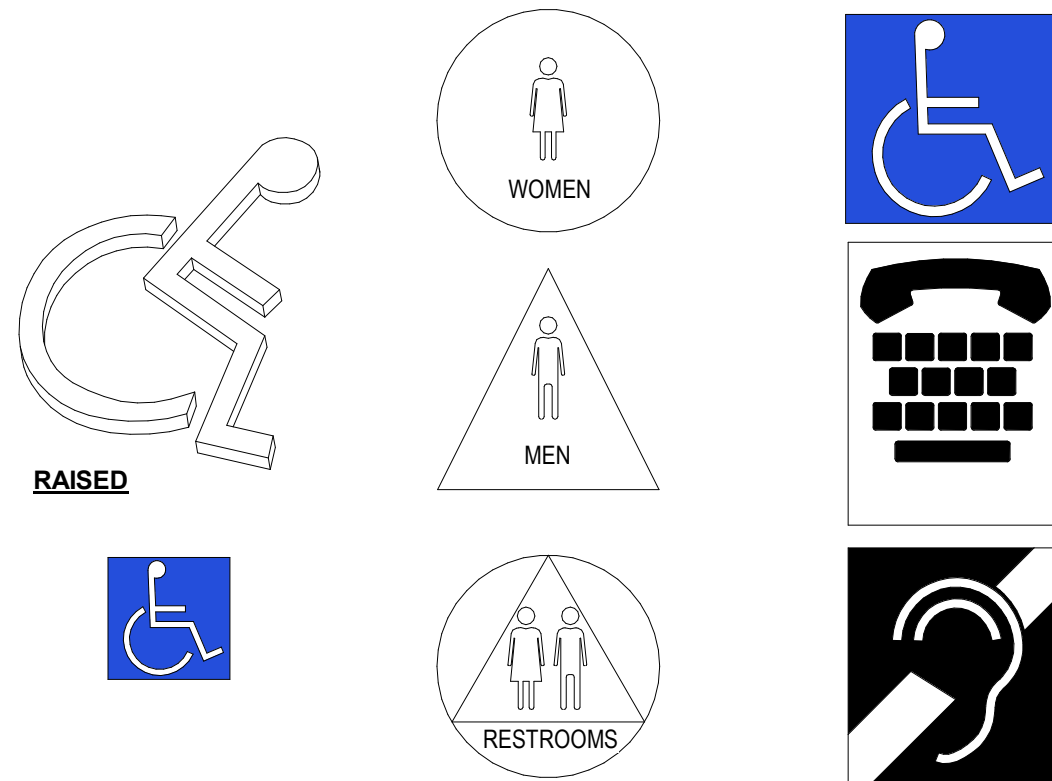
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SHEET TITLE

CODE SHEET

DATE 01.20.2025
SHEET

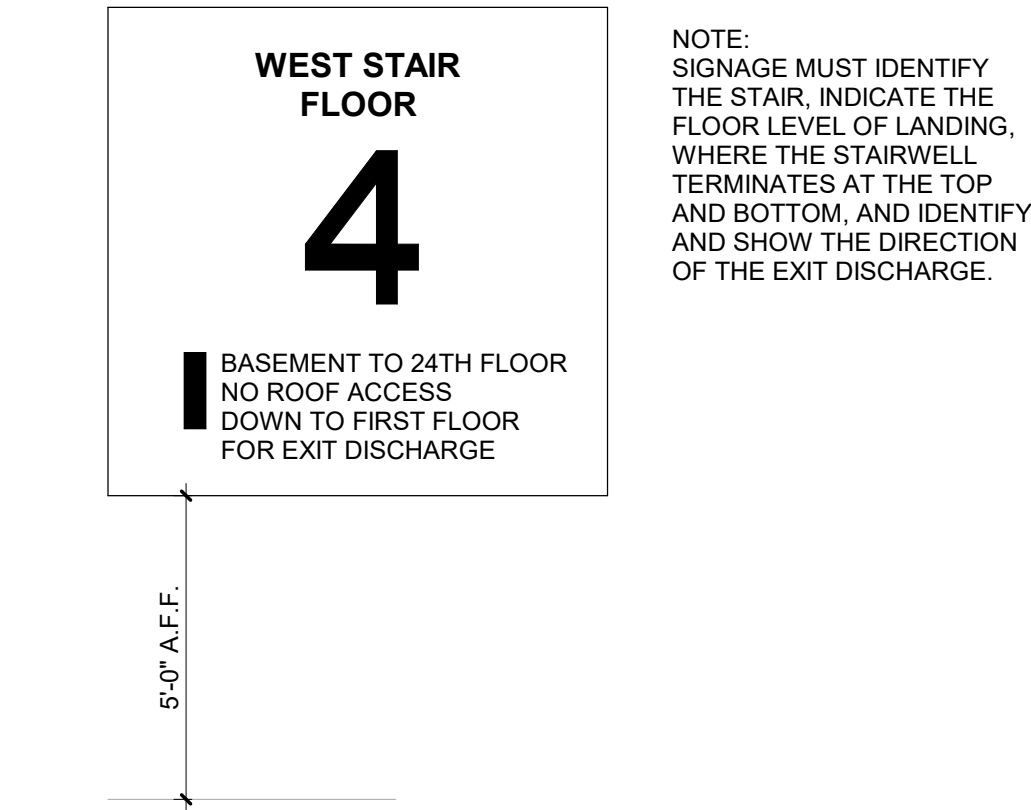
G102



- LETTERS AND NUMBERS:**
1. WIDTH TO HEIGHT RATIO BETWEEN 3 : 5 AND 1 : 1.
 2. STROKE WIDTH TO HEIGHT BETWEEN 1 : 5 AND 1 : 10.
 3. CONTRAST CHARACTERS AND SYMBOLS WITH BACKGROUND.
 4. SANS SERIF CHARACTERS.
- SIGNS / PICTOGRAMS:**
1. PICTOGRAMS / PICTORIAL SYMBOLS SIGNS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAK DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION SHALL BE 6" MIN. HEIGHT.
 2. CHARACTERS AT BACKGROUNDS SHALL BE OF NON-GLARE CONTRASTING COLORS.
 3. SIGNS / PICTOGRAMS SHALL BE INSTALLED ON THE WALL ADJACENT TO DOOR LEADING TO THE ROOM OR SPACE THEY DESCRIBE AND AT 60" A.F.F. TO SIGN CENTERLINE AND WHERE A PERSON MAY APPROACH WITHIN 3' OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE DOOR SWING AREA.
 4. VERTICAL CLEARANCE AT SUSPENDED SIGNS WITH MINIMUM HEADROOM OF 80" REQUIRE MINIMUM 3" CHARACTER HEIGHT MEASURED BY USING UPPERCASE "X" CHARACTERS AND NUMBERS SHALL BE SIZED ACCORDING TO VIEWING DISTANCE FROM WHICH READ LOWER CASE CHARACTERS PERMITTED.
- SIGN LOCATIONS:**
1. ALL ACCESSIBLE ENTRANCES IDENTIFIED WITH MINIMUM OF ONE STANDARD SIGN.
 2. ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL REQUIRED.
 3. BUILDINGS REMODELED TO PROVIDE ACCESSIBLE SANITARY FACILITIES FOR PUBLIC USE SHALL HAVE INFORMATION POSTED IN THE LOBBY AS PART OF THE **INTERNATIONAL SYMBOL OF ACCESSIBILITY:**
1. STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.
 2. WITH THE FIGURE ON BLUE BACKGROUND, COLOR 15090 ON FEDERAL STANDARD 595A.
 3. WHEN ENFORCING AGENCIES DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED.
- BRAILLE:**
1. USE CONTRASTED GRADE 2 BRAILLE DOTS TO BE 0.1 INCH ON CENTER IN EACH CELL.
 2. 0.2 INCH SPACE BETWEEN CELLS.
 3. DOTS RAISED MINIMUM 0.025 INCH ABOVE BACKGROUND.

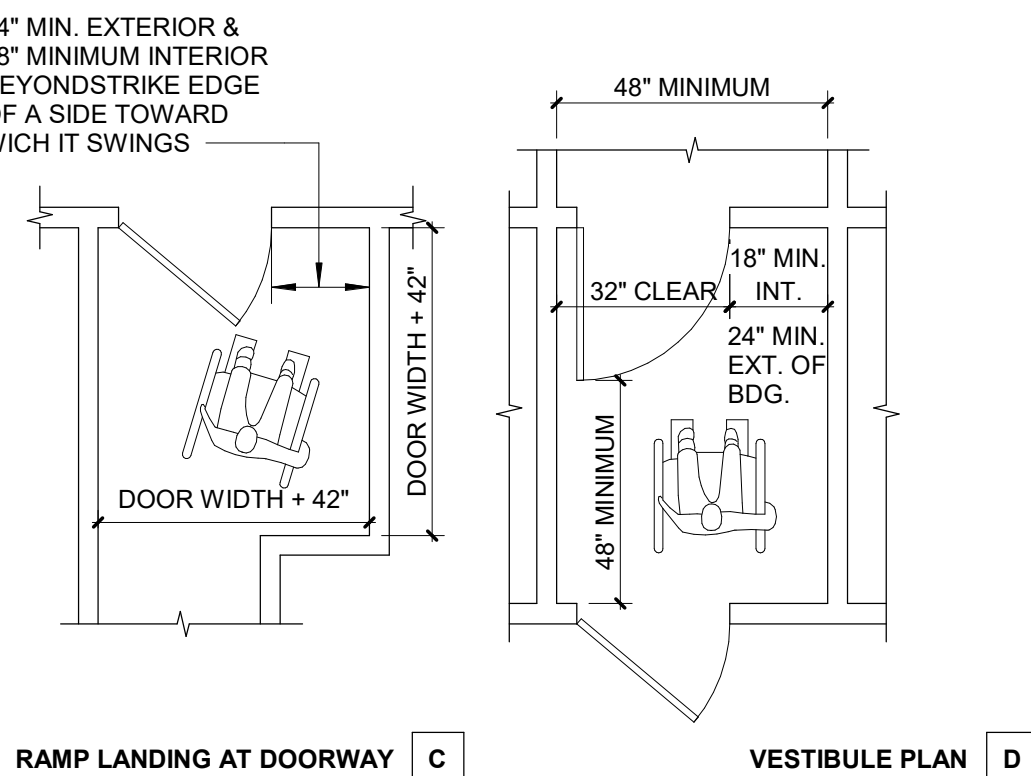
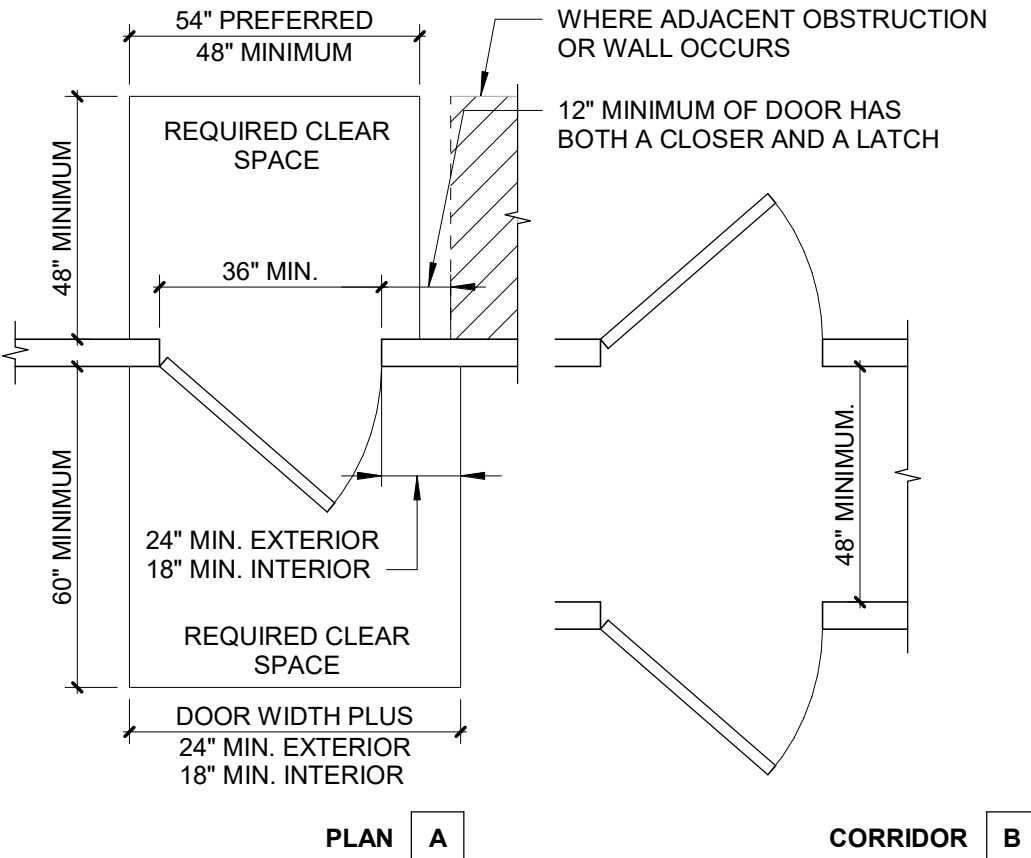
ADA SIGNS & PICTOGRAMS 9

1/4" = 1'-0"



EXIT STAIR SIGNAGE 8

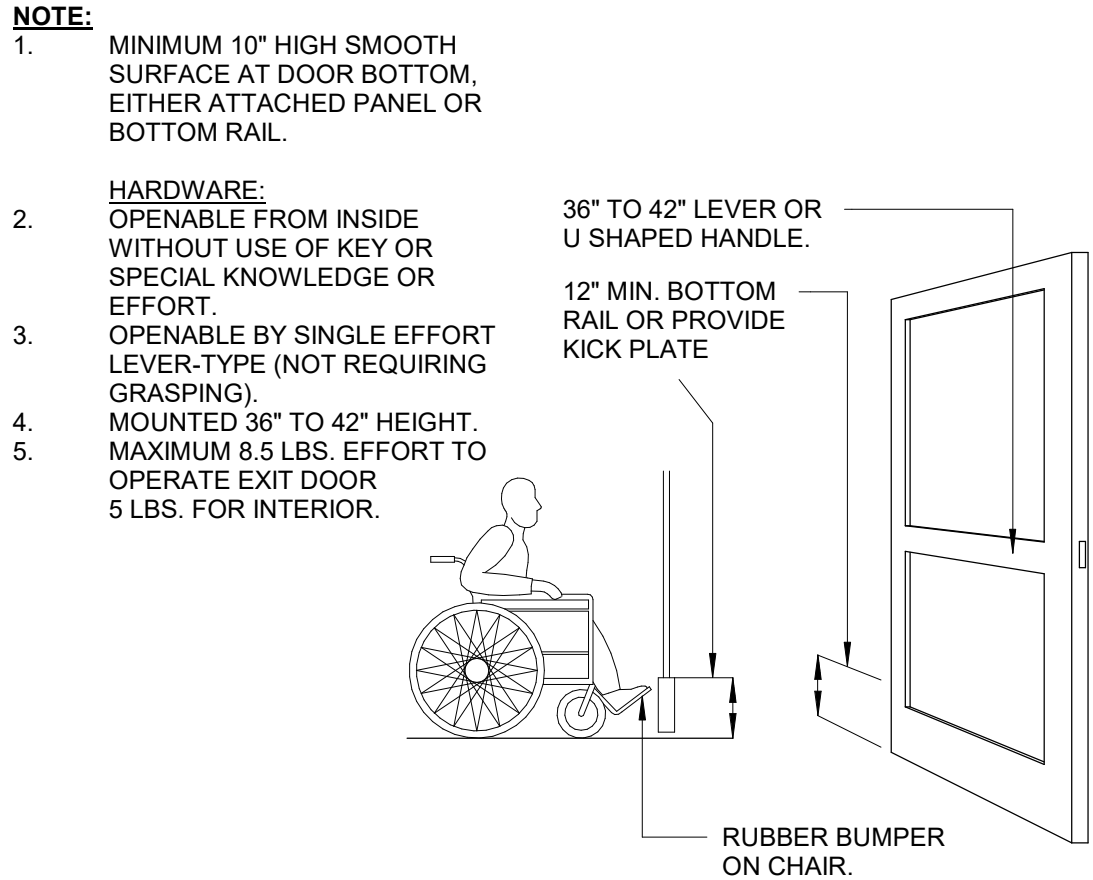
1/4" = 1'-0"



- NOTE:**
1. CLEAR SPACES MUST BE LEVEL TO PREVENT WHEEL CHAIRS FROM ROLLING WHEN THE OCCUPANT RELEASES THE WHEEL GRIPS TO REACH FOR THE DOOR. 1/4" PER FOOT IS ALLOWED FOR DRAINAGE.
 2. WHERE DOORS OPEN ONTO, BUT NOT INTO A CORRIDOR, THE REQUIRED LEVEL AREA BEYOND THE DOORS MAY BE A MINIMUM OF 48". FOR ADDITIONAL INFORMATION, SEE APPLICABLE NOTES, TYPICAL ACCESSIBILITY NOTES SHEET.

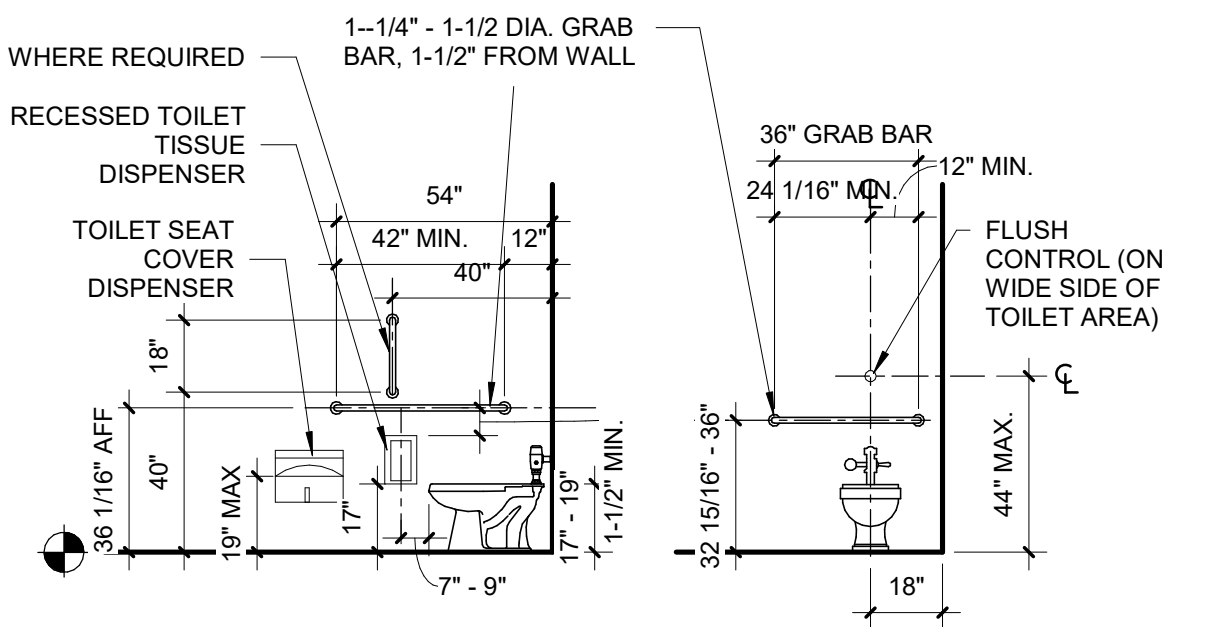
ADA CLEARANCES @ DOORS 7

1/4" = 1'-0"



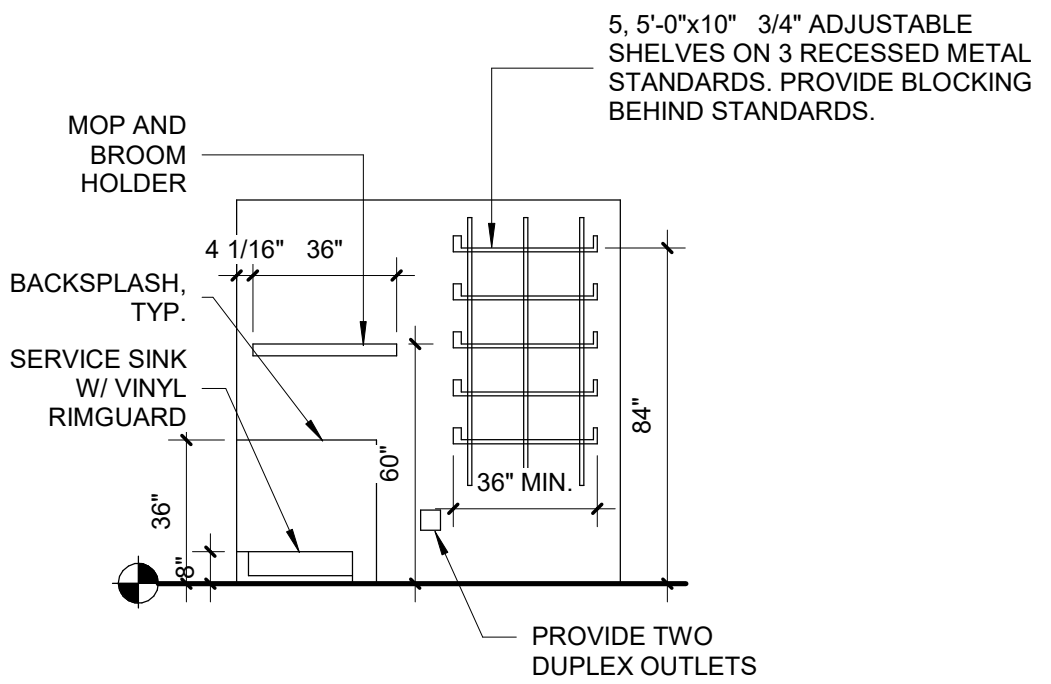
ADA DOOR REQUIREMENTS 6

1/4" = 1'-0"



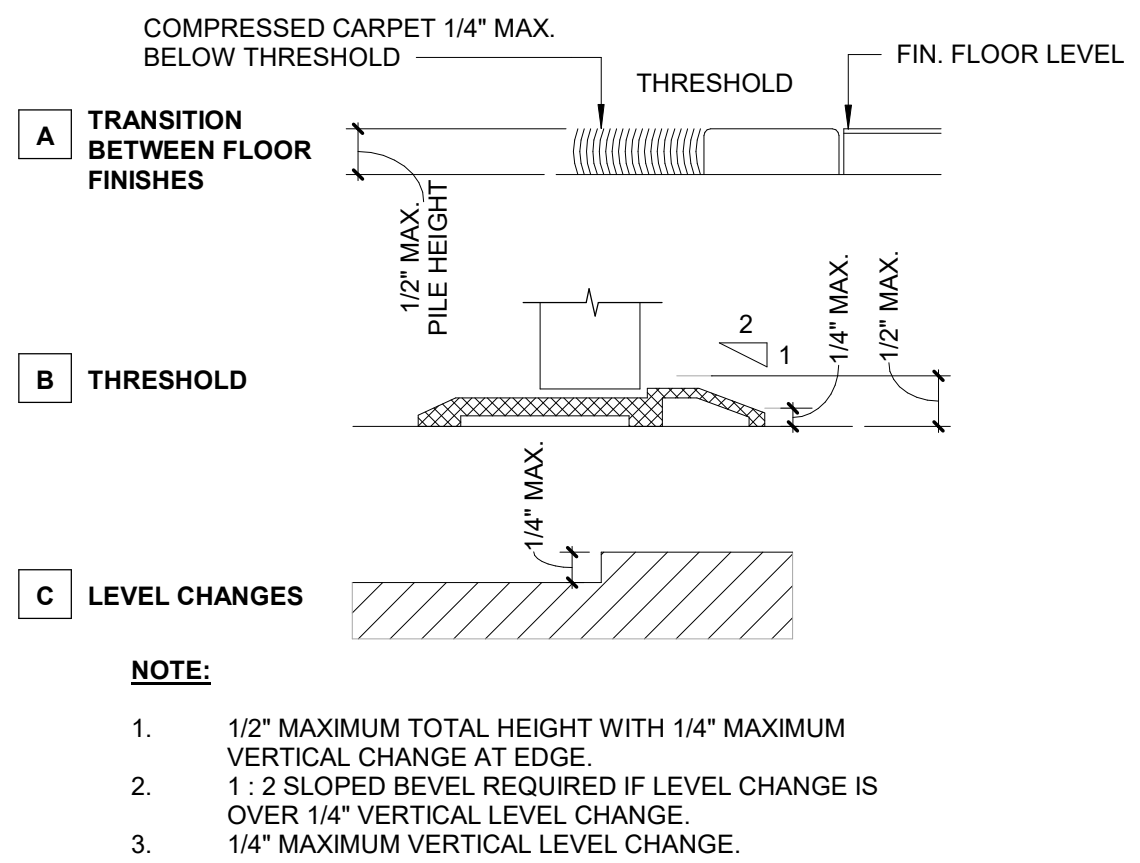
ACC. TOILET FIXTURES 5

1/4" = 1'-0"



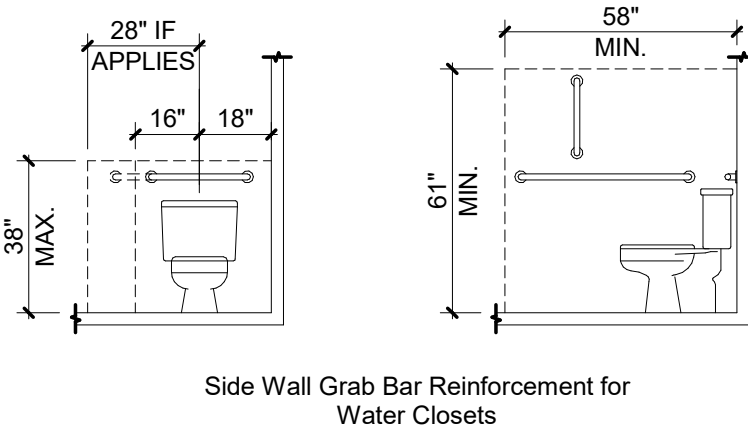
CUSTODIAL CLOSETS 4

1/4" = 1'-0"



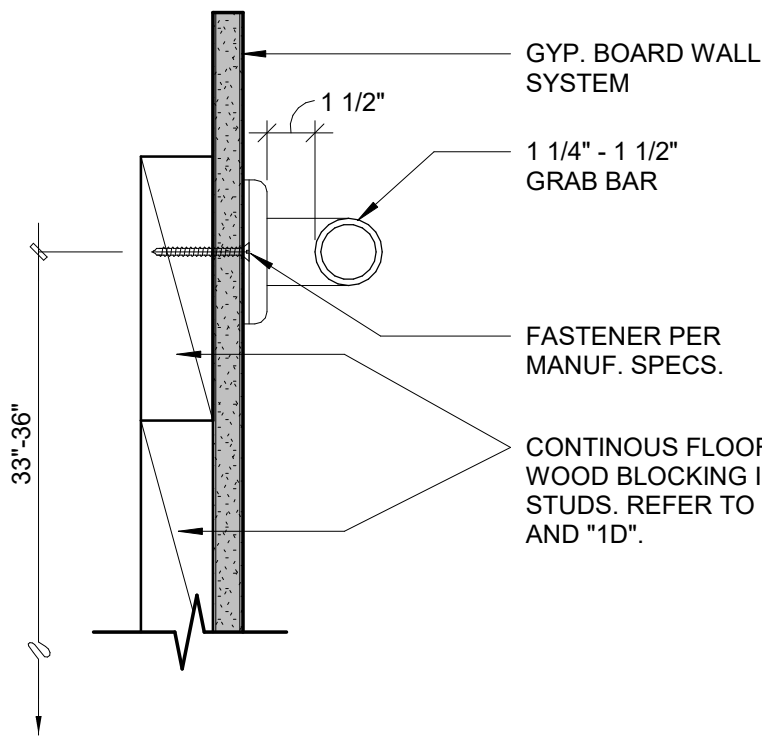
ADA THRESHOLD REQUIREMENTS 3

1/4" = 1'-0"



ADA WC BAR REINFORCING 2

1/4" = 1'-0"



- BLOCKING NOTES:**
1. BENDING STRESS IN A GRAB BAR INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250 LB-FT SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR.
 2. SHEAR STRESS INDUCED IN A GRAB BAR BY THE APPLICATION OF 250 LB-FT SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR.
 3. IF THE CONNECTION BETWEEN THE GRAB BAR AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
 4. SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 LB-FT SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD.
 5. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 LB-FT PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 LB-FT SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE.
 6. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

ADA GRAB BAR BLOCKING DETAIL 1

3" = 1'-0"



Pascua Yaqui Tribe

Micro Market



PROJECT LOCATION

VICINITY

REVISION	DESCRIPTION	DATE
NUMBER		

PROJECT NO.	23C-001
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SHEET TITLE

ACCESSIBILITY DETAILS

DATE	01.20.2025
SHEET	

G104

1. CONTRACTOR TO COORDINATE WITH OWNER ALL DAMAGED EXISTING CONDITIONS PRIOR TO START OF WORK.
2. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING CONDITIONS AND DIMENSIONS AT JOB SITE FOR COMPARISON WITH DRAWINGS AND SPECIFICATIONS PRIOR TO START OF AND DURING CONSTRUCTION. IF ANY DISCREPANCIES, INCONSISTENCIES OR OMISSIONS ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IN WRITING FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
3. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL RELY ON WRITTEN DIMENSIONS AS GIVEN. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR AND COORDINATED WITH ALL OF THE WORK OF ALL TRADES. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE THE COMMENCEMENT OF RESUMPTION WORK.
4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASUREMENTS TO PROTECT THE PUBLIC FROM ADJACENT CONSTRUCTION AND PROPERTIES FROM DAMAGE DUE TO THE CONSTRUCTION.
5. LEGAL EXITS SHALL NOT BE BLOCKED AT ANY TIME.
6. "EXIT" SIGN SHALL BE INSTALLED WHERE REQUIRED. LOCATE AS SHOWN ON DRAWINGS AND AS DIRECTED BY ARCHITECT AND BUILDING INSPECTORS IN FIELD.
7. LOCATE FIRE EXTINGUISHER AS SHOWN ON DRAWINGS, AS SPECIFIED AND AS DIRECTED BY THE FIRE MARSHALL OR LOCAL TRIBE FIRE CHIEF AS APPLICABLE.
8. ACCESSIBILITY: THE FACILITY SHOWN ON THESE DRAWINGS WAS DESIGNED TO THE BEST OF OUR KNOWLEDGE AND INFORMATION, IN ACCORDANCE WITH THE AMERICAN WITH DISABILITIES ACT AND ACCESSIBILITY STANDARDS.
9. WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES.
10. WHEN WORK NOT SPECIALLY CALLED OUT, OR IF WORK IS REQUIRED TO COMPLETE THE PROJECT, OR INDIVIDUAL PORTIONS OF THE PROJECT, IT SHALL BE PROVIDED AND SHALL BE OF THE BEST MATERIALS AND WORKMANSHIP.
11. THE OWNER MAY UTILIZE SEPARATE CONTRACTORS (I.E. SPECIAL SYSTEMS, ETC.) DURING THE COURSE OF THE CONSTRUCTION. THE CONTRACTOR, AS A COURTESY TO THE OWNER, IS TO COMMUNICATE AND COORDINATE WORK SCHEDULES WITH THE OWNER'S SEPARATE CONTRACTORS TO INSURE NON-CONFLICT WORK AND SCHEDULES.
12. DETAILS ARE TYPICAL OR SIMILAR THROUGHOUT, SUBJECT TO MODIFICATION FOR SPECIFIC CONDITIONS.
13. WRAP ALL EXPOSED WASTE AND HOT WATER PIPING WITH AN APPROVED THERMAL INSULATION, TRUEBO, PLUMBEREX, OR EQUAL.
14. ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE.
15. PAINT ALL EXPOSED MATERIALS ON THE PROJECT BY SPECIFICATION REQUIREMENTS U.N.O. COORDINATE WITH ARCHITECT FOR ANY UNCLEAR CONDITION.
16. FINAL CLEANUP AND DISPOSAL: REMOVE DEBRIS, RUBBISH AND WASTE MATERIAL FROM THE SITE TO A LAWFUL DISPOSAL AREA AND PAY ALL HAULING AND DUMPING COSTS. CONFORM TO PERTAINING FEDERAL STATE AND LOCAL LAWS, REGULATIONS AND ORDERS UPON COMPLETION OF WORK. ALL CONSTRUCTIONS AREAS SHALL BE LEFT VACUUM-CLEAN AND FREE FROM DEBRIS. CLEAN ALL DUST, DIRT, STAINS, AND MARKS, PAINT, SPOTS, DROPPINGS, AND OTHER BLEMISHES.

SOUND TRANSMISSION GUIDELINES AND PARTITION NOTES:

1. WALL GYPSUM BOARD PARTITIONS SURROUNDING RESTROOMS, CORRIDORS, SHAFTS, BETWEEN RESTROOMS AND WHEREVER ACOUSTIC INSULATION IS CALLED FOR, TO BE PERIMETER SEALED. AT THE HEAD AND SILL ONE CONTINUOUS CAULKED ON EACH SIDE TO FILL THE GAP BETWEEN THE GYPSUM BOARD AND THE FLOOR AND CEILING. AT VERTICAL INTERSECTIONS, ONE CAULK BEAD SHALL BE RUN UNDER THE VERTICAL WOOD STUD AND ONE CAULK BEAD ON EACH SIDE TO FILL THE GAP WHERE THE GYPSUM BOARD MEETS A COLUMN OR PARTITION ELEMENT, NO GAPS OR VOIDS ARE PERMITTED.
2. GYPSUM BOARD SURFACE OR DRYWALL PARTITIONS ADJACENT TO WET OR HUMID AREAS, I.E. TOILETS, KITCHEN, AND BATHS, SHALL BE CONSTRUCTED WITH WATER RESISTANT (WR) GYPSUM BOARD ON ALL DRYWALL SURFACES. AT ROOM, WALL IMMEDIATELY ADJACENT TO BATHTUB AND INTEND TO BE FINISHED WITH CERAMIC TILE SHALL BE CONSTRUCTED WITH WATER RESISTANT (WR) GYPSUM BOARD FROM TUB RIM TO CEILING.
3. ALL INSULATION MATERIALS INCLUDING FACINGS, SUCH AS VAPOR BARRIERS OR BREATHABLE PAPERS INSTALLED WITHIN CEILING ASSEMBLIES, ROOF/CEILING ASSEMBLIES, WALLS OR ATTIC, SHALL HAVE A MINIMUM LEAK RATE NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH THE UL 155.
4. IN SOUND INSULATED AREAS, COVERED THE EXTERIOR OF OUTLET BOXES WITH AN APPROVED RESILIENT TAPE PRIOR TO MOUNTING, PLACE RESILIENT PAD (MINIMUM OF 1/16" THICK) BETWEEN MOUNTING BRACKET AND THE STRUCTURAL SUPPORT, TAPE CABLE AND CONDUIT CONNECTION TO BOX UNTIL AIRTIGHT. FLEXIBLE CONDUIT AND CABLE NEED NO INSULATION EXCEPT AT THE POINT OF PENETRATION WHERE AN AIRTIGHT SEAL MUST BE MADE RIGID, NMT AND EMT CONDUIT AND BOXES SHALL BE INSTALLED WITH APPROVED RESILIENT MATERIALS AND FASTENERS AT SUPPORTS AND SEALED AIRTIGHT AT PENETRATIONS. OUTLET BOXES SHALL BE LIMITED TO A MAXIMUM DIMENSIONS OF 6", AND IF LOCATED ON OPPOSITE SURFACES, MUST OFFSET 24" OR MORE AND BE SEALED AS IN ABOVE DIRECTIONS. OUTLET BOXES IN FLOOR/ CEILING ASSEMBLIES ARE PERMITTED IF TREATED AS REQUIRED FOR BOXES IN WALL ASSEMBLIES.

EQUIPMENT INSTALLATION NOTES:

1. VERIFY THAT NEW WORK WILL ADEQUATELY FIT IN THE SPACE PROVIDED. MAINTAIN ALL MANUFACTURER'S RECOMMENDED AND CODE REQUIRED CLEARANCES ALL AROUND EQUIPMENT.



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FORMATION

Pascua Yaqui Tribe

7490 S CAMINO DE OESTE
TUCSON, AZ 85757

Micro Market

5010 W CALLE TORIM
TUCSON, AZ 85757



PROJECT

ABSTRACT

SCAMINO POTAM

EL CAMINO COCA

CALLE TORINO

W TAROOI

W TAROOK

VICINITY

REVISION		
NUMBER	DESCRIPTION	DATE

PROJECT NO.	23C-001
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SHEET TITLE:

GENERAL NOTES

DATE	01.20.2025
SHEET	0105

SHEE

G105

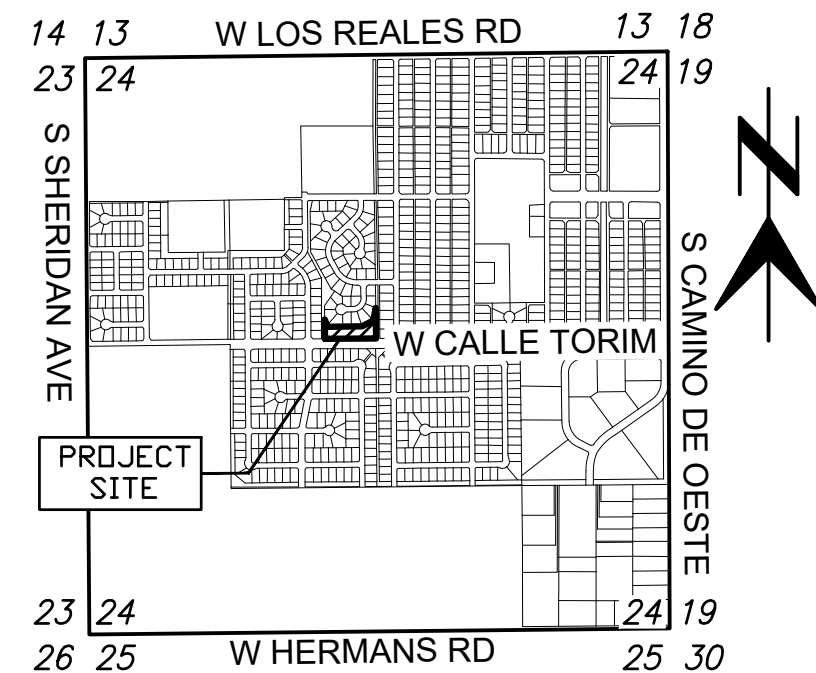
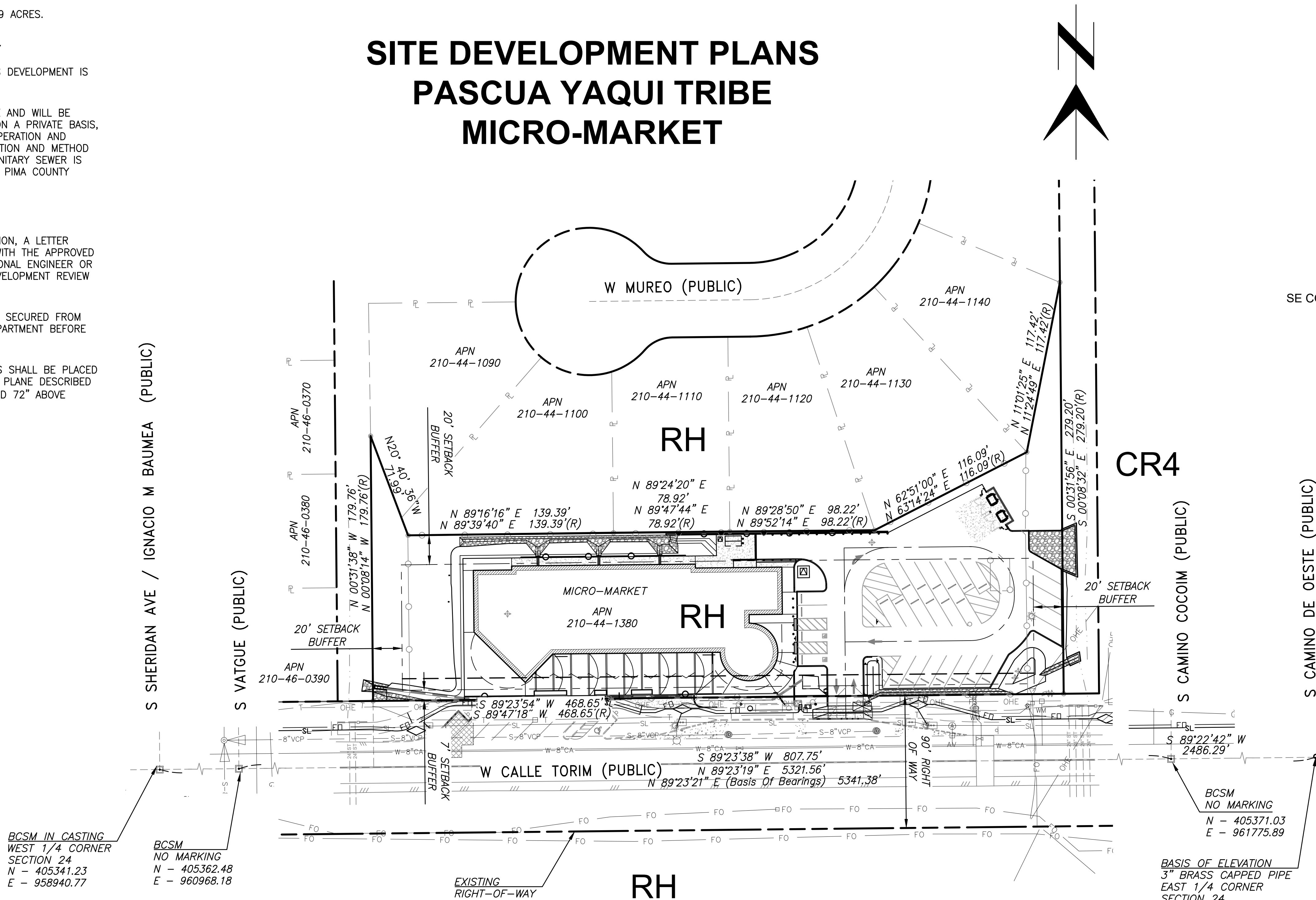
GENERAL NOTES:

1. THE GROSS AREA OF DEVELOPMENT IS 1.349 ACRES.
2. ASSESSORS TAX PARCEL NO. 210-44-1380.
3. THE WATER COMPANY THAT WILL SERVE THIS DEVELOPMENT IS TUCSON WATER.
4. ON-SITE SANITARY SEWERS WILL BE PRIVATE AND WILL BE CONSTRUCTED, OPERATED AND MAINTAINED ON A PRIVATE BASIS, AND IN ACCORDANCE WITH AN APPROVED OPERATION AND MAINTENANCE PLAN, IF REQUIRED. THE LOCATION AND METHOD OF CONNECTION TO AN EXISTING PUBLIC SANITARY SEWER IS SUBJECT TO REVIEW AND APPROVAL BY THE PIMA COUNTY WASTEWATER MANAGEMENT DEPARTMENT.

PERMITTING NOTES:

1. PRIOR TO THE REQUEST FOR FINAL INSPECTION, A LETTER CERTIFYING COMPLETION IN CONFORMANCE WITH THE APPROVED PLANS, SEALED BY A REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT MUST BE SUBMITTED TO THE DEVELOPMENT REVIEW DIVISION.
2. A PROJECT CONSTRUCTION PERMIT MUST BE SECURED FROM PIMA COUNTY WASTEWATER MANAGEMENT DEPARTMENT BEFORE BEGINNING ANY WORK ON THIS PROJECT.
3. MATERIALS WITHIN SIGHT VISIBILITY TRIANGLES SHALL BE PLACED SO AS NOT TO INTERFERE WITH A VISIBILITY PLANE DESCRIBED BY TWO HORIZONTAL LINES LOCATED 30" AND 72" ABOVE FINISHED GRADE OF THE ROADWAY.

SITE DEVELOPMENT PLANS
PASCUA YAQUI TRIBE
MICRO-MARKET



LOCATION MAP

SCALE: 3" = 1 MILE
SE CORNER OF N/W 1/4 OF SECTION 24, T 15 S, R 12 E
PIMA COUNTY, ARIZONA

OWNER/DEVELOPER

PASCUA YAQUI TRIBE,
7474 S CAMINO DE OESTE,
TUCSON, AZ. 85757
ATTN: IAN GEITNER

ARCHITECT

MERGE ARCHITECTURAL GROUP,
CONTACT: CARLOS A. MURRIETA
E-MAIL: CAM@MERGEAG.COM
P: (602) 635-1581
600 N 4TH STREET, SUITE 112
PHOENIX, AZ. 85004
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ENGINEER

SOLIS ENGINEERING CO,
239 N. CHURCH AVENUE,
TUCSON, AZ. 85701
ATTN: RICARDO SOLIS, PE

HYDROLOGIST

CMG DRAINAGE ENGINEERING, INC.,
3555 N MOUNTAIN AVENUE,
TUCSON, AZ. 85719
ATTN: JERALD L. CURLESS, PE

SURVEYOR (BOUNDARY &
TOPOGRAPHY)

ALTA ARIZONA SURVEY-ENGINEERING-GEOTECH
2025 W RUTHRAUFF ROAD, SUITE 125
TUCSON, AZ. 85710
ATTN: PATRICIA GAJDA, RLS

SHEET INDEX

SHEET NO.	SHEET NAME	DESCRIPTION
1	CV1	COVER SHEET
2	GN1	GENERAL NOTES SHEET
3	SP1	SITE PLAN SHEET
4	DR1	DRAINAGE SHEET
5-7	GR1-GR3	GRADING SHEETS
8-9	GR4-GR5	STAKING SHEETS
10-12	DT1-DT3	DETAIL SHEETS
13	UT1	UTILITY PLAN SHEET

BASIS OF CONTROL:

BASIS OF BEARINGS:

BASIS OF BEARING WAS NORTH 89°23'21" EAST BETWEEN THE PIMA ASSOCIATION OF GOVERNMENTS GEODETIC CONTROL POINTS "TP21" AND "HP02" THE ARIZONA STATE PLANE COORDINATES WERE SCALED TO CREATE A MODIFIED COORDINATE SYSTEM AT GROUND VALUES. THE INVERSE OF THE COMBINED GRID FACTOR 0.99985667320 (1/X=1.000143289) WAS APPLIED TO POINT "HP02" TO PRODUCE THE FINAL GROUND COORDINATES.

BASIS OF ELEVATIONS:

BASIS OF ELEVATION WAS 2576.76(NAVD88) ACCORDING TO THE PIMA ASSOCIATION OF GOVERNMENTS GEODETIC CONTROL POINT "HP02" DESCRIBED AS A 3" BLM BRASS CAPPED PIPE MONUMENTING THE EAST 1/4 CORNER OF SECTION 24.

LEGAL DESCRIPTION:

ALL PARTS OF LOT 50 (PARCEL NUMBER 210-44-1380), BLOCK 40 OF "PASCUA YAQUI HOUSING AZ 40-1" RECORDED IN BOOK 64 OF MAPS & PLATS AT PAGE 78 LOCATED IN THE NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 15 SOUTH, RANGE 12 EAST, GLA AND SALT RIVER MERIDIAN, PIMA COUNTY, ARIZONA

PROJECT ADDRESS: 5010 W CALLE TORIM TUCSON, AZ 85757

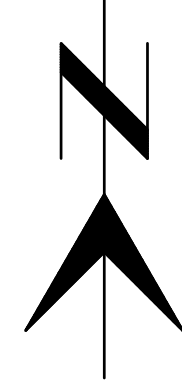
No.	Revision	Description	Engineer	Date

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Tucson, Arizona 85747 (520) 207-0742

SITE DEVELOPMENT PLANS
PASCUA YAQUI TRIBE
MICRO-MARKET
COVER SHEET

Job Number	P001012023
Design	BSH
Drafting	BSH
Checked	RPS
Appr.	RPS
Date	09-09-24
Sheet Description CV1	
COVER SHEET	
Sheet	1 of 13





RH

RH

RH

CR4

DEMOLITION KEYNOTES

- 1 REMOVE EXISTING LIGHT POLE BY TRICO (OR OTHERS)
- 2 REMOVE EXISTING SIDEWALK
- 3 REMOVE EXISTING CURB
- 4 REMOVE EXISTING FENCE (SEE NOTE 5)
- 5 NOT USED
- 6 REMOVE EXISTING WATER SPIGGOT
- 7 REMOVE EXISTING 4" CAPPED PIPE
- 8 REMOVE AND SALVAGE EXISTING LANDSCAPE ROCK
- 9 REMOVE EXISTING HANDRAIL
- 10 RELOCATE EXISTING TRASH CAN
- 11 REMOVE EXISTING RETAINING WALL

CONSTRUCTION KEYNOTES

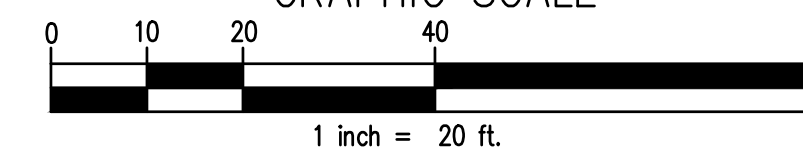
- 1 PAVEMENT SECTION NO 1
- 2 HANDRAIL (USE ANCHOR PLATES PER PAG 105) (SEE ARCHITECT PLANS)
- 3 REMOVABLE POST BARRICADE (PAG DTL. 107) (SEE NOTE 1)
- 4 PARKING LOT LIGHTING (SEE ELECTRICAL PLANS)
- 5 CONCRETE SIDEWALK (PAG DTL. 200) (THICKNESS 4") (FINISH PER ARCHITECT PLANS) (SEE NOTE 3)
- 6 CONCRETE SIDEWALK (PAG DTL. 200) (THICKNESS 6") (FINISH PER ARCHITECT PLANS) (SEE NOTE 3)
- 7 CONCRETE SIDEWALK CONSTRUCTION JOINT
- 8 CONCRETE SIDEWALK: NEW TO EXISTING CONDITION (PAG DTL. 203)
- 9 1'X3' CONCRETE TOWDOWN
- 10 DRIVEWAY APRON (PAG DTL. 206)
- 11 CONCRETE VERTICAL CURB (TYPE 2) (PAG DTL. 209)
- 12 CONCRETE CURB: NEW TO EXIST. CONNECTION (PAG DTL. 211)
- 13 CONCRETE CURB TERMINAL SECTION (PAG DTL. 212)
- 14 CONCRETE HEADER (PAG DTL. 213)
- 15 TRENCH PATCH (TYPE 1) (PAG DTL. 216)
- 16 CURB ACCESS RAMP DETECTABLE WARNING STRIP (CAST IRON) AND CONSTRUCTION NOTES (PAG DTL. 207) (SHEET 10 OF 10)
- 17 SIGHT VISIBILITY TRIANGLE FOR PROPOSED DEVELOPMENT
- 18 PAVEMENT MARKING (4" SOLID WHITE)
- 19 ACCESSABLE MARKINGS AND SIGNS (SEE DETAIL C)
- 20 DEPRESSED CURB OUTLET (SEE DETAIL B)
- 21 ASPHALTIC CONCRETE THICKENED EDGE (SEE DETAIL D)
- 22 CONCRETE WHEEL STOP (SEE DETAIL F)
- 23 GROUTED RIPRAP CHANNEL (SEE DETAIL G)
- 24 DUMPED RIPRAP (SEE DETAIL H)
- 25 ACCESSIBLE SIGN AND POST (SEE DETAIL C)
- 26 STAIRS (SEE DETAIL E)
- 27 BICYCLE RACK (SEE ARCHITECT PLANS FOR FINAL LOCATIONS AND DETAIL)
- 28 DOUBLE TRASH ENCLOSURE (SEE ARCHITECT PLANS)
- 29 POST BARRICADE (PAG DTL. 106) (TYPE B) (SEE NOTE 1)
- 30 TRASH ENCLOSURE PAD (SEE ARCHITECT PLANS)
- 31 NEW LOCATION FOR EXISTING TRASH CAN (SEE NOTE 2)
- 32 DECOMPOSED GRANITE (SEE NOTE 4)
- 33 NO RIGHT TURN SIGN (R-3-1) WITH SQUARE POST AND FOUNDATION
- 34 SIDEWALK SCUPPER (TYPE 1) (PAG DTL. 204) (SEE NOTE 7)
- 35 RETAINING WALL (SEE STRUCTURAL PLANS)
- 36 GREASE INTERCEPTOR (SEE NOTE 6)
- 37 DUMPED RIPRAP D50 = 6" T=12" OVER MIRAFI 180 N NONWOVEN GEOTEXTILE FABRIC
- 38 HANDPLACED GROUTED RIPRAP (SEE DETAIL A)
- 39 PAVEMENT LEGEND (SOLID WHITE)
- 40 DO NOT ENTER (R5-1) WITH SQUARE POST AND FOUNDATION (CONTINUOUS RED POST REFLECTOR FOR SQUARE POST DOT COMPLIANT)
- 41 18" ADS MEGA GREEN DUAL WALL STORM DRAIN PIPE (OR APPROVED EQUAL)
- 42 18" ADS DURASLOT XL TRENCH DRAIN WITH PEDESTIAN GRATE (OR APPROVED EQUAL) (SEE DETAIL E)
- 43 ADS MITERED BELL-BELL COUPLERS 18" DIAMETER (OR APPROVED EQUAL)
- 44 PARALLEL-DRAINAGE TYPE END SECTION (18", 10:1 SLOPE & SAFETY BARS) (ADOT PIPE, METAL SAFETY END SECTION) (SEE NOTE 8)
- 45 6" HDPE (25LF) (SEE DETAIL I)
- 46 ADS GROUND INSTALLATION OPTION PER PAG 105) (SEE ARCHITECT PLANS)

NOTES:

1. FILL POST BARRICADE WITH CONCRETE WITH A 1" SMOOTH DOME ON TOP. PAINT TO BE APPLIED PER SECTION 1006. COLOR TO BE SELECTED BY PASQUA YAQUI TRIBE.
2. WELD OR USE STEEL FASTENERS TO CONNECT A NEW 3' POST (4" CIRCULAR OR SQUARE POST) TO EXISTING TRASH CAN. POST TO BE INSTALLED IN SLEEVE OR DIRECTLY INTO A CONCRETE FOUNDATION.
3. USE 3000 PSI CONCRETE FOR ALL FLAT WORK. FOR SIDEWALK INSIDE THE RIGHT OF WAY THE FINISHED CONCRETE SURFACE SHALL BE PER PAG DTL. 200 SHEET 2 OF 2 NOTE 6.
4. APPLY DECOMPOSED GRANITE, 1" POORLY GRADED, TO A DEPTH OF 3". THE COLOR TO BE SELECTED BY THE PASQUA YAQUI TRIBE.
5. REMOVE EXISTING FENCE EXCEPT WHERE THE FENCE IS SHARED WITH AN ADJACENT PROPERTY OWNER.
6. GREASE INTERCEPTOR SHALL BE JENSEN PRECAST MODEL JP-1500-EE-G OR APPROVED EQUAL (SEE UTILITY PLAN).
7. CUT TOP OF STEEL TUBE NEXT TO BUILDING TO ALLOW FOR PENETRATION OF ROOF DRAIN PIPE. THE SCUPPERS MAY NEED BE TO ADJUSTED TO MATCH THE BUILDING ROOF DRAIN LOCATIONS.

8. PARALLEL-DRAINAGE TYPE END SECTION DETAIL CAN BE FOUND AT THE FOLLOWING WEB SITE: <https://azdot.gov/sites/default/files/2019/06/x1971.pdf>
9. REFER TO ELECTRICAL PLANS FOR CONDUIT LAYOUT AND PARKING LOT LIGHT LOCATIONS.
10. ADJUST CONCRETE SIDEWALK PANEL AS REQUIRED FOR UNDERGROUND UTILITY

GRAPHIC SCALE

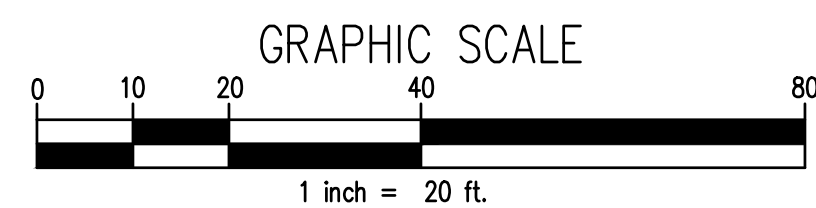
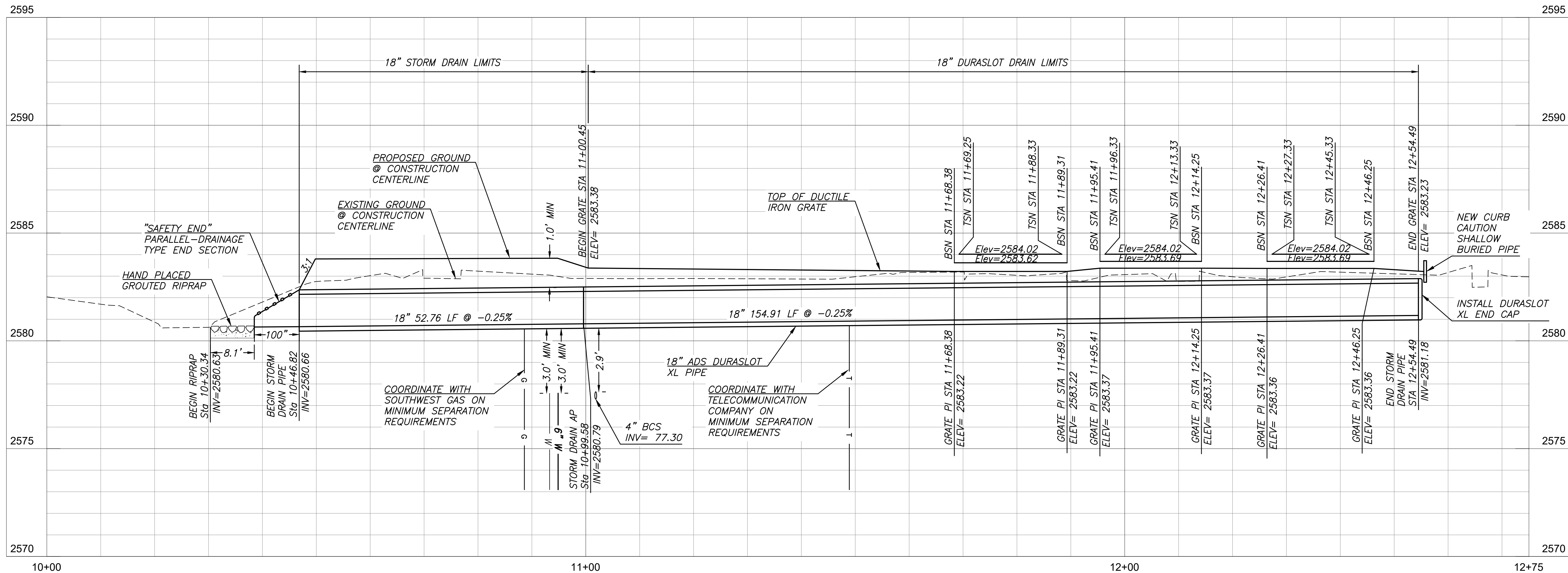
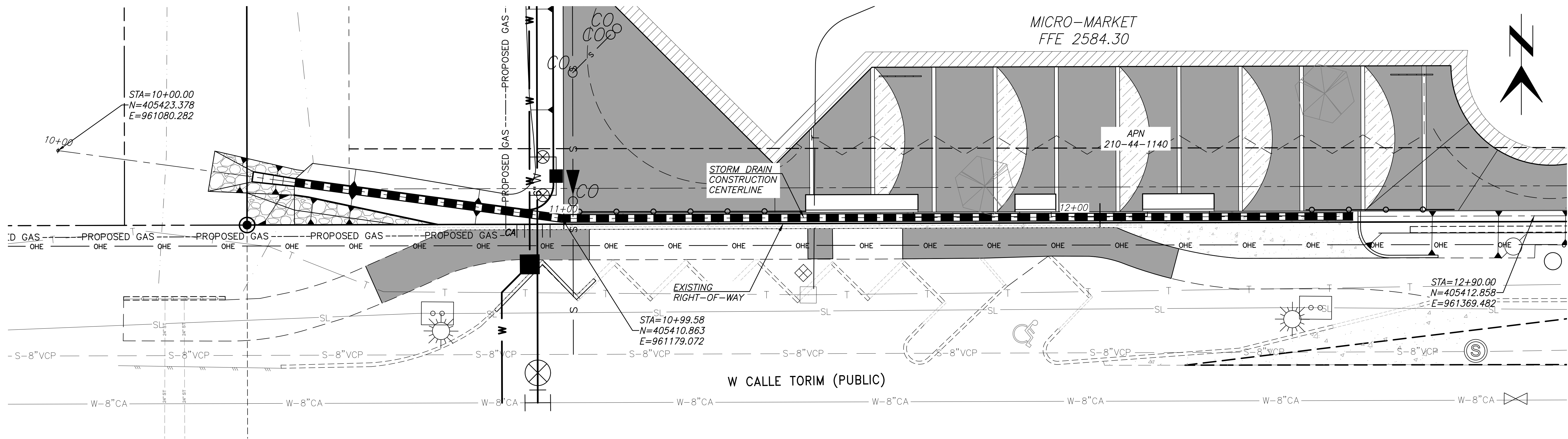


No.	Revision Description	Engineer	Date



SITE DEVELOPMENT PLANS
PASQUA YAQUI TRIBE
MICRO-MARKET
SITE PLAN SHEET

Job Number	P001012023
Design	BSH
Drafting	BSH
Checked	RPS
Appr.	RPS
Date	09-09-24
Sheet Description	SP1
SITE PLAN SHEET	
Sheet	3 of 13



No.	Revision	Description	Engineer	Date

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**SITE DEVELOPMENT PLANS
PASCUA YAQUI TRIBE
MICRO-MARKET
DRAINAGE PLAN &
PROFILE SHEET**

Job Number	P001012023
Design	BSH
Drafting	BSH
Checked	RPS
Appr.	RPS
Date	09-09-24
Sheet Description	DR1
DRAINAGE SHEET	Sheet 4 of 13

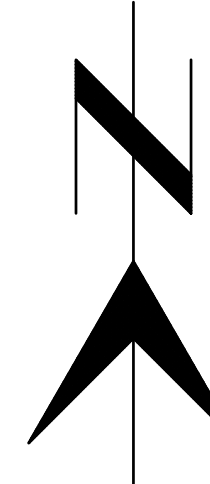


Sheet Description
GR1

GRADING SHEET

Sheet 5 of 13

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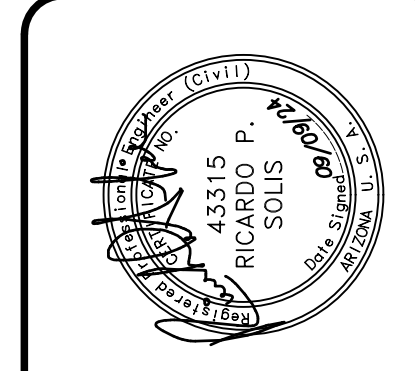


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Tucson, Arizona 85747 (520) 207-0742

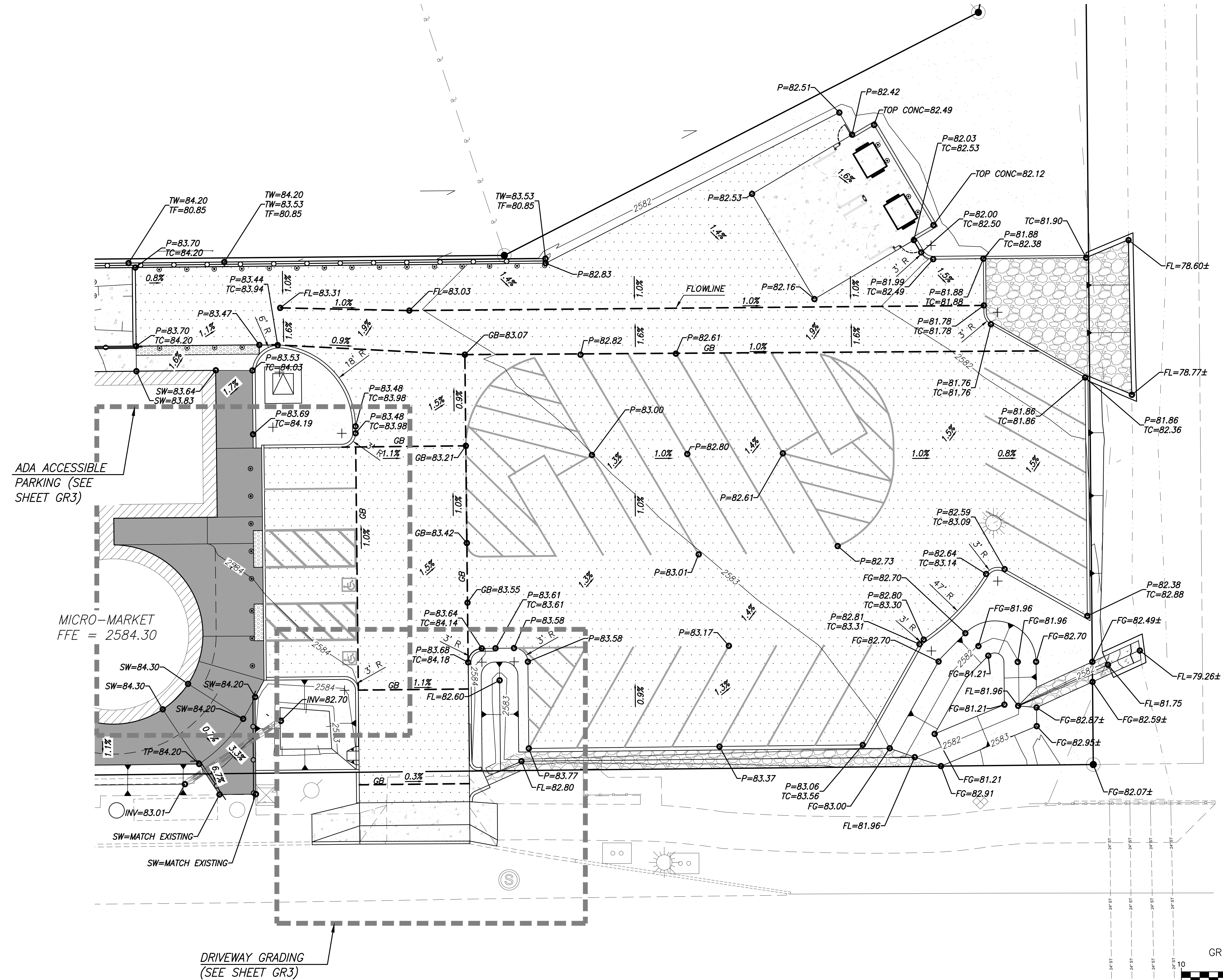
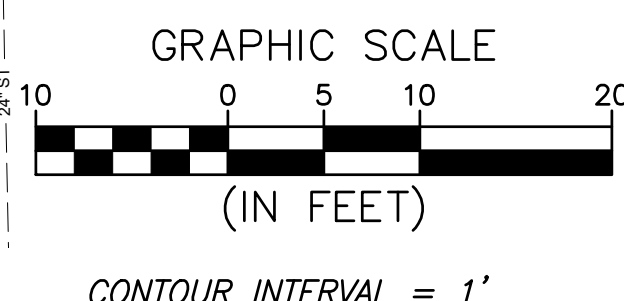
**SITE DEVELOPMENT PLANS
PASCUA YAQUI TRIBE
MICRO-MARKET
GRADING AND STAKING
PLAN SHEET**



Job Number	P001012023
Design	BSH
Drafting	BSH
Checked	RPS
Appr.	RPS
Date	09-09-24
Sheet Description	GR2
GRADING SHEET	Sheet 6 of 13

Contact Arizona 811 at least two full working days before you begin excavation.

ARIZONA
Call 811 or click Arizona811.com

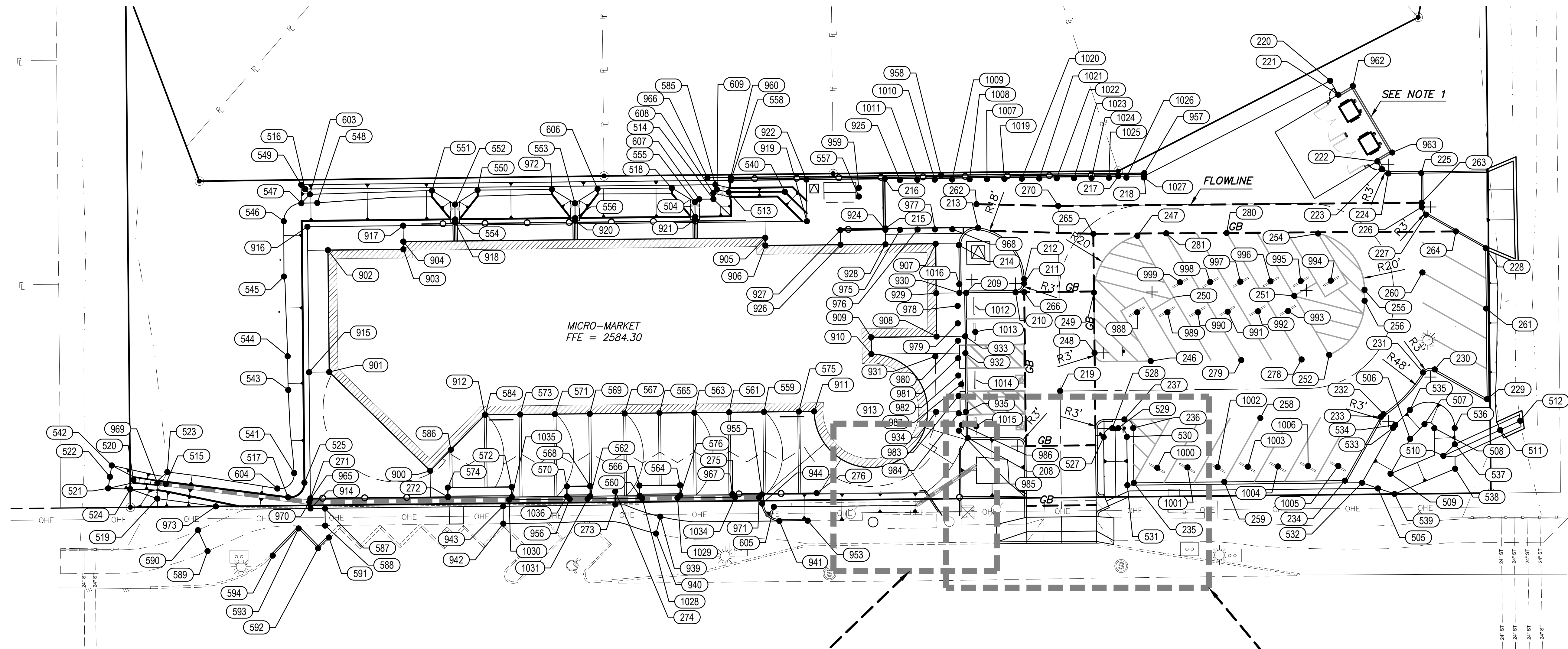


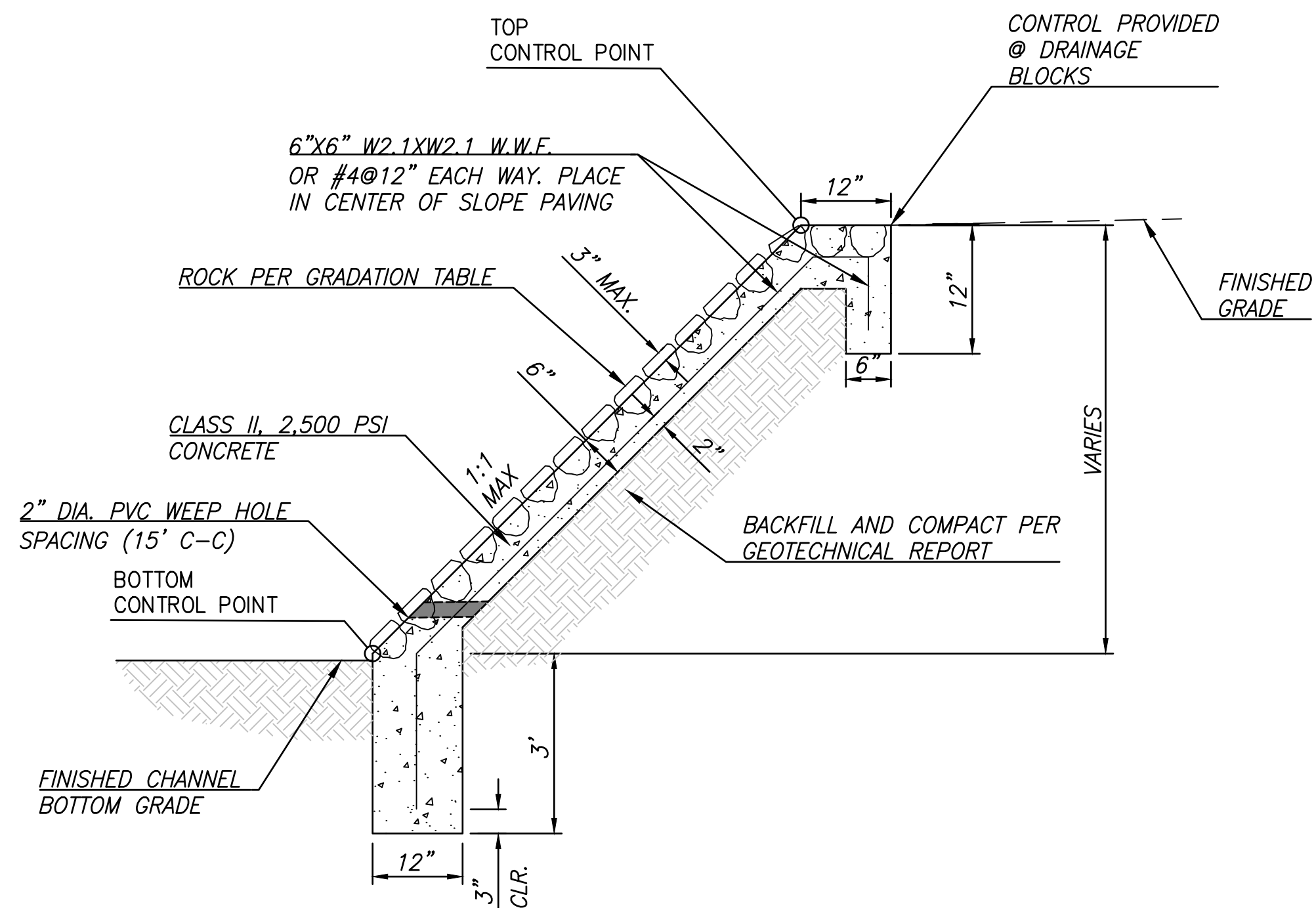
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XREFS: C:\Users\Bryon\OneDrive\Documents\2024\09\09\2024_PTC_Micro-Market\CA01_Sheet_Plan\GR01.dwg
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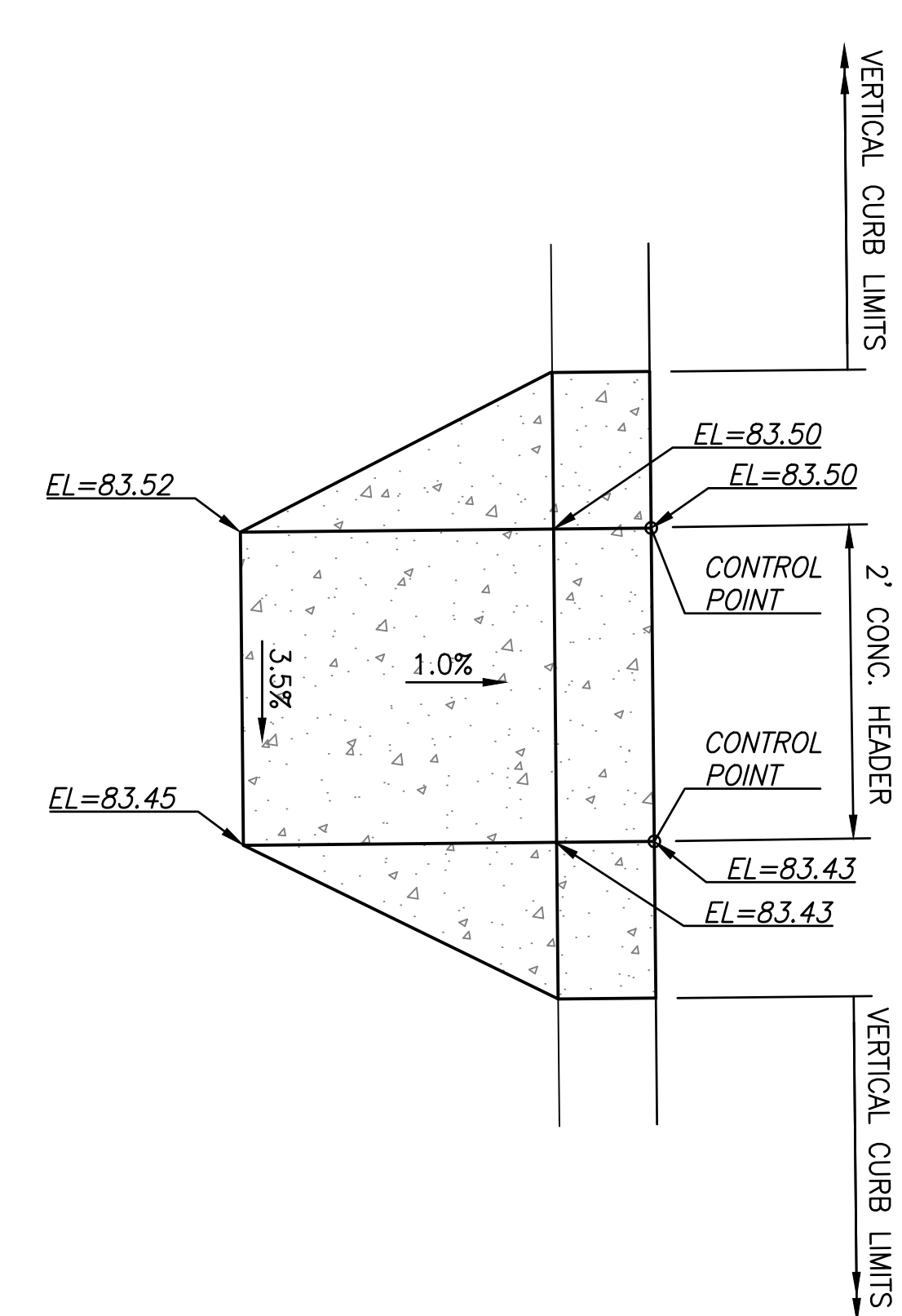
NOTES:

1. POINT NUMBER 963 IS THE OUTSIDE OF THE SOUTHEAST CORNER OF THE WALL FOR THE TRASH ENCLOSURE. POINT 962 IS A POINT ALONG THE BACK OF WALL TO PROVIDE A BEARING AND NOT A CORNER POINT FOR CONSTRUCTION. THE CONTRACTOR SHALL USE THE TRASH ENCLOSURE DETAIL ON THE ARCHITECTURAL PLANS TO DETERMINE THE DIMENSIONS OF THE WALL AND SLAB.

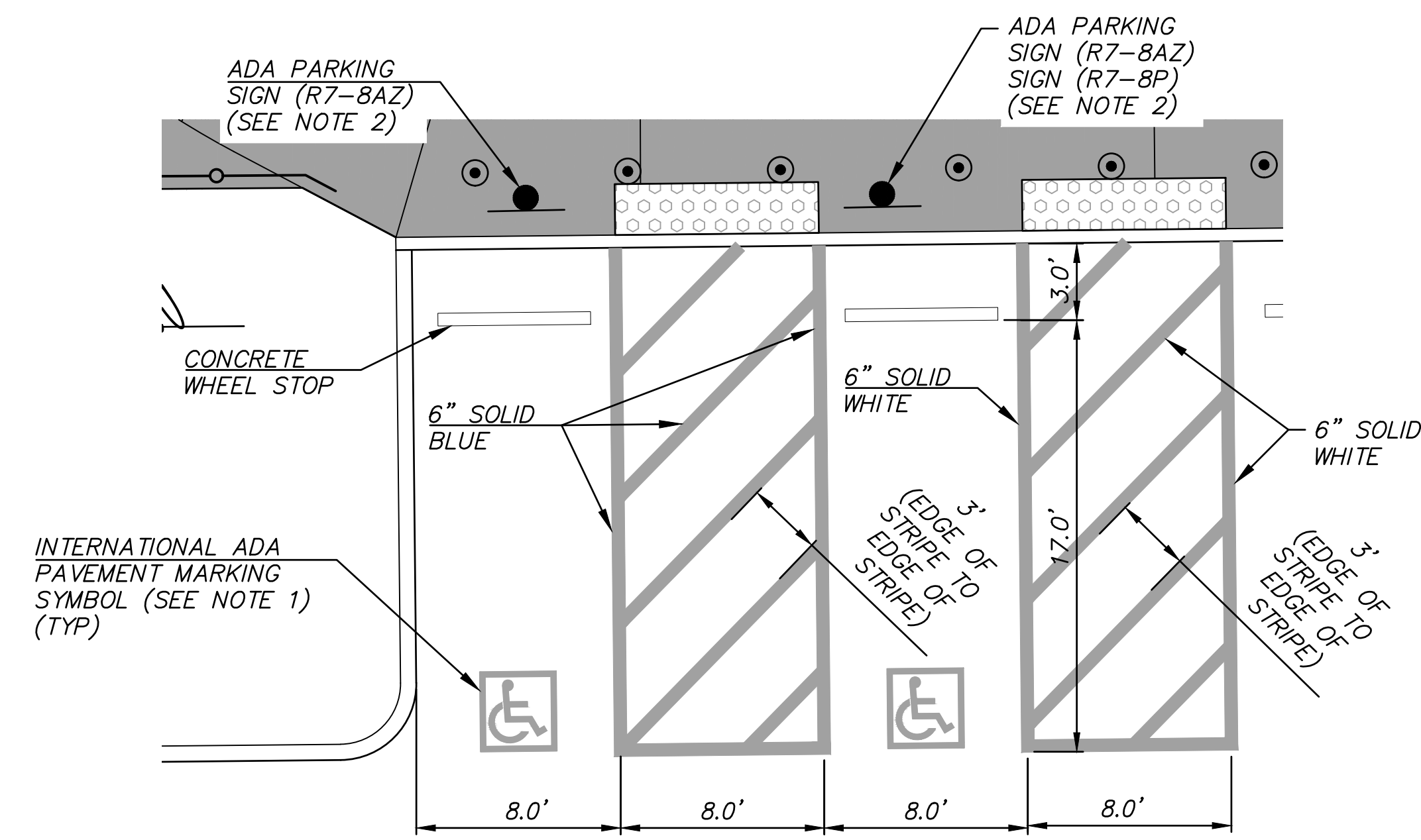




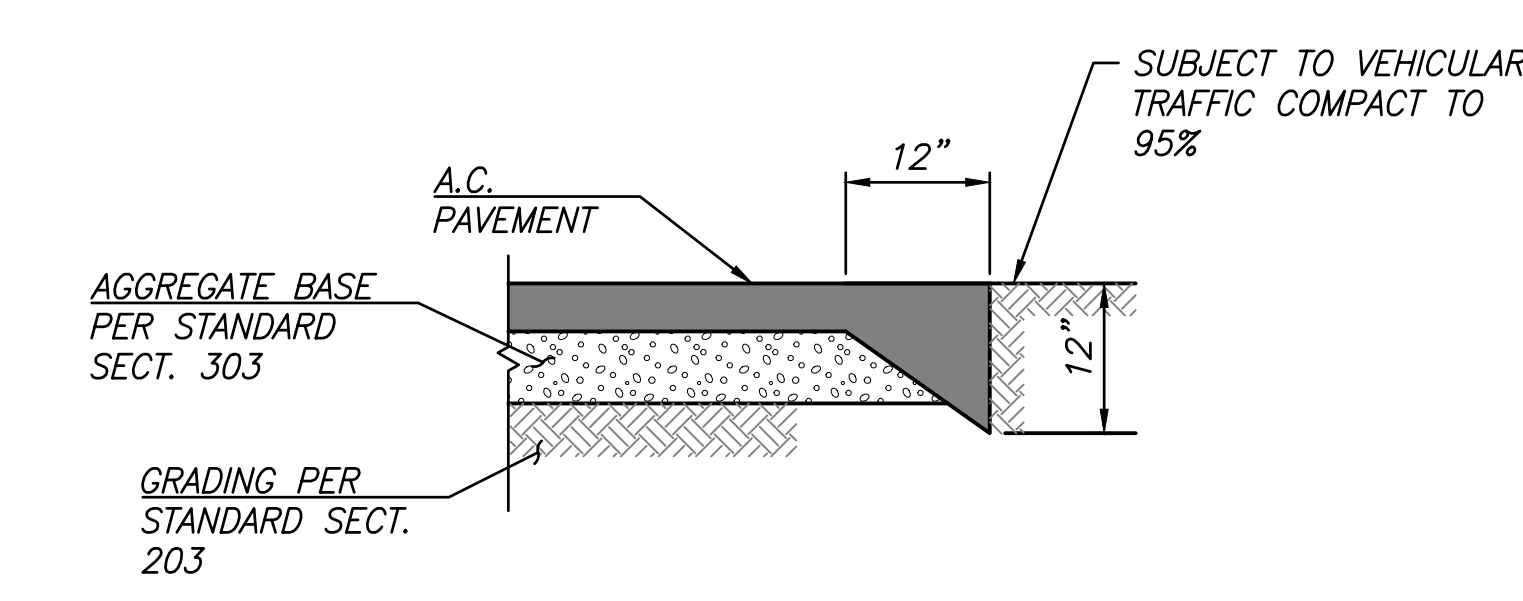
DETAIL A
HANDPLACED GROUTED RIP-RAP



DETAIL B
DEPRESSED CURB OUTLET



DETAIL C
PAINTED PAVEMENT LEGEND &
ACCESSIBLE SIGN AND POST



DETAIL D
ASPHALT CONCRETE
THICKENED EDGE

GENERAL NOTES
1. THE 12" DEPRESSED CURB SHALL BE COMPLETED IN ACCORDANCE WITH PAG DTL. 212 UNLESS OTHERWISE NOTED.

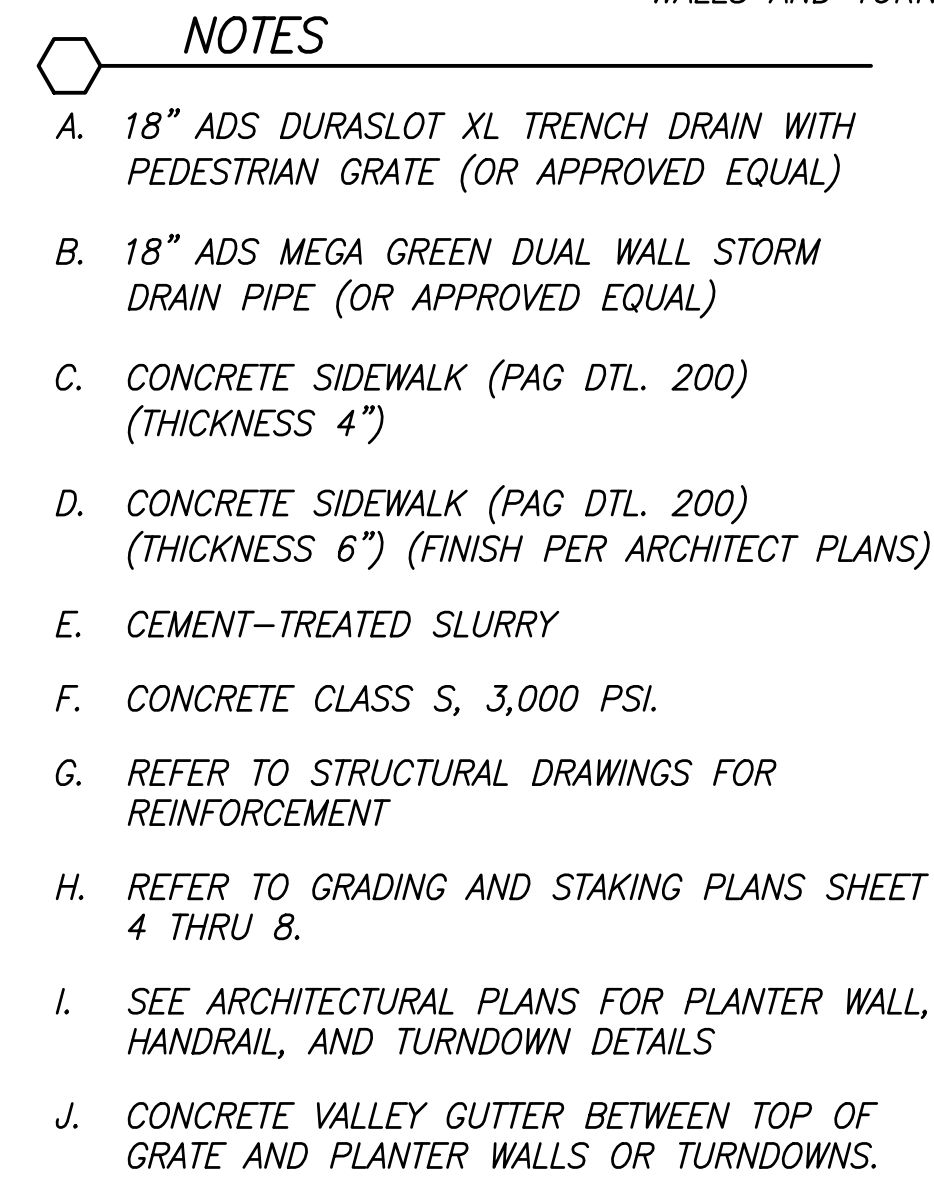
No.	Revision Description	Engineer	Date

SOLIS
Engineering Co.
239 N. Church Ave.
Tucson, Arizona 85747 (520) 207-0742

SITE DEVELOPMENT PLANS
PASCUA YAQUI TRIBE
MICRO-MARKET
DETAIL SHEET

Job Number	P001012023
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DETAIL SHEET	
Sheet	10 of 13





DETAIL F

CONCRETE WHEEL STOP

DETAIL G

GRouted RIPRAP CHANNEL

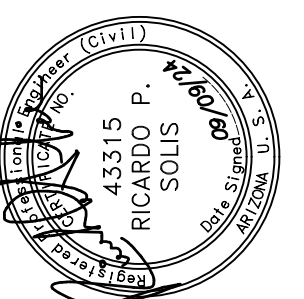
DETAIL H

DUMPED RIPRAP CHANNEL

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**SITE DEVELOPMENT PLANS
PASCUA YAQUI TRIBE
MICRO-MARKET
DETAIL SHEET**



Sheet Description
DT2

DETAIL SHEET

Sheet **11** of **13**



Sheet Description
DT3

DETAIL SHEET

Sheet **12** of **13**

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**SITE DEVELOPMENT PLANS
PASCUA YAQUI TRIBE
MICRO-MARKET
DETAIL SHEET**

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 REVISIONS: 010160 010160 010161
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[illegible]

- $\langle \cdot \rangle$

Chemical structure of 1,2-dichloroethane (DCE): ClCCl

- 1

- Contact Arizona 811 at least two full working days before you begin excavation.
- 
ARIZONA811
BEFORE YOU DIG, INC.
- Call 811 or click Arizona811.com



Job Number	P001012023
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Appr.	RPS
Date	09-09-24

Sheet Description

UT1

UTILITY PLAN SHEET

Sheet	13	of	13
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GENERAL LANDSCAPE NOTES:

1. THE PYT HEALTH DIRECTOR, OR HIS REPRESENTATIVE, RESERVES THE RIGHT TO REFUSE ANY PLANT HE DEEMS UNACCEPTABLE.

2. FOR CLARIFICATION OF DISCREPANCIES BETWEEN THE DRAWINGS AND THE SITE, IT SHOULD BE BROUGHT TO ATTENTION OF THE ARCHITECT PRIOR TO BEGINNING WORK.

3. THE ARCHITECT IS TO APPROVE ANY AND ALL SUBSTITUTIONS.

4. THE PLANT LIST IS PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE PLANS TAKE PRECEDENCE.

5. DOUBLE STAKE ALL 15 GALLON AND 24" BOX TREES AS REQUIRED.
6. EXPOSED SOIL IN PLANTERS SHALL BE RAKED AND FREE FROM ROCKS, ROOTS, WEEDS, ETC.

7. FINISHED GRADE IN GROUND COVER AND DG AREAS SHALL BE 6" BELOW ADJACENT HEADER BOARD, PAVING, CURBING, ETC.

8. PLANTS SHALL BE QUALITY MATERIAL HAVING A GROWTH HABIT THAT IS NORMAL FOR THE SPECIES AND BE SOUND, VIGOROUS, HEALTHY, AND FREE FROM INSECTS & INJURY.

9. DG SHALL EXTEND UNDER SHRUBS UNLESS NOTE OTHERWISE.

10. AFTER ALL WORK IS COMPLETED, THE CONTRACTOR SHALL REMOVE ALL MATERIALS NOT INCORPORATED IN THE SCOPE OF WORK FROM THE JOB SITE.

11. GRADING SHALL INCLUDE ALL EXCAVATION, SETTLEMENT, HANDLING, IMPORT, DISTRIBUTION, TRANSPORTATION, AND DISPOSAL NECESSARY TO BRING GROUND TO FINISH GRADE.

12. ALL EARTHWORK IS TO BE DONE SO THAT ALL WATER DRAINS AWAY FROM THE STRUCTURES.

13. ALL UNDERGROUND CONDUITS AND UTILITIES ARE TO BE LOCATED BEFORE DIGGING. CALL ARIZONA BLUESTAKE AT 811.

14. ALL PAINT MATERIAL TO GUARANTEED FOR A PERIOD OF EIGHTEEN (18) MONTHS AFTER FINAL ACCEPTANCE.
15. BACKFILL PLANTING SOIL FOR ALL NATIVE SPECIES, CACTI AND SUCCULENTS TO BE EXISTING NATIVE SOIL. A PLANTING MIX OF 1/3 MULCH, 2/3 NATIVE SOIL MIXED THOROUGHLY IS TO BE USED AS PLANT BACKFILL FOR NON-NATIVE OR EXOTIC SPECIES.

16. IN THE EVENT OF MAJOR DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.

17. TEST DRAINAGE OF PLANT BEDS AND PITS BY FILLING WITH WATER. CONDITIONS PERMITTING RETENTION OF WATER IN LOCATIONS FOR MORE THAN TWENTY-FOUR (24) HOURS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ANY PLANTING.

(NOTES CONTINUED BELOW)

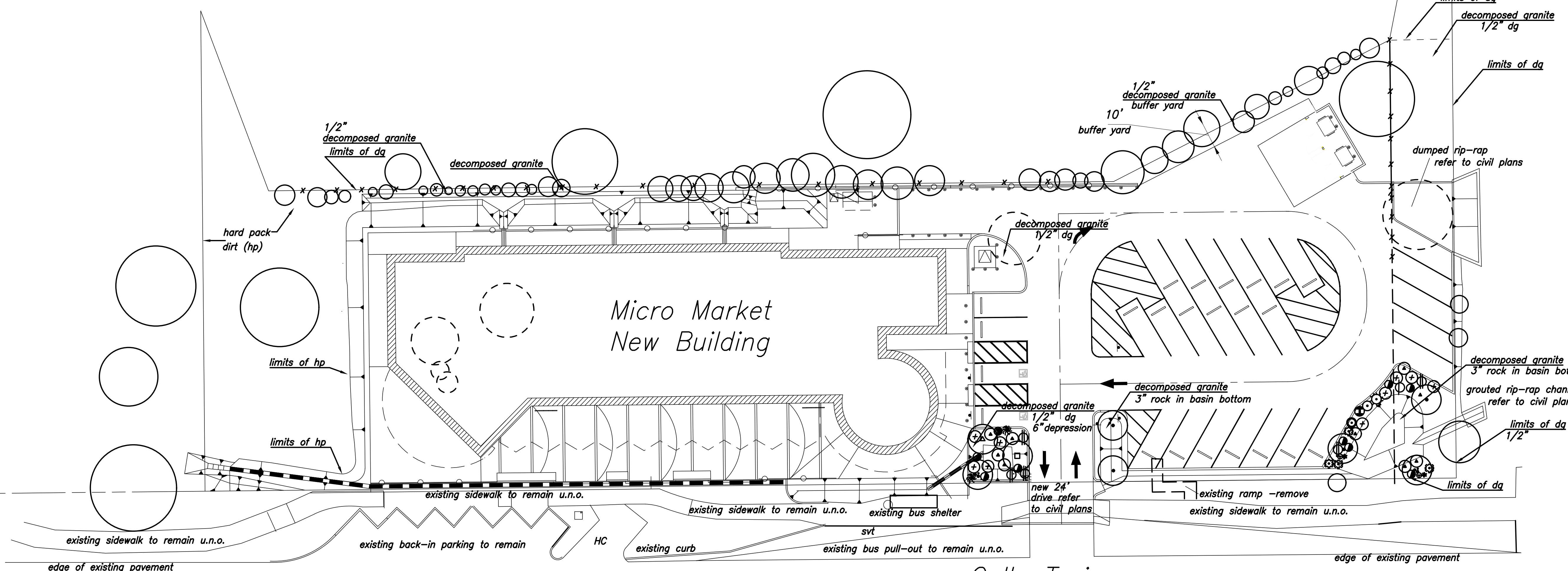
LANDSCAPE LEGEND

TREES	SIZE	QUANTITY
olneya tesoa	standard	—
ironwood	48" box	—
prosopis velutina	speciman	1
native mesquite	36" box	—
parkinsinia microphylla	standard	2
foothills paloverde	36" box	—
parkinsona praecox	"	1
palo brea	"	—
chilopsis linearis	multi	—
desert willow	24" box	—
prosopis glandulosa v.t.	standard	2
west honey mesquite	36" box	—

SHRUBS/ACCENTS	SIZE	QUANTITY
larrea tridentata	—	—
creosote bush	—	—
pervskia atriplicifolia	—	—
russian sage	—	—
buddleja marrubifolia	—	9
wooly butterfly bush	—	—
calliandra eriophylla	—	9
fairy duster	—	—
encelia farinosa	—	2
brittlebush	—	—
salvia clevelandia	—	9
cleveland sage	—	—
muhlenbergia capillaris	—	6
pink mulhy	—	—
oenothera berlandieri	—	2
mexican evening primrose	—	—
penstemon pseudospectabilis	—	4
arizona penstemon	—	—
penstemon parryi	—	1
parry's penstemon	—	—

CACTI	QUANTITY
carnegiea gigantea	1
saguaro	—
fourquleria splendens	—
octolillo	—
agave desmettiana	2
variegated smooth agave	—
ferocactus wislizeni	—
fishhook barrel catus	—

GROUND COVER/HARDSCAPE MATERIAL
dg decomposed granite - 1/2" screened - apache gold or approved equal. 3" on planting areas as noted



Landscape Plan

1"=20' contact bluestake prior to start of work

NOTE: NO IRRIGATION PLANS
PASSIVE IRRIGATION PROVIDED
WITH LANDSCAPE AREAS

Plan Sheet Index

L1.0 LANDSCAPE PLAN
L2.0 DETAILS

REVISION	date	DO NOT USE SCALED DIMENSIONS, USE WRITTEN DIMENSIONS OR WHERE NO DIMENSION IS PROVIDED, CONSULT ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
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SITE DEVELOPMENT PLANS
PASCUA YAQUI TRIBE
CHEPA'S MICRO-MARKET
LANDSCAPE DETAILS
L1.0

TREES			
SYMBOL	BOTANICAL NAME COMMON NAME	QUANTITY	SIZE
	CARCIDIUM 'DESERT MUSEUM' DESERT MUSEUM PALO VERDE	4	15 GAL
	ACACIA SALICINA WILLOW ARACIA	4	15 GAL
SHRUBS/ACCENTS/GROUNDCOVER			
SYMBOL	BOTANICAL NAME COMMON NAME	QUANTITY	SIZE
	BUDDLEIA MARRUBIFOLIA BUTTERFLY BUSH	3	5 GAL
	DASYLIUM WHEELERI DESERT SPOON	1	5 GAL
	HESPERALOE PARVIFLORA RED YUCCA	4	5 GAL
	LEUCOPHYLLUM CANDIDUM THUNDER CLOUD SAGE	12	5 GAL
	DALEA GREGGII TRAILING DALEA	9	1 GAL
SR	SCREENED ROCK DESERT ROSE – 2" MIN. THICKNESS		

PLANT NOTES:

- ALL PLANT QUANTITIES TO BE VERIFIED PRIOR TO PROCUREMENT. QUANTITIES SHOWN ON LEGEND ARE FOR REFERENCE ONLY IN CASE OF DISCREPANCY, QUANTITIES SHOWN ON PLANS WILL PREVAIL.
- SCREENED ROCK SHALL BE PLACE IN ALL PLANTING AREAS (NON–PAVED AREAS) TO REDUCE DUST POLLUTION.
- CONTRACTOR SHALL PROTECT PLANTS TO BE PRESERVED–IN–PLACE DURING CONSTRUCTION (IF ANY). ALL AREAS TO REMAIN UNDISTURBED AND PLANTS TO BE DESIGNATED TO BE PRESERVED–IN–PLACE SHALL BE FENCED OFF. FENCING WILL REMAIN IN PLACE FOR THE DURATION OF THE CONSTRUCTION ACTIVITIES.
- ALL LANDSCAPING AND IRRIGATION SYSTEMS ON THE SITE OR WITHIN THE ABUTTING RIGHT–OF–WAY SHALL BE MAINTAINED AS SHOWN ON THE APPROVED PLANS. THE PROPERTY OWNER IS RESPONSIBLE FOR PROPER MAINTENANCE TO ACHIEVE PERMANENT, SAFE, AND SUCCESSFUL LANDSCAPING.
- PER C.O.T. DEVELOPMENT STANDARDS, NO STRUCTURES OR VEGETATION BETWEEN 30" AND 72" IN HEIGHT SHALL BE PLACED WITHIN SIGHT VISIBILITY TRIANGLES. ANY EXISTING TREES WITHIN THE EXISTING OR PROPOSED SIGHT VISIBILITY TRIANGLES SHALL BE CHECKED AND TRIMMED TO ASSURE THAT THEY ARE CLEAR OF LEAVES OR BRANCHES TO A HEIGHT OF AT LEAST SIX FEET ABOVE GRADE. THE LOCATION OF TREES WITHIN THE EXISTING AND FUTURE SIGHT VISIBILITY TRIANGLES MAY BE RESTRICTED OR MODIFIED AS DETERMINED BY THE C.O.T. INSPECTOR IN ORDER TO PRESERVE VISIBILITY.
- REFER TO C.O.T. LANDSCAPE CODE REQUIREMENTS TABLE, THIS SHEET, FOR STREET BORDER REQUIREMENTS.
- BIKE RACK, TRASH SCREEN WALLS AND SIDEWALK DETAILS ARE SHOWN ON DP–1 (EXISTING) AND DP–2 (PROPOSED). RIP–RAP, IF REQUIRED, WILL BE SHOWN ON CIVIL DP.
- ALL LANDSCAPING AREAS SHALL BE DEPRESSED 6"–9" TO FACILITATE WATER HARVESTING.

MAINTENANCE SCHEDULE:

FOR THE FIRST YEAR:

- PLANTS NOT SURVIVING AFTER 30 DAYS SHALL BE REPLACED WITH EQUIVALENT SIZE AND SPECIES.
- PLANT MATERIAL SHALL ONLY BE PRUNED TO CONTROL SIZE SIZE AND BE ALLOWED TO GROW IN ITS NATURAL GROWTH PATTERN, NOT BALLED.
- INERT GROUNDCOVER SHALL BE REPLACED AS NEEDED DUE TO DISPLACEMENT OR EROSION.
- MONTHLY MAINTENANCE SHALL BE PERFORMED TO KEEP LANDSCAPED AREAS FREE OF TRASH, WEEDS, DEBRIS AND DEAD PLANT MATERIAL.

C.O.T. LANDSCAPE REQUIREMENTS:

10' STREET LANDSCAPE BORDER REQUIREMENTS

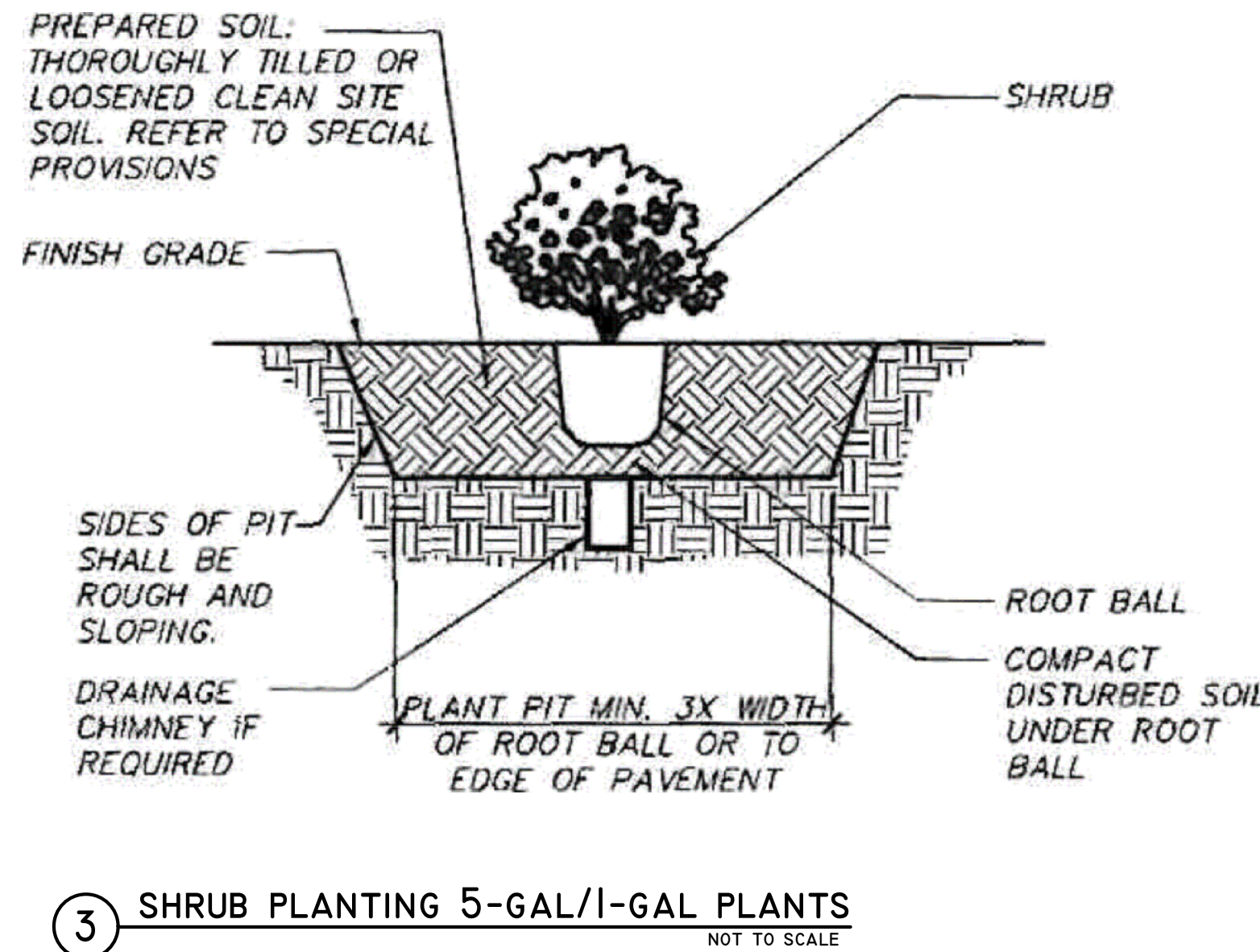
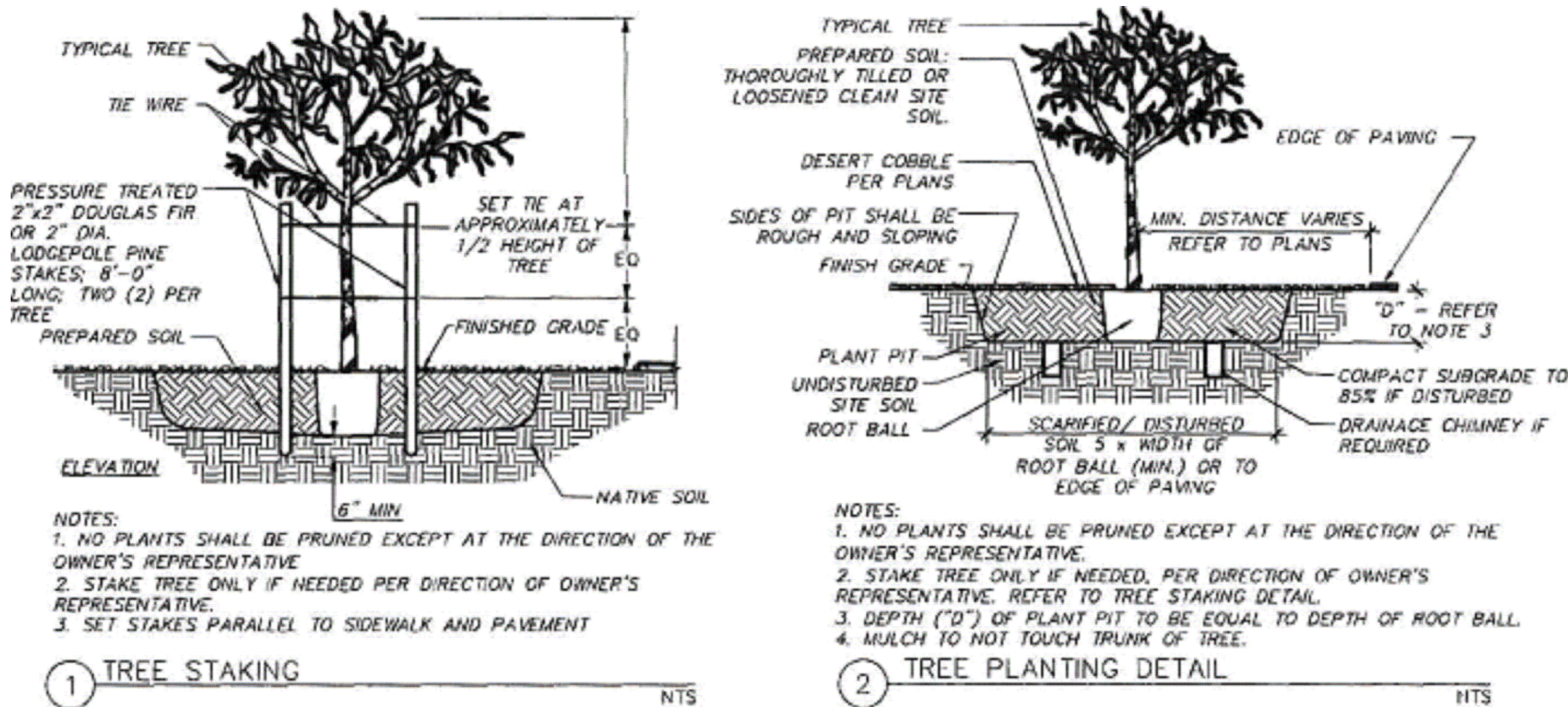
PLANTS REQUIRED ALONG SOUTH 6TH AVENUE	PLANTS PROVIDED
1 TREE PER 33' = 760 SF BORDER AREA	3 TREES
50% COVERAGE REQUIRED = 380 SF 30" SCREEN REQUIRED	380 SF PROVIDED

PLANTS REQUIRED ALONG NORTH, SOUTH & WEST BOUNDARY

NO INTERIOR BORDER REQUIRED PER SEC 3.7.2.4, C.3.b. OF THE CITY OF TUCSON (C.O.T.) LAND USE CODE.

PLANTS REQUIRED ADJACENT TO PARKING AREAS

NUMBER OF PARKING SPACES: 26
REQUIRED NUMBER OF TREES: 7
PROVIDE NUMBER OF TREES: 7



REVISION	date	DO NOT USE SCALED DIMENSIONS. USE WRITTEN DIMENSIONS OR WHERE NO DIMENSION IS PROVIDED, CONSULT ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
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LEGAL DESCRIPTION:
PASCUA YAQUI HOUSING AZ 40-I LOT 50 BLK 40
OF SECTION 24, T.15S, R.1E., CITY OF TUCSON, PIMA COUNTY, ARIZONA
ADDRESS: 5010 W CALLE TORIM
85757

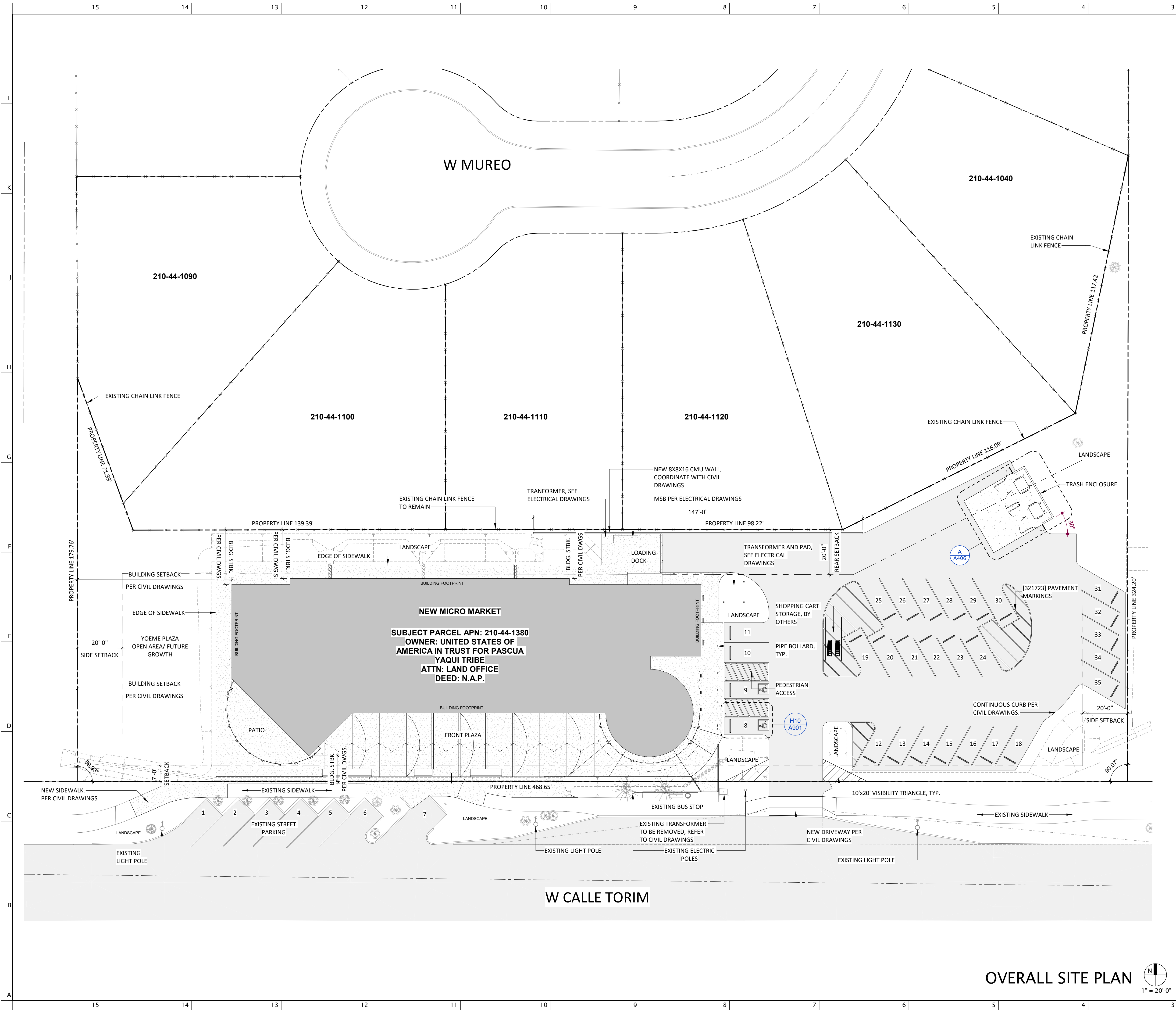
PYT MICRO MARKET
5010 W CALLE TORIM
TUCSON, AZ 85757

EXPIRES 03/31/2026

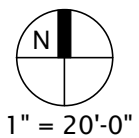


COMMERCIAL
NEW

L2.0



OVERALL SITE PLAN



GENERAL INFORMATION

PROJECT TITLE: CHEPA'S MICRO-MARKET
OWNER: PASCUA YAQUI TRIBE
ARCHITECT: MERGE ARCHITECTURAL GROUP, LLC
CONTACT: CARLOS MURRIETA
ADDRESS: 600 N 4TH ST, SUITE 112
PHONE: (602) 635 1581
EMAIL: cam@mergeag.com

PROJECT ADDRESS: 5010 W CALLE TORIM, TUCSON, AZ 85757
PARCEL NUMBERS: 210 - 44 - 1380

PROPERTY AREA: 1.35 AC.
EXISTING ZONING: RH
LOT SETBACKS USING RH (RURAL HOMESTEAD ZONE):
FRONT: 50' (SOUTH)
SIDES: 20' (EAST AND WEST)
REAR: 50' (NORTH)
PROPOSED SETBACKS USING RH (RURAL HOMESTEAD ZONE):
FRONT: 7' (SOUTH)
SIDES: 20' (EAST AND WEST)
REAR: 20' (NORTH)

HEIGHT LIMITATIONS:
MAX. BUILDING HEIGHT: 34'-0", 2 STORIES
PROPOSED BUILDING HEIGHT: 25'-0", 1 STORY
FLOOR AREA:
BUILDING FOOTPRINT: 12,920 SF
LIVABLE AREA: 12,400 SF
COVERED AREA: 14,815 SF
LANDSCAPE AREA:
TOTAL LANDSCAPE AREA IN THE PROPERTY: 14,299.81 SF

PARKING CALCULATIONS

PARKING REQUIRED (PER PIMA COUNTY ZONING):
USE: COMMERCIAL
1.0 SPACE FOR 300 SF
12,400 / 300 = 41.33 = 42 PARKING SPACES
PARKING PROVIDED:
34 PARKING SPACES, INCLUDING 3 ADA.

GENERAL SHEET NOTES

- COORDINATE ALL SPOT ELEVATIONS, SLOPES AND DIMENSIONS WITH CIVIL/LANDSCAPE/STRUCTURAL DRAWINGS. INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCY.
- CONTRACTOR TO ENSURE THAT AN ACCESSIBLE PATH CONNECTS THE ADA PARKING STALLS TO THE MAIN ENTRANCE.
- CONTRACTOR TO ENSURE POSITIVE DRAINAGE ACROSS ALL PAVED SURFACES.

SITE GENERAL NOTES

- PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING OF 5% FOR A DISTANCE OF 10 FEET U. N.O.
- FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FT VERTICAL IN 3 FT HORIZONTAL U. N.O.
- TEMPORARY PEDESTRIAN PROTECTION SHALL BE PROVIDED WHERE REQUIRED BY BUILDING USER'S TRAFFIC. COORDINATE WITH OWNER.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BELOW GRADE AND RELATED SERVICES CONNECTIONS WITH THE RESPECTIVE UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE THE REMOVAL, ABANDONMENT, AND/OR RELOCATION OF EXISTING UTILITIES ABOVE OR BELOW GRADE WITH THE RESPECTIVE UTILITY COMPANIES.
- SEE LANDSCAPE DRAWINGS FOR PLANTING & GROUND MATERIALS TO BE INSTALLED.
- DEVELOPMENT AND USE OF THIS SITE WILL CONFORM WITH ALL APPLICABLE CODES & ORDINANCES.
- ALL NEW UTILITIES WILL BE PLACED UNDERGROUND U. N.O. SEE CIVIL DRAWINGS.
- ALL ROOFTOP GROUND EQUIPMENT, AND SATELLITE DISHES SHALL BE SCREENED TO THE HEIGHT OF THE TALLEST EQUIPMENT.
- LOCATE IRRIGATION CONTROL BOXES ON LANDSCAPE DRAWINGS & SET TOP LEVEL AT SIDEWALK LOCATIONS. PROVIDE CONCRETE BASE AND CASE FOR PROTECTION AS INDICATED BY ARCHITECT.
- REFER TO PLUMBING DRAWINGS AND EXTERIOR ELEVATIONS TO IDENTIFY LOCATIONS OF OVERFLOW AND ROOF DRAIN LEADER DISCHARGE AREAS AND PROVIDE SPLASHBLOCK OR RIP-RAP PER SITE AND CIVIL DRAWINGS.
- PROVIDE TRENCH DRAINS AT ANY LOCATION WHERE STORMWATER CROSSES ANY PEDESTRIAN SIDEWALK. SEE SITE DETAILS FOR TYPICAL DETAIL.
- MINIMUM SLOPE AT SIDEWALKS FOR WATER DRAINAGE PURPOSES TO NO LESS THAN 1.0% AND NOT TO EXCEED 2%. SEE CIVIL DRAWINGS.
- MINIMUM SLOPE AT SIDEWALKS FOR WATER DRAINAGE PURPOSES TO NO LESS THAN 1.0% AND NOT TO EXCEED 2%. SEE CIVIL DRAWINGS.
- SIDEWALK AND SLAB CONTROL JOINTS NOT SHOWN FOR DRAWING CLARITY; CONTROL JOINTS TO BE PROVIDED AT 5'-0" O.C. MAXIMUM OR AT EQUAL SPACE DISTRIBUTED ALONG THE LENGTH OF THE SURFACE. SEE ALSO SITE DETAILS.
- ALL CONCRETE AT SIDEWALKS, EQUIPMENT PADS, RAMPS AND STAIRS TO BE PROVIDED WITH FIBER REINFORCING AS FOLLOWS: SYNTHETIC MICRO-FIBER MONOFILAMENT POLYPROPYLENE MICRO-FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE, COMPLYING WITH ASTM C 1118/C 1116M, TYPE III, 1/2 TO 1 1/2 IN. LONG
- THIS PROJECT IS LOCATED IN PASCUA YAQUI IN PIMA COUNTY, AZ AND HAS BEEN DESIGNATED AS HAVING AN ASSURED WATER SUPPLY.
- STRUCTURES AND LANDSCAPING WITHIN A TRIANGLE MEASURED BACK 10' FROM PROPERTY LINE ON EACH SIDE OF THE DRIVEWAYS ENTRANCES WILL BE MAINTAINED AT A MAXIMUM HEIGHT OF 3'. COORDINATE FENCING AS REQUIRED TO MEET THIS REQUIREMENT.
- ALL SERVICES AREAS SHALL BE SCREENED TO CONCEAL TRASH CONTAINERS, LOADING DOCKS, TRANSFORMERS, BACKFLOW PREVENTER AND OTHER MECHANICAL OR ELECTRICAL EQUIPMENT FROM EYE LEVEL ADJACENT TO ALL PUBLIC STREETS. SEE DETAILS ON SHEET A901 FOR SCREEN DESIGN.

MERGE ARCHITECTURAL GROUP
600 N 4th ST, SUITE 112
PHOENIX ARIZONA 85004
P (602) 635 1581
F (602) 635 1581
cam@mergeAG.com
cdc@mergeAG.com

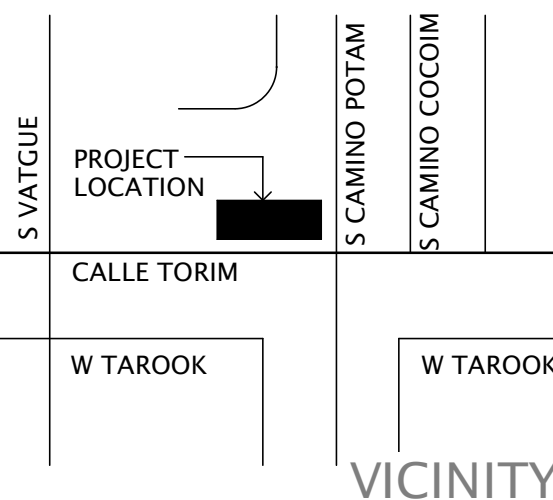


Pascua Yaqui Tribe

Micro Market

7490 S CAMINO DE OESTE
TUCSON, AZ 85757

5010 W CALLE TORIM
TUCSON, AZ 85757



VICINITY

REVISION	DESCRIPTION	DATE
NUMBER		

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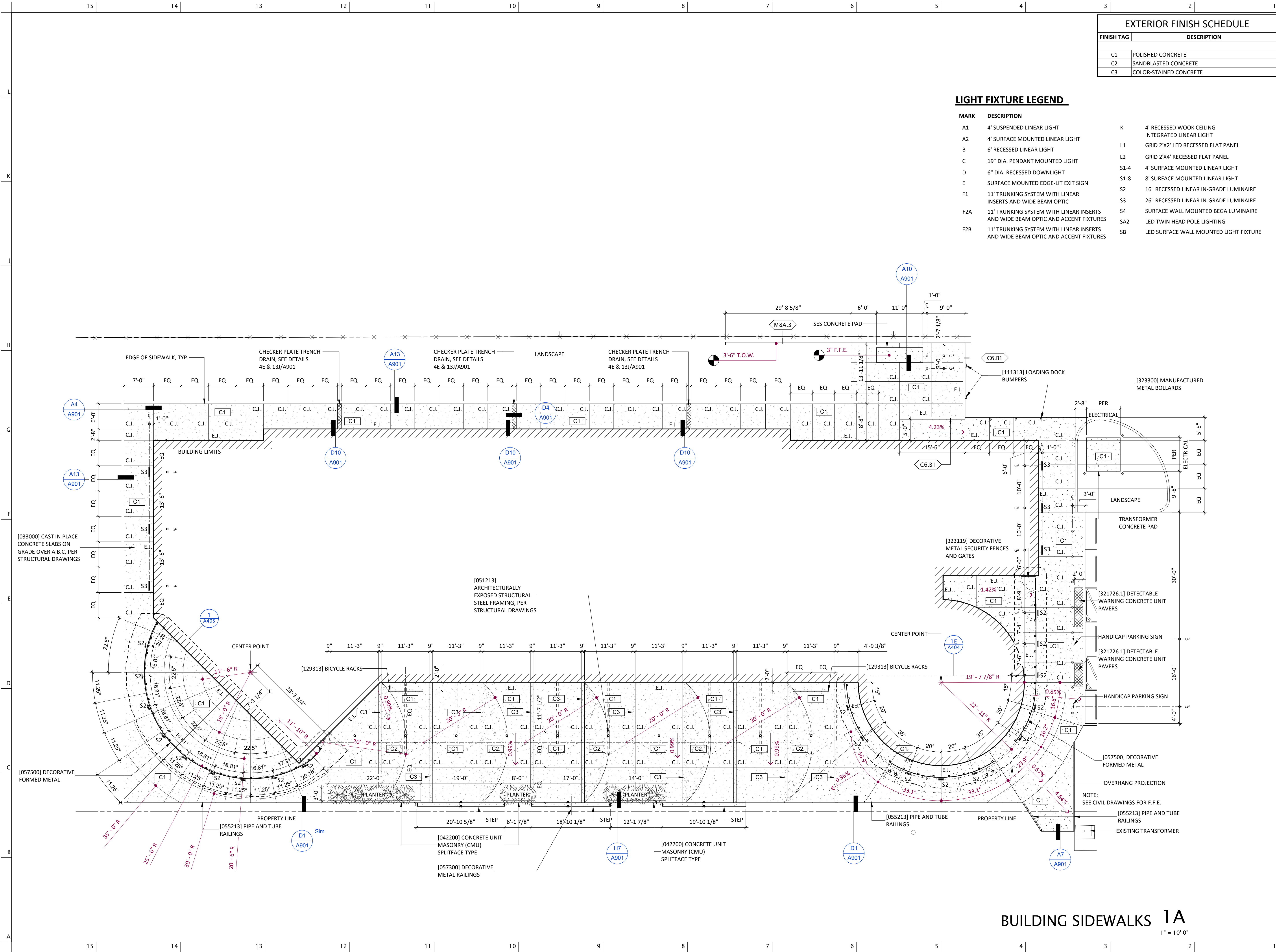
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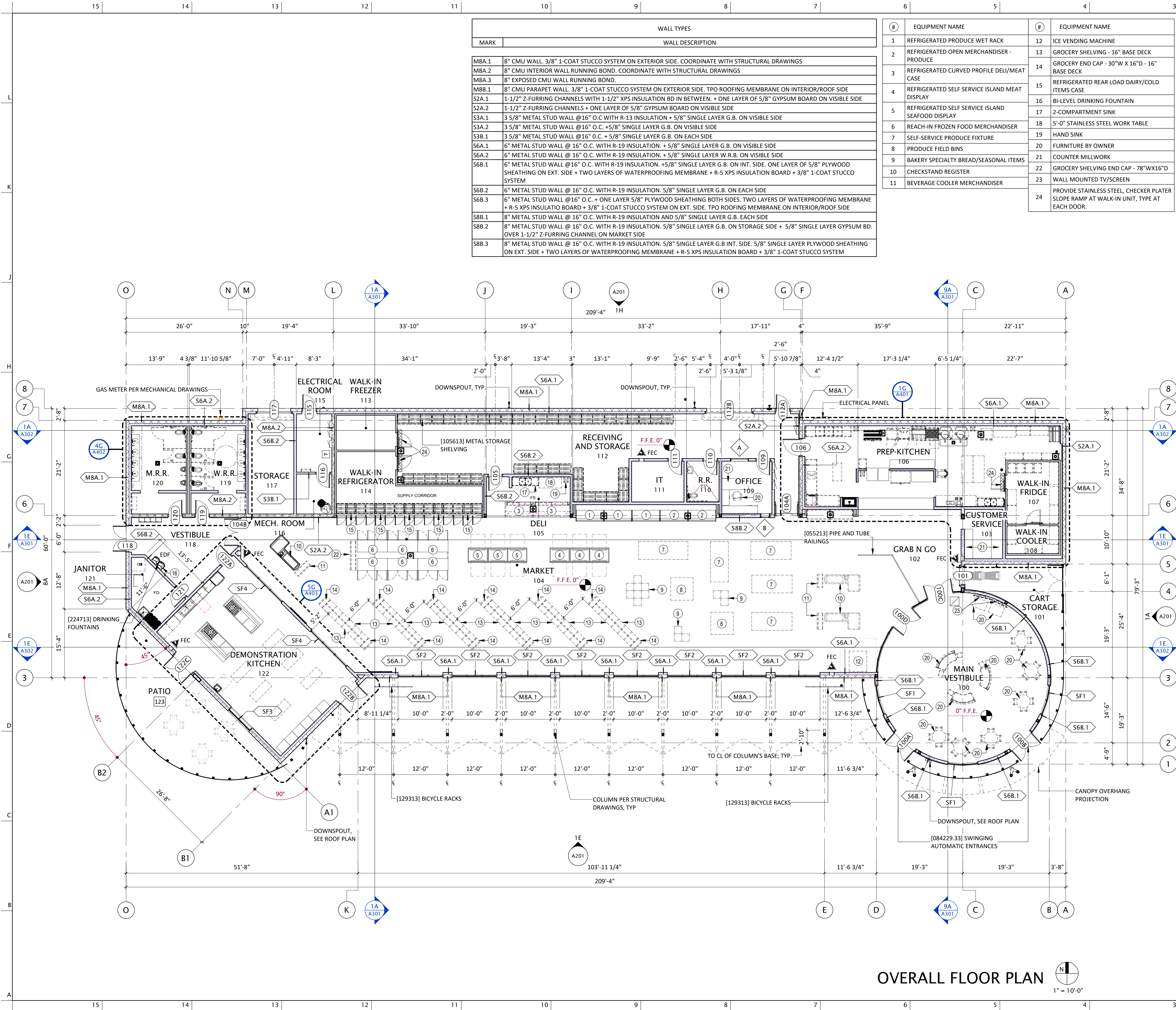
SHEET TITLE

OVERALL SITE PLAN

DATE 01.20.2025
SHEET

A001





FLOOR PLAN GENERAL NOTES

- DIMENSIONS SHOWN ON FLOOR PLANS, SECTIONS, ELEVATIONS AND DETAILS ARE TO FACE OF STUD, MASONRY, CONCRETE, OR GRIDLINES, U.N.O.
- INSULATION NOT SHOWN IN FLOOR PLANS FOR DRAWING CLARITY. REFER TO WALL TYPE SCHEDULE, WALL TYPE DETAILS AND SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- REFER TO CODE SHEETS FOR FIRE RATING REQUIREMENTS BETWEEN THE DIFFERENT SPACES AT WALLS.
- COORDINATE WITH CIVIL DRAWINGS AND/OR STRUCTURAL DRAWINGS FOR FINISH FLOOR ELEVATION.
- REFER TO ROOM FINISH SCHEDULE FOR FURTHER DETAIL ON FLOOR FINISHES.
- ALL DOORS SET WITH HINGE SIDE 4" FROM BACK OF DOOR FRAME TO FACE OF ADJACENT WALL UNLESS DIMENSIONED OTHERWISE.
- DOOR THRESHOLDS NOT SHOWN FOR DRAWING CLARITY. SEE ENLARGED FLOOR PLANS AND ROOM FINISH SCHEDULE FOR LOCATIONS. IF NOT LISTED PROVIDE DOOR THRESHOLD AT ANY ROOM WITH FLOOR DRAIN.
- COORDINATE ALL FLOOR PENETRATIONS WITH RESPECTIVE TRADES. ALL FLOOR PENETRATIONS REQUIRE ONE-HOUR FIRE RESISTIVE ASSEMBLY.

WALL GENERAL NOTES

- FOR TYPICAL WALL STUD AND GAUGE, SEE MARK ON PLANS, STRUCTURAL NOTES AND WALL TYPE SCHEDULE.
- FOR INTERIOR WALL SUBSTRATES REFER TO WALL TYPE SCHEDULE.
- ALL STUD WALLS TO RECEIVE TWO BEADS OF SEALANT AT THE BOTTOM AND TOP TRACK, PROVIDE ADDITIONAL BEAD OF SEALANT AT BOTTOM OF ANY DRYWALL SUBSTRATE SHEATHING, U.N.O.
- FOR INTERIOR WALL HEIGHT INFORMATION SEE CEILING PLANS AND SECTIONS.
- ALL UNGROUTED CMU CELLS IN CONTACT WITH THE EXTERIOR ENVIRONMENT TO RECEIVE FOAMED IN PLACE INSULATION.
- INSULATION NOT SHOW FOR DRAWING CLARITY. ALL STUDS TO RECEIVE BATT INSULATION U.N.O. AS FOLLOWS: 6" EXTERIOR STUDS: R-19; 6" INTERIOR STUDS: R-19; 3 5/8" INTERIOR STUDS: R-13; 2 1/2" INTERIOR STUDS: R-11; 1 5/8" INTERIOR STUDS: R-6.3 TYPE 701 BATT INSULATION; 1"Z CHANNELS INTERIOR: R-5 (RIGID INSULATION).
- PROVIDE ALUMINUM FACED INSULATION AT ALL WET AREAS, TOILET, KITCHEN, JANITOR, ETC.
- ALL INTERIOR EXPOSED CORNERS INSIDE CORRIDORS AND WATER DISPENSING AREAS TO RECEIVE CORNER GUARDS PER SPECIFICATION. SEE ALSO INTERIOR ELEVATIONS FOR ADDITIONAL LOCATIONS.
- PROVIDE ALL FIRE-RETARDANT BLOCKING AS REQUIRED FOR ALL TOILETS. ARCHITECTURAL MILLWORK, ACCESSORIES, ETC. LISTED ON DRAWINGS AS PART OF CONTRACT AND NOT IN CONTRACT (N.I.C.) PER SPECIFICATIONS.
- REFER TO ROOM FINISH SCHEDULE FOR FURTHER DETAIL ON WALL FINISHES.
- STUD SPACING PER STRUCTURAL
- PROVIDE ALL BLOCKING AS REQUIRED FOR ALL TOILETS. ARCHITECTURAL MILLWORK, ACCESSORIES, ETC. LISTED ON DRAWINGS AS PART OF CONTRACT AND NOT IN CONTRACT (N.I.C.)

