ELECTRONICALLY
CITY OF TALLAHASSEE
GROWTH MANAGEMENT
TSP240070
By:Haase, Dylan
On:12/13/2024 2:52 PM
App On: November 14, 2024
Exp On: November 14, 2027
APPROVED

TYPE 'A' SITE PLAN

FOR:

PETROPOLIS
PET KENNEL

INDEX

Sheet	Description:
C - 1	EXISTING CONDITIONS
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L - 1	CONCEPT LANDSCAPE PLAN

VICINITY MAP



PROJECT DATA

JOB NO.: 22-225

PARCEL #: 4113200240040 & 4113200240050

PROJECT NAME: PETROPOLIS

OWNER: PETROPOLIS CLUB INC.
10648 GAWSWORTH PT
ORLANDO, FLORIDA 32832

PLANS PREPARED BY: POOLE ENGINEERING & SURVEYING, INC.
2145 DELTA BOULEVARD, SUITE 100
TALLAHASSEE, FLORIDA 32303
(850) 386-5117
LICENSE NO. 006745

ENGINEER OF RECORD: CHERYL L. POOLE, P.E. 42037
VICE PRESIDENT - ENGINEERING

SURVEYOR OF RECORD: JAY ALAN KERI P.S.M. 5721
2145 DELTA BOULEVARD, SUITE 100
TALLAHASSEE, FLORIDA 32303 (850) 386-5117

DATE PREPARED: 11/06/24

REVISIONS:

PAGE:	DATE:	INITIAL:	COMMENTS:
ALL	11/19/24	BD	RTC

POOLE ENGINEERING & SURVEYING, Inc.

2145 DELTA BOULEVARD, SUITE 100
TALLAHASSEE, FLORIDA 32303

CHERYL CHAMBERS POOLE
CERTIFICATE
No. 42037
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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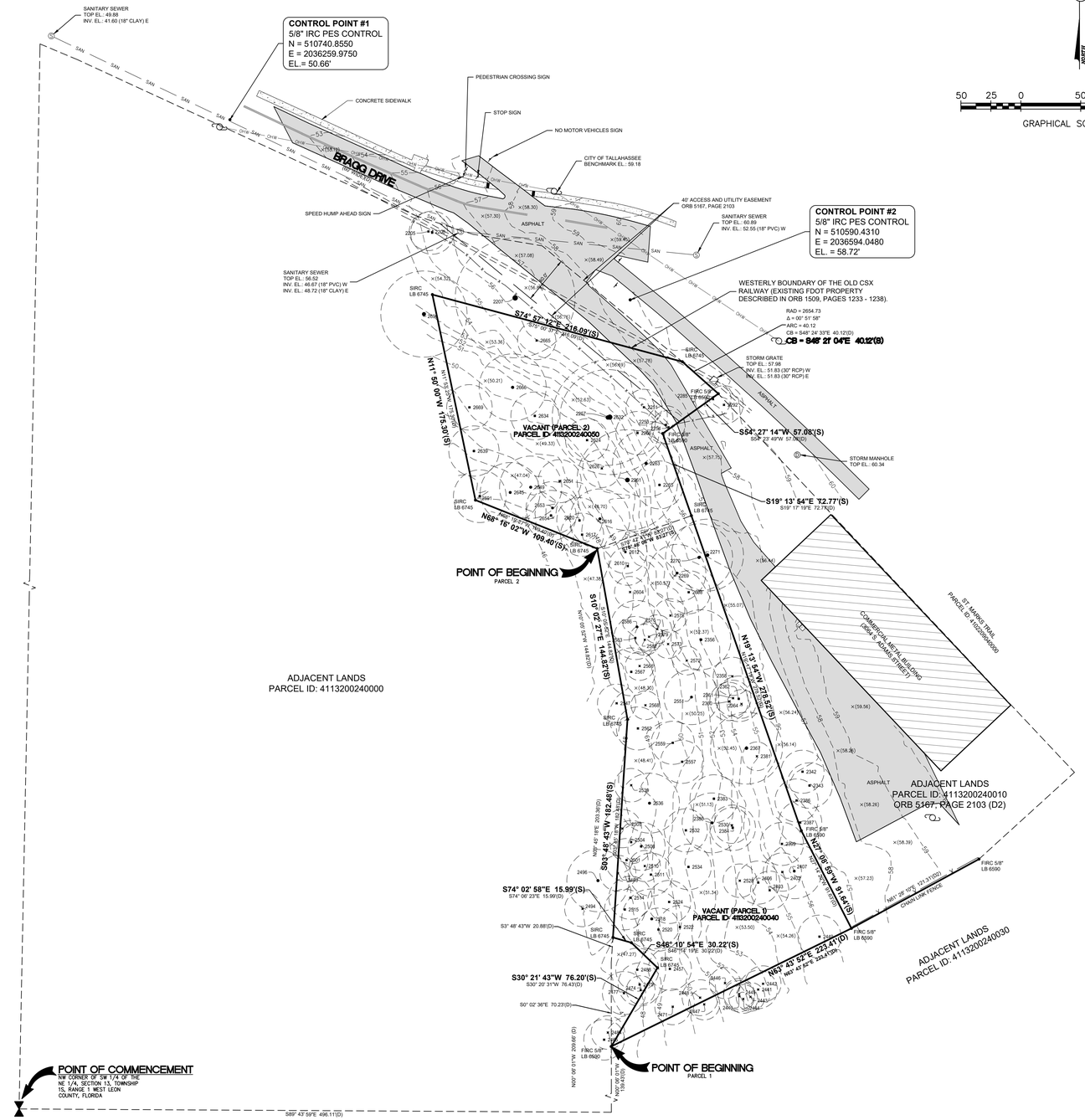
PE&S, I.

LEGEND

	(AB)	AS-BUILT
	A/C	AIR CONDITIONER
	ACSM	AMERICAN CONGRESS ON SURVEYING & MAPPING
	ALTA	AMERICAN LAND TITLE ASSOCIATION
	BB	BASKET BALL
BFP	BFP	BACKFLOW PREVENTER
BM	BM	BENCH MARK
	(C)	CALCULATED DATA
		CENTER LINE
Δ		CENTRAL ANGLE
	CH	CHORD BEARING & DISTANCE
	CLF	CHAIN LINK FENCE
	CMP	CORRUGATED METAL PIPE
CO	CO	CLEAN OUT
	COMM	COMMUNICATIONS
	CONC	CONCRETE
	COT	CITY OF TALLAHASSEE
CPED	CPED	CABLE PEDESTAL
	(D)	DEED INFORMATION
	D.E.P.	DEPARTMENT OF ENVIRONMENTAL PROTECTION
EB	EB	ELECTRIC BOX
	ECAB	ELECTRIC CABINET
	EL	ELEVATION
	ELEC.	ELECTRIC
	EM	ELECTRIC METER
EMH	EMH	ELECTRIC MANHOLE
FCM	FCM	FOUND CONCRETE MONUMENT 4"x4"
	FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
	FFE	FINISH FLOOR ELEVATION
FH	FH	FIRE HYDRANT
	FIP	FOUND IRON PIPE
	FIR	FOUND IRON ROD
	FNC	FOUND NAIL & CAP
	FNTN	FOUNTAIN
	FOWP	FIBER OPTIC WITNESS POST
	FPP	FOUND PINCH PIPE
	FRR	FOUND RAILROAD IRON (NO ID)
	FTCM	FOUND TERRA COTTA MONUMENT
	GA	GUY ANCHOR
	GLWP	GAS LINE WITNESS POST
	GPS	GLOBAL POSITIONING SYSTEM
GTMH	GTMH	GREASE TRAP MANHOLE
GV	GV	GAS VALVE
	HDPE	HIGH DENSITY POLYETHYLENE
	H.O.A.	HOME OWNERS ASSOCIATION
ICV	ICV	IRRIGATION CONTROL VALVE
	INV	INVERT ELEVATION
	L	LENGTH
	LB.	LICENSED BUSINESS
	LF	LINEAR FEET
LP	LP	LIGHT POLE
	LSA	LANDSCAPE AREA
	MB	MAIL BOX
	MES	MITERED END STRUCTURE
	NAD	NORTH AMERICAN DATUM, 1983
	NAVD	NORTH AMERICAN VERTICAL DATUM, 1988
	NGS	NATIONAL GEODETIC SURVEY
	NGVD	NATIONAL GEODETIC VERTICAL DATUM, 1929
	NO.	NUMBER
	NSPS	NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
	O/A	OVERALL
	OHW	OVERHEAD WIRE
	ORB	OFFICIAL RECORDS BOOK
	(P)	PLATTED DATA
	PB	PLAT BOOK
	PC	POINT OF CURVE
	PCC	POINT OF COMPOUND CURVE
	PCP	PERMANENT CONTROL POINT
	PES	POOLE ENGINEERING & SURVEYING
	PG	PAGE
	PI	POINT OF INTERSECTION
	POB	POINT OF BEGINNING
	POC	POINT OF COMMENCEMENT
	POT	POINT OF TANGENT
	PRC	POINT OF REVERSE CURVE
	PRM	PERMANENT REFERENCE MONUMENT
	PT	POINT OF TANGENCY
	PVC	POLYVINYL CHLORIDE
	R	RADIUS
	R___	RANGE
	RCP	REINFORCED CONCRETE PIPE
	RE	REAL ESTATE PARCEL
REF PT	REF PT	REFERENCE POINT LB NO. 6745
	R/R	RAILROAD
	RTK	REAL TIME KINEMATIC
	R/W	RIGHT-OF-WAY
	(S)	SURVEY INFORMATION
SCM	SCM	SET CONCRETE MONUMENT LB NO. 6745 (4"x4")
SCO	SCO	SANITARY CLEAN OUT
SDMH	SDMH	STORM DRAIN MANHOLE
	SDR	STANDARD DIMENSION RATIO PIPE (PVC)
	SEC.	SECTION
	SG	STORM GRATE
	SIGN	SIGN
SIRC	SIRC	SET IRON ROD & CAP LB NO. 6745 (5/8")
SLWP	SLWP	SEWER LINE WITNESS POST
SNC	SNC	SET NAIL & CAP LB NO. 6745
	SR	STATE ROAD
	SRD	STATE ROAD DEPARTMENT
	SRF	SPLIT RAIL WOOD FENCE
SSMH	SSMH	SANITARY SEWER MANHOLE
	STA.	STATION
	T	TOWNSHIP
TBM	TBM	TEMPORARY BENCH MARK
	T.C.	TERRA COTTA
	T.E.C.	TALQUIN ELECTRIC COOPERATIVE
TELE	TELE	TELEPHONE
TEMH	TEMH	TELEPHONE MANHOLE
	TITF	TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND
	TOB	TOP OF BANK
	TOE	TOE OF SLOPE
TPED	TPED	TELEPHONE PEDESTAL
	TSCB	TRAFFIC SIGNAL CONTROL BOX
	TX	TRANSFORMER PAD
	(TYP)	TYPICAL
UP	UP	UTILITY POLE
UPL	UPL	UTILITY POLE WITH LIGHT
	VLT	VAULT
	WDF	WOOD FENCE
WIT.PT	WIT.PT	WITNESS POINT LB NO. 6745
	WLWP	WATER LINE WITNESS POST
WM	WM	WATER METER
WPED	WPED	WIFI PEDESTAL
	WRF	WIRE FENCE
WV	WV	WATER VALVE
	YD	YARD DRAIN
		YARD SPOTLIGHT
	COM	UNDERGROUND COMMUNICATIONS
	E	UNDERGROUND ELECTRIC/POWER
	FO	UNDERGROUND FIBER OPTIC
	G	UNDERGROUND GAS
	OHW	OVERHEAD WIRES
	SAN	UNDERGROUND SANITARY PIPES
	SL	UNDERGROUND STREET LIGHTS WIRE
		UNDERGROUND STORM DRAIN PIPES
	T	UNDERGROUND TELEPHONE LINES
	UNK	UNDERGROUND UNKNOWN LINES
	WM	UNDERGROUND WATER LINES

NOTES:

1. BEARINGS SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE, (NAD 83/2011) AND ARE GRID BEARINGS.
2. NO UNDERGROUND FOOTERS ARE LOCATED BY THIS SURVEY.
3. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
4. MEASUREMENTS SHOWN HEREON ARE U.S. FEET AND HORIZONTAL DISTANCES.
5. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (U.S. SURVEY FOOT).
6. FLOOD INSURANCE RATE MAPS INDICATE THE PROPERTY SHOWN HEREON IS LOCATED IN FLOOD ZONE "X" AS INDICATED ON PANEL NO. 12073C 0276F, LEON COUNTY, FLORIDA DATED 08-18-2009.



Tree Table	
Point #	Size and Type
2205	16" WATER OAK
2206	18" SLASH PINE
2207	50" LIVE OAK
2251	15" LAUREL OAK
2253	16" LAUREL OAK
2254	14" LAUREL OAK
2256	18" WATER OAK
2257	40" LAUREL OAK
2261	42" LAUREL OAK
2263	28" LAUREL OAK
2265	20" SLASH PINE
2269	24" LAUREL OAK
2270	28"+23" LAUREL OAK
2271	30" LIVE OAK
2285	15"+12" LAUREL OAK
2292	16" LAUREL OAK
2342	18" SLASH PINE
2343	19" SLASH PINE
2356	25" WATER OAK
2358	16" LIVE OAK
2360	16" LIVE OAK
2361	15" LAUREL OAK
2362	19" LAUREL OAK
2364	12" HOLLY
2367	30" LAUREL OAK

Tree Table	
Point #	Size and Type
2381	12" LAUREL OAK
2383	20" SLASH PINE
2384	19" LIVE OAK
2385	25" SLASH PINE
2386	18" SLASH PINE
2387	18" SLASH PINE
2399	18" SLASH PINE
2402	16" LAUREL OAK
2403	16" LAUREL OAK
2406	18" SLASH PINE
2407	18"+18"+23" LAUREL OAK
2440	13" SLASH PINE
2441	16" WATER OAK
2442	15" SLASH PINE
2443	12" SLASH PINE
2444	12" SLASH PINE
2445	13" SLASH PINE
2446	13" SLASH PINE
2447	13" SLASH PINE
2448	15" SLASH PINE
2449	18" SLASH PINE
2457	18" SLASH PINE
2465	17" WHITE OAK
2471	15" LAUREL OAK
2474	12" WATER OAK

Tree Table	
Point #	Size and Type
2475	18" SLASH PINE
2477	18" SLASH PINE
2484	14" WHITE OAK
2488	18" SLASH PINE
2494	15"+10" RED OAK
2496	26" SLASH PINE
2498	15" SWEET GUM
2501	18" SLASH PINE
2504	18" SLASH PINE
2505	16"+6" SWEET GUM
2508	20" SLASH PINE
2510	13" SWEETGUM
2511	18" SLASH PINE
2514	18" SLASH PINE
2515	17" SWEET GUM
2518	25" SLASH PINE
2520	18" SLASH PINE
2522	18" SLASH PINE
2524	18" SLASH PINE
2528	14" LAUREL OAK
2530	15" WHITE OAK
2532	18" SLASH PINE
2534	19" SLASH PINE
2536	25" SLASH PINE
2539	14" LAUREL OAK

Tree Table	
Point #	Size and Type
2547	16" SWEET GUM
2551	23" SLASH PINE
2557	18" SLASH PINE
2559	18" LAUREL OAK
2562	18" LIVE OAK
2566	12" SWEET GUM
2567	20" LIVE OAK
2568	12" CHERRY LAUREL
2572	12" LAUREL OAK
2573	12" LAUREL OAK
2576	12" SWEET GUM
2578	14" CHERRY LAUREL
2579	12"+14" LIVE OAK
2582	13" LAUREL OAK
2583	18" SLASH PINE
2586	22" SLASH PINE
2591	22" SLASH PINE
2604	13" WHITE OAK
2608	18" LAUREL OAK
2610	16"+10"+7" LAUREL OAK
2612	18" LAUREL OAK
2616	25" LAUREL OAK
2617	18" SLASH PINE
2620	19" SLASH PINE
2624	18" LAUREL OAK

Tree Table	
Point #	Size and Type
2626	16" LAUREL OAK
2632	48" LAUREL OAK
2634	20" SLASH PINE
2639	21" SLASH PINE
2645	25" SLASH PINE
2649	26" SLASH PINE
2651	18" SLASH PINE
2653	22" SLASH PINE
2654	21" SWEET GUM
2665	16" LAUREL OAK
2666	28" SLASH PINE
2669	19" SLASH PINE
2696	36" LAUREL OAK

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● WWW.POOLE-ENG.COM ●

REVISED: 11/19/24 - RTC

DATE: 11/06/24
SCALE: 1" = 30'
DRAWN BY: PES

PROJECT: PETROPOLIS

TITLE: EXISTING CONDITIONS

CHERYL CHAMBERS POOLE CERTIFICATE No. 42037 STATE OF FLORIDA PROFESSIONAL ENGINEER

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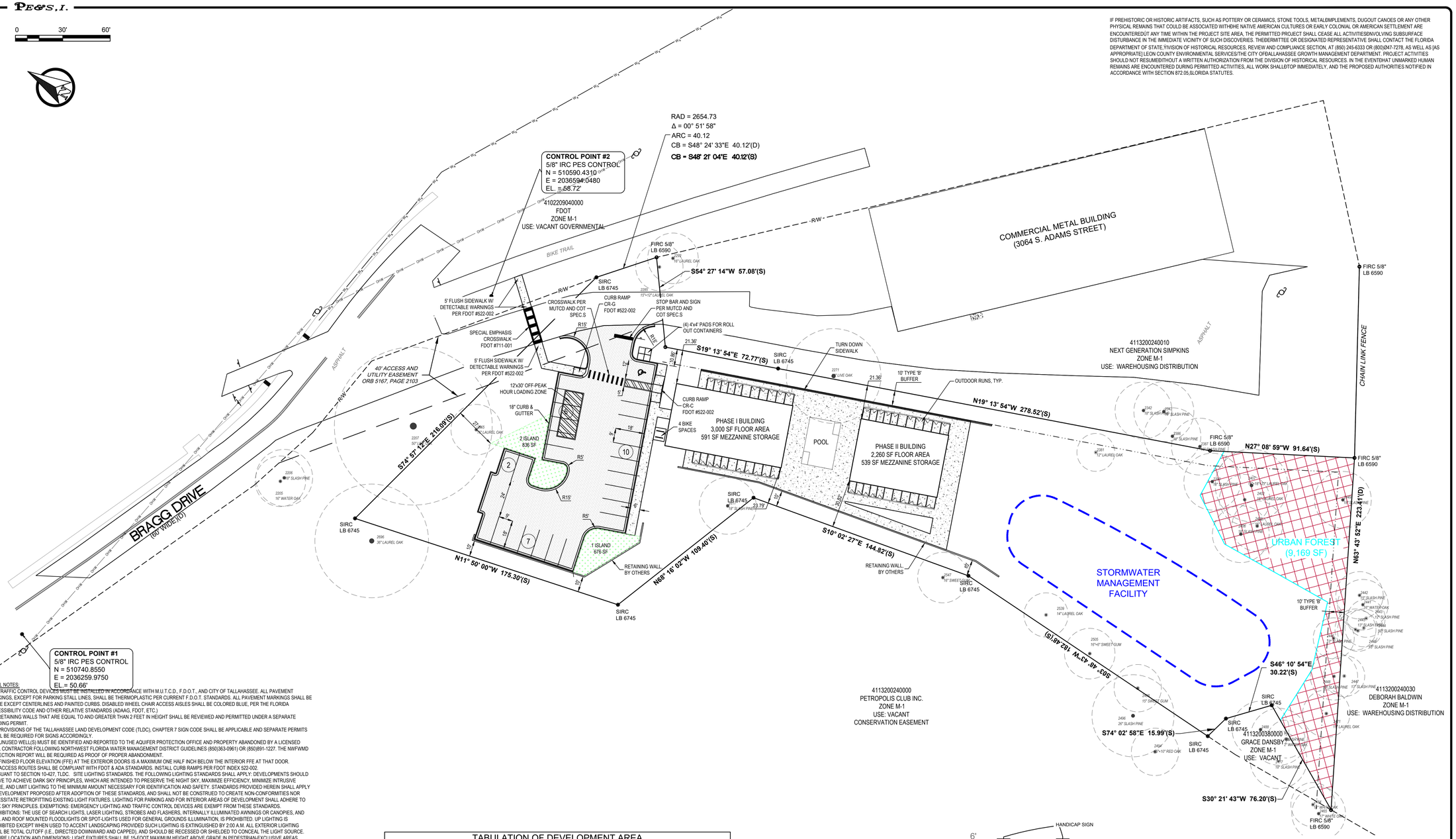
SHEET NUMBER: C-1

PE&S, I.

PEGS, I.

0 30' 60'

IF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, STONE TOOLS, METALOMPLEMENTS, DUGOUT CANOES OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITHDHE NATIVE AMERICAN CULTURES OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTEREDÚT ANY TIME WITHIN THE PROJECT SITE AREA, THE PERMITTED PROJECT SHALL CEASE ALL ACTIVITIESDNVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THEDERMITTEE OR DESIGNATED REPRESENTATIVE SHALL CONTACT THE FLORIDA DEPARTMENT OF STATE,YIVISION OF HISTORICAL RESOURCES, REVIEW AND COMPLIANCE SECTION, AT (850) 245-6333 OR (800)Ø47-7278, AS WELL AS (AS APPROPRIATE] LEON COUNTY ENVIRONMENTAL SERVICES/THE CITY OFDALLAHASSEE GROWTH MANAGEMENT DEPARTMENT. PROJECT ACTIVITIES SHOULD NOT RESUMEDITHOUT A WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES. IN THE EVENTDHAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALLTOP IMMEDIATELY, AND THE PROPOSED AUTHORITIES NOTIFIED IN ACCORDANCE WITH SECTION 872.05,8LORIDA STATUTES.



GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES MUST BE INSTALLED IN ACCORDANCE WITH M.U.T.C.D., F.D.O.T., AND CITY OF TALLAHASSEE. ALL PAVEMENT MARKINGS, EXCEPT FOR PARKING STALL LINES, SHALL BE THERMOPLASTIC PER CURRENT F.D.O.T. STANDARDS. ALL PAVEMENT MARKINGS SHALL BE WHITE EXCEPT CENTERLINES AND PAINTED CURBS. DISABLED WHEEL CHAIR ACCESS AISLES SHALL BE COLORED BLUE, PER THE FLORIDA ACCESSIBILITY CODE AND OTHER RELATIVE STANDARDS (ADAAG, FDOT, ETC.)
2. ALL RETAINING WALLS THAT ARE EQUAL TO AND GREATER THAN 2 FEET IN HEIGHT SHALL BE REVIEWED AND PERMITTED UNDER A SEPARATE BUILDING PERMIT.
3. ALL PROVISIONS OF THE TALLAHASSEE LAND DEVELOPMENT CODE (TLDC), CHAPTER 7 SIGN CODE SHALL BE APPLICABLE AND SEPARATE PERMITS SHALL BE REQUIRED FOR SIGNS ACCORDINGLY.
4. ANY UNUSED WELL(S) MUST BE IDENTIFIED AND REPORTED TO THE AQUIFER PROTECTION OFFICE AND PROPERTY ABANDONED BY A LICENSED WELL CONTRACTOR FOLLOWING NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT GUIDELINES (850)363-0961) OR (850)891-1227. THE NWFWMD INSPECTION REPORT WILL BE REQUIRED AS PROOF OF PROPER ABANDONMENT.
5. THE FINISHED FLOOR ELEVATION (FFE) AT THE EXTERIOR DOORS IS A MAXIMUM ONE HALF INCH BELOW THE INTERIOR FFE AT THAT DOOR.
6. ADA ACCESS ROUTES SHALL BE COMPLIANT WITH FDOT & ADA STANDARDS. INSTALL CURB RAMPS PER FDOT INDEX 522-002.
7. PURSUANT TO SECTION 10-427, TLDC. SITE LIGHTING STANDARDS. THE FOLLOWING LIGHTING STANDARDS SHALL APPLY: DEVELOPMENTS SHOULD STRIVE TO ACHIEVE DARK SKY PRINCIPLES, WHICH ARE INTENDED TO PRESERVE THE NIGHT SKY, MAXIMIZE EFFICIENCY, MINIMIZE INTRUSIVE GLARE, AND LIMIT LIGHTING TO THE MINIMUM AMOUNT NECESSARY FOR IDENTIFICATION AND SAFETY. STANDARDS PROVIDED HEREIN SHALL APPLY TO DEVELOPMENT PROPOSED AFTER ADOPTION OF THESE STANDARDS, AND SHALL NOT BE CONSTRUED TO CREATE NON-CONFORMITIES NOR NECESSITATE RETROFITTING EXISTING LIGHT FIXTURES. LIGHTING FOR PARKING AND FOR INTERIOR AREAS OF DEVELOPMENT SHALL ADHERE TO DARK SKY PRINCIPLES. EXEMPTIONS: EMERGENCY LIGHTING AND TRAFFIC CONTROL DEVICES ARE EXEMPT FROM THESE STANDARDS. PROHIBITIONS: THE USE OF SEARCH LIGHTS, LASER LIGHTING, STROBES AND FLASHERS, INTERNALLY ILLUMINATED AWNINGS OR CANOPIES, AND WALL AND ROOF MOUNTED FLOODLIGHTS OR SPOT-LIGHTS USED FOR GENERAL GROUNDS ILLUMINATION, IS PROHIBITED. UP LIGHTING IS PROHIBITED EXCEPT WHEN USED TO ACCENT LANDSCAPING PROVIDED SUCH LIGHTING IS EXTINGUISHED BY 2:00 A.M. ALL EXTERIOR LIGHTING SHALL BE TOTAL CUTOFF (I.E., DIRECTED DOWNWARD AND CAPPED), AND SHOULD BE RECESSED OR SHIELDED TO CONCEAL THE LIGHT SOURCE. FIXTURE LOCATION AND DIMENSIONS: LIGHT FIXTURES SHALL BE 15-FOOT MAXIMUM HEIGHT ABOVE GRADE IN PEDESTRIAN-EXCLUSIVE AREAS. LIGHTED BOLLARDS OR RECESSED STAIRWAY LIGHTING ARE ENCOURAGED ALONG PEDESTRIAN ROUTES. LIGHT FIXTURES SHALL BE NO GREATER THAN 25 FEET ABOVE GRADE IN OTHER AREAS (I.E., STREETS, PARKING LOT). BUILDING AND WALL-MOUNTED LIGHTS SHALL ADHERE TO THE HEIGHT STANDARDS OF SUBSECTIONS (C)(1),B.6.I. AND II. ABOVE.
8. PURSUANT TO SEC. 10-260 (10): OUTSIDE BOARDING AND UNSUPERVISED OUTSIDE ACTIVITY ARE PROHIBITED. HOURS OF OPERATION FOR PET DAY CARE CENTERS SHALL BE 6:00 A.M. TO 9:00 P.M. INDOOR OVERNIGHT BOARDING OF PETS IS PERMITTED.

PARCEL NUMBERS
- 4113200240040
- 4113200240050

ZONING: M-1 (LIGHT INDUSTRIAL)

BUILDING SETBACKS (REQUIRED)
PRINCIPLE
FRONT - 25 FEET
SIDE - 0 FEET
REAR - 10 FEET
BUILDING HEIGHT - 2 STORIES

PARKING
REQUIRED: DETERMINED THROUGH PARKING STANDARDS
PROVIDED: 25 SPACES
1 ADA SPACE
4 BIKE SPACES

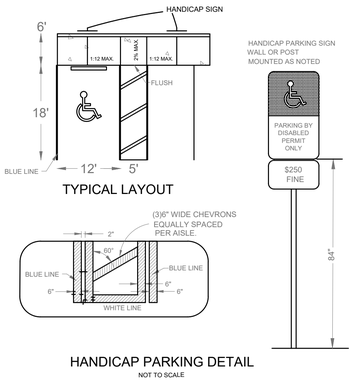
LANDSCAPE ISLANDS
REQUIRED: 1 ISLAND / 4,000 SF VUA - 3 ISLANDS
PROVIDED: 3 ISLANDS

URBAN FOREST
REQUIRED: 10% OF SITE - 8,130 SF
PROVIDED: 9,169 SF

INTENSITY
MAX. ALLOWED 10,000 SF / ACRE = 18,663 SF
PROPOSED 6,390 SF

TABULATION OF DEVELOPMENT AREA

TYPE	EXISTING (SF)	EXISTING %	PROPOSED (SF)	PROPOSED %
TOTAL BUILDING AREA (SF) (FOOTPRINT)	0	0.00	5,260	6.47
TOTAL VEHICULAR USE AREA (SF)	0	0.00	9,019	11.09
MISC. CONCRETE AREA (SF)	2,158	2.65	11,674	14.36
TOTAL IMPERVIOUS AREA (SF)	2,158	2.65	25,953	31.92
GREEN AREA (SF)	79,138	97.35	45,637	56.14
SWMF AREA (SF)	0	0.00	9,106	11.20
POOL AREA (SF)	0	0	600	0.74
TOTAL AREA (SF)	81,296	100.00	81,296	100.00



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TITLE: SITE PLAN

CHERYL CHAMBERS POOLE
CERTIFICATE
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STATE OF
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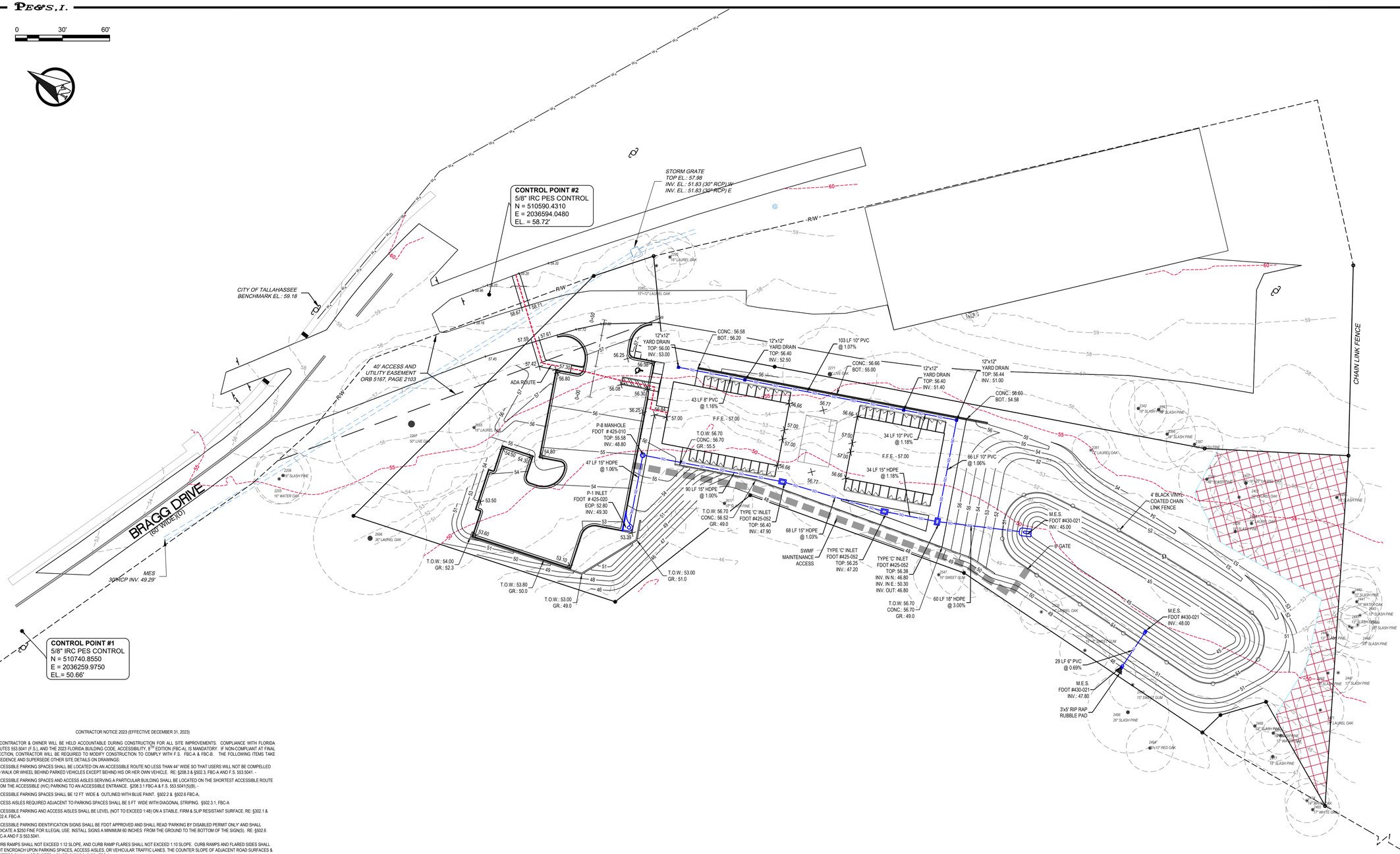
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JOB NUMBER: 22-225

SHEET NUMBER: C-2

PEGS, I.

0 30' 60'



CONTRACTOR NOTICE 2023 (EFFECTIVE DECEMBER 31, 2023)

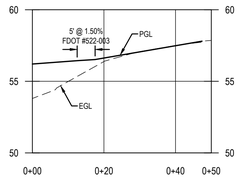
THE CONTRACTOR & OWNER WILL BE HELD ACCOUNTABLE DURING CONSTRUCTION FOR ALL SITE IMPROVEMENTS. COMPLIANCE WITH FLORIDA STATUTES 553.5041 (F.S.), AND THE 2023 FLORIDA BUILDING CODE, ACCESSIBILITY, 8TH EDITION (FBC-A), IS MANDATORY. IF NON-COMPLIANT AT FINAL INSPECTION, CONTRACTOR WILL BE REQUIRED TO MODIFY CONSTRUCTION TO COMPLY WITH F.S. FBC-A & FBC-B. THE FOLLOWING ITEMS TAKE PRECEDENCE AND SUPERSEDE OTHER SITE DETAILS ON DRAWINGS:

1. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE NO LESS THAN 44" WIDE SO THAT USERS WILL NOT BE COMPELLED TO WALK OR WHEEL BEHIND PARKED VEHICLES EXCEPT BEHIND HIS OR HER OWN VEHICLE. RE: §208.3 & §502.3, FBC-A AND F.S. 553.5041. -
2. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE FROM THE ACCESSIBLE (H/C) PARKING TO AN ACCESSIBLE ENTRANCE. §208.3.1 FBC-A & F.S. 553.5041(5)(B). -
3. ACCESSIBLE PARKING SPACES SHALL BE 12 FT WIDE & OUTLINED WITH BLUE PAINT. §502.2 & §502.6 FBC-A.
4. ACCESS AISLES REQUIRED ADJACENT TO PARKING SPACES SHALL BE 5 FT WIDE WITH DIAGONAL STRIPING. §502.3.1, FBC-A
5. ACCESSIBLE PARKING AND ACCESS AISLES SHALL BE LEVEL (NOT TO EXCEED 1:48) ON A STABLE, FIRM & SLIP RESISTANT SURFACE. RE: §302.1 & §502.4. FBC-A
6. ACCESSIBLE PARKING IDENTIFICATION SIGNS SHALL BE FDOT APPROVED AND SHALL READ "PARKING BY DISABLED PERMIT ONLY" AND SHALL INDICATE A $250 FINE FOR ILLEGAL USE. INSTALL SIGNS A MINIMUM 60 INCHES FROM THE GROUND TO THE BOTTOM OF THE SIGN(S). RE: §502.6 FBC-A AND F.S 553.5041.
7. CURB RAMPS SHALL NOT EXCEED 1:12 SLOPE, AND CURB RAMP FLARES SHALL NOT EXCEED 1:10 SLOPE. CURB RAMPS AND FLARED SIDES SHALL NOT ENCROACH UPON PARKING SPACES, ACCESS AISLES, OR VEHICULAR TRAFFIC LANES. THE COUNTER SLOPE OF ADJACENT ROAD SURFACES & GUTTERS SHALL NOT EXCEED 1:20. RE: §405.2 & §406., FBC-A
8. CURB RAMPS SHALL HAVE A LANDING WITH A MINIMUM CLEAR LENGTH AND WIDTH OF 36" SHALL BE LOCATED AT THE TOP SIDE OF EACH CURB RAMP. A CLEAR WIDTH AT LEAST AS WIDE AS THE CURB RAMP (EXCLUDING FLARED SIDES) LEADING TO IT. EXCEPTION: FOR ALTERATIONS, WHERE THERE IS NO LANDING, CURB RAMP FLARES SHALL BE PROVIDED, AND SHALL NOT BE STEEPER THAN 1:12 SLOPE. RE: §406.4 FBC-A
9. ALL RAMPS WITH A RISE GREATER THAN 6 INCHES SHALL PROVIDE EDGE PROTECTION COMPLYING WITH §405.9 FAC-A. RAMPS SHALL HAVE 60 INCHES MIN LEVEL LANDINGS AT THE TOP & BOTTOM. RE: §405.7. FBC-A.
10. ALL RAMPS WITH A RISE GREATER THAN 6" SHALL HAVE HANDRAILS ON BOTH SIDES WITH 12" HORIZONTAL EXTENSIONS AT THE TOP & BOTTOM OF THE RAMP. MAXIMUM RISE OF A RAMP RUN IS 30 INCHES ON AN ACCESSIBLE ROUTE. RE: §1012.8 FBC-B (FLORIDA BUILDING CODE - BUILDING) AND §505.10 FBC-A.
11. ACCESSIBLE ROUTES TO "MAIN ENTRY" FROM AN ACCESSIBLE PARKING SPACE, AND FROM THE "PUBLIC WAY", SHALL NOT EXCEED 1:20 SLOPE UNLESS RAMPS WITH PROPER HANDRAILS & HANDRAIL EXTENSIONS ARE PROVIDED AND WITH A CROSS SLOPE NOT IN EXCESS OF 1:48. RE: §206, §402 AND §403., FBC-A.
12. *CONNECT BUILDINGS WITHIN THE SAME SITE WITH AN ACCESSIBLE ROUTE WHICH SHALL NOT EXCEED 1:20 SLOPE (UNLESS RAMPS AND HANDRAILS ARE PROVIDED) AND A MAXIMUM CROSS SLOPE OF 1:48. RE: §206 FBC-A.

* EXCEPTION: AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED BETWEEN ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES IF THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY NOT PROVIDING PEDESTRIAN ACCESS. RE: §206.2.2 FBC-A

NOTES:

1. BEARINGS SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE, (NAD 83/2011) AND ARE GRID BEARINGS.
2. NO UNDERGROUND FOOTERS ARE LOCATED BY THIS SURVEY.
3. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
4. MEASUREMENTS SHOWN HEREON ARE U.S. FEET AND HORIZONTAL DISTANCES.
5. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (U.S. SURVEY FOOT).
6. FLOOD INSURANCE RATE MAPS INDICATE THE PROPERTY SHOWN HEREON IS LOCATED IN FLOOD ZONE "X" AS INDICATED ON PANEL NO. 12073C 0276F, LEON COUNTY, FLORIDA DATED 08-18-2009.



SCALE: H. 1"=20'
V. 1"=5'

POOLE ENGINEERING & SURVEYING, Inc.
2145 DELTA BLVD. ● TALLAHASSEE, FL. 32303 ● (850)386-5117 ● LICENSE NO: 6745
17320 PANAMA CITY BEACH PARKWAY, STE. 111 ● PANAMA CITY BEACH, FL 32413
● WWW.POOLE-ENG.COM ●

REVISED: 11/19/24 - RTC

DATE: 11/06/24
SCALE: 1" = 30'
DRAWN BY: PES

PROJECT: PETROPOLIS

TITLE: GRADING PLAN

CHERYL L. CHAMBERS-POOLE
CERTIFICATE NUMBER
No. 42037
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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JOB NUMBER: 22-225

SHEET NUMBER: C-3

PEGS, I.

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REVISED: 11/19/24 - RTC

DATE:	11/06/24
SCALE:	1" = 10'
DRAWN BY:	PES

PROJECT: PETROPOLIS

TITLE: GRADING PLAN DETAIL

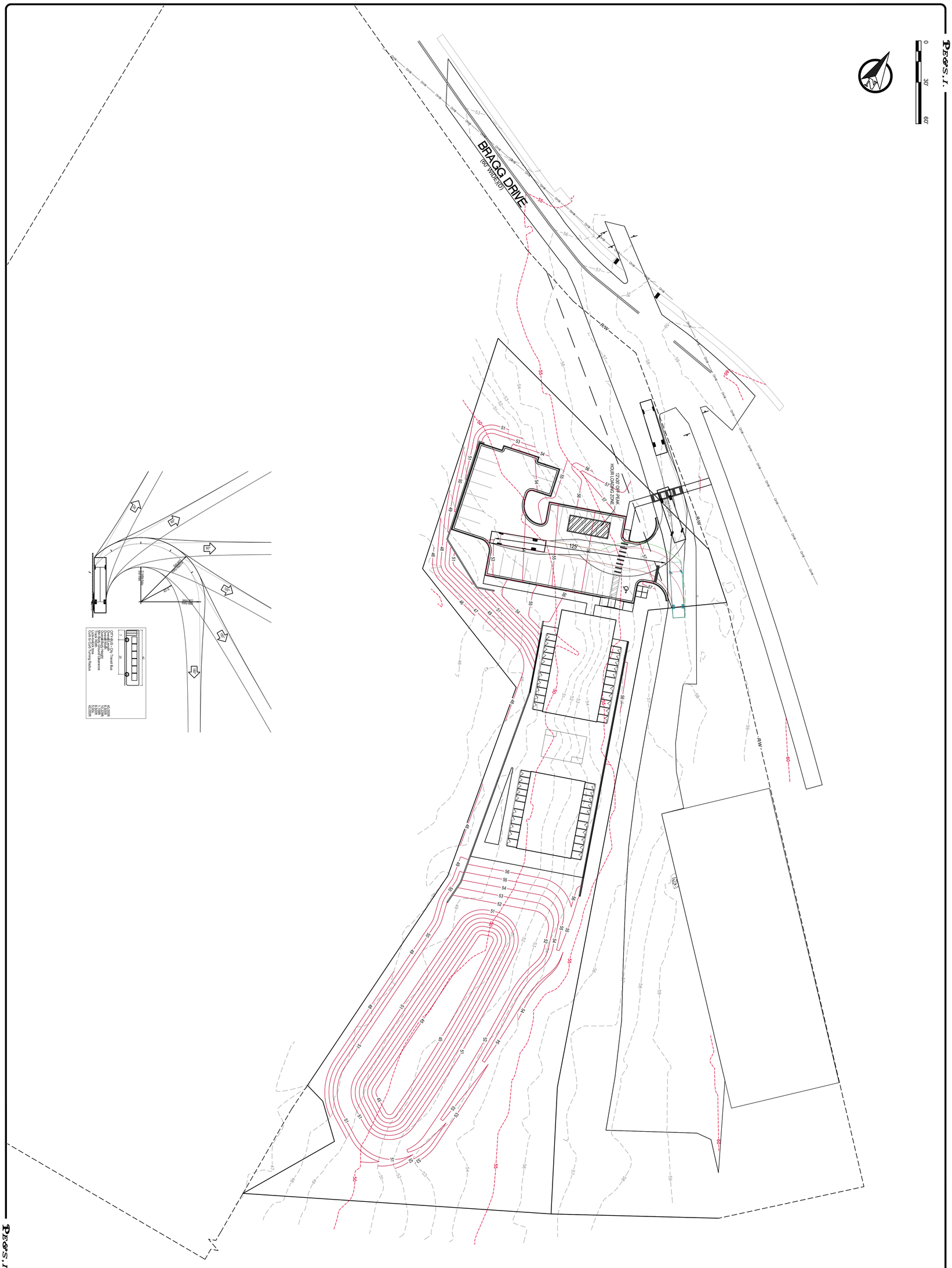
CHERYL CHAMBERLIS POOLE CERTIFICATE No. 42037 STATE OF FLORIDA PROFESSIONAL ENGINEER

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JOB NUMBER: 22-225

SHEET NUMBER: C-4

PEGS, I.



PROJECT:
PETROPOLIS

TITLE:
VEHICLE TRACKING

DATE:	11/06/24
SCALE:	1" = 30'
DRAWN BY:	PES

REVISED:
11/19/24 - RTC

POOLE ENGINEERING & SURVEYING, Inc.
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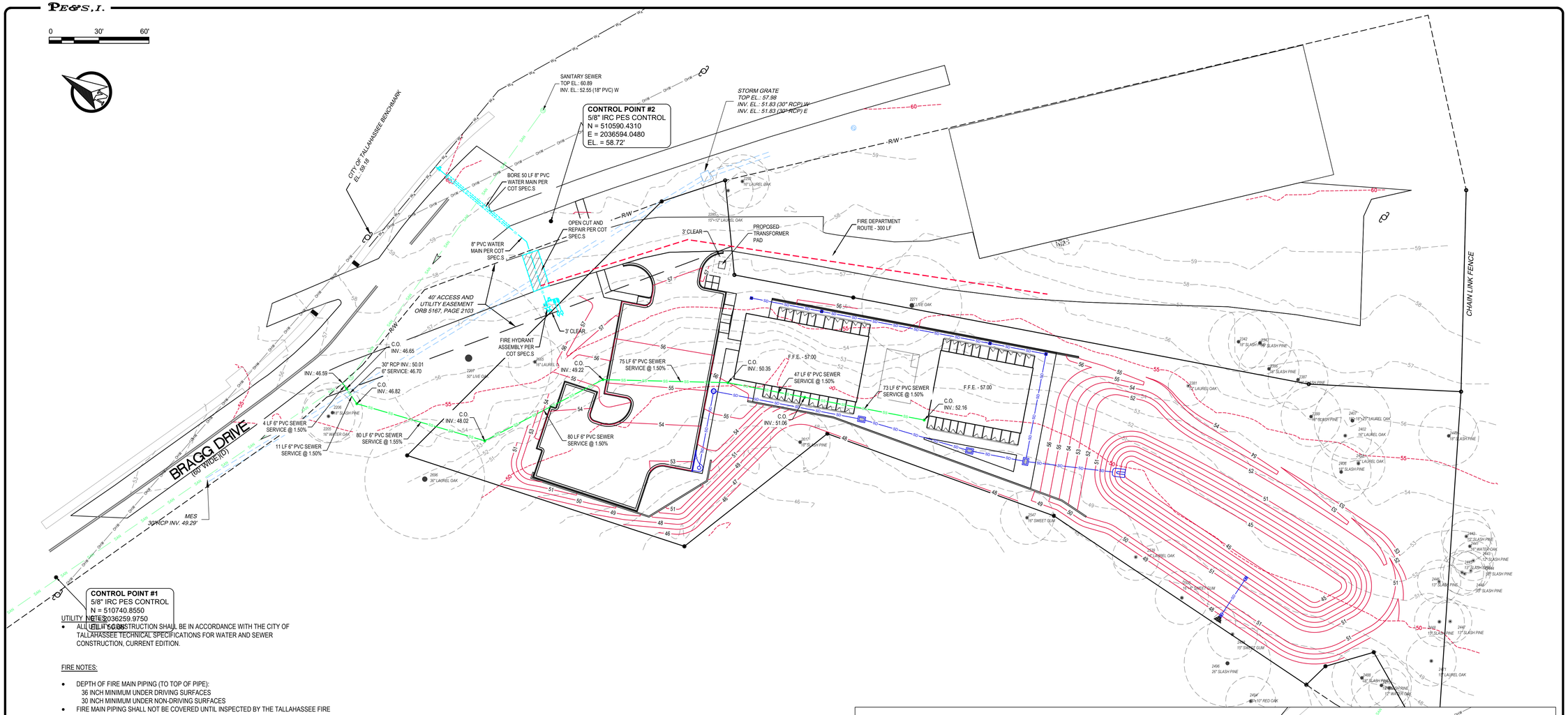
JOB NUMBER:
22-225

SHEET NUMBER:
C-5

CHERYL CHAMBERS
CERTIFICATE NO.
42037
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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0 30' 60'

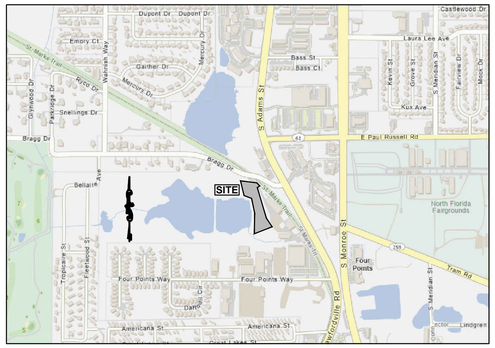


UTILITY NOTES:

- ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF TALLAHASSEE TECHNICAL SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION, CURRENT EDITION.

FIRE NOTES:

- DEPTH OF FIRE MAIN PIPING (TO TOP OF PIPE):
  36 INCH MINIMUM UNDER DRIVING SURFACES
  30 INCH MINIMUM UNDER NON-DRIVING SURFACES
- FIRE MAIN PIPING SHALL NOT BE COVERED UNTIL INSPECTED BY THE TALLAHASSEE FIRE DEPARTMENT.
- FIRE HYDRANTS SHALL BE A MINIMUM OF 24 INCH ABOVE GRADE MEASURED TO THE CENTER OF THE STEAMER NOZZLE.
- STEAMER NOZZLE TO FACE ROADWAY OR NEAREST POINT OF FIRE DEPARTMENT APPARATUS ACCESSIBILITY WHEN PLACED IN SERVICE.
- A MINIMUM OF 36 IN. CLEAR SPACE SHALL BE MAINTAINED TO PERMIT ACCESS TO (AND OPERATION OF) FIRE PROTECTION EQUIPMENT, FIRE DEPARTMENT INLET CONNECTIONS, AND/OR FIRE PROTECTION SYSTEM CONTROL VALVES.
- A CLEAR SPACE OF NOT LESS THAN 60 IN. SHALL BE PROVIDED IN FRONT OF EACH HYDRANT CONNECTION HAVING A DIAMETER GREATER THAN 2-1/2 INCHES.

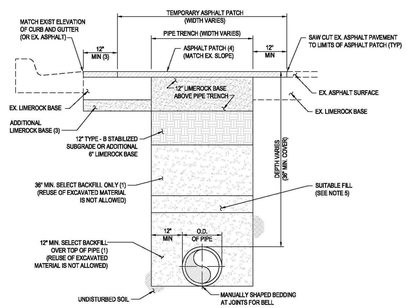


VICINITY MAP
(NOT TO SCALE)

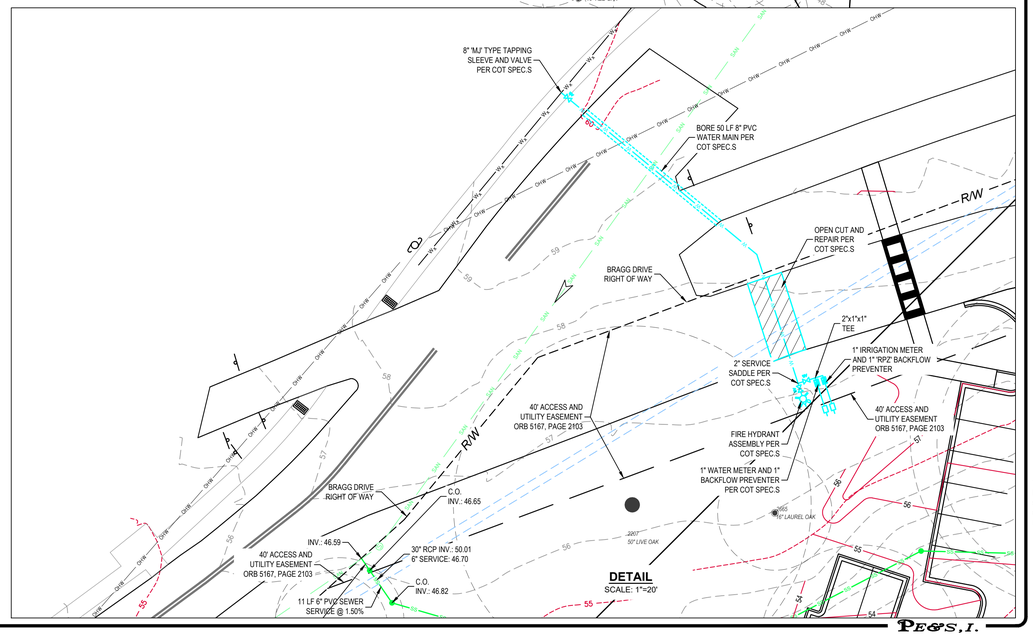
NOTES:

1. TRENCH BACKFILL SHALL BE "SELECT BACKFILL" MATERIAL IN ACCORDANCE WITH THE CITY OF TALLAHASSEE TECHNICAL SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION.
2. THE TECHNICAL SPECIFICATIONS SHALL APPLY FOR ALL OTHER REQUIREMENTS NOT SUPERCEDED BY THIS DETAIL FOR ALL EXCAVATING, BACKFILLING, AND COMPACTING FOR UTILITIES.
3. TRENCHES WITH ASPHALT PATCHES THAT ARE CLOSER THAN 12" TO THE CURB AND GUTTER OR EDGE OF PAVEMENT SHALL HAVE CONTINUOUS 12" LIMEROCK BASE AND 2" MIN. ASPHALT PATCH TO THE CURB AND GUTTER OR EDGE OF PAVEMENT.
4. THESE SECTIONS SHALL BE IN ACCORDANCE WITH THE CITY OF TALLAHASSEE PUBLIC INFRASTRUCTURE DEPARTMENT FLEXIBLE PAVEMENT DESIGN, CURRENT EDITION.
5. SUITABLE FILLS LIMITED TO SELECT SAND AND PLASTIC MATERIAL IN ACCORDANCE WITH F.D.O.T., INDEX 505.
6. NO ORGANIC MATERIALS AND PARTICLES EXCEEDING 4" IN DIAMETER WILL BE PERMITTED.

MINIMUM ASPHALT THICKNESS	
LOCAL STREETS	2.0"
MINOR COLLECTORS	2.5"
MAJOR COLLECTORS	3.0"
MINOR ARTERIALS	3.5"
MAJOR ARTERIALS	4.0"



PIPE TRENCH AND ASPHALT PATCH WITHIN PUBLIC ROW AND ALL IMPROVED AREAS
N.T.S.