PARTITION HEAD CONDITIONS

- PARTITIONS ARE TO EXTEND TO THE UNDERSIDE OF THE STRUCTURE ABOVE.
- METAL STUDS ARE TO EXTEND TO UNDERSIDE OF STRUCTURE ABOVE SHEATHING GYPSUM WALLBOARD IS TO TERMINATE 6" ABOVE HEIGHT ADJACENT TO CEILING LID.
- PARTITION TO TERMINATE 6" ABOVE HIGHEST ADJACENT CEILING DIAGONALLY BRACE TO STRUCTURE ABOVE.
- METAL STUDS TO EXTEND TO STRUCTURE ABOVE GYPSUM WALLBOARD ON ONE SIDE OF METAL STUDS TO EXTEND TO STRUCTURE ABOVE ON THE OTHER SIDE OF METAL STUDS GYPSUM WALLBOARD IS TO TERMINATE 6" ABOVE HIGHEST ADHACENT CEILING LID.

PROJECT DATA

GROSS BLDG. S.F.:	12,791 S.F.
SALES AREA S.F.:	4,728 S.F.
GROCERY:	
GROCERY SHELVING	144 L.F.
GROCERY SHELVING END CAP	30 L.F.
TOTAL L.F.	174 L.F.
FROZEN FOOD:	
REACH-IN DOOR CASES	16 DOORS
DAIRY/COLD ITEMS:	
MULTI-DECK CASE REAR FILL	32.5 L.F.
COLD BEVERAGES	9.5 L.F.
TOTAL L.F.	42 L.F.
PRODUCE:	
PRODUCE WET RACK	12 L.F.
PRODUCE PACKAGED	19 L.F.
SELF-SERVICE PRODUCE FIXTURE	94 L.F.
TOTAL L.F.	125 L.F.
SELF-SERVICE PRODUCE BIN	2 BINS
MEAT:	
SERVICE MEAT CASE	8 L.F.
SELF SERVICE MEAT CASE	27 L.F.
TOTAL L.F.	35 L.F.
SEAFOOD:	
SELF SERVICE SEAFOOD	27 L.F.
DELI:	
SERVICE DELI CASE	6 L.F.
BAKERY/SEASONAL ITEMS:	
BAKERY TABLES	14 TABLES



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PROJECT LOCATION	
CALLE TORIM	
S CAMINO POTAM	
S CAMINO COCOM	

W TAROOK

W TAROOK

VICINITY

REVISION	DESCRIPTION	DATE
NUMBER		

PROJECT NO. 23C-001

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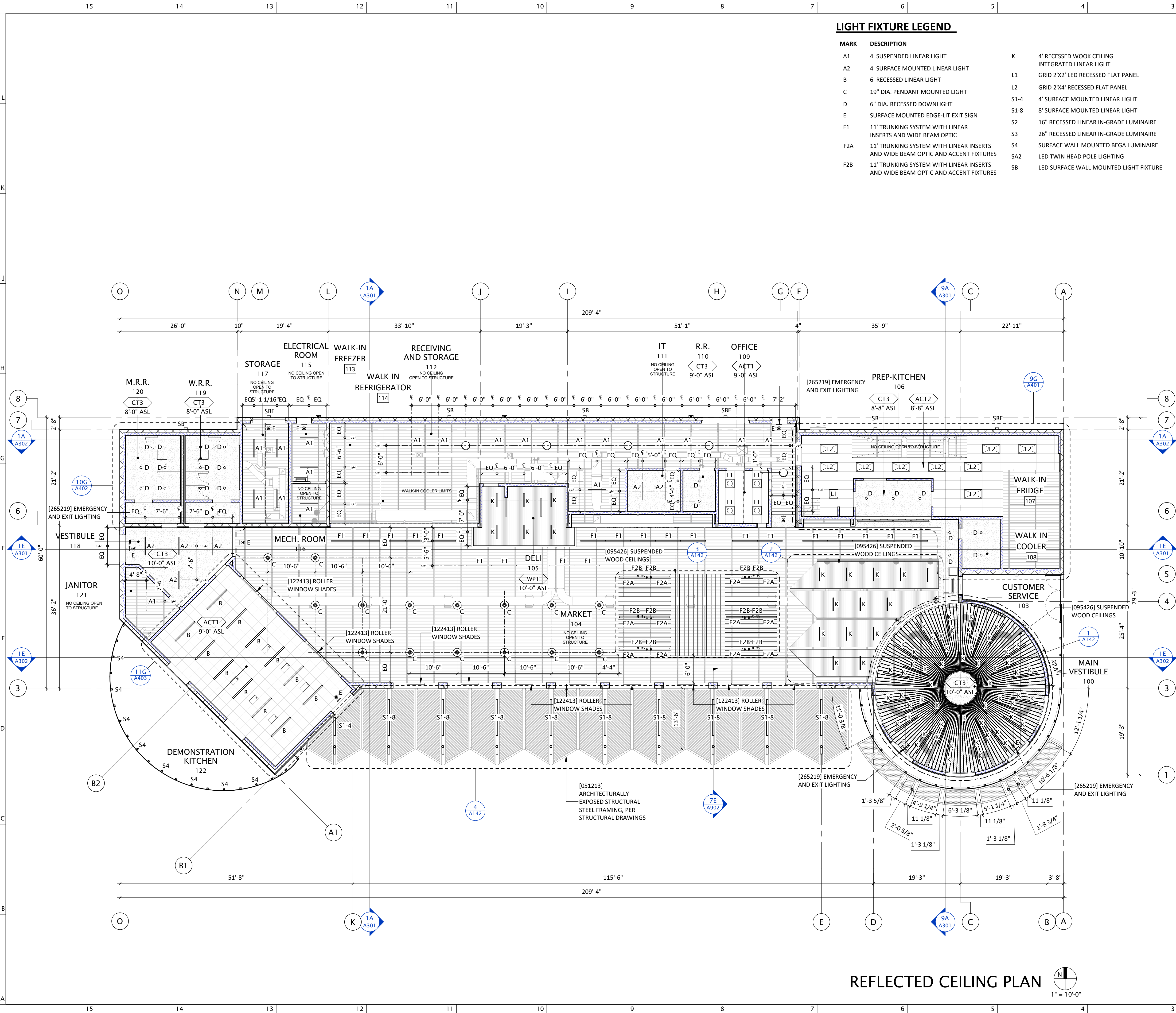
SHEET TITLE

FLOOR PLAN

DATE 01.20.2025

SHEET

A101



LIGHT FIXTURE LEGEND

MARK	DESCRIPTION		
A1	4' SUSPENDED LINEAR LIGHT	K	4' RECESSED WOOK CEILING INTEGRATED LINEAR LIGHT
A2	4' SURFACE MOUNTED LINEAR LIGHT	L1	GRID 2'X2' LED RECESSED FLAT PANEL
B	6' RECESSED LINEAR LIGHT	L2	GRID 2'X4' RECESSED FLAT PANEL
C	19" DIA. PENDANT MOUNTED LIGHT	S1-4	4' SURFACE MOUNTED LINEAR LIGHT
D	6" DIA. RECESSED DOWNLIGHT	S1-8	8' SURFACE MOUNTED LINEAR LIGHT
E	SURFACE MOUNTED EDGE-LIT EXIT SIGN	S2	16" RECESSED LINEAR IN-GRADE LUMINAIRE
F1	11' TRUNKING SYSTEM WITH LINEAR INSERTS AND WIDE BEAM OPTIC	S3	26" RECESSED LINEAR IN-GRADE LUMINAIRE
F2A	11' TRUNKING SYSTEM WITH LINEAR INSERTS AND WIDE BEAM OPTIC AND ACCENT FIXTURES	S4	SURFACE WALL MOUNTED BEGA LUMINAIRE
F2B	11' TRUNKING SYSTEM WITH LINEAR INSERTS AND WIDE BEAM OPTIC AND ACCENT FIXTURES	SA2	LED TWIN HEAD POLE LIGHTING
		SB	LED SURFACE WALL MOUNTED LIGHT FIXTURE

GENERAL CEILING NOTES

- ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")
- GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.
- SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.
- VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.
- LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY U.N.O.
- LIGHT FIXTURES ARE SHOWN ON THIS DRAWING FOR THE ARCHITECTURAL LOCATIONS AND GENERAL FIXTURE TYPE ONLY. SEE ELECTRICAL DRAWINGS FOR THE EXACT FIXTURE TYPE AND CIRCUITING.
- MECHANICAL REGISTERS ARE SHOWN ON THIS DRAWING FOR THE ARCHITECTURAL LOCATIONS ONLY. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SIZING, DISTRIBUTION, CONNECTIONS, AND ALL OTHER REQUIREMENTS.
- VERIFY MECHANICAL, ELECTRICAL AND SPRINKLER LOCATIONS. COORDINATE AND ADJUST AS REQUIRED.
- IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.
- CEILING SYSTEMS SHALL PROVIDE FOR LIGHTING FIXTURES AND AIR CONDITIONING DIFFUSERS. INDEPENDENT FRAMING AND ATTACHMENTS TO THE STRUCTURE SHALL BE ADEQUATE TO SUPPORT THE CEILING SYSTEM.
- WHERE DUCTWORK INTERFERES WITH NORMAL SUSPENSION. ATTACHMENT OF HANGERS OR FRAMING TO DUCTWORK PROHIBITED.
- COORDINATE EXACT LOCATION OF ALL CEILING ITEMS (DIFFUSERS, LIGHT FIXTURES, SPRINKLERS, ETC.) NOT DIMENSIONED ON THIS OR OTHER DRAWINGS IN FIELD WITH ARCHITECT.
- FOR SMOKE DETECTOR LOCATIONS IN CEILING SEE SPECIAL ELECTRICAL DRAWINGS AND SPECIAL SYSTEM DRAWINGS.
- FOR SPEAKER LOCATIONS IN CEILING SEE ELECTRICAL DRAWINGS.
- ALL GYPSUM BOARD OVER STUDS EXTENDING TO STRUCTURE WHERE NOT EXPOSED TO VIEW, NEED ONLY JOINTS TAPED, NO TEXTURE OR FINISH.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE ALL CEILING (INCLUDING, BUT NOT LIMITED TO: STRUCTURAL MEMBERS, MECHANICAL DUCTS AND INSTALLATION, CONDUITS, RACEWAYS, SPRINKLER SYSTEMS, AND ANY SPECIAL STRUCTURAL SUPPORTS REQUIRED) AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR INDICATED IN THE DRAWINGS AND THE FINISH SCHEDULE. (CEILING HEIGHT DIMENSIONS ARE TO THE FINISH SURFACE OF CEILING).
- FOR TYPICAL HANGER WIRE ATTACHMENT TO EXISTING STRUCTURE ABOVE REFER TO CEILING DETAILS AND SPECIFICATIONS.
- REFER TO CEILING DETAILS FOR ANY CONTROL JOINTS AT FURRING CHANNELS AS OCCURS.
- ACCESS PANELS SHALL BE PROVIDED & INSTALLED WHEREVER REQUIRED BY BUILDING CODE OR FOR THE PROPER OPERATION OR MAINTENANCE OF MECHANICAL OR ELECTRICAL EQUIPMENT, WHETHER OR NOT INDICATED ON DRAWINGS. CONTRACTOR SHALL COORDINATE SIZE, LOCATION AND TYPE OF ACCESS PANEL WITH OTHER CONTRACTORS WORK & RECEIVE APPROVAL OF THE ARCHITECT. NO ACCESS PANEL SHALL BE LOCATED, FRAMED OR INSTALLED WITHOUT THE EXPRESSED APPROVAL OF THE ARCHITECT.
- ALL DUCT PENETRATIONS THROUGH PARTITIONS & CEILING SHALL BE PROVIDED WITH NECESSARY FRAMES AND BRACING AROUND THE OPENING & SHALL BE PROVIDED WITH AUTOMATIC FIRE DAMPERS AND FIRE CAULKING (IF REQUIRED) BY MECHANICAL DRAWINGS OR FOR FIRE-RATED PENETRATIONS.
- ALL BATT INSULATION INSTALLED ON OPEN STRUCTURE SPACES, HORIZONTAL OR VERTICAL TO BE COVERED IN WITH MATTE BLACK ACOUSTIC OPEN WEAVE POLYESTER INSULATION WRAP, SO AS TO NOT ALLOW ANY LOOSE INSULATION FIBERS TO BECOME AIRBORNE. FABRIC SHALL HAVE A CLASS 'A' FLAMMABILITY RATING PER ASTM E-84, FLAME SPREAD INDEX OF 25 OR LESS.
- ALL EXPOSED FRAMING, JOIST, CONDUIT, ROOF DECK, INSULATION (W/ FABRIC COVER) AND ANY OTHER ITEMS IN THE CEILING CAVITY; TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
- ALL EXPOSED ROUND DUCTWORK AND ITS CONNECTORS FROM THE MECHANICAL UNIT/AIR HANDLER TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.

RCP LEGEND

SYMBOL	TAG	NAME
	ACT1	[09 51 23] LAY-IN 24"X24" ACOUSTICAL CEILING TILE
	ACT2	[09 51 23] LAY-IN 24"X48" ACOUSTICAL CEILING TILE
	CT3	[09 29 00] HARD-LID GYPSUM BOARD CEILING
	WP1	[09 54 26] WOODWORKS LINEAR TEGULAR PANELS



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5010 W CALLE TORM
TUCSON, AZ 85757



OWNER INFORMATION	PROJECT LOCATION
S VATGUE	S CAMINO POTAM
W TAROOK	W TAROOK

VICINITY

REVISION	DESCRIPTION	DATE
NUMBER		

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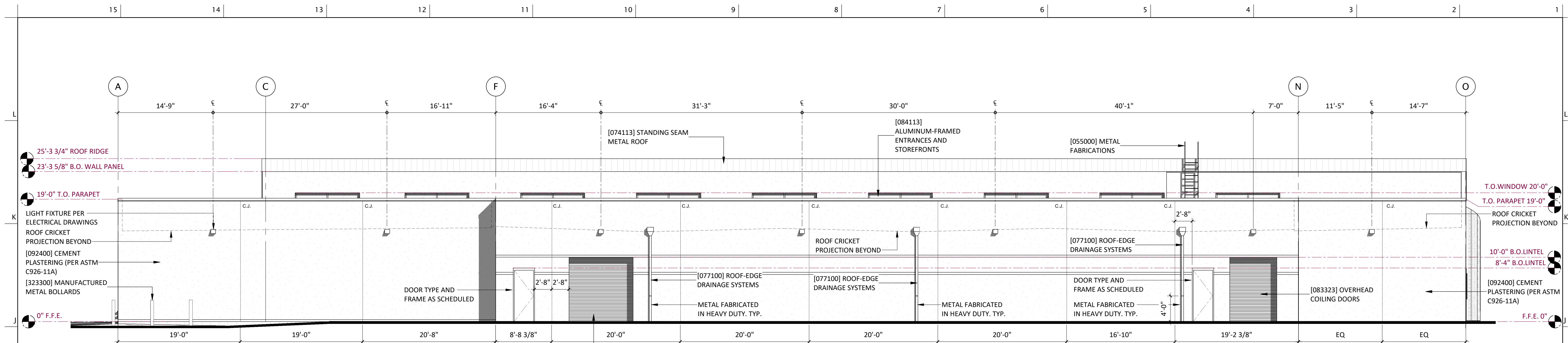
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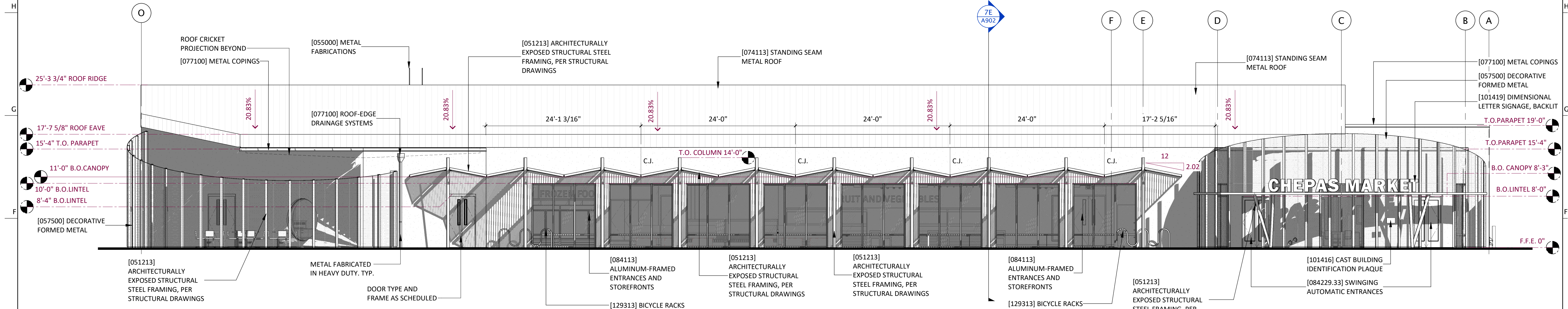
**REFLECTED
CEILING PLAN**

DATE 01.20.2025
SHEET

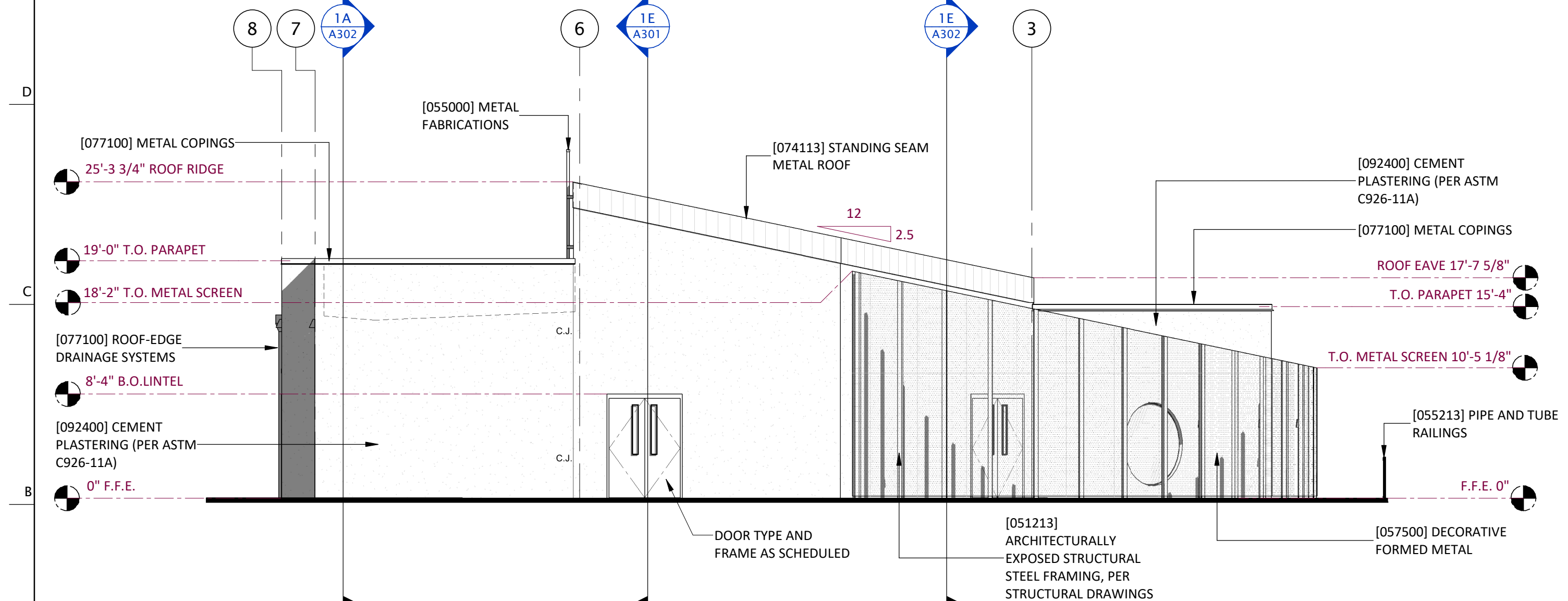
A141



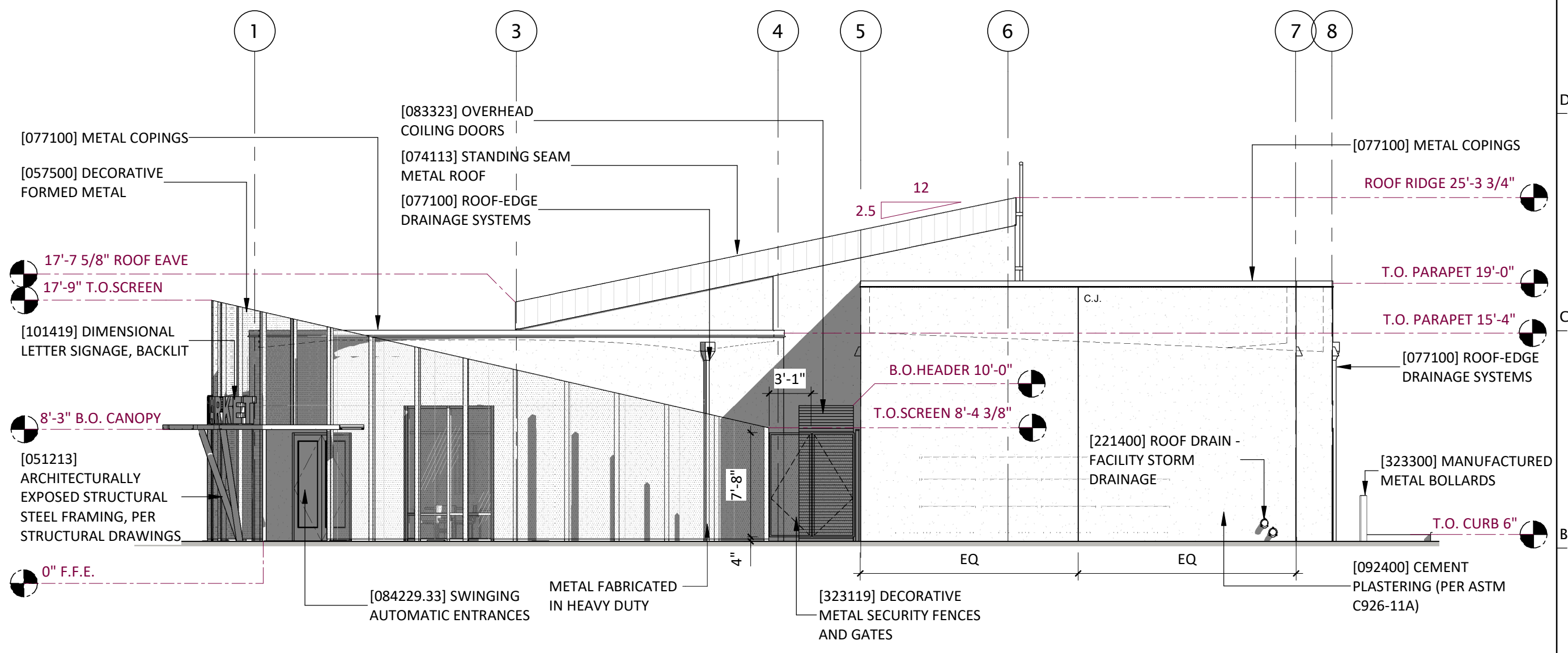
NORTH EXTERIOR ELEVATION 1H
1/8" = 1'-0"



SOUTH EXTERIOR ELEVATION 1E
1/8" = 1'-0"



WEST EXTERIOR ELEVATION 8A
1/8" = 1'-0"



EAST EXTERIOR ELEVATION 1A
1/8" = 1'-0"

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REGISTERED ARCHITECT
CERTIFICATE NO. 45961
CARLOS ANTONIO MURRIETA
STATE OF ARIZONA
EXPIRATION DATE 12/31/2026

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PROJECT

Micro Market

S. VATGUE

PROJECT LOCATION

CALLE TORIM

W TAROOK

S. CAMINO POTAM

S. CAMINO COCOM

VICINITY

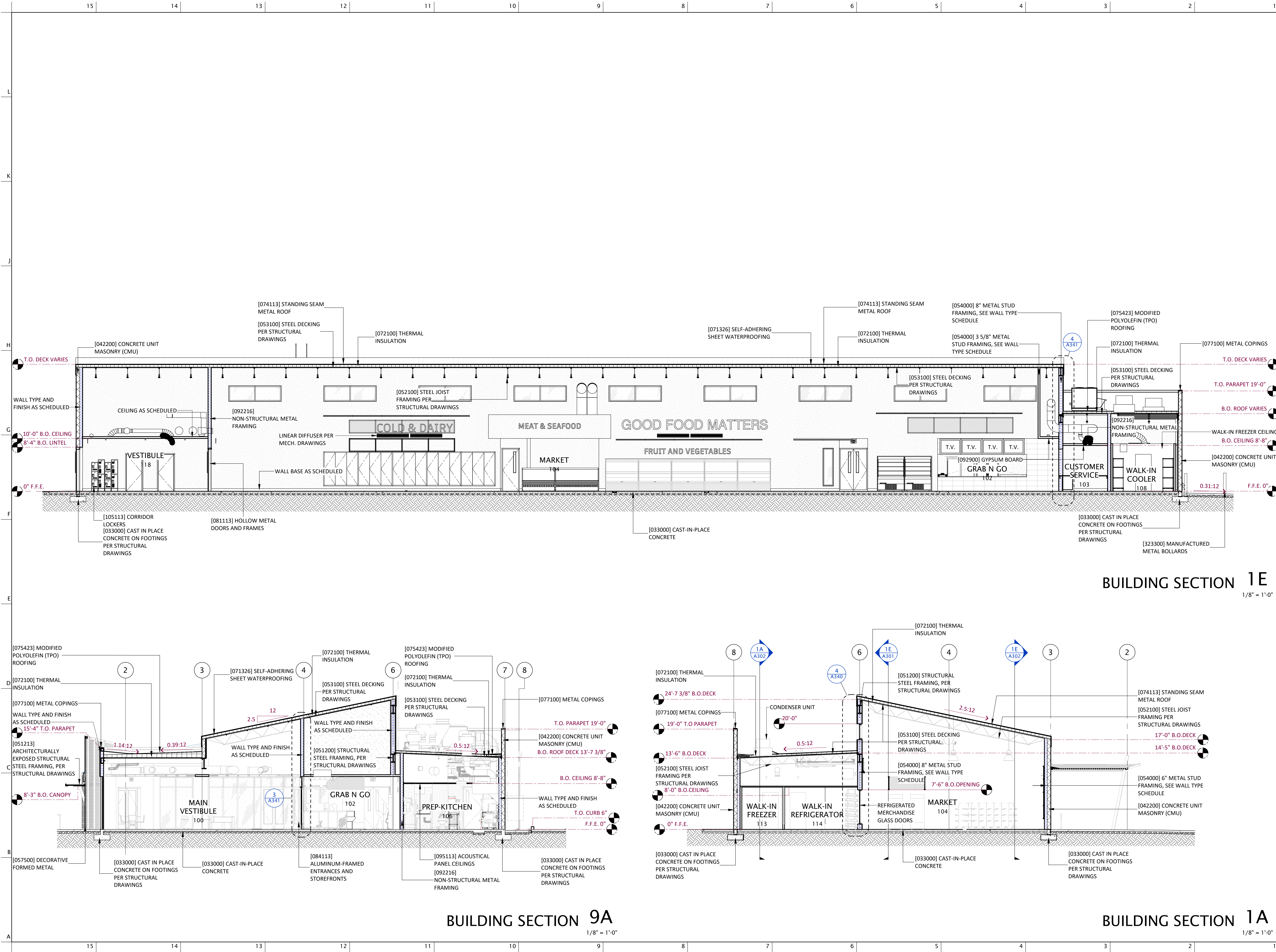
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SHEET TITLE

EXTERIOR ELEVATIONS

DATE 01.20.2025
SHEET A201



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PROJECT

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PROJECT LOCATION

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S. CAMINO COCOM

W. TAROOK

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NUMBER

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SHEET TITLE

BUILDING SECTIONS

DATE

01.20.2025

SHEET

A301



Micro Market

TUCSON, AZ 85757

S CAMINO COCOIM

REVISION		
NUMBER	DESCRIPTION	DATE

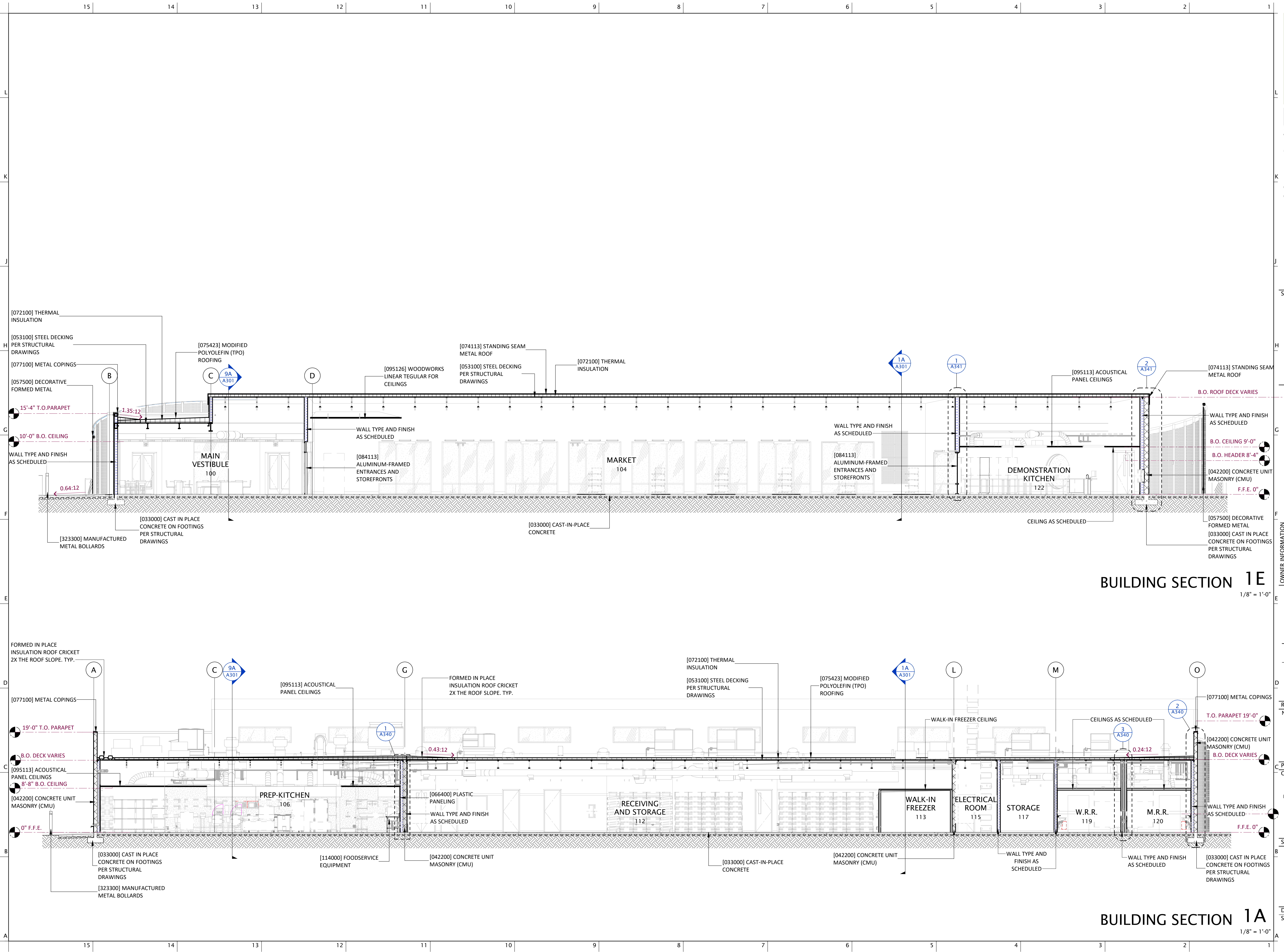
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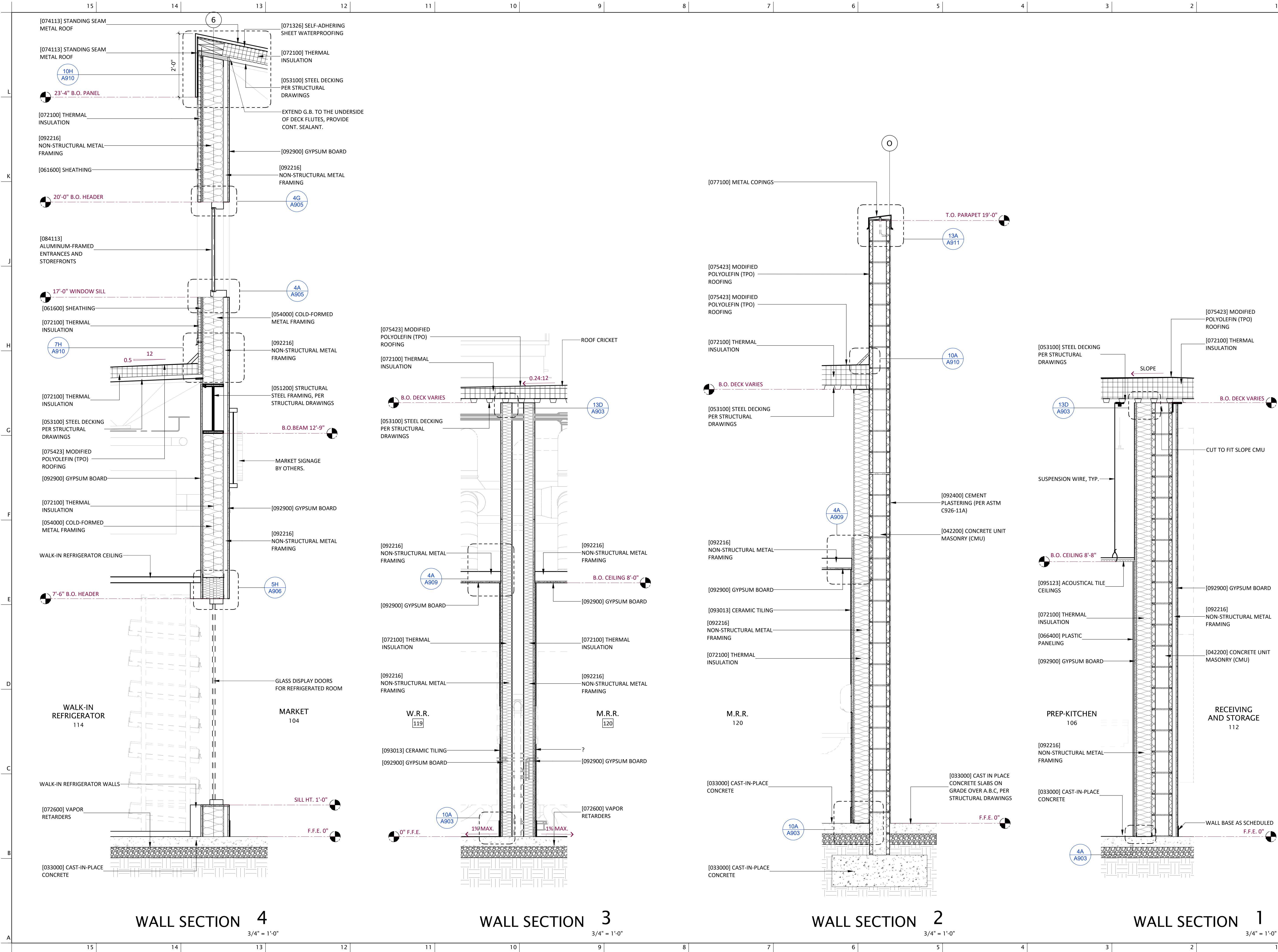
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HEET 1 OF 1


A302







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PROJECT	LOCATION	PROJECT	LOCATION
S VATGUE	PROJECT LOCATION	S CAMINO POTAM	S CAMINO COCOM
	CALLE TORIM		
	W TAROOK		W TAROOK

VICINITY

REVISION	NUMBER	DESCRIPTION	DATE

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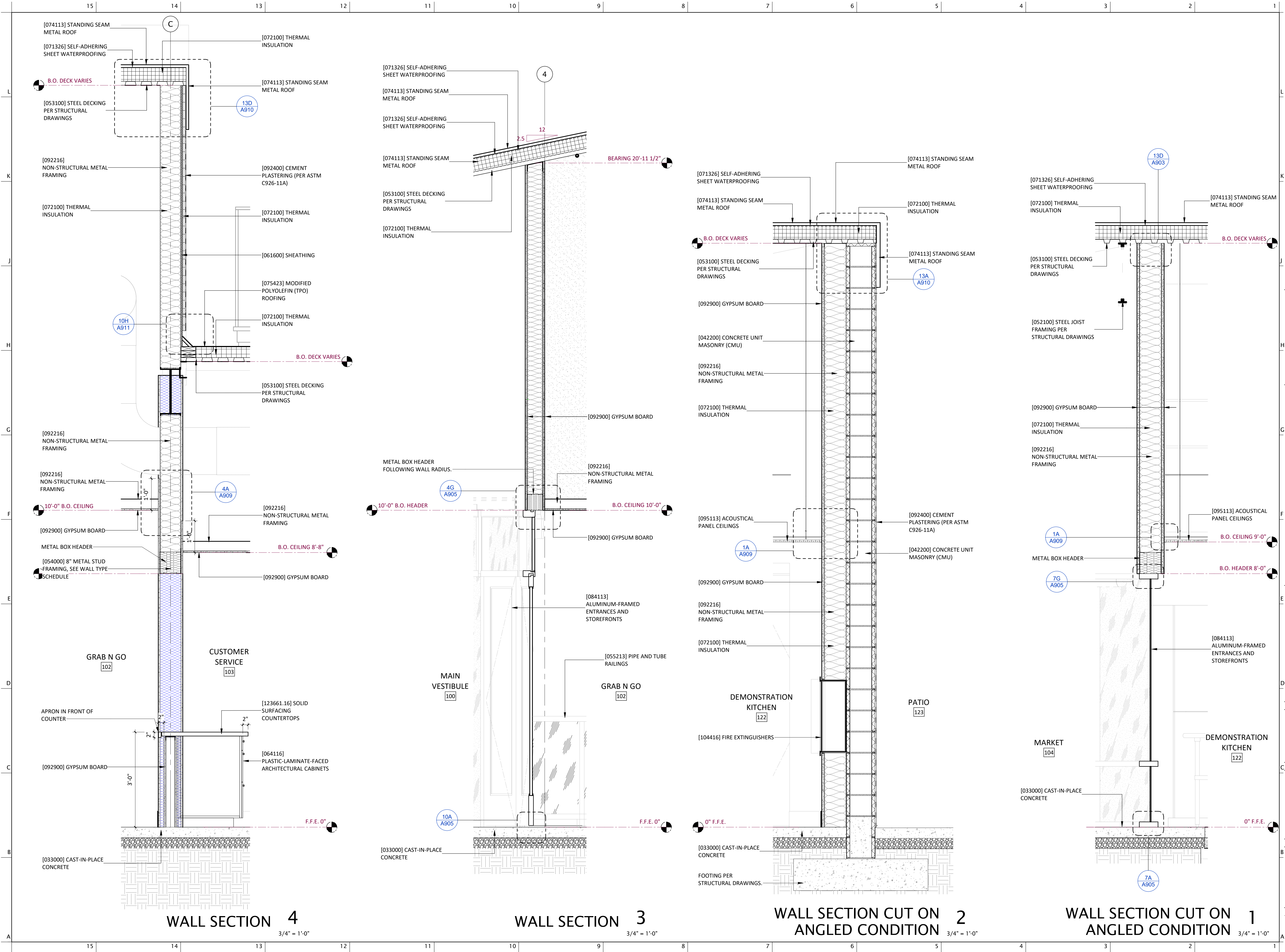
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SHEET TITLE

WALL SECTIONS

DATE 01.20.2025
SHEET

A340



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MURRIETA
STATE OF ARIZONA
EXPIRATION DATE 12/31/2026

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PROJECT

S VATGUE

PROJECT LOCATION

CALLE TORIM

W TAROOK

S CAMINO POTAM

S CAMINO COCOM

SEAL

VICINITY

CALLE TORIM

W TAROOK

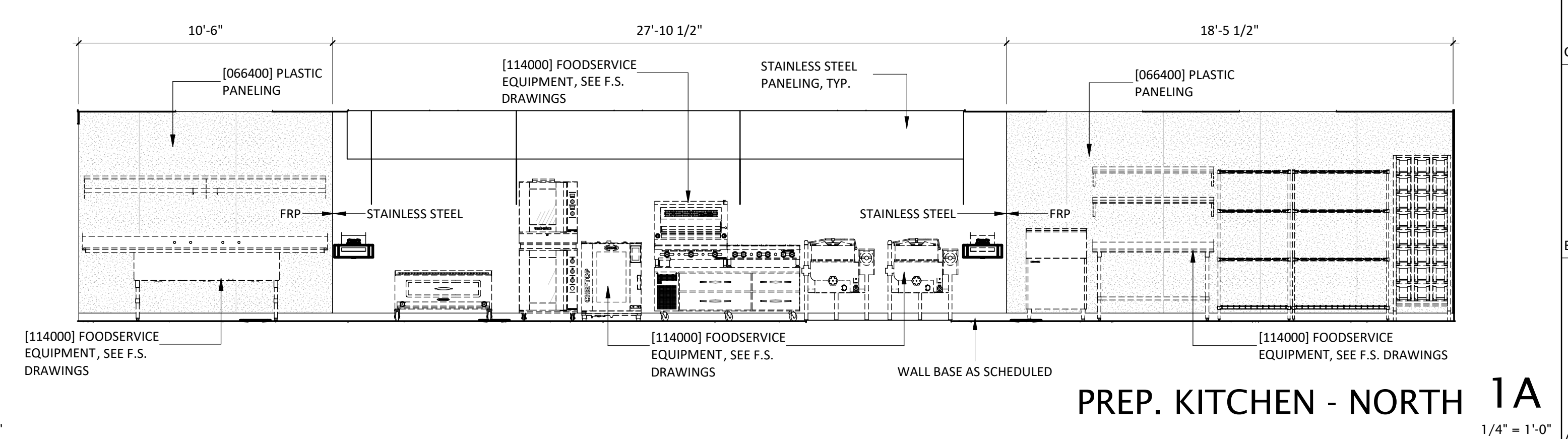
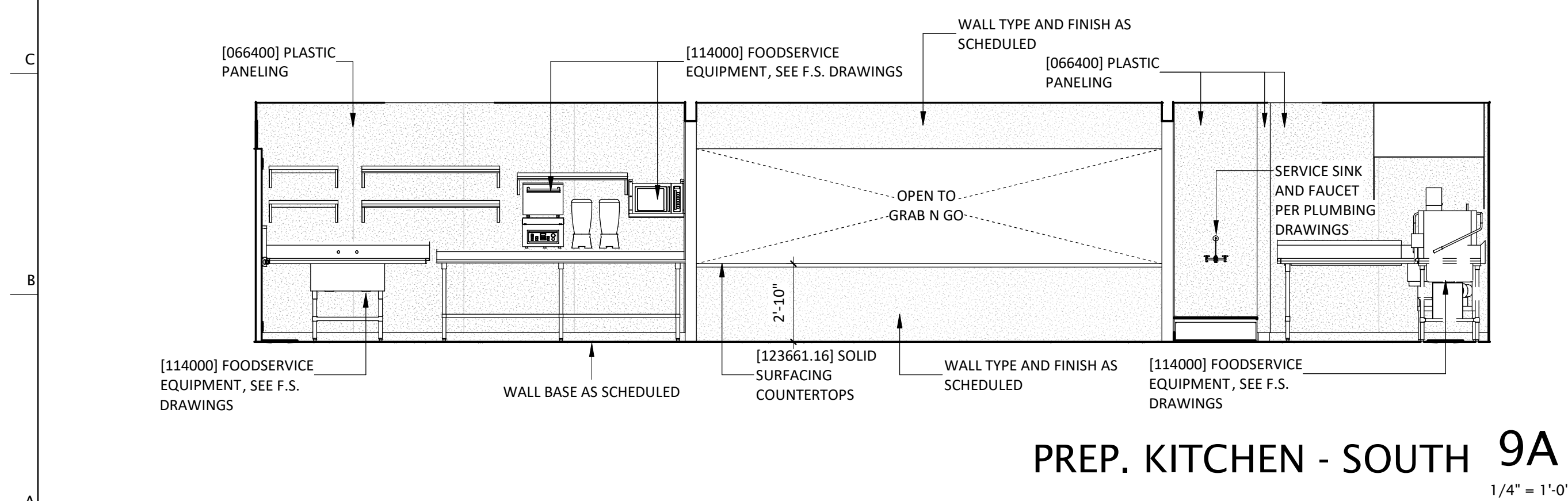
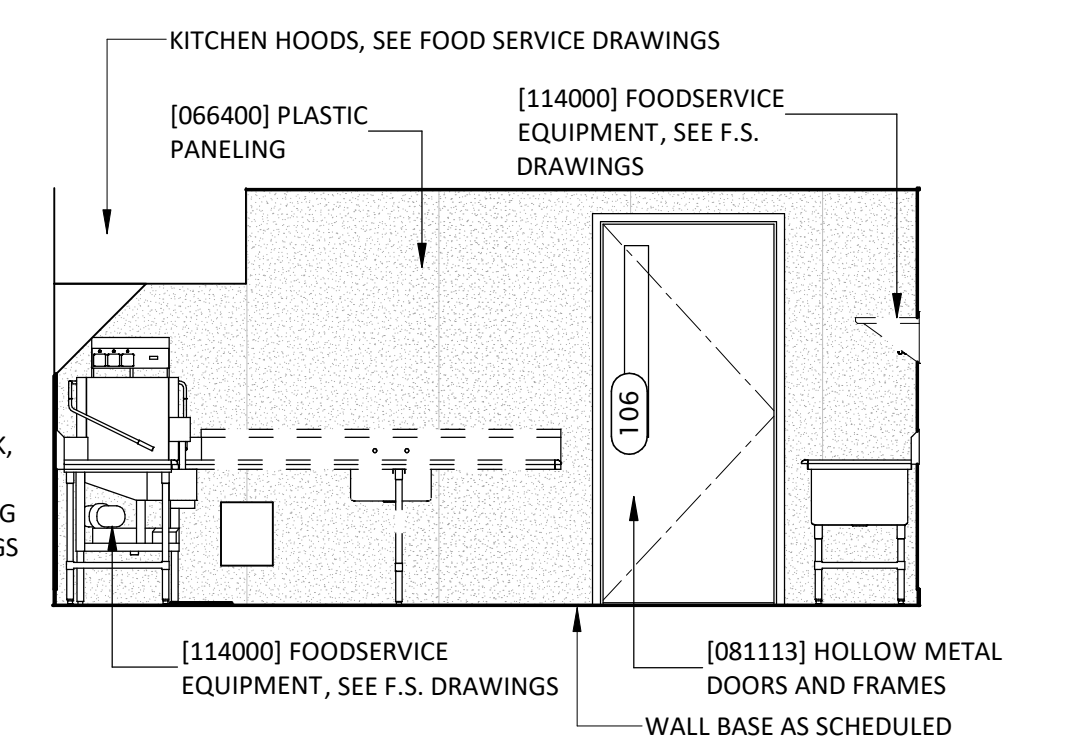
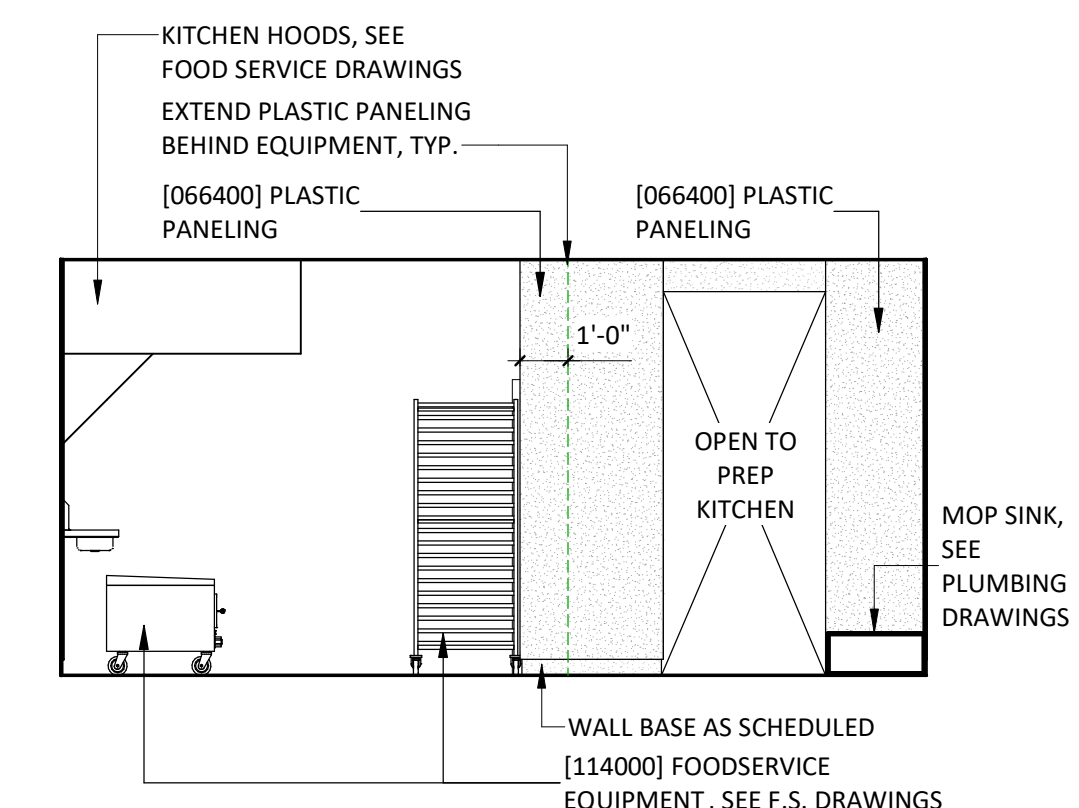
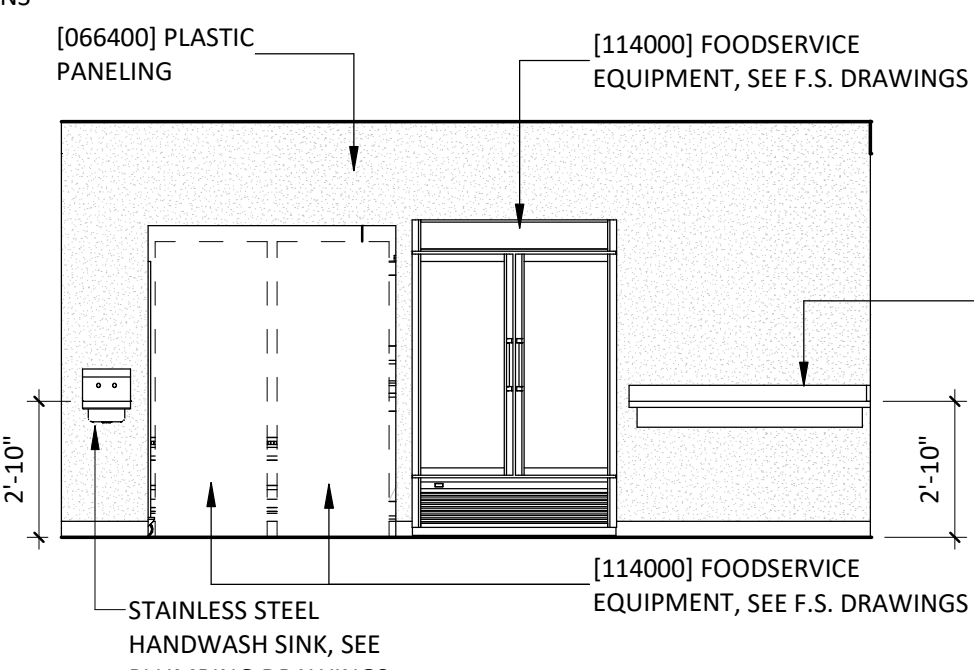
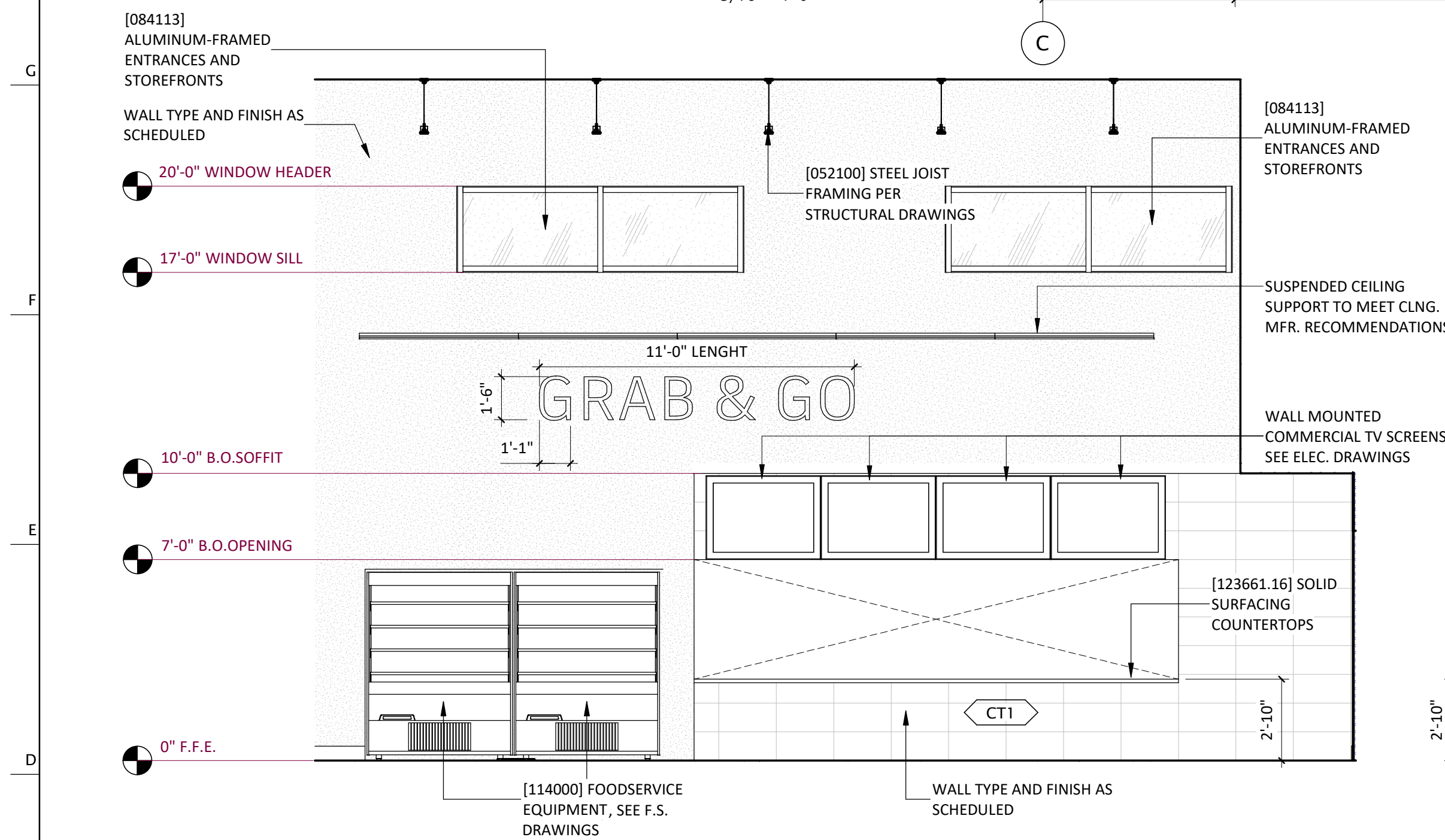
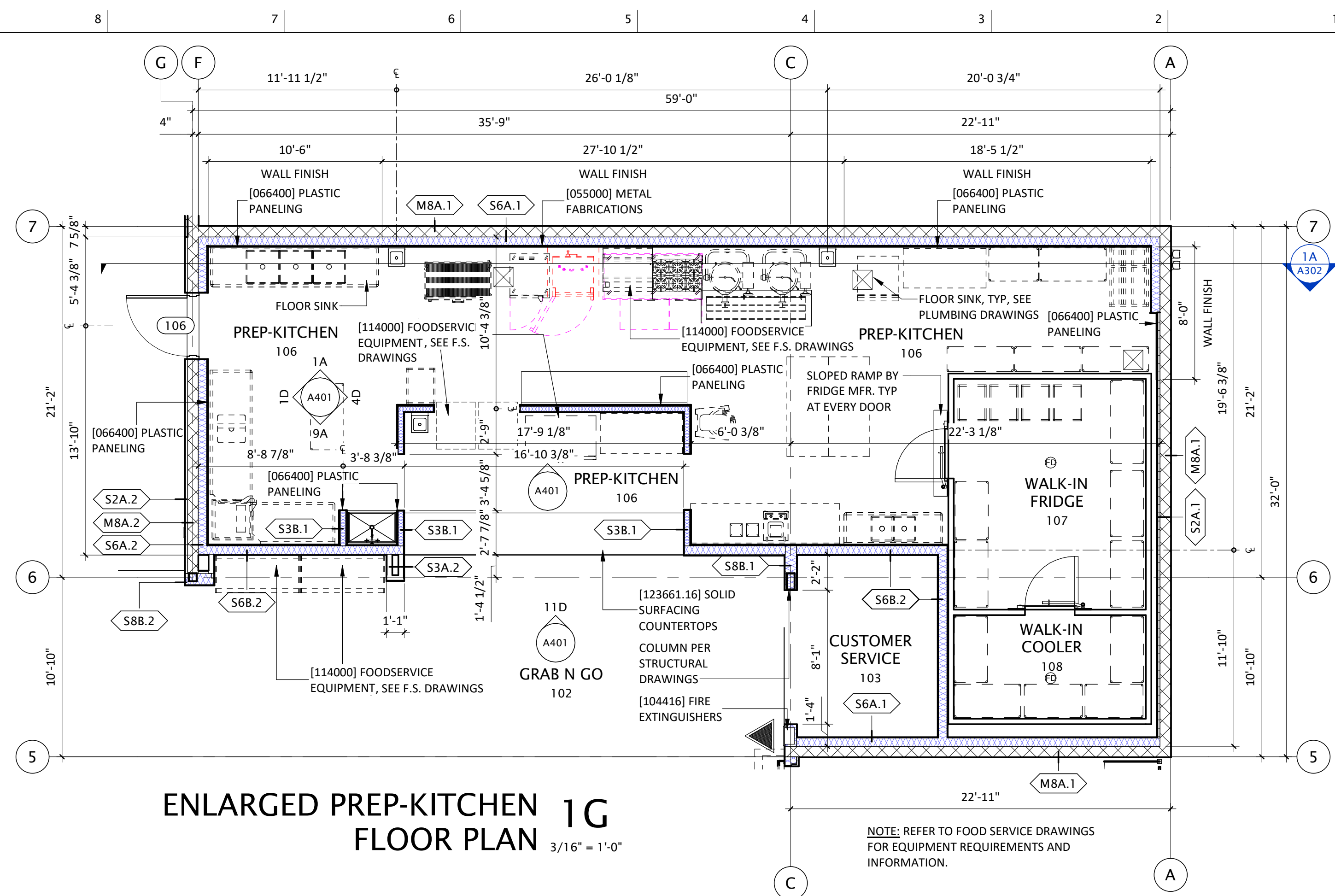
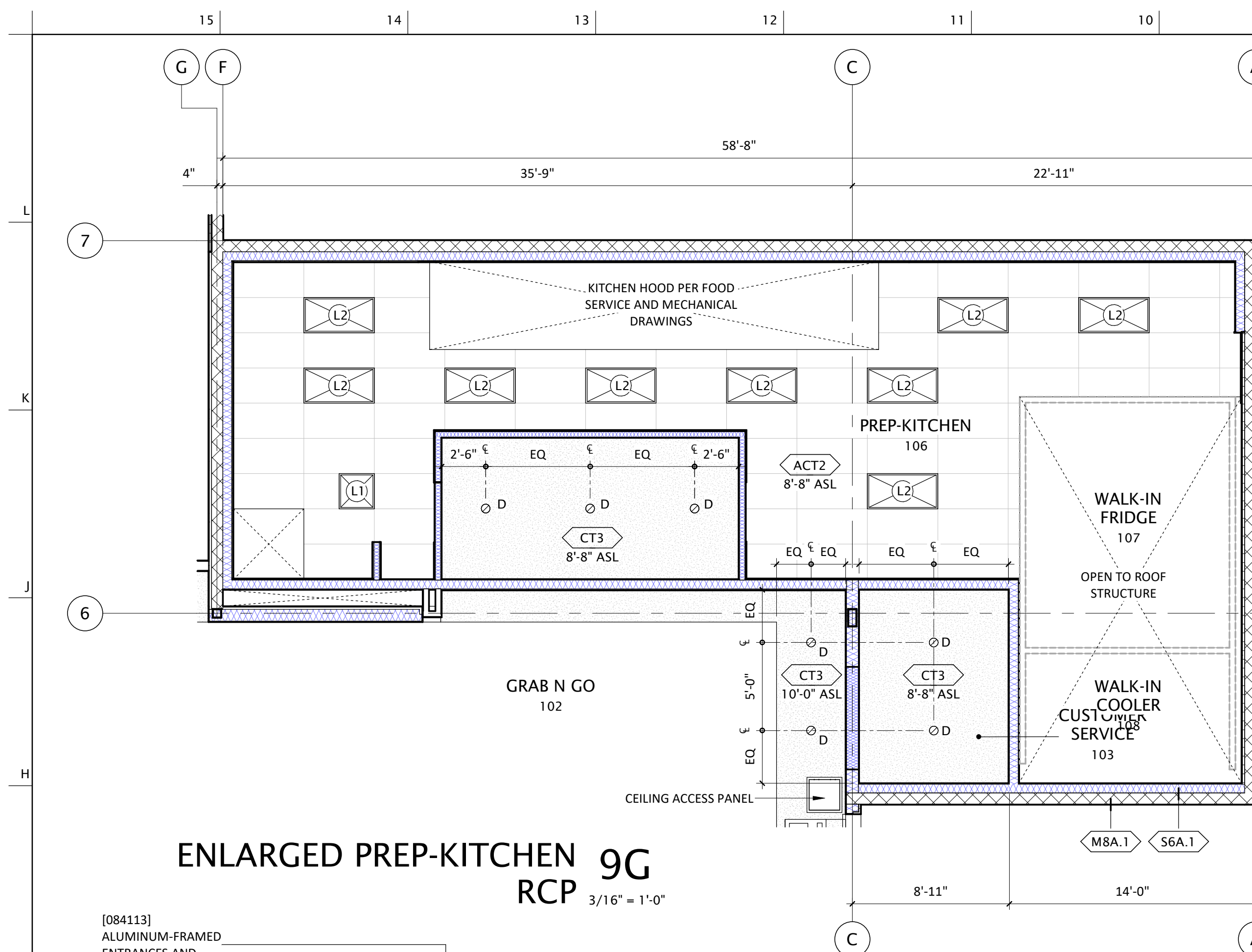
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SHEET TITLE	
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DATE	01.20.2025
SHEET	A341



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OWNER INFORMATION



VATGUE

2

1

REV

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NUMBER	DESCRIPTION	DATE

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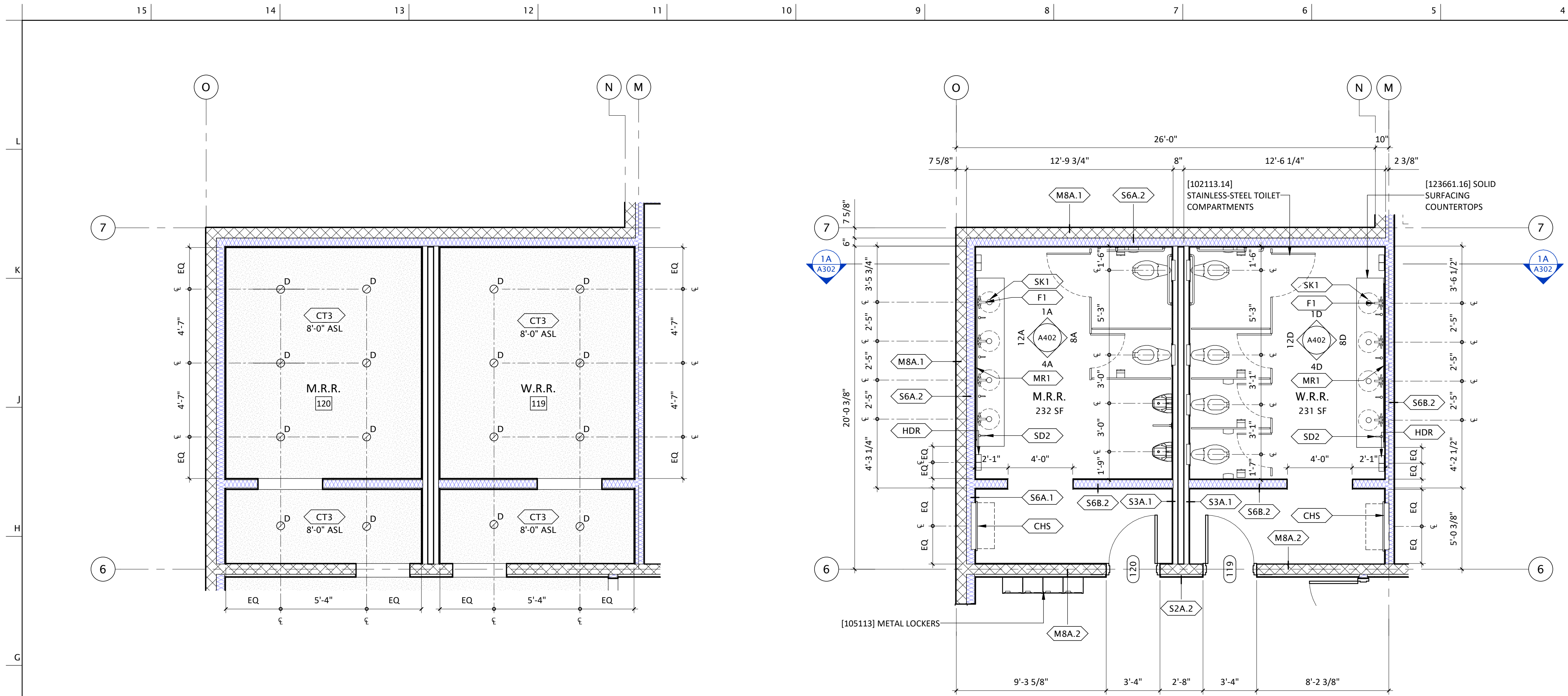
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SHEET TITLE

ENLARGED PREP-KITCHEN

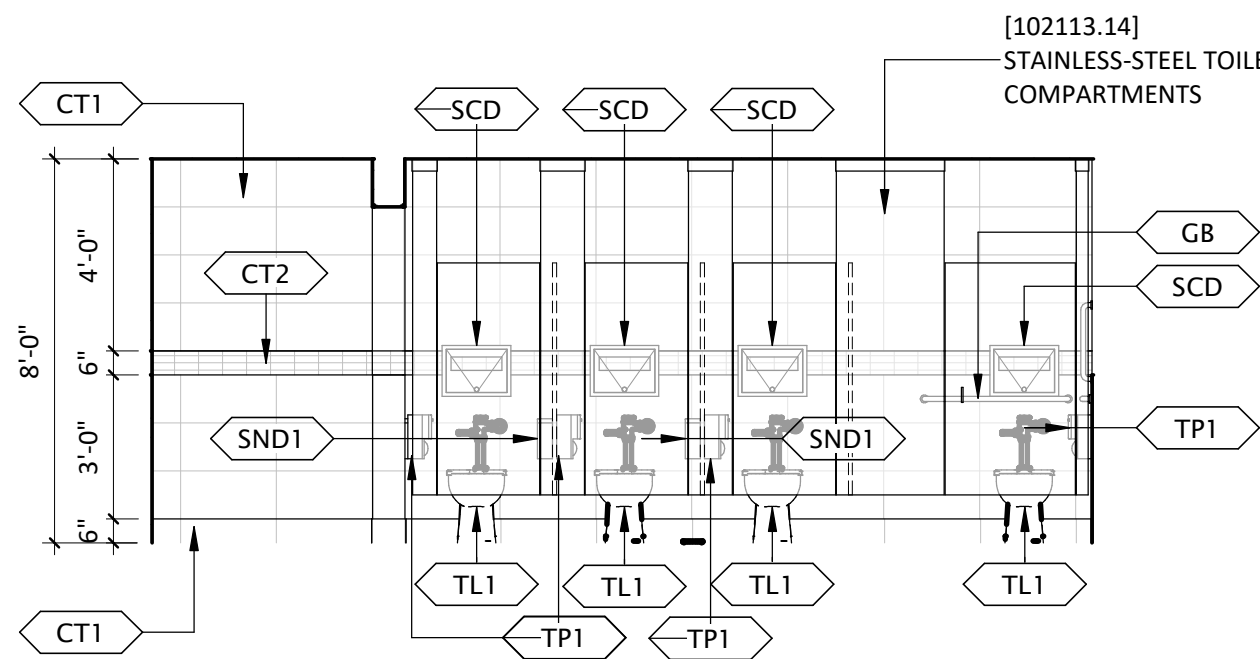
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A401

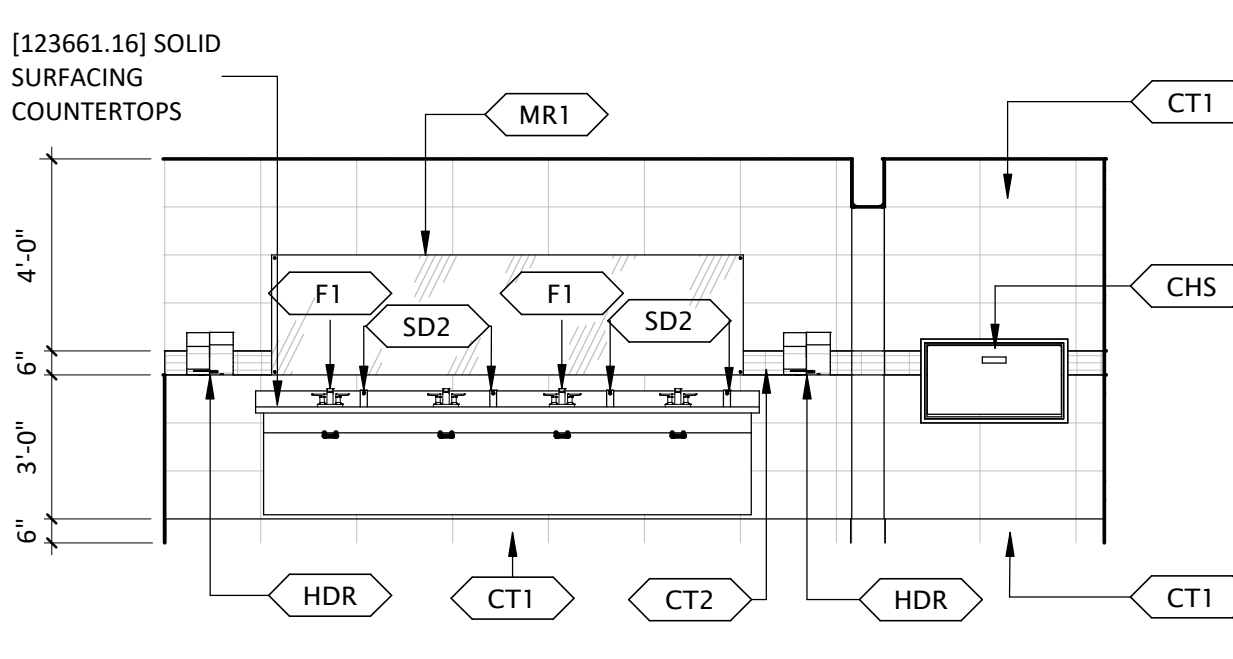


ENLARGED RESTROOMS RCP 10G
1/4" = 1'-0"

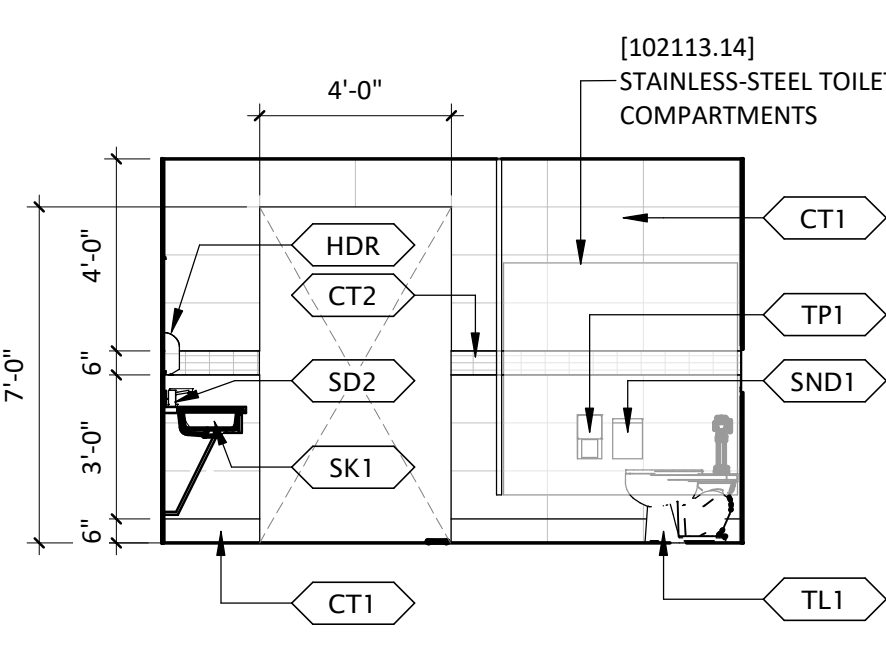
ENLARGED RESTROOMS 4G
1/4" = 1'-0"



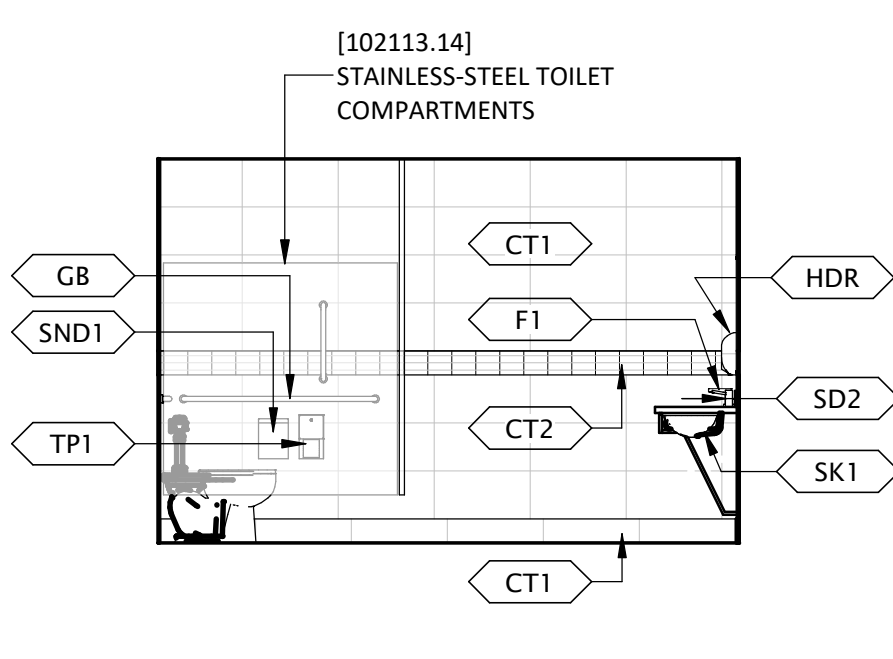
W.R.R. WEST 12D
1/4" = 1'-0"



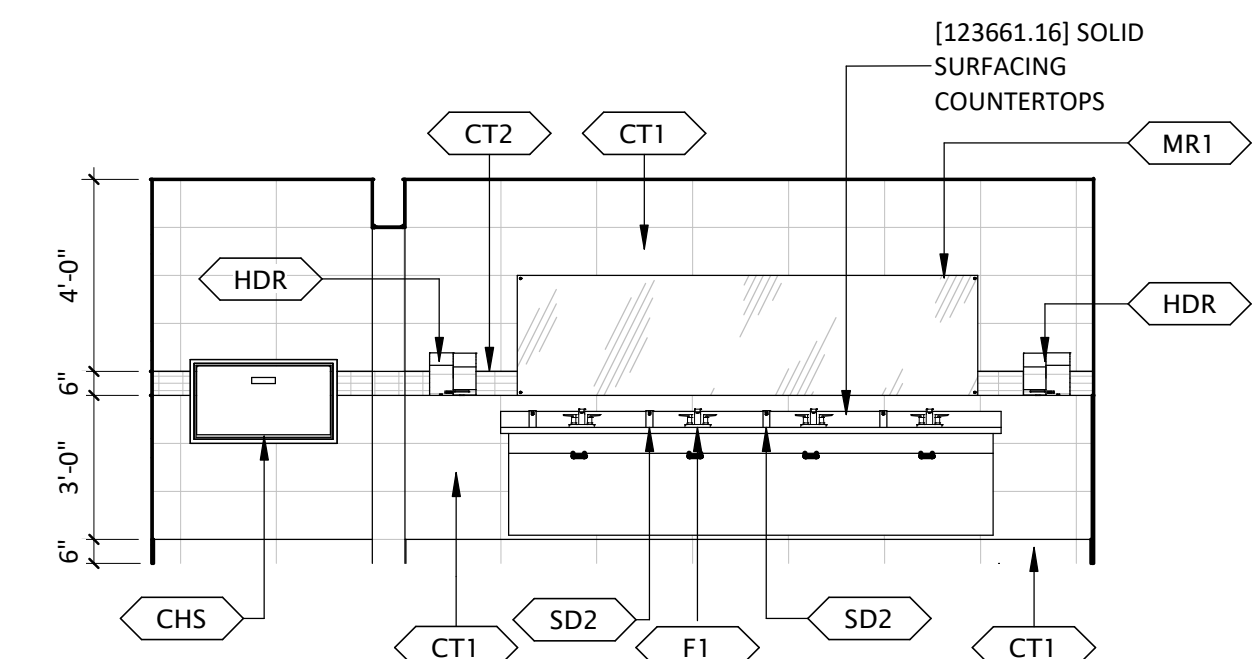
W.R.R. EAST 8D
1/4" = 1'-0"



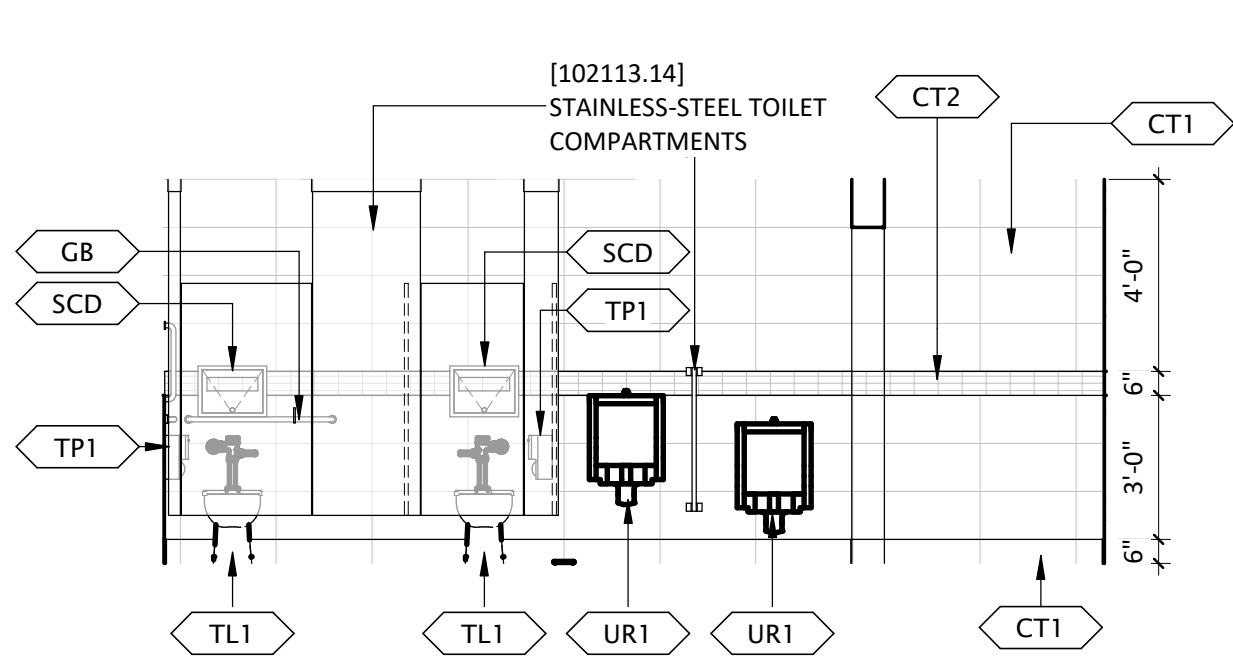
W.R.R. SOUTH 4D
1/4" = 1'-0"



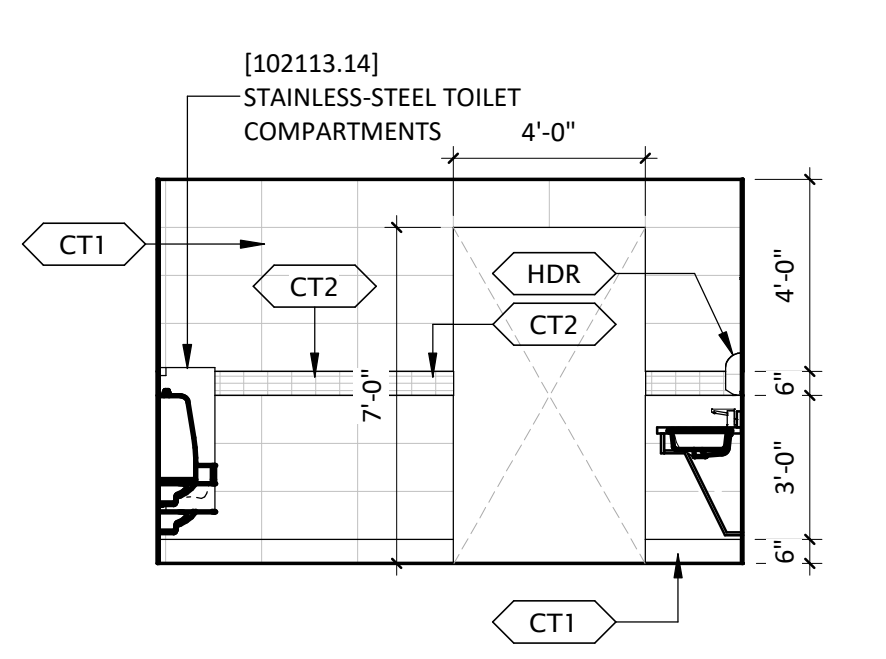
W.R.R. NORTH 1D
1/4" = 1'-0"



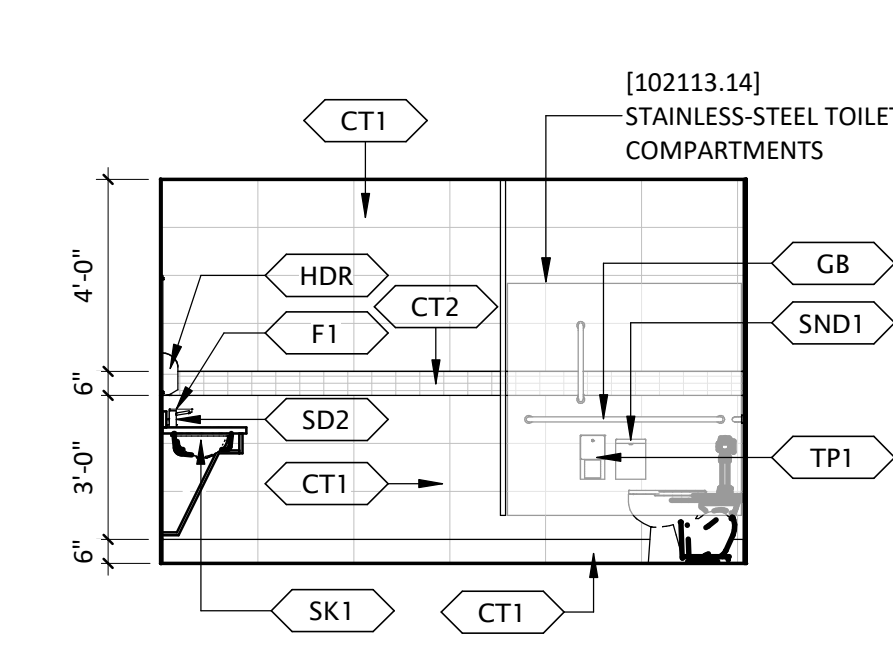
M.R.R. WEST 12A
1/4" = 1'-0"



M.R.R. EAST 8A
1/4" = 1'-0"



M.R.R. SOUTH 4A
1/4" = 1'-0"



M.R.R. NORTH 1A
1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE	
ITEM TAG	DESCRIPTION
F1	CENTERSET BATHROOM SINK FAUCET
FD	FLOOR DRAIN
SK1	ROUND UNDERMOUNT SINK
SK2	ADA HAND SINK WITH PADDLE BLADE FAUCET
SK3	WALL HUNG SINK W/MIRROR
SK4	SINK KITCHEN - DOUBLE
TL1	FLOOR MOUNTED COMMERCIAL TOILET
UR1	HIGH EFFICIENCY URINAL

TOILET ACCESSORY SCHEDULE	
MARK	DESCRIPTION
CHS	BABY CHANGING STATION
GB	GRAB BARS
MR1	STAINLESS STEEL MIRROR
SCD	RECESSED SEAT COVER DISPENSER
SD2	SOAP DISPENSER
SND1	SANITARY NAPKIN DISPOSAL
TP1	TOILET TISSUE DISPENSER
TP-1	CEILING-HUNG PARTITION STAINLESS STEEL TOILET COMPARTMENT
HDR	WALL MOUNTED HAND DRYER

RCP LEGEND		
SYMBOL	TAG	NAME
[Symbol]	ACT1	[09 51 23] LAY-IN 24"x24" ACOUSTICAL CEILING TILE
[Symbol]	ACT2	[09 51 23] LAY-IN 24"x48" ACOUSTICAL CEILING TILE
[Symbol]	CT3	[09 29 00] HARD-LID GYPSUM BOARD CEILING
[Symbol]	WP1	[09 54 26] WOODWORKS LINEAR REGULAR PANELS

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SEAL

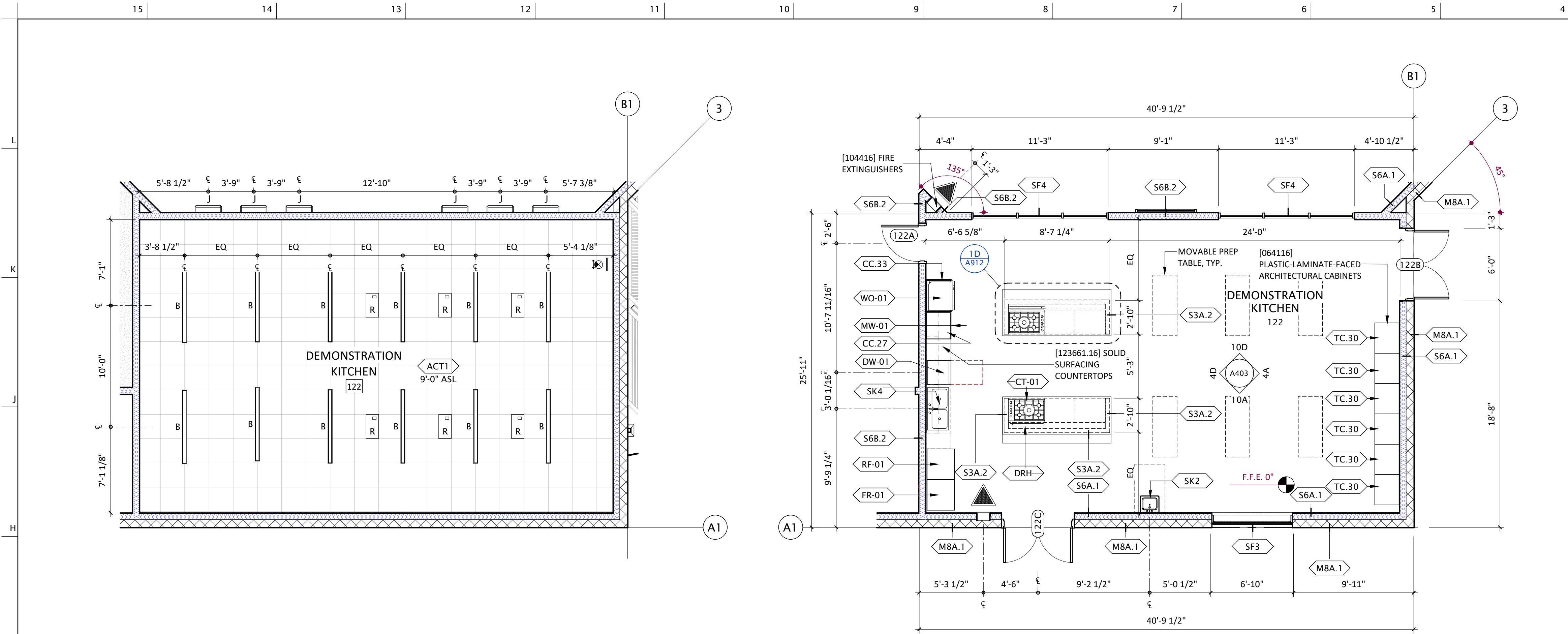
REGISTERED ARCHITECT
CERTIFICATE NO. 45961
CARLOS ANTONIO MURRIETA
STATE OF ARIZONA
EXPIRATION DATE 12/31/2026

Pascua Yaqui Tribe
7490 S CAMINO DE OESTE
TUCSON, AZ 85757

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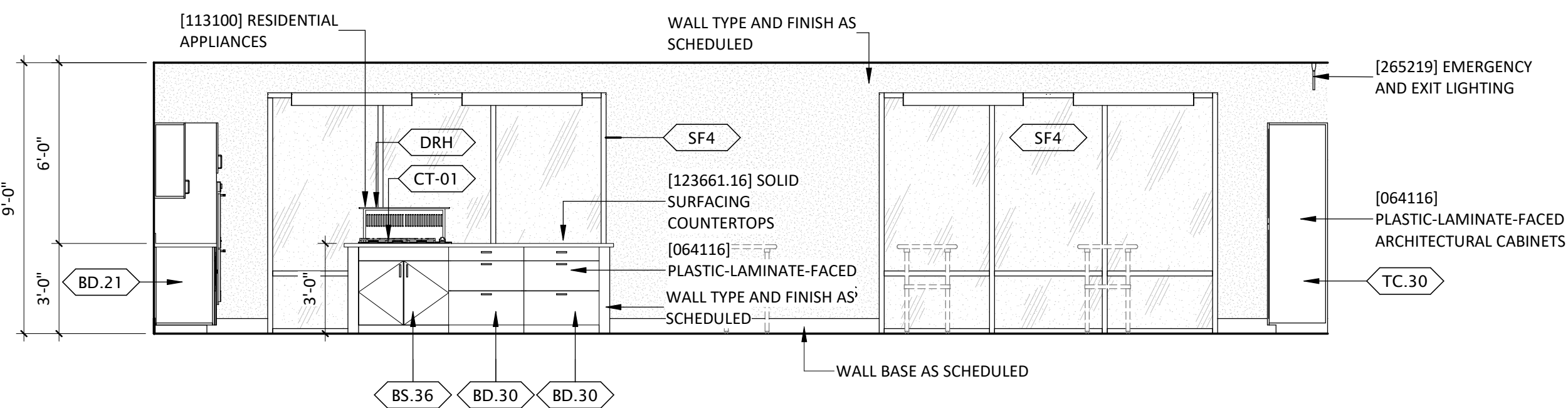
OWNER INFORMATION
PROJECT
S VATGUE
PROJECT LOCATION
CALLE TORIM
S CAMINO POTAM
S CAMINO COCOM
W TAROOK
W TAROOK
VICINITY

REVISION		
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SHEET TITLE		
ENLARGED RESTROOMS		
DATE	01.20.2025	
SHEET	A402	

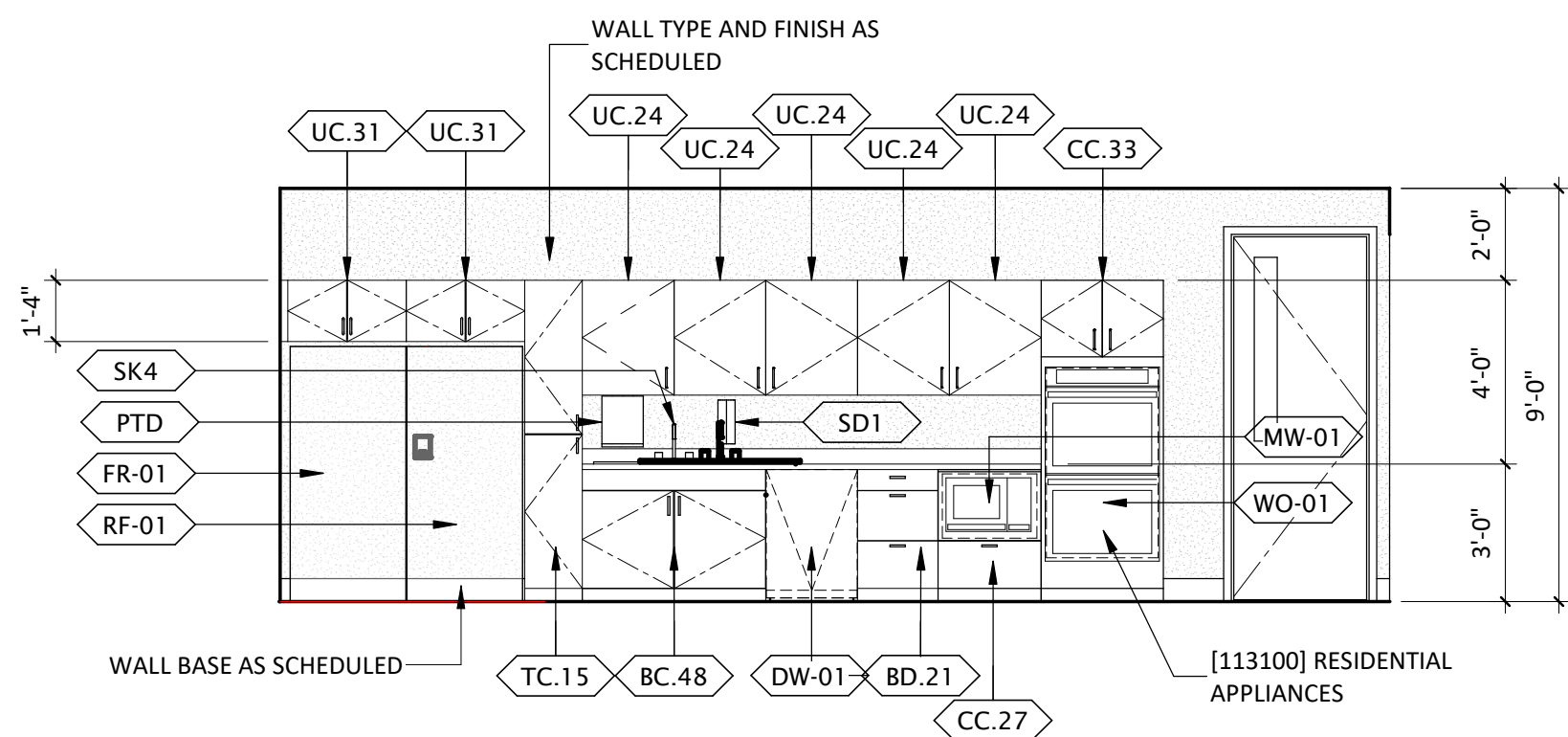


ENLARGED DEMONSTRATION KITCHEN RCP 11G
3/16" = 1'-0"

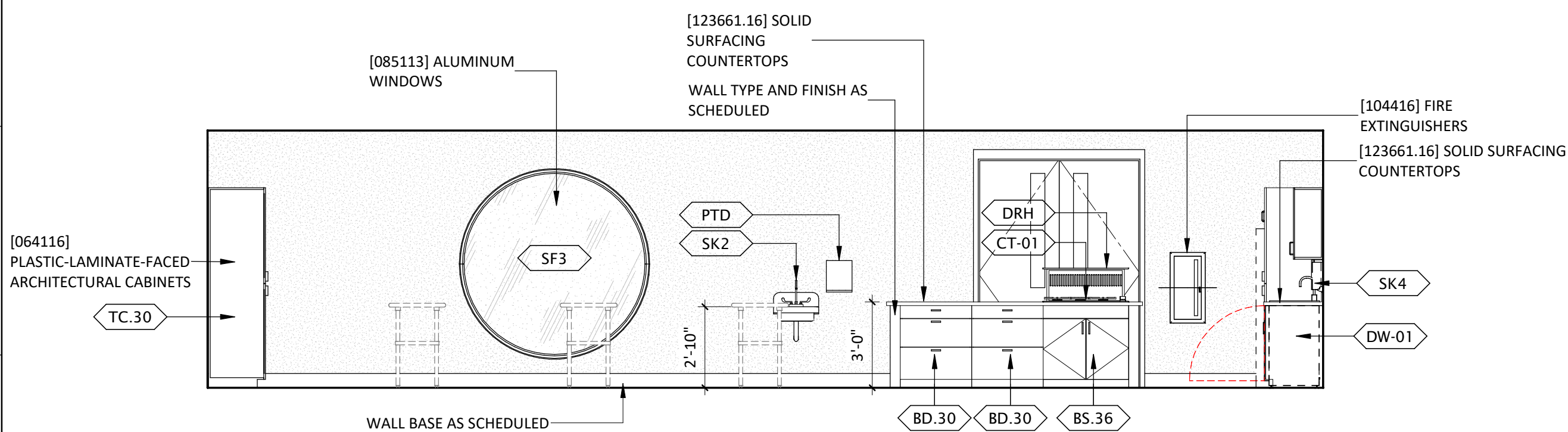
ENLARGED DEMONSTRATION KITCHEN 5G
3/16" = 1'-0"



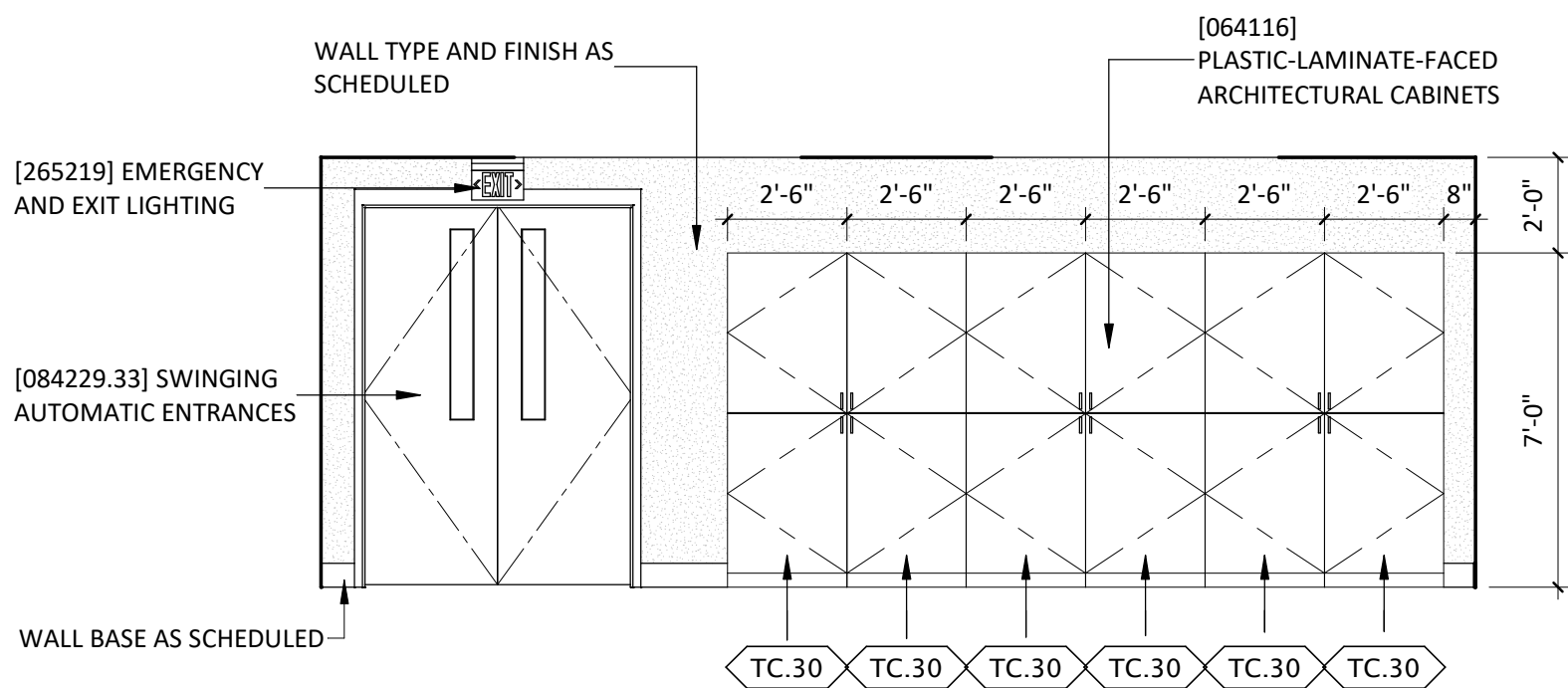
DEMO KITCHEN - NE 10D
1/4" = 1'-0"



DEMO KITCHEN - NW 4D
1/4" = 1'-0"



DEMO KITCHEN - SW 10A
1/4" = 1'-0"



DEMO KITCHEN - SE 4A
1/4" = 1'-0"

KITCHEN EQUIPMENT SCHEDULE				
ITEM TAG	DESCRIPTION			
	Motorized Shade			
CT-01	36" GAS COOKTOP			
DRH	36" DOWNDRAFT EXHAUST			
DW-01	DISHWASHER PER SPECIFICATIONS			
FR-01	19 CU FT. SINGLE-DOOR ALL FREEZER			
MW-01	2.2 CU FT. BUILT-IN MICROWAVE OVEN			
PTD	PAPER TOWEL DISPENSER			
RF-01	19 CU FT. SINGLE-DOOR ALL REFRIGERATOR			
SD1	AUTOMATIC SOAP DISPENSER			
WO-01	30" DOUBLE ELECTRIC WALL OVEN			
CASEWORK SCHEDULE				
ITEM TAG	WIDTH	HEIGHT	DEPTH	DESCRIPTION
BC.48	4'-0"	2'-10 1/2"	2'-0"	BASE CABINET DOUBLE DOOR SINK UNIT
BD.21	1'-9"	2'-10 1/2"	2'-0"	BASE CABINET WITH 3-DRAWERS
BD.30	2'-6"	2'-10 1/2"	2'-0"	ISALAND BASE CABINET WITH 3-DRAWERS
BS.36	3'-0"	2'-10 1/2"	2'-0"	ISLAND BASE CABINET DOUBLE DOOR SINK UNIT
CC.27	2'-8"	7'-0"	2'-0"	BASE CABINET WITH ONE DRAWER AND TOP SIDE FOR BUILT-IN MICROWAVE
CC.33	2'-8"	7'-0"	2'-0"	TALL CABINET FOR DOUBLE WALL OVEN OPENING AND DOUBLE DOORS ON UPPER SIDE
TC.15	1'-3"	7'-0"	2'-0"	TALL CABINET WITH TWO SINGLE-DOORS
TC.30	2'-6"	7'-0"	2'-0"	TALL CABINET WITH TWO SINGLE-DOORS
UC.24	2'-0"	2'-6"	1'-0"	UPPER CABINET WITH SINGLE-DOOR
UC.31	2'-7"	1'-4"	2'-0"	UPPER CABINET WITH DOUBLE DOORS
PLUMBING FIXTURE SCHEDULE				
ITEM TAG	DESCRIPTION			
F1	CENTERSET BATHROOM SINK FAUCET			
FD	FLOOR DRAIN			
SK1	ROUND UNDERMOUNT SINK			
SK2	ADA HAND SINK WITH PADDLE BLADE FAUCET			
SK3	WALL HUNG SINK W/MIRROR			
SK4	SINK KITCHEN - DOUBLE			
TL1	FLOOR MOUNTED COMMERCIAL TOILET			
UR1	HIGH EFFICIENCY URINAL			

RCP LEGEND

SYMBOL	TAG	NAME
	AP2	LAY-IN 24\"X24\" VYNIL FACED CEILING TILE
	B	72\" NEXA 807 RECESSED
	J	HTG-1W-MM MULLION MOUNTED
		EXIT SIGN, SEE ELECTRICAL DRAWINGS
	R	PLENUM RATED CORD REEL ENCLOSURE WITH HEAVY DUTY CORD REEL FROM HUBBELL OR SIMILAR



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PROJECT

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PROJECT LOCATION

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S CAMINO POTAM
S CAMINO COCOM

W TAROOK

W TAROOK

VICINITY

REVISION	NUMBER	DESCRIPTION	DATE
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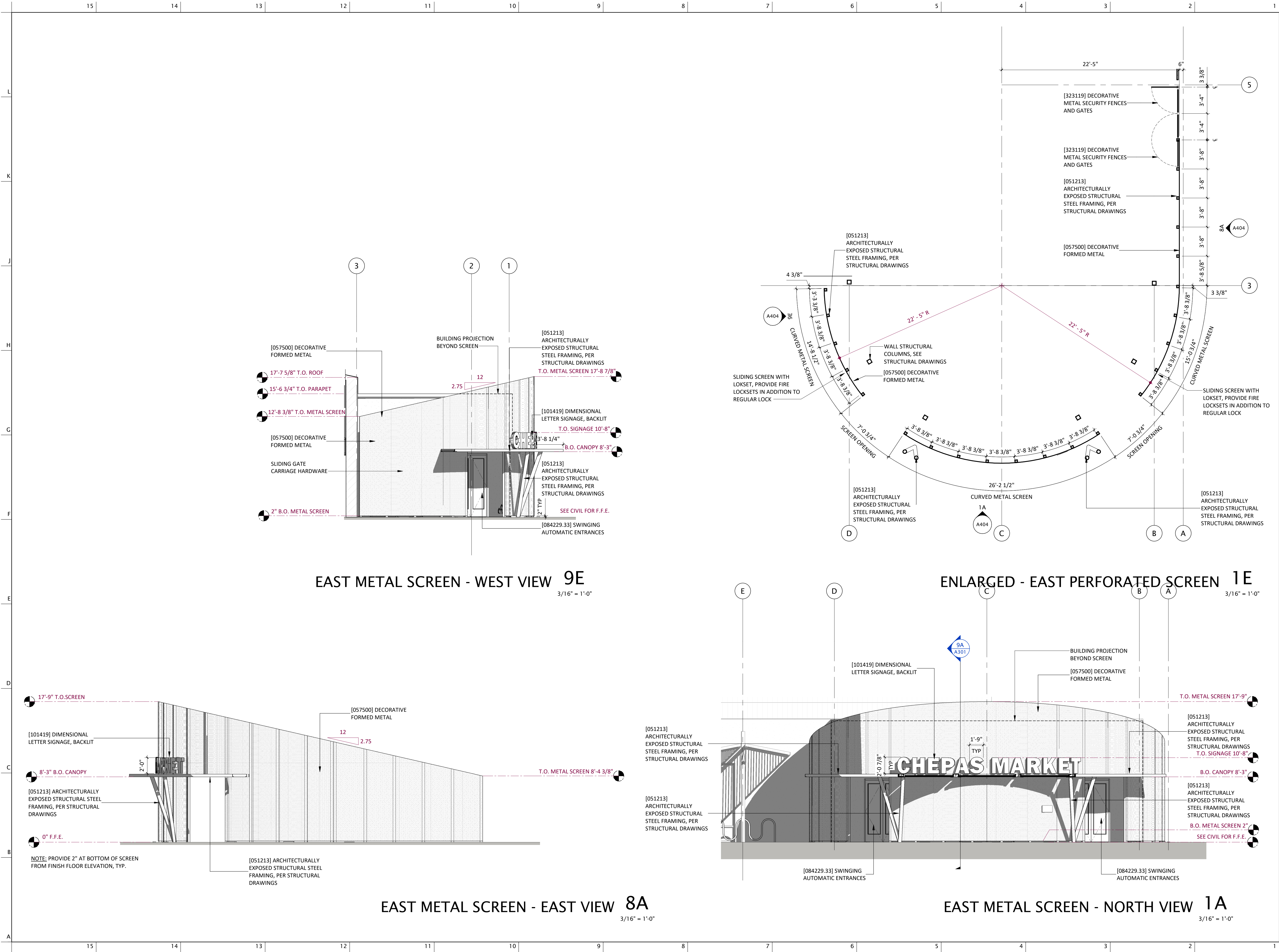
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SHEET TITLE

**ENLARGED
DEMO KITCHEN**

DATE 01.20.2025
SHEET


A403






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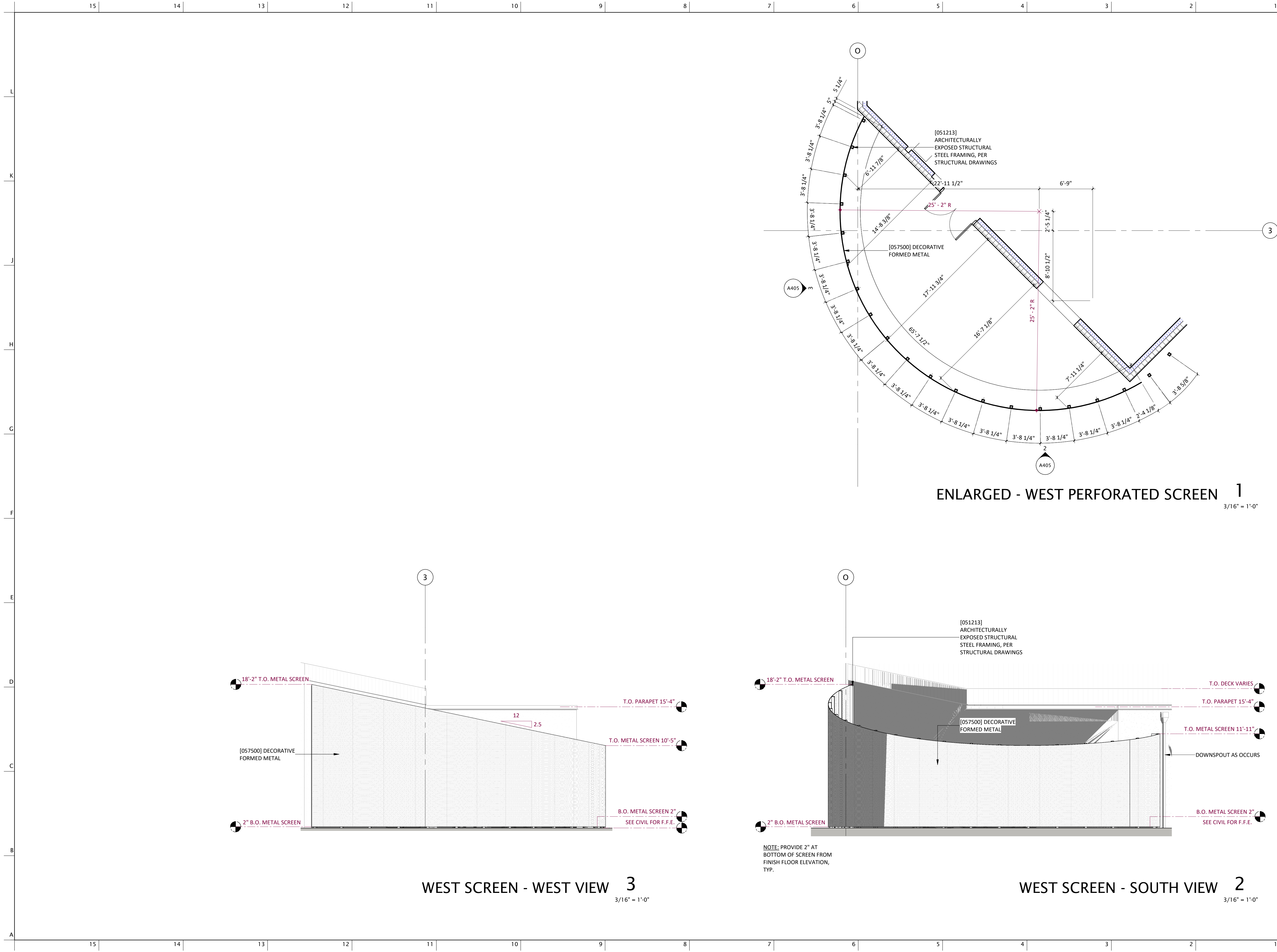
SHEET TITLE

PERFORATED SCREEN

DATE 01.20.2025

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S CAMINO COCOIM

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W TAROOK

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D	W	TAROOK	W	TAROOK		

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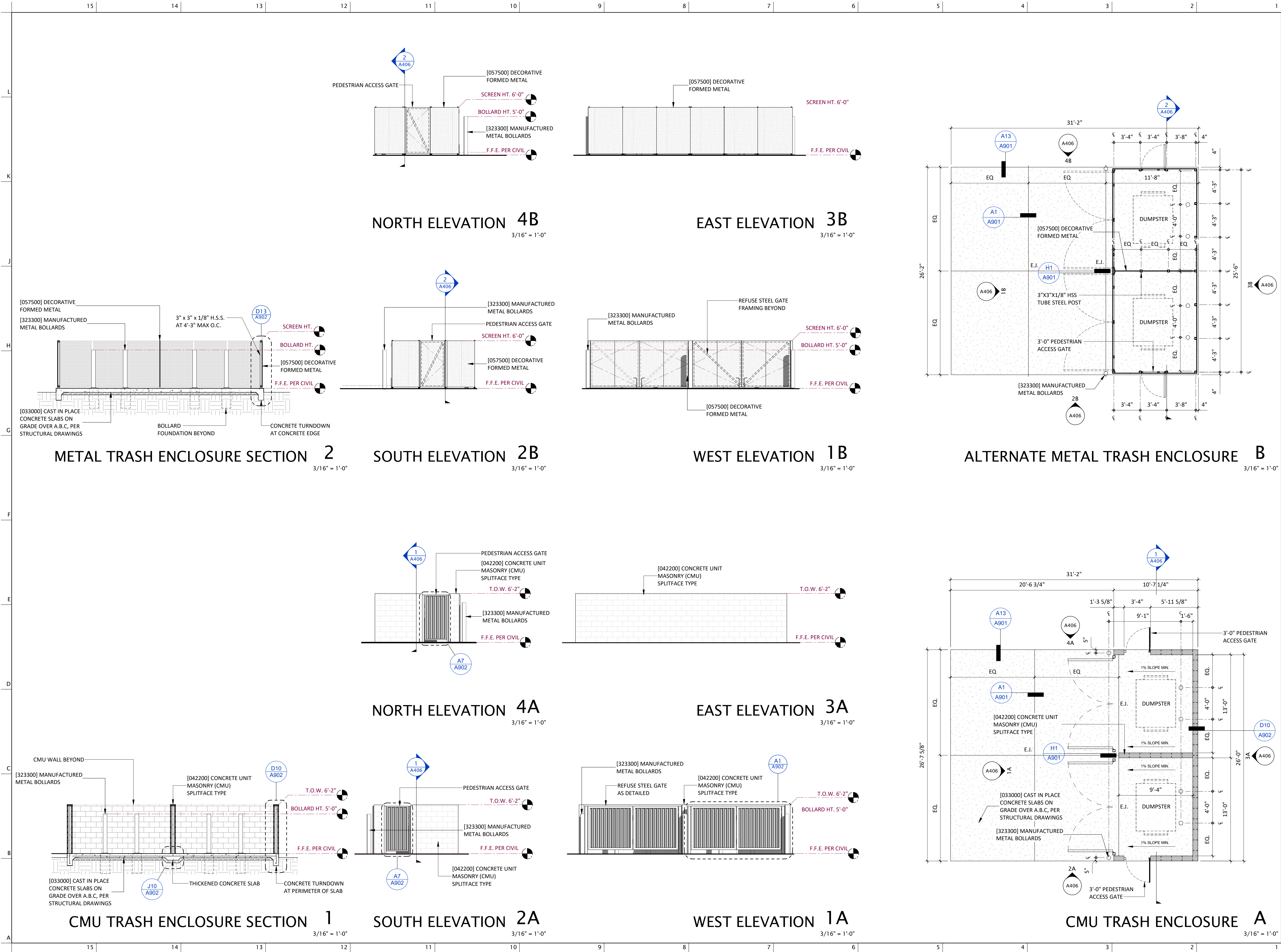
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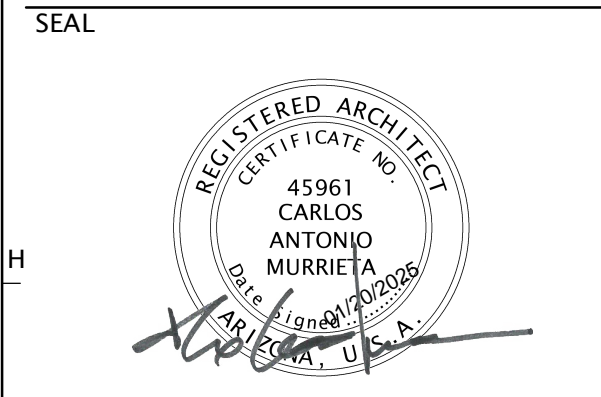
PERFORATED SCREEN

DATE	01.20.2025
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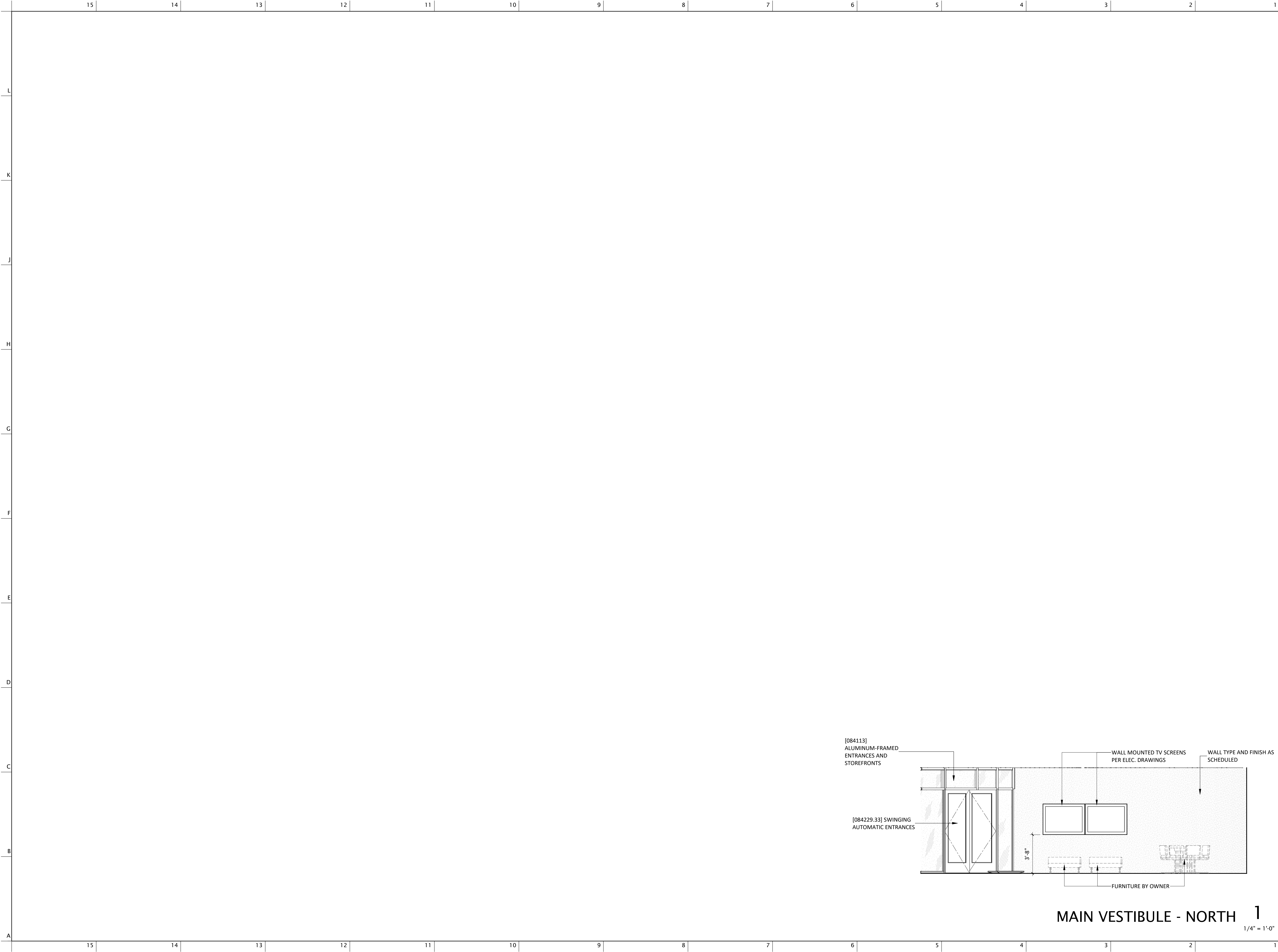
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SHEET TITLE

TRASH ENCLOSURE

DATE 01.20.2025
SHEET

A406



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PROJECT LOCATION

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SHEET TITLE

INTERIOR

ELEVATIONS

DATE 01.20.2025

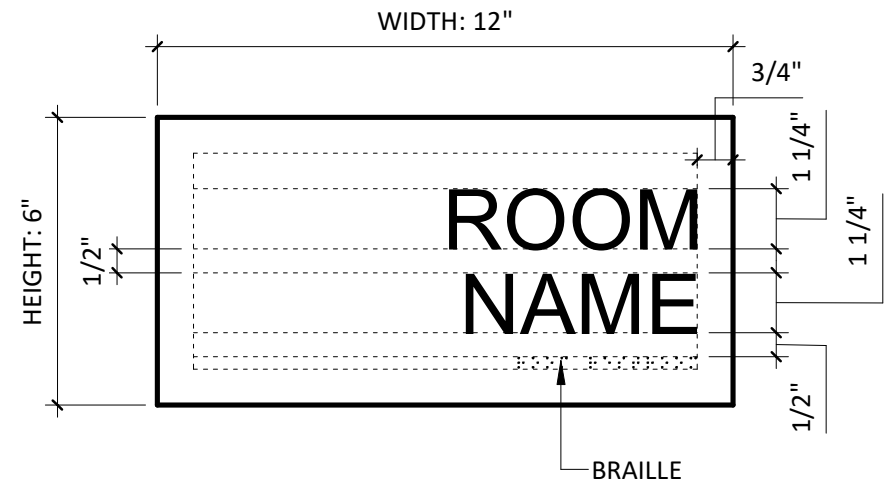
SHEET

A501

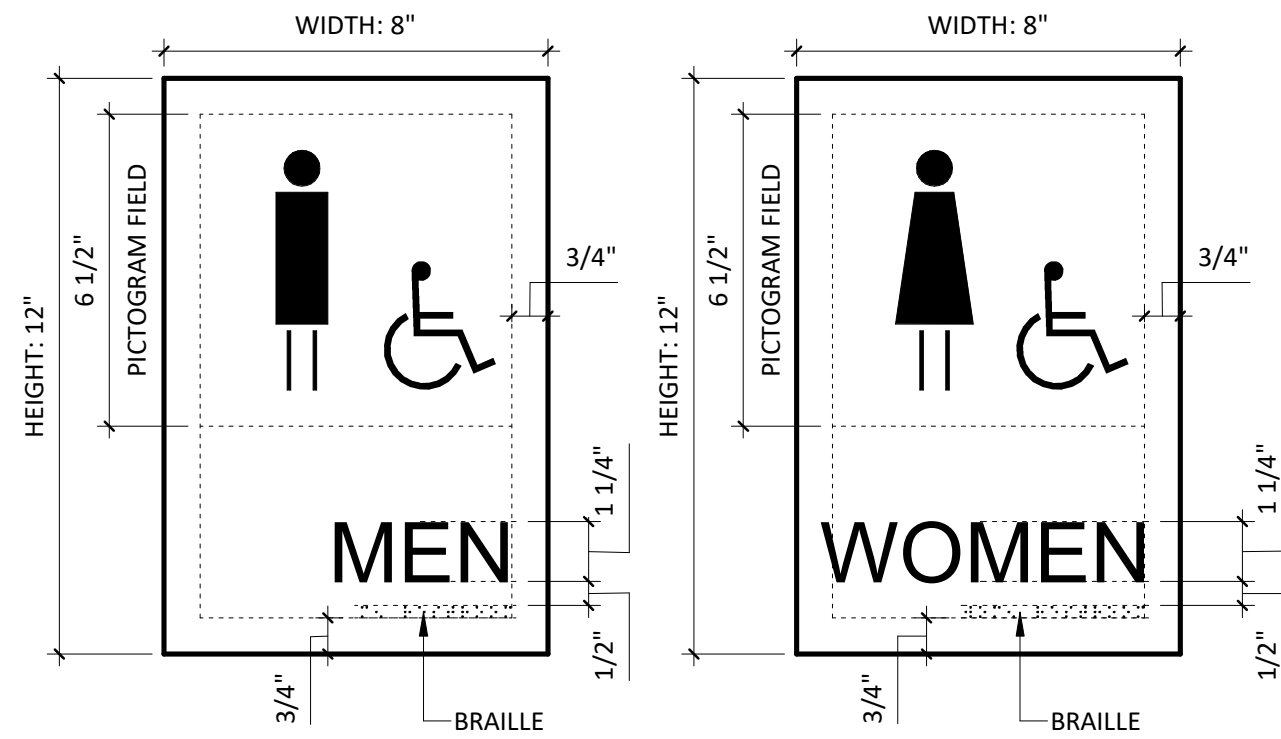
NOTES:
LETTER FONT: SF ORSON CASUAL MEDIUM
HEIGHT: 1 1/4"
FONT COLOR: BY ARCHITECT
SIGNAGE BACKGROUND COLOR: BY ARCHITECT

ROOMS TO HAVE ROOM SIGN:
JANITOR
STORAGE
MECHANICAL ROOM
ELECTRICAL ROOM(*)
FIRE RISER (**)
NOTES:
(*) EXTERIOR SIGN
(**) FIRE RISER SIGN PER IFC REQUIREMENTS

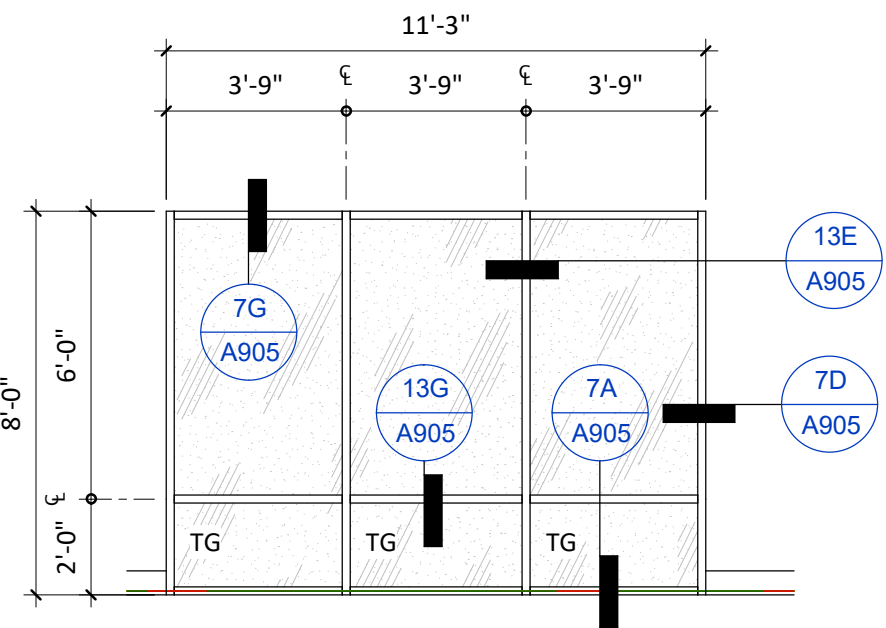
BRAILLE SHALL COMPLY WITH ADA
REQUIREMENTS PER CHAPTER 7 SECTION 703.4



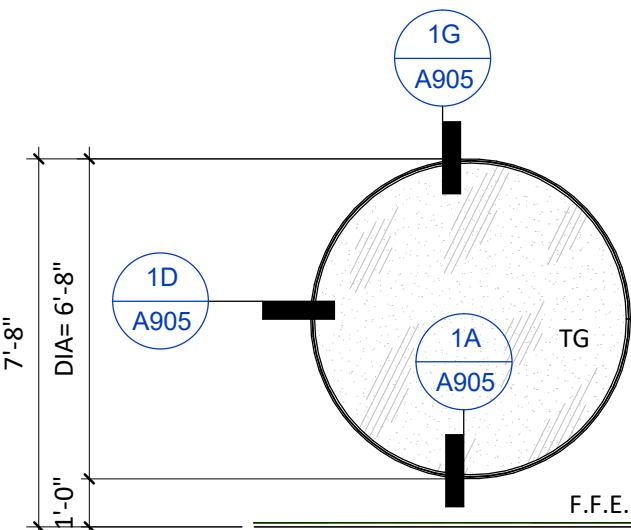
ROOM SIGN F7
3" = 1'-0"



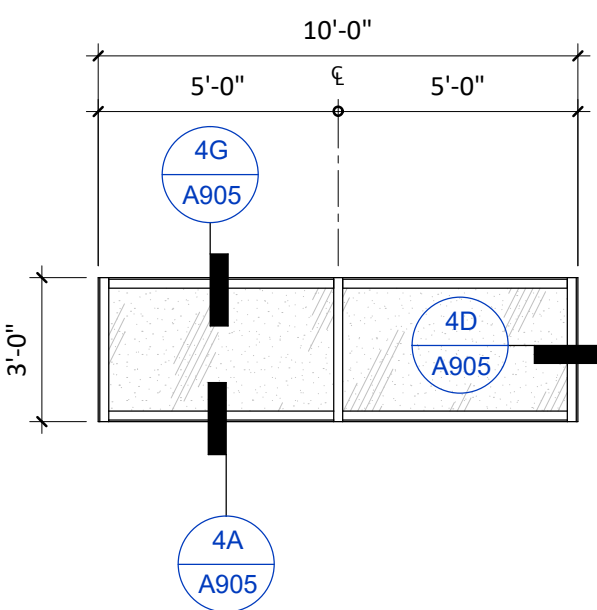
RESTROOM SIGNS F4
3" = 1'-0"



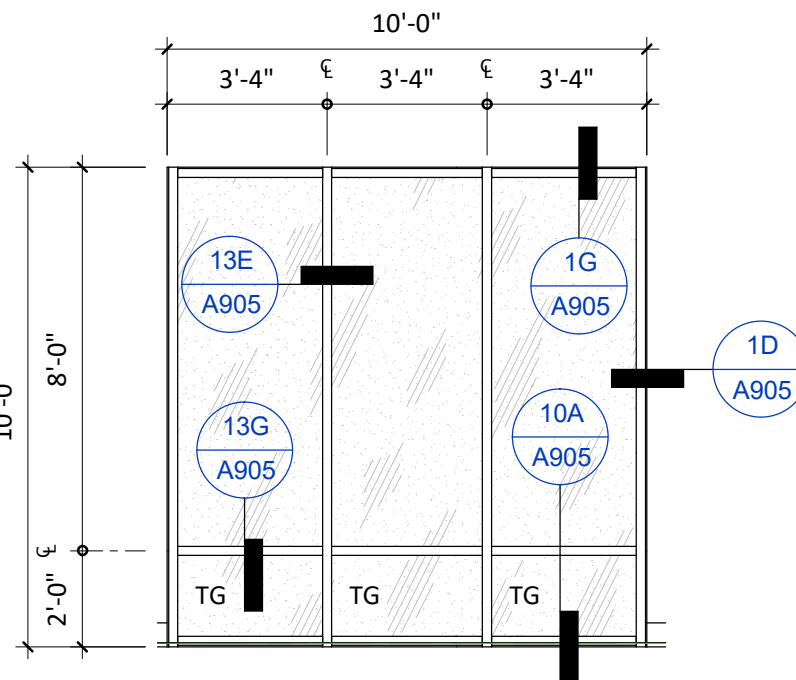
INT. SF ELEVATION SF4
1/4" = 1'-0"



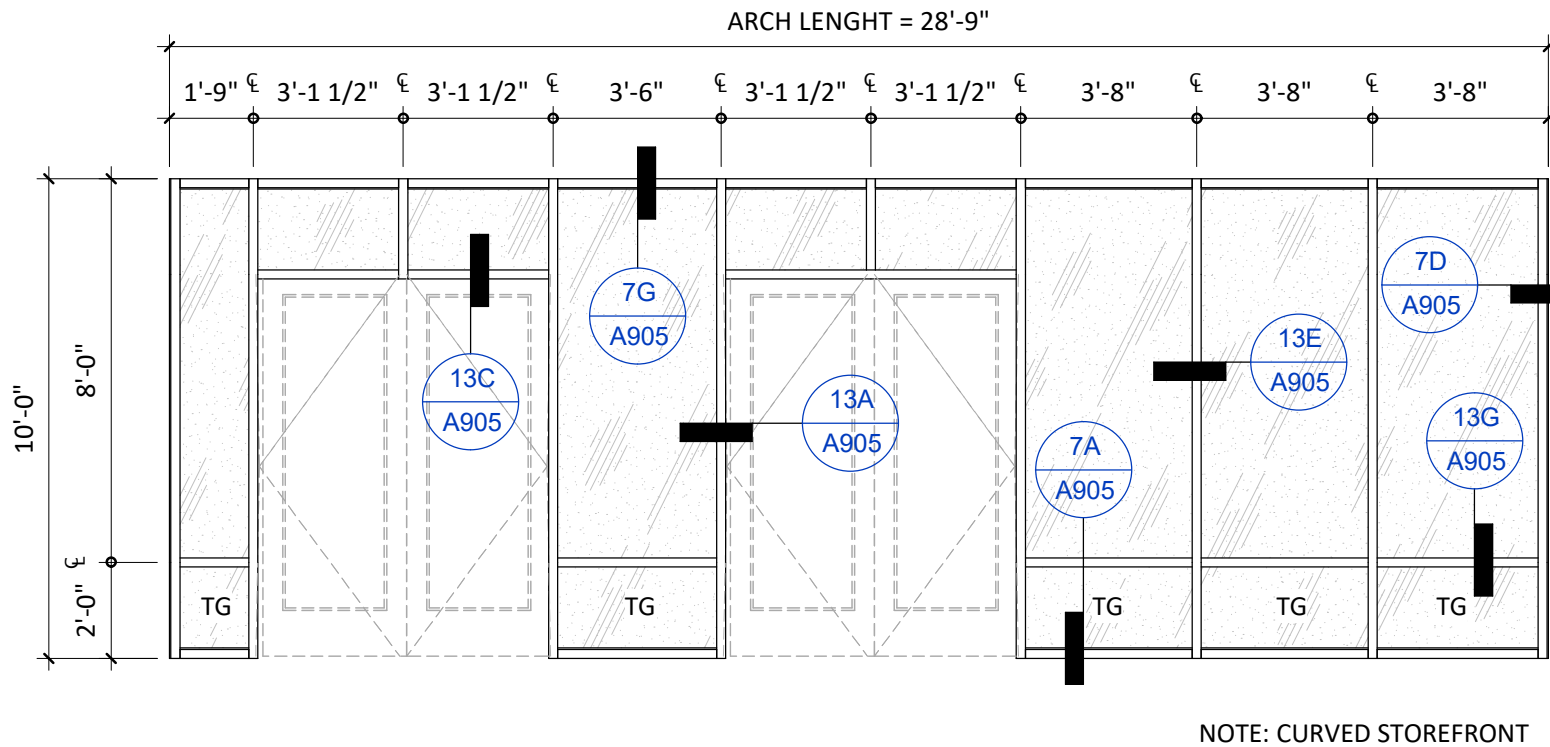
EXT. SF ELEVATION SF3
1/4" = 1'-0"



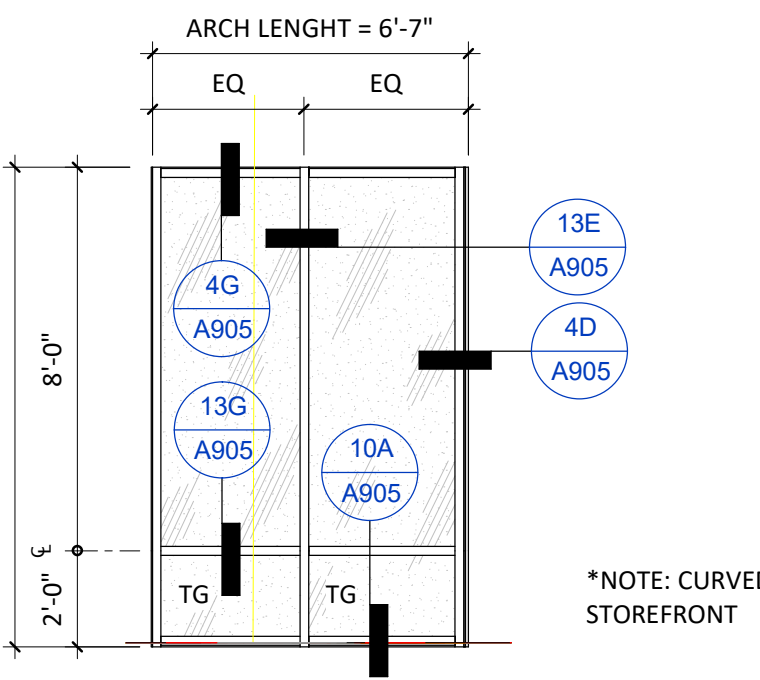
EXT. SF ELEVATION SF6
1/4" = 1'-0"



EXT. SF ELEVATION SF2
1/4" = 1'-0"



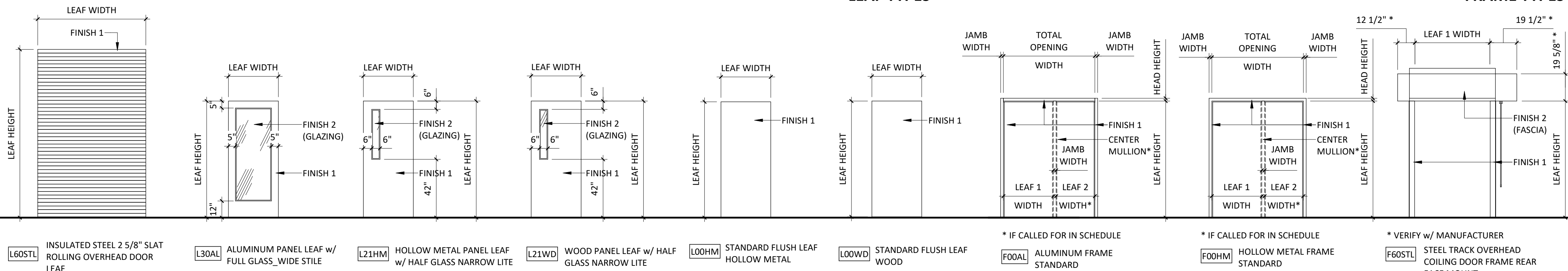
INT. SF ELEVATION SF5
1/4" = 1'-0"



EXT. SF ELEVATION SF1
1/4" = 1'-0"

LEAF TYPES

FRAME TYPES



LEAF AND FRAME TYPES A4
1/4" = 1'-0"

DOOR SCHEDULE

Room Name	MARK	FUNCTION	LEAVES				FRAME				FRAME DIMENSIONS		HEAD DETAIL	JAMB DETAIL	SILL DETAIL	NOTES	HARDWARE SET	MARK
			LEAVES	WIDTH	HEIGHT	TYPE	FINISH 1	FINISH 2	TYPE	FINISH 1	HEAD HEIGHT	JAMB WIDTH						
MAIN VESTIBULE	100A	Exterior	2	3'-0"	7'-10"	L30AL	FAC	TG	F00AL	FAC	0'-2"	0'-2"	5H/A906	2D/A906	1A/A906	DR1, DR3, DR4, DR8	1	100A
MAIN VESTIBULE	100B	Exterior	2	3'-0"	7'-10"	L30AL	FAC	TG	F00AL	FAC	0'-2"	0'-2"	5H/A906	2D/A906	1A/A906	DR1, DR3, DR4, DR8	1	100B
MAIN VESTIBULE	100C	Interior	1	3'-0"	8'-0"	L30AL	FAC	TG	MFR	FAC	0'-0"	0'-0"	13C/A905	13A/A905	1A/A906	DR8	15	100C
MAIN VESTIBULE	100D	Interior	1	3'-0"	8'-0"	L30AL	FAC	TG	MFR	FAC	0'-0"	0'-0"	13C/A905	13A/A905	1A/A906	DR8	15	100D
CART STORAGE	101	Exterior	1	4'-0"	11'-6"	L60STL	FAC	-	F60STL	PT	1'-3"	0'-0"	13A/A906	-	13H/A906	DR3	14	101
MARKET	104A	Interior	2	2'-6"	8'-0"	L21HM	PT	TG	F00HM	PT	0'-2"	0'-2"	4H/A906	4E/A906	4A/A906	DR2, DR9	8	104A
MARKET	104B	Interior	2	3'-0"	8'-0"	L21WD	WD	TG	F00HM	PT	0'-2"	0'-2"	4H/A906	4E/A906	4A/A906	DR2	7	104B
DELI	105	Interior	1	3'-0"	8'-0"	L21WD	WD	TG	F00HM	PT	0'-2"	0'-2"	4H/A906	4E/A906	4A/A906	DR2, DR9	9	105
PREP KITCHEN	106	Interior	1	3'-8"	8'-0"	L21HM	PT	TG	F00HM	PT	0'-2"	0'-2"	7H/A906	7E/A906	7A/A906	DR2, DR5, DR10	9.1	106
OFFICE	109	Interior	1	3'-0"	8'-0"	L00WD	WD	-	F00HM	PT	0'-2"	0'-2"	4H/A906	4E/A906	4A/A906	DR9	12	109
R.R.	110	Interior	1	3'-0"	8'-0"	L00WD	WD	-	F00HM	PT	0'-2"	0'-2"	4H/A906	4E/A906	4A/A906	DR2	13	110
IT	111	Interior	1	3'-0"	8'-0"	L00WD	WD	-	F00HM	PT	0'-2"	0'-2"	4H/A906	4E/A906	4A/A906	DR9	11	111
RECEIVING AND STORAGE	112A	Exterior	1	3'-0"	8'-0"	L00HM	PT	-	F00HM	PT	0'-4"	0'-2"	10H/A906	10E/A906	10A/A906	DR2, DR3, DR4, DR5, DR10	4	112A
RECEIVING AND STORAGE	112B	Exterior	1	10'-0"	10'-0"	L60STL	FAC	-	F60STL	PT	1'-3"	0'-0"	13H/A906	13E/A906	13A/A906	DR3	14	112B
ELECTRICAL ROOM	115	Exterior	1	3'-0"	8'-0"	L00HM	PT	-	F00HM	PT	0'-4"	0'-2"	10H/A906	10E/A906	10A/A906	DR3, DR5, DR10	3	115
MECH. ROOM	116	Interior	1	3'-0"	7'-0"	L00WD	WD	-	F00HM	PT	0'-2"	0'-2"	4H/A906	4E/A906	4A/A906	DR9	11	116
STORAGE	117	Exterior	1	7'-4"	10'-0"	L60STL	FAC	-	F60STL	PT	1'-3"	0'-0"	13H/A906	13E/A906	13A/A906	DR3	14	117
VESTIBULE	118	Exterior	2	2'-10"	8'-0"	L21HM	PT	TG	F00HM	PT	0'-4"	0'-2"	10H/A906	10E/A906	10A/A906	DR1, DR2, DR3, DR4, DR5, DR10	2	118
W.R.R.	119	Interior	1	3'-0"	7'-0"	L00WD	WD	-	F00HM	PT	0'-2"	0'-2"	7H/A906	7E/A906	4A/A906	DR2	10	119
M.R.R.	120	Interior	1	3'-0"	7'-0"	L00WD	WD	-	F00HM	PT	0'-2"	0'-2"	7H/A906	7E/A906	4A/A906	DR2	10	120
JANITOR	121	Interior	1	3'-0"	8'-0"	L00WD	PT	-	F00HM	PT	0'-2"	0'-2"	4H/A906	4E/A906	10A/A906	DR9, DR10	11	121
DEMONSTRATION KITCHEN	122A	Interior	1	3'-0"	8'-0"	L21HM	PT	TG	F00HM	PT	0'-2"	0'-2"	4H/A906	4E/A906	4A/A906	DR2	9	122A
DEMONSTRATION KITCHEN	122B	Exterior	2	2'-10"	8'-0"	L21HM	PT	TG	F00HM	PT	0'-4"	0'-2"	10H/A906	10E/A906	10A/A906	DR1, DR2, DR3, DR4, DR5, DR10	5	122B
DEMONSTRATION KITCHEN	122C	Exterior	2	2'-10"	8'-0"	L21HM	PT	TG	F00HM	PT	0'-4"	0'-2"	10H/A906	10E/A906	10A/A906	DR1, DR2, DR3, DR5, DR10	5	122C

NOTE: REFER TO SPEC 08 71 00 FOR DOOR HARDWARE SCHEDULE

GENERAL SHEET NOTES

- ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL BE ACCESSIBLE BY THE HANDICAPPED.
- MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED THE FOLLOWING:
 - INTERIOR DOORS: 5 POUNDS
 - EXTERIOR DOORS: 8.5 POUNDS
 - FIRE DOORS: 15 POUNDS
- PROVIDE AND INSTALL HARDWARE AS SPECIFIED. ALL DOORS SHALL OPEN FROM INSIDE WITHOUT A KEY OR SPECIAL KNOWLEDGE.
- DOOR OPENING NOT LOCATED BY DIMENSION OR WHERE +/- DIMENSIONS ARE SHOWN, SHALL BE CENTERED IN WALLS AS SHOWN OR LOCATED 4" FROM FINISH WALL TO FINISH JAMB UNLESS OTHERWISE NOTED.
- PROVIDE ALL EXTERIOR DOORS WITH 18 GA DRIP FIXED/WELDED CONTINUOUSLY AT FRAME.
- PROVIDE ALL EXTERIOR DOORS WITH WEATHER STRIPPING AND AUTOMATIC SELF-CLOSING BOTTOM TRIM.
- DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP A OR E OCCUPANCY SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS PANIC HARDWARE OR FIRE EXIT HARDWARE.
- ELECTRICAL ROOMS WITH EQUIPMENT RATED 1,200 AMPERES OR MORE AND OVER 6 FEET WIDE THAT CONTAIN OVERCURRENT DEVICES, SWITCHING DEVICES OR CONTROL DEVICES WITH EXIT OR EXIT ACCESS DOORS SHALL BE EQUIPPED WITH PANIC HARDWARE OR FIRE EXIT HARDWARE. THE DOOR SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL.
- REFERENCE TO MECHANICAL PLAN FOR UNDER CUT AT DOORS. SEE MECHANICAL SCHEDULES FOR EXHAUST REQUIREMENTS.

GLAZING DOOR / WINDOW FRAME NOTES

- FIELD VERIFY WINDOW AND DOOR OPENING PRIOR TO FABRICATION.
- ALL EXTERIOR GLAZING AT DOORS AND WINDOWS TO BE CLEAR 1" INSULATING GLAZING.
- GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENING WITHIN 18 INCHES OF ADJACENT FLOOR SHALL BE APPROVED FOR IMPACT HAZARD.
- ALL GLASS IN DOORS, SIDELITES, OR AS INDICATED ON DRAWINGS SHALL BE SAFETY GLAZING AS PER IBC 2406.3.
- DOORS & WINDOWS WHEN CONDITIONED AND UNCONDITIONED SPACES SHALL BE DESIGNED TO LIMIT AIR LEAKAGE INTO OR FROM THE BUILDING ENVELOPE. COORDINATION WITH MECHANICAL DRAWINGS.
- ALL GLAZING WITHIN 40" OF ANY LOCKING HARDWARE DEVICE SHALL BE SAFETY/TEMPERED GLAZING. (TG)

DOOR LEGEND:

HM	HOLLOW METAL	PT	PAINT FINISH
MFR	PER MANUFACTURER	WD	WOOD STAIN GRADE
SG	SAFETY GLAZING	PI	POLYISOCYANURATE
PY	POLYURETHANE	PC	PARTICLE BOARD CORE
AL	ALUMINUM	FAC	FACTORY FINISH
MB	MINERAL BOARD	TS	TUBE STEEL (2X2 SQ.)
SA	STEEL ANGLE	ST	STEEL
TG	TEMPERED GLAZING		

COMMENTS/NOTES:

- DR1 DOOR GLAZING TO BE INSULATED.
DR2 PROVIDE AUTOMATIC DOOR CLOSER.
DR3 PROVIDE SOUND WEATHER STRIPPING PROOF GASKETS AT DOOR ASSEMBLY. SEE SPECS. USE WEATHER-STRIPPING FOR EXTERIOR CONDITIONS.
DR4 PROVIDE PANIC HARDWARE/MECHANISM
DR5 PROVIDE AUTOMATIC DOOR BOTTOM OVER THRESHOLD OR FINISH FLOOR AS OCCURS.
DR6 PROVIDE KEY PAD TO OPEN DOOR, COORDINATE WITH HARDWARE SPECIFICATION
DR7 PROVIDE DOOR HOLDERS.
DR8 PROVIDE MANUAL MEANS OF EGRESS AT POWER FAILURE. FORCE TO SET DOOR IN MOTION NOT TO EXCEED 30 POUNDS. COMPLY WITH BHMA A156.10
DR9 PROVIDE DOOR STOP AT WALL OR FLOOR
DR10 PROVIDE DOOR THRESHOLD. SEE DOOR AND WINDOW DETAILS.

HARDWARE FINISH LEGEND:

26D	SATIN CHROME	AL	ALUMINUM
32D	SATIN STAINLESS STEEL	BL	BLACK
626	SATIN CHROMIUM PLATED	CL	CLEAR
630	SATIN STAINLESS STEEL	US28	ALUMINUM - CLEAR
689	ALUMINUM PAINTED		ANODIZED



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SEAL

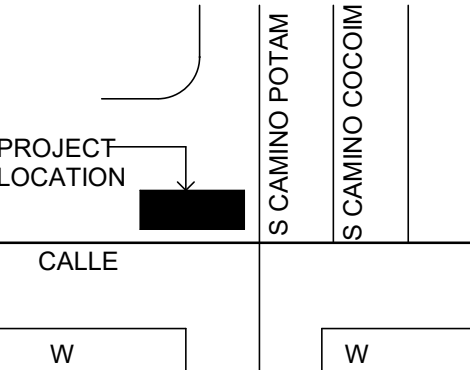


Pascua Yaqui Tribe

Micro Market

7490 S CAMINO DE OESTE
TUCSON, AZ 85757

5010 W CALLE TORM
TUCSON, AZ 85757



REVISION	NUMBER	DESCRIPTION	DATE
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SHEET TITLE

DOOR AND WINDOW SCHEDULE

DATE 01.20.2025
SHEET

A601

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L														L
K														K
J														J
H														H
C														C
F														F
E														E
D														D
C														C
B														B
A														A



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VICINITY

REVISION	NUMBER	DESCRIPTION	DATE

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SHEET TITLE

FINISH SCHEDULES

DATE 01.20.2025
SHEET

A602

ROOM FINISH SCHEDULE

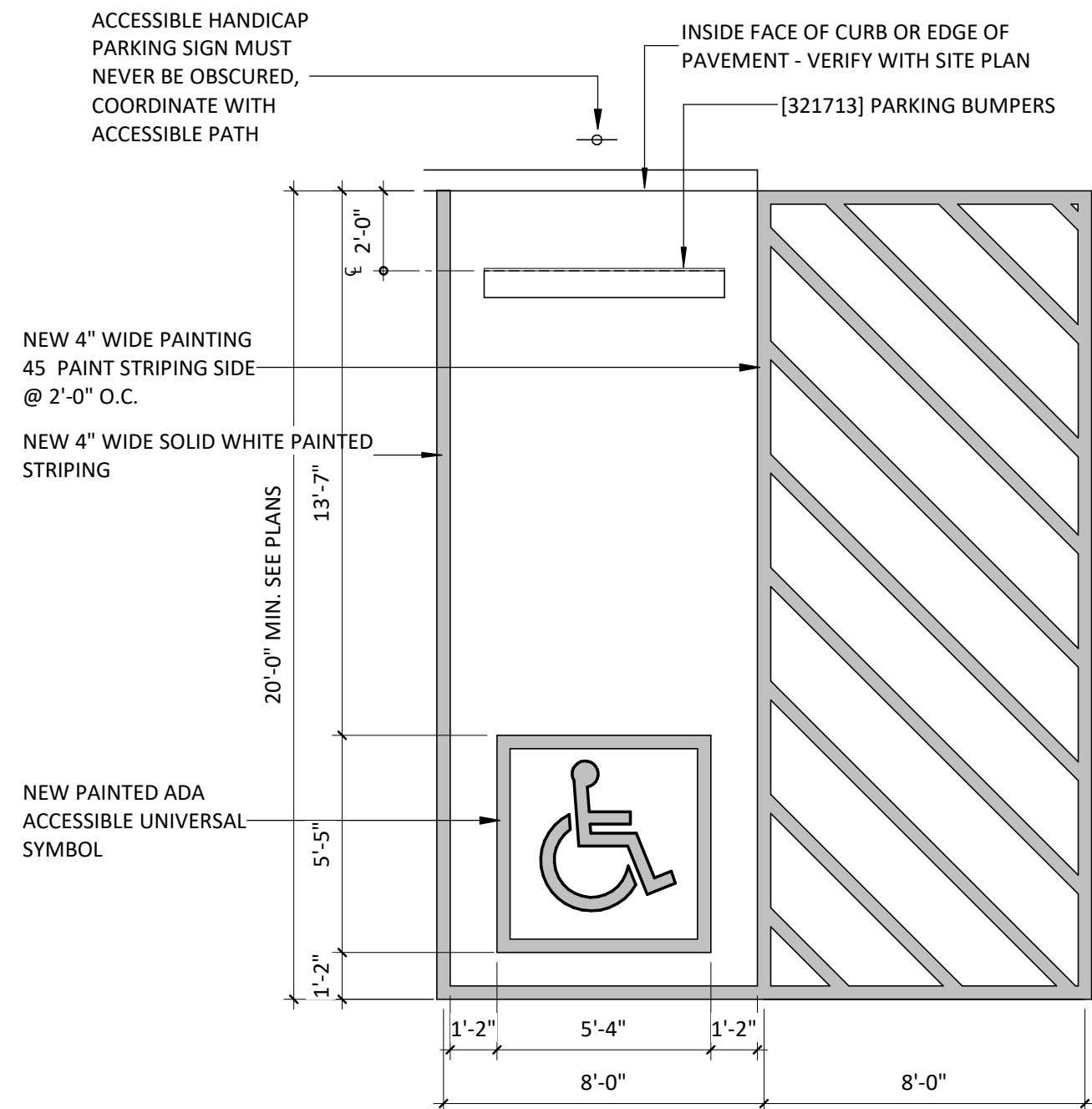
MAIN VESTIBULE	100	1,137.4 SF	S1	F2	B2	W1	W1	W1	W1	C14	R4
CART STORAGE	101	191.02 SF	S1	F0	B0	W3	W7	W3	W3	C0	
GRAB N GO	102	344.64 SF	S1	F2	B2	W2/W4	W2	W2	W2	C10/C13	R4
CUSTOMER SERVICE	103	94.7 SF	S1	F2	B2	W2	W2	W2	W2	C4	R1
MARKET	104	4,722.78 SF	S1	F2	B2	W2	W2	W2	W2	C10/C13	R1, R4, R8
DELI	105	166.22 SF	S1	F2	B2	W2	W2	W2	W2	C13	R4, R5
PREP-KITCHEN	106	883.92 SF	S1	F3	B4	W5/W8	W5	W5	W5	C8	R1, R5
WALK-IN FRIDGE	107	161.2 SF	S1	F1	B0	W0	W0	W0	W0	C9	
WALK-IN COOLER	108	72.4 SF	S1	F1	B0	W0	W0	W0	W0	C9	
OFFICE	109	130.37 SF	S1	F2	B1	W1	W1	W1	W1	C7	
R.R.	110	64.47 SF	S1	F1	B3	W4	W4	W4	W4	C4	R2,R3, R5, R6, R7
IT	111	105.77 SF	S1	F1	B1	W1	W1	W1	W1	C4	
RECEIVING AND STORAGE	112	1,253.36 SF	S1	F1	B1	W1	W1	W1	W1	C10	
WALK-IN FREEZER	113	102.3 SF	S1	F1	B0	W0	W0	W0	W0	C9	
WALK-IN REFRIGERATOR	114	301.92 SF	S1	F1	B0	W0	W0	W0	W0	C9	
ELECTRICAL ROOM	115	102.44 SF	S1	F1	B1	W1	W8	W1	W1	C10	
MECH. ROOM	116	70.31 SF	S1	F1	B1	W1	W8	W8	W1	C10	
STORAGE	117	231.67 SF	S1	F1	B1	W1	W1	W8	W1	C10	
VESTIBULE	118	287.94 SF	S1	F2	B2	W1	W1	W1	W1	C4	
W.R.R.	119	230.53 SF	S1	F2	B3	W4/W9	W4/W9	W4/W9	W4/W9	C4	R2,R3, R5, R6, R7
M.R.R.	120	232.37 SF	S1	F2	B3	W4/W9	W4/W9	W4/W9	W4/W9	C4	R2,R3, R5, R6, R7
JANITOR	121	115.05 SF	S1	F1	B1	W1	W1	W1	W1	C10	R5, R8
DEMONSTRATION KITCHEN	122	944.19 SF	S1	F2	B2	W1/W4	W1/W4	W1/W4	W1/W4	C7	R1, R5
PATIO	123	640.56 SF	S1	F0	B0	W3	W3	W7	W7	C0	

FLOOR SUB.	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH
S1 CONCRETE SLAB	F0 CONCRETE SLAB	B0 NONE	W0 FACTORY FINISH	C0 NONE - EXPOSED STRUCTURE ABOVE
S2 NOT USED	F1 SEALED CONCRETE SLAB	B1 4" RUBBER COVE BASE	W1 LEVEL 4 PRIMED AND PAINTED	C1 LEVEL 3 + ORANGE PEEL TEXTURE
S3 NOT USED	F2 800 GRITT GRIND POLISHED CONCRETE SEALED	B2 6" RUBBER COVE BASE	W2 LEVEL 5 PRIMED AND PAINTED	C2 LEVEL 3 PRIMED AND PAINTED
	F3 EPOXY FLOORING WITH GRANULES	B3 6" CERAMIC TILE COVE BASE (CT-1)	W3 WESTERN 1-KOTE STUCCO SYSTEM	C3 LEVEL 4 + LIGHT ORANGE PEEL TEXTURE
	F4 NOT USED	B4 6" EPOXY COVE BASE WITH GRANULES	W4 CERAMIC TILE (CT-1)	C4 LEVEL 4 PRIMED AND PAINTED
	F5 NOT USED	B5 NOT USED	W5 GLASS FIBER REINFORCED PANELS	C5 LEVEL 5 PRIMED AND PAINTED
	F6 NOT USED	B6 NOT USED	W6 STAINLESS STEEL WALL PANELS	C6 2'X4' VYNIL FACED CEILING TILE
	F7 NOT USED	B7 NOT USED	W7 PERFORATED METAL PANELS	C7 2'X2' ACOUSTICAL CEILING TILE
	F8 NOT USED	B8 NOT USED	W8 SEALED C.M.U.	C8 2'X2' VYNIL FACED CEILING TILE
	F9 NOT USED	B9 NOT USED	W9 MOSAIC ACCENT TILE (CT-2)	C9 FACTORY FINISH
	F10 NOT USED	B10 NOT USED	W10 NOT USED	C10 PAINTED EXPOSED STRUCTURE ABOVE
	F11 NOT USED	B11 NOT USED	W11 NOT USED	C11 PERFORATED METAL PANELING
	F12 NOT USED	B12 NOT USED	W12 NOT USED	C12 METAL CEILING
			W13 NOT USED	C13 SOLID WOOD PANELS
			W14 NOT USED	C14 LINEAR BAFFLE CEILING

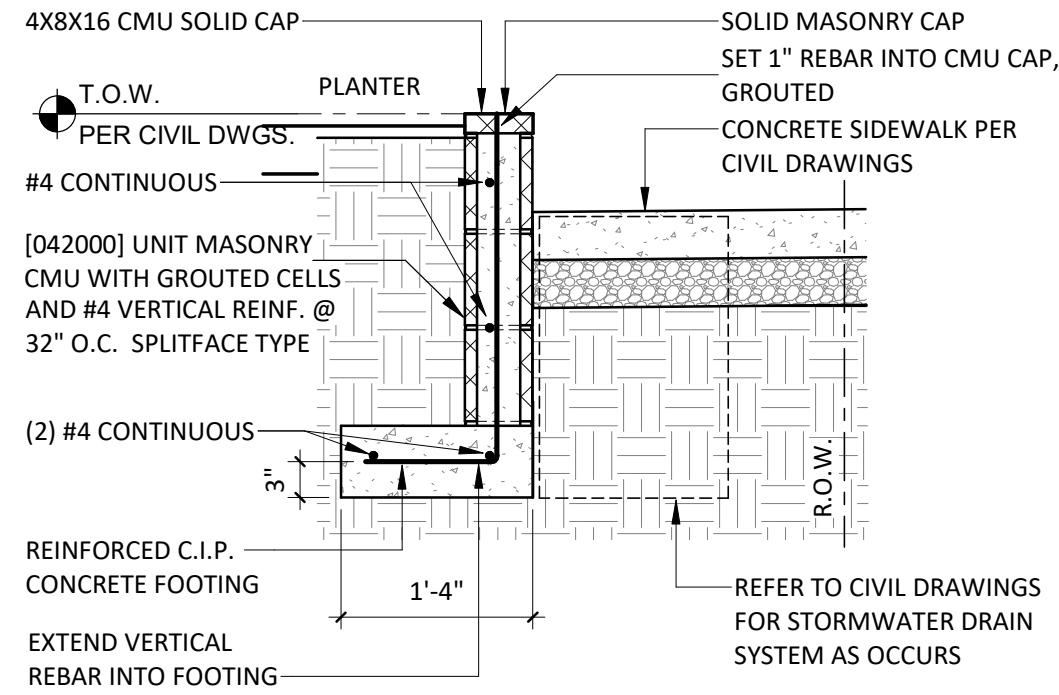
- NOTE:
1. COORDINATE INTERIOR ELEVATIONS, CEILING PLANS, FLOOR PLANS TO IDENTIFY ANY DIFFERENCE IN WALL TYPES AND MATERIALS.
2. THIS SCHEDULE IS BASED ON THE OVERALL FINISH/MATERIAL APPLIED TO THE SPECIFIC AREA.
3. COORDINATE WITH SPECIFICATIONS.

FINISH SCHEDULE REMARKS

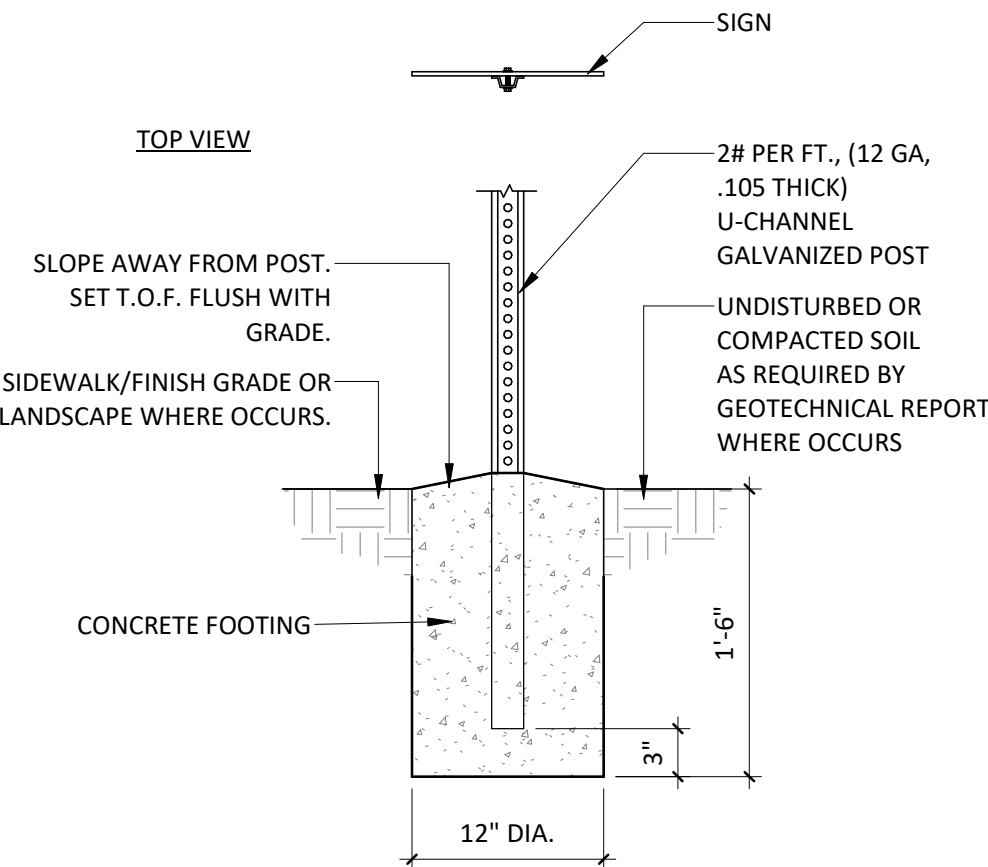
R1 SEE INTERIOR ELEVATIONS FOR ARCHITECTURAL CASEWORK & EQUIPMENT MOUNTING BRACKETS.
R2 PROVIDE ALL BLOCKING AS REQUIRED FOR ALL TOILET ACCESSORIES, ARCHITECTURAL CASEWORK, & EQUIPMENT (INCLUDING N.I.C. EQUIPMENT).
R3 PROVIDE TILE FINISH BEHIND ALL TOILET ROOM ACCESSORIES AS OCCURS, U.N.O.
R4 SEE REFLECTED CEILING PLAN FOR SOFFIT HEIGHTS & CONFIGURATIONS AS OCCUR.
R5 PROVIDE WATER RESISTANT GB AT ALL WET AREAS & 36" AROUND ANY PLUMBING PENETRATION.
R6 SEE INTERIOR ELEVATIONS AND ENLARGED PLANS FOR TYPICAL WALL TILE PATTERN.
R7 CERAMIC TILE GROUT JOINTS SEALED
R8 PAINT CEILING ELEMENT PER SCHEDULE NUMBER



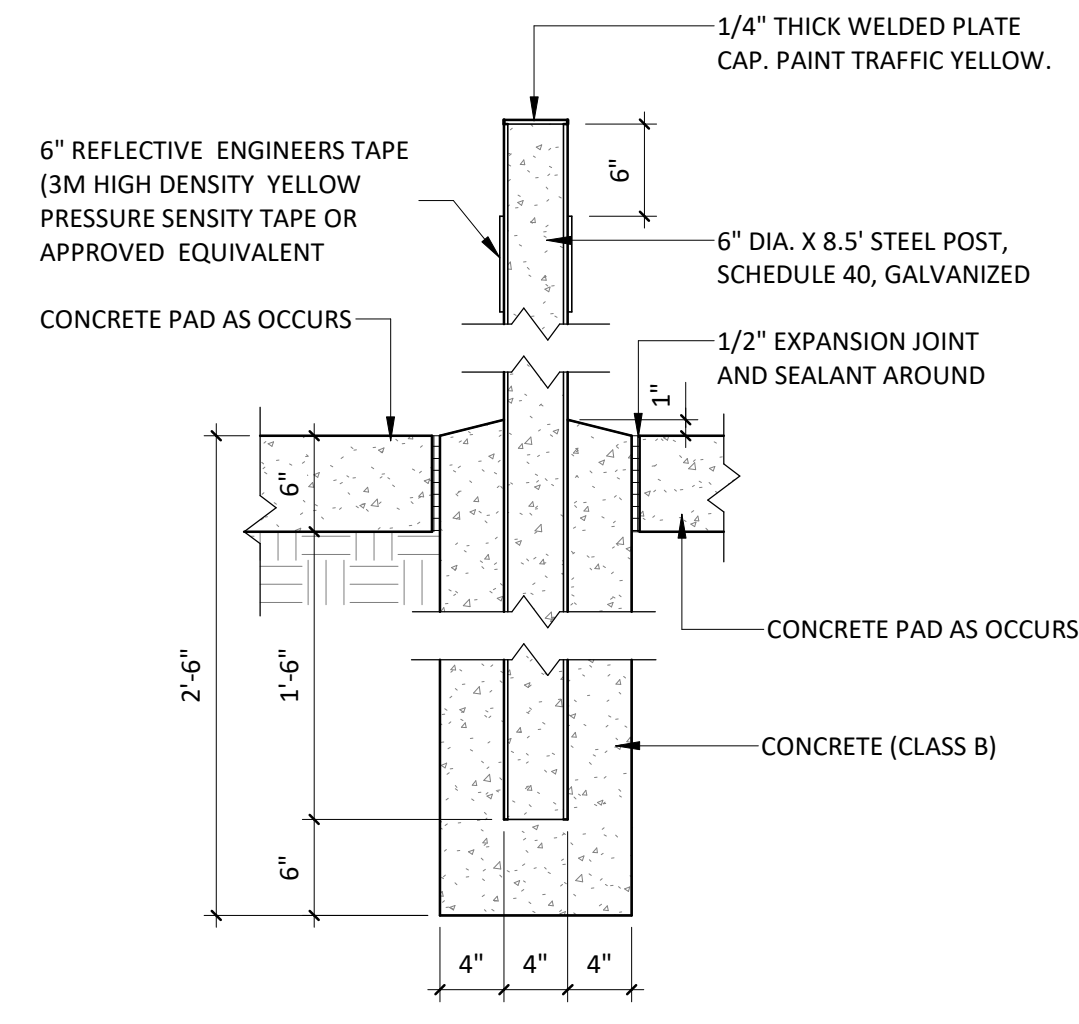
ADA PARKING STALL H10
1/4" = 1'-0"



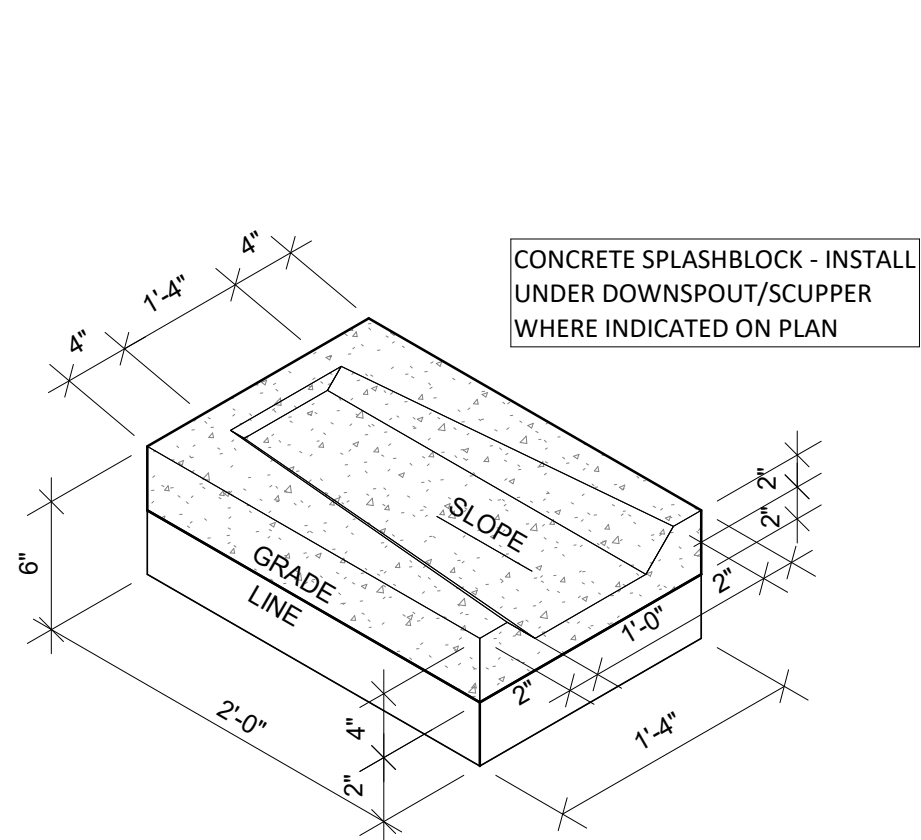
CMU PLANTER DETAIL H7
3/4" = 1'-0"



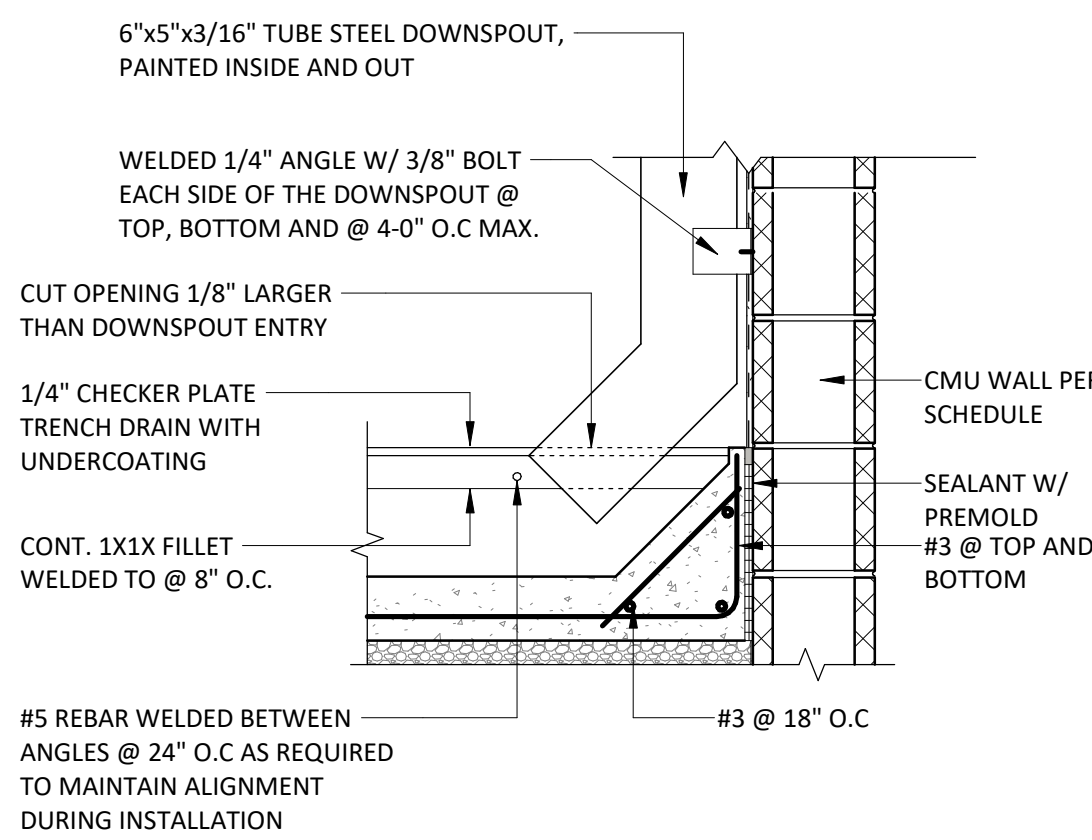
TYP. POST AND FOOTING H4
1" = 1'-0"



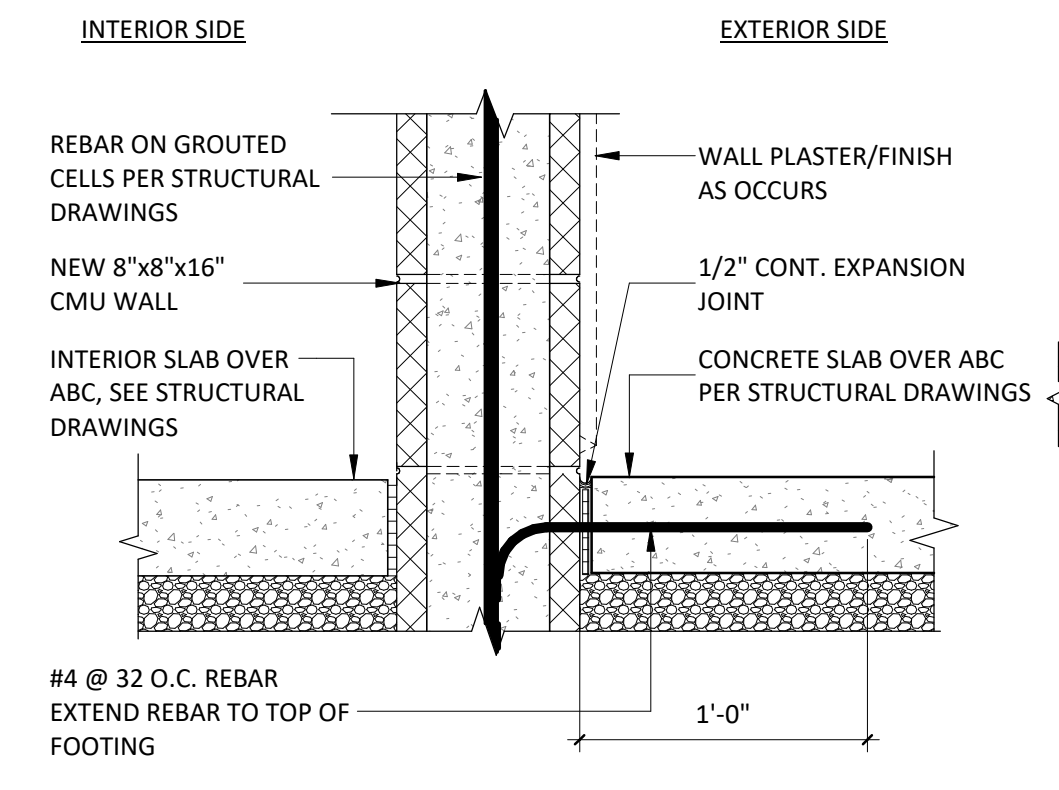
PIPE BOLLARD H1
1" = 1'-0"



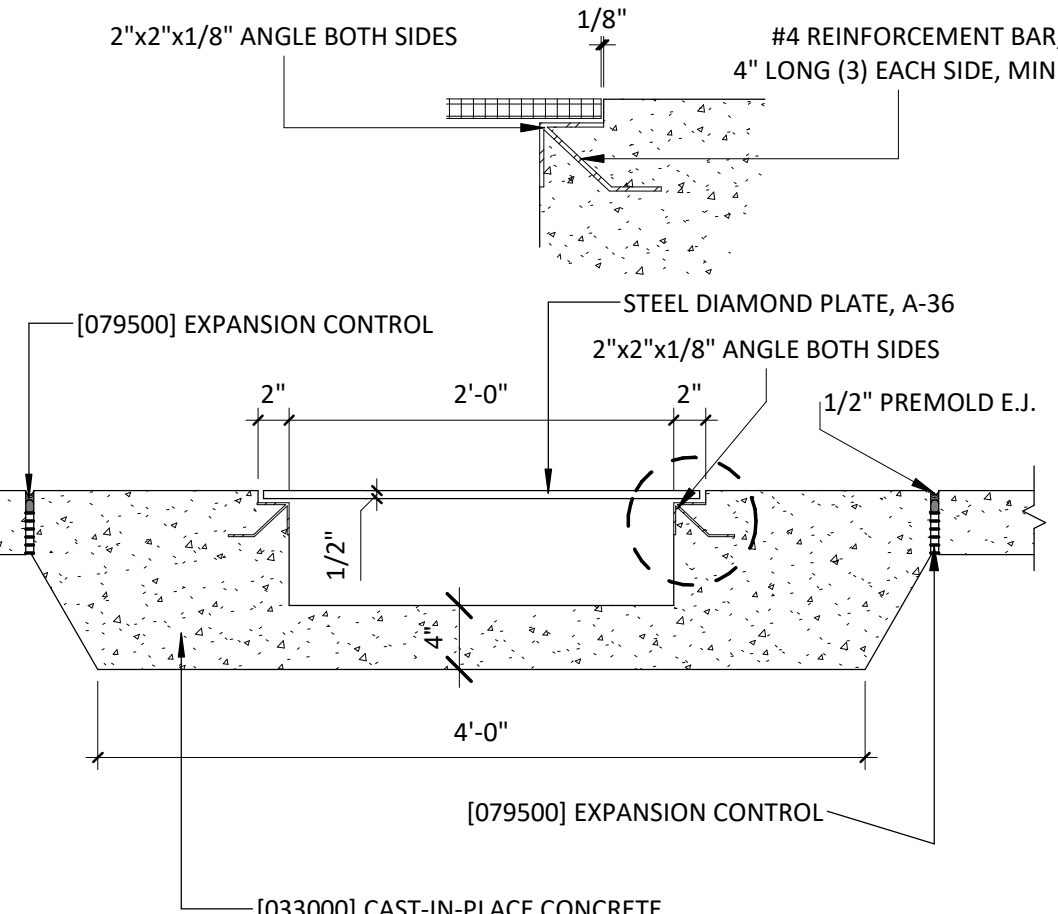
TYP. CONCRETE SPLASH BLOCK D13
1" = 1'-0"



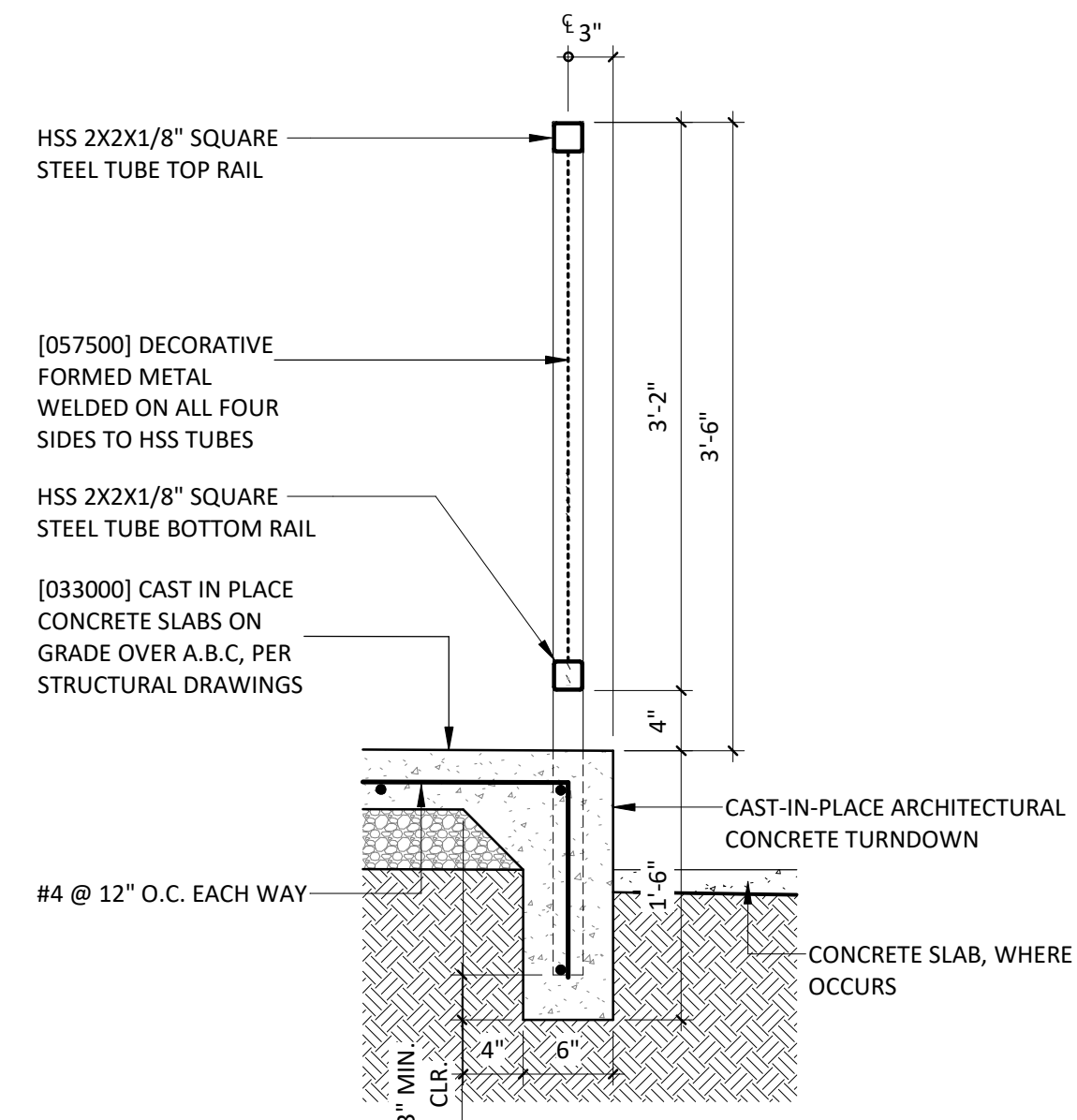
DOWNSPOUT @ TRENCH D10
1" = 1'-0"



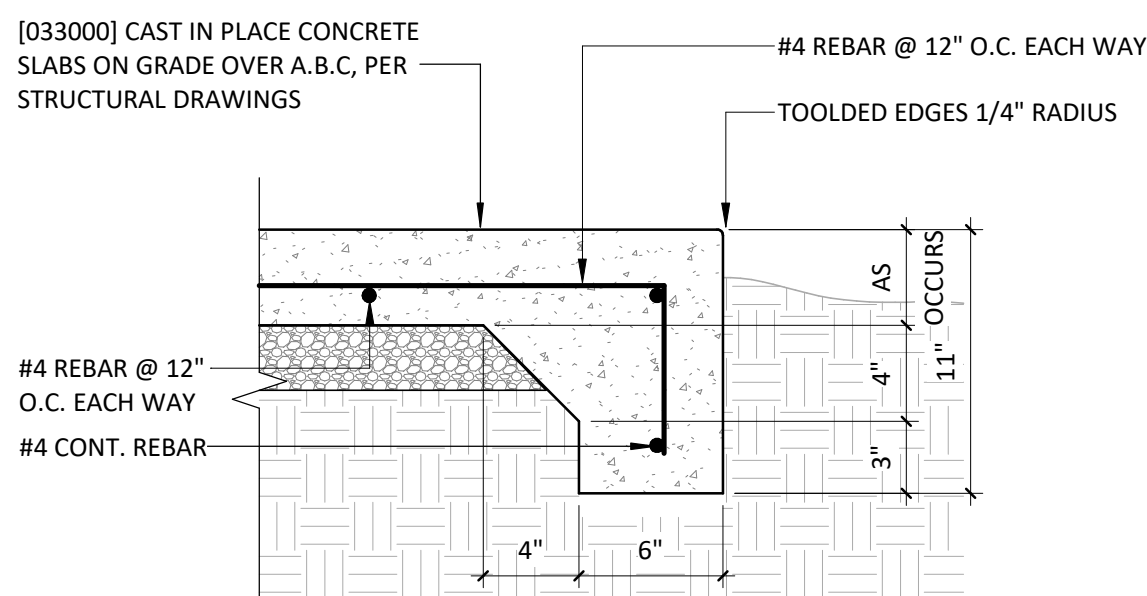
TYP. SIDEWALK @ STEM WALL D7
1 1/2" = 1'-0"



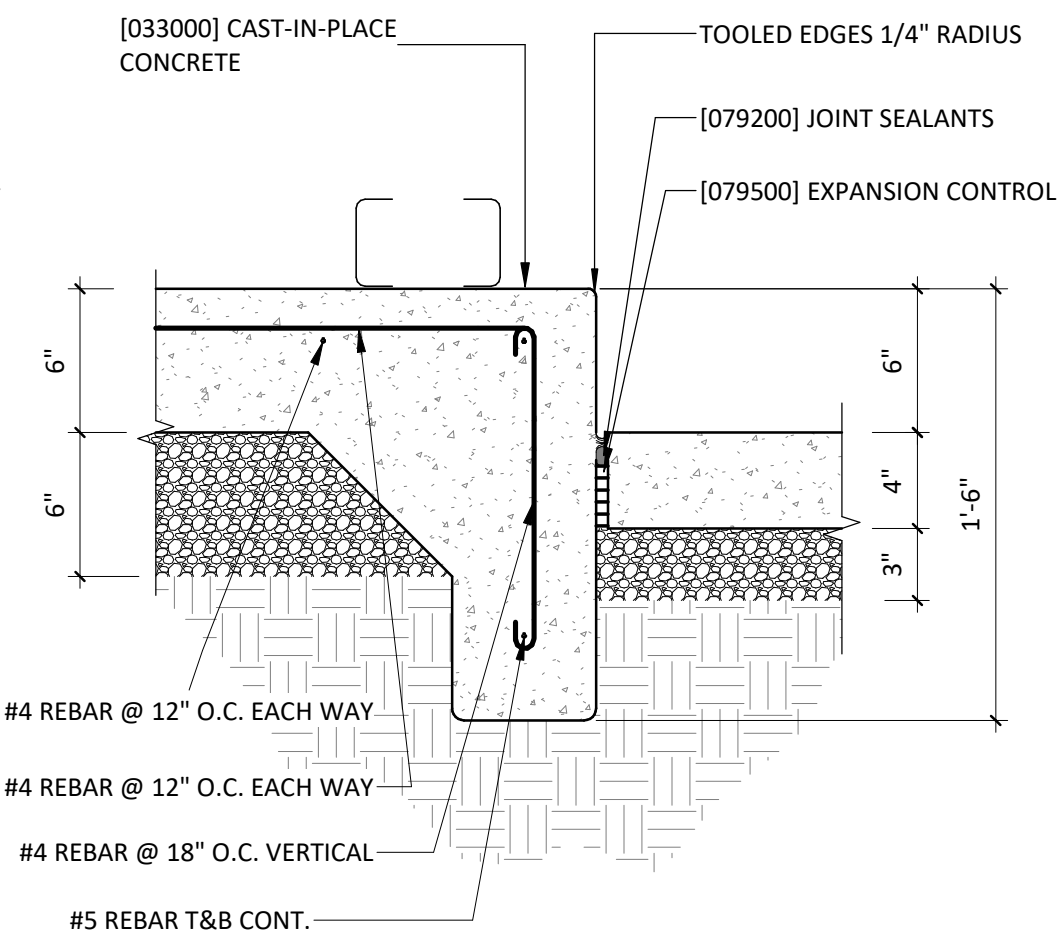
SCUPPER UNDER SIDEWALK D4
1" = 1'-0"



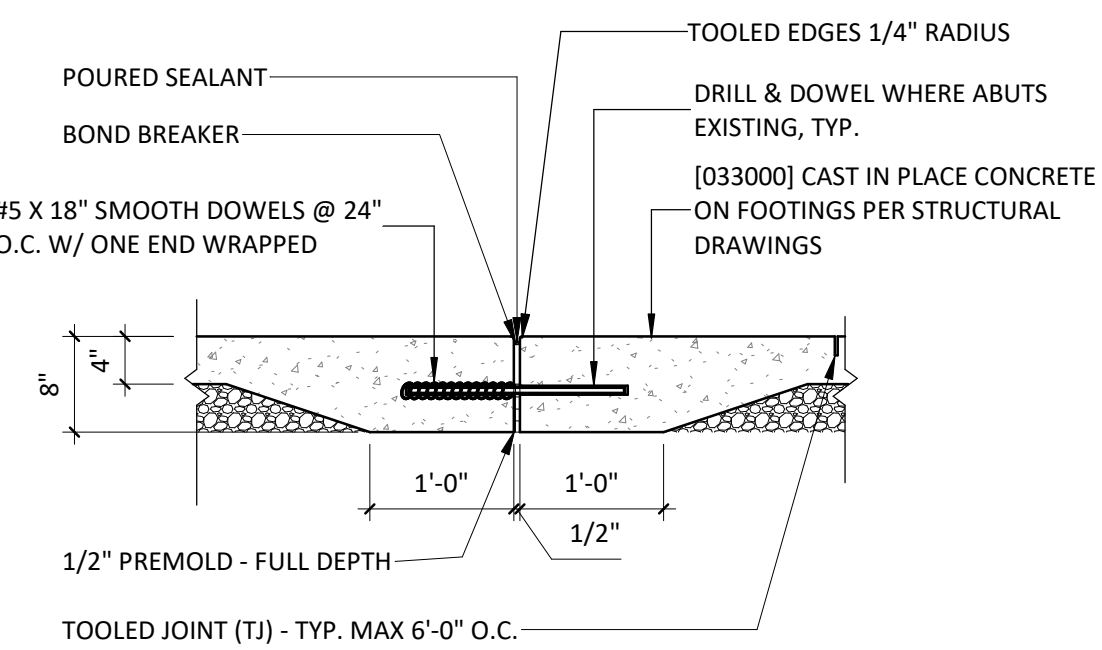
GUARDRAIL DETAIL AT PLAZA D1
1" = 1'-0"



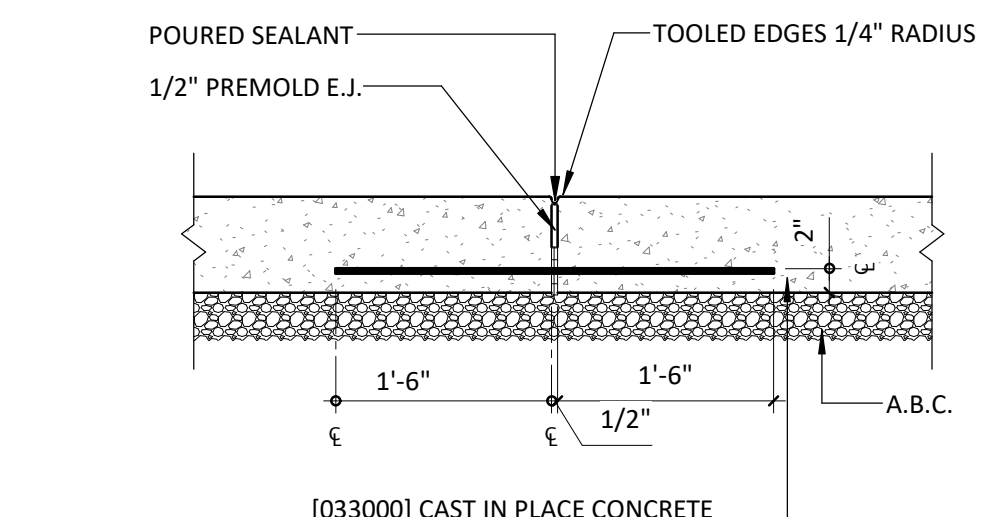
CONCRETE SLAB EDGE A13
1 1/2" = 1'-0"



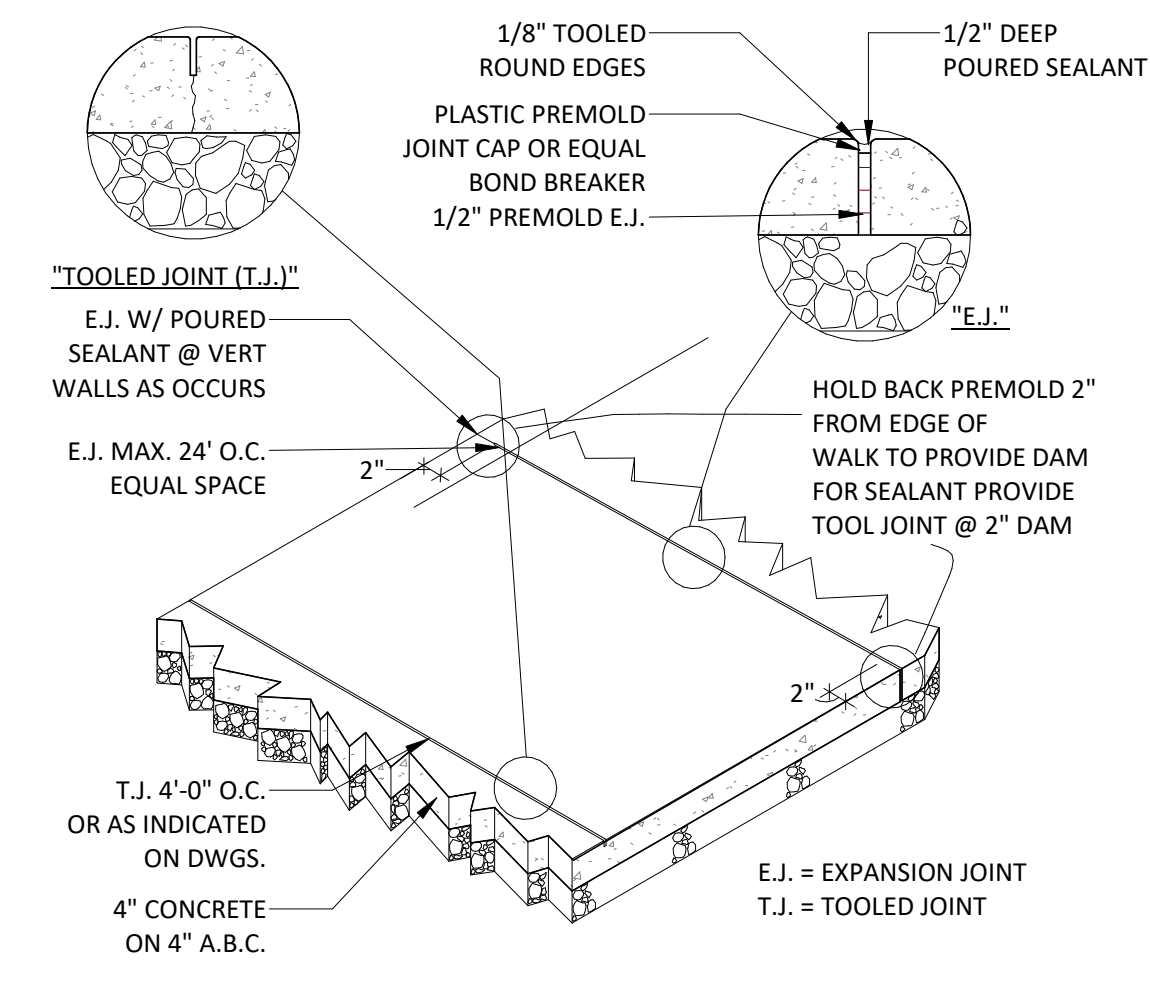
TYP. HOUSEKEEPING PAD A10
1 1/2" = 1'-0"



NEW TO EXISTING TYP. SIDEWALK (EJ) A7
3/4" = 1'-0"



TYP. CONSTRUCTION JOINT NEW SIDEWALKS A4
3/4" = 1'-0"



SIDEWALK JOINT A1
1/2" = 1'-0"

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Pascua Yaqui Tribe

Micro Market



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5010 W CALLE TORIM
TUCSON, AZ 85757

OWNER INFORMATION		
PROJECT LOCATION	S CAMINO POTAM	S CAMINO COCOM
CALLE TORIM		
W TAROOK		W TAROOK

VICINITY

REVISION	DESCRIPTION	DATE
NUMBER		

PROJECT NO. 23C-001

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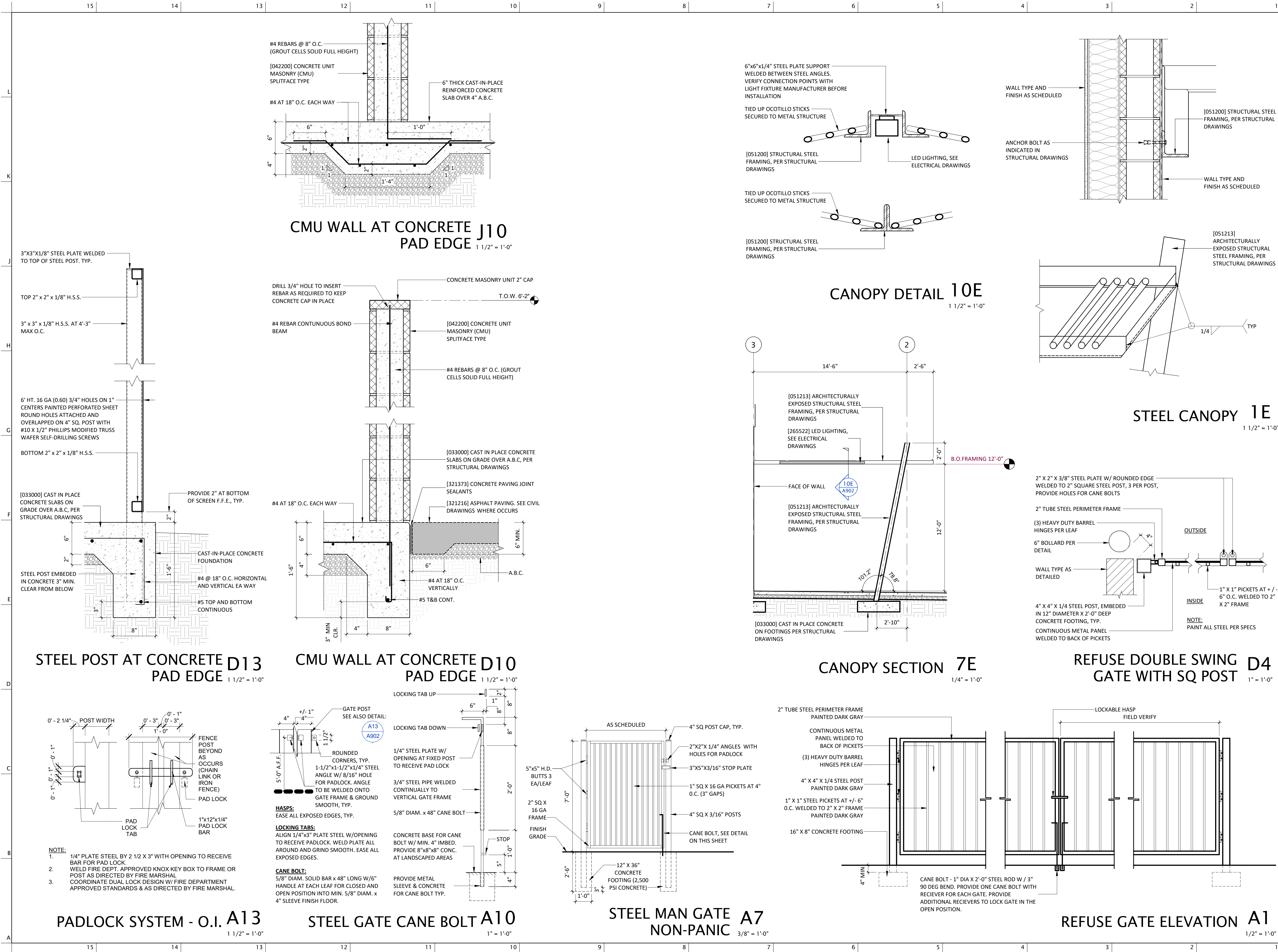
SHEET TITLE

SITE DETAILS

DATE 01.20.2025

SHEET

A901



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REGISTERED ARCHITECT
45961
CARLOS ANTONIO MURRIETA
AZ 11-001070-0008
U.S.A.

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TUCSON, AZ 85757

PROJECT

S VATGUE

PROJECT LOCATION

CALLE TORIM

W TAROOK

S CAMINO POTAM

S CAMINO COCOM

W TAROOK

VICINITY

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NUMBER

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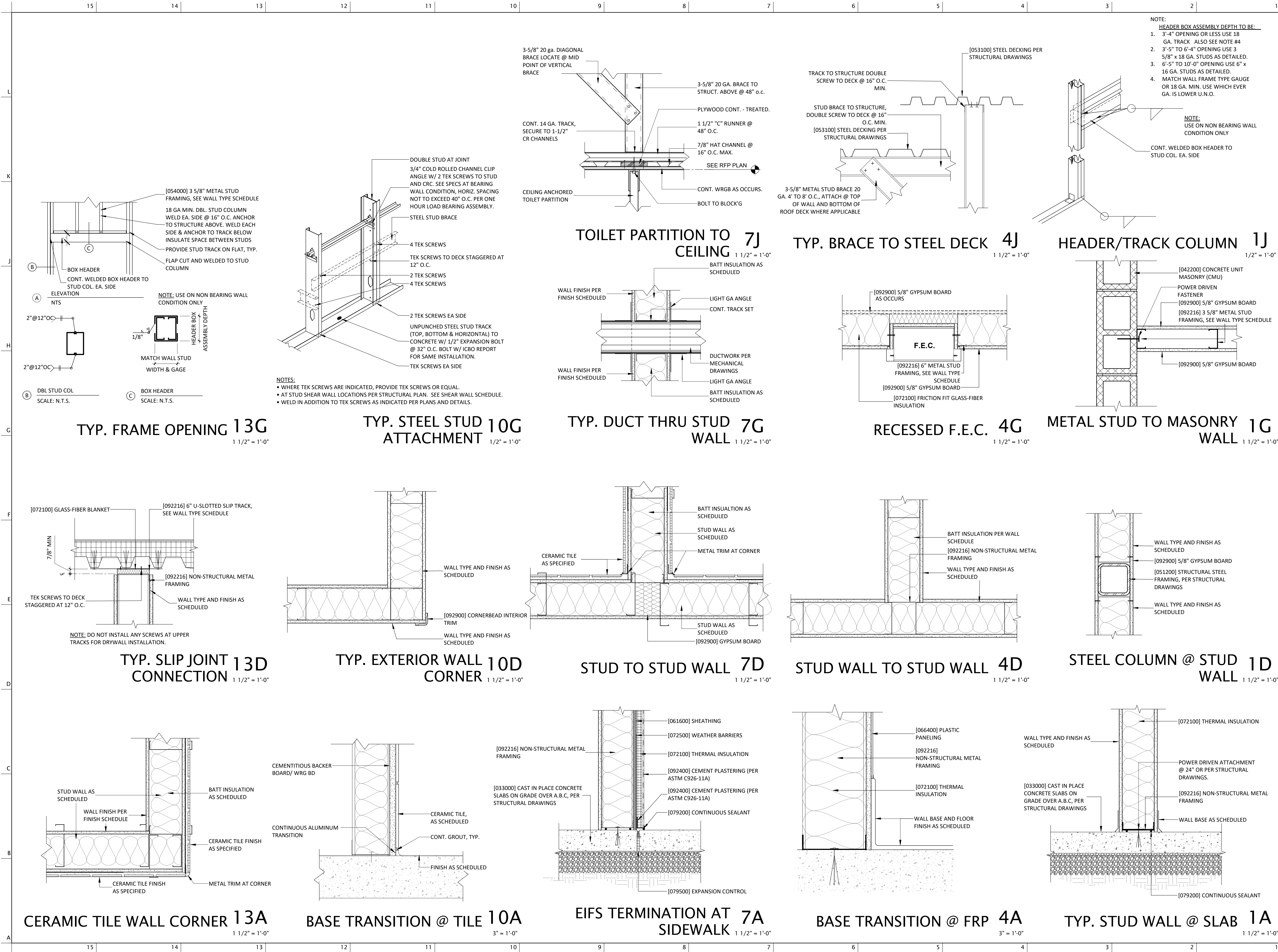
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DATE

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SHEET

A902



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OWNER INFORMATION

PROJECT: PASCUA YACUI TRIBE MICRO MARKET

LOCATION: CALLE TORIM

W TARIK

W TARIK

VICINITY

REVISION	NUMBER	DESCRIPTION	DATE

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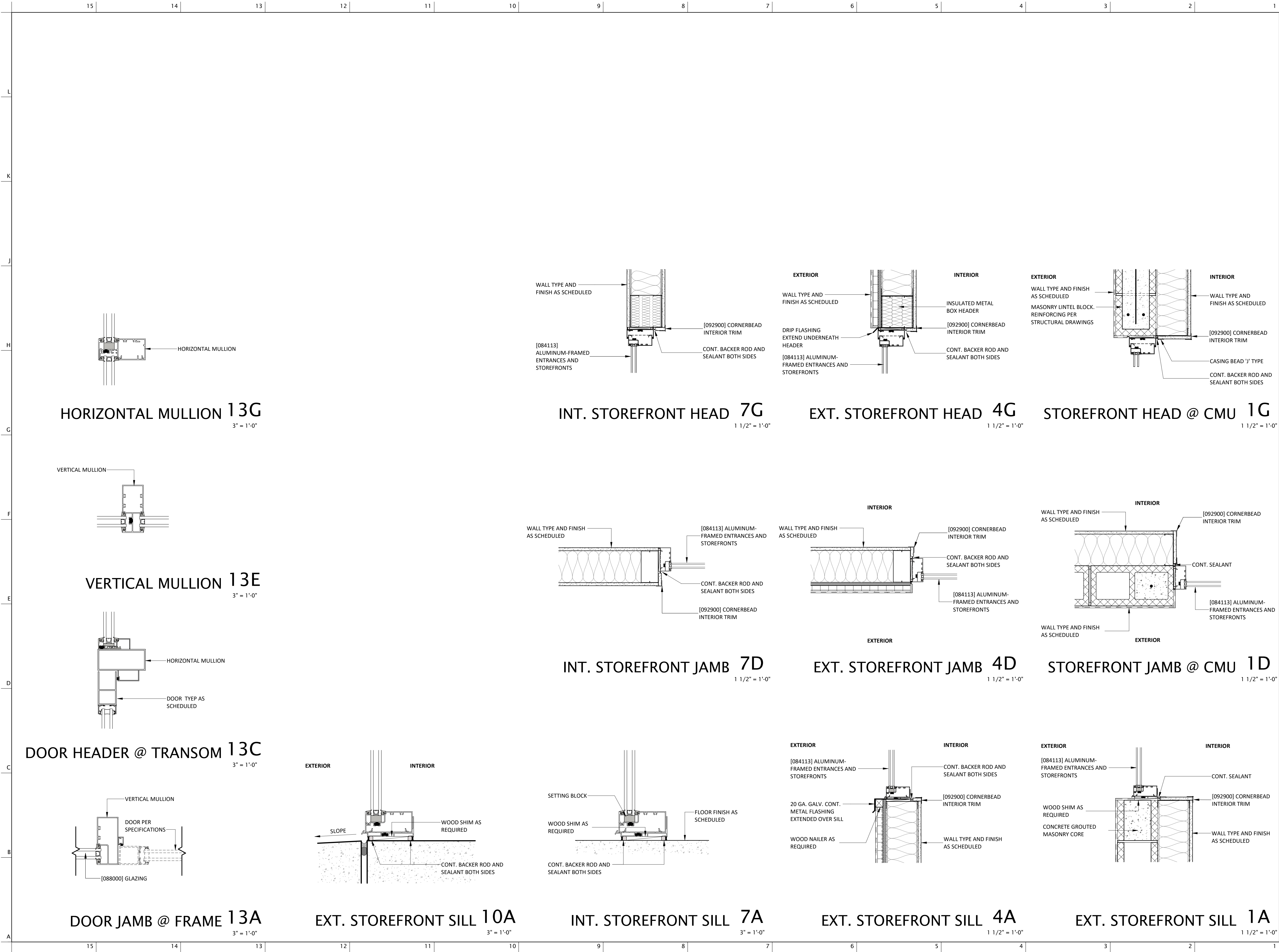
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DATE 01.20.2025
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A903



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REGISTERED ARCHITECT
45961
CARLOS ANTONIO MURRIETA
AZ 11-01-07-2026
STATE OF ARIZONA, U.S.A.

OWNER INFORMATION

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TUCSON, AZ 85757

Micro Market
5010 W CALLE TORIM
TUCSON, AZ 85757

PROJECT LOCATION

CALLE TORIM
W TAROOK

VICINITY

REVISION NUMBER	DESCRIPTION	DATE
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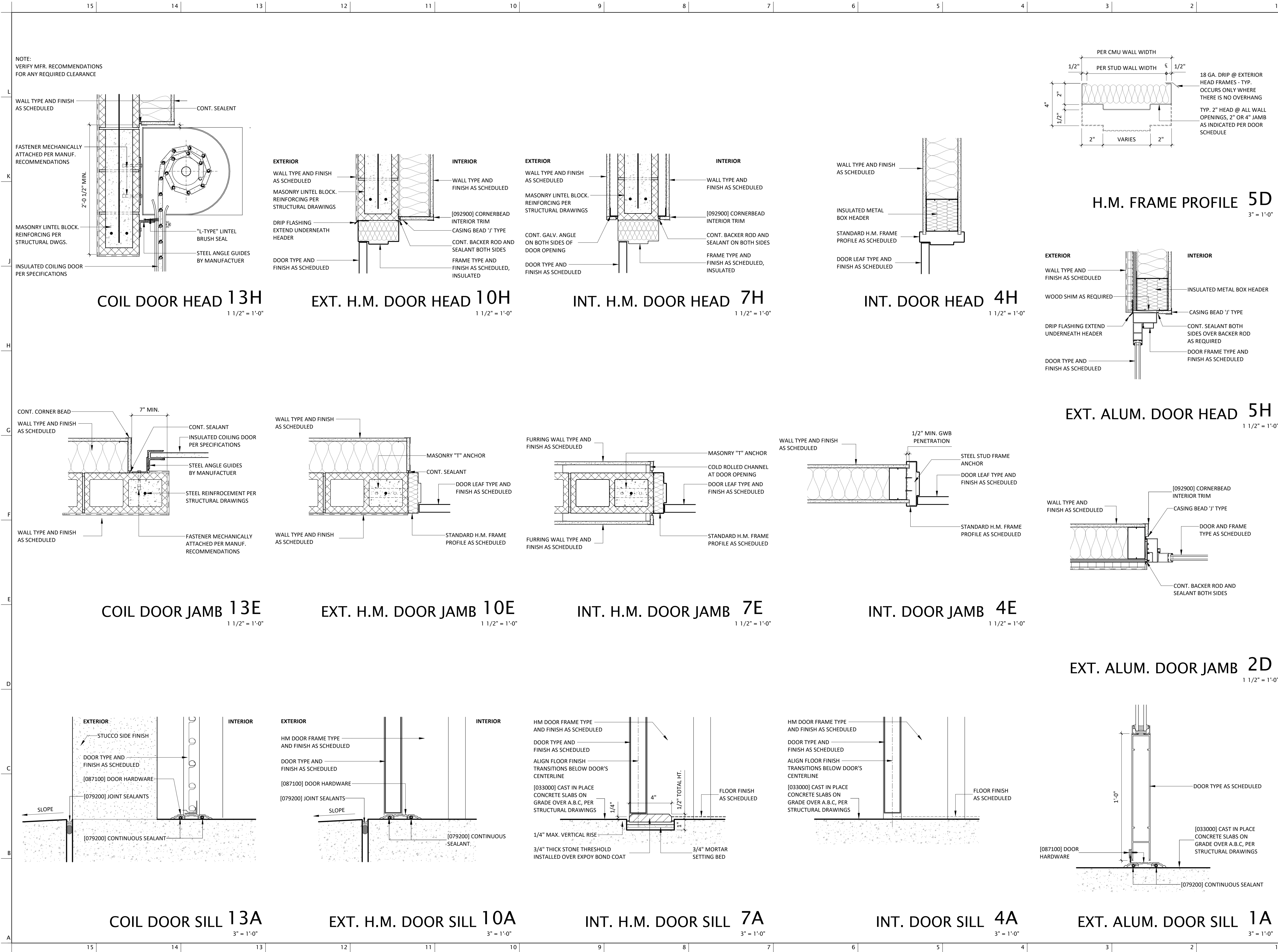
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SHEET TITLE

STOREFRONT DETAILS

DATE 01.20.2025
SHEET


A905






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STATE OF ARIZONA
EXPIRATION DATE 12/31/2026

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TUCSON, AZ 85757

PROJECT INFORMATION

PROJECT LOCATION: CALLE TORIM

PROJECT LOCATION: S CAMINO POTAM

PROJECT LOCATION: S CAMINO COCOIM

PROJECT LOCATION: W TAROOK

PROJECT LOCATION: W TAROOK

VICINITY

REVISION	NUMBER	DESCRIPTION	DATE
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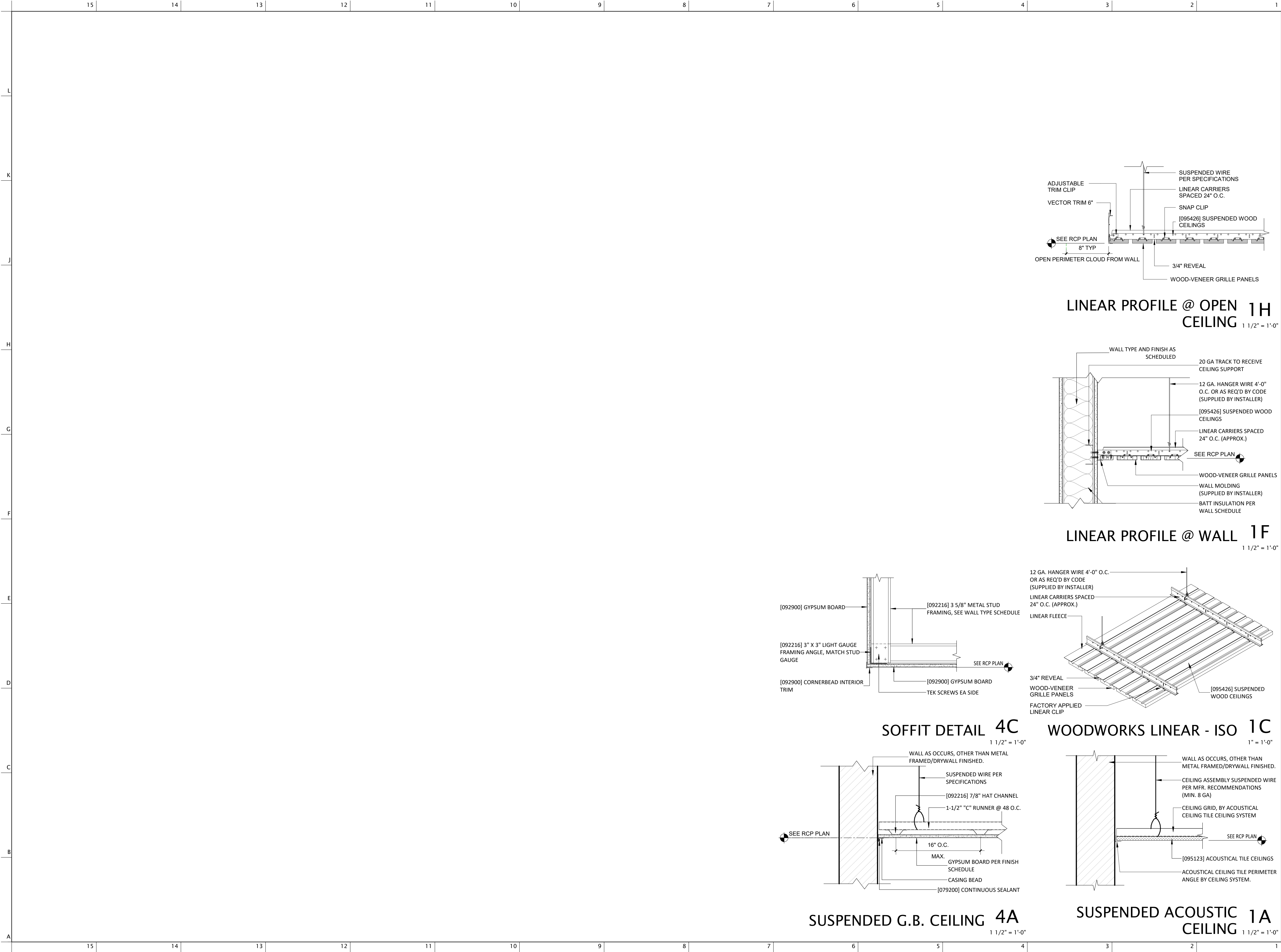
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DOOR DETAILS

DATE 01.20.2025
SHEET
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S VATGUE

PROJECT LOCATION

CALLE TORIM

W TAROOK

S CAMINO POTAM

S CAMINO COCOIM

W TAROOK

VICINITY

REVISION	NUMBER	DESCRIPTION	DATE
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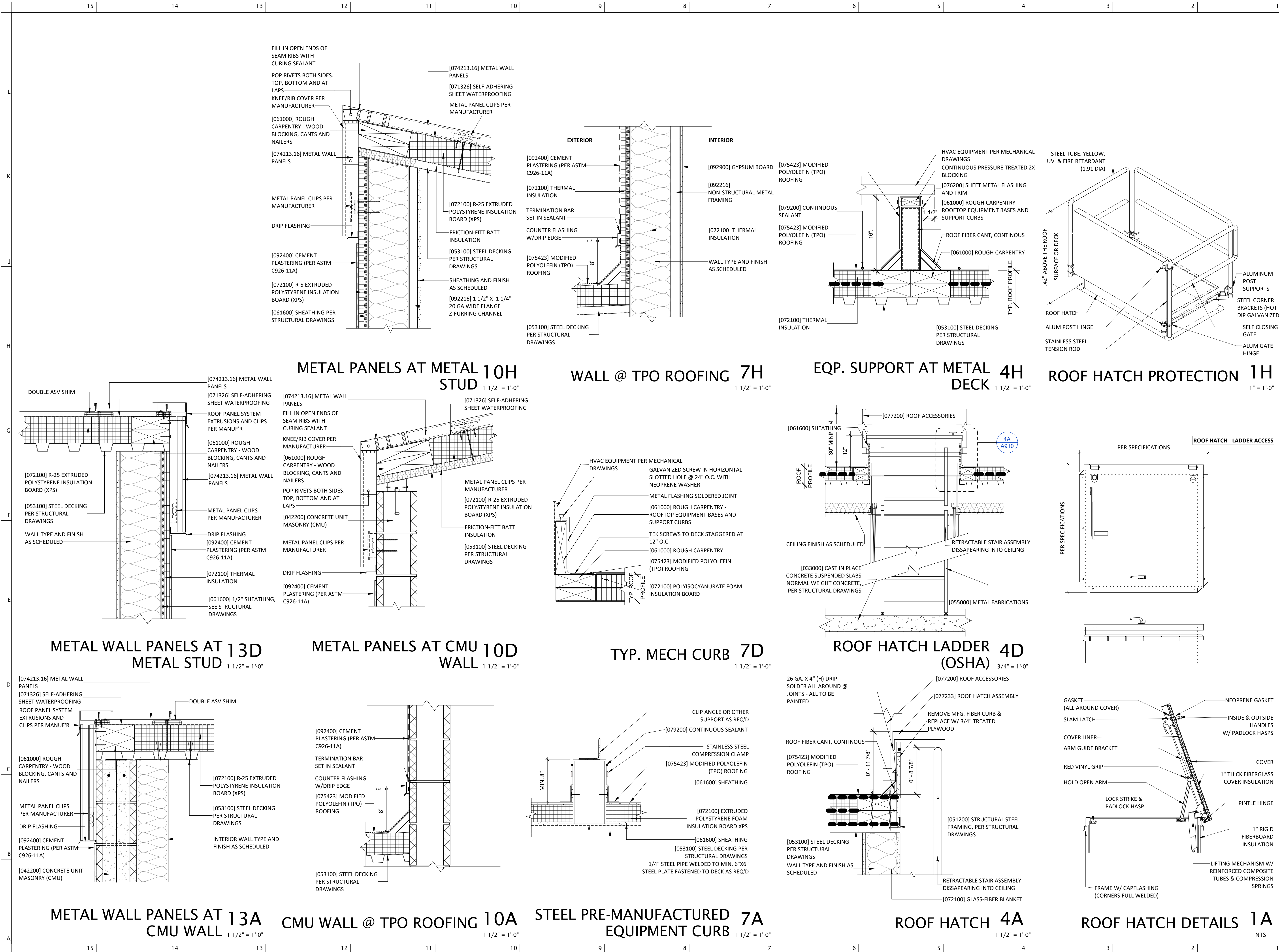
CEILING DETAILS

DATE

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SHEET

A909



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OWNER INFORMATION
Pascua Yaqui Tribe

7490 S CAMINO DE OESTE
TUCSON, AZ 85757

Micro Market

5010 W CALLE TORIM
TUCSON, AZ 85757



S	VATGUE	PROJECT LOCATION	S	CAMINO POTAM	S	CAMINO COCOM
		CALLE TORIM				W TAROOK

VICINITY

REVISION	DESCRIPTION	DATE
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NUMBER	DESCRIPTION	DATE
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PROJECT NO. 23C-001

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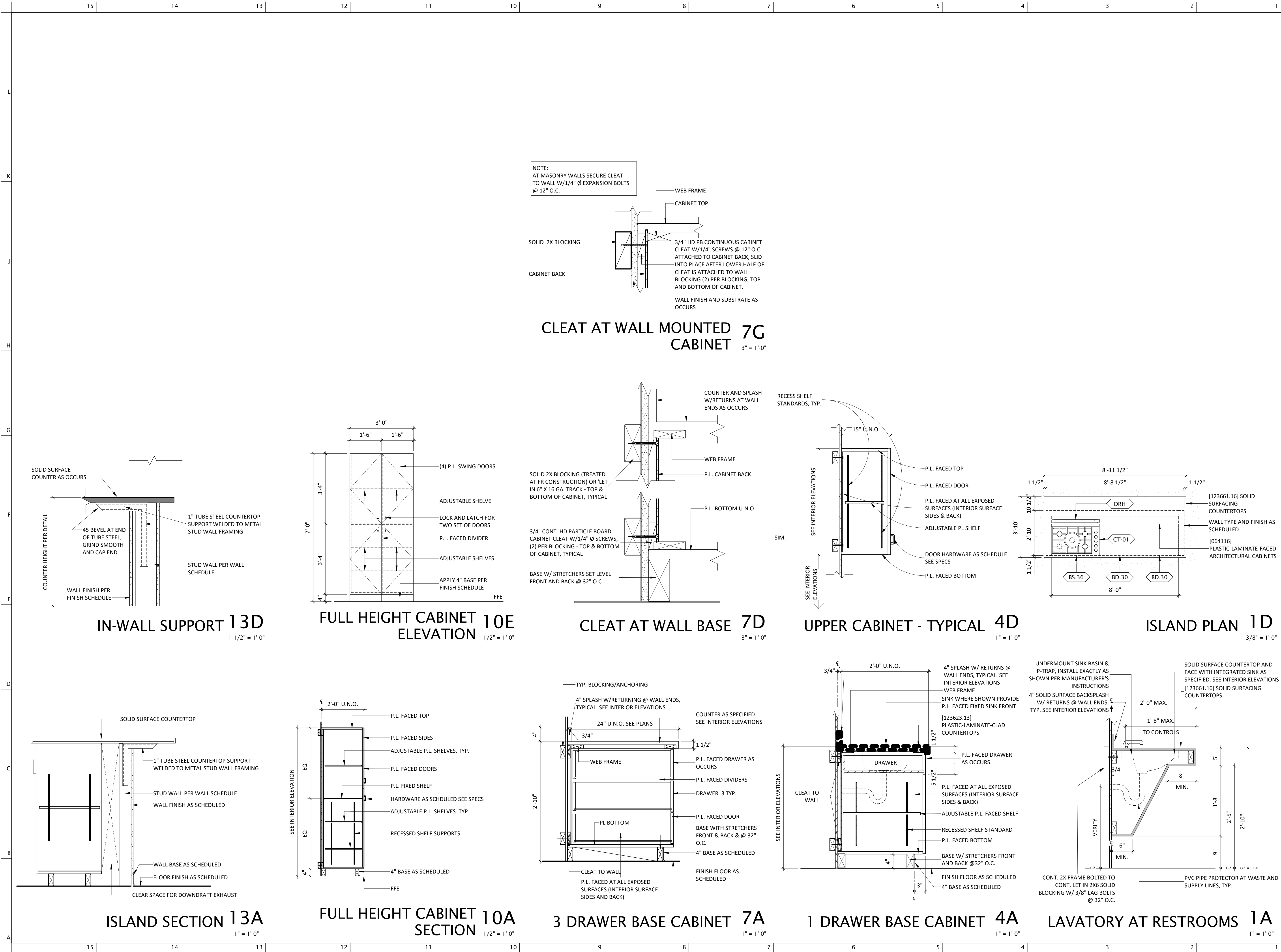
SHEET TITLE

ROOF DETAILS

DATE 01.20.2025

SHEET

A910



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OWNER INFORMATION

PROJECT LOCATION: S CAMINO POTAM, S CAMINO COCOIM

PROJECT: CALLE TORIM

W TAROOK

REVISION

NUMBER	DESCRIPTION	DATE
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SHEET TITLE

MILLWORK DETAILS

DATE 01.20.2025
SHEET

A912

TERMS AND ABBREVIATIONS

ABBRV	TERM
(#)	NUMERICAL QUANTITIES WHEN ENCLOSED IN PARENTHESES
A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABC	AGGREGATE BASE COURSE
ARCH	ARCHITECT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BOD	BOTTOM OF DECK
BOS	BOTTOM OF STEEL
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT
	CONTROL JOINT
	CENTERLINE
CL	CLEAR
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EOS	EDGE OF SLAB
EQ	EQUAL
(E)	EXISTING
EW	EACH WAY
(F)	FUTURE
FINISH	FINISH FLOOR ELEVATION
FLR	FLOOR
FT	FEET
FTG	FOOTING
GA	GAUGE
GLV	GLUED/ANVIZED
GLB	GENERAL CONTRACTOR
GSN	GLUED LAMINATED WOOD BEAM
HORIZ	GENERAL STRUCTURAL NOTES
HSS	HORIZONTAL
IBC	HOLLOW STRUCTURAL
ID	SECTION MOMENT OF INERTIA
INT	INTERNATIONAL BUILDING CODE
KIP, K	INSIDE DIAMETER
KLF	INTERIOR
L	ONE THOUSAND POUNDS
LB	KIP PER LINEAR FOOT
LL	STEEL ANGLE
LLBB	POUND
LLH	LIVE LOAD
LLV	LONG LEG BACK TO BACK
LSL	LONG LEG HORIZONTAL
LSV	LONG LEG VERTICAL
LSH	LAMINATED STRAND LUMBER
LSV	LONG SIDE HORIZONTAL
MCJ	LONG SIDE VERTICAL
MECH	MASONRY CONTROL JOINTS
MFR	MECHANICAL
MIN	MANUFACTURER
NA	MINIMUM
NTS	NOT APPLICABLE
OC	NOT TO SCALE
OD	ON CENTER
OPP	OUTSIDE DIAMETER
OSB	OPPOSITE
PLF	ORIENTED STRAND BOARD
PSF	PERPENDICULAR
PSI	POUNDS PER LINEAR FOOT
PSL	POUNDS PER SQUARE FOOT
PT	POUNDS PER SQUARE INCH
QA	PARALLEL STRAND LUMBER
QC	POST TENSIONED
REQ'D	QUALITY ASSURANCE
RFI	REQUIRED
RTU	REQUEST FOR INFORMATION
SF	ROOF TOP UNIT
SIM	SQUARE FOOT
STD	SIMILAR
T&B	STANDARD
T&G	TOP AND BOTTOM
T&B	TONGUE AND GROOVE
T&B	TOP OF BEAM
T&B	TOP OF CONCRETE
T&B	TOP OF DECK
T&B	TOP OF FOOTING
T&B	TOP OF MASONRY
T&B	TOP OF PARAPET
T&B	TOP OF STEEL
T&B	TOP OF WALL
T&B	TYPICAL
T&B	UNLESS NOTED OTHERWISE
T&B	VERTICAL
T&B	VERIFY IN FIELD
T&B	WATER TO CEMENT RATIO
T&B	WINDLOAD
T&B	WLP
T&B	WELDED WIRE FABRIC
T&B	WELDED WIRE REINFORCEMENT

CODE:

2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC)

DESIGN LOADS:

- ROOF:
 - LIVE LOAD _____ 20 PSF (REDUCIBLE)
 - DEAD LOAD _____ 20 PSF
 - SUPERIMPOSED DEAD LOAD ON TRUSSES _____ 17 PSF (14PSF TOP CHORD / 3PSF BOTTOM CHORD)
 - ROOF DEAD LOAD INCLUDES A 1.5 PSF ALLOWANCE FOR FIRE SPRINKLER PIPE BRANCH LINES LESS THAN 3 INCH DIAMETER. DESIGNERS OF STRUCTURAL MEMBERS ENGINEERED BY OTHERS SHALL COORDINATE THE WEIGHTS AND LOCATIONS OF ALL FIRE SPRINKLER BRANCH LINES GREATER THAN 3 INCH DIAMETER AND DESIGN FOR ADDITIONAL LOADS ACCORDINGLY.
 - MECHANICAL LOADS SHOWN ON PLANS SHALL BE IN ADDITION TO THE LOADING REQUIREMENTS NOTED ABOVE.
- WIND LOAD:
 - RISK CATEGORY _____ II
 - BASIC WIND SPEED, V _____ 105 MPH
 - EXPOSURE CATEGORY _____ C
 - IMPORTANCE FACTOR, Iw _____ 1.0
 - MEAN ROOF HEIGHT _____ 18 FT
 - INTERNAL PRESSURE COEFFICIENT _____ +/- 0.18
 - G _____ 0.85
 - Kd _____ 0.85
 - Kzt _____ 1.0
 - Kz _____ 0.88
 - ENCLOSURE CLASSIFICATION _____ ENCLOSED BUILDING
- SEISMIC LOADS:
 - RISK CATEGORY _____ II
 - IMPORTANCE FACTOR, Ie _____ 1.0
 - SEISMIC SITE CLASS _____ D
 - Ss _____ 0.270
 - S1 _____ 0.083
 - SDS _____ 0.285
 - SD1 _____ 0.133
 - SEISMIC DESIGN CATEGORY _____ B
 - BASIC SEISMIC FORCE RESISTING SYSTEM:
 - INTERMEDIATE REINFORCED MASONRY WALL SYSTEM
 - R _____ 3.5
 - O _____ 2
 - Cd _____ 2.25
 - 150 YDS. CONCRETE SAMPLING PER ASTM C31 AND TESTING OF SAMPLES PER ASTM C39
 - BASE SHEAR, V _____ 0.081W

FOUNDATIONS:

- GEOTECHNICAL CONSULTANT: ATEK ENGINEERING CONSULTANTS
- REPORT NUMBER: 230057
- REPORT DATE: JUNE 13, 2023
- SPREAD FOOTINGS SHALL BEAR ON OF COMPACTED FILL. FOR FILL REQUIREMENTS, SEE SOIL REPORT. DESIGN SOIL BEARING VALUE 2,000 PSF. BOTTOM OF FOOTINGS TO BE 1'-6" MINIMUM BELOW FINISHED GRADE. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT FINISHED GRADE WITHIN 5 FEET FOR PERIMETER FOOTINGS. FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

GENERAL:

- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK THAT CONFORMS TO THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY AND HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY.
- CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
- ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, WALLS, SLABS, STEEL DECK, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER THROUGH ARCHITECT OR OWNER.
- OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. HE SHALL BE RESPONSIBLE FOR ALL CHANCES NECESSARY IF HE CHOOSES AN OPTION AND HE SHALL COORDINATE ALL DETAILS.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- TYPICAL DETAILS ARE NOT CUT ON DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE. TYPICAL DETAILS SHALL APPLY TO ALL SUCH SITUATIONS AND CONDITIONS WHICH ARE SIMILAR TO THE CONDITION SHOWN ON THE DETAIL OR VERBALLY DESCRIBED IN THE TITLE OF THE DETAIL OR NOTES ON THE DETAIL. TYPICAL DETAILS SHALL APPLY REGARDLESS OF WHETHER OR NOT THE DETAIL IS CUT ON THE PLANS.
- WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. SUPPLIER OF ENGINEERED STRUCTURAL COMPONENTS SHALL BE RESPONSIBLE FOR COMPLETE DESIGN AND SHALL USE ALL CONTRACT DOCUMENTS FROM ALL DISCIPLINES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FINISHED GRADE WITH CIVIL DRAWINGS PRIOR TO START OF CONSTRUCTION. ALL DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS ARE TO ASSIST CONTRACTOR IN VERIFICATION. DO NOT SCALE DIMENSIONS FROM DRAWINGS.
- ITEMS SHOWN BY OTHER DISCIPLINES WITH REFERENCE TO STRUCTURAL DRAWINGS BUT NOT SHOWN ON THESE STRUCTURAL DRAWINGS SHALL BE CONSIDERED DESIGN BUILD ITEMS. CONTRACTOR SHALL SUBMIT DESIGN BY OTHERS FOR REVIEW

CONCRETE:

- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- ADDITION OF WATER TO THE BATCH FOR MATERIAL WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED, UNLESS THE SUPPLIER HAS SPECIFICALLY WITHHELD WATER FROM THE BATCH AT THE PLANT. IN SUCH CASE THE MIX DESIGN AND TRUCK TICKET MUST CLEARLY STATE THE MAXIMUM AMOUNT OF WATER THAT CAN BE ADDED TO THE BATCH ON SITE. IN NO CASE SHALL THE DESIGN WATER TO CEMENTITIOUS MATERIAL RATIO BE EXCEEDED.
- CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP OF 4" +/- 1", TO BE FIELD VERIFIED. PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT.
- MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY UNDER UNDER-FLOOR DUCTS, SLAB EDGES, REINFORCING, KEYS, ETC. MECHANICALLY VIBRATE ONLY THE TOP 5 FEET OF DRILLED PIER CONCRETE. REVIBRATE TOP OF DRILLED PIER 15 MINUTES AFTER PLACING CONCRETE.
- UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONSTRUCTION JOINTS, KEYED OR SAW CUT, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 150 SQUARE FEET. MAXIMUM PANEL SIZE (IN FEET) EQUALS APPROXIMATELY THREE TIMES THE THICKNESS OF THE SLAB (IN INCHES) IN BOTH DIRECTIONS. KEYED CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MUST BE SAW CUT. CONTRACTOR SHALL SUBMIT PROPOSED SAWCUT AND CONSTRUCTION JOINT LAYOUT FOR REVIEW PRIOR TO CONSTRUCTION. CAST CLOSURE POUR AROUND COLUMNS AFTER DEAD LOAD IS APPLIED.
- TEST DATA FOR CONCRETE SUBMITTALS SHALL BE SUBMITTED FOR TOP OF A FREE-STANDING WALL. PLACE THESE BARS CONTINUOUS THROUGH CONTROL JOINT. WRAP MASTIC TAPE FOR 1'-8" EACH SIDE OF CONTROL JOINT. PROVIDE BENT BARS, TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTIONS TO MAINTAIN BOND BEAM CONTINUITY. UNLESS NOTED OTHERWISE, LAP SPLICES SHALL BE PER TYPICAL REINFORCING BAR SPICE DETAIL. STAGGER ALTERNATE SPLICES A MINIMUM OF 4'-0". PROVIDE STANDARD WEIGHT (NO 9 GAGE WIRE) DUR-O-WIRE OR DUR-O-WIRE LADDER TYPE JOINT REINFORCING AT 16" OC IN MASONRY WALLS. LAP JOINT REINFORCING 6" MINIMUM. PROVIDE ADDITIONAL LADDER JOINT REINFORCING AT TOP AND BOTTOM OF ALL WALL OPENINGS AND BELOW GRADE.
- GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED, BUT BEFORE WORKABILITY IS LOST.
- PROVIDE CLEANOUTS IF GROUT POUR EXCEEDS 5'-0" IN HEIGHT. IF CLEANOUTS ARE PROVIDED, GROUT POUR MAXIMUM HEIGHT = 12'-0", IN LIFTS NOT TO EXCEED 6'-0".
- UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'-0". CONTROL JOINTS SHALL NOT OCCUR WITHIN 24" OF WALL CORNERS, INTERSECTIONS, ENDS OVER OPENINGS, OR WITHIN 24" OF JAMBS OR CONCENTRATED LOADS. CONTRACTOR SHALL PROVIDE MCJ LAYOUT TO ARCHITECT AND ENGINEER OF RECORD FOR REVIEW PRIOR TO START OF CONSTRUCTION.
- GROUT ALL CELLS CONTAINING REINFORCING AND ALL MASONRY BELOW GRADE.
- MASONRY UNIT PROPERTIES:

CONCRETE USE

MINIMUM 28 DAY

	COMPRESSIVE STRENGTH
UNLESS NOTED OTHERWISE	
ALL CONCRETE SHALL BE	3,000 PSI
FOOTINGS AND STEM WALLS	3,000 PSI
SLABS ON GRADE	4,000 PSI

DEFERRED SUBMITTALS:

- DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.
- SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD THROUGH THE ARCHITECT AND GENERAL CONTRACTOR WITHIN 6 WEEKS OF AWARD OF CONTRACT TO THE GENERAL CONTRACTOR. ONCE THE SUBMITTAL DOCUMENTS HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS, THE ENGINEER OF RECORD WILL FORWARD THEM TO THE ARCHITECT WITH A NOTATION INDICATING THAT THEY ARE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE ARCHITECT WILL FORWARD THE DEFERRED SUBMITTAL DOCUMENTS TO THE GENERAL CONTRACTOR WHO WILL MAINTAIN ONE SET ON SITE FOR REFERENCE BY THE CITY INSPECTOR. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
- ALL DEFERRED SUBMITTALS SHALL BE STAMPED BY A LICENSED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. THIS INCLUDES ALL CALCULATIONS AND DRAWINGS ASSOCIATED WITH THE SCOPE BEING PERFORMED. DEFERRED TRUSSES OR JOISTS SHALL HAVE BOTH CALCULATIONS AND DRAWINGS PRODUCED BY MANUFACTURER STAMPED THE LICENSED ENGINEER. CONTRACTOR SUBMITTING DEFERRED SUBMITTAL IS RESPONSIBLE TO MEET ALL CITY REQUIREMENTS PER PERMIT.
- UNITED STRUCTURAL DESIGN WILL NOT STAMP DRAWINGS PRODUCED BY OTHERS WITH ENGINEERING SEAL. CONTRACTOR IS RESPONSIBLE FOR GETTING ALL ENGINEERING SEALS TO MEET THE CITY REQUIREMENTS FOR THE DEFERRED SUBMITTALS.
- ITEMS THAT ARE SUBMITTED FOR CONSIDERATION AS DEFERRED SUBMITTALS ARE AS FOLLOWS:

- STEEL JOISTS AND JOIST GIRDERS
- HAMBRO STEEL JOISTS
- PREFABRICATED OPEN WEB WOOD/STEEL JOISTS
- COLD-FORMED STEEL FRAMING

MASONRY(2018 IBC):

- MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES". ALL UNITS SHALL BE LAID IN RUNNING BOND UNLESS NOTED OTHERWISE. VERTICAL ALIGNMENT OF CELLS SHALL MAINTAIN A CONTINUOUS CLEAR, UNOBSTRUCTED CELL NOT LESS THAN 3 INCHES SQUARE. MINIMUM DEPTH OF HORIZONTAL BOND BEAM CHANNEL BELOW TOP OF UNIT SHALL BE 1 1/2" AND CHANNEL SHALL BE 3" WIDE MINIMUM. ALL UNITS SHALL BE FREE OF DUST AND DIRT AT THE TIME OF LAYING.
- MORTAR SHALL CONFORM TO ASTM C270 AND SHALL BE TYPE S WITH COMPRESSIVE STRENGTH = 1,800 PSI. MASONRY CEMENT AND EXTENDED LIFE MORTAR SHALL NOT BE USED.
- GROUT SHALL CONFORM TO ASTM C-476. GROUT FOR WALLS CONSTRUCTED WITH HOLLOW CONCRETE MASONRY UNITS OR FOR TWO-WYTHE WALLS SHALL HAVE AN F'g = 2000 PSI. GROUT FOR WALLS CONSTRUCTED WITH HOLLOW BRICK MASONRY UNITS SHALL HAVE AN F'g = 3000 PSI.
- VERTICAL REINFORCING (UNLESS NOTED OTHERWISE); PLACE #4 (6" WALLS), #5 (8" WALLS), #5 (12" WALL) BAR IN CENTER OF GROUT AT CENTER OF WALL, CONTINUOUS FULL HEIGHT OF WALL, WITH ONE BAR AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARING, JAMBS AND EACH SIDE OF CONTROL JOINTS AND AT INTERVALS NOT TO EXCEED 48" OC TIE AT 8'-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE BY AA PRODUCTS COMPANY, UNLESS NOTED OTHERWISE. LAP SPLICES SHALL BE PER LAP SPICE SCHEDULE IN TYPICAL DETAILS. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90 DEGREE HOOKED DOWELS TO MATCH VERTICAL REINFORCING.
- HORIZONTAL REINFORCING (UNLESS NOTED OTHERWISE); PLACE (2) #4 (6" WALL), (2) #5 (8" WALL), (2) #5 (12" WALL) BARS IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT ROOF AND ELEVATED FLOOR LINES. PLACE #4 (6" WALL), #5 (8" WALL), #5 (12" WALL) BAR IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT TOP OF PARAPET OR TOP OF A FREE-STANDING WALL. PLACE THESE BARS CONTINUOUS THROUGH CONTROL JOINT. WRAP MASTIC TAPE FOR 1'-8" EACH SIDE OF CONTROL JOINT. PROVIDE BENT BARS, TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTIONS TO MAINTAIN BOND BEAM CONTINUITY. UNLESS NOTED OTHERWISE, LAP SPLICES SHALL BE PER TYPICAL REINFORCING BAR SPICE DETAIL. STAGGER ALTERNATE SPLICES A MINIMUM OF 4'-0". PROVIDE STANDARD WEIGHT (NO 9 GAGE WIRE) DUR-O-WIRE OR DUR-O-WIRE LADDER TYPE JOINT REINFORCING AT 16" OC IN MASONRY WALLS. LAP JOINT REINFORCING 6" MINIMUM. PROVIDE ADDITIONAL LADDER JOINT REINFORCING AT TOP AND BOTTOM OF ALL WALL OPENINGS AND BELOW GRADE.
- GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED, BUT BEFORE WORKABILITY IS LOST.
- PROVIDE CLEANOUTS IF GROUT POUR EXCEEDS 5'-0" IN HEIGHT. IF CLEANOUTS ARE PROVIDED, GROUT POUR MAXIMUM HEIGHT = 12'-0", IN LIFTS NOT TO EXCEED 6'-0".
- UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'-0". CONTROL JOINTS SHALL NOT OCCUR WITHIN 24" OF WALL CORNERS, INTERSECTIONS, ENDS OVER OPENINGS, OR WITHIN 24" OF JAMBS OR CONCENTRATED LOADS. CONTRACTOR SHALL PROVIDE MCJ LAYOUT TO ARCHITECT AND ENGINEER OF RECORD FOR REVIEW PRIOR TO START OF CONSTRUCTION.
- GROUT ALL CELLS CONTAINING REINFORCING AND ALL MASONRY BELOW GRADE.
- MASONRY UNIT PROPERTIES:

- HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A COMPRESSIVE STRENGTH OF 2,000 PSI AND A DENSITY BETWEEN 105 PCF AND 125 PCF (MEDIUM WEIGHT). Fm FOR DESIGN IS 2000 PSI.

STEEL REINFORCING:

- ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. LATEST ACI CODE AND DETAILING MANUAL APPLY. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. REINFORCING BAR SPACINGS GIVEN ARE MAXIMUM ON CENTERS.
- ALL REINFORCING TO BE WELDED SHALL BE WELDED IN ACCORDANCE WITH AISC D1.4. NO TACK WELDING OF REINFORCING BARS IS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE BY STRUCTURAL ENGINEER.
- REINFORCING LAP SPLICES IN CONCRETE SHALL BE PER TYPICAL DETAIL UNLESS NOTED OTHERWISE. ALL SPLICE LOCATIONS ARE SUBJECT TO APPROVAL. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS.
- LAP IN WELDED WIRE FABRIC SHALL BE MADE SO THAT THE OVERLAP MEASURED BETWEEN THE OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES.
- TYPICAL REINFORCING BAR STRENGTHS
- REINFORCING (NON-WELDABLE): ASTM A615, DEFORMED, Fy = 60 KSI
- REINFORCING (WELDABLE): ASTM A708, DEFORMED, Fy = 60 KSI
- WELDED WIRE REINFORCEMENT: ASTM A1064

ALL OTHERS PER LATEST EDITION OF ACI 318.

SHOP DRAWINGS:

- SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS AND ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. UNITED STRUCTURAL DESIGN, LLC, ASSUMES NO RESPONSIBILITY FOR THE FAILURE OF THE CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW.
- THE GENERAL CONTRACTOR WILL REVIEW AND STAMP ALL SHOP DRAWINGS AND PRODUCT DATA FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMISSION. DIMENSIONS AND ELEVATIONS SHOWN ON SHOP DRAWINGS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. ANY SHOP DRAWINGS OR PRODUCT DATA NOT REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR WILL BE RETURNED WITHOUT REVIEW. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW.
- THE CONSTRUCTION DOCUMENTS MAY NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- ELECTRONIC FILES OF CONSTRUCTION DOCUMENTS WILL NOT BE MADE AVAILABLE FOR USE AS SHOP DRAWINGS.
- VERIFY ALL DIMENSIONS AND FINISHED GRADE WITH ARCHITECTURAL DRAWINGS, CIVIL DRAWINGS, AND FIELD CONDITIONS.
- THE ENGINEER OF RECORD HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.
- ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO THE CONTRACT DOCUMENTS.
- SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL ITEMS ARE CONSTRUCTED ACCORDING TO THE CONTRACT DOCUMENTS.



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USD Project No.:240005

STRUCTURAL STEEL:

- LATEST AISC AND AWS CODES APPLY. THE WORD APPROVED INSPECTION 4.4 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES IS REDEFINED AS REVIEWED.
- STEEL SHALL BE FINISHED AT LOCATIONS EXPOSED TO WEATHER WITH A CORROSION RESISTANT COATING APPLICABLE TO WEATHER AND EXPOSURE CONDITIONS OF PROJECT LOCATION.
- WHEN STRUCTURAL STEEL IS FURNISHED TO A SPECIFIED MINIMUM YIELD POINT GREATER THAN 36 KSI, THE ASTM OR OTHER SPECIFICATION DESIGNATION SHALL BE INCLUDED NEAR THE ERECTION MARK ON EACH SHIPPING ASSEMBLY OR IMPORTANT CONSTRUCTION COMPONENT OVER ANY SHOP COAT OF PAINT PRIOR TO SHIPMENT FROM THE FABRICATORS PLANT.
- IF IT IS NECESSARY TO SPLICE ANY MEMBER, SPLICE LOCATIONS ARE SUBJECT TO REVIEW BY STRUCTURAL ENGINEER. SPLICES SHALL BE FULL PENETRATION WELDED AND TESTED PER THIS SECTION. INDICATE ALL SPLICE LOCATIONS, AND WELDING PROCEDURES ON SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
- ALL BEAMS SHALL BE ERECTED WITH THE NATURAL CAMBER UPWARDS.
- ALL BOLTS SHALL BE INSTALLED WITH STEEL WASHERS.
- ALL WELDING BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES, CERTIFICATES SHALL BE THOSE ISSUED BY AN INDEPENDENT TESTING AGENCY.
- ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS. USE E90 SERIES FOR ASTM A706 REINFORCING BARS. USE E308 SERIES FOR STAINLESS TO STAINLESS WELDS AND E309 SERIES FOR STAINLESS TO CARBON STEELS.
- ALL WELDING PER AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS OR FIELD WELDS SHALL BE SHOWN ON SHOP DRAWINGS.
- SLAG SHALL BE REMOVED FROM ALL COMPLETED WELDS, AND THE WELD AND ADJACENT BASE METAL SHALL BE CLEANED BY BRUSHING OR OTHER SUITABLE MEANS. WELDED JOINTS SHALL NOT BE PAINTED UNTIL AFTER WELDING HAS BEEN COMPLETED AND THE WELD ACCEPTED.
- ALL COMPLETE PENETRATION WELDS SHALL BE TESTED.
- STEEL FABRICATOR TO COORDINATE ALL BRACING, PLATES, ERECTION BOLTS, ETC. WITH STEEL JOIST MANUFACTURER AND STEEL ERECTOR.
- ALL STRUCTURAL STEEL SHALL BE FABRICATED BY A FABRICATOR WITH ANY ONE OF THE FOLLOWING MINIMUM QUALIFICATIONS. QUALIFICATIONS SHALL BE IN EFFECT AT TIME OF BID.
 - INTERNATIONAL ACCREDITATION SERVICE, INC. (IAS) APPROVED FABRICATOR
 - ASIS CERTIFIED FABRICATOR (STD).
- STEEL PROPERTIES
 - WIDE FLANGE COLUMNS, BEAMS AND TEES: ASTM A992 (Fy = 50 KSI)
 - CHANNELS, PLATES AND ANGLES: ASTM A36 (Fy = 36 KSI)
 - PIPE STEEL: ASTM A53 Gr. C (Fy = 35 KSI)
 - HSS RECTANGULAR STEEL: ASTM A500 Gr. C (Fy = 50 KSI)
 - HSS ROUND STEEL: ASTM A500 Gr. C (Fy = 46 KSI)
 - BOLTS: ASTM F3125 (A325) OR ASTM A F1852 TWIST-OFF TYPE
 - ANCHOR RODS: ASTM F1554 Gr. 36 (Fy = 36 KSI)
- STEEL BOLTS SHALL BE WELDED UNLESS OTHERWISE NOTED AS A SNUG-TIGHT CONNECTION ON THE DRAWINGS OR DETAILS. ONE OF THE FOLLOWING METHODS SHALL BE USED TO ASSURE ADEQUATE PRETENSIONING IS ACHIEVED:
 - TURN-OF-NUT METHOD
 - DIRECT TENSION INDICATOR WASHERS
 - CALIBRATED WRENCH
 - TWIST-OFF TYPE BOLT

SHEET LIST

SHEET NUMBER	SHEET NAME
S0.1	GENERAL STRUCTURAL NOTES
S0.2	GENERAL STRUCTURAL NOTES
S0.3	SPECIAL INSPECTIONS
S0.4	SPECIAL INSPECTIONS
S1.1	TYPICAL DETAILS
S1.2	TYPICAL DETAIL
S1.3	TYPICAL DETAIL
S1.4	TYPICAL DETAIL
S1.5	SCHEDULES
S2.1	FOUNDATION PLAN
S3.1	ROOF FRAMING PLAN
S3.2	HIGH ROOF FRAMING PLAN
S4.1	FOUNDATION DETAILS
S5.1	FRAMING DETAILS
S5.2	FRAMING DETAILS



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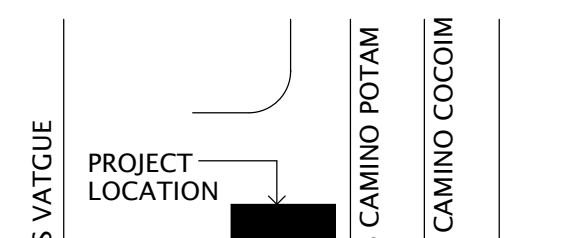


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TUSCON, AZ 85757



PROJECT LOCATION	PROJECT LOCATION
W TAROOK	W TAROOK

VICINITY

REVISION	DESCRIPTION	DATE
NUMBER	DESCRIPTION	DATE

PROJECT NO.	23C-001
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SHEET TITLE

GENERAL STRUCTURAL NOTES

DATE	01.11.2024
SHEET	

S0.1

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2018 IBC, 1705.4 SPECIAL INSPECTION FOR MASONRY CONSTRUCTION

SPECIAL INSPECTION OF MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN ACCORDANCE WITH TMS 402/602 QUALITY ASSURANCE PROGRAM REQUIREMENTS.