DETAIL
SCALE: 1"=20'

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● WWW.POOLE-ENG.COM ●

REVISED:
11/19/24 - RTC

DATE: 11/06/24
SCALE: 1" = 30'
DRAWN BY: PES

PROJECT:
PETROPOLIS

TITLE:
CONCEPT UTILITY PLAN

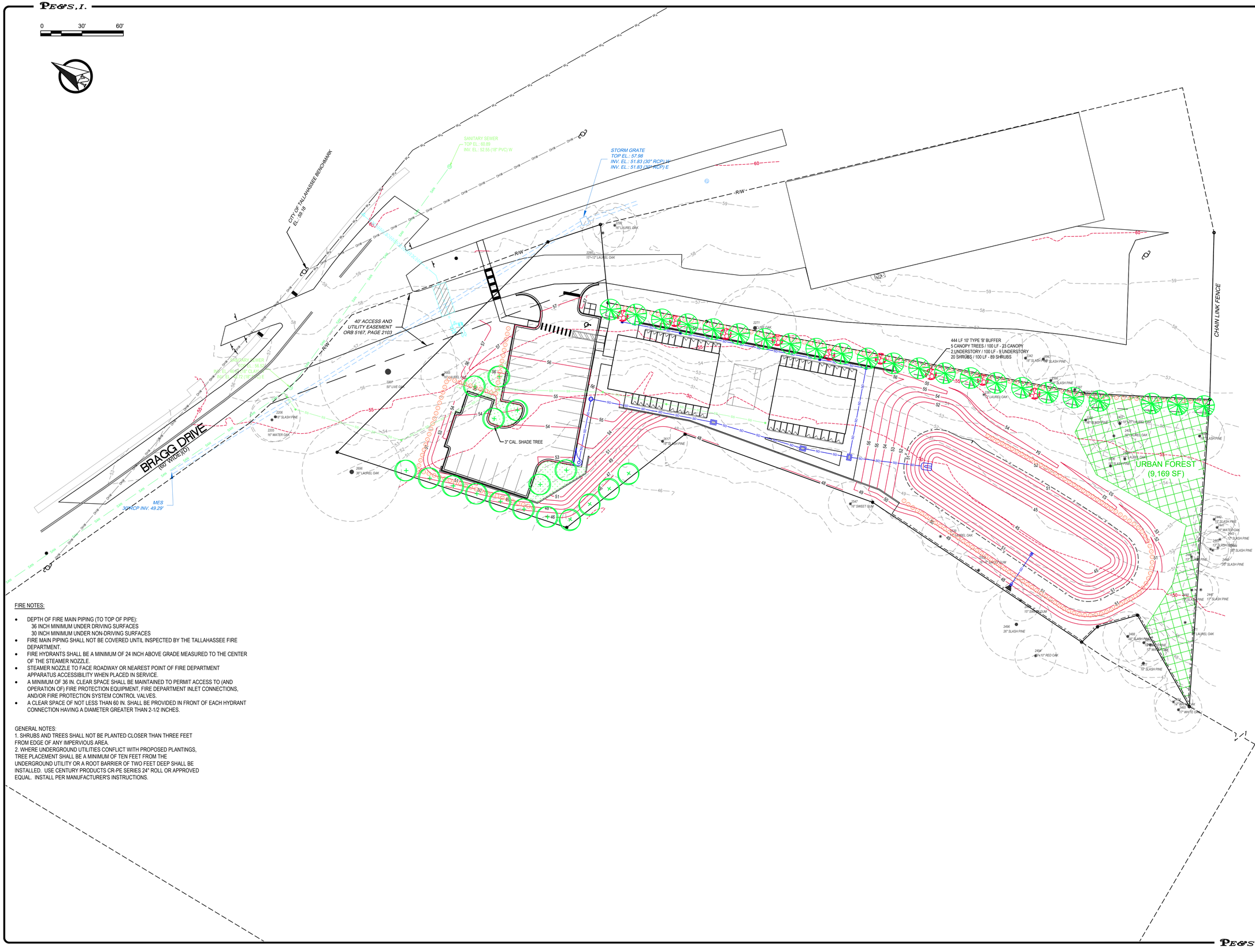
CHERYL CHAMBERS
CERTIFICATE NO.
No. 42037
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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JOB NUMBER:
22-225

SHEET NUMBER:
U-1

0 30' 60'



FIRE NOTES:

- DEPTH OF FIRE MAIN PIPING (TO TOP OF PIPE):
  36 INCH MINIMUM UNDER DRIVING SURFACES
  30 INCH MINIMUM UNDER NON-DRIVING SURFACES
- FIRE MAIN PIPING SHALL NOT BE COVERED UNTIL INSPECTED BY THE TALLAHASSEE FIRE DEPARTMENT.
- FIRE HYDRANTS SHALL BE A MINIMUM OF 24 INCH ABOVE GRADE MEASURED TO THE CENTER OF THE STEAMER NOZZLE.
- STEAMER NOZZLE TO FACE ROADWAY OR NEAREST POINT OF FIRE DEPARTMENT APPARATUS ACCESSIBILITY WHEN PLACED IN SERVICE.
- A MINIMUM OF 36 IN. CLEAR SPACE SHALL BE MAINTAINED TO PERMIT ACCESS TO (AND OPERATION OF) FIRE PROTECTION EQUIPMENT, FIRE DEPARTMENT INLET CONNECTIONS, AND/OR FIRE PROTECTION SYSTEM CONTROL VALVES.
- A CLEAR SPACE OF NOT LESS THAN 60 IN. SHALL BE PROVIDED IN FRONT OF EACH HYDRANT CONNECTION HAVING A DIAMETER GREATER THAN 2-1/2 INCHES.

GENERAL NOTES:
1. SHRUBS AND TREES SHALL NOT BE PLANTED CLOSER THAN THREE FEET FROM EDGE OF ANY IMPERVIOUS AREA.
2. WHERE UNDERGROUND UTILITIES CONFLICT WITH PROPOSED PLANTINGS, TREE PLACEMENT SHALL BE A MINIMUM OF TEN FEET FROM THE UNDERGROUND UTILITY OR A ROOT BARRIER OF TWO FEET DEEP SHALL BE INSTALLED. USE CENTURY PRODUCTS CR-PE SERIES 24" ROLL OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

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REVISED:
11/19/24 - RTC

DATE: 11/06/24
SCALE: 1" = 30'
DRAWN BY: PES

PROJECT:
PETROPOLIS

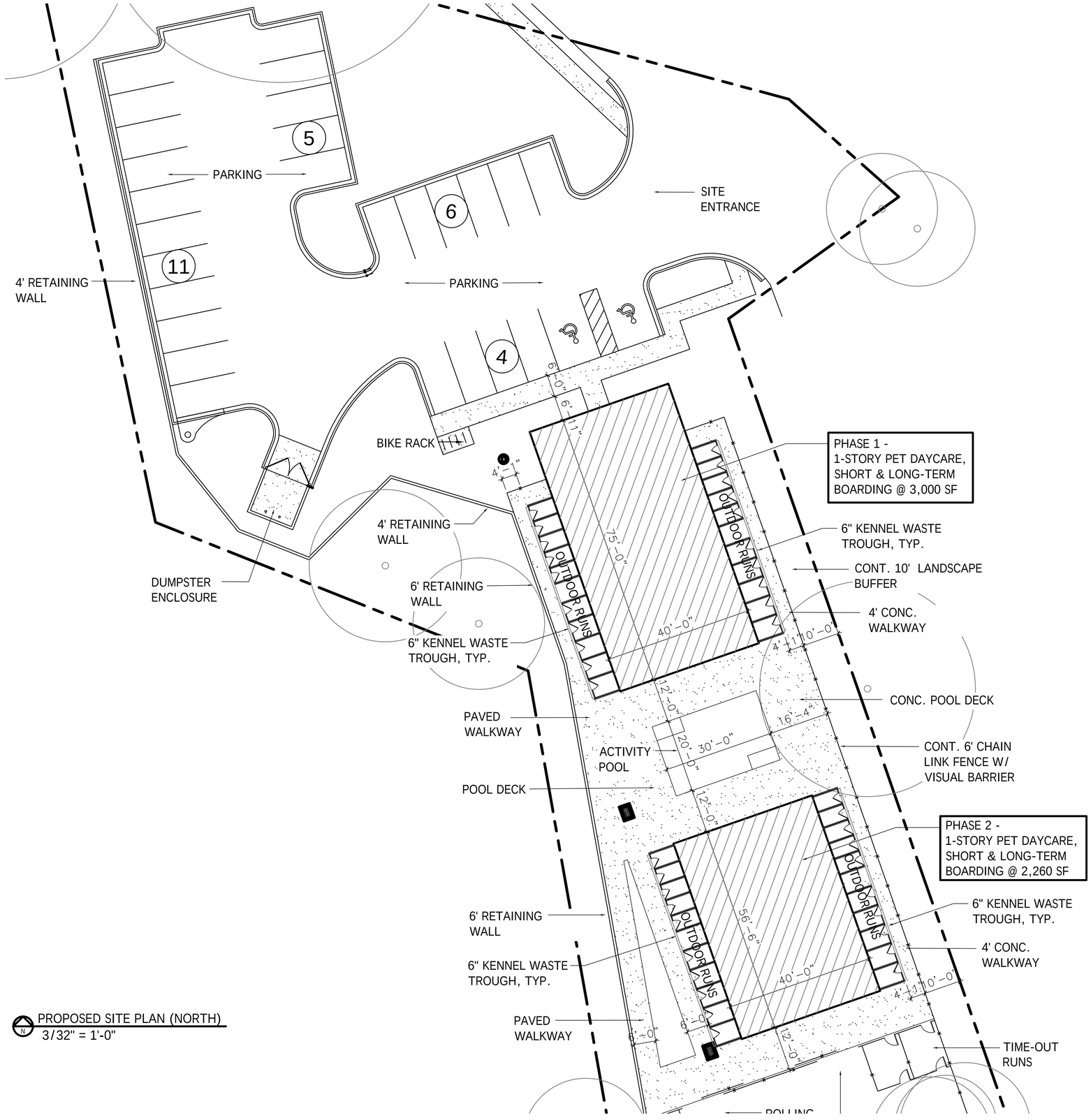
TITLE:
CONCEPT LANDSCAPE PLAN

CHERYL CHAMBERS POOLE
CERTIFICATE
No. 42037
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

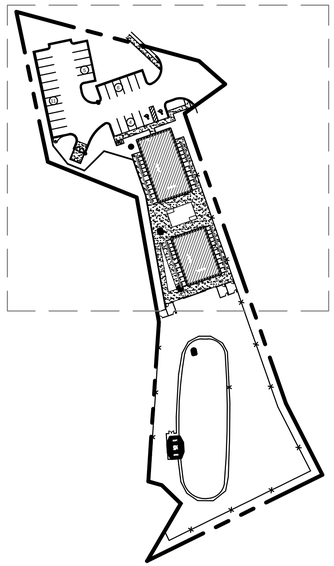
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JOB NUMBER:
22-225

SHEET NUMBER:
L-1



PROPOSED SITE PLAN (NORTH)
3/32" = 1'-0"



SITE KEY PLAN
1/64" = 1'-0"

SHARP
DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

No.	Description	Date

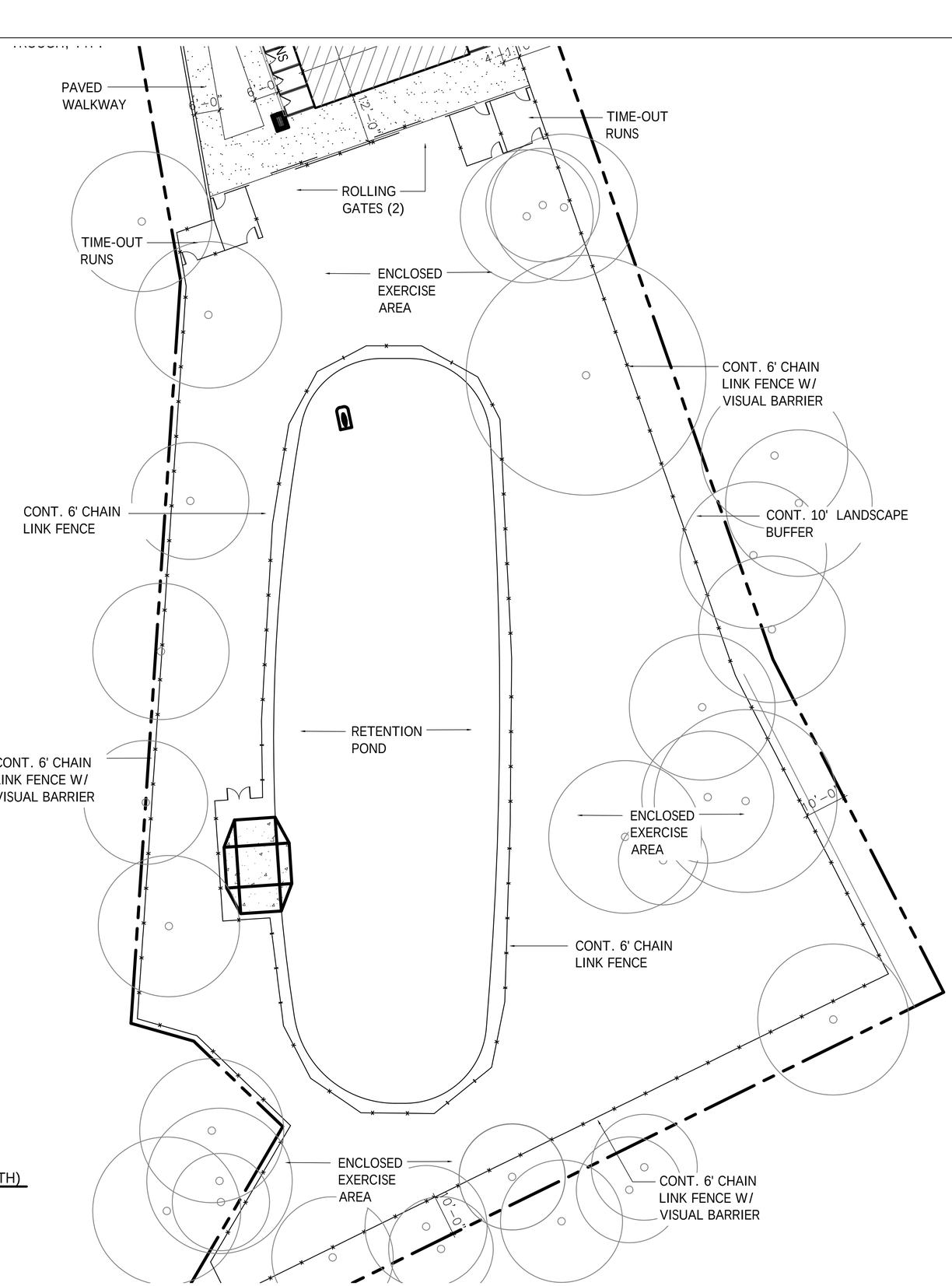
PETROPOLIS
MASCOTAS FELICES CLUB

Phase 1 & 2
Prop. Site Plan

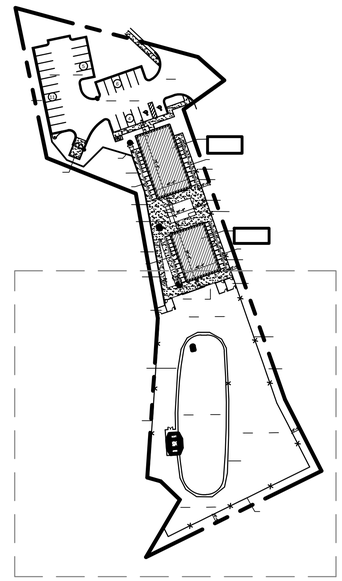
Project Number	
Date	10/24/24
Drawn By	SM
Checked By	DD

AS1

Scale 3/32" = 1'-0"



PROPOSED SITE PLAN (SOUTH)
3/32" = 1'-0"



SITE KEY PLAN
1/64" = 1'-0"

SHARP
DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

No.	Description	Date

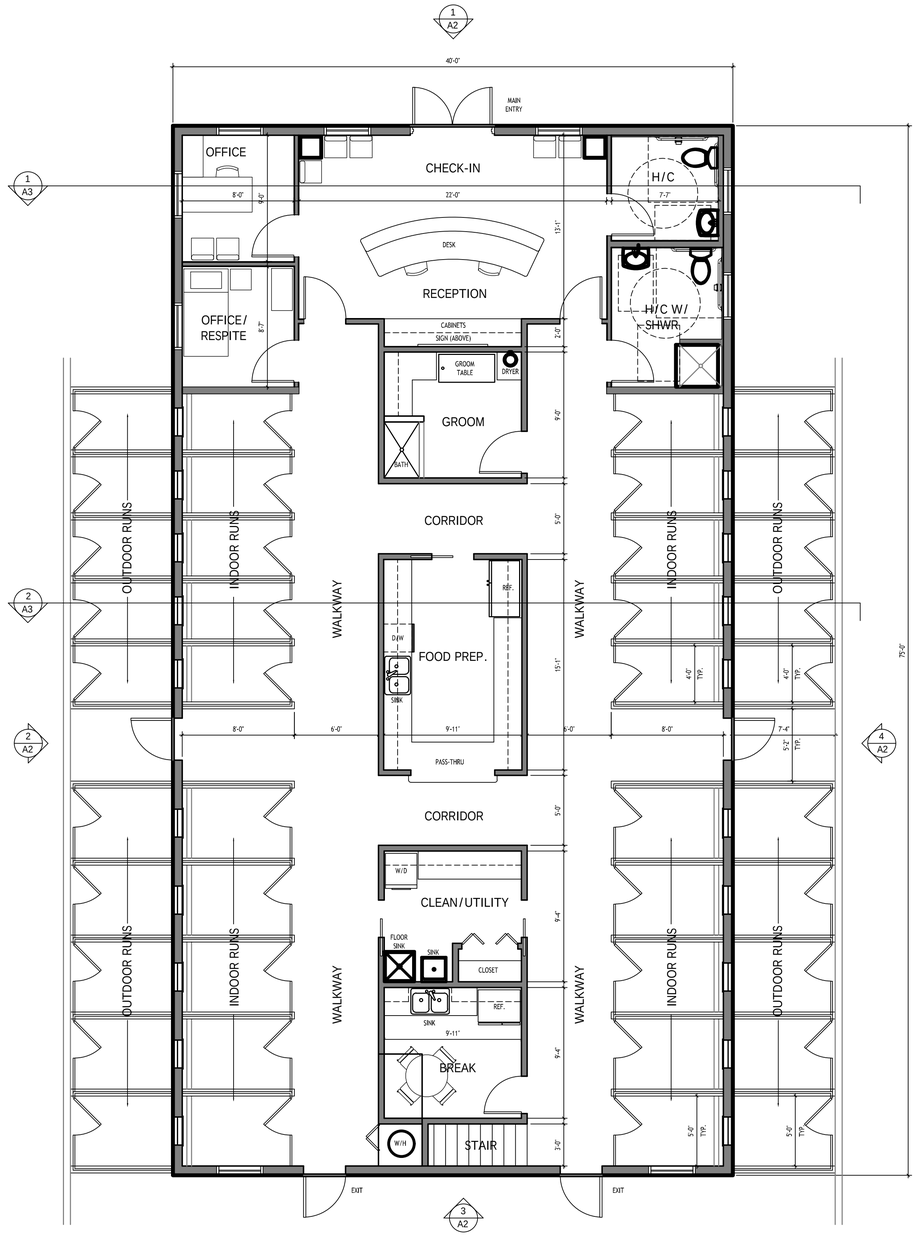
PETROPOLIS
MASCOTAS FELICES CLUB

Phase 1 & 2
Prop. Site Plan

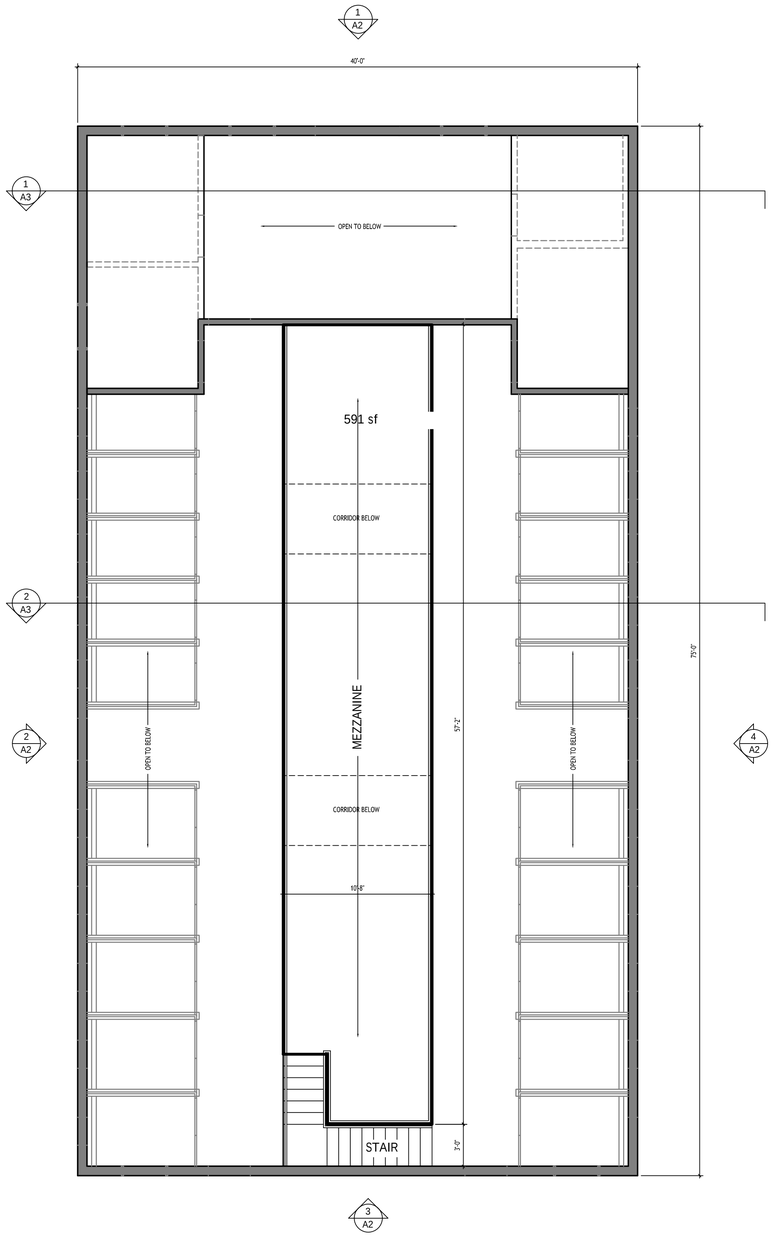
Project Number	
Date	10/24/24
Drawn By	SM
Checked By	DD

AS2

Scale 3/32" = 1'-0"



1 PHASE 1 - PROP. FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 PHASE 1 - PROP. MEZZANINE PLAN
SCALE: 1/4" = 1'-0"

SHARP
DESIGN STUDIO
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TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

No.	Description	Date

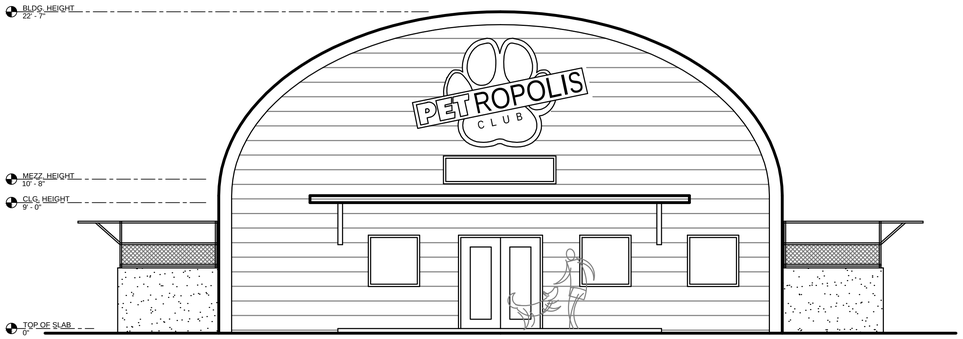
PETROPOLIS
MASCOTAS FELICES CLUB

Phase 1 Proposed Floor Plans

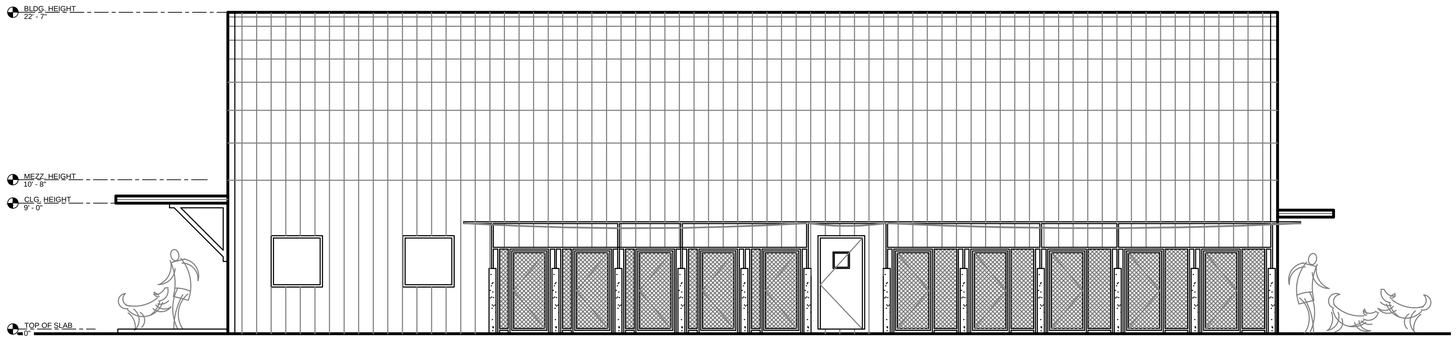
Project Number	
Date	10/24/24
Drawn By	SM
Checked By	DD

A1

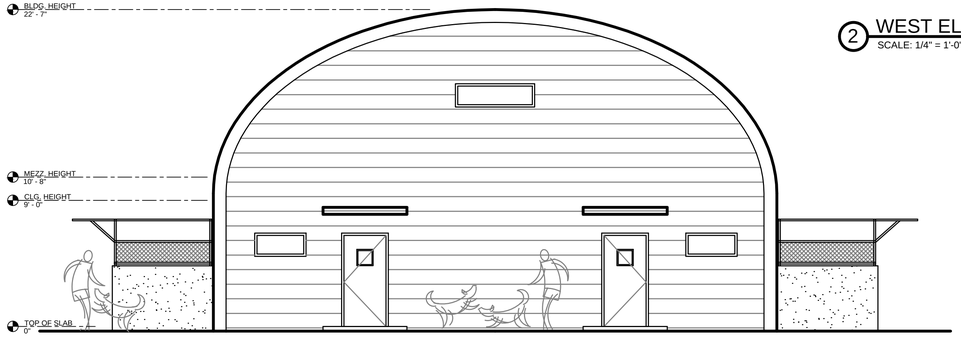
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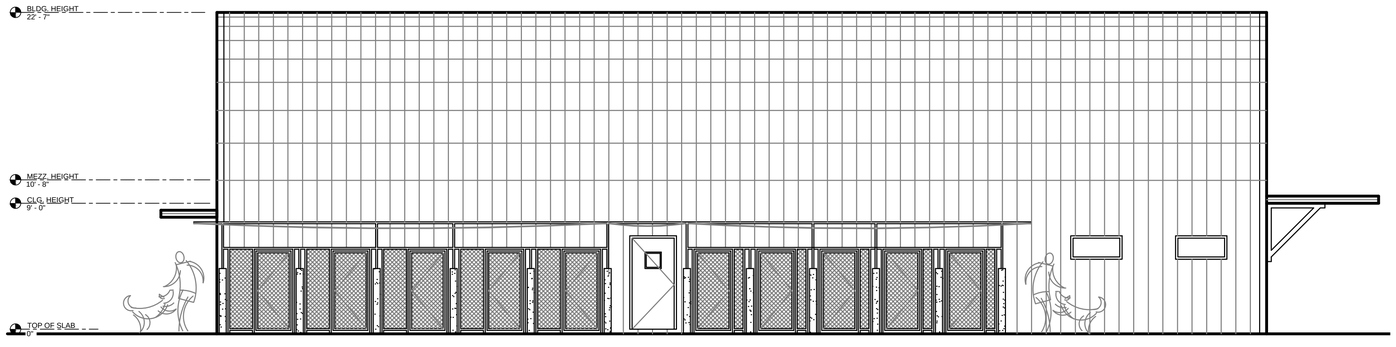
1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



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



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



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

SHARP
DESIGN STUDIO
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No.	Description	Date

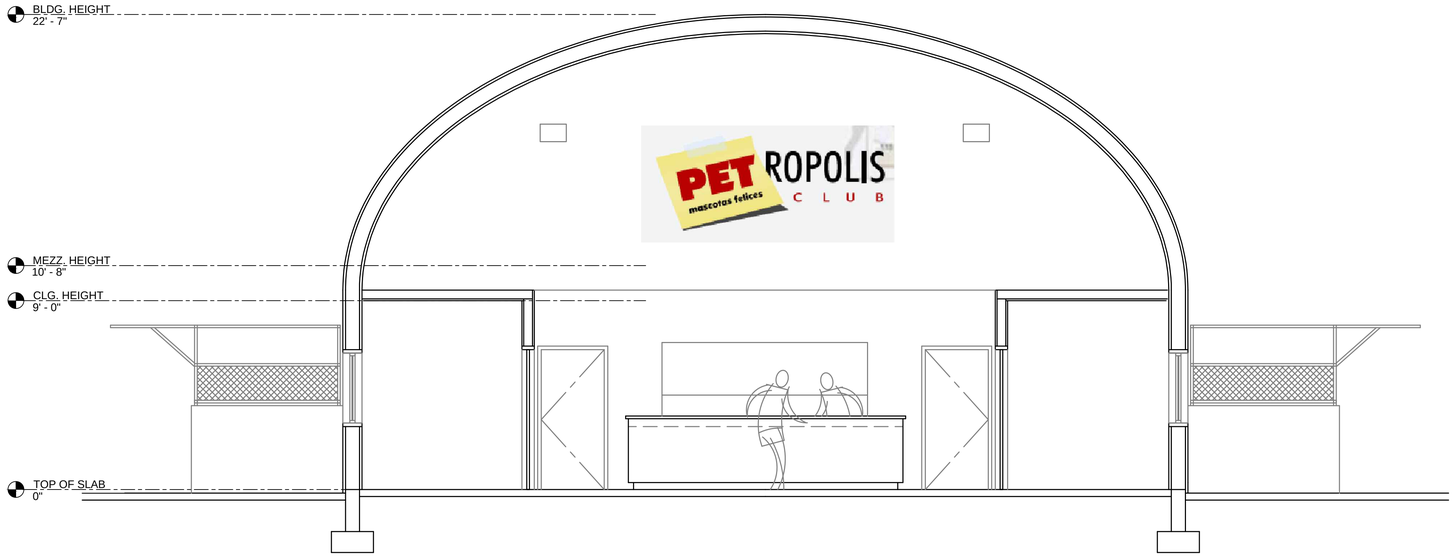
PETROPOLIS
MASCOTAS FELICES
CLUB

Phase 1 Proposed
Ext. Elevations

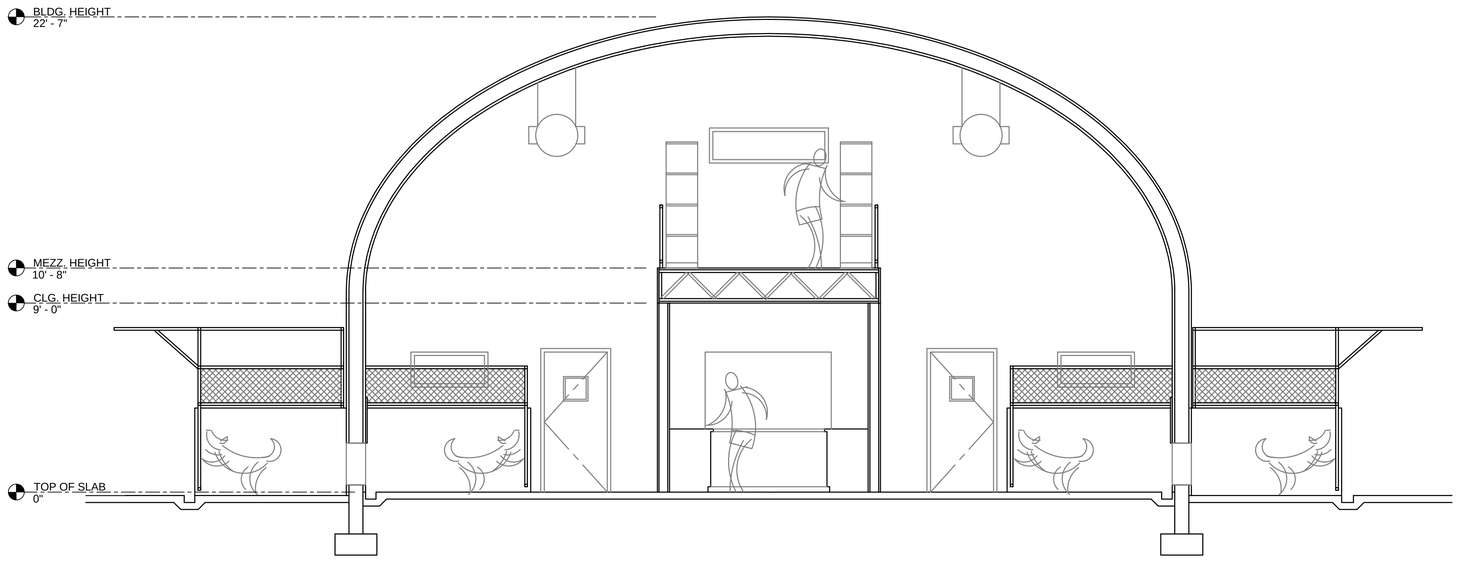
Project Number	
Date	10/24/24
Drawn By	SM
Checked By	DD

A2

Scale	1/4" = 1'-0"



1 PROP. BLDG. SECTION
SCALE: 3/8" = 1'-0"



2 PROP. BLDG. SECTION
SCALE: 3/8" = 1'-0"

SHARP
DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
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No.	Description	Date

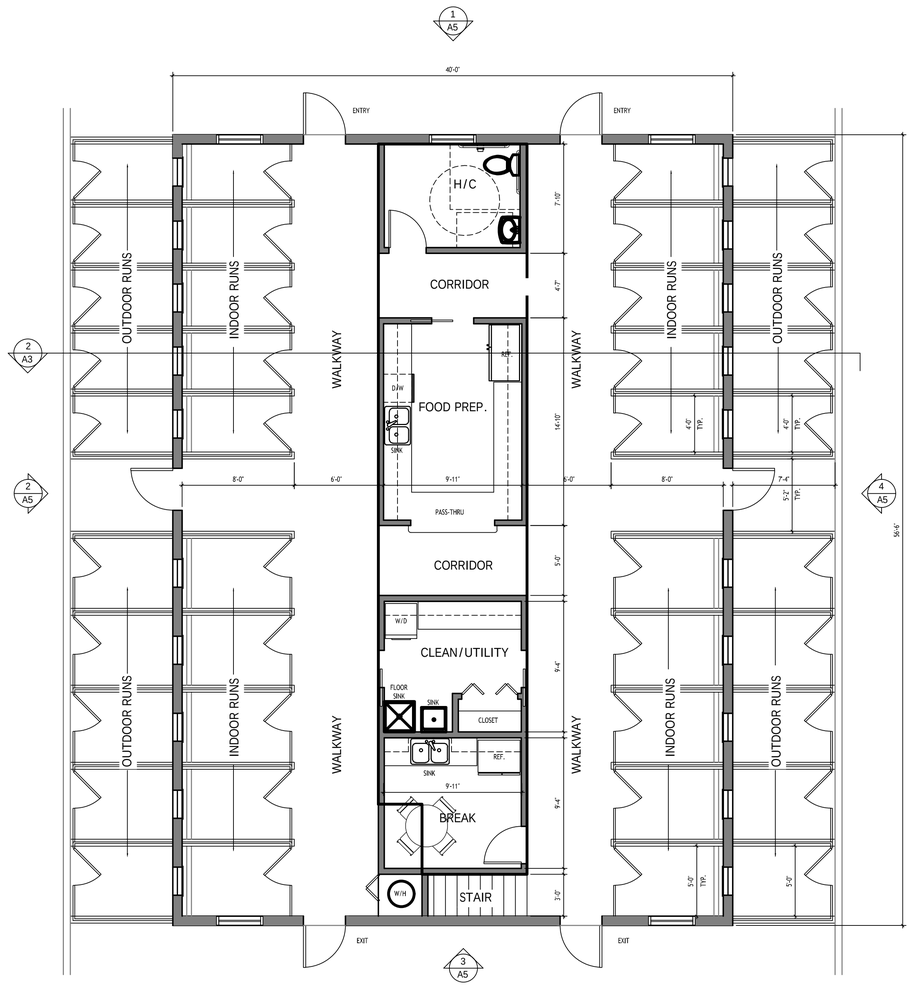
PETROPOLIS
MASCOTAS FELICES
CLUB

Phase 1 Proposed
Ext. Elevations

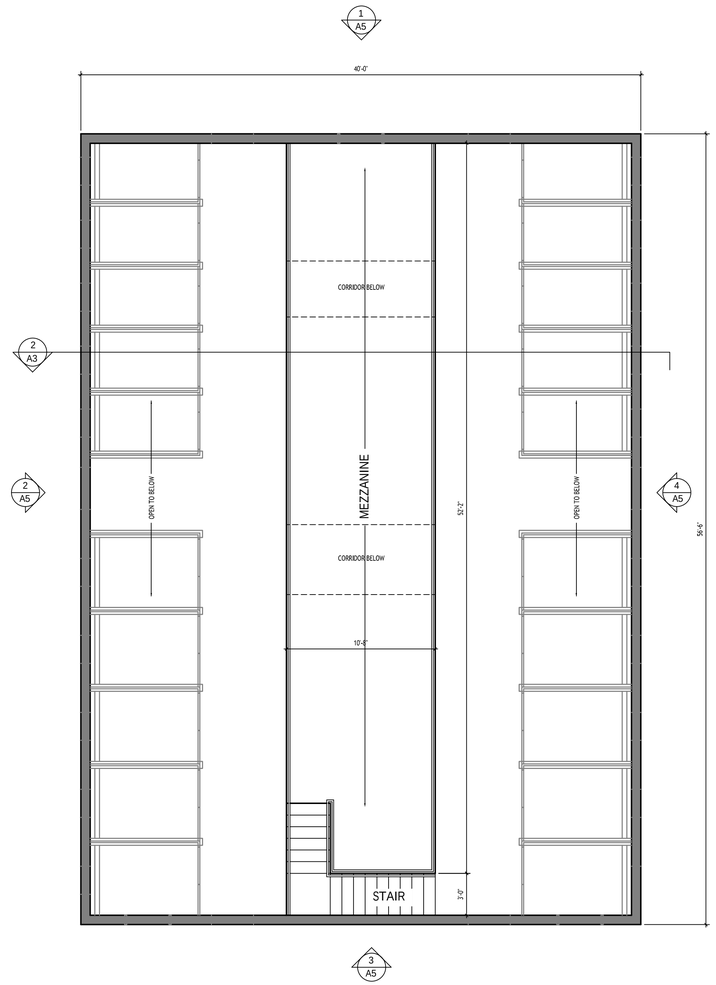
Project Number	
Date	10/24/24
Drawn By	SM
Checked By	DD

A3

Scale	1/4" = 1'-0"



1 PHASE 2 - PROP. FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 PHASE 2 - PROP. MEZZANINE PLAN
SCALE: 1/4" = 1'-0"

SHARP
DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

No.	Description	Date

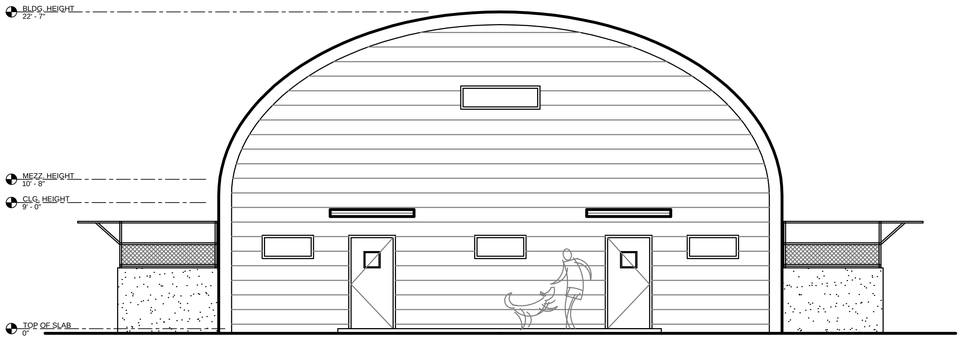
PETROPOLIS
MASCOTAS FELICES CLUB

Phase 2 Proposed Floor Plans

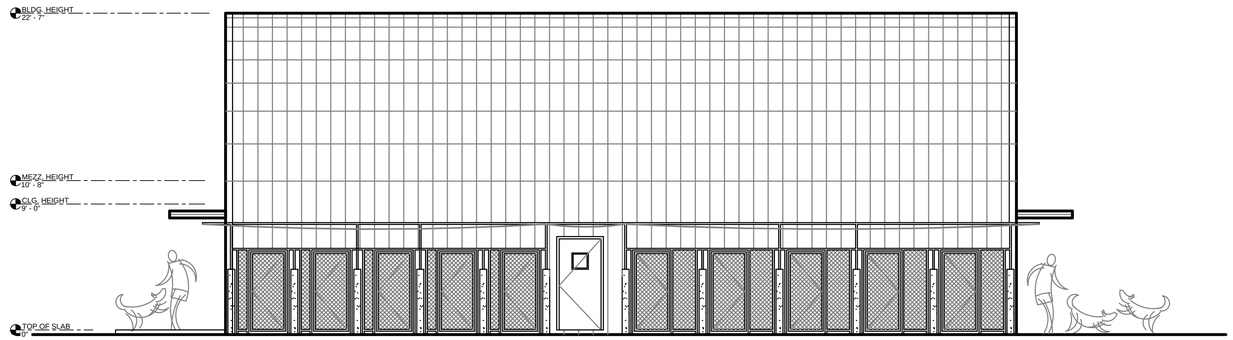
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Date	10/24/24
Drawn By	SM
Checked By	DD

A4

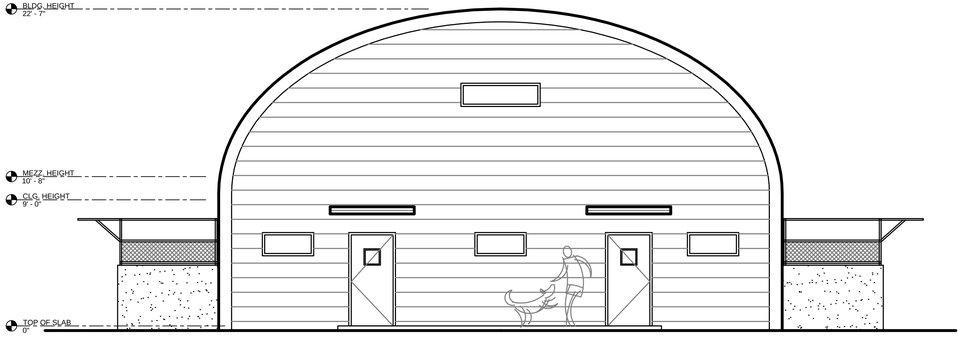
Scale	1/4" = 1'-0"



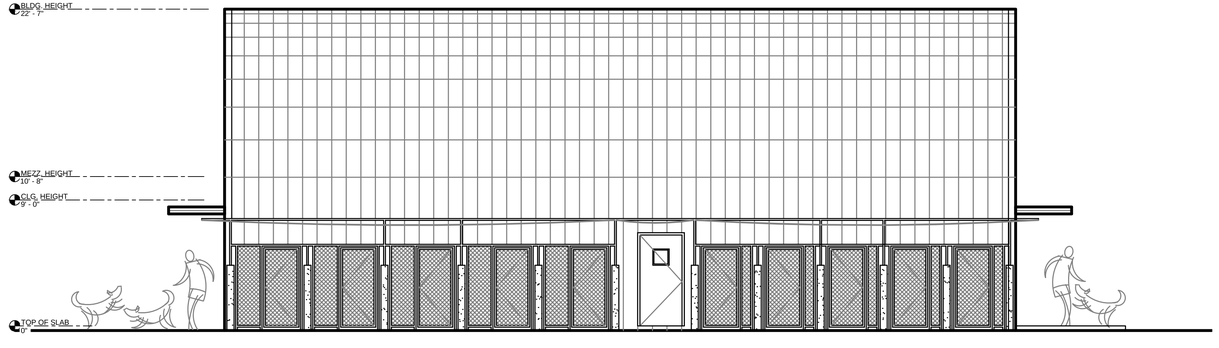
1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



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



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



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

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AA26003627

No.	Description	Date

PETROPOLIS
MASCOTAS FELICES CLUB

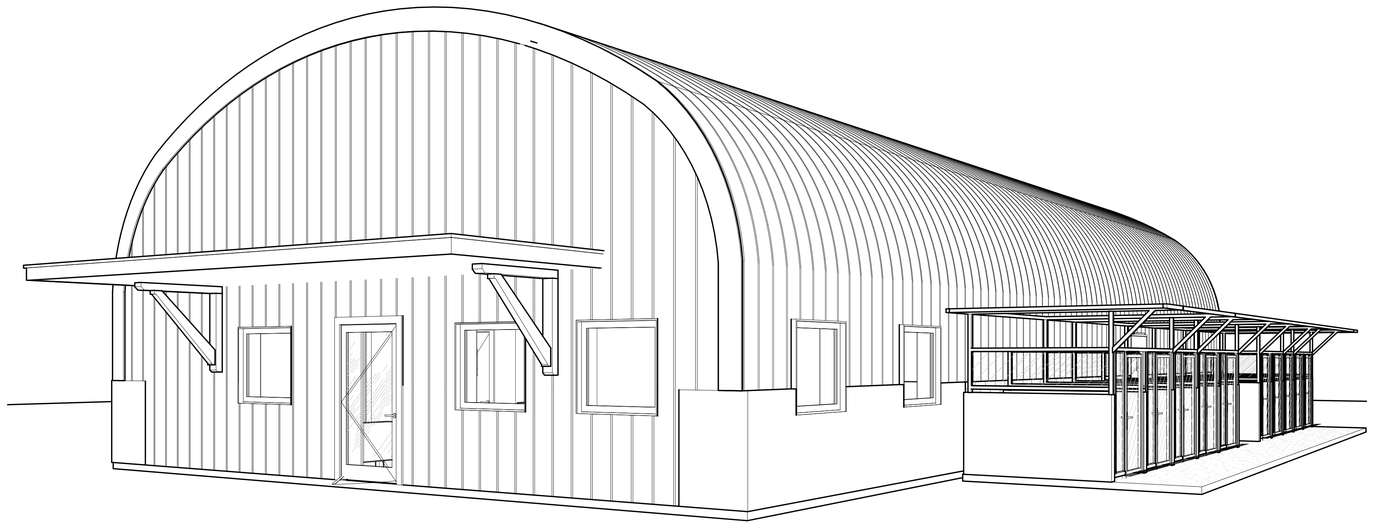
Phase 2 Proposed Ext. Elevations

Project Number	
Date	10/24/24
Drawn By	SM
Checked By	DD

A5

Scale 1/4" = 1'-0"

PETROPOLIS PHASE 1

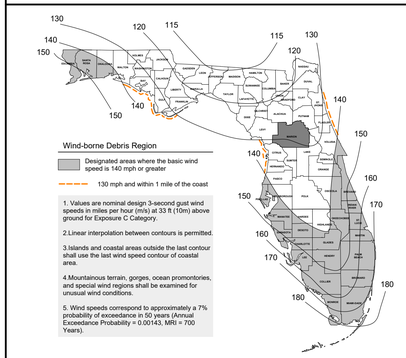


PROJECT DESCRIPTION

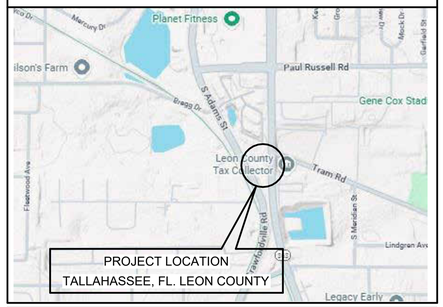
ENGINEERING CRITERIA

WIND SPEED: 120 M.P.H.
EXPOSURE: C
RISK CATEGORY: II
WIND BORNE DEBRIS REGION: YES
GLAZED OPENINGS SHALL BE PROTECTED

VICINITY/WIND BORNE DEBRIS MAP



LOCATION MAP



SHEET INDEX

SHEET #	SHEET NAME	DRAWINGS ISSUED
GENERAL		
G001	PROJECT INFORMATION & NOTES	
G002	ACCESSIBILITY DIAGRAMS	
G003	LIFE SAFETY PLAN FIRST FLOOR	
G004	LIFE SAFETY PLAN MEZZANINE	
G005	WALL PARTITION	
G006	WALL PARTITION	
STRUCTURAL		
S100	STRUCTURAL NOTES	
S200	FOUNDATION PLAN	
S201	RETAINING WALL PLAN	
S300	MAIN FLOOR STRUCTURAL PLAN	
S400	DETAILS	
S401	DETAILS	
ARCHITECTURE		
A100	ARCH. SITE PLAN	
A101	PLUMBING SLAB PLAN	
A102	FLOOR PLAN FIRST LEVEL	
A103	FLOOR PLAN MEZZANINE	
A104	REFLECTED CEILING PLAN. FIRST LEVEL	
A105	REFLECTED CEILING PLAN. MEZZANINE (VAULT)	
A106	FINISH PLAN & SCHEDULES. FIRST LEVEL	
A107	FINISH PLAN & SCHEDULES. MEZZANINE	
A108	ROOF PLAN	
A200	NORTH-WEST & NORTH-EAST ELEVATIONS	
A201	SOUTH-EAST & SOUTH-WEST ELEVATIONS	
A300	BUILDING SECTIONS	
A301	WALL SECTIONS	
A302	WALL SECTIONS	
A400	ENLARGED H/C	
A401	ENLARGED H/C W/ SHWR	
A402	ENLARGED GROOM LOCAL	
A403	ENLARGED FOOD PREP	
A404	ENLARGED CLEAN / UTYLITY	
A405	ENLARGED BREAK ROOM	
A500	PLAN DETAILS	
A501	MISC. DETAILS	
A700	DOOR & WINDOW SCHEDULES	
PLUMBING		
P000	PLUMBING & SANITARY SPECIFICATIONS	
P100	SANITARY & VENT PLANS	
P200	PLUMBING PIPING PLANS	
P300	PLUMBING ISOMETRIC DIAGRAMS	
P400	PLUMBING DETAILS	
MECHANICAL		
M000	MECHANICAL SPECIFICATIONS	
M100	MECHANICAL DUCTWORK PLAN	
M200	MEZZANINE PLAN	
M300	MECHANICAL SCHEDULES	
M400	MECHANICAL DETAILS	
ELECTRICAL		
E-1	PROJECT NOTES	
E-2	POWER PLAN	
E-3	POWER PLAN	
E-4	LIGHTING PLAN	
E-5	LIGHTING PLAN	
E-6	RISER DIAGRAM	

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MECHANICAL CONSULTANT
EXECUTIVE ENGINEERING
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ELECTRICAL CONSULTANT
ELECTRICAL POWER DESIGN, INC.
ADDRESS: 13550 WRIGHT CIRC, TAMPA, 33626
PHONE: (813) 244-3473

APPLICABLE CODES

FLORIDA BUILDING CODES:
- 2023 FLORIDA BUILDING CODE - EIGHTH EDITION (2023)
- 2023 FLORIDA BUILDING CODE - MECHANICAL - EIGHTH EDITION (2023)
- 2023 FLORIDA BUILDING CODE - PLUMBING - EIGHTH EDITION (2023)
- 2023 FLORIDA BUILDING CODE - FUEL/GAS - EIGHTH EDITION (2023)
- 2023 FLORIDA BUILDING CODE - ENERGY - EIGHTH EDITION (2023)
- 2023 FLORIDA BUILDING CODE - TEST PROTOCOL - EIGHTH EDITION (2023)

ELECTRICAL CODES:
- NFPA 70 NATIONAL ELECTRICAL CODE (2020 EDITION)

ACCESSIBILITY CODES:
- 2023 FLORIDA BUILDING CODE - ACCESSIBILITY - EIGHTH EDITION (2023)

FIRE CODES:
- FLORIDA FIRE PREVENTION CODE - EIGHTH EDITION (2023) W/ LOCAL AMENDMENTS
- NFPA 1 - FIRE CODE
- NFPA 10 - STANDARD FOR PORTABLE FIRE EXTINGUISHERS
- NFPA 72 - NATIONAL FIRE ALARM CODE
- NFPA 101 LIFE SAFETY CODE (2024 EDITION)

F.B.C. CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS

BUILDING OCCUPANCY:	ASSEMBLY: A-3
TYPE OF CONSTRUCTION:	V- B
SPRINKLERED:	YES
ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE:	60'
PROPOSED BUILDING HEIGHT IN FEET ABOVE GRADE:	20' - 9"
ALLOWABLE NUMBER OF STORIES ABOVE GRADE:	2
PROPOSED NUMBER OF STORIES ABOVE GRADE:	1
ALLOWABLE AREA:	24,000.00 SF
PROPOSED AREA:	4,281.00 SF

F.B.C. CHAPTER 6: TYPES OF CONSTRUCTION

FIRE RESISTANCE RATING REQUIREMENTS FOR BLDG ELEMENTS
FROM TABLE 601

PRIMARY STRUCTURAL FRAME:	0
BEARING WALLS - EXTERIOR	0
INTERIOR	0
NON-BEARING WALLS - INTERIOR	0
FLOOR CONSTRUCTION & ASSOC. MEMBERS	0
ROOF CONSTRUCTION & ASSOC. MEMBERS	0

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (F.S.D.)
FROM TABLE 602

F.S.D. < 5	1
5' ≤ F.S.D. < 10'	1
10' ≤ F.S.D. < 30'	0
F.S.D. ≥ 30'	0

F.B.C. CHAPTER 8: INTERIOR FINISHES

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

GROUP	INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS	ROOMS AND ENCLOSED SPACES
A-3	CLASS 'B'	CLASS 'B'	CLASS 'C'

F.B.C. CHAPTER 9 FIRE PROTECTION SYSTEMS

903.2.1.3 GROUP A-3

PROPOSED FIRE AREA: 4281 SQ.FT. (TOTAL UNDER ROOF)

AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED FOR FIRE AREAS CONTAINING GROUP A-3 OCCUPANCIES AND INTERVENING FLOORS OF THE BUILDING WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:

1.THE FIRE AREA EXCEEDS 12,000 SQUARE FEET (1115 M2).

2.THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE.

3.THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE SERVING SUCH OCCUPANCIES.