LEVEL 2 QUALITY ASSURANCE PROGRAM PER TABLE 3.1.2, APPLIES

TMS 402/602 TABLE 3.1.2 - LEVEL 2 QUALITY ASSURANCE PROGRAM			
MINIMUM VERIFICATION			
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS. REF. ART 1.5.			
PRIOR TO CONSTRUCTION, VERIFICATION OF FM AND FAAC, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE. REF. ART 1.4B.			
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE. REF. 1.5 & 1.6.3.			
MINIMUM INSPECTION			
VERIFICATION AND INSPECTION NEED TMS 402-16	CONTINUOUS	PERIODIC	REFERENCE TMS 402 REFERENCE TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
a. PROPORTIONS OF SITE-PREPARED MORTAR	-	X	ART. 2.1, 2.6 A & 2.6C
b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	-	X	ART. 2.4 B, 2.4 H
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.	-	X	ART. 3.4, 3.6 A
d. PRESTRESSING TECHNIQUE	-	X	ART. 3.6 B
e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X	X	ART. 2.1 C.1
f. SAMPLE PANEL CONSTRUCTION	-	X	ART. 1.6 D
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
a. GROUT SPACE	-	X	ART. 3.2 D, 3.2 F
b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES.	-	X	SEC. 10.8 & 10.9 ART. 2.4, 3.6
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS.	-	X	SEC. 6.1, 6.3.1, 6.3.6, 6.3.7 ART. 3.2 E, 3.4
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	-	X	ART. 2.6 B, 2.4 G.1.B
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:	X	X	
a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	-	X	ART. 1.5
b. PLACEMENT OF MASONRY UNITS AND MORTAR JOIST CONSTRUCTION .	-	X	ART. 3.3 B
c. SIZE AND LOCATION OF STRUCTURAL MEMBERS.	-	X	ART. 3.3 F
d. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	-	X	SEC. 1.2.1 (e), 6.2.1, & 6.3.1
e. WELDING OF REINFORCEMENT.	X	-	SEC. 6.1.6.1.2
f. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG F (4.4 DEG C) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG F (32.2 DEG C).	-	X	ART. 1.8 C, 1.8 D
g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	X	-	ART. 3.6 B
h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	-	ART. 3.5, 3.6 C
i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X	X	ART. 3.3 B.9, 3.3 F.1.b
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	-	X	ART. 1.4 B.2.a.3.1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

2018 IBC, TABLE 1705.3: REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1910.4
2. REINFORCING BAR WELDING. a. VERIFY WELDABILITY OF REINFORCING BARS. OTHER THAN ASTM A706 b. INSPECT SINGLE PASS FILLET WELDS, MAXIMUM 5/16" c. INSPECT ALL OTHER WELDS.	- - X	X - X	AWS D1.4 ACI 318: 26.6.4 ACI 318: 17.8.2	— — —
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	—
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a	X - -	- X X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	— — —
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: Ch 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS.	X X	- -	ACI 318: 26.10	— —
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: Ch 26.9	—
11. VERIFY OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	—
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2 (b)	—

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PROJECT LOCATION

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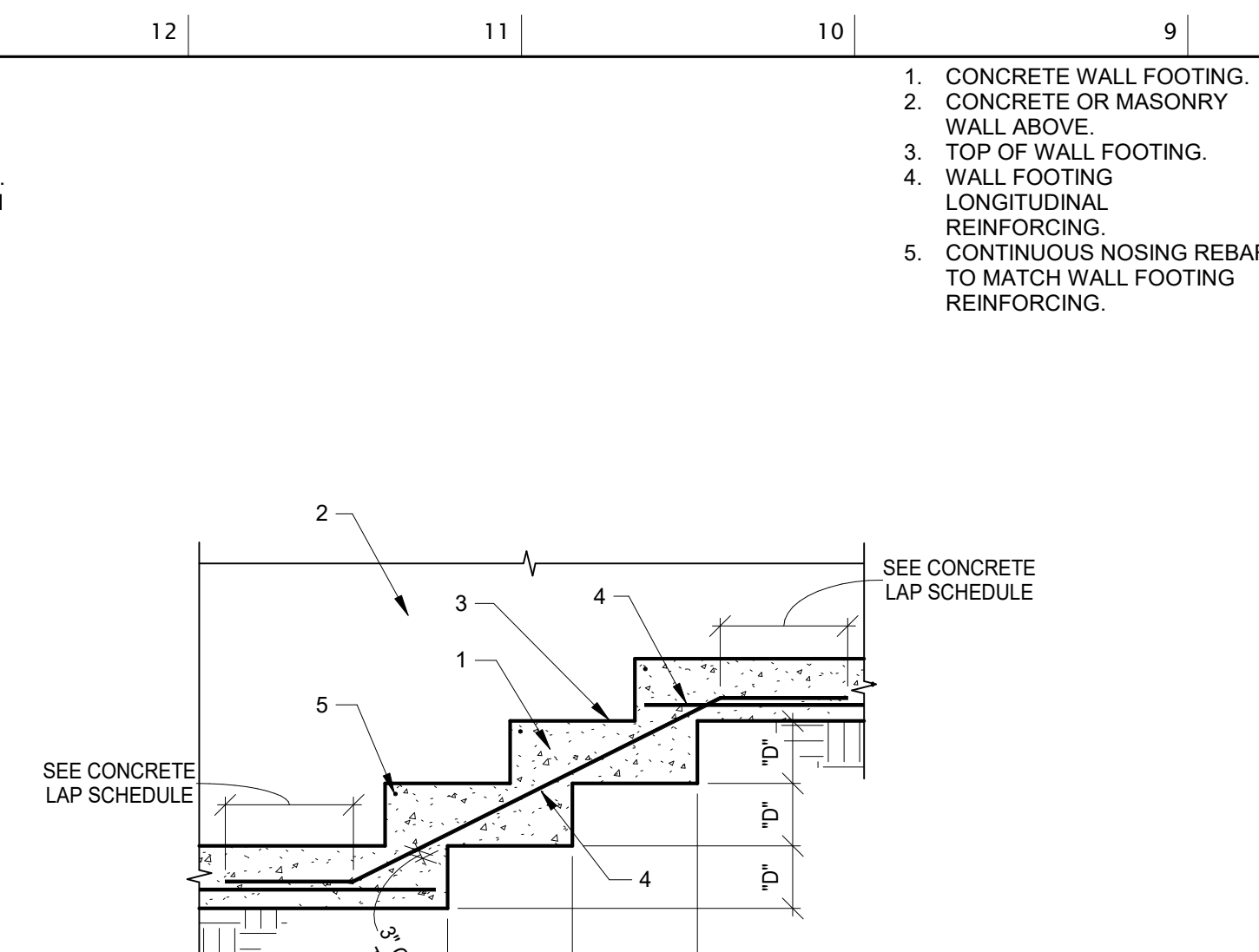
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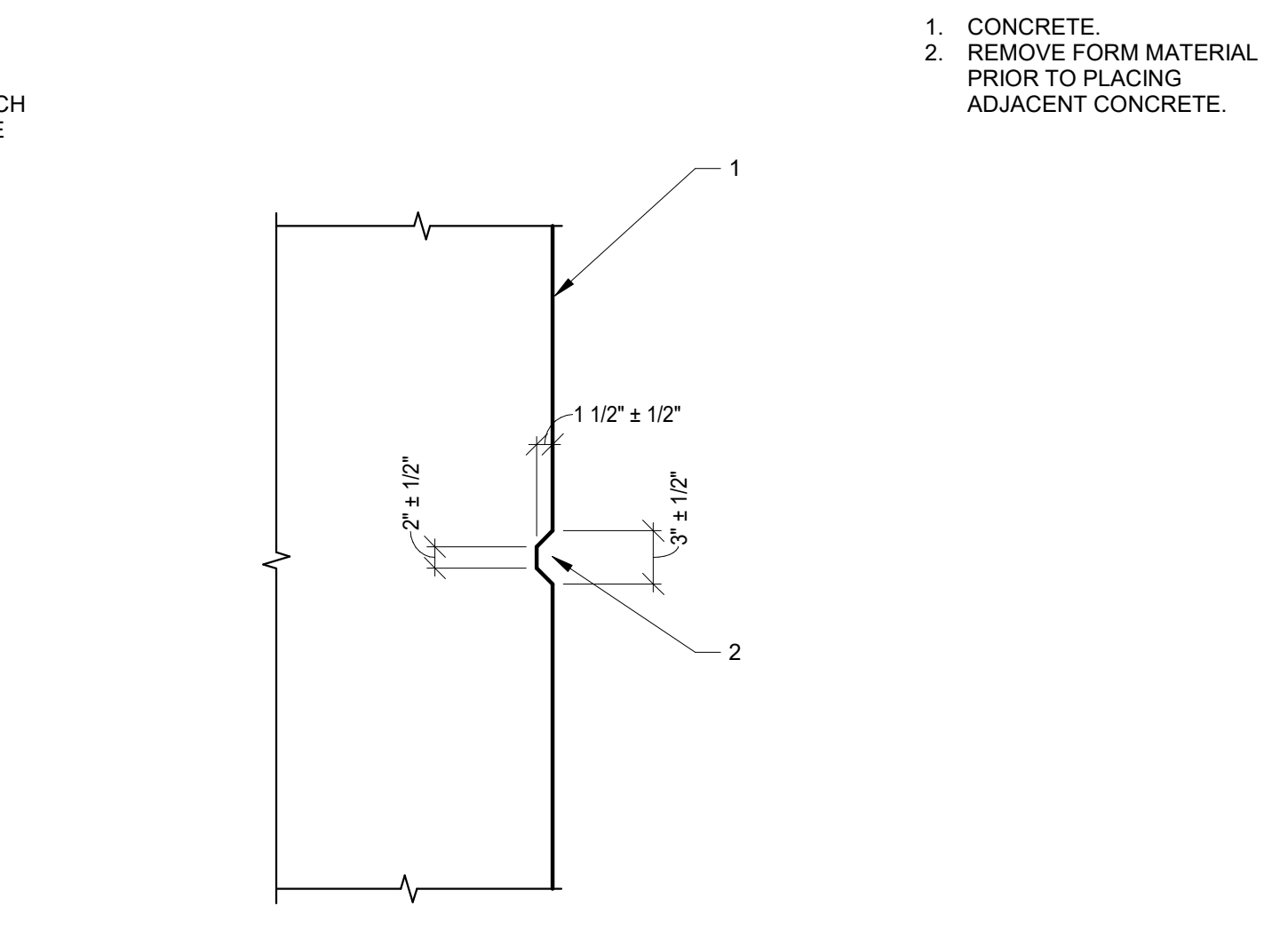
SPECIAL INSPECTIONS

DATE 01.11.2024
SHEET

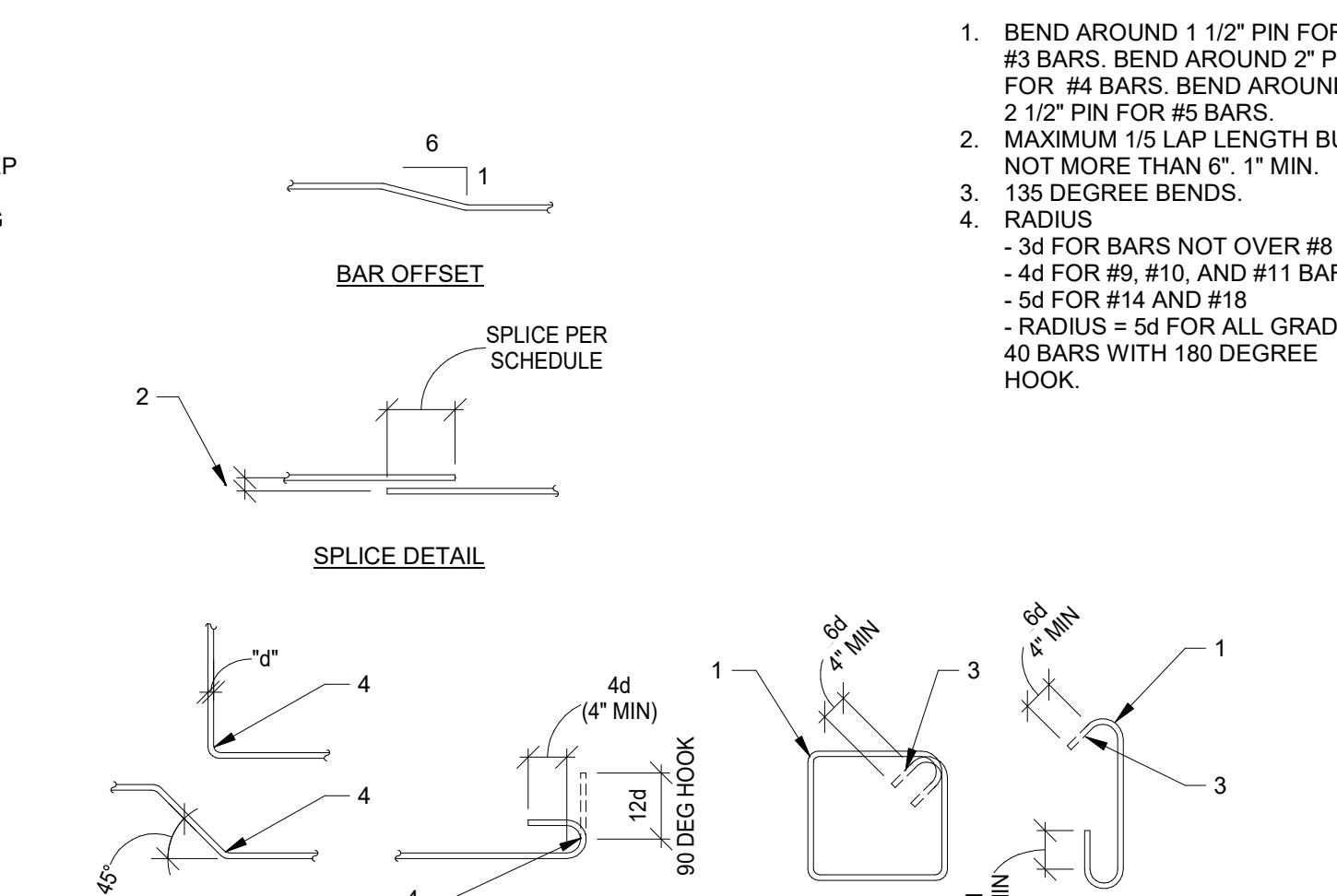
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C2 TYPICAL STEPPED FOOTING
NO SCALE
3230-1T-02
105-10



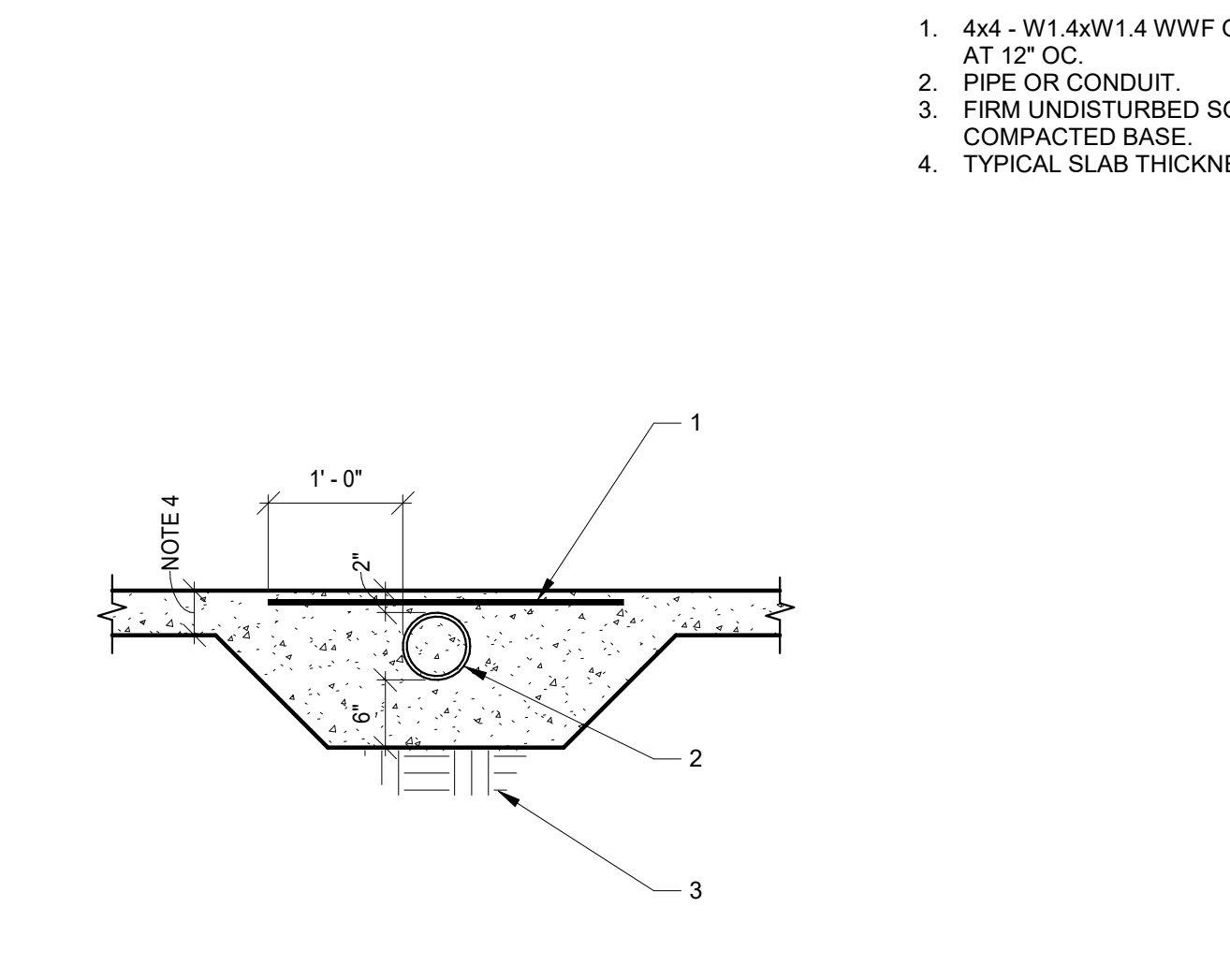
B2 TYPICAL KEY IN CONCRETE
NO SCALE



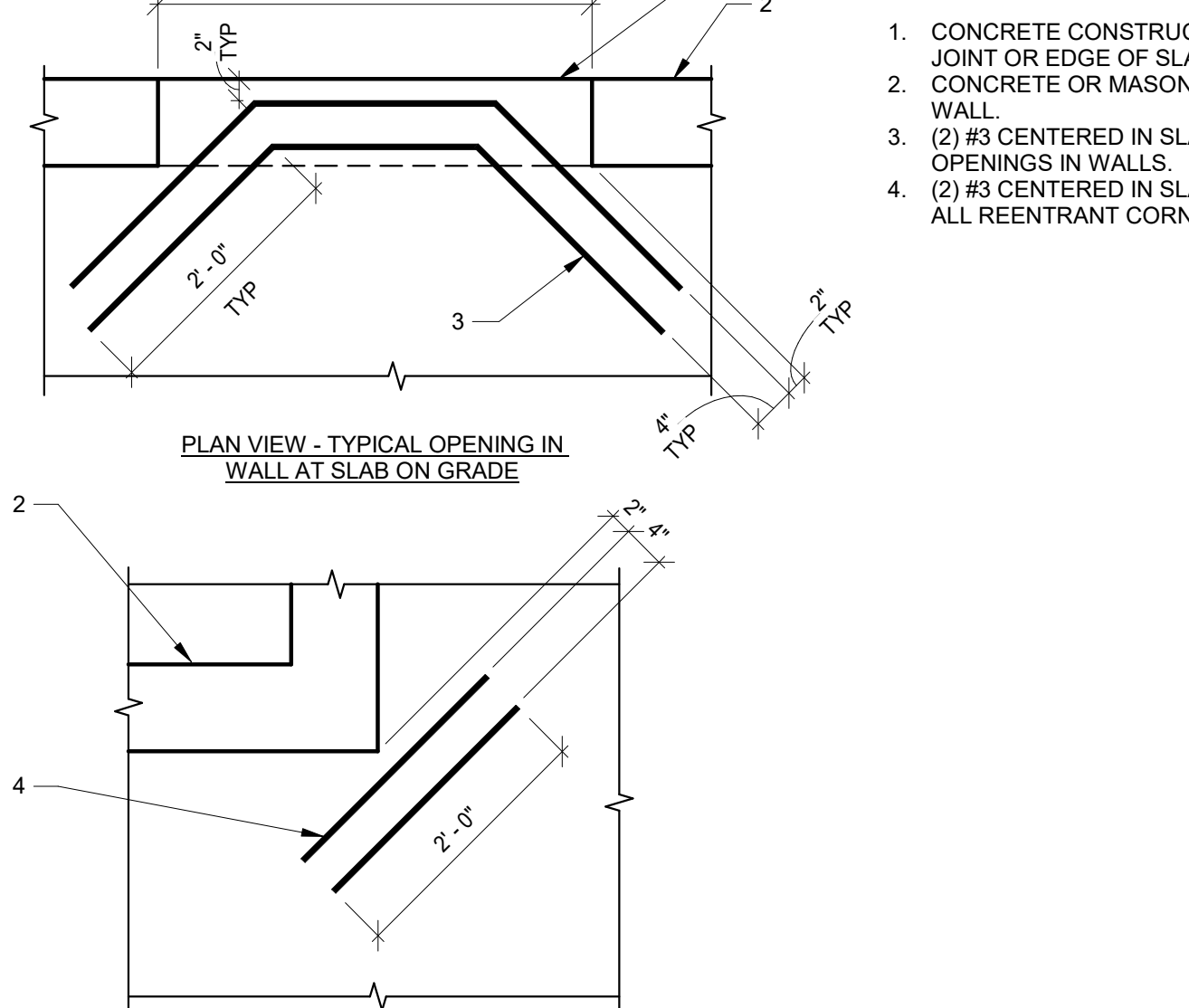
A2 TYPICAL CONCRETE AND MASONRY REINFORCING BAR DETAILS
NO SCALE
5000-1T-01
103-02

TYPICAL CONCRETE LAP SPlice TABLE							
CONCRETE STRENGTH		CLASS B TENSION SPlice LENGTH, INCHES					
		f'c >= 2,500 PSI / 3,000 PSI		f'c >= 4,000 PSI		f'c >= 5,000 PSI	
		BAR LOCATION		BAR LOCATION		BAR LOCATION	
BAR SIZE	BAR GRADE	OTHER	TOP	OTHER	TOP	OTHER	TOP
#3	Gr 60	24"	31"	19"	24"	17"	22"
#4	Gr 60	32"	41"	25"	32"	22"	29"
#5	Gr 60	39"	51"	31"	40"	28"	36"
#6	Gr 60	47"	61"	37"	48"	33"	43"
#7	Gr 60	69"	89"	54"	70"	49"	63"
#8	Gr 60	78"	102"	62"	80"	55"	72"
#9	Gr 60	88"	115"	70"	91"	63"	81"
#10	Gr 60	99"	129"	79"	102"	70"	91"

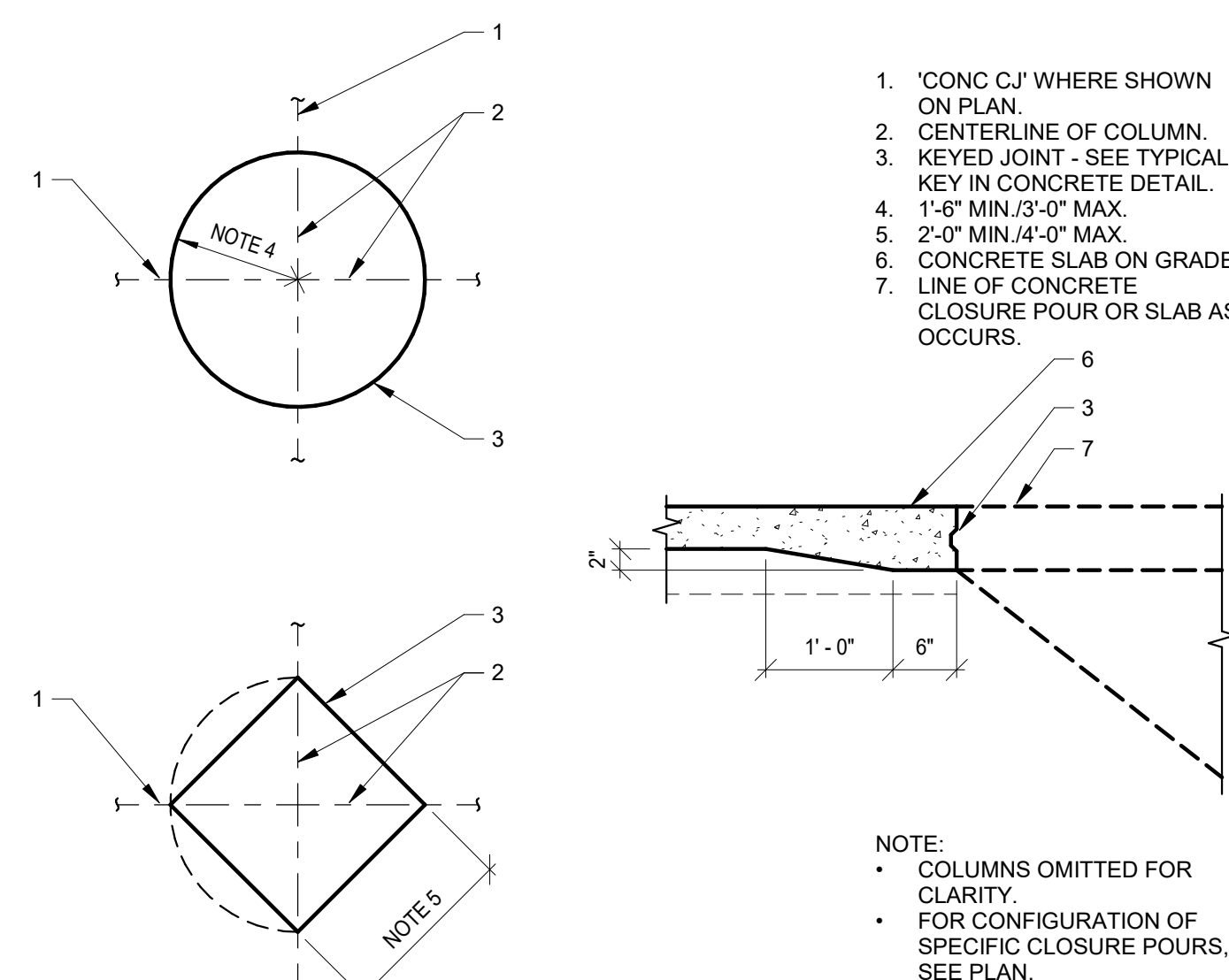
C3 TYPICAL LAP SPLICE IN CONCRETE
NO SCALE 3000-1T-01
103-01C



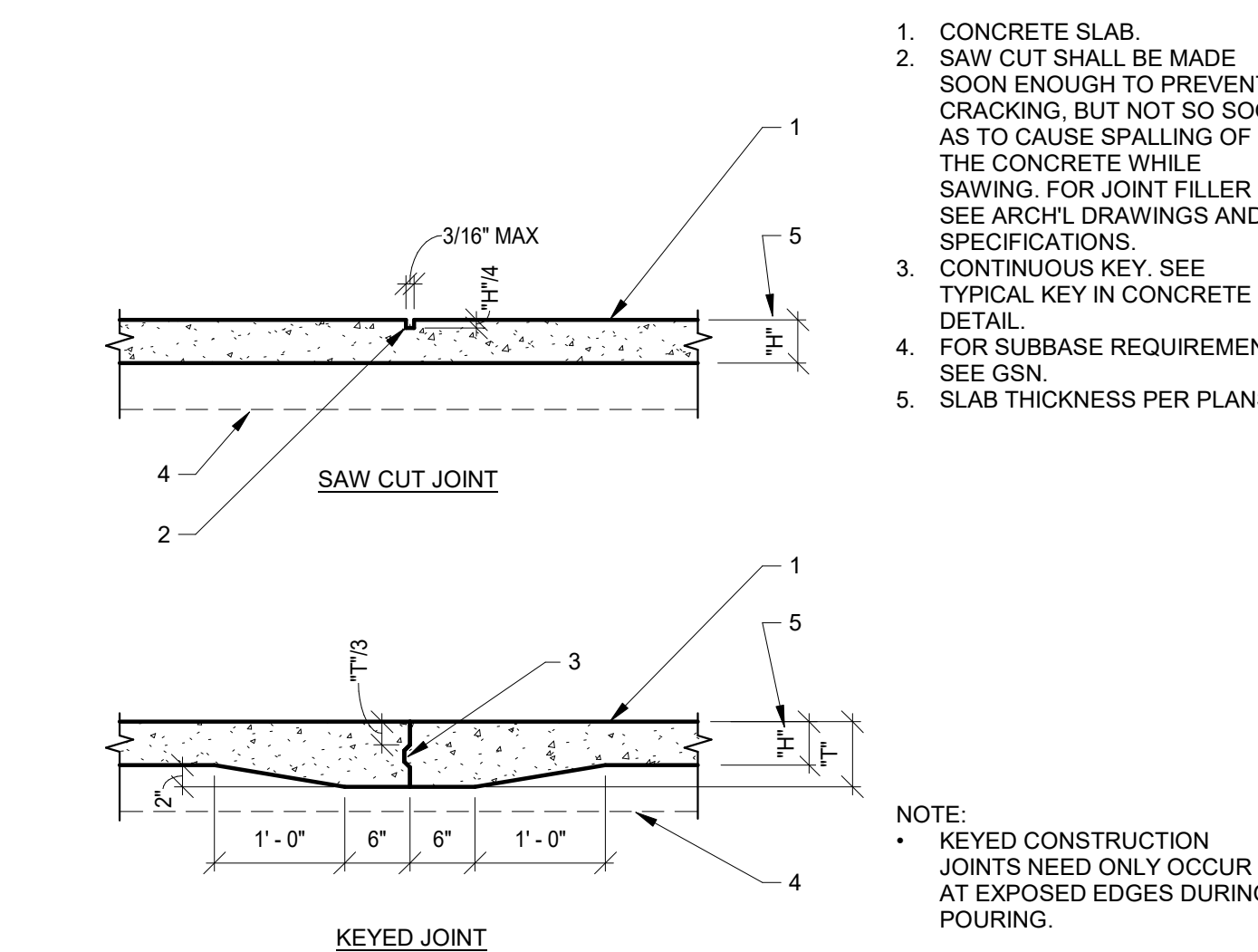
B3 TYPICAL SLEEVE FOR PIPE AT SLAB ON GRADE
NO SCALE
3150-1T-01
101-12



A3 TYPICAL REENTRANT CORNER REINFORCING IN SLAB ON GRADE
NO SCALE
3130-1T-04
101-10



B4 TYPICAL COLUMN CLOSURE POUR AT CONCRETE SLAB ON GRADE
NO SCALE 3100-1T-01
101-05

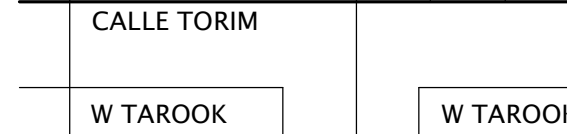


A4 CONSTRUCTION JOINT IN SLAB ON GRADE
NO SCALE 3130-1T-01
101-03



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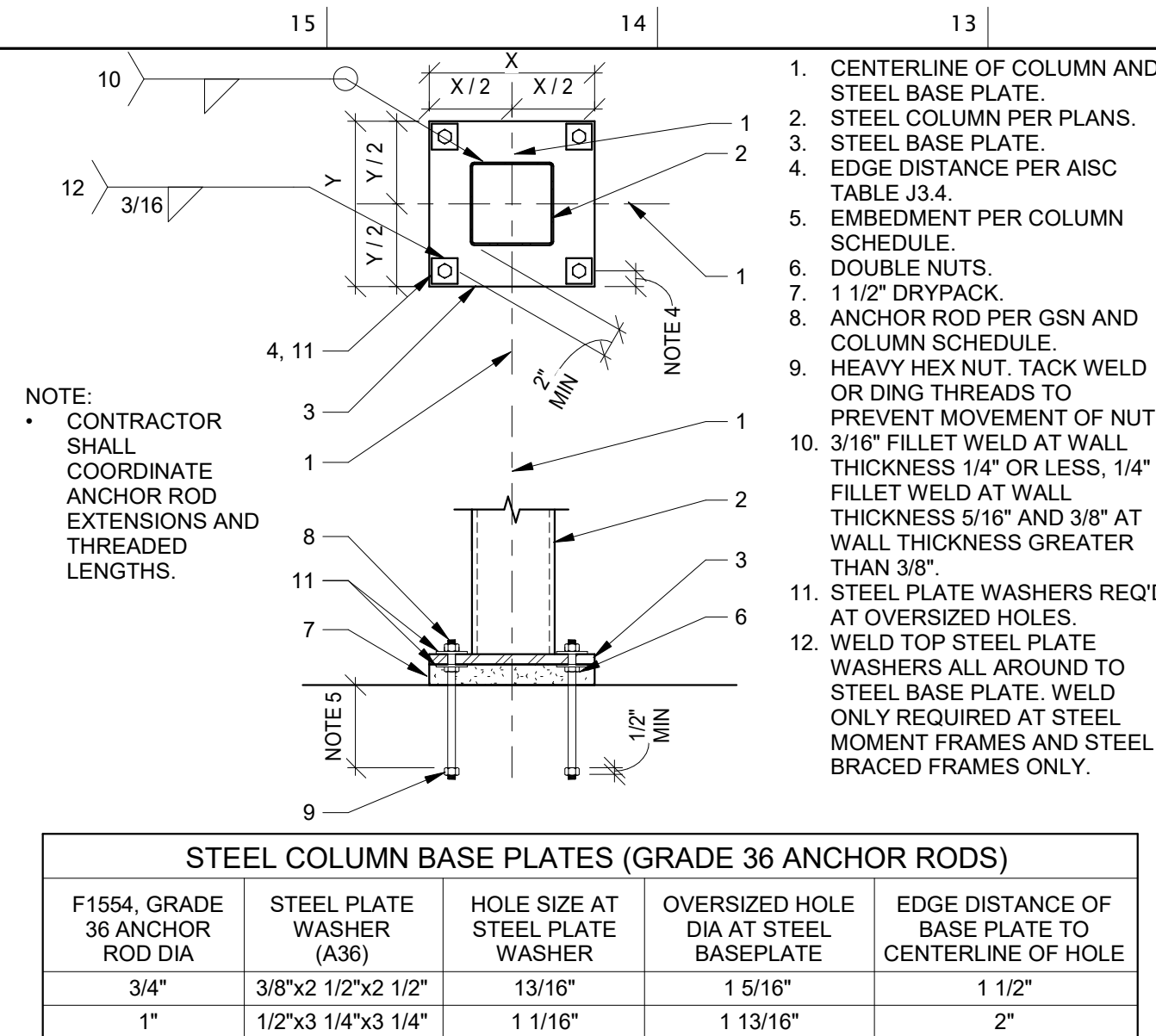
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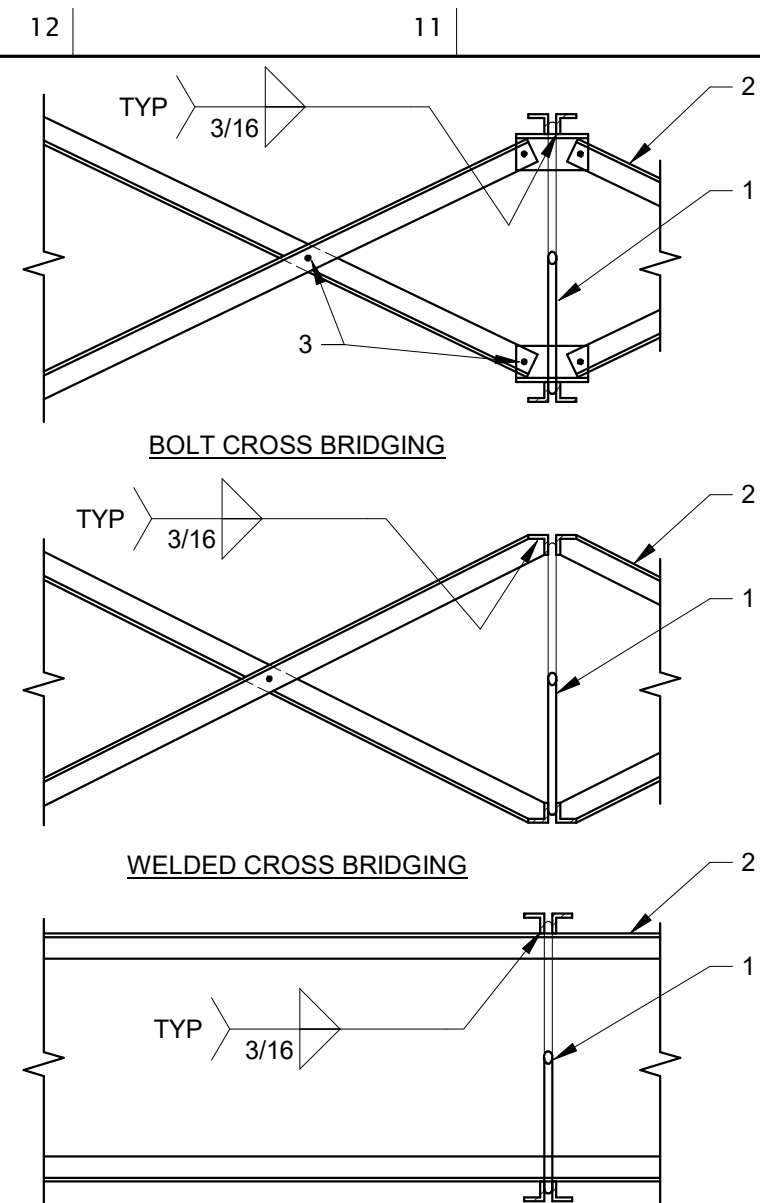
S1.1



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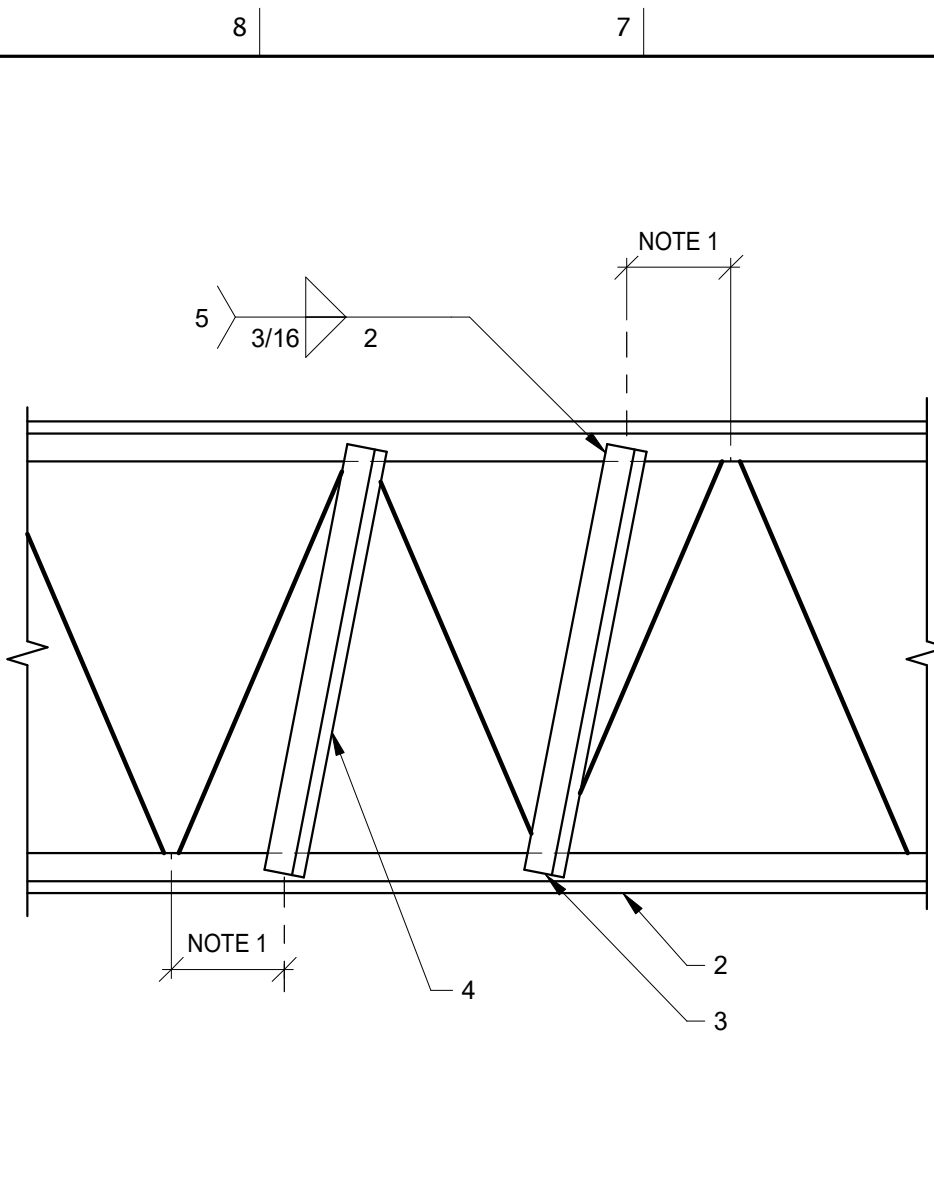


STEEL COLUMN BASE PLATES (GRADE 36 ANCHOR RODS)				
F1554, GRADE 36 ANCHOR ROD DIA	STEEL PLATE WASHER (A36)	HOLE SIZE AT STEEL PLATE WASHER	OVERSIZED HOLE DIA AT STEEL BASEPLATE	EDGE DISTANCE OF BASE PLATE TO CENTERLINE OF HOLE
3/4"	3/8"x2 1/2"x2 1/2"	13/16"	1 5/16"	1 1/2"
1"	1/2"x3 1/4"x3 1/4"	1 1/16"	1 13/16"	2"



1. STEEL JOIST PER PLAN.
2. BRIDGING ANGLES - SIZED AND INSTALLED PER MFR. RECOMMENDATIONS.
3. 1/2" DIA. BOLTS AS SHOWN.

NOTES:
• STEEL DECK NOT SHOWN FOR CLARITY.
• FOR ADDITIONAL INFORMATION, SEE PLAN AND GSN.



1. ADDITIONAL MEMBER REQ'D WHEN LOAD IS MORE THAN 3" AWAY FROM PANEL POINT.
2. STEEL JOIST PER PLAN.
3. STEEL ANGLE 2x2x3/16" EACH SIDE FROM TOP CHORD TO NEAREST BOTTOM CHORD PANEL POINT.
4. STEEL ANGLE 2x2x3/16" EACH SIDE FROM BOTTOM CHORD TO NEAREST TOP CHORD PANEL POINT.
5. TYPICAL EACH ANGLE EACH END.

NOTE:
• PROVIDE THIS DETAIL WHEN CONCENTRATED LOAD EXCEEDS 100 LBS.
• NOTIFY ENGINEER WHEN LOAD EXCEEDS 400 LBS.
• DO NOT SUSPEND UTILITIES FROM DECK OR BRIDGING.

C1 TYPICAL HSS STEEL COLUMN AT BASE PLATE
NO SCALE

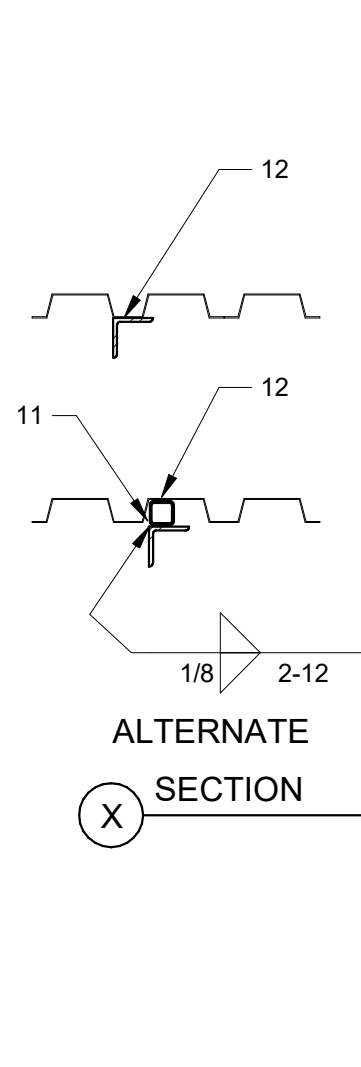
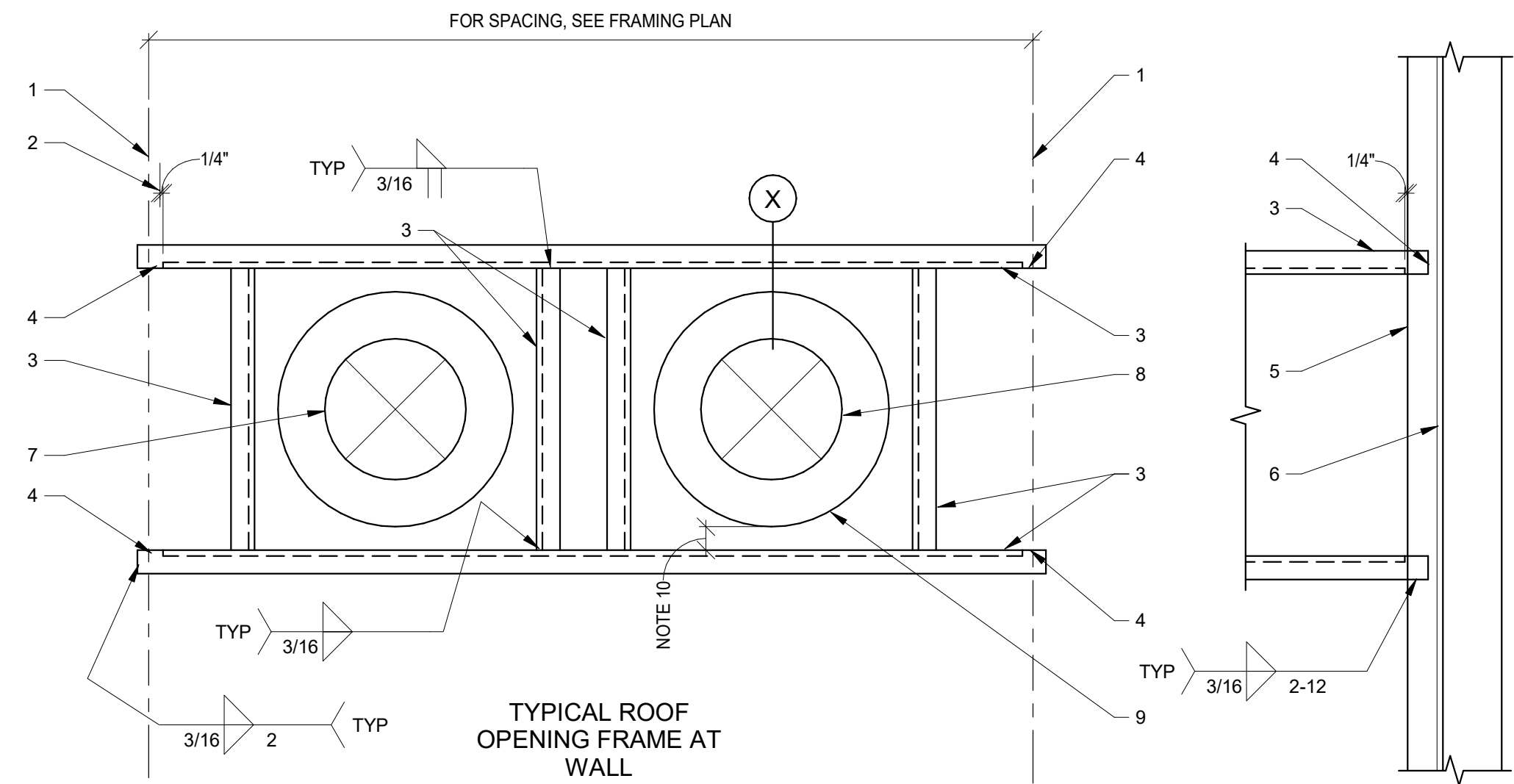
5150-1T-406-03

C2 TYPICAL BRIDGING AT STEEL JOISTS
NO SCALE

5250-2T-01 401-15

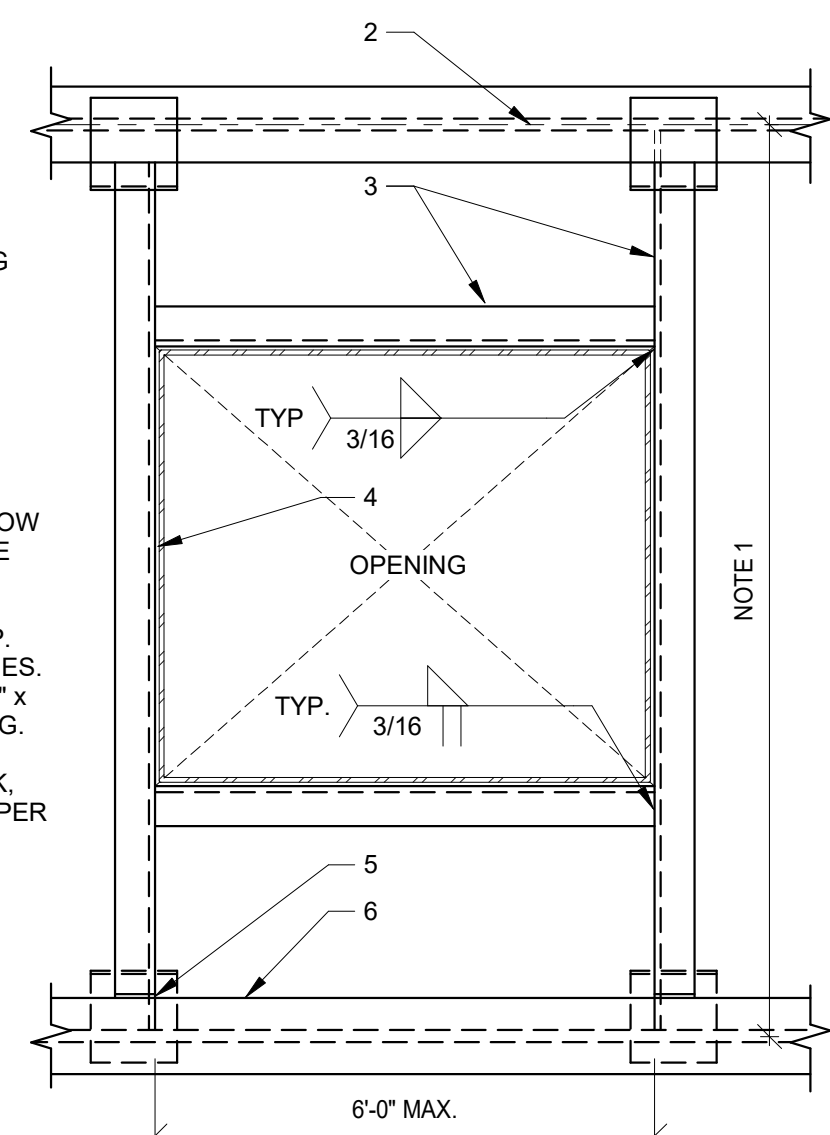
C3 WEB MEMBER AT CONCENTRATED LOAD AWAY FROM PANEL POINT
NO SCALE

5250-2T-01 401-12

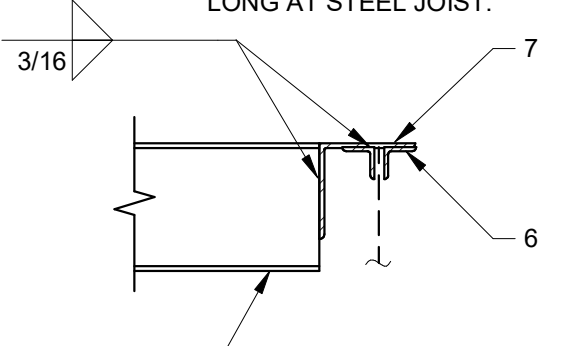


1. CENTERLINE OF FRAMING MEMBER.
2. EDGE OF FRAMING MEMBER.
3. L4x3x1/4"(LLV).
4. COPE VERTICAL LEG OF ANGLE.
5. STEEL LEDGER PER PLAN.
6. WALL.
7. OPENING IN ROOF DECK FOR ROOF DRAIN.
8. OPENING IN ROOF DECK FOR OVER FLOW ROOF DRAIN WHERE APPLICABLE.
9. DRAIN BODY AND UNDERDECK CLAMP.
10. 3" MAXIMUM ALL SIDES.
11. HSS 1 1/2"x1 1/2"x1/8" x LENGTH OF OPENING.
12. STEEL DECK - FOR DIRECTION OF DECK, SEE PLAN. ATTACH PER GSN.

1/8" 2-12
TYP
X SECTION



1. SEE PLAN FOR SPACING (12'-0" MAXIMUM).
2. CENTERLINE OF FRAMING MEMBER.
3. C8x11.5 STEEL BEAM.
4. 1/4" STEEL EDGE PLATE AROUND OPENING. STITCH WELD TO STEEL CHANNELS. TYPICAL.
5. CONNECTION PER TYPICAL STEEL BEAM TO STEEL BEAM DETAIL. REFER TO SECTION Z FOR CONNECTION AT STEEL JOIST.
6. STEEL BEAM OR JOIST SUPPORT.
7. STEEL ANGLE 5x5x5/16" x 5" LONG AT STEEL JOIST.



NOTE:
• STEEL DECK NOT SHOWN FOR CLARITY.
• VERIFY OPENING SIZE WITH APPROPRIATE TRADE.

NOMINAL BEAM DEPTH "D"	NUMBER OF 3/4" DIAMETER BOLTS (ASTM F1852)
UP TO 7"	2
8" - 11"	2
12" - 14"	3
15" - 17"	4
18" - 20"	5
21" - 23"	6
24" - 29"	7
30" - 32"	8
33" - 35"	9
36"	10

1. THE TYPICAL STEEL BEAM TO STEEL COLUMN OR STEEL BEAM TO STEEL BEAM CONNECTION CONSISTS OF 3/8" SINGLE SHEAR PLATES WITH BOLTS PER SCHEDULE. USE 9/16" SHEAR PLATES WHERE "D" = 27" OR GREATER.
2. FABRICATOR SHALL TAKE NECESSARY PRECAUTIONS AGAINST BOLT SHANK OUT. FABRICATOR'S OPTION:
• PROVIDE THICKER SHEAR PLATE.
• PROVIDE MULTIPLE WASHERS AT EITHER END OF BOLT (2 MAXIMUM PER END).

B1 TYPICAL ROOF DRAIN OPENING FRAME
NO SCALE

5154-2T-02 401-11

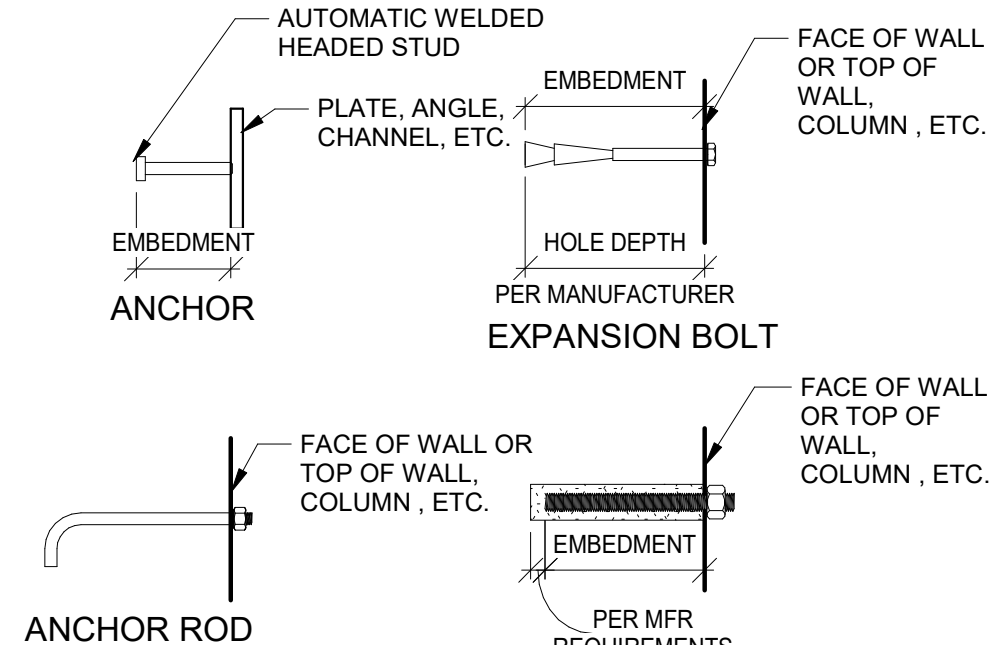
B3 PLAN - TYPICAL FRAME AT LARGE OPENING OR AT MECHANICAL UNIT SUPPORT
NO SCALE

5151-2T-03 401-08

B4 TYPICAL BOLT SCHEDULE FOR TYPICAL STEEL CONNECTIONS
NO SCALE

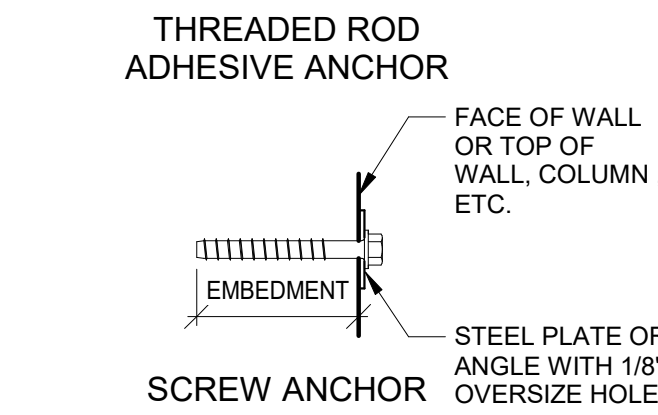
5100-2T-01 401-03

VERTICAL AND HORIZONTAL ANCHOR EMBEDMENT LENGTH FOR ANCHORS IN CONCRETE						
ANCHOR DIAMETER	ANCHOR AND ANCHOR RODS		EXPANSION ANCHORS	THREADED ROD ADHESIVE ANCHORS	REBAR ADHESIVE ANCHORS	SCREW ANCHORS
	VERTICAL	HORIZONTAL				
1/2" (#4)	7"	4"	5"	4"	4"	4"
5/8" (#5)	7"	4 1/2"	6 1/8"	5"	5"	4 3/8"
3/4" (#6)	7"	5"	7 1/2"	6"	6"	6 1/4"
7/8" (#7)	8"	6"	-	7"	7"	-
1" (#8)	9"	7"	9 3/4"	8"	8"	-
1 1/4"	11"	9"	-	-	-	-
1 1/2"	12"	10"	-	-	-	-



- NOTES:**
• FOR APPROVED MANUFACTURERS OF EXPANSION BOLTS, ADHESIVE ANCHORS AND SCREW ANCHORS IN CONCRETE AND MASONRY, SEE GSN.
• PROVIDE ANCHORS, ANCHOR RODS, EXPANSION BOLTS, ADHESIVE ANCHORS, AND SCREW ANCHORS PER THIS SCHEDULE UNLESS NOTED OTHERWISE ON PLAN OR DETAILS.
• ANCHORS, ANCHOR RODS, EXPANSION BOLTS, ADHESIVE ANCHORS, AND SCREW ANCHORS USED IN MASONRY SHALL BE INSTALLED IN GROUTED CELLS, IF GROUTED CELLS ARE NOT ENCOUNTERED, BREAK INTO CELL AND GROUT SOLID FOR 2" MINIMUM ABOVE AND BELOW BOLT LOCATION.
• ANCHOR RODS, EXPANSION BOLTS, THREADED ANCHORS, AND SCREW ANCHORS SHALL BE INSTALLED WITH STEEL WASHERS.
• THREADED ROD AND ADHESIVE SHALL BE SUPPLIED BY THE SAME APPROVED MANUFACTURER.

VERTICAL AND HORIZONTAL ANCHOR EMBEDMENT LENGTH FOR ANCHORS IN MASONRY								
ANCHOR DIAMETER	ANCHOR AND ANCHOR RODS		EXPANSION ANCHORS		THREADED ROD ADHESIVE ANCHORS		SCREW ANCHORS	
	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL
1/2" (#4)	5"	4"	3"	3 1/2"	4 1/2"	4 1/2"	4 1/2"	4"
5/8" (#5)	6 1/2"	4 1/2"	3 1/2"	4 3/8"	5 5/8"	5 5/8"	4 1/2"	5"
3/4" (#6)	7"	5"	-	5 1/4"	-	6 1/2"	-	5 1/2"



A3 TYPICAL PIPE PASSING THROUGH FOUNDATION STEM WALL
NO SCALE

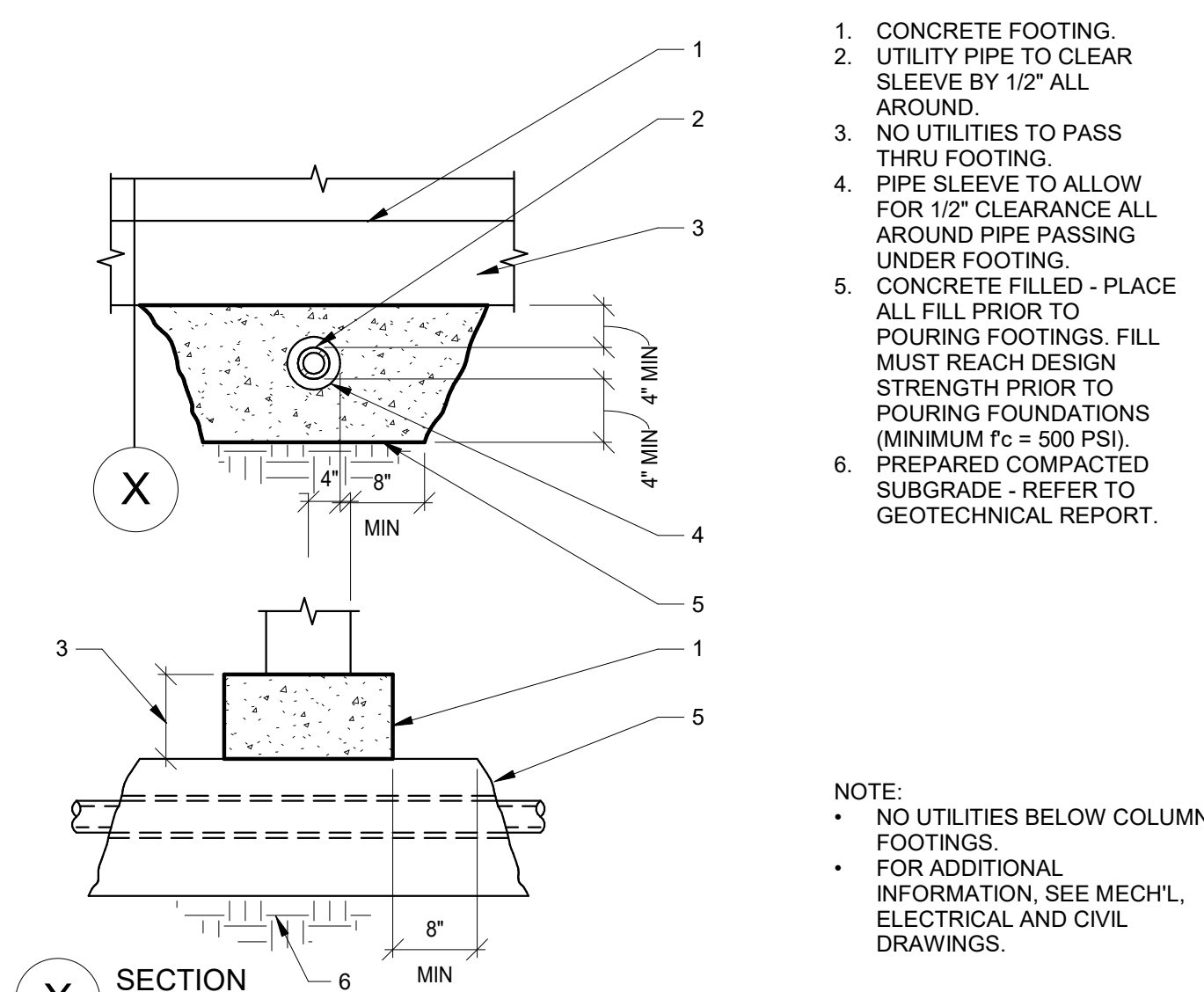
3250-1T-02 105-19

A1 TYPICAL ANCHOR, ANCHOR ROD, EXPANSION BOLT, ADHESIVE ANCHORS, AND SCREW ANCHOR SCHEDULE
NO SCALE

5000-123T-01 401-01

A4 TYPICAL PIPE PASSING BELOW FOOTING
NO SCALE

3250-1T-01 105-18A



1. CONCRETE FOOTING.
2. UTILITY PIPE TO CLEAR SLEEVE BY 1/2" ALL AROUND.
3. NO UTILITIES TO PASS THRU FOOTING.
4. PIPE SLEEVE TO ALLOW FOR 1/2" CLEARANCE ALL AROUND PIPE PASSING UNDER FOOTING.
5. CONCRETE FILLED - PLACE ALL FILL PRIOR TO POURING FOOTINGS. FILL MUST REACH DESIGN STRENGTH PRIOR TO POURING FOUNDATIONS (MINIMUM $f_c = 500$ PSI).
6. PREPARED COMPACTED SUBGRADE - REFER TO GEOTECHNICAL REPORT.

NOTE:
• NO UTILITIES BELOW COLUMN FOOTINGS.
• FOR ADDITIONAL INFORMATION, SEE MECH'L, ELECTRICAL AND CIVIL DRAWINGS.

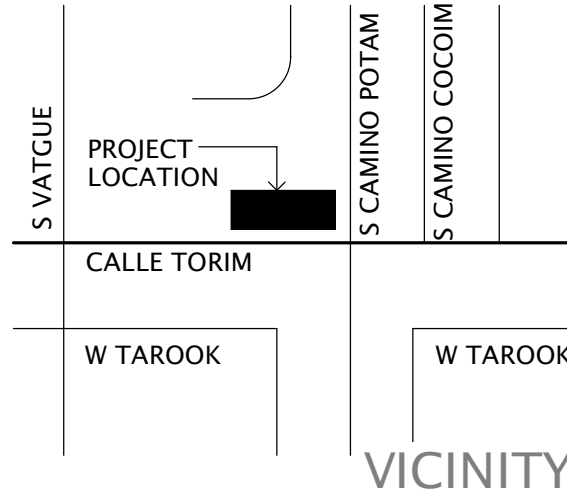
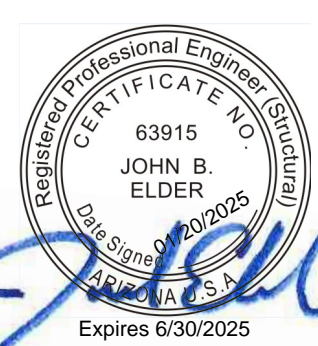
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TUSCON, AZ 85757

MICRO-MARKET

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REVISION
NUMBER DESCRIPTION DATE

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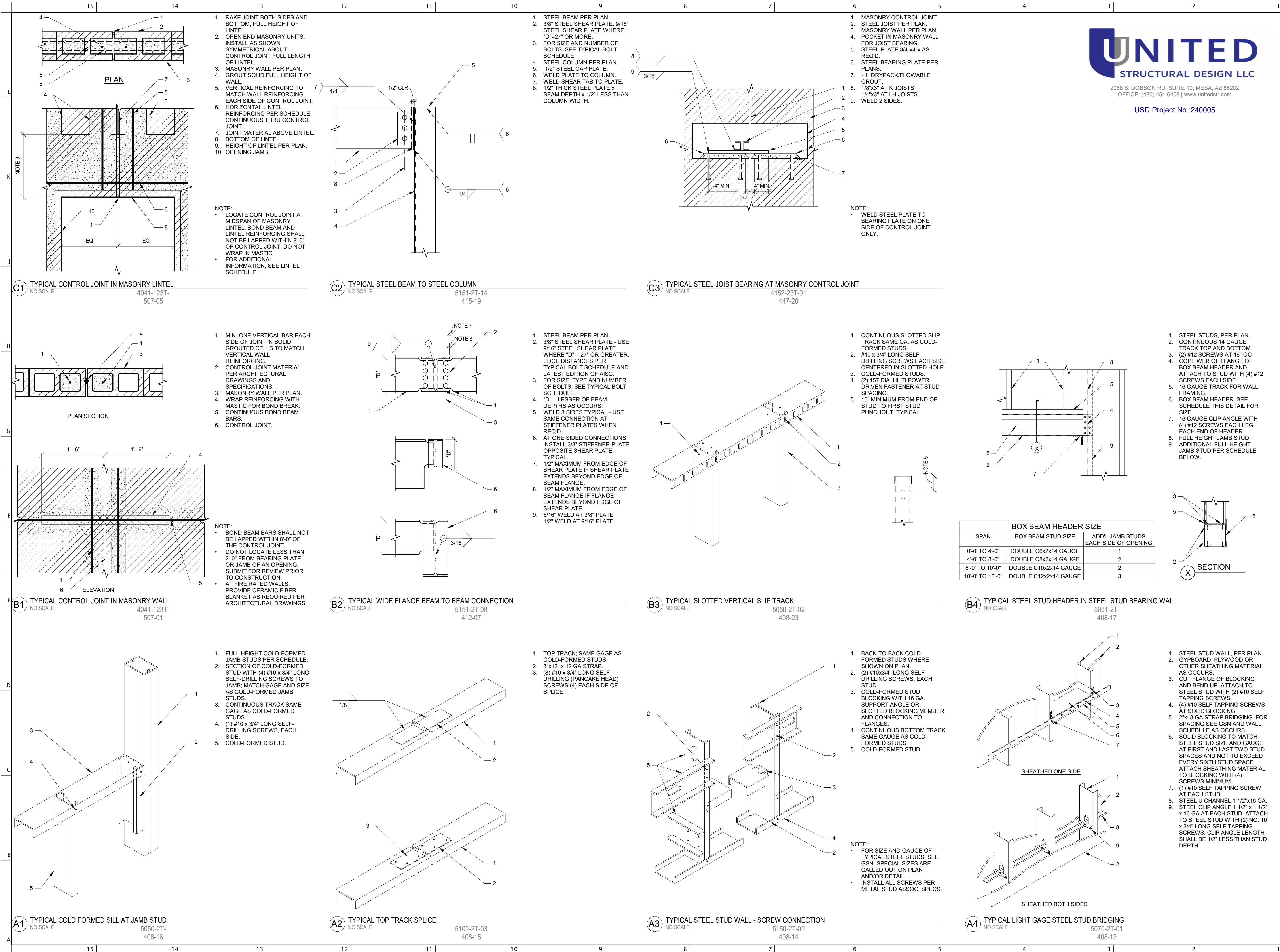
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SHEET TITLE

TYPICAL DETAIL

DATE 01.11.2024
SHEET

S1.2



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USD Project No.:240005



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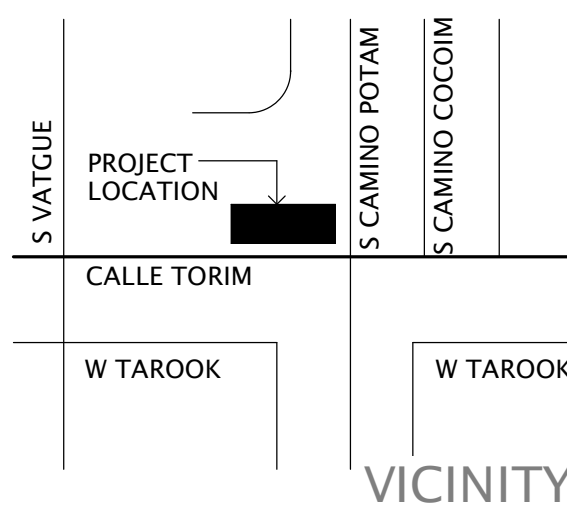


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PASCUA YAQUI TRIBE

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TUSCON, AZ 85757

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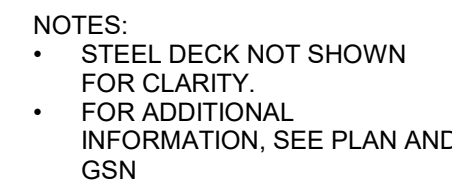
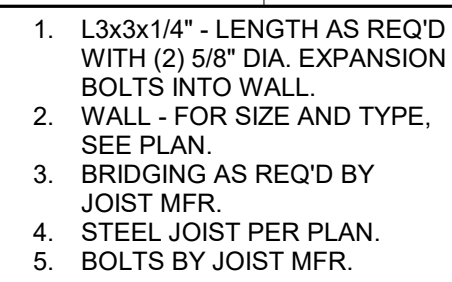
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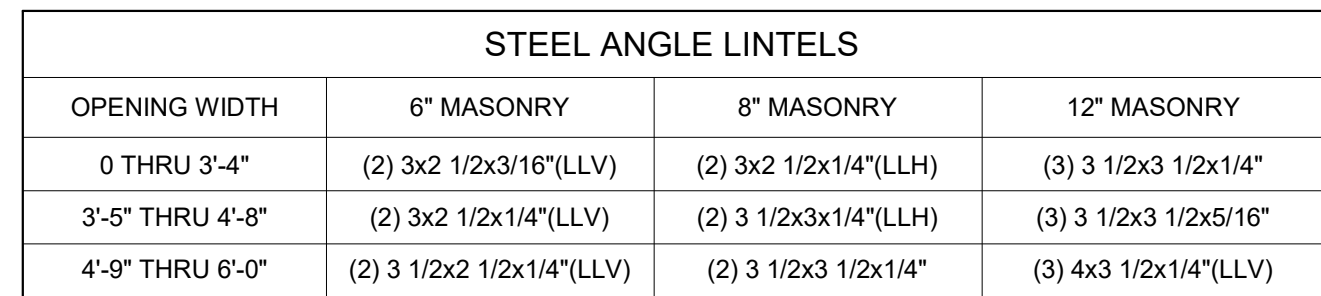
TYPICAL DETAIL

DATE 01.11.2024
SHEET

S1.3

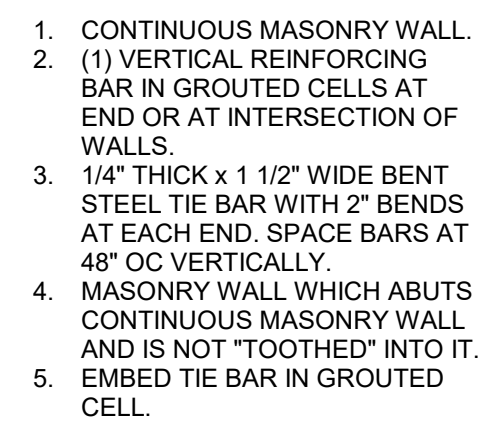


4052-3T-0
401-16

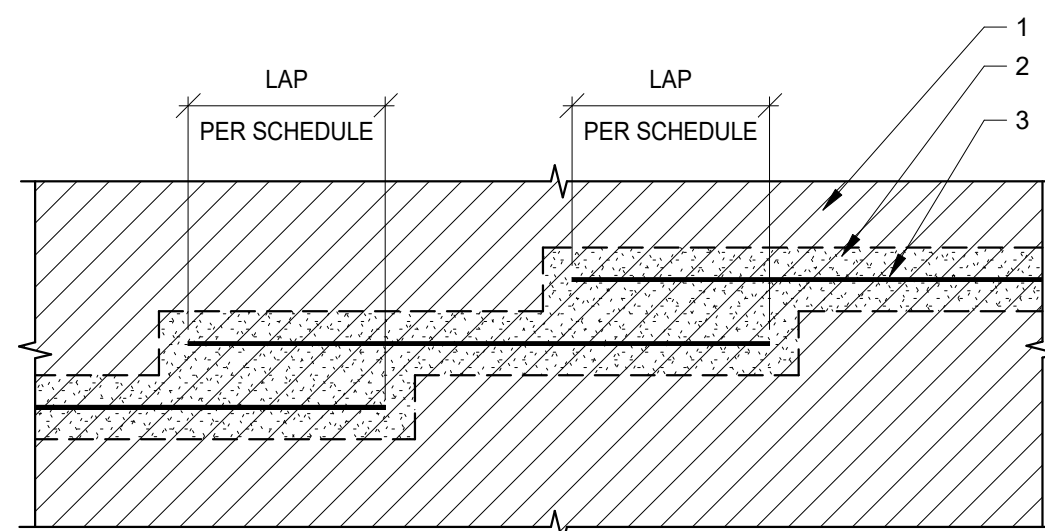


MASONRY LINTELS			
OPENING WIDTH	6" MASONRY	8" MASONRY	12" MASONRY
0 THRU 3'-4"	HEIGHT: 16" (2) #4 BOTTOM	HEIGHT: 16" (2) #5 BOTTOM	HEIGHT: 16" (2) #5 BOTTOM
3'-5" THRU 4'-8"	HEIGHT: 24" (2) #4 BOTTOM	HEIGHT: 24" (2) #5 BOTTOM	HEIGHT: 24" (2) #5 BOTTOM
4'-9" THRU 6'-0"	HEIGHT: 32" (2) #4 BOTTOM	HEIGHT: 32" (2) #5 BOTTOM	HEIGHT: 32" (2) #5 BOTTOM

4000-23T-0
504-01A

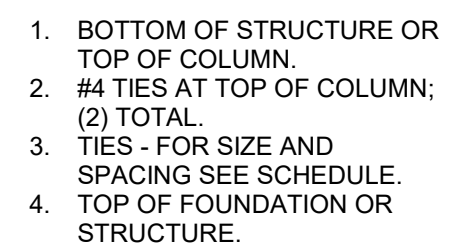


4040-123T-01
501-07

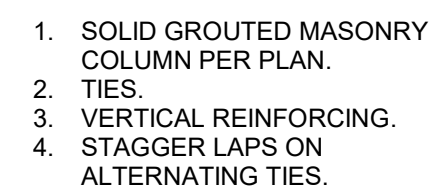


4000-12T-0
510-11

4000-01T-0
510-03



4000-013T-0
530-01

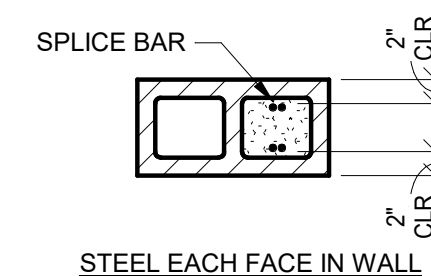


4000-1T-01 M
530-05

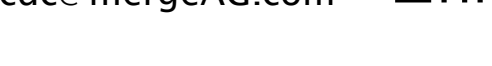
MASONRY LAP SPLICE LENGTH IN INCHES									
WALL THICKNESS		6" WALL		8" WALL		10" WALL		12" WALL	
BAR SIZE	BAR GRADE	CENTER	EACH FACE	CENTER	EACH FACE	CENTER	EACH FACE	CENTER	EACH FACE
#4	Gr 40	20"	NP	20"	20"	20"	20"	20"	20"
#4	Gr 60	21"	NP	21"	26"	21"	26"	21"	26"
#5	Gr 60	32"	NP	32"	40"	32"	40"	32"	40"
#6	Gr 60	NP	NP	43"	54"	43"	54"	43"	54"
#7	Gr 60	NP	NP	60"	63"	60"	63"	60"	63"
#8	Gr 60	NP	NP	NP	NP	72"	72"	72"	72"

1. LAPS APPLY TO BOTH VERTICAL AND HORIZONTAL REINFORCING.
2. DO NOT SPLICE HORIZONTAL BARS WITHIN 8'-0" OF CONTROL JOINTS.
3. LAP LENGTHS BASED ON A CALCULATED STEEL STRESS (f_s) NOT EXCEEDING 80 PERCENT OF THE ALLOWABLE STEEL STRESS (F_s).

4000-123T-0
501-105



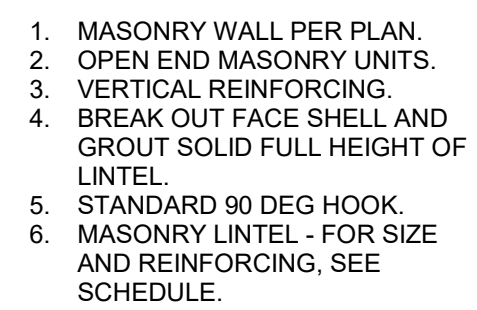
4040-123T-
501-08



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HEET TITLE

TYPICAL DETAIL

DATE	01.11.2019
SHEET	01

S1.4



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ISOLATED FOOTING (F) SCHEDULE

NOTE:
IF FIELD DIMENSION OF FOOTING IS LARGER THAN SHOWN IN SCHEDULE, CONTRACTOR TO PLACE ADDITIONAL REINFORCING TO MAINTAIN ACI 318 MINIMUM AREA OF STEEL REQUIREMENTS.

MARK	WIDTH	LENGTH	DEPTH	REINFORCING
F2	4' - 0"	4' - 0"	1' - 0"	(5) #5 EACH WAY, BOTTOM
F3	5' - 0"	5' - 0"	1' - 6"	(6) #5 EACH WAY, TOP AND BOTTOM
F4	6' - 0"	6' - 0"	1' - 6"	(7) #5 EACH WAY, TOP AND BOTTOM

MASONRY COLUMN (MC) SCHEDULE

NOTES:
-MASONRY COLUMNS TO EXTEND FULL HEIGHT OF MASONRY WALL
-REFER TO TYPICAL DETAILS FOR TIE SPACING

MARK	SIZE	REINFORCING		REMARKS
		VERTICAL	TIES	
MC2	8"x24"	(6) #5	#3 AT 8" O.C.	

STEEL STUD WALL (W) SCHEDULE

MARK	STUD SIZE	STUD SPACING	REMARKS
W1	600S162-54	1'-4" O.C.	

LEDGER (L) SCHEDULE

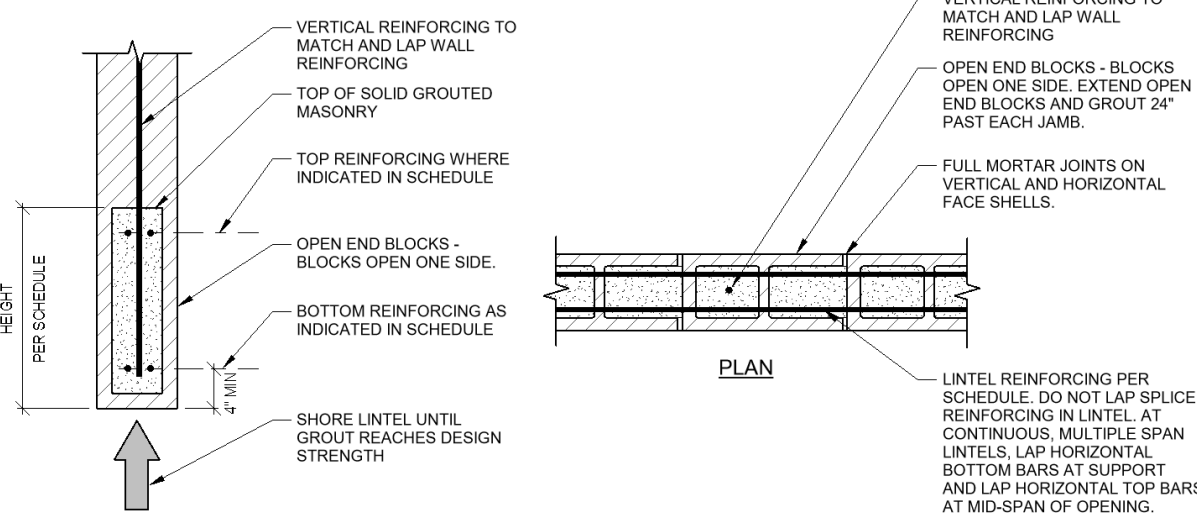
NOTE:
SPLICE LEDGERS PER TYPICAL DETAIL.

MARK	MEMBER SIZE	NOTES
L1	L3 1/2X3 1/2X1/4	EMBED PLATES AT 48" O.C. AND 12" MAX FROM END OF WALL
L2	L3 1/2X3 1/2X1/4	EMBED PLATES AT 48" O.C. AND 12" MAX FROM END OF WALL MIN (2) WELD PLATES BETWEEN EACH JOIST
L3	T6.125"x2.5"x16 GA.	(3) #12 SCREWS AT EACH STUD

STEEL COLUMN (C) SCHEDULE

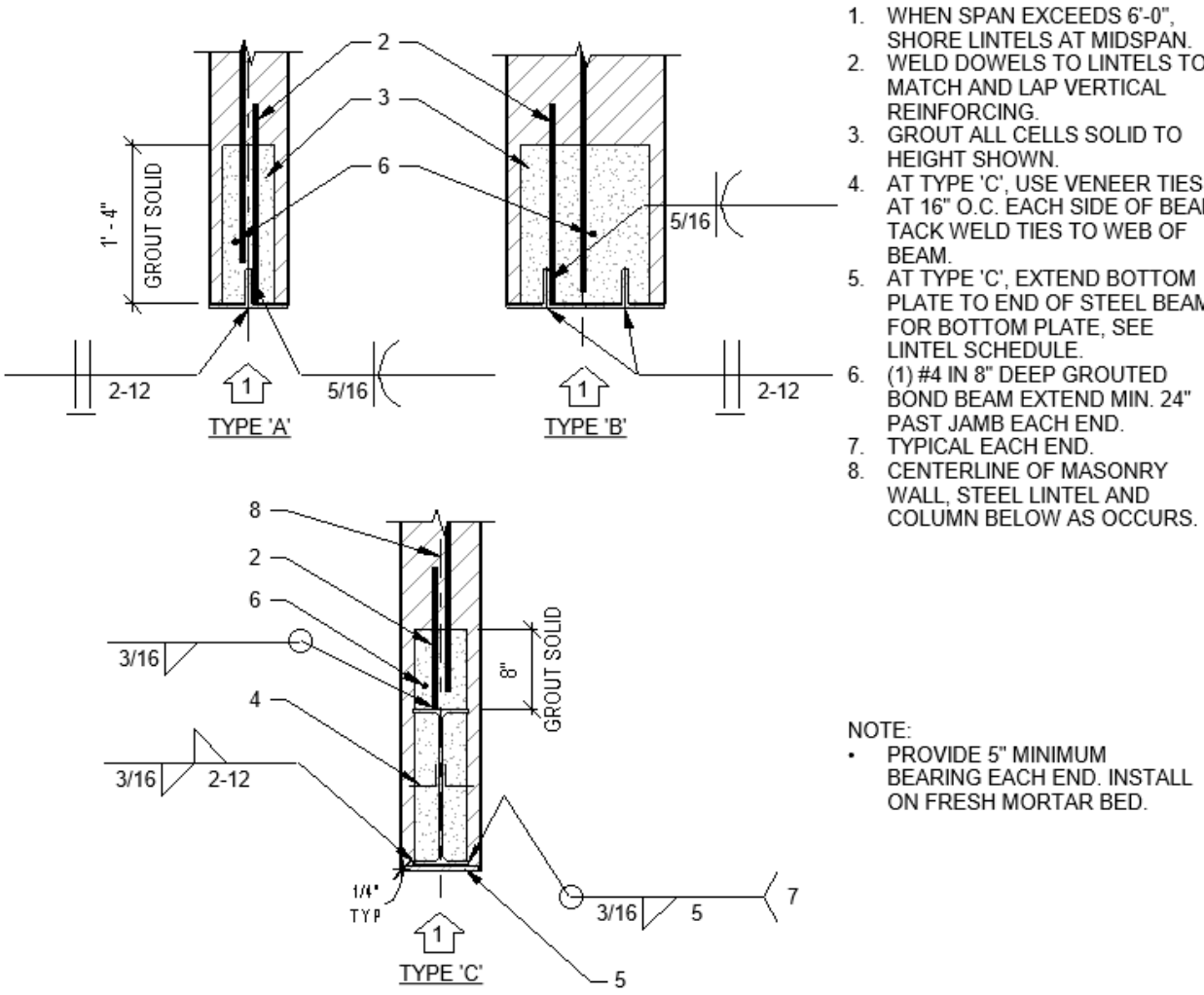
MARK	SIZE	BASE PLATE AND ANCHORAGE
C1	HSS6X6X5/16	3/4"x13"x13" STEEL BASEPLATE WITH (4) 3/4" DIAMETER ANCHORS WITH 7" EMBEDMENT
C2	HSS4X4X3/8	1/2"x11"x11" STEEL BASE PLATE WITH (4) 3/4" DIA. ANCHOR RODS WITH 7" EMBEDMENT
C3	HSS12X6X3/8	1"x18"x18" STEEL BASEPLATE WITH (4) 3/4" DIAMETER ANCHORS WITH 7" EMBEDMENT
C4	PipeSTD	1/2"x12"x12" STEEL BASEPLATE WITH (4) 3/4" DIAMETER ANCHORS WITH 7" EMBEDMENT

MASONRY LINTEL (ML) SCHEDULE



MARK	DEPTH	REINFORCING	REMARKS
ML1	16"	(2) #5 BOTTOM	
ML4	2' 4"	(2) #6 TOP AND BOTTOM	

STEEL LINTEL (SL) SCHEDULE



MARK	MEMBER SIZE	LINTEL TYPE	NOTES
SL4	W16X31	'C'	WITH 3/8" CONTINUOUS STEEL PLATE

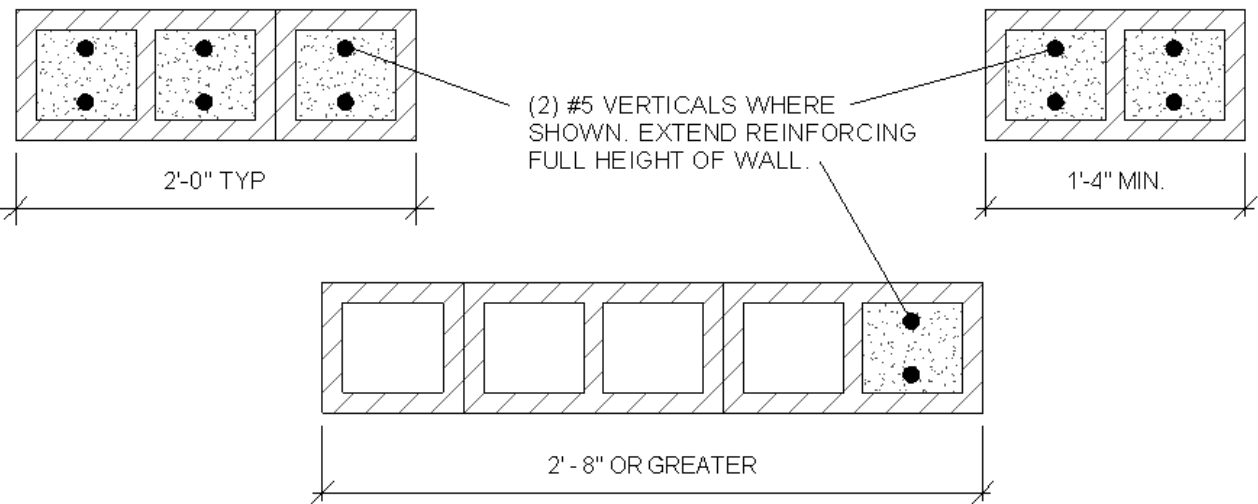
CONTINUOUS FOOTING (WF) SCHEDULE

NOTE:
IF FIELD DIMENSION OF FOOTING IS LARGER THAN SHOWN IN SCHEDULE, CONTRACTOR TO PLACE ADDITIONAL REINFORCING TO MAINTAIN ACI 318 MINIMUM AREA OF STEEL REQUIREMENTS.

MARK	WIDTH	DEPTH	REINFORCING		NOTES
			TRANSVERSE	CONTINUOUS	
WF1	6' - 0"	1' - 6"	#5 AT 12" O.C.	(7) #5, TOP AND BOTTOM	
WF2	3' - 0"	1' - 0"	#5 AT 12" O.C.	(4) #5, BOTTOM	
WF3	4' - 6"	1' - 0"	#5 AT 12" O.C.	(5) #5, BOTTOM	

MASONRY WALL (MW) SCHEDULE

TYPICAL JAMB REINFORCING - U.N.O.



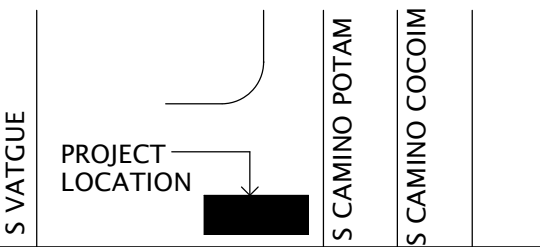
MARK	THICKNESS	REINFORCING	NOTES
MW1	8"	#5 AT 40" O.C. VERTICAL	
MW2	8"	(2) #5 AT 8" O.C	

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CALLE TORIM	W TAROOK	W TAROOK
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VICINITY

REVISION	NUMBER	DESCRIPTION	DATE
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SHEET TITLE

SCHEDULES

DATE	01.11.2024
SHEET	

S1.5



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KEYNOTES

- 101 4" THICK CONCRETE SLAB ON GRADE WITH 6x6-W2.9xW2.9 WWR CENTERED IN SLAB OVER 4" A.B.C. FILL. REFER TO SOILS REPORT FOR SUBBASE REQUIREMENTS.
- 104 (2) #3x2'-0" CENTERED IN SLAB WHERE SHOWN ON PLAN AND AS REQUIRED PER TYPICAL DETAIL A3/S1.1.
- 105 5" CONCRETE SLAB OVER SUBGRADE WITH #3 AT 16" O.C. EACH WAY. PARALLEL TO EXTERIOR WALL. EXTEND REINFORCING SLAB 18" MINIMUM PAST DOOR JAMB OR EDGE OF SLAB WHICHEVER IS LONGER. PERPENDICULAR TO EXTERIOR WALL. EXTEND REINFORCED SLAB 48" MINIMUM PAST DOOR SILL. IN ALL CASES THE REINFORCED SLAB EXTENDS TO AN EDGE OF SLAB OR SCORE LINE. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 108 APPROXIMATE LOCATION OF FLOOR DRAIN. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND LOCATION.

FOUNDATION NOTES

- A. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. DIMENSIONS, ELEVATIONS WHERE SHOWN ARE TO BE USED AS AN AID AND SHALL BE COORDINATED WITH THE ARCHITECT OR GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. DO NOT USE CONC C.J. FOR LOCATING BUILDING ELEMENTS.
- B. FOR ADDITIONAL INFORMATION, REFERENCE GENERAL STRUCTURAL NOTES.
- C. ANY REFERENCE TO ELEVATIONS ARE BASED ON A PROJECT DATUM OF 0'-0" AT FINISH FLOOR OF 1ST FLOOR. FOR MORE INFORMATION SEE ARCHITECTURAL DRAWINGS.
- D. WF1, WF2, ETC. AS SHOWN ON PLAN INDICATES CONTINUOUS WALL FOOTING. SEE SCHEDULE ON SHEET S1.5. FOOTING SHALL BE CENTERED UNDER WALL UNO
- E. F1, F2, ETC. AS SHOWN ON PLAN INDICATES ISOLATED FOOTING. SEE SCHEDULE ON SHEET S1.5. FOOTING SHALL BE CENTERED UNDER COLUMN UNO
- F. FOUNDATION ELEVATIONS NOTED ON PLANS AND IN GSN ARE MINIMUMS. FOUNDATION CONTRACTOR SHALL COORDINATE WITH SOIL REPORT AND ALL TRADES TO ENSURE FOUNDATION ELEVATIONS ARE ADEQUATE. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
- G. C1, C2, ETC. AS SHOWN ON PLAN INDICATES STEEL COLUMN. SEE SCHEDULE ON SHEET S1.5.
- H. W1, W2, ETC. AS SHOWN ON PLAN INDICATES WALL TYPES. SEE SCHEDULE ON SHEET S1.5. SEE ARCHITECTURAL DRAWINGS FOR EXACT WALL LOCATIONS.
- I. MW1, MW2, ETC. AS SHOWN ON PLAN INDICATES MASONRY WALL TYPES. SEE SCHEDULE ON SHEET S1.5. SEE ARCHITECTURAL DRAWINGS FOR EXACT WALL LOCATIONS.
- J. CONC. C.J. AS SHOWN ON PLAN INDICATES LOCATION OF CONCRETE CONTROL JOINT. CONTROL JOINTS MAY BE KEYPED OR SAWCUT AT CONTRACTORS OPTION. CONC. C.J.'S SHALL BE PLACED WITHIN 24 HOURS OF FINISHING. SEE GSN AND TYPICAL DETAILS.
- K. MCJ AS SHOWN ON PLAN INDICATES MASONRY CONTROL JOINT. JOINTS ARE FULL HEIGHT OF STRUCTURE UNO SEE GSN AND TYPICAL DETAILS.
- L. BUILDING CONCRETE SLAB ON GRADE SHALL BE AS NOTED ON PLAN. VERIFY EXACT SIZE AND LOCATION OF ALL DEPRESSED, RAISED, OR SLOPED CONCRETE SLABS WITH ARCHITECTURAL DRAWINGS. SEE GSN AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



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PROJECT
MICRO-MARKET

5010 W CALLE TORM
TUCSON, AZ 85757

S	VATGUE	PROJECT LOCATION	S	CAMINO POTAM	S	CAMINO COCOM
		CALLE TORM				

D	W TAROOK	W TAROOK
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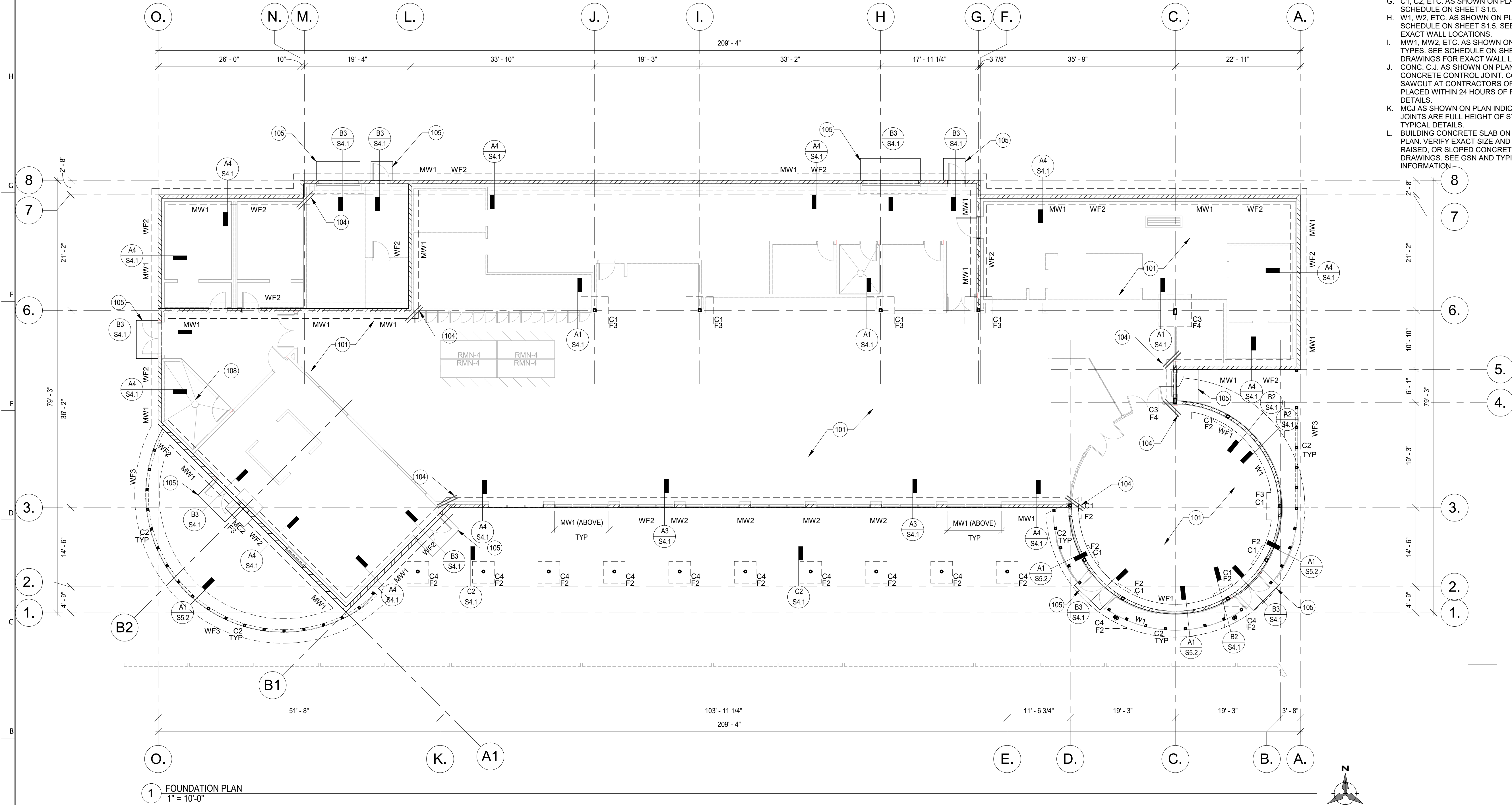
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SHEET TITLE

FOUNDATION PLAN

DATE 01.11.2024
SHEET

S2.1





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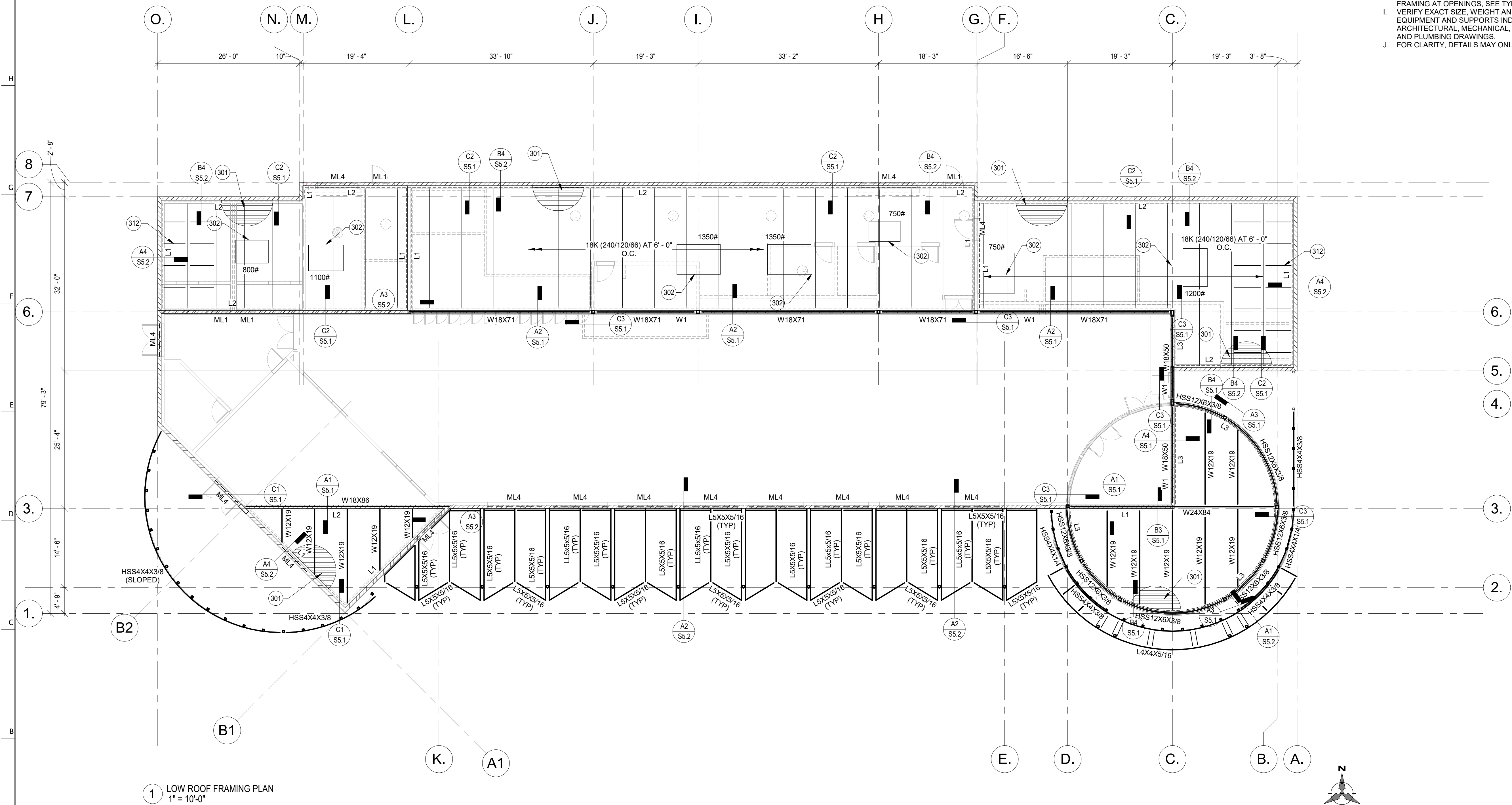
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KEYNOTES

- 301 1 1/2"x20 GA. STEEL DECK. ATTACH PER GSN.
302 APPROXIMATE LOCATION OF MECHANICAL UNIT. FOR FRAMING AT MECHANICAL UNITS AND AROUND OPENINGS, REFER TO TYPICAL DETAILS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT SIZE AND LOCATION.
312 BRIDGING AT 4'-0" O.C. FOR TWO BAYS MINIMUM. ATTACH PER DETAIL C1/S1.4.

ROOF FRAMING NOTES

- A. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. DIMENSIONS, ELEVATIONS WHERE SHOWN ARE TO BE USED AS AN AID AND SHALL BE COORDINATED WITH THE ARCHITECT OR GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.
B. FOR ADDITIONAL INFORMATION, REFERENCE GENERAL STRUCTURAL NOTES.
C. ANY REFERENCE TO ELEVATIONS ARE BASED ON A PROJECT DATUM OF 0'-0" AT FINISH FLOOR OF 1ST FLOOR. FOR MORE INFORMATION SEE ARCHITECTURAL DRAWINGS.
D. ML1, ML2, ETC. AS SHOWN ON PLAN INDICATES MASONRY LINTEL. SEE SCHEDULE ON SHEET S1.5.
E. SL1, SL2, ETC. AS SHOWN ON PLAN INDICATES STEEL LINTEL. SEE SCHEDULE ON SHEET S1.5.
F. FOR MISCELLANEOUS MASONRY LINTELS NOT SHOWN, SEE TYPICAL DETAILS. MASONRY CONTRACTOR TO COORDINATE WITH OTHER TRADES FOR EXACT SIZE AND LOCATIONS REQUIRED.
G. L1, L2, ETC. AS SHOWN ON PLAN INDICATES LEDGER. SEE SCHEDULE ON SHEET S1.5.
H. FOR CLARITY, ALL ROOF OPENINGS MAY NOT BE SHOWN ON FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.
I. VERIFY EXACT SIZE, WEIGHT AND LOCATION OF MECHANICAL UNITS, EQUIPMENT AND SUPPORTS INDICATED ON PLAN WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS.
J. FOR CLARITY, DETAILS MAY ONLY SHOW ONE SIDE OF CONNECTION.



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S VATGUE	PROJECT - LOCATION	S CAMINO POTAM	S CAMINO COCOM
	CALLE TORIM	W TAROOK	W TAROOK

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ROOF FRAMING PLAN

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USD Project No.:240005

ROOF FRAMING NOTES

- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. DIMENSIONS, ELEVATIONS WHERE SHOWN ARE TO BE USED AS AN AID AND SHALL BE COORDINATED WITH THE ARCHITECT OR GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.
- FOR ADDITIONAL INFORMATION, REFERENCE GENERAL STRUCTURAL NOTES.
- ANY REFERENCE TO ELEVATIONS ARE BASED ON A PROJECT DATUM OF 0'-0" AT FINISH FLOOR OF 1ST FLOOR. FOR MORE INFORMATION SEE ARCHITECTURAL DRAWINGS.
- ML1, ML2, ETC. AS SHOWN ON PLAN INDICATES MASONRY LINTEL. SEE SCHEDULE ON SHEET S1.5.
- SL1, SL2, ETC. AS SHOWN ON PLAN INDICATES STEEL LINTEL. SEE SCHEDULE ON SHEET S1.5.
- FOR MISCELLANEOUS MASONRY LINTELS NOT SHOWN, SEE TYPICAL DETAILS. MASONRY CONTRACTOR TO COORDINATE WITH OTHER TRADES FOR EXACT SIZE AND LOCATIONS REQUIRED.
- L1, L2, ETC. AS SHOWN ON PLAN INDICATES LEDGER. SEE SCHEDULE ON SHEET S1.5.
- FOR CLARITY, ALL ROOF OPENINGS MAY NOT BE SHOWN ON FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS. FOR FRAMINGS AT OPENINGS, SEE TYPICAL DETAILS.
- VERIFY EXACT SIZE, WEIGHT AND LOCATION OF MECHANICAL UNITS, EQUIPMENT AND SUPPORTS INDICATED ON PLAN WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS.
- FOR CLARITY, DETAILS MAY ONLY SHOW ONE SIDE OF CONNECTION.



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SEAL

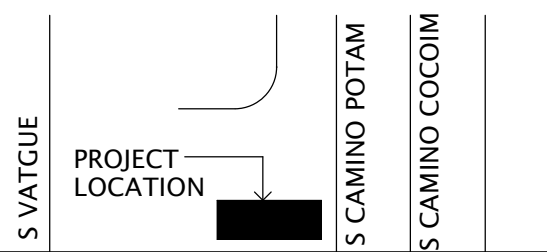


OWNER INFORMATION
PASCUA YAQUI TRIBE

7490 S CAMINO DE OESTE
TUCSON, AZ 85757

PROJECT
MICRO-MARKET

5010 W CALLE TORIM
TUCSON, AZ 85757



VICINITY

REVISION	NUMBER	DESCRIPTION	DATE
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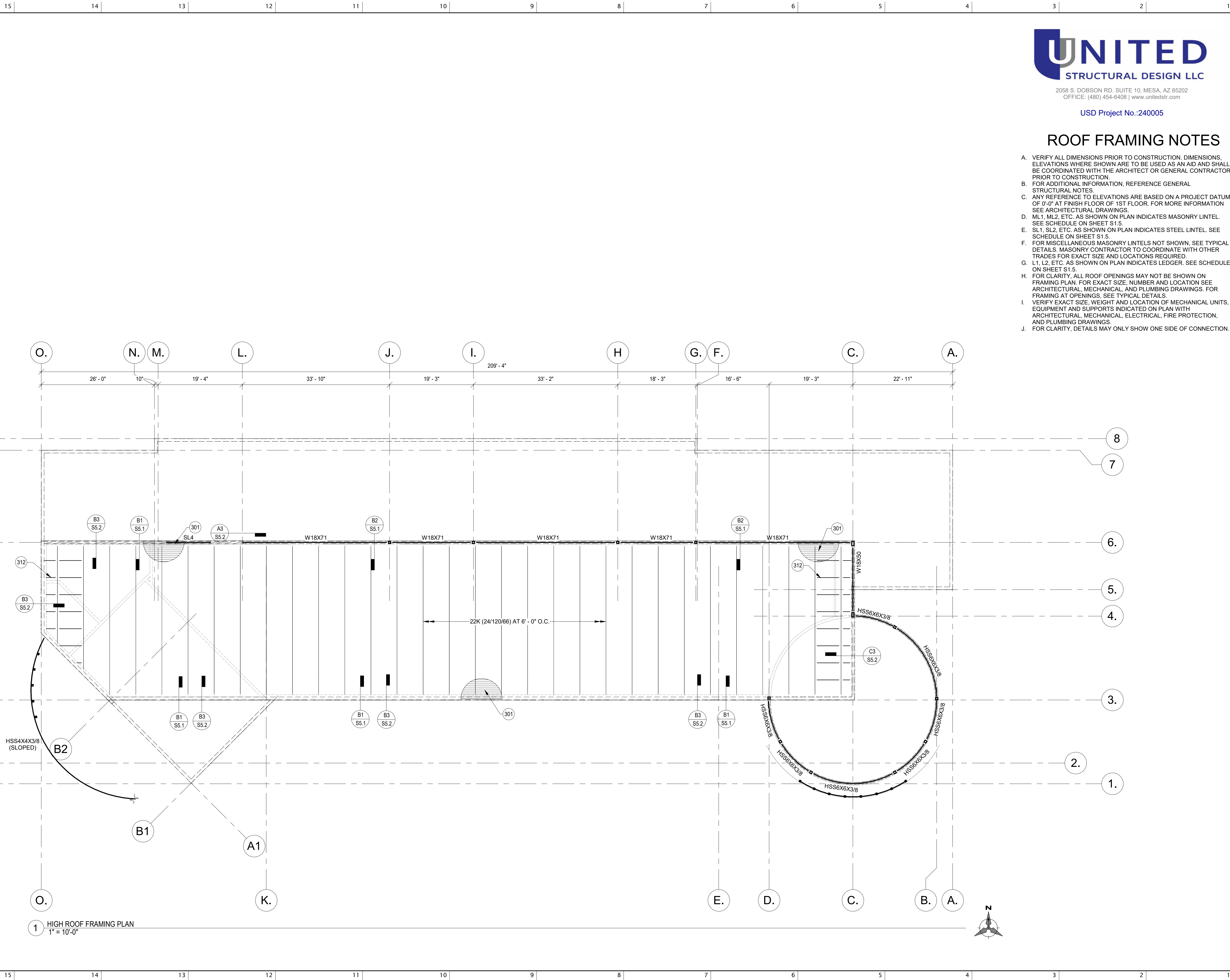
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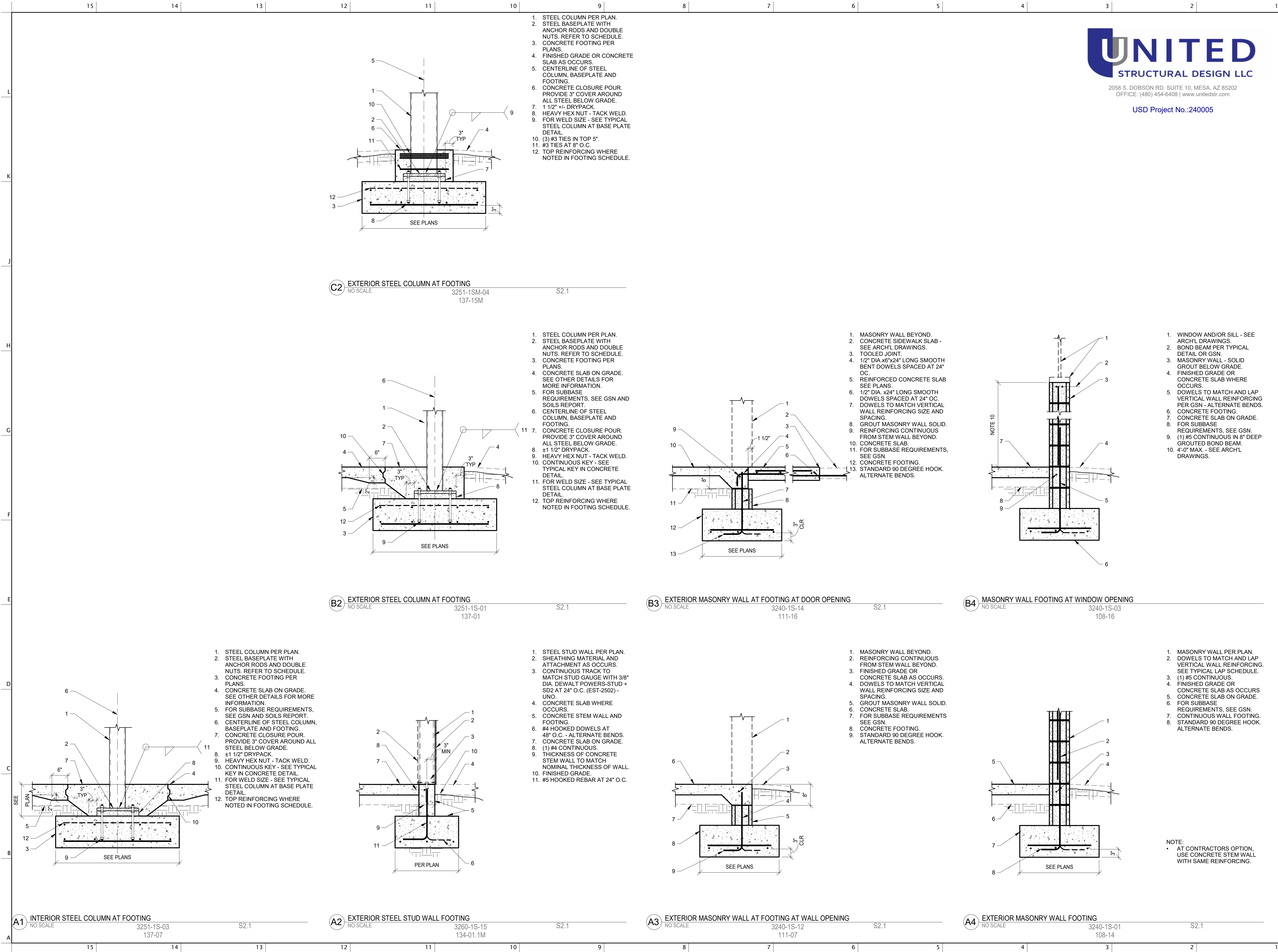
SHEET TITLE

**HIGH ROOF
FRAMING PLAN**

DATE 01.11.2024
SHEET

S3.2





2058 S. DOBSON RD. SUITE 10, MESA, AZ 85202
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USD Project No.:240005



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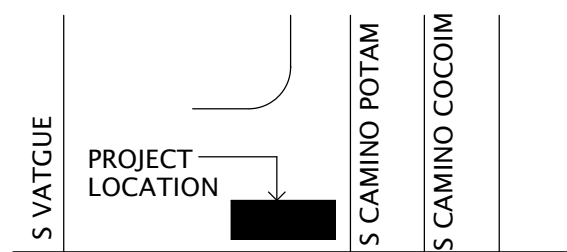


OWNER INFORMATION
PASCUA YAQUI TRIBE

7490 S CAMINO DE OESTE
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PROJECT
MICRO-MARKET

5010 W CALLE TORIM
TUSCON, AZ 85757



REVISION	NUMBER	DESCRIPTION	DATE

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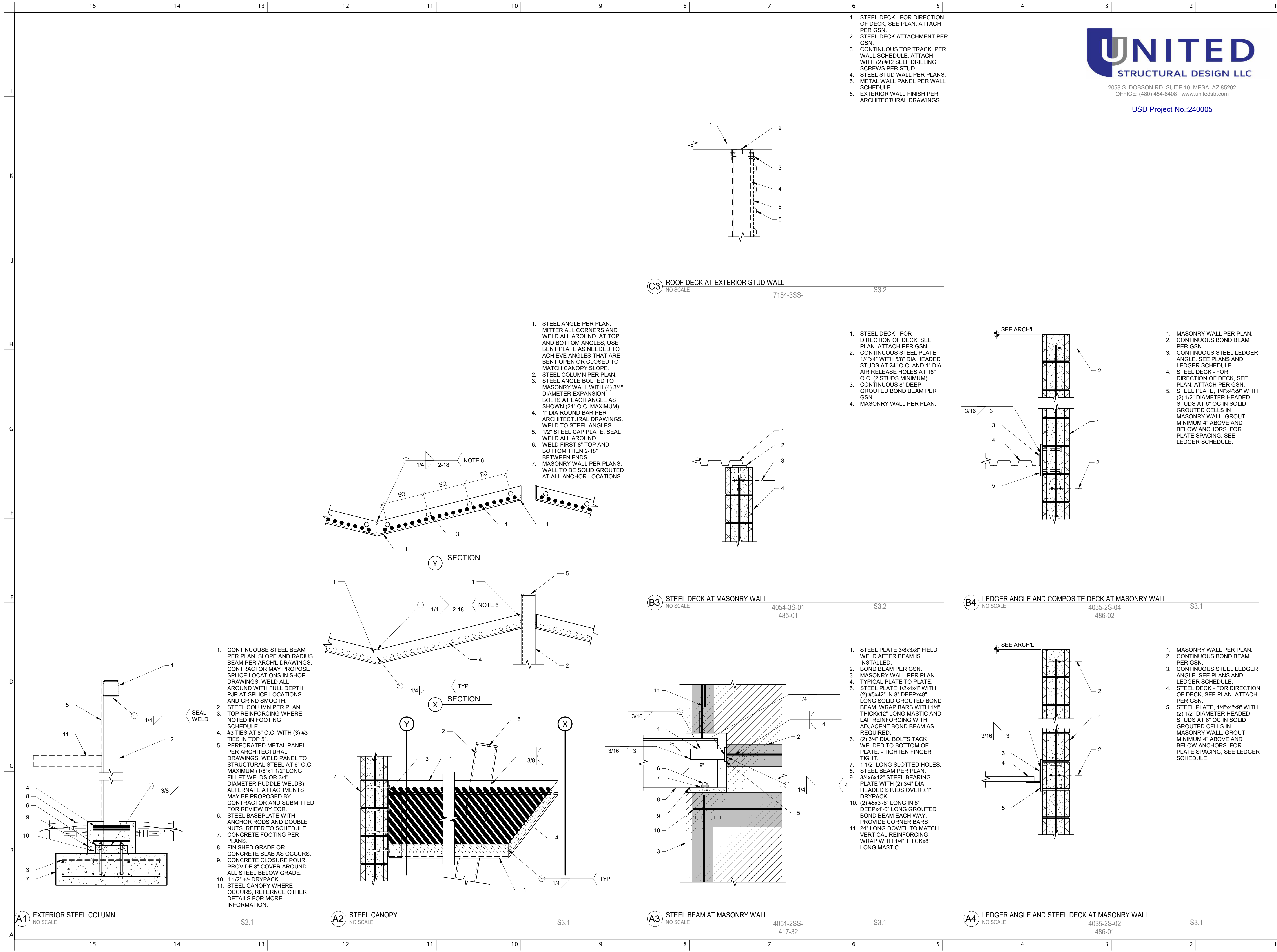
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SHEET TITLE

**FOUNDATION
DETAILS**

DATE 01.11.2024
SHEET

S4.1



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USD Project No.:240005



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PASCUA YAQUI TRIBE

7490 S CAMINO DE OESTE
TUSCON, AZ 85757

MICRO-MARKET

5010 W CALLE TORIM
TUSCON, AZ 85757

S	VATGUE	PROJECT LOCATION	S	CAMINO POTAM	S	CAMINO COCOM
		CALLE TORIM				
		W TAROOK				

VICINITY

REVISION	NUMBER	DESCRIPTION	DATE
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SHEET TITLE

FRAMING
DETAILS

DATE 01.11.2024
SHEET

S5.2

15

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1

DUCTWORK CONSTRUCTION AND LEAKAGE SCHEDULE

SYSTEM	DUCT PRESSURE CLASS (IN. W.C.)			ROUND METAL DUCT		RECTANGULAR METAL DUCT		DUCT TEST PRESSURE: IN. W.C.	REMARKS
	SUPPLY	RETURN	EXHAUST	DUCT SEAL CLASS	DUCT LEAK CLASS	DUCT SEAL CLASS	DUCT LEAK CLASS		
SUPPLY	+2			A	6	A	12	2.0	1
KITCHEN HOOD MAKE-UP AIR DUCT	+2			A	6	A	12	1.0	1
RETURN		-1		A	6	A	12	1.0	1
EXHAUST			+/- 1	A	6	A	12	1.0	1
REMARKS:									
1. TEST IN ACCORDANCE WITH SPECIFICATION SECTION 230593, TESTING, ADJUSTING, AND BALANCING FOR HVAC, AND THE PROCEDURES IN SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. 100% OF ALL DUCT SYSTEMS SHALL BE TESTED IN BUILDINGS 'A' AND 'B'. A 25% SAMPLE OF DUCT SYSTEMS SHALL BE TESTED IN BUILDING 'C'. SEND RFI TO ENGINEER PRIOR TO TESTING TO REQUEST WHICH SAMPLE UNITS SHALL HAVE DUCT SYSTEMS DUCT AIR LEAKAGE TESTED.									

GENERAL NOTES

1.

ALL OSA INTAKES MUST BE AT LEAST 18" ABOVE ROOF AND AT LEAST 10' FROM ALL EXHAUST VENTS AND PLUMBING VENTS.

2.

FLEXIBLE DUCT SHALL BE LIMITED IN LENGTH TO A MAXIMUM OF 10' LENGTH, EXCEPT WHERE SHOWN. FLEXIBLE DUCT SHALL BE UL CLASS 1 RATED.

3.

DISCREPANCIES: IF THE CONTRACTOR FINDS DISCREPANCIES, OR OMISSIONS, OR IS IN DOUBT AS TO THE EXACT MEANING OF THE PLANS OR SPECIFICATIONS, THEY SHALL, BEFORE STARTING WORK, CONTACT THE OWNER AND ENGINEER FOR CLARIFICATION.

4.

THESE DRAWINGS ARE IN GENERAL DIAGRAMMATIC, AND CANNOT SHOW ALL OFFSETS, BENDS, CLEARANCES, OR ISSUES OF GENERAL CONSTRUCTION. LOCATION AND FINISH OF ALL WORK SHALL BE VERIFIED IN THE FIELD AND SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, THE ARCHITECT, AND ALL TRADES, PRIOR TO ANY CONSTRUCTION. IN THE EVENT THERE ARE DISCREPANCIES, OMISSIONS, OR DOUBT, AS TO THE INTENT OF THESE PLANS OR SPECIFICATIONS, BEFORE, ANY WORK, ORDER OF ANY MATERIAL, OR SELECTION OF ANY METHODS OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE OWNER, ARCHITECT, AND ENGINEER IN WRITING FOR CLARIFICATION.

5.

ACOUSTICAL DUCT LINER SHALL BE USED IN SUPPLY/RETURN DUCTWORK WITHIN 5 FEET OF UNIT DISCHARGE/INTAKE AND WHERE SHOWN ON PLANS INCLUDING LARGE HORIZONTAL SUPPLY AND RETURN DUCT SECTIONS NEAR UNIT DISCHARGE/INTAKE VERTICAL DUCTS, AND FOR 5 FEET AT VAV TERMINAL UNIT OUTLETS; 1" THICK DUCT LINER WITH ENHANCED SURFACE EQUAL TO CERTAINTED TOUGHGARD R, EXCEPT 1/2" THICK LINER SHALL BE USED AFTER VAV TERMINAL UNITS. CONTRACTOR SHALL ALSO PROVIDE PINS AND ADHESIVE PER MANUFACTURER'S RECOMMENDATIONS FOR ATTACHING DUCT LINER TO DUCTWORK. ALL SEAMS AND ENDS OF DUCT LINER SHALL BE LAGGED WITH ARABOL OR OTHER LAGGING ADHESIVE APPROVED BY THE MANUFACTURER. NO CELLULOSE MATERIAL SHALL BE IN AIR STREAM IN COMMON RETURN PLENUM.

6.

CONTRACTOR SHALL COORDINATE AND INCLUDE ANY AND ALL INCIDENTAL ELECTRICAL AND PLUMBING WORK AS REQUIRED. ALL EQUIPMENT SHALL BE PROVIDED WITH OVER-CURRENT PROTECTION PER THE MANUFACTURER'S RECOMMENDATIONS.

7.

COMPLY WITH ALL APPLICABLE PROVISIONS OF THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE. INSTALLING CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL COMPLETE FORMS.

8.

DUCT AIR LEAKAGE TESTING SHALL OCCUR FOR BOTH PACKAGED ROOFTOP UNIT DUCTING SYSTEMS AND ALL OTHER DUCTING SYSTEMS. SEE DUCT AIR LEAKAGE TESTING REQUIREMENTS IN SPECIFICATION SECTION 230593, AND TABLE ON THIS SHEET.

9.

ALL MANUFACTURERS INSTALLATION INSTRUCTIONS RECEIVED ON-SITE OR THROUGH OTHER MEANS SHALL BE RETAINED IN A 3-RING BINDER FOR USE ON JOBSITE.

10.

REFER TO THE TAB SUMMARY ON AIR FLOW DIAGRAM SHEETS M4.1 FOR SUPPLEMENTAL TAB INSTRUCTIONS.

11.

BUILDING DUCTWORK SHALL HAVE LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS, AND CONNECTIONS OF SUPPLY AND RETURN DUCTS SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS EMBEDDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

12.

ALL DUCT DIMENSIONS SHOWN ARE NET FREE AREA.

13.

PROVIDE METAL DUCTWORK ELBOWS WITH A CENTERLINE RADIUS OF 1.5 TIMES THE WIDTH OR DIAMETER OF THE DUCT WHERE SPACE PERMITS. OTHERWISE, ELBOWS HAVING A MINIMUM RADIUS EQUAL TO THE WIDTH OR DIAMETER OF THE DUCT OR SQUARE ELBOWS WITH FACTORY FABRICATED TURNING VANES ARE ALLOWED.

14.

DUCT INSULATION SHALL HAVE A MINIMUM INSTALLED R-VALUE OF 6.0.

15.

PROVIDE CODE REQUIRED AND MANUFACTURER'S RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE ON ALL EQUIPMENT.

16.

THIS PROJECT WILL REQUIRE COMMISSIONING PER THE 2018 IECC REQUIREMENTS. THE GENERAL OR MECHANICAL CONTRACTOR SHALL HIRE THE COMMISSIONING AGENT AND THE MECHANICAL CONTRACTOR SHALL INCLUDE COMFORMANCE TO THE IECC COMMISSIONING REQUIREMENTS IN ALL WORK SHOWN. REFER TO 2018 IECC, SECTION 503.2.9. THE MECHANICAL CONTRACTOR SHALL ALSO PROVIDE THE BUILDING OWNER WITH AN OPERATION AND MAINTENANCE MANUAL PER THIS IECC SECTION REQUIREMENT.

17.

A COPY OF THE TAB REPORT SHALL BE PROVIDED TO THE AUTHORITY HAVING JURISDICTION.

18.

THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE OWNER AND AUTHORITY HAVING JURISDICTION WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
	SUPPLY AIR DUCT
	RETURN AIR DUCT
	EXHAUST DUCT
	FLEXIBLE DUCT
	CO2 SENSOR
	MOTORIZED DAMPER
	SMOKE DETECTOR
	THERMOSTAT / TEMP. SENSOR
	HUMIDISTAT / HUMIDITY SENSOR
	PRESSURE SENSOR
	STATIC PRESSURE SENSOR
	SWITCH
	POINT OF CONNECTION
	MANUAL VOLUME DAMPER
	UNDERCUT DOOR 1"
	FIRE/SMOKE DAMPER (VERT.)
	FIRE/SMOKE DAMPER (HORIZ.)
	TEMPERATURE SENSOR
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	DUCT TURNING VANES
	DUCT OFFSET, RISING
	DUCT OFFSET, DROPPING
	SEISMIC SWAY BRACING

NOTE: SOME SYMBOLS MAY NOT APPLY TO THIS PROJECT

AIR DEVICE CALL OUT

1

2

1 - LETTER MARK (SEE SCHEDULE)

2 - CFM

EQUIPMENT CALL OUT

1

2

1 - EQUIPMENT MARK (SEE SCHEDULE)

2 - EQUIPMENT NUMBER

MECHANICAL ABBREVIATIONS

AHU	AIR HANDLER UNIT
AP	ACCESS PANEL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CR	CEILING REGISTER
CU	CONDENSING UNIT
DG	DOOR GRILLE
DL	DRUM LOUVER
DN	DOWN
DTR	DOWN THROUGH ROOF
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EL	EXHAUST LOUVER
EXH	EXHAUST
FF	FILTER FRAME
FG	FILTER GRILLE
FLEX	FLEXIBLE
FB	BOTTOM OF DUCT FITTING IS FLAT
FT	TOP OF DUCT FITTING IS FLAT
GPM	GALLONS PER MINUTE
IL	INTAKE LOUVER
MUA	MAKE UP AIR
MVD	MANUAL VOLUME DAMPER
OSA	OUTSIDE AIR
R/A	RETURN AIR
RG	RETURN GRILLE
S/A	SUPPLY AIR
SD	SIDEWALL DIFFUSER
TG	TRANSFER GRILLE
TYP	TYPICAL
UTR	UP THROUGH ROOF
OBD	OPPOSED BLADE DAMPER

NOTE: SOME ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT

MECHANICAL SHEET INDEX

M1.1	MECHANICAL GENERAL NOTES, SYMBOLS, & SPECIFICATIONS
M1.2	IECC COMPLIANCE FORMS - MECHANICAL & PLUMBING
M1.3	IECC COMPLIANCE FORMS - MECHANICAL & PLUMBING
M2.1	MECHANICAL PLAN
M2.2	MECHANICAL ROOF PLAN
M3.1	MECHANICAL ENLARGED PLAN
M3.2	MECHANICAL SECTIONS
M4.1	AIRFLOW DIAGRAM
M5.1	MECHANICAL DETAILS
M5.2	MECHANICAL DETAILS
M6.1	MECHANICAL SCHEDULES
M6.2	MECHANICAL SCHEDULES
M7.1	MECHANICAL CONTROLS

MECHANICAL SPECS INDEX

230500	COMMON WORK RESULTS FOR HVAC
230593	TESTING, ADJUSTING, AND BALANCING FOR HVAC
230700	HVAC INSULATION
230923	DIRECT-DIGITAL CONTROL SYSTEM FOR HVAC
233000	HVAC AIR DISTRIBUTION
238103	PACKAGED ROOFTOP AIR CONDITIONING UNITS
238126	MINI-SPLIT SYSTEMS

JOB NO. 4081

STERNCO

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engineers, inc.

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OWNER INFORMATION

Pascua Yaqui Tribe

7490 S CAMINO DE OESTE
TUCSON, AZ 85757

Micro Market

5010 W CALLE TORIM
TUCSON, AZ 85757

S VAVTUE

PROJECT LOCATION

S CAMINO POTAM

S CAMINO COCOIM

CALLE TORIM

W TAROOK

W TAROOK

VICINITY

REVISION

NUMBER	DESCRIPTION	DATE
1	COUNTY COMMENTS	10/9/2024

PROJECT NO.

23C-001

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SHEET TITLE

MECHANICAL GENERAL NOTES, SYMBOLS, & SPECIFICATIONS

DATE

02.20.2024

SHEET

M1.1

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COMcheck Software Version 4.1.5.3

Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Chepa's Micro-Market
Location: Tucson, Arizona
Climate Zone: 2b
Project Type: New Construction

Construction Site: 5010 W Calle Torim
Tucson, AZ 85757
Owner/Agent: John R. Sternitzke, PE, FPE, CxA
Designer/Contractor: John R. Sternitzke, PE, FPE, CxA
Sternco Engineers, Inc.
Yuma, AZ 85364

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description

- 2 RTU-1 & 2 (6 Ton) (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 72 kBtu/h
Proposed Efficiency = 82.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 65 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.20 EER, Required Efficiency: 11.00 EER + 12.6 IEER
Fan System: None
- 2 RTU-3 & 4 (10 Ton) (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h
Proposed Efficiency = 82.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 103 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.40 EER, Required Efficiency: 11.00 EER + 12.6 IEER
Fan System: None
- 1 RTU-5 (4 Ton) (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 67 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 44 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 17.40 SEER, Required Efficiency: 14.00 SEER
Fan System: None
- 1 RTU-6 (7.5 Ton) (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 125 kBtu/h
Proposed Efficiency = 82.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 85 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.00 EER, Required Efficiency: 11.00 EER + 12.6 IEER
Fan System: None
- 1 MAU-1 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 331 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 264 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 9.80 EER, Required Efficiency: 9.80 EER + 11.4 IEER
Fan System: None
- 1 GWH:
Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 250 kBtu/h w/ Circulation Pump
Proposed Efficiency: 96.00 % Et, Required Efficiency: 80.00 % Et

Project Title: Chepa's Micro-Market Report date: 03/28/24
Data filename: S:\Projects\4000-4999\4000s\4081-Micro Market\10 - IECC Compliance\2024_03_27_4081-IECC Page 1 of 14
Mech.cck

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2 C403.12.3 [FO9]3	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature, future connection to controls	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Chepa's Micro-Market Report date: 03/28/24
Data filename: S:\Projects\4000-4999\4000s\4081-Micro Market\10 - IECC Compliance\2024_03_27_4081-IECC Page 4 of 14
Mech.cck

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

John R. Sternitzke, PE, FPE, CxA
Name - Title Signature Date 03/28/2024

Project Title: Chepa's Micro-Market Report date: 03/28/24
Data filename: S:\Projects\4000-4999\4000s\4081-Micro Market\10 - IECC Compliance\2024_03_27_4081-IECC Page 2 of 14
Mech.cck

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6]3	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6]3	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6]3	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6]3	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6]3	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6]3	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.1, C404.6.2 [PL3]3	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.3 [PL7]3	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7]3	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7]3	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7]3	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Chepa's Micro-Market Report date: 03/28/24
Data filename: S:\Projects\4000-4999\4000s\4081-Micro Market\10 - IECC Compliance\2024_03_27_4081-IECC Page 5 of 14
Mech.cck



COMcheck Software Version 4.1.5.3

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 89.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2]3	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C103.2 [PR3]3	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C406 [PR9]3	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Chepa's Micro-Market Report date: 03/28/24
Data filename: S:\Projects\4000-4999\4000s\4081-Micro Market\10 - IECC Compliance\2024_03_27_4081-IECC Page 3 of 14
Mech.cck

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.6.3 [PL7]3	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8]3	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8]3	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8]3	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8]3	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8]3	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8]3	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8]3	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Chepa's Micro-Market Report date: 03/28/24
Data filename: S:\Projects\4000-4999\4000s\4081-Micro Market\10 - IECC Compliance\2024_03_27_4081-IECC Page 6 of 14
Mech.cck

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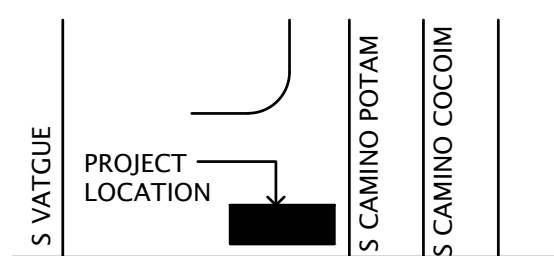


SEAL



OWNER INFORMATION
Pascua Yaqui Tribe

Micro Market



VICINITY

REVISION	NUMBER	DESCRIPTION	DATE
	1	COUNTY COMMENTS	10/9/2024

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SHEET TITLE

**IECC COMPLIANCE
FORMS -
MECHANICAL &
PLUMBING**

DATE 02.20.2024
SHEET

M1.2

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SEAL		
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<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>Pascua Yaqui Tribe</div><div>7490 S CAMINO DE OESTE TUCSON, AZ 85757</div><div>Micro Market</div><div>5010 W CALLE TORIB TUCSON, AZ 85757</div></div></div>		
OWNER INFORMATION		
PROJECT		
PROJECT LOCATION		
CALLE TORIB		
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DESCRIPTION		
COUNTY COMMENTS		
DATE		
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FORMS -		
MECHANICAL &		
PLUMBING		
DATE		
02.20.2024		
SHEET		
M1.3		

KEYNOTES

- SUPPLY AND RETURN DUCTS FROM PACKAGED ROOFTOP AIR CONDITIONING UNIT. TRANSITION DUCTS BELOW ROOF TO SIZES INDICATED.
- EXHAUST DUCT UP TO EXHAUST FAN ON ROOF.
- CEILING MOUNTED EXHAUST FAN CONTROLLED BY LIGHT SWITCH. EXHAUST DUCT UP THRU ROOF TO TERMINATE WITH EXHAUST CURB WITH CAP.
- APPROXIMATE LOCATION OF DDC TEMPERATURE AND HUMIDITY SENSOR MOUNTED AT 48" A.F.F. COORDINATE EXACT LOCATION WITH ARCHITECT. REFER TO CONTROLS SHEETS.
- APPROXIMATE LOCATION OF CO2 SENSOR MOUNTED AT 48" A.F.F. COORDINATE EXACT LOCATION WITH ARCHITECT. REFER TO CONTROLS SHEETS.
- WALL MOUNTED FAN COIL UNIT MOUNTED HIGH IN THE SPACE. ABOVE DOOR.
- APPROXIMATE LOCATION OF FAN COIL WIRED THERMOSTAT MOUNTED AT 48" A.F.F. COORDINATE EXACT LOCATION WITH ARCHITECT.
- REFRIGERANT AND CONTROL LINE SET UP TO CONDENSING UNIT ON ROOF.
- PROPOSED DDC CONTROLLER BOX LOCATION. COORDINATE WITH ELECTRICAL DRAWINGS FOR DEDICATED ELECTRICAL CIRCUIT.
- LINEAR DIFFUSER TO FIT BETWEEN METAL SLATS WITH BOTTOM OF DIFFUSER AT BOTTOM OF SLATS. COORDINATE EXACT INSTALLATION WITH ARCHITECT AND EXACT CEILING DETAILS. PROVIDE LINEAR DIFFUSER WITH INSULATED PLENUM BOX ABOVE CEILING. PLENUM BOX TO INCLUDE ROUND DUCT CONNECTION. SIZE AS SHOWN, WITH CONNECTION ABOVE CEILING ASSEMBLY.

KEYNOTES

- LINEAR DIFFUSER TO FIT BETWEEN METAL SLATS WITH BOTTOM OF DIFFUSER AT BOTTOM OF SLATS. COORDINATE EXACT INSTALLATION WITH ARCHITECT AND EXACT CEILING DETAILS. PROVIDE LINEAR DIFFUSER WITH INSULATED PLENUM BOX ABOVE CEILING. PLENUM BOX TO INCLUDE ROUND DUCT CONNECTION. SIZE AS SHOWN, WITH CONNECTION ABOVE CEILING ASSEMBLY. LINEAR DIFFUSER TO BE APPROXIMATE TOTAL LENGTH AS SHOWN, WITH 48" ACTIVE FLOW SECTIONS WHERE SHOWN.
- EXPOSED DUCT TO HAVE ALL JOINTS SEALED NEATLY AND DUCT PREPPED FOR PAINTING PER ARCHITECTURAL PLANS.
- EXPOSED DUCT ABOVE CEILING TO HAVE ALL JOINTS SEALED NEATLY AND DUCT PREPPED FOR PAINTING PER ARCHITECTURAL PLANS.
- APPROXIMATE LOCATION FOR EVAPORATOR UNITS FOR WALK-IN COOLER AND FREEZER, SHOWN FOR REFERENCE ONLY; REFER TO FOOD SERVICE PLANS FOR EQUIPMENT DETAILS.
- PROVIDE STAINLESS STEEL SHIELD TO DIVERT HEAT UP ABOVE FREEZERS TO THE HVAC RETURN GRILLS.



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SHEET TITLE

MECHANICAL
PLAN

DATE 02.20.2024
SHEET

M2.1

JOB NO. 4081

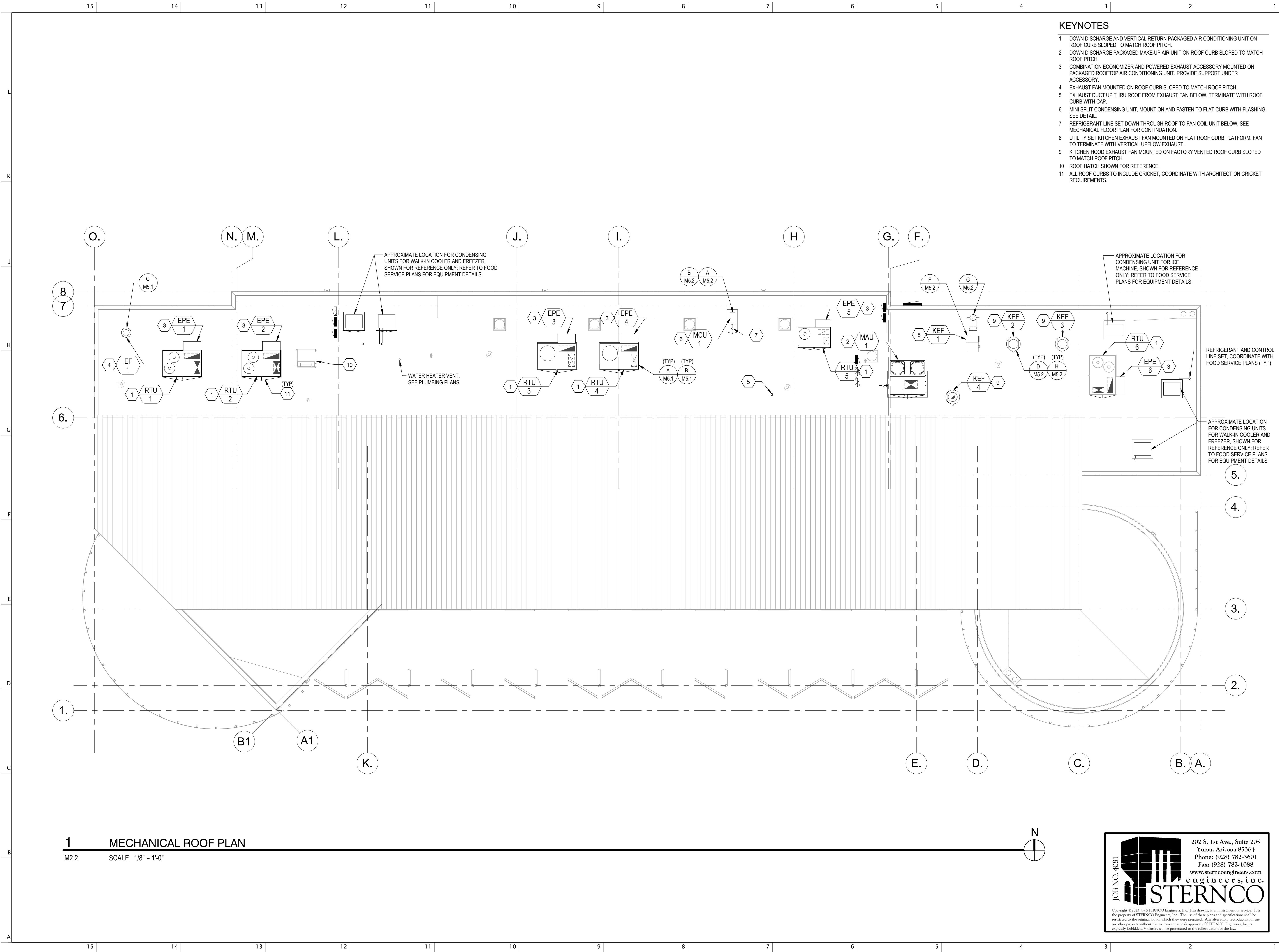
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1 MECHANICAL PLAN

M2.1 SCALE: 1/8" = 1'-0"



- KEYNOTES**
- 1 DOWN DISCHARGE AND VERTICAL RETURN PACKAGED AIR CONDITIONING UNIT ON ROOF CURB SLOPED TO MATCH ROOF PITCH.
 - 2 DOWN DISCHARGE PACKAGED MAKE-UP AIR UNIT ON ROOF CURB SLOPED TO MATCH ROOF PITCH.
 - 3 COMBINATION ECONOMIZER AND POWERED EXHAUST ACCESSORY MOUNTED ON PACKAGED ROOFTOP AIR CONDITIONING UNIT. PROVIDE SUPPORT UNDER ACCESSORY.
 - 4 EXHAUST FAN MOUNTED ON ROOF CURB SLOPED TO MATCH ROOF PITCH.
 - 5 EXHAUST DUCT UP THRU ROOF FROM EXHAUST FAN BELOW. TERMINATE WITH ROOF CURB WITH CAP.
 - 6 MINI SPLIT CONDENSING UNIT. MOUNT ON AND FASTEN TO FLAT CURB WITH FLASHING. SEE DETAIL.
 - 7 REFRIGERANT LINE SET DOWN THROUGH ROOF TO FAN COIL UNIT BELOW. SEE MECHANICAL FLOOR PLAN FOR CONTINUATION.
 - 8 UTILITY SET KITCHEN EXHAUST FAN MOUNTED ON FLAT ROOF CURB PLATFORM. FAN TO TERMINATE WITH VERTICAL UPFLOW EXHAUST.
 - 9 KITCHEN HOOD EXHAUST FAN MOUNTED ON FACTORY VENTED ROOF CURB SLOPED TO MATCH ROOF PITCH.
 - 10 ROOF HATCH SHOWN FOR REFERENCE.
 - 11 ALL ROOF CURBS TO INCLUDE CRICKET, COORDINATE WITH ARCHITECT ON CRICKET REQUIREMENTS.

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PROJECT LOCATION
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SHEET TITLE

MECHANICAL ROOF PLAN

DATE 02.20.2024
SHEET

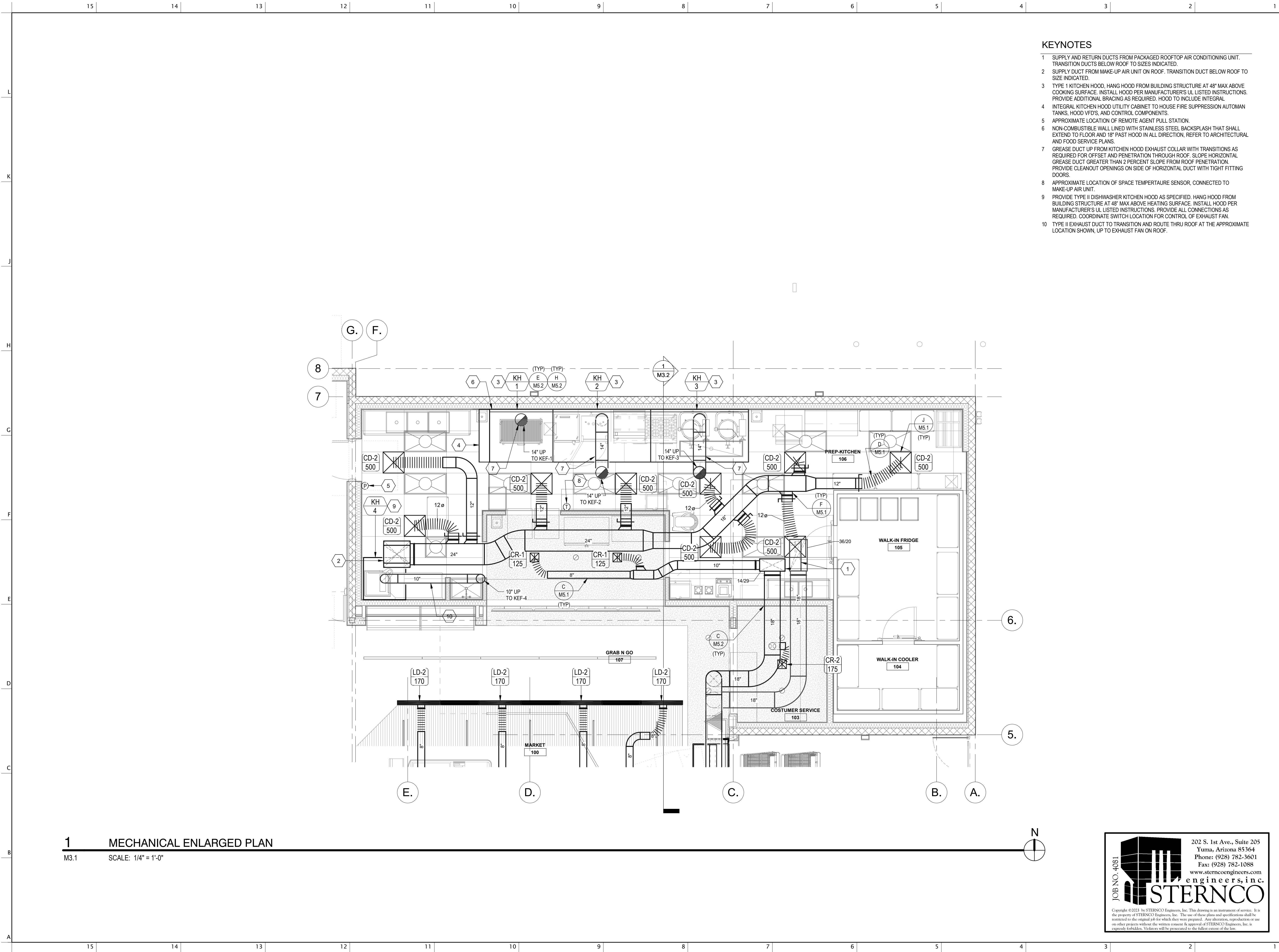
M2.2

JOB NO. 4081

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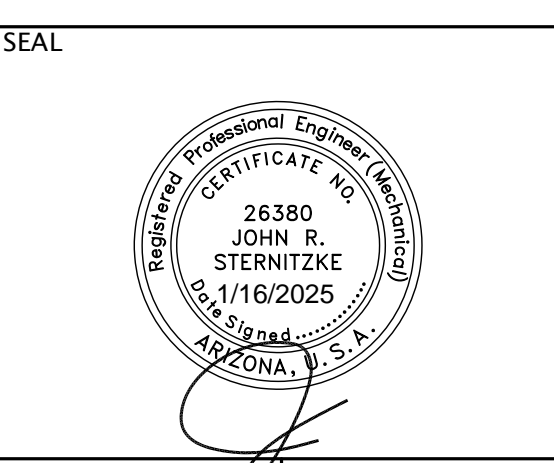
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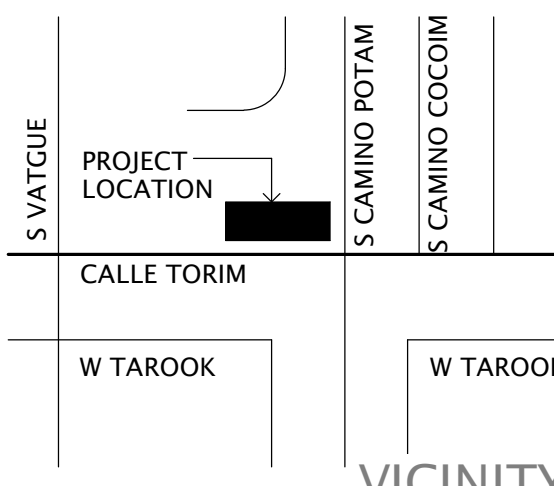


- KEYNOTES**
- SUPPLY AND RETURN DUCTS FROM PACKAGED ROOFTOP AIR CONDITIONING UNIT. TRANSITION DUCTS BELOW ROOF TO SIZES INDICATED.
 - SUPPLY DUCT FROM MAKE-UP AIR UNIT ON ROOF. TRANSITION DUCT BELOW ROOF TO SIZE INDICATED.
 - TYPE I KITCHEN HOOD, HANG HOOD FROM BUILDING STRUCTURE AT 48" MAX ABOVE COOKING SURFACE. INSTALL HOOD PER MANUFACTURER'S UL LISTED INSTRUCTIONS. PROVIDE ADDITIONAL BRACING AS REQUIRED. HOOD TO INCLUDE INTEGRAL TANKS, HOOD VFD'S, AND CONTROL COMPONENTS.
 - INTEGRAL KITCHEN HOOD UTILITY CABINET TO HOUSE FIRE SUPPRESSION AUTOMAN TANKS, HOOD VFD'S, AND CONTROL COMPONENTS.
 - APPROXIMATE LOCATION OF REMOTE AGENT PULL STATION.
 - NON-COMBUSTIBLE WALL LINED WITH STAINLESS STEEL BACKSPLASH THAT SHALL EXTEND TO FLOOR AND 18" PAST HOOD IN ALL DIRECTION, REFER TO ARCHITECTURAL AND FOOD SERVICE PLANS.
 - GREASE DUCT UP FROM KITCHEN HOOD EXHAUST COLLAR WITH TRANSITIONS AS REQUIRED FOR OFFSET AND PENETRATION THROUGH ROOF. SLOPE HORIZONTAL GREASE DUCT GREATER THAN 2 PERCENT SLOPE FROM ROOF PENETRATION. PROVIDE CLEANOUT OPENINGS ON SIDE OF HORIZONTAL DUCT WITH TIGHT FITTING DOORS.
 - APPROXIMATE LOCATION OF SPACE TEMPERATURE SENSOR, CONNECTED TO MAKE-UP AIR UNIT.
 - PROVIDE TYPE II DISHWASHER KITCHEN HOOD AS SPECIFIED. HANG HOOD FROM BUILDING STRUCTURE AT 48" MAX ABOVE HEATING SURFACE. INSTALL HOOD PER MANUFACTURER'S UL LISTED INSTRUCTIONS. PROVIDE ALL CONNECTIONS AS REQUIRED. COORDINATE SWITCH LOCATION FOR CONTROL OF EXHAUST FAN.
 - TYPE II EXHAUST DUCT TO TRANSITION AND ROUTE THRU ROOF AT THE APPROXIMATE LOCATION SHOWN, UP TO EXHAUST FAN ON ROOF.

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SHEET TITLE

**MECHANICAL
ENLARGED
PLAN**

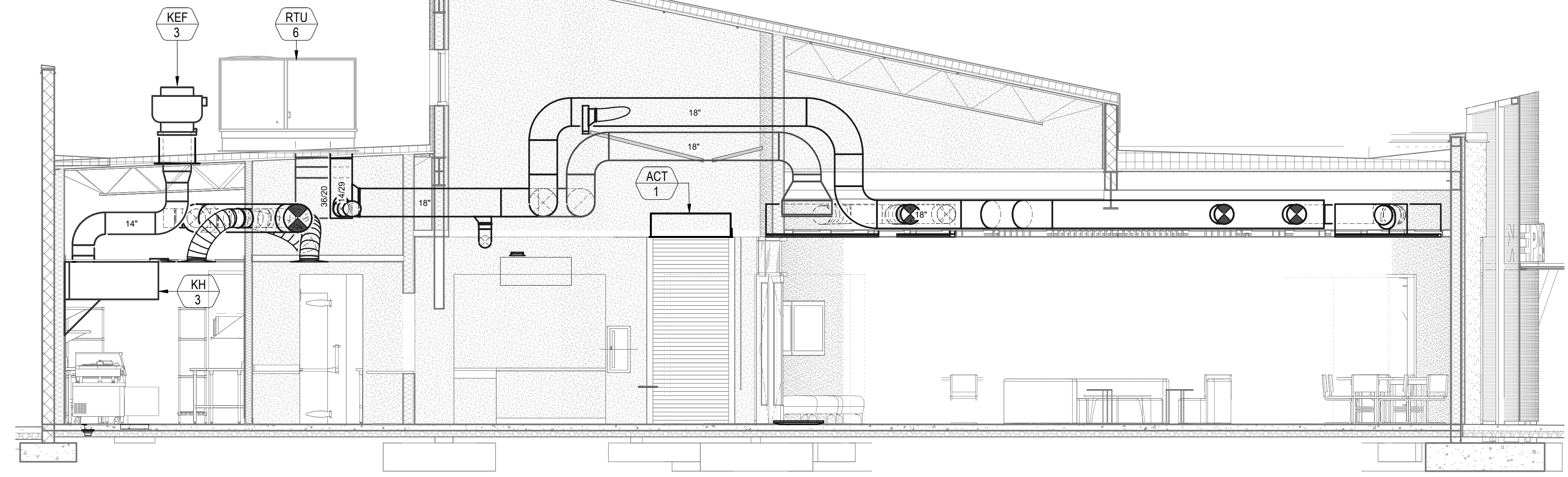
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SHEET

M3.1

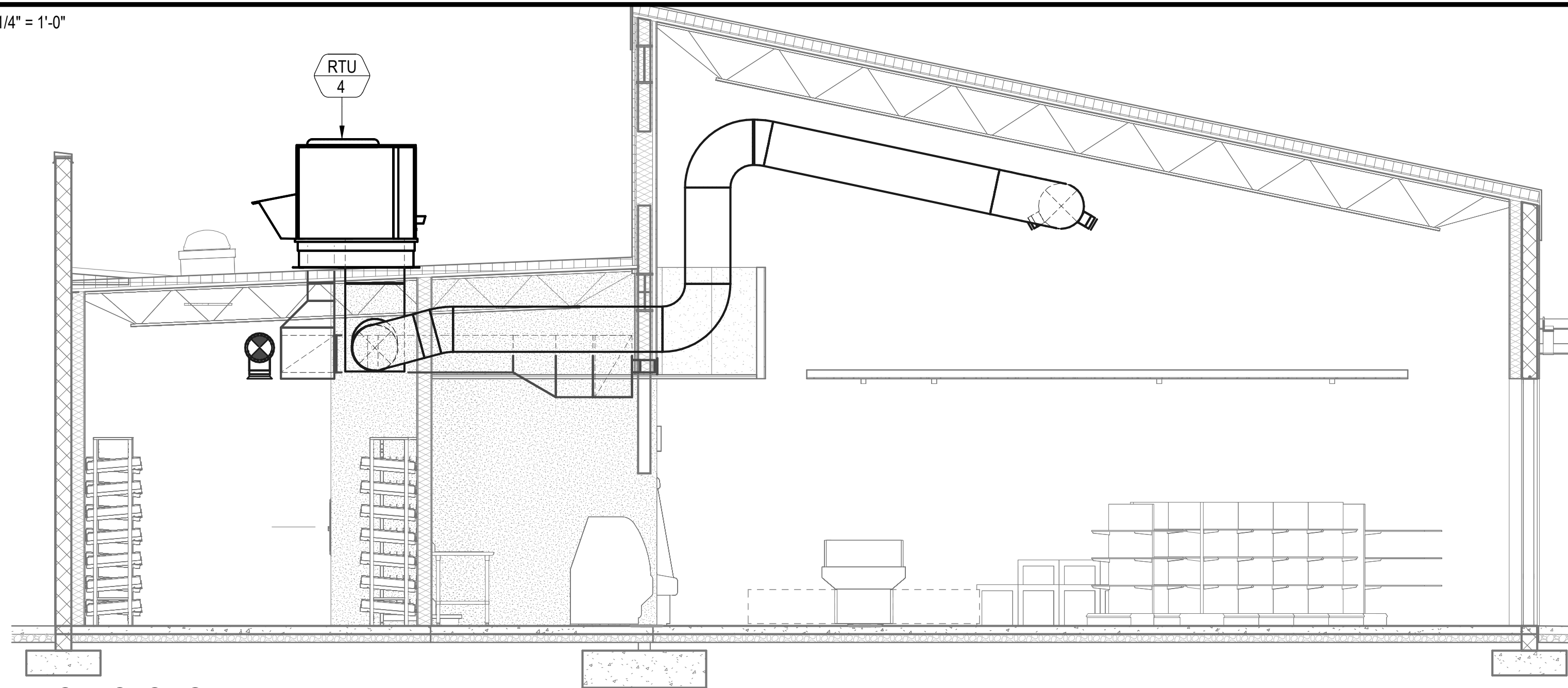
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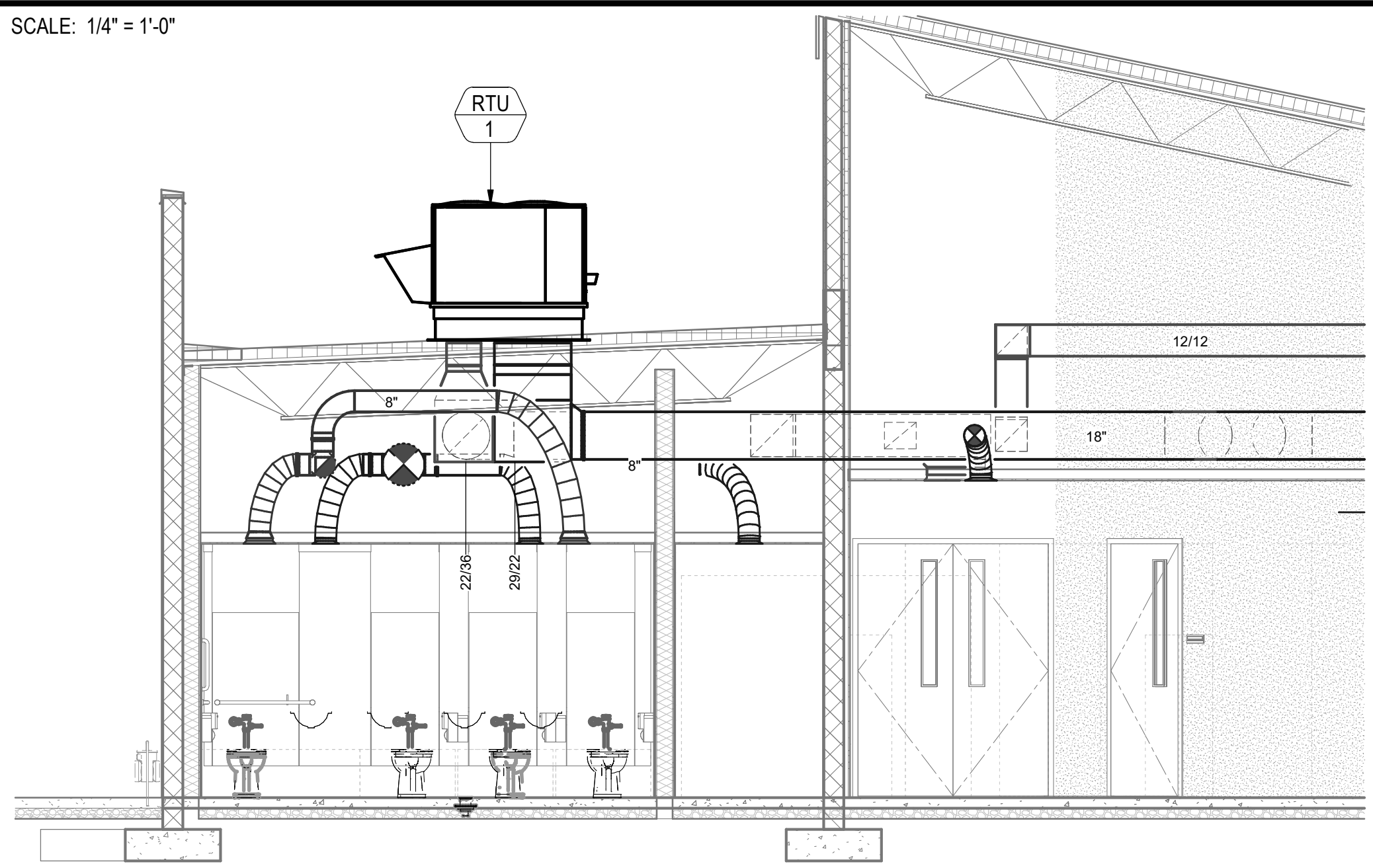
1 MECHANICAL SECTION - MAIN VESTIBULE & PREP KITCHEN

M3.2 SCALE: 1/4" = 1'-0"



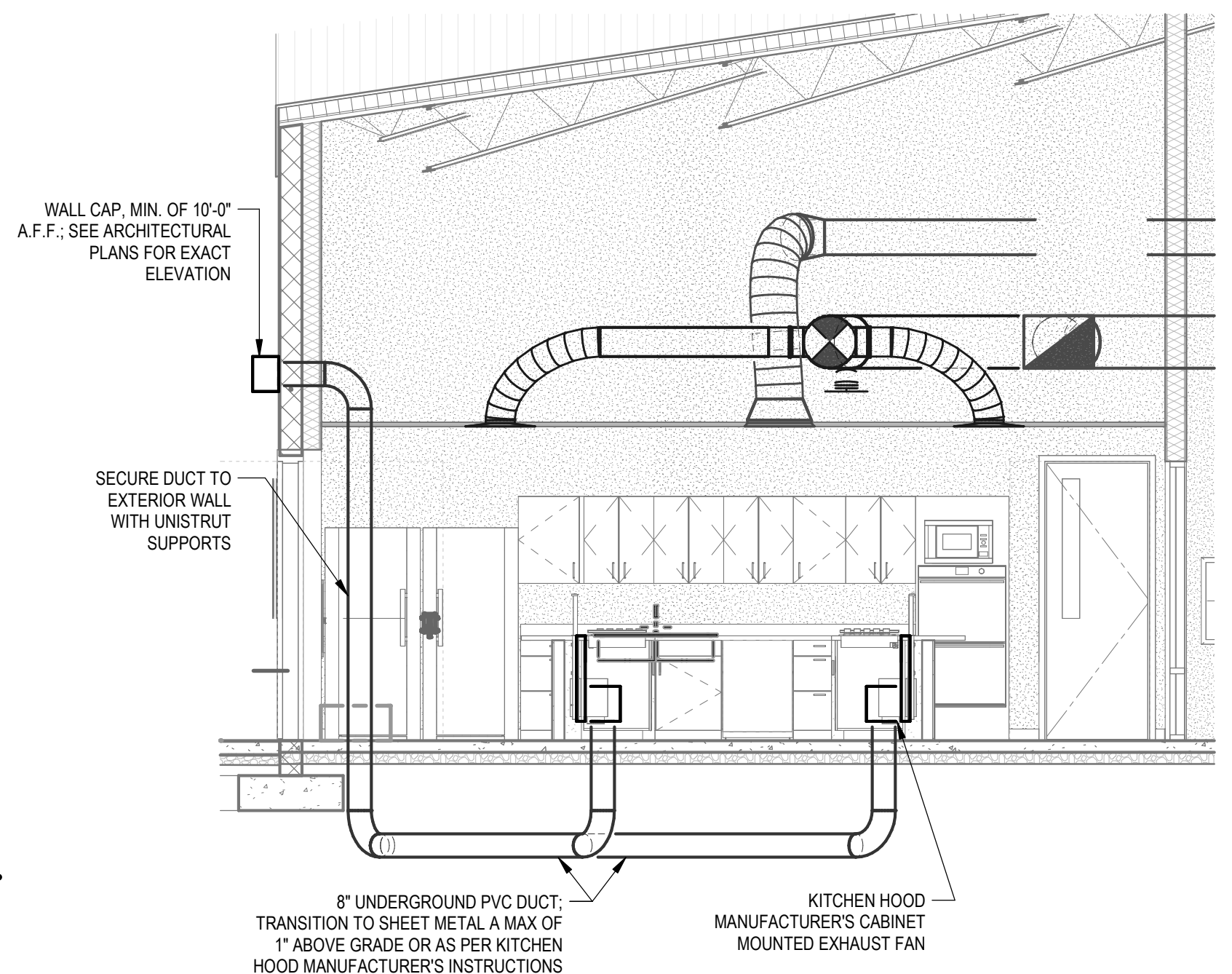
2 MECHANICAL SECTION - MARKET

M3.2 SCALE: 1/4" = 1'-0"



4 MECHANICAL SECTION - RESTROOMS


M3.2 SCALE: 1/4" = 1'-0"



3 MECHANICAL SECTION - DEMONSTRATION KITCHEN

M3.2 SCALE: 1/4" = 1'-0"

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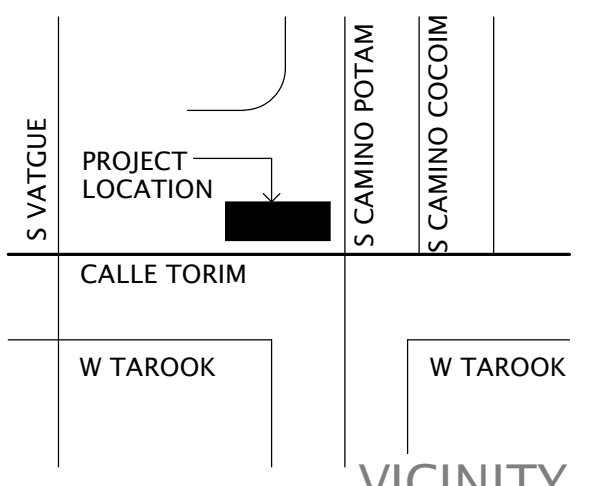
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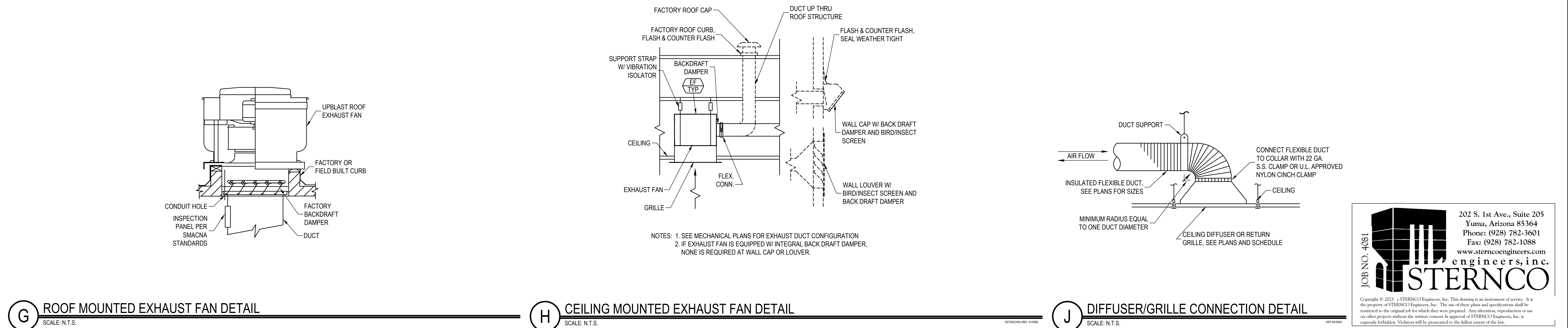
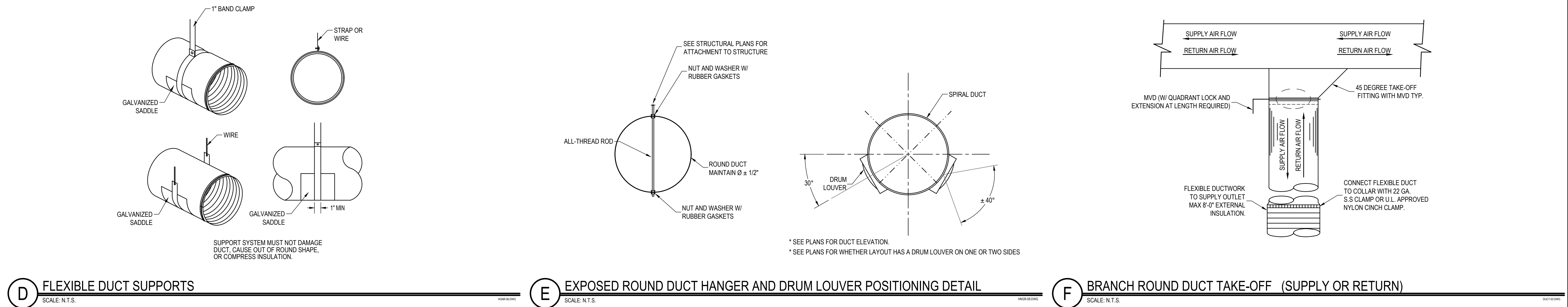
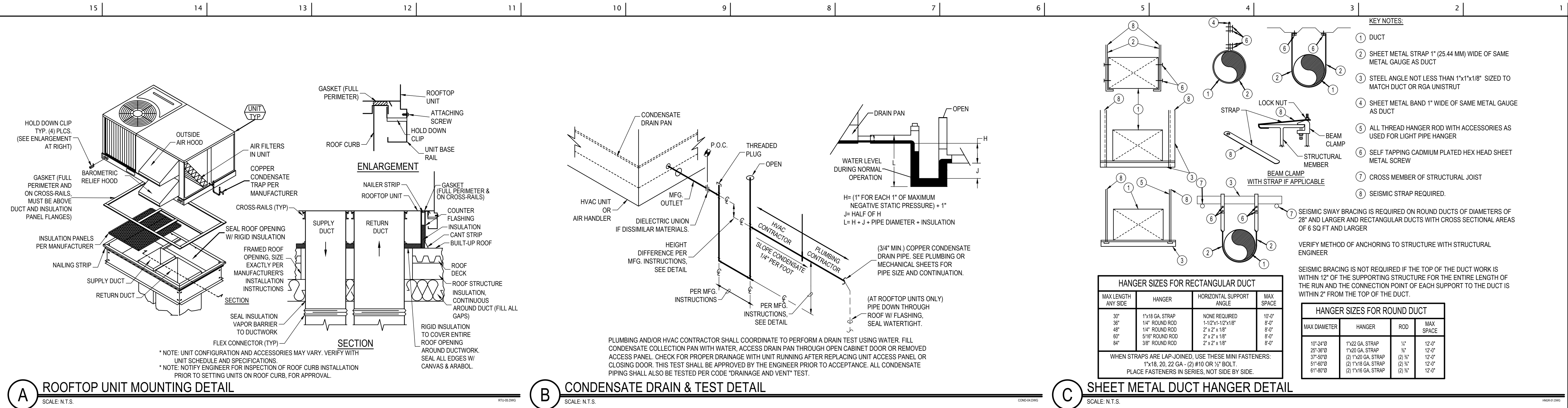
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SHEET TITLE

MECHANICAL SECTIONS

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M3.2



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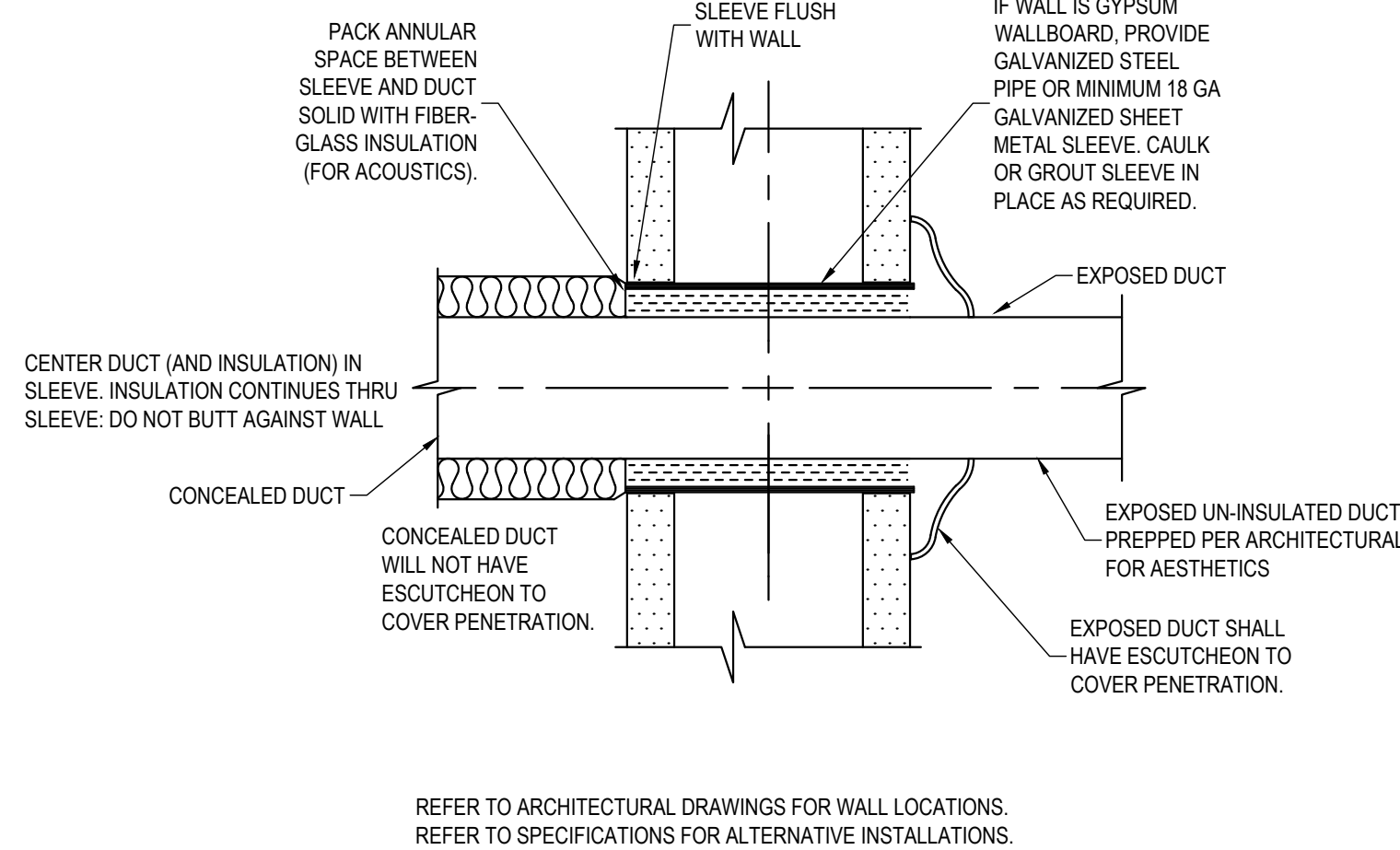
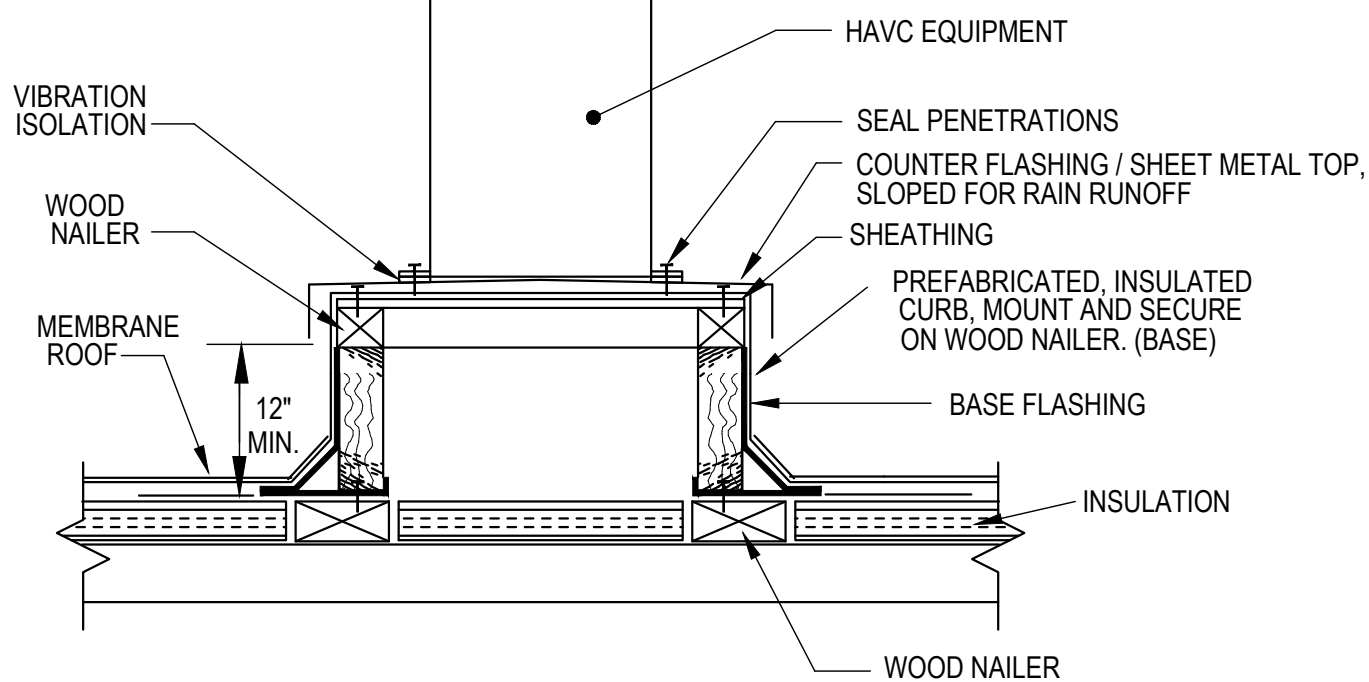
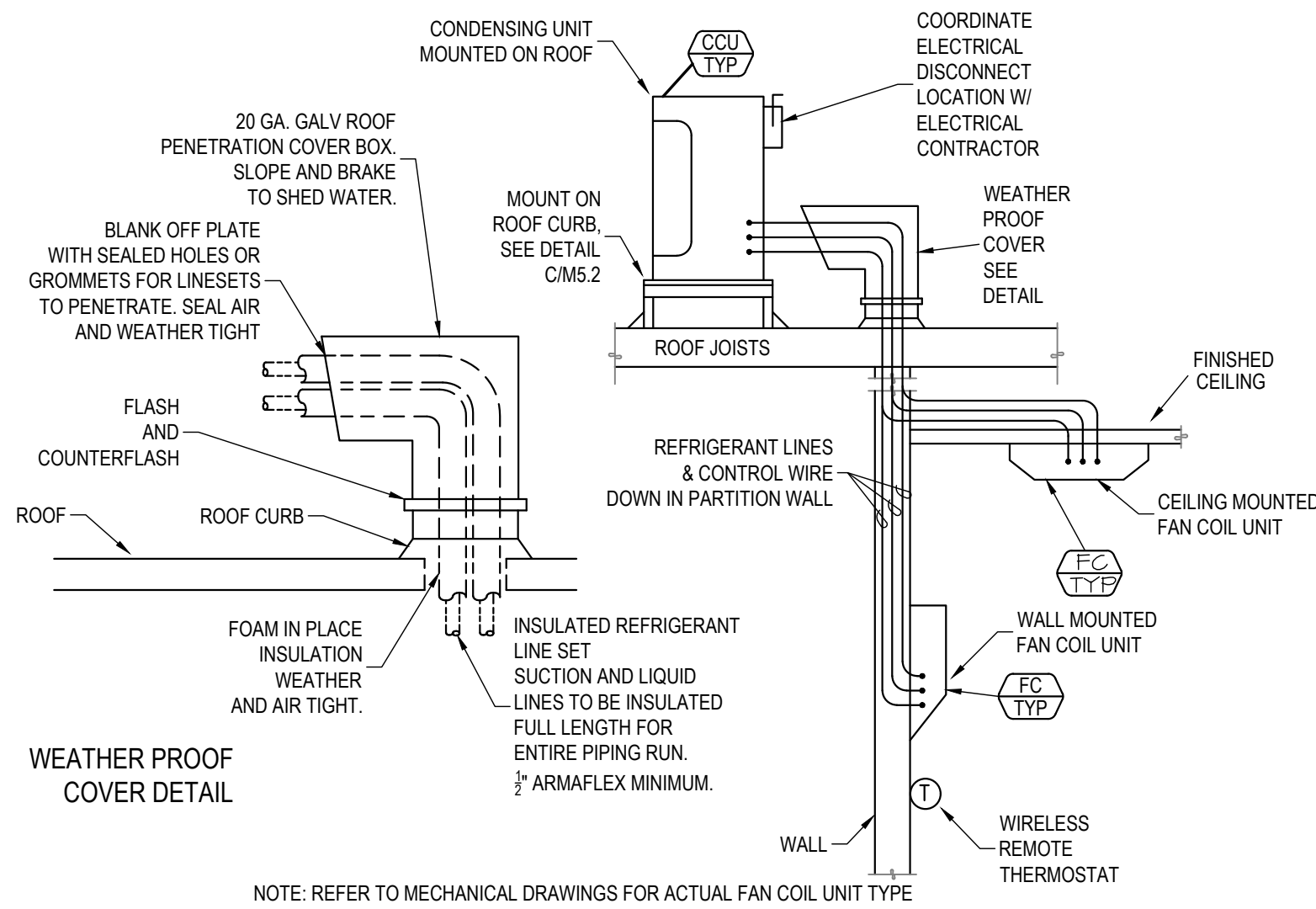
VICINITY

REVISION
NUMBER 1
DESCRIPTION COUNTY COMMENTS
DATE 10/9/2024

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MECHANICAL DETAILS

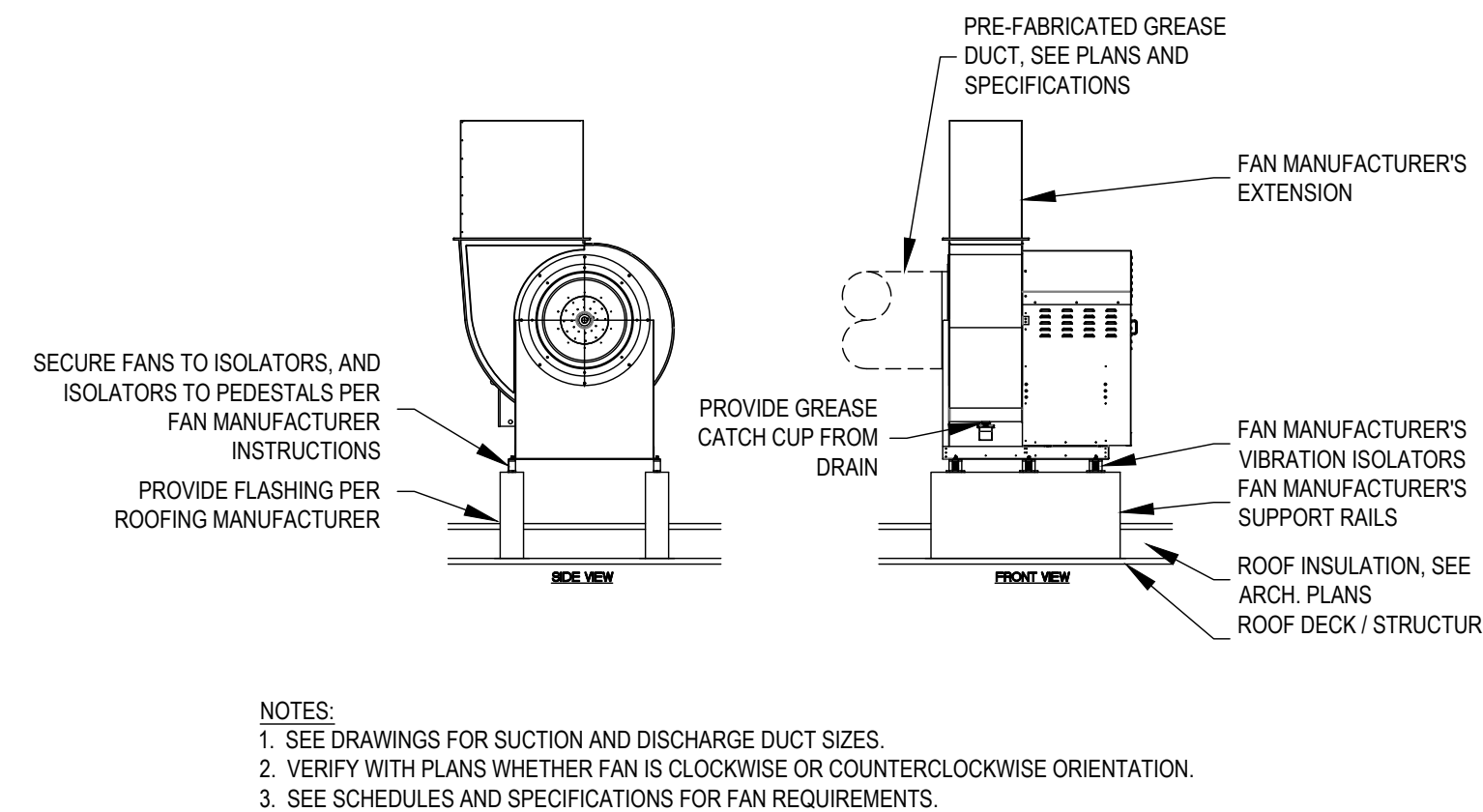
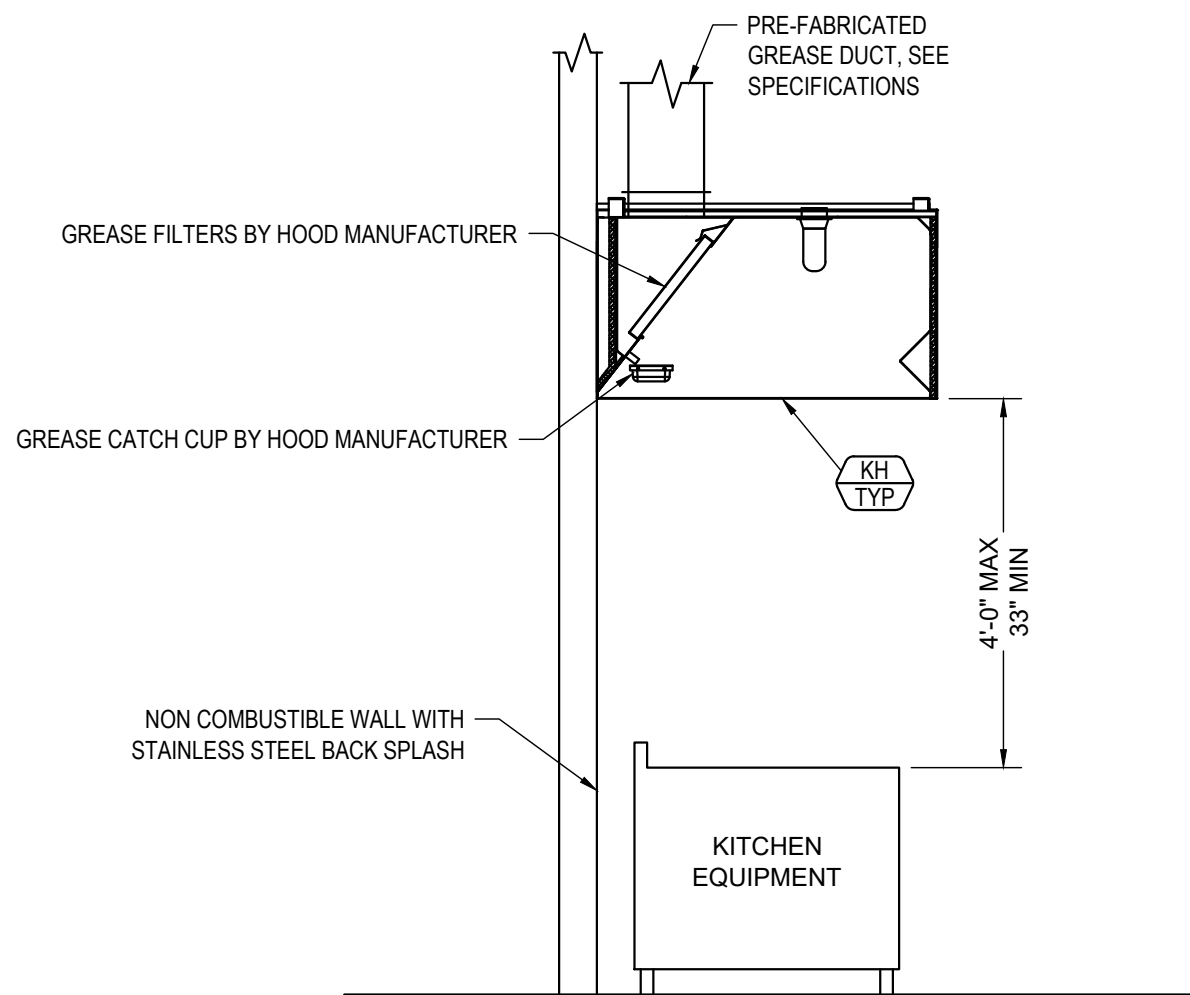
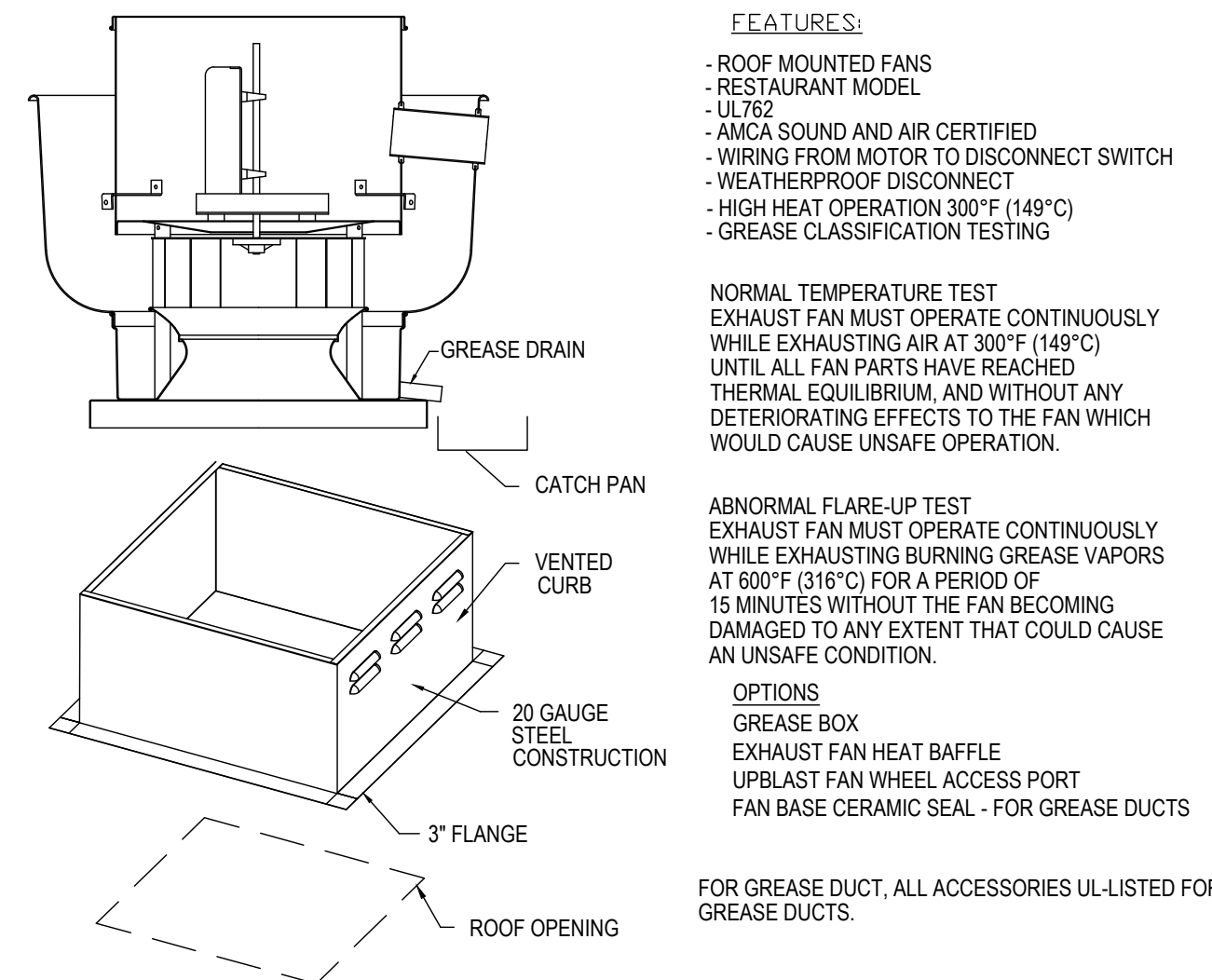
DATE 02.20.2024
SHEET M5.1



A MINI SPLIT SYSTEM DETAIL
SCALE: N.T.S.

B CONDENSING UNIT CURB DETAIL
SCALE: N.T.S.

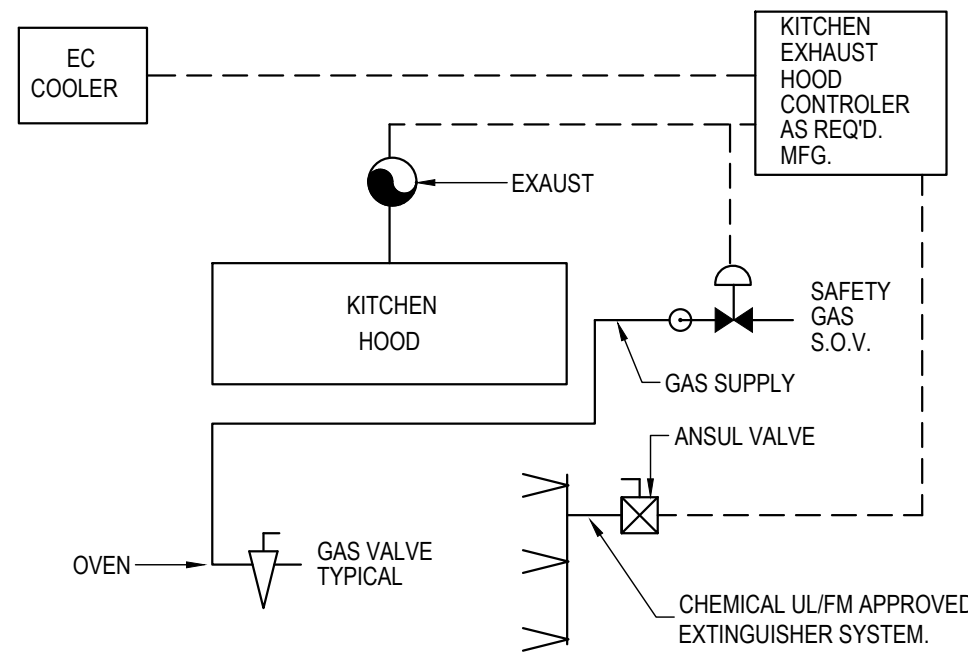
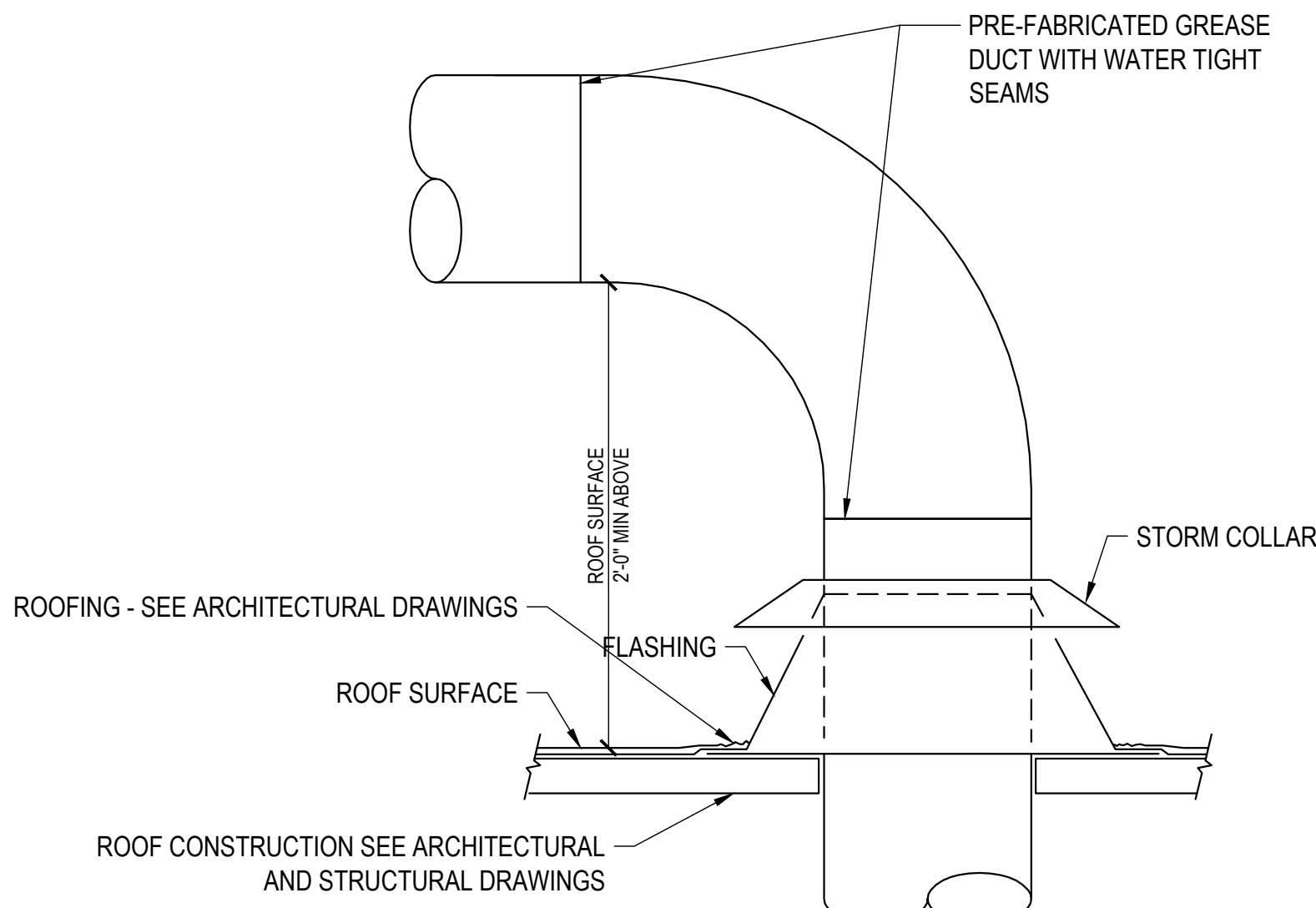
C DUCT PENETRATION OF INTERIOR NON-FIREWALL
SCALE: N.T.S.



D ROOF MOUNTED KITCHEN HOOD GREASE EXHAUSTER DETAIL
SCALE: N.T.S.

E KITCHEN HOOD (TYPE I, WALL MOUNT CANOPY)
SCALE: N.T.S.

F UTILITY SET EXHAUST FAN - ROOF MOUNTED
SCALE: N.T.S.



G DUCT THRU ROOF PENETRATION DETAIL
SCALE: N.T.S.

H SIMPLE INTERLOCK - KH CONTROL AND SHUT DOWN SCHEMATIC DETAIL
SCALE: N.T.S. (REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION)

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OWNER INFORMATION

PROJECT LOCATION

S VAVTUE
CALLE TORIM
W TAROOK
VICINITY

REVISION

NUMBER	DESCRIPTION	DATE
1	COUNTY COMMENTS	10/9/2024

PROJECT NO. 23C-001

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SHEET TITLE

DATE 02.20.2024

SHEET

M5.2

JOB NO. 4081

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RTU
MARK

PACKAGED AIR CONDITIONING WITH GAS HEATING UNIT SCHEDULE

MARK	MANUF.	MODEL	SUPPLY	OSA	MOTOR	E.S.P.	NOMINAL	EER / IEER OR SEER	COOLING CAPACITY		NATURAL GAS HEATING SECTION			VOLTAGE	MCA	MOCP	WEIGHT LESS ROOF CURB	ROOF CURB WEIGHT	HEIGHT	REMARKS	
			(CFM)	(CFM)	(HP)	(IN WC)	(TONS)	12.2 / 17.5	64.6	46.3	2	72	59	460/3/60	17	20	850	250	41-1/4		1, 2, 4 - 13
			(MBH)	(MBH)								(V/ø/Hz)	(AMPS)	(AMPS)	(LBS)	(LBS)	(IN)				
1	CARRIER	48GCDN07	2000	SEE OUTSIDE AIR SUMMARY	2.4	0.8	6	12.2 / 17.5	64.6	46.3	2	72	59	460/3/60	17	20	850	250	41-1/4	1, 2, 4 - 13	
2	CARRIER	48GCDN07	1800	SEE OUTSIDE AIR SUMMARY	2.4	0.8	6	12.2 / 17.5	64.6	46.3	2	72	59	460/3/60	17	20	850	250	41-1/4	1, 2, 4 - 13	
3	CARRIER	48GCDN12	3400	SEE OUTSIDE AIR SUMMARY	2.4	0.8	10	11.4 / 17.2	102.5	69.4	2	180	148	460/3/60	27	30	1100	250	49-3/8	1, 3 - 13	
4	CARRIER	48GCDN12	3400	SEE OUTSIDE AIR SUMMARY	2.4	0.8	10	11.4 / 17.2	102.5	69.4	2	180	148	460/3/60	27	30	1100	250	49-3/8	1, 3 - 13	
5	CARRIER	48GCDK05	1600	SEE OUTSIDE AIR SUMMARY	1.1	0.8	4	17.4	44.3	30.2	2	67	54	460/3/60	12	15	600	150	33-3/8	1, 2, 4 - 13	
6	CARRIER	48GCDN08	2825	SEE OUTSIDE AIR SUMMARY	2.4	0.8	7.5	12.0 / 17.5	84.6	61.0	2	125	102.5	460/3/60	20	25	950	250	49-3/8	1, 2, 4 - 13	
REMARKS:																					
1.	COOLING CAPACITIES AT 110°F AMBIENT, 80°F ENTERING DB, & 67°F ENTERING WB.																				
2.	VERTICAL SUPPLY AND RETURN CONFIGURATION.																				
3.	HORIZONTAL SUPPLY AND VERTICAL RETURN CONFIGURATION.																				
4.	2" PLEATED FILTERS IN UNIT; MERV 8 MINIMUM EFFICIENCY.																				
5.	FACTORY INSTALLED DIRTY FILTER SWITCH ACROSS FILTERS IN UNIT.																				
6.	REFER TO CONTROLS DRAWINGS FOR THERMOSTAT OR TEMPERATURE SENSOR REQUIREMENTS. PROVIDE UNIT WITH BACNET COMMUNICATION MODULE.																				
7.	18" TALL ROOF CURB SLOPED TO MATCH ROOF PITCH.																				
8.	AIR TIGHT FLEXIBLE DUCT CONNECTION TO ROOFTOP UNIT / ROOF CURB.																				
9.	COORDINATE ELECTRICAL DISCONNECT AND CONNECTIONS WITH ELECTRICAL DRAWINGS.																				
10.	PROVIDE WITH MANUFACTURER'S DOWNFLOW ECONOMIZER WITH MODULATING POWERED EXHAUST.																				
11.	UNIT TO INCLUDE MANUFACTURER'S HUMIDIMIZER ACCESSORY TO PROVIDE DEHUMIDIFICATION.																				
12.	PROVIDE UNIT WITH MANUFACTURER'S INTEGRAL RETURN AIR SMOKE DETECTOR INSTALLED IN UNIT.																				
13.	UNIT WEIGHT DOES NOT INCLUDE ECONOMIZER AND POWERED EXHAUST ACCESSORY WEIGHT; SEE 'EPE' SCHEDULE FOR ADDITIONAL WEIGHT.																				

EPE
MARK

COMBINATION ECONOMIZER / POWERED EXHAUST UNIT SCHEDULE

MARK	MANUF.	MODEL	CORRESPONDING UNIT	OSA MIN AND DCV	MOTOR	VOLTAGE	FLA	MCA	MOCP	WEIGHT	REMARKS
				(CFM)	(HP)	(V/ø/Hz)	(AMPS)	(AMPS)	(AMPS)	(LBS)	
1	CANFAB	1122-MPE24B-4R44	RTU-1	SEE RTU SCHEDULE	0.75	460/3/60	1.5	1.875	3.375	331	1 - 7
2	CANFAB	1122-MPE24B-4R44	RTU-2	SEE RTU SCHEDULE	0.75	460/3/60	1.5	1.875	3.375	331	1 - 7
3	CANFAB	1124-MPE40E-4R44	RTU-3	SEE RTU SCHEDULE	2	460/3/60	3.1	3.875	6.975	331	1 - 7
4	CANFAB	1124-MPE40E-4R44	RTU-4	SEE RTU SCHEDULE	2	460/3/60	3.1	3.875	6.975	331	1 - 7
5	CANFAB	1118-MPE16A-4R44	RTU-5	SEE RTU SCHEDULE	0.5	460/3/60	1.2	1.5	2.7	222	1 - 7
6	CANFAB	1124-MPE30D-4R44	RTU-6	SEE RTU SCHEDULE	1.5	460/3/60	2.4	3	5.4	331	1 - 7
REMARKS:											
1.	PACKAGED COMBINATION ECONOMIZER AND POWERED EXHAUST ACCESSORY FOR VERTICAL RETURN FLOW UNIT.										
2.	POWERED EXHAUST ACCESSORY WITH VFD TO MAINTAIN BUILDING PRESSURE SLIGHTLY POSITIVE WITH RESPECT TO OUTDOORS.										
3.	UNIT SHALL BE MOUNTED TO AND COMPATIBLE WITH CORRESPONDING ROOFTOP HEAT PUMP UNIT, VERIFY EXACT 'EPE' MODEL NUMBER PER UNIT. UNIT SHALL BE PROVIDED BY HVAC UNIT MANUFACTURER.										
4.	ECONOMIZER TO BE FULLY MODULATING AND ULTRA LOW LEAKAGE, COMPLYING WITH IECC 2018 LEAKAGE REQUIREMENTS. INTAKE SET FOR MIN. CFM AS SPECIFIED. PROVIDE FAULT DETECTION AND DIAGNOSTICS TO COMPLY WITH 2018 IECC.										
5.	PROVIDE SIEMENS OR BELIMO ZIP CONTROLLER, WITH DIFFERENTIAL ENTHALPY CONTROL.										
6.	COORDINATE ELECTRICAL DISCONNECT AND CONNECTIONS WITH ELECTRICAL DRAWINGS. UNIT TO HAVE SEPARATE POWER SOURCE THAN ROOFTOP HVAC UNIT.										
7.	PROVIDE PRESSURE TUBING AND FACTORY PRESSURE PICKUP PORTS FOR CEILING OR WALL MOUNTED INSTALLATION.										

ACT
MARK

AIR CURTAIN SCHEDULE

MARK	MANUF.	MODEL	NOZZLE WIDTH	OPENING WIDTH x HEIGHT	CFM	HP	VOLTAGE	FLA	MOCP	OPERATING WEIGHT	HEIGHT	REMARKS:
			(IN)	(IN x IN)			(V/ø/Hz)	(AMPS)	(AMPS)	(LBS)	(IN)	
1	BERNER	CHD10-1048A	48	48 x 120	1,768	1/2	115/1/60	6.5	15	53	14.09	1
REMARKS:												
1.	EXTERIOR RATED WALL MOUNTED AIR CURTAIN FOR ENVIRONMENTAL SEPARATION UP TO 10' HIGH. PROVIDE WITH THREE-SPEED MOTOR.											
2.	UNIT TO INCLUDE ALUMINUM EXTERIOR COLOR, CONFIRM WHITE OR BLACK STANDARD COLOR, OR OPTION COLOR OR STAINLESS STEEL FINISH WITH ARCHITECT.											
3.	INCLUDE MANUFACTURER'S BASIC CONTROL PACKAGE INCLUDING DOOR SWITCH AND LINE VOLTAGE CONTROL.											

MARK
CFM

DIFFUSERS, REGISTERS, GRILLES, LOUVERS, & ACCESSORIES

MARK	MANUF.	MODEL	SERVICE	MATERIAL	SIZE	MOUNTING	DAMPER	REMARKS:
CD-1	TITUS	TDC-AA	CEILING DIFFUSER	ALUMINUM	24" SQUARE MODULE	T-BAR LAY-IN	MVD	1, 2
CD-2	TITUS	PCS-AA	CEILING DIFFUSER	ALUMINUM	24" SQUARE MODULE	T-BAR LAY-IN	MVD	1, 2
CR-1	TITUS	TDC-AA	CEILING REGISTER	ALUMINUM	6" x 6"	SURFACE MOUNTED	OBD	1, 2
CR-2	TITUS	TDC-AA	CEILING REGISTER	ALUMINUM	9" x 9"	SURFACE MOUNTED	OBD	1, 2
CR-3	TITUS	250-AA	CEILING REGISTER	ALUMINUM	12" x 12"	SURFACE MOUNTED	OBD	1, 2
DL	TITUS	DL	DRUM LOUVER	ALUMINUM	18" x 6"	SPIRAL DUCT MOUNTED	OBD	1, 9
LD-1	TITUS	ML-40	LINEAR DIFFUSER	ALUMINUM	6' LONG - (2) 1.5" SLOTS	EXPOSED - NARROW FRAME	OBD	1, 6
LD-2	TITUS	ML-37	LINEAR DIFFUSER	ALUMINUM	4' LONG - (3) 0.5" SLOTS	EXPOSED - NARROW FRAME	OBD	1, 6, 7
LD-3	TITUS	ML-37	LINEAR DIFFUSER	ALUMINUM	4' LONG - (2) 0.5" SLOTS	EXPOSED - NARROW FRAME	OBD	1, 6
RG-1	TITUS	50F	RETURN GRILLE	ALUMINUM	24" SQUARE MODULE	T-BAR LAY-IN	MVD	1, 2, 3, 4
RG-2	TITUS	50F	RETURN GRILLE	ALUMINUM	SEE PLANS	SURFACE MOUNTED	OBD / MVD	1, 3, 4
RG-3	TITUS	CT-580	LINEAR BAR RETURN GRILLE	ALUMINUM	6" x 72"	SURFACE MOUNTED	MVD	1, 2, 5
SD	TITUS	350FL	SIDEWALL DIFFUSER	ALUMINUM	8" x 8"	SURFACE MOUNTED	OBD	1, 2, 8
TG-1	TITUS	50F	RETURN GRILLE	ALUMINUM	24" SQUARE MODULE	T-BAR LAY-IN	NONE	1, 3, 4
TG-2	TITUS	50F	RETURN GRILLE	ALUMINUM	12" x 12"	SURFACE MOUNTED	NONE	1, 3
REMARKS:								
1.	PROVIDE ALL TRANSITIONS AND CONNECTIONS NECESSARY FOR PROPER INSTALLATION.							
2.	PROVIDE MVD AT BRANCH TAKE-OFF UNLESS OTHERWISE REQUIRED IN FIELD FOR ACCESSIBILITY TO ADJUST AIR FLOW.							
3.	HEAVY EXTRUDED ALUMINUM BORDER AND 1/2" x 1/2" x 1/2" ALUMINUM CORE (GRILLE).							
4.	GRILLE FACE TO BE FULL SIZE OF CEILING TILE.							
5.	LINEAR BAR GRILLE WITH 1/8" BLADES AT 1/2" SPACING.							
6.	LINEAR DIFFUSER WITH SLOT WIDTHS AND QUANTITIES AS INDICATED. PROVIDE ROUND DUCT DAMPER WITH REMOTE ADJUSTMENT LOCATED INTERNAL TO LINEAR DIFFUSER FRAME, AND ACCESSIBLE FROM BOTTOM OF LINEAR DIFFUSER. NARROW FRAME BORDER IS ~0.75" WIDE.							
7.	LINEAR DIFFUSER TO HAVE A CONTINUOUS DIFFUSER SECTION WITH APPROXIMATE LENGTH AS SHOWN ON PLANS (28'-0" FOR NORTH SECTION, 18'-8" FOR SOUTH SECTION ESTIMATED), WITH LINEAR DIFFUSER ACTIVE SECTIONS OF 48' LONG, QUANTITIES AS SHOWN ON PLANS. PROVIDE BLANK-OFF PLATES AND OTHER REQUIRED ACCESSORIES FOR NON-ACTIVE SECTIONS.							
8.	SIDEWALL DIFFUSER WITH DOUBLE DEFLECTION GRILLES.							
9.	DRUM LOUVER WITH +/- 30 DEGREE ROTATION, WITH INDIVIDUALLY ADJUSTABLE BLADES. PROVIDE WITH SPIRAL DUCT FRAME TO MATCH SIZE OF SPIRAL DUCT PER PLANS. PROVIDE WITH MANUFACTURER'S AIR SCOOP WITH FRONT OPERATOR.							

EF
MARK

EXHAUST FAN SCHEDULE

MARK	MANUF.	MODEL	CFM	WATTS	HP	E.S.P.	VOLTAGE	OPERATING WEIGHT	HEIGHT	REMARKS:
						(IN WG)	(V/ø/Hz)	(LBS)	(IN)	
1	GREENHECK	G-095-VG	625	N/A	1/6	0.5	115/1/60	26	16-3/8	1
2	GREENHECK	SP-B80	75	19	N/A	0.125	115/1/60	10	7	2, 3
REMARKS:										
1.	ROOF MOUNTED DOWNBLAST EXHAUST FAN. PROVIDE WITH FACTORY ROOF CURB, ECM ADJUSTABLE SPEED MOTOR, BACKDRAFT DAMPER IN CURB FRAME.									
2.	CEILING MOUNTED EXHAUST FAN WITH DELUXE ALUMINUM GRILLE, VIBRATION ISOLATION HANGERS, BACKDRAFT DAMPER AT DISCHARGE, FLEX DUCT CONNECTOR AT OUTLET, SIZED TO MATCH DUCT.									
3.	FACTORY ROOF CAP WITH CURB AND BIRDSCREEN, SIZED TO MATCH DUCT.									

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KITCHEN HOOD SCHEDULE (SCHEDULED FOR REFERENCE)

MARK	MANUF.	MODEL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	MAX COOKING TEMP ("F)	HOOD TYPE	APPLIANCE DUTY	EXHAUST (CFM)	EXHAUST DUCT COLLAR SIZE (IN)	QTY.	UTILITY CABINET DIMENSIONS (WXLXH)	LED LIGHTS (QUANTITY)	VERTICAL END PANEL SIDES	WEIGHT (LBS)	REMARKS:
1	CAPTIVEAIRE	6024 ND-2	6'-0"	60	24	700	I	EXTRA-H EAVY	1800	14'0	1	12 X 60 X 24	2	LEFT & RIGHT	777	1 - 12
2	CAPTIVEAIRE	6024 ND-2	9'-3"	60	24	600	I	HEAVY	1850	14'0	1	N/A	3	LEFT	557	1 - 12
3	CAPTIVEAIRE	6024 ND-2	9'-3"	60	24	600	I	HEAVY	1850	14'0	1	N/A	3	RIGHT	557	1 - 12
4	CAPTIVEAIRE	4824 VHB-G	4'-0"	48	24	700	II	N/A	600	10'0	1	N/A	0	0	175	13
5, 6	BOSCH	HDD86051UC	3'-1"	N/A	N/A	N/A	DOWNDRAFT	RESIDENTIAL	450	8'0	1	N/A	N/A	N/A	N/A	14
REMARKS: 1. TYPE I, WALL CANOPY HOOD WITH AND STAINLESS STEEL BAFFLE FILTERS. INCLUDE MANUFACTURERS HOOD MOUNTED UTILITY CABINET (WHERE SCHEDULED) FOR FIRE AGENT TANK AND ELECTRICAL CONTROL PANEL MOUNTING. THE FIRE SUPPRESSION SYSTEM SHALL BE HOUSED IN THE UTILITY CABINET AND SERVE HOODS KH-1 THRU KH-3. 2. TYPE 430 STAINLESS STEEL VERTICAL END PANELS ON SIDES SHOWN IN SCHEDULE, BACKSPASH (EXTENDING 18" PAST HOOD IN ALL DIRECTIONS), STRUCTURAL FRONT PANEL, AND FIELD WRAPPER TO CEILING. 3. HOODS KH-1, KH-2, AND KH-3, TO BE CONNECTED TOGETHER, WITH COMMON MAKE-UP AIR UNIT. CONTROLS SHALL BE SHARED BETWEEN HOODS. 4. TYPE 430 STAINLESS STEEL CONSTRUCTION WELDED WITH LIQUID TIGHT SEAMS. 5. 3" INSULATED AIR SPACE PROVIDED TO MEET NFPA 96 CLEARANCE REQUIREMENTS AND FILLER PANELS AS REQUIRED FOR EXTENSION OF HOOD TO CEILING. INSULATION FOR TOP AND BACK OF HOOD FOR KH-1. 6. PRE-WIRED UL LISTED L55 SERIES E26 CANOPY LIGHT FIXTURES, GREASE DRAIN SYSTEM, AND CATCH CUP. 7. HVAC CONTRACTOR TO PROVIDE DUCT CONNECTION TO EXHAUST AND SUPPLY COLLARS (WHERE NOTED) WITH VOLUME DAMPERS IN SUPPLY. 8. DUCT THERMOSTAT IN KITCHEN HOOD EXHAUST COLLAR OR DUCT FOR INTERLOCK WITH EXHAUSTER AND MAKE-UP AIR UNIT. 9. HOOD TO INCLUDE MANUFACTURER'S COMPLETE ELECTRICAL CONTROL PANEL FOR CONTROL OF ALL EQUIPMENT (INCLUDING KITCHEN HOOD EXHAUSTER AND MAKE-UP AIR UNIT, AND VARIABLE SPEED CONTROL WITH SMART CONTROLS DCV). AS LISTED ABOVE, CONTROLS TO BE SHARED FOR KH-1, KH-2, AND KH-3. 10. PRE-PIPED CORE PROTECTION FIRE SUPPRESSION SYSTEM AND ACCESSORIES, TO MATCH KITCHEN EQUIPMENT LAYOUT BENEATH HOOD PER FOOD SERVICE PLANS. CORE PROTECTION SYSTEM ALSO TO INCLUDE AUTOMATIC WASH. COORDINATE WITH PLUMBING AND FIRE SUPPRESSION CONTRACTORS FOR DOMESTIC HOT AND COLD WATER REQUIREMENTS, AND FIRE SUPPRESSION SYSTEM REQUIREMENTS. 11. HVAC CONTRACTOR SHALL SUSPEND FROM STRUCTURE WITH ALL-THREAD RODS PER MANUFACTURER'S INSTRUCTIONS AND STRUCTURAL DRAWINGS. ADD ADDITIONAL BRACING WHERE REQUIRED. 12. PROVIDE EACH HOOD WITH AUDIBLE OR VISUAL NOTIFICATION OF HOOD FIRE SYSTEM ACTIVATION. 13. TYPE II DISHWASHER HOOD WITH FIELD WRAPPER TO CEILING. INCLUDE SWITCH FOR ON/OFF CONTROL OF KITCHEN EXHAUST FAN. 14. DOWNDRAFT HOOD TO SERVE 36" WIDE RESIDENTIAL GAS RANGE. PROVIDE WITH MANUFACTURER'S CABINET MOUNTED INLINE EXHAUST FAN (MODEL DHG602UDC), NECESSARY SEAL KIT AND TRIM KIT, AND ALL OTHER NECESSARY ACCESSORIES.																

KITCHEN HOOD EXHAUSTER SCHEDULE (SCHEDULED FOR REFERENCE)

MARK	MANUF.	MODEL	CFM	E.S.P. (IN WG)	HP	RPM	VOLTAGE (VoltsHz)	WEIGHT (LBS)	REMARKS:
1	CAPTIVEAIRE	USB118DD-RM	1800	1.7	2.0	1206	460/3/60	419	1, 4 - 8
2	CAPTIVEAIRE	DU180HFA	1850	1.25	2.0	1071	460/3/60	164	2, 4 - 8
3	CAPTIVEAIRE	DU180HFA	1850	1.25	2.0	1071	460/3/60	164	2, 4 - 8
4	CAPTIVEAIRE	DU33HFA	600	0.5	0.33	1370	115/1/60	68	3 - 7
REMARKS: 1. UTILITY SET EXHAUST FAN WITH VERTICAL VERTICAL UPPER LEFT - CW INLET. INCLUDE HIGH TEMPERATURE HEAT AND SMOKE OPTION. FAN TO BE MOUNTED ON SPRING VIBRATION ISOLATORS, MOUNTED ON FLAT CURB PLATFORM. INCLUDE CLEANOUT PORT AND GREASE CUP AND MEET ALL NFPA 96 PROVISIONS. 2. UPBLAST DISCHARGE UL 705 AND UL 762 RATED KITCHEN HOOD EXHAUSTER, MOUNTED ON FACTORY VENTED ROOF CURB SLOPED TO MATCH ROOF PITCH, 20" MINIMUM HEIGHT. INCLUDE HINGED CURB CAP WITH LOCKING PIN AND CURB SEAL FOR CLEANING GREASE DUCT UP FROM HOOD. INCLUDE CLEANOUT PORT AND GREASE CUP AND MEET ALL NFPA 96 PROVISIONS. 3. UPBLAST DISCHARGE UL 705 RATED KITCHEN HOOD EXHAUSTER, MOUNTED ON FACTORY VENTED ROOF CURB SLOPED TO MATCH ROOF PITCH, 20" MINIMUM HEIGHT. INCLUDE HINGED CURB CAP WITH LOCKING PIN AND CURB SEAL. INCLUDE ECM WIRING PACKAGE, BIRD SCREEN, AND BACKDRAFT DAMPER IN CURB FRAME. 4. INTERLOCK WITH CORRESPONDING KITCHEN HOOD AND MAKE-UP AIR UNIT. 5. INCLUDE TRANSITION AND CONNECTION TO DUCT UP FROM HOOD, SIZE AS SPECIFIED. 6. COORDINATE CONNECTIONS WITH ALL OTHER TRADES. 7. BELT GUARD AND VENTED MOTOR COVER FOR WEATHER PROTECTION. 8. INCLUDE MANUFACTURERS VARIABLE FREQUENCY DRIVE TO CONTROL UNIT SPEED BASED ON KITCHEN HOOD MANUFACTURER'S ELECTRICAL CONTROL PANEL.									

PACKAGED MAKE-UP AIR UNIT WITH GAS HEATING SCHEDULE

MARK	MANUF.	MODEL	SUPPLY	OSA	MOTOR	E.S.P.	NOMINAL	IEER	COOLING CAPACITY				NATURAL GAS HEATING SECTION		VOLTAGE	MCA	MOCP	WEIGHT LESS ROOF CURB	ROOF CURB WEIGH	HEIGHT	REMARKS	
			(CFM)	(CFM)	(HP)	(IN WC)	(TONS)		TOTAL	SENSIBLE	EAT - DB / WB	LAT - DB / WB / DP										
									(MBH)	(MBH)	("F)	("F)	STAGES	INPUT	OUTPUT	(VoltsHz)	(AMPS)	(AMPS)	(LBS)	(LBS)	(IN)	
1	PARAGON (CAPTIVEAIRE)	CASRTU3-1400-24-20T	4500	100% OSA	5	0.5	20	18.2	264.0	224.4	115.0 / 67.0	61.3 / 57.2 / 54.8	-	331.0	268.1	460/3/60	54.9	60	2760	250	41-3/8	1 - 10
REMARKS: 1. 100% OUTDOOR AIR MAKE-UP AIR UNIT PROVIDED BY KITCHEN HOOD MANUFACTURER. UNIT TO INCLUDE 2" DOUBLE WALL CONSTRUCTION WITH 4-13 INSULATION MINIMUM; DOWN DISCHARGE CONFIGURATION. 2. UNIT TO INCLUDE INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR; DIRECT DRIVE PLENUM BLOWER; EC MOTOR CONDENSING FANS; ELECTRONIC EXPANSION VALVE; SUCTION LINE ACCUMULATOR. 3. PROVIDE WITH AVERAGIN INTAKE, EVAP, AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT). 4. UNIT TO INCLUDE 81% EFFICIENT FURNACE WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE, 6:1 TURNDOWN. 5. PROVIDE WITH FULLY MODULATING HOT GAS REHEAT. 6. 2" PLEATED FILTERS IN UNIT; MERV 8 MINIMUM EFFICIENCY. 7. 18" TALL ROOF CURB SLOPED TO MATCH ROOF PITCH. 8. AIR TIGHT FLEXIBLE DUCT CONNECTION TO ROOFTOP UNIT / ROOF CURB. 9. COORDINATE ELECTRICAL DISCONNECT AND CONNECTIONS WITH ELECTRICAL DRAWINGS. 10. PROVIDE INTEGRAL UNIT CONTROLLER WITH BACNET INTERFACE.																						

FACTORY BUILT DOUBLE WALL GREASE DUCT MODEL DW-2R SPECIFICATION:

FURNISH DOUBLE WALL, FACTORY BUILT GREASE DUCT FOR USE WITH TYPE I KITCHEN HOODS, WHICH CONFORMS TO THE REQUIREMENTS OF NFPA-96. PRODUCTS SHALL BE ETL LISTED TO UL-1978 AND UL-2221 FOR VENTING AIR AND GREASE VAPORS FROM COMMERCIAL COOKING OPERATION. TESTING HAS BEEN EXTENDED TO RECONGNIZE ASTM E2336 AND AC101 DUE TO SIMILAR TESTING CRITERIA. MODELS DW-2R, 3R AND 3Z ARE USED FOR GREASE DUCT APPLICATIONS WHEN INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS AND NFPA 96; STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS. DOUBLE WALL GREASE DUCTS ARE LISTED FOR A CONTINUOUS INTERNAL TEMPERATURE OF 500 DEGREES F AND INTERMITTENT TEMPERATURES OF 2000 DEGREES F. THE DUCT SECTIONS SHALL BE CONSTRUCTED OF AN INNER DUCT WALL AND AN OUTER WALL WITH INSULATION IN BETWEEN. THE INNER DUCT WALL SHALL BE CONSTRUCTED OF 0.036 INCH THINK, 430 TYPE STAINLESS STEEL AND BE AVAILABLE IN DIAMETERS 8" THROUGH 24". THE OUTER WALL SHALL BE CONSTRUCTED OF STAINLESS STEEL AT A MINIMUM OF 0.024 INCH THICKNESS. THE DUCT, BASED ON MODEL NUMBER, SHALL INCLUDE LAYERS OF SUPER WOOL 607 PLUS INSULATION BETWEEN THE INNER AND OUTER WALL. GREASE DUCT JOINTS SHALL BE HELD TOGETHER BY MEANS OF FORMED V CLAMPS AND SEALED WITH 3M FIRE BARRIER 2000+. THE DUCT WALL ASSEMBLY SHALL BE TESTED AT 3/4" OR ZERO INCH CLEARANCE, ACCORDING TO CLASSIFICATIONS.

CLASSIFICATIONS AND CLEARANCES
UL 2221: STANDARD FOR FIRE RESISTIVE GREASE DUCT ENCLOSURE ASSEMBLIES. CHAPTER 7 OF THIS STANDARD REFERENCES A TEST LABELED INTERNAL FIRE TEST. SECTION 7.1.1 REFERENCES TWO INSTALLATION CONDITIONS, CONDITION A AND CONDITION B. CONDITION A REPRESENTS ALL INSTALLATION CONDITION EXCEPT FOR INSTALLATION WITHIN NON-VENTILATED COMBUSTIBLE ENCLOSURES. CONDITION B REPRESENTS INSTALLATION WITHIN A NON-VENTILATED COMBUSTIBLE ENCLOSURE.

MODEL DW-2R IS CLASSIFIED UNDER UL2221 AS AN ALTERNATE TO 2-HR FIRE RESISTIVE SHAFT ENCLOSURES WITH A REDUCED CLEARANCE TO COMBUSTIBLES (SIZES 8" TO 16" DIAMETER). MODEL 2R IS LISTED IN ACCORDANCE WITH THE REQUIREMENTS FOR DUCT ENCLOSURE CONDITION B.

MODEL DW-2R: 3/4" CLEARANCE TO COMBUSTIBLES FROM THE SURFACE OF THE DUCT OUTER SHELL; ZERO INCH CLEARANCE FROM COMBUSTIBLES FROM THE TIP OF THE OUTER V BAND.

DOUBLE WALL GREASE DUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S "INSTALLATION, OPERATION AND MAINTENANCE MANUAL," ETL LISTING, STATE AND LOCAL CODES. FANS SHALL BE SUPPORTED INDEPENDENTLY FROM THE GREASE DUCT SECTIONS. PROTECT GREASE DUCT FROM TWISTING OR MOVEMENT CAUSED BY FAN TORQUE OR VIBRATION.

CERTIFICATIONS:
THE DW-2R SERIES HAS BEEN CERTIFIED BY ITS. THIS CERTIFICATION MARK INDICATES THAT THE PRODUCT HAS BEEN TESTED TO AND HAS MET THE MINIMUM REQUIREMENTS OF A WIDELY RECOGNIZED (CONSENSUS) U.S. AND CANADIAN PRODUCTS SAFETY STANDARD, THAT THE MANUFACTURING SITE HAS BEEN AUDITED, AND THAT THE APPLICANT HAS AGREED TO A PROGRAM OF PERIODIC FACTORY FOLLOW-UP INSPECTIONS TO VERIFY CONTINUED PERFORMANCE.

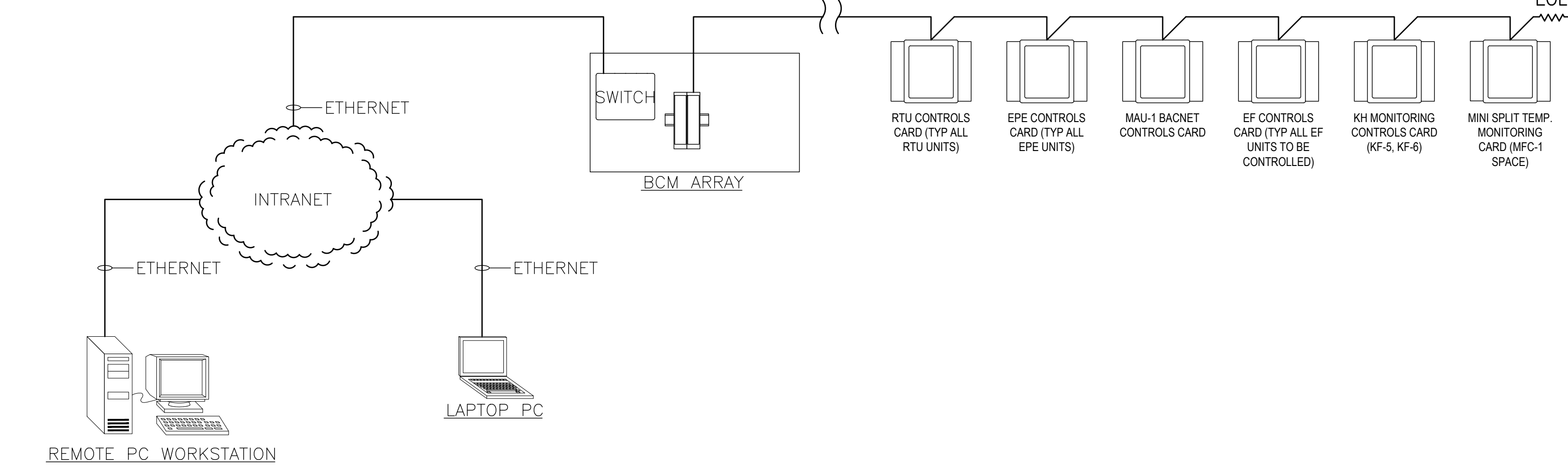
PASCUA YAQUI TRIBE

Micro Market

VICINITY

MECHANICAL SCHEDULES

M6.2



A NETWORK ARCHITECTURE DIAGRAM

SCALE: N/A

EXHAUST FAN POINTS (EF-1)										
POINT NAME	HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC	
	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	
FAN STATUS			X					X		X
FAN START/STOP				X				X		X
SCHEDULE							X			
FAN FAILURE									X	

SEQUENCE OF OPERATION: EXHAUST FAN (EF-1):

RUN CONDITIONS - SCHEDULED
THE EXHAUST FAN SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE, TO MATCH THE CORRESPONDING BUILDING OCCUPANCY SCHEDULE.

MINI SPLIT TEMPERATURE MONITORING POINTS (PER SPACE)										
POINT NAME	HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC	
	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	
ZONE TEMPERATURE	X		X					X		X
HIGH ZONE TEMP									X	

SEQUENCE OF OPERATION: PER EACH MINI SPLIT SPACE & WALK-IN FREEZER & COOLER:

EACH SPACE THAT HAS A MINI SPLIT, AS LISTED BELOW, SHALL BE PROVIDED WITH A TEMPERATURE SENSOR TO MONITOR THE SPACE TEMPERATURE. IF THE SPACE TEMPERATURE EXCEEDS SETPOINT BY +5°F (ADJ.), AN ALARM SHALL BE GENERATED.

- UNIT SPACES:
- MFC-1 SPACE
 - EACH OF THE WALK-IN COOLERS OR FREEZERS

THE SPACE TEMPERATURE SENSOR CAN BE CONNECTED TO A CONTROL CARD SERVED BY OTHER UNITS IF SPACE IS AVAILABLE

KITCHEN HOOD SEQUENCE OF OPERATION

- APPLIES TO EACH INDEPENDENT KITCHEN HOOD SET OF EQUIPMENT
- HOOD SETUP 1: KH-1/2/3, KEF-1/2/3, MAU-1
 - HOOD SETUP 2: KH-4, KEF-4

MANUAL UNIT START UP

- ON MANUAL ACTIVATION OF KH, KEF & MAU FAN SHALL ACTIVATE
- ON SWITCH OFF OF KH, KEF SHALL SWITCH OFF

AUTOMATIC UNIT START UP

- TEMPERATURE SENSOR DETECTS COOKING EQUIPMENT SWITCHED ON (READING AT MANUFACTURERS RECOMMENDED TEMPERATURE), KEF & MAU FAN SHALL SWITCH ON.
- ON TEMPERATURE SENSOR DETECTING COOKING EQUIPMENT SWITCHED OFF (READING LESS THAN MANUFACTURERS RECOMMENDED TEMPERATURE), KEF & MAU SHALL SWITCH OFF.

AUTOMATIC FIRE SUPPRESSION MODE

- HIGH TEMPERATURE READING AT SENSOR (MANUFACTURERS RECOMMENDED TEMPERATURE)
- EXHAUSTER FAN KEEPS RUNNING
- MAU FAN TURNS OFF
- SHUNT TRIP ELECTRICAL EQUIPMENT UNDER HOOD
- SHUT OFF GAS VALVE
- FIRE SUPPRESSION TRIGGERED
- FIRE SUPPRESSOR SETS OFF SUPERVISORY SIGNAL TO FIRE ALARM SYSTEM

MANUAL FIRE SUPPRESSION MODE

- ON MANUAL FIRE SUPPRESSANT ACTIVATION
- KEF KEEP RUNNING
- MAU FAN TURNS OFF
- SHUNT TRIP ELECTRICAL EQUIPMENT UNDER HOOD
- SHUT OFF GAS VALVE
- FIRE SUPPRESSION TRIGGERED
- FIRE SUPPRESSOR SETS OFF SUPERVISORY SIGNAL TO FIRE ALARM SYSTEM

KITCHEN HOODS TO OPERATE AT VARIABLE SPEED THROUGH CAPTIVE AIRE'S DCV SMART DIGITAL CONTROLLER

DURING TIMES WHERE KITCHEN HOOD IS NOT ON, MAKE-UP AIR UNIT AND KITCHEN HOOD EXHAUST FANS SHALL CYCLE ON AT LOW SPEED AS REQUIRED TO MAINTAIN SPACE TEMPERATURE

PACKAGED ROOFTOP UNIT AND ECONOMIZER/POWERED EXHAUST ACCESSORY POINTS (PER RTU AND EPE)										
POINT NAME	HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC	
	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	
ZONE TEMPERATURE	X							X		X
ZONE SETPOINT ADJUST	X									X
SPACE RELATIVE HUMIDITY	X							X		X
FILTER DIFFERENTIAL PRESSURE	X							X		X
OSA TEMP (GLOBAL)	X							X		X
OSA HUMIDITY (GLOBAL)	X							X		X
DISCHARGE TEMP	X							X		X
ZONE CO2 PPM (WHERE CO2 SENSOR INDICATED)	X							X		X
SPACE PRESSURE (FOR POWERED EXHAUST CONTROL)	X							X		X
MIXED AIR DAMPERS		X						X		X
ZONE OVERRIDE			X					X		X
SUPPLY FAN STATUS			X					X		X
POWERED EXHAUST FAN STATUS			X					X		X
SUPPLY FAN START/STOP				X				X		X
POWERED EXHAUST FAN START/STOP				X				X		X
GAS HEATING STAGES (TYP. POINT PER STAGE, OR AO POINT)				X				X		X
COMPRESSOR STAGE 1				X				X		X
COMPRESSOR STAGE 2 (AS APPLICABLE)				X				X		X
ZONE CO2 PPM SETPOINT (WHERE CO2 SENSOR INDICATED)					X			X		X
EMERGENCY SHUTDOWN						X		X	X	X
SCHEDULE							X			
HEATING SETPOINT									X	X
COOLING SETPOINT									X	X
HIGH ZONE TEMP									X	
LOW ZONE TEMP									X	
FILTER CHANGE REQUIRED									X	
HIGH DISCHARGE AIR TEMP									X	
LOW DISCHARGE AIR TEMP									X	
HIGH SPACE HUMIDITY									X	
SUPPLY FAN FAILURE									X	
POWERED EXHAUST FAN FAILURE									X	
HIGH ZONE CO2 PPM (WHERE CO2 SENSOR INDICATED)									X	

SEQUENCE OF OPERATION: PER EACH ROOFTOP UNIT (RTU):

RUN CONDITIONS - SCHEDULED

THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
 - A 75°F (ADJ.) COOLING SETPOINT; 50% RH MAX
 - A 72°F (ADJ.) HEATING SETPOINT; 50% RH MAX
- UNOCCUPIED MODE: THE UNIT SHALL MAINTAIN
 - A 85°F (ADJ.) COOLING SETPOINT (NOTE: AT MINIMUM, SHALL BE SET AT LISTED TEMPERATURE PER IECC REQUIREMENTS); 50% RH MAX
 - A 68°F (ADJ.) HEATING SETPOINT (NOTE: AT MAXIMUM, SHALL BE SET AT LISTED TEMPERATURE PER IECC REQUIREMENTS); 50% RH MAX

ZONE SETPOINT ADJUST

THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR BY +/- 2°F (ADJ.).

ZONE UNOCCUPIED OVERRIDE

A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE WHILE IN UNOCCUPIED MODE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME; START WITH A TIME OF 2 HOURS (ADJ.) AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE NORMAL SCHEDULE.

HEATING AND COOLING MODES: OCCUPIED AND UNOCCUPIED

THE UNIT AND COMPRESSORS OR GAS VALVE SHALL CYCLE BASED ON THE FACTORY CONTROL BOARD OR CONTROLS SYSTEM SIGNALS. THE UNITS SHALL CONTROL TO MAINTAIN HUMIDITY LEVELS WITH INTEGRAL HUMIDITY CONTROL EQUIPMENT.

OUTSIDE AIR DAMPER

THE OUTSIDE AIR DAMPER SHALL BE AT ITS MINIMUM AIRFLOW SETTING WHEN IN OCCUPIED MODE, AND SHALL BE CLOSED WHEN IN UNOCCUPIED MODE. SEE THE ECONOMIZER AND DEMAND CONTROLLED VENTILATION SECTIONS FOR OUTSIDE AIR DAMPER MODULATION AT THOSE POINTS. ALSO SEE SPECIFIC SEQUENCE FOR RTU-1 OUTSIDE AIR DAMPER. FOR HEAT PUMP UNITS WITH 2 SPEED INDOOR SUPPLY FANS, THE OUTSIDE AIR DAMPER SHALL ADJUST POSITION WHERE NECESSARY TO MAINTAIN SET OUTSIDE AIR FLOW BASED ON THE SUPPLY FAN SPEED. COORDINATE WITH TAB CONTRACTOR ON CORRECT SETTINGS, IF OUTSIDE AIR IS WITHIN AN ACCEPTABLE MARGIN (+/- 20%) AT ALL SUPPLY FAN SPEEDS, THE DAMPER SHALL BE MAINTAINED AT A CONSTANT MINIMUM POSITION.

ECONOMIZER MODE

ECONOMIZER MODE SHALL BE ENABLED WHEN THE OUTDOOR AIR DRYBULB TEMPERATURE IS LOWER THAN 65°F (ADJ.) AND THE OUTDOOR AIR DEWPOINT IS LOWER THAN 51°F (ADJ.). THE ECONOMIZER DAMPER SHALL FULLY MODULATE TO MAINTAIN A HEAT PUMP DISCHARGE AIR TEMPERATURE OF 55°F (ADJ.) OR AS REQUIRED TO MAINTAIN SPACE TEMPERATURE. NOTE THE ECONOMIZER DAMPER INCLUDES ALL DAMPERS IN THE ECONOMIZER/POWERED EXHAUST ACCESSORY.

ECONOMIZER/MIXED AIR DAMPERS TO BE CONTROLLED DIRECTLY THROUGH THE DDC CONTROLS SYSTEM, AND SHALL BE DELIVERED TO THE SITE READY FOR CONTROLS CONTRACTOR CONNECTIONS. COORDINATE WITH CONTROLS CONTRACTOR ON WHETHER DAMPER ACTUATORS SHALL BE PROVIDED BY UNIT MANUFACTURER, OR PROVIDED BY CONTROLS CONTRACTOR. COORDINATE EXACT ACTUATOR SELECTION WITH CONTROLS CONTRACTOR.

RTU-1 AND EPE-1 ONLY OUTSIDE AIR SEQUENCE:

THE OUTSIDE AIR DAMPER SHALL BE AT ITS MINIMUM AIRFLOW SETTING WHEN IN OCCUPIED MODE AND NOT IN OTHER MODES LISTED BELOW, AND SHALL BE CLOSED WHEN IN UNOCCUPIED MODE.

OTHER MODES:

- DEMAND CONTROLLED VENTILATION (DCV) MODE: WHEN THE CO2 IN EACH ZONE (WHERE APPLICABLE) RISES ABOVE 1000 PPM, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN IN STEPS UNTIL THE ZONE CO2 IS AGAIN BELOW 1000 PPM.
- KITCHEN HOOD OPERATING MODE: WHEN ONE OR BOTH KITCHEN HOODS (KH-5 OR KH-6) ARE IN OPERATION, THE OUTSIDE AIR SHALL BE AT ITS SCHEDULED MINIMUM OUTSIDE AIR (500 CFM).
- ECONOMIZER MODE: OPERATE IN ECONOMIZER MODE PER ECONOMIZER MODE SEQUENCE ABOVE.

POWERED EXHAUST

THE POWERED EXHAUST SHALL OPERATE AND MODULATE TO MAINTAIN A SPACE STATIC PRESSURE OF APPROXIMATELY +0.03" W.C. POWERED EXHAUST SHALL NOT RUN WHEN THE OUTSIDE AIR DAMPER IS AT MINIMUM OUTSIDE AIR SETTING.

SUPPLY FAN CONTROL

THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE.


FILTER MONITORING

THE FILTER DIFFERENTIAL PRESSURE SHALL BE MONITORED AND AN ALARM SHALL BE SET WHEN THE DIFFERENTIAL PRESSURE IS ABOVE THE RECOMMENDED FILTER CHANGE SETPOINT (ADJ.)

COMPATIBILITY WITH EXISTING OWNER CONTROLS SYSTEM:

THE BASIS OF DESIGN IS CARRIER CONTROLS. VERIFY THE EXACT CONTROLS SYSTEM REQUIREMENT WITH THE OWNER. THE NEW SYSTEM SHALL BE FULLY COMPATIBLE AND FULLY INTEGRATE WITH THE EXISTING OWNER CONTROLS SYSTEM, AND SHALL BE TIED INTO THE DISTRICT FRONT END. TIE IN TO THE EXISTING FRONT END PER DISTRICT REQUIREMENTS.

JOB NO. 4081



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TUCSON, AZ 85757

S VANTAGE

PROJECT LOCATION

S CAMINO POTAM

S CAMINO COCOIM

CALLE TORIM

W TAROOK

W TAROOK

VICINITY

REVISION		
NUMBER	DESCRIPTION	DATE
1	COUNTY COMMENTS	10/9/2024

PROJECT NO.	23C-001
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SHEET TITLE

MECHANICAL
CONTROLS

DATE 02.20.2024
SHEET

M7.1

15

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1

GENERAL PLUMBING NOTES

1. SCOPE OF WORK INCLUDED SHALL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT TO PROVIDE AN OPERATING PLUMBING SYSTEM.

2. ALL WASTE AND VENT PIPE SHALL BE PER PIPING MATERIAL SCHEDULE. JOINTS BETWEEN PLASTIC PIPE (PVC OR ABS) AND EXISTING HUBLESS CAST IRON PIPE SHALL BE MADE WITH AN APPROVED ADAPTER FITTING PER 2018 IPC, SECTION 705.16.4. ABS OR PVC PIPING MATERIALS ARE NOT APPROVED FOR INSTALLATION IN AIR PLENUMS.

3. ALL WASTE AND VENT PIPE SHALL BE WATER FILL TESTED.

4. ALL WORK SHALL CONFORM TO THE 2018 IPC, 2018 IFGC, 2018 IMC, 2018 IBC, 2020 NEC AND LOCAL CODES.

5. DISINFECT THE WATER SYSTEM PER ENVIRONMENTAL HEALTH SERVICES BULLETIN, LATEST EDITION.

6. SLOPE ALL WASTE LINES @ 1/4" PER FOOT UNLESS OTHERWISE APPROVED BY THE AUTHORITY HAVING JURISDICTION, OR OTHERWISE NOTED ON DRAWINGS.

7. ALL PLUMBING SYSTEMS SHALL BE INSPECTED AND TESTED FOR LEAKS PER THE IPC SECTION 312 AND ALL LOCAL REGULATIONS.

8. ALL FUEL GAS PIPING SHALL BE CLEARED OF DEBRIS, PURGED (FLUSHED), INSPECTED AND TESTED FOR LEAKS PER CURRENT IFGC SECTION 406 AND ALL LOCAL REGULATIONS.

9. INSULATE ALL STORM, HOT, RECIRCULATION, COLD AND CONDENSATE PIPING CONCEALED IN CEILING SPACES AND IN WALLS (UNCONDITIONED SPACES) PER THE PIPE MINIMUM INSULATION TABLE.

10. PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL COMPLY WITH 2018 IBC, SECTION 712 & 714.

11. ALL VALVES SHALL BE EASILY ACCESSIBLE & IN ACCESS PANELS.

12. ALL PIPING SHALL BE SUPPORTED FROM SAGGING, POCKETING, AND SWAYING.

13. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND ALL CONNECTIONS TO CITY WATER AND SEWER.

14. THESE DRAWINGS ARE IN GENERAL DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS AND GENERAL DIFFICULTIES IN INSTALLING THE SYSTEM. ASK IF YOU DO NOT UNDERSTAND, OR WE ASSUME YOU DO UNDERSTAND.

15. THE CONTRACTOR SHALL OFFER ONLY TOP QUALITY FIXTURES FOR APPROVAL BY THE OWNER OR THE ARCHITECT.

16. THE FINAL LOCATIONS OF ALL FIXTURES SHALL BE FIELD VERIFIED AND MEET THE APPROVAL OF THE OWNER OR HIS REPRESENTATIVE.

17. DRAIN, WASTE, VENT, AND RD&OF DRAIN PIPING INSTALLED IN RETURN AIR PLENUMS SHALL BE HUBLESS CAST IRON. NO EXCEPTIONS.

18. (XXXX SQ FT) = FLAT ROOF AREA + 50% OF VERTICAL WALL(S) AREA) AREA SHOWN @ 750&OF IN SQUARE FEET.

19. ALL BURIED NON-METALLIC PIPING SHALL BE IDENTIFIED WITH A MINIMUM #12 GAUGE SOLID COPPER INSULATED TRACER WIRE SECURELY ATTACHED TO PIPE OR WRAPPED AROUND THE PIPE. ATTACHMENTS SHALL BE PROVIDED AT MAXIMUM 20' INTERVALS AND AT EACH CHANGE IN DIRECTION. PER CITY AMENDMENT.

NOTE: SOME OF THE SYMBOLS AND ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT.

PLUMBING LEGEND

SYMBOLS		
SYMBOL	DESCRIPTION	ABBREVIATION
	CONDENSATE DRAIN	CND / CD
	CORROSIVE WASTE	COW
	DOMESTIC COLD WATER	DCW / CW
	DOMESTIC HOT WATER	DHW / HW
	DOMESTIC HOT WATER RECIRC.	DHWR / HWR
	DRAIN / OVERFLOW	D / DRAIN
	GREASE WASTE	GW
	LIQUEFIED PETROLEUM	LP / LPG
	NATURAL GAS	NG / G
	OVERFLOW LEADER	OFL / OST
	ROOF DRAIN LEADER	RDL / ST
	SANITARY SEWER / WASTE	SAN / WASTE
	TEMPERED WATER	105
	≤ 120° F WATER	120
	FILTERED WATER	FW
	SOFTENED WATER	SW
	TRAP PRIMER	TP
	RO WATER	RO
	VENT PIPING	VENT / V
	CONTINUATION	CONT.
	ELBOW DOWN	
	RISE UP	
	TEE DOWN	
	CAP	
	HOSE BIBB	HB
	WALL CLEAN-OUT	WCO
	GATE VALVE	
	GLOBE VALVE	
	CHECK VALVE	
	AUTOMATIC GAS SHUT OFF VALVE	
	HOT WATER CIRCULATOR PUMP	
	SHUT OFF VALVE	SOV
	GAS COCK	
	FLOOR / SURFACE CLEAN-OUT	FCO / SCO
	FLOOR DRAIN	FD
	FLOOR SINK	FS
	POINT OF CONNECTION	POC

ABBREVIATIONS			
AP	ACCESS PANEL	OF	OVERFLOW
AFF	ABOVE FINISH FLOOR	PEX	CROSS-LINKED PE
CI	CAST IRON	PVC	POLYVINYL CHLORIDE
CU	COPPER	RD	ROOF DRAIN
DN	DOWN	TYP	TYPICAL
EX / EXIST.	EXISTING	UG	UNDERGROUND
GC	GENERAL CONTRACTOR	VTR	VENT THRU ROOF
KEC	KITCHEN EQUIP CONTRACTOR	W/	WITH

PLUMBING SHEET INDEX

P1.1

PLUMBING GENERAL NOTES AND SYMBOLS

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PLUMBING PLAN - WASTE & VENT

P2.2

PLUMBING PLAN - DOM. WATER & NAT. GAS

P2.3

PLUMBING ROOF PLAN

P3.1

PLUMBING ISO-SCHEMATICS

P3.2

PLUMBING ISO-SCHEMATICS

P3.3

PLUMBING ISO-SCHEMATICS

P3.4

PLUMBING ISO-SCHEMATICS

P4.1

PLUMBING DETAILS

P4.2

PLUMBING DETAILS

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PLUMBING SCHEDULES

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PLUMBING SCHEDULES

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PLUMBING SCHEDULES

PLUMBING SPECS INDEX

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COMMON WORK RESULTS FOR PLUMBING

220503

PIPES AND TUBES FOR PLUMBING PIPING AND EQUIPMENT

220523

GENERAL-DUTY VALVES FOR PLUMBING PIPING

220529

HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

220700

PLUMBING INSULATION

221123

FACILITY NATURAL GAS PIPING

224000

PLUMBING FIXTURES

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JOB NO. 4081

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PROJECT LOCATION

S CAMINO POTAM

S CAMINO COCOIM

CALLE TORIM

W TAROOK

W TAROOK

VICINITY

REVISION

NUMBER

DESCRIPTION

DATE

1

COUNTY COMMENTS

10/9/2024

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23C-001

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SHEET TITLE

PLUMBING

GENERAL NOTES

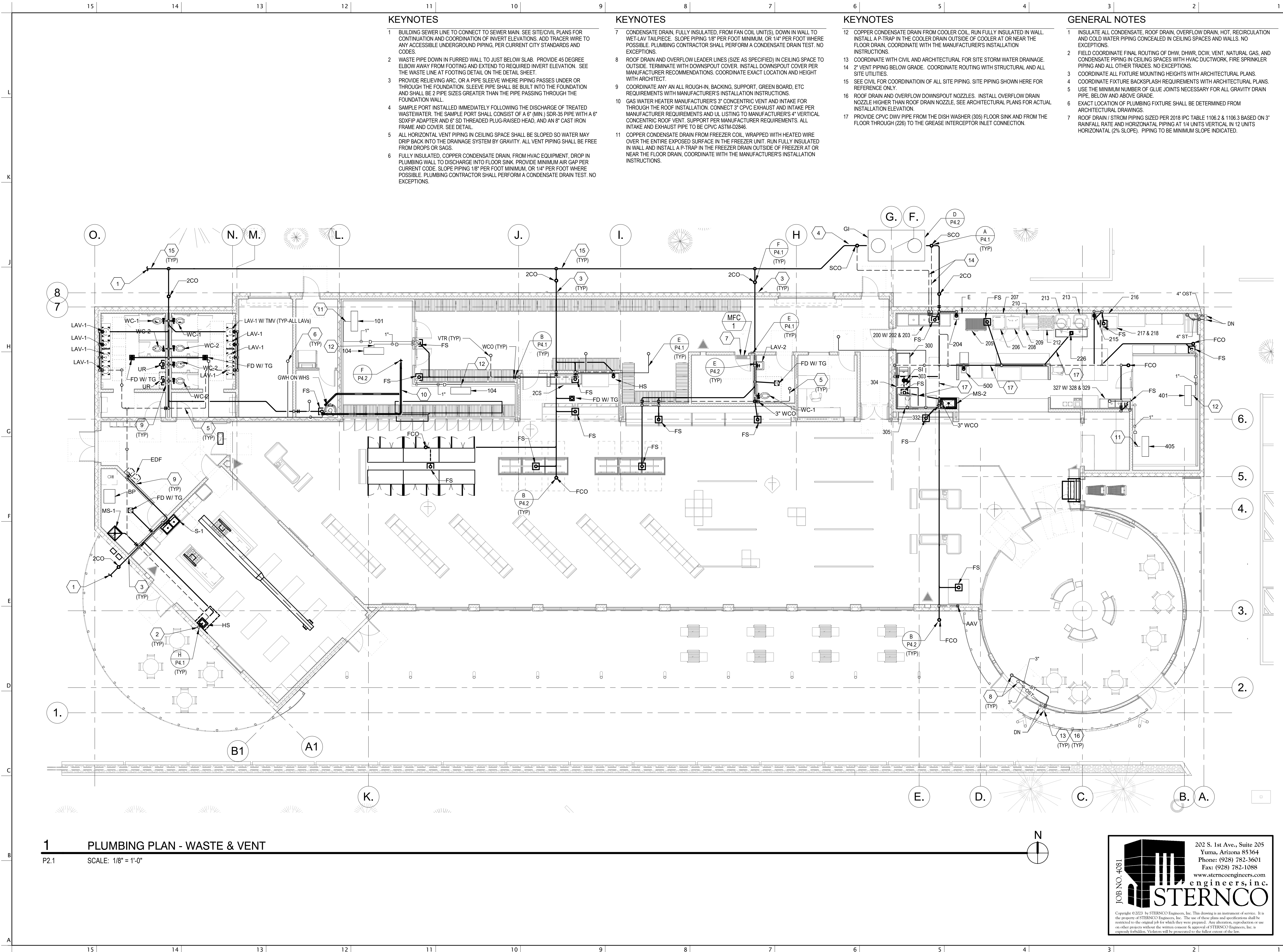
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DATE

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SHEET

P1.1



KEYNOTES

- BUILDING SEWER LINE TO CONNECT TO SEWER MAIN. SEE SITE/CIVIL PLANS FOR CONTINUATION AND COORDINATION OF INVERT ELEVATIONS. ADD TRACER WIRE TO ANY ACCESSIBLE UNDERGROUND PIPING, PER CURRENT CITY STANDARDS AND CODES.
- WASTE PIPE DOWN IN FURRED WALL TO JUST BELOW SLAB. PROVIDE 45 DEGREE ELBOW AWAY FROM FOOTING AND EXTEND TO REQUIRED INVERT ELEVATION. SEE THE WASTE LINE AT FOOTING DETAIL ON THE DETAIL SHEET.
- PROVIDE RELIEVING ARC, OR A PIPE SLEEVE WHERE PIPING PASSES UNDER OR THROUGH THE FOUNDATION. SLEEVE PIPE SHALL BE BUILT INTO THE FOUNDATION AND SHALL BE 2 PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE FOUNDATION WALL.
- SAMPLE PORT INSTALLED IMMEDIATELY FOLLOWING THE DISCHARGE OF TREATED WASTEWATER. THE SAMPLE PORT SHALL CONSIST OF A 6" (MIN.) SDR-35 PIPE WITH A 6" SDR-35 ADAPTER AND 6" SD THREADED PLUG-RAISED HEAD, AND AN 8" CAST IRON FRAME AND COVER. SEE DETAIL.
- ALL HORIZONTAL VENT PIPING IN CEILING SPACE SHALL BE SLOPED SO WATER MAY DRIP BACK INTO THE DRAINAGE SYSTEM BY GRAVITY. ALL VENT PIPING SHALL BE FREE FROM DROPS OR SAGS.
- FULLY INSULATED, COPPER CONDENSATE DRAIN, FROM HVAC EQUIPMENT, DROP IN PLUMBING WALL TO DISCHARGE INTO FLOOR SINK. PROVIDE MINIMUM AIR GAP PER CURRENT CODE. SLOPE PIPING 1/8" PER FOOT MINIMUM, OR 1/4" PER FOOT WHERE POSSIBLE. PLUMBING CONTRACTOR SHALL PERFORM A CONDENSATE DRAIN TEST. NO EXCEPTIONS.

KEYNOTES

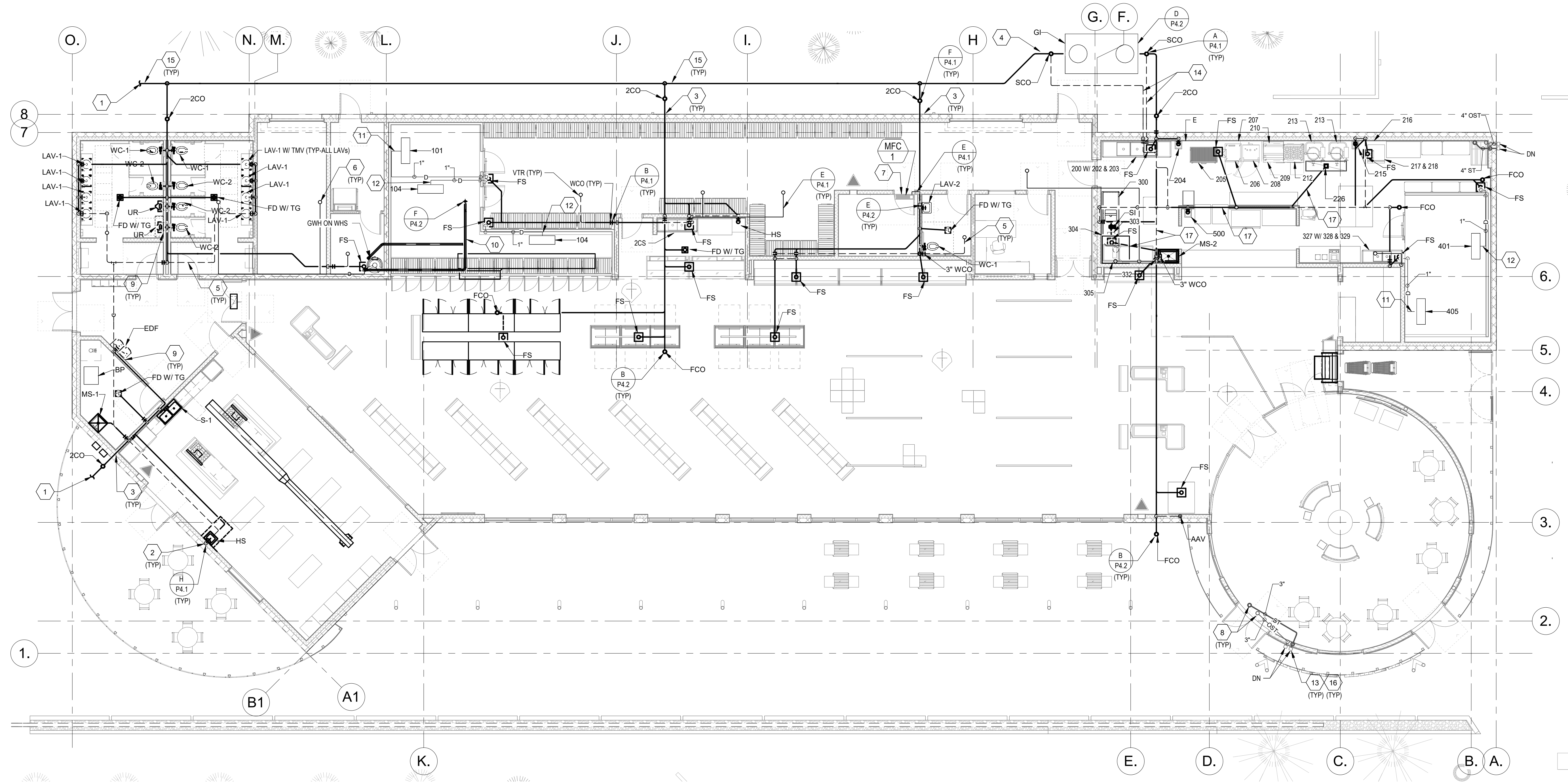
- CONDENSATE DRAIN, FULLY INSULATED, FROM FAN COIL UNIT(S), DOWN IN WALL TO WET-LAV TAILPIECE. SLOPE PIPING 1/8" PER FOOT MINIMUM, OR 1/4" PER FOOT WHERE POSSIBLE. PLUMBING CONTRACTOR SHALL PERFORM A CONDENSATE DRAIN TEST. NO EXCEPTIONS.
- ROOF DRAIN AND OVERFLOW LEADER LINES (SIZE AS SPECIFIED) IN CEILING SPACE TO OUTSIDE. TERMINATE WITH DOWNSPOUT COVER. INSTALL DOWNSPOUT COVER PER MANUFACTURER RECOMMENDATIONS. COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT.
- COORDINATE ANY AN ALL ROUGH-IN, BACKING, SUPPORT, GREEN BOARD, ETC REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- GAS WATER HEATER MANUFACTURER'S 3" CONCENTRIC VENT AND INTAKE FOR THROUGH THE ROOF INSTALLATION. CONNECT 3" CPVC EXHAUST AND INTAKE PER MANUFACTURER REQUIREMENTS AND UL LISTING TO MANUFACTURER'S 4" VERTICAL CONCENTRIC ROOF VENT. SUPPORT PER MANUFACTURER REQUIREMENTS. ALL INTAKE AND EXHAUST PIPE TO BE CPVC ASTM-D2846.
- COPPER CONDENSATE DRAIN FROM FREEZER COIL, WRAPPED WITH HEATED WIRE OVER THE ENTIRE EXPOSED SURFACE IN THE FREEZER UNIT. RUN FULLY INSULATED IN WALL AND INSTALL A P-TRAP IN THE FREEZER DRAIN OUTSIDE OF FREEZER AT OR NEAR THE FLOOR DRAIN, COORDINATE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

KEYNOTES

- COPPER CONDENSATE DRAIN FROM COOLER COIL, RUN FULLY INSULATED IN WALL. INSTALL A P-TRAP IN THE COOLER DRAIN OUTSIDE OF COOLER AT OR NEAR THE FLOOR DRAIN, COORDINATE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- COORDINATE WITH CIVIL AND ARCHITECTURAL FOR SITE STORM WATER DRAINAGE.
- 2" VENT PIPING BELOW GRADE. COORDINATE ROUTING WITH STRUCTURAL AND ALL SITE UTILITIES.
- SEE CIVIL FOR COORDINATION OF ALL SITE PIPING. SITE PIPING SHOWN HERE FOR REFERENCE ONLY.
- ROOF DRAIN AND OVERFLOW DOWNSPOUT NOZZLES. INSTALL OVERFLOW DRAIN NOZZLE HIGHER THAN ROOF DRAIN NOZZLE. SEE ARCHITECTURAL PLANS FOR ACTUAL INSTALLATION ELEVATION.
- PROVIDE CPVC DWV PIPE FROM THE DISH WASHER (305) FLOOR SINK AND FROM THE FLOOR THROUGH (226) TO THE GREASE INTERCEPTOR INLET CONNECTION.

GENERAL NOTES

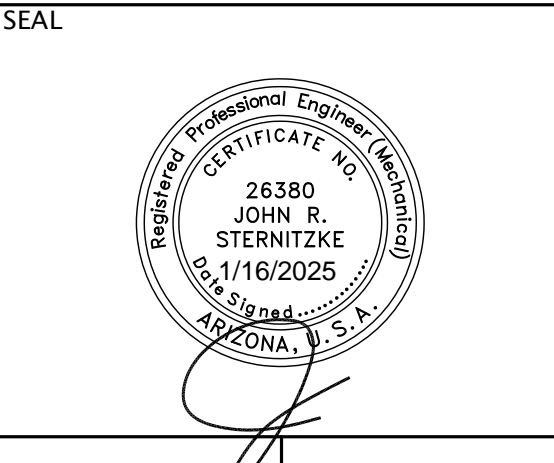
- INSULATE ALL CONDENSATE, ROOF DRAIN, OVERFLOW DRAIN, HOT, RECIRCULATION AND COLD WATER PIPING CONCEALED IN CEILING SPACES AND WALLS. NO EXCEPTIONS.
- FIELD COORDINATE FINAL ROUTING OF DHW, DHWR, DOW, VENT, NATURAL GAS, AND CONDENSATE PIPING IN CEILING SPACES WITH HVAC DUCTWORK, FIRE SPRINKLER PIPING AND ALL OTHER TRADES. NO EXCEPTIONS.
- COORDINATE ALL FIXTURE MOUNTING REQUIREMENTS WITH ARCHITECTURAL PLANS.
- COORDINATE FIXTURE BACKSPLASH REQUIREMENTS WITH ARCHITECTURAL PLANS.
- USE THE MINIMUM NUMBER OF GLUE JOINTS NECESSARY FOR ALL GRAVITY DRAIN PIPE, BELOW AND ABOVE GRADE.
- EXACT LOCATION OF PLUMBING FIXTURE SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- ROOF DRAIN / STORM PIPING SIZED PER 2018 IPC TABLE 1106.2 & 1106.3 BASED ON 3" RAINFALL RATE AND HORIZONTAL PIPING AT 1/4 UNITS VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE). PIPING TO BE MINIMUM SLOPE INDICATED.



1 PLUMBING PLAN - WASTE & VENT

P2.1 SCALE: 1/8" = 1'-0"

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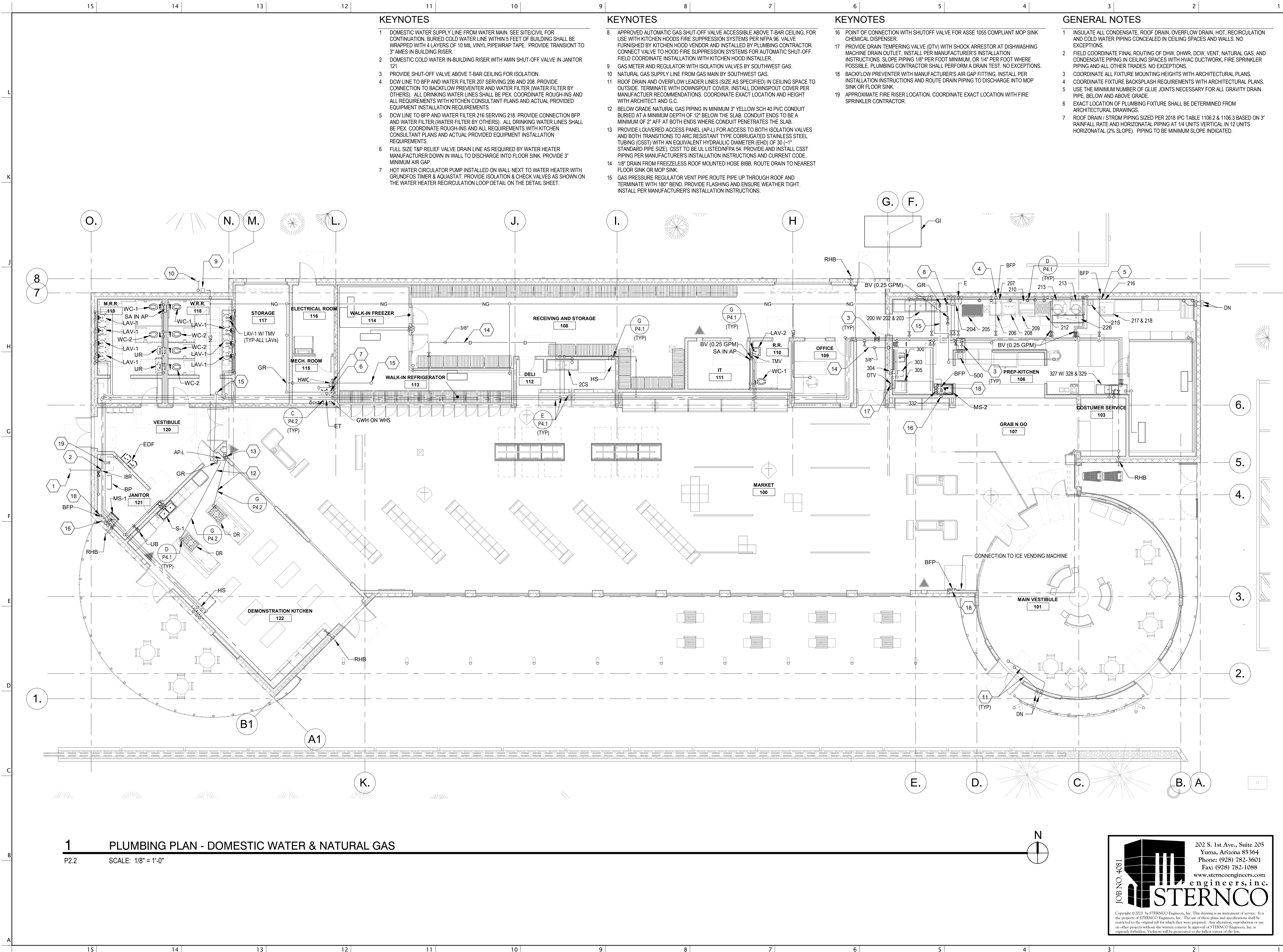
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PLUMBING PLAN - WASTE & VENT

DATE 02.20.2024
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P2.1

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1 PLUMBING PLAN - DOMESTIC WATER & NATURAL GAS
P2.2 SCALE: 1/8" = 1'-0"

KEYNOTES

- 1 DOMESTIC WATER SUPPLY LINE FROM WATER MAIN. SEE SITE/CIVIL FOR CONTINUATION. BURIED COLD WATER LINE WITHIN 5 FEET OF BUILDING SHALL BE WRAPPED WITH 4 LAYERS OF 10 MIL VINYL PIPEWRAP TAPE. PROVIDE TRANSIENT TO 3" AMES IN BUILDING RISER.
- 2 DOMESTIC COLD WATER IN-BUILDING RISER WITH AMIN SHUT-OFF VALVE IN JANITOR 121
- 3 PROVIDE SHUT-OFF VALVE ABOVE T-BAR CEILING FOR ISOLATION.
- 4 DOW LINE TO BFP AND WATER FILTER 207 SERVING 216 AND 208. PROVIDE CONNECTION TO BACKFLOW PREVENTER AND WATER FILTER (WATER FILTER BY OTHERS). ALL DRINKING WATER LINES SHALL BE PEX. COORDINATE ROUGH-INS AND ALL REQUIREMENTS WITH KITCHEN CONSULTANT PLANS AND ACTUAL PROVIDED EQUIPMENT INSTALLATION REQUIREMENTS.
- 5 DOW LINE TO BFP AND WATER FILTER 216 SERVING 218. PROVIDE CONNECTION BFP AND WATER FILTER (WATER FILTER BY OTHERS). ALL DRINKING WATER LINES SHALL BE PEX. COORDINATE ROUGH-INS AND ALL REQUIREMENTS WITH KITCHEN CONSULTANT PLANS AND ACTUAL PROVIDED EQUIPMENT INSTALLATION REQUIREMENTS.
- 6 FULL SIZE T&P RELIEF VALVE DRAIN LINE AS REQUIRED BY WATER HEATER MANUFACTURER DOWN IN WALL TO DISCHARGE INTO FLOOR SINK. PROVIDE 3" MINIMUM AIR GAP.
- 7 HOT WATER CIRCULATOR PUMP INSTALLED ON WALL NEXT TO WATER HEATER WITH GRUNDFOS TIMER & AQUASTAT. PROVIDE ISOLATION & CHECK VALVES AS SHOWN ON THE WATER HEATER RECIRCULATION LOOP DETAIL ON THE DETAIL SHEET.

KEYNOTES

- 8 APPROVED AUTOMATIC GAS SHUT-OFF VALVE ACCESSIBLE ABOVE T-BAR CEILING, FOR USE WITH KITCHEN HOODS FIRE SUPPRESSION SYSTEMS PER NFPA 96. VALVE FURNISHED BY KITCHEN HOOD VENDOR AND INSTALLED BY PLUMBING CONTRACTOR. CONNECT VALVE TO HOOD FIRE SUPPRESSION SYSTEMS FOR AUTOMATIC SHUT-OFF. FIELD COORDINATE INSTALLATION WITH KITCHEN HOOD INSTALLER.
- 9 GAS METER AND REGULATOR WITH ISOLATION VALVES BY SOUTHWEST GAS.
- 10 NATURAL GAS SUPPLY LINE FROM GAS MAIN BY SOUTHWEST GAS.
- 11 ROOF DRAIN AND OVERFLOW LEADER LINES (SIZE AS SPECIFIED) IN CEILING SPACE TO OUTSIDE. TERMINATE WITH DOWNSPOUT COVER. INSTALL DOWNSPOUT COVER PER MANUFACTURER RECOMMENDATIONS. COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT AND G.C.
- 12 BELOW GRADE NATURAL GAS PIPING IN MINIMUM 3" YELLOW SCH 40 PVC CONDUIT BURIED AT A MINIMUM DEPTH OF 12" BELOW THE SLAB. CONDUIT ENDS TO BE A MINIMUM OF 2" AFF AT BOTH ENDS WHERE CONDUIT PENETRATES THE SLAB.
- 13 PROVIDE LOUVERED ACCESS PANEL (AP-L) FOR ACCESS TO BOTH ISOLATION VALVES AND BOTH TRANSITIONS TO ARC RESISTANT TYPE CORRUGATED STAINLESS STEEL TUBING (CSST) WITH AN EQUIVALENT HYDRAULIC DIAMETER (EHD) OF 30 1/4" STANDARD PIPE SIZE, CSST TO BE UL LISTED/NFPA 54. PROVIDE AND INSTALL CSST PIPING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CURRENT CODE.
- 14 1/8" DRAIN FROM FREEZELESS ROOF MOUNTED HOSE BIBB, ROUTE DRAIN TO NEAREST FLOOR SINK OR MOP SINK.
- 15 GAS PRESSURE REGULATOR VENT PIPE ROUTE PIPE UP THROUGH ROOF AND TERMINATE WITH 180° BEND. PROVIDE FLASHING AND ENSURE WEATHER TIGHT. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

KEYNOTES

- 16 POINT OF CONNECTION WITH SHUTOFF VALVE FOR ASSE 1055 COMPLIANT MOP SINK CHEMICAL DISPENSER.
- 17 PROVIDE DRAIN TEMPERING VALVE (DTV) WITH SHOCK ARRESTOR AT DISHWASHING MACHINE DRAIN OUTLET, INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SLOPE PIPING 1/8" PER FOOT MINIMUM, OR 1/4" PER FOOT WHERE POSSIBLE. PLUMBING CONTRACTOR SHALL PERFORM A DRAIN TEST. NO EXCEPTIONS.
- 18 BACKFLOW PREVENTER WITH MANUFACTURER'S AIR GAP FITTING, INSTALL PER INSTALLATION INSTRUCTIONS AND ROUTE DRAIN PIPING TO DISCHARGE INTO MOP SINK OR FLOOR SINK.
- 19 APPROXIMATE FIRE RISER LOCATION, COORDINATE EXACT LOCATION WITH FIRE SPRINKLER CONTRACTOR.

GENERAL NOTES

- 1 INSULATE ALL CONDENSATE, ROOF DRAIN, OVERFLOW DRAIN, HOT, RECIRCULATION AND COLD WATER PIPING CONCEALED IN CEILING SPACES AND WALLS. NO EXCEPTIONS.
- 2 FIELD COORDINATE FINAL ROUTING OF DHW, DHWR, DOW, VENT, NATURAL GAS, AND CONDENSATE PIPING IN CEILING SPACES WITH HVAC DUCTWORK, FIRE SPRINKLER PIPING AND ALL OTHER TRADES. NO EXCEPTIONS.
- 3 COORDINATE ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS.
- 4 COORDINATE FIXTURE BACKSPLASH REQUIREMENTS WITH ARCHITECTURAL PLANS.
- 5 USE THE MINIMUM NUMBER OF GLUE JOINTS NECESSARY FOR ALL GRAVITY DRAIN PIPE, BELOW AND ABOVE GRADE.
- 6 EXACT LOCATION OF PLUMBING FIXTURE SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- 7 ROOF DRAIN / STORM PIPING SIZED PER 2018 IPC TABLE 1106.2 & 1106.3 BASED ON 3" RAINFALL RATE AND HORIZONTAL PIPING AT 1/4 UNITS VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE). PIPING TO BE MINIMUM SLOPE INDICATED.

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VICINITY

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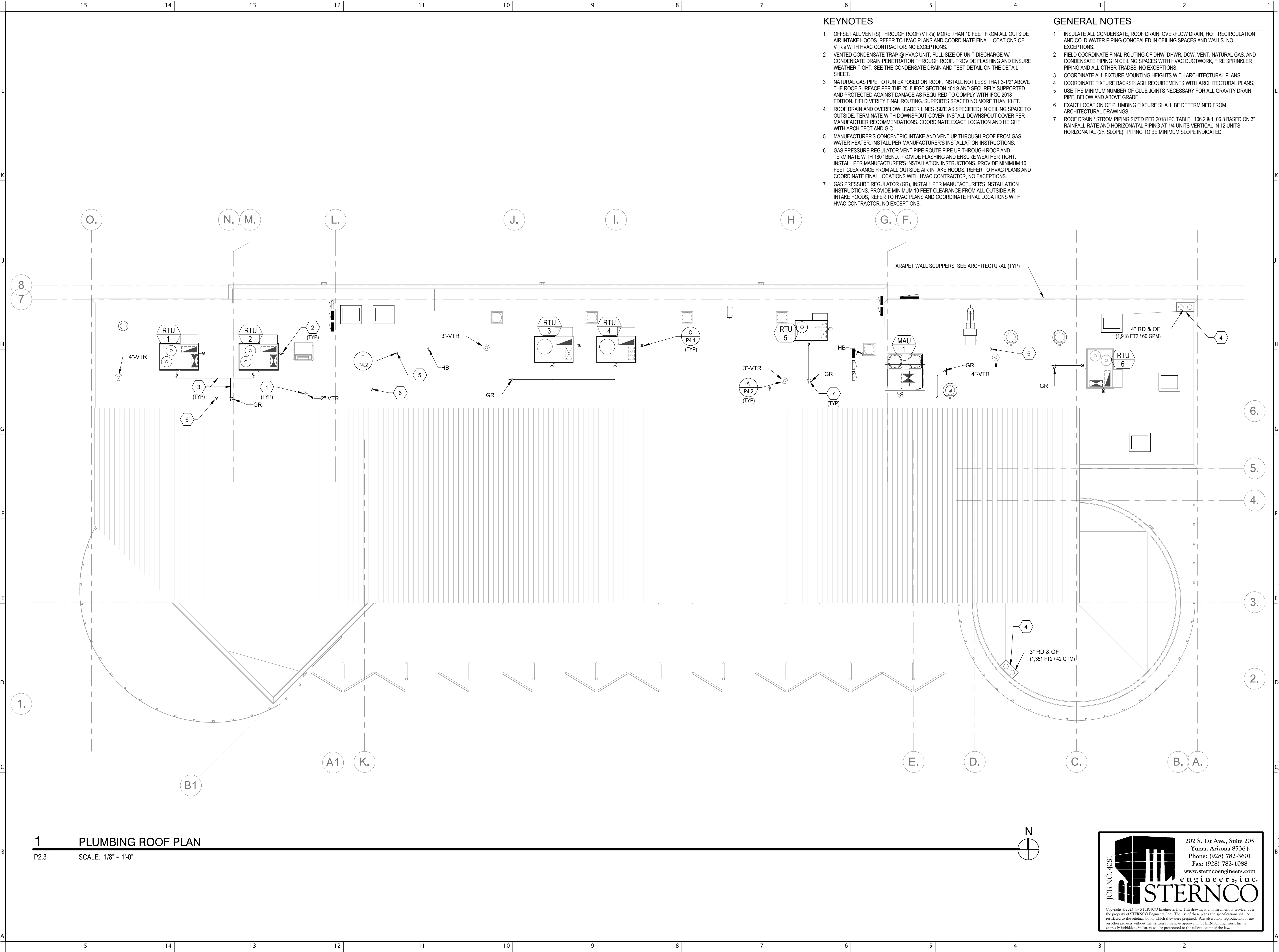
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PLUMBING PLAN - DOM. WATER & NAT. GAS	
DATE	02.20.2024
SHEET	
P2.2	

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KEYNOTES

- 1 OFFSET ALL VENT(S) THROUGH ROOF (VTRs) MORE THAN 10 FEET FROM ALL OUTSIDE AIR INTAKE HOODS. REFER TO HVAC PLANS AND COORDINATE FINAL LOCATIONS OF VTRs WITH HVAC CONTRACTOR. NO EXCEPTIONS.
- 2 VENTED CONDENSATE TRAP @ HVAC UNIT. FULL SIZE OF UNIT DISCHARGE W/ CONDENSATE DRAIN PENETRATION THROUGH ROOF. PROVIDE FLASHING AND ENSURE WEATHER TIGHT. SEE THE CONDENSATE DRAIN AND TEST DETAIL ON THE DETAIL SHEET.
- 3 NATURAL GAS PIPE TO RUN EXPOSED ON ROOF. INSTALL NOT LESS THAT 3-1/2" ABOVE THE ROOF SURFACE PER THE 2018 IFGC SECTION 404.9 AND SECURELY SUPPORTED AND PROTECTED AGAINST DAMAGE AS REQUIRED TO COMPLY WITH IFGC 2018 EDITION. FIELD VERIFY FINAL ROUTING. SUPPORTS SPACED NO MORE THAN 10 FT.
- 4 ROOF DRAIN AND OVERFLOW LEADER LINES (SIZE AS SPECIFIED) IN CEILING SPACE TO OUTSIDE. TERMINATE WITH DOWNSPOUT COVER. INSTALL DOWNSPOUT COVER PER MANUFACTUER RECOMMENDATIONS. COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT AND G.C.
- 5 MANUFACTURER'S CONCENTRIC INTAKE AND VENT UP THROUGH ROOF FROM GAS WATER HEATER. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 6 GAS PRESSURE REGULATOR VENT PIPE ROUTE PIPE UP THROUGH ROOF AND TERMINATE WITH 180° BEND. PROVIDE FLASHING AND ENSURE WEATHER TIGHT. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE MINIMUM 10 FEET CLEARANCE FROM ALL OUTSIDE AIR INTAKE HOODS. REFER TO HVAC PLANS AND COORDINATE FINAL LOCATIONS WITH HVAC CONTRACTOR. NO EXCEPTIONS.
- 7 GAS PRESSURE REGULATOR (GR), INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE MINIMUM 10 FEET CLEARANCE FROM ALL OUTSIDE AIR INTAKE HOODS. REFER TO HVAC PLANS AND COORDINATE FINAL LOCATIONS WITH HVAC CONTRACTOR. NO EXCEPTIONS.