F.B.C. CHAPTER 10: MEANS OF EGRESS SIZING

BUILDING

OCCUPANTS = 15

CHECK IN AND RECEPTION
EGRESS WIDTH: 3 OCCUPANTS X 0.2" = 0.6" / 48" PROVIDED
MINIMUM NUMBER OF EXITS = 1 REQUIRED / 1 PROVIDED

OFFICE
EGRESS WIDTH: 1 OCCUPANTS X 0.2" = 0.2" / 36" PROVIDED
MINIMUM NUMBER OF EXITS = 1 REQUIRED / 1 PROVIDED

OFFICE /RESPITE
EGRESS WIDTH: 1 OCCUPANTS X 0.2" = 0.2" / 36" PROVIDED
MINIMUM NUMBER OF EXITS = 1 REQUIRED / 1 PROVIDED

FOOD PREP.
EGRESS WIDTH: 2 OCCUPANTS X 0.2" = 0.4" / 36" PROVIDED
MINIMUM NUMBER OF EXITS = 1 REQUIRED / 1 PROVIDED

CLEAN & UTILITY
EGRESS WIDTH: 1 OCCUPANTS X 0.2" = 0.2" / 36" PROVIDED
MINIMUM NUMBER OF EXITS = 1 REQUIRED / 1 PROVIDED

BREAK
EGRESS WIDTH: 15 OCCUPANTS X 0.2" = 2.99" / 36" PROVIDED
MINIMUM NUMBER OF EXITS = 1 REQUIRED / 1 PROVIDED

AREA SCHEDULE (GROSS BUILDING)

LEVEL	ROOM NAME	AREA	ENCLOSED/OPEN
TOP OF SLAB			
ENCLOSED			
TOP OF SLAB	OFFICE	91 SF	ENCLOSED
TOP OF SLAB	CHECK-IN AND RECEPTION	352 SF	ENCLOSED
TOP OF SLAB	H/C	88 SF	ENCLOSED
TOP OF SLAB	H/C /W/SHWR	89 SF	ENCLOSED
TOP OF SLAB	OFFICE / RESPITE	85 SF	ENCLOSED
TOP OF SLAB	GROOM	98 SF	ENCLOSED
TOP OF SLAB	FOOD PREP.	159 SF	ENCLOSED
TOP OF SLAB	CORRIDOR	66 SF	ENCLOSED
TOP OF SLAB	CLEAN AND UTILITY	93 SF	ENCLOSED
TOP OF SLAB	BREAK	90 SF	ENCLOSED
TOP OF SLAB	WALKWAY#1	435 SF	ENCLOSED
TOP OF SLAB	WALKWAY#2	435 SF	ENCLOSED
TOP OF SLAB	INDOOR RUNS #1	232 SF	ENCLOSED
TOP OF SLAB	INDOOR RUNS #2	232 SF	ENCLOSED
TOP OF SLAB	INDOOR RUNS #3	192 SF	ENCLOSED
TOP OF SLAB	INDOOR RUNS #4	192 SF	ENCLOSED
TOP OF SLAB	W/H	8 SF	ENCLOSED
TOP OF SLAB	W/H	8 SF	ENCLOSED
TOP OF SLAB	CART STORAGE	9 SF	ENCLOSED
TOP OF SLAB	CART STORAGE	12 SF	ENCLOSED
ENCLOSED		2965 SF	
OPEN			
TOP OF SLAB	OUTDOORS RUNS #1	197 SF	OPEN
TOP OF SLAB	OUTDOOR RUNS #2	197 SF	OPEN
TOP OF SLAB	OUTDOOR RUNS #3	161 SF	OPEN
TOP OF SLAB	OUTDOOR RUNS #4	161 SF	OPEN
OPEN		717 SF	
MEZZANINE HEIGHT			
ENCLOSED			
MEZZANINE HEIGHT	MEZZANINE	500 SF	ENCLOSED
MEZZANINE HEIGHT	STAIR	32 SF	ENCLOSED
MEZZANINE HEIGHT	STAIR	23 SF	ENCLOSED
ENCLOSED		555 SF	
Grand total		4236 SF	

FLORIDA PRODUCT APPROVALS

CATEGORY	PRODUCT TYPE	MANUFACTURER	MODEL#/ SERIES	FLORIDA PRODUCT APPROVAL #
EXTERIOR DOORS				
EXTERIOR WINDOWS				

GENERAL NOTES:
1. INCLUSION OF "APPROVED PRODUCTS" OR ASSOCIATED INFORMATION AND DOCUMENTATION ON THIS LIST OR BY REFERENCE IN THE CONSTRUCTION DOCUMENTS DOES NOT IMPLY THAT SHARP DESIGN STUDIO OR ITS SUBCONSULTANTS HAVE EITHER PRODUCED OR CREATED THE INFORMATION CONTAINED HEREIN. CONSEQUENTLY, SHARP DESIGN STUDIO AND ITS SUBCONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY INFORMATION GIVEN RELATIVE TO "APPROVED PRODUCTS."
2. RESPONSIBILITY FOR ANY PRODUCT'S PERFORMANCE RELATIVE TO STRUCTURAL INTEGRITY DURING HURRICANES BASED ON EVALUATIONS OF CODE COMPLIANCE CONDUCTED BY STATE APPROVED ENTITIES LIES SOLELY WITH THE MANUFACTURERS OF THE ABOVE LISTED PRODUCTS.
3. INCLUSION OF A PRODUCT IN THIS SCHEDULE DOES NOT IMPLY OR PRESUME THAT THE PRODUCT LISTED WILL BE INSTALLED IN THIS PROJECT. ALTERNATE PRODUCTS COMPLYING WITH CODE REQUIREMENTS MAY BE UTILIZED UPON EVAULATION, ACCEPTANCE, AND APPROVAL BY THE BUILDING DEPARTMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT INFORMATION AND DOCUMENTATION THAT MAY BE REQUIRED BY THE BUILDING DEPARTMENT FOR THE ALTERNATE PRODUCT'S EVALUATION AND APPROVAL.
4. REFER TO PROJECT DATA ON STRUCTURAL SHEETS FOR APPLICABLE WIND SPEED CLASSIFICATION OF PROJECT.

BID SET - NOT FOR CONSTRUCTION

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CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS PHASE 1

PROJECT ADDRESS:
PARCEL #: 4113200240040 & 4113200240050

DESIGN DEVELOPMENT

DRAWN BY:
R.SAEZ

ISSUE DATE:
8-7-2025

#	DESCRIPTION	DATE

DIEGO DURAN, AR99267
SCOTT B. McCLELLAND, AR93425

COVER PAGE, CODE REQ'S. & BLDG. DATA

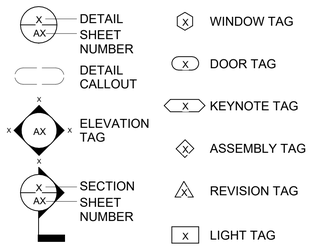
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ABBREVIATIONS

AC	AIR CONDITIONING	HT	HEIGHT
AD	AREA DRAIN	INCL	INCLUDED
AFF	ABOVE FINISH FLOOR	INSUL	INSULATION
AGGR	AGGREGATE	JT	JOINT
ALT	ALTERNATE	KS	KITCHEN SINK
ALUM	ALUMINUM	L CL	LINEN CLOSET
APPROX	APPROXIMATE	LAM	LAMINATE
ARCH	ARCHITECTURAL	LAV	LAVATORY
ASF	ABOVE STRUCTURAL FLOOR	LL	LIVE LOAD
AVG	AVERAGE	LPT	LOW POINT
B/ or BO	BOTTOM OF	LV	LOW VOLTAGE
BD	BOARD	MASY	MASONRY
BITUM	BITUMINOUS	MAX	MAXIMUM
BLDG	BUILDING	MC	MEDICINE CABINET
BSMT	BASEMENT	MECH	MECHANICAL
C#B	CABINET	MFR	MANUFACTURER
CEM	CEMENT	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	MISC	MISCELLANEOUS
CL	CENTER LINE	MO	MASONRY OPENING
CLG	CEILING	MTL	METAL
CLR	CLEAR	MW	MICROWAVE
CMU	CONCRETE MANSONRY UNIT	NIC	NOT IN CONTRACT
COD	CO DETECTOR	NO	NUMBER
COL	COLUMN	NOM	NOMINAL
CONC	CONCRETE	NTS	NOT TO SCALE
CONST	CONSTRUCTION	OC	ON CENTER
CONT	CONTINUOUS	OSD	OPEN SITE DRAIN
CPT	CARPET	PAN	PANTRY
CT	CERAMIC TILE	PL	PLATE
D	DEEP	PLAM	PLASTIC LAMINATE
DBL	DOUBLE	PT	PAINT
DEPT	DEPARTMENT	QT	QUARRY TILE
DIA	DIAMETER	R	RADIUS
DIM	DIMENSION	REF	REFRIGERATOR
DL	DEAD LOAD	REQD	REQUIRED
DN	DOWN	REV	REVISION
DS	DOWNSPOUT	RNG	RANGE
DW	DISHWASHER	RO	ROUGH OPENING
DWG	DRAWING	SC	SOLID CORE
EA	EACH	SD	SMOKE DETECTOR
EL	ELEVATION	SF	SQUARE FEET
ELEC	ELECTRICAL	SH	SHELF
ELEV	ELEVATOR	SST	STAINLESS STEEL
EMER	EMERGENCY	ST	STAINED
EQ	EQUAL	STD	STANDARD
EQPT	EQUIPMENT	STL	STEEL
EXIST	EXISTING	T&G	TONGUE AND GROOVE
EXT	EXTERIOR	THK	THICKNESS
FDTN	FOUNDATION	TYP	TYPICAL
FL	FLOOR DRAIN	UNO	UNLESS NOTED OTHERWISE
FP	FIRE PLACE	VERT	VERTICAL
FURN	FURNACE	VIF	VERIFY IN FIELD
G DISP	GARBAGE DISPOSAL	W	WIDE
GA	GAGE or GAUGE	WD	WASHER / DRYER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WC	WATER CLOSET
GYP BD	GYPSUM BOARD	WD	WOOD
HC	HOLLOW CORE	WH	WATER HEATER
HM	HOLLOW METAL	WIC	WALK-IN CLOSET
HORIZ	HORIZONTAL	WP	WATERPROOF
HPT	HIGH POINT	WWF	WELDED WIRE FABRIC

SYMBOL LEGEND



GENERAL NOTES

MISCELLANEOUS:

1. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT MOLECULAR BREAKDOWN.
2. REFER TO DRAWINGS OF ALL DISCIPLINES FOR EQUIPMENT REQUIRING CONCRETE EQUIPMENT PADS. PROVIDE SUCH PADS, COORDINATING THEIR SIZES AND LOCATIONS. REVIEW LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. COMPLETELY CONNECT ALL EQUIPMENT AND PROVIDE ALL NECESSARY APPENDAGES. COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL
4. FIELD VERIFY ALL DIMENSIONS BEFORE MANUFACTURING ANY MILLWORK, ETC.
5. SUPPLY ALL FIXTURES COMPLETE WITH APPROPRIATE FITTINGS AND ACCESSORIES TO ENSURE PROPER FUNCTION OF ALL FIXTURES.
6. PROVIDE FIRE EXTINGUISHERS WITHIN 75 FEET TRAVEL DISTANCE OF ALL POINTS OF OCCUPANCY. EXTINGUISHERS MUST BE MOUNTED AT A MINIMUM OF 48 " FROM THE TOP TO FINISHED FLOOR.
7. FLUSH CONTROLS ARE TO BE LOCATED ON ACCESSIBLE SIDE OF THE TOILET.
8. PER ADA, ONE LAVATORY MUST MEET ADA SPECIFICATIONS AND NOT BE IN A STALL.
9. ALL SINK RIMS SHOULD BE MOUNTED AT 2 '-10 " MAXIMUM.
10. CLEAR FLOOR SPACES OF 30"X48" SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY MINIMUM OF 29 " VERTICAL, 8" HORIZONTAL, AND 17" HORIZONTAL DEPTH AT FLOOR.
11. WHERE TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, AND OTHER SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED WITH ALL OPERABLE PARTS WITHIN 48" MAXIMUM FROM FINISHED FLOOR.
12. ALL DOORS MUST COMPLY WITH ADA REQUIREMENTS FOR CLEAR AREA ON DOOR STRIKE SIDE OF THE DOOR BASED ON LOCATION, ORIENTATION, AND APPROACH TO THE DOOR.
13. ANY CHANGE IN LEVEL BELOW ¼ " ARE PERMISSIBLE. CHANGES GREATER THAN ¼ " BUT LESS THAN ½ " MUST BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. CHANGES IN LEVEL GREATER THAN ½ " MUST BE RAMPED PER ADA. APPROVED ADA THRESHOLDS MUST BE USED WHERE A THRESHOLD IS REQUIRED.
14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL PATHWAYS ARE COMPLIANT WITH ADA AND NFPA.
15. ALL ELECTRICAL SITE AND BUILDING, VIDEO SURVEILLANCE & SECURITY WIRING TO BE IN CONDUIT.
16. ANY FOUNDATION WORK SHALL BE SCALED WITHIN 24 HOURS AND SAW CUTS SHALL BE COMPLETED WITHIN 24 HOURS OF FOUNDATION CONSTRUCTION
17. DEFERRED SUBMITTAL NOTICE:
    IN ACCORDANCE WITH CHAPTER 1, SECTION 107.3.4.1 OF THE 2023 FLORIDA BUILDING CODE, BUILDING, EIGHTH EDITION, WE WILL BE APPLYING THE DEFERRED SUBMITTAL RULE TO THE TRUSS ENGINEERING LAYOUTS AND PROFILES. THESE DOCUMENTS WILL BE PROVIDED BY THE MANUFACTURER AND SUBMITTED FOR REVIEW AND APPROVAL BY THE AUTHORITY HAVING JURISDICTION (AHJ) PRIOR TO INSTALLATION. WE WILL ENSURE COMPLIANCE WITH ALL NECESSARY REQUIREMENTS AS OUTLINED IN THE CODE.

TERMITE PROTECTION:

1. PROTECTION AGAINST TERMITES SHALL ADHERE TO ALL GUIDELINES SET IN SECTION R318 OF THE FLORIDA RESIDENTIAL BUILDING CODE.
2. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL.
3. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'- 0" AWAY FROM THE BUILDING SIDEWALLS.
4. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'- 0" OF THE BUILDING SIDEWALL.
5. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERING AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6 INCHES. EXCEPTION: PAINT OR DECORATIVE CEMENTITIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL.
6. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE.
7. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED.
8. BOXED AREAS IN CONCRETE FLOORS FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT.
9. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED.
10. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT.
11. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1' - 0" OF THE STRUCTURE SIDEWALLS.
12. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE, INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED.
13. ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT.
14. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES".
15. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1' - 0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL.
16. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC. SHALL BE BURIED WITHIN 15' - 0" OF ANY BUILDING OR PROPOSED BUILDING.
17. SOIL IS TO BE COMPACTED TO 95% MODIFIED PROCTOR AS DEFINED BY ASTM D 1557-91

GENERAL NOTES

PERFORMANCE OF THE WORK:

1. ALL PARTIES PERFORMING WORK OF THE PROJECT SHALL COMPLY WITH ALL APPLICABLE NATIONAL, FEDERAL, STATE, REGIONAL, LOCAL, AND MUNICIPAL CODES, STANDARDS, AND ORDINANCES.
2. PERFORMANCE OF THE WORK SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND THE REQUIREMENTS, POLICIES AND PROCEDURES OF THE OWNER.
3. INVESTIGATE EXISTING CONDITIONS; VERIFY AND BE RESPONSIBLE FOR ALL REQUIREMENTS OF THE PROJECT. NOTIFY THE ARCHITECT IN WRITING OF ANY CONDITIONS CONTRARY TO THE CONTRACT DOCUMENTS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.
4. ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE A CONDITION OF THE FULFILLMENT OF THE CONTRACT.
5. MAINTAIN THROUGHOUT THE CONSTRUCTION PERIOD, A CERTIFICATE OF INSURANCE FOR ALL LIABILITIES, WITH A HOLD HARMLESS CLAUSE PROTECTING THE OWNER AND THE ARCHITECT.
6. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS TO REVIEW THESE PLANS. IF A CONFLICT EXISTS, THE GENERAL CONTRACTOR MUST CONTACT THE ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY PRIOR TO THE BEGINNING OF ANY WORK TO RESOLVE THE CONFLICT. ADDITIONAL CONSTRUCTION COSTS AS A RESULT OF NON COMPLIANCE CANNOT BE USED AS A BASIS FOR BACK CREDIT.
7. THE ARCHITECT IS NOT RESPONSIBLE FOR ANY INFORMATION NOT CONTAINED WITHIN THESE DRAWINGS OR ANY ASSUMPTIONS MADE BY THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS DURING CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED SAFETY TRAINING, EQUIPMENT AND PRECAUTIONS AS WELL AS METHODS AND SCHEDULING OF WORK ONSITE.
9. WORK MUST INCLUDE ALL REQUIRED PERMITS (IF PERMITTED BY OTHERS), LABOR AND MATERIALS TO COMPLETE ALL WORK INDICATED WITHIN THE DRAWINGS.
10. ALL WALL PANELS AND BUILDING COMPONENTS SHALL BE PROTECTED FROM THE WEATHER AND DIRT OR MUD DURING ON SITE STORAGE
11. THE GENERAL CONTRACTOR SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER (SOIL REPORTS), ON THE STUDY OF THE PROPOSED SITE, TO THE STRUCTURAL ENGINEER. IN THE EVENT THE GEOTECHNICAL REPORTS DO NOT EXIST, THE SOIL CONDITION SHALL BE ASSUMED TO BE A MINIMUM DESIGN SOIL PRESSURE STATED BY THE STRUCTURAL ENGINEER OF RECORD FOR THE PURPOSE OF STRUCTURAL DESIGN. THE GENERAL CONTRACTOR SHALL ASSURE THE SOIL CONDITIONS MEET OR EXCEED THIS CRITERIA.
12. ITEMS NOTED ON PLANS BY OTHERS ARE A DEFERRED SUBMITTAL UNTIL SHOP DRAWINGS ARE RECEIVED FROM THE MANUFACTURER, REVIEWED AND APPROVED BY THE ARCHITECTEOR, AND THE AHJ.
13. SEE THE GENERAL CONTRACTOR FOR SCOPE OF WORK AND OR SPECIFICATIONS FOR ADDITIONAL INFORMATION.
14. SEE STRUCTURAL SHEETS FOR GENERAL STRUCTURAL NOTES.
15. ALL WALL CHASES TO BE CAPPED WITH O.S.B. BOARD AT WALL HEIGHT.
16. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DETERMINE ERECTION PROCEDURES, MEANS AND METHODS AND SEQUENCE OF CONSTRUCTION.
17. CONTRACTOR TO FURNISH AND INSTALL CONCEALED WOOD BLOCKING (WITHIN WALLS) AS REQUIRED TO FIRMLY SECURE WALL-MOUNTED EQUIPMENT AND/OR ACCESSORIES. ALL WOOD BLOCKING IN CONTACT WITH MASONRY IS TO BE PRESSURE TREATED.

BIDDING AND CONTRACT DOCUMENTS:

1. IT IS THE INTENT THAT THESE DRAWINGS BE IN CONFORMANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023), THE NEC 2020 AND ALL APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL CODES, ORDINANCES, LAWS, REGULATIONS, AND RESTRICTIVE COVENANTS GOVERNING THE SITE OF WORK.
2. THE DRAWINGS SHALL BE ISSUED TOGETHER AND COMPLETELY AS A DOCUMENT SET FOR BIDDING AND CONSTRUCTION.
3. THE DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY, EACH TO THE OTHER, AND WHAT IS CALLED FOR BY ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH. FOR MATERIALS IDENTIFIED ON THE DRAWINGS, SEE THE SPECIFICATIONS FOR GENERAL, PRODUCT AND EXECUTION INFORMATION.
4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO INCLUDE EVERYTHING REQUISITE AND NECESSARY TO COMPLETE THE WORK EVEN IF EVERYTHING REQUIRED FOR SUCH WORK IS NOT SPECIFICALLY MENTIONED OR INDICATED.
5. NOTES AND REFERENCES RELATIVE TO DIFFERENT CONSTRUCTION MATERIALS, DETAILS, ASSEMBLIES AND SYSTEMS APPEAR ON VARIOUS SHEETS. SUCH NOTES AND REFERENCES ON ANY ONE SHEET ARE APPLICABLE TO RELATED DRAWINGS THROUGHOUT THE SET.
6. SHOULD A DISCREPANCY BETWEEN NOTES, DRAWINGS AND/OR TECHNICAL SPECIFICATIONS BE DISCOVERED, SUBMIT WRITTEN REQUEST TO THE ARCHITECT FOR RESOLUTION OF THE DISCREPANCY.
7. KEYNOTES TAGGED TO THE DRAWINGS WITH NUMBERED OR LETTERED SYMBOLS ARE TYPICAL FOR ALL SIMILAR CONDITIONS WHETHER TAGGED OR NOT.
8. DETAILS SHOWN ARE INDICATIVE OF PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK.
9. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILS SHOWN.
10. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN. PRINTED DRAWINGS MAY BE REPRODUCED AT A SCALE DIFFERENT THAN INTENDED BY THE ORIGINAL DRAWING. SUBMIT WRITTEN REQUEST TO THE ARCHITECT FOR RESOLUTION OF ANY DIMENSIONAL DISCREPANCIES.
11. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
12. VERIFY ALL DIMENSIONS, INCLUDING BUT NOT LIMITED TO EXISTING CONDITIONS, LAYOUT OF THE WORK, AND WORK ALREADY INSTALLED BEFORE PROCEEDING WITH NEW WORK.
13. ARCHITECTURAL DRAWINGS MUST ALWAYS BE USED IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND CONTRACT DOCUMENTS. ANY DISCREPANCY BETWEEN THESE DRAWINGS AND DOCUMENTS SHOULD BE REPORTED TO THE OWNER, ARCHITECT, OR ENGINEER FOR CLARIFICATION AND VERIFICATION.
14. ARCHITECT MAY, AT TIMES, IDENTIFY CERTAIN BUILDING MATERIALS AND/OR SUPPLIERS AND/OR MANUFACTURERS. ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE FAILURE OF SUCH PRODUCTS OR ANY DEFECT IN SUCH PRODUCT. CONTRACTOR SHALL BEAR RESPONSIBILITY TO INDEPENDENTLY ASCERTAIN THE PROPER INSTALLATION METHODOLOGY INCLUDING, WITHOUT LIMITATION, COMPLIANCE WITH ALL MANUFACTURERS' INSTRUCTIONS AND/OR ANY APPLICABLE BUILDING CODE.
15. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR ANY ACTS OR OMISSIONS BY THE CONTRACTOR, SUBCONTRACTORS, MATERIALS, EQUIPMENT SUPPLIERS, OR ANY OTHER AGENT OR EMPLOYEE NOT DIRECTLY WORKING ON BEHALF OF SHARP DESIGN STUDIO, LLC.
16. FINAL PROJECT 3 RING BINDER OF ALL PERMITS, APPROVALS, TESTING AND SUB CONTRACTS CONTACT INFORMATION. FOR ALL PRODUCTS USED ON THE SITE THE MANUFACTURES CONTACTS, SPECS AND MANUALS SHALL BE PROVIDED IN BINDER FORMAT TO OWNER.

COORDINATION AND SUBSTITUTION:

1. COORDINATE WORK OF ALL TRADES WITH ONE ANOTHER IN ORDER TO AVOID INTERFERENCES, TO PRESERVE MAXIMUM HEAD ROOM AND TO AVOID OMISSIONS.
2. ALL ADDITIONAL COSTS, INCLUDING ALTERATION COSTS OF WORK ALREADY INSTALLED, RESULTING FROM SUBMITTALS AND SHOP DRAWINGS NOT SUBMITTED IN A TIMELY MANOR, AND NOT ALLOWING RELATED WORK TO BE INSTALLED FOR THE PROPER INSTALLATION OF THE SUBJECT WORK, SHALL BE THE SUBMITTING CONTRACTOR'S RESPONSIBILITY.
3. PROPOSED CHANGES TO ANY CONSTRUCTION MATERIALS, DETAILS, ASSEMBLIES AND SYSTEMS, ETC. SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT IN ACCORDANCE WITH THE PROJECT MANUAL.
4. ACCEPTED SUBSTITUTIONS REQUIRE THAT THE CONTRACTOR RESPONSIBLE FOR THE PROPOSED CHANGE TO FULLY COORDINATE WITH ALL TRADES AFFECTED BY THE SUBSTITUTION WITH RESPECT TO, BUT NOT LIMITED TO, DIMENSIONS, CLEARANCES, CONNECTIONS, ETC., REQUIRED FOR A FULLY FUNCTIONAL INSTALLATION. SUBSTITUTING CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL RELATED COSTS ASSOCIATED WITH THE SUBSTITUTION INCLUDING RELATED COSTS OF OTHER TRADES OR ALTERATION COSTS TO ADAPT ANOTHER'S INSTALLED WORK.
5. THE ARCHITECT IS NOT RESPONSIBLE FOR AN OWNER'S DECISION ON SUBSTITUTION MADE WITHOUT THE ARCHITECT'S KNOWLEDGE OR WRITTEN APPROVAL.
6. ALL DRAWINGS CONTAINED WITHIN THIS SET, INCLUDING ARCHITECTURAL, MECHANICAL, AND ELECTRICAL, ARE BASED ON INFORMATION PROVIDED BY THE CLIENT/OWNER AND THEIR CONSULTANTS. ACTUAL ON-SITE CONDITIONS HAVE NOT BEEN VERIFIED BY THE ARCHITECT, MECHANICAL, OR ELECTRICAL ENGINEERS. THE CONTRACTOR, ALL SUB-CONTRACTORS, VENDORS, SUPPLIERS, AND TRADES WILL BE RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS DURING BIDDING AND CONSTRUCTION. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE OWNER AND SHARP DESIGN STUDIO 'S ATTENTION IMMEDIATELY.
7. SHOP DRAWINGS TO BE PROVIDED TO OWNER, AND OWNERS ENGINEER & ARCHITECT FOR REVIEW.
8. ALL BUILDING COMPONENTS SHALL COME FROM THE MANUFACTURER WITH LABELS ON EACH ITEM THAT IDENTIFIES THEM AS NOTED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS
9. G.C TO COORDINATE UTILITY SERVICES PRIOR TO DEVELOPMENT
10. SITE DEVELOPMENT TO INCLUDE REMOVAL OF SUBSURFACE UTILITIES AND INFRASTRUCTURE ON PARCEL RELATED TO PRIOR DEVELOPMENT.

CONSTRUCTION PREMISES:

1. PROVIDE TEMPORARY FENCING AND PROTECTIONS AS REQUIRED BY THE NATIONAL, FEDERAL, STATE, REGIONAL, LOCAL, AND MUNICIPAL AUTHORITIES HAVING JURISDICTION.
2. PROTECT ALL EXISTING SITE ELEMENTS TO REMAIN FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. REPAIR OR REPLACE TO THE SATISFACTION OF THE OWNER, ALL ELEMENTS DAMAGED DURING THE PROJECT.
3. KEEP PREMISES IN A BROOM SWEPT FINISH CONDITION DURING ALL PHASES OF THE CONSTRUCTION. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP AND DISPOSING OF THEIR DEBRIS AND WASTE MATERIALS ON A REGULAR BASIS AND LEAVE THE PROJECT IN A BROOM SWEPT FINISH CONDITION UPON COMPLETION OF THEIR PORTION OF THE WORK.
4. CLEAN AND WASH ALL WINDOW GLASS, MIRRORS, FLOORS AND WALL TILES UPON COMPLETION OF THE PROJECT.

NOT FOR CONSTRUCTION
BID SET - NOT FOR CONSTRUCTION

SHARP DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

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CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #: 4113200240040
& 4113200240050

DESIGN
DEVELOPMENT

DRAWN BY:
R.SAEZ
ISSUE DATE:
8-7-2025

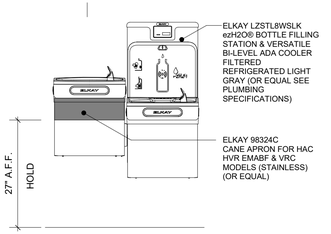
#	DESCRIPTION	DATE

DIEGO DURAN, AR99267
SCOTT B. McCLELLAND, AR93425

PROJECT
INFORMATION &
NOTES

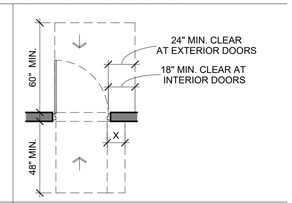
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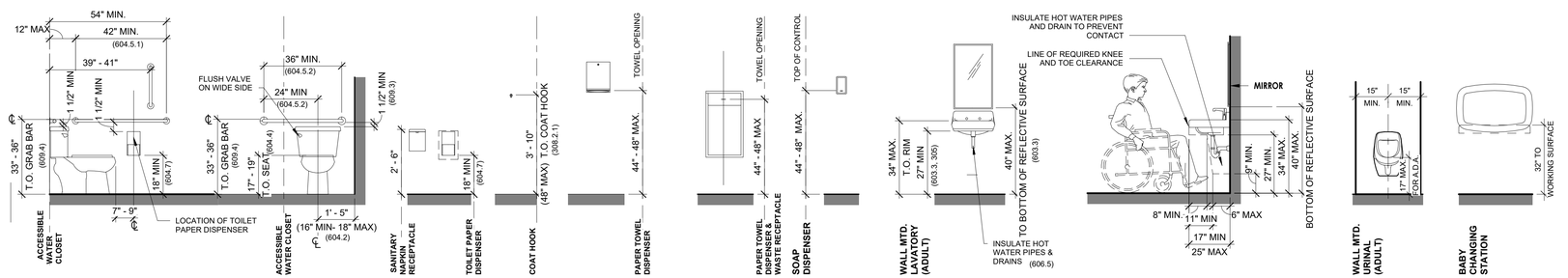


*TYPICAL FOR ALL WATER FOUNTAINS THAT ARE NOT IN AN ALCOVE. MODEL/CONFIGURATION MAY VARY AS LONG AS AN APRON IS INSTALLED IN ORDER TO KEEP THE LEADING EDGE OF THE HI SIDE AT 2'-3" A.F.F. MAX.

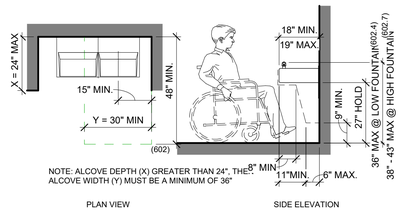
HI-LO WATER FOUNTAIN W/ CANE APRON



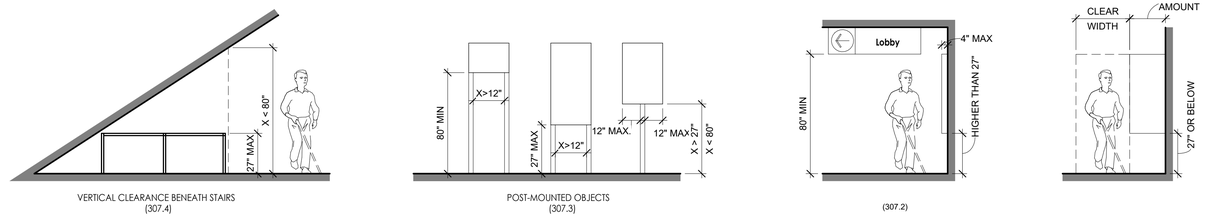
1 ACCESSIBLE - DOOR CLEARANCES
1/4" = 1'-0"



2 TYPICAL ACCESSIBLE ACCESSORY HEIGHTS
3/8" = 1'-0"

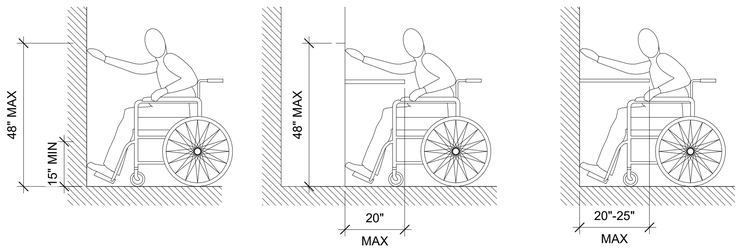


3 ACCESSIBLE - DRINKING FOUNTAINS
3/8" = 1'-0"

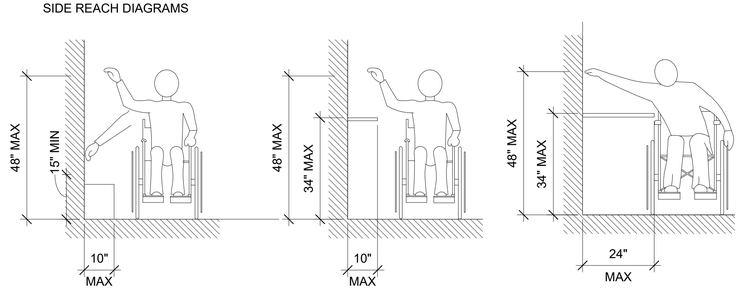


4 ACCESSIBLE - PROTRUDING OBJECTS
1/4" = 1'-0"

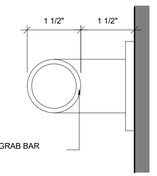
FORWARD REACH DIAGRAMS



SIDE REACH DIAGRAMS



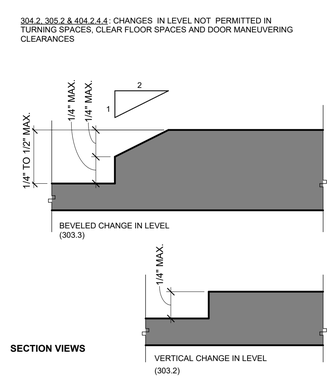
5 ACCESS. - REACH RANGES
1/2" = 1'-0"



NOTES:

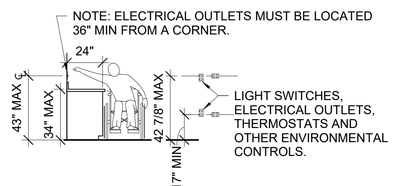
1. ALL GRAB BARS AND BLOCKING SHALL COMPLY WITH ALL APPLICABLE ACCESSIBILITY CODES, STANDARDS, AND LAWS.
2. BLOCKING SHALL BE INSTALLED AT TIME OF INITIAL CONSTRUCTION.
3. GRAB BARS SHALL BE PROVIDED AT COMMON/PUBLIC ACCESSIBLE TOILETS.
4. GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE ROUNDED.
5. GRAB BARS SHALL NOT ROTATE WITHIN THE FITTINGS.
6. STRUCTURAL STRENGTH OF MATERIALS, FASTENERS, MOUNTING DEVICES, AND SUPPORTING STRUCTURES SHALL RESIST A SINGLE FORCE OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICES, OR SUPPORTING STRUCTURES.

6 GRAB BARS
1/2" = 1'-0"



7 ACCESSIBLE - THRESHOLD
3/4" = 1'-0"

CLEAR FLOOR SPACE OF 30" X 48" SHALL BE PROVIDED FOR A FORWARD OR PARALLEL APPROACH AT ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SUCH AS THERMOSTATS. FOR REACH RANGES, SEE REACH RANGE DIAGRAM. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.



8 FAC/GAC 2010 - ENVIRONMENTAL CONTROLS
1/4" = 1'-0"

NOT FOR CONSTRUCTION
BID SET - NOT FOR CONSTRUCTION

SHARP DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
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CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #: 4113200240040 & 4113200240050

DESIGN DEVELOPMENT

DRAWN BY:
Author
ISSUE DATE:
8-7-2025

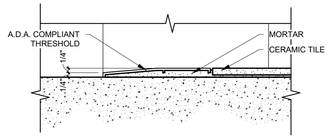
#	DESCRIPTION	DATE

DIEGO DURAN, AR99267
SCOTT B. McCLELLAND, AR93425

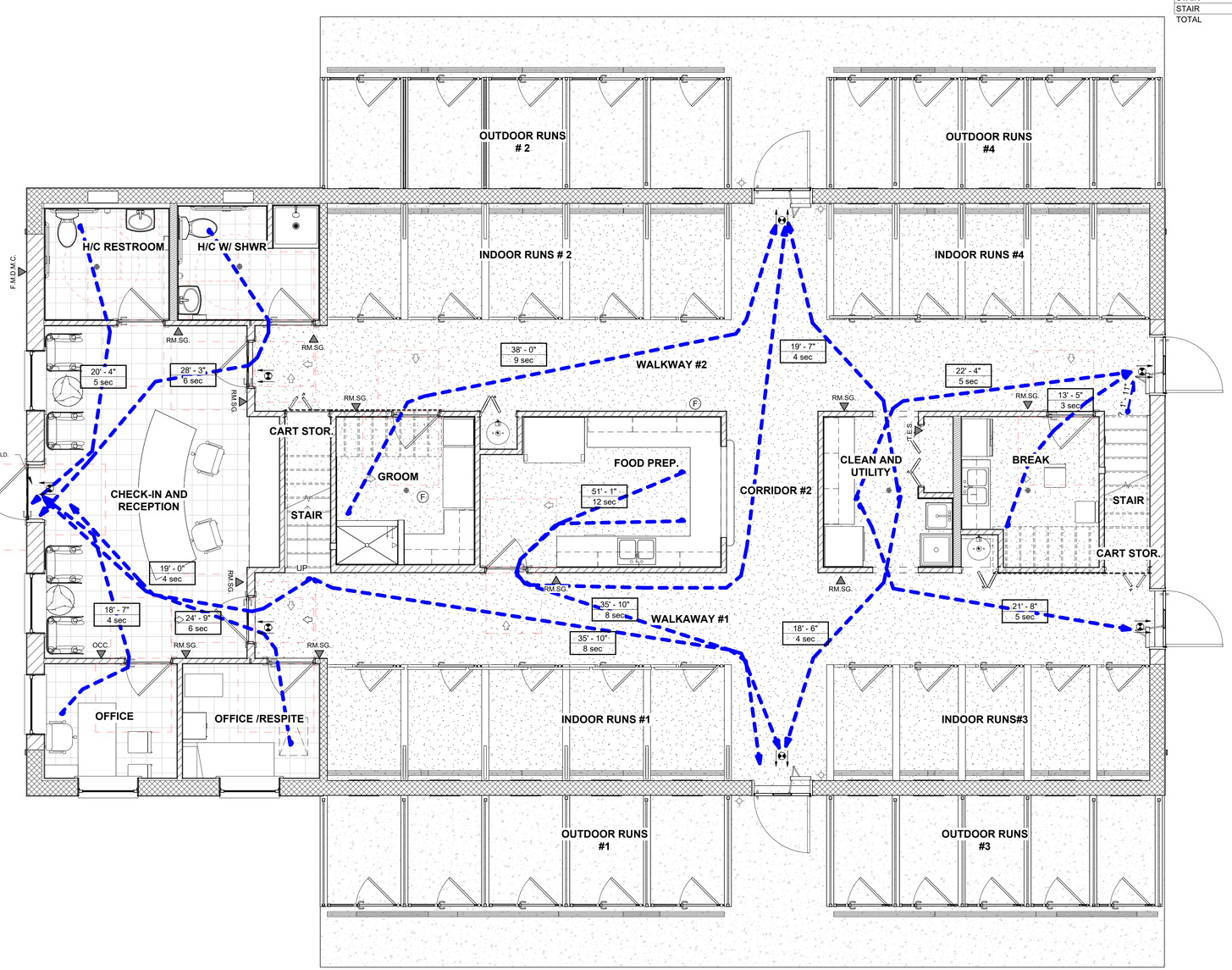
ACCESSIBILITY DIAGRAMS

G002

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A DOOR THRESHOLD
3" = 1'-0"



1 LIFE SAFETY PLAN FIRST LEVEL
1/4" = 1'-0"

OCCUPANCY LOAD				
Name	Area	Occupancy Load Factor	OCCUPANTS	Occupancy Classification
CHECK -IN AND RECEPTION*	352 SF	150	3	BUSINESS
OFFICE	91 SF	150	1	BUSINESS
OFFICE / RESPITE	85 SF	150	1	BUSINESS
H/C	87 SF			
H/C W/ SHWR	89 SF			
GROOM	97 SF			
FOOD PREP.	159 SF	150	2	BUSINESS
CLEAN & UTILITY	93 SF	150	1	BUSINESS
BREAK	90 SF	15	7	ASSEMBLY
CORRIDOR	66 SF			
WALKWAY#1	434 SF			
WALKWAY #2	434 SF			
INDOOR RUNS #1	232 SF			
INDOOR RUNS #2	232 SF			
INDOOR RUNS #3	192 SF			
INDOOR RUNS #4	192 SF			
OUTDOOR RUNS #1	197 SF			
OUTDOOR RUNS #2	197 SF			
OUTDOOR RUNS #3	161 SF			
OUTDOOR RUNS #4	161 SF			
MEZZANINE	501 SF			
CART STORAGE	9 SF			
CART STORAGE	12 SF			
W/H	8 SF			
H/C	8 SF			
STAIR	32 SF			
STAIR	23 SF			
TOTAL			15	

LEGEND

- PATH OF EGRESS. INDICATE DIRECTION OF MAXIMUN TRAVEL DISTANCE
- ILLUMINATED EXIT SIGN
- (F) 2-A FIRE EXTINGUISHER 75 FT MAX. TRAVEL DISTANCE
- T.E.S. TACTILE EXIT SIGN
- OCC. MAXIMUM OCCUPANCY SIGN
- RM.SG. ROOM SIGNAGE
- RM.SG. FIRE DEPT. MALTESE CROSS. INSTALL PER LOCAL F.D. REGULATIONS
- 30X48 CLEAR FLOOR SPACE. DOES NOT APPLY TO DOOR CLEARANCES

SHARP DESIGN STUDIO
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TAMPA, FL 33626
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CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN DEVELOPMENT

ISSUE DATE:
8-7-2025

#	DESCRIPTION	DATE

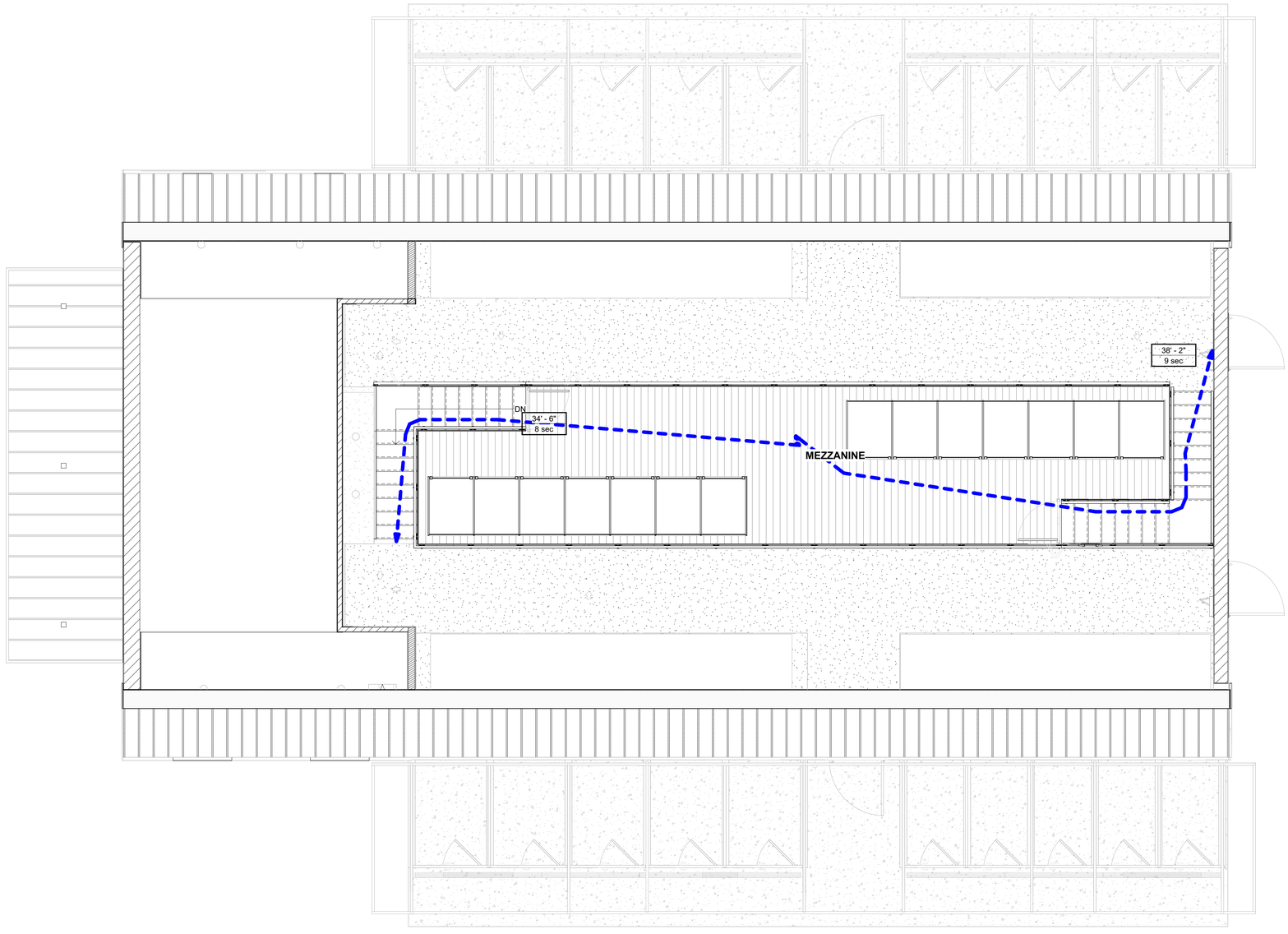
DIEGO DURAN, AIA
AR99267

LIFE SAFETY PLAN FIRST FLOOR

G003

BID SET - NOT FOR CONSTRUCTION

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12/15/2025 11:37:13 AM



1 MEZZANINE HEIGHT
1/4" = 1'-0"

LEGEND

- PATH OF EGRESS. INDICATE DIRECTION OF MAXIMUN TRAVEL DISTANCE
- ILLUMINATED EXIT SIGN
- (F) 2-A FIRE EXTINGUISHER 75 FT MAX. TRAVEL DISTANCE
- T.E.S. TACTILE EXIT SIGN
- OCC. MAXIMUM OCCUPANCY SIGN
- RM.SG. ROOM SIGNAGE
- RM.SG. FIRE DEPT. MALTESE CROSS. INSTALL PER LOCAL F.D. REGULATIONS
- 30X48 CLEAR FLOOR SPACE. DOES NOT APPLY TO DOOR CLEARANCES

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22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN
DEVELOPMENT

ISSUE DATE:
8-7-2025

#	DESCRIPTION	DATE

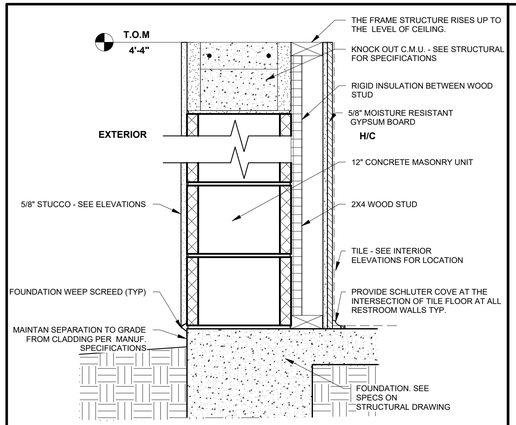
DIEGO DURAN, AIA
AR99267

LIFE SAFETY
PLAN MEZZANINE

G004

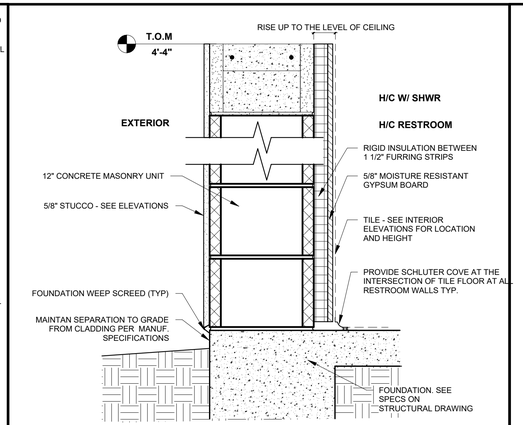
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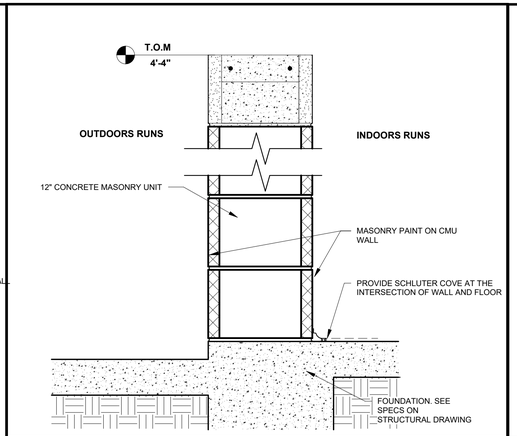
E1 EXTERIOR C.M.U. WALL

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



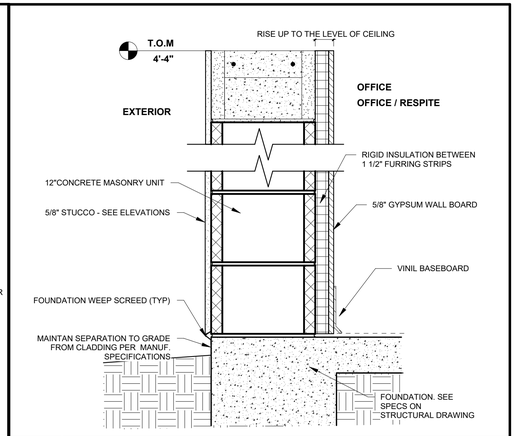
E2 EXTERIOR C.M.U. WALL

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



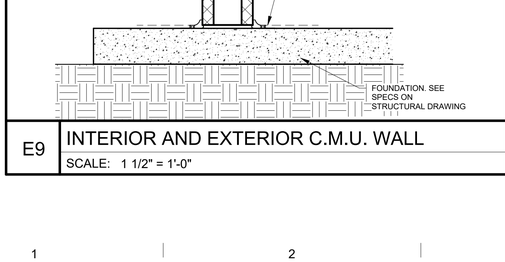
E3 EXTERIOR C.M.U. WALL

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



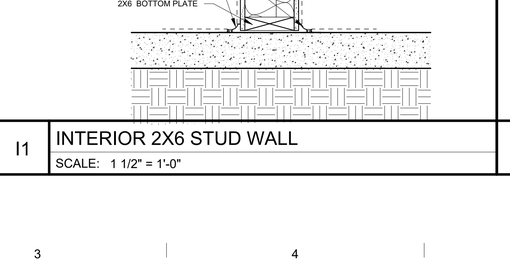
E4 EXTERIOR C.M.U. WALL

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



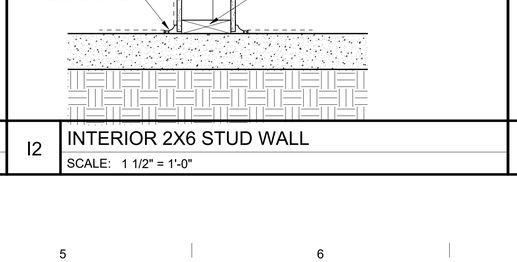
E5 EXTERIOR C.M.U. WALL

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



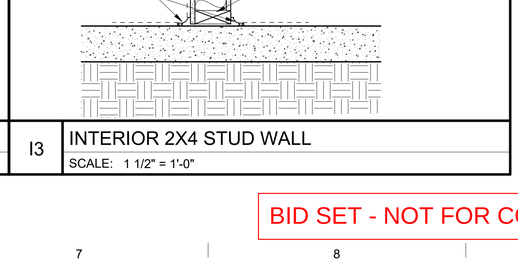
E6 EXTERIOR ENDWALL

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



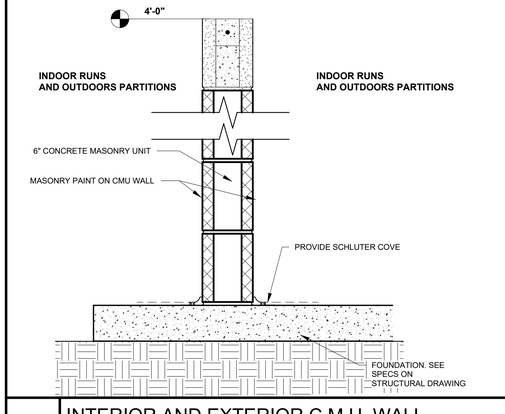
E7 EXTERIOR ENDWALL

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



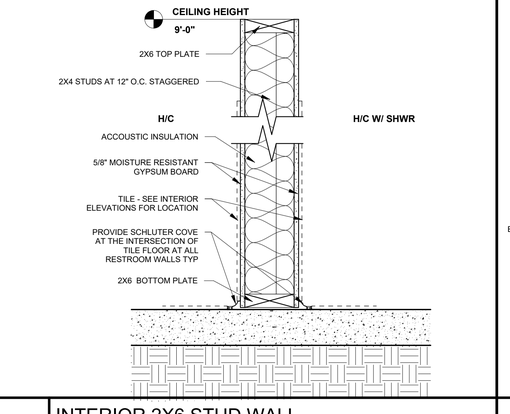
E8 EXTERIOR ENDWALL

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



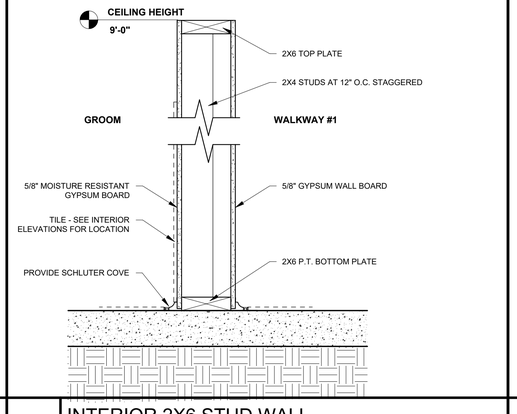
E9 INTERIOR AND EXTERIOR C.M.U. WALL

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



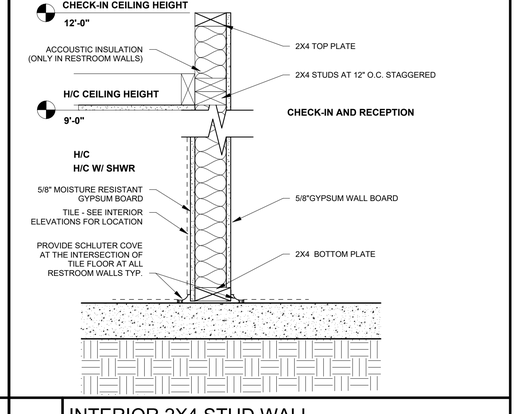
I1 INTERIOR 2X6 STUD WALL

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



I2 INTERIOR 2X6 STUD WALL

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



I3 INTERIOR 2X4 STUD WALL

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

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SHARP DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

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22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN DEVELOPMENT

DRAWN BY:
R.SAEZ
ISSUE DATE:
8-7-2025

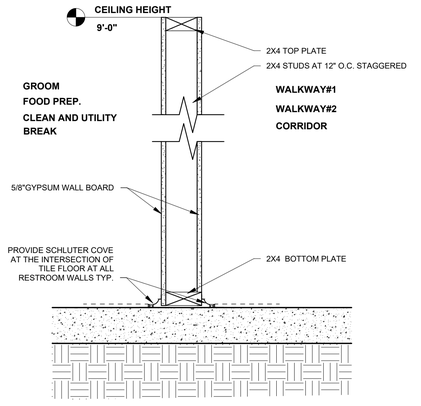
#	DESCRIPTION	DATE

DIEGO DURAN, AR99267
SCOTT B. McCLELLAND, AR93425

WALL PARTITION

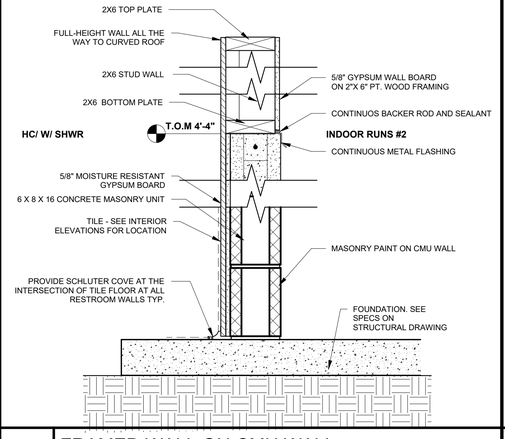
G005

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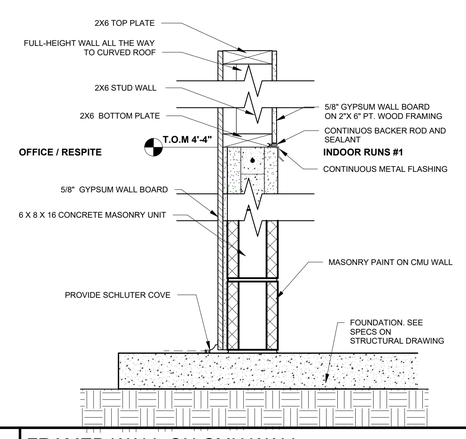
I4 INTERIOR 2X4 STUD WALL

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



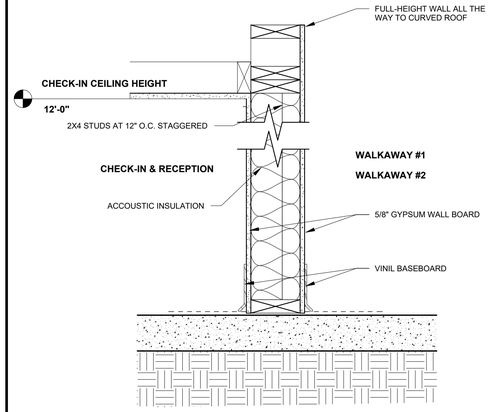
I5 FRAMED WALL ON CMU WALL

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



I6 FRAMED WALL ON CMU WALL

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



I7 INTERIOR 2X6 STUD WALL

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

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R.SAEZ
ISSUE DATE:
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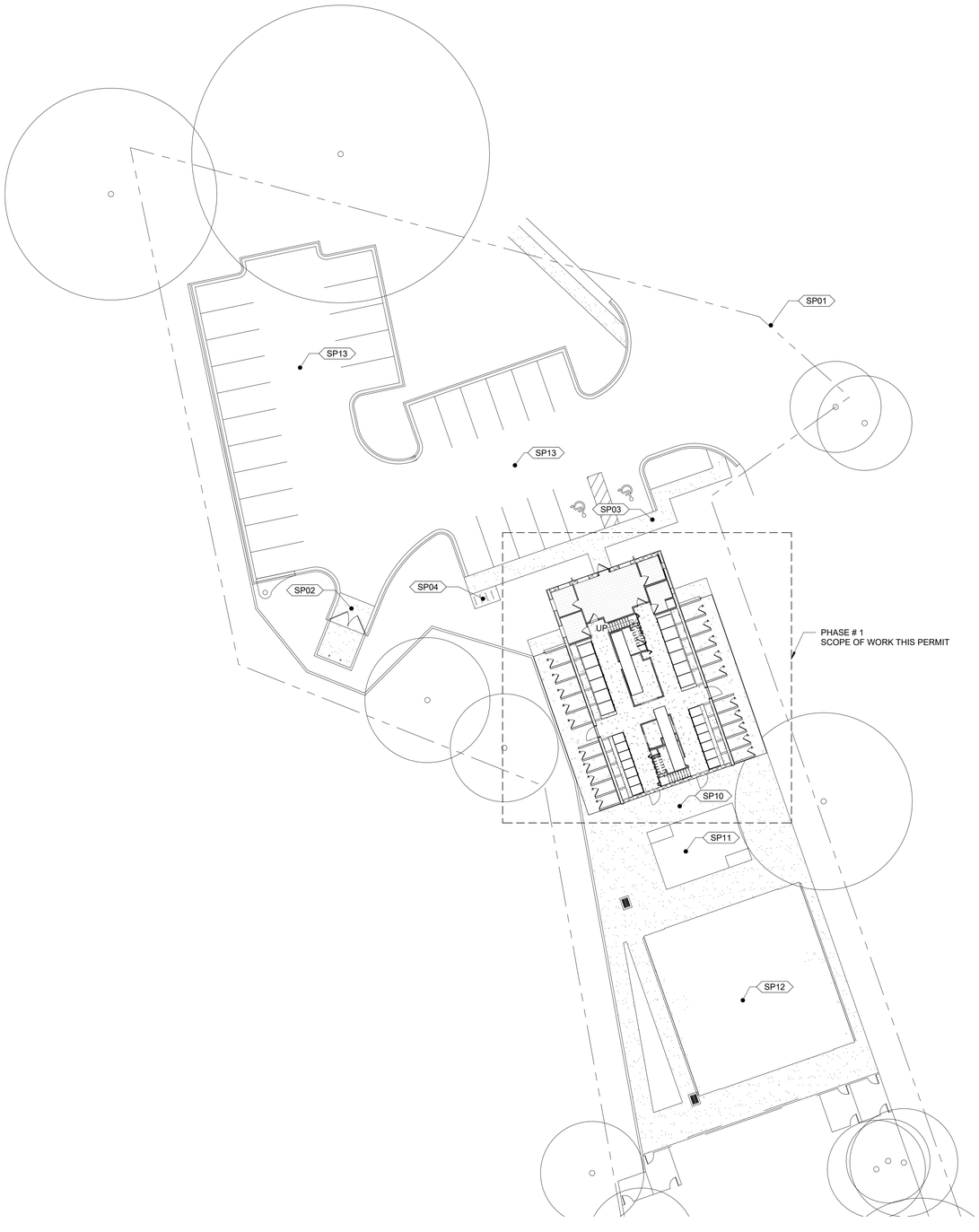
DIEGO DURAN, AR99267
SCOTT B. McCLELLAND, AR93425

WALL PARTITION

G006

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2 ARCHITECTURAL SITE PLAN
3/64" = 1'-0"

SITE PLAN NOTES

1. FIRST FLOOR ELEVATION IS BASED ON ASSUMED 0' - 0"
2. G.C. TO COORDINATE ALL INCOMING UTILITIES.
3. SITE INFORMATION IS FOR REFERENCE ONLY. SEE LANDSCAPE AND CIVIL DRAWINGS FOR MORE SPECIFIC DETAILS REGARDING HARD AND SOFT SCAPE.
4. SEE LANDSCAPING PLANS FOR LOCATION OF POOL SHOWER. AT LEAST ONE SHOWER SHOULD BE NO FURTHER THAN 20' FROM WATER'S EDGE.