GENERAL NOTES

- 1 INSULATE ALL CONDENSATE, ROOF DRAIN, OVERFLOW DRAIN, HOT, RECIRCULATION AND COLD WATER PIPING CONCEALED IN CEILING SPACES AND WALLS. NO EXCEPTIONS.
- 2 FIELD COORDINATE FINAL ROUTING OF DHW, DHWR, DOW, VENT, NATURAL GAS, AND CONDENSATE PIPING IN CEILING SPACES WITH HVAC DUCTWORK, FIRE SPRINKLER PIPING AND ALL OTHER TRADES. NO EXCEPTIONS.
- 3 COORDINATE ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS.
- 4 COORDINATE FIXTURE BACKSPLASH REQUIREMENTS WITH ARCHITECTURAL PLANS.
- 5 USE THE MINIMUM NUMBER OF GLUE JOINTS NECESSARY FOR ALL GRAVITY DRAIN PIPE, BELOW AND ABOVE GRADE.
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- 7 ROOF DRAIN / STORM PIPING SIZED PER 2018 IPC TABLE 1106.2 & 1106.3 BASED ON 3" RAINFALL RATE AND HORIZONTAL PIPING AT 1/4 UNITS VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE). PIPING TO BE MINIMUM SLOPE INDICATED.

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S CAMINO POTAM

S CAMINO COCOM

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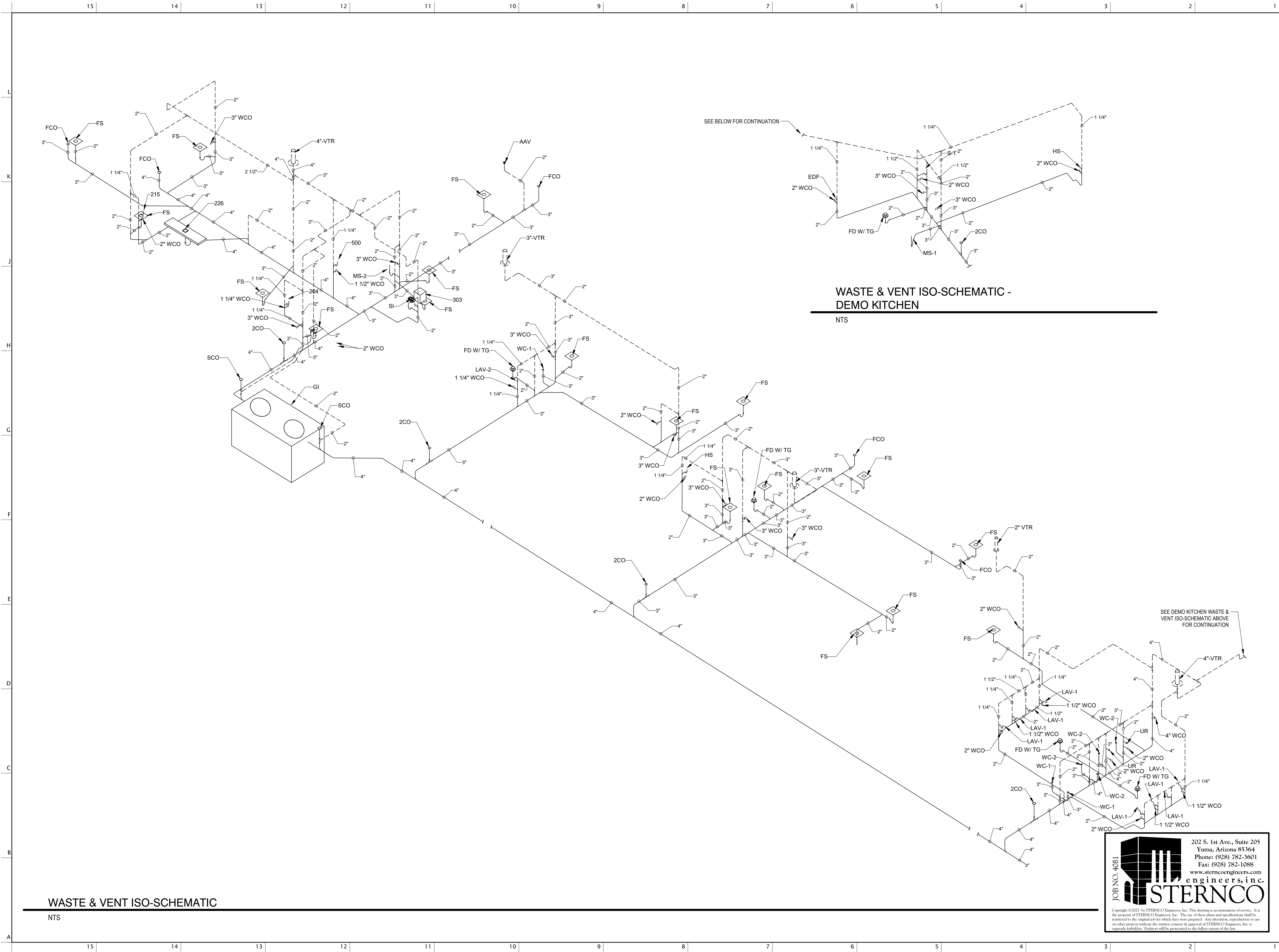
SHEET TITLE

PLUMBING ROOF PLAN

DATE 02.20.2024

SHEET

P2.3



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PLUMBING ISO-SCHEMATICS

DATE

02.20.2024

SHEET

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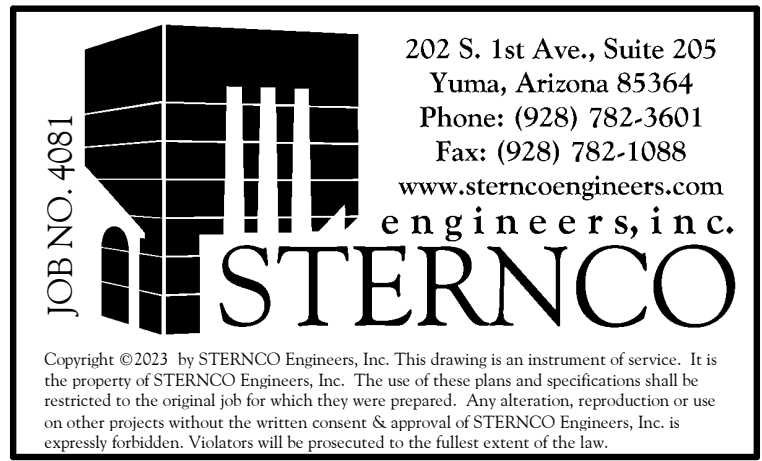
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WASTE & VENT ISO-SCHEMATIC

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P3.2

GAS PIPE CALLOUT		
1	2	3
1 - AMOUNT OF GAS (CFH) 2 - APPROXIMATE LENGTH (FT) 3 - DIA. OF PIPE		
XXX' = EQUIVALENT LENGTH OF FITTING		

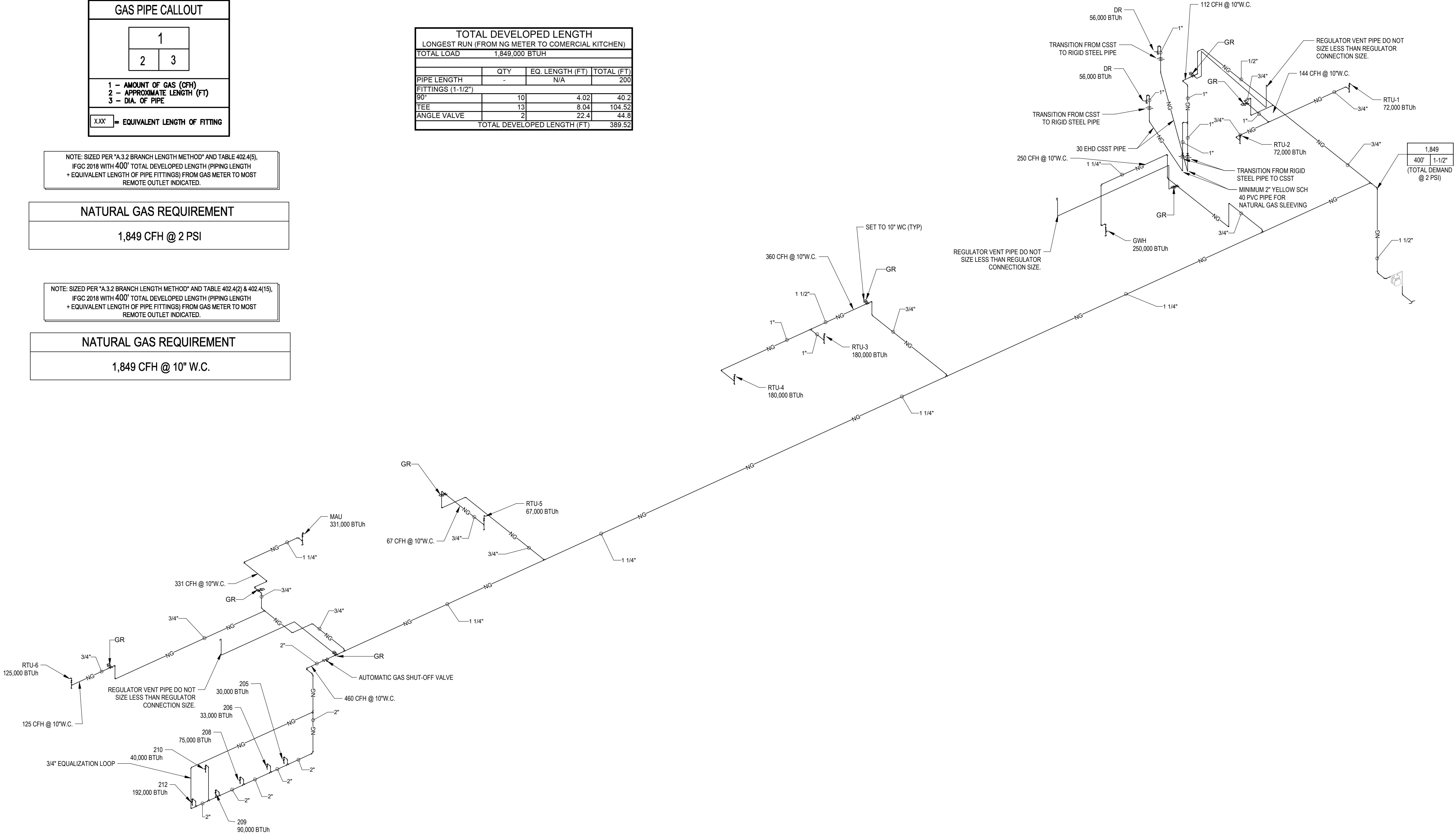
NOTE: SIZED PER "A.3.2 BRANCH LENGTH METHOD" AND TABLE 402.4(5),
IFGC 2018 WITH 400' TOTAL DEVELOPED LENGTH (PIPING LENGTH
+ EQUIVALENT LENGTH OF PIPE FITTINGS) FROM GAS METER TO MOST
REMOTE OUTLET INDICATED.

NATURAL GAS REQUIREMENT
1,849 CFH @ 2 PSI

NOTE: SIZED PER "A.3.2 BRANCH LENGTH METHOD" AND TABLE 402.4(2) & 402.4(15),
IFGC 2018 WITH 400' TOTAL DEVELOPED LENGTH (PIPING LENGTH
+ EQUIVALENT LENGTH OF PIPE FITTINGS) FROM GAS METER TO MOST
REMOTE OUTLET INDICATED.

NATURAL GAS REQUIREMENT
1,849 CFH @ 10" W.C.


TOTAL DEVELOPED LENGTH			
LONGEST RUN (FROM NG METER TO COMERCIAL KITCHEN)			
TOTAL LOAD 1,849,000 BTUH			
PIPE LENGTH	QTY	EQ. LENGTH (FT)	TOTAL (FT)
90°	-	N/A	200
FITTINGS (1-1/2")	-	-	-
TEE	10	4.02	40.2
TEE	13	8.04	104.52
ANGLE VALVE	2	22.4	44.8
TOTAL DEVELOPED LENGTH (FT) 389.52			



NATURAL GAS ISO-SCHEMATIC

NTS

JOB NO. 4081



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SEAL



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S. VATGUE

PROJECT LOCATION



CALLE TORIM

S. CAMINO POTAM

S. CAMINO COCOIM

W. TAROOK

W. TAROOK

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REVISION	NUMBER	DESCRIPTION	DATE

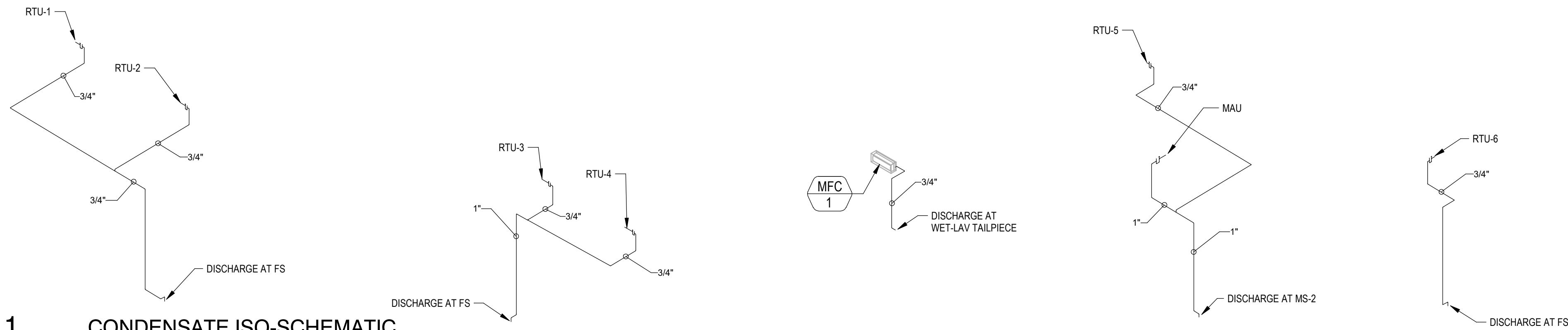
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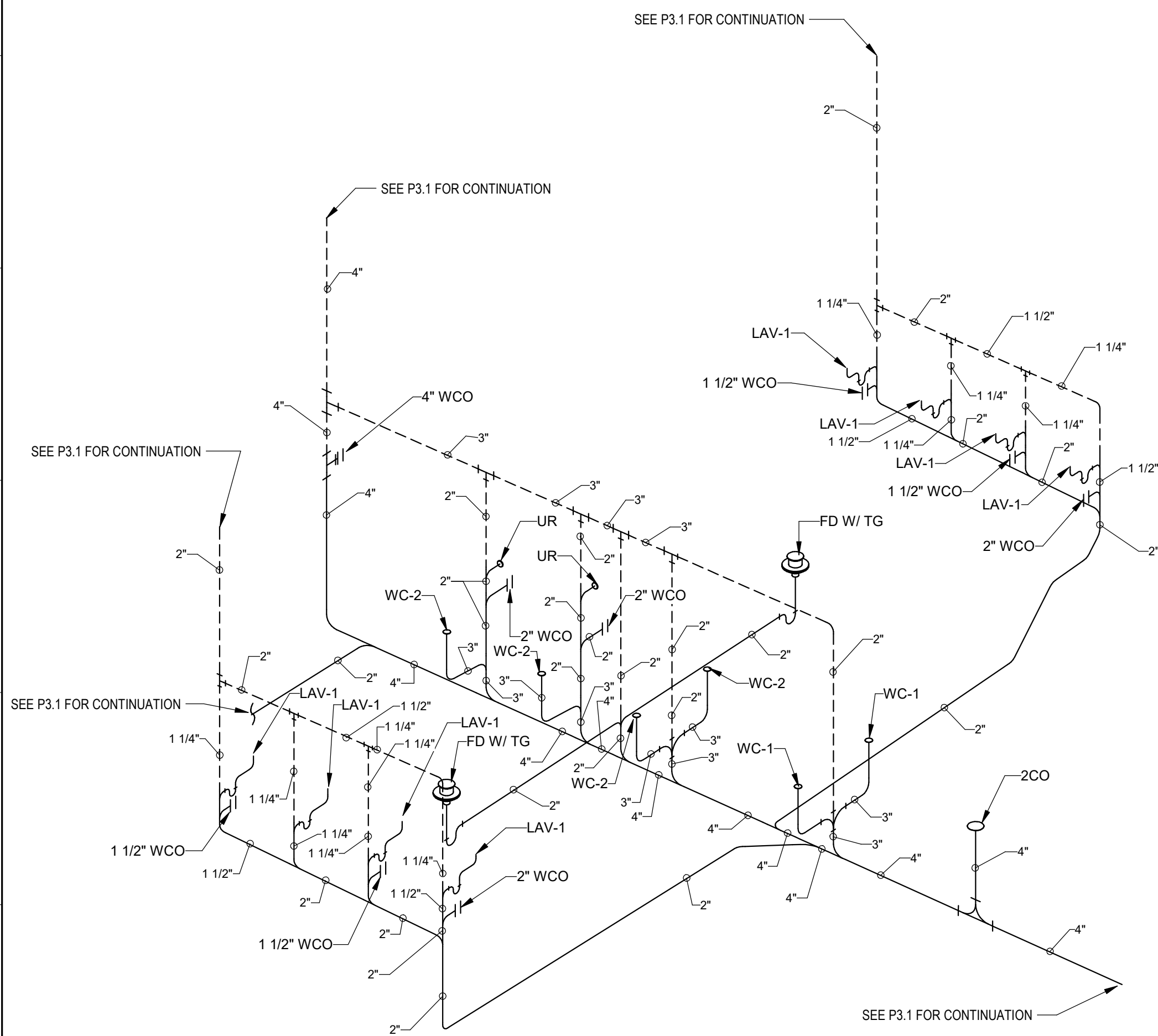
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P3.3



1 CONDENSATE ISO-SCHEMATIC

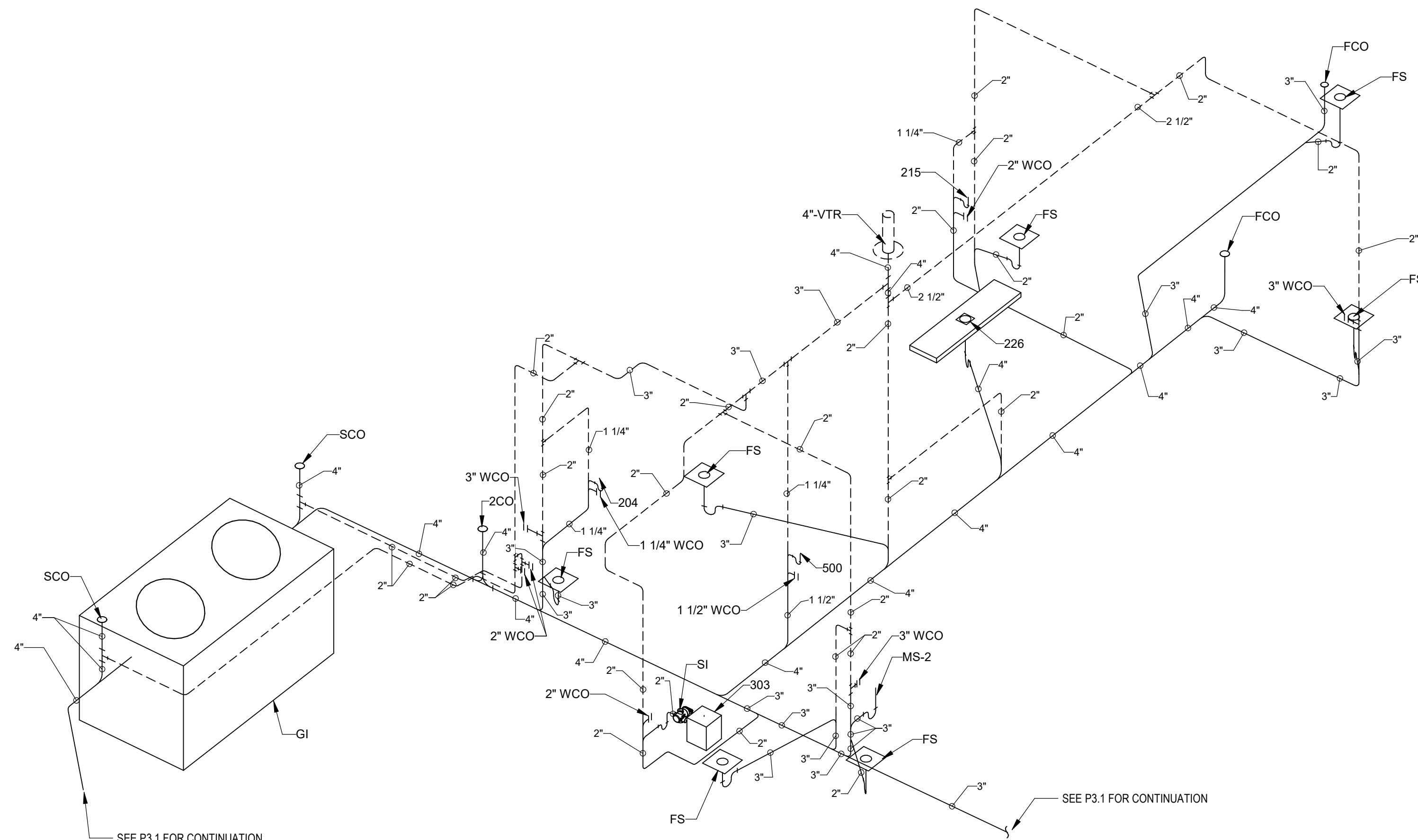
P3.4



2 WASTE & VENT ISO -SCHEMATIC - MAIN RESTROOM ENALARGED

P3.4

SCALE:




3 WASTE & VENT ISO -SCHEMATIC - KITCHEN ENLARGED

P3.4

SCALE:

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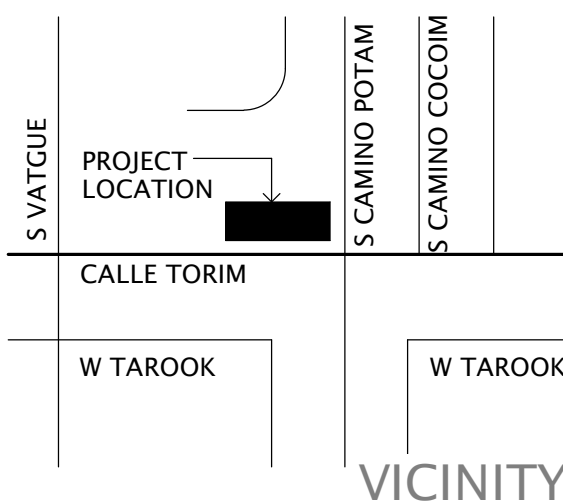


Pascua Yaqui Tribe

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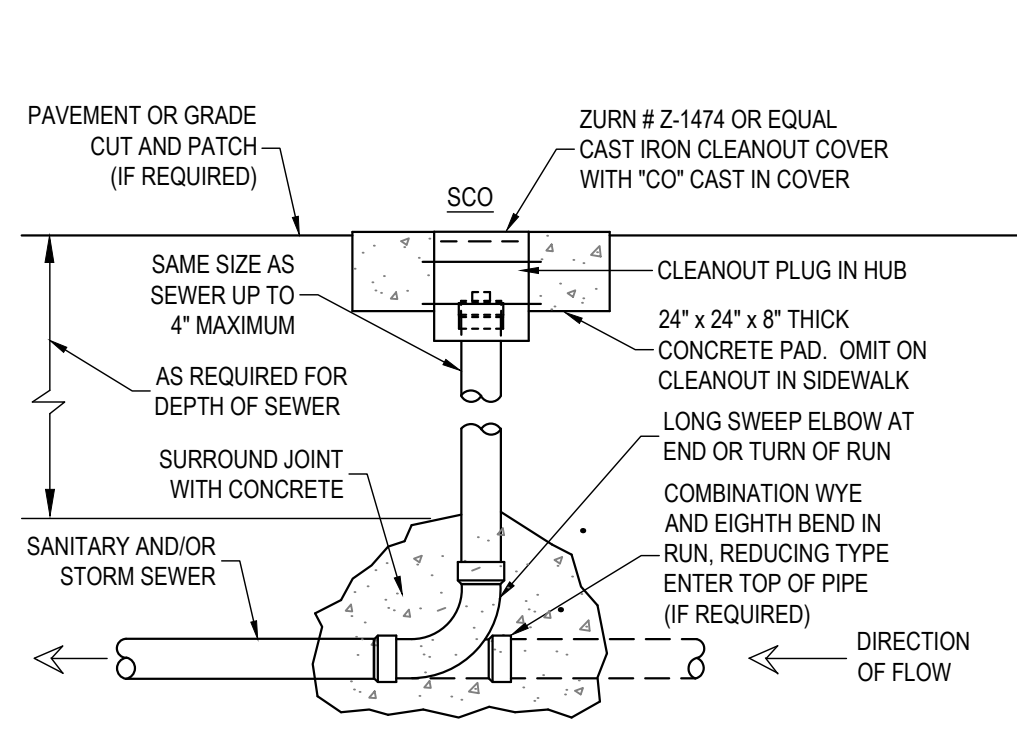
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SHEET TITLE

PLUMBING
ISO-SCHEMATICS

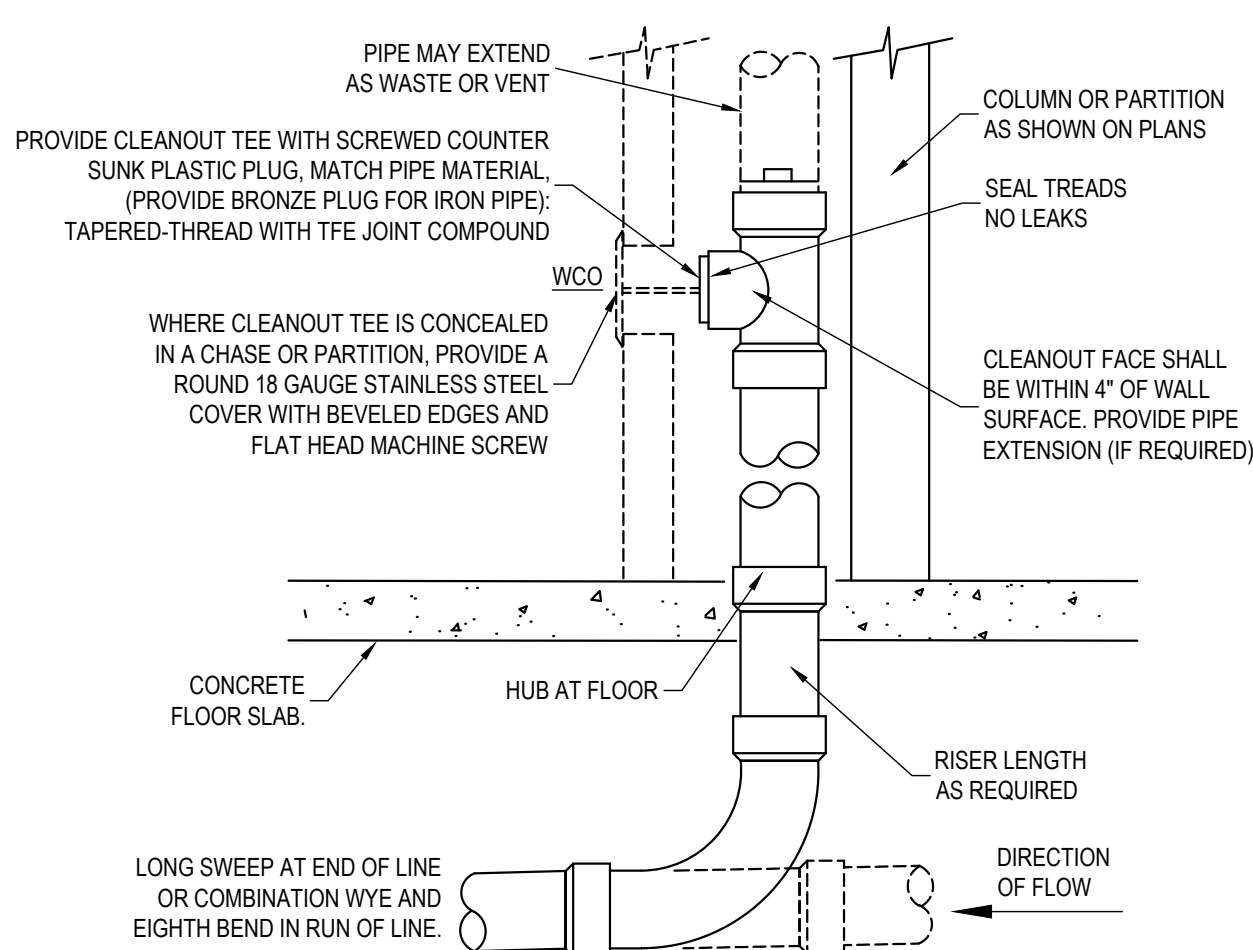
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SHEET

P3.4

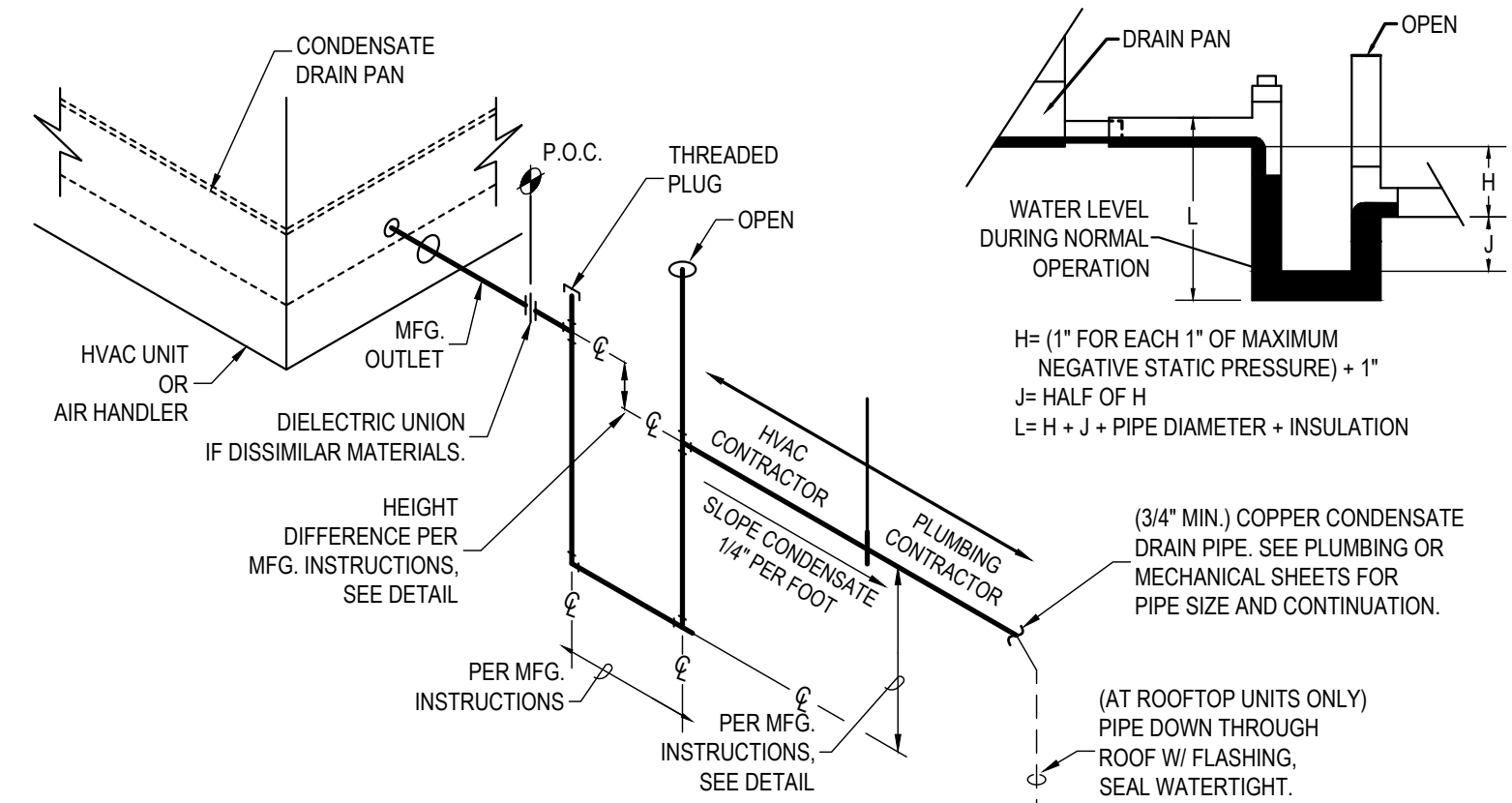


NOTE: LOCATE EXTERIOR CLEANOUTS AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT MAXIMUM 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS. VERIFY SOIL/ROCK CONDITIONS WITH GEOTECHNICAL REPORT OR SITE EXAMINATION. USE ACRYLONITRILE-BUTADIENE-STYRENE (ABS) OR SCHEDULE-40 POLYVINYLCHLORIDE (PVC) PIPE & FITTINGS WITH SOLVENT WELD JOINTS. BACKFILL WITH CRUSHED ROCK TO COVER PIPE MINIMUM 6". PROVIDE EARTH BACKFILL & COMPACTION PER ARCHITECTURAL SPECS. REPAIR ANY SOD AND/OR PAVEMENT TO MATCH EXISTING.

A SURFACE CLEANOUT (SCO) DETAIL
SCALE: N.T.S.

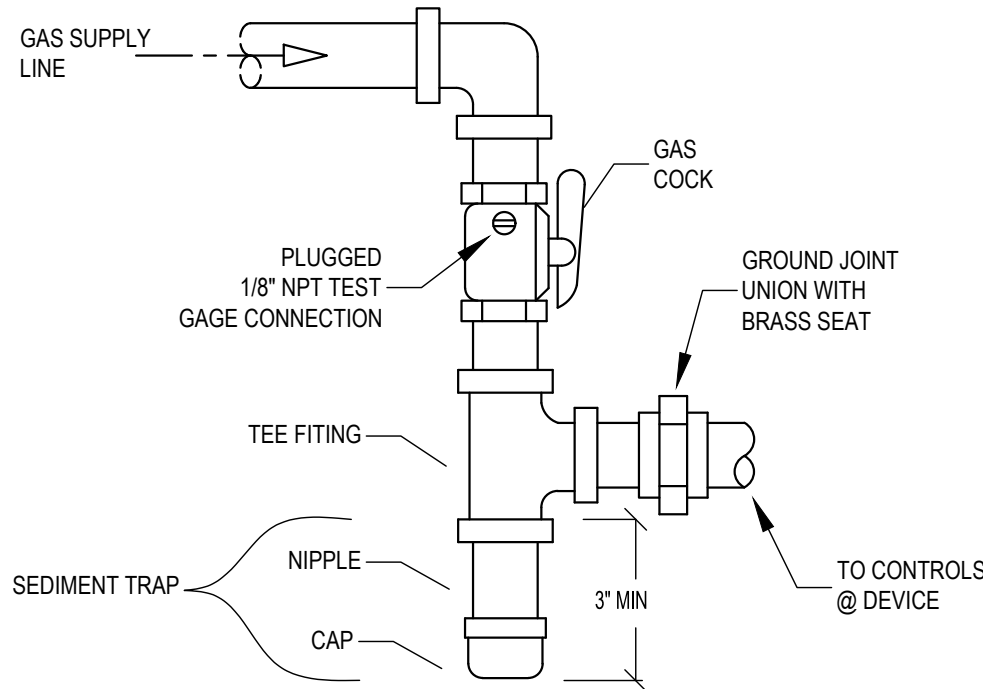


B WALL CLEANOUT (WCO) DETAIL
SCALE: N.T.S.

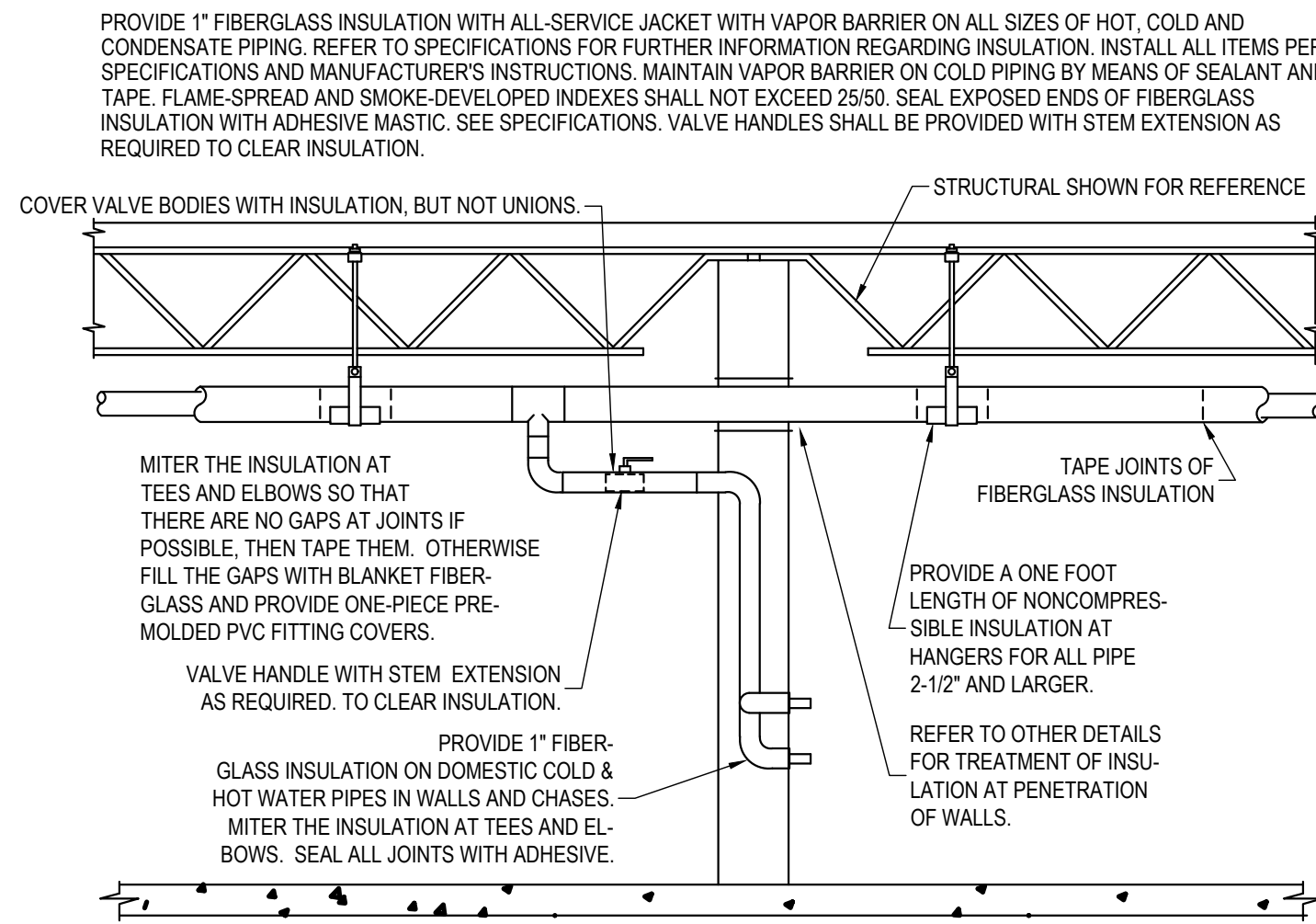


PLUMBING AND/OR HVAC CONTRACTOR SHALL COORDINATE TO PERFORM A DRAIN TEST USING WATER. FILL CONDENSATE COLLECTION PAN WITH WATER. ACCESS DRAIN PAN THROUGH OPEN CABINET DOOR OR REMOVED ACCESS PANEL. CHECK FOR PROPER DRAINAGE WITH UNIT RUNNING AFTER REPLACING UNIT ACCESS PANEL OR CLOSING DOOR. THIS TEST SHALL BE APPROVED BY THE ENGINEER PRIOR TO ACCEPTANCE. ALL CONDENSATE PIPING SHALL ALSO BE TESTED PER CODE "DRAINAGE AND VENT" TEST.

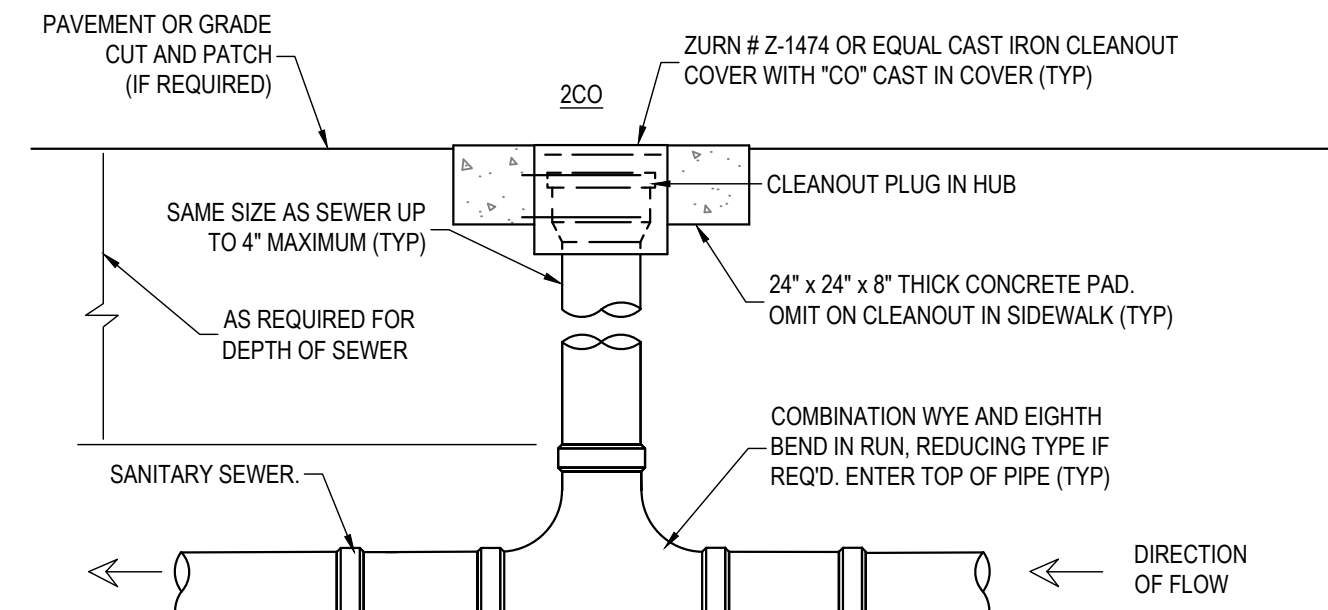
C CONDENSATE DRAIN & TEST DETAIL
SCALE: N.T.S.



D TYPICAL GAS CONNECTION DETAIL
SCALE: N.T.S.

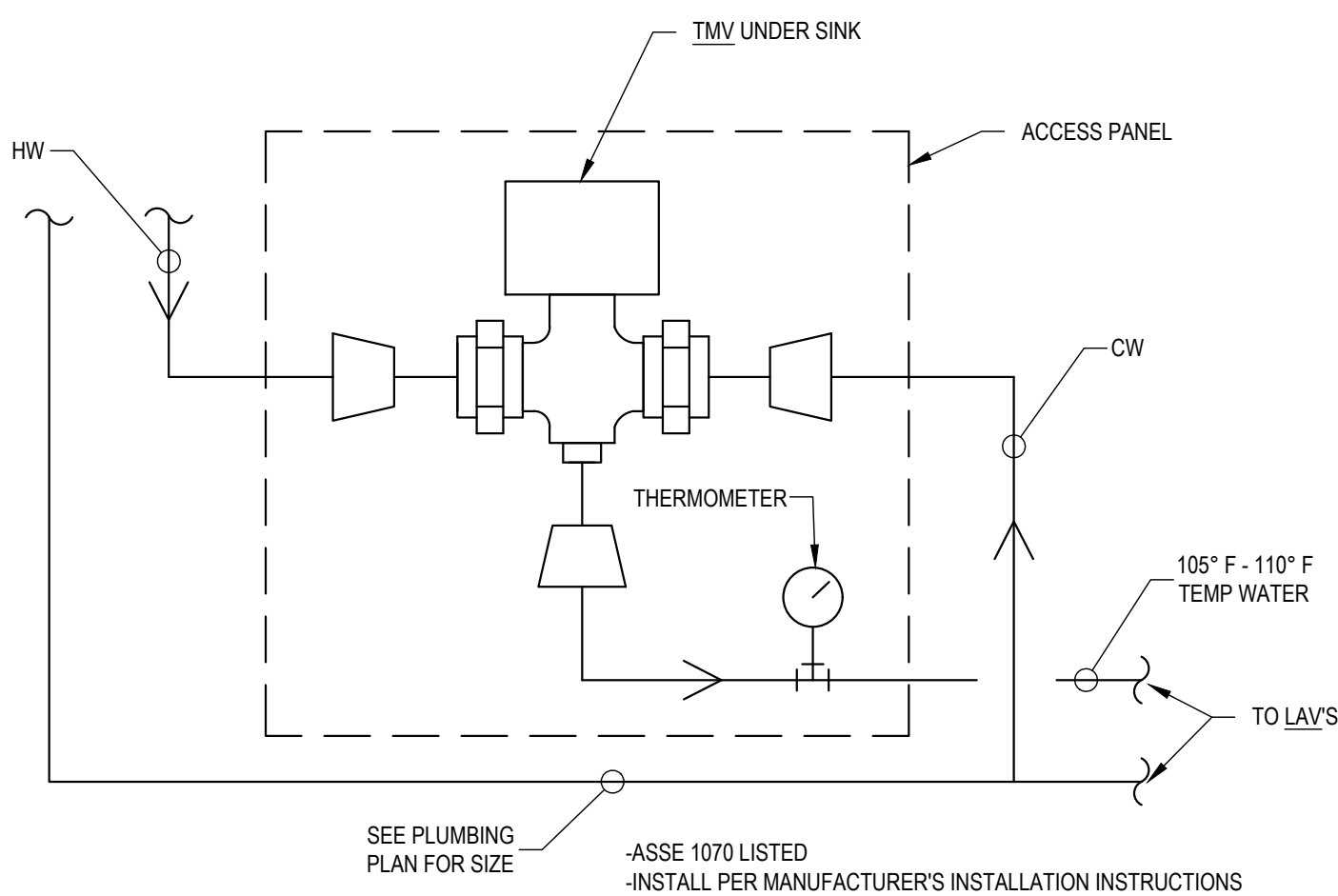


E PIPE INSULATION DETAIL
SCALE: N.T.S.

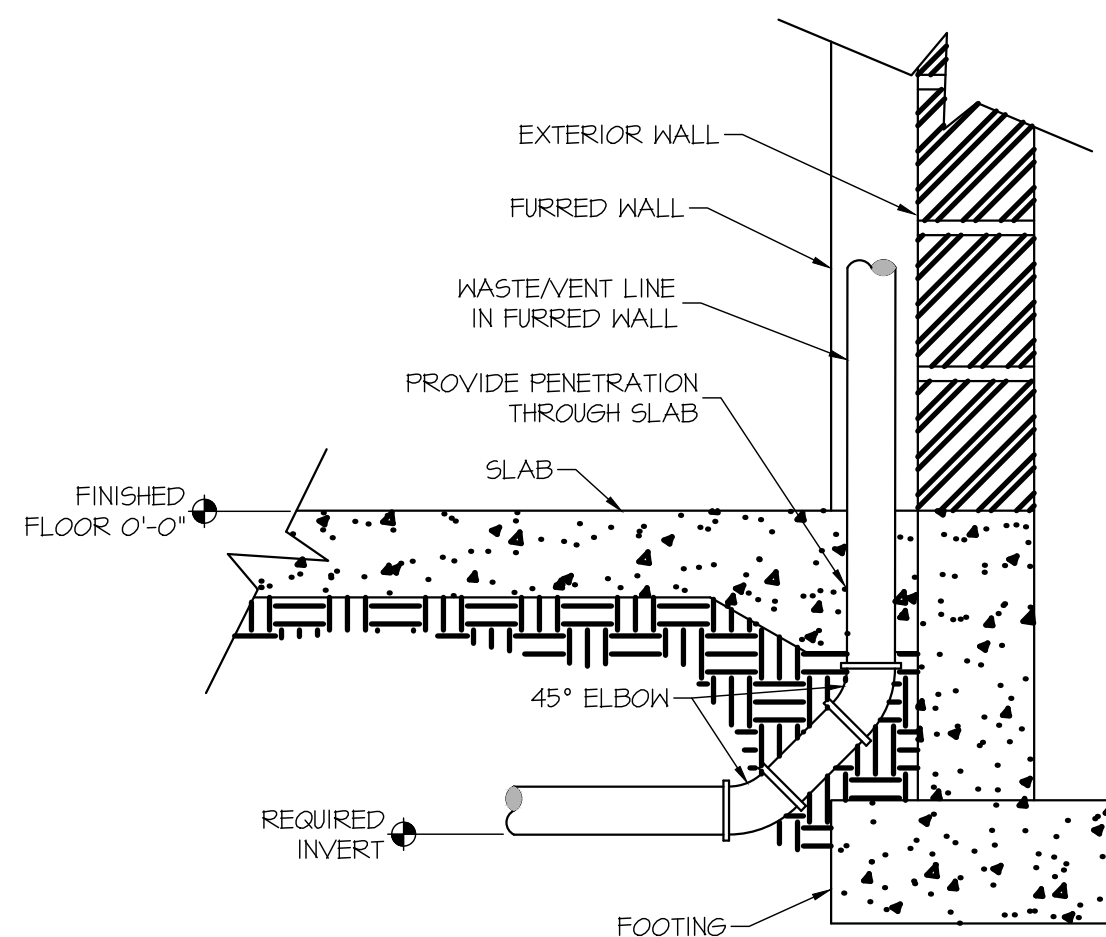


NOTE: LOCATE 2-WAY CLEANOUT WITHIN 5' OF EXTERIOR OF BUILDING. VERIFY SOIL/ROCK CONDITIONS WITH GEOTECHNICAL REPORT OR SITE EXAMINATION. USE ACRYLONITRILE-BUTADIENE-STYRENE (ABS) OR SCHEDULE-40 POLYVINYLCHLORIDE (PVC) PIPE & FITTINGS WITH SOLVENT WELD JOINTS. BACKFILL WITH CRUSHED ROCK TO COVER PIPE MINIMUM 6". PROVIDE EARTH BACKFILL & COMPACTION PER ARCHITECTURAL SPECS. REPAIR ANY SOD AND/OR PAVEMENT TO MATCH EXISTING.

F 2-WAY CLEANOUT (2CO) DETAIL
SCALE: N.T.S.



G THERMOSTATIC MIXING VALVE DETAIL
SCALE: N.T.S.



H WASTE LINE @ FOOTING DETAIL
SCALE: N.T.S.

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PROJECT LOCATION

S VATGUE, S CAMINO POTAM, S CAMINO COCOIM

W TAROOK, W TAROOK

VICINITY

REVISION	DESCRIPTION	DATE
NUMBER 1	COUNTY COMMENTS	10/9/2024

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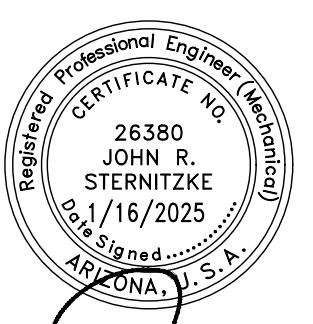
DATE 02.20.2024

SHEET

P4.1



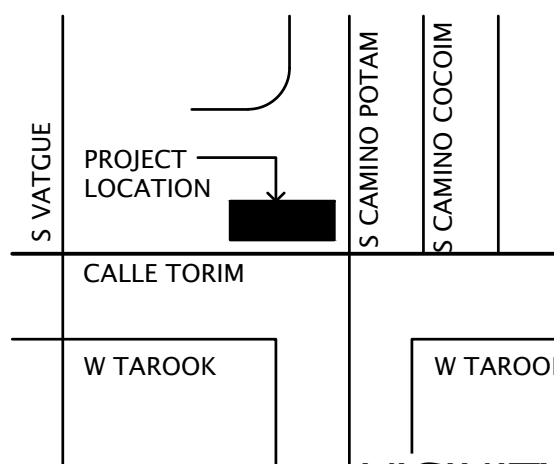
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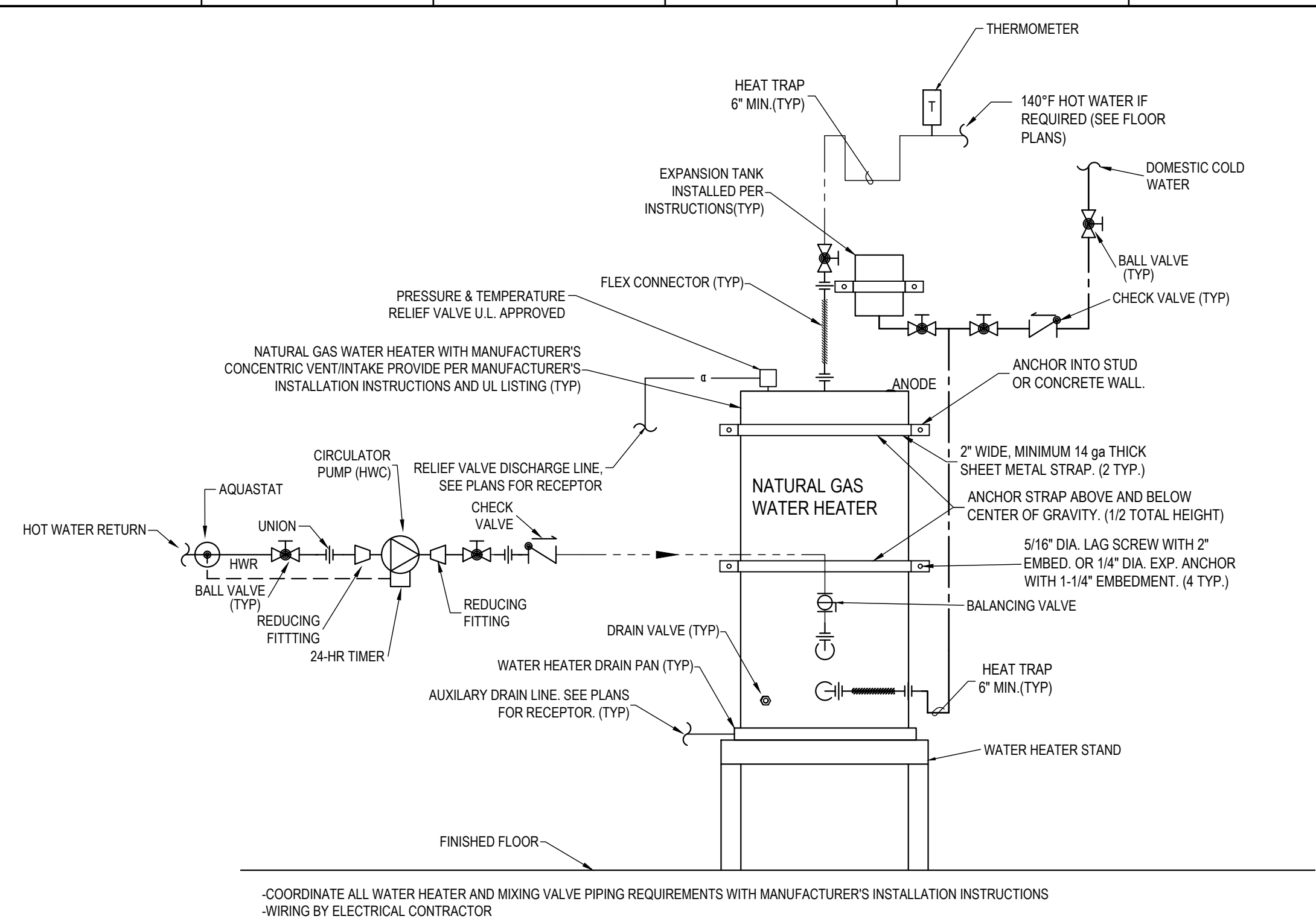
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**PLUMBING
DETAILS**

DATE 02.20.2024
SHEET

P4.2



C NATURAL GAS WATER HEATER DETAIL
SCALE: N.T.S.

NOTE: THESE IMAGES ARE FROM THE INSTALLATION MANUAL OF THE GAS WATER HEATER SHOWN SCHEDULED ON THE PLUMBING PLANS (A.O. SMITH MODEL 6TH 250). CONFIRM EXACT CONCENTRIC VENT REQUIREMENTS WITH EXACT PROVIDED WATER HEATER

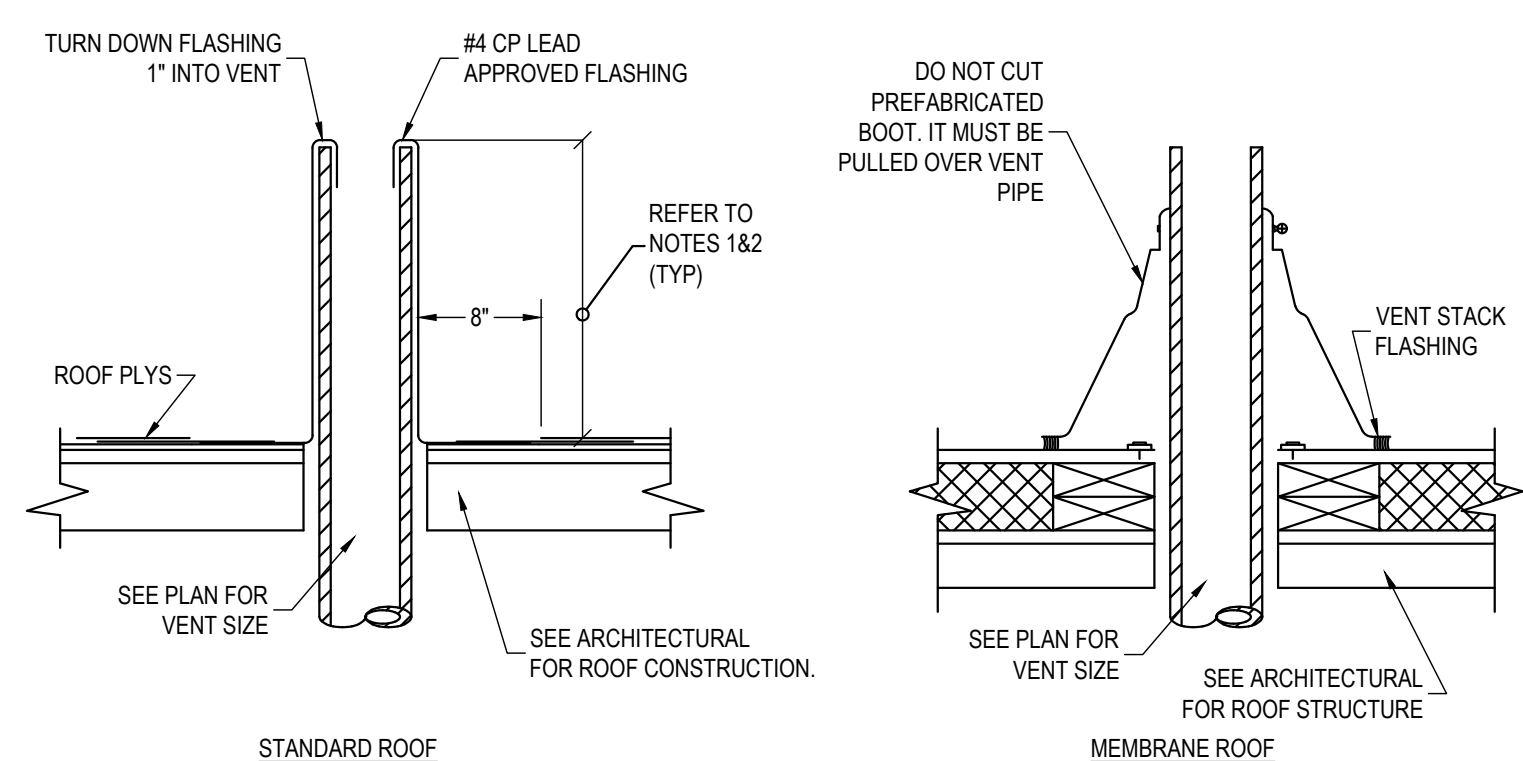
Model	2"	3"	4"	2"	3"	4"
120	12' to 40'	7' to 50'	50' to 120'	4	4	6
150	12' to 40'	7' to 50'	50' to 120'	4	4	6
199	12' to 40'	7' to 50'	50' to 120'	4	4	6
250	12' to 20'	7' to 50'	50' to 120'	2	4	6

Figure 28. Concentric Termination Kit

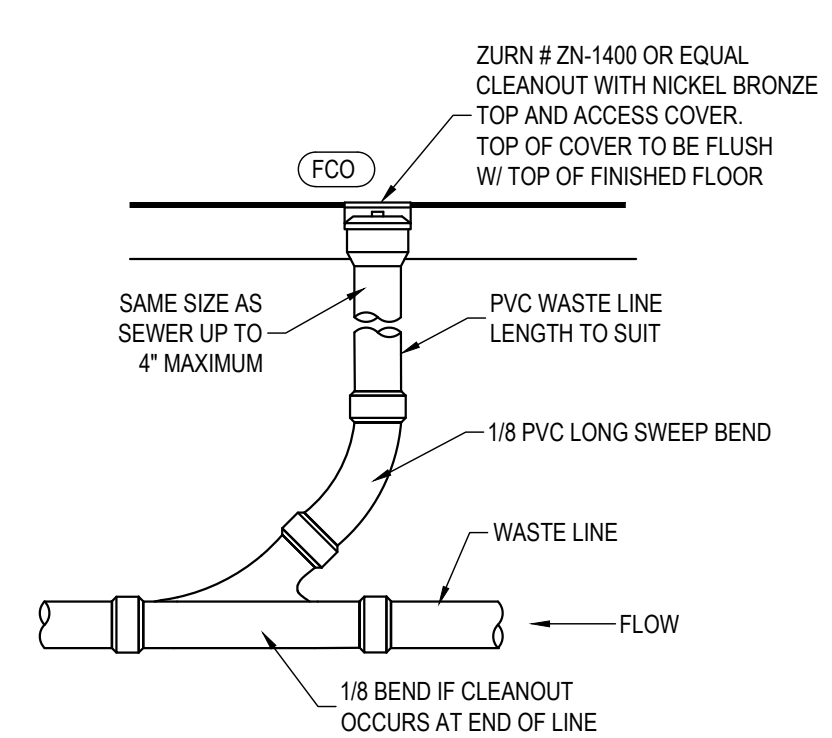
F GAS WATER HEATER DIRECT VENT INSTALLATION
SCALE: N.T.S.

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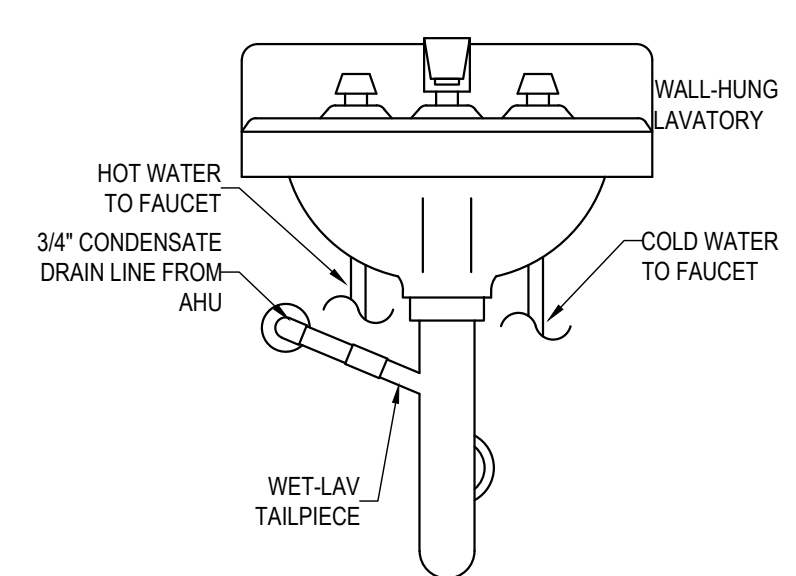
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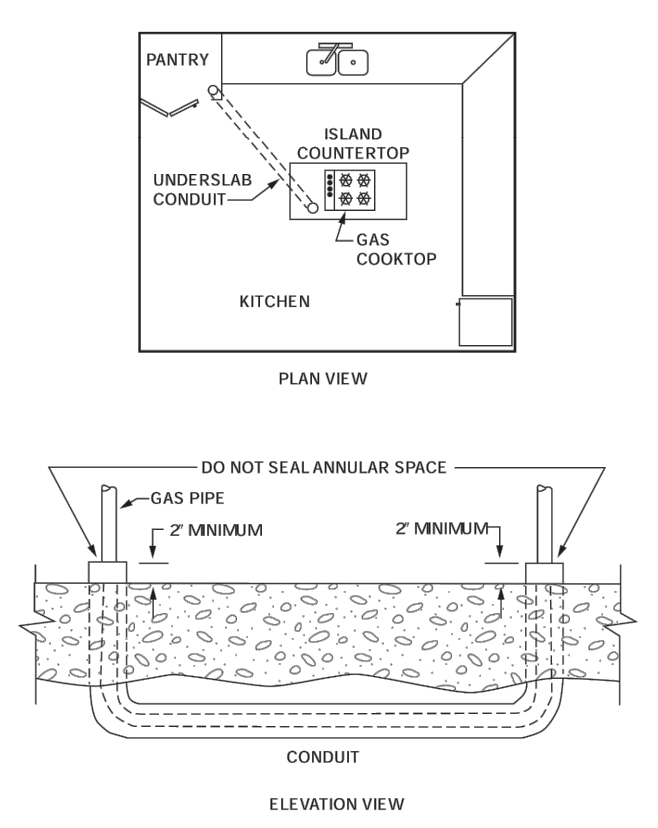
A VENT FLASHING (VTR) DETAIL
SCALE: N.T.S.



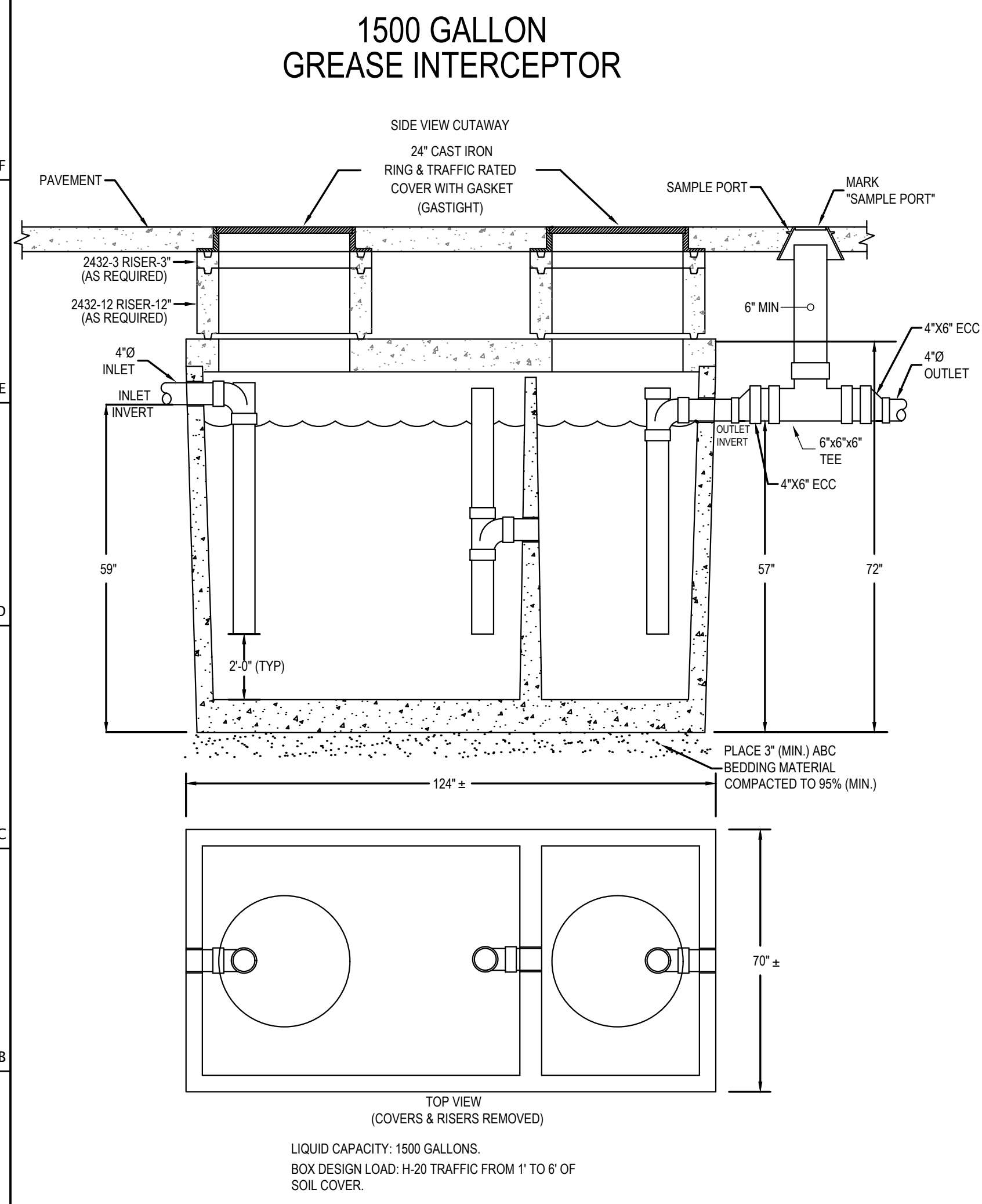
B INTERIOR FLOOR CLEANOUT DETAIL
SCALE: N.T.S.



E WET-LAV TAILPIECE DETAIL
SCALE: N.T.S.




G NATURAL GAS CONDUIT DETAIL
SCALE: N.T.S.



D GREASE INTERCEPTOR DETAIL
SCALE: N.T.S.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
	PLUMBING FIXTURE SCHEDULE														
	SYMBOL	FIXTURE	ROUGH-IN					GPM/GPF	BASIS OF DESIGN	ACCEPTABLE MANUFACTURERS	REMARKS				
			HW	CW	WASTE	TRAP	VENT								
L	EDF	ELECTRIC DRINKING FOUNTAIN	N/A	1/2"	2"	1-1/4"	1-1/2"	N/A	ELKAY LZSTL8WSLK	ELKAY, HALSEY TAYLOR	BI LEVEL ELECTRIC REFRIGERATED WALL MOUNTED WATER COOLER WITH WATER FILTER AND BOTTLE FILLING STATION. VANDAL RESISTANT BUBBLER WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. 8.0 GPH CAPACITY OF 50°F AT 90°F AMBIENT AND 80°F INLET WATER. UNIT SHALL MEET ADA GUIDELINES, AND BE LEAD-FREE CERTIFIED TO NSF/ANSI 61 AND 372 AND MEET ALL FEDERAL AND STATE LOW LEAD REQUIREMENTS. UNIT SHALL BE CERTIFIED UL 399 AND CAN/CSA 22.2 NO. 120. ELECTRIC REQUIREMENTS 115V/60HZ/370W. FURNISH WITH PLUG-IN 3 WIRE GROUNDING TYPE SERVICE CORD AND MANUFACTURER'S IN-WALL CARRIER. COORDINATE BACKSPLASH REQUIREMENTS WITH ARCHITECT.				
	UB	UTILITY BOX	N/A	1/2"	N/A	N/A	N/A	0.35	SIOUX CHIEF 696-G1010M	OATEY, SIOUX CHIEF, IPS CORPORATION	ICE MAKER OUTLET BOX WITH E-Z TURN BALL VALVE, MOLDED BOX WITH ADJUSTABLE FACE PLATE, AND LEAD FREE MIP VALVE WITH INTEGRAL SHOCK ARRESTOR				
	RHB	RECESSED HOSE BIBB	N/A	3/4"	N/A	N/A	N/A		WOODFORD B24	WOODFORD, WATTS, ZURN, JR SMITH	RECESSED WALL HYDRANT WITH APPROVED ANTI-SIPHON VACUUM BREAKER, CHROME FINISH ON BRASS CASTING, LOOSE TEE KEY FURNISHED TO EACH HYDRANT, INSTALL AT 32" ABOVE FINISHED FLOOR ON EXTERIOR OF BUILDING				
	HB	ROOF HOSE BIBB	N/A	1"	N/A	N/A	N/A		WOODFORD RHY1-1-MS	WOODFORD, WATTS, ZURN, JR SMITH	FREEZELESS ROOF HYDRANT WITH HYDRANT SUPPORT AND UNDER DECK MOUNTING SUPPORT, 3/4" BRASS HOSE NOZZLE, 1" N.P.T MALE INLET CONNECTION AND 1/8" NPT DRAIN HOLE CONNECTION. PROVIDE 1/8" DRAIN TO NEAREST FLOOR SINK OR MOP SINK.				
K	MS-1	MOP SINK	1/2"	1/2"	3"	3"	2"	2.0	STERN-WILLIAMS HL-1800	STERN-WILLIAMS, FIAT, MUSTEE	24"X24"X12" MOP SERVICE SINK WITH STAINLESS STEEL CAP ON THRESHOLD AND STEEL DOME STRAINER AND LINT BASKET, P-TRAP AND SPLASH SURROUND. PROVIDE 3 STATION MOP HANGER RACK, 5 FOOT VINYL HOSE, BUMPER GUARD, SEALANT AND 3" WASTE ROUGH-IN.				
									ZURN Z841M1-WHK	ZURN, CHICAGO FAUCET, AMERICAN STANDARD	PROVIDE WITH SERVICE SINK FAUCET WITH CAST BRASS VACUUM BREAKER SPOUT, WALL HOOK, 3/4" HOSE THREAD ON OUTLET, VANDAL RESISTANT COLOR-CODED BRASS LEVER HANDLES, ADJUSTABLE INLETS WITH INTEGRAL STOPS AND 1/2" NPT FEMALE INLETS WITH 5-3/8" SWING GOOSENECK SPOUT, 1.0 MAXIMUM GPM SPRAYHEAD / AERATOR. POLISHED CHROME-PLATE CAST BRASS FAUCET WITH ADA COMPLIANT, VANDAL RESISTANT COLOR-CODED BRASS WRIST BLADE HANDLES				
	MS-2	MOP SINK ITEM 333 IN KITCHEN CONSULTANT SCHEDULE	1/2"	1/2"	3"	3"	2"	2.0	ACORN 1636-KMH	ACORN	36"X24"X10" MOP SERVICE SINK. 16 GAGE TYPE 304 STAINLESS STEEL, SEAMLESS WELDED CONSTRUCTION WITH SATIN FINISH WITH INTEGRAL DRAIN W/ REMOVABLE FLAT GRID STRAINER AND GASKET CONNECTION TO 3" IPS PIPE. PROVIDE P-TRAP AND MANUFACTURER'S 3 STATION MOP HANGER BRACKET, 5 FOOT VINYL HOSE, SEALANT AND 3" WASTE ROUGH-IN. COORDINATE WITH KITCHEN CONSULTANT DRAWINGS.				
									SEE ITEM 332 IN THE KITCHEN CONSULTANT DRAWINGS						
	S-1	SINK	3/4"	3/4"	1-1/4"	1-1/4"	1-1/4"	2.0	JUST MFG DL-1625-A-GR	JUST, ELKAY	TWO COMPARTMENT SINK. STAINLESS STEEL, 18 GAUGE, TYPE 304, 43"X22", 7-5/8" DEEP , (3) HOLES ON 4" CENTERS. PROVIDE GRID STRAINER, TAIL PIECE, P-TRAP, FLEX CONNECTIONS AND ANGLE STOP VALVES COMPRESSION FITTING WITH TRIM,PROVIDE TRAP AND SUPPLY COVER/INSULATION FOR ALL EXPOSED PIPING. PRIOR TO PURCHASE OF FIXTURE VERIFY ALL CASE WORK WITH ARCHITECT, INTERIOR DESIGNER AND GENERAL CONTRACTOR.				
J									ZURN Z831C4-XL	ZURN, CHICAGO FAUCET, AMERICAN STANDARD	PROVIDE FAUCET WITH 5-3/8" SWING GOOSENECK SPOUT, 2.2 MAXIMUM GPM SPRAYHEAD / AERATOR. POLISHED CHROME-PLATE CAST BRASS FAUCET WITH ADA COMPLIANT, VANDAL RESISTANT COLOR-CODED BRASS WRIST BLADE HANDLES				
	HS	HAND SINK	1/2"	1/2"	2"	1-1/4"	1-1/4"	0.35-0.5	JOHN BOOS PBHS-W-0909-P-SSLR-X	JOHN BOOS	WALL MOUNTED STAINLESS STEEL HAND SINK WITH LEFT AND RIGHT SIDE SPLASH. 12"X14-1/2"X12-1/4" OVERAL SIZE WITH A 9"X9"X5" BOWL, SPLASH MOUNT FOUCET HOLES WITH 4" CENTERS, 2" DRAIN OPENING WITH BASKET DRAIN PROVIDE WITH MANUFACTURER'S MOUNTING BRACKET AND FAUCET (PBF-4-SLF). PROVIDE TAIL PIECE, P-TRAP, FLEX CONNECTIONS AND ANGLE STOP VALVES COMPRESSION FITTING WITH TRIM,PROVIDE TRAP AND SUPPLY COVER/INSULATION.				
	2CS	TWO COMPARTMENT SINK	1/2"	1/2"	1-1/2" (INDIRECT)				JOHN BOOS 2B184-2D18-X	JOHN BOOS	TWO COMPARTMENT SINK. ALL STAINLESS STEEL CONSTRUCTION WITH STAINLESS STEEL LEGS WITH ADJUSTABLE BULLET FEET. 75-1/2"X23-1/2"X44-1/16" OVERALL SIZE WITH 18"X18"X14" COMPARTMENTS AND 18" LEFT AND RIGHT DRAINBOARDS. WITH SPLASH MOUNTED FAUCET WITH 8" CENTERS.				
									T & S B-3950	T & S	TWIST WASTE VALVE, 3-1/2" SINK OPENING, 2" DRAIN OUTLET WITH 1-1/2" ADAPTER.				
H									T & S B-0133-01	T & S	PRE-RINSE FAUCET W/ ADD ON FAUCET. 8" WALL MOUNT WITH 14" SWING NOZZLE 18" RISER, OVERHEAD SPRING, LEVER HANDLES, 56" FLEX HOSE, SPRAY VALVE (B-0107), WITH 9" WALL SUPPORT.				
	BV	BALANCING VALVE	MATCH PIPE SIZE		N/A	N/A	N/A	N/A	B&G RF=1/2S LF	B&G, ZURN, WATTS,	MANUAL BALANCING VALVE, NSF 61 CERTIFIED, FOR POTABLE HOT WATER SYTEMS. VALVES TO BE SET BY TAB CONTRACTOR AT GPM SHOWN. VALVE TO HAVE CALIBRATED NAMEPLATE AND MEMORY STOP INDICATOR AND 1/4" NPT TAPPED AND PLUGGED DRAIN PORT.				
	ET	THERMAL EXPANSION TANK	N/A	3/4"	N/A	N/A	N/A	N/A	ZURN XT-18	ZURN, WATTS, AMTROL	PRE-PRESSURIZED WATER THERMAL EXPANSION TANK. 4.8 GALLONS VOLUME AND 3/4" MNPT CONNECTION. PROVIDE WITH SEISMIC BRACING AND MOUNTING BRACKET PER CURRENT BUILDING CODE.				
	LAV-1	LAVATORY	1/2"	1/2"	2"	1-1/4"	1-1/4"	0.35-0.5	AMERICAN STD. 0618.000.020	AMERICAN STANDARD	FIXTURE: UNDER COUNTER MOUNTED BATHROOM SINK, WHITE VITREOUS CHINA (CONFIRM COLOR WITH ARCHITECT) WITH OVERFLOW AND MANUFACTURER'S MOUNTING KIT. PROVIDE WITH 5" WHEELCHAIR OFFSET P-TRAP, FLEX CONNECTIONS, ANGLE STOP VALVES COMPRESSION FITTING WITH TRIM. LAV TRAP AND SUPPLY COVER/INSULATION FOR ALL EXPOSED PIPING. PRIOR TO PURCHASE OF FIXTURE, VERIFY ALL CASE WORK WITH ARCHITECT, INTERIOR DESIGNER AND GENERAL CONTRACTOR.				
									SLOAN EAF-200	ZURN, CHICAGO FAUCET, AMERICAN STANDARD	FAUCET: SENSOR OPERATED FAUCET WITH MANUFACTURER'S PLUG ADAPTER MODEL EAF-11. ADA COMPLIANT LAVATORY FAUCET, 0.5 GPM FAUCET MUST MEET ADA AND LEAD FREE REQUIREMENTS. PROVIDE WITH ASME 1070 RATED THERMOSTATIC MIXING VALVE (TMV), SEE SCHEDULE BELOW. COORDINATE INSTALLATION WITH ELECTRICAL AND GENERAL CONTRACTORS.				
G	LAV-2	LAVATORY	1/2"	1/2"	2"	1-1/4"	1-1/4"	0.35-0.5	AMERICAN STD. 9024.001EC	AMERICAN STANDARD	FIXTURE: WALL HUNG BATHROOM SINK, WHITE VITREOUS CHINA WITH OVERFLOW AND MANUFACTURER'S WALL HANGER AND SINGLE CENTER HOLE. PROVIDE WITH 5" WHEELCHAIR OFFSET P-TRAP, FLEX CONNECTIONS, ANGLE STOP VALVES COMPRESSION FITTING WITH TRIM. LAV TRAP AND SUPPLY COVER/INSULATION FOR ALL EXPOSED PIPING.				
									SLOAN EAF-225	ZURN, CHICAGO FAUCET, AMERICAN STANDARD	FAUCET: SENSOR OPERATED FAUCET WITH MANUFACTURER'S PLUG ADAPTER MODEL EAF-11. ADA COMPLIANT LAVATORY FAUCET, 0.5 GPM FAUCET MUST MEET ADA AND LEAD FREE REQUIREMENTS. PROVIDE WITH ASME 1070 RATED THERMOSTATIC MIXING VALVE (TMV), SEE SCHEDULE BELOW. COORDINATE INSTALLATION WITH ELECTRICAL AND GENERAL CONTRACTORS.				
	TMV	THERMOSTATIC MIXING VALVE	SEE REMARKS		N/A	N/A	N/A	N/A	POWERS LFG480-00	ZURN, WATTS	PROVIDE ASSE 1070 RATED TMV, SIZED TO SERVE SINGLE LAVATORY AS SHOWN ON PLANS, MINIMUM FLOW OF 0.25 GPM SET OUTLET TEMPERATURE TO 105° F TO 110° F. PROVIDE TMV WITH WALL ACCESS PANEL				
	WC-1	ADA WATER CLOSET	N/A	1"	3"	INT.	2"	1.0 -1.28	KOHLER K-96057-B	KOHLER, AMERICAN STANDARD, SLOAN, PROFLO	FLOOR MOUNTED 12" ROUGH IN, VITREOUS CHINA, ELONGATED BOWL, ADA HEIGHT. 2-1/4" FULLY GLAZED TRAPWAY, 1-1/2" TOP SPUD. MEETS ASME A112.19.2 STANDARD.				
F									SLOAN ROYAL 111-1.28	ZURN, SLOAN, KOHLER AMERICAN STANDARD	ADA COMPLIANT METAL OSCILLATING NON-HOLD-OPEN HANDLE, EXPOSED INSTALLATION ON TOP SPUD FIXTURE CONNECTION, 1" SUPPLY PIPE. WITH VACUUM BREAKER, SCREWDRIVER BAK-CHEK ANGLE STOP WITH VANDAL RESISTANT STOP CAP. VALVE SHALL BE IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF ASSE 1037 AND ANSI/ASME 112.19.2.				
									MAINLINE ML1055SSC	MAINLINE, CHURCH	OPEN FRONT ELONGATED SEAT, HEAVY DUTY COMMERCIAL SOLID PLASTIC WITH SELF SUSTAINING HINGES				
	WC-2	WATER CLOSET	N/A	1"	3"	INT.	2"	1.0 -1.28	KOHLER K-96053	KOHLER, AMERICAN STANDARD, SLOAN, PROFLO	FLOOR MOUNTED 12" ROUGH IN, VITREOUS CHINA, ELONGATED BOWL, 15-3/16" HIGH. 2-1/4" FULLY GLAZED TRAPWAY, 1-1/2" TOP SPUD. MEETS ASME A112.19.2 STANDARD.				
									SLOAN ROYAL 111-1.28	ZURN, SLOAN, KOHLER AMERICAN STANDARD	ADA COMPLIANT METAL OSCILLATING NON-HOLD-OPEN HANDLE, EXPOSED INSTALLATION ON TOP SPUD FIXTURE CONNECTION, 1" SUPPLY PIPE. WITH VACUUM BREAKER, SCREWDRIVER BAK-CHEK ANGLE STOP WITH VANDAL RESISTANT STOP CAP. VALVE SHALL BE IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF ASSE 1037 AND ANSI/ASME 112.19.2.				
									MAINLINE ML1055SSC	MAINLINE, CHURCH	OPEN FRONT ELONGATED SEAT, HEAVY DUTY COMMERCIAL SOLID PLASTIC WITH SELF SUSTAINING HINGES				
E	UR	URINAL	N/A	N/A	2"	INT.	N/A	N/A	SLOAN WES-1000	KOHLER, AMERICAN STANDARD, SLOAN, PROFLO	WALL-HUNG WATERLESS URINAL, VITREOUS CHINA, COORDINATE INSTALLATION HEIGHT WITH ARCHITECTURAL REQUIREMENTS. 2" OUTLET SPUD, STRAINER AND (2) WALL HANGERS. MEETS ASME A112.19.2 STANDARD. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.				
	SA	SHOCK ARRESTOR	SIZE AS REQUIRED						PPP SC-	PPP, IPS, WATTS, ZURN, JR SMITH, MIFAB	MAINTENANCE FREE, BARREL FABRICATED OF "TYPE K" HARD DRAWN COPPER, 25 PSI AIR PRE-LOAD. PROVIDE IN WALL ACCESS PANEL. (SEE BELOW)				
	FD	FLOOR DRAIN	N/A	N/A	2"	2"	1-1/2"	N/A	ZURN ZN-415-P	ZURN, JR SMITH, JOSAM, MIFAB	NO HUB OUTLET WITH TYPE "B" STRAINER, SIZE AS INDICATED, WITH ADJUSTABLE COLLAR, SCREWS, P-TRAP, AND TRAP GUARD (TG), SEE TG SCHEDULED BELOW.				
	FS	FLOOR SINK	N/A	N/A	2"	2"	1-1/2"	N/A	ZURN ZN-1901-K	ZURN, JR SMITH, JOSAM, MIFAB	NO HUB OUTLET, 8" DEEP RECEPTOR WITH DOME BOTTOM STRAINER. PROVIDE WITH HALF OPEN TOP GRATE UNLESS SHOWN ON DRAWINGS, AND TRAP GUARD (TG), SEE TG SCHEDULED BELOW.				
	TG	TRAP GUARD	N/A		SIZE AS REQUIRED		N/A		PROVENT SYSTEMS PROSET	JRS SMITH, RECTORSEAL, GREEN DRAIN, SIOUX CHIEF	TRAP GUARD INSERT FITTING. BARRIER TYPE TRAP PROTECTION DEVISE. DEVISE TO REMAIN NORMALLY CLOSED WHEN NOT IN USE AND OPEN EASILY TO ALLOW FREE FLOW OF WATER INTO THE DRAIN. PROVIDE TO TRAP GUARD TO FIT THE SUPPLIED FLOOR DRAIN AND FLOOR SINKS.				
	BFP	REDUCED PRESSURE ZONE ASSEMBLY BACKFLOW PREVENTER	N/A	1/2"	N/A	N/A	N/A	N/A	WATTS LF009-QT	WATTS, ZURN, MIFAB, APOLLO	REDUCED PRESSURE ZONE ASSEMBLY BACKFLOW PREVENTER SHALL BE ASSE LISTED 1013 AND NSF 61 CERTIFIED, RATED UP TO 175 PSI WITH AN OPERATING TEMPERATURE RANGE OF 33°F-180°F. SUPPLIED WITH QUARTER-TURN BALL VALVES AND MANUFACTURER'S AIR GAP (MODEL 909AGA). AWWA COMPLAINT C510 IAPMO LISTED AND UL CLASSIFIED. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CURRENT CITY STANDARDS.				
	FCO	INTERIOR FLOOR CLEANOUT	SIZE AS REQUIRED						ZURN ZN-1400	ZURN, MIFAB, JR SMITH	ADJUSTABLE CLEANOUT, NH OUTLET, BRONZE TOP WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG. SIZE AS REQUIRED. USE ABS OR PVC PIPE AND FITTINGS				
	SCO	EXTERIOR SURFACE CLEAN OUT	SIZE AS REQUIRED						ZURN Z1474	ZURN, MIFAB, JR SMITH	CAST IRON CLEANOUT COVER WITH "CO" CAST IN COVER. SIZE AS REQUIRED. USE ABS OR PVC PIPE AND FITTINGS.				
	WCO	WALL CLEANOUT	SIZE AS REQUIRED							ZURN, MIFAB, JR SMITH	SIZE AS REQUIRED. COUNTER SUNK PVC OR ABS (MATCH PIPING MATERIAL) PLUG WITH FRAME AND STAINLESS STEEL COVER.				
	2CO	TWO-WAY CLEANOUT	SIZE AS REQUIRED							ZURN, MIFAB, JR SMITH	IRON CLEANOUT COVERS WITH "CO" CAST IN COVER. SIZE AS REQUIRED. PROVIDE WITH TWO-WAY CLEANOUT FITTING. INSTALL TO MATCH WASTE PIPE INVERT ELEVATION AND SIZE				
C	RD & OF	ROOF DRAIN	SIZE AS REQUIRED						ZURN Z164	ZURN, MIFAB, JR SMITH	SIZE AS REQUIRED. COMBINATION ROOF DRAIN AND OVERFLOW DRAIN. PROVIDE TOP SET DECK PLATE AND VERIFY INSTALLATION REQUIREMENTS WITH ROOF SUBSTRATE AND ROOF MANUFACTURER'S INSTALLATION REQUIREMENTS. 15" DIAMETER COMBINATION MAIN ROOF AND OVERFLOW DRAIN, DURA COATED CAST IRON BODY WITH TOP-SET DECK PLATE, OVERFLOW PIPE PROVIDED WITH 2" EXTERNAL WATER DAM. PROVIDE WITH LOW SILHOUETTE CAST IRON DOME. VERIFY PIPE SIZE REQUIRED. NO HUB OUTLET. SEE ARCHITECTURAL FOR DISCHARGE THRU WALL/SPLASH BLOCK.				
	DN	DOWNSPOUT NOZZLE	SIZE AS REQUIRED						ZURN Z199-DC	ZURN, MIFAB, JR SMITH, WATTS	SIZE AS REQUIRED. STAINLESS STEEL FRAME WITH FABRICATED SECURED PERFORATED STAINLESS STEEL HINGED STRAINER.				
	DTV	DRAIN TEMPERING VALVE	N/A	1/2"					THERMOMEGATECH DTV	THERMOMEGATECH OR EQUAL	DRAIN TEMPERING VALVE. RUGGED AND CLOG RESISTANT TEMPERING VALVE MUST BE ABLE TO MODULATE TO CONSERVE WATER. WITH 1/2" INLET CONNECTION AND 1" DRAIN CONNECTION, VALVE MUST BE ABLE TO LOWER THE WASTE WATER TEMPERATURE TO A MAXIMUM OF 140°F TO. PROVIDE WITH CHECK VALVE AND WATER HAMMER ARRESTOR PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.				
	NOTE:	- ALL NEW PLUMBING FIXTURES SHALL BE LOW FLOW, WATER SAVING FIXTURES. - SEE SHEET P5.2 FOR PLUMBING FIXTURE SCHEDULE CONTINUATION.													


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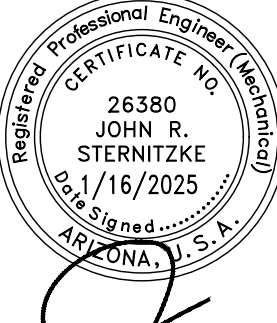


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SEAL



OWNER INFORMATION

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PROJECT

7490 S CAMINO DE OESTE
TUCSON, AZ 85757

Micro Market

5010 W CALLE TORIM
TUCSON, AZ 85757

S VAVTUE

PROJECT LOCATION

S CAMINO POTAM

S CAMINO COCOIM

CALLE TORIM

W TAROOK

W TAROOK

VICINITY

REVISION	NUMBER	DESCRIPTION	DATE
	1	COUNTY COMMENTS	10/9/2024

PROJECT NO.	23C-001
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SHEET TITLE	
DATE	02.20.2024
SHEET	P5.1

15	14	13	12	11	10	9	8	7	6	5	4	3	2	
PLUMBING FIXTURE SCHEDULE														
SYMBOL	FIXTURE	ROUGH-IN					GPM/GPF	BASIS OF DESIGN	ACCEPTABLE MANUFACTURERS	REMARKS				
		HW	CW	WASTE	TRAP	VENT								
GR	GAS REGULATOR VALVE	SIZE TO MATCH OUTLET PIPE SIZE					N/A	MAXITROL 325-3L	MAXITROL, ITRON, AMERICAN METER	NATURAL GAS PRESSURE REGULATOR, MATCH OUTLET PIPE SIZE. MAXIMUM FLOW AT 2 PSI INLET PRESSRUE 250 CFH. MAX INDIVIDUAL APPLIANCE FLOW OF 140,000 BTUH. INSTALL AT GAS LINE WITH NATURAL GAS LOADS UP TO 100 CFH @ 10" W.C.				
								MAXITROL 325-5L	MAXITROL, ITRON, AMERICAN METER	NATURAL GAS PRESSURE REGULATOR, MATCH OUTLET PIPE SIZE. MAXIMUM FLOW AT 2 PSI INLET PRESSRUE 600 CFH. MAX INDIVIDUAL APPLIANCE FLOW OF 425,000 BTUH. INSTALL AT GAS LINES WITH NATURAL GAS LOADS BETWEEN 100 CFH AND 200 CFH @ 10"W.C.				
								MAXITROL 325-7AL	MAXITROL, ITRON, AMERICAN METER	NATURAL GAS PRESSURE REGULATOR, MATCH OUTLET PIPE SIZE. MAXIMUM FLOW AT 2 PSI INLET PRESSRUE 1250 CFH. MAX INDIVIDUAL APPLIANCE FLOW OF 1,250,000 BTUH. INSTALL AT GAS LINES WITH NATURAL GAS LOADS GREATER THAN 200 CFH @ 10"W.C.				
GI	GREASE INTERCEPTOR	N/A	N/A	4"	N/A	N/A	N/A	JENSEN PRECAST 1500 GAL.	JENSEN PRECAST, BORDER PRECAST	1500 GALLON CAPACITY PRECAST TANK, TWO COMPARTMENT. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND COORDINATE WITH CIVIL AND ALL OTHER TRADES.				
SI	SOLIDS INTERCEPTOR	N/A	N/A	2"	N/A	N/A	N/A	STRIEM SIDEKICK	STRIEM, ZURN, JR SMITH, MIFAB, WATTS	SOLIDS INTERCEPTOR WITH SIDE ACCESS, TOP INLET AND HORIZONTAL OR SIDE OUTLET.				
IBR	IN BUILDING DOMESTIC WATER RISER	SIZE PER PLANS		N/A	N/A	N/A	N/A	WATTS SERIES TR2	WATTS, ZURN	TRANSITION RISER SINGLE PIECE EXTENDED 90 DEGREE FITTING OF 304 STAINLESS STEEL PIPE WITH FLANGE CONNECTION, MAX WORKING PRESSURE 200 PSI. CERTIFIED TO NSF 61, AND UL LISTED.				
WHS	WATER HEATER STAND	N/A	N/A	N/A	N/A	N/A	N/A	HOLDRIGHT 40-S-34-U	OATEY, MIFAB, JR SMITH	WATER HEATER EQUIPMENT STAND. PROVIDE SYSTEM TO SUPPORT ACTUAL WATER HEATER PROVIDED. GALVANIZED STEEL CONSTRUCTION, PROVIDE MANUFACTURER'S REQUIRED HARDWARE/SAFETY CLIP FOR INSTALLATION.				
AAV	AIR ADMITTANCE VALVE	N/A	N/A	N/A	N/A	2"	N/A	OATEY SURE-VENT	STUDOR, PROFLO, OATEY	AIR ADMITANCE VALVE SIZED AS SHOWN IN PLANS, PROVIDE WITH MANUFACTURER'S RECESS WALL BOX WITH FACEPLATE KIT.				
AP	ACCESS PANEL	N/A	N/A	N/A	N/A	N/A	N/A		MIFAB, JR SMITH, ELMDOR	UNIVERSAL ACCESS PANEL, FACE OF WALL TYPE ACCESS DOOR, STAINLESS STEEL 16 GAUGE # 304, WITH CONCEALED PIVOT PINS, CYLINDER KEY LATCH, 12"x12" MINIMUM, PROVIDE MATCHED KEYS FOR ALL PANELS				
AP-L	ACCESS PANEL - LOUVERED	N/A	N/A	N/A	N/A	N/A	N/A	WB DOORS GP LV 103	MIFAB, JR SMITH, ELMDOR	UNIVERSAL LOUVERED ACCESS PANEL, FACE OF WALL TYPE ACCESS DOOR, PAINTABLE FINISH (CONFIRM FINISH REQUIREMENTS WITH ARCHITECT), STAINLESS STEEL 16 GAUGE # 304, WITH CONCEALED PIVOT PINS, CYLINDER KEY LATCH, 14"x14" MINIMUM (SIZE AS REQUIRED FOR FULL REQUIRED ACCESS), PROVIDE MATCHED KEYS FOR ALL PANELS.				
NOTE:	- ALL NEW PLUMBING FIXTURES SHALL BE LOW FLOW, WATER SAVING FIXTURES.													
	- SEE SHEET P5.1 FOR PLUMBING FIXTURE SCHEDULE CONTINUATION.													

KITCHEN EQUIPMENT

SYMBOL	FIXTURE	ROUGH-IN						REMARKS	
		HW	CW	WASTE	INDIRECT	VENT	NG		
101	EVAPORATOR FOR FREEZER			1"	YES				COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
104	EVAPORATOR FOR COOLER			1"	YES				COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
200	3 COMP SINK 24"x24" BOWLS								COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS. PROVIDE WITH 202 AND 203.
202	TWIST WASTE VALVE			1-1/2" (3)	YES				COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
203	WALL MOUNT FAUCET	1/2" (2)	1/2" (2)						COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
204	HAND SINK W/ L&R SIDE SPLASHES	1/2"	1/2"	1-1/2"	NO	1-1/4"			COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
205	CHARBROILER, WOOD BURNING						3/4"	30	COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
206	CONVECTION OVEN, GAS		3/4" (HB)				3/4"	33	COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS. WATER FROM FILTER 207.
207	WATER FILTER FOR STEAM		3/4"						COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS. FILTER TO FEED 206 AND 208.
208	COMBI OVEN, GAS		3/4" (HB)				3/4"	75	COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS. WATER FROM FILTER 207.
209	GRIDDLE, 36"						3/4"	90	COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
210	SALAMANDER BROILER, GAS						3/4"	40	COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
212	6 BURNER HOTPLATE, 36"						3/4"	192	COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
213	FAUCET, KETTLE / POT FILLER		1/2" (2)						COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS. EACH FAUCET TO SERVE ONE 214 (2 TOTAL)
215	HAND SINK W/ L&R SIDE SPLASHES	1/2"	1/2"	1-1/2"	NO	1-1/4"			COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
216	WATER FILTER SYSTEM, TWIN		1/2"						COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS. FILTER TO FEED 218.
217	ICE BIN, 500LB			1"	YES				COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
218	ICE MAKER, CUBE-STYLE		1/2"	1"	YES				COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS. WATER FROM FILTER 216.
226	FLOOR TROUGH, 18"x72"			4"	NO	2"			COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
300	SOILED DISHTABLE, 96"			1-1/2"	YES				COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS. PROVIDE WITH 303 AND 304.
303	DISPOSER		1/2"	2"	NO	1-1/2"			COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
304	PRE-RINSE FAUCET	1/2"	1/2"						COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
305	DISHWASHER, DOOR TYPE	1/2"		1-1/2"	YES				COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
327	2 COMP SINK								COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS. PROVIDE WITH 328 AND 329.
328	TWIST WASTE VALVE			1-1/2" (2)	YES				COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
329	PRE-RINSE FAUCET W/ ADD ON FAUCET	1/2"	1/2"						COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
332	SERVICE FAUCET	1/2"	1/2"						COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS. PROVIDE WITH 333 (MS-2).
333	MOP BASIN			3"	NO	2"			SEE MS-2 IN THE PLUMBING SCHEDULE AND COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
401	EVAPORATOR FOR COOLER			1"	YES				COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
405	EVAPORATOR FOR FREEZER			1"	YES				COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
500	HAND SINK W/ L&R SIDE SPLASHES	1/2"	1/2"	1-1/2"	NO	1-1/4"			COORDINATE WITH ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS.
E	KITCHEN HOOD	1-1/2"		1-1/2"	YES				SINGLE INLET CONNECTION FOR ALL THREE HOODS, SEVEN DRAIN CONNECTIONS, INSTALL PER HOOD INSTALLATION INSTRUCTIONS, COORDINATE WITH GAS LINE IN WALL.

DEMONSTRATION KITCHEN EQUIPMENT

SYMBOL	FIXTURE	ROUGH-IN						REMARKS	
		HW	CW	WASTE	INDIRECT	VENT	NG		
DR	DOMESTIC RANGE			N/A			1/2"	56	COORDINATE WITH ARCHITECTURAL DRAWINGS.

NATURAL GAS DOMESTIC WATER HEATERS

MARK	MANUF.	MODEL	TANK CAPACITY (GAL)	NG PRESSURE (IN WC)	INPUT (MBTUH)	OUTPUT (MBTUH)	THERMAL EFFICIENCY	OUTLET TEMPERATURE (*F)	WATER INLET/OUTLET (IN)	NATURAL GAS INLET (IN)	RECOVERY RATE GPH @ 100°F	AIR INLET (IN)	VENT OUTLET (IN)	ELECTRICAL VOLTAGE (V/PH/Hz)	(AMPS)	WEIGHT (LBS)	REMARKS:
GW#	AO SMITH	BTH-250	100	4.8 - 14	250	240	96%	140	1-1/2	3/4	291	3	3	120/1/60	5	1400	1-11
REMARKS:																	
1 WATER HEATER TO COME WITH FACTORY INSTALLED ASME RATED T&P RELIEF VALVE.																	
2 WATER HEATER TO MEET SCAGMD RULE 1146.2 AND ASHRAE THERMAL EFFICIENCY & STAND BY LOSS REQUIREMENTS.																	
3 PROVIDE DIELECTRIC CONNECTIONS ON ALL WATER HEATER PIPE CONNECTION POINTS FOR PROTECTION OF WATER HEATER FROM CORROSION.																	
4 TANK TO HAVE A MAXIMUM WORKING PRESSURE OF 160 PSI.																	
5 WATER HEATER TO BE PROVIDED WITH INTEGRAL FACTORY CONTROLS.																	
6 PROVIDE WITH MANUFACTURER'S CONCENTRIC VENTING KITS AND INSTALL PER 2018 IFGC, 2018 IPC AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.																	
7 THE VENT MAXIMUM ALLOWED EQUIVALENT LENGTH IS 70' OF 4" PIPE (50' OF 3" PIPE). SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER INFORMATION.																	
8 WATER HEATER SHALL BE COMPLETELY FACTORY ASSEMBLED INCLUDING A PRESSURE REGULATOR PROPERLY ADJUSTED FOR OPERATION ON NATURAL GAS AND AUTOMATIC GAS SHUTOFF DEVICE.																	
9 PROVIDE WITH MANUFACTURER'S CONDENSATE NEUTRALIZATION KIT (KIT P/N 100112380).																	
10 INSTALL WITH CATCH PAN ON WATER HEATER STAND (SEE WHS ON THE PLUMBING FIXTURE SCHEDULE)																	
11 ACCEPTABLE MANUFACTURERS: AO SMITH, RHEEM, RUUD, BRADFORD WHITE, AMERICAN, LOCHINVAR, OR EQUAL.																	


HOT WATER RECIRCULATOR SCHEDULE

MARK	MANUF.	MODEL	DISCHARGE	PERFORMANCE		ELECTRICAL			WEIGHT (LBS)	REMARKS:
				FLOW (GPM)	HEAD (FT)	HP	VOLTAGE (V/PH/Hz)	(AMPS)		
HWC	GRUNDFOS	UP15-10B5 TLC	1/2"	1	5	0.034	115/1/60	0.22	6.5	1-4
REMARKS:										
1 UL/CSA LISTED. NSF 61 LISTED.										
2 TEST PUMP AND SAFETY SWITCH PER MANUFACTURER'S INSTALLATION INSTRUCTIONS										
3 PROVIDE PUMP WITH MANUFACTURERS THERMOSTATIC (AQUASTAT) AND TIMER CONTROLS TO TURN PUMP ON/OFF BASED ON SCHEDULE AND TEMPERATURE.										
4 ACCEPTABLE MANUFACTURERS: GRUNDFOS, BELL & GOSSETT, TACO, OR EQUAL.										

BOOSTER PUMP SCHEDULE

MARK	MANUF.	MODEL	SIZE (IN x IN)	SUCTION (PSI)	BOOST (PSI)	SET PRESSURE (PSI)	PERFORMANCE		ELECTRICAL		MOTOR SPEED (RPM)	VFD (Y / N)	WEIGHT (LBS)	REMARKS:	
							FLOW (GPM)	TOTAL DYNAMIC HEAD (FT)	HP	VOLTAGE (V/PH/Hz)					FULL LOAD (AMPS)
BP	QUANTUMFLO	38230 PRODIGY SIMPLEX QEB	1-1/2 x 1-1/2	33	42	75	75	97	3	480/3/60	6.6	3450	Y	250	1-6
REMARKS:															
1 UL/CSA LISTED AND NSF 61 CERTIFIED															
2 COORDINATE PUMP INSTALLATION WITH ELECTRICAL CONTRACTOR															
3 COORDINATE COMPLETE INSTALLATION OF SAFETY SWITCH WITH ELECTRICAL CONTRACTORS AND WITH MANUFACTURERS INSTALLATION INSTRUCTIONS															
4 TEST PUMP AND SAFETY SWITCH PER MANUFACTURER'S INSTALLATION INSTRUCTIONS															
5 PROVIDE WITH MANUFACTURER'S OPTIONS: MONITORING PROTOCOL, BACNET IP, VIBRATION ISOLATION KIT, 3" NSF 61 FLEX CONNECTORS AND COUPLINGS															
6 ACCEPTABLE MANUFACTURERS: QUANTUMFLO, GRUNDFOS, BELL & GOSSETT, TACO, OR EQUAL.															

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SHEET TITLE

PLUMBING

SCHEDULES

DATE

02.20.2024

SHEET

P5.2

WATER FIXTURE UNIT COUNT SCHEDULE						
SYMBOL	FIXTURE	COLD	HOT	TOTAL, EACH	NO. USED	F.U. TOTAL
EDF	ELECTRIC DRINKING FOUNTAIN	0.25	-	0.25	1	0.25
HB	HOSE BIBB	3.00	-	3.00	1	3.00
HB	HOSE BIBB (EACH ADDITIONAL)	1.50	-	1.50	5	7.50
UB	UTILITY BOX	0.25	-	0.25	1	0.25
S-1	SINK	3.00	3.00	4.00	1	4.00
LAV-1&2	LAVATORY (PUBLIC)	1.50	1.50	2.00	9	18.00
MS	MOP SINK	2.25	2.25	3.00	2	6.00
WC	WATER CLOSET (PUBLIC, FLUSH VALVE)	10.00	-	10.00	7	70.00
HS	HAND WASH SINK (MATCH KITCHEN CONSULTANT)	1.50	1.50	2.00	2	4.00
2CS	TWO COMPARTMENT SINK	3.00	3.00	4.00	1	4.00
-	PRODUCE DISPLAYS	0.25	-	0.25	1	0.25
KITCHEN EQUIPMENT						
203	WALL MOUNT FAUCET (FOR #200 TWO FAUCETS)	3.00	3.00	4.00	2	8.00
204	HAND SINK W/ L&R SIDE SPLASHES	1.50	1.50	2.00	1	2.00
206	CONNECTION OVEN, GAS	1.00	-	1.00	1	1.00
208	COMBI OVEN, GAS	1.00	-	1.00	1	1.00
213	FAUCET, KETTLE / POT FILLER	1.50	-	1.50	2	3.00
215	HAND SINK W/ L&R SIDE SPLASHES	1.50	1.50	2.00	1	2.00
218	ICE MAKER, CUBE-STYLE	0.50	-	0.50	1	0.50
303	DISPOSER (FOR # 300)	2.25	-	2.25	1	2.25
304	PRE-RINSE FAUCET (FOR #300)	3.00	3.00	4.00	1	4.00
305	DISHWASHER, DOOR TYPE	-	2.25	2.25	1	2.25
329	PRE-RINSE FAUCET W/ ADD ON FAUCET (FOR #327)	3.00	3.00	4.00	1	4.00
332	SERVICE FAUCET (FOR 333)	2.25	2.25	3.00	1	3.00
500	HAND SINK W/ L&R SIDE SPLASHES	1.50	1.50	2.00	1	2.00
E	KITCHEN HOOD (ONLY ON DURING UNOCCUPIED HRS)	-	4.00	4.00	1	N/A
NOTE: FIXTURE UNIT VALUES PER 2018 IPC, TABLE E103.3(2).					TOTAL =	152.25

WATER CALCULATIONS	
DESIGN DATA	
APPROXIMATE WATER PRESSURE AT BLDG RISER	34 PSI
BOOSTER PUMP PRESSURE RISE	41 PSI
TOTAL PRESSURE AFTER BOOSTER PUMP	75 PSI
WATER METER-SIZE	SEE CIVIL DRAWINGS
BACKFLOW PREVENTER DEVICE	SEE CIVIL DRAWINGS
WATER LINE PROVIDED FROM SITE TO BLDG RISER	3 INCH
BUILDING TOTAL WFU's	152.25 FU's
TOTAL GALLONS PER MINUTE	79.45 GPM
PIPE LENGTH	
HORIZONTAL PIPE LENGTH (TAP TO LAST FIXTURE)	230 FT
VERTICAL PIPE LENGTH (TAP TO LAST FIXTURE)	20 FT
TOTAL PIPE LENGTH	250 FT
FITTING ALLOWANCE (TOTAL PIPE LENGTH X 0.25)	62.50 FT
TOTAL PIPE LENGTH	313 FT
PRESSURE LOSSES	
SPECIAL FIXTURE LOSS- FILTER	15 PSI
FIXTURE HEIGHT (STATIC HEAD IN FEET)	5 FT
VERTICAL RISE PSI LOSS (VERTICAL RISE X .43)	2.15 PSI
MINIMUM PRESSURE REQUIRED AT FIXTURE (PSI/LOSSES)	25 PSI
STREET PRESSURE	
LESS TOTAL LOSSES	42.15 PSI
PSI DIFFERENCE	32.85 PSI
ALLOWABLE FRICTION FACTOR (PSI DROP PER 100')	
32.85 X 100 FT / 313	= 10.5 PSI PER 100'
WATER LINE REQUIRED	= 2-1/2 INCHES
WATER LINE PROVIDED	= 3 INCHES
ALL PIPE SIZED PER FIGURE E103.3(3) (2018 IPC)	

SITE DOMESTIC WATER PRESSURE	
DESIGN DATA	
APPROXIMATE STREET WATER PRESSURE	52 PSI
WATER METER-SIZE	SEE CIVIL DRAWINGS
BACKFLOW PREVENTER DEVICE	SEE CIVIL DRAWINGS
REQUIRED SITE WATER PIPE MINIMUM SIZE	3 INCHES
TOTAL WFU's	152.25 FU's
TOTAL GALLONS PER MINUTE	79.45 GPM
PIPE LENGTH	
HORIZONTAL PIPE LENGTH (TAP TO LAST RISER)	100 FT
VERTICAL PIPE LENGTH	2 ft
PRESSURE LOSSES	
WATER METER PSI LOSS	1.5 PSI
BACKFLOW PREVENTER DEVICE	13 PSI
	1.33 PSI
CALCULATED SITE PIPE LENGTH PSI LOSS (TO RISER)	1.5 PSI
CALCULATED SITE FITTINGS PSI LOSS	0.5 PSI
AVAILABLE PRESSURE AT LAST DOMESTIC WATER RISER	
APPROXIMATE PRESSURE AT WATER METER	52 PSI
TOTAL SITE PRESSURE DROP	17.83 PSI
TOTAL PRESSURE AT RISER WORST CASE	34.17 PSI

WASTE FIXTURE UNIT COUNT SCHEDULE				
SYMBOL	FIXTURE	F.U. EACH	NO. USED	F.U. TOTAL
EDF	ELECTRIC DRINKING FOUNTAIN	0.5	1	0.5
FD	FLOOR DRAIN (EMERGENCY)	0	5	0
FS	FLOOR SINK (2" TRAP)	3	11	33
FS	FLOOR SINK (3" TRAP)	5	7	35
S-1	SINK	2	1	2
HS	HAND SINK W/L&R SIDE SPLASHES	1	2	2
LAV-1 & 2	LAVATORY	1	9	9
MS	MOP SINK (3" TRAP)	5	2	10
UR	URINAL (WATERLESS)	0.5	2	1
WC	WATER CLOSET 1.6 GPF (PUBLIC)	4	7	28
KIT CHEN EQUIPMENT				
204	HAND SINK W/L&R SIDE SPLASHES	1	1	1
215	HAND SINK W/L&R SIDE SPLASHES	1	1	1
226	FLOOR TROUGH, 18"x72" (4" TRAP)	6	1	6
303	DISPOSER (FOR # 300)	4	1	4
333	MOP BASIN (SEE MS-2 ON PFS)	5	1	5
500	HAND SINK W/L&R SIDE SPLASHES	1	1	1
NOTE: FIXTURE UNIT VALUES PER IPC 2018, TABLE 709.1 AND			TOTAL =	138.5

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SHEET TITLE

PLUMBING SCHEDULES

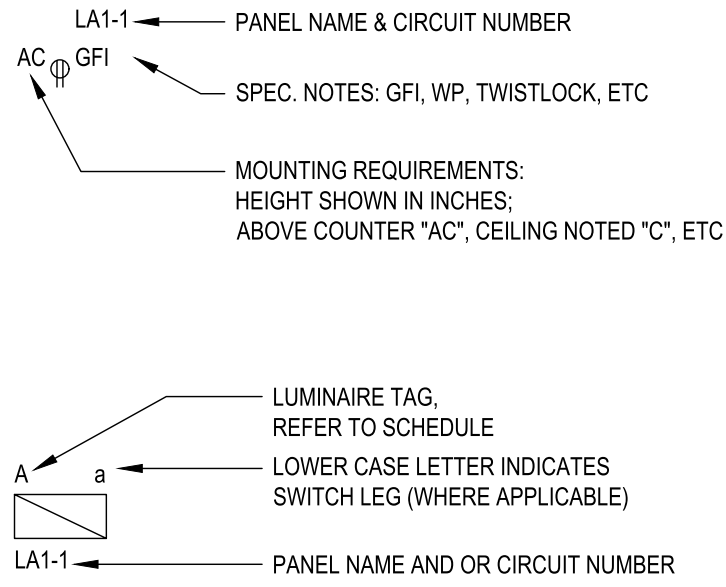
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SHEET

P5.3

DRAWING CONVENTIONS



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26 5530	IDENTIFICATION FOR ELECTRICAL SYSTEMS
26 5730	OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY
26 6000	LIGHTING
26 7260	WIRING DEVICES

ELECTRICAL SYMBOLS

LIGHTING SEE FIXTURE SCHEDULE	
	LED RECESSED OR SEMI-RECESSED LED LUMINAIRE
	SURFACE MOUNTED LED LUMINAIRE
	PENDANT MOUNTED LED LUMINAIRE
	LED STRIP LUMINAIRE
	LED WALL MOUNTED LED LUMINAIRE
	LED RECESSED DOWN LIGHT
	LED ACCENT LIGHT
	LED TRACK LIGHTING - SEE PLANS FOR LENGTH AND NUMBER OF HEADS
	LED EXIT SIGN - SHADED PORTION INDICATES FACE; PROVIDE ARROWS AS SHOWN ON DRAWINGS
	LED EMERGENCY LIGHTING BATTERY PACK - SINGLE OR DOUBLE HEAD
	POLE MOUNTED LUMINAIRE WITH POLE AND BASE - NUMBER OF LUMINAIRES AND CONFIGURATIONS INDICATED ON DRAWINGS
SWITCHES & CONTROLS	
	TOGGLE SWITCH - SINGLE POLE, 3-WAY, 4-WAY, (TP) INDICATES ILLUMINATED HANDLE OR PILOT LIGHT) AT +48" AFF U.N.O.
	2-POLE SINGLE THROW SWITCH AT +48" AFF U.N.O.
	KEYED / LOCKABLE SECURE LIGHTING SWITCH AT +48" AFF U.N.O.
	PHOTOCELL - ROOF MOUNTED FACING NORTH
	TIMESWITCH - NEMA 1, FLUSH MOUNTED, HINGED ENCLOSURE WITH LOCKABLE COVER
	DIMMER SWITCH - MOUNT AT +48" AFF. TRACK LIGHTING SHALL HAVE "LUTRON" NP2000 DIMMER OR EQUAL.
	LIGHTING MOTION SENSOR, CEILING MOUNTED.
	LIGHTING MOTION SENSOR WITH PHOTOCELL, CEILING MOUNTED.

WIRING

	CIRCUIT IN CONCEALED CONDUIT. HASH MARKS INDICATE QUANTITY OF CONDUCTORS. NO HASH MARKS INDICATE TWO CONDUCTORS PLUS GROUND(S). (NOTE: WIRE AND/OR CONDUIT SIZE SHOWN ON PANEL SCHEDULES IS THE MINIMUM SIZE FOR THE ENTIRE CIRCUIT. #12 A.W.G. CU, 1/2" C. MINIMUM). LONG STROKES(S) INDICATE NEUTRAL CONDUCTOR(S). SHORT STROKES PHASE OR SWITCHED CONDUCTORS, AND LONG STROKES WITH DOT INDICATE GREEN INSULATED GROUNDING CONDUCTOR(S). EACH ISOLATED GROUND CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND GROUND WIRE. BOND WIRES ARE NOT SHOWN ON DRAWINGS. BOND WIRES SHALL BE INSULATED CU. SIZED IN ACCORDANCE WITH NEC #250.
	CIRCUIT IN CONDUIT CONCEALED IN FLOOR
	CIRCUIT IN CONDUIT CONCEALED IN WALLS OR ABOVE CEILING
	HOMERUN TO PANELBOARD OR AS NOTED.
	APPROVED TEMPERATURE SEAL-OFF AND EXPANSION JOINTS AS REQUIRED BY NEC ART. #330-7

TELECOMMUNICATIONS

	RECESSED COMBINATION DATA/TELEPHONE OUTLET AT +18" AFF TO CENTER LINE OR AS NOTED WITH 3/4" C. AND STRING UP INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE.
	RECESSED COMBINATION DATA/TELEPHONE OUTLET FLUSH CEILING MOUNTED WITH 3/4" C. AND STRING INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE.
	RECESSED COMBINATION DATA OUTLET AT +18" AFF TO CENTER LINE OR AS NOTED WITH 3/4" C. AND STRING UP INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE.
TELE/DATA	TELEPHONE / DATA PLYWOOD BACKBOARD, 3/4" THK. FULL HEIGHT ALONG WALLS SHOWN; PAINT TO MATCH ADJACENT WALL.

LOW VOLTAGE

	SECURITY SURVEILLANCE CAMERA FLUSH J-BOX AT +120" OR AS NOTED WITH 3/4" C. WITH PULLSTRING TO BUILDING I.T. ROOM. VERIFY FINAL LOCATION WITH OWNER PRIOR TO ROUGH IN.
	CABLE TV OUTLET WALL MOUNTED AT HEIGHT NOTED WITH 3/4" C. UP INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE. VERIFY FINAL LOCATION WITH OWNER PRIOR TO ROUGH IN.
	FLUSH CEILING / WALL SPEAKER J-BOX. PROVIDE AND INSTALL J-BOX WITH 3/4"C. WITH PULLSTRING TO BUILDING TELEDATA BACKBOARD. VERIFY FINAL LOCATION WITH OWNER PRIOR TO ROUGH IN.
	ABOVE CEILING WIRELESS ACCESS POINT. PROVIDE AND INSTALL J-BOX WITH 3/4"C. WITH PULLSTRING TO BUILDING TELE/DATA BACKBOARD. VERIFY FINAL LOCATION WITH OWNER PRIOR TO ROUGH IN.
	CARD READER WALL MOUNTED AT +48" AFF TO CENTER LINE WITH 3/4" C. UP INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE. VERIFY FLUSH J-BOX SIZE WITH OWNER PRIOR TO ROUGH IN.
	INTERCOM STATION WALL MOUNTED AT +48" AFF TO CENTER LINE WITH 3/4" C. UP INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE. VERIFY FLUSH J-BOX SIZE WITH OWNER PRIOR TO ROUGH IN.
	DOOR LOCKDOWN J-BOX WITH 3/4" C. WITH PULLSTRING UP INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE. VERIFY FLUSH J-BOX SIZE AND LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH IN.
	DOOR CONTACT FOR ELECTRONIC DOOR CONTROL J-BOX. VERIFY MOUNTING REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE. PROVIDE 3/4" C. WITH PULLSTRING UP INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE.

POWER & DISTRIBUTION

	MAJOR ELECTRICAL COMPONENT OR DEVICE. VOLTAGE AND AMPERAGE AS INDICATED ON DRAWINGS.
	PANELBOARD, MOUNT AT +6'-8" TO TOP. STUD (2) 3/4" EC INTO ACCESSIBLE CEILING SPACE ON FLUSH MOUNTED PANELS.
	TRANSFORMER, KVA SIZE AND VOLTAGE AS NOTED

RECEPTACLES & BOXES

	JUNCTION BOX FOR SPECIFIED EQUIPMENT IN ACCESSIBLE LOCATION
	JUNCTION BOX IN ACCESSIBLE LOCATION ABOVE REMOVABLE CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LIGHT FIXTURE
	FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT
	RECESSED SIMPLEX RECEPTACLE AT +18" AFF TO CENTER LINE, UNO - DEDICATED OUTLET
	RECESSED DUPLEX RECEPTACLE AT +18" AFF TO CENTER LINE, UNO.
	DUPLEX RECEPTACLE PROVIDED INTEGRAL WITH LOCKER SYSTEM.
	RECESSED DUPLEX RECEPTACLE AT +18" AFF TO CENTER LINE, UNO, PROVIDE WITH "C.W. COLE" CAST ALUMINUM LOCKING RECESSED "IN-USE" WALL BOX SERIES #TL-210-WCS-1-GFCI. PROVIDE WITH "GFI" TYPE RECEPTACLE WITH ALL BOXES KEYED ALIKE.
	RECESSED RECEPTACLE (TYPE AS SHOWN ON DRAWINGS) AT +44" AFF, UNO
	RECESSED 220V OUTLET - VERIFY MOUNTING HEIGHT W/ APPLIANCE REQUIREMENTS
	RECESSED FOURPLEX CONVENIENCE OUTLET AT +18" AFF TO CENTER LINE, UNO
	GFI RECEPTACLE WITH CORD-SET SUSPENDED FROM CEILING WITH PLUG-SET AT +72" ABOVE THE FINISH FLOOR. PROVIDE JUNCTION BOX ABOVE SECURED TO STRUCTURE. PROVIDE CORD-SET AS MANUFACTURER "COXREELS" MODEL "PC13-3512-F"
	RECESSED SPECIAL USE RECEPTACLE. VERIFY NEMA NUMBER AND MOUNTING HEIGHT WITH EQUIPMENT
	RECESSED DEDICATED CIRCUIT DUPLEX CONVENIENCE RECEPTACLE AT +18" AFF TO CENTER LINE, UNO
	RECESSED DUPLEX RECEPTACLE FLUSH CEILING MOUNTED, UNO.
	COMBINATION RECEPTACLE - TELE/DATA FLUSH FLOOR BOX BY "FSR INC.", MODEL #FL-600P-BLP. PROVIDE WITH TWO (2) DUPLEX RECEPTACLES AND TWO (2) DATA RECEPTACLES WITH TWO (2) DROPS (CAT6E) FROM PROJECT I.T. RACK.
	RECEPTACLE - FLUSH FLOOR BOX BY "FSR INC.", MODEL #FL-600P-BLP. PROVIDE WITH TWO (2) DUPLEX RECEPTACLES

MOTORS & CONTROLS

	MOTOR - SIZE AND RATING AS NOTED. EF INDICATES 115 WATT, 120V, EXHAUST FAN
	FUSED DISCONNECT SWITCH - HORSEPOWER RATED, NEMA 3R WHERE OUTDOORS. FUSE AS NOTED OR PER EQUIPMENT MANUFACTURER SPECIFICATIONS.
	NON-FUSED DISCONNECT SWITCH - HORSEPOWER RATED, NEMA 3R WHERE OUTDOORS. N.F. INDICATES NON-FUSED. (FUSE PER EQUIPMENT MANUFACTURER SPECIFICATIONS).
	FUSED DISCONNECT VIA MOTOR STARTER HORSEPOWER RATED, NEMA 3R WHERE OUTDOORS. FUSE AS NOTED OR PER EQUIPMENT MANUFACTURER SPECIFICATIONS.
	A.C. MAGNETIC STARTER BY ELECTRICAL CONTRACTOR HORSEPOWER, VOLTAGE AND PHASE RATED, NUMBER OF POLES REQUIRED. FURNISH WITH (1) N.O. AUXILIARY CONTACT (120V CONTROL) SINGLE SPEED NON-REVERSING, UNO ON DRAWINGS
	MOTOR RATED SWITCH WITH THERMAL PROTECTION
	MOTOR SPEED CONTROL SWITCH. FURNISHED BY ELECTRICAL CONTRACTOR

ABBREVIATIONS

A, AMP	AMP, AMPERES	KW	KILOWATTS
AC	AIR COMPRESSOR	KVA	KILOVOLT AMPERES
AFI, AFCI	ARC FAULT CIRCUIT INTERRUPTER PROTECTED	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISH FLOOR	MCC	MOTOR CONTROL CENTER
AL	ALUMINUM	MLO	MAIN LUGS ONLY
APS	ARIZONA PUBLIC SERVICE	MSB	MAIN SWITCH BOARD
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRIC CODE
C	CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NEU	NEUTRAL
C.O.	CONDUIT ONLY WITH PULLSTRING	NIC	NOT IN CONTRACT
CP	CORD AND PLUG	NL	NIGHT LIGHT
CPAI	CONTRACTOR SHALL PROVIDE AND INSTALL	PNL	PANEL
CU	COPPER	PIV	POST INDICATOR VALVE
DSD	DUCT SMOKE DETECTOR	PVC	POLYVINYL CHLORIDE
D.W.	DISH WASHER	SES	SERVICE ENTRANCE SECTION
(E), EX, EXIST	EXISTING	TEL	TELEPHONE
EC	ELECTRICAL CONTRACTOR	TMB	TELEPHONE MOUNTING BOARD
EDF	ELECTRIC DRINKING FOUNTAIN	TTB	TELECOMMUNICATIONS TERMINAL BOARD
EL, EM	EMERGENCY LIGHT	TV	TELEVISION
FA	FIRE ALARM	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FBO	FURNISHED BY OWNER	UGPS	UNDERGROUND PULL SECTION
FC	FLUSH CEILING	UL	UNDERWRITERS LABORATORY
FSD	FIRE SMOKE DAMPER	UPS	UNINTERRUPTIBLE POWER SOURCE
GC	GENERAL CONTRACTOR	U.N.O.	UNLESS NOTED OTHERWISE
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER PROTECTED	V	VOLT(S)
GND, GRD	GROUND	VA	VOLT AMPERES
GU	GENERAL USE RECEPTACLE	WCS	WEATHER PROOF
		WP	WEATHER PROOF
		XFMR	TRANSFORMER

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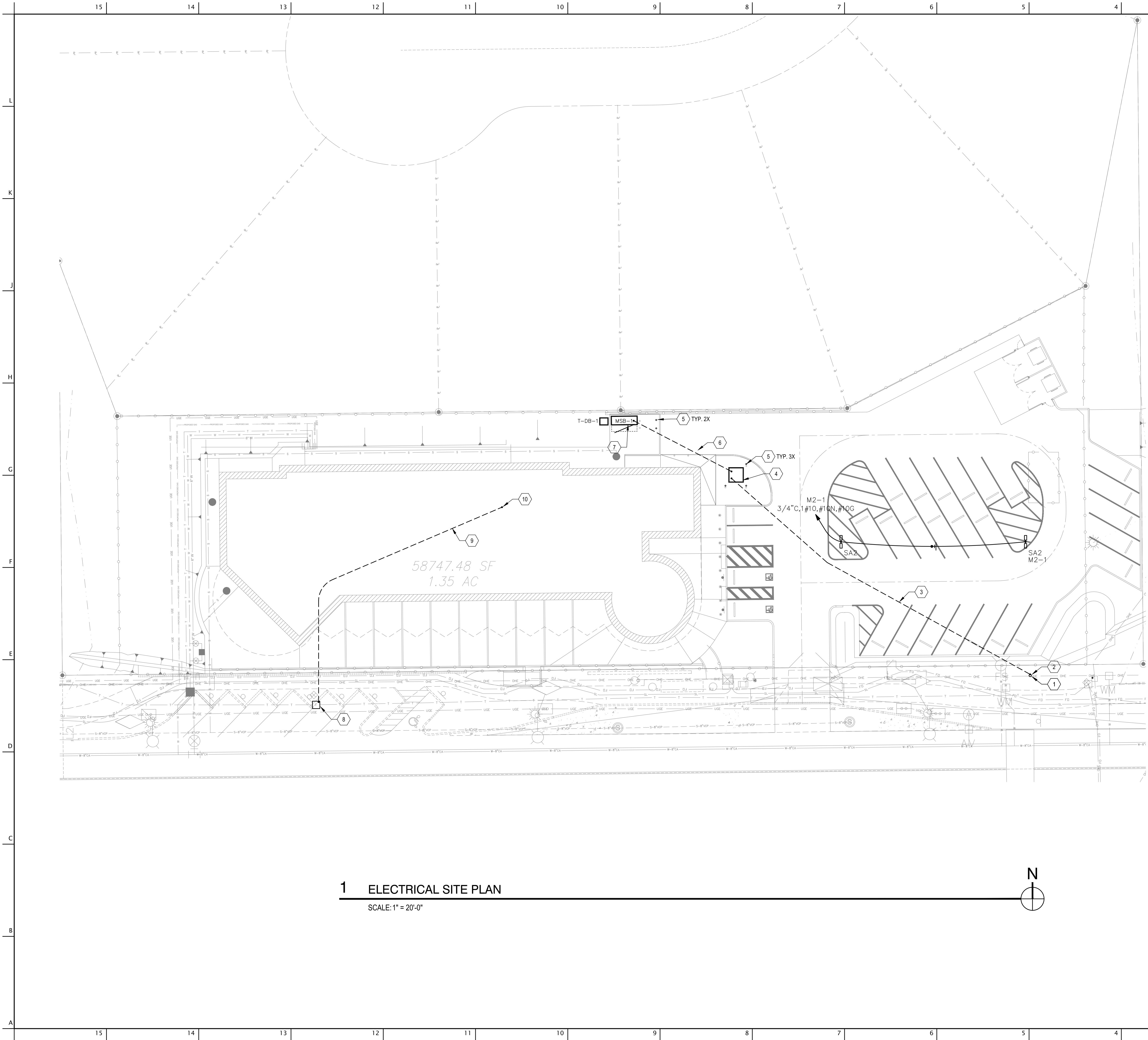
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SHEET TITLE

**GENERAL
NOTES AND
SPECIFIACATIONS**

DATE 02.20.2024

SHEET **E1.1**



KEYNOTES

- NEW ELECTRIC UTILITY SERVICE POLE. VERIFY POLE LOCATION, NUMBER AND REQUIREMENTS WITH ELECTRIC UTILITY SHOP DRAWINGS PRIOR TO ALL ROUGH IN.
- PROVIDE AND INSTALL ELECTRIC UTILITY PRIMARY RISER CONDUIT, VERIFY CONDUIT RISER QUANTITY, SIZE AND REQUIREMENTS WITH ELECTRIC UTILITY SHOP DRAWINGS PRIOR TO ALL ROUGH IN.
- PROVIDE AND INSTALL ELECTRIC UTILITY PRIMARY FEEDER CONDUIT(S) AS SHOWN, REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION. VERIFY CONDUIT QUANTITY, SIZE, ROUTING AND REQUIREMENTS WITH ELECTRIC UTILITY SHOP DRAWINGS PRIOR TO ALL ROUGH IN.
- ELECTRIC UTILITY PAD MOUNTED SERVICE TRANSFORMER. VERIFY LOCATION AND REQUIREMENTS WITH ELECTRIC UTILITY SHOP DRAWINGS PRIOR TO ALL ROUGH IN.
- PROVIDE AND INSTALL TRANSFORMER CONCRETE PAD PER ELECTRIC UTILITY SHOP DRAWINGS.
- PROVIDE AND INSTALL THREE (3) ELECTRIC UTILITY TRANSFORMER PROTECTIVE REMOVABLE BOLLARDS PER ELECTRIC UTILITY SHOP DRAWINGS.
- PROVIDE AND INSTALL ELECTRIC UTILITY SECONDARY FEEDER CONDUIT(S) AS SHOWN, REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION. VERIFY CONDUIT QUANTITY, SIZE, ROUTING AND REQUIREMENTS WITH ELECTRIC UTILITY SHOP DRAWINGS PRIOR TO ALL ROUGH IN.
- NEW SWITCHBOARD "MSB-1" WITH ELECTRIC UTILITY UNDERGROUND PULL SECTION (UGPS) WITH SECONDARY CONDUIT(S) STUBBED.
- EXISTING TELEPHONE UTILITY SERVICE PEDESTAL. FIELD VERIFY ACTUAL LOCATION PRIOR TO ALL ROUGH IN. VERIFY PEDESTAL LOCATION, NUMBER AND REQUIREMENTS WITH TELEPHONE UTILITY SHOP DRAWINGS PRIOR TO ALL ROUGH IN.
- PROVIDE AND INSTALL TELEPHONE UTILITY 2-2"C.O. WITH PULL STRING. VERIFY CONDUIT QUANTITY, SIZE, ROUTING AND REQUIREMENTS WITH TELEPHONE UTILITY SHOP DRAWINGS PRIOR TO ALL ROUGH IN.
- TELEPHONE UTILITY CONDUIT STUB LOCATION IN I.T. ROOM #111.