KEYNOTES - SITE PLAN

Key Value	Keynote Text
SP01	PROPERTIY LINE
SP02	DUMPSTER ENCLOSURE
SP03	SLIP RESISTANT, BROOM FINISH CONCRETE SIDEWALK. ENSURE SIDEWALK DOES NOT EXCEED MAX 5% SLOPE IN DIRECTION OF TRAVEL AND 2% SLOPE IN ALL DIRECTIONS.
SP04	4 BIKE SPACES
SP10	POOL DECK.
SP11	POOL
SP12	PHASE #2
SP13	PARKING

NOTE TO BIDDERS - THE CIVIL DWGS. SUPERCEDE THE ARCH. SITE PLAN, PLEASE REFER TO THEM FOR ALL SITE WORK ESTIMATION

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12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

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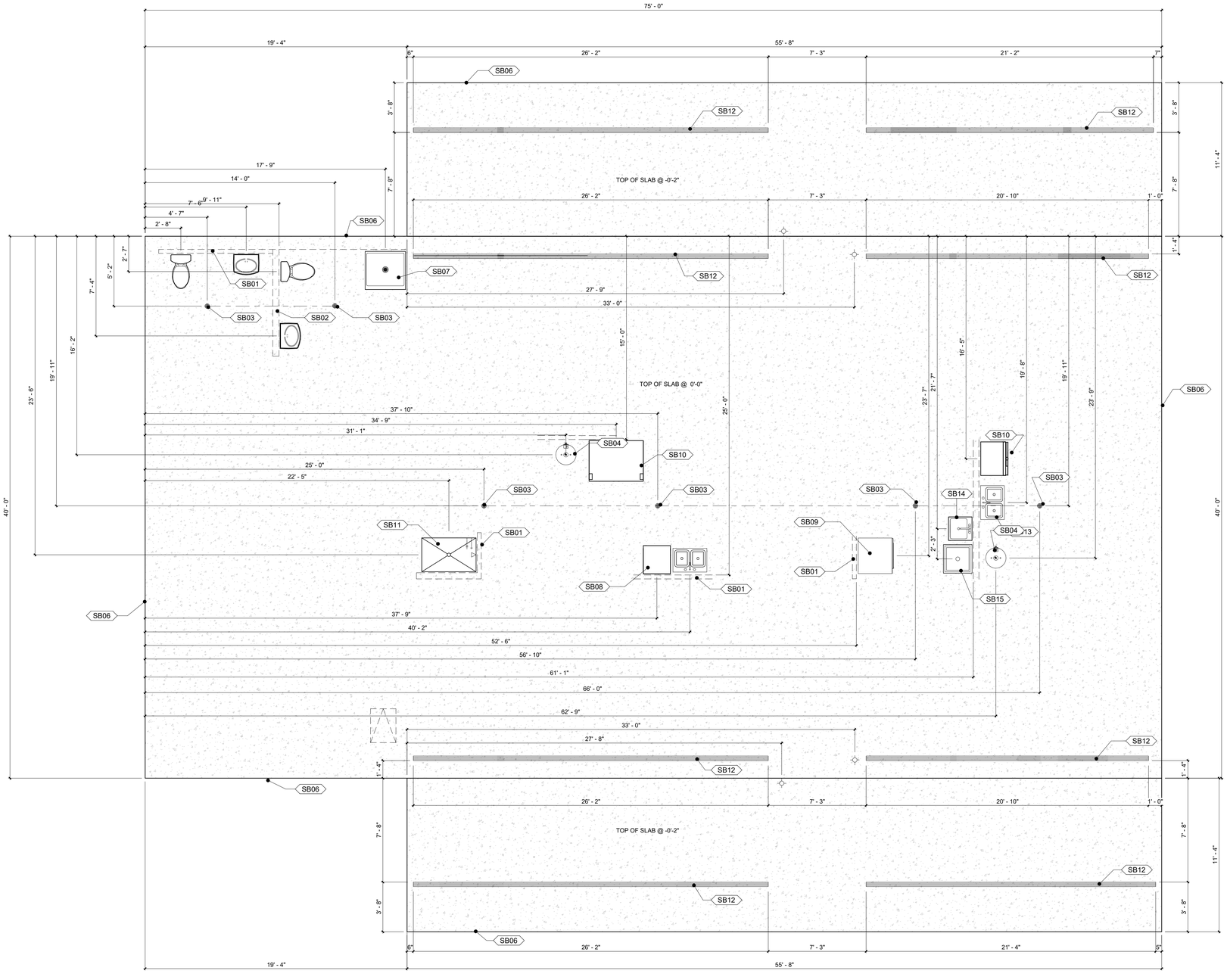
#	DESCRIPTION	DATE

DIEGO DURAN, AIA
AR99267

ARCH. SITE PLAN

A100

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1 PLUMBING SLAB PLAN
1/4" = 1'-0"

KEYNOTES - SLAB PLAN

Key Value	Keynote Text
SB01	2"X4" PLUMBING WALL (TYP.)
SB02	2"X6" PLUMBING WALL (TYP.)
SB03	FLOOR DRAIN. PROVIDE 1/8" - 12" SLOPE AT SLAB TO ALL FLOOR DRAIN LOCATIONS.
SB04	WATER HEATER
SB06	EDGE OF SLAB
SB07	SHOWER PAN
SB08	DISH WASHER LOCATION
SB09	WASHER & DRYERS LOCATION
SB10	FRIDGE LOCATION
SB11	DOG WHASH TUB
SB12	4" KENNEL WASTE TROUGH.(TYP).
SB13	DOUBLE SINK, TYP.
SB14	UTILITY SINK, TYP.
SB15	MOP SINK, TYP.

SHARP DESIGN STUDIO
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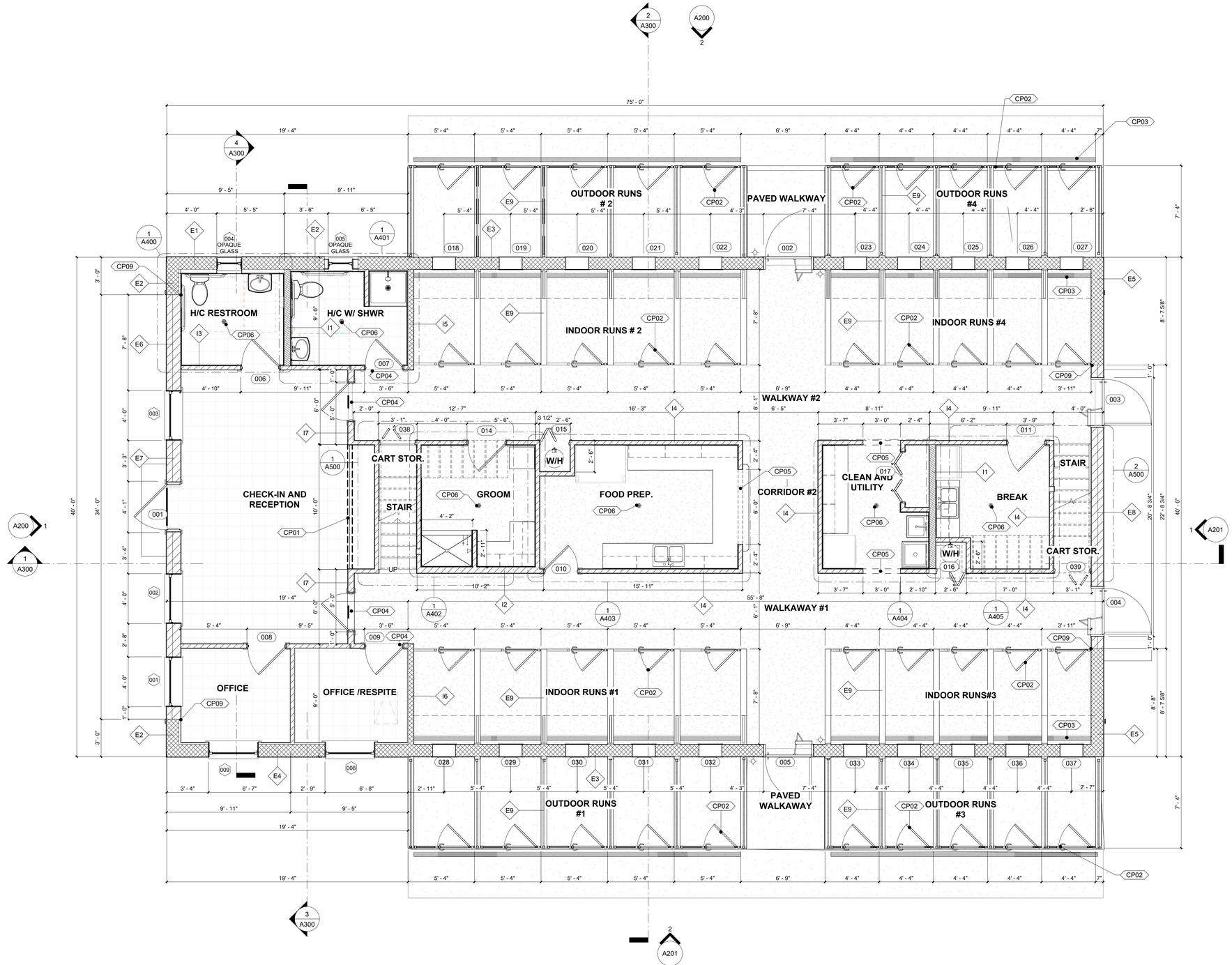
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PLUMBING SLAB PLAN

A101

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2 FLOOR PLAN FIRST LEVEL
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL MASONRY OPENINGS AND COORDINATE ALL WINDOW SIZES WITH WINDOW MANUFACTURER PRIOR TO ORDERING MATERIALS. SHARP DESIGN STUDIO WILL NOT BE RESPONSIBLE FOR WINDOW/DOORS/LOUVERS THAT HAVE NOT BEEN COORDINATED BY CONTRACTOR AND/OR INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
2. TILE AND PAVER PATTERNS ARE SHOWN FOR GRAPHIC PURPOSES ONLY. TILE AND PAVER SPECIFICATIONS AND INSTALLATION PATTERN TO BE DETERMINED.
3. ALL GUTTERS AND DOWNSPOUTS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. DOWNSPOUT LOCATION SHALL BE COORDINATED WITH ELEVATIONS SO THERE IS NO CONFLICT BETWEEN ITS LOCATION AND ANY EXTERIOR FENESTRATION.
4. LAMINATED VENEERED LUMBER (LVL) TO BE BOISE CASCADE VERSA LAM 3100 Fb = 3100 psi, E = 2000 ksi
5. ALL ENTRY DOORS TO HAVE ADA COMPLIANT THRESHOLDS. (TYP.) SEE SHEET A700 FOR DETAIL.
6. DEFERRED SUBMITTAL NOTICE:
   IN ACCORDANCE WITH CHAPTER 1, SECTION 107.3.4.1 OF THE 2023 FLORIDA BUILDING CODE, BUILDING, EIGHTH EDITION, WE WILL BE APPLYING THE DEFERRED SUBMITTAL RULE TO THE TRUSS ENGINEERING LAYOUTS AND PROFILES. THESE DOCUMENTS WILL BE PROVIDED BY THE MANUFACTURER AND SUBMITTED FOR REVIEW AND APPROVAL BY THE AUTHORITY HAVING JURISDICTION (AHJ) PRIOR TO INSTALLATION. WE WILL ENSURE COMPLIANCE WITH ALL NECESSARY REQUIREMENTS AS OUTLINED IN THE CODE.

KEYNOTES - FLOOR PLAN

Key Value	Keynote Text
CP01	FLAT HEADER AT 9'-0" A.F.F..
CP02	INDOOR & OUTDOOR RUNS GATES, FENCE & SHADES STRUCTURE (BY OTHERS).
CP03	4" KENNEL WASTE TROUGH,(TYP)
CP04	ADA COMPLIANT THRESHOLD
CP05	FLAT HEADER AT 7'-0" A.F.F..
CP06	FLOOR DRAIN. PROVIDE 1/8" - 12" SLOPE AT SLAB TO ALL FLOOR DRAIN LOCATIONS.
CP09	ALIGN FINISHED FACE OF WALL WITH FINISHED FACE OF ADJACENT WALL

WALL LEGEND

	12" CMU WALL . 4'-4" HEIGHT. SEE SHEET G005 FOR WALL TYPE.
	12" CMU WALL . 4'-4" HEIGHT. SEE SHEET G005 FOR WALL TYPE.
	METAL END WALL AND INTERIOR FRAME WALL . SEE SHEET G005 FOR WALL TYPE.
	2"X 6" INT. FRAMING WALL. SEE SHEET G005 FOR WALL TYPE.
	2"X 4" INT. FRAMING WALL. SEE SHEET G005 FOR WALL TYPE.
	6" WALL . 4'-4" HEIGHT. SEE SHEET G005 I5 & I6 WALL TYPE .
	6" CMU WALL . 4'-0" HEIGHT. SEE SHEET G005 FOR WALL TYPE.
	GIRDERS AND LEDGERS

SHARP DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
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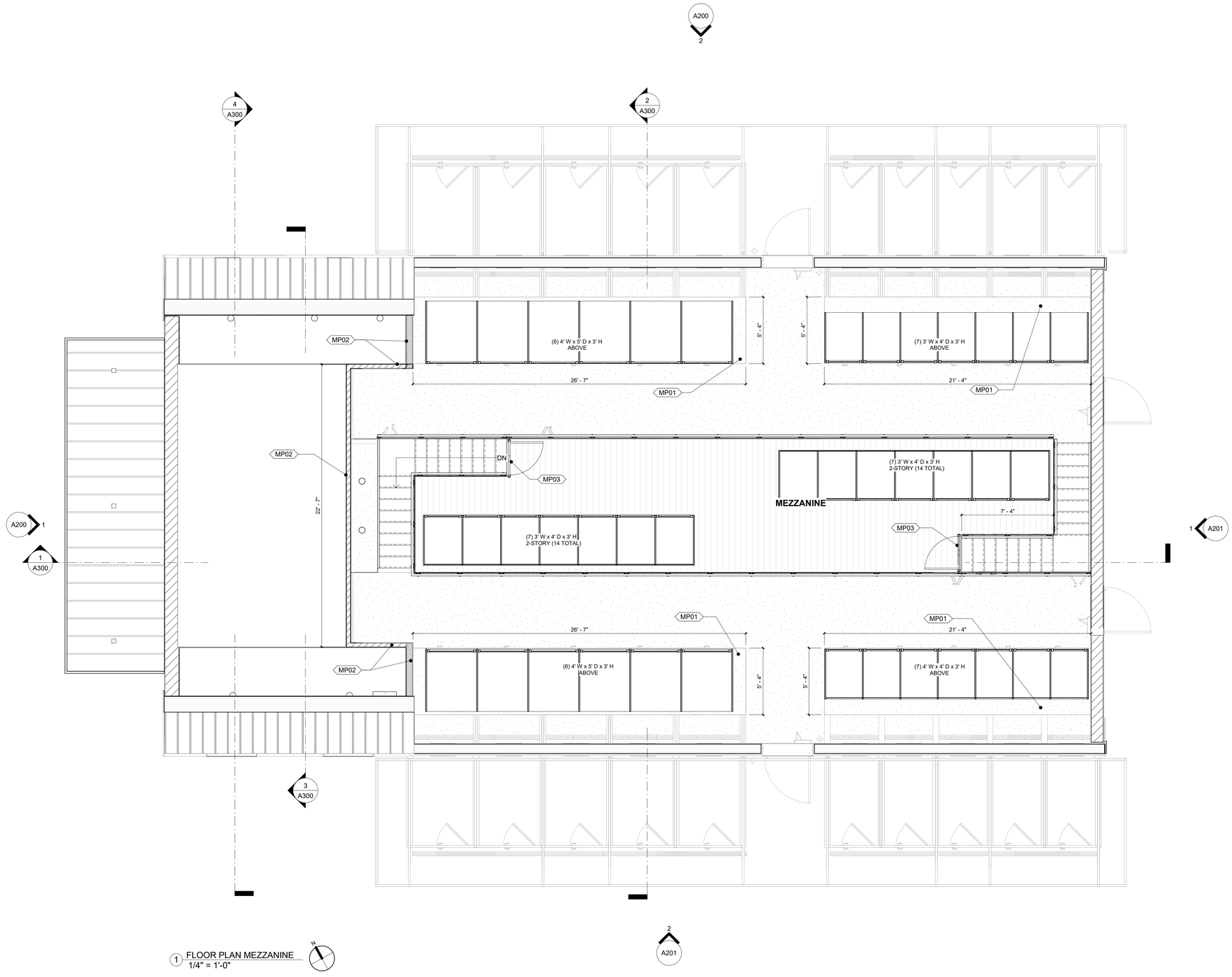
DIEGO DURAN, AIA
AR99267

FLOOR PLAN
FIRST LEVEL

A102

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1 FLOOR PLAN MEZZANINE
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL MASONRY OPENINGS AND COORDINATE ALL WINDOW SIZES WITH WINDOW MANUFACTURER PRIOR TO ORDERING MATERIALS. SHARP DESIGN STUDIO WILL NOT BE RESPONSIBLE FOR WINDOW/DOORS/LOUVERS THAT HAVE NOT BEEN COORDINATED BY CONTRACTOR AND/OR INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
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KEYNOTES -MEZZANINE FLOOR PLAN

Key Value	Keynote Text
MP01	4" CONCRETE SLAB OVER INDOOR PARTITIONS.
MP02	FRAME WALL INTERCEPTS THE VAULT.
MP03	42"HEIGHT GATE.

WALL LEGEND

	12" CMU WALL . 4'-4" HEIGHT. SEE SHEET G005 FOR WALL TYPE.
	12" CMU WALL . 4'-4" HEIGHT. SEE SHEET G005 FOR WALL TYPE.
	METAL END WALL AND INTERIOR FRAME WALL . SEE SHEET G005 FOR WALL TYPE.
	2"X 6" INT. FRAMING WALL. SEE SHEET G005 FOR WALL TYPE.
	2"X 4" INT. FRAMING WALL. SEE SHEET G005 FOR WALL TYPE.
	6" WALL . 4'-4" HEIGHT. SEE SHEET G005 I5 & I6 WALL TYPE .
	6" CMU WALL . 4'-0" HEIGHT. SEE SHEET G005 FOR WALL TYPE.
	GIRDERS AND LEDGERS

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CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN
DEVELOPMENT

ISSUE DATE:
8-7-2025

#	DESCRIPTION	DATE

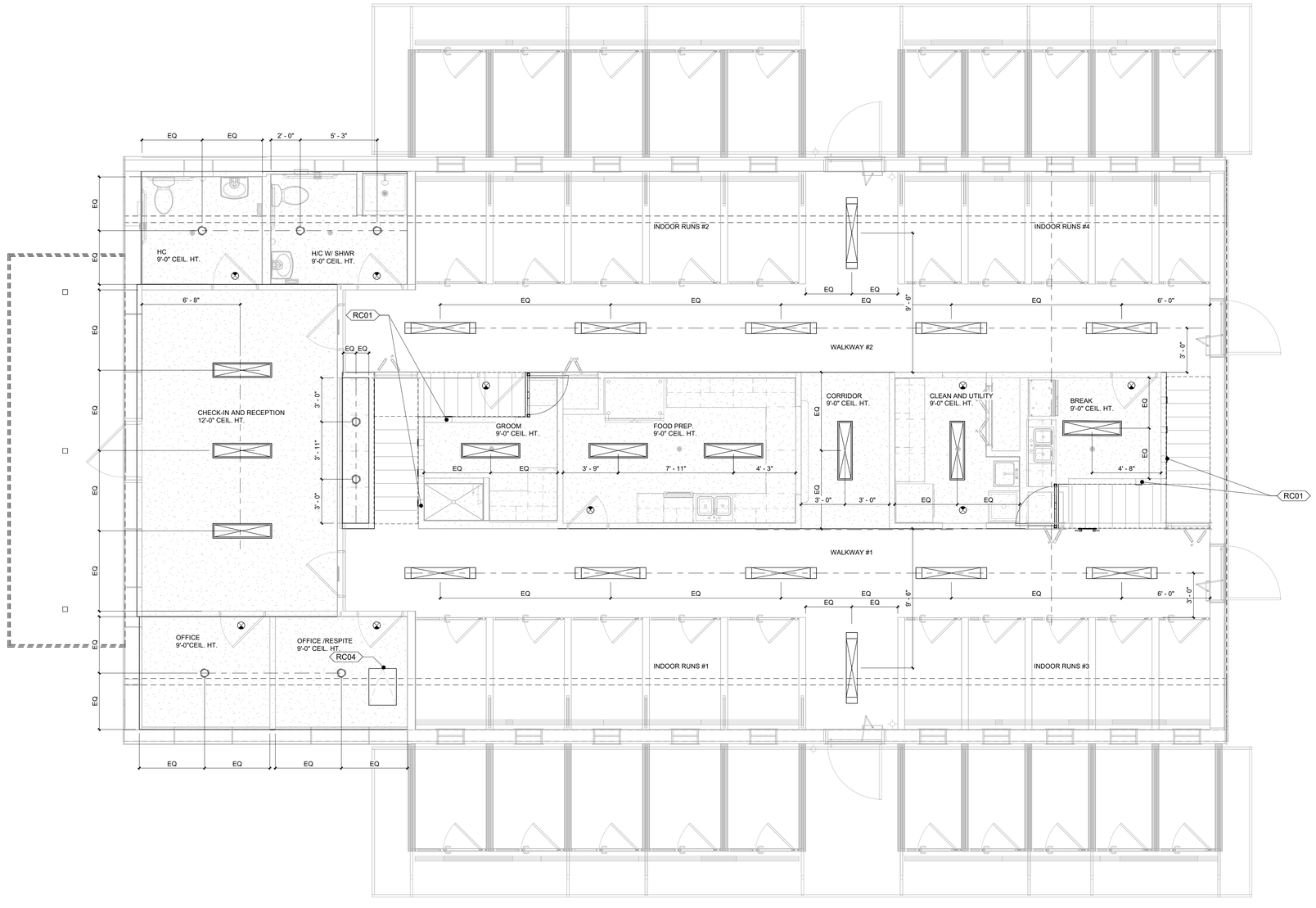
DIEGO DURAN, AIA
AR99267

FLOOR PLAN
MEZZANINE

A103

BID SET - NOT FOR CONSTRUCTION

K:\Clients\PETropolis\01 DWG\EXP\25-12-12 Revs. to Engs\8-15-2025_PETropolis.rvt
12/15/2025 11:37:25 AM



1 REFLECTED CEILING PLAN FIRST LEVEL
1/4" = 1'-0"

GENERAL RCP NOTES

1. RECESSED LIGHTING INSTALLED IN INSULATED CEILINGS SHALL BE RATED FOR INSULATION CONTACT, ICAT-RATED AND LABELED AS AIRTIGHT TO THE STANDARDS PRESCRIBED BY THE RESIDENTIAL ENERGY CODE.
2. ALL 120V, SINGLE PHASE, 15 & 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN A DWELLING UNIT SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
3. IN ALL AREAS SPECIFIED IN CEC 210.52, ALL 125 VOLT, 15 AND 20 AMPERE RECEPTACLES SHALL BE TAMPER RESISTANT.
4. PROVIDE AT LEAST TWO SEPARATE 20 AMP CIRCUITS FOR SMALL APPLIANCES IN KITCHEN, PANTRY, DINING ROOM AND SIMILAR AREAS, WITH NO OTHER OUTLETS ON THE CIRCUITS.
5. PROVIDE AT LEAST ONE 20 AMP CIRCUIT FOR BATHROOM OUTLETS, WITH NO OTHER OUTLETS ON THE CIRCUIT.
6. RECEPTACLES ARE TO BE LOCATED SO NO APPLIANCES ARE FURTHER THAN 2' FROM ANY PLUG. RECEPTACLES SHALL BE NO HIGHER THAN 20" ABOVE THE COUNTER.
7. PROVIDE SMALL APPLIANCE RECEPTACLES AT EACH KITCHEN COUNTER SPACE WIDER THAN 12", SUCH THAT NO POINT ALONG COUNTER WALL IS MORE THAN 24" FROM AN OUTLET.
8. THE MAXIMUM LENGTH FOR A GARBAGE DISPOSAL CORD IS 36" AND A DISHWASHER IS 48". MULTI-WIRE DUPLEX RECEPTACLES FOR GARBAGE DISPOSALS AND DISHWASHERS REQUIRE TIE-BARS ON THE BREAKER IN THE SERVICE PANEL.
9. IN BATHROOMS, RECEPTACLES TO BE LOCATED WITHIN 36" FROM THE EDGE OF THE SINK.
10. LIGHT FIXTURES LOCATED IN WET LOCATION MUST BE LISTED FOR WET LOCATION AND REQUIRE WATER RESISTANT TRIMS.
11. PROVIDE AT LEAST ONE NON-DEDICATED GFCI OUTLET IN GARAGE.
12. LUMINAIRES THAT ARE RECESSED INTO INSULATED CEILINGS ARE TO BE APPROVED IC LUMINAIRES AND ARE CERTIFIED AND LABELED AS AIRTIGHT TO THE STANDARDS PRESCRIBED BY THE RESIDENTIAL ENERGY CODE.
13. ALL RECESSED LIGHTING FIXTURES IN SPACES WHERE INSULATION IS REQUIRED SHALL BE IC RATED AND SHALL BE LABELED AIR TIGHT.
14. EXIT ACCESS ROUTES AND ACCESSIBLE ROUTES, MINIMUM CLEAR HEADROOM SHALL BE 6'-8", AT, INCLUDING BUT NOT LIMITED TO, ARCHITECTURAL FEATURES, CEILINGS, SIGNAGE, SOFFITS, EXPOSED STRUCTURE AND BUILDING SYSTEMS COMPONENTS,
15. SUCH AS LIGHT FIXTURES AND EXIT SIGNS, ETC.
16. STAIRS: MINIMUM CLEAR HEADROOM SHALL BE 7'-0" MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGE OF THE STAIRS, EXCEPT THAT MINIMUM CLEAR HEADROOM SHALL BE 6'-8" FOR STAIRS SERVING NO MORE THAN TWO DWELLING UNITS.
17. COORDINATE ARCHITECTURAL LAYOUT OF CEILINGS WITH BUILDING SYSTEMS WORK AND FINISH LOCATIONS OF EXPOSED COMPONENTS THEROF, PRIOR TO INSTALLATION OF THE WORK. REFER DISCREPANCIES BETWEEN DRAWING LAYOUTS AND CONDITIONS OF INSTALLED STRUCTURAL WORK TO THE ARCHITECT FOR RESOLUTION.
18. CEILING ELEVATIONS ARE NOMINAL AND ARE DIMENSIONED FROM STRUCTURAL FLOOR OR SUBFLOOR ELEVATIONS (ASF), AS THICKNESS OF FLOOR FINISH MATERIALS MAY VARY.
19. PROVIDE CEILING GYPSUM BOARD CONTROL JOINTS AS SHOWN AND IN ACCORDANCE WITH INDUSTRY STANDARD BEST PRACTICE.
20. G.C. TO COORDINATE LIGHT FIXTURE SELECTIONS WITH ELECTRICAL DOCUMENTS.
21. G.C. TO PROVIDE POWER AND IN-WALL BLOCKING AS REQUIRED FOR ALL BUILDING SIGNAGE TYP. COORDINATE LOCATIONS AND REQUIREMENTS WITH OWNER'S SIGNAGE VENDOR.
22. ALL LIGHTING AND OUTLET JUNCTION BOXES, CONDUIT, ETC. ON MASONRY OR CONCRETE WALLS SHALL BE RECESSED FOR A FINISHED APPEARANCE. COORDINATE WITH ARCHITECT FOR ANY CONDITIONS WHERE THIS IS NOT FEASIBLE.
23. ALL FIXTURES SCHEDULED FOR INSTALLATION IN HIGH HUMIDITY OR WET ENVIRONMENTS (EXTERIOR OF BUILDING, NON-CONDITIONED SPACE, BATHROOMS, ETC) SHALL CARRY APPROPRIATE LOCATION RATING.
24. CEILING LAYOUT IS BASED ON TRUSS DESIGN AT THE TIME OF PERMITTING. SHOULD THE TRUSS DESIGN CHANGE, THE CEILING PLAN MAY NEED TO BE ADJUSTED TO ACCOMODATE THE REVISED TRUSS LAYOUT. GC TO VERIFY BEFORE CONSTRUCTION.

KEYNOTES -CEILING PLAN

Key Value	Keynote Text
RC01	HORIZONTAL LED MOTION SENSOR STEP LIGHT. LOCATED ON THE WALL SIDE OF THE STAIR, REFER TO ELECT.
RC03	FULL-HEIGHT WALL ALL THE WAY TO CURVED ROOF.
RC04	APPROXIMATE LOCATION OF 22" X 36" CEILING ATTIC ACCESS BELOW. CONTRACTOR TO COORDINATE FINAL LOCATION WITH FRAMING AND CEILING LIGHT LOCATION. CLEAR HEIGHT OF THE ATTIC SPACE AT THE PANEL LOCATION SHOULD BE 36" MIN.

CEILING PLAN LEGEND

- LED 6" RECESSED DOWN LIGHT WITH 10W LED LAMP
- 4' LED WRAPAROUND FIXTURE
- 2' LED WRAPAROUND FIXTURE SUSPENDED
- HORIZONTAL LED MOTION SENSOR STEP LIGHT
- ILLUMINATED EXIT SIGN*

BID SET - NOT FOR CONSTRUCTION

SHARP DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

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CLIENT

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22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN
DEVELOPMENT

ISSUE DATE:
8-7-2025

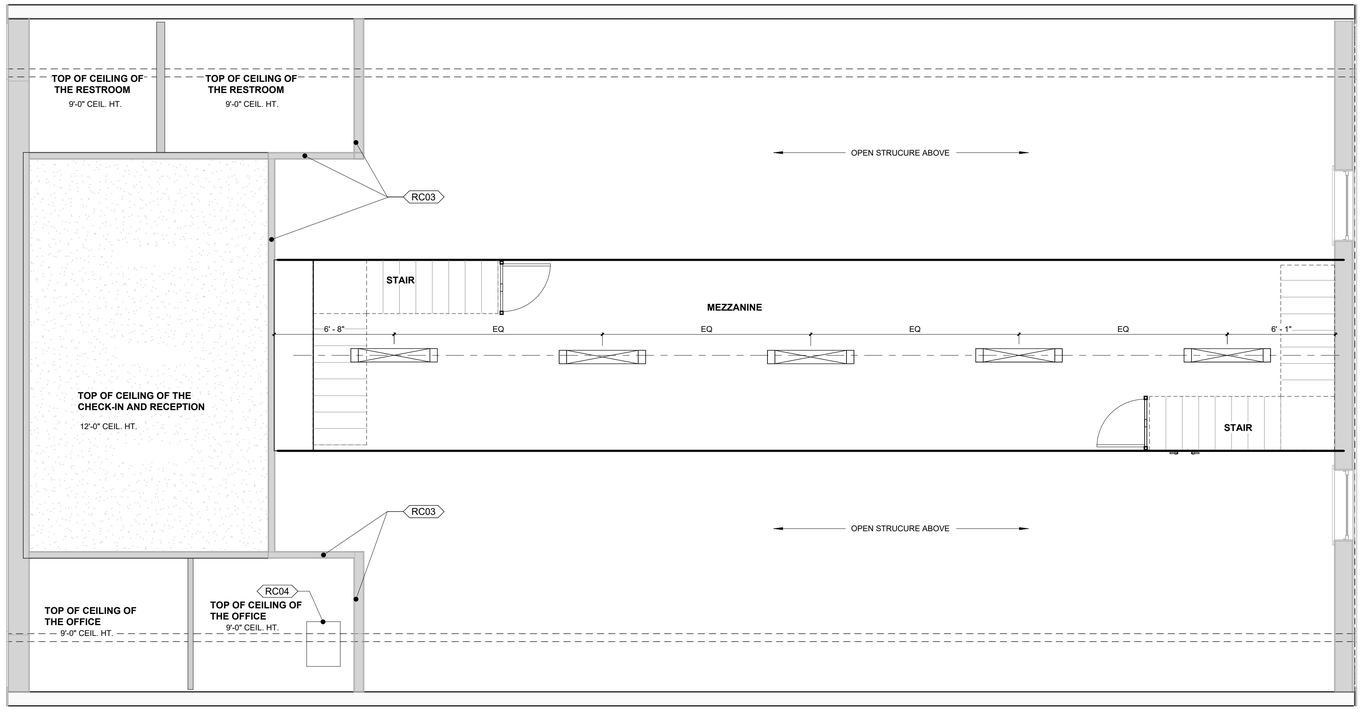
#	DESCRIPTION	DATE

DIEGO DURAN, AIA
AR99267

REFLECTED CEILING PLAN. FIRST LEVEL.

A104

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1 REFLECTED CEILING PLAN (VAULT)
1/4" = 1'-0"

GENERAL RCP NOTES

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KEYNOTES -CEILING PLAN

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CEILING PLAN LEGEND

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- 2' LED WRAPAROUND FIXTURE SUSPENDED
- HORIZONTAL LED MOTION SENSOR STEP LIGHT
- ILLUMINATED EXIT SIGN*

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TAMPA, FL 33626
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CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN DEVELOPMENT

ISSUE DATE:
8-7-2025

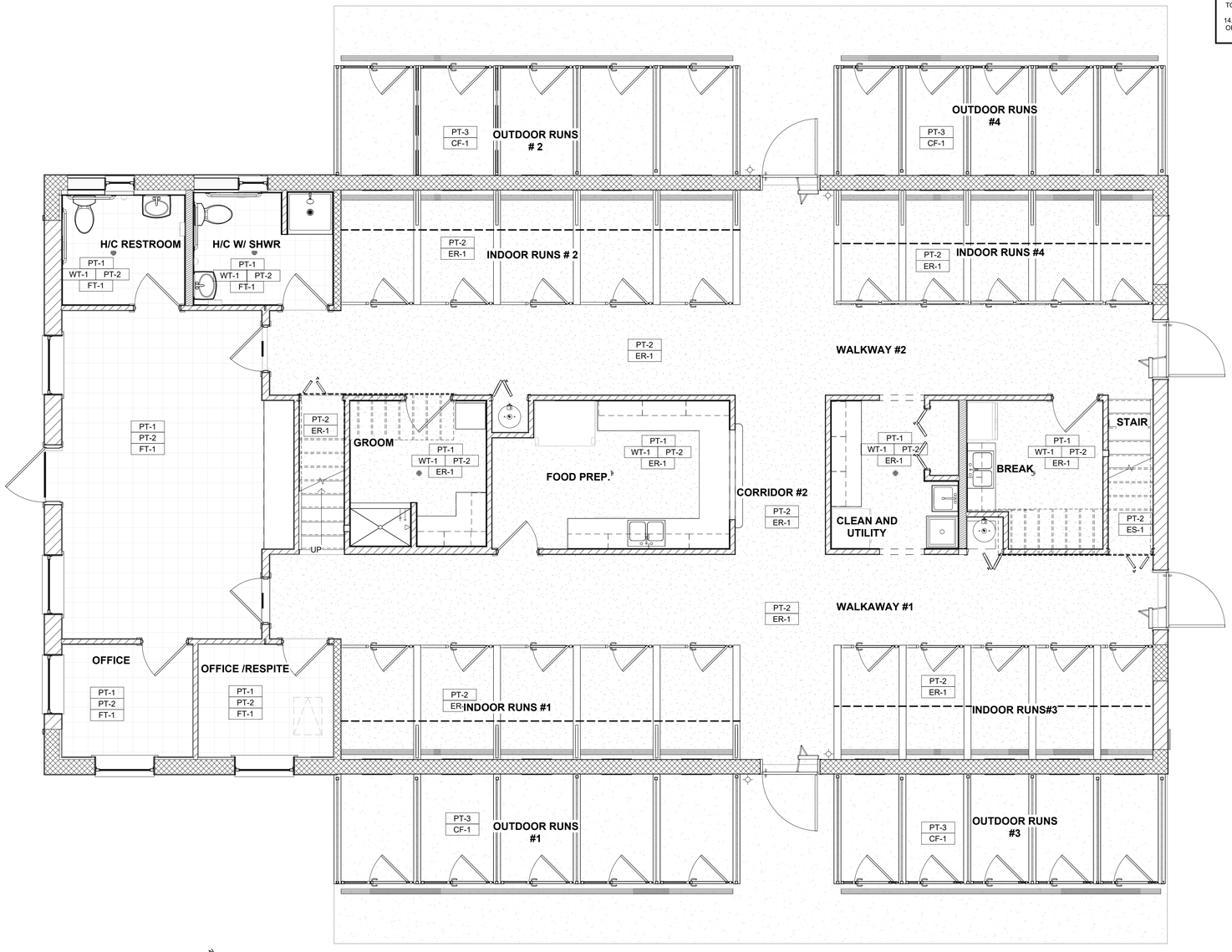
#	DESCRIPTION	DATE

DIEGO DURAN, AIA
AR99267

REFLECTED CEILING PLAN. MEZZANINE (VAULT)

A105

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1 FINISH PLAN FIRST LEVEL
1/4" = 1'-0"

GENERAL NOTES - FINISH PLAN

1. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK'S COMPLIANCE WITH ALL APPLICABLE LOCAL CODES, ORDINANCES, AND REGULATIONS, AS WELL AS WITH ALL TRADE STANDARDS OR PROFESSIONAL QUALITY WORKMANSHIP.

2. SDS ARCHITECTS IS ONLY RESPONSIBLE FOR FINISHES SPECIFIED ON FINISH PLANS AND SPECIFICATIONS AS PREPARED BY SDS ARCHITECTS.

3. ALL FINISH DESIGNATIONS ARE SHOWN MONUMENTALLY UNLESS KEYED SPECIFICALLY ON PLAN.

4. ALL FINISHES ARE TO BE PROVIDED AND INSTALLED BY PROFESSIONAL CONTRACTORS, QUALIFIED TO INSTALL THE TYPE OF FINISH SPECIFIED. TILE SHALL BE INSTALLED IN ACCORDANCE WITH THE TILE COUNCIL OF NORTH AMERICA GUIDELINES.

5. CONTRACTOR(S) SHALL ADHERE TO ALL CURRENT MANUFACTURER WRITTEN SPECIFICATIONS FOR APPROVED INSTALLATION METHODS (FOR EXAMPLE, BUT NOT LIMITED TO, ADHESIVE TYPES, CUTTING METHODS, SEALERS AND PRIMERS) AND SHALL INFORM ARCHITECT SHOULD MANUFACTURER NOT HAVE SUCH WRITTEN MATERIAL.

6. CONTRACTOR(S) SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE WHICH WILL IMPACT OR INTERFACE WITH HIS WORK AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND CONTRACT DOCUMENTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK

7. CONTRACTOR TO PROVIDE ACTUAL SAMPLES OF ALL SPECIFIED FINISHES AND MATERIAL TO SDS ARCHITECTS FOR APPROVAL PRIOR TO ORDERING. SAMPLES SHALL BE SUBMITTED IN A TIMELY MANNER AS TO NOT IMPACT THE OVERALL PROJECT SCHEDULE.

8. CONTRACTOR(S) SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ADJACENT SURFACES DURING INSTALLATION AND TO PROTECT FINAL INSTALLED FINISH MATERIAL(S) FROM OTHER TRADES.

9. EACH MATERIAL TO BE OF THE SAME DYE LOT.

10. ALL PAINT SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS FOR THE PARTICULAR SURFACE. TWO (2) FINISH COATS MINIMUM APPLICATION AFTER ONE PRIME COAT.

11. ALL CHANGES IN FLOOR FINISH MATERIALS OCCURRING AT DOORWAYS SHALL BE AT THE CENTERLINE OF THE DOOR OR DOORWAY UNLESS NOTED OTHERWISE. ALL OTHER FLOOR FINISH TRANSITIONS SHALL BE ACCOMPLISHED SMOOTHLY TO THE SATISFACTION OF THE ARCHITECT AND BUILDING OWNER.

12. CONTRACTOR TO NOTE THAT ALL FINISHES TO BE SUPPLIED PER SPECIFICATION - NO SUBSTITUTIONS ALLOWED.

13. TILE AND PAVER PATTERNS ARE SHOWN FOR GRAPHIC PURPOSES ONLY. TILE AND PAVER SPECIFICATIONS AND INSTALLATION PATTERN TO BE AS SHOWN ON FINISH MATERIAL SCHEDULE. TILE LAYOUT SHOULD ALWAYS BE CENTERED ON EACH WALL WHERE POSSIBLE.

14. ANSI A108.02 SECTION 4.3.8 GROUT JOINT MINIMUM IS 1/8". WHEN INSTALLING IN RUNNING BOND/BRICK JOINT PATTERN, A MAXIMUM 30% OFFSET IS RECOMMENDED ALONG WITH 3/16" GROUT JOINT.

FINISH MATERIAL SCHEDULE

Key Name	MATERIAL TYPE	COMMENTS
CF-1	CONCRETE FLOOR	
ER-1	EPOXI RESIN	
ES-1	ENGINEERED STRUCTURAL FLOORING FOR INDUSTRIAL PLATFORMS	
FT-1	FLOOR TILE	GROUT
PT-1	PAINT	CEILING PAINT
PT-2	PAINT (INTERIOR)	GENERAL WALL /DRYWALL PAINT
PT-3	PAINT (EXTERIOR)	SIDING,WALL STUCCO & COLUMN SHAFT
PT-4	PAINT (EXTERIOR	CAPS , BANDS & TRIMS
WT-1	WALL TILE	MATTE

FINISH PLAN LEGEND

WT-1	WALL TILE
PT-1	CEILING FINISH
PT-2	WALL FINISH (INTERIOR)
PT-3	WALL FINISH (EXTERIOR)
PT-4	CAPS, BANDS & TRIMS FINISH
CF-1	CONCRETE FLOOR FINISH
FT-1	FLOOR TILE FINISH
ER-1	EPOXI RESIN
ES-1	ENGINEERED STRUCTURAL FLOORING FOR INDUSTRIAL PLATFORMS

BID SET - NOT FOR CONSTRUCTION

SHARP DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
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CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN
DEVELOPMENT

ISSUE DATE:
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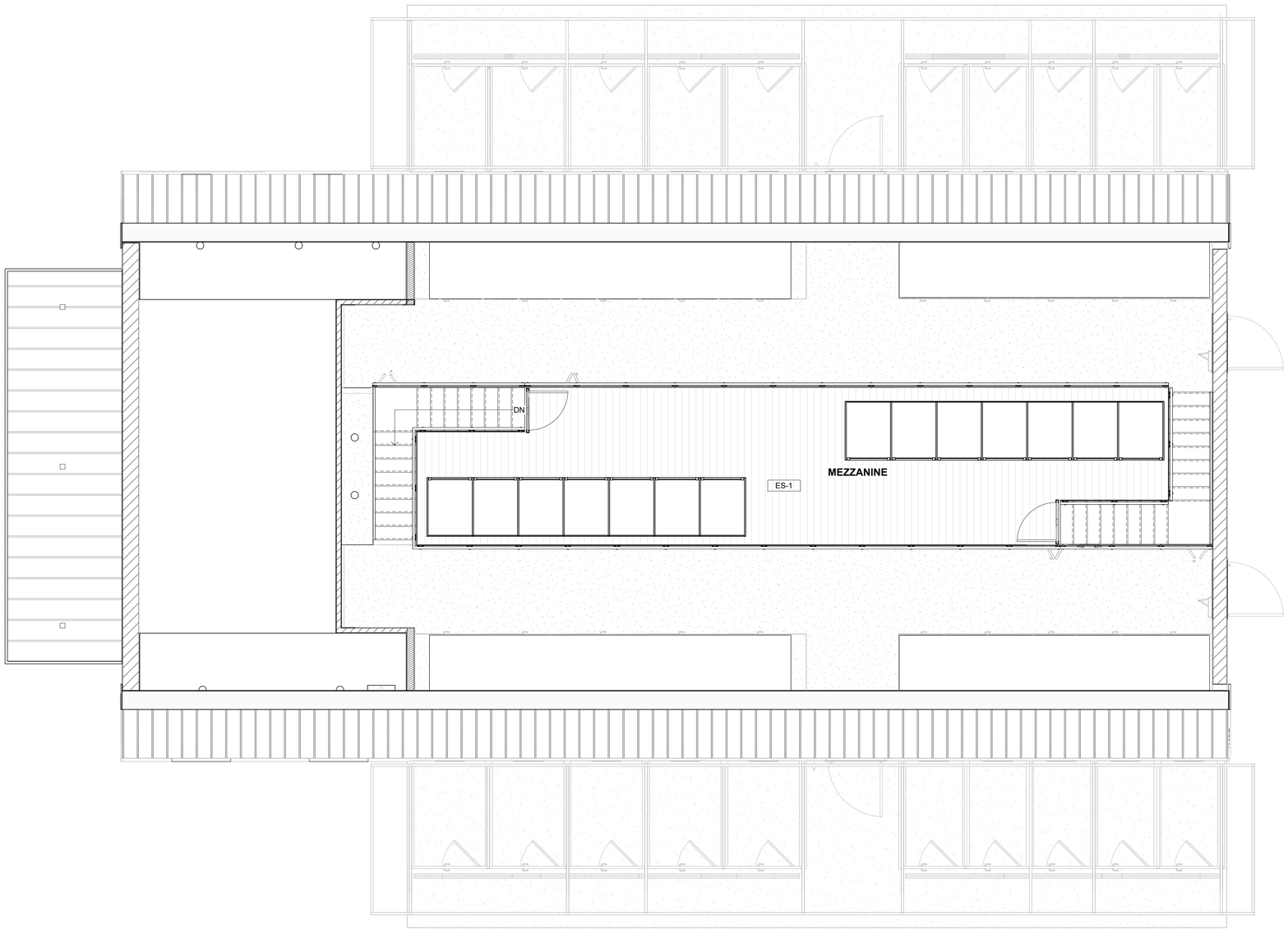
#	DESCRIPTION	DATE

DIEGO DURAN, AIA
AR99267

FINISH PLAN &
SCHEDULES.
FIRST LEVEL

A106

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1 FINISH PLAN MEZZANINE
1/4" = 1'-0"

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PT-4	PAINT (EXTERIOR	CAPS , BANDS & TRIMS
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FINISH PLAN LEGEND

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PT-1	CEILING FINISH
PT-2	WALL FINISH (INTERIOR)
PT-3	WALL FINISH (EXTERIOR)
PT-4	CAPS, BANDS & TRIMS FINISH
CF-1	CONCRETE FLOOR FINISH
FT-1	FLOOR TILE FINISH
ER-1	EPOXI RESIN
ES-1	ENGINEERED STRUCTURAL FLOORING FOR INDUSTRIAL PLATFORMS

SHARP DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

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consultant logo

CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN
DEVELOPMENT

ISSUE DATE:
8-7-2025

#	DESCRIPTION	DATE

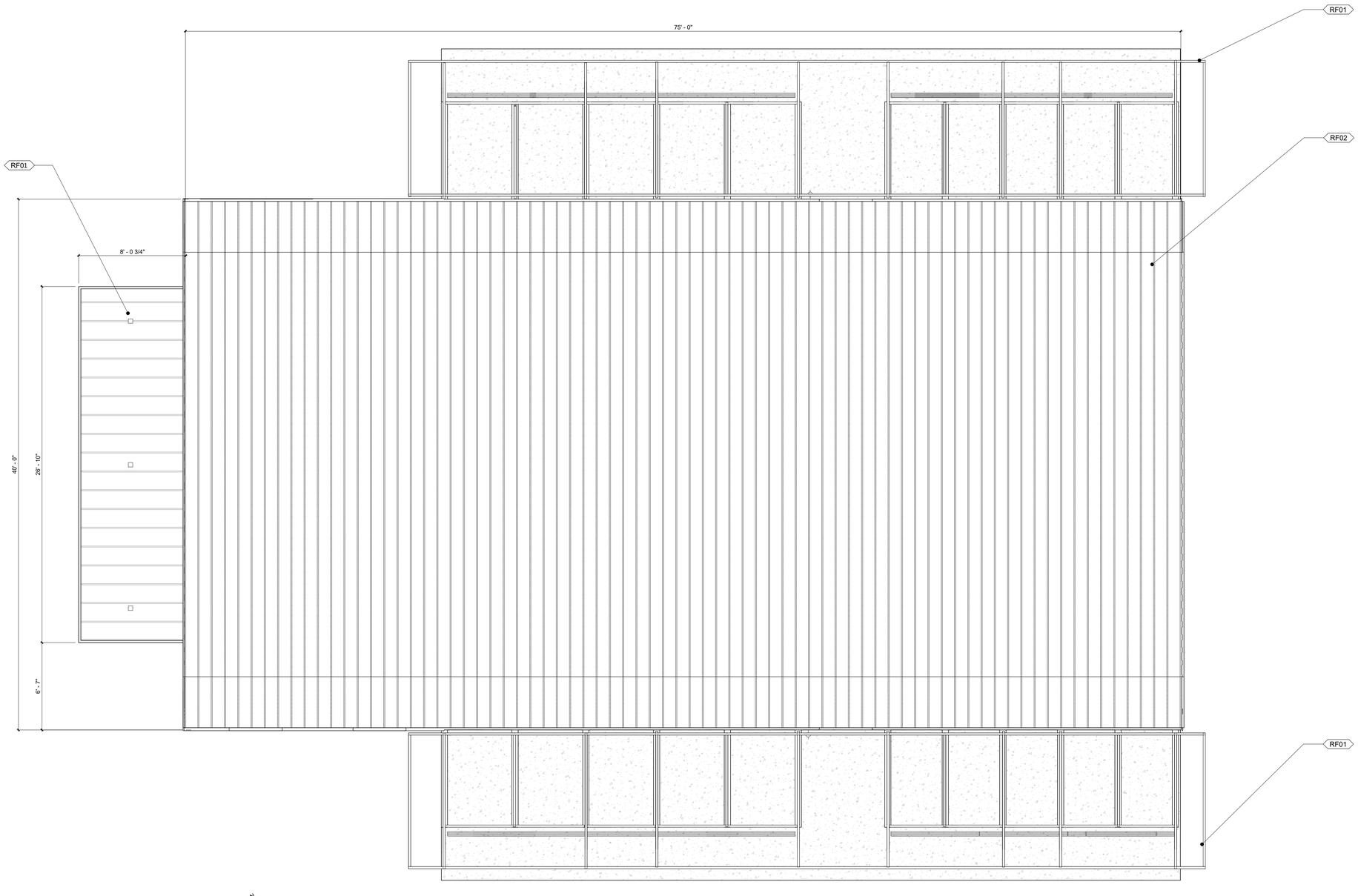
DIEGO DURAN, AIA
AR99267

FINISH PLAN &
SCHEDULES.
MEZZANINE

A107

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1 ROOF PLAN
1/4" = 1'-0"

KEYNOTES - ROOF PLAN	
Key Value	**Keynote Text**
RF01	SHADE STRUCTURE (BY OTHERS).
RF02	PRE-MANNUFACTURE VAULT METAL STRUCTURE.