GENERAL NOTES

- NOT USED.

1 ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

JOB NO. 4081

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SEAL



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S/VATCUE

PROJECT LOCATION

S CAMINO POTAM

S CAMINO COCOIM

W TAROOK

W TAROOK

VICINITY

REVISION	DESCRIPTION	DATE
NUMBER 1	COUNTY COMMENTS	10/9/2024

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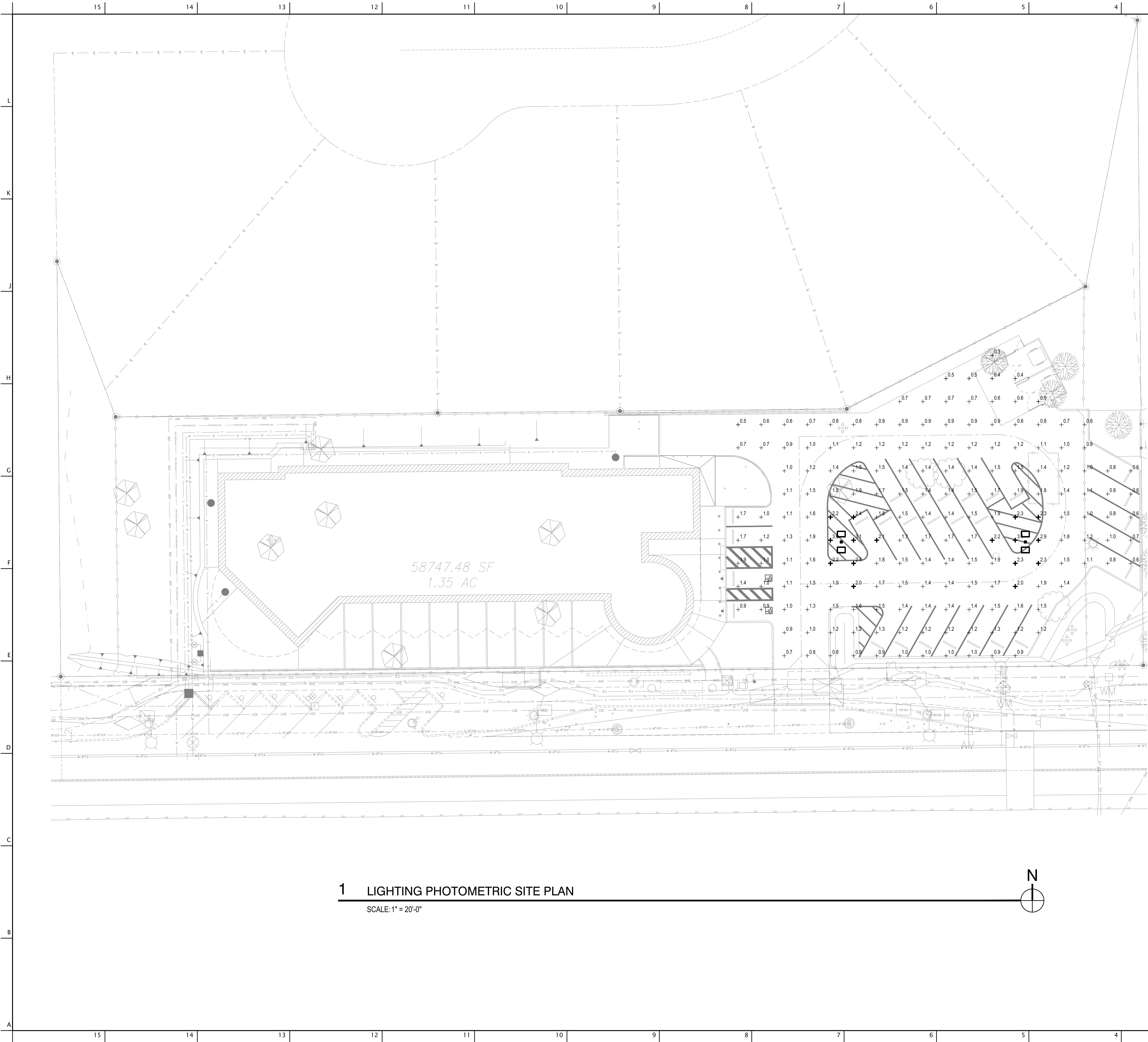
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SHEET TITLE

ELECTRICAL SITE PLAN

DATE 02.20.2024
SHEET

E1.2



KEYNOTES

1 NOT USED.

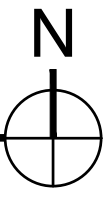
GENERAL NOTES

1. NOT USED.

PHOTOMETRIC CALCULATIONS

PARKING LOT	PARKING LOT
Average	1.3 fc
Maximum	3.1 fc
Minimum	0.3 fc
Max/Min	10.3 : 1
Avg/Min	4.3 : 1

1 LIGHTING PHOTOMETRIC SITE PLAN
SCALE: 1" = 20'-0"



JOB NO. 4081

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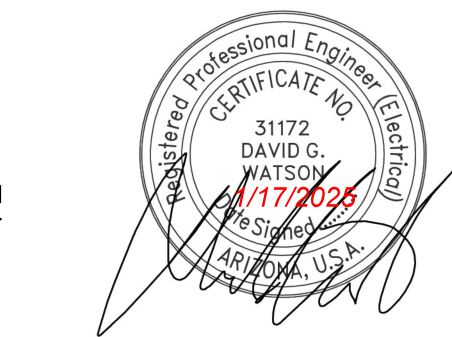
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OWNER INFORMATION

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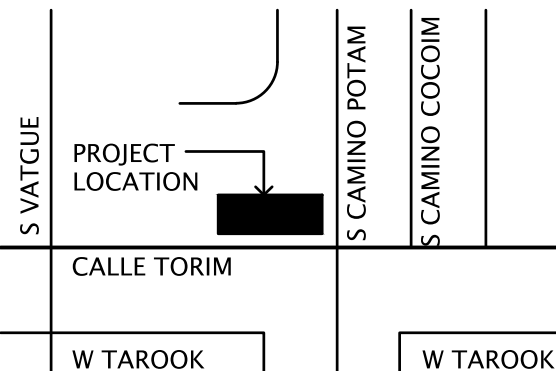
PROJECT

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S/VATCUE PROJECT LOCATION



CALLE TORIM

W TAROOK

VICINITY

REVISION	DESCRIPTION	DATE
NUMBER 1	COUNTY COMMENTS	10/9/2024

PROJECT NO. 23C-001

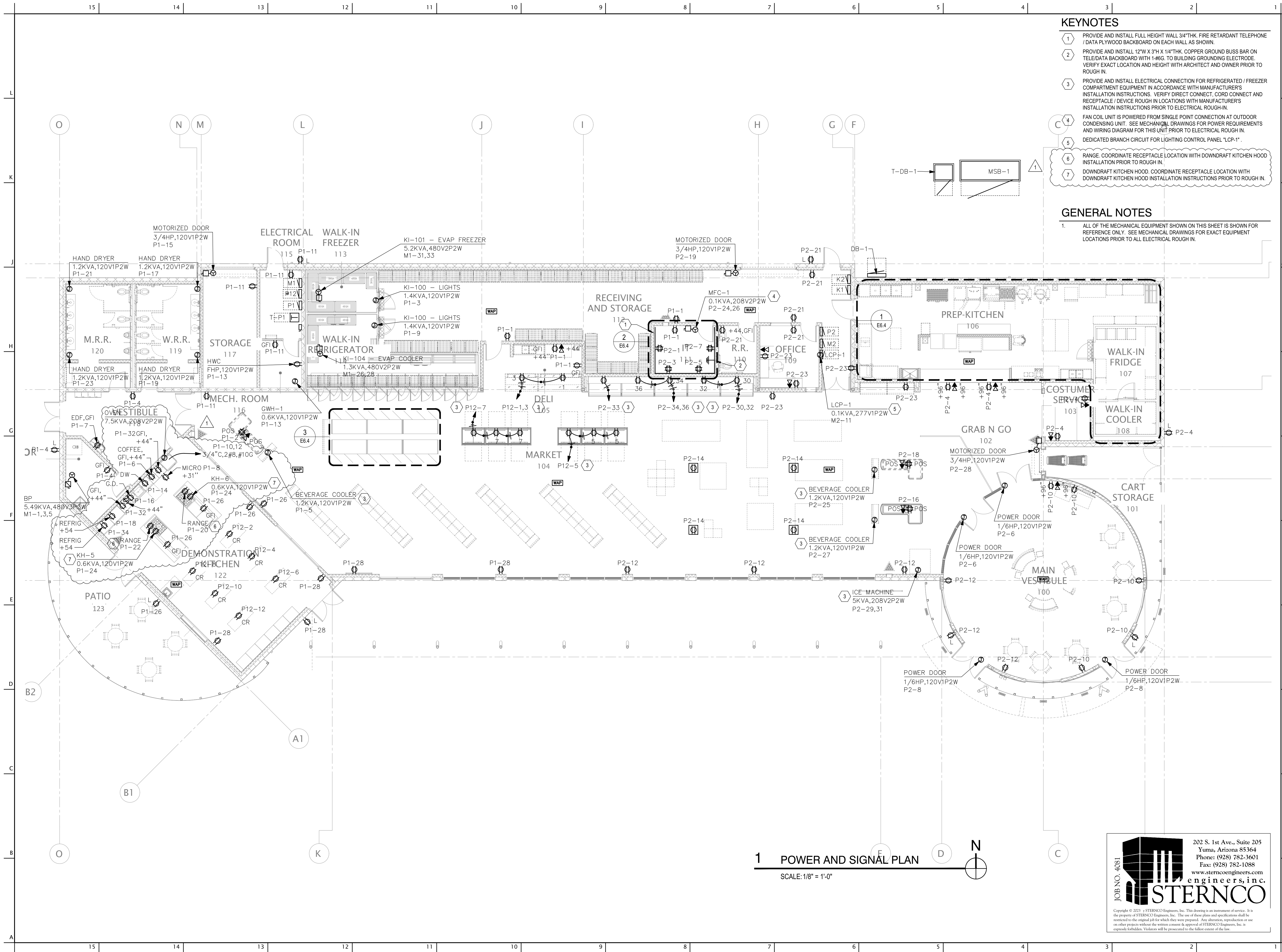
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SHEET TITLE

**LIGHTING
PHOTOMETRIC
SITE PLAN**

DATE	02.20.2024
SHEET	E1.3



KEYNOTES

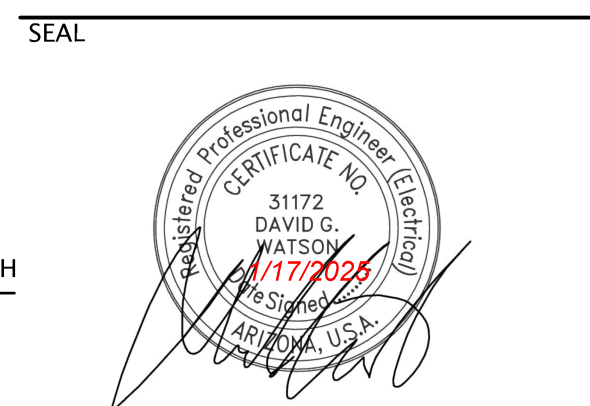
1. PROVIDE AND INSTALL FULL HEIGHT WALL 3/4"THK. FIRE RETARDANT TELEPHONE / DATA PLYWOOD BACKBOARD ON EACH WALL AS SHOWN.
2. PROVIDE AND INSTALL 12"W X 3"H X 1/4"THK. COPPER GROUND BUSS BAR ON TELEDATA BACKBOARD WITH 1#6S TO BUILDING GROUNDING ELECTRODE. VERIFY EXACT LOCATION AND HEIGHT WITH ARCHITECT AND OWNER PRIOR TO ROUGH IN.
3. PROVIDE AND INSTALL ELECTRICAL CONNECTION FOR REFRIGERATED / FREEZER COMPARTMENT EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY DIRECT CONNECT, CORD CONNECT AND RECEPTACLE / DEVICE ROUGH IN LOCATIONS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ELECTRICAL ROUGH-IN.
4. FAN COIL UNIT IS POWERED FROM SINGLE POINT CONNECTION AT OUTDOOR CONDENSING UNIT. SEE MECHANICAL DRAWINGS FOR POWER REQUIREMENTS AND WIRING DIAGRAM FOR THIS UNIT PRIOR TO ELECTRICAL ROUGH IN. DEDICATED BRANCH CIRCUIT FOR LIGHTING CONTROL PANEL "LCP-1".
5. RANGE. COORDINATE RECEPTACLE LOCATION WITH DOWNDRAFT KITCHEN HOOD INSTALLATION PRIOR TO ROUGH IN.
6. DOWNDRAFT KITCHEN HOOD. COORDINATE RECEPTACLE LOCATION WITH DOWNDRAFT KITCHEN HOOD INSTALLATION INSTRUCTIONS PRIOR TO ROUGH IN.
7. DOWNDRAFT KITCHEN HOOD. COORDINATE RECEPTACLE LOCATION WITH DOWNDRAFT KITCHEN HOOD INSTALLATION INSTRUCTIONS PRIOR TO ROUGH IN.

GENERAL NOTES

1. ALL OF THE MECHANICAL EQUIPMENT SHOWN ON THIS SHEET IS SHOWN FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS PRIOR TO ALL ELECTRICAL ROUGH IN.

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VICINITY

PROJECT LOCATION

S VAVTUE
PROJECT LOCATION
CALLE TORIM
W TAROOK

S CAMINO POTAM
S CAMINO COCONI
W TAROOK

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SHEET TITLE

POWER AND SIGNAL PLAN

DATE 02.20.2024

SHEET

E2.1

1 POWER AND SIGNAL PLAN

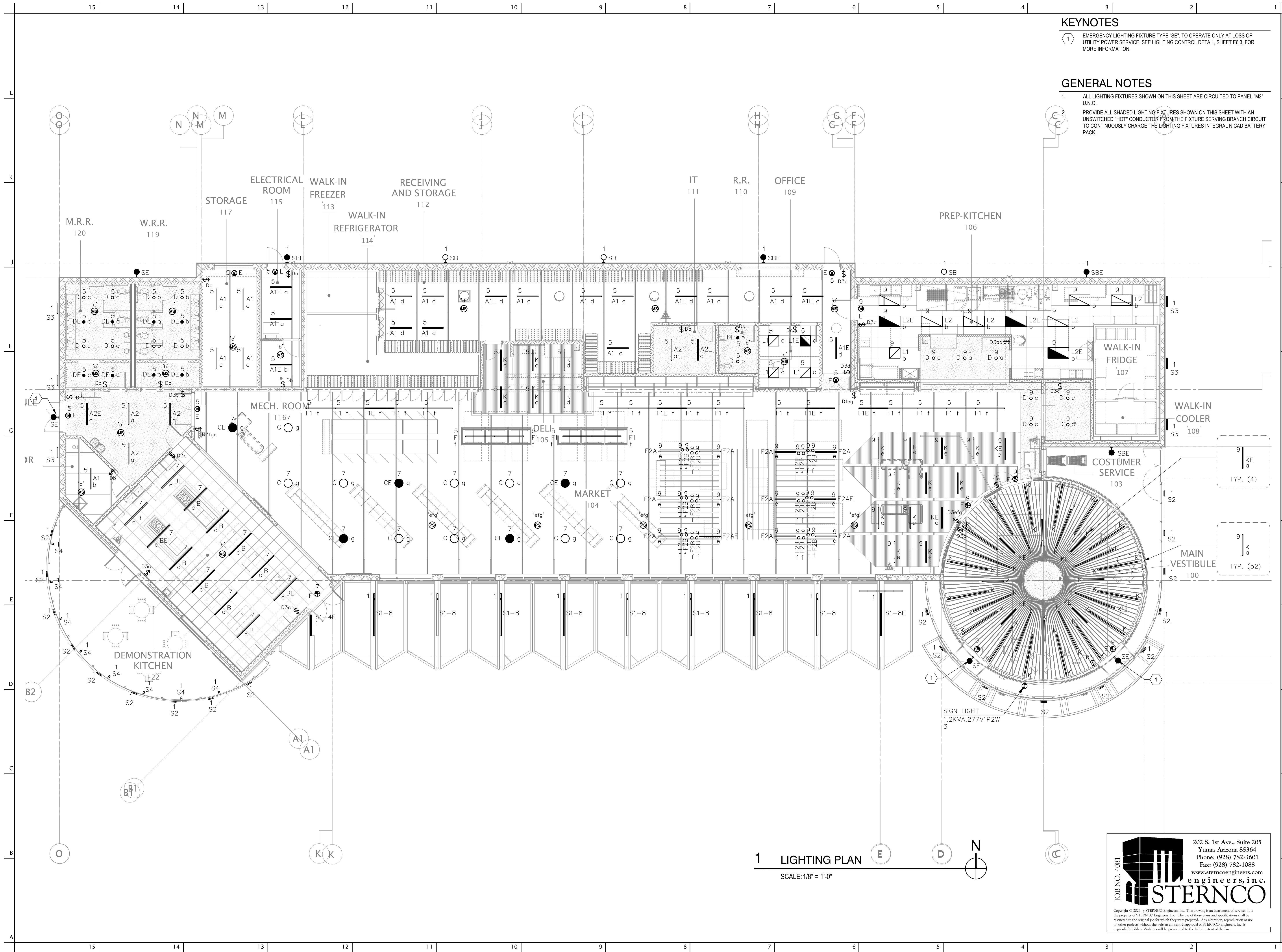
SCALE: 1/8" = 1'-0"

JOB NO. 4081

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KEYNOTES

1. EMERGENCY LIGHTING FIXTURE TYPE "SE" TO OPERATE ONLY AT LOSS OF UTILITY POWER SERVICE. SEE LIGHTING CONTROL DETAIL, SHEET E6.3, FOR MORE INFORMATION.

GENERAL NOTES

1. ALL LIGHTING FIXTURES SHOWN ON THIS SHEET ARE CIRCUITED TO PANEL "M2" U.N.O.
2. PROVIDE ALL SHADED LIGHTING FIXTURES SHOWN ON THIS SHEET WITH AN UNSWITCHED "HOT" CONDUCTOR FROM THE FIXTURE SERVING BRANCH CIRCUIT TO CONTINUOUSLY CHARGE THE LIGHTING FIXTURES INTEGRAL NICAD BATTERY PACK.

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S CAMINO POTAM
S CAMINO COCOWI
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REVISION	DESCRIPTION	DATE
NUMBER 1	COUNTY COMMENTS	10/9/2024

1 LIGHTING PLAN
SCALE: 1/8" = 1'-0"

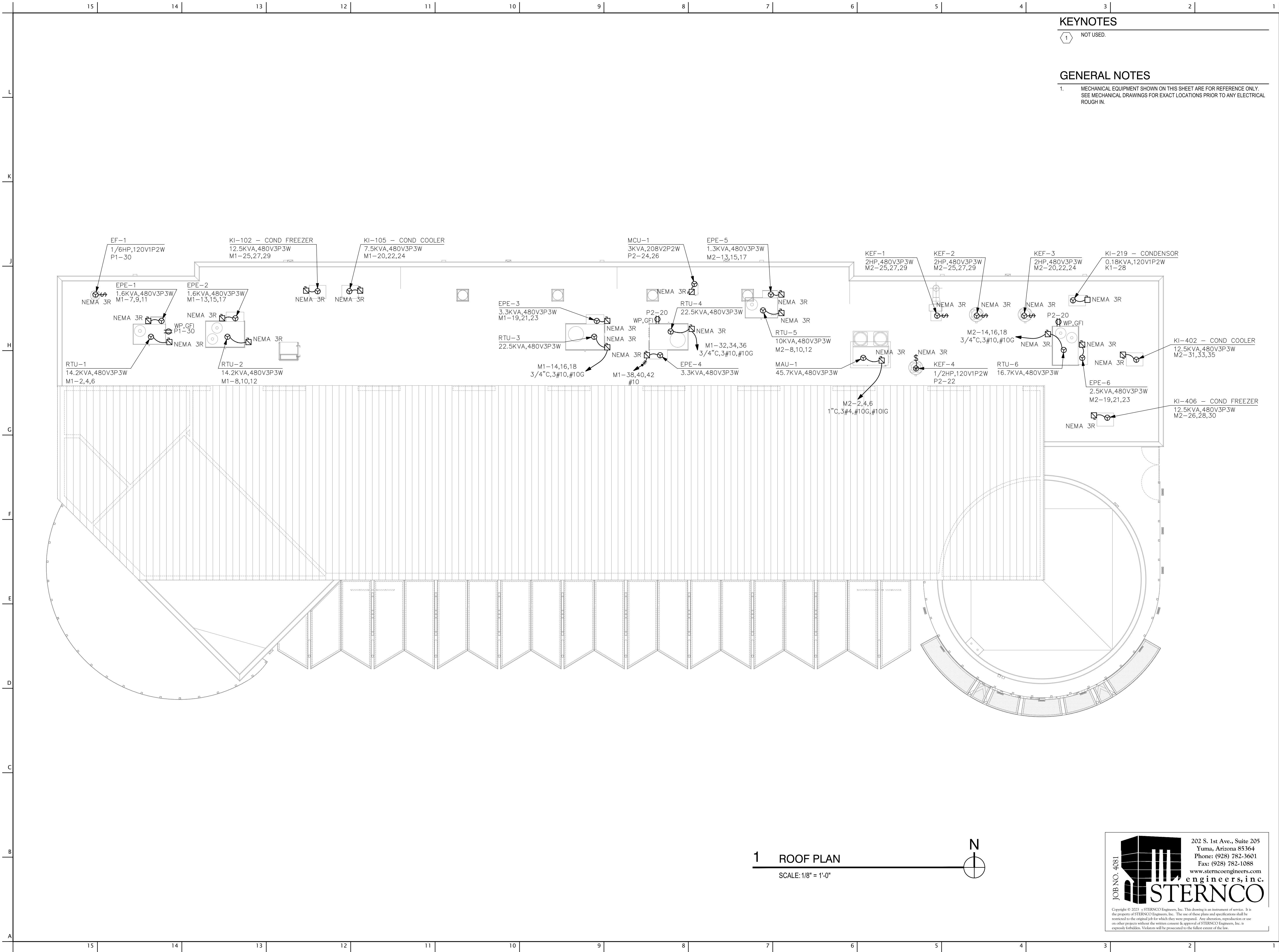
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LIGHTING PLAN
DATE 02.20.2024
SHEET **E3.1**



KEYNOTES

1 NOT USED.

GENERAL NOTES

1. MECHANICAL EQUIPMENT SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS PRIOR TO ANY ELECTRICAL ROUGH IN.

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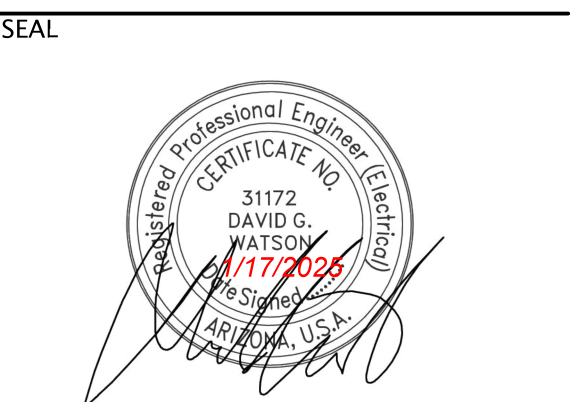
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S CAMINO COCOIM

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W TAROOK

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NUMBER 1	COUNTY COMMENTS	10/9/2024

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SHEET TITLE

ROOF PLAN

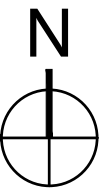
DATE 02.20.2024

SHEET

E4.1

1 ROOF PLAN

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

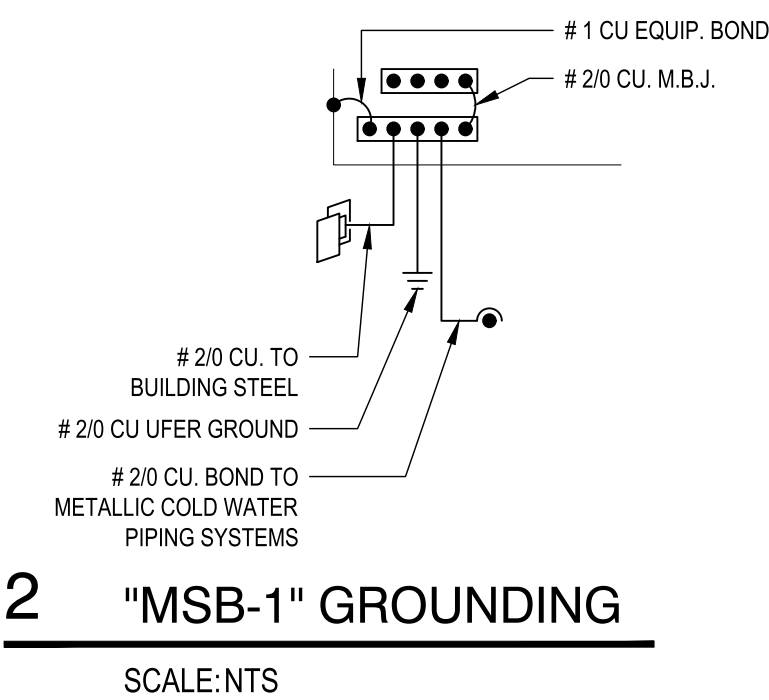
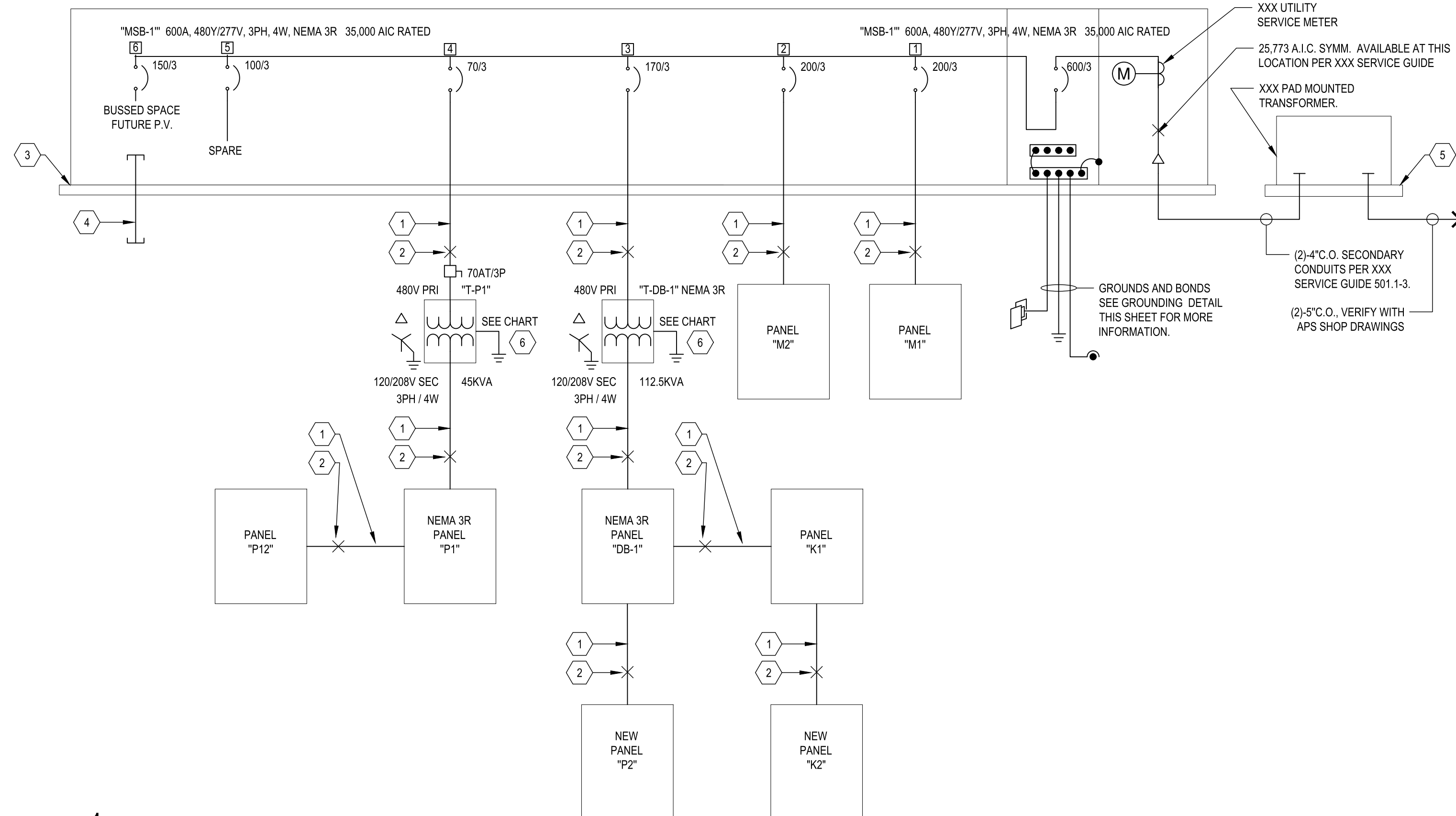
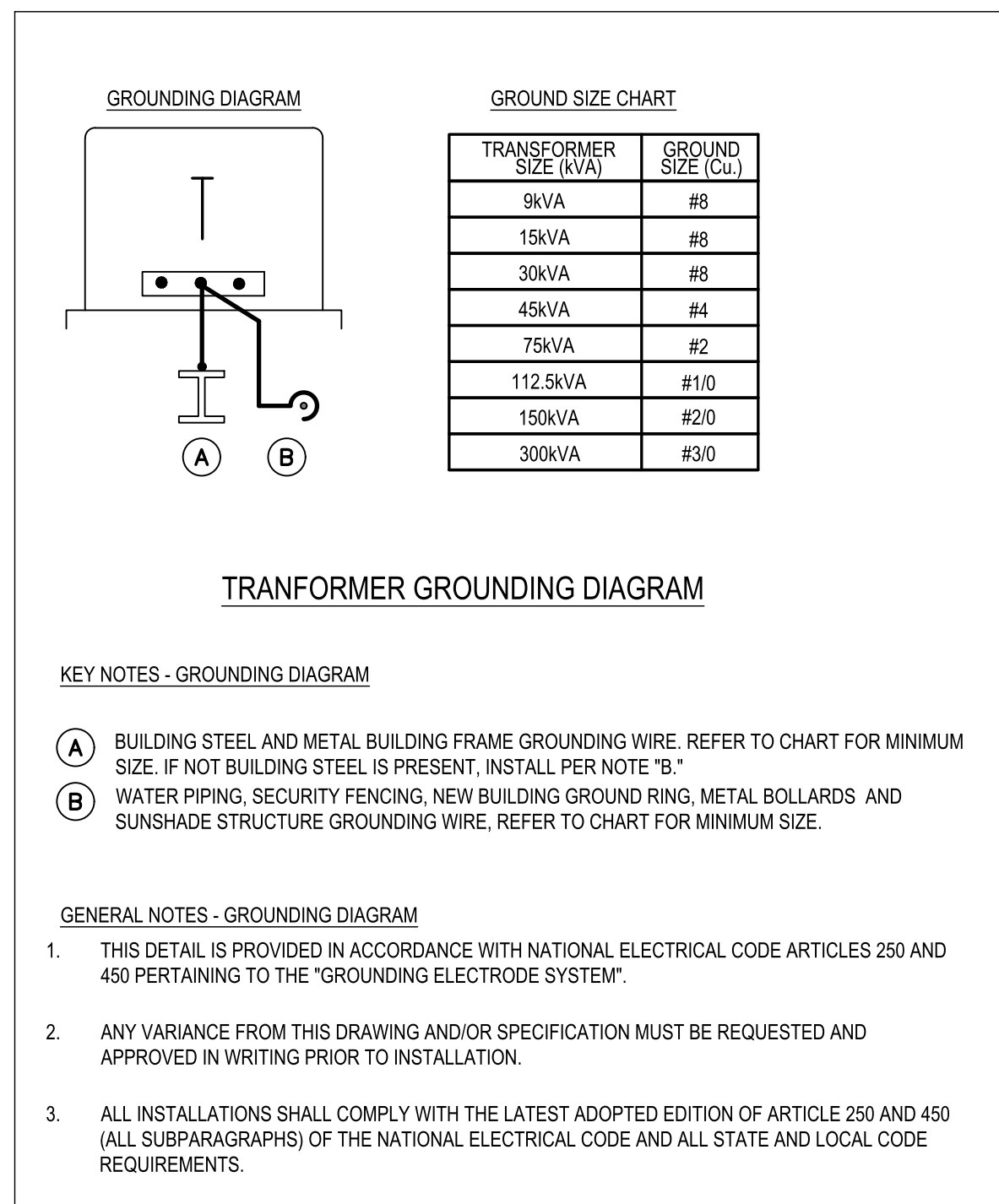


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MSB-1

ROOM EXTERIOR	VOLTS	480Y/277V	3P	4W	AIC	35,000
MOUNTING FLOOR	BUS AMPS	600			MAIN BKR	600
FED FROM UTILITY	NEUTRAL	100%			LUGS	STANDARD
NOTE NEW					ISO GND BUS	

CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS
			A	B	C	
1	200/3	PANEL M1	39.5	39.5	36.2	2"C,3#3/0,#3/ON,#6G
2	225/3	PANEL M2	42.2	42.2	41.2	2-1/2"C,3#4/0,#4/ON,#4G
3	175/3	XFMR T-DB-1	36.5	37	37.3	1-1/2"C,3#2/0,#6G
4	125/3	XFMR T-P1	22.6	24	24.5	1-1/2"C,3#1/0,#4G
5	100/3	SPARE	0	0	0	
6	150/3	B.S. FUTURE P.V.	0	0	0	-
TOTAL CONNECTED KVA BY PHASE			141	143	139	
CONN KVA			CALC KVA			
LIGHTING	12.2	15.2	(125%)	RECEPTACLES	22.9	16.5 (50%>10)
LARGEST MOTOR	45.7	11.4	(25%)	KITCHEN EQUIPMENT	101	65.8 (65%)
MOTORS	285	285	(100%)	CONTINUOUS	1.2	1.5 (125%)
				NONCONTINUOUS	0.4	0.4 (100%)
TOTAL LOAD					396	
BALANCED 3-PHASE LOAD					476	A

FAULT CURRENT SCHEDULE									
DEVICE	FAULT	AIC RATING	L-L VOLTS	FEEDER		TRANSFORMER			MOTOR FAULT
				SIZE	LENGTH	KVA	Z%	FAULT AT PRIMARY	
MSB-1	27,114	35,000	480V	(2)#350kcmil					1,341
M1	12,801	14,000	480V	#3/0	165'				699
M2	19,040	22,000	480V	#4/0	76'				922
T-DB-1	12,410	14,000	208V	#2/0	18'	112.5	2	23,102	306
DB-1	12,147	22,000	208V	(2)#3/0	5'				301
K1	11,340	22,000	208V	#3/0	11'				262
K2	11,149	22,000	208V	#1	2'				253
P2	10,220	22,000	208V	#1/0	23'				266
T-P1	8,622	14,000	208V	#1/0	172'	75	1.75	9,531	445
P1	8,521	10,000	208V	#4/0	2'-10"				444
P12	8,380	10,000	208V	#1	2'-3"				433

<i>FEEDER SCHEDULE</i>		
<i>FEEDER AMPS</i>	<i>CONDUIT AND FEEDER</i>	<i>FEEDING THESE DEVICES</i>
100	1-1/2" C, 3#1, #1N, #8G	K2, P12
125	1-1/2" C, 3#1/0, #1/0N, #6G	P2
150	1-1/2" C, 3#1/0, #4G	T-P1
175	1-1/2" C, 3#2/0, #6G	T-DB-1
200	2" C, 3#3/0, #3/0N, #6G	K1, M1
225	2-1/2" C, 3#4/0, #4/0N, #4G	M2
225	2-1/2" C, 3#4/0, #4/0N, #2G	P1
400	(2)2" C, 3#3/0, #3/0N, #2G	DB-1

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE

VOLTAGE DROP SCHEDULE					
DEVICE	FEEDER		BRANCH CIRCUIT		TOTAL VOLTAGE DROP
	VOLTAGE DROP	WIRE SIZE	MAX VOLTAGE DROP	WIRE SIZE	
M1	0.76%	#3/0	1.01% (CKT 32,34,36)	#10	1.77%
M2	0.34%	#4/0	0.79% (CKT 31,33,35)	#12	1.13%
T-DB-1	1.55%	#2/0	—	—	1.55%
DB-1	1.59%	(2)#3/0	—	—	1.59%
K1	1.71%	#3/0	2.41% (CKT 6)	#12	4.12%
K2	1.72%	#1	0.79% (CKT 8,10,12)	#8	2.52%
P2	1.83%	#1/0	2.75% (CKT 28)	#12	4.59%
T-P1	2.12%	#1/0	—	—	2.12%
P1	2.15%	#4/0	2.8% (CKT 34)	#12	4.95%
P12	2.17%	#1	3.17% (CKT 1)	#12	5.34%
			P12-1: 3.17%	#12	

- # KEYNOTES
- | | |
|---|--|
| 1 | SEE FEEDER SCHEDULE, THIS SHEET, FOR CONDUIT AND CONDUCTOR REQUIREMENTS. |
| 2 | SEE FAULT CURRENT CALCULATIONS, THIS SHEET, FOR AVAILABLE FAULT CURRENT AT THIS LOCATION. |
| 3 | PROVIDE AND INSTALL SWITCHGEAR 3" HOUSEKEEPING PAD PRIOR TO ROUGH IN PROVIDE PAD TO MATCH SWITCHGEAR FOOTPRINT +1" ON ALL SIDES. ENSURE METER HEIGHT AND CLEAR WORKING SPACE IN FRONT OF SWITCHGEAR IS IN COMPLIANCE WITH ELECTRICAL UTILITY SERVICE GUIDE REQUIREMENTS PRIOR TO ALL ROUGH IN. |
| 4 | STUB 2-2"C.O. WITH PULL ROPE FROM "MSB-1" AS SHOWN FOR FUTURE PV. ROUTE CONDUIT TO ARCHITECTURAL DESIGNATED AREA FOR FUTURE PV. VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH IN. |
| 5 | PROVIDE AND INSTALL UTILITY TRANSFORMER HOUSEKEEPING PAD PER UTILITY SHOP DRAWINGS AND UTILITY SERVICE GUIDE REQUIREMENTS. |
| 6 | PROVIDE AND INSTALL 3" TRANSFORMER HOUSEKEEPING PAD MAX. +1" LARGER THAN EQUIPMENT FOOTPRINT. |

- # GENERAL NOTES
1. ALL CONDUCTORS FOR THIS PROJECT SHALL BE COPPER.
 2. INSULATION FOR CONDUCTORS SHALL BE "THWN / THHN, 75C."
 3. THE ELECTRICAL DISTRIBUTION SYSTEM SHOWN ON THIS SHEET IS A FULLY RATED SYSTEM. SERIES RATING OR DEVICE DE-RATING WILL NOT BE ACCEPTED.
 4. EACH BRANCH CIRCUIT THAT SUPPLIES THAT SUPPLIES NON-LINEAR LOADS, TO INCLUDE COMPUTERS, COMMUNICATIONS RACKS, VFDs, ETC. SHALL HAVE A DEDICATED NEUTRAL.
 5. MULTI-WIRE BRANCH CIRCUITS FOR GENERAL LOADS CAN INCLUDE UP TO THREE PHASE CONDUCTORS WITH A SHARED NEUTRAL. IF AN IDENTIFIED HANDLE TIE IS USED TO A SIMULTANEOUSLY DISCONNECT ALL SINGLE POLE CIRCUIT BREAKERS THAT SUPPLY IDENTICAL PHASE CONDUCTORS OF THE MULTI-WIRE CIRCUIT.



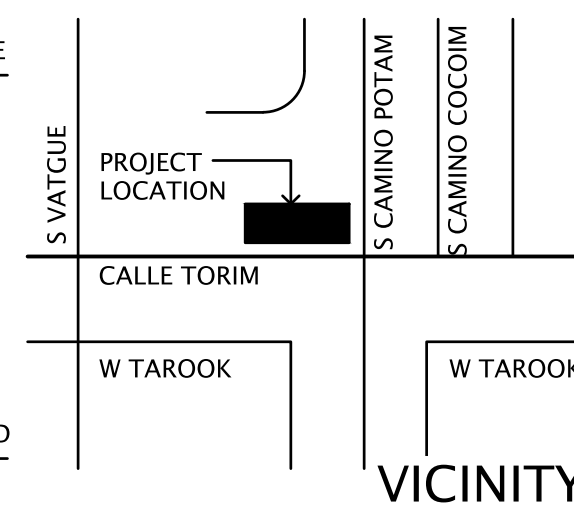
FORMATION

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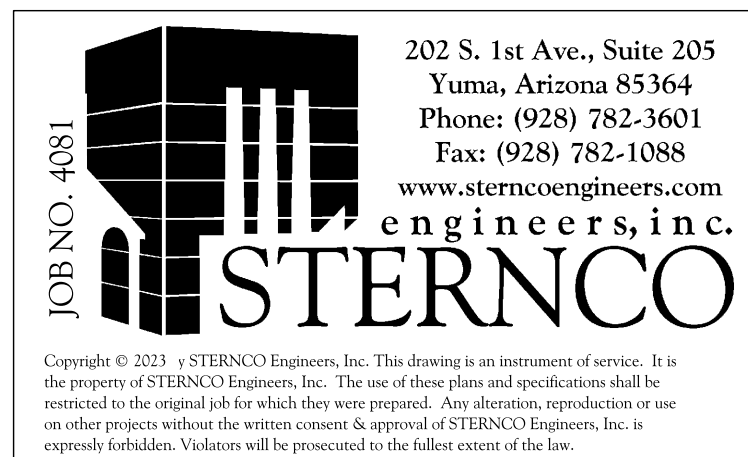
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SHEET TITLE

SINGLE LINE DIAGRAM AND CALCULATIONS

DATE	02.20.2024
SHEET	1

E5.1



<

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23C-001

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SHEET TITLE

PANEL SCHEDULES

DATE

02.20.2024

SHEET

E5.2

JOB NO. 4081

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1

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1

PROVIDE AND INSTALL A SHUNT TRIP TYPE MAIN CIRCUIT BREAKER FOR INTERFACE WITH FIRE SUPPRESSION "ANSUL" SYSTEM.

1.

NOT USED



1

PROJECT NO.
















23C-001

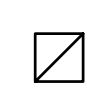
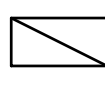



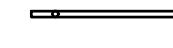




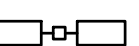



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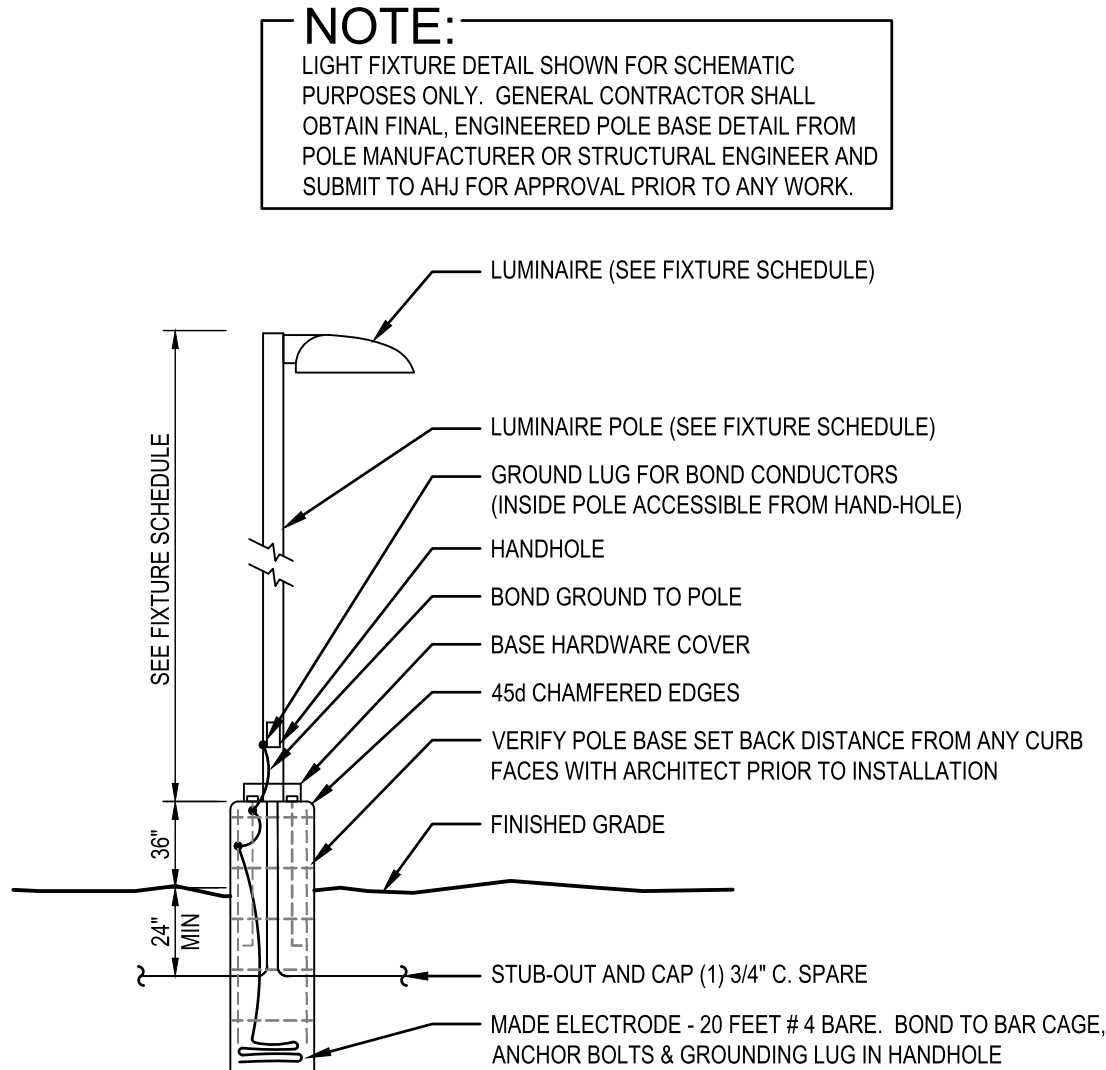


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LIGHTING FIXTURE SCHEDULE							
CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS
8' Linear EM		(1)		CEILING		64	120V 1P 2W
A1		LED / 3000K	2" WIDE X 3.25" HIGH X 4' LONG LED SUSPENDED LINEAR WITH SATIN ACRYLIC LENS, 80 CRI, INTEGRAL 0-10V 1% DIMMING DRIVER. 6.5 WATTS PER FOOT, 120-277V	PENDANT MOUNTED AT 10'-0" A.F.F.	PRUDENTIAL LIGHTING BOLT-PRO-LED3-MO-4'-SAL-YSL-UNV-CA48"-X3-DM01	26	277V 1P 2W
A1E		LED / 3000K	SAME AS TYPE "A1" EXCEPT PROVIDE WITH INTEGRAL 90-MIN NICAD BATTERY PACK RATED AT 1200 LU MIN.	PENDANT MOUNTED AT 10'-0" A.F.F.	PRUDENTIAL LIGHTING BOLT-PRO-LED3-MO-4'-SAL-YSL-UNV-CA48"-X3-DM01-EMHE	26	277V 1P 2W
A2		LED / 3000K	2" WIDE X 3.25" HIGH X 4' LONG LED SURFACE MOUNTED LINEAR WITH SATIN ACRYLIC LENS, 80 CRI, INTEGRAL 0-10V 1% DIMMING DRIVER. 6.5 WATTS PER FOOT, 120-277V	SURFACE CEILING	PRUDENTIAL LIGHTING BOLT-PRO-LED3-MO-4'-SAL-YSL-UNV-SUR-X3-DM01	26	277V 1P 2W
A2E		LED / 3000K	SAME AS TYPE "A2" EXCEPT PROVIDE WITH INTEGRAL 90-MIN NICAD BATTERY PACK RATED AT 1200 LU MIN.	SURFACE CEILING	PRUDENTIAL LIGHTING BOLT-PRO-LED3-MO-4'-SAL-YSL-UNV-SUR-X3-DM01-EMHE	26	277V 1P 2W
B		LED / 3000K	3.25" WIDE X 1.76" HIGH X 6' LONG LED RECESSED LINEAR, 90+ CRI, INTEGRAL 0-10V 1% DIMMING DRIVER. 120-277V	RECESSED	VODE LIGHTING 807-NX3-RS-6'-72- -0-IP-AE-2-0-Z-SO-309-CE-0-AL-0	39.6	277V 1P 2W
BE		LED / 3000K	SAME AS TYPE "B" EXCEPT PROVIDE AND INSTALL REMOTE 90-MINUTE NICAD BATTERY PACK WITH MINIMUM 1400 LUMEN OUTPUT. MOUNT TO ADJACENT STRUCTURE IN AN ACCESSIBLE MANNER. PROVIDE WITH RED ILLUMINATED TEST SWITCH.	RECESSED	VODE LIGHTING 807-NX3-RS-6'-72- -0-IP-AE-2-0-Z-SO-309-CE-0-AL-0	39.6	277V 1P 2W
C		LED / 3000K	19" DIAMETER X 11" HIGH LED DIRECT/INDIRECT STEM MOUNTED PENDANT WITH SEMI OPAQUE DOUBLE LAYER LENS, 80 CRI, INTEGRAL 0-10V 10% DIMMING DRIVER. VERIFY STEM LENGTH. 108 WATTS, 120-277V	PENDANT MOUNTED AT 10'-0" A.F.F.	LUMINIS HC1600-L4L90-277V-BKT-K3SPG-15FT	108	277V 1P 2W
CE		LED / 3000K	SAME AS TYPE "C" EXCEPT PROVIDE WITH INTEGRAL 90-MIN NICAD BATTERY PACK RATED AT 1200 LU MIN.	PENDANT MOUNTED AT 10'-0" A.F.F.	LUMINIS HC1600-L4L90-277V-BKT-EMLC4-K3-SPG-15FT	108	277V 1P 2W
D		LED / 3000K	6" DIAMETER LED RECESSED DOWNLIGHT WITH SEMI SPECULAR CLEAR REFLECTOR, 80+ CRI, INTEGRAL 0-10V 10% DIMMING DRIVER. 10.4 WATTS, 120-277V	RECESSED	LITHONIA LIGHTING LDN6-30/10-L06-AR-LSS-TRW-MVOLT-GZ10	10.4	277V 1P 2W
DE		LED / 3000K	SAME AS TYPE "D" EXCEPT PROVIDE WITH INTEGRAL 90-MIN NICAD BATTERY PACK RATED AT 1200 LU MIN.	RECESSED	LITHONIA LIGHTING LDN6-30/10-L06-AR-LSS-TRW-MVOLT-GZ10-E10WCP	10.4	277V 1P 2W
E		LED	EDGE - LIT EXIT SIGN WITH WHITE HOUSING AND GREEN LETTERS WITH ARROWS AND FACES PER PLANS.	SURFACE	LITHONIA LRP-W-PER PLAN-CC/GMR-PER PLAN-120/277-ELN	3	277V 1P 2W
F1		LED / 3000K	11' TRUNKING SYSTEM WITH LED LINEAR INSERTS AND WIDE BEAM OPTIC, 80+ CRI, 0-10V DIMMING. PROVIDE ALL PARTS AND PIECES FOR A COMPLETE, WORKING SYSTEM. 104 WATTS, 120-277V	PENDANT MOUNTED AT 10' A.F.F.	NORDEON BT-7W-11-BL + BL-6-3000K-UNV-WB-5.5-BL-DIM-0-10V-BMB-AIR-SS-BSC-15 FT	57	277V 1P 2W
F1E		LED / 3000K	SAME AS TYPE "F1" EXCEPT PROVIDE WITH INTEGRAL 90-MIN NICAD BATTERY PACK RATED AT 1200 LU MIN.	PENDANT MOUNTED AT 10' A.F.F.	NORDEON BT-7W-11-BL + BLE-6-3000K-UNV-WB-5.5-BL-DIM-0-10V-BMB-AIR-SS-BSC-15 FT	57	277V 1P 2W
F2A		LED / 3000K	11' TRUNKING SYSTEM INCLUDING LED LINEAR INSERTS WITH WIDE BEAM OPTIC AND ACCENT FIXTURES WITH 45 DEGREE OPTICS, 80+ CRI, 0-10V DIMMING. PROVIDE ALL PARTS AND PIECES FOR A COMPLETE, WORKING SYSTEM. 104 WATTS, 150-277V	PENDANT MOUNTED AT 10' A.F.F.	NORDEON BT-7W-11-BL + (2)BL-4-3000K-UNV-WB-3.7-BL-DIM + (2)SKE2-45W-UNV-940-WB-BL-DIM-0-10V-BMB-AIR-SS-BSC-15 FT	37	277V 1P 2W
F2AE		LED / 3000K	SAME AS TYPE "F2A" EXCEPT PROVIDE WITH INTEGRAL 90-MIN NICAD BATTERY PACK RATED AT 1200 LU MIN.	PENDANT MOUNTED AT 10' A.F.F.	NORDEON BT-7W-11-BL + (2)BLE-4-3000K-UNV-WB-3.7-BL-DIM + (2)SKE2-45W-UNV-940-WB-BL-DIM-0-10V-BMB-AIR-SS-BSC-15 FT	37	277V 1P 2W
F2B		LED / 3000K	11' TRUNKING SYSTEM INCLUDING LED LINEAR INSERTS WITH WIDE BEAM OPTIC AND ACCENT FIXTURES WITH 45 DEGREE OPTICS, 80+ CRI, 0-10V DIMMING. PROVIDE ALL PARTS AND PIECES FOR A COMPLETE, WORKING SYSTEM. 104 WATTS, 150-277V	PENDANT MOUNTED AT 10' A.F.F.	NORDEON BT-7W-11-BL + (2)BL-4-3000K-UNV-WB-3.7-BL-DIM + (2)SKE2-38W-UNV-940-WB-BL-DIM-0-10V-BMB-AIR-SS-BSC-15 FT	19	277V 1P 2W
K		LED / 3000K	1.3125" WIDE X 2.25" HIGH X 4' LED WOOK CEILING INTEGRATED LINEAR LUMINAIRE WITH FLAT LENS, 80 CRI, INTEGRAL 0-10V 1% DIMMING DRIVER. 16.4 WATTS, 120-277V	RECESSED	AXIS LIGHTING SL1-4'- SO-400-80-30- - UNV-DP-1-UWB	12.3	277V 1P 2W
KE		LED / 3000K	SAME AS TYPE "K" EXCEPT PROVIDE AND INSTALL REMOTE 90-MINUTE NICAD BATTERY PACK WITH MINIMUM 1400 LUMEN OUTPUT. MOUNT TO ADJACENT STRUCTURE IN AN ACCESSIBLE MANNER. PROVIDE WITH RED ILLUMINATED TEST SWITCH.	RECESSED	AXIS LIGHTING SL1-4'- SO-400-80-30- - UNV-DP-1-UWB	12.3	277V 1P 2W


LIGHTING FIXTURE SCHEDULE (CONT.)							
CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS
L1		LED / 3500K	2' X 2' LED RECESSED FLAT PANEL WITH ANTI-MICROBIAL PAINT, 80 CRI, 0-10V 10% DIMMING DRIVER. 36.3 W, 120-277V	GRID	LITHONIA LIGHTING CPX-2X2-4000LM-80CRI-35K-SWL-MIN10-ZT-MVOLT-DWAM	36.3	277V 1P 2W
L2		LED / 3500K	2' X 4' LED RECESSED FLAT PANEL WITH ANTI-MICROBIAL PAINT, 80 CRI, 0-10V 10% DIMMING DRIVER. 36.7 W, 120-277V	GRID	LITHONIA LIGHTING CPX-2X4-4000LM-80CRI-35K-SWL-MIN10-ZT-MVOLT-DWAM	36.7	277V 1P 2W
L2E		LED / 3500K	SAME AS TYPE "L2" EXCEPT PROVIDE WITH INTEGRAL 90-MIN NICAD BATTERY PACK RATED AT 1200 LU MIN.	GRID	LITHONIA LIGHTING CPX-2X4-4000LM-80CRI-35K-SWL-MIN10-ZT-MVOLT-E10WLCP-DWAM	36.7	277V 1P 2W
S1-4		LED / 3000K	3.7" WIDE X 3.8" HIGH X 4' LENGTH LED WET LOCATION SURFACE MOUNT LINEAR WITH END POWER FEED, 80 CRI, INTEGRAL 0-10V 1% DIMMING DRIVER. 4.7 WATTS PER FOOT, 120-277V	IN-GRADE	PINNACLE LIGHTING EX3-WET-N-830-4'-IND-S-U-FSD-1-0-BR-EPF	18.8	MULTIPLE
S1-4E		LED / 3000K	SAME AS TYPE "S1-4" EXCEPT PROVIDE WITH INTEGRAL 90-MIN NICAD BATTERY PACK RATED AT 1200 LU MIN.	SURFACE	PINNACLE LIGHTING EX3-WET-N-830-4'-IND-S-U-FSD-1-FSB-BR-EPF	18.8	277V 1P 2W
S1-8		LED / 3000K	3.7" WIDE X 3.8" HIGH X 8' LENGTH LED WET LOCATION SURFACE MOUNT LINEAR WITH END POWER FEED, 80 CRI, INTEGRAL 0-10V 1% DIMMING DRIVER. 4.7 WATTS PER FOOT, 120-277V	SURFACE	PINNACLE LIGHTING EX3-WET-N-830-4'-IND-S-U-FSD-1-0-BR-EPF	37.6	277V 1P 2W
S1-8E		LED / 3000K	SAME AS TYPE "S1-8" EXCEPT PROVIDE WITH INTEGRAL 90-MIN NICAD BATTERY PACK RATED AT 1200 LU MIN.	SURFACE	PINNACLE LIGHTING EX3-WET-N-830-8'-IND-S-U-FSD-1-0-BR-FSB-EPF	37.6	277V 1P 2W
S2		LED / 3000K	15.375" LONG X 4.625" WIDE X 5" HIGH LED WET LOCATION (IP68) RECESSED LINEAR IN-GRADED LUMINAIRE WITH WALL GRAZE OPTIC AND GLARE SHIELD, 80 CRI, 0-10V DIMMING DRIVER. 13.4 WATTS, 130-277V	IN-GRADE	VISTAPRO 1141-GB-WG-30-A-MV-010-GS	13.4	277V 1P 2W
S3		LED / 3000K	26.375" LONG X 4.625" WIDE X 5" HIGH LED WET LOCATION (IP68) RECESSED LINEAR IN-GRADED LUMINAIRE WITH WALL GRAZE OPTIC AND GLARE SHIELD, 80 CRI, 0-10V DIMMING DRIVER. 35.6 WATTS, 130-277V	IN-GRADE	VISTAPRO 1142-GB-WW-30-B-DV-010-GS	35.6	277V 1P 2W
S4		LED / 3000K	WALL LUMINAIRE WITH 3000K COLOR TEMPERATURE.	SURFACE MOUNTED AT 6'-0" A.F.F. TO B.O FIXTURE	BEGA B33514-MVOLT-K3-BRZ	3	277V 1P 2W
SA2		LED / 3000K	LED TWIN HEAD POLE LIGHTING FIXTURE WITH TYPE "T4M" OPTICS WITH BRONZE HOUSING COLOR AND BRONZE POLE COLOR ON 36" A.F.G. CONCRETE BASE WITH SQUARE STRAIGHT 22'-0" ALUMINUM POLE.	POLETOP AT +25' A.F.F.	LITHONIA FIXTURE HEAD DSX0-P4-30K-80CRI-T4M-MVOLT-SPA-DDBXD LITHONIA FIXTURE POLE SSA-22-6J-DM28AS-VD-FBC-DDBXD	186	MULTIPLE
SB		LED / 3000K	LED SURFACE WALL MOUNTED LIGHTING FIXTURE WITH TYPE "VW" WIDE OPTICS AND BRONZE HOUSING WITH 3000K COLOR TEMPERATURE.	SURFACE WALL AT +14' A.F.F.	LITHONIA WDGE1-LED-P2-30K-80CRI-VW-MVOLT-DDBXD	15	277V 1P 2W
SBE		LED / 3000K	SAME AS TYPE "SB" EXCEPT PROVIDE WITH INTEGRAL 90-MINUTE NICADE BATTERY PACK RATED AT 1200 LUMEN.	SURFACE WALL AT +14' A.F.F.	LITHONIA WDGE1-LED-P2-30K-80CRI-VW-MVOLT-DDBXD-E4WH	15	277V 1P 2W
SE		LED / 3000K	LED EMERGENCY WALL PACK WITH BRONZE FINISH AND 3000K COLOR TEMPERATURE.	SURFACE WALL MOUNTED AT 8'-0" A.F.F.	LITHONIA WPX0-LED-AL0-1-3000-MVOLT-DDBXD	6.4	MULTIPLE



1 POLE BASE 'SA' AND 'SB' DETAIL

SCALE: NONE

JOB NO. 4081

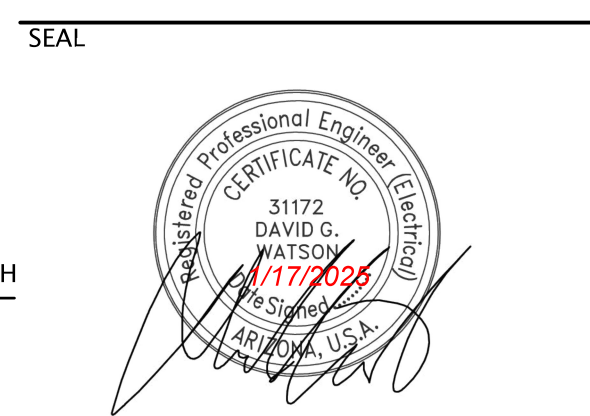
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TUCSON, AZ 85757

S VAVTUE

PROJECT LOCATION

S CAMINO POTAM

S CAMINO COCOM

W TAROOK

W TAROOK

VICINITY

REVISION

NUMBER

DESCRIPTION

DATE

1

COUNTY COMMENTS

10/9/2024

PROJECT NO.

23C-001

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SHEET TITLE

DETAIL SHEET

#1

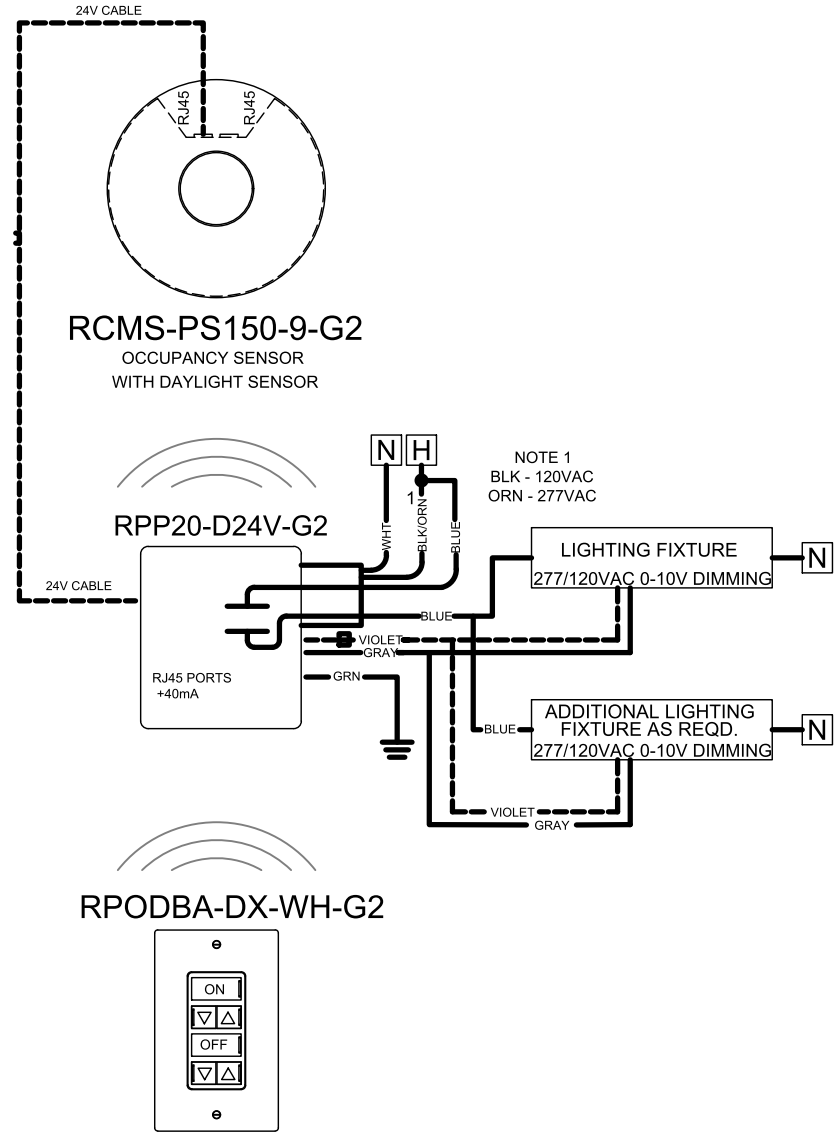
DATE

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SHEET

E6.1

LIGHTING CONTROL WIRING DIAGRAM DETAIL

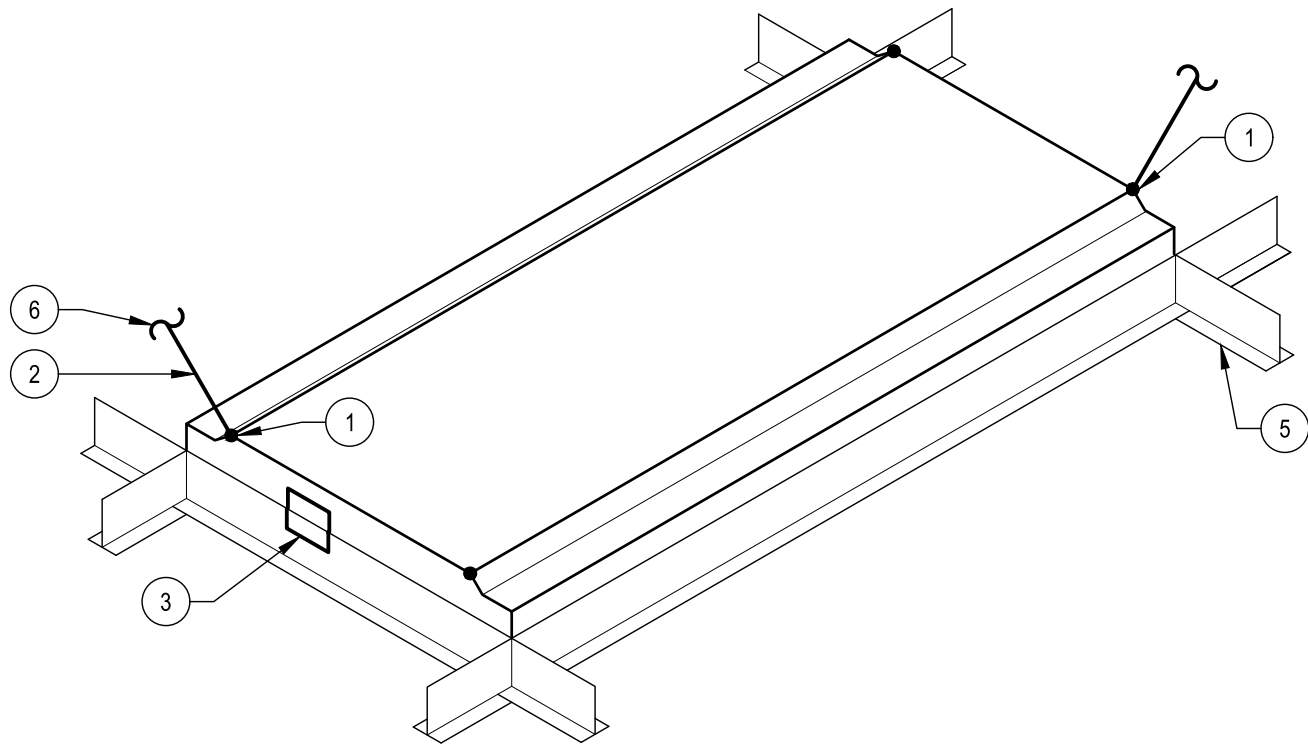


LIGHTING CONTROL LEGEND

SYMBOL	QTY	PRODUCT #	DESCRIPTION
N/A		ACUITY - nLIGHT RPP20-D24V-G2	16 AMP RELAY PACK WITH 0-10V DIMMING CONTROL CHASE NIPPLE MOUNTING.
Da \$	D3a \$	ACUITY - nLIGHT RPODBA-DX-WH-G2	SINGLE POLE ON/OFF TOGGLE WITH DIMMING
'a' MS		ACUITY - nLIGHT RCMS-PS150-9-G2	SMALL RANGE 360° MOTION SENSOR-CEILING MOUNT, LOW VOLTAGE, PASSIVE INFRARED DETECTION (PIR) WITH PHOTOCELL, SWITCH LEG CONTROLLED NOTED.

LIGHTING CONTROLS SCHEDULE AND WIRING DIAGRAMS

SCALE: NONE



DETAIL NOTES

- FASTEN SEISMIC RESTRAINT CLIPS TO LIGHT FIXTURE WITH HEX WASHER HEAD, SHEET METAL SCREWS, MINIMUM TWO (2) PER CLIP (OPTIONAL METHOD). USE IF SAFETY WIRE SUPPORT HOLES ARE NOT PROVIDED WITH FIXTURE.
- 12 GA. SLACK SAFETY WIRE TIES TO SEISMIC CLIPS OR SAFETY WIRE SUPPORT HOLES AND ANCHOR TO BUILDING STRUCTURE. MINIMUM TWO (2) SAFETY WIRES PER LIGHT FIXTURE FOR 2'X4' OR LARGER FIXTURES.
- SEISMIC RESTRAINT CLIP MINIMUM TWO (2) PER LIGHT FIXTURE, SCREWED TO T-BAR PER SPECIFICATIONS. TYPICAL.
- LIGHT FIXTURE SAFETY WIRE SUPPORT HOLE. TYPICAL.
- EXPOSED T-BAR CEILING SYSTEM, HEAVY DUTY GRID. TYPICAL.
- 5/16" DIAMETER DRILL-IN EXPANSION ANCHOR (TO CONCRETE) OR TWO (2) #8X1/2" SELF-TAPPING SCREWS (TO METAL DECKING).

SEISMIC RESTRAINT DETAIL - TROFFER LIGHTS

SCALE: NTS

LIGHTING CONTROL PANEL 'LCP-1' PANEL SCHEDULE

RELAY NO.	PANEL CIRCUIT NO.	ZONE NO.	LIGHTING AREA SERVED	CONTROL TYPE & NOTES
1	M2-1	SITE	SITE POLE LIGHTING	1
2	M2-1	SITE	EXTERIOR BUILDING MOUNTED LIGHTING	1
3	M2-1	SITE	EXTERIOR BUILDING ACCENT LIGHTING	1
4	M2-1	SITE	EXTERIOR BUILDING EMERGENCY LIGHTING FIXTURE TYPE "SE"	1
5	M2-3	SITE	EXTERIOR SIGN LIGHTING	5
6-8	-	-	SPARE	-

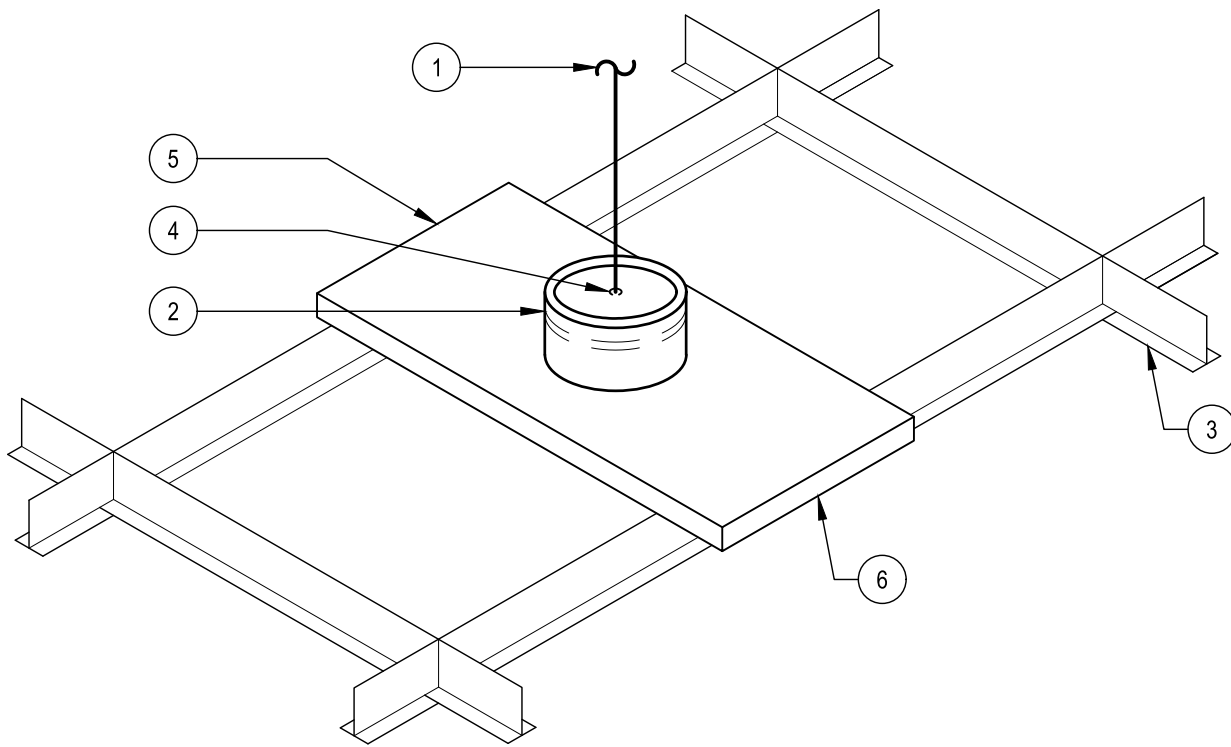
NOTES:				
1	EXTERIOR LIGHTING CIRCUIT WITH PHOTOCELL "ON" TIME CLOCK "OFF" CONTROL.			
2	INTERIOR LIGHTING CIRCUIT, TIMECLOCK "ON", TIMECLOCK "OFF". COORDINATE WITH OWNER DURATION / SEQUENCE TIMES.			
3	ENSURE THIS CIRCUIT IS PROVIDED WITH VOLTAGE BARRIER.			
4	INTERIOR LIGHTING CIRCUIT, TIMECLOCK "ON", TIMECLOCK "OFF" WITH MOMENTARY PUSHBUTTON OVER-RIDE (3-HOUR OPERATION).			
5	EXTERIOR LIGHTING CIRCUIT, NORMALLY "OFF", BUILDING LOSS OF POWER "ON"			

LIGHTING CONTROL DIAGRAM NOTES

- LIGHTING CONTROL PANEL 'LCP-1' (FLUSH MOUNTED) MANUFACTURER: ACUITY OR EQUAL CATALOG #: GR1408LT-ENC-SM-NE1-GR1408-LT-INT-08-NCL-DTCM-0DV-2VB
- LIGHTING BRANCH CIRCUIT PANEL 'M2'.
- SERVED VIA BRANCH CIRCUIT. SEE PANEL SCHEDULE FOR SPECIFIC CIRCUIT.
- EXTERIOR CONTACT INPUT PHOTOCELL MANUFACTURER: ACUITY OR EQUAL CATALOG #: PCELL-2WO-BB
- PROVIDE PANEL WITH U.L. LISTED AND APPROVED VOLTAGE BARRIER(S)

LIGHTING CONTRL PANEL 'LCP-1' AND WIRING DIAGRAM

SCALE: NTS



DETAIL NOTES

- #9 SAFETY WIRE TIED TO SAFETY WIRE SUPPORT HOLE AND FASTENED TO BUILDING STRUCTURE WITH 1" X 2-1/2" LONG SCREW-EYE OR EQUAL.
- LIGHT FIXTURE OR SPEAKER ENCLOSURE.
- EXPOSED T-BAR CEILING SYSTEM OR CONCEALED SUSPENSION SYSTEM.
- SAFETY WIRE SUPPORT HOLE IN FIXTURE OR SPEAKER ENCLOSURE.
- MOUNTING CHANNELS OR T-BAR BRIDGE TO SPAN CEILING SUSPENSION SYSTEM, AS RECOMMENDED BY MANUFACTURER.
- ATTACH TO SUSPENSION SYSTEM WITH CLIPS OR WIRE TIES.

SEISMIC RESTRAINT DETAIL - DOWNLIGHT/SPEAKER

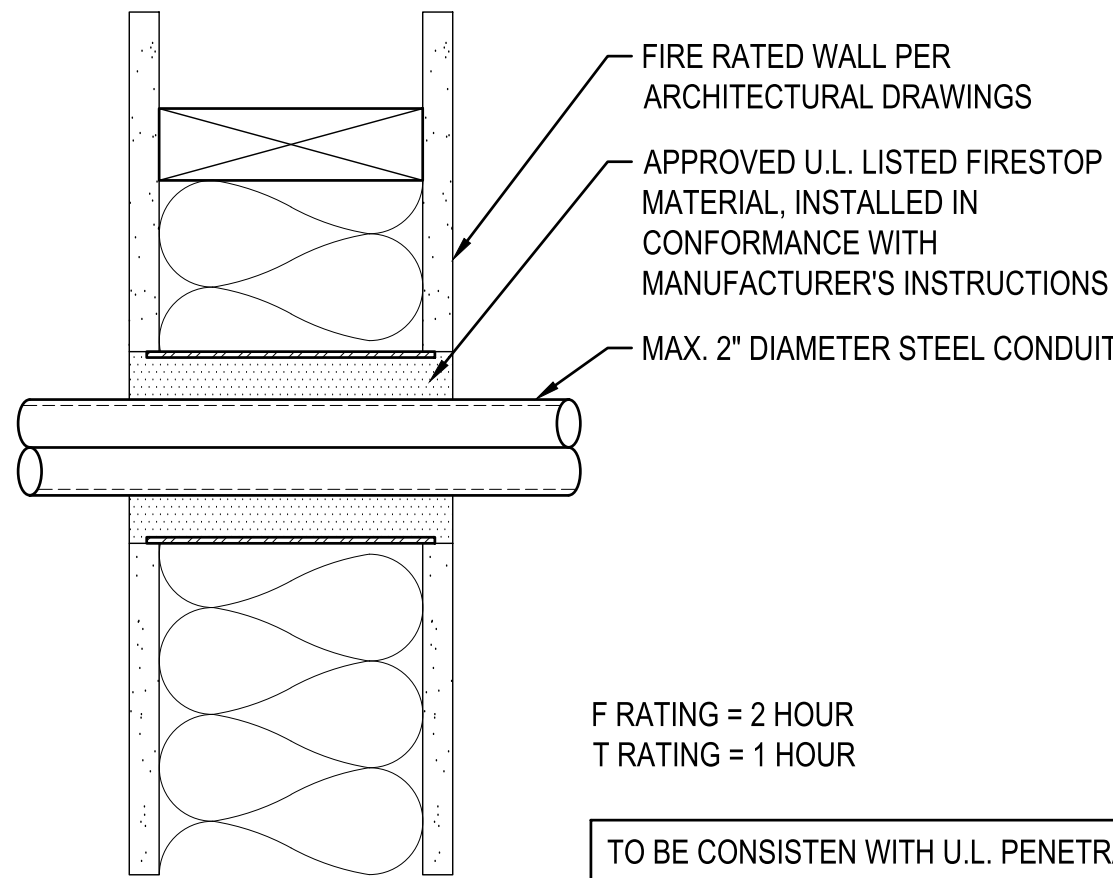
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KEYNOTES

- NOT USED.

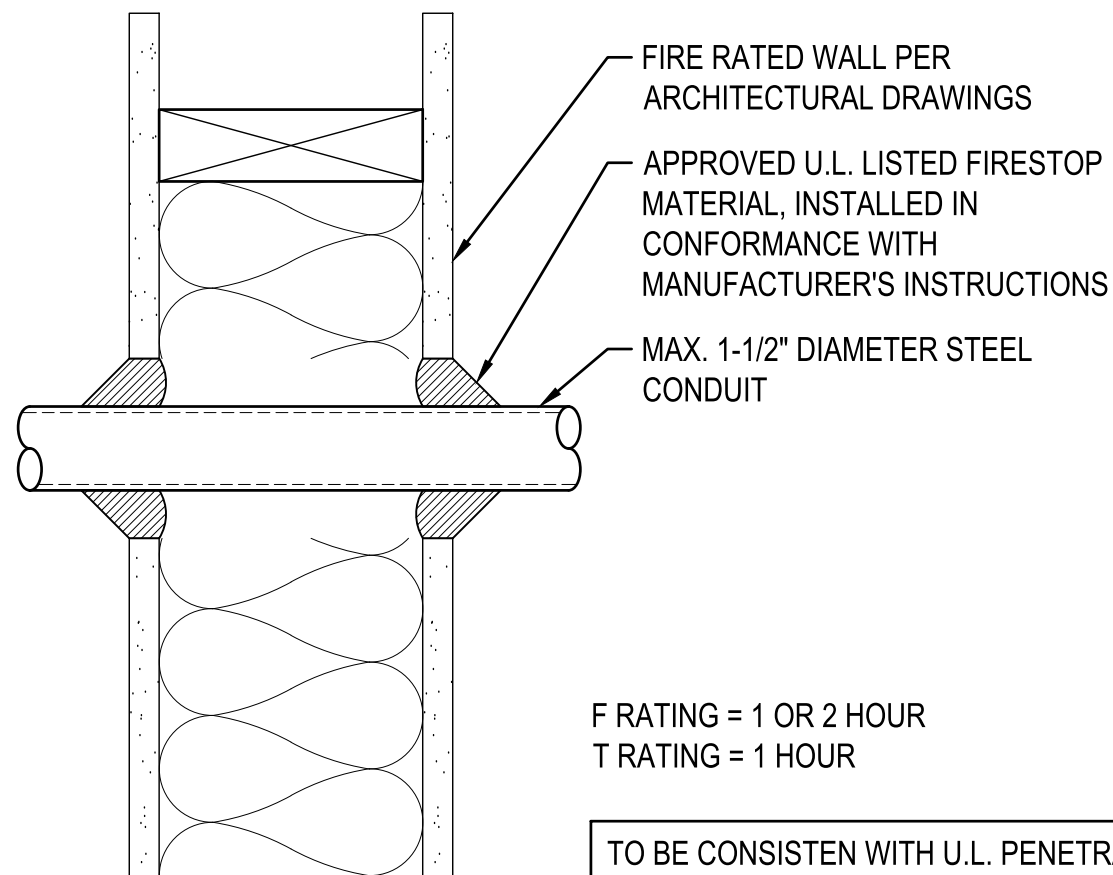
GENERAL NOTES

- NOT USED.



FIRE STOPPING DETAIL - 2" CONDUIT

SCALE: NTS



FIRE STOPPING DETAIL - 1" AND SAMLLER CONDUIT

SCALE: NTS

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VICINITY
PROJECT LOCATION
S VAVTQUE
CALLE TORIM
W TAROOK
S CAMINO POTAM
S CAMINO COCOIM

REVISION NUMBER	DESCRIPTION	DATE
1	COUNTY COMMENTS	10/9/2024

PROJECT NO. 23C-001

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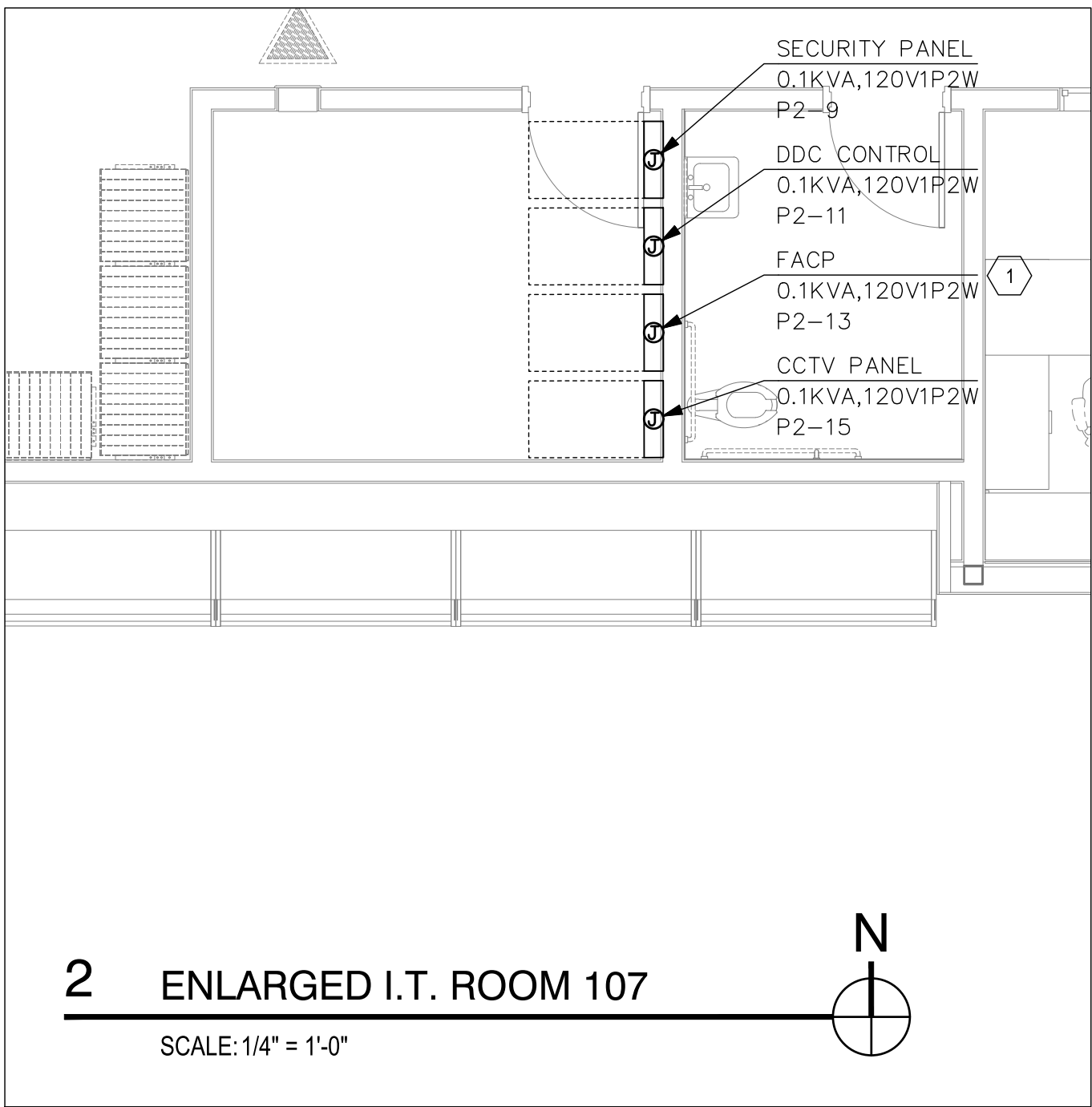
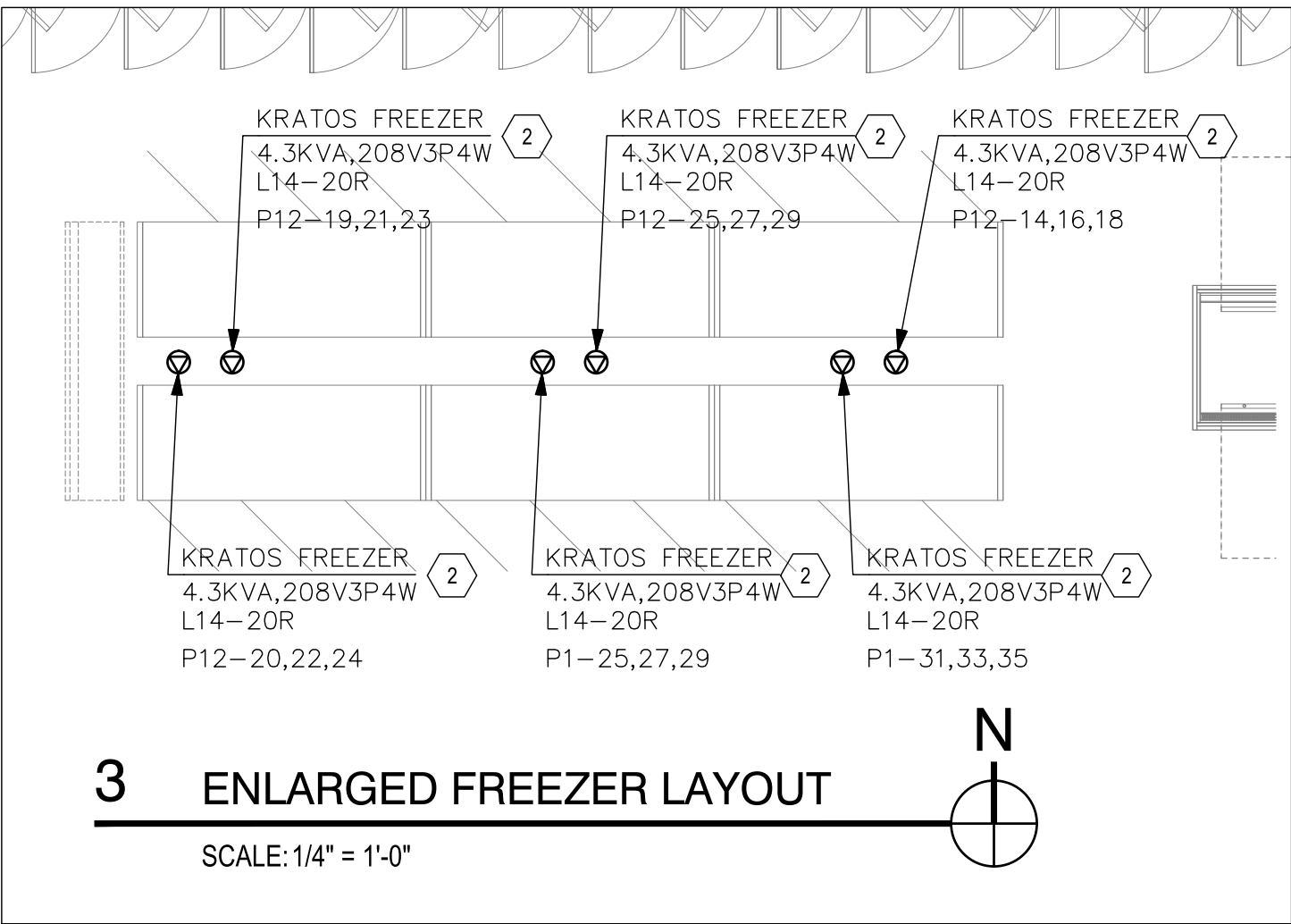
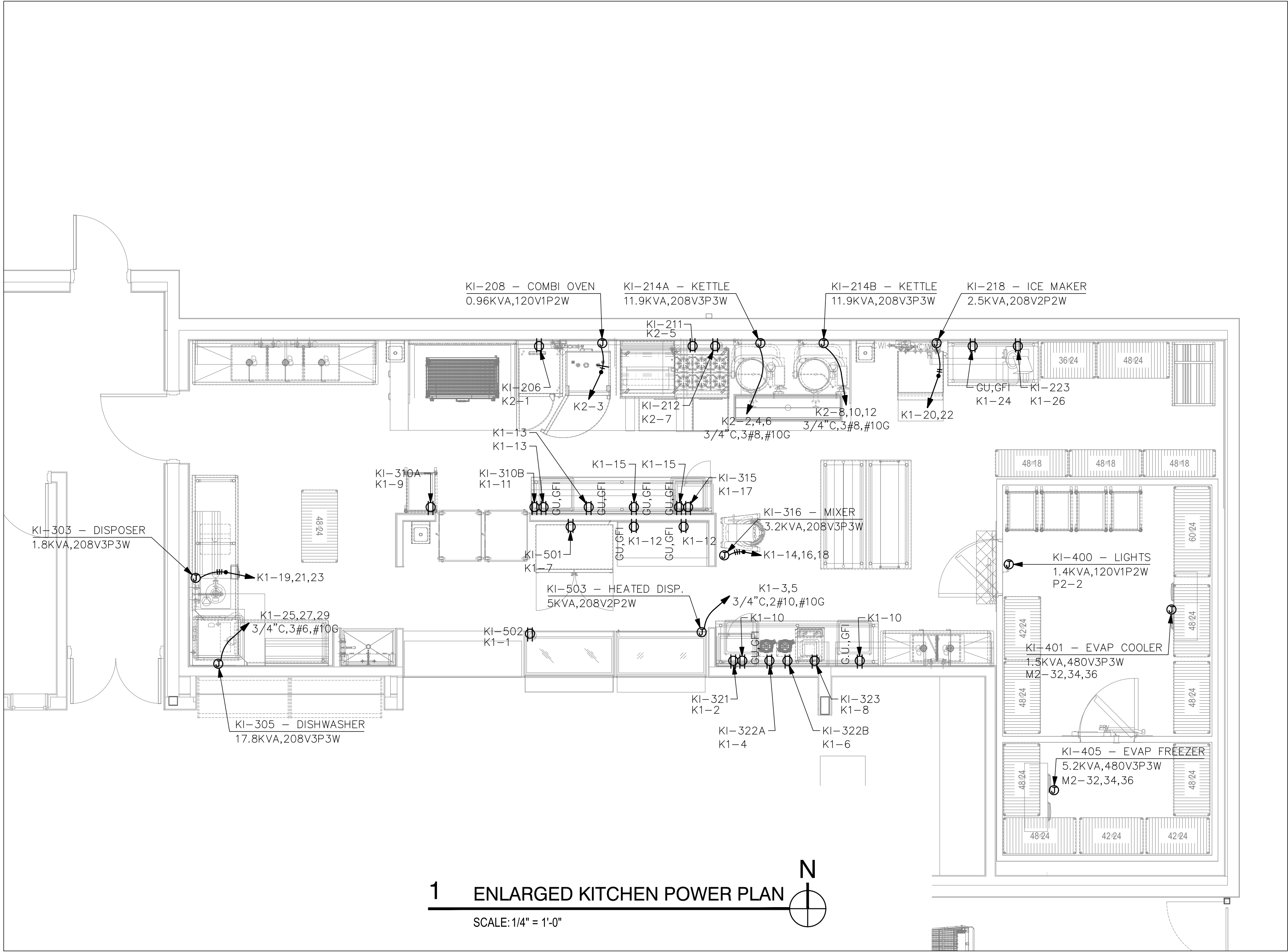
SHEET TITLE

DETAIL SHEET #3

DATE 02.20.2024

SHEET

E6.3

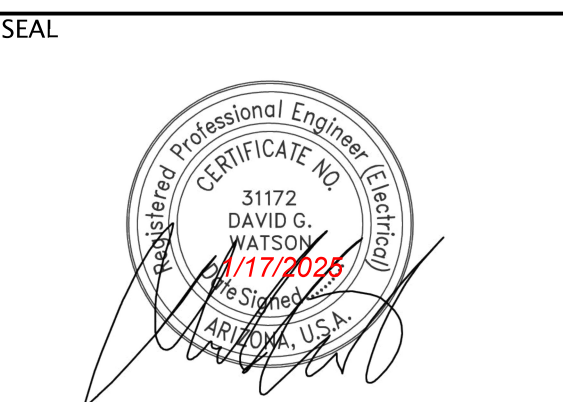


- ### KEYNOTES
- 1 DEDICATED BRANCH CIRCUIT FOR FIRE ALARM CONTROL PANEL. VERIFY FINAL LOCATION PRIOR TO WORK. COORDINATE ADDITIONAL REQUIREMENTS WITH FA CONTRACTOR AS NEEDED.
 - 2 PROVIDE AND INSTALL ELECTRICAL CONNECTION FOR REFRIGERATED / FREEZER COMPARTMENT EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY DIRECT CONNECT. CORD CONNECT AND RECEPTACLE / DEVICE ROUGH IN LOCATIONS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ELECTRICAL ROUGH-IN.

- ### GENERAL NOTES
1. SEE FOOD SERVICE DRAWINGS FOR ALL ELECTRICAL DEVICE BOX, RECEPTACLE AND EQUIPMENT ROUGH IN LOCATION(S), MOUNTING HEIGHT(S), SPECIFIC REQUIREMENTS AND DEVICE NEMA TYPES PRIOR TO ALL ROUGH IN.
 2. ALL DEVICES SHOWN ON THIS SHEET SHALL HAVE STAINLESS STEEL DEVICE COVER PLATES, U.N.O.
 3. ALL DEVICES SHOWN ON THIS SHEET INSTALLED WITHIN 6'-0" OF SINKS SHALL BE GFCI TYPE.

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Pascua Yaqui Tribe
7490 S CAMINO DE OESTE
TUCSON, AZ 85757

Micro Market
5010 W CALLE TORIM
TUCSON, AZ 85757

VICINITY
S VAVTQUE
PROJECT LOCATION
CALLE TORIM
W TAROOK
S CAMINO POTAM
S CAMINO COCOIM

REVISION	DESCRIPTION	DATE
NUMBER 1	COUNTY COMMENTS	10/9/2024

PROJECT NO. 23C-001
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SHEET TITLE

DETAIL SHEET
#4

DATE 02.20.2024
SHEET

E6.4

COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Chepa's Micro Market
Project Type: New Construction

Construction Site: 5010 W Calle Torim
Tucson, AZ 85757
Owner/Agent: Pascau Yaqui Tribe
Designer/Contractor: Sternco Engineers

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Vestibule (Common Space Types:Lobby - General)	1421	1.00	1421
2-Utility (Common Space Types:Electrical/Mechanical)	393	0.43	169
3-Receiving and Storage (Common Space Types:Storage)	1886	0.63	1188
4-Kitchen, Deli (Common Space Types:Food Preparation)	1284	1.06	1361
5-Common Space Types:Restrooms	529	0.85	450
6-Demonstration Kitchen (Common Space Types:Classroom/Lecture/Training)	944	0.96	906
7-Market (Common Space Types:Sales Area)	5161	1.59	8206
8-Common Space Types:Office - Enclosed	130	0.93	121
Total Allowed Watts =			13822

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Vestibulo (Common Space Types:Lobby - General)				
K: Other:	1	52	12	640
KE: Other:	1	4	12	48
A2: Other:	1	3	26	78
A2E: Other:	1	1	26	26
E: Other:	1	3	3	9
2-Utility (Common Space Types:Electrical/Mechanical)				
A1: Other:	1	2	26	52
A1E: Other:	1	2	26	52
A2: Other:	1	1	26	26
A2E: Other:	1	1	26	26
E: Other:	1	1	3	3
3-Receiving and Storage (Common Space Types:Storage)				
A1: Other:	1	13	26	338
A1E: Other:	1	4	26	104
E: Other:	1	2	3	6

Project Title: Chepa's Micro Market
Data filename: S:\Projects\4000-4999\4000s\4081-Micro Market\10 - IECC Compliance\2024_03_19_4081-IECC Elec\2024_03_20_4081-IECC Elec.cck
Report date: 03/20/24
Page 1 of 10

Exterior Lighting PASSES: Design 57% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

DAVE WATSON
Name - Title Signature Date 03-20-2024

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
4-Kitchen, Deli (Common Space Types:Food Preparation)				
L1: Other:	1	1	36	36
L2: Other:	1	6	37	222
L2E: Other:	1	3	37	110
K: Other:	1	6	12	74
D: Other:	1	3	10	31
E: Other:	1	1	3	3
5-Common Space Types:Restrooms				
D: Other:	1	9	10	94
DE: Other:	1	9	10	94
6-Demonstration Kitchen (Common Space Types:Classroom/Lecture/Training)				
B: Other:	1	9	40	356
BE: Other:	1	3	40	119
E: Other:	1	1	3	3
7-Market (Common Space Types:Sales Area)				
C: Other:	1	10	108	1080
CE: Other:	1	5	108	540
D: Other:	1	4	10	42
F1: Other:	1	17	57	969
F1E: Other:	1	4	57	228
F2A: Other:	1	10	37	370
F2AE: Other:	1	2	37	74
F2B: Other:	1	24	19	456
K: Other:	1	11	12	136
KE: Other:	1	2	12	25
E: Other:	1	4	3	12
8-Common Space Types:Office - Enclosed				
L1: Other:	1	3	36	109
L1E: Other:	1	1	36	36
Total Proposed Watts =			6624	

Interior Lighting PASSES: Design 52% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

DAVE WATSON
Name - Title Signature Date 03-20-2024

Project Title: Chepa's Micro Market
Data filename: S:\Projects\4000-4999\4000s\4081-Micro Market\10 - IECC Compliance\2024_03_19_4081-IECC Elec\2024_03_20_4081-IECC Elec.cck
Report date: 03/20/24
Page 2 of 10

COMcheck Software Version 4.1.5.5
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 72.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Project Title: Chepa's Micro Market
Data filename: S:\Projects\4000-4999\4000s\4081-Micro Market\10 - IECC Compliance\2024_03_19_4081-IECC Elec\2024_03_20_4081-IECC Elec.cck
Report date: 03/20/24
Page 5 of 10

COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Chepa's Micro Market
Project Type: New Construction
Exterior Lighting Zone: 2 (Residential mixed use area (LZ2))

Construction Site: 5010 W Calle Torim
Tucson, AZ 85757
Owner/Agent: Pascau Yaqui Tribe
Designer/Contractor: Sternco Engineers

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	18655 ft2	0.04	Yes	746
Illuminated area of facade wall or surface	3588 ft2	0.07	No	269
Walkway < 10 feet wide	1302 ft of	0.5	Yes	651
Loading dock	655 ft2	0.35	Yes	229
Walkway >= 10 feet wide	1284 ft2	0.1	Yes	128
Total Tradable Watts (a) =			1755	
Total Allowed Watts =			2024	
Total Allowed Supplemental Watts (b) =			400	

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Parking area (18655 ft2): Tradable Wattage				
SA2: Other:	1	2	186	372
Illuminated area of facade wall or surface (3588 ft2): Non-tradable Wattage				
S2: Other:	1	19	13	255
S3: Other:	1	6	36	214
Walkway < 10 feet wide (1302 ft of walkway length): Tradable Wattage				
SB: Other:	1	3	15	45
SBE: Other:	1	2	15	30
Loading dock (655 ft2): Tradable Wattage				
SB: Other:	1	1	15	15
SBE: Other:	1	1	15	15
Walkway >= 10 feet wide (1284 ft2): Tradable Wattage				
S1-4E: Other:	1	2	19	38
S1-8: Other:	1	8	38	301
S4: Other:	1	8	3	24
Total Tradable Proposed Watts =			839	

Project Title: Chepa's Micro Market
Data filename: S:\Projects\4000-4999\4000s\4081-Micro Market\10 - IECC Compliance\2024_03_19_4081-IECC Elec\2024_03_20_4081-IECC Elec.cck
Report date: 03/20/24
Page 3 of 10

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22] ¹	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1.1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1.2 [EL19] ¹	Occupancy sensors control function in warehouses: in warehouses, the lighting in aislesways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1.3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2.2 [EL21] ¹	Each area not served by occupancy sensors (per C405.2.1) have time switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Project Title: Chepa's Micro Market
Data filename: S:\Projects\4000-4999\4000s\4081-Micro Market\10 - IECC Compliance\2024_03_19_4081-IECC Elec\2024_03_20_4081-IECC Elec.cck
Report date: 03/20/24
Page 6 of 10

JOB NO. 4081

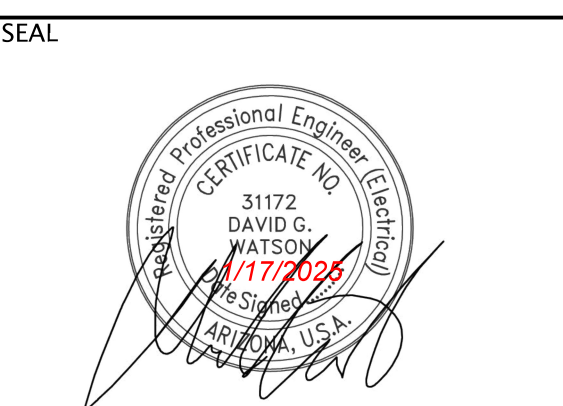
STERNCO engineers, inc.

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Micro Market

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TUCSON, AZ 85757

VICINITY

REVISION	DESCRIPTION	DATE
NUMBER 1	COUNTY COMMENTS	10/9/2024

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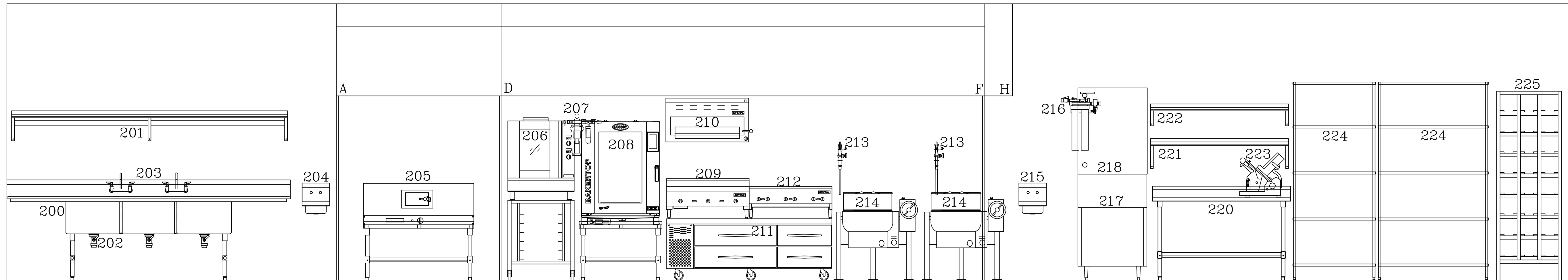
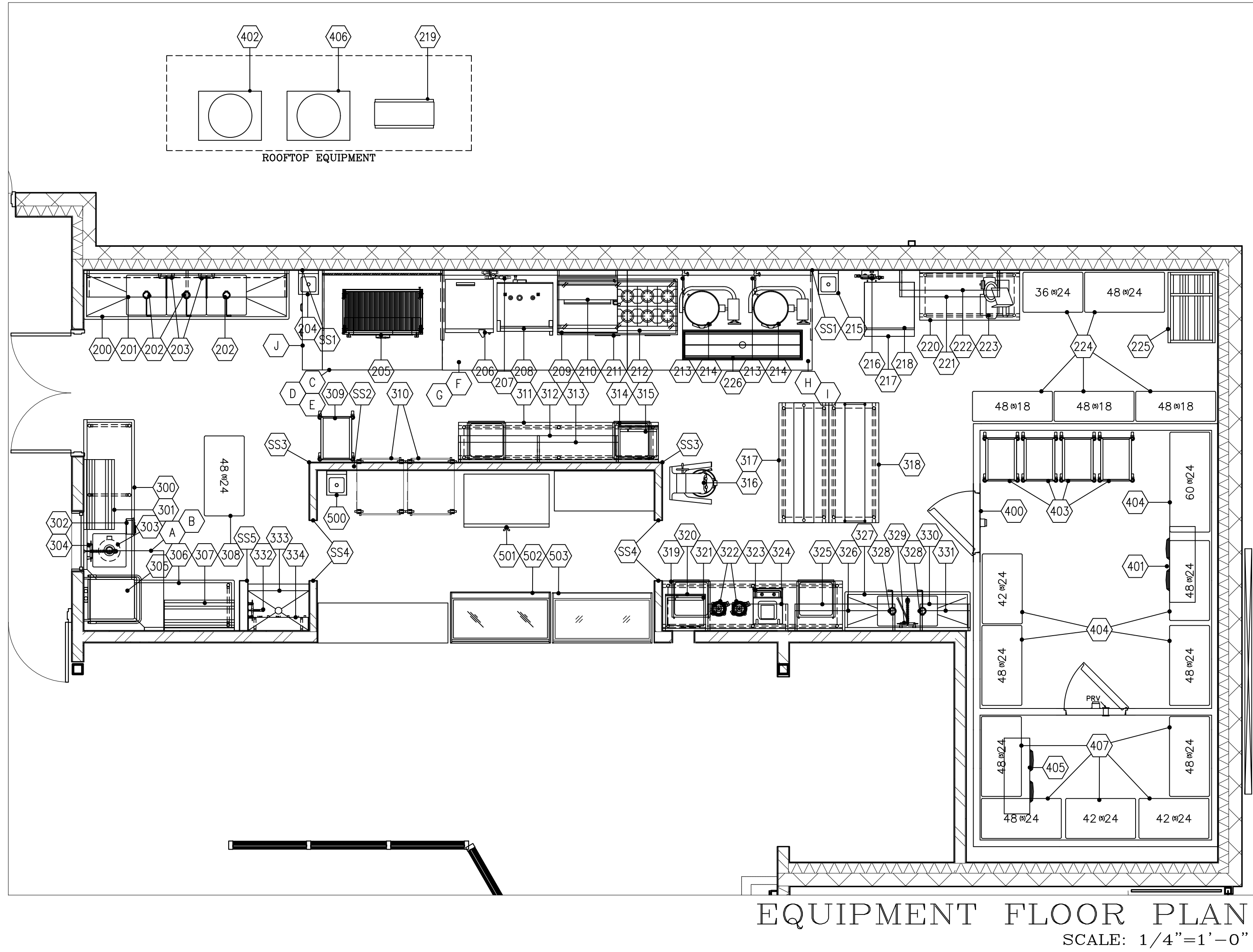
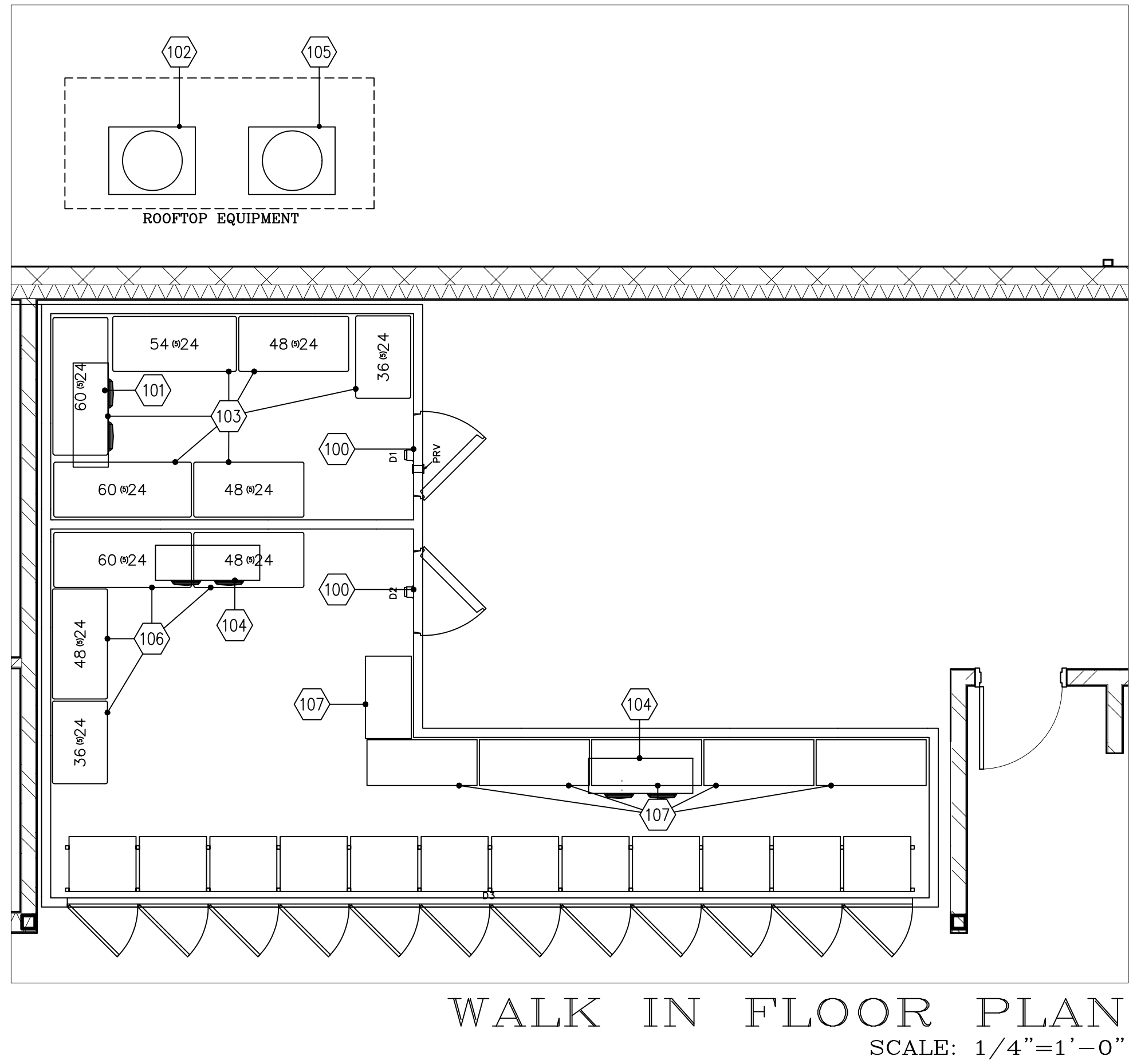
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SHEET TITLE

IECC COMPLIANCE

DATE 02.20.2024
SHEET

E7.1

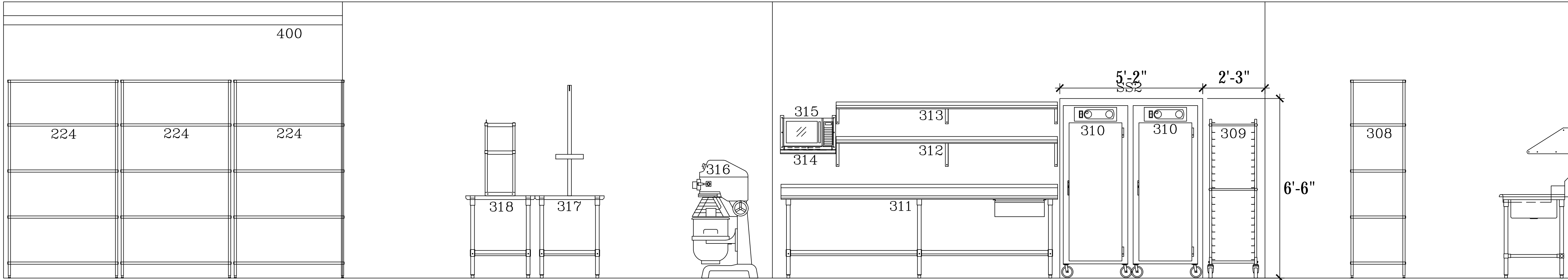


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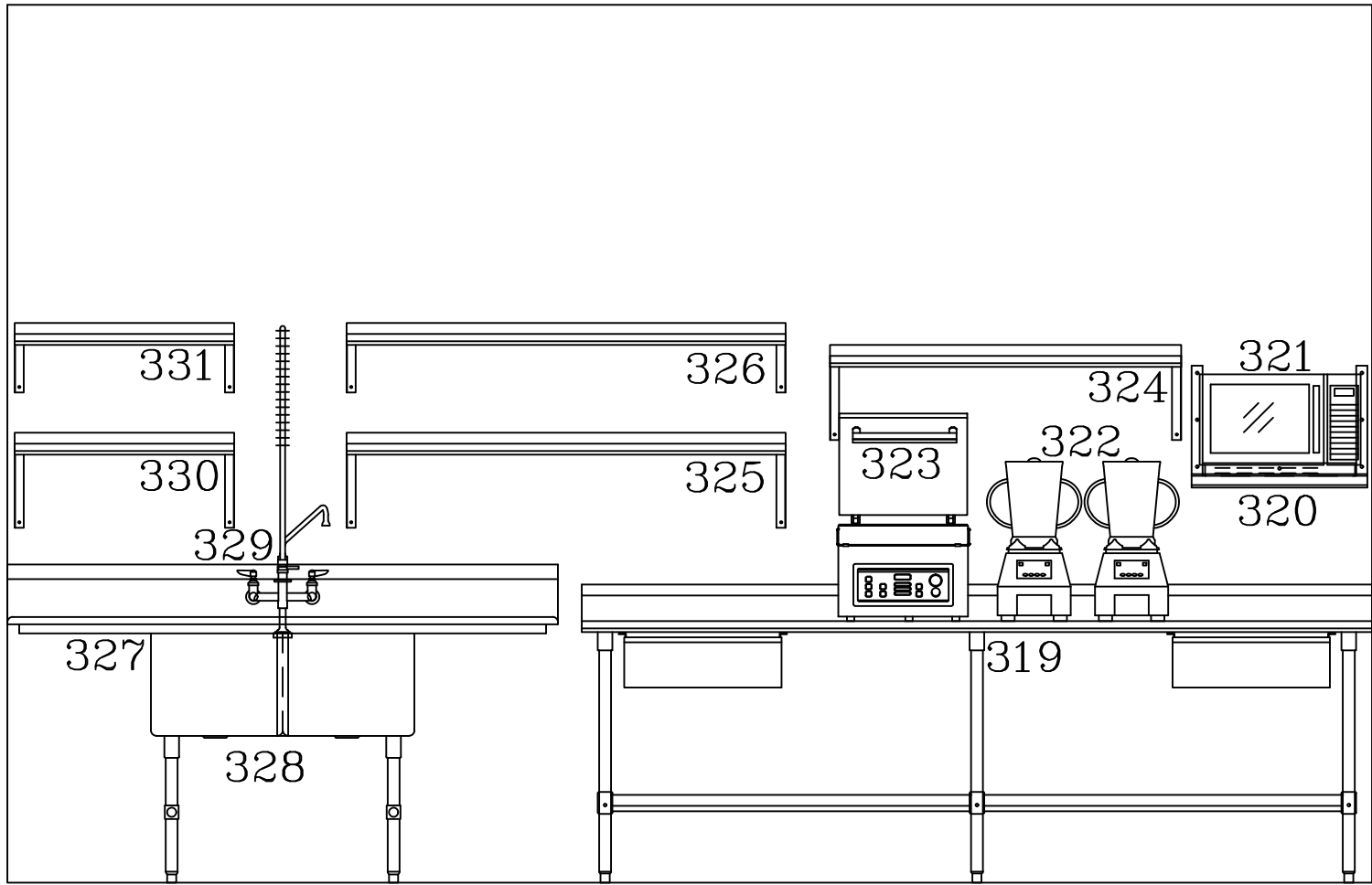
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		AZ★RC ARIZONA RESTAURANT CONSULTING 7920 E. OAK STREET - SCOTTSDALE, ARIZONA 85257 602.699.5131 JUSTIN@AZRESTAURANTCONSULTING.COM				
MICRO MARKET	TUCSON, ARIZONA					
FOODSERVICE EQUIPMENT PLAN						
Drawn by: JBM						
Checked by:						
Date: 2/29/2024						
Sheet Number:						
FS-1.0						



E2 KITCHEN – SOUTH

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



E3 PREP AREA – SOUTH

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

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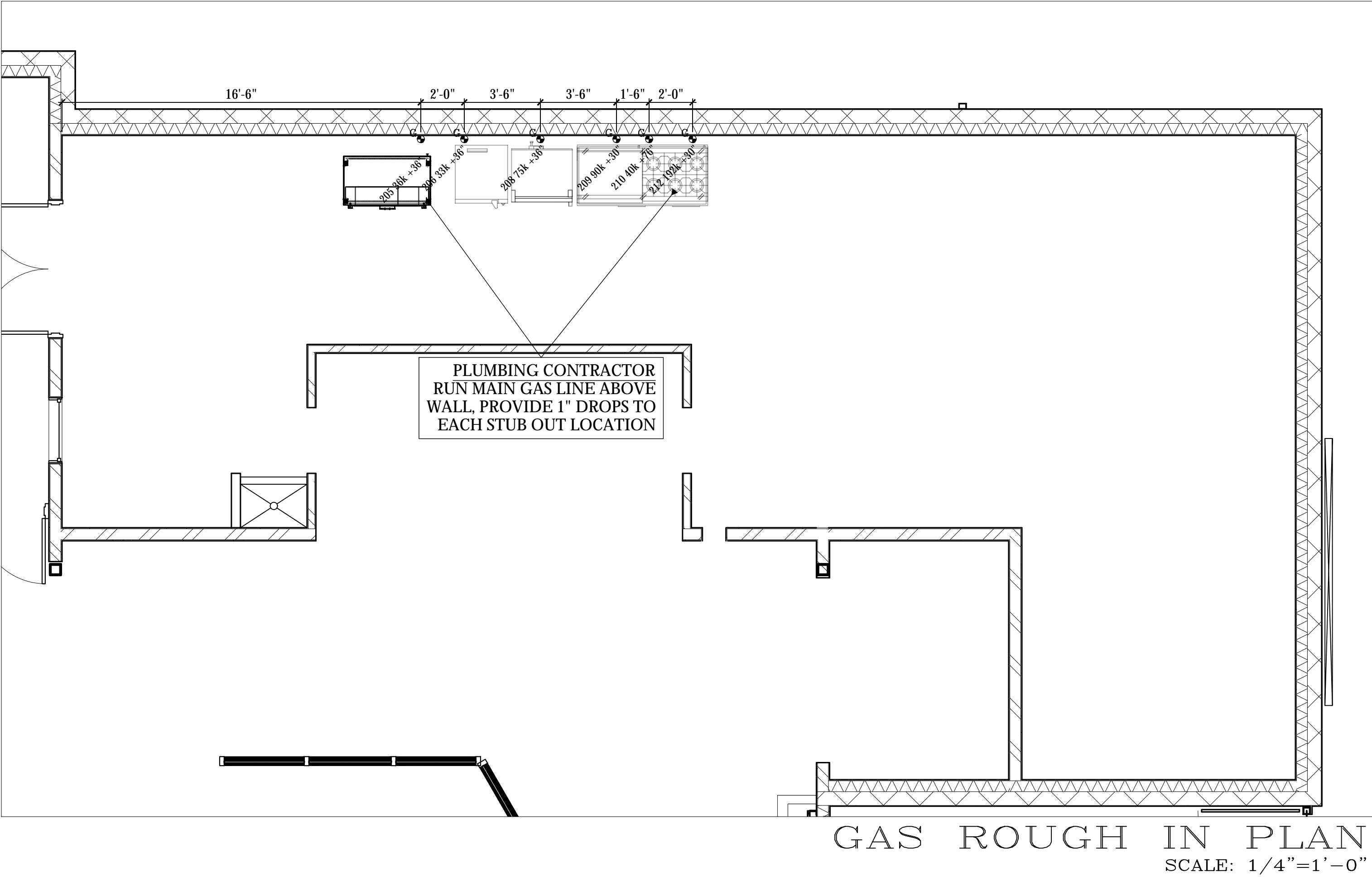


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MERGE ARCHITECTURAL 600 N. 4TH STREET #112 PHOENIX, ARIZONA 85004 602-635-1581		A	-	-
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		C	-	-
		D	-	-
		E	-	-
MICRO MARKET TUCSON, ARIZONA		EQUIPMENT SCHEDULE		
		Drawn by: JBM		
		Checked by:		
		Date: 2/29/2024		
		Sheet Number:		
		FS-1.1		

[illegible]

<div><div></div><div><p>MICRO MARKET</p><hr/><p><i>TUCSON, ARIZONA</i></p></div><div><p>EQUIPMENT SCHEDULE</p></div></div>	<p>7920 E. OAK STREET - SCOTTSDALE, ARIZONA 85257 602.699.5131 JUSTIN@AZRESTAURANTCONSULTING.COM</p>		<p>ARCHITECT</p> <p>MERGE ARCHITECTURAL 600 N. 4TH STREET #112 PHOENIX ARIZONA 85004 602-635-1581</p>	REV.		STATUS
	△	-				
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FS-1.2



LEGEND - PLUMBING CONNECTIONS

NOT ALL SYMBOLS MAY BE USED

- ^C UNTREATED COLD WATER STUB OUT
- ^C REVERSE OSMOSIS COLD WATER STUB OUT
- ^H UNTREATED HOT WATER STUB OUT
- ^H HOT/COLD WATER CONNECTION POINT TO BE INSTALLED BY PLUMBING CONTRACTOR
- G^G G-GAS STUB OUT AT WALL
- ^G GAS CONNECTION POINT TO BE INSTALLED BY PLUMBING CONTRACTOR
- D^D DIRECT DRAIN STUB OUT
- ^D DRAIN CONNECTION POINT PVC OR COPPER (AS REQUIRED) TO FLOOR SINK TO BE INSTALLED BY PLUMBING CONTRACTOR
- FLOOR SINK, NEW
- FLOOR SINK, EXISTING
- FLOOR DRAIN
- ⊠ BACKFLOW PREVENTER LOCATION - SEE SCHEDULE
- SODA CONDUIT STUB OUT (UNDERGROUND)
- SODA LINES (OVERHEAD)
- ⊗ BEER CONDUIT STUB OUT (UNDERGROUND)

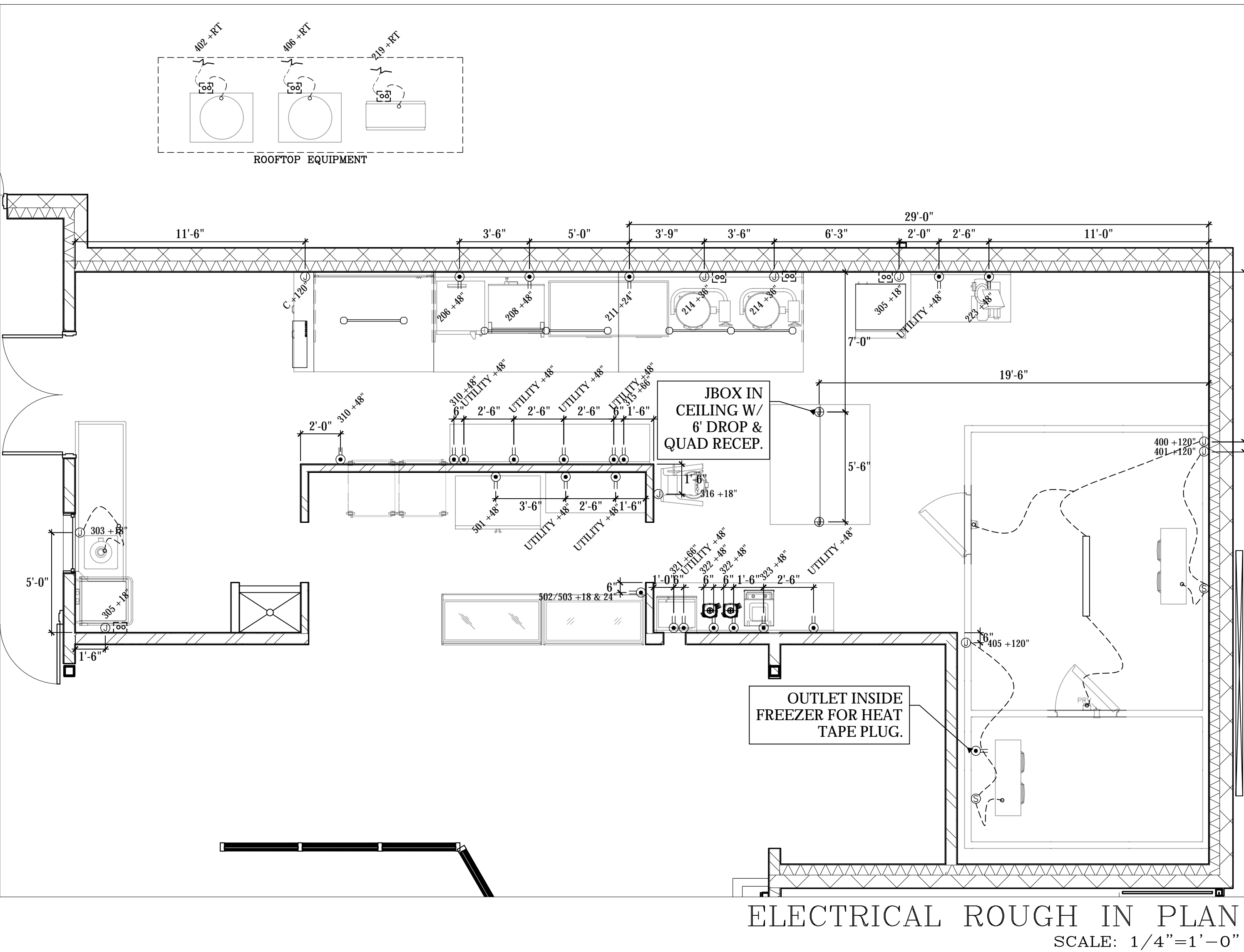
PLUMBING SCOPE OF WORK - GAS NOTES

- KEY TO PROVIDE:
- QUICK DISCONNECT GAS HOSE KITS, 3/4" X 48" FOR EACH PIECE OF GAS EQUIPMENT AS NOTED ON EQUIPMENT SCHEDULE.
 - SOLENOID VALVE FOR MAIN GAS LINE SHUT OFF (PART OF THE ANSUL SYSTEM).
- PLUMBING CONTRACTOR TO PROVIDE:
- INSTALLATION OF ALL QUICK DISCONNECT GAS HOSES & SAFETY CABLES AS SHOWN IN THE DETAIL ABOVE.
 - INSTALLATION OF SOLENOID VALVE FOR MAIN GAS LINE IN LOCATION DETAILED BY PLUMBING ENGINEER ON GAS LINE SCHEMATIC.
 - APPROPRIATE GAS PSI/W.C. TO ALL NECESSARY EQUIPMENT, PER SPEC SHEETS PROVIDED
- ELECTRICAL CONTRACTOR TO PROVIDE:
- WIRING FROM SOLENOID VALVE TO ELECTRICAL CONTROLS OF HOOD SYSTEM**



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ARCHITECT		STATUS	
MERGE ARCHITECTURAL 600 N. 4TH STREET #112 PHOENIX, ARIZONA 85004 602-635-1581	REV.	-	-
	A	-	-
	B	-	-
	C	-	-
	D	-	-
MICRO MARKET TUCSON, ARIZONA		PLUMBING ROUGH IN PLAN	
Drawn by:		JBM	
Checked by:			
Date:		2/29/2024	
Sheet Number:		FS-2.1	



ARCHITECT	REV.	STATUS
MERGE ARCHITECTURAL. 600 N. 4TH STREET #112 PHOENIX, ARIZONA 85004 602-635-1581	<u>A</u>	-
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	<u>C</u>	-
	<u>D</u>	-
	<u>E</u>	-

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ARIZONA
RESTAURANT CONSULTING
7920 E. OAK STREET - SCOTTSDALE, ARIZONA 85257
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MICRO MARKET

TUCSON, ARIZONA

ELECTRICAL ROUGH IN PLAN

Drawn by: JBM

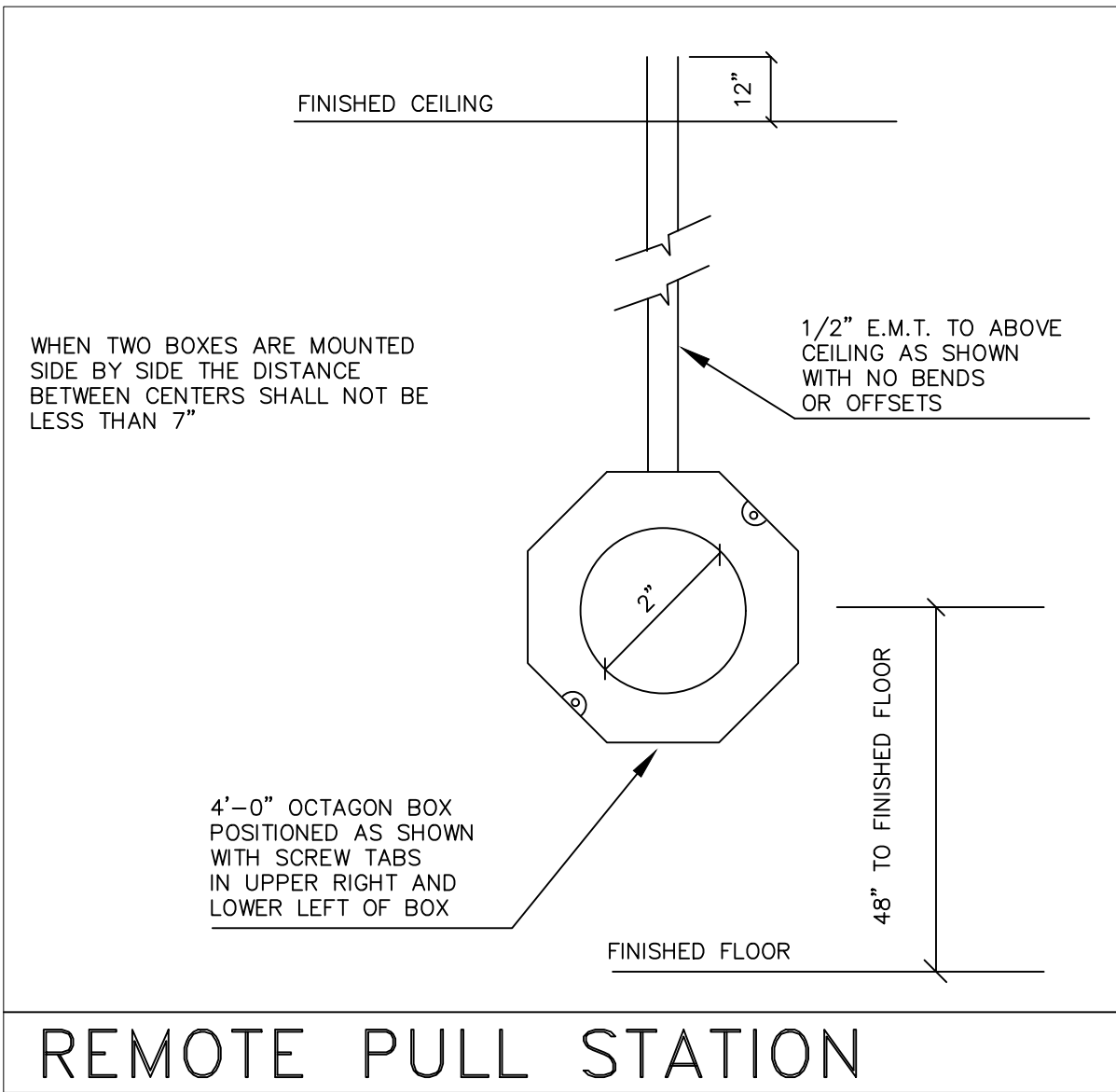
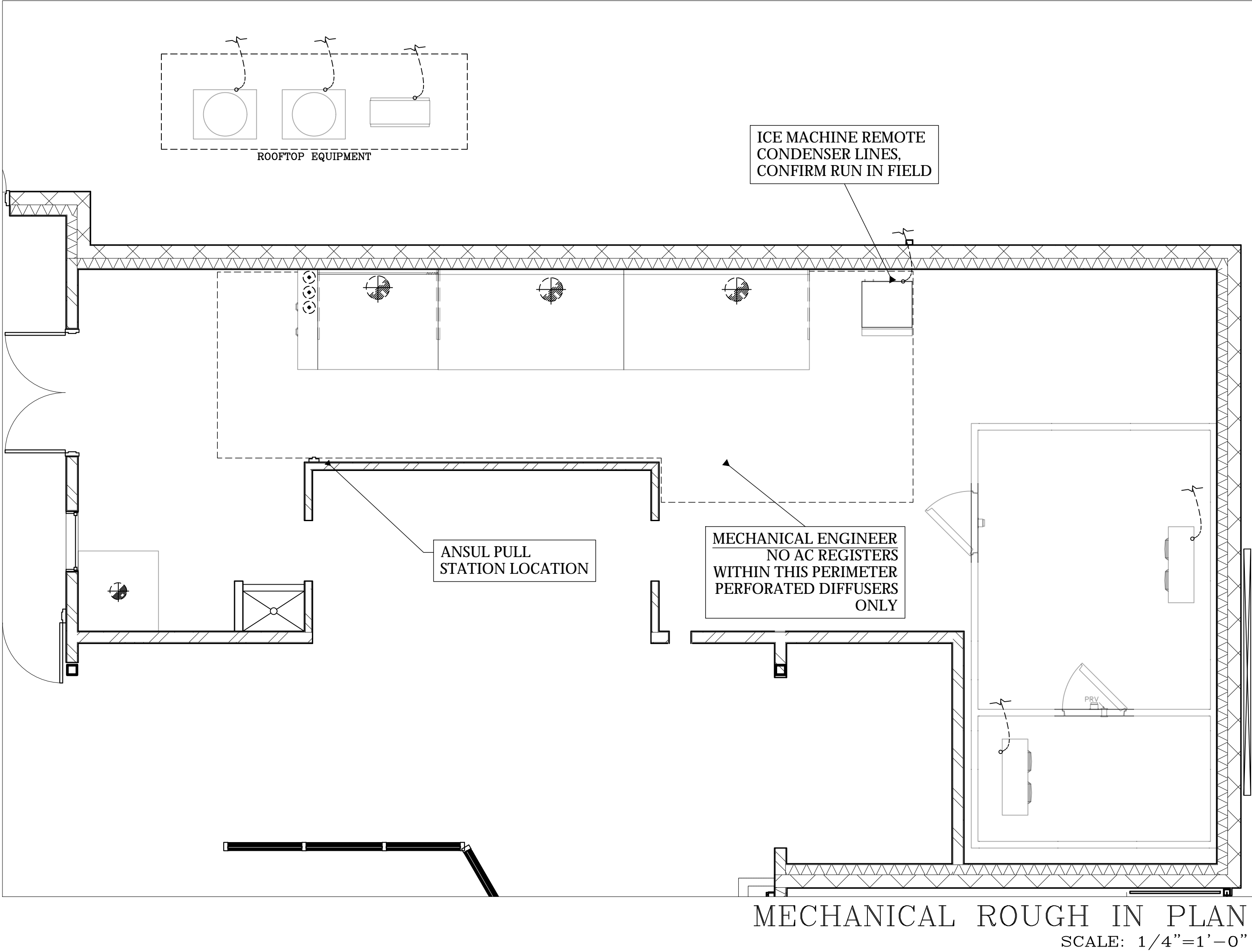
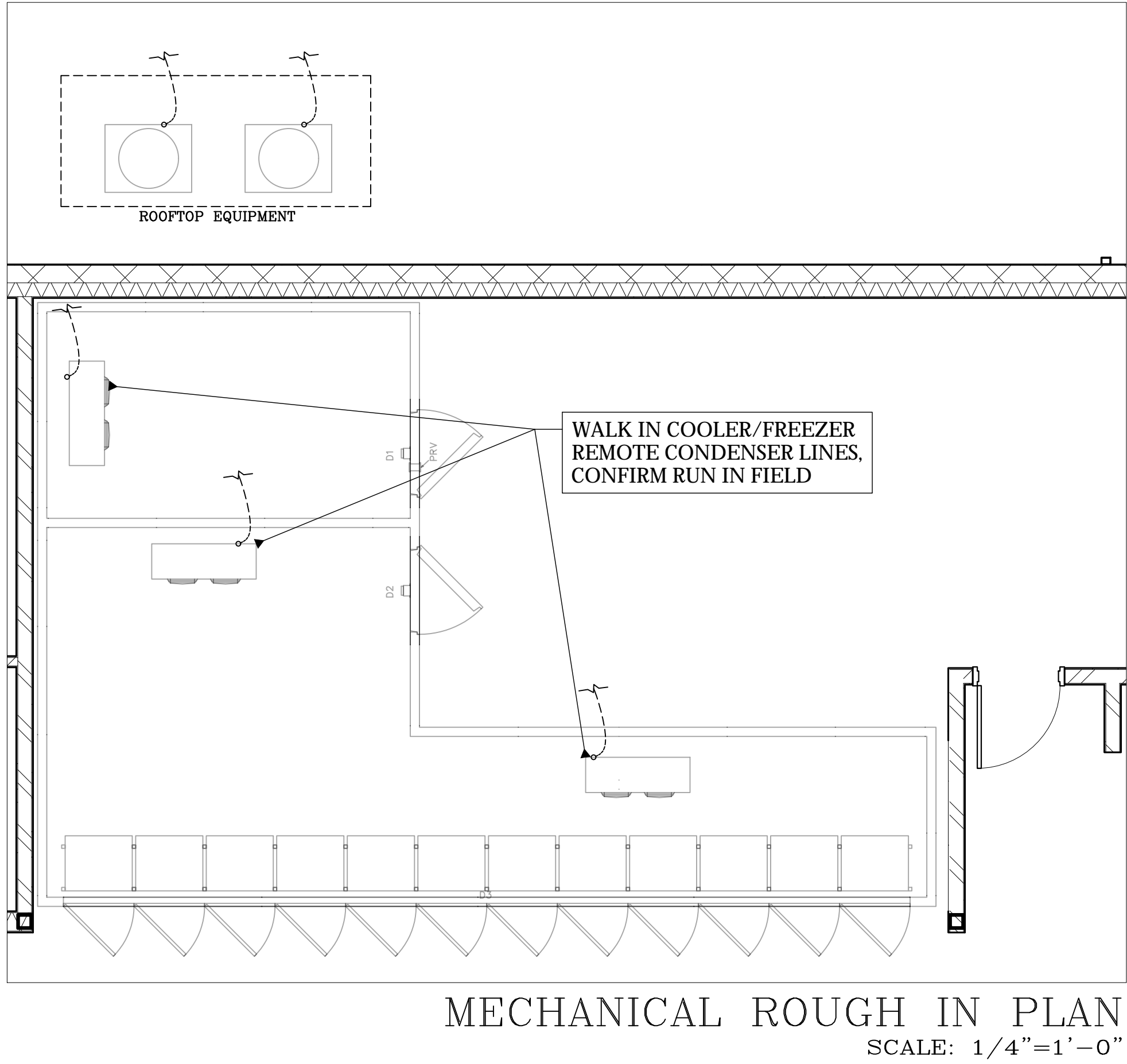
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Date:	2/29/2024
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Sheet Number:

FS-3.0

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- LEGEND — MECHANICAL CONNECTIONS**
NOT ALL SYMBOLS MAY BE USED
- [Symbol] FIRE SUPPRESSION PULL SWITCH, OCTAGON BOX TO BE SET INSIDE WALL WITH CONCEALED CONDUIT.
 - [Symbol] REMOTE CONDENSER LINE SET OUTGOING/INCOMING FROM KITCHEN TO ROOFTOP.
 - [Symbol] FLU EXHAUST CONNECTION POINT FOR WATER HEATER, INSTALLED BY PLUMBER
 - [Symbol] FIRE SUPPRESSION SYSTEM TANKS & CONTROLS
 - [Symbol] MAKE UP AIR DUCT RISER
 - [Symbol] GREASE DUCT RISER
 - [Symbol] AC DUCT RISER

- MECHANICAL SCOPE OF WORK**
- KEC TO PROVIDE:**
- RECEIVING OF EQUIPMENT DELIVERY ONSITE,
 - HOOD BOXES,
 - 20 GA. S/S WALL FLASHING UP TO 120" HIGH (CONFIRM WITH GC CODE REQUIREMENT ON HEIGHT) FROM 4" ABOVE FLOOR, END OF HOOD TO END OF HOOD AND ANY SIDE WALL(S) AROUND PERIMETER OF HOOD.
 - EXHAUST FAN(S) & ROOF CURB(S).
 - EVAP COOLER/MAKE UP AIR UNIT & ROOF CURB(S).
 - ELECTRICAL CONTROL PANEL W/ RELAYS & CONTACTORS.
 - RECEIVING OF ROOFTOP EQUIPMENT ONSITE, ONSITE STORAGE IF NECESSARY.
 - CRANE TO ROOFTOP.
 - CUTTING OF ROOF DECK & PLACEMENT OF CURBS, PATCHING OF ROOF.
 - GREASE DUCT/FIREWRAP & INSTALLATION,
 - MUA/AC DUCT & INSTALLATION
 - ANSUL SYSTEM PIPING, TANKS, PERMIT, INSTALLATION & FINAL TEST.
 - HANGING OF HOOD BOXES & INSTALLATION OF S/S WALL FLASHING.
 - PERFORMANCE CHECK OF SYSTEM AFTER HVAC START UP.
 - LOCATIONS FOR ROOF PENETRATIONS FOR REMOTE CONDENSERS WITH PVC CHASE.
 - PRESSURE TREATED 4"x4" WOOD FOR SETTING OF REMOTE CONDENSERS WHEN NECESSARY.
- GC/MECHANICAL CONTRACTOR TO PROVIDE:**
- MOUNTING OF ELECTRICAL CONTROLS (IF NECESSARY).
 - ALL FINAL ELECTRICAL & PLUMBING CONNECTIONS,
 - START UP AND BALANCE OF HOOD WITH AC.
 - CUTTING AND SEAL ROOF PENETRATIONS FOR REMOTE CONDENSER LINE CHASE - KEC PROVIDED ALUMNIMUM "GOOSENECK".
 - CONDENSER CURBS SHOULD THEY BE REQUIRED OVER 4"x4" WOOD BY KEC.