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8-7-2025

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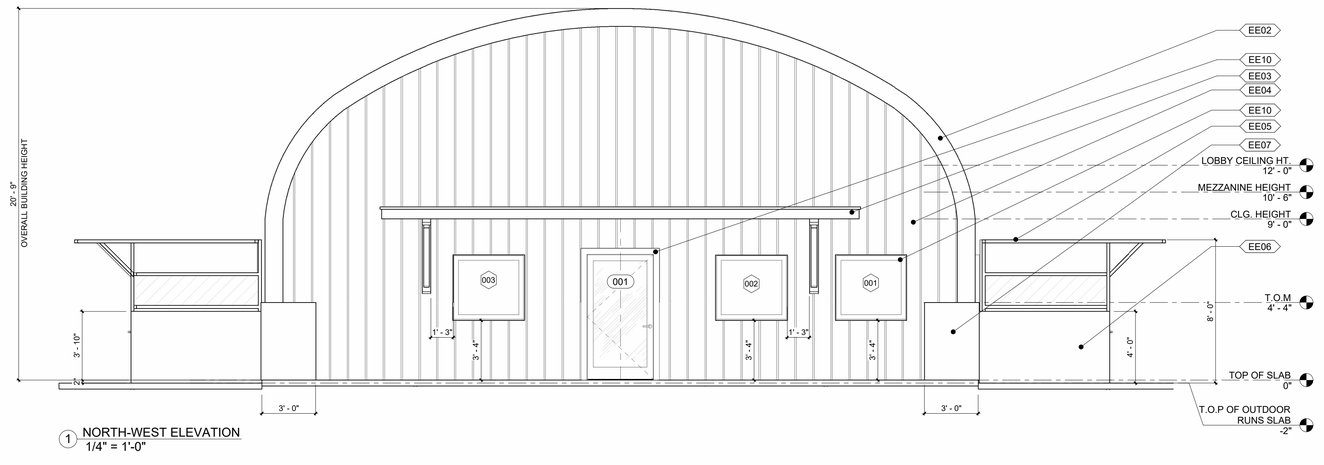
DIEGO DURAN, AIA
AR99267

ROOF PLAN

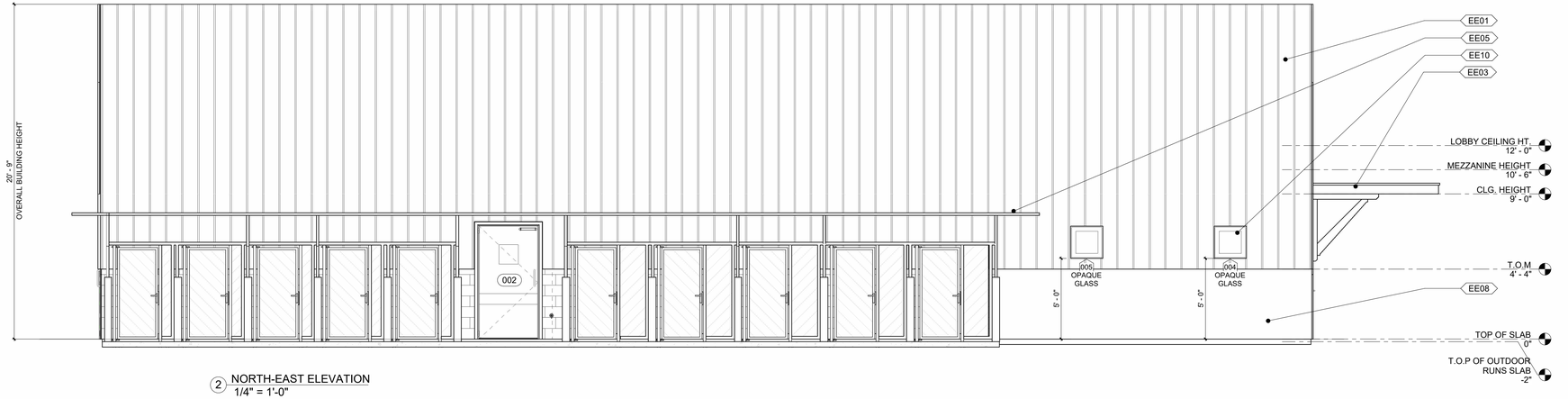
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1 NORTH-WEST ELEVATION
1/4" = 1'-0"



2 NORTH-EAST ELEVATION
1/4" = 1'-0"

EXTERIOR ELEVATION GENERAL NOTES

1. CEMENT PLASTER FINISH OVER CONCRETE MASONRY SHALL BE 5/8" THICK TEXTURED.
2. CEMENT PLASTER FINISH OVER WOOD FRAMED WALLS SHALL BE 7/8" (3-COAT) TEXTURED, OVER ASPHALT IMPREGNATED PAPER BACK WIRE LATH, OVER HOUSE WRAP OVER EXTERIOR SHEATHING PER STRUCTURAL DRAWINGS. LATHE TO BE FURRED OUT FROM BACKING BY AN APPROVED METHOD, FLORIDA BUILDING CODE 8TH EDITION (2023)
3. FRONT ELEVATIONS: BANDING, MOLDING, COLUMNS & TRIM SHALL RECEIVE A SAND FINISH. SEE ELEVATION FOR DEPTH OF RAISED BANDING.
4. WEEP SCREED SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE 8TH EDITION (2023)
5. FLASHING SHALL BE INSTALLED AT WALL AND ROOF INTERSECTIONS, DECK AND WALL INTERSECTIONS, AT GUTTERS, AT ALL CHANGES IN ROOF SLOPE OR DIRECTION, AND AROUND ROOF OPENINGS
6. WINDOW PAN FLASHING SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE 8TH EDITION (2023)
7. WALL HEIGHTS: VERIFY ALL BEARING WALL HEIGHTS WITH FINAL TRUSS LAYOUTS

KEYNOTES -EXTERIOR ELEVATION

Key Value	Keynote Text
EE01	PRE-MANUFACTURE VAULT METAL STRUCTURE.
EE02	1" METAL FLASHING PER MANUFC SPEC.
EE03	PRE-ENGINEERED METAL CANOPY (BY OTHERS). DRAINAGE ON CANOPY PER SHOP DWGS'
EE04	END WALL PANEL.
EE05	FENCE AND SHADES STRUCTURE OVER C.M.U (BY OTHERS)
EE06	5/8" STUCCO OVER 6" C.M.U EXTERIOR OUTDOOR PARTITION SIDE.
EE07	5/8" STUCCO OVER 12"C.M.U WALL RETURN.
EE08	5/8" STUCCO OVER 12" C.M.U WALL.
EE10	INSTALL PER MANUFACTURER'S SPECIFICATION.

BID SET - NOT FOR CONSTRUCTION

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CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN
DEVELOPMENT

ISSUE DATE:
8-7-2025

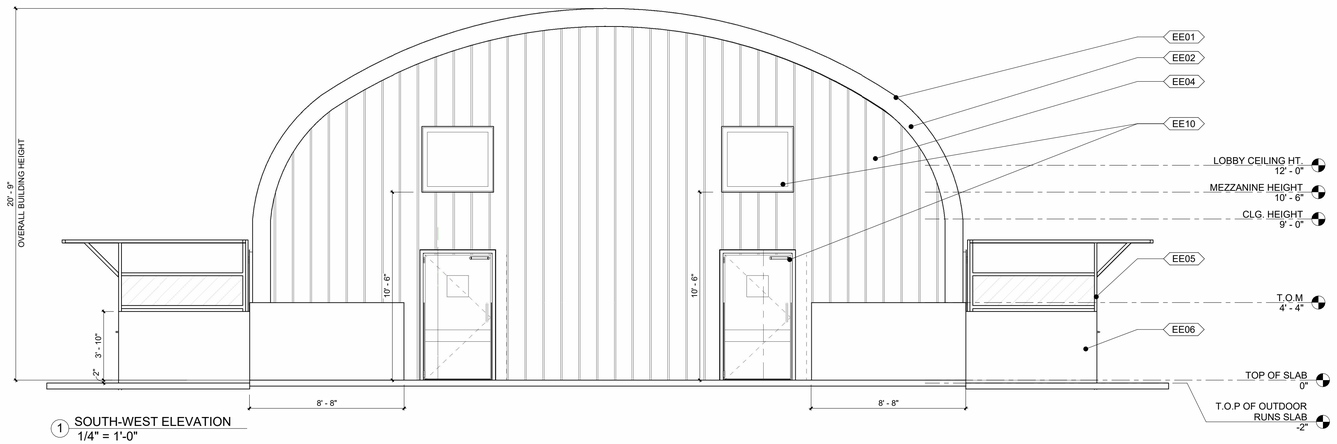
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AR99267

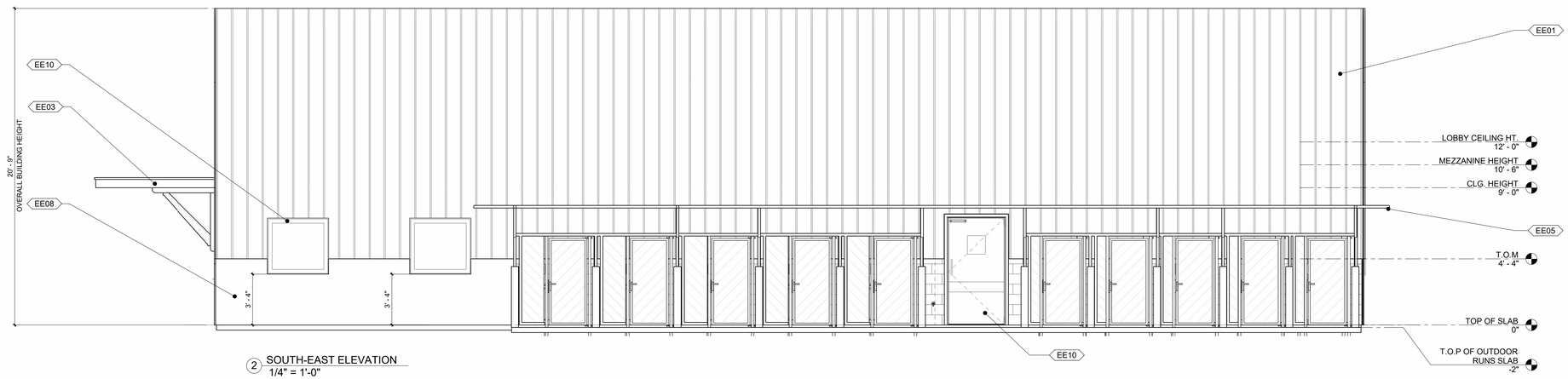
NORTH-WEST &
NORTH-EAST
ELEVATIONS

A200

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12/15/2025 11:37:40 AM



1 SOUTH-WEST ELEVATION
1/4" = 1'-0"



2 SOUTH-EAST ELEVATION
1/4" = 1'-0"

EXTERIOR ELEVATION GENERAL NOTES

1. CEMENT PLASTER FINISH OVER CONCRETE MASONRY SHALL BE 5/8" THICK TEXTURED.
2. CEMENT PLASTER FINISH OVER WOOD FRAMED WALLS SHALL BE 7/8" (3-COAT) TEXTURED, OVER ASPHALT IMPREGNATED PAPER BACK WIRE LATH, OVER HOUSE WRAP OVER EXTERIOR SHEATHING PER STRUCTURAL DRAWINGS. LATHE TO BE FURRED OUT FROM BACKING BY AN APPROVED METHOD, FLORIDA BUILDING CODE 8TH EDITION (2023)
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6. WINDOW PAN FLASHING SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE 8TH EDITION (2023)
7. WALL HEIGHTS: VERIFY ALL BEARING WALL HEIGHTS WITH FINAL TRUSS LAYOUTS

KEYNOTES -EXTERIOR ELEVATION

Key Value	Keynote Text
EE01	PRE-MANUFACTURE VAULT METAL STRUCTURE.
EE02	1' METAL FLASHING PER MANUFC SPEC.
EE03	PRE-ENGINEERED METAL CANOPY (BY OTHERS). DRAINAGE ON CANOPY PER SHOP DWGS
EE04	END WALL PANEL.
EE05	FENCE AND SHADES STRUCTURE OVER C.M.U (BY OTHERS)
EE06	5/8" STUCCO OVER 6" C.M.U EXTERIOR OUTDOOR PARTITION SIDE.
EE07	5/8" STUCCO OVER 12"C.M.U WALL RETURN.
EE08	5/8" STUCCO OVER 12" C.M.U WALL.
EE10	INSTALL PER MANUFACTURER'S SPECIFICATION.

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CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN
DEVELOPMENT

ISSUE DATE:
8-7-2025

#	DESCRIPTION	DATE

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SOUTH-EAST &
SOUTH-WEST
ELEVATIONS

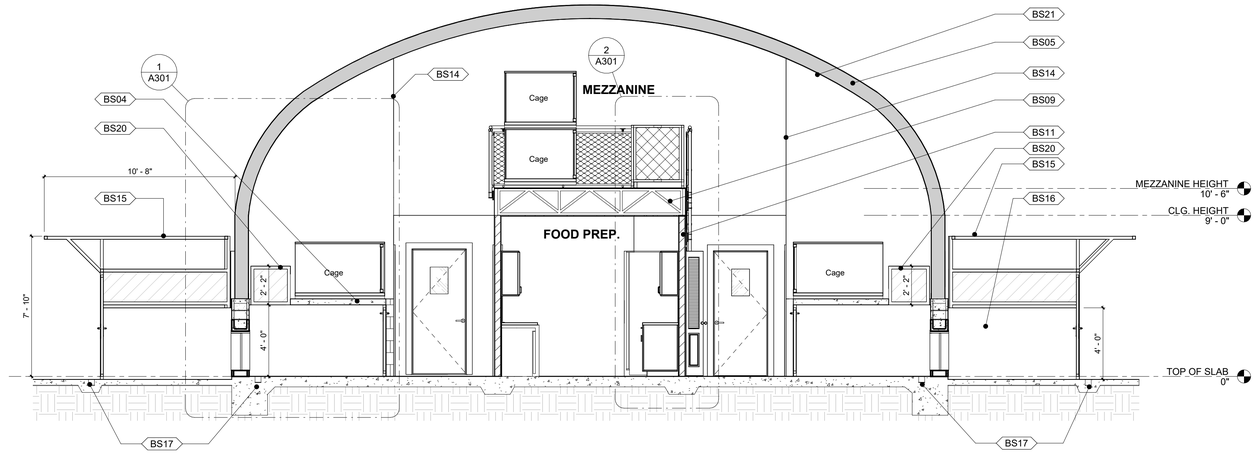
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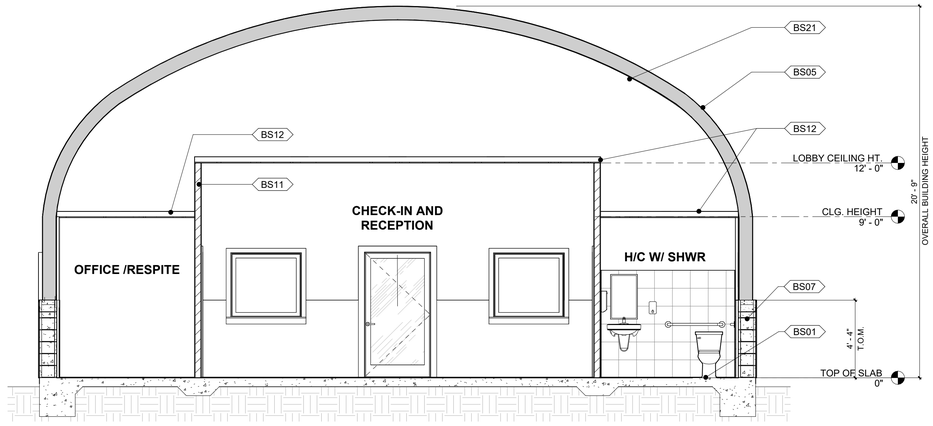
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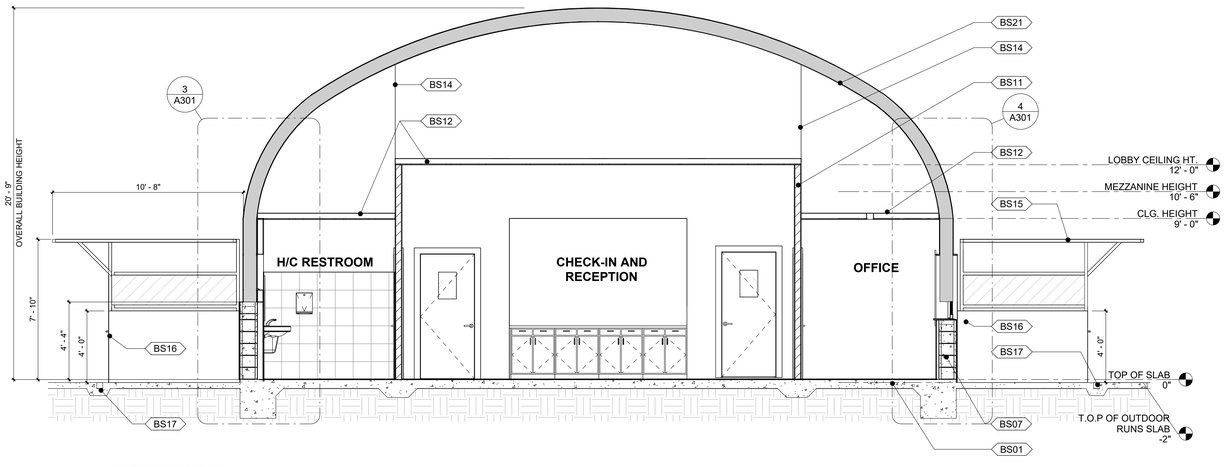
1 LONGITUDINAL SECTION
1/4" = 1'-0"



2 CROSS SECTION
1/4" = 1'-0"



3 CROSS SECTION-2
1/4" = 1'-0"



4 CROSS SECTION-3
1/4" = 1'-0"

KEYNOTES -BUILDING SECTIONS

Key Value	Keynote Text
BS01	4" THICK CONCRETE SLAB PER STRUCTURAL DRAWINGS.
BS04	4" CONCRETE SLAB. REFER TO STRUCTURE.
BS05	PRE-MANUFACTURE VAULT METAL STRUCTURE.
BS06	42" HIGH METAL RAILING (BY OTHERS).
BS07	12" C.M.U WALL. REFER TO STRUCTURE.
BS08	PRE-ENGINEERED METAL CANOPY (BY OTHERS). DRAINAGE ON CANOPY PER SHOP DWGS.
BS09	FLOOR JOIST FRAMING. REFER TO STRUCTURE.
BS10	END WALL PANEL (SEE WALL PARTITION).
BS11	INTERIOR WOOD FRAMING.
BS12	CEILING FRAMING STRUCTURE.
BS13	VERTICAL LED MOTION SENSOR STEP LIGHT. REFER TO ELEC.
BS14	FULL-HIGHT WALL TO UNDERSIDE OF CURVED ROOF.
BS15	FENCE, GATES & SHADOWS STRUCTURE OVER CMU WALL (BY OTHERS).
BS16	6" C.M.U WALL (RUNS PARTITIONS).
BS17	4"W X 4"D WASTE TRENCH. COORDINATE W/PLUMB.
BS18	METAL CAGES (TYPICAL).
BS20	FENCE STRUCTURE OVER C.M.U WALL (BY OTHER).
BS21	FRP PANEL ATTACHED TO THE INTERIOR FACE OF THE PRE-MANUFACTURED VAULT METAL STRUCTURE.

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22-1433

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PETROPOLIS
PHASE 1

PROJECT ADDRESS:
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4113200240040 &
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DESIGN DEVELOPMENT

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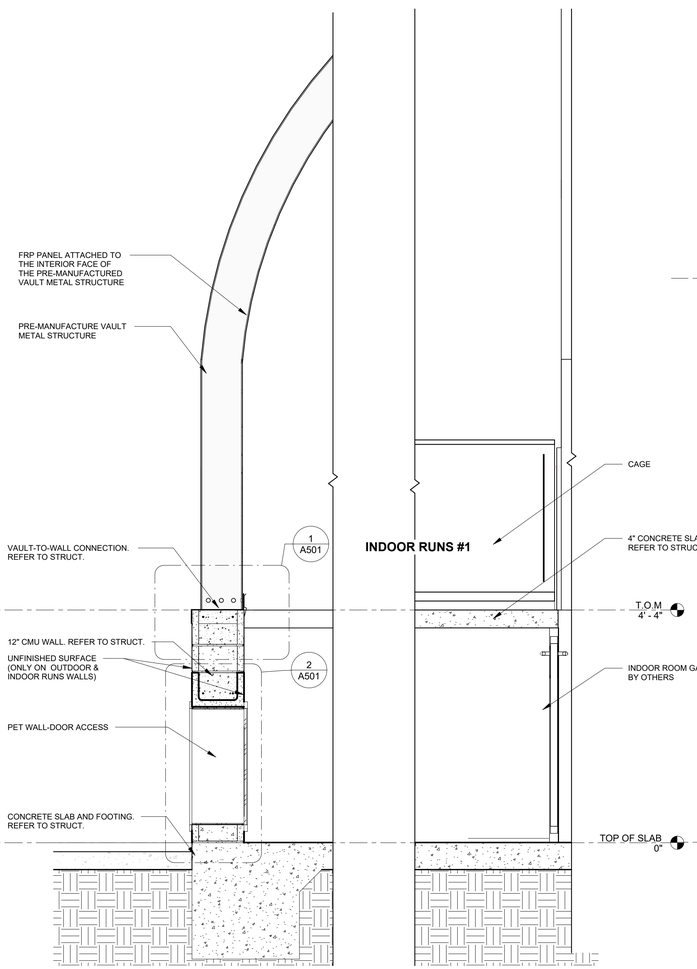
DIEGO DURAN, AIA
AR99267

BUILDING SECTIONS

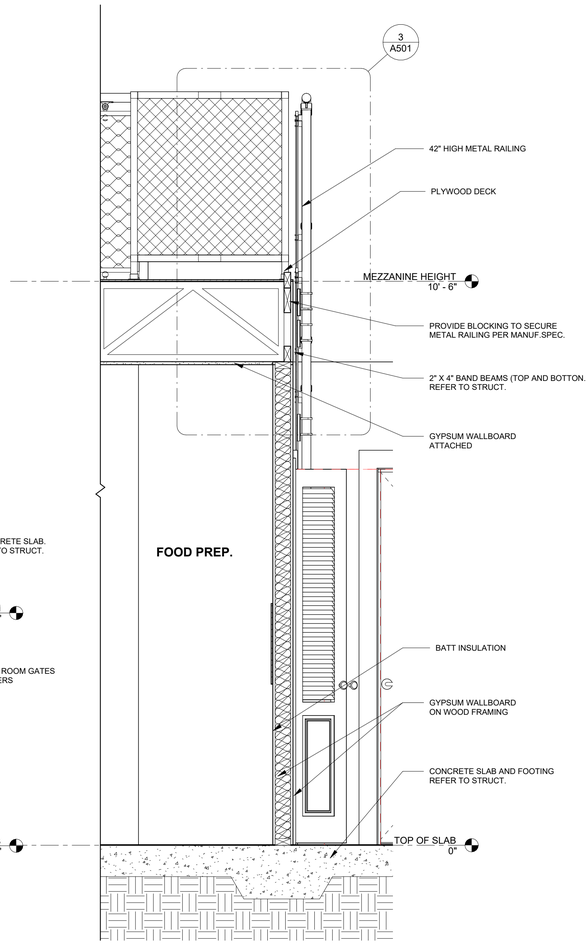
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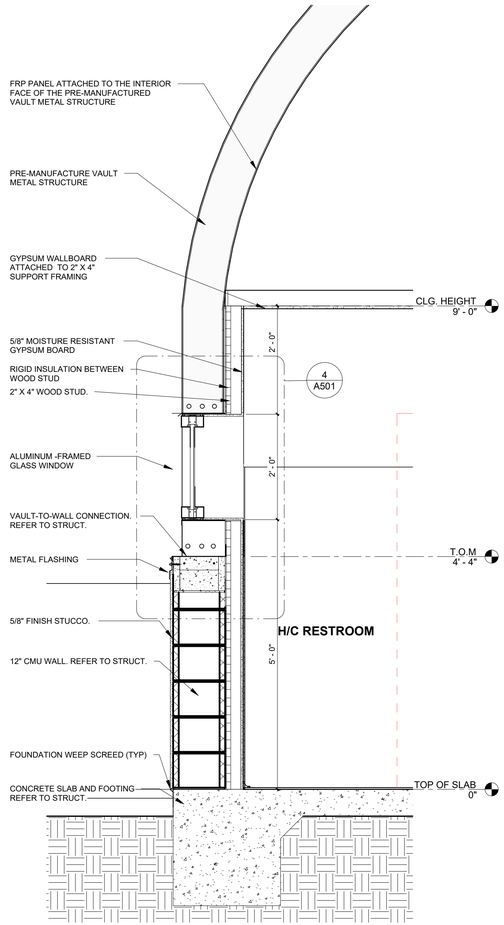
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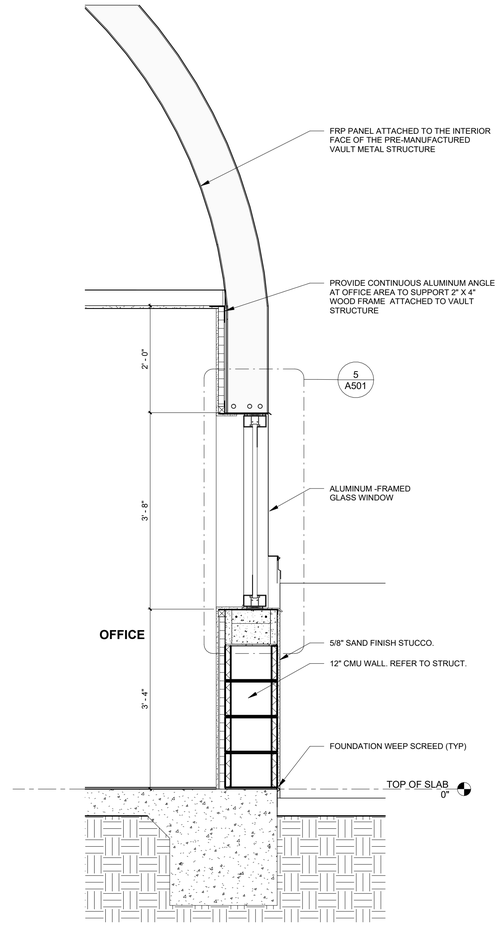
1 WALL SECTION AT INDOOR RUNS #1
SCALE: 3/4" = 1'-0"



2 WALL SECTION AT FOOD PREP.
SCALE: 3/4" = 1'-0"



3 WALL SECTION AT H/C RESTROOM
SCALE: 3/4" = 1'-0"



4 WALL SECTION AT OFFICE
SCALE: 3/4" = 1'-0"

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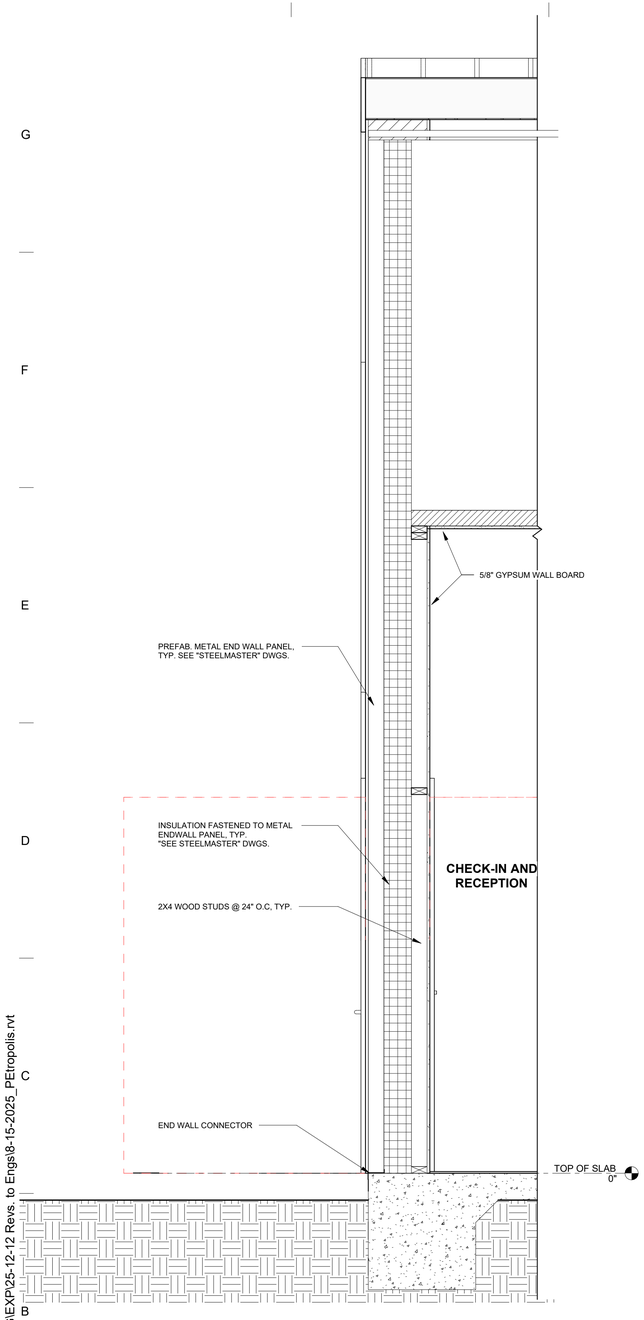
DIEGO DURAN, AIA
AR99267

WALL SECTIONS

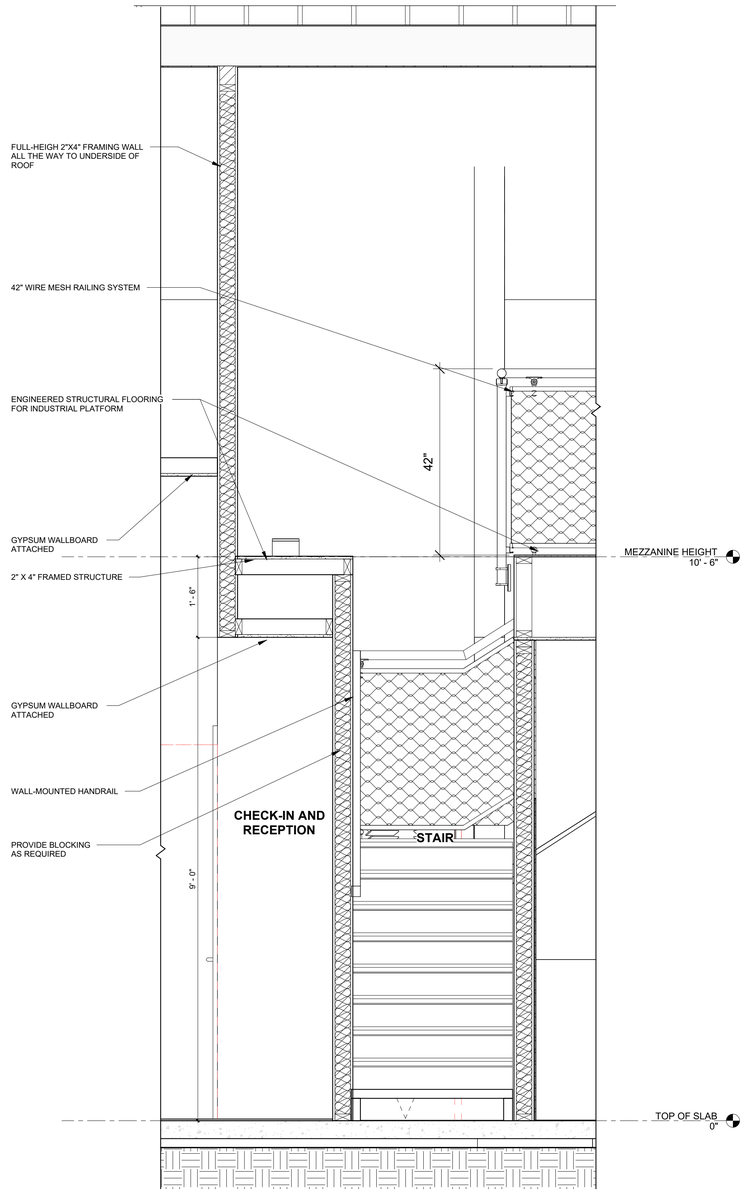
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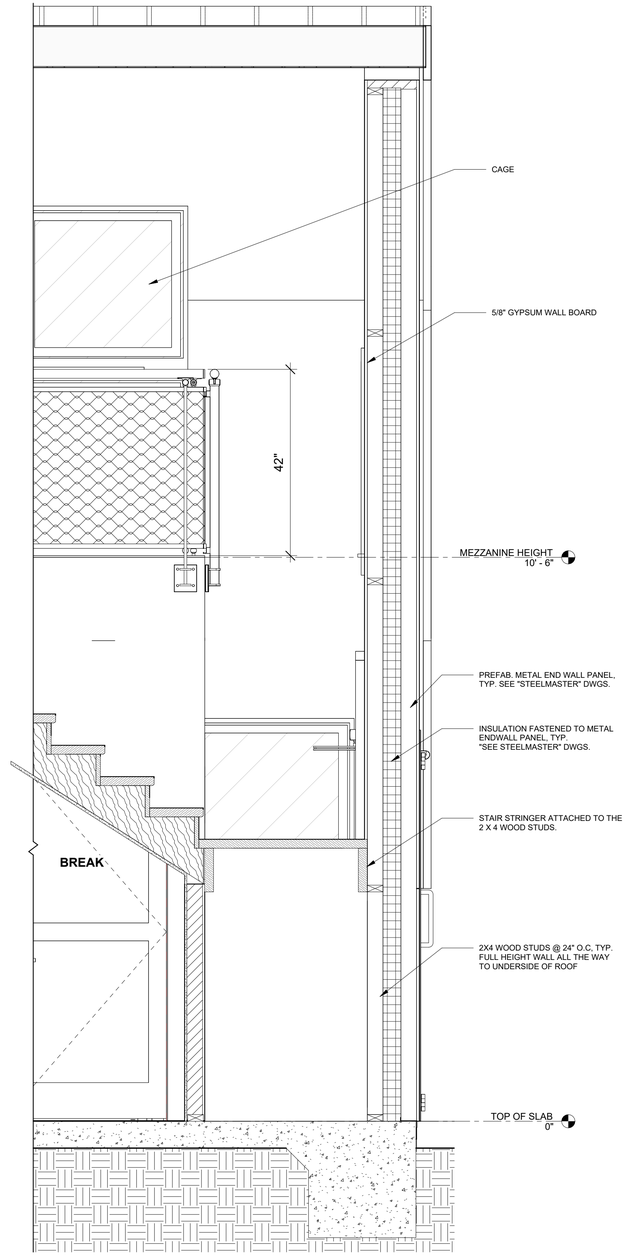
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12/15/2025 11:37:51 AM



1 WALL SECTION AT CHECK-IN/RECEPTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION AT CHECK-IN/RECEPTION/STAIR
SCALE: 3/4" = 1'-0"



3 WALL SECTION AT BREAK ROOM
SCALE: 3/4" = 1'-0"

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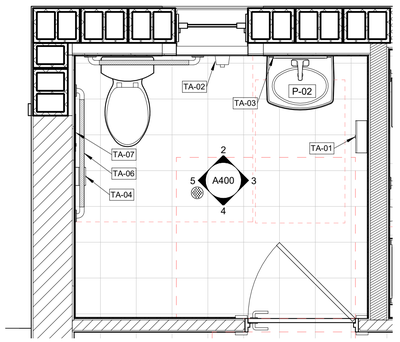
DIEGO DURAN, AIA
AR99267

WALL SECTIONS

A302

BID SET - NOT FOR CONSTRUCTION

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12/15/2025 11:37:53 AM



1 ENLARGED H/C RESTROOM PLAN
1/2" = 1'-0"

GENERAL NOTES

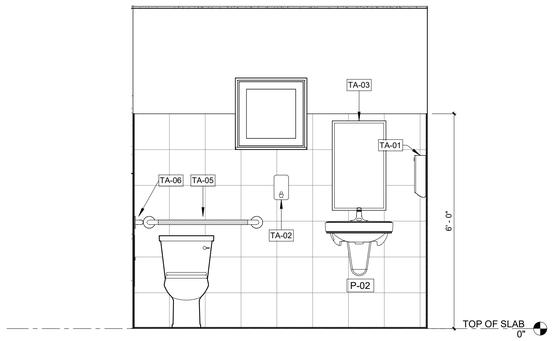
1. SEE ACCESSIBILITY NOTES AND DIAGRAMS FOR DIMENSIONS GOVERNING SIZE AND LOCATION OF FIXTURES, APPLIANCES, ACCESSORIES, DOORS, AND CASEWORK.
2. CONTRACTOR TO FURNISH AND INSTALL CONCEALED WOOD BLOCKING (WITHIN WALLS) AS REQUIRED TO FIRMLY SECURE WALL-MOUNTED EQUIPMENT AND/OR ACCESSORIES. ALL WOOD BLOCKING IN CONTACT WITH MASONRY IS TO BE PRESSURE TREATED.
3. TILE AND PAVER PATTERNS ARE SHOWN FOR GRAPHIC PURPOSES ONLY. TILE AND PAVER SPECIFICATIONS AND INSTALLATION PATTERN TO BE DETERMINED.

TOILET ACCESSORY SCHEDULE

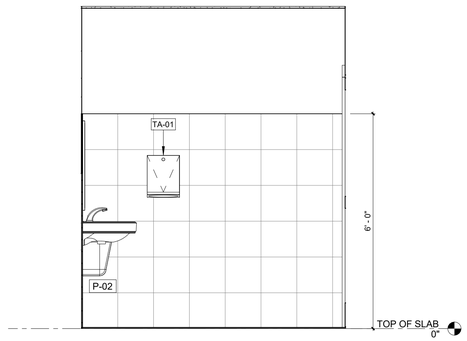
TAG	DESCRIPTION	COMMENTS	MANUFACTURER	MODEL
TA-01	SURFACE MTD PAPER TOWEL DISPENSER	WALL MOUNTED	BOBRICK	B-262
TA-02	SOAP DISPENSER	WALL MOUNTED	BOBRICK	B-2111
TA-03	MIRROR 18X30	WALL MOUNTED	BOBRICK	B-2908 1830
TA-04	TOILET TISSUE DISPENSER	DOUBLE ROLL VERTICAL	BOBRICK	B-2888
TA-05	36" GRAB BAR BEHIND TOILET	PROVIDE BLOCKING	BOBRICK	B-6806 X 36
TA-06	42" GRAB BAR @ SIDE OF TOILET	PROVIDE BLOCKING	BOBRICK	B-6806 X 42
TA-07	RECESSED SANITARY NAPKIN DISPOSAL	RECESSED	BOBRICK	B-353

PLUMBING FIXTURE SCHEDULE

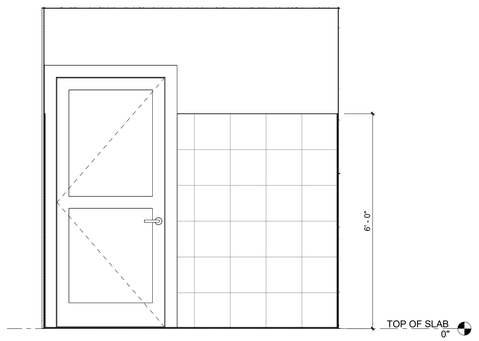
TAG	DESC	COMMENTS	MANUFACTURER
P-01	<varies>	<varies>	Kohler
P-02	K-2035-1 PINOIR WALL-MOUNT SINK WITH SHROUD AND SINGLE FAUCET HOLE W K-103A36-ACCLIV TOUCHESS SINGLE HOLE FAUCET	WHITE	Kohler
P-03	36" x 36" KOHLER SHOWER	WHITE	KOHLER Co.
P-04	30" X 21" DOUBLE SINK	STAINLESS STEEL	
P-05	SINGLE VOID SINK	STAINLESS STEEL	
P-06	FIAT MSB2424 MOP SINK	WHITE	Eagle Group
P-07	DOG GROOMING TUB	STAINLESS STEEL	
P-08	LAUNDRY & DRYER		



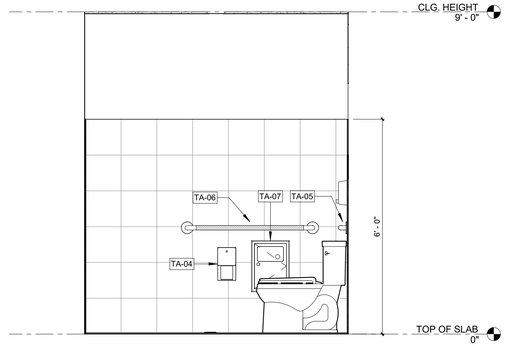
2 INTERIOR ELEVATION
1/2" = 1'-0"



3 INTERIOR ELEVATION
1/2" = 1'-0"



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



5 INTERIOR ELEVATION
1/2" = 1'-0"

BID SET - NOT FOR CONSTRUCTION

SHARP DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

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consultant logo

CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN
DEVELOPMENT

ISSUE DATE:
8-7-2025

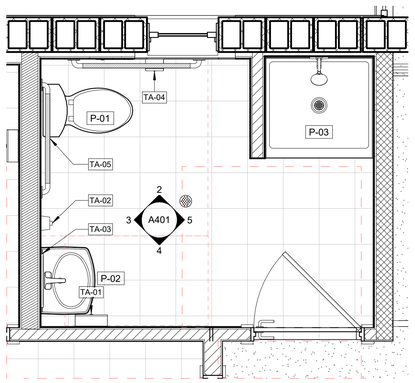
#	DESCRIPTION	DATE

DIEGO DURAN, AIA
AR99267

ENLARGED H/C

A400

K:\Clients\PETropolis\01 DWG\EXP\25-12-12 Revs. to Engs\8-15-2025_PEtropolis.rvt
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1 ENLARGED RESTROOM PLAN W/ C/C AND SHOWER
1/2" = 1'-0"

GENERAL NOTES

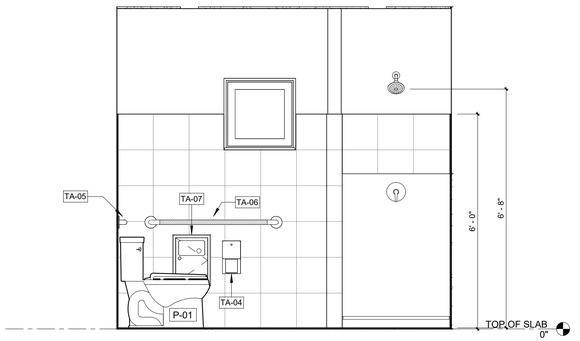
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TOILET ACCESSORY SCHEDULE

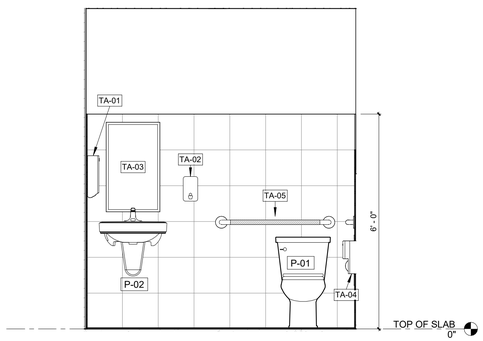
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TA-02	SOAP DISPENSER	WALL MOUNTED	BOBRICK	B-2111
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PLUMBING FIXTURE SCHEDULE

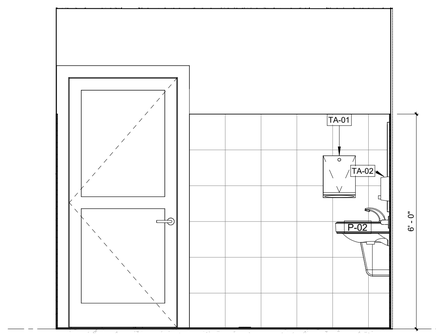
TAG	DESC	COMMENTS	MANUFACTURER
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P-02	K-2035-1 PINOIR WALL-MOUNT SINK WITH SHROUD AND SINGLE FAUCET HOLE W K-103A36-ACCLIV TOUCHESS SINGLE HOLE FAUCET	WHITE	Kohler
P-03	36" x 36" KOHLER SHOWER	WHITE	KOHLER Co.
P-04	30" X 21" DOUBLE SINK	STAINLESS STEEL	
P-05	SINGLE VOID SINK	STAINLESS STEEL	
P-06	FIAT MSB2424 MOP SINK	WHITE	Eagle Group
P-07	DOG GROOMING TUB	STAINLESS STEEL	
P-08	LAUNDRY & DRYER		



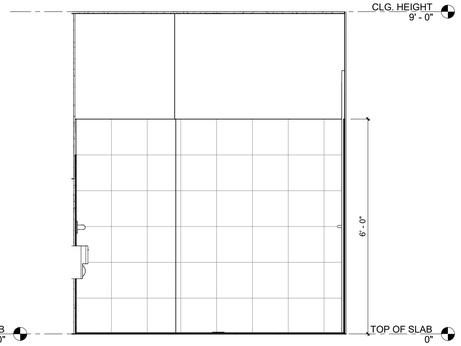
2 INTERIOR ELEVATION
1/2" = 1'-0"



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1/2" = 1'-0"



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1/2" = 1'-0"



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1/2" = 1'-0"

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12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

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consultant logo

CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN
DEVELOPMENT

ISSUE DATE:
8-7-2025

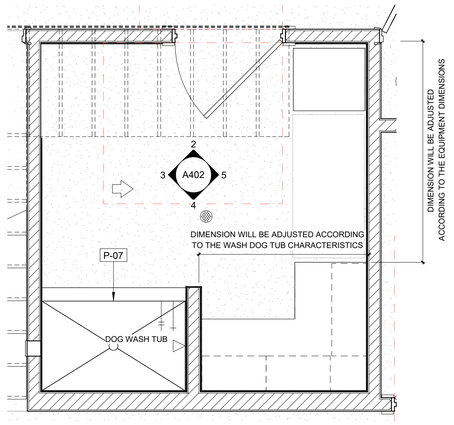
#	DESCRIPTION	DATE

DIEGO DURAN, AIA
AR99267

ENLARGED H/C W/ SHWR

A401

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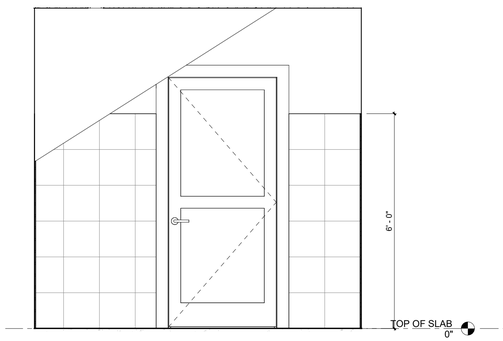
1 ENLARGED GROOM LOCAL PLAN
1/2" = 1'-0"

GENERAL NOTES

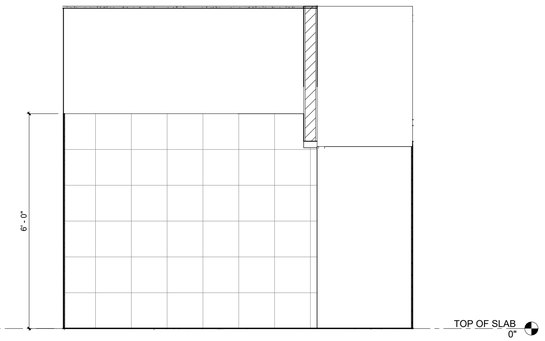
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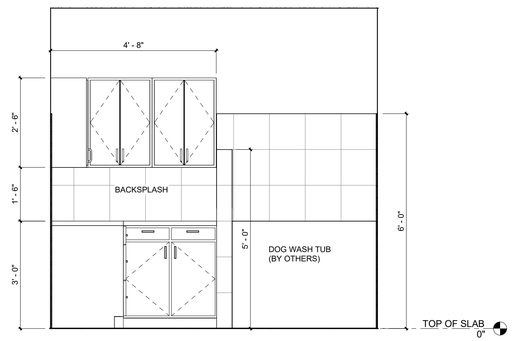
TAG	DESC	COMMENTS	MANUFACTURER
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P-08	LAUNDRY & DRYER		



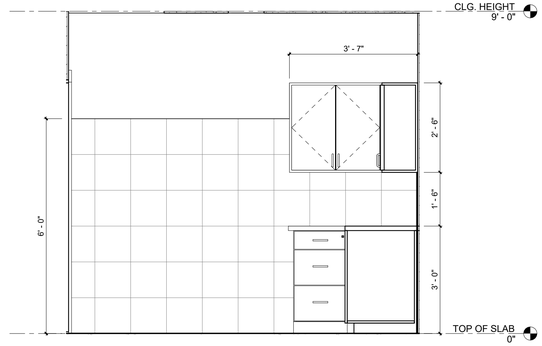
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consultant logo

CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN
DEVELOPMENT

ISSUE DATE:
8-7-2025

#	DESCRIPTION	DATE

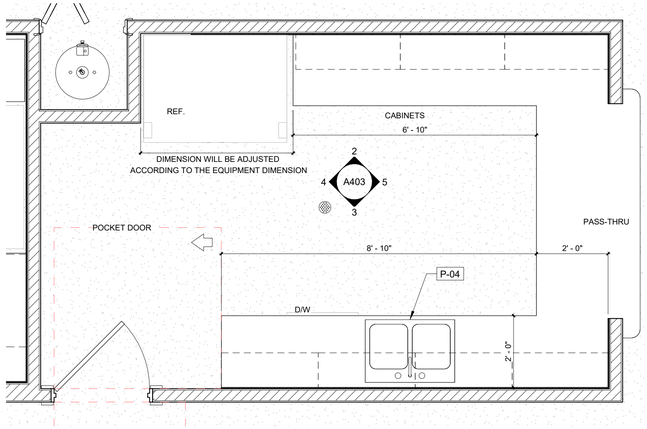
DIEGO DURAN, AIA
AR99267

ENLARGED
GROOM LOCAL

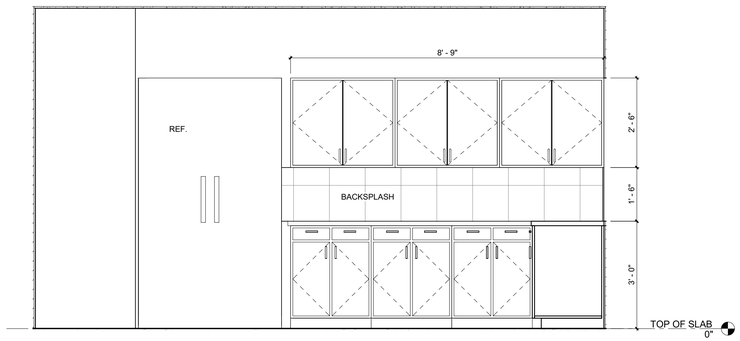
A402

BID SET - NOT FOR CONSTRUCTION

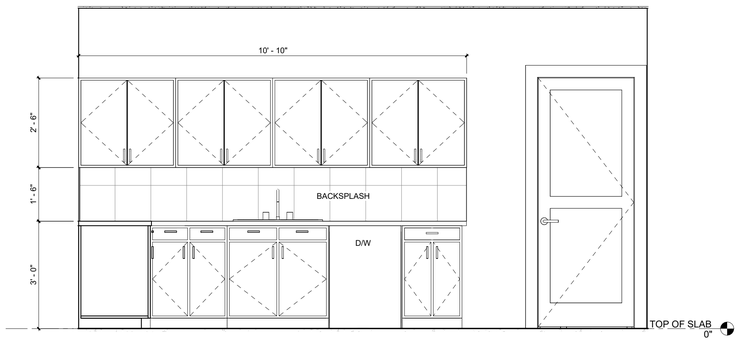
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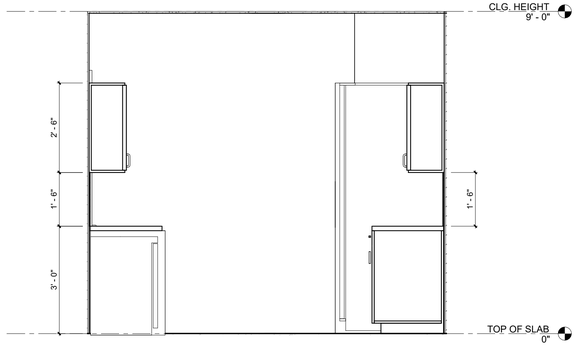
1 ENLARGED FOOD PREP. PLAN
1/2" = 1'-0"



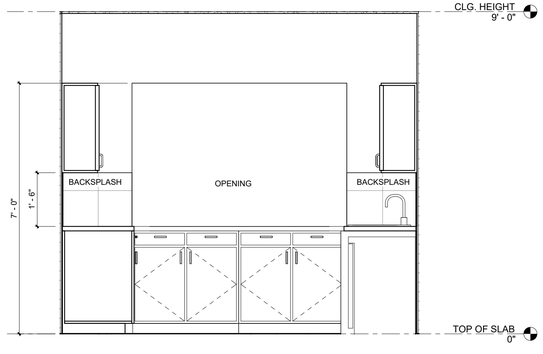
2 INTERIOR ELEVATION
1/2" = 1'-0"



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1/2" = 1'-0"



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1/2" = 1'-0"



5 INTERIOR ELEVATION
1/2" = 1'-0"

GENERAL NOTES

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PLUMBING FIXTURE SCHEDULE

TAG	DESC	COMMENTS	MANUFACTURER
P-01	<varies>	<varies>	Kohler
P-02	K-2035-1 PINOIR WALL-MOUNT SINK WITH SHROUD AND SINGLE FAUCET HOLE W K-103A36-ACCLIV TOUCHESS SINGLE HOLE FAUCET	WHITE	Kohler
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P-08	LAUNDRY & DRYER		

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consultant logo

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PHASE 1

PROJECT ADDRESS:
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4113200240040 &
4113200240050

DESIGN
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#	DESCRIPTION	DATE

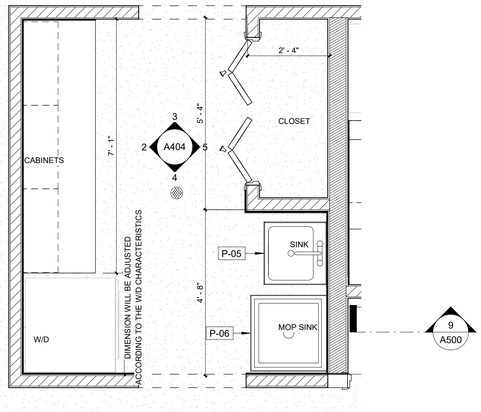
DIEGO DURAN, AIA
AR99267

ENLARGED FOOD PREP.

A403

BID SET - NOT FOR CONSTRUCTION

K:\Clients\PETropolis\01 DWG\EXP\25-12-12 Revs. to Engs\8-15-2025_PEtropolis.rvt
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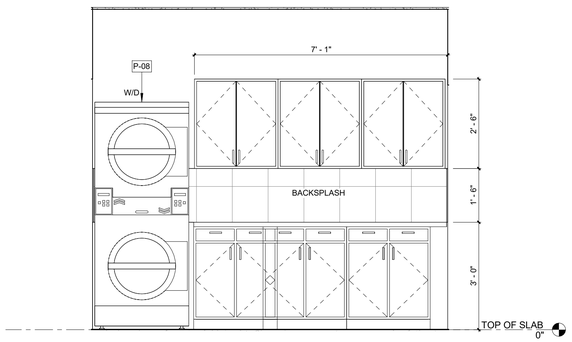
1 ENLARGED CLEAN/ UTILITY PLAN
1/2" = 1'-0"

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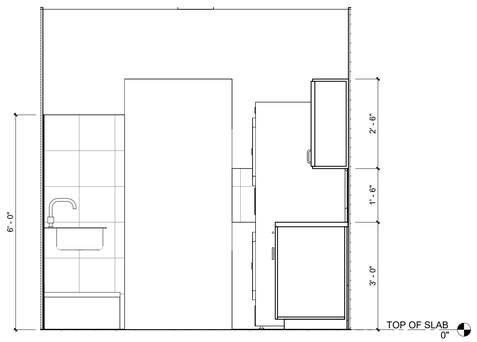
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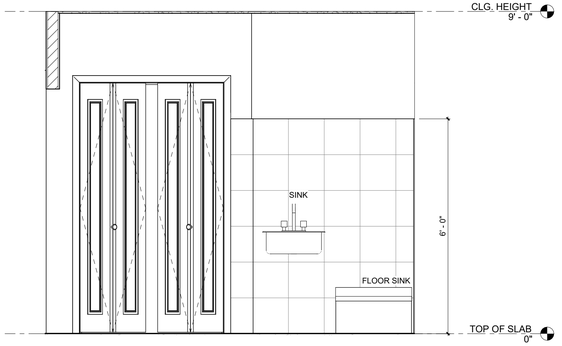
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AA26003627

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consultant logo

CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN
DEVELOPMENT

ISSUE DATE:
8-7-2025

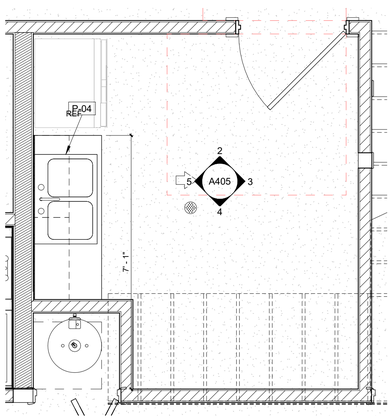
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DIEGO DURAN, AIA
AR99267

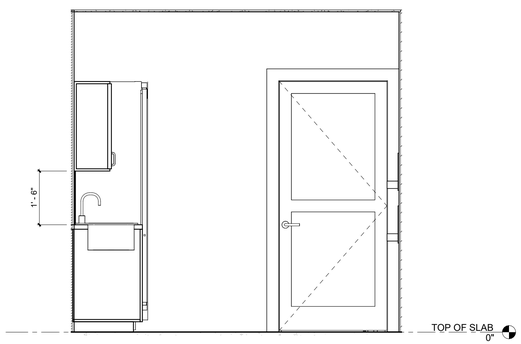
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A404

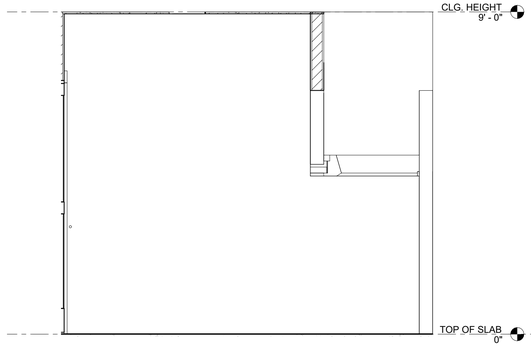
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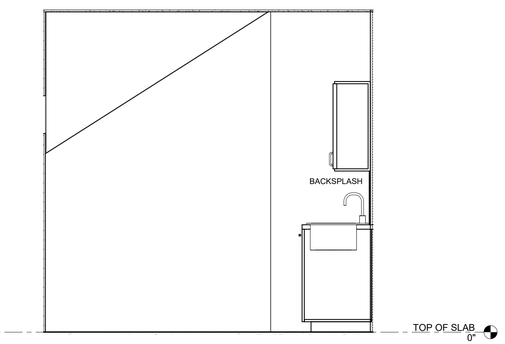
1 ENLARGED BREAK ROOM PLAN
1/2" = 1'-0"



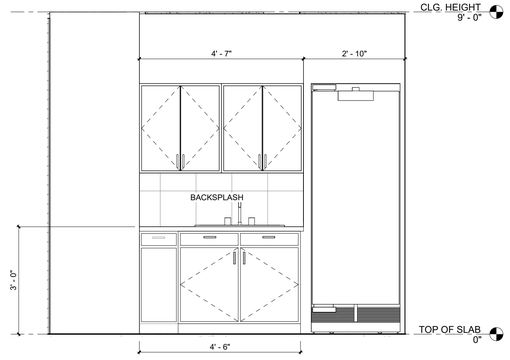
2 INTERIOR ELEVATION
1/2" = 1'-0"



3 INTERIOR ELEVATION
1/2" = 1'-0"



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



5 INTERIOR ELEVATION
1/2" = 1'-0"

GENERAL NOTES

1. SEE ACCESSIBILITY NOTES AND DIAGRAMS FOR DIMENSIONS GOVERNING SIZE AND LOCATION OF FIXTURES, APPLIANCES, ACCESSORIES, DOORS, AND CASEWORK.
2. CONTRACTOR TO FURNISH AND INSTALL CONCEALED WOOD BLOCKING (WITHIN WALLS) AS REQUIRED TO FIRMLY SECURE WALL-MOUNTED EQUIPMENT AND/OR ACCESSORIES. ALL WOOD BLOCKING IN CONTACT WITH MASONRY IS TO BE PRESSURE TREATED.
3. TILE AND PAVER PATTERNS ARE SHOWN FOR GRAPHIC PURPOSES ONLY. TILE AND PAVER SPECIFICATIONS AND INSTALLATION PATTERN TO BE DETERMINED.

PLUMBING FIXTURE SCHEDULE

TAG	DESC	COMMENTS	MANUFACTURER
P-01	<varies>	<varies>	Kohler
P-02	K-2035-1 PINOIR WALL-MOUNT SINK WITH SHROUD AND SINGLE FAUCET HOLE W K-103A36-ACCLIV TOUCHESS SINGLE HOLE FAUCET	WHITE	Kohler
P-03	36" x 36" KOHLER SHOWER	WHITE	KOHLER Co.
P-04	30" X 21" DOUBLE SINK	STAINLESS STEEL	
P-05	SINGLE VOID SINK	STAINLESS STEEL	
P-06	FIAT MSB2424 MOP SINK	WHITE	Eagle Group
P-07	DOG GROOMING TUB	STAINLESS STEEL	
P-08	LAUNDRY & DRYER		

BID SET - NOT FOR CONSTRUCTION

SHARP DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

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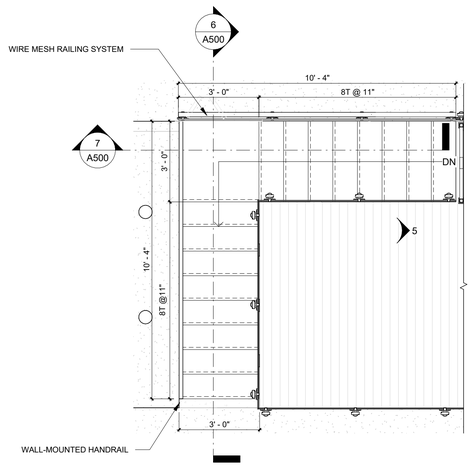
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AR99267

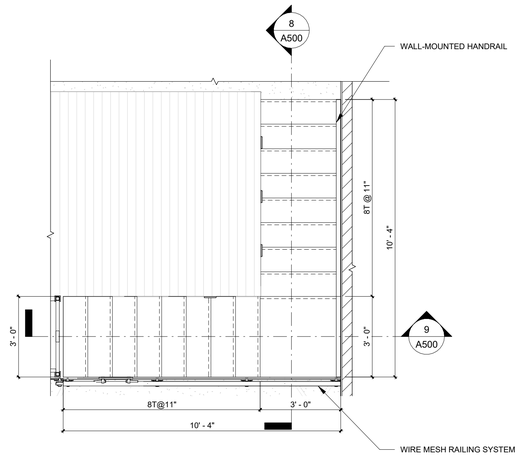
ENLARGED
BREAK ROOM

A405

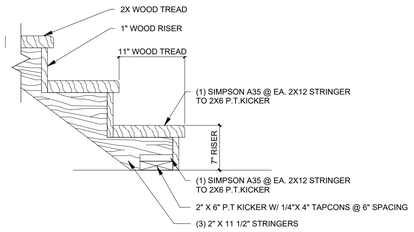
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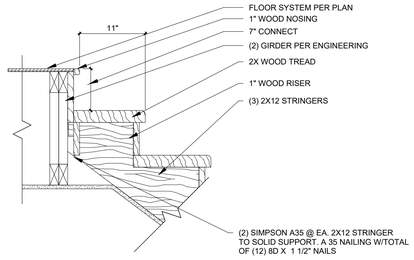
1 STAIR #1 AT MEZZANINE
3/8" = 1'-0"



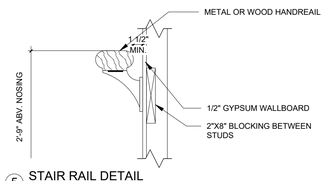
2 STAIR #2 PLAN AT MEZANINE
3/8" = 1'-0"



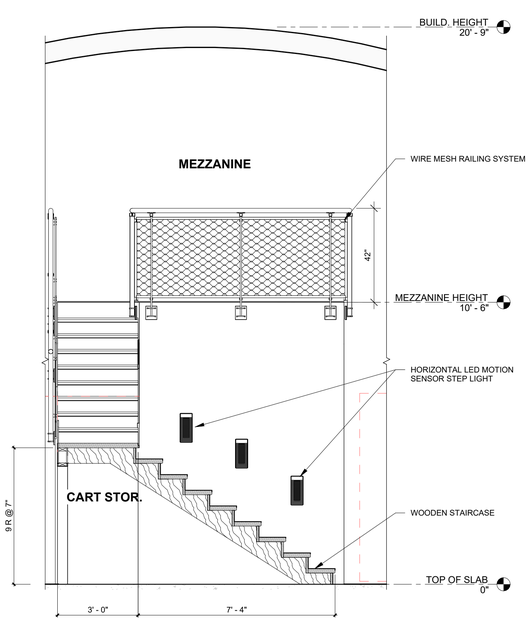
3 STAIR STEP DETAIL
1" = 1'-0"



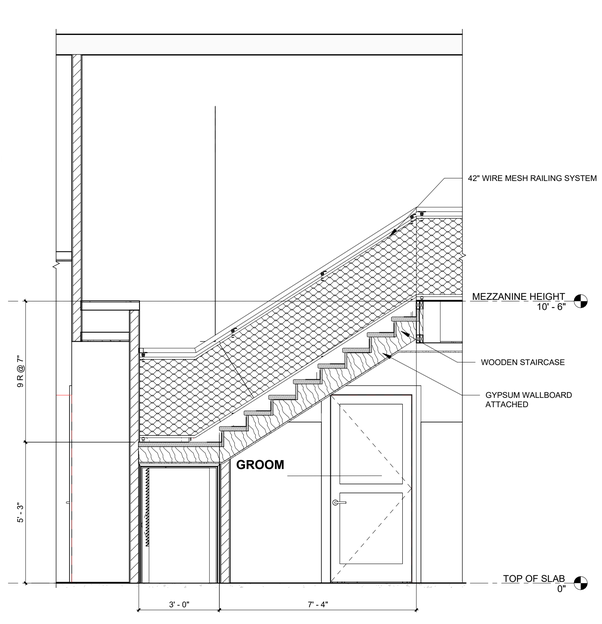
4 STAIR TO LANDING DETAIL
1" = 1'-0"



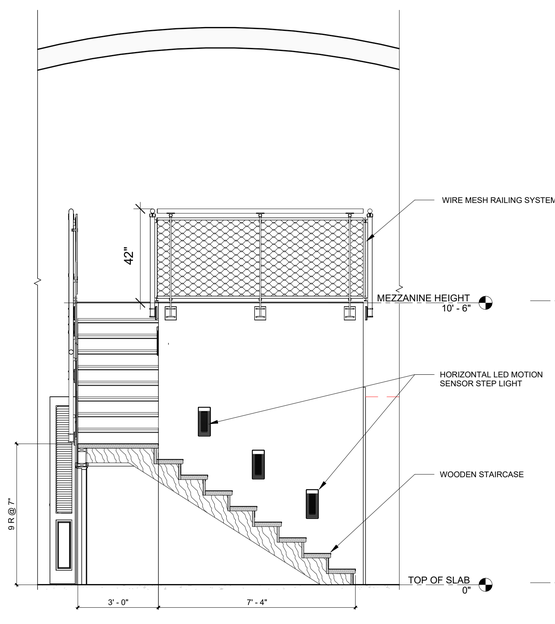
5 STAIR RAIL DETAIL
1" = 1'-0"



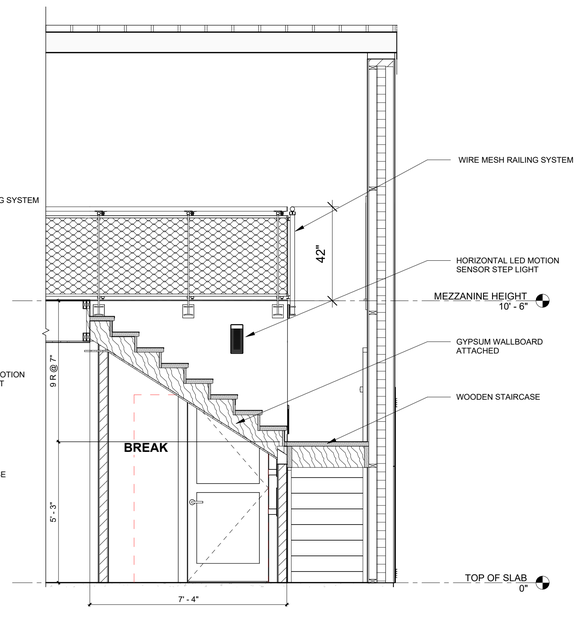
6 STAIR SECTION
3/8" = 1'-0"



7 STAIR SECTION
3/8" = 1'-0"



8 STAIR SECTION
3/8" = 1'-0"



9 STAIR SECTION
3/8" = 1'-0"

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TAMPA, FL 33626
OFFICE: (813)408-8404
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22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN DEVELOPMENT

ISSUE DATE:
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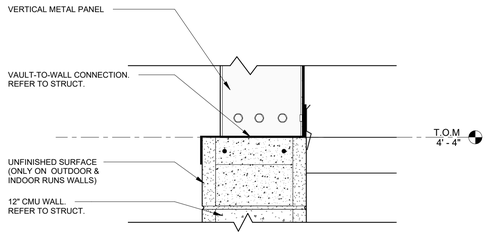
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AR99267

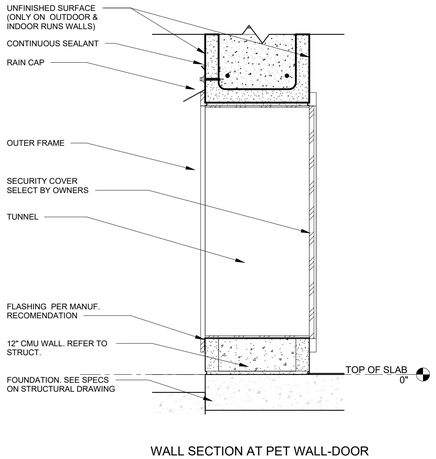
PLAN DETAILS

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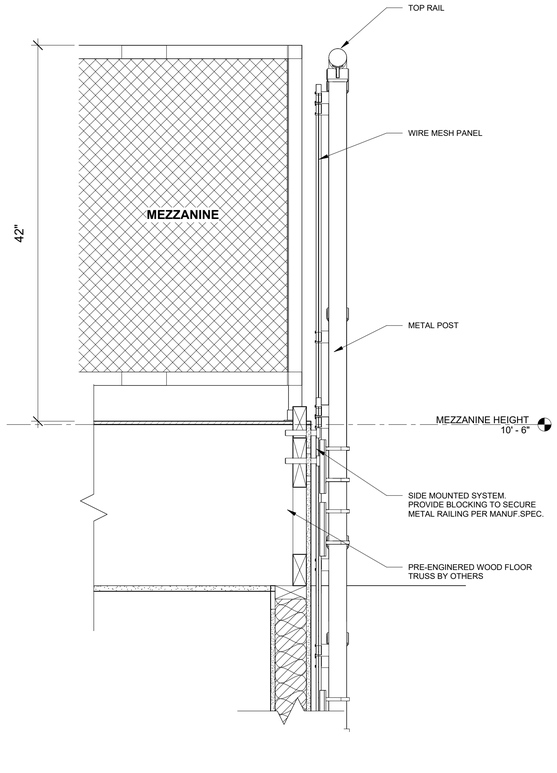
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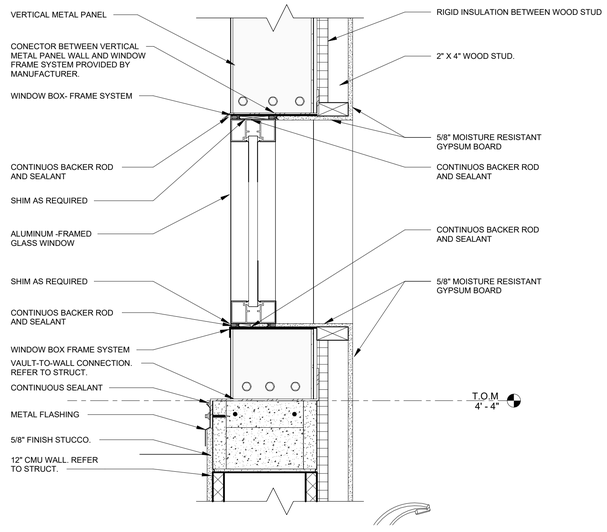
1 CMU WALL TO METAL VAULT CONNECTION
1 1/2" = 1'-0"



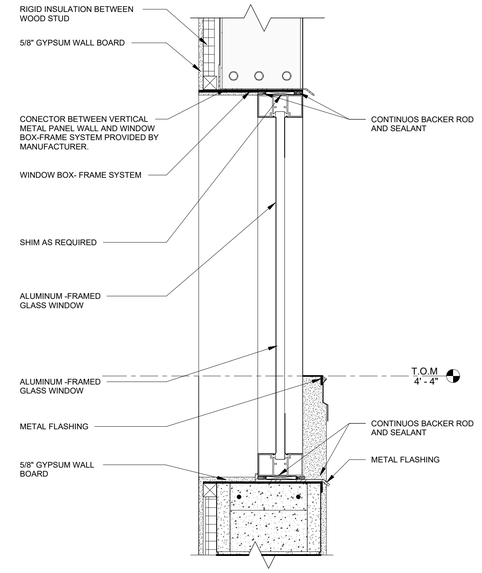
2 WALL SECTION AT PET WALL-DOOR ACCESS
1 1/2" = 1'-0"



3 RAILING DETAIL AT MEZZANINE
1 1/2" = 1'-0"



4 WALL SECTION AT H/C RESTROOM WINDOW
1 1/2" = 1'-0"



5 WALL SECTION AT OFFICE WINDOW
1 1/2" = 1'-0"

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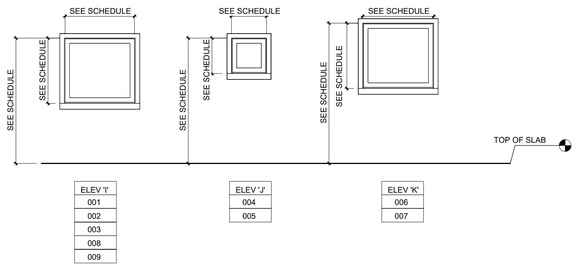
MISC. DETAILS

A501

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



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

GENERAL - DOOR SCHEDULE-2

TAG	TYPE	ROOM		DOOR			FRAME MATERIAL	ELEVATION	HARDWARE	NOTES
		FROM	TO	WIDTH	HEIGHT	MATERIAL				
001	DR_SINGLE SWING DOOR ENTRANCE	CHECK-IN AND RECEPTION	PARKING ACCESS	3' - 8"	7' - 0"	METAL & GLASS	METAL	ELEV 'A'	SET-1	
002	DR_SWING DOOR (GLASS LITE WINDOWS)	WALKWAY #2	PAVED WALKWAY	3' - 8"	7' - 0"	METAL & GLASS	METAL	ELEV 'B'	SET-1	
003	DR_SWING DOOR (GLASS LITE WINDOWS)	WALKWAY #2	PAVED WALKWAY	3' - 8"	7' - 0"	METAL & GLASS	METAL	ELEV 'B'	SET-1	
004	DR_SWING DOOR (GLASS LITE WINDOWS)	PAVED WALKWAY	WALKAWAY #1	3' - 8"	7' - 0"	METAL & GLASS	METAL	ELEV 'B'	SET-1	
005	DR_SWING DOOR (GLASS LITE WINDOWS)	WALKAWAY #1	PAVED WALKAWAY	3' - 8"	7' - 0"	METAL & GLASS	METAL	ELEV 'B'	SET-1	
006	DR_SINGLE SWING DOOR	CHECK-IN AND RECEPTION	H/C RESTROOM	3' - 0"	7' - 0"	WOOD	WOOD	ELEV 'C'	SET-4	
007	DR_SINGLE SWING DOOR	WALKWAY #2	H/C W/ SHWR	3' - 0"	7' - 0"	WOOD	WOOD	ELEV 'C'	SET-4	
008	DR_SINGLE SWING DOOR	CHECK-IN AND RECEPTION	OFFICE	3' - 0"	7' - 0"	WOOD	WOOD	ELEV 'C'	SET-2	
009	DR_SINGLE SWING DOOR	WALKAWAY #1	OFFICE /RESPITE	3' - 0"	7' - 0"	WOOD	WOOD	ELEV 'C'	SET-2	
010	DR_SINGLE SWING DOOR	WALKAWAY #1	FOOD PREP.	2' - 8"	7' - 0"	WOOD	WOOD	ELEV 'C'	SET-2	
011	DR_SINGLE SWING DOOR	WALKWAY #2	BREAK	3' - 0"	7' - 0"	WOOD	WOOD	ELEV 'C'	SET-2	
012	DR_SINGLE SWING DOOR W/ VISOR	WALKWAY #2	CHECK-IN AND RECEPTION	3' - 0"	7' - 0"	WOOD & GLASS	WOOD	ELEV 'D'	SET-3	
013	DR_SINGLE SWING DOOR W/ VISOR	WALKAWAY #1	CHECK-IN AND RECEPTION	3' - 0"	7' - 0"	WOOD & GLASS	WOOD	ELEV 'D'	SET-3	
014	DR_SINGLE SWING DOOR	WALKWAY #2	GROOM	3' - 0"	7' - 0"	WOOD	WOOD	ELEV 'C'	SET-2	
015	DR_BIFOLD DOOR (TWO PANEL)	W/H	WALKWAY #2	2' - 4"	7' - 0"	WOOD	WOOD	ELEV 'F'	SET-6	
016	DR_BIFOLD DOOR (TWO PANEL)	W/H	WALKAWAY #1	2' - 4"	7' - 0"	WOOD	WOOD	ELEV 'F'	SET-6	
017	DR_BIFOLD DOOR (FOUR PANEL)		CLEAN and UTILITY	4' - 0"	7' - 0"	WOOD	WOOD	ELEV 'G'	SET-6	
018	DR_PET WALL-DOOR	OUTDOOR RUNS # 2	INDOOR RUNS # 2	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
019	DR_PET WALL-DOOR	OUTDOOR RUNS # 2	INDOOR RUNS # 2	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
020	DR_PET WALL-DOOR	OUTDOOR RUNS # 2	INDOOR RUNS # 2	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
021	DR_PET WALL-DOOR	OUTDOOR RUNS # 2	INDOOR RUNS # 2	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
022	DR_PET WALL-DOOR	OUTDOOR RUNS # 2	INDOOR RUNS # 2	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
023	DR_PET WALL-DOOR	OUTDOOR RUNS #4	INDOOR RUNS #4	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
024	DR_PET WALL-DOOR	OUTDOOR RUNS #4	INDOOR RUNS #4	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
025	DR_PET WALL-DOOR	OUTDOOR RUNS #4	INDOOR RUNS #4	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
026	DR_PET WALL-DOOR	OUTDOOR RUNS #4	INDOOR RUNS #4	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
027	DR_PET WALL-DOOR	OUTDOOR RUNS #4	INDOOR RUNS #4	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
028	DR_PET WALL-DOOR	INDOOR RUNS #1	OUTDOOR RUNS #1	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
029	DR_PET WALL-DOOR	INDOOR RUNS #1	OUTDOOR RUNS #1	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
030	DR_PET WALL-DOOR	INDOOR RUNS #1	OUTDOOR RUNS #1	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
031	DR_PET WALL-DOOR	INDOOR RUNS #1	OUTDOOR RUNS #1	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
032	DR_PET WALL-DOOR	INDOOR RUNS #1	OUTDOOR RUNS #1	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
033	DR_PET WALL-DOOR	INDOOR RUNS#3	OUTDOOR RUNS #3	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
034	DR_PET WALL-DOOR	INDOOR RUNS#3	OUTDOOR RUNS #3	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
035	DR_PET WALL-DOOR	INDOOR RUNS#3	OUTDOOR RUNS #3	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
036	DR_PET WALL-DOOR	INDOOR RUNS#3	OUTDOOR RUNS #3	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
037	DR_PET WALL-DOOR	INDOOR RUNS#3	OUTDOOR RUNS #3	1' - 8"	2' - 1"	METAL & VINIL FLAPS	METAL	ELEV 'H'		XX LARGE
038	DR_BIFOLD DOOR (TWO PANEL).	CART STOR.	WALKWAY #2	2' - 10"	4' - 4"	WOOD		ELEV 'I'	SET-6	
039	DR_BIFOLD DOOR (TWO PANEL).	CART STOR.	WALKAWAY #1	2' - 10"	4' - 4"	WOOD	WOOD	ELEV 'I'	SET-6	

HARDWARE SCHEDULE

SET 1	EXTERIOR DOORS 3 HINGES - N.P.R. 1 DOOR PULL 1 PANIC HARDWARE (HANDICAP ACCESSIBLE) 1 LEVER ENTRANCE LOCK 1 CLOSER - PARALLEL ARM 1 ASTRAGAL - STEEL 1 WEATHERSTRIP 1 THRESHOLD - BARRIER FREE
SET 2	3 HINGES 1 OFFICE FUNCTION LOCK (HANDICAP ACCESSIBLE) 1 CLOSER
SET 3	3 HINGES 1 DOOR PULL / PUSH (HANDICAP ACESSIBLE) 1 CLOSER
SET 4	3 HINGES 1 PRIVACY LEVER LOCKSET (HANDICAP ACCESSIBLE) 1 CLOSER 1 STOP
SET 5	POCKET DOOR LATCH
SET 6	BIFOLD DOOR HARDWARE

WINDOW SCHEDULE

TAG	WINDOW WIDTH	WINDOW HEIGHT	MATERIAL	HEAD HEIGHT	NOTES	ELEVATION
001	4' - 0"	3' - 8"	ALUMINUM & GLASS	7' - 0"		ELEV 'I'
002	4' - 0"	3' - 8"	ALUMINUM & GLASS	7' - 0"		ELEV 'I'
003	4' - 0"	3' - 8"	ALUMINUM & GLASS	7' - 0"		ELEV 'I'
004	2' - 0"	2' - 0"	ALUMINUM & GLASS	7' - 0"	OPAQUE GLASS	ELEV 'J'
005	2' - 0"	2' - 0"	ALUMINUM & GLASS	7' - 0"	OPAQUE GLASS	ELEV 'J'
006	4' - 0"	3' - 8"	ALUMINUM & GLASS	3' - 8"		ELEV 'K'
007	4' - 0"	3' - 8"	ALUMINUM & GLASS	3' - 8"		ELEV 'K'
008	4' - 0"	3' - 8"	ALUMINUM & GLASS	7' - 0"		ELEV 'I'
009	4' - 0"	3' - 8"	ALUMINUM & GLASS	7' - 0"		ELEV 'I'

BID SET - NOT FOR CONSTRUCTION

SHARP DESIGN STUDIO
12100 RACE TRACK ROAD,UNIT Q1
TAMPA, FL 33626
OFFICE: (813)408-8404
AA26003627

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DRAWINGS ARE NOT TO BE SCALED. DRAWING SCALES AS INDICATED ARE FOR REFERENCE ONLY. WRITTEN DIMENSIONS SHALL GOVERN.

consultant logo

CLIENT

PROJECT NUMBER:
22-1433

PROJECT NAME:
PETROPOLIS
PHASE 1

PROJECT ADDRESS:
PARCEL #:
4113200240040 &
4113200240050

DESIGN DEVELOPMENT

ISSUE DATE:
8-7-2025

#	DESCRIPTION	DATE

DIEGO DURAN, AIA
AR99267

DOOR & WINDOW SCHEDULES

A700

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STRUCTURAL NOTES:

1. GENERAL AND CODES:

1.1. CODES:
- 1.1.1. STRUCTURAL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION, 2023, AS ADOPTED AND SUPPLEMENTED BY LOCAL REGULATIONS.
- 1.1.2. AMERICAN SOCIETY OF CIVIL ENGINEERS – MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7–22).
- 1.1.3. AMERICAN CONCRETE INSTITUTE – BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318–19).
- 1.1.4. THE MASONRY SOCIETY – SPECIFICATIONS AND REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402).
- 1.1.5. AMERICAN INSTITUTE OF STEEL CONSTRUCTION – STEEL CONSTRUCTION MANUAL (AISC–15TH ED).
- 1.1.6. DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES BY THE TRUSS PLATE INSTITUTE (TPI 2014).
- 1.1.7. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS 2018).

1.2. VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION.

1.3. DO NOT SCALE DRAWINGS.

1.4. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR MISCELLANEOUS STEEL ITEMS NOT SHOWN HERE.

1.5. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANCHORED, SUPPORTED, AND EMBEDDED ITEMS WHICH IMPACT THE STRUCTURAL WORK. VERIFY DETAILS AND DIMENSIONS WITH EQUIPMENT PURCHASED.

1.6. COORDINATE SIZES AND LOCATIONS OF OPENINGS IN FLOORS AND ROOF WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL REQUIREMENTS.

1.7. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE EOR.

1.8. ANY CHANGE IN CONSTRUCTION FROM THAT SHOWN IN THE SIGNED CONSTRUCTION DOCUMENTS, AND THE APPROVED SHOP DRAWINGS, SHALL BE MADE WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE EOR.

1.9. SUBMITTALS SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND SHALL BE CHECKED AND MARKED "APPROVED" BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE PROJECT EOR. NON–CONFORMING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.

1.10. SHOP DRAWINGS SHALL NOT BE REPRINTS OF CONTRACT DOCUMENTS.

1.11. THE STRUCTURE IS DESIGNED TO SELF–SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE–DOWNS.

1.12. DETAILS LABELED AS "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE PLANS CAN BE DETERMINED BY THE TITLE OF THE DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE EOR.

1.13. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH OF DRAWINGS AND NOTIFY THE AOR AND EOR OF THE DISCREPANCIES PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.

2. DESIGN CRITERIA:

2.1. LIVE LOAD
- 2.1.1. ROOF = 20PSF
- 2.1.2. FLOORS (DWELLINGS) = 40PSF
- 2.1.3. FLOORS (OFFICE) = 50PSF
- 2.1.4. CORRIDORS = 100PSF
- 2.1.5. STAIRS = 100PSF
- 2.1.6. STORAGE (LIGHT) = 125PSF
- 2.1.7. STORAGE (HEAVY) = 250PSF

2.2. DEAD LOAD (SUPERIMPOSED)
- 2.2.1. MEP = 5PSF
- 2.2.2. ROOF FRAMING = 15PSF
- 2.2.3. FLOOR FRAMING = 25PSF
- 2.2.4. CONTRACTOR SHALL VERIFY DEAD LOAD OF MATERIALS AND INFORM EOR OF WEIGHTS FOR HEAVIER MATERIALS, EX, GRAVEL ROOFS, PLASTER CEILINGS, HEAVY TIMBER CEILING FRAMING, ETC.

2.3. WIND LOAD: SEE WIND LOAD CHART FOR WIND CRITERIA AND DESIGN PRESSURES.

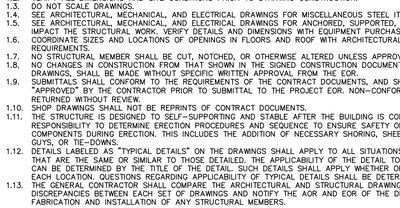
WIND DESIGN PRESSURES:

ULTIMATE WIND SPEED (Vult):	120MPH
NOMINAL (ASD) WIND SPEED (Vasd):	93MPH
RISK CATEGORY:	II
WIND EXPOSURE:	C
INTERNAL PRESSURE COEFFICIENTS:	+/– 0.18
MAX MEAN ROOF HEIGHT:	35FT
"a" (END ZONE DISTANCE):	8FT

COMPONENT AND CLADDING PRESSURES (ASD):

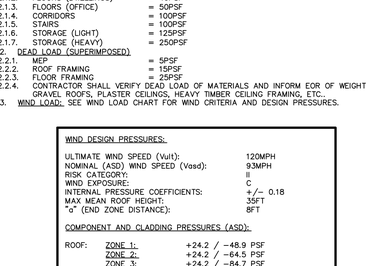
ROOF:	ZONE 1:	+24.2 / –48.9 PSF
	ZONE 2:	+24.2 / –64.5 PSF
	ZONE 3:	+24.2 / –84.7 PSF
WALL:	ZONE 4 (W1):	
	10SQFT:	+26.4 / –28.8 PSF
	20SQFT:	+25.3 / –27.6 PSF
	50SQFT:	+23.7 / –26.0 PSF
	100SQFT:	+22.5 / –24.8 PSF
	ZONE 5 (W2):	
	10SQFT:	+26.4 / –35.4 PSF
	20SQFT:	+25.3 / –33.1 PSF
	50SQFT:	+23.7 / –29.9 PSF
	100SQFT:	+22.5 / –27.6 PSF

NOTES:
- DESIGN PRESSURES SHOWN ABOVE ARE ALLOWABLE STRESS DESIGN (ASD). NO FURTHER REDUCTION ALLOWED.
- CHART MAY BE INTERPOLATED FOR INTERMEDIATE COMPONENT AREAS. OTHERWISE, ROUND COMPONENT AREA DOWN TO THE SMALLER AREA LISTED ABOVE.
- WINDBORNE DEBRIS REGIONS:
  - ** BUILDINGS LOCATED WITHIN THE BELOW REGIONS REQUIRE WIND DEBRIS IMPACT PROTECTION FOR ALL WINDOWS, DOORS, AND BUILDING ENVELOPE COMPONENTS:
  - ** Vult>130MPH AND WITHIN 1MILE OF COASTLINE OR AN EXPOSURE D CONDITION.
  - ** ALL AREAS WHERE Vult>140MPH,
  - ** AN EXPOSURE D CONDITION SHALL APPLY WHEN FLAT, UNOBSTRUCTED, OR WATER SURFACES (EX. OPEN OCEAN, BAYS, GULFS, LARGE LAKES, ETC) PREVAILS IN THE UPWIND DIRECTION FOR A DISTANCE OF AT LEAST 5,000FT OR 20 TIMES THE BUILDING HEIGHT, WHICHEVER IS GREATER.



ROOF PRESSURES DIAGRAM — SCALE: N.T.S — A

NOTE: ON FLAT / MONOSLOPE ROOFS, ZONE 3 EXTENDS IN FROM THE ROOF EDGE A DISTANCE OF 2a INSTEAD OF 1a.



COMPONENT AND CLADDING PRESSURE ZONES:
- WALL AND ROOF COMPONENTS SHALL BE DESIGNED TO RESIST THE WIND PRESSURES (SEE WIND PRESSURE CHART) FOR THE WIND ZONE THE COMPONENT IS LOCATED WITHIN.
- REFER TO THE ROOF SHEATHING DIAGRAM FOR LOCATION OF ROOF ZONES 1, 2, AND 3.

END ZONE DISTANCE (a):
- (a) IS THE SMALLER OF THE FOLLOWING:
  - ** 40% OF THE MEAN ROOF HEIGHT (H),
  - ** 10% OF THE LEAST HORIZONTAL DIMENSION (B),
  - ** BUT NOT LESS THAN:
  - *** 4% OF THE BUILDING SHORT DIMENSION (B),
  - *** OR 3FT,

WALL PRESSURE DIAGRAM — SCALE: N.T.S — B

3. SOIL:

3.1. THE FOUNDATION SYSTEM FOR THE ATTACHED PROJECT IS DESIGNED FOR A MINIMUM SOIL BEARING PRESSURE OF 2500PSF.

3.3. CONTRACTOR SHALL SUBMIT SIGNED GEOTECHNICAL REPORT TO EOR FOR REVIEW.

3.4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL CAPACITY AND COMPACTION MEET OR EXCEED THESE REQUIREMENTS AND THE SITE–SPECIFIC GEOTECHNICAL REPORT.

4. FOUNDATIONS:

4.1. PREPARE SITE AND COMPACT BEARING SOIL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT PREPARED SPECIFICALLY FOR THIS PROJECT AND LOCATION.

4.2. ENGINEER ASSUMES NO RESPONSIBILITY FOR SETTLEMENT OR OTHER FOUNDATION ISSUES DUE TO FAILURE OF OWNER OR CONTRACTOR TO PERFORM THE NECESSARY GEOTECHNICAL INVESTIGATION.

5. STEEL REINFORCEMENT:

5.1. SHOP DRAWING SUBMITTALS FOR REVIEW:
- 5.1.1. SHOP DRAWINGS SHALL INDICATE BAR SIZES, SPACING, LOCATIONS, AND QUANTITIES OF REINFORCING STEEL AND WELDED WIRE FABRIC.
- 5.1.2. SHOP DRAWINGS SHALL INCLUDE BENDING AND CUTTING SCHEDULES, AND SUPPORTING / SPACING COMPONENTS.
- 5.1.3. INCLUDE MANUFACTURER'S CERTIFICATE CERTIFYING PRODUCTS MEET OR EXCEED THE SPECIFIED REQUIREMENTS.

5.2. PERFORM WORK IN ACCORDANCE WITH CRSI 63 AND MANUAL OF PRACTICE, ACI 301, ACI SP–66, ACI 315, AND ACI 318. MAINTAIN ONE COPY OF EACH DOCUMENT ON SITE.

5.3. REINFORCEMENT:
- 5.3.1. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60, MARKED "S".
- 5.3.2. COLD–DRAWN WIRE STEEL SHALL CONFORM TO ASTM A82.
- 5.3.3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

5.4. ACCESSORIES:
- 5.4.1. TIE WIRE SHALL BE A MINIMUM OF 16GAGE ANNEALED WIRE.
- 5.4.2. CHAIRS, BAR SUPPORTS, AND SPACERS SHALL BE SIZED AND SHAPED FOR PROPER SUPPORT OF REINFORCEMENT DURING CONCRETE PLACEMENT AND WORKING CREWS.

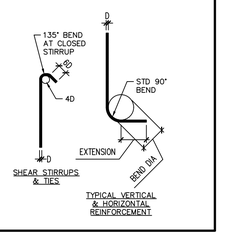
5.5. FABRICATION:
- 5.5.1. FABRICATE CONCRETE REINFORCING IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ASTM A184.
- 5.5.2. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF BARS,
- 5.5.3. PROVIDE CORNER BARS, MATCHING SIZE AND QUANTITY OF HORIZONTAL STEEL, AT ALL CHANGES IN DIRECTION OF WALL OR TIE–BEAM.
- 5.5.4. LOCATE REINFORCING SPLICES NOT INDICATED ON DRAWINGS, AT POINT OF MINIMUM STRESS. LAP SPLICE LOCATIONS SHALL BE DESIGNATED IN REINFORCEMENT SHOP DRAWINGS FOR REVIEW BY EOR.
- 5.5.5. LENGTH OF LAP SPLICES SHALL BE AS SHOWN IN TABLE, U.N.O.

REINFORCEMENT DETAILS AND LAP SPLICE LENGTHS

		LAP SPLICE LENGTHS			
		CIP CONCRETE 3000PSI		CIP CONCRETE 4000PSI	
T/B	SIZE	CLASS A	CLASS B	CLASS A	CLASS B
T<12"	#4	22"	29"	19"	25"
	#5	28"	36"	24"	32"
	#6	33"	43"	29"	38"
T>12"	#4	29"	38"	25"	33"
	#5	36"	47"	32"	41"
	#6	43"	56"	38"	49"

CMU MASONRY:	
#4 REBAR:	25"
#5 REBAR:	30"
#6 REBAR:	37"

STANDARD BENT BARS		
SIZE	BEND DIA. (6D)	EXTENSION (12D)
#3	2¼"	4½"
#4	3"	6"
#5	3¾"	7½"
#6	4½"	9"



NOTES:
- "T" IS DEPTH OF CONCRETE BELOW REINFORCEMENT.
- WHERE LAP SPLICES ARE REQUIRED IN CIP CONCRETE, SPLICES SHALL BE INSTALLED IN LOW STRESS AREAS AND STAGGERED SO NO MORE THAN 50% OF THE REINFORCEMENT IS SPLICED (CLASS A).
- ALL OTHER LAP SPLICES ARE CONSIDERED CLASS B.

5.6. PLACEMENT:
- 5.6.1. PLACE, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. DO NOT DEVIATE FROM REQUIRED REINFORCEMENT POSITION.
- 5.6.2. DO NOT DISPLACE OR DAMAGE VAPOR BARRIERS,
- 5.6.3. MAINTAIN CONCRETE COVER AS SHOWN ON CONSTRUCTION DOCUMENTS.
- 5.6.4. WHERE BAR REINFORCEMENT IS SHOWN AS CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORT AND TOP BARS AT CENTER OF SPAN.
- 5.6.5. WELDED WIRE FABRIC SHALL BE SUPPORTED ON CHAIRS AT MID–HEIGHT OF SLAB.
- 5.6.6. CONTRACTOR SHALL NOTIFY EOR OF MEP PENETRATIONS THROUGH STRUCTURAL SYSTEMS, FOR REVIEW AND APPROVAL.

6. CONCRETE:

6.1. SUBMITTALS FOR REVIEW:
- 6.1.1. SUBMIT DESIGN MIXES TO EOR FOR REVIEW AND APPROVAL. SUBMITTALS MUST INDICATE PROPOSED LOCATIONS OF EACH MIX TYPE TO BE USED.
- 6.1.2. MIX DESIGNS SHALL INCLUDE MANUFACTURER SPEC SHEETS FOR EACH MATERIAL/ADMIXTURE.

6.2. QUALITY ASSURANCE:
- 6.2.1. PERFORM WORK IN ACCORDANCE WITH ACI 301 AND ACI 318 STANDARDS.
- 6.2.2. MAINTAIN ONE COPY OF EACH DOCUMENT ON SITE.
- 6.2.3. ACQUIRE CEMENT AND AGGREGATE MATERIAL FROM SAME SOURCE FOR ALL WORK ON PROJECT.
- 6.2.4. CONFORM TO ACI 305R WHEN PERFORMING CONCRETE WORK DURING HOT WEATHER.
- 6.2.5. CONFORM TO ACI 306R WHEN PERFORMING CONCRETE WORK DURING COLD WEATHER.

6.3. CONCRETE MATERIALS:
- 6.3.1. CEMENT: ASTM C150, TYPE II–MODERATE
- 6.3.2. FINE AND COARSE AGGREGATES: ASTM C33
- 6.3.3. WATER SHALL BE CLEAN AND NOT DETRIMENTAL TO CONCRETE. WATER SHALL NOT BE ADDED TO CONCRETE ON SITE.

6.4. ADMIXTURES:
- 6.4.1. AIR ENTRAINMENT: ASTM C260
- 6.4.2. FLY ASH: ASTM C618 CLASS C
- 6.4.3. CHEMICALS: ASTM C494
  - 6.4.3.1. TYPE A: WATER REDUCING, TYPE B: RETARDING, TYPE C: ACCELERATING, TYPE D: WATER REDUCING AND RETARDING, TYPE E: WATER REDUCING AND ACCELERATING, TYPE F: HIGH–RANGE WATER REDUCER, TYPE G: HIGH–RANGE WATER REDUCER AND RETARDER.

6.5. ACCESSORIES:
- 6.5.1. BONDING AGENT: POLYMER RESIN EMULSION OR POLYVINYL ACETATE
- 6.5.2. VAPOR RETARDER: 10MIL THICK, CLEAR, POLYETHYLENE FILM RECOMMENDED FOR BELOW GRADE APPLICATION.
- 6.5.3. NON–SHRINK GROUT: PREMIXED GROUT CONSISTING OF AGGREGATE, CEMENT, WATER, AND ADMIXTURES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 2,400PSI AT 48HRS AND 7,000PSI AT 28DAYS. SUBMIT PRODUCT SPECS TO EOR FOR REVIEW.

6.6. CONCRETE MIX:
- 6.6.1. MIX CONCRETE IN ACCORDANCE WITH ACI 304
- 6.6.2. DELIVER CONCRETE IN ACCORDANCE WITH ASTM C94.
- 6.6.3. SELECT PROPORTIONS FOR NORMAL–WEIGHT CONCRETE IN ACCORDANCE WITH ACI 304 TO MEET THE FOLLOWING REQUIREMENTS:

28 DAY COMPRESSIVE STRENGTH	SLUMP	W/C RATIO	MAX AGGREGATE SIZE
FOUNDATIONS 3000PSI	3–5"	0.48	¾"
SLAB ON GRADE 3000PSI	4"	0.45	¾"
CMU GROUT 3000PSI	8"–11"	0.55	⅜"
CIP CONCRETE BEAMS 4000PSI	3–5"	0.48	¾"
CIP CONCRETE COLUMNS 4000PSI	3–5"	0.48	¾"

- 6.6.4. USE OF ACCELERATING ADMIXTURES IN COLD WEATHER SHALL BE APPROVED BY EOR PRIOR TO POUR.
- 6.6.5. USE OF CALCIUM CHLORIDE IS PROHIBITED.
- 6.6.6. USE OF SET RETARDING ADMIXTURES DURING HOT WEATHER SHALL BE APPROVED BY EOR PRIOR TO POUR.
- 6.6.7. ADD AIR ENTRAINING AGENT TO NORMAL–WEIGHT CONCRETE MIX FOR CONCRETE EXPOSED TO EXTERIOR.
- 6.6.8. FLY ASH CONTENT SHALL NOT EXCEED 20% OF CEMENTITIOUS MATERIAL BY WEIGHT.

6.7. VERIFY SITE CONDITIONS AND CONDITIONS OF FORMS PRIOR TO POUR.

6.8. VERIFY REQUIREMENTS FOR CONCRETE COVER OVER REINFORCEMENT PRIOR TO POUR.

6.9. CONCRETE COVER CONCRETE COVER OF REINFORCEMENT SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS:
- 6.9.1. CONCRETE CAST AGAINST EARTH (ALL BARS) = 3"
- 6.9.2. CONCRETE EXPOSED TO WEATHER:
  - 6.9.2.1. BEAMS/COLUMNS #5 AND SMALLER = 1½"
  - 6.9.2.2. BEAMS/COLUMNS #6 AND LARGER = 2"
- 6.9.3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
  - 6.9.3.1. SLABS AND WALLS #11 AND SMALLER: = ¾"
  - 6.9.3.2. BEAMS AND COLUMNS (ALL REINFORCEMENT) = 1½"

6.10. VERIFY THAT ANCHORS, SEATS, PLATES, REINFORCEMENT, AND ANY OTHER ITEMS TO BE CAST INTO CONCRETE ARE ACCURATELY PLACED, SECURELY TIED TO NOT MOVE DURING POUR, AND WILL NOT CAUSE DIFFICULTY PLACING CONCRETE.

6.11. PREPARATION:
- 6.11.1. PREPARE PREVIOUSLY PLACED CONCRETE BY CLEANING WITH STEEL BRUSH AND APPLYING BONDING AGENT TO THE SURFACES PER MANUFACTURER SPECIFICATIONS.
- 6.11.2. COORDINATE PLACEMENT OF CONTROL JOINTS WITH ERECTION OF CONCRETE FORMWORK AND ACCESSORIES.

6.12. PLACING CONCRETE:
- 6.12.1. PLACE CONCRETE IN ACCORDANCE WITH ACI 301 AND ACI 318
- 6.12.2. DO NOT OVER VIBRATE/CONSOLIDATE POURED CONCRETE.
- 6.12.3. INSTALL VAPOR BARRIER UNDER INTERIOR SLABS ON GRADE AND LAP JOINTS A MINIMUM OF 12" AND SEAL WATERTIGHT BY TAPING EDGES AND ENDS.
- 6.12.4. REPAIR DAMAGED VAPOR BARRIER PRIOR TO CONCRETE PLACEMENT BY INSTALLING NEW 10MIL VAPOR BARRIER OVER DAMAGED AREAS, EXTENDING 12" IN EACH DIRECTION. LAP AND TAPE EDGES.
- 6.12.5. MAINTAIN RECORDS OF CONCRETE PLACEMENT, INCLUDING, DATE, LOCATION, QUANTITY, AIR TEMPERATURE, AND TEST SAMPLES TAKEN.
- 6.12.6. PLACE CONCRETE CONTINUOUSLY BETWEEN SPECIFIED EXPANSION, CONTROL AND CONSTRUCTION JOINTS.
- 6.12.7. DO NOT INTERRUPT SUCCESSIVE PLACEMENT.
- 6.12.8. DO NOT ALLOW COLD JOINTS TO OCCUR.
- 6.12.9. FINISH SLABS ON GRADE LEVEL, MAINTAINING SURFACE FLATNESS OF ¼" PER 10FT. PROVIDE A FINAL FLOOR FINISH PER REQUIREMENTS UNDER FINISHING.

6.13. CONCRETE FINISHING:
- 6.13.1. AT FORMED CONCRETE SURFACES TO BE LEFT EXPOSED, CONCRETE SHALL BE SACK RUBBED FINISH.
- 6.13.2. FINISH CONCRETE FLOOR SURFACES IN ACCORDANCE WITH ACI 301.
- 6.13.3. FLOOR SURFACES TO RECEIVE CERAMIC TILE WITH FULL MORTAR BED SETTING SYSTEM SHALL BE WOOD FLOAT FINISHED.
- 6.13.4. FLOOR SURFACES TO RECEIVE CARPET, RESILIENT FLOORING, OR THIN SET CERAMIC TILE SHALL BE STEEL TROWEL FINISHED.
- 6.13.5. ALL EXPOSED SURFACES SHALL BE STEEL TROWEL FINISHED.
- 6.13.6. AT EXTERIOR EXPOSED SLABS PROVIDE A NON–SLIP BROOM FINISH. PLACE FINISH PERPENDICULAR TO TRAFFIC FLOW.
- 6.13.7. IN AREAS WITH FLOOR DRAINS, PITCH SLABS UNIFORMLY AS INDICATED. MAINTAIN SLAB ELEVATION AT WALLS.

6.14. CURING AND PROTECTION:
- 6.14.1. IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING, EXCESSIVE HOT OR COLD TEMPERATURES, AND MECHANICAL DAMAGE.
- 6.14.2. MAINTAIN CONCRETE WITH MINIMUM MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR PERIOD OF TIME NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.
- 6.14.3. CURE FLOOR SURFACES IN ACCORDANCE WITH ACI 308.
- 6.14.4. PONDING: MAINTAIN 100 PERCENT COVERAGE OF WATER OVER FLOOR SLAB AREAS CONTINUOUSLY FOR 4 DAYS MIN.
- 6.14.5. SPRAYING: MAINTAIN WATER OVER FLOOR SLAB AREAS AND MAINTAIN SLABS WET FOR 7 DAYS MIN.
- 6.14.6. MEMBRANE CURING COMPOUNDS: MEMBRANE CURING COMPOUNDS SHALL NOT BE USED ON LARGE SLAB SURFACES UNLESS SPECIFICALLY APPROVED BY MANUFACTURER. INSTALL CURING COMPOUND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. USE MEMBRANE CURING COMPOUNDS THAT WILL NOT AFFECT SURFACES TO BE COVERED WITH FINISH MATERIALS DIRECTLY APPLIED TO CONCRETE.
- 6.14.7. MOISTURE RETAINING COVER: COVER CONCRETE SURFACES WITH MOISTURE–RETAINING COVER FOR DURING CONCRETE, PLACED IN WIDEST DIRECTION WITH SIDES AND ENDS LAPPED AT LEAST 3" AND SEALED BY WATERPROOF TAPE. IMMEDIATELY REPAIR ANY DAMAGED SECTIONS DURING PLACEMENT.
- 6.14.8. CURING FORMED SURFACES: CURE FORMED SURFACES, SUCH AS BEAMS AND COLUMNS, BY MOIST CURING WITH FORMS IN PLACE FOR FULL CURING PERIOD OR UNTIL FORMS ARE REMOVED. IF FORMS ARE REMOVED PRIOR TO COMPLETE CURING, INSTALL MEMBRANE CURING COMPOUND, OR WATER SPRAY AND INSTALL MOISTURE–RETAINING COVER, FOR REMAINDER OF CURING PERIOD.

6.15. FIELD QUALITY CONTROL:
- 6.15.1. FIELD INSPECTION AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301.
- 6.15.2. PROVIDE FREE ACCESS TO WORK AND COOPERATE WITH APPOINTED TESTING AND INSPECTION FIRM.
- 6.15.3. TESTS OF CEMENT AND AGGREGATES MAY BE PERFORMED TO ENSURE COMPLIANCE WITH SPECIFIED REQUIREMENTS.
- 6.15.4. THREE CONCRETE TEST CYLINDERS SHALL BE TAKEN FOR EVERY 75 CUBIC YARDS (CYDs) (OR LESS) OF EACH CLASS OF CONCRETE POURED.
- 6.15.5. ONE ADDITIONAL TEST CYLINDER SHALL BE TAKEN DURING COLD WEATHER CONCRETING AND CURED ON JOB SITE UNDER SAME CONDITIONS AS CONCRETE IT MATCHES.
- 6.15.6. SLUMP TEST SHALL BE CONDUCTED FOR EACH SET OF TEST CYLINDERS TAKEN.

6.16. PATCHING:
- 6.16.1. ALLOW ENGINEER TO INSPECT CONCRETE SURFACES IMMEDIATELY UPON REMOVAL OF FORMS.
- 6.16.2. CONTRACTOR SHALL CONTACT EOR FOR REVIEW OF EXCESSIVE HONEYCOMBING OR EMBEDDED DEBRIS.
- 6.16.3. PATCH IMPERFECTIONS AS DIRECTED.

6.17. DEFECTIVE CONCRETE:
- 6.17.1. DEFECTIVE CONCRETE SHALL CONSIST OF ANY CONCRETE PLACED THAT IS NOT CONFORMING TO REQUIRED LINES, DETAILS, DIMENSIONS, TOLERANCES, OR SPECIFIED REQUIREMENTS / MATERIALS.
- 6.17.2. REPAIR / REPLACEMENT OF DEFECTIVE CONCRETE WILL BE DETERMINED BY EOR.
- 6.17.3. DO NOT PATCH, FILL, REPAIR, OR REPLACE, EXPOSED CONCRETE EXCEPT UPON EXPRESS DIRECTION OF THE EOR FOR EACH INDIVIDUAL AREA.
- 6.17.4. THE CONTRACTOR, AT HIS OPTION, MAY SUBSTITUTE SYNTHETIC FIBER REINFORCEMENT FOR WELDED WIRE REINFORCEMENT IN SLAB ON GRADES ONLY. THE SYNTHETIC FIBER REINFORCEMENT SHALL BE ADDED TO THE CONCRETE MIX AT A MINIMUM RATE OF 1.5LBS OF FIBER PER CUBIC YARD OF CONCRETE, OR AS SPECIFIED BY FIBER MANUFACTURER TO CONTROL TEMPERATURE AND SHRINKAGE CRACKING IN SLAB ON GRADE, WHICHEVER IS GREATER. THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR CRACKING OF SLABS UTILIZING SYNTHETIC FIBERS IN LIEU OF WELDED WIRE FABRIC.