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ARCHITECT		REV.	STATUS	
MERGE ARCHITECTURAL 600 N. 4TH STREET #112 PHOENIX, ARIZONA 85004 602-635-1581		A	-	-
		B	-	-
		C	-	-
		D	-	-
		E	-	-
MICRO MARKET		TUCSON, ARIZONA		
MECHANICAL ROUGH IN PLAN		JBM		
Drawn by:		Checked by:		
Date:		2/29/2024		
Sheet Number:		FS-4.0		

HOOD INFORMATION – JOB#6599699

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						HOOD CONSTRUCTION	HOOD	CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL		SP	END TO END	ROW
1		6024 ND-2	CAPTIVEAIRE	6' 0"	700 DEG	I	EXTRA-HEAVY	300	1800			4"	14"	1800	1684	-0.854"	430 SS 100%	ALONE	ALONE
2		6024 ND-2	CAPTIVEAIRE	9' 3"	600 DEG	I	HEAVY	200	1850			4"	14"	1850	1731	-0.704"	430 SS 100%	LEFT	ALONE
3		6024 ND-2	CAPTIVEAIRE	9' 3"	600 DEG	I	HEAVY	200	1850			4"	14"	1850	1731	-0.704"	430 SS 100%	RIGHT	ALONE
4	Dish Hood	4824 VHB-G	CAPTIVEAIRE	4' 0"	700 DEG	II	N/A	150	600			4"	10"	600	1100	-0.090"	430 SS 100%	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)					LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL			SWITCHES
												TYPE	SIZE	MODEL #			QUANTITY
1		CAPTRATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	2	L55 SERIES E26	NO	LEFT	12"x60"x24"	CORE PROTECTION	0	SC-331110MA	1 LIGHT 1 FAN	YES	777 LBS
2		CAPTRATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO							YES	557 LBS
3		CAPTRATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO							YES	545 LBS
4	Dish Hood						0									NO	175 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 84.00" LONG 430 SS VERTICAL.
		INSULATION FOR TOP OF HOOD.
		INSULATION FOR BACK OF HOOD.
		WC-CORE PROTECTION.
		RIGHT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
2		LEFT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FIELD WRAPPER 18.00" HIGH FRONT, LEFT.
		BACKSPLASH 80.00" HIGH X 222.00" LONG 430 SS VERTICAL.
		STRUCTURAL FRONT PANEL.
		RISER SENSOR INSTALL 6IN PLEN.
		WC-CORE PROTECTION.
3		LEFT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FIELD WRAPPER 18.00" HIGH FRONT, RIGHT.
		RISER SENSOR INSTALL 6IN PLEN.
		WC-CORE PROTECTION.
		RIGHT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
4	Dish Hood	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT.

FOR QUESTIONS, EMAIL THE
Arizona Office
REGION 93
PHONE: (480) 926 - 6810
EMAIL: reg93@captiveaire.com

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

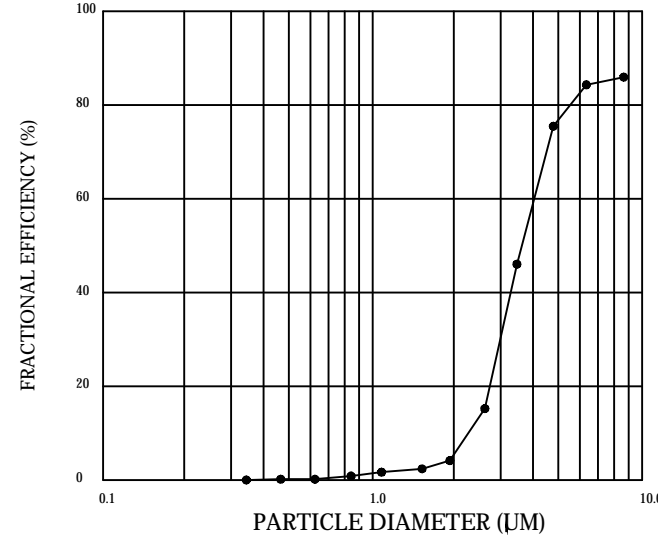
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

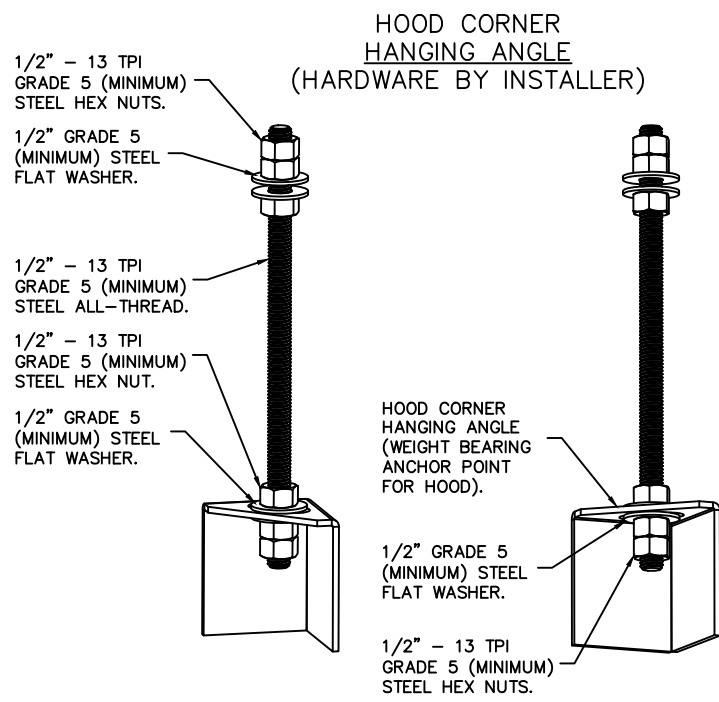
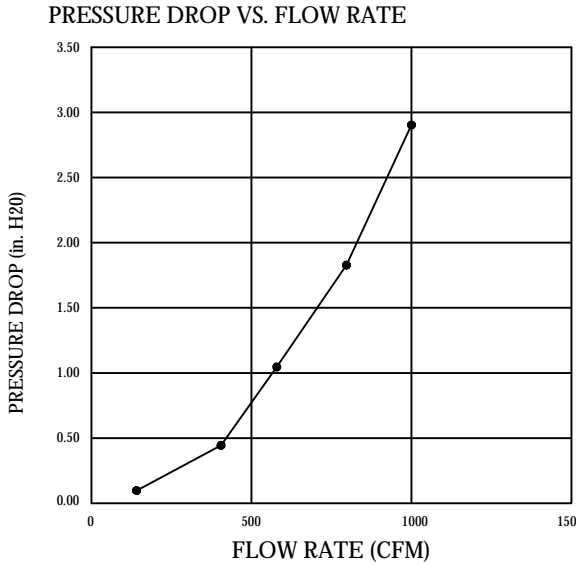
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER

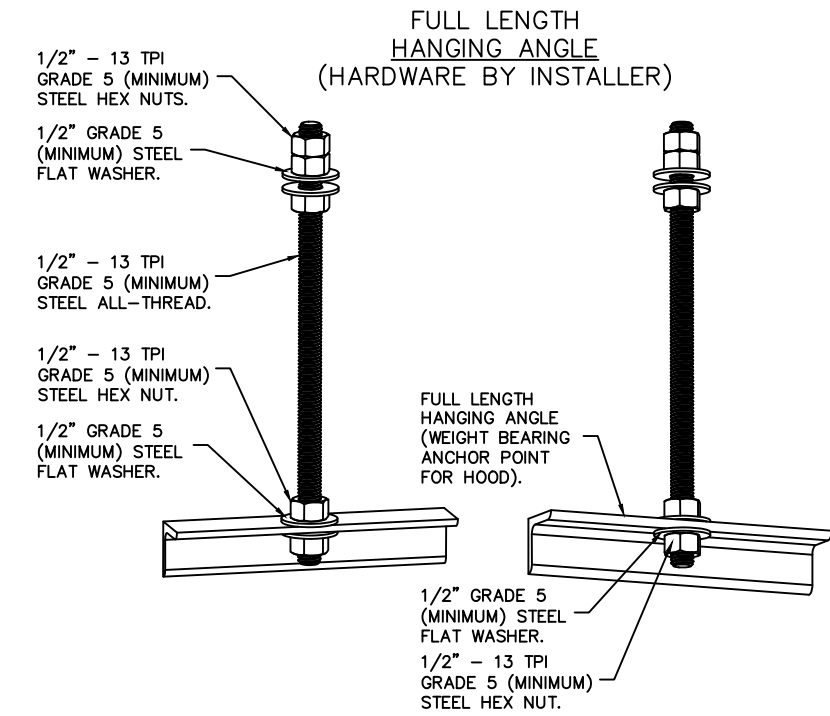


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-5649.



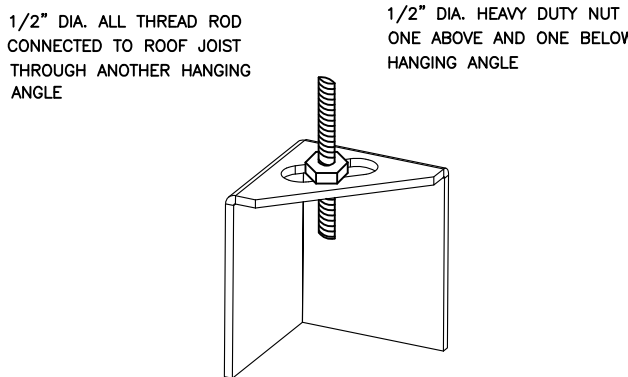
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ND-2 HANGING ANGLE DETAIL

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24"H)	DIM FROM FRONT (30"H)
CANOPY ND2	4.166"	2.246"	2.246"
ND2-PSP-F	4.166"	2.246"	2.246"
BACKSHELF 2B47BD	2.00"	14.25"	-
VHB/VHB-G	36"x36"	42"x42"	48"x48"
FRONT/BACK DIMS BY SIZE	2.246"	2.246"	2.246"

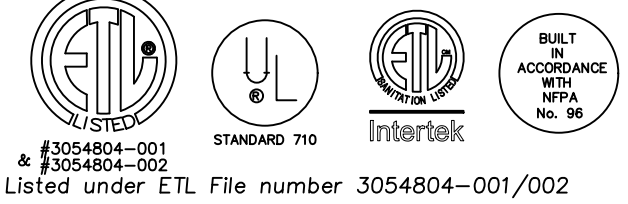
HANGING ANGLE LOCATIONS

EXHAUST CFM=LENGTH OF HOOD X CFM/IN.LFT. (LOAD)
SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED CFM
TOTAL DUCT AREA=144 X _____ FPM(C)
DUCT LENGTH= _____ TOTAL DUCT AREA
DUCT DEPTH _____

*CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM.

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:



BUILDING CODES

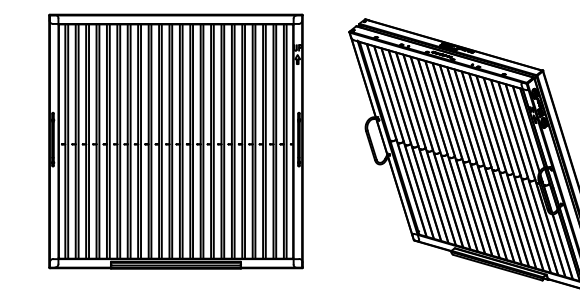
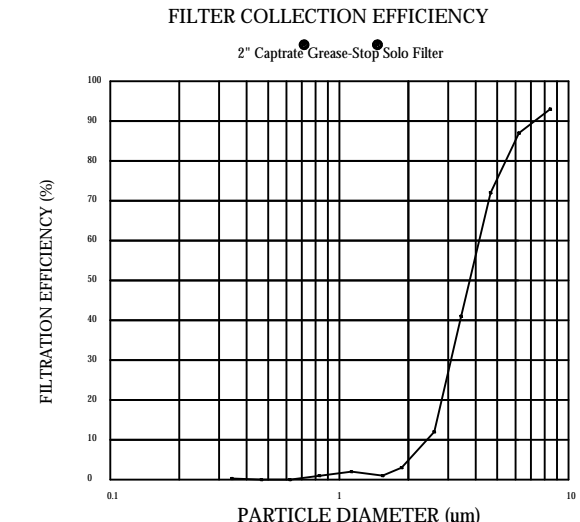
MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	1" INSULATED STANDOFF

CLEARANCE TO COMBUSTIBLES

- INSTALLATION
- ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
 - ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
 - HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
 - ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTOR'S PLANS.
 - COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE.
 - EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
 - ALL LIGHTS FIXTURE SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PROVIDED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
 - LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
 - SEISMIC RESTRAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
 - INSTALLING CONTRACTORS ASSUME ALL RELATED RESPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

- BALANCE
- KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
 - KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA.
 - RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.
- ADDITIONAL
- WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
 - SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

GENERAL NOTES



CaptiveAir Captrate Solo Filter
ETL Listed Grease Extracting Filters
Made From 430 Stainless Steel

FILTER DETAIL

REVISIONS

DESCRIPTION	DATE:

www.captiveaire.com

Arizona Office

18206 N 19th Ave, Ste 1A-1B, Phoenix, AZ 85023 PHONE: (480) 926- 6810 FAX: 877-192227 EMAIL: reg93@captiveaire.com

4081 Chepas Market – Tucson – FARS R2

TUCSON, AZ, 85705

DATE: 2/9/2024

DWG.#: 6599699

DRAWN BY:

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

MASTER DRAWING

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

VERIFY CEILING HEIGHT

____' - ____"

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	
YOUR TITLE _____	DATE _____

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ARIZONA

RESTAURANT CONSULTING

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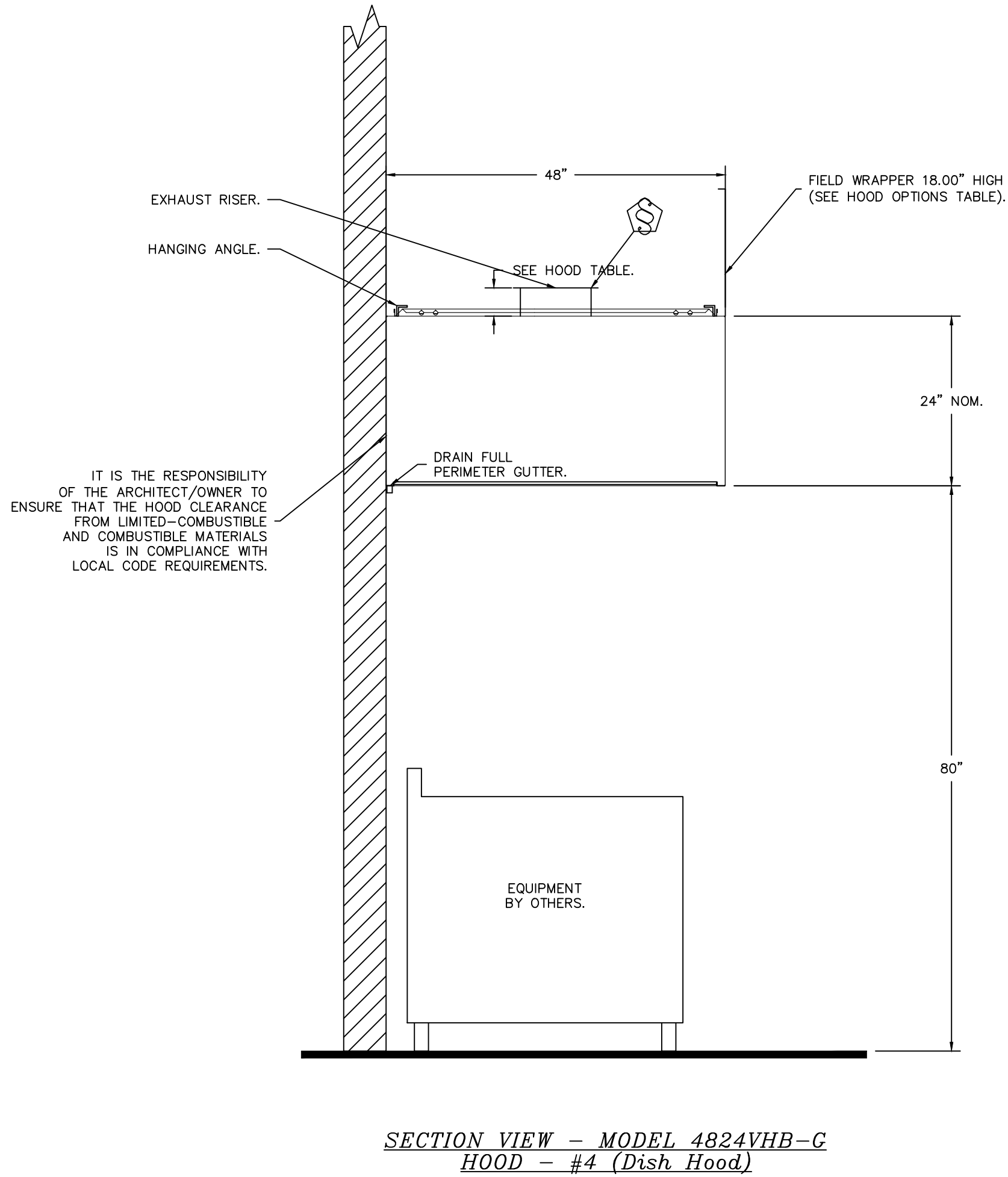
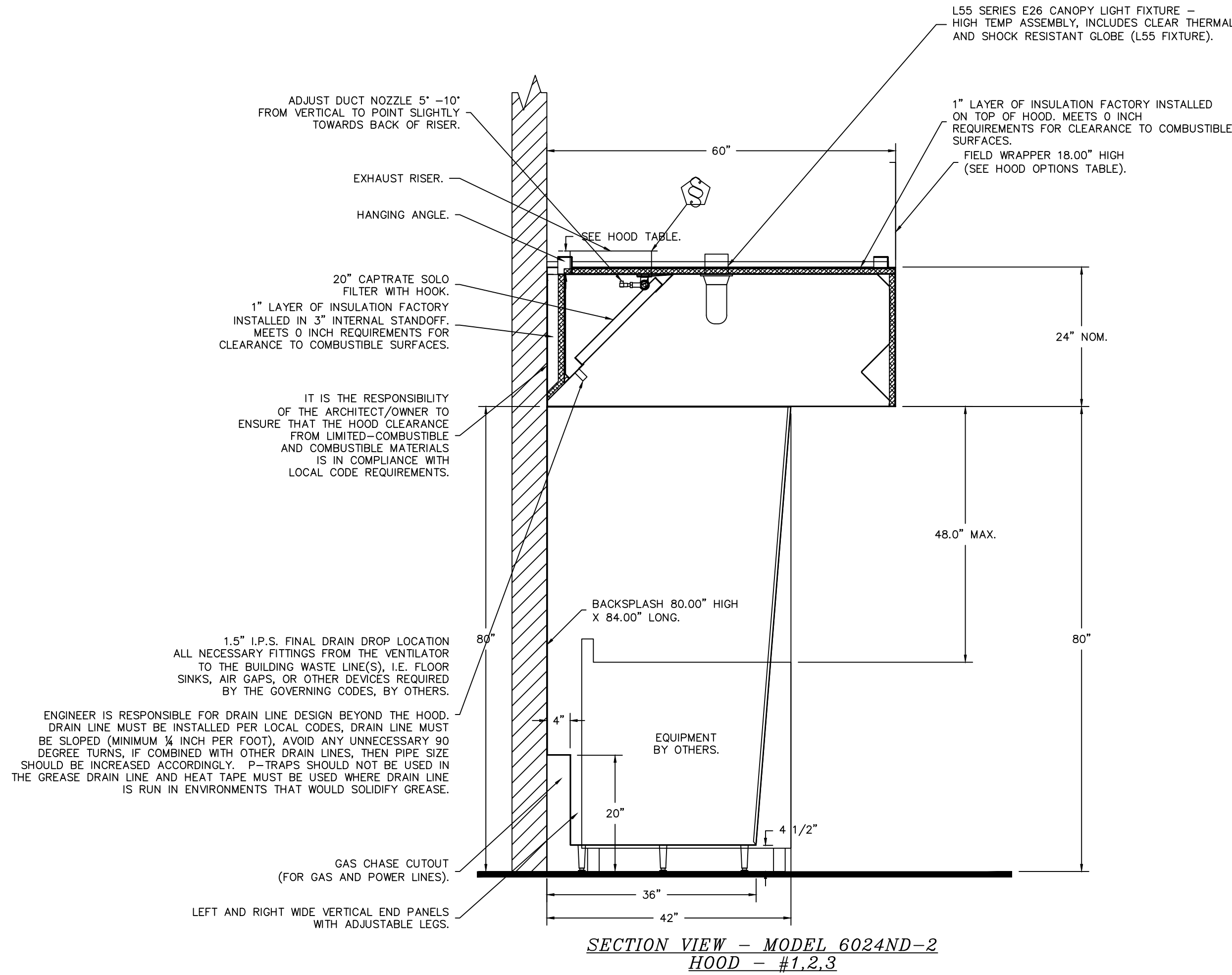
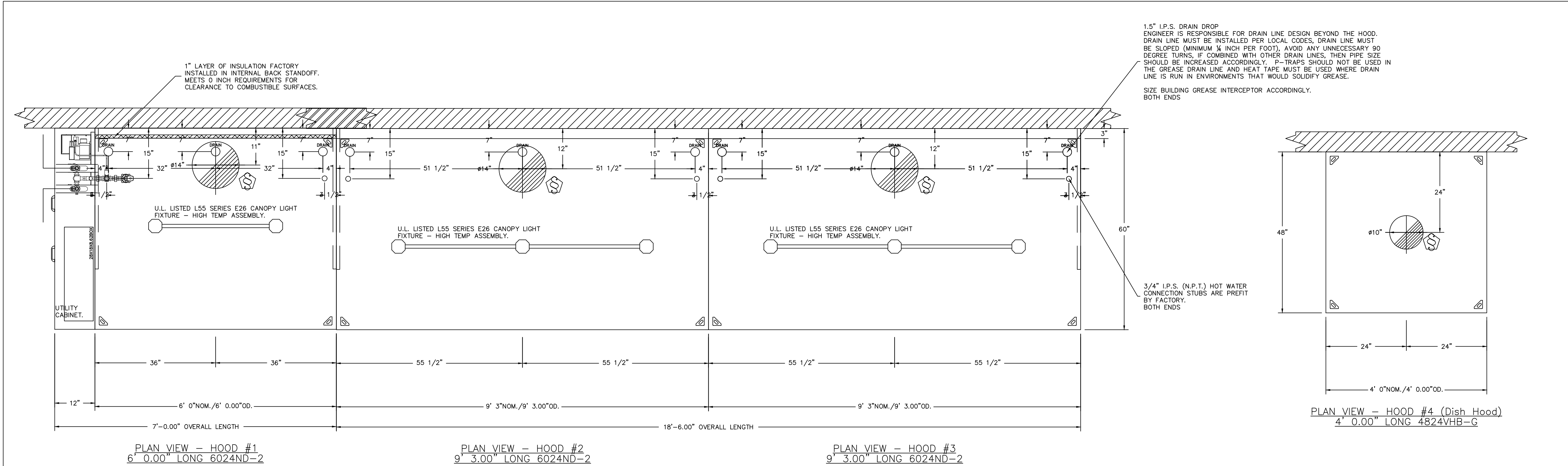
MICRO MARKET

TUCSON, ARIZONA

MECHANICAL SPECIFICATIONS

Drawn by:	TM
Checked by:	JBW
Date:	2/29/2024
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REVISIONS	
DESCRIPTION	DATE

CAPTIVE

Arizona Office
13206 N 19th Ave, Ste 1A-1B, Phoenix, AZ 85023 PHONE: (480) 926-6810 FAX: 8777192227 EMAIL: reg93@captivaire.com

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FIRE SYSTEM INFORMATION — JOB#6599699					
FIRE SYSTEM NO.	TAG	TYPE	SIZE	MAX FP	DESIGN TP
1		CORE PROTECTION	0	0	0
FIRE CABINET LEFT				INSTALLATION	
				LEFT HOOD 1	

GAS VALVE(S)			
FIRE SYSTEM NO.	TAG	TYPE	SUPPLIED BY
1		50 ELECTRICAL	TBD
		CAPTIVEAIRE SYSTEMS	

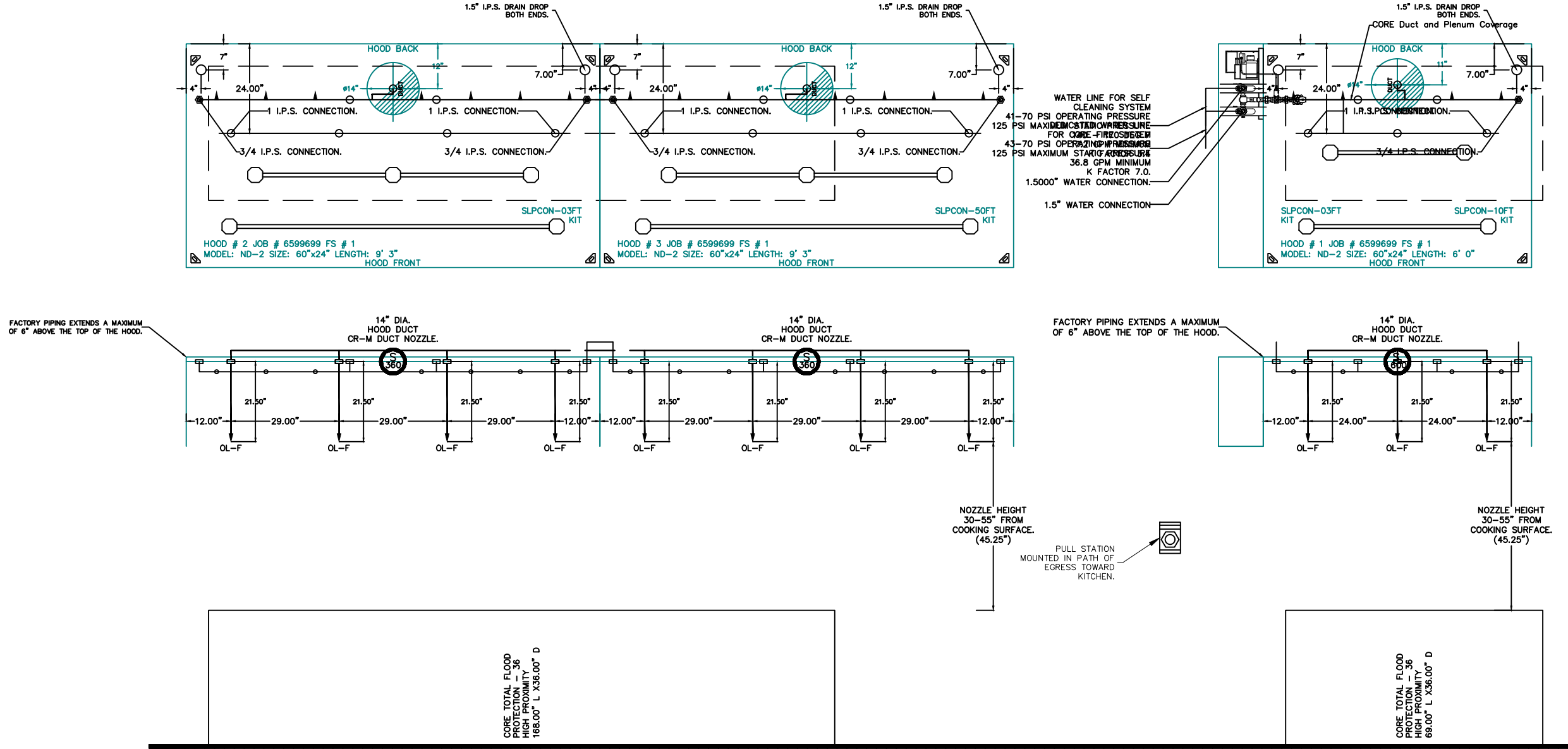
FIRE SYSTEM PARTS LIST KEY				
FIRE SYSTEM NO.	TAG	KEY NUMBER — PART DESCRIPTION	QTY BY FACTORY	QTY BY DESIG
1		34 — 34 — A0018652 24VDC OR 120VAC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT	1	0
		28 — 28 — 05A-3/8 OUNK SEAL — 3/8" (O.L.)	11	0
		16 — 16 — 0 — 0 — F NOZZLE — CORE PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE)	11	0
		18 — 18 — 72010 1/2" x 3/4" NPT MALE ADAPTER, VEGA	11	0
		0 — 0 — SLP00N-SOFT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UP TO 48' GAP. KIT CONTAINS 50 FEET OF BLACK MG WIRE, 50 FEET OF TAN MG WIRE, 50 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 — 0 — SLP00N-10FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UP TO 48' GAP. KIT CONTAINS 12 FEET OF BLACK MG WIRE, 12 FEET OF TAN MG WIRE, 12 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 — 0 — SLP00N-SOFT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UP TO 48' GAP. KIT CONTAINS 50 FEET OF BLACK MG WIRE, 50 FEET OF TAN MG WIRE, 50 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	2	0
		0 — 0 — A0028078 JUNCTION BOX FOR CORE PROTECTION MANUAL PULL STATION, 1.5" DEEP BACK BOX, BLUE	1	0
		0 — 0 — 84787 1" x 1/2" x 1" PROGRESS TEE, USED IN APPLIANCE SPRAY BAR, VEGA	11	0
		0 — 0 — 79245 1" x 1" NPT PROGRESS FEMALE ADAPTER, VEGA	6	0
		0 — 0 — 79245 1" x 1" NPT PROGRESS MALE ADAPTER, VEGA	6	0
		0 — 0 — 77412 1" PROGRESS TEE, VEGA	1	0
		0 — 0 — 77027 1" PROGRESS 90 DEG ELBOW, VEGA	1	0
		0 — 0 — 44280287 1" BRASS PLUG	6	0
		0 — 0 — 32-00000 OUNK SEAL — 1/2" (O.L.)	3	0
		0 — 0 — 12-H28021-12144-0T-600 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 400°F.	1	0
		0 — 0 — 12-F28021-12144-0T-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F.	2	0

CORE APPLIANCE PIPING WATER FLOW SUMMARY			
PIPE DIAMETER	MINIMUM FLOW RATE (GPM)	MAXIMUM FLOW RATE (GPM)	PRESSURE DROP (PSI)
FIELD PIPING/DUCT RUN BETWEEN HOODS/DUCT RUN	1.5	36.8	10.00
HOOD/DUCT RUN INTERNAL PIPING	0.75	17.2	33

SELF CLEANING WATER FLOW SUMMARY			
PIPE DIAMETER	MINIMUM FLOW RATE (GPM)	MAXIMUM FLOW RATE (GPM)	PRESSURE DROP (PSI)
FIELD PIPING/DUCT RUN BETWEEN HOODS/DUCT RUN	1.5000	11.2	30.0000
HOOD/DUCT RUN INTERNAL PIPING	0.75	17.2	30

TOTAL SYSTEM INLET REQUIREMENTS			
MINIMUM FLOW RATE (GPM)	MAXIMUM FLOW RATE (GPM)	MINIMUM PRESSURE (PSI)	MAXIMUM PRESSURE (PSI)
TOTAL CORE INLET REQUIREMENTS	26.8	43	790
TOTAL SELF-CLEANING INLET REQUIREMENTS	3.2	41	

* OPERATING PRESSURE RANGE AT CORE PANEL GAUGE IS 43 TO 75 PSIG.
* MAXIMUM STATIC PRESSURE IS 100 PSIG.
* OPERATING PRESSURE RANGE AT SELF-CLEANING PANEL GAUGE IS 41 TO 75 PSIG.
* MAXIMUM STATIC PRESSURE IS 100 PSIG.
* HOT WATER TEMPERATURE RANGE FOR SELF-CLEANING 140-170°F.

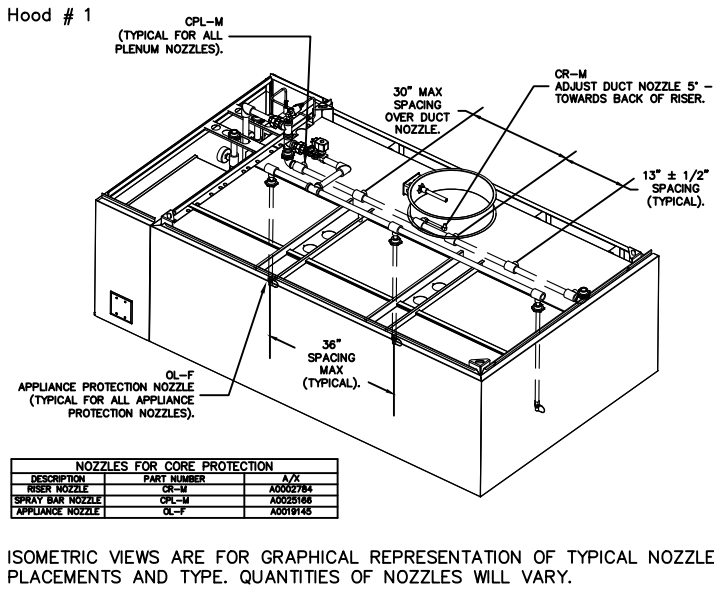


NOTES

- FIELD PIPE DROPS AS SHOWN
- ELBOWS, TEES, AND NOZZLES SUPPLIED BY GAS
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE. NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
- CORE / SELF CLEANING (UNITED STATES) — US PATENT 7963282 B2.
- CORE / SELF CLEANING (EUROPE) — EP PATENT 2274069 A1.
- CORE SUPERVISION — US PATENT 8570834 B1.
- CORE ELECTRICAL — US PATENT 8610601 B2.
- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS
- OL-M NOZZLE PART NUMBER REPLACES 1/4TTA-TPH30N-CP1325
- OL-P NOZZLE PART NUMBER REPLACES 1/4TTA-TG-4-3W
- MC-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10T020-SS

JOB # 6599699
JOB NAME: 4081 CHEPAS MARKET — TUCSON — FARS R2.

SYSTEM SIZE: CORE
HOOD # 1 6' 0.00" LONG x 60" WIDE x 24" HIGH.
HOOD # 2 9' 3.00" LONG x 60" WIDE x 24" HIGH.
HOOD # 3 2' 9' 3.00" LONG x 60" WIDE x 24" HIGH.
HOOD # 4 2' 9' 3.00" LONG x 60" WIDE x 24" HIGH.
HOOD # 5 2' 9' 3.00" LONG x 60" WIDE x 24" HIGH.
HOOD # 6 2' 9' 3.00" LONG x 60" WIDE x 24" HIGH.
HOOD # 7 2' 9' 3.00" LONG x 60" WIDE x 24" HIGH.
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HOOD # 99 2' 9' 3.00" LONG x 60" WIDE x 24" HIGH.
HOOD # 100 2' 9' 3.00" LONG x 60" WIDE x 24" HIGH.



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REVISIONS

DESCRIPTION	DATE:
Δ	
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Δ	
Δ	
Δ	

CAPTIVEAIRE

Arizona Office

18206 N 19th Ave, Ste 1A-1B, Phoenix, AZ 85023 PHONE: (480) 926 - 6810 FAX: 8777192227 EMAIL: reg95@captivaire.com

www.captivaire.com

4081 Chapas Market — Tucson — FARS R2

TUCSON, AZ, 85705

DATE: 2/9/2024

DWG. #: 6599699

DRAWN BY:

SCALE: 3/8" = 1'-0"

MASTER DRAWING

REGISTERED ARCHITECT

CERTIFICATE NO. 45961

CARLOS ANTONIO MURRIE A

2024

2/29/2024

Signature

Seal

MICRO MARKET TUCSON, ARIZONA MECHANICAL SPECIFICATIONS	STATUS									
		REV.	Δ	Δ	Δ	Δ				
		ARCHITECT	MERGE ARCHITECTURAL 600 N. 4TH STREET #112 PHOENIX, ARIZONA 85004 602-635-1581							
		AZ★RC ARIZONA RESTAURANT CONSULTING 7920 E. OAK STREET - SCOTTSDALE, ARIZONA 85257 602.699.5131 JUSTIN@AZRESTAURANTCONSULTING.COM								
		Drawn by: TM Checked by: JBM Date: 2/29/2024 Sheet Number:								

FS-4.3

DOAS/RTU FAN SCHEDULE - JQB#659699																																				
FAN INFORMATION										ELECTRICAL INFORMATION						COOLING INFORMATION						REHEAT INFORMATION						GAS HEAT INFORMATION								NOTES
FAN UNIT NO.	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MCCP	OUTSIDE AIR DB	WE	LEAVING AIR DB	WE	DP	TOTAL CAPACITY	SENS.	EER	SMRE	DISCHARGE DB	WE	DESIRED	MAX	CAPACITY	MOISTURE REMOVAL RATE	GAS TYPE	INPUT RTU#	OUTPUT RTU#	TEMP RISE	REQUIRED INPUT NO.	
1	RTU / PARAGON	1	CASRTU-1400-24-20T	CAPTIVEAIRE	24MF-3-RTU	0	4500	4500	2790	0.500	3.00	3	208	109.7A	110A	115.0°F	76.0°F	61.3°F	57.2°F	54.8°F	264.0 MBH	224.4 MBH	18.2	6.0	70.0°F	60.8°F	40 MBH	129.6 MBH	36.1 LBS/HR	NATURAL	33101I	26811R	56°F	7 IN. W.C. - 14 IN. W.C.		1,2,3,4,5,6,7,8,9,10,11,12,13,14
NOTES:																																				
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL CAPTIVATOR, NO STAGED SCROLL NOT AN APPROVED EQUAL																																				
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE																																				
3. INTEGRATED W/ WALL CONNECTION BY MANUFACTURER																																				
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE																																				
5. EC MOTOR CONDENSING FANS																																				
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE																																				
7. SUCTON LINE ACCUMULATOR																																				
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER																																				
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)																																				
10. 2" EXTERIOR DUAL-WALL INSULATION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 1/4IN BASE																																				
11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP																																				
12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE																																				
13. FULLY MODULATING HOT GAS REHEAT																																				
14. DOWN DISCHARGE/NO RETURN																																				

FAN #1 USB180-8M - EXHAUST FAN (DEF. 1)

TOP VIEW

37 1/2" 35" 25 1/4"

SIDE VIEW

35" 19 1/2" 24" 42 1/8" 28 3/8" 25" 28 1/4" 1 1/8" SHAFT DIA. *OUTLET NOTES. 20" *INLET NOTES. 2" DRAIN. 4.125" 14 5/8" 22" 40 5/8" 7.25" 18 1/4" 12 3/4" 31 7/8" 37 1/2"

FRONT VIEW

10" 36" SUPPORT RAILS

(6) ISOLATORS = USB18 THRU 36.

CURB ASSEMBLIES					
NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF 1	25 LBS	RAIL	4.000"W x 48.000" L x 10.000" COMES AS A SET OF 2.
2	# 2	KEF 2	43 LBS	CURB	26.500"W x 26.500"L x 20.000" VENTED HINGED.
3	# 3	KEF 3	43 LBS	CURB	26.500"W x 26.500"L x 20.000" VENTED HINGED.
4	# 4	DISH FAN	31 LBS	CURB	19.500"W x 19.500"L x 20.000" VENTED HINGED.
5	# 5	RTU / PARAGON	104 LBS	CURB	59.500"W x 91.000"L x 14.000" INSULATED.

INLET/OUTLET NOTES:
LENGTH OF THE STRAIGHT DUCT ON THE INLET AND OUTLET TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.

UNIT PLAN VIEW CORNER WEIGHTS:

72 LBS

147 LBS

105 LBS

← INLET

CORNER WEIGHTS ARE CALCULATED BASED ON VERTICAL DISCHARGE. SUPPORT DUCT PROPERLY BEFORE FAN TO ENSURE CORNER WEIGHTS ARE NOT AFFECTED.

NORMAL TEMPERATURE TEST DIRECT DRIVE EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETRIMENTAL EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

Technical drawing of a DuRoi Exhaust Fan, showing side and top views with dimensions.

Side View Dimensions:

- Top width: 37 3/8"
- Left height: 33 1/4"
- Right height: 22 5/8"
- Base width: 16 1/2"
- Base depth: 28"
- Base width (inner): 28"
- Label: GREASE DRAIN.
- Label: DUCTWORK BETWEEN EXHAUST RISER OR AND FAN (BY OTHERS)

Top View Dimensions:

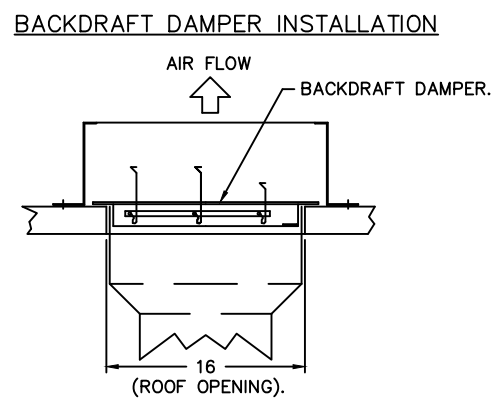
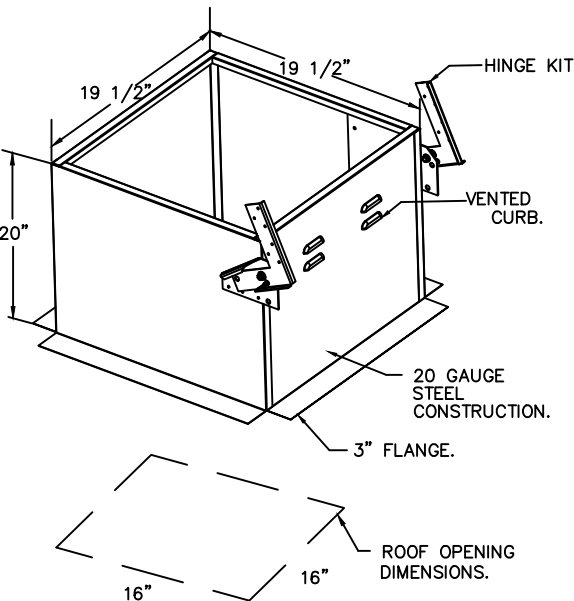
- Top width: 37 3/8"
- Top depth: 28"

FEATURES:

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

OPTIONS

- ECM WIRING PACKAGE - EXHAUST -
- MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCO), CCW ROTATION.
- SCF - 1 1/2" BIRD SCREEN.
- 1 1/2" BDD DAMPER.
- 2 YEAR PARTS WARRANTY.

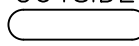


REGISTERED ARCHITECT
 CERTIFICATE NO.
 45961
 CARLOS
 ANTONIO
 MURRIETA
 Date signed 07/29/24
 ARIZONA U.S.A.

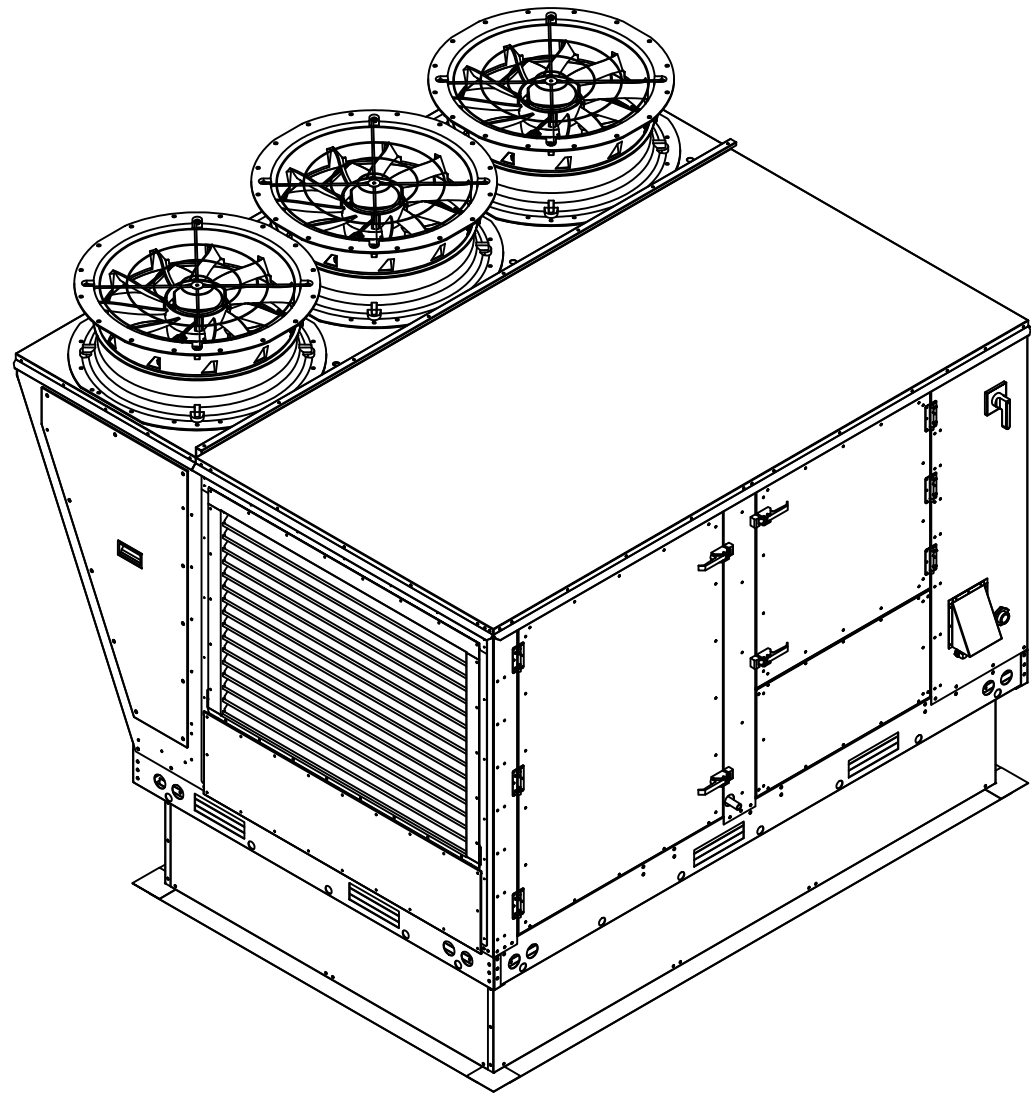
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FAN #5 CASRTU3-1,400-24MF-20T – HEATER (RTU / PARAGON).

- NOTES:
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
 -  DENOTES CORNER WEIGHT.
 - ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
 - CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 21.5" x 39".



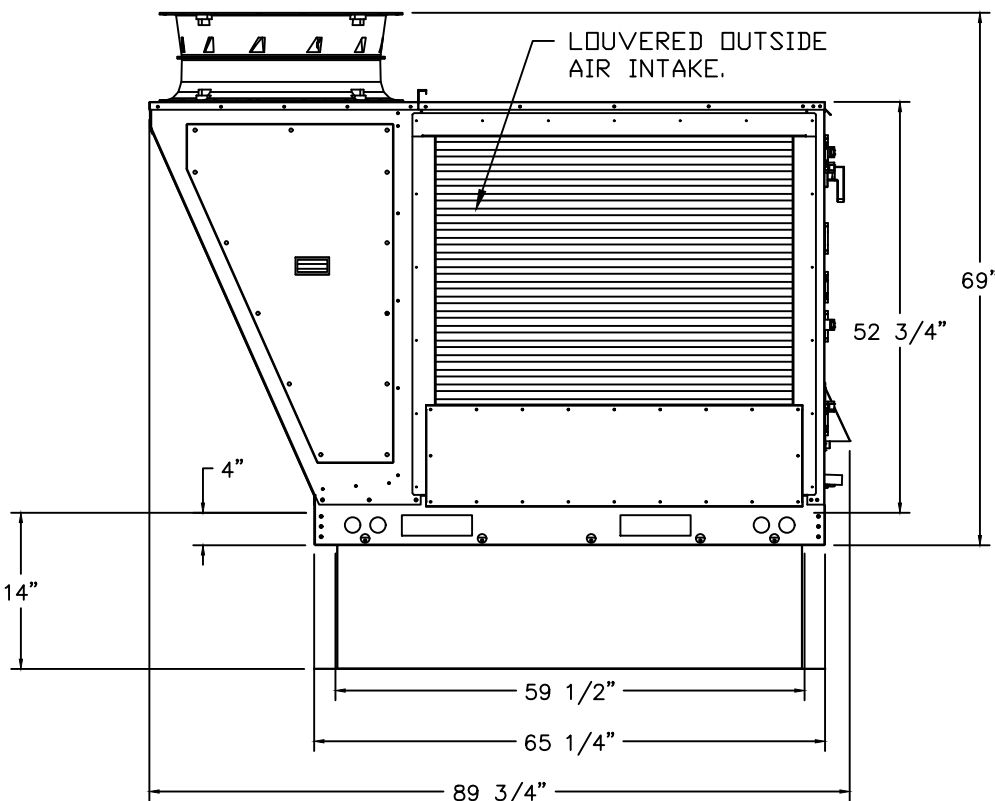
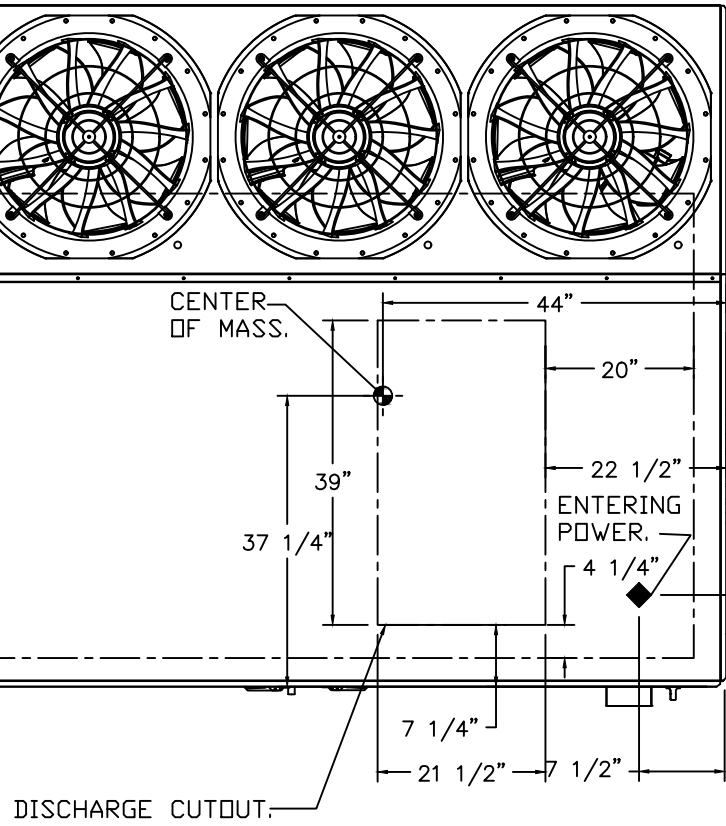
CURB OUTLINE
91"x59 1/2".

734 LBS

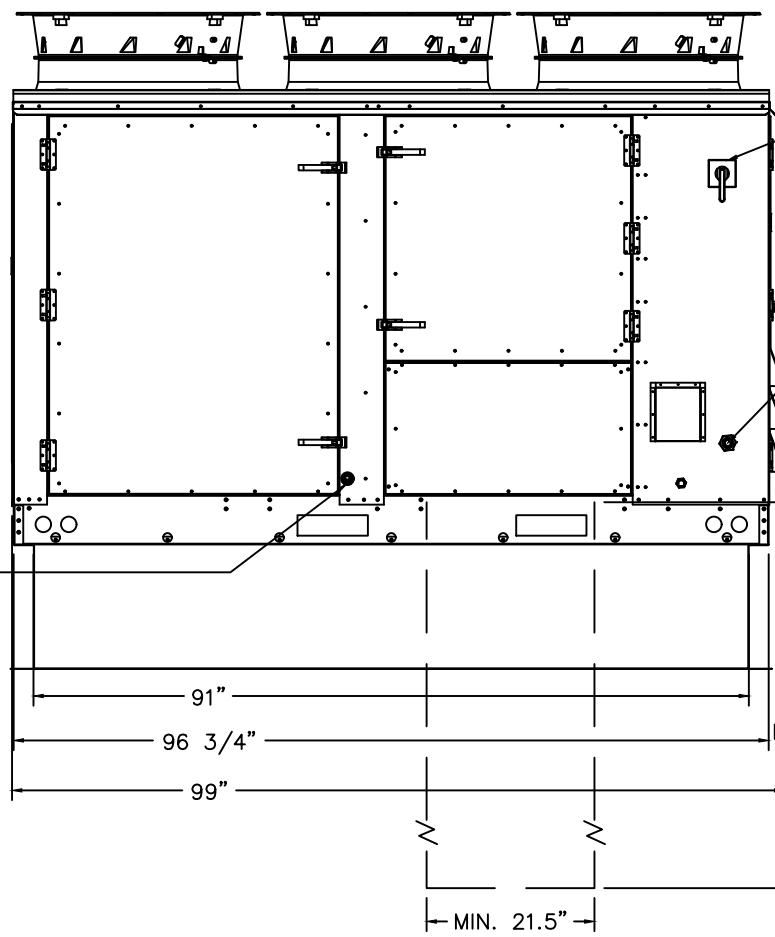
691 LBS

527 LBS

638 LBS



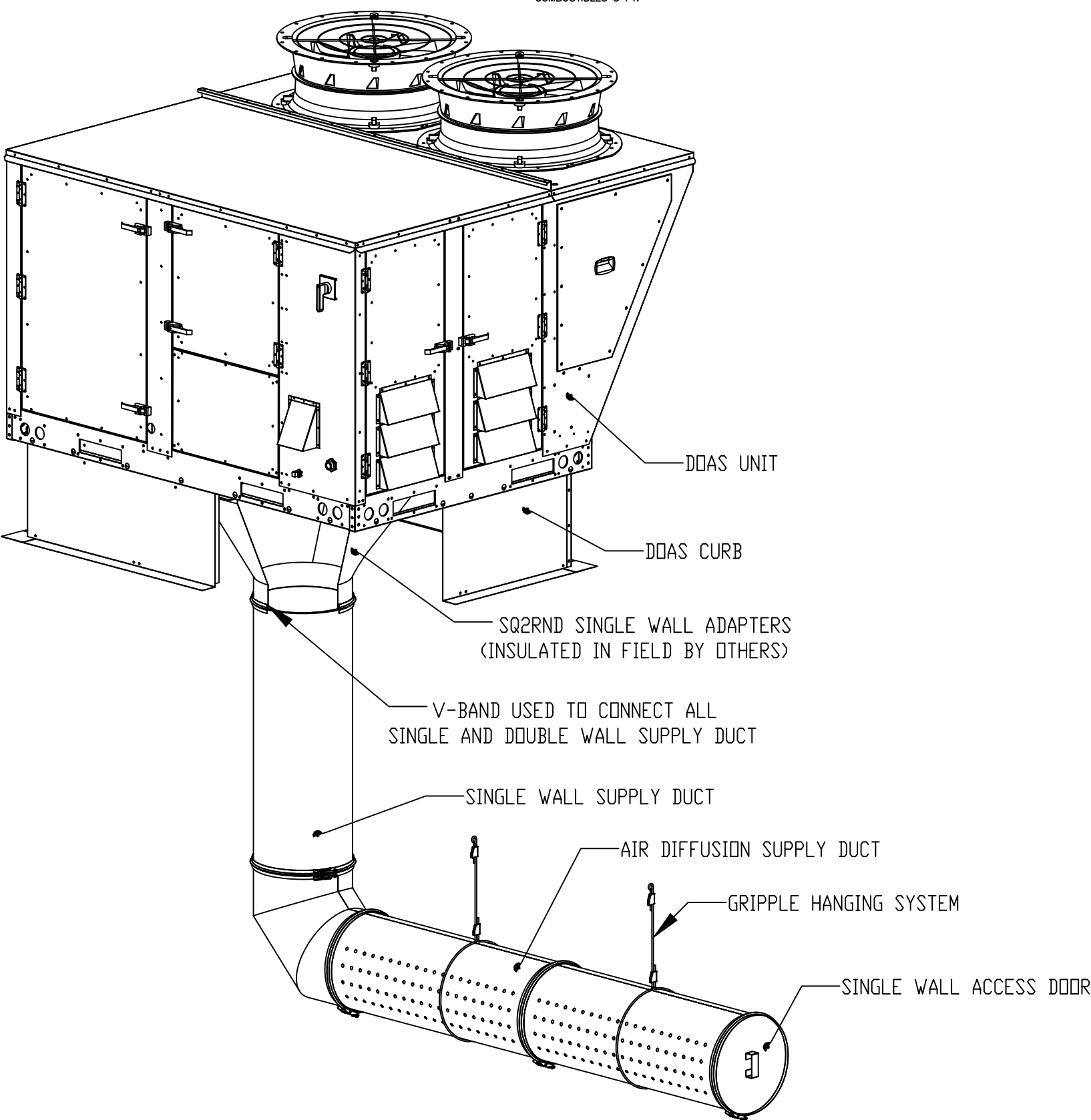
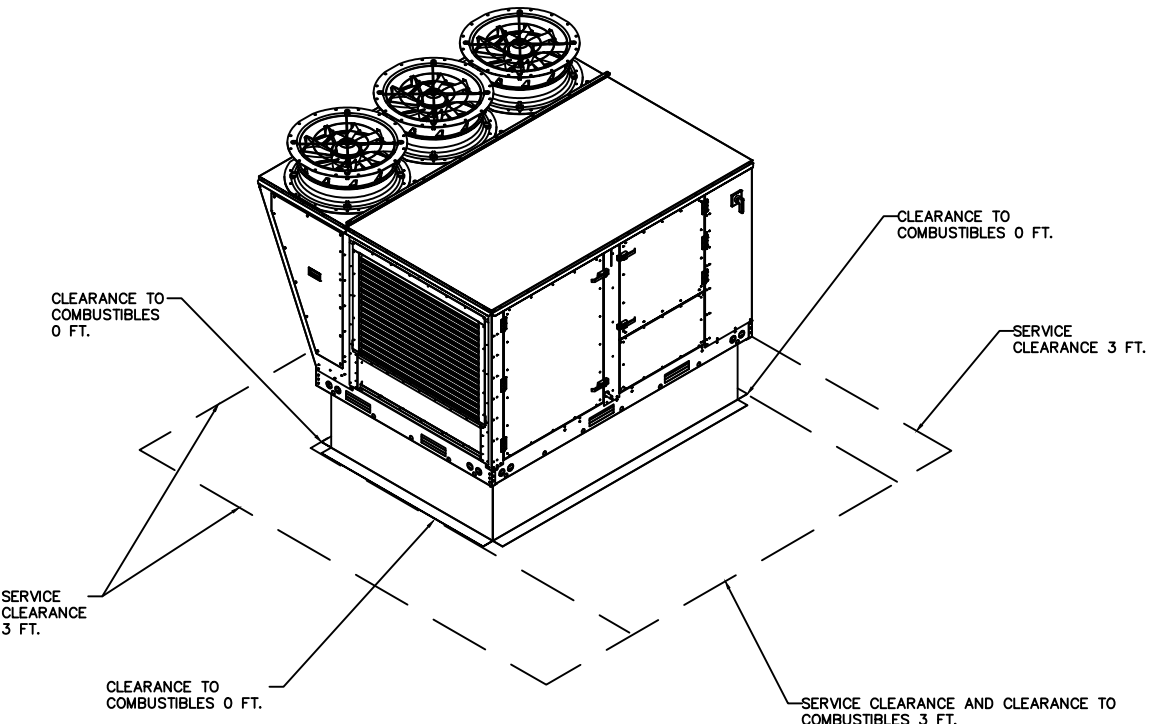
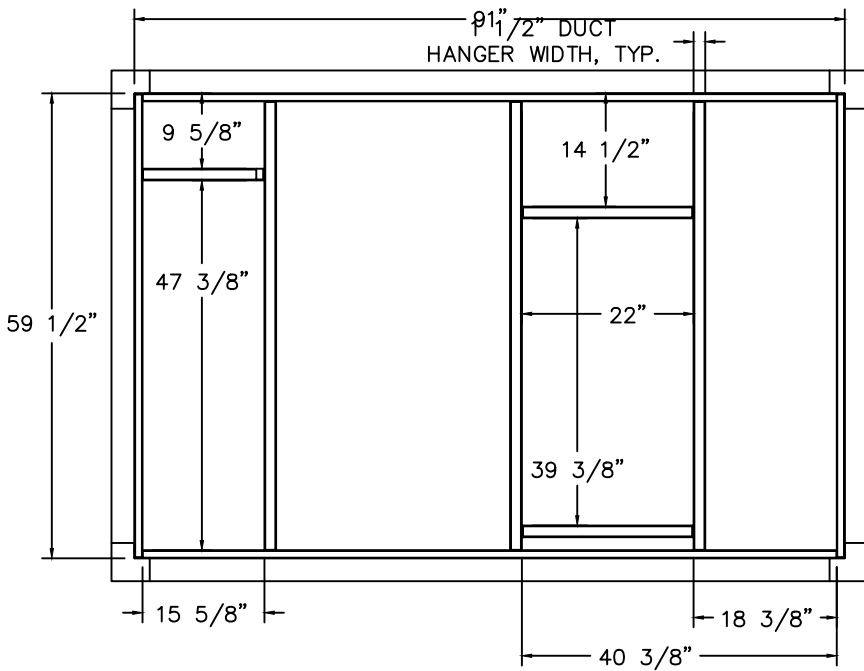
1" NPT SS EVAPORATOR
DRAIN (TRAP REQ'D).
4" MINIMUM TRAP DEPTH.



3/4" NPT SS GAS CONNECTION.

MINIMUM
STRAIGHT
DUCT
PER AMCA*

MIN. 21.5"



AIR DIFFUSION SUPPLY DUCT SPECIFICATIONS:
PROVIDE AIR DIFFUSION SUPPLY DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL DW-S0(HC), DW-S90(HC), & DW-S180(HC). THREE DISTINCT HOLE PATTERN OPTIONS TO COVER A VARIETY OF CEILING HEIGHTS. NO ADDITIONAL DIFFUSERS REQUIRED, AS THE DUCT ITSELF PROVIDES AIR DIFFUSION. MADE OF HIGH QUALITY STAINLESS STEEL DESIGNED TO LAST 20+ YEARS. HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 24 GAUGE, 430 SS – 5" THRU 24". HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 20 GAUGE, 430 SS – 26" THRU 36". QUICK ONSITE ASSEMBLY USING EPDM GASKETS & UNIVERSAL V-BANDS. DOUBLE WALL SUPPLY DUCT AVAILABLE FOR INTERIOR AND EXTERIOR SPACES, EITHER CONDITIONED OR UNCONDITIONED. DOUBLE WALL SUPPLY DUCT AVAILABLE IN DW-1S, DW-2S, & DW-3S TO MEET SPECIFIC REGIONAL "R" VALUE REQUIREMENTS.

Insulation R-Value Recommendations		
Supply Duct Type	Minimum R-value	Space Type
Single Wall – S & –HC	N/A	Conditioned Space Only
Double Wall – 1S	R-4	Unconditioned Interior Space Only
Double Wall – 2S	R-8	Unconditioned Space Climate Zones 1-4
Double Wall – 3S	R-12	Unconditioned Space Climate Zones 5-8

DOUBLE WALL SUPPLY DUCT IS INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL. AIR DIFFUSION SUPPLY DUCT COMPLIES WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS) BEST PRACTICES. POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTION TO DISCHARGE, SEE NFPA 13, TABLE 8.12.5.1.1.

REVISIONS	
DESCRIPTION	DATE

CAPTIVEAIRE
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Arizona Office
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4081 Chepas Market – Tucson – FARS R2
TUCSON, AZ, 85705

DATE: 2/9/2024

DWG.#:
6599699

DRAWN
BY:

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

MASTER DRAWING



STATUS

REV.

ARCHITECT

MERGE ARCHITECTURAL
600 N. 4TH STREET #112
PHOENIX, ARIZONA 85004
602-635-1581

AZ★RC
ARIZONA
RESTAURANT CONSULTING
7920 E. OAK STREET - SCOTTSDALE, ARIZONA 85257
602.699.5131
JUSTIN@AZRESTAURANTCONSULTING.COM

MICRO MARKET
TUCSON, ARIZONA

MECHANICAL SPECIFICATIONS

Drawn by: TM

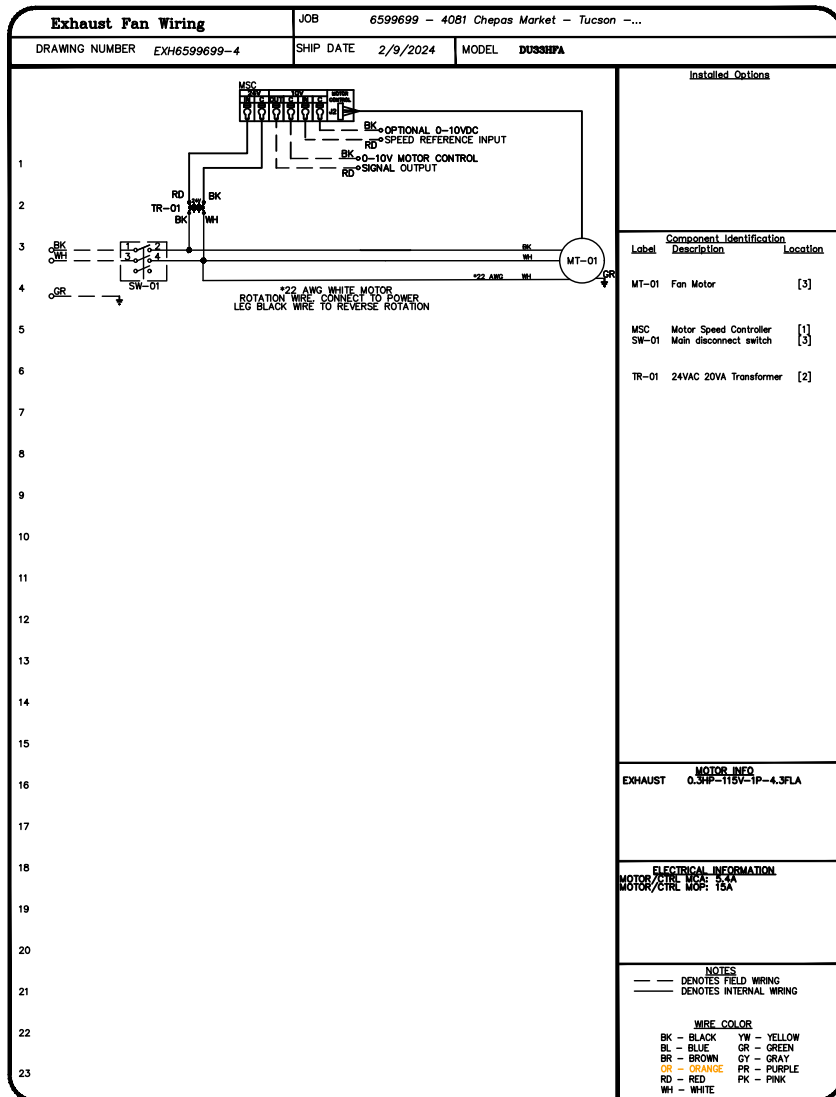
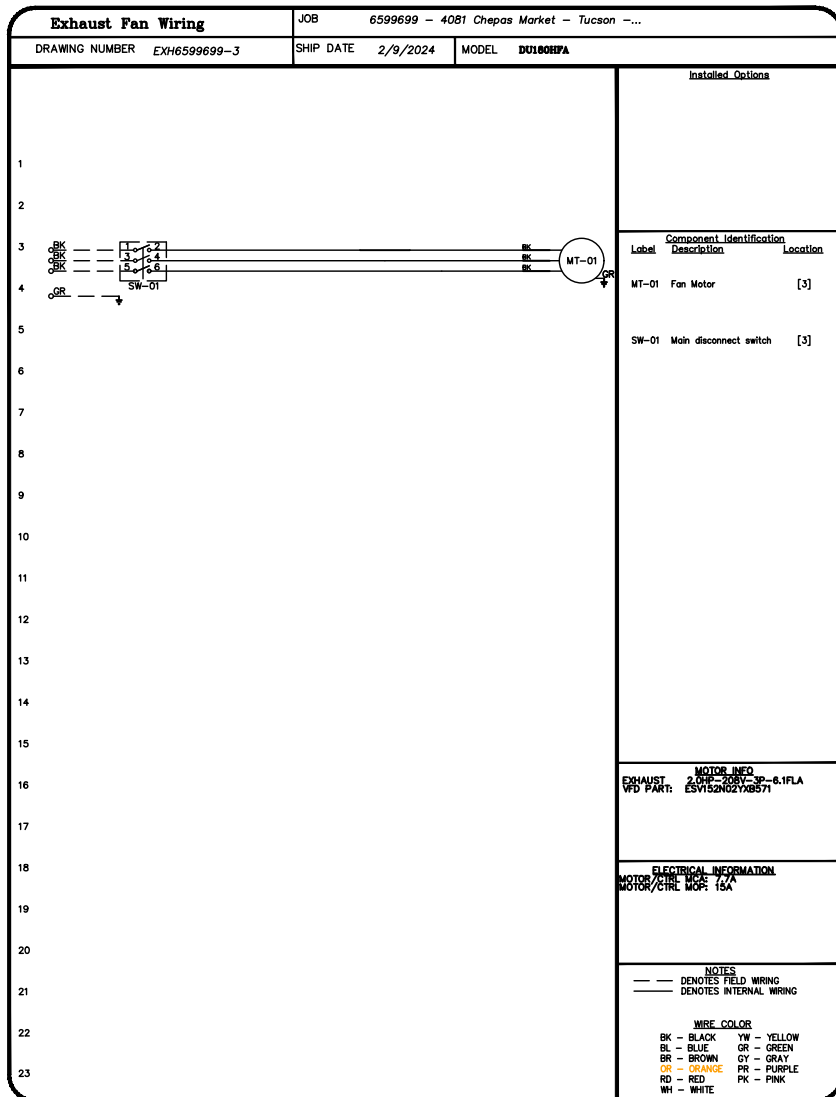
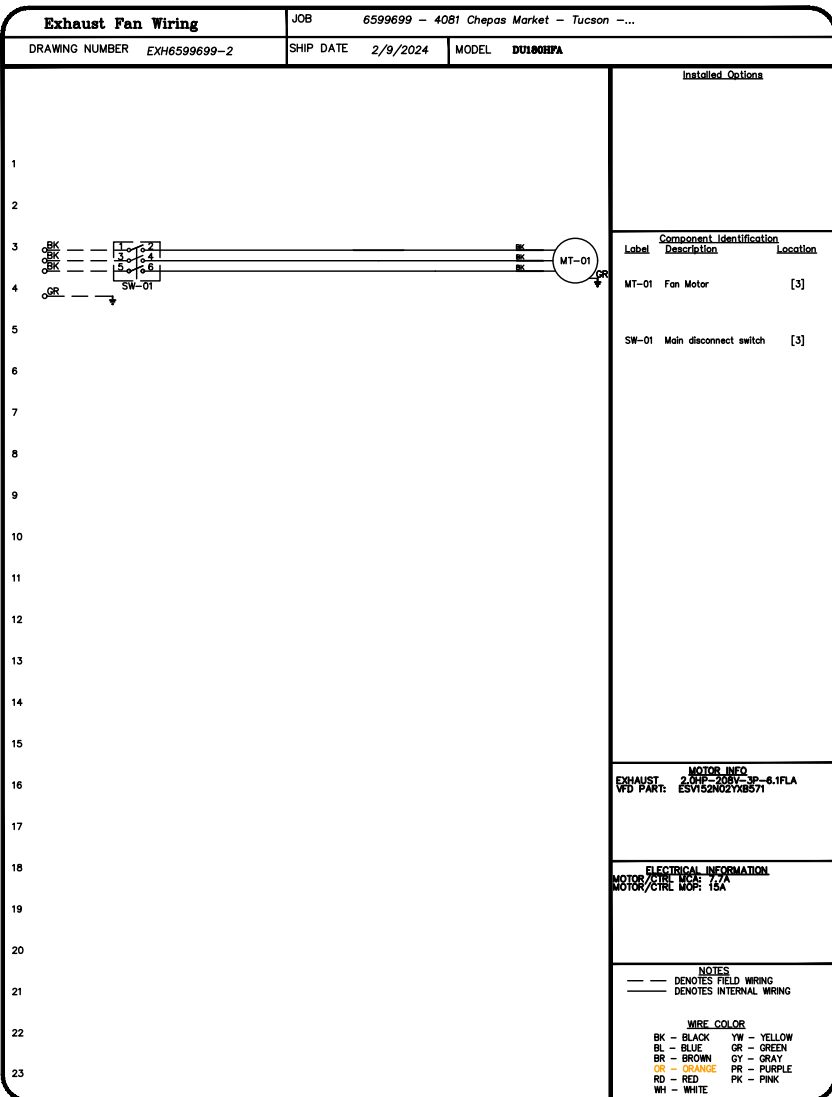
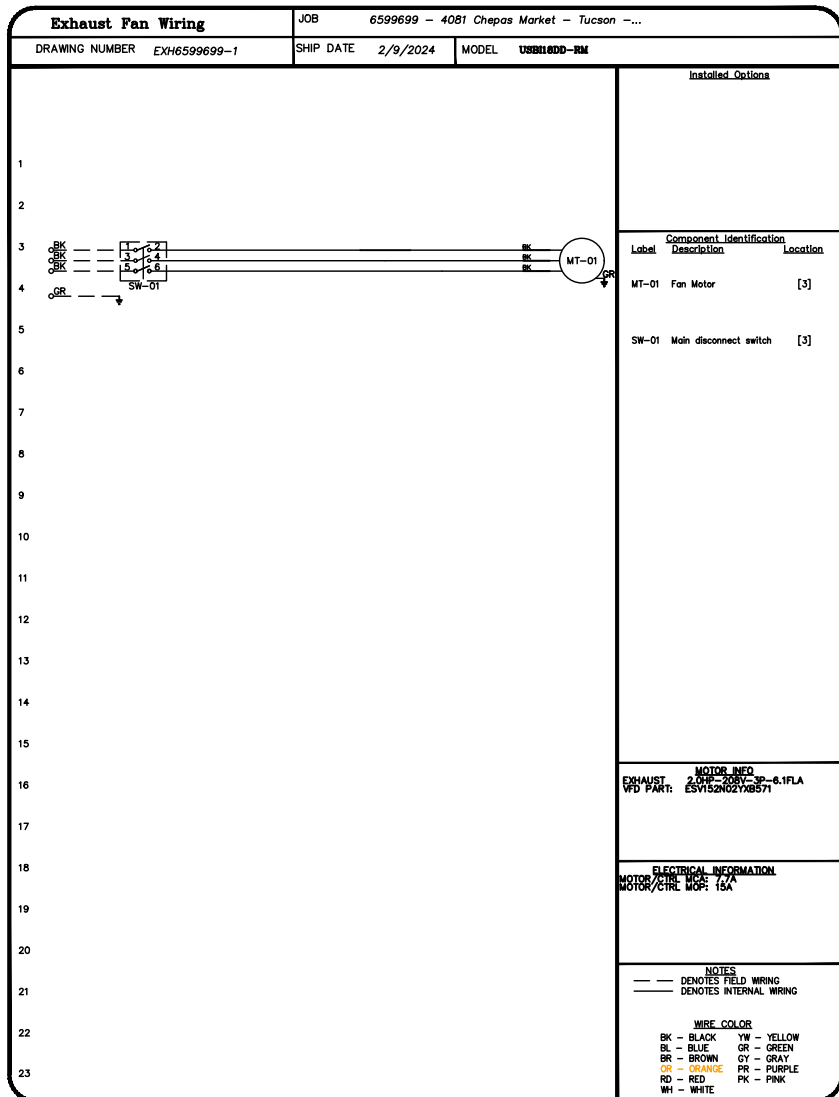
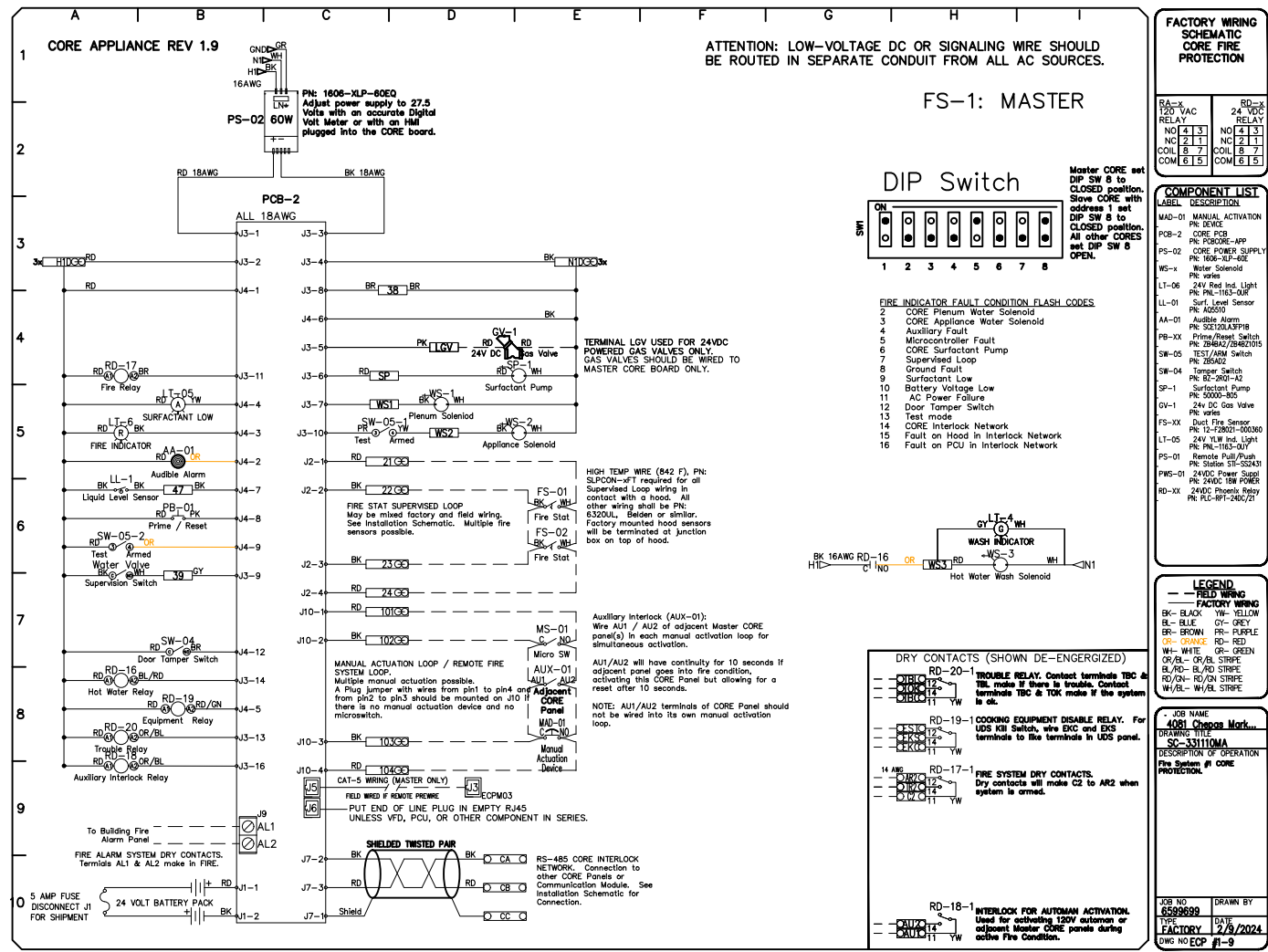
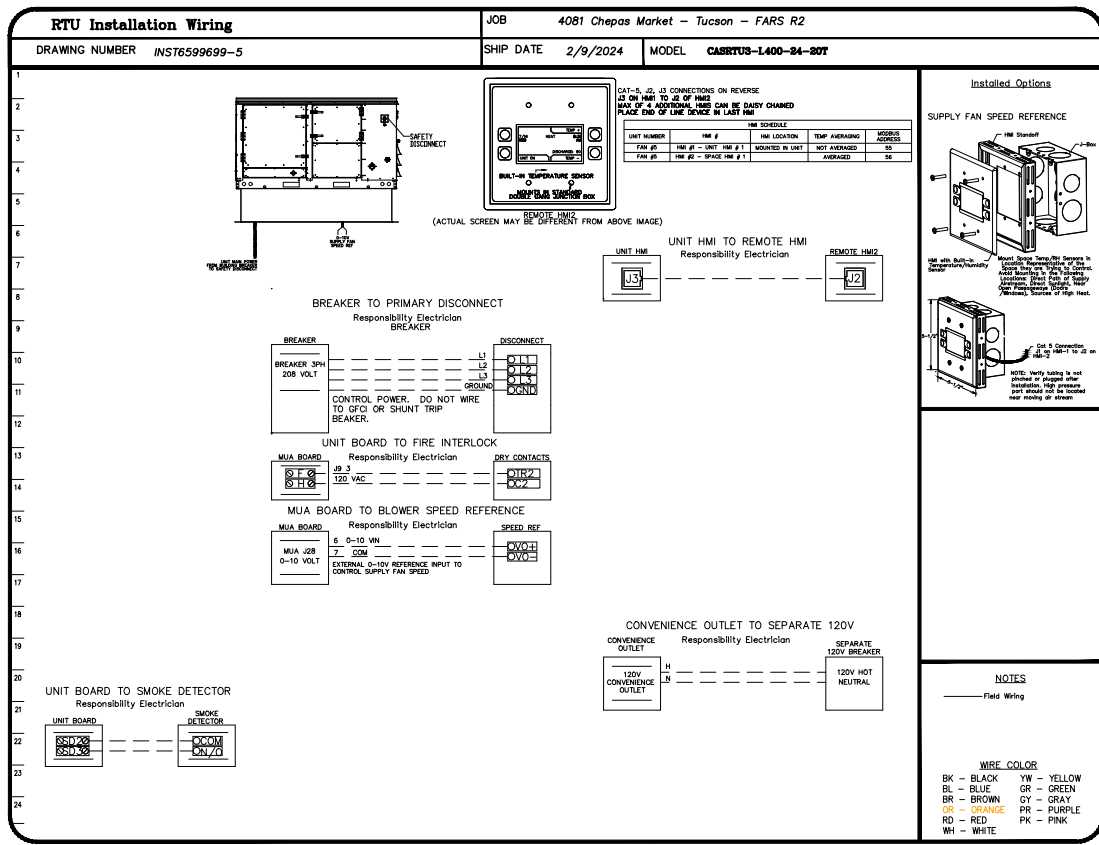
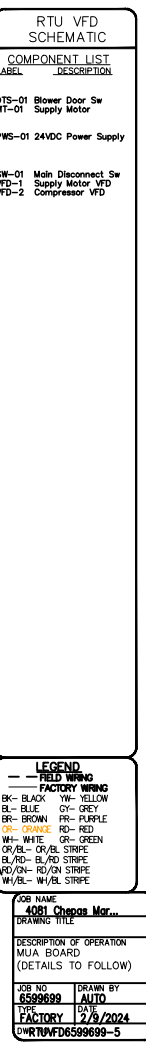
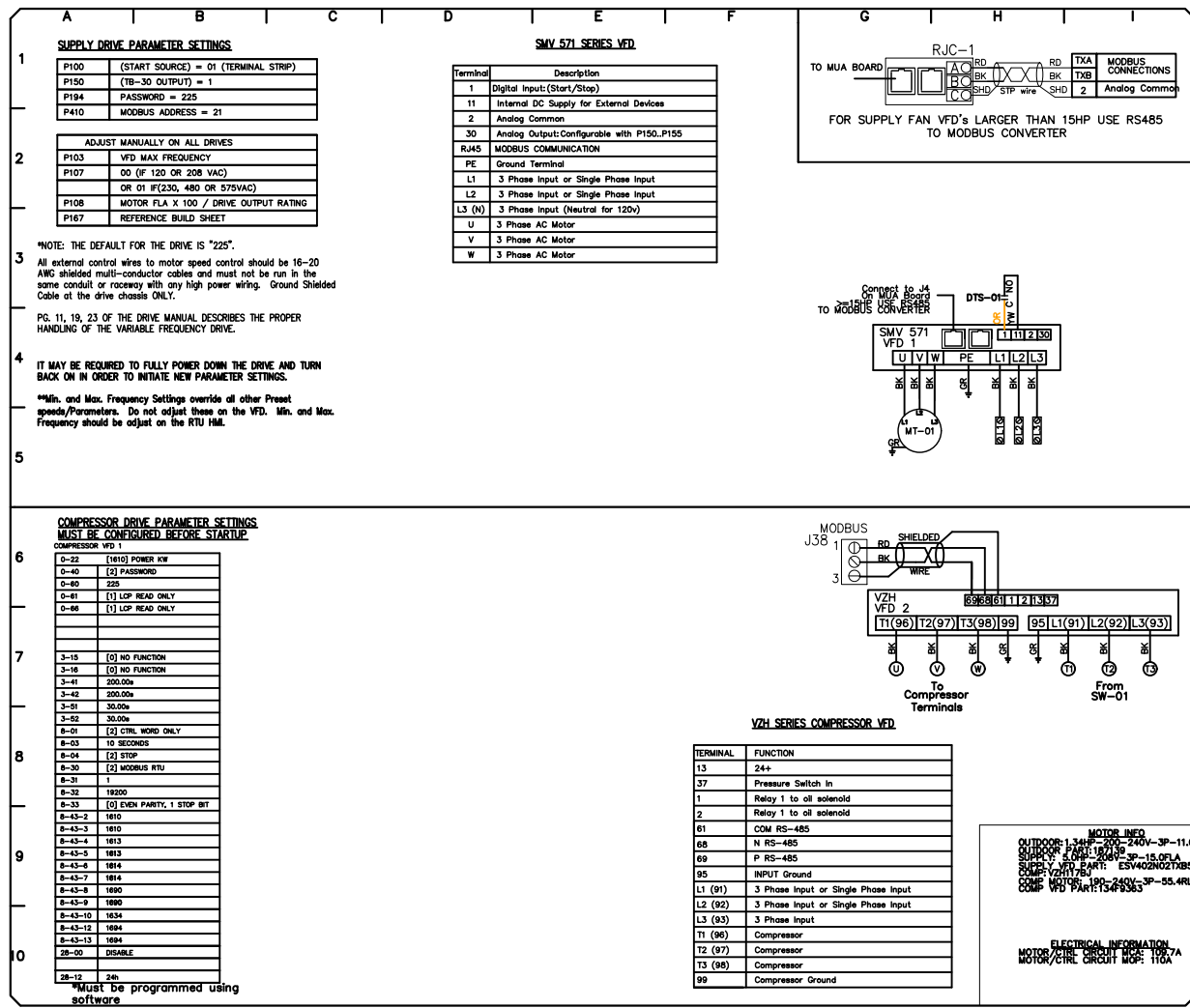
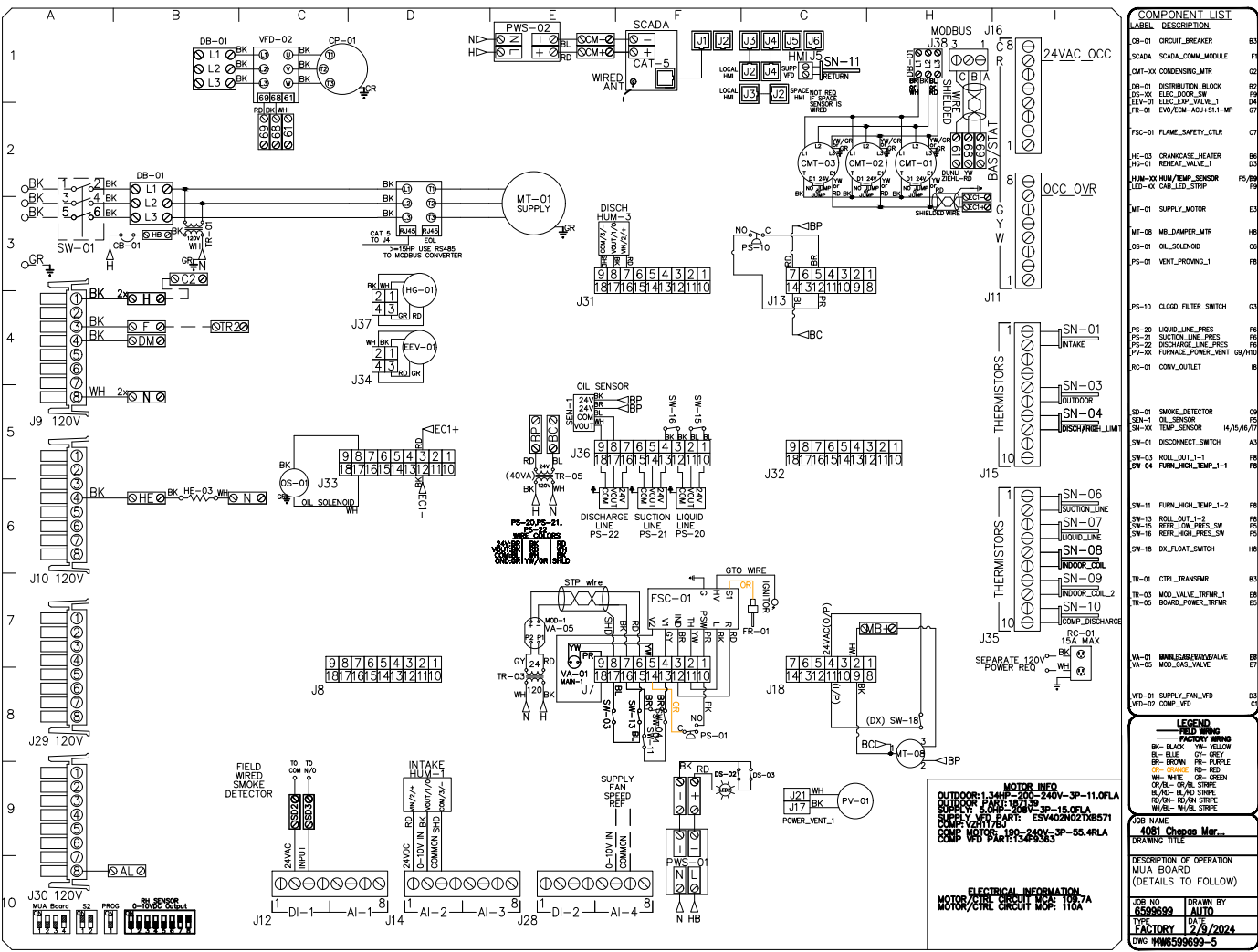
Checked by: JBM

Date: 2/29/2024

Sheet Number:

FS-4.5

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SYSTEM DESIGN VERIFICATION (SDV)

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

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

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

4081 Chapas Market – Tucson – FARS R2
TUCSON, AZ, 85705

DATE: 2/9/2024

DWG.#:
6599699

DRAWN
BY:

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

MASTER DRAWING

ST



REVISIONS

DESCRIPTION	DATE

Arizona Office
18206 N 19th Ave, Ste A-1B, Phoenix, AZ 85023 PHONE: (480) 926- 8810 FAX: 8771192227 EMAIL: reg93@captiveaire.com

AZ★RC

ARIZONA

RESTAURANT CONSULTING

7920 E. OAK STREET - SCOTTSDALE, ARIZONA 85257
602.699.5131
JUSTIN@AZRESTAURANTCONSULTING.COM

MICRO MARKET

TUCSON, ARIZONA

MECHANICAL SPECIFICATIONS

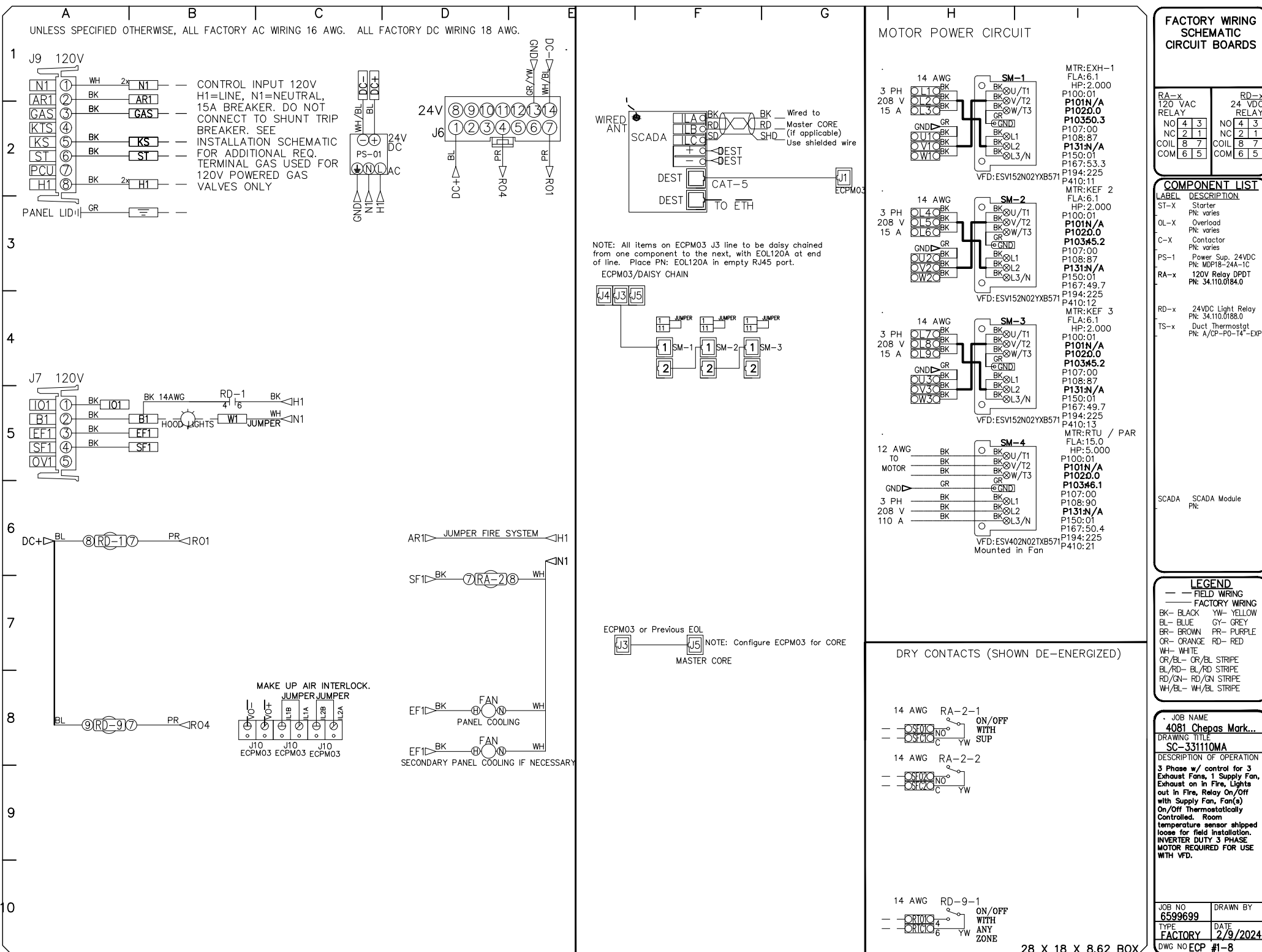
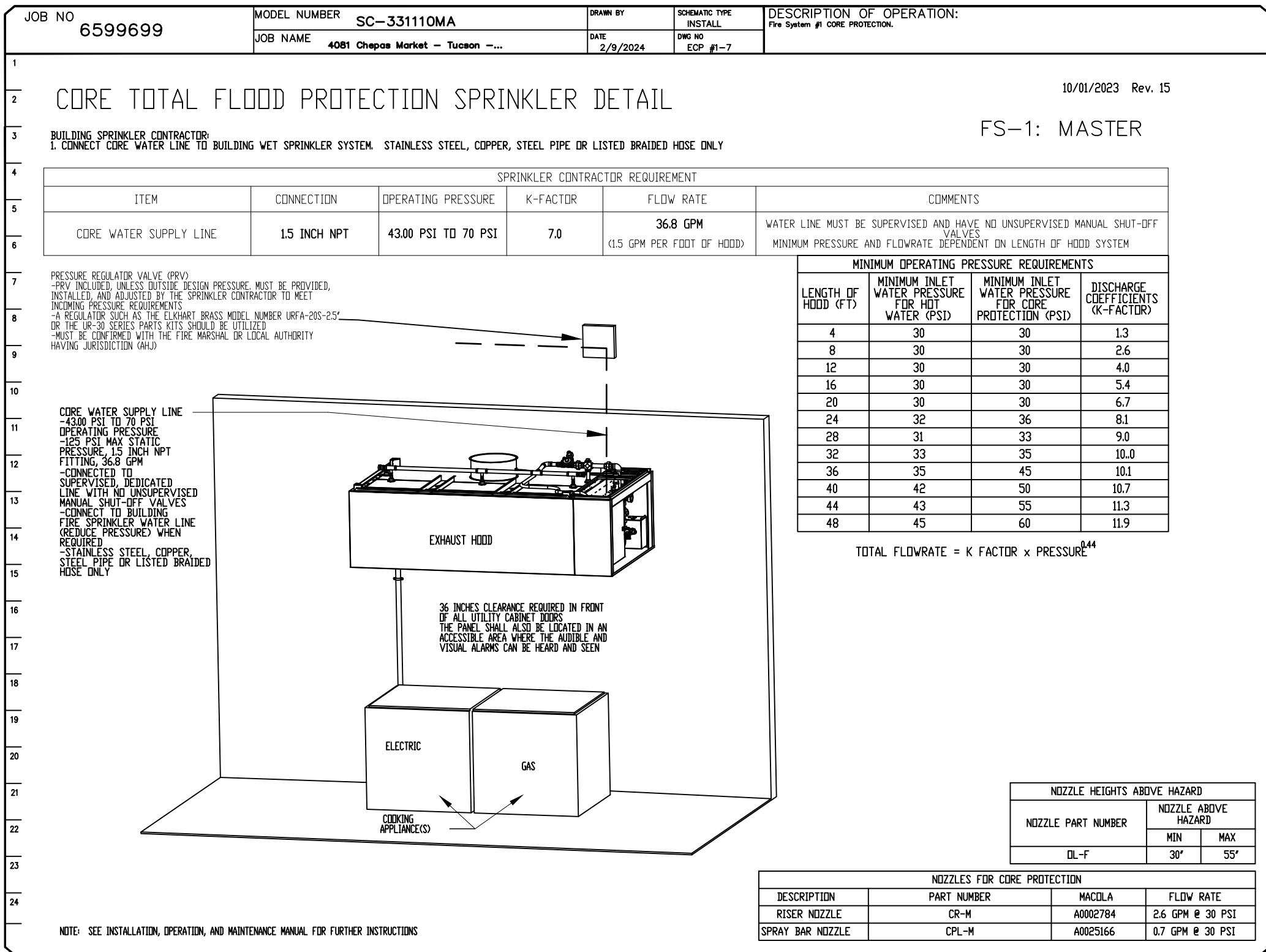
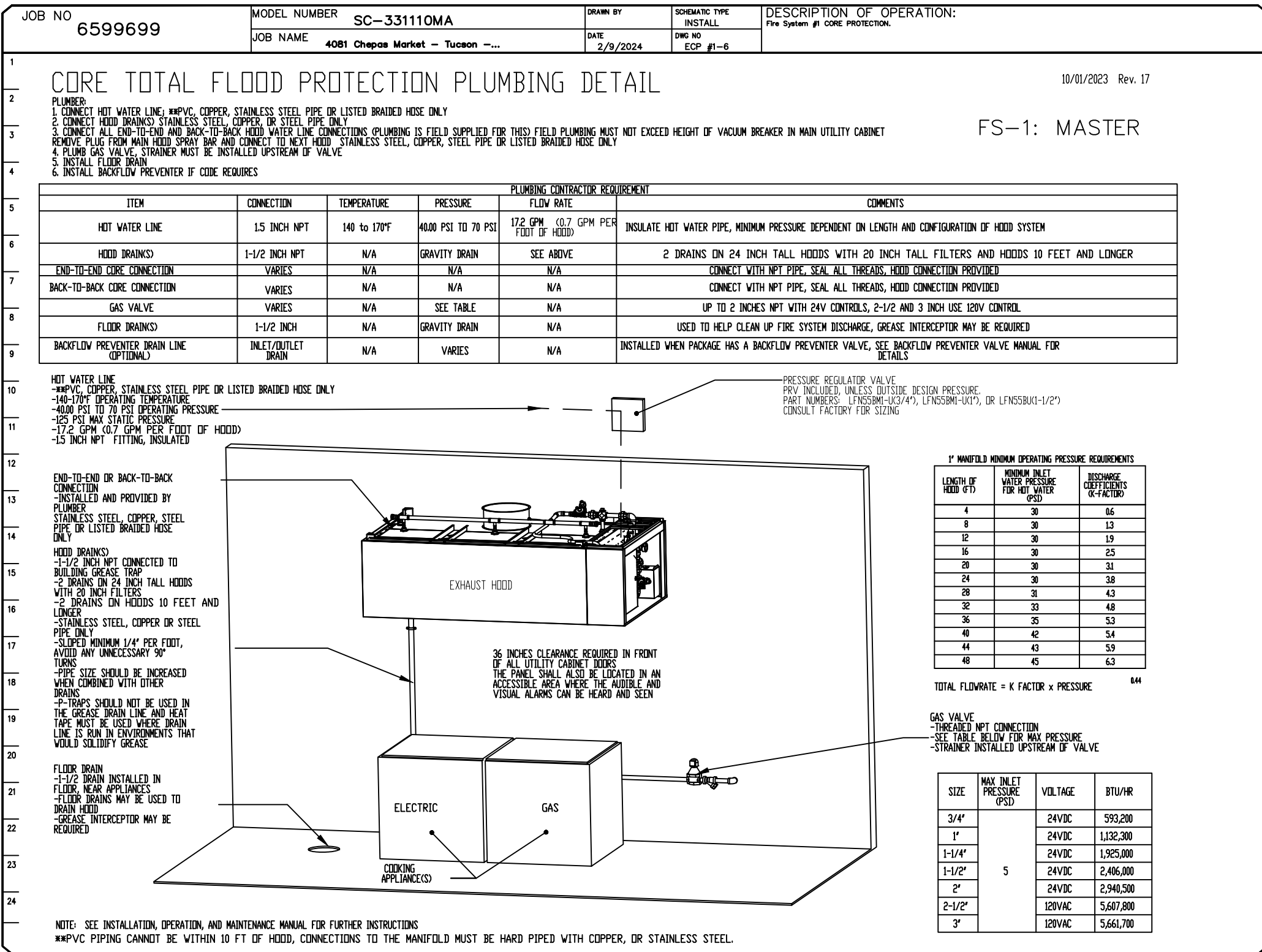
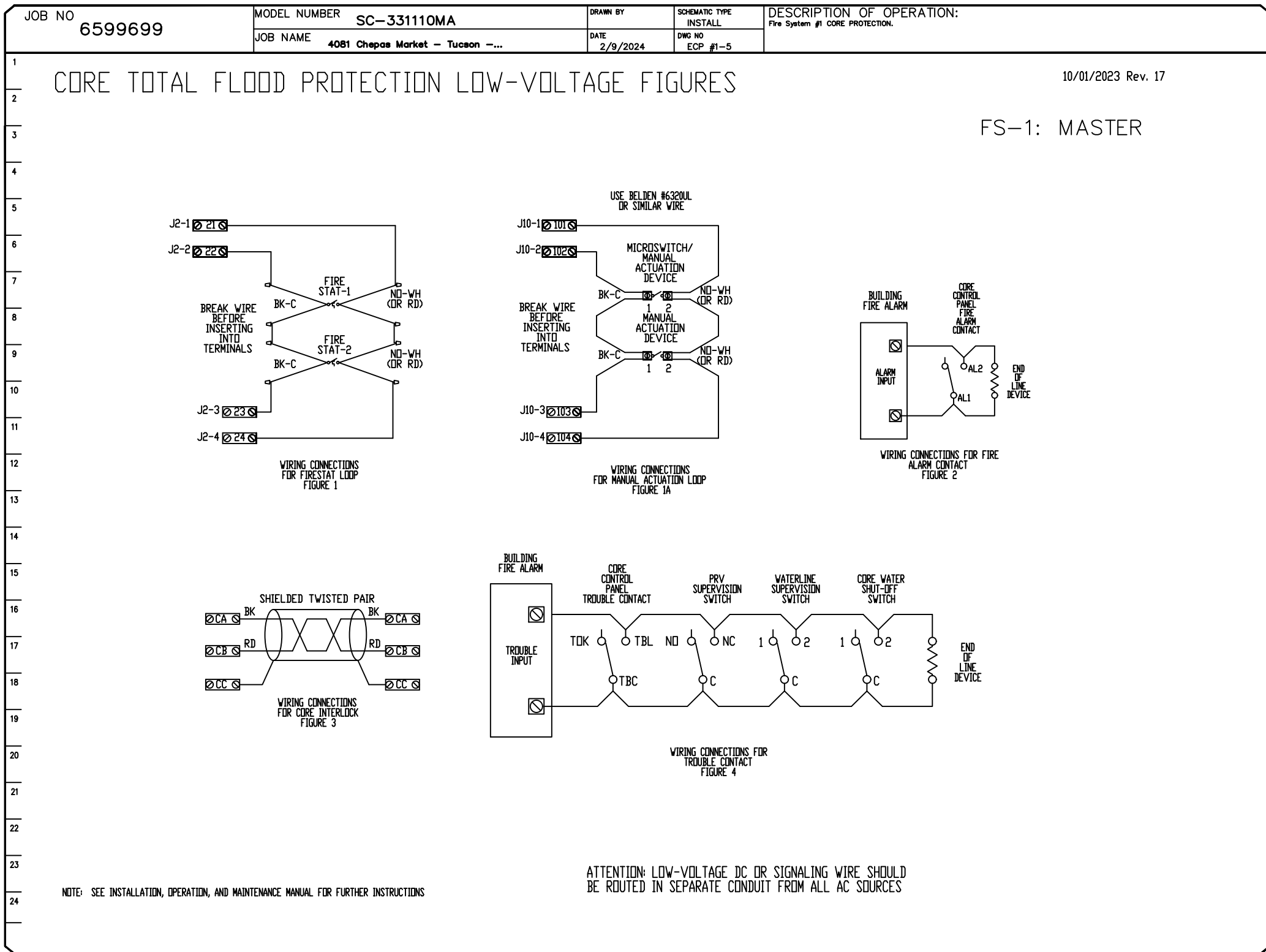
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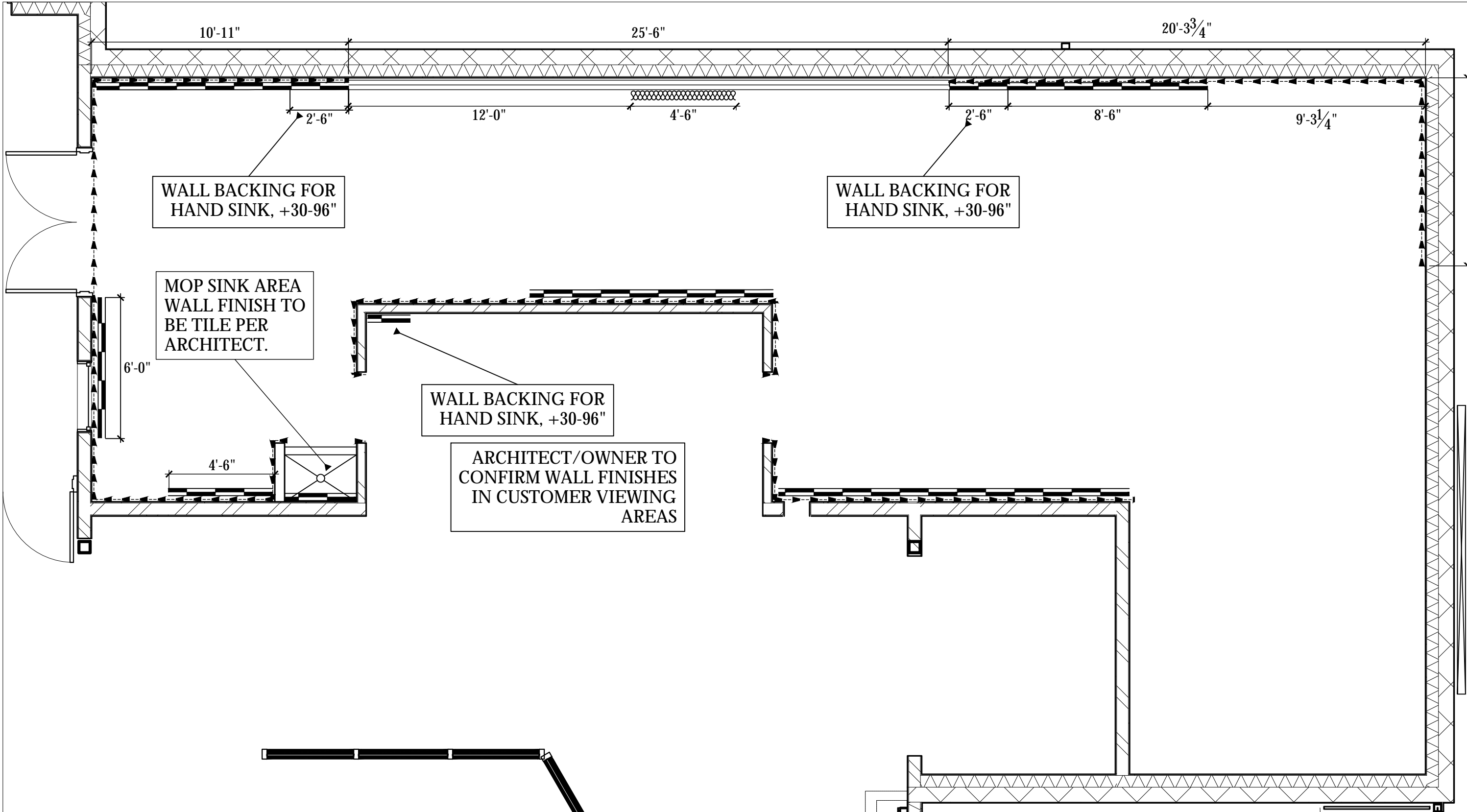
Checked by: JBM

Date: 2/29/2024

Sheet Number:

FS-4.6





SPECIAL CONDITIONS PLAN
SCALE: 1/4"=1'-0"

WALL FINISH DETAILS IN FOODSERVICE AREAS
NOT ALL SYMBOLS MAY BE USED

- S/S WALL FLASHING, 20 GAUGE W/ JOINING STRIPS @ SEAMS, MOUNT FROM 6" TO 8'-6" AFF. w/ 6" COVED BASE
- FRP, WHITE W/ JOINING STRIPS @ SEAMS, MOUNT FROM TOP OF COVED BASE TO CEILING GRID UNLESS OTHERWISE NOTED ON PLAN.
- EPOXY PAINT, NSF APPROVED OVER BLOCK CONSTRUCTION AS APPROVED BY HEALTH DEPARTMENT.

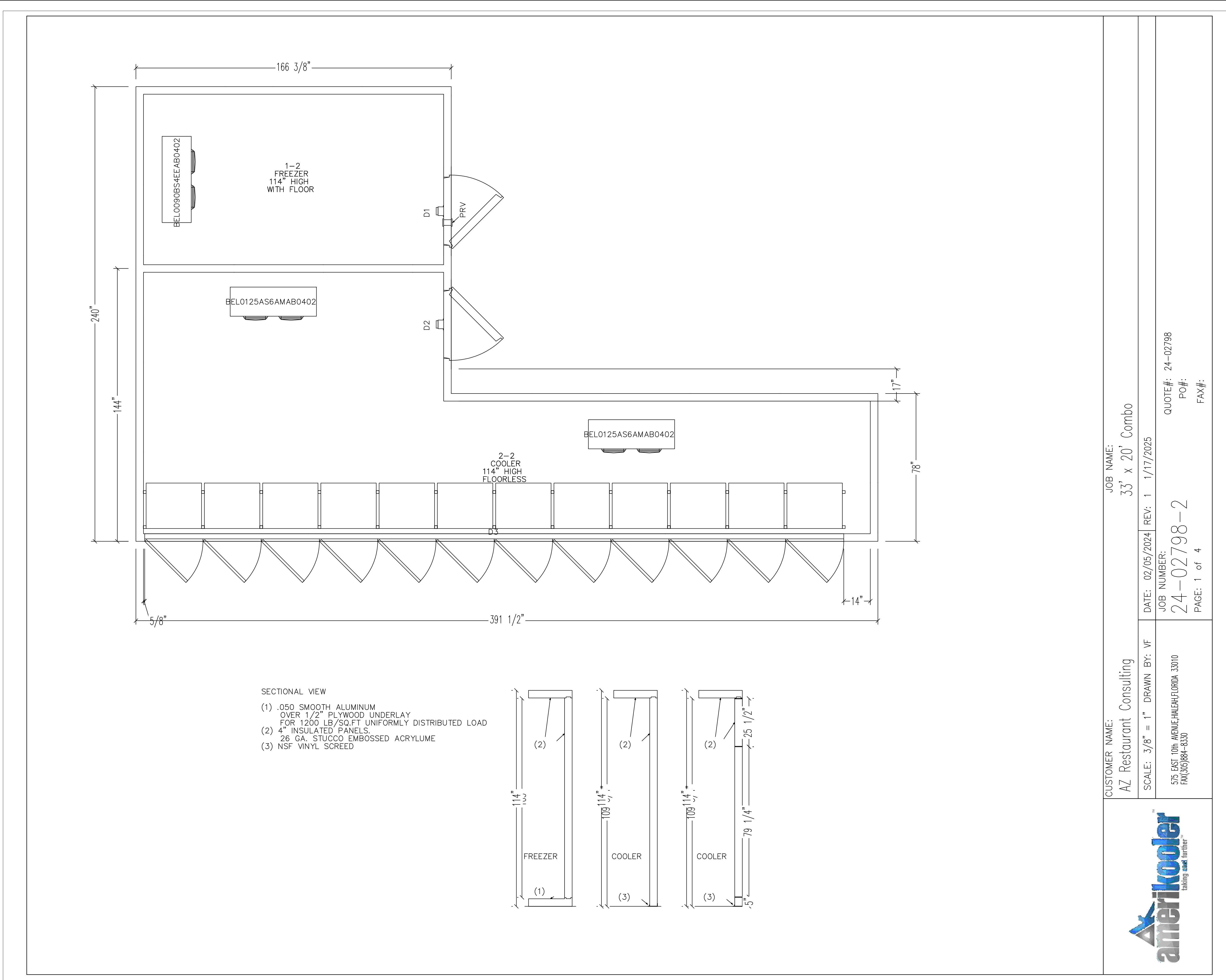
WALL BACKING DETAILS IN FOODSERVICE AREAS
NOT ALL SYMBOLS MAY BE USED

- 3/4" PLYWOOD WALL BACKING, IN LIEU OF SHEETROCK FROM 4'-0" TO 8'-0" UNLESS OTHERWISE NOTED ON PLAN
- NON-COMBUSTIBLE WALL BACKING, TBD BY GC, B SHEETROCK FROM 4'-0" TO 8'-0" UNLESS OTHER NOTED ON PLAN



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ARCHITECT		REV.	STATUS	
MERGE ARCHITECTURAL 600 N. 4TH STREET #112 PHOENIX, ARIZONA 85004 602-635-1581		A	-	
		B	-	
		C	-	
		D	-	
		E	-	
MICRO MARKET TUCSON, ARIZONA		SPECIAL CONDITIONS PLAN		
Drawn by:		JBM		
Checked by:				
Date:		2/29/2024		
Sheet Number:				
		FS-5.0		



CUSTOMER NAME: AZ Restaurant Consulting	JOB NAME: 33' x 20' Combo		
	SCALE: 3/8" = 1"	DRAWN BY: VF	DATE: 02/05/2024 REV: 1 1/17/2025
	575 EAST 10th AVENUE, HIALEAH, FLORIDA 33010 FAX: (305) 884-6330		
JOB NUMBER: 24-02798-2		QUOTE#: 24-02798 PO#: FAX#:	
PAGE: 1 of 4			

<div>MICRO MARKET</div> <div>TUCSON, ARIZONA</div> <div>WALK IN SPECIFICATIONS</div>	<div><div>AZ★RC</div><div>ARIZONA</div><div>RESTAURANT CONSULTING</div><div>7920 E. OAK STREET - SCOTTSDALE, ARIZONA 85257</div><div>602.699.5131</div><div>JUSTIN@AZRESTAURANTCONSULTING.COM</div></div>			ARCHITECT	MERGE ARCHITECTURAL 600 N. 4TH STREET #112 PHOENIX, ARIZONA 85004 602-635-1581	REV.	STATUS
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Drawn by:	—	Checked by:	JBM	Date:	2/29/2024	Sheet Number:	FS-6.0

FREEZER REFRIGERATION PACKAGE

[illegible]

COOLER REFRIGERATION PACKAGE

BCH0050MDA304000 - SUBMITTAL

BOHN

Product Name	BLT270E-002	Product Type	BTU/HR
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

☐ No Record ☐ No Approval

By: _____ Date: _____

General Product Information

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

Federal Information

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

Technical Information

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

General Product Information

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

Federal Information

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

Technical Information

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

BOHN

Product Name	BLT270E-002	Product Type	BTU/HR
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

General Product Information

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

Federal Information

Model Name	BLT270E	Manufacturer	Bohn
Model No.	BLT270E	Capacity	27000
Manufacturer	Bohn Industries	Installation	Indoor
Accessories	None	Condition	Normal
Notes	None		

CUSTOMER NAME: AZ Restaurant Consulting

JOB NAME: 33' x 20'

SCALE: 3/8" = 1"	DRAWN BY: VF	DATE: 02/05/2024	REV: 1	1/17/2025
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575 EAST 10th AVENUE, FLORIDA 33010 FAX(305)894-8330	JOB NUMBER: 24-02798-2	QUOTE #: 24-02798
	PAGE: 2 of 4	PO #: FAX #:

AmeriCoolerTM
taking **cool** furtherTM



MICRO MARKET
TUCSON, ARIZONA
WALK IN SPECIFICATIONS

Drawn by:	—
Checked by:	JBM
Date:	2/29/2024
Sheet Number:	

FS-6.1

ARCHITECT

MERGE ARCHITECTURAL
600 N. 4TH STREET #112
PHOENIX, ARIZONA 85004
602-635-1581

AZ★RC
ARIZONA
RESTAURANT CONSULTING
9920 E. OAK STREET • SCOTTSDALE, ARIZONA 85257
602.699.5131
JUSTIN@AZRESTAURANTCONSULTING.COM

STATUS

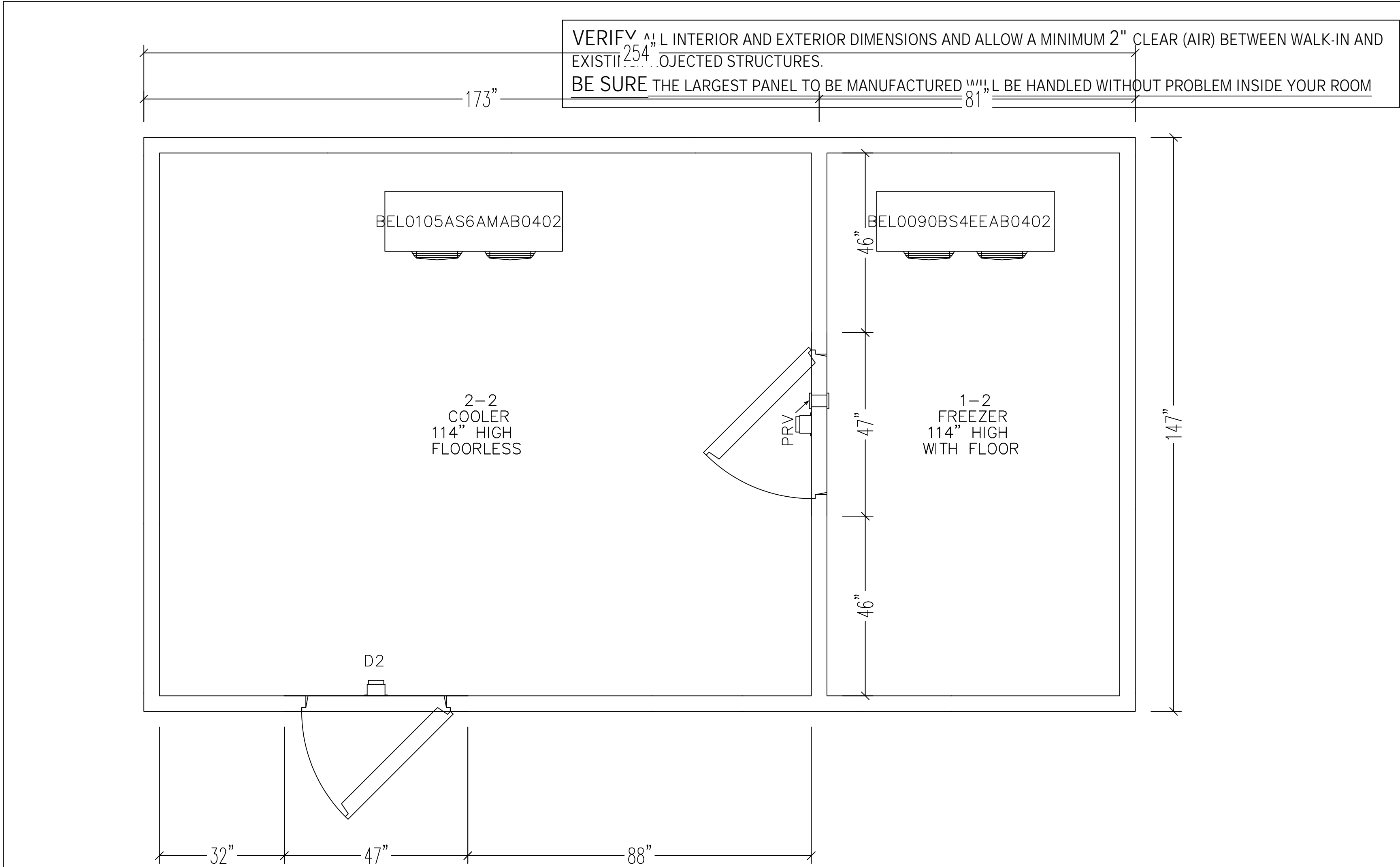
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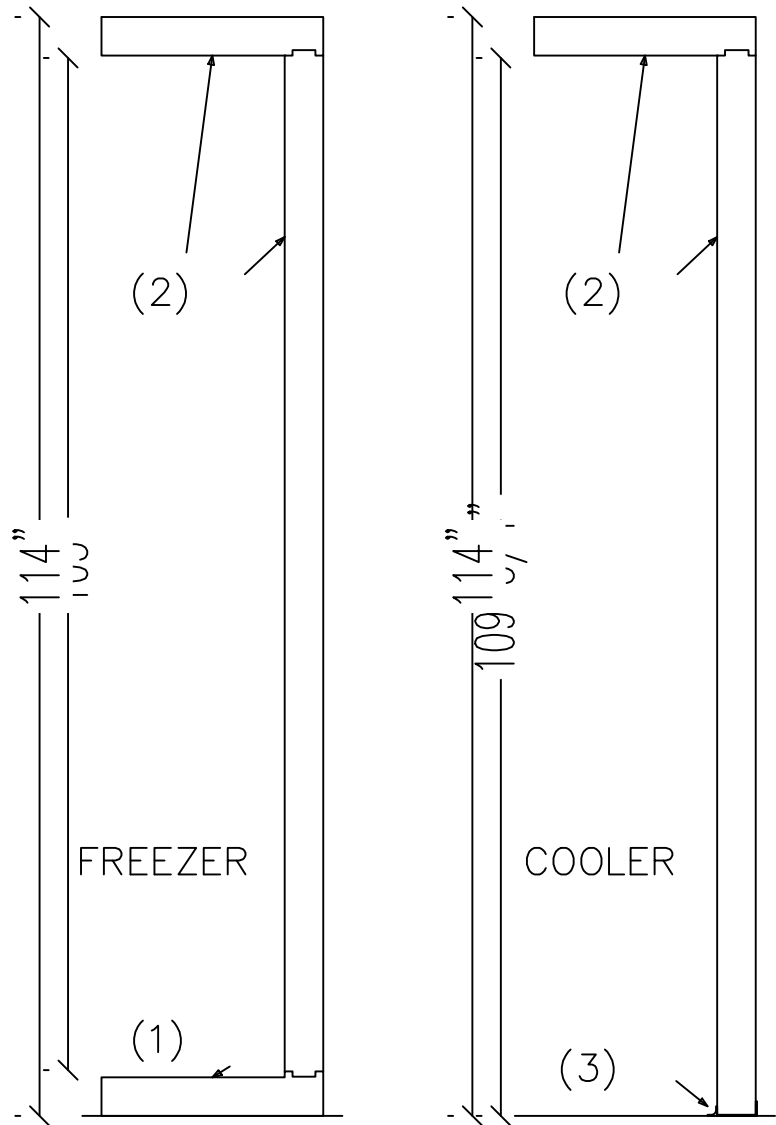
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4" INSULATION, AK-XPS4 HI-PERFORMANCE PANEL CORE
COOLERS R-29, FREEZERS R-32
CORE FLAME SPREAD RATING OF 15
SMOKE DEVELOPED OF 165
INSULATION WITH 50 YEAR R-VALUE WARRANTY

 	CUSTOMER NAME: AZ Restaurant Consulting	JOB NAME: 21' x 6'9 Combo	
	SCALE: 3/8" = 1" DRAWN BY: VF	DATE: 02/01/2024 REV: 1/17/2025	
	575 EAST 10th AVENUE, HIALEAH, FLORIDA 33010 FAX(305)884-8330	JOB NUMBER: 24-03107-1 PAGE: 3 of 4	QUOTE#: 24-03107 PO#: FAX#:

- SECTIONAL VIEW
- (1) .050 SMOOTH ALUMINUM OVER 1/2" PLYWOOD UNDERLAY FOR 1200 LB/SQ.FT UNIFORMLY DISTRIBUTED LOAD
 - (2) 4" INSULATED PANELS.
 - (3) NSF VINYL SCREED



ARCHITECT		REV.	STATUS	
MERGE ARCHITECTURAL 600 N. 4TH STREET #112 PHOENIX, ARIZONA 85004 602-635-1581		-	-	-
		-	-	-
		-	-	-
		-	-	-
		-	-	-

 RESTAURANT CONSULTING 7920 E. OAK STREET - SCOTTSDALE, ARIZONA 85257 JUSTIN@AZRESTAURANTCONSULTING.COM	MICRO MARKET TUCSON, ARIZONA	WALK IN SPECIFICATIONS
	Drawn by: -	Checked by: JBM
Date: 2/29/2024		Sheet Number:
FS-6.2		