7. MASONRY GROUT:

7.1. SUBMITTALS FOR REVIEW:
- 7.1.1. SUBMIT DESIGN MIXES TO EOR FOR REVIEW AND APPROVAL. SUBMITTALS MUST INDICATE PROPOSED LOCATIONS OF EACH MIX TYPE TO BE USED.
- 7.1.2. SUBMIT REPORTS ON MORTAR INDICATING CONFORMANCE WITH ASTM C270 AND TEST AND EVALUATION REPORTS TO ASTM C780.
- 7.1.3. SUBMIT MANUFACTURER'S CERTIFICATE CERTIFYING THAT PRODUCTS AND ADMIXTURES MEET OR EXCEED SPECIFIED REQUIREMENTS.
- 7.1.4. SUBMIT PREMIX MORTAR MANUFACTURER'S INSTALLATION INSTRUCTIONS.

7.2. PERFORM WORK IN ACCORDANCE WITH ACI 530.1/ASCE6/TMS 602

7.3. DELIVER, STORE, AND PROTECT PRODUCTS ON SITE. MAINTAIN PACKAGED MATERIALS CLEAN, DRY, AND PROTECTED AGAINST DAMPNESS, FREEZING, AND DEBRIS.

7.4. DURING COLD WEATHER (40°F OR LESS) REFER TO 530.1/ASCE6/TMS 602 REQUIREMENTS.

7.5. DURING HOT WEATHER (100°F OR MORE) REFER TO 530.1/ASCE6/TMS 602 REQUIREMENTS.

7.6. MATERIALS:
- 7.6.1. PREMIX MORTAR: ASTM C387 TYPE S MORTAR,
- 7.6.2. MORTAR AGGREGATE: ASTM C144, STANDARD MASONRY
- 7.6.3. HYDRATED LIME: ASTM C207, TYPE S OR M
- 7.6.4. WATER: CLEAN AND POTABLE
- 7.6.5. BONDING AGENTS: EPOXY TYPE

7.7. MORTAR SHALL BE ASTM C270, TYPE S

7.8. THOROUGHLY MIX MORTAR INGREDIENTS IN ACCORDANCE WITH ASTM C270 IN QUANTITIES NEEDED FOR IMMEDIATE USE.

7.9. GROUT MIXING:
- 7.9.1. MIX GROUT IN ACCORDANCE WITH ASTM C94.
- 7.9.2. ADD ADMIXTURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 7.9.3. DO NOT USE ANTI–FREEZE COMPOUNDS TO LOWER FREEZING POINT OF GROUT.

7.10. TEST MORTAR MIX IN ACCORDANCE WITH ASTM C780 FOR COMPRESSIVE STRENGTH, CONSISTENCY, MORTAR AGGREGATE RATIO, WATER CONTENT, AIR CONTENT, AND SPLITTING TENSILE STRENGTH.

8. CMU MASONRY:

8.1. MASONRY CONSTRUCTION AND MATERIALS SHALL COMPLY TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES (ACI 530.1/ASCE6/TMS 602)" BY THE MASONRY SOCIETY, THE AMERICAN CONCRETE INSTITUTE, AND THE AMERICAN SOCIETY OF CIVIL ENGINEERS.

8.2. SUBMITTALS:
- 8.2.1. SHOP DRAWINGS SHALL BE SUBMITTED TO EOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION, AND INCLUDE THE FOLLOWING: BAR SIZES, SPACING, LOCATIONS, REINFORCEMENT QUANTITIES, BENDING SCHEDULES, CUTTING SCHEDULES, LAP SPLICES DENOTED, SUPPORTING DEVICES FOR REINFORCEMENT, AND CMU ACCESSORIES.
- 8.2.2. PROVIDE PRODUCT DATA FOR MASONRY UNITS, MORTAR, WIRE REINFORCEMENT, AND ADMIXTURES.
- 8.2.3. INDICATE REQUIRED LOCATION OF MASONRY UNIT ASSEMBLY STRENGTH IN ALL PLANS.
- 8.2.4. PROVIDE MANUFACTURER'S CERTIFICATE CERTIFYING ALL SUPPLIED PRODUCTS MEET OR EXCEED THE SPECIFIED REQUIREMENTS.

8.3. QUALITY ASSURANCE:
- 8.3.1. MANUFACTURER SHALL BE SPECIALIZED IN MANUFACTURING THE PRODUCTS SPECIFIED, AND HAVE A MINIMUM OF THREE YEARS DOCUMENTED EXPERIENCE.

8.4. CONFORM TO APPLICABLE UL ASSEMBLY REQUIREMENTS FOR FIRE–RATED MASONRY CONSTRUCTION.

8.5. DELIVER, STORE, AND PROTECT PRODUCTS ON SITE. MAINTAIN MATERIALS CLEAN, DRY, AND PROTECTED AGAINST DAMPNESS, FREEZING, AND DEBRIS.

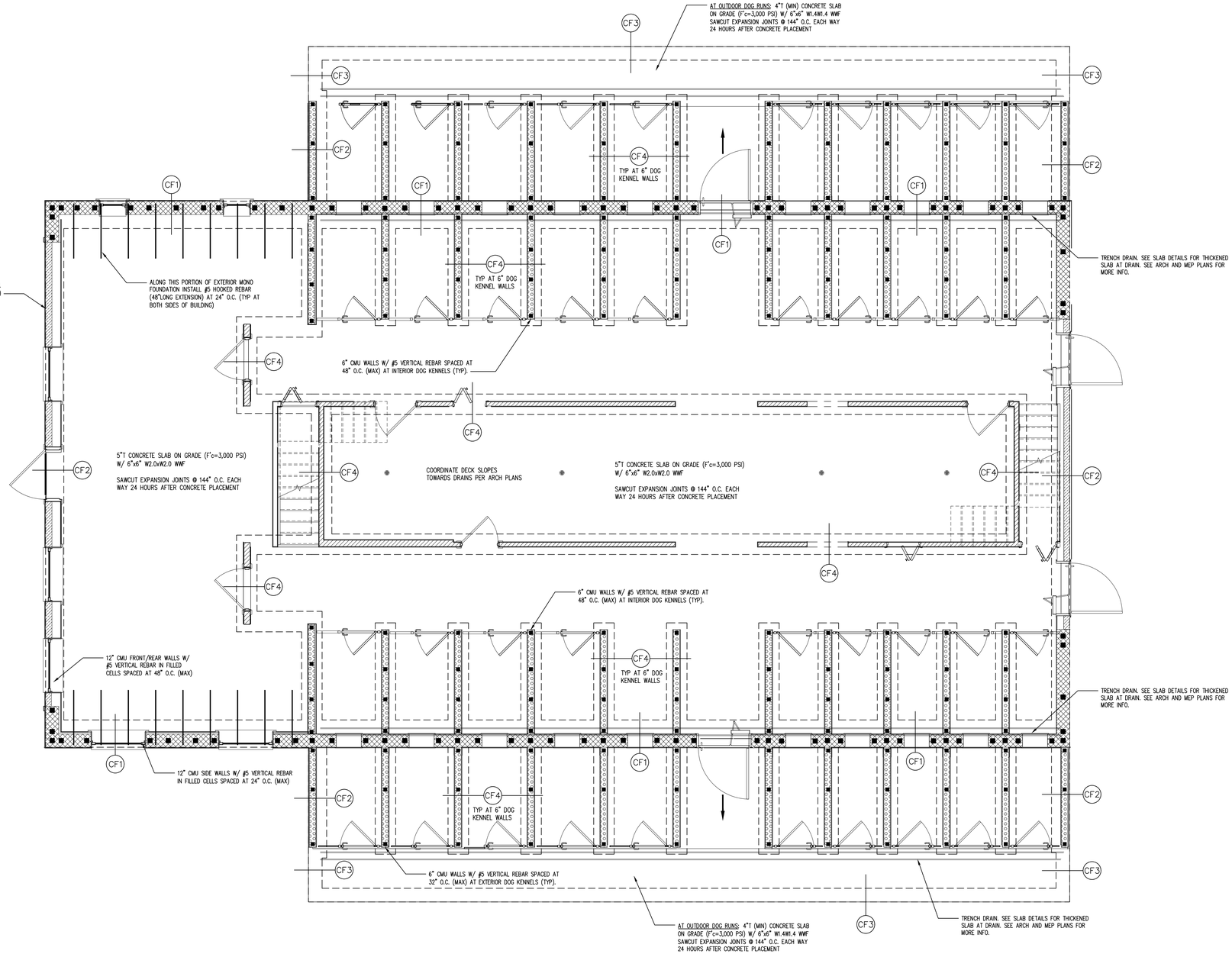
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8.7. DURING HOT WEATHER (100°F OR MORE) REFER TO 530.1/ASCE6/TMS 602 REQUIREMENTS.

8.8. COORDINATE ALL MASONRY WORK WITH INSTALLATION OF COMPONENT ANCHORAGE AND EMBEDDED ITEMS.

8.9. CONCRETE MASONRY UNITS:
- 8.9.1. HOLLOW CMU BLOCK UNITS SHALL MEET THE REQUIREMENTS OF ASTM C90 FOR NORMAL WEIGHT, NET COMPRESSIVE STRENGTH OF MASONRY = 2,000PSI CMU UNITS.
- 8.9.2. NOMINAL SIZE OF 8"x8"x16" BLOCKS, UNLESS NOTED OTHERWISE ON PLANS. PROVIDE SPECIAL UNITS FOR PILASTERS, CORNERS, KNOCKOUT BOND BEAMS, AND PRECAST LINTELS.

8.10. REINFORCEMENT:
- 8.10.1. REINFORCEMENT STEEL SHALL BE ASTM 615, GRADE 60KSI REBAR,
- 8.10.2. HORIZONTAL JOINT REINFORCEMENT SHALL BE DUR–O–WAL



FOUNDATION PLAN

SCALE: N.T.S

A

PRE-ENGINEERED METAL BUILDING FOUNDATION NOTES:

- FOUNDATION PAD DESIGN BASED ON A SOIL BEARING PRESSURE OF 2,000PSF.
- ALL REQUIRED SITE AND SUBGRADE PREP SHALL BE INSTALLED AS PER THE GEOTECHNICAL REPORT# 23-5519, SUBMITTED BY ALPHA GEOTECHNICAL AND TESTING SERVICES, INC., DATED SEPTEMBER 30, 2023.
- CONTRACTOR SHALL SUBMIT GEOTECHNICAL REPORT TO EOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- FOUNDATION PAD DESIGN BASED ON PEMB PRELIMINARY REACTIONS LISTED IN PEMB SHOP DRAWINGS, STEELMASTER BUILDINGS JOB # 81-69194, DATED 5/12/2025.
- CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP PEMB SHOP DRAWINGS AND CALCULATIONS TO AOR AND EOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- EOR RESERVES THE RIGHT TO ADJUST PAD SIZES AND REINFORCEMENT DURING REVIEW OF FINAL PEMB SHOP DRAWINGS AND REACTIONS.

FOUNDATION SCHEDULE

CF1	24"W x 26"D CONCRETE MONOLITHIC FOUNDATION W/ (4) #5 REBAR CONTINUOUS. EXTERIOR FOUNDATION POURED W/ CONCRETE SLAB ON GRADE. SEE STANDARD DETAILS FOR MORE INFORMATION.
CF2	18"W x 26"D CONCRETE MONOLITHIC FOUNDATION W/ (3) #5 REBAR CONTINUOUS. EXTERIOR FOUNDATION POURED W/ CONCRETE SLAB ON GRADE. SEE STANDARD DETAILS FOR MORE INFORMATION
CF3	12"W x 8"D CONCRETE MONOLITHIC THICKENED EDGE FOUNDATION W/ (1) #5 REBAR CONTINUOUS. EXTERIOR FOUNDATION POURED W/ CONCRETE SLAB ON GRADE. SEE STANDARD DETAILS FOR MORE INFORMATION.
CF4	18"W x 18"D CONCRETE MONOLITHIC FOUNDATION W/ (2) #5 REBAR CONTINUOUS. INTERIOR FOUNDATION POURED W/ CONCRETE SLAB ON GRADE. SEE STANDARD DETAILS FOR MORE INFORMATION.

SLAB LEGEND

- DENOTES (1) #5 VERTICAL REBAR IN CMU FILLED CELL, FILLED SOLID FROM FOUNDATION TO TIEBEAM.
- DENOTES (2) #5 VERTICAL REBAR IN CMU FILLED CELL, FILLED SOLID FROM FOUNDATION TO TIEBEAM
- DENOTES (1) #5 VERTICAL REBAR IN CMU FILLED CELL, FILLED SOLID FROM FOUNDATION TO SLAB ON GRADE. BEND REBAR 25" INTO SLAB ON GRADE.
- DENOTES STEPDOWN IN SLAB ON GRADE. REFER TO ARCHITECTURAL PLANS FOR STEPDOWN HEIGHT.
- DENOTES SLAB SLOPE DIRECTION. REFER TO ARCHITECTURAL PLANS FOR SLOPE.

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FEIGEL ENGINEERING
Florida Engineering Business #37382
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Phone: (727) 542-3850
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Website: www.Feigel-Engineering.com

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Ryan Feigel, PE., FL Reg# 88593

REV	DATE	

PETROPOLIS KENNEL

TALLAHASSEE, FL

90% REVIEW SET - 12/22/2025

F.E.# 20250145

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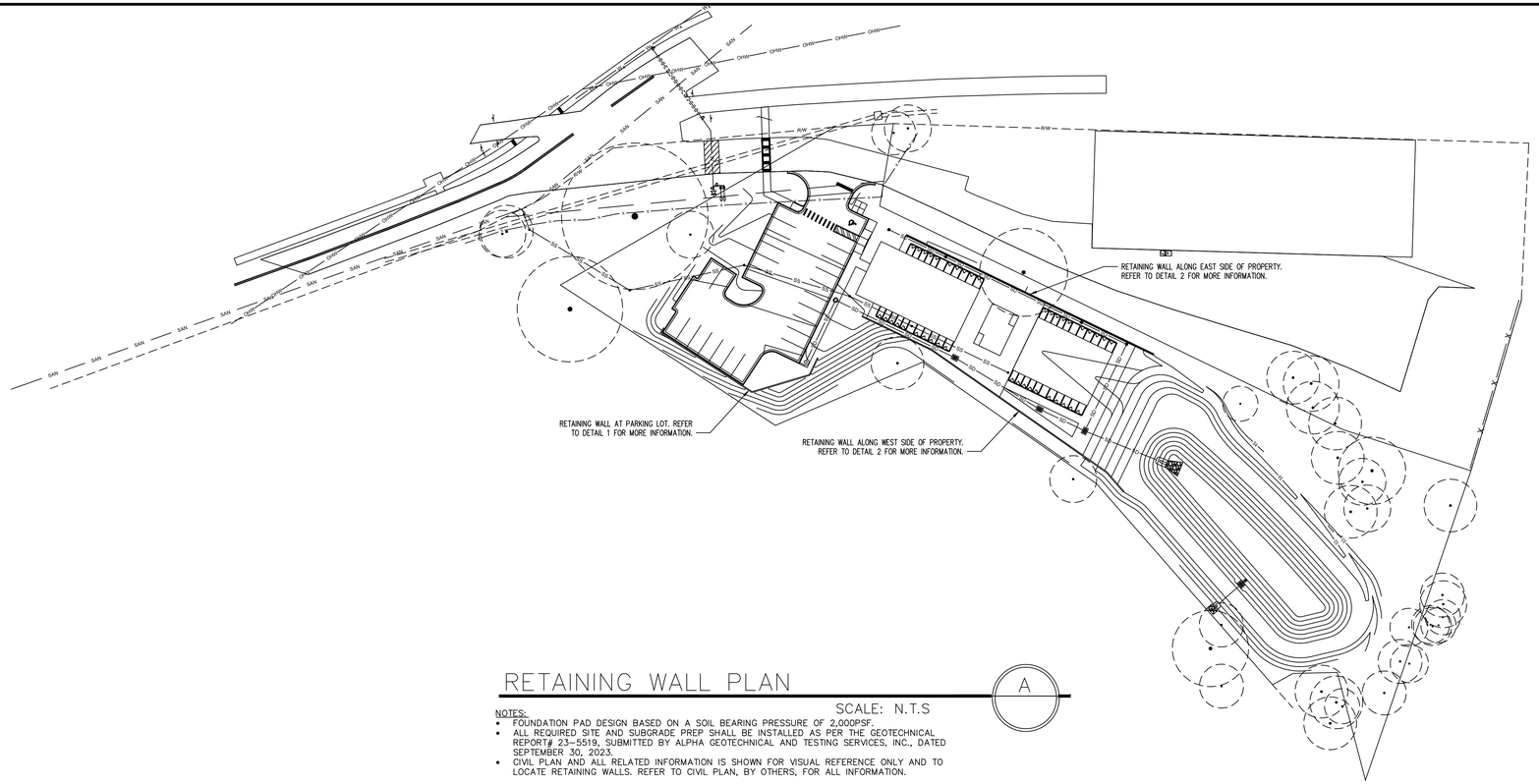
SCALE: NTS

S200

SHEET #

SIGN & SEAL

Ryan Feigel, PE., FL Reg# 88593

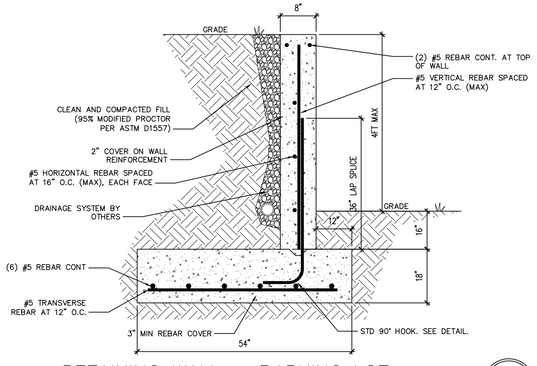


RETAINING WALL PLAN

SCALE: N.T.S

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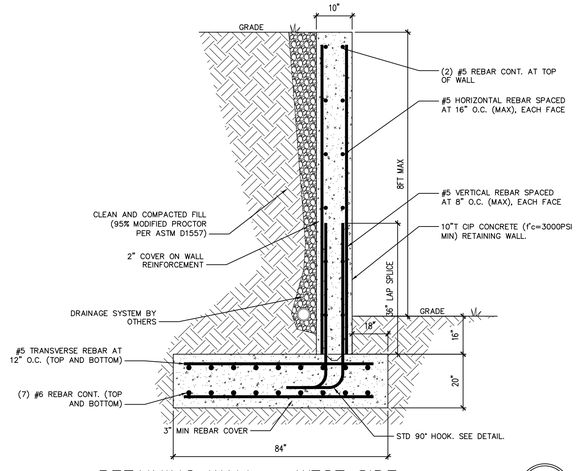
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- CIVIL PLAN AND ALL RELATED INFORMATION IS SHOWN FOR VISUAL REFERENCE ONLY AND TO LOCATE RETAINING WALLS. REFER TO CIVIL PLAN, BY OTHERS, FOR ALL INFORMATION.



RETAINING WALL – PARKING LOT

SCALE: N.T.S

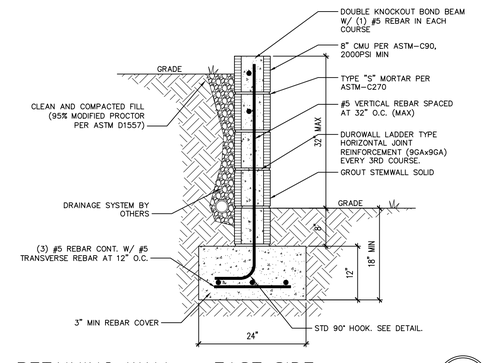
1



RETAINING WALL – WEST SIDE

SCALE: N.T.S

2



RETAINING WALL – EAST SIDE

SCALE: N.T.S

3

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TALLAHASSEE, FL

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F.E.# 20250145

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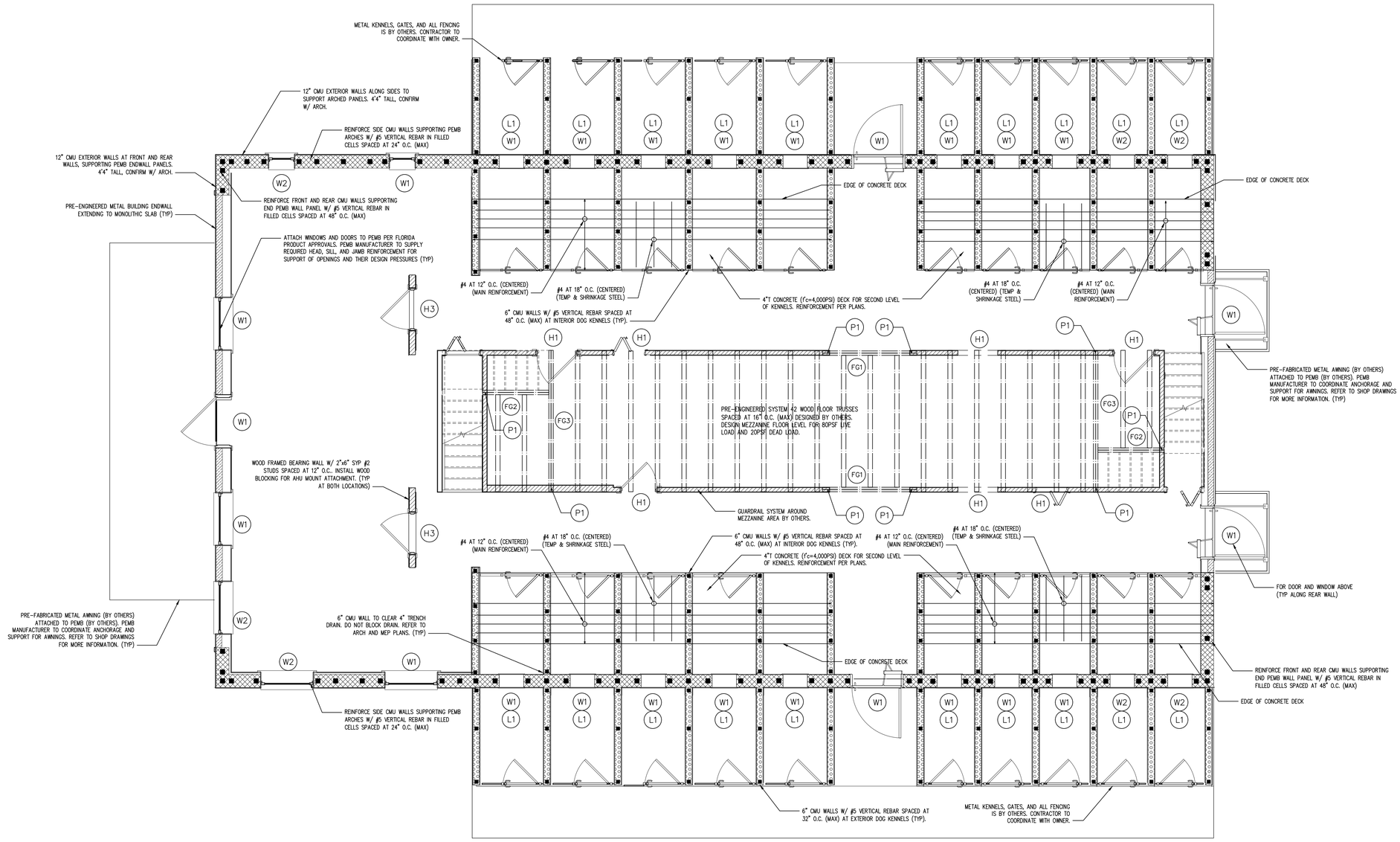
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S201

SHEET #

SIGN & SEAL

Ryan Feigel, PE., FL Reg# 88593



MAIN FLOOR STRUCTURAL PLAN

SCALE: N.T.S

A

HEADER SCHEDULE

H1	(2) 2"x12" WOOD. HEADER W/ ½" PLYWOOD FLITCH PLATE W/ (2) SIMPSON LSTA24 AT EACH END. SUPPORT ENDS OF HEADER W/ (3) 2"x4" (MIN. DEPTH) WOOD POSTS W/ (1) SIMPSON HTT4 (MASONRY) OR (2) SIMPSON LSTA24 (WOOD BEAM) AT BASE OF EACH POST U.N.O.
H2	(2) 1¾"x11¾" LVL WOOD HEADER W/ (3) SIMPSON MSTA24 AT EACH END. SUPPORT ENDS OF HEADER W/ (4) 2"x4" WOOD POSTS W/ (1) SIMPSON HTT5 AT BASE OF EACH POST
H3	(3) 2"x8" WD. HEADER W/ ½" PLYWOOD FLITCH PLATE W/ (1) SIMPSON LSTA24 AT EACH END. SUPPORT ENDS OF HEADER W/ (3) 2"x6" (MIN. DEPTH) WOOD POSTS W/ (1) SIMPSON HTT4 (MASONRY) OR (1) SIMPSON LSTA24 (WOOD BEAM) AT BASE OF EACH POST U.N.O.

POST SCHEDULE

P1	(3) 2"x4" WOOD JACK POST W/ (2) SIMPSON CS16 (WOOD BEAM) OR (1) SIMPSON HTT4 (MASONRY/CONCRETE) AT BASE. U.N.O. BLOCK BEARING SOLID.

LINTEL SCHEDULE

L1	12"x16"D (MIN) PRECAST MASONRY COMPOSITE BEAM W/ (2) #5 REBAR IN PRECAST, GROUTED SOLID TO KNOCK-OUT BOND BEAM ABOVE. REFER TO STANDARD DETAILS FOR MORE INFORMATION
L2	12"x24"D (MIN) PRECAST MASONRY COMPOSITE BEAM W/ (2) #5 REBAR IN PRECAST, GROUTED SOLID TO KNOCK-OUT BOND BEAM ABOVE. REFER TO STANDARD DETAILS FOR MORE INFORMATION.

STRUCTURAL NOTE

C1	ATTACH WOOD FRAME WALL TO MASONRY W/ ⅝"ø EPOXY ANCHOR BOLTS, SPACED @ 24" O.C. (6" EMBEDMENT, SIMPSON SET EPOXY)
W1 W2	REFER TO WIND PRESSURE CHART ON SHEET S100 FOR THE REQUIRED WIND PRESSURE RATING

NOTE: ALL PRECAST/POWERBOX LINTELS SHALL BE SUPPORTED DURING CONCRETE CURE PER MANUFACTURER SPECIFICATIONS.

PRECAST LINTEL DEPTH NOTE:
PRECAST LINTEL DEPTHS DENOTED IN L# NOTES ARE MINIMUMS. ADDITIONAL COURSES OF BLOCK BETWEEN TOP OF MASONRY COMPOSITE BEAM AND KNOCKOUT BLOCK AT TOP OF WALL CAN BE GROUTED SOLID. SEE TYPICAL LINTEL DETAIL FOR MORE INFORMATION.

POST SIZE NOTES:
- THE NUMBER OF STUDS IN A HEADER SPEC INCLUDES THE KING STUD (EX: (1) 2"x4" KING STUD AND (2) 2"x4" JACK STUDS IS A (3) 2"x4" STUD POST PER HEADER NOTE).
- FOR ALL WOOD JACK POST, THE SIZE OF THE POSTS SHALL BE INCREASED TO FIT THE WALL (EXAMPLE: A (3) 2"x4" WOOD JACK POST IN A 6" WALL WOULD CONSIST OF (3) 2"x 6" WOOD JACKS INSTEAD OF THE 2"x 4" WOOD JACKS SPECIFIED IN THE POST NOTE).

POST STRAPPING NOTES:
- THE STRAPPING AT THE BASE OF THE POST IS DENOTED IN THE POST (P#) NOTE.
- THE REQUIRED STRAPPING AT THE TOP OF POSTS IS INCLUDED AS PART OF THE NOTE FOR THE BEAM/HEADER/TRUSS THAT BEARS ON THIS POST. IF NO OTHER STRAP SPECIFICATION IS FOUND, INSTALL (2) SIMPSON HTS20 STRAPS AT THE TOP OF THE POST.
- MSTCM60 FLAT STRAPS CAN BE USED IN LIEU OF HTT4 ANCHORS WHERE CMU IS FULLY GROUTED BELOW, AND STRAPS CAN BE INSTALLED AS PER MANUFACTURER REQUIREMENTS.

JACK POST NAILING NOTE:
ALL JACK POSTS MUST HAVE PLY NAILING PATTERNS SPECIFIED ON SHEET S103. ANY MEASURES LISTED HERE ARE IN ADDITION TO THE REQUIRED INTER-PLY NAILING. FOR POSTS W/ MORE THAN 3 JACKS, NAIL 3 JACKS TOGETHER FIRST, THEN ADD INDIVIDUAL JACKS AND NAIL TO BUNDLE.

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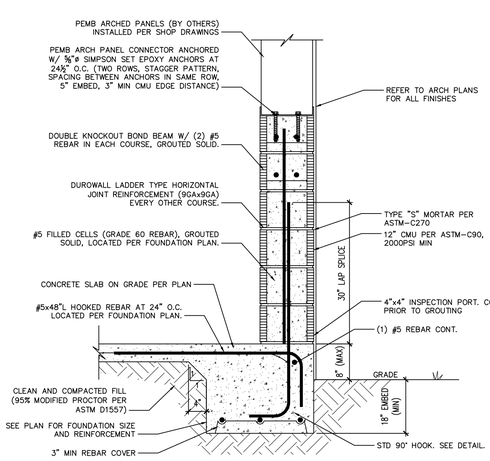
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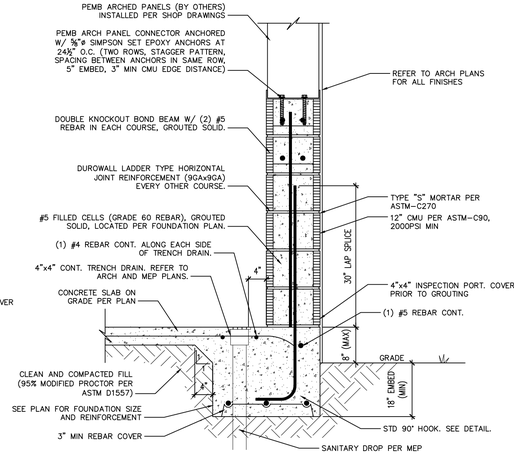
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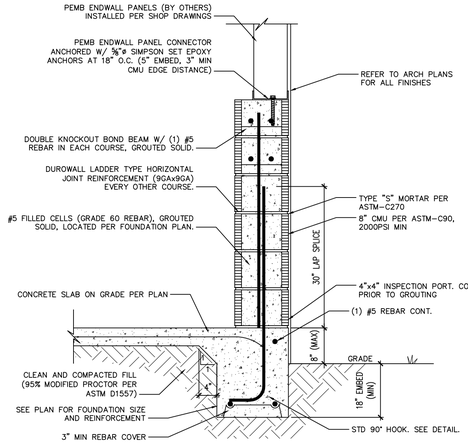
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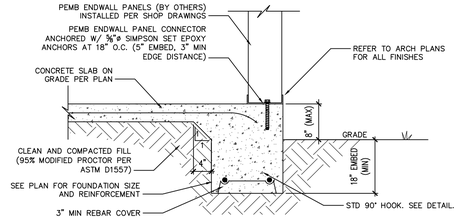
TYP MONOLITHIC FOUNDATION — 1A
SCALE: N.T.S



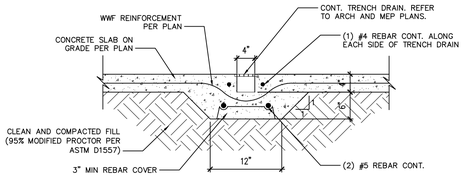
WALL FOUNDATION AT INT. DRAIN — 1B
SCALE: N.T.S



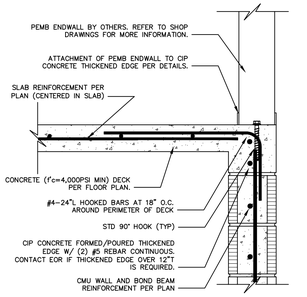
ENDWALL MONOLITHIC FOUNDATION — 2A
SCALE: N.T.S



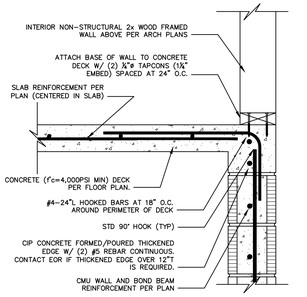
ENDWALL MONOLITHIC FOUNDATION — 2B
SCALE: N.T.S



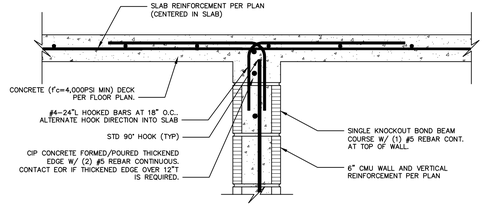
THICKENED SLAB AT EXT. DRAIN — 3
SCALE: N.T.S



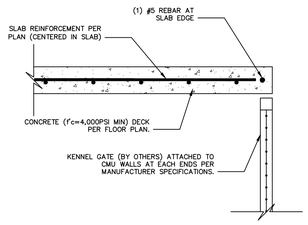
CONCRETE DECK – ENDWALL — 4
SCALE: N.T.S



CONCRETE DECK – ENDWALL — 5
SCALE: N.T.S



CONCRETE DECK – INT. WALL — 6
SCALE: N.T.S



CONCRETE DECK – KENNEL GATE — 7
SCALE: N.T.S

BID SET - NOT FOR CONSTRUCTION

FEIGEL ENGINEERING
Florida Engineering Business #37382
Email: Ryan@feigel-engineering.com
Phone: (727) 542-3850
Address: 1463 Oakfield Dr, Suite #102 Brandon, FL. 33511
Website: www.Feigel-Engineering.com

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ELECTRONIC SIGNATURES:
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Ryan Feigel, PE., FL Reg# 88593

REV	DATE	

PETROPOLIS KENNEL

TALLAHASSEE, FL

90% REVIEW SET - 12/22/2025

F.E.# 20250145

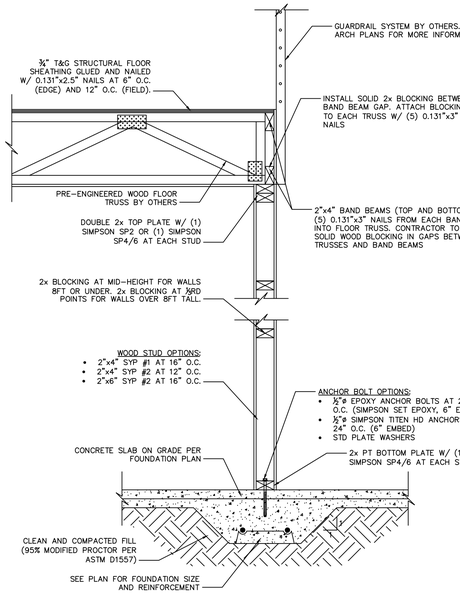
DRAWN BY: RF

SCALE: NTS

S400
SHEET #

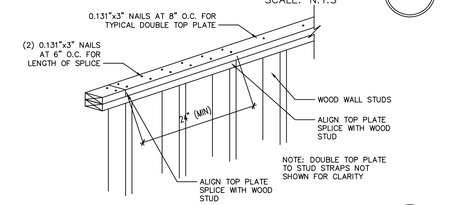
SIGN & SEAL

Ryan Feigel, PE., FL Reg# 88593



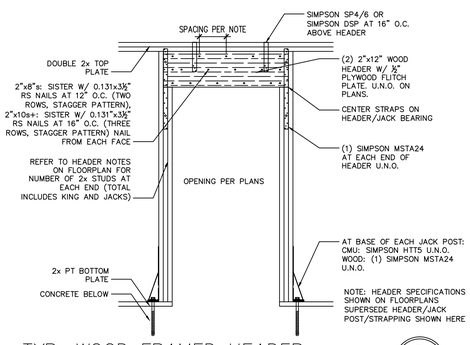
INT. WOOD BEARING WALL — 1

SCALE: N.T.S



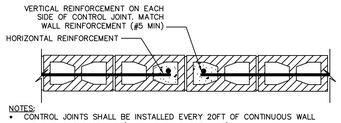
WOOD TOP PLATE SPLICE — 2

SCALE: N.T.S



TYP. WOOD FRAMED HEADER — 3

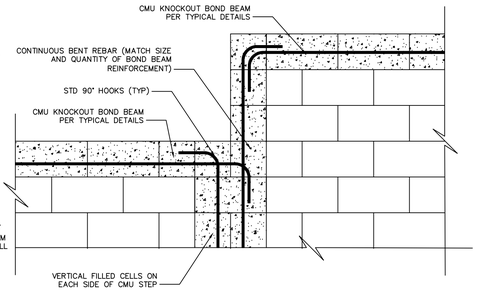
SCALE: N.T.S



NOTES:
- CONTROL JOINTS SHALL BE INSTALLED EVERY 20FT OF CONTINUOUS WALL WITHOUT INTERRUPTIONS (WALL JOGS OR OPENINGS).
- CONTROL JOINT SHALL BE CONTINUOUS FROM TOP OF FOUNDATION TO UNDERSIDE OF KNOCKOUT BOND BEAM / TIE-BEAM ABOVE. FOR FLOORS ABOVE GROUND FLOOR, CONTROL JOINT SHALL BE CONTINUOUS FROM TOP OF KNOCKOUT BOND BEAM / TIE-BEAM TO UNDERSIDE OF KNOCKOUT BOND BEAM / TIE-BEAM ABOVE.
- REINFORCEMENT OF FOUNDATIONS, KNOCKOUT BOND BEAMS, AND TIE-BEAMS SHALL RUN CONTINUOUS ACROSS CONTROL JOINTS.
- HORIZONTAL CMU JOINT REINFORCEMENT (DUROWALL) SHALL NOT RUN ACROSS CONTROL JOINT.
- REFER TO ARCH PLANS FOR MORE INFORMATION OR CONTROL JOINT LOCATIONS.

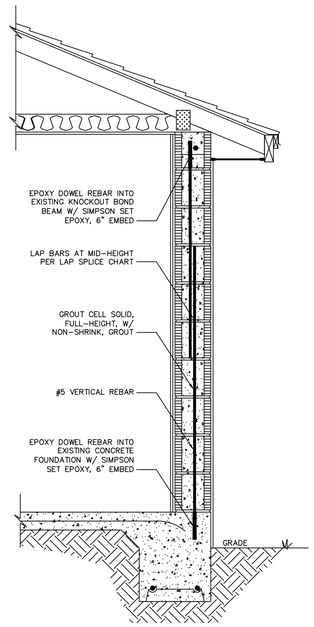
TYP. CMU CONTROL JOINT — 4

SCALE: N.T.S



CMU TRANSITION AT STEP — 5

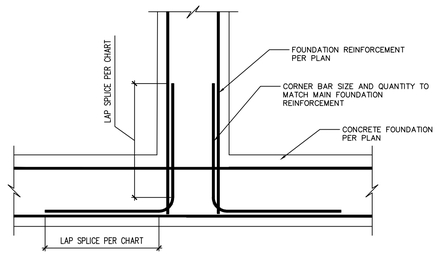
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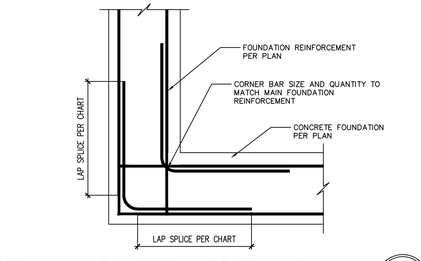


RETROFIT VERTICAL FILLED CELL — 6

SCALE: N.T.S

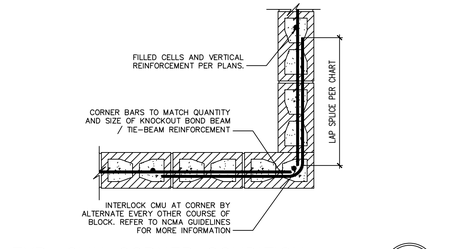
NOTES:
- MAXIMUM OF (2) MISSED FILLED CELLS IN A ROW, AND (5) TOTAL, WITHOUT WRITTEN APPROVAL BY EOR.





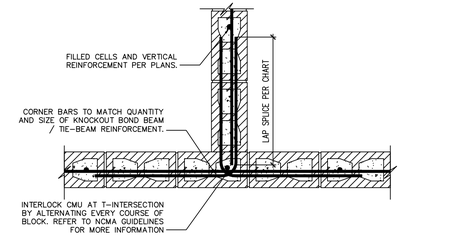
FOUNDATION STEEL CONTINUITY — 7

SCALE: N.T.S



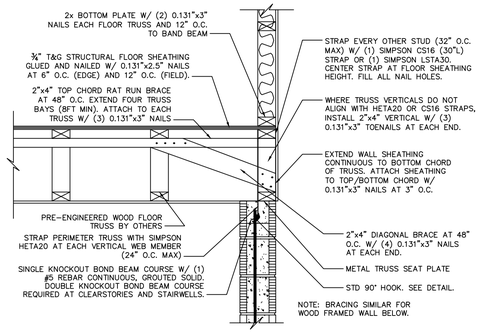
TYP. CMU CORNER CONDITION — 8A

SCALE: N.T.S



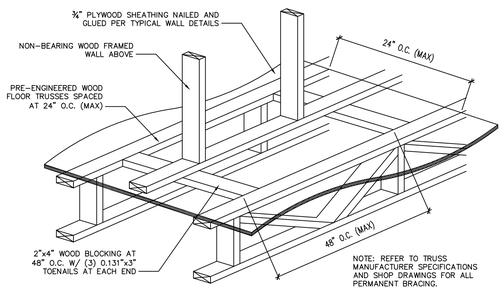
TYP. CMU T-INTERSECTION — 8B

SCALE: N.T.S



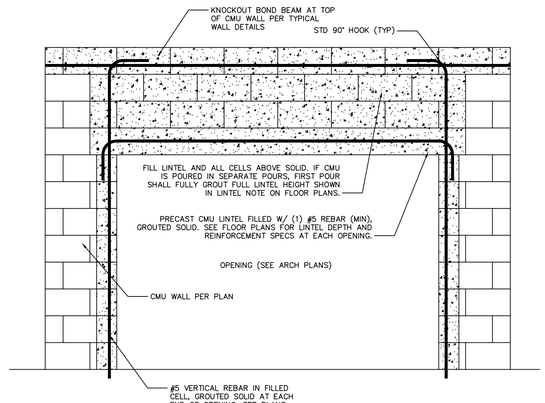
PARALLEL FLOOR TRUSS BRACING — 9

SCALE: N.T.S



FLOOR TRUSS BRIDGING — 10

SCALE: N.T.S

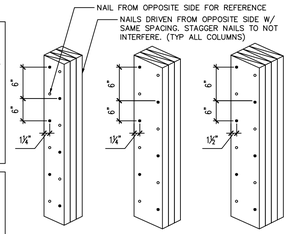


TYPICAL CMU LINTEL DETAIL — 11

SCALE: N.T.S

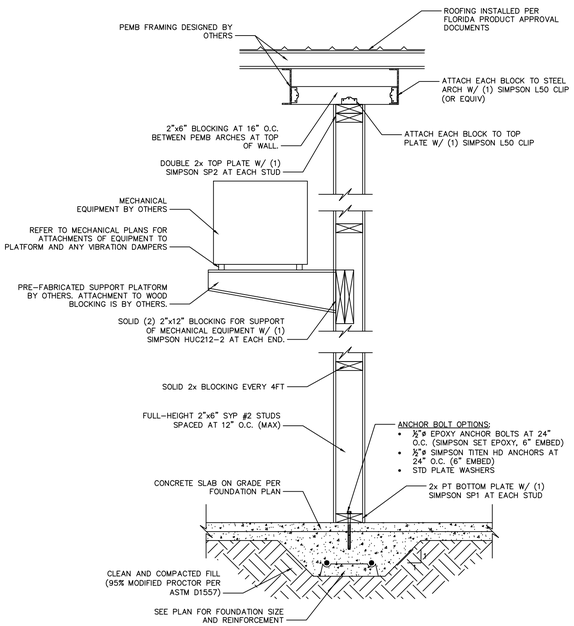
BUILT-UP COLUMN NOTES:
- ADJACENT NAILS ARE DRIVEN FROM OPPOSITE SIDES OF THE COLUMN.
- ALL NAILS PENETRATE AT LEAST ¾" OF THE THICKNESS OF THE LAST PLY.
- NAILING FROM OPPOSITE FACE IS AT SAME SPACING, AND SAME NUMBER OF ROWS.
- FOR 4-PLY COLUMNS USE ¼"ø x6"L SIMPSON SDS SCREWS SPACED AS SHOWN.
- FOR 5-PLY COLUMNS USE ¼"ø x8"L SIMPSON SDS SCREWS SPACED AS SHOWN.
- REFER TO NDS SPECIFICATION 15.3 FOR ADDITIONAL INFORMATION.

LATERAL BLOCKING NOTES:
- AT EXTERIOR WALLS, INSTALL 2x WALL BLOCKING PER TYPICAL DETAIL AND NAIL WALL SHEATHING TO TWO POST PLYS AT 6" O.C.
- AT INTERIOR BEARING WALLS, INSTALL 2x WALL BLOCKING PER TYPICAL DETAILS.
- AT INDIVIDUAL POSTS, INSTALL 2x BLOCKING BETWEEN JACK POST AND ADJACENT STUD ON EITHER STUD AT 1/3RD POINTS ALONG POST



WOOD JACK POST NAILING SCHEDULE — 12

SCALE: N.T.S



INT. WOOD BEARING WALL — AHU — 13

SCALE: N.T.S

BID SET - NOT FOR CONSTRUCTION

FEIGEL ENGINEERING
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Ryan Feigel, PE., FL Reg# 88593

REV	DATE	

PETROPOLIS KENNEL

TALLAHASSEE, FL

90% REVIEW SET - 12/22/2025

F.E.# 20250145

DRAWN BY: RF

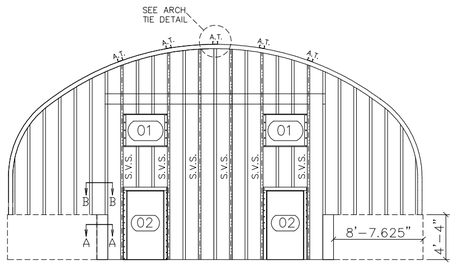
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S401

SHEET #

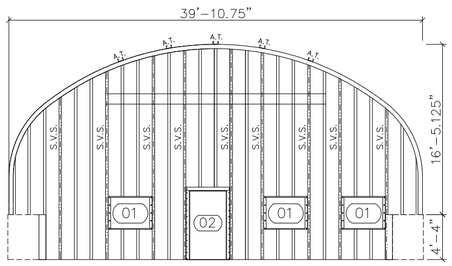
SIGN & SEAL

Ryan Feigel, PE., FL Reg# 88593



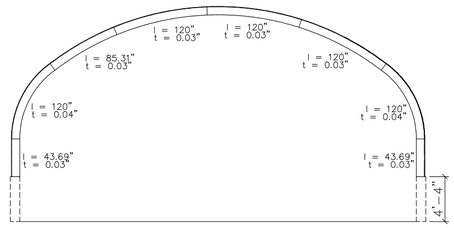
SOUTH ELEVATION

S.V.S. – STRONGER VERTICAL STIFFENERS t = 0.093"
A.T. – ARCH TIE

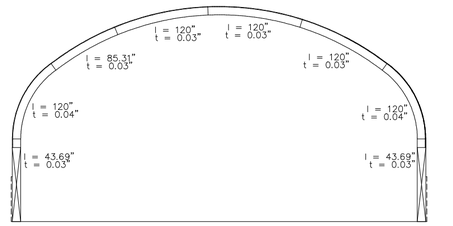


NORTH ELEVATION

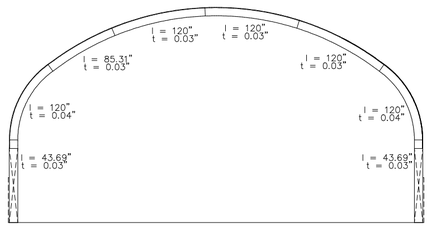
S.V.S. – STRONGER VERTICAL STIFFENERS t = 0.093"
A.T. – ARCH TIE



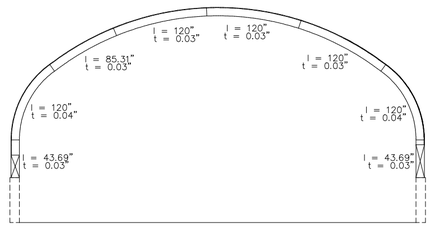
ARCH PROFILE "A" (25 ARCHES)



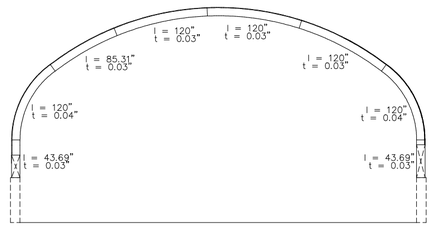
ARCH PROFILE "B" (2 ARCHES)



ARCH PROFILE "C" (2 ARCHES)



ARCH PROFILE "D" (4 ARCHES)



ARCH PROFILE "E" (4 ARCHES)

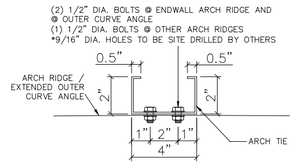


SPECIFIED ARCH REACTIONS PER TYPICAL ARCH END		
LOAD TYPE	Rh (lbs/ft)	Rv (lbs/ft)
DEAD LOAD	30	75
LIVE LOAD	139	280
SNOW LOAD	0	0
EXTERNAL WIND	-208	-426
INTERNAL WIND PRESSURE	-15	-101

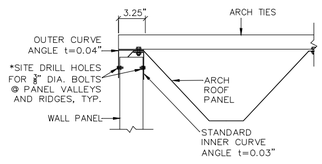
01	WINDOW SCHEDULE	WINDOW SILL
	45"W X 36"H	T.B.D
WINDOW OPENINGS TO BE LOCATED AND FIELD CUT ON SITE BY OTHERS.		

02	DOOR SCHEDULE	
	42.5"W X 79.5"H	
SERVICE DOOR TO BE LOCATED AND FIELD CUT ON SITE BY OTHERS.		

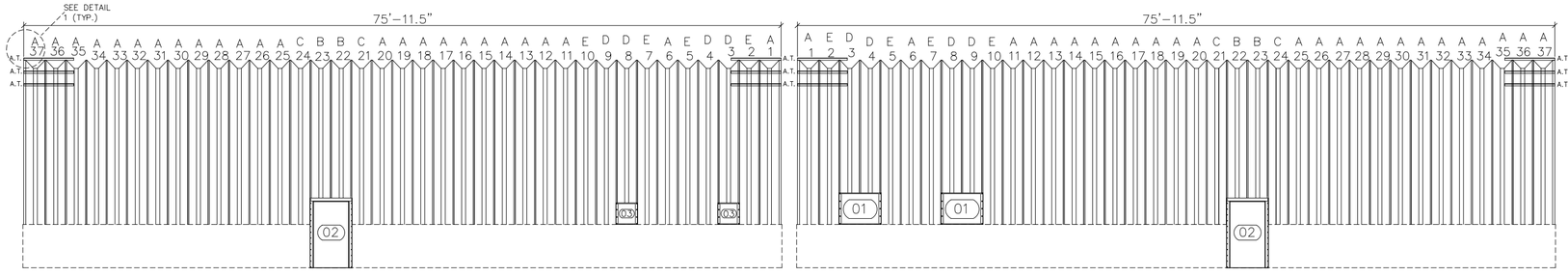
03	WINDOW SCHEDULE	WINDOW SILL
	21"W X 24"H	T.B.D
WINDOW OPENINGS TO BE LOCATED AND FIELD CUT ON SITE BY OTHERS.		



ARCH TIE DETAIL (TYP.)
T = 0.075"

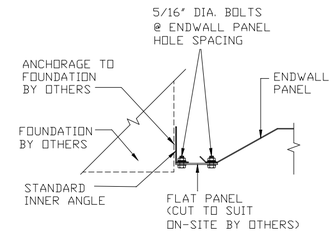


DETAIL 1(TYP.)

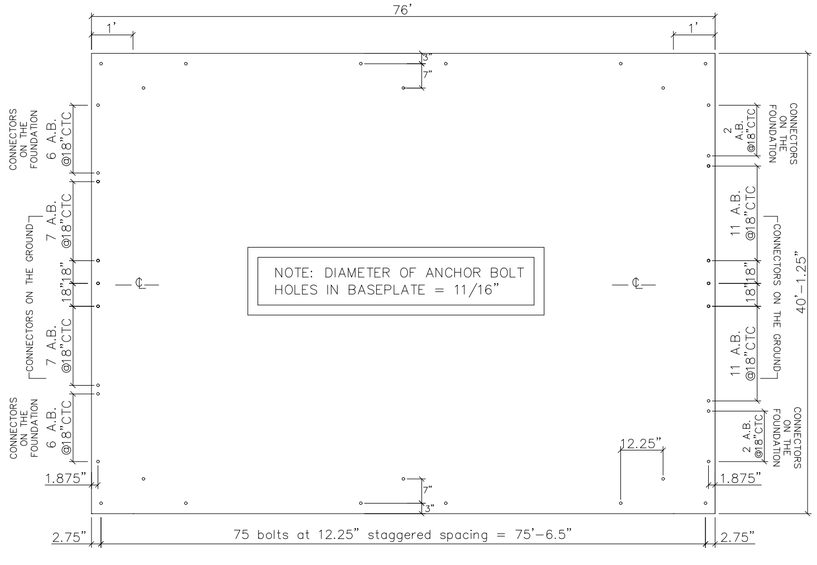


EAST ELEVATION

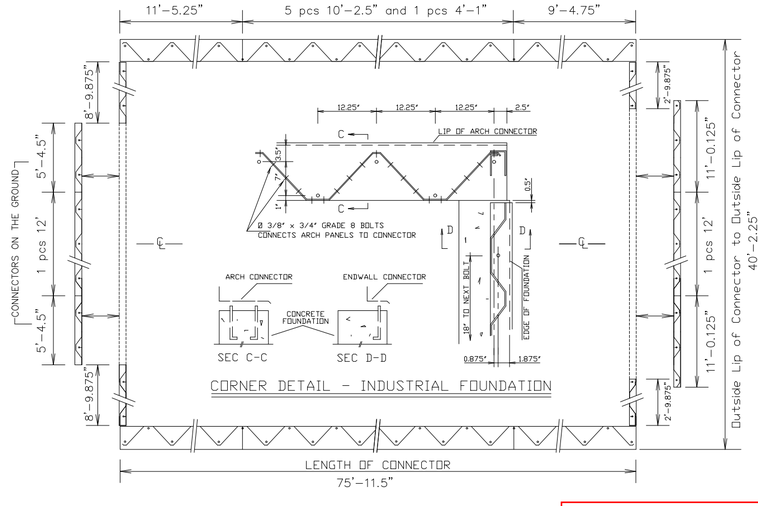
WEST ELEVATION



CONTAINER CONNECTION DETAIL
SECTION A-A

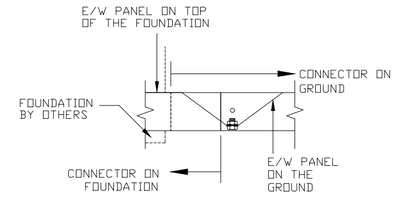


ANCHOR LAYOUT



CORNER DETAIL - INDUSTRIAL FOUNDATION

INDUSTRIAL CONNECTOR LAYOUT



CONNECTOR PLACEMENT DETAIL
SECTION B-B

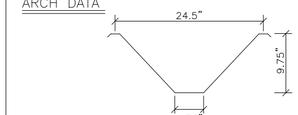
GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE INTERNATIONAL BUILDING CODE 2021 AND THE 2023 FLORIDA BUILDING CODE. DESIGN ACCORDING TO AISI S100-16(2020) W/S2-20, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AND WITH ASCE/SEI 7-22.
2. NO LOADS OTHER THAN THOSE GIVEN UNDER "DESIGN DATA" BELOW SHALL BE IMPOSED ON THE "STRUCTURE"
3. SPECIFIC NOTES AND DETAILS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE BUILDING MANUAL SUPPLIED.
4. THE BUILDING, INCLUDING THE FOUNDATION, MUST BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE DRAWING AND ERECTION INSTRUCTIONS. ANY DEVIATION, UNLESS APPROVED BY US IN WRITING, SHALL NULLIFY OUR CERTIFICATE AND SEAL AND SHALL BE THE SOLE RESPONSIBILITY OF THE ERECTOR.
5. A PROFESSIONAL ENGINEER SHOULD BE RETAINED WHERE SITE INSPECTIONS ARE WARRANTED.
6. NO ARCH PANEL MAY BE CUT OR MODIFIED UNLESS IT IS TO ACCOMMODATE AN ACCESSORY PROVIDED BY THE MANUFACTURER IN ACCORDANCE WITH ITS INSTRUCTIONS AND/OR THIS DRAWING.
7. MINIMUM SEPARATION FROM THIS BUILDING TO ANY TALLER BUILDING MUST BE THE SMALLER OF 20 FEET AND 6 TIMES THE HEIGHT DIFFERENCE.
8. IF SEALED BY AN ENGINEER, THIS DRAWING IS FOR PERMIT APPLICATION. OTHERWISE IT IS A DRAFT AND NOT FOR CONSTRUCTION.

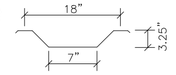
FOUNDATION NOTES

NOTE: THE FOUNDATION AND BUILDING ANCHORAGE MUST BE DESIGNED BY A LOCAL ENGINEER BASED ON THE BUILDING DIMENSIONS, ARCH REACTIONS, SITE CONDITIONS AND BUILDING CODE REQUIREMENTS.

ARCH DATA



ENDWALL DATA



BOLTS: SAE GRADE 2 OR ASTM A307
ARCH STEEL THICKNESS – SEE ARCH PROFILE
ENDWALL STEEL THICKNESS = 0.03 in.

GALVALUME SHEET STEEL
STRUCTURAL QUALITY ASTM SPECIFICATION A792-10 (2015)
55% ALUMINUM-ZINC ALLOY (HOT DIP COATING)
ASTM A792 GRADE 50A
50 KSI MINIMUM YIELD
65 KSI MINIMUM TENSILE
HSS SECTIONS SHALL CONFORM TO:
ASTM A500 GRADE B (Fy = 46 ksi)
W SECTIONS SHALL CONFORM TO:
ASTM A992 GRADE 50 (Fy = 50 ksi)
OTHER SECTIONS SHALL CONFORM TO:
ASTM A36 (Fy = 36 ksi)

ARCH DESIGN DATA IN ACCORDANCE WITH ASCE/SEI 7-22
Lo: ROOF LIVE LOAD (PSF) = 20
Pg: GROUND SNOW LOAD (PSF) = 0
Ce: EXPOSURE FACTOR = 1.1
Ct: THERMAL FACTOR = 1.0
CATEGORY II BUILDING
Pnet: COMPONENT WIND PRESSURE (PSF) = +/- 30
V : BASIC WIND SPEED (MPH) = 120
Kh: VELOCITY PRESSURE EXPOSURE = 0.88
GCpi: PRODUCT OF INTERNAL PRESSURE COEFFICIENT AND GUST-EFFECT FACTOR = +/- 0.18
Kd: WIND DIRECTIONALITY FACTOR = 0.85
Kzt: TOPOGRAPHIC FACTOR = 1.0
Ke: Ground Elevation Factor = 1.00
WIND EXPOSURE CATEGORY = C
SEISMIC DESIGN CATEGORY = B

State of Florida Product Approval # FL15623-R7

LEGAL NOTE

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REVISIONS:

ENGINEER'S SEAL:

BID SET - NOT FOR CONSTRUCTION

SteelMaster Buildings
220 Chrysler Drive, Brampton, Ontario, Canada, L6S 6B6, Phone: (905) 790-8500

SCALE:	N.T.S.	P.G.	
DATE:	01/13/2026	APPROVED BY:	
		CHECKED BY:	N.M.

PROJECT: Ernesto Porras
Tallahassee, FL

MODEL: XS40-16
DWG: 81-69194 R

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	QUANTITY
A		(1) 40W LED	4' LED WRAP AROUND FIXTURE	ELECTRONIC	CEILING	PROVIDED BY OWNER	40	120V 1P 2W	9
B		(1) 30W LED	2' LED WRAP AROUND FIXTURE	ELECTRONIC	CEILING	PROVIDED BY OWNER	30	120V 1P 2W	17
C		(1) 15W LED	ACUITY DOWNLIGHT (STANDARD)	ELECTRONIC	CEILING	LDN4 ALO2 40K LO4AR LD MVOLT UGZ	15	120V 1P 2W	7
D		(1) 20W LED	LED MOTION SENSOR STEP LIGHT	ELECTRONIC	SURFACE	PROVIDED BY OWNER	20	120V 1P 2W	8
E		(1) 25W LED	ACUITY WALLPACK	ELECTRONIC	WALL	TWX2 LED P3 40K MVOLT PE DDBXD	25	120V 1P 2W	6
EM		(1) 3W LED	ACUITY Emergency Light	ELECTRONIC	CEILING	ELMEL	3	120V 1P 2W	4
XC		(1) 3W LED	ACUITY EMERGENCY EXIT COMBO	ELECTRONIC	CEILING	LHQM S W 3 R	3	120V 1P 2W	9

SWITCH SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	QUANTITY
OS	$OS	OCUPANCY SENSOR SWITCH	8
Threeway Switch	$3		8

LIGHTING CONTROL

CALLOUT	SYMBOL	DESCRIPTION	QUANTITY
OS	(OS)	OCCUPANCY SENSOR	4

RECEPTACLE SCHEDULE

CALLOUT	SYMBOL	VOLTS	FEATURES	NOTE 1
GFCI		120V 1P 2W	GND	DUPLEX RECEPTACLE 120V. 20A WITH GROUND FAULT INTERRUPTING DEVICE
GFCI_WP		120V 1P 2W	WP, GND	DUPLEX RECEPTACLE 120V. 20A WITH GROUND FAULT INTERRUPTING DEVICE. WEATHERPROOF
JB	J	120V 1P 2W	GND	JUNCTION BOX. 120V. 20A
STND		120V 1P 2W	GND	DUPLEX RECEPTACLE 120V. 20A

GENERAL SCHEDULE

CALLOUT	SYMBOL	VOLTS	AMPS	KVA	CIRCUIT
AHU-3		208V 3P 3W	10	3.6	A-14,16,18
AHU-4		208V 3P 3W	10	3.6	A-20,22,24
CU-1		208V 2P 2W	32	6.66	A-1,3
CU-2		208V 2P 2W	16	3.33	A-5,7
CU-3		208V 3P 3W	23	8.29	A-2,4,6
CU-4		208V 3P 3W	23	8.29	A-8,10,12
DWH		208V 2P 2W	21.63	4.5	A-13,15
DWH		208V 2P 2W	21.63	4.5	A-9,11

LOW VOLTAGE SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	QUANTITY
Computer Outlet	◁	2-CAT6	4

PROJECT NOTES:

1. THE SCOPE OF THIS PROJECT IS TO PROVIDE POWER TO A NEW CONSTRUCTION. NEW SERVICE TO BE ADDED.
2. ALL MATERIALS AND INSTALLATION, AS A MINIMUM, ARE TO CONFORM WITH THE NATIONAL ELECTRIC CODE (NEC 2020), FLORIDA BUILDING CODE (FBC 2023), 8TH EDITION, AND THE LATEST EDITIONS OF THE LOCAL CODES AND ORDINANCES, INCLUDING ALL AMENDMENTS TO THE N.E.C. EQUIPMENT, WHERE APPLICABLE, WILL BE LISTED WITH THE UNDERWRITERS LABORATORIES, INC. QUALITY AND WORKMANSHIP ESTABLISHED BY DRAWINGS AND SPECIFICATIONS ARE NOT TO BE REDUCED BY THE ABOVE MENTIONED CODES.
3. ALL GROUNDING AND BONDING MUST BE IN COMPLIANCE WITH NEC ARTICLE 250 AND AHJ.
4. LOAD DATA IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT THE TIME OF DESIGN.
5. ALL ELECTRICAL WORK FOR FABRICATED EQUIPMENT SHALL BE COMPLETELY WIRED BY THE EQUIPMENT MANUFACTURER TO A JUNCTION BOX OR PULL BOX, AND ALL ELECTRICAL WORK FROM PANEL BOARDS TO BE BY THE ELECTRICAL CONTRACTOR.
6. TYPEWRITTEN CIRCUIT INDEX SHALL BE AFFIXED INSIDE SURFACE OF PANEL BOARD DOOR, CLEARLY INDICATING AREA AND LOAD SERVED BY EACH BRANCH CIRCUIT
7. ELECTRICAL CONTRACTOR SHALL FURNISH ALL ELECTRICAL MATERIALS TO COMPLETE THIS PROJECT.
8. ELECTRICAL CONTRACTOR SHALL VERIFY ALL HVAC EQUIPMENT BEFORE RUNNING CIRCUITS. CONSULT MECHANICAL PLANS OR EQUIPMENT TAGS.
9. ALL CONDUCTORS SHALL BE THHN/THWN TYPE. UNLESS OTHERWISE CONDUCTOR SIZE NOTED ON THE PLANS SHALL BE 2#12 THWN COPPER AND 1#12 COPPER GROUND IN 1/2"C FOR 120V CIRCUITS AND 3#12 THWN COPPER AND 1#12 COPPER GROUND IN 1/2"C FOR 208V. MC CABLE CAN BE USED ONLY IN AREAS ALLOWED BY NEC ARTICLE 330.
10. EXTERIOR DISCONNECTS SHALL BE NEMA3R RATED. INTERIOR DISCONNECTS SHALL BE NEMA1 RATED. ALL DISCONNECTS SHALL BE HEADY DUTY TYPE.

LIGHTING NOTES:

1. ALL EMERGENCY LIGHTING SHALL HAVE INTERNAL BATTERY BACKUP. ALL EXIT SIGNS ARROWS TO POINT TOWARDS CLOSEST BUILDING EXIT. EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED ON THE SAME CIRCUIT OF THE ROOM THAT IS SERVICING AND ALSO AHEAD OF ALL SWITCHES.
2. ALL LIGHTING EQUIPMENT SHALL BE U.L. APPROVED. ELECTRICAL CONTRACTOR TO PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED FACILITATING THE WORK DURING CONSTRUCTION, AS WELL AS ACQUIRING ALL PERMITS AND PROGRESS OF INSPECTIONS.
3. ALL ROOM LIGHTING CONTROLS SHALL COMPLY PER THE FLORIDA BUILDING CODE 2023 ENERGY CONSERVATION CHAPTER 4 SECTION C405. AUTOMATIC TIME SWITCH CONTROLS SHALL BE INSTALLED TO CONTROL LIGHTING IN ALL AREAS OF THE BUILDING.
4. INTERIOR FIXTURES SHALL BE CONNECTED VIA LIGHTING CONTROL SYSTEM CIRCUITING. PLEASE CONSULT LIGHTING DISTRIBUTOR FOR LIGHTING CONTROL DETAILS.
5. EXTERIOR LIGHTS SHALL BE CONTROLLED VIA PHOTO-SENSOR/ASTRONOMICAL CLOCK. THEY SHALL AUTOMATICALLY TURN ON AT DUSK AND OFF AT DAWN. EXTERIOR LIGHTING MAY ALSO BE REDUCED AFTER CLOSING BUSINESS IF THERE IS NO DANGER OR SECURITY ISSUE.
6. LIGHTING FUNCTIONAL TEST IS REQUIRED ONCE SYSTEM IS INSTALLED PER FBC 2023 8TH EDITION ENERGY CONSERVATION SECTION 408.3.1.

BID SET - NOT FOR CONSTRUCTION

PREPARED BY

EPD ELECTRICAL POWER DESIGNS

13550 Wright Circ, Tampa, FL 33626
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CARLOS M. ORAMA, PE.
ELECTRICAL ENGINEER
PE #60205 CA #27385

ISSUE REVISIONS

No.	Date	Description	By

CLIENT

DEISGN SHARP STUDIO

PROJECT

PETROPOLIS

ADDRESS

TALLAHSSEE, FL

SHEET NAME

PROJECT NOTES

JOB # E25-176 | BY ZMA

ISSUE DATE

08.27.25

SCALE

1/4"=1'-0"

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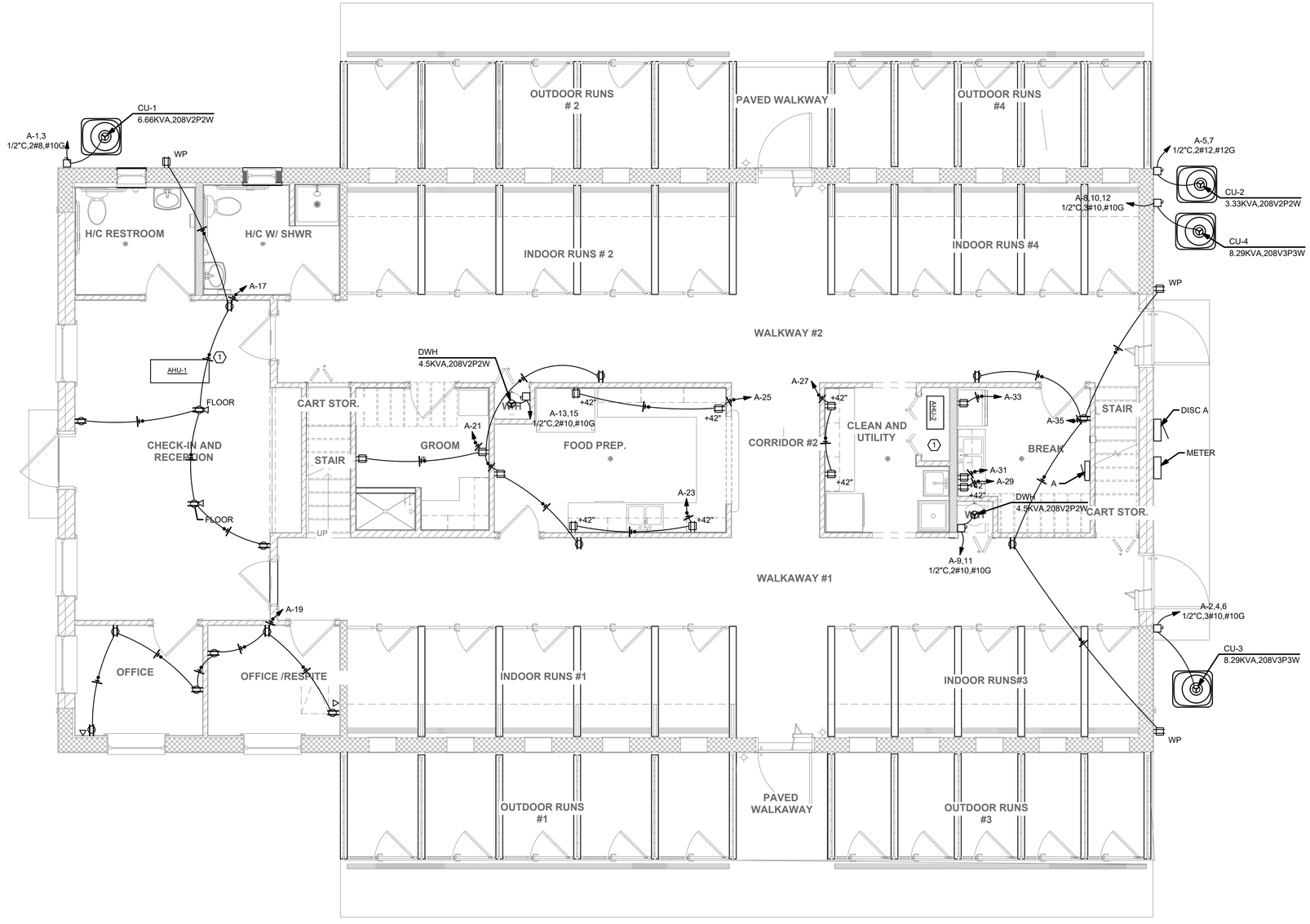
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KEY POWER NOTES:

1. AHU-1 & AHU-2 ARE TO BE POWERED BY OUTDOOR UNIT CU-1 & CU-2.



1 E-2 FIRST FLOOR POWER PLAN

1/4"=1'-0"

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No.	Date	Description	By

CLIENT

DEISGN SHARP STUDIO

PROJECT

PETROPOLIS

ADDRESS

TALLAHSSEE, FL

SHEET NAME

POWER PLAN

JOB #	BY
E25-176	ZMA

ISSUE DATE

08.27.25

SCALE

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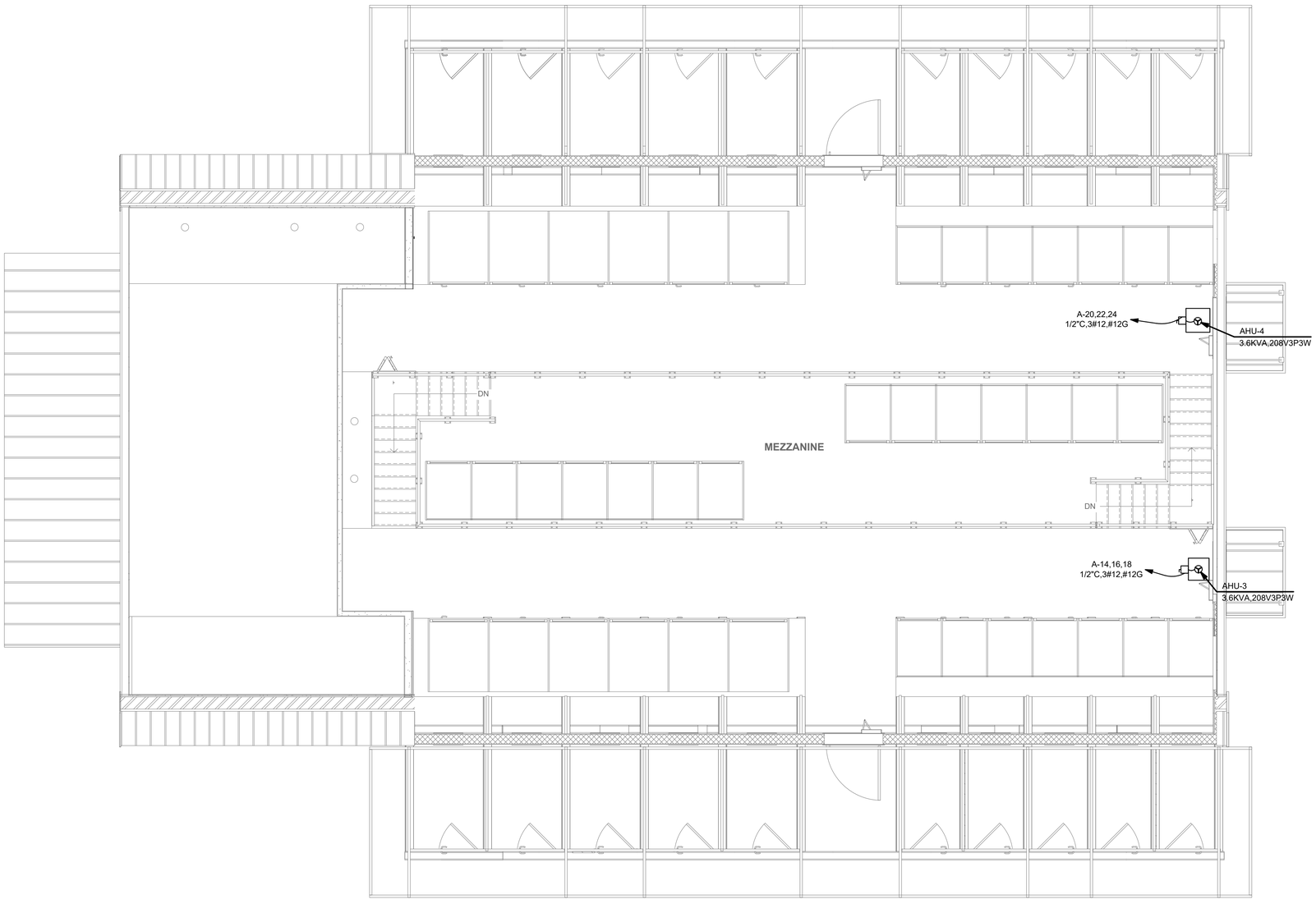
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1 E-3 MEZZANINE POWER PLAN

1/4"=1'-0"

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PROJECT

PETROPOLIS

ADDRESS

TALLAHSSEE, FL

SHEET NAME

POWER PLAN

JOB #	BY
E25-176	ZMA

ISSUE DATE

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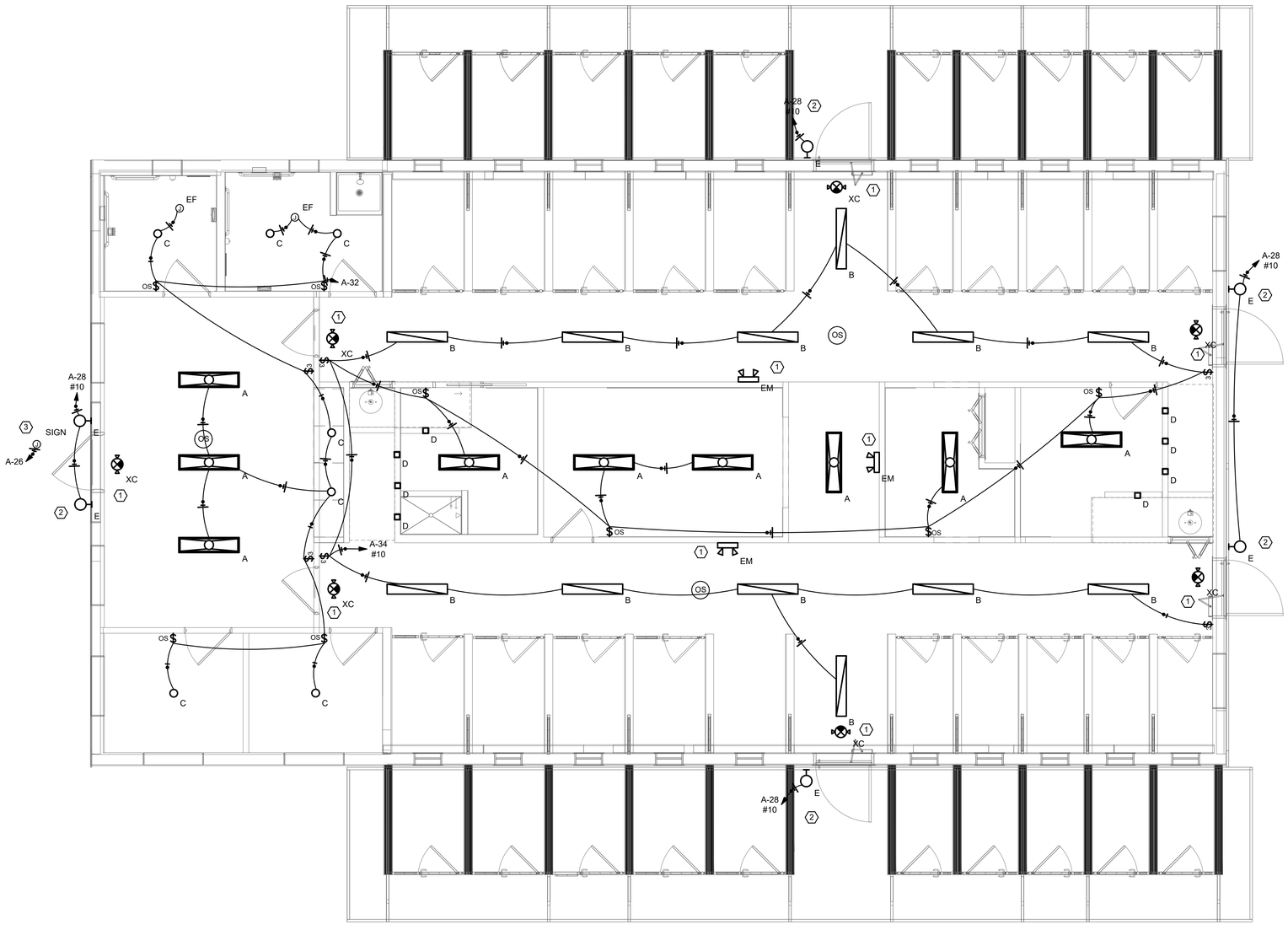
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KEY LIGHTING NOTES:

1. EMERGENCY/EXIT LIGHTS SHALL BE CONNECTED TO THE SAME LIGHTING CIRCUIT FOR THAT AREA, AHEAD OF ALL SWITCHES.
2. EXTERIOR LIGHTS SHALL BE CONTROLLED VIA PHOTO-SENSOR/ASTRONOMICAL CLOCK
3. FRONT SIGNS SHALL BE CONTROLLED VIA PHOTO-SENSOR/ASTRONOMICAL CLOCK. THEY SHALL AUTOMATICALLY TURN ON AT DUSK AND OFF AT DAWN.



1 E-4 FIRST FLOOR LIGHTING PLAN

1/4"=1'-0"

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PROJECT

PETROPOLIS

ADDRESS

TALLAHSSEE, FL

SHEET NAME

LIGHTING PLAN

JOB #	BY
E25-176	ZMA

ISSUE DATE

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SCALE

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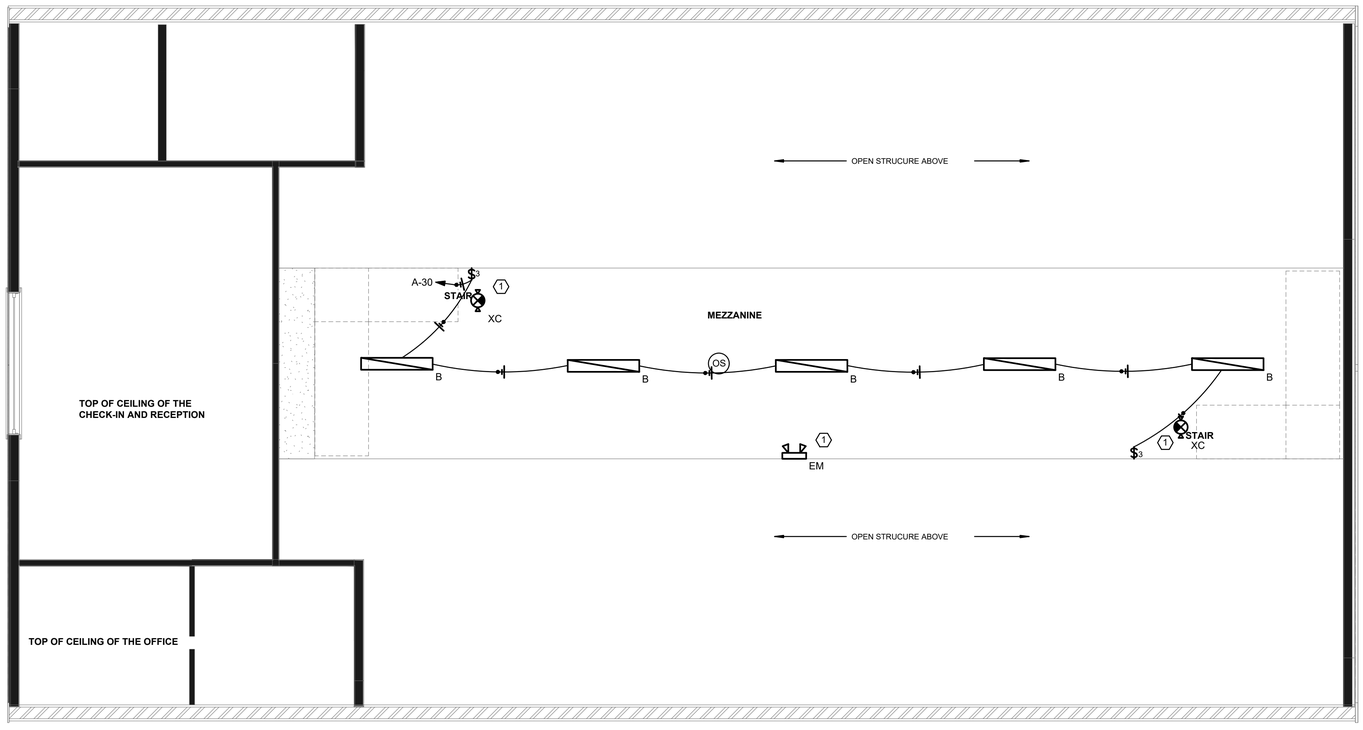
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KEY LIGHTING NOTES:

1. EMERGENCY/EXIT LIGHTS SHALL BE CONNECTED TO THE SAME LIGHTING CIRCUIT FOR THAT AREA, AHEAD OF ALL SWITCHES.
2. EXTERIOR LIGHTS SHALL BE CONTROLLED VIA PHOTO-SENSOR/ASTRONOMICAL CLOCK
3. FRONT SIGNS SHALL BE CONTROLLED VIA PHOTO-SENSOR/ASTRONOMICAL CLOCK. THEY SHALL AUTOMATICALLY TURN ON AT DUSK AND OFF AT DAWN.



1 E-5 MEZZANINE LIGHTING PLAN

1/4"=1'-0"

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PROJECT

PETROPOLIS

ADDRESS

TALLAHSSEE, FL

SHEET NAME

LIGHTING PLAN

JOB #	BY
E25-176	ZMA

ISSUE DATE

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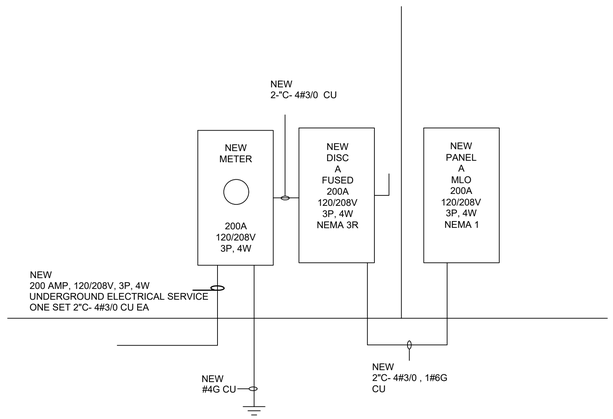
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RISER GENERAL NOTES:

1. ALL GROUND ELECTRODES, CONDUCTORS AND COMPLETE GROUNDING SYSTEM MUST BE DONE IN COMPLIANCE WITH NEC STD #250 AND AHJ.
2. CONTRACTOR SHALL VISIT SITE AND BECOME FAMILIAR WITH THE WORK BEFORE BIDDING ON THIS PROJECT.
3. FAULT CURRENT WAS CALCULATED AT 20820 AMPS FOR A LOCAL TRANSFORMER. VERIFY WITH LOCAL ELECTRIC COMPANY AND NOTIFY ENGINEER IF DIFFERENT.
4. ALL EXTERIOR EQUIPMENT MUST BE RATED NEMA 3R OR BETTER.
5. CONSULT AND WORK WITH LOCAL ELECTRIC FOR FIELD LOCATIONS. NOTIFY ENGINEER WITH ANY CHANGES.



1 / E-6 RISER DIAGRAM — N.T.S.

A

ROOM
MOUNTING FLUSH
FED FROM DISC A
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 200
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	35/2	CU-1	3.33			2	40/3	CU-3	2.76		
3	|			3.33		4	|			2.76	
5	25/2	CU-2			1.66	6	|				2.76
7	|		1.66			8	40/3	CU-4	2.76		
9	30/2	DWH		2.25		10	|			2.76	
11	|				2.25	12	|				2.76
13	30/2	DWH	2.25			14	15/3	AHU-3	1.2		
15	|			2.25		16	|			1.2	
17	20/1	RECEPTION RECEPTACLE			1.08	18	|				1.2
19	20/1	OFFICE RECEPTACLE	1.08			20	15/3	AHU-4	1.2		
21	20/1	UNIT RECEPTACLE		0.9		22	|			1.2	
23	20/1	FOOD PREP RECEPTACLE			0.36	24	|				1.2
25	20/1	FOOD PREP RECEPTACLE	0.36			26	20/1	SIGN	1.2		
27	20/1	UTILITY RECEPTACLE		0.36		28	20/1	EXTERIOR LIGHTING		0.15	
29	20/1	BREAK RM RECEPTACLE			0.18	30	20/1	MEZZANINE LIGHTING			0.15
31	20/1	BREAK RM RECEPTACLE	0.18			32	20/1	UNIT EF, LIGHTING	0.265		
33	20/1	FRIDGE		0.5		34	20/1	UNIT LIGHTING		0.6	
35	20/1	UNIT RECEPTACLE			0.9	36	20/1	SPACE			0
37	20/1	SPACE	0			38	20/1	SPACE	0		
39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
								TOTAL CONNECTED KVA BY PHASE	18.3	18.3	14.5

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	2.33	2.91	(125%)	RECEPTACLES	5.9	5.9	(50%>10)
LARGEST MOTOR	8.29	2.07	(25%)	CONTINUOUS	9	11.3	(125%)
MOTORS	0.04	0.04	(100%)	HEATING	17.2	0	(0%)
				COOLING	26.6	26.6	(100%)
				TOTAL LOAD		48.7	
				BALANCED 3-PHASE LOAD		135 A	

FAULT CURRENT SCHEDULE

DEVICE	FAULT	AIC RATING	L-N VOLTS	UTILITY FAULT	UTILITY X	UTILITY R	FED FROM DEVICE	FED FROM FAULT	FED FROM X	FED FROM R	FEEDER SIZE	FEEDER X / 1000'	FEEDER R / 1000'	FEEDER LENGTH	FEEDER X	FEEDER R	DIRECTLY CONNECTED MOTOR LOAD FAULT	DIRECTLY CONNECTED MOTOR LOAD X	DIRECTLY CONNECTED MOTOR LOAD R
METER	16,492		120V	16,197	0.006728	0.003103	UTIL	20,820	0.005652	0.00113	#3/0	0.042	0.077	26'	0.0011	0.002			
DISC A	16,101	100,000	120V	15,806	0.006836	0.003302	METER	16,197	0.006728	0.003103	#3/0	0.042	0.077	2'-7"	0.0001	0.0002			
A	15,236	22,000	120V	14,941	0.007092	0.00377	DISC A	15,806	0.006836	0.003302	#3/0	0.042	0.077	6'-1"	0.0003	0.0005	295	0.3942	0.09856

VOLTAGE DROP SCHEDULE

DEVICE	FEEDER VOLTAGE DROP	FEEDER WIRE SIZE	BRANCH CIRCUIT MAX VOLTAGE DROP	BRANCH CIRCUIT WIRE SIZE	TOTAL VOLTAGE DROP
METER	0.25%	#3/0	-	-	0.25%
DISC A	0.28%	#3/0	-	-	0.28%
A	0.34%	#3/0	2.44% (CKT 26)	#12	2.78%

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ELECTRICAL ENGINEER
PE #60205 CA #27385

ISSUE REVISIONS

No.	Date	Description	By

CLIENT

DEISGN SHARP STUDIO

PROJECT

PETROPOLIS

ADDRESS

TALLAHSSEE, FL

SHEET NAME

RISER DIAGRAM

JOB # E25-176 | BY ZMA

ISSUE DATE

08.27.25

SCALE

1/4"=1'-0"

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SHEET

E-6

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PART 1 GENERAL

WORK INCLUDED:

A. FURNISH ALL MATERIALS, EQUIPMENT, ACCESSORIES, LABOR, SUPERVISION AND ALL RELATED ITEMS NECESSARY TO COMPLETE THE SCOPE OF THE WORK AS INDICATED ON THE DRAWINGS AND/ OR SPECIFIED HEREIN.

B. THE FOLLOWING DATA WAS USED FOR THE THERMAL LOAD CALCULATIONS FOR THIS BUILDING:
- INDOOR DESIGN: SUMMER 74 DB @ 50% RH

CODES AND STANDARDS:

A. ALL MECHANICAL SYSTEMS, AS DESCRIBED BY THESE PLANS AND SPECIFICATIONS, SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND ALL APPLICABLE SECTIONS OF THE FOLLOWING STANDARDS. LATEST EDITION: "ASHRAE", "AMCA", "ANSI", "ARJ", "ASME", "CTI", "NFPA", "SMACNA", "UL".

B. THE ABOVE STANDARDS AND CODES ARE USED AS A MINIMUM DESIGN CRITERIA AND NO REDUCTIONS WILL BE PERMITTED. EVEN IF ALLOWED BY APPLICABLE CODES, WITHOUT WRITTEN PERMISSION BY ENGINEER; REFER TO CODE CRITERIA FOR FURTHER INFORMATION.

DRAWINGS:

A. IN GENERAL MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, STRUCTURAL AND ALL OTHER ASSOCIATED PLANS AND SHALL BE CONSTRUED AS ONE SET OF DOCUMENTS. DUCTWORK AND PIPING OFFSETS, BENDS AND TRANSITIONS OF EQUIVALENT SIZE WILL BE REQUIRED IN ORDER TO PROVIDE A COMPLETE FUNCTIONAL MECHANICAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. PLANS SHALL NOT BE SCALED.

IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THE APPARENT LOW BIDDERS FOR BOTH ELECTRICAL & MECHANICAL CONTRACTORS HAVE VERIFIED SCOPE, COORDINATED EQUIPMENT, AND HAVE PROPER VOLTAGES & AMPACITIES OF ALL MECHANICAL & PLUMBING EQUIPMENT CONTAINED WITHIN THESE DRAWINGS.

B. AS-BUILT DRAWINGS AND RECORDS:

CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS TO THE ARCHITECT/ OWNER AT THE COMPLETION OF THE PROJECT REFLECTING THE ACTUAL CONDITION OF THE MECHANICAL SYSTEM INSTALLATION AND ANY DEVIATION FROM THE ORIGINAL CONSTRUCTION DOCUMENTS. MAINTAIN A COMPLETE SET OF MECHANICAL PRINTS FOR INDICATING ALL CHANGES. USE COLORS TO MAKE CHANGES AT THE TIME OF EXECUTION. DELIVER SET TO ARCHITECT PRIOR TO ISSUANCE OF FINAL PAYMENT AND/ OR CERTIFICATE OF OCCUPANCY. ELEVATIONS, INVERTS AND DIMENSIONED LOCATIONS OF UNDERGROUND WORK SHALL BE INDICATED, DIMENSION TO PERMANENT REFERENCES.

SUBMITTALS:

A. SHOP DRAWINGS:

CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL 7 (SEVEN) COPIES, INCLUDING MANUFACTURER SUBMITTAL DATA SHEET (MSDS) OF ALL EQUIPMENT, MATERIALS, DEVICES, ACCESSORIES AND FINISHES AS SPECIFIED BY THE ENGINEERING CONSTRUCTION DOCUMENTS. REVIEW OF EQUIPMENT AND MATERIAL SUBMITTAL SHALL IN NO WAY RELIEVE THECONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH PLANS,SPECIFICATIONS AND CODE REQUIREMENTS. ANY SUBSTITUTIONS SHALL BE PRE-APPROVED BY ARCHITECT AND OWNER AND SHALL BE CONTRACTOR'S RESPONSIBILITY TO INSURE FULL COMPLIANCE WITH THE ORIGINAL DESIGN PER PLANS AND SPECIFICATIONS.

B. MANUFACTURER'S MANUALS:

SUBMIT MANUALS FOR APPROVAL AS INDICATED. MANUALS SHALL INCLUDE OPERATING AND MAINTENANCE INSTRUCTIONS, PARTS LISTS, MANUFACTURER'S AND LOCAL SUPPLIERS ADDRESSES AND PERTINENT DESCRIPTIVE DATA. MANUALS SHALL BE LOOSELEAF BOUND AND INDEXED.

EXISTING CONDITIONS:

A. THE EXTENT AND LOCATION OF EXISTING CONDITIONS AS SHOWN ON PLANS ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY CONTRACTOR. FIELD INVESTIGATION SHALL BE DONE IN SUCH A MANNER AS TO MAINTAIN AND PROTECT EXISTING EQUIPMENT / UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROMPTLY REPAIR AT HIS EXPENSE, ANY AND ALL DAMAGE TO EXISTING MECHANICAL SYSTEMS AND UTILITIES.

PERMITS AND FEES:

A. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND NECESSARY ACCESSORIES (I.E. WIRING, CONTROLS, DEVICES, ETC.) AND SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND ALL OTHER INCIDENTAL COSTS AND SERVICES NECESSARY FOR THE INSTALLING AND TESTING OF A COMPLETE OPERABLE AND SERVICEABLE MECHANICAL SYSTEM.

MANUFACTURER'S WARRANTY:

A. CONTRACTOR SHALL PROVIDE WARRANTY FOR A PERIOD OF (1) ONE YEAR AFTER BUILDING C.O. FOR ALL MECHANICAL SYSTEMS, DUCTWORK, CONTROLS, ACCESSORIES AND ALL OTHER EQUIPMENT, PARTS AND LABOR UNDER THESE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE WARRANTY FOR COMPRESSORS FOR (5) FIVE YEARS. ANY REPAIRS REQUIRING SYSTEM SHUT DOWN WILL BE DONE DURING NONOPERATIONAL PERIODS OR AS AGREED WITH OWNER.

CONTRACTOR'S GUARANTEE:

A. ALL WORK AND MATERIALS TO BE PROVIDED UNDER THESE PLANS AND SPECIFICATIONS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF BENEFICIAL OCCUPANCY.

B. CONTRACTOR SHALL PROVIDE MAINTENANCE AND OPERATION MANUAL ON ALL MECHANICAL EQUIPMENT AND SYSTEMS AND TRAINING TO THE OWNER'S PERSONNEL AS NECESSARY OR REQUIRED FOR PROPER OPERATION.

PART 2 PRODUCTS

MATERIALS:

A. ALL MATERIALS SHALL BE NEW AND OF GOOD QUALITY OF U.S. MANUFACTURING WHENEVER POSSIBLE. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, PRODUCT APPROVALS, RULES AND ORDINANCES. ALL EMPLOYED INSTALLING PROCEDURES, METHODS AND TECHNOLOGIES SHALL CONFORM TO ESTABLISHED INDUSTRY STANDARDS AND GOOD ENGINEERING PRACTICE. ANY DAMAGED EQUIPMENT SHALL BE REPLACED OR RESTORED TO ITS ORIGINAL CONDITION WITH NO ADDITIONAL COST TO THE OWNER.

B. ALL MECHANICAL EQUIPMENT AND MATERIALS SHALL BE RATED FOR THE REQUIRED SERVICE, PRESSURES, TEMPERATURES, VOLTAGE, ETC. AND SHALL BE CERTIFIED AND/OR LISTED WHERE APPLICABLE. PROVIDE ALL NECESSARY ACCESSORIES, CONTROLS, TRANSFORMERS, VALVES, CONNECTIONS, GAUGES, ETC. FOR PROPER OPERATION AND SERVICE.

C. SUBSTITUTIONS MUST BE REQUESTED IN CONFORMANCE WITH GENERAL CONDITIONS PER ARCH. SPECIFICATIONS.

D. ALL HARDWARE AND ACCESSORY FITTINGS SHALL BE OF A TYPE DESIGNED INTENDED OR APPROPRIATE FOR USE AND COMPLEMENT ITEMS WITH WHICH THEY ARE USED AND SHALL HAVE CORROSION PROTECTION SUITABLE FOR ATMOSPHERE IN WHICH THEY ARE INSTALLED. ALL SUCH HARDWARE SHALL BE U.S. STANDARD SIZES.

E. EQUIPMENT OF A SIMILAR NATURE SHALL BE IDENTICAL AND FIT ALLOTTED SPACE PROVIDED.

F. ALL MATERIALS USED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUMS SHALL BE RATED AS SUCH. PROVISIONS SHALL BE MADE TO ALLOW AIR TRANSFER FROM ONE SIDE TO THE OTHER. FIRE DAMPERS OR COMBINATION FIRE-SMOKE DAMPERS AS REQUIRED BY THE LOCAL CODE SHALL PROTECT SUCH TRANSFER DUCTS OR OPENINGS AND SERVICE ACCESS SHALL BE PROVIDED AS NECESSARY.

G. STORE AND PROTECT ALL MATERIALS FROM DAMAGE. MATERIALS SHALL NOT BE STORED DIRECTLY ON GROUND OR FLOOR AND SHALL BE KEPT CLEAN AND DRY, FREE FROM DETERIORATION BY ELEMENTS. DAMAGED MATERIALS SHALL NOT BE INSTALLED.

H. ALL EQUIPMENT AND MATERIALS SHALL BE SET LEVEL, PROPERLY ALIGNED, SECURED FIRMLY IN PLACE AND BOLTED TOGETHER WHERE IN SECTIONS AND INSTALLED COMPLETE.

I. ALL OUTSIDE EXPOSED, VISIBLE MECHANICAL EQUIPMENT AND DEVICES SUCH AS LOUVERS, GRILLES, DUCTWORK, PIPING, ETC. SHALL BE PAINTED TO MATCH SURROUNDING TEXTURES AND COLOR AS REQUIRED BY ARCHITECT AND/OR OWNER. PAINT ALL OUTSIDE EXPOSED MECHANICAL EQUIPMENT WITH CORROSION PROTECTIVE PAINT WHENEVER NECESSARY OR REQUIRED. ALL EXPOSED FASTENERS SHALL BE STAINLESS STEEL OR CADMIUM PLATED. ALL FASTENING DEVICES SHALL BE MADE UP TIGHT.

J. FOLLOW INSTALLATION DIRECTIONS AND RECOMMENDATIONS OF MATERIAL AND EQUIPMENT MANUFACTURERS.

K. MATERIALS DAMAGED DURING INSTALLATION SHALL BE REPAIRED TO A NEW CONDITION OR SHALL BE REPLACED. FINISHES ON EQUIPMENT WHICH HAVE BEEN SCRATCHED OR MARRED SHALL BE TOUCHED UP TO MATCH ORIGINAL FINISH OR SHALL BE COMPLETELY REFINISHED.

L. ALL ENCLOSURES, ACCESS PANELS, CABINETS, FIXTURES AND ALL OTHER EXPOSED EQUIPMENT OR ACCESSORIES SHALL BE FACTORY PAINTED OR FINISHED EXCEPT AS I NDICATED ON DRAWINGS.

M. GROUP MOUNTED ITEMS SHALL BE SIMILAR IN FINISH AND COLOR.

PARTS EXECUTION

GENERAL:

A. CONTRACTOR MUST COMMENCE HIS WORK AS SOON AS BUILDING HAS SUFFICIENTLY ADVANCED IN CONSTRUCTION LAYOUT.

B. LOCATIONS OF EQUIPMENT AND PIPING MAY BE SHOWN ON DRAWINGS IN CERTAIN POSITIONS. CONTRACTOR SHALL BE GUIDED BY ARCHITECTURAL DETAILS AND CONDITIONS EXISTING AT JOB. CORRELATING THIS WORK WITH THAT OF OTHERS AND SHALL CAREFULLY EXAMINE ANY EXISTING CONDITIONS, EXISTING PIPING AND PREMISES AND COMPARE THE CONTRACT DOCUMENTS WITH EXISTING CONDITIONS.

C. LOCATION OF ELECTRICAL OUTLETS, PIPING, DUCTS, CEILING DIFFUSERS, ETC. SHALL BE COORDINATED BEFORE MATERIAL OR EQUIPMENT IS INSTALLED SO THAT THERE WILL BE NO INTERFERENCE. IN CASE ANY INTERFERENCE DEVELOPS, THE ARCHITECT/ ENGINEER WILL DECIDE WHICH EQUIPMENT SHALL BE RELOCATED AT NO COST TO OWNER, REGARDLESS OF WHICH EQUIPMENT WAS INSTALLED FIRST.

D. CONTRACTOR SHALL CHECK ALL ELECTRICAL CONTROL CONNECTIONS OF EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS TO INSURE PROPER OPERATION OF EQUIPMENT.

E. CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ARCHITECT AND ENGINEER.

F. SUBMITTAL OF BID SHALL INDICATE THE CONTRACTOR HAS INCLUDED ALL REQUIRED ALLOWANCE IN HIS BID. NO ALLOWANCE SHALL BE MADE FOR ANY ERROR RESULTING FROM CONTRACTOR'S FAILURE TO VISIT JOB SITE AND TO REVIEW DRAWINGS.

G. LAYOUT: WORK LINES AND ESTABLISHED HEIGHTS SHALL BE IN STRICT ACCORDANCE WITH PLANS AND SPECIFICATIONS. SET ALL SLEEVES, ANCHORS, BOLTS AND/OR INSERTS BEFORE CONCRETE IS POURED.

H. ALL MATERIALS AND LABOR REGARDING SITE WORK, STRUCTURAL STEEL, WEATHER PROOFING, PAINTING WALL AND ROOF OPENINGS, CUTTING, PATCHING, ETC. SHALL BE DONE BY THE GENERAL CONTRACTOR.

I. WATERPROOFING: WHERE WORK MUST PIERCE WATERPROOFING, IT SHALL BE DONE WITH CARE AND AFTER ITEM PIERCING WATERPROOFING HAS BEEN SET IN PLACE, THE OPENING MADE FOR THIS PURPOSE SHALL BE SEALED AND MADE ABSOLUTELY WATERPROOF.

J. BALANCING: ALL SYSTEMS UNDER THIS SECTION SHALL BE FULLY BALANCED BEFORE FINAL ACCEPTANCE TO ACHIEVE OPTIMUM PERFORMANCE CHARACTERISTICS. ALL WATER SYSTEMS SHALL BE FREE FROM WATER HAMMER UPON COMPLETION OF WORK.

K. PROVIDE CONNECTIONS TO ALL EQUIPMENT (INCLUDING KITCHENS) FURNISHED BY OWNER OR OTHER CONTRACTORS, INCLUDING MATERIALS AND NECESSARY APPURTENANCES REQUIRED TO COMPLETE THE INSTALLATION.

L. ALL OPENINGS IN BUILDING STRUCTURES FOR PASSING OF MECHANICAL DUCTWORK, PIPING, ETC. SHALL BE 1/2" LARGER ON ALL SIDES (OR AS REQUIRED FOR FIRE-STOPPING) THAN OUTSIDE DIMENSIONS OF PASSING ELEMENT. INTERSTITIAL VOIDS SHALL BE FILLED WITH FIRE RETARDANT MATERIAL AS MANUFACTURED BY "PYROSAFE". "THERMOFIRE", "3M" OR OTHER APPROVED MANUFACTURER.

M. CONTRACTOR SHALL UNDERCUT DOORS 1/2" (MAX. 150 CFM) TO PROVIDE REQUIRED VENTILATION FOR UTILITY ROOMS, STORAGE ROOMS, ELECTRICAL ROOMS, TOILETS, ETC. WHEN TRANSFER GRILLES OR DUCTS ARE NOT PROVIDED.

HEATING, VENTILATION AND AIR CONDITIONING

PART 1 GENERAL

WORK INCLUDED:

A. GENERAL REQUIREMENTS: THE GENERAL CONDITIONS AND PROVISIONS ARE HEREBY MADE A PART OF THIS SECTION OF THE SPECIFICATIONS.

B. WORK INCLUDED: THIS SECTION IS INTENDED TO DESCRIBE A COMPLETE SYSTEM OF AIR CONDITIONING, VENTILATING AND ALL COMPONENTS THEREOF. SYSTEMS SHALL MEET REQUIREMENTS OF APPLICABLE CODES AND REGULATIONS AND SHALL BE COMPLETE IN EVERY RESPECT.

PROVISIONS:

A.THE FOLLOWING CODES AND REGULATIONS SHALL IN ADDITION TO THOSE LISTED ABOVE, APPLY TO WORK AND SYSTEMS COVERED BY 1. THIS SECTION.

1. NFPA 90A & 90B - AIR CONDITIONING AND VENTILATION SYSTEMS. 2020 ED.
2. NFPA 91 - BLOWER AND EXHAUST SYSTEMS. 2020 ED.
3. NFPA 101 - LIFE SAFETY CODE. 2020 ED.
5. NFPA 703 - FIRE RETARDANT TREATMENTS OF BUILDING MATERIALS.
6. NFPA 255 - BUILDING MATERIALS TEST OF SURFACE BURNING CHARACTERISTICS.
7. MECHANICAL REFRIGERATION CODE.
8. ASTM. E8475 - METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.
9. UL - 723.

B. PROVIDE SMOKE DETECTORS WITH ACCESS DOORS IN ALL SUPPLY AIR DUCTS OF AHU'S AND FANS SERVING A COMMON PLENUM OF 2000 CFM AND ABOVE. PROVIDE ADDITIONAL SMOKE DAMPERS IN SUPPLY AND RETURN AIR DUCTS FOR UNITS SERVING A COMMON PLENUM OF 15000 CFM OR ABOVE. ALL SMOKE DETECTORS SHALL BE BY ONE MANUFACTURER. VOLTAGE AND FIRE ALARM SYSTEM REQUIREMENTS SHALL BE COORDINATED WITH THE RESPECTIVE SUBCONTRACTORS PRIOR TO PURCHASING AND INSTALLATION. THE SMOKE DETECTOR SHALL SHUT DOWN THE ASSOCIATED AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVING THAT COMMON PLENUM OR SPACE, AS REQUIRED, UPON SMOKE DETECTION.

C. PROVIDE TYPE "B" DYNAMIC FIRE DAMPERS WITH CURTAIN BLADES OUT OF THE AIR STREAM, IN ALL DUCTS OR OPENINGS PENETRATING FIRE-RATED WALLS, PARTITIONS, TENANT SEPARATIONS, ROOF ND FLOOR SLABS AND OUTSIDE AIR INTAKES AS REQUIRED. PROVIDE RADIATION DAMPERS IN RATED CEILINGS FOR ALL CEILINGS OPENINGS. PENETRATIONS, FANS, DIFFUSERS, GRILLES, ETC. RATED FOR USE IN THE CEILING ASSEMBLY.

D. ALL THERMOSTATS, TEMPERATURE SENSORS AND HUMIDISTATS SHALL BE INSTALLED AS INDICTED ON PLANS OR AS REQUIRED/ APPROVED BY OWNER AND ENGINEER. ALL THERMOSTATS SHALL BE INSTALLED AS PER THE A.D.A. CODE REQUIREMENTS WHERE APPLICABLE.

E. PROVIDE HIGH EFFICIENCY MOTORS WITH MATCHING NON-FUSIBLE DISCONNECT SWITCH TYPE COMBINATION MOTOR STARTERS (AS COORDINATED WITH ELECTRICAL CONTRACTOR) AS FOLLOWS, UNLESS OTHERWISE RECOMMENDED BY MOTOR OR EQUIPMENT MANUFACTURER:
- ACROSS THE LINE VOLTAGE STARTING BELOW 25 HP
- REDUCED VOLTAGE STARTING FROM 25 HP AND ABOVE
- OVERLOAD PROTECTION - 1/3 HP AND ABOVE FOR ALL PHASES WHERE SPECIFIED. PROVIDE MOTORS WITH MATCHING VARIABLE FREQUENCY DRIVES FOR QUIET OPERATION. ALL STARTERS SHALL HAVE PHASE LOSS AND UNBALANCE PROTECTION.

F. PROVIDE A MIN. OF 3'-0" CLEARANCE IN FRONT OF ALL 120-240 VOLT PANELS AND 4'-0" CLEARANCE IN FRONT OF ANY 480 VOLT PANELS WITH ADEQUATE SIDE CLEARANCE PER NEC REQUIREMENTS.

G. PROVIDE ONE SET OF ADJUSTABLE PULLEYS FOR PRELIMINARY BALANCE FOR ALL BELT DRIVEN AHU'S OR FANS.

H. ALL REQUIRED ELEVATOR SHAFT RELIEFS SHALL COMPLY WITH ANSI A17.1 STANDARD.

I. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED FOR WIND LOADS AND MOUNTING HEIGHTS AS MANDATED BY LOCAL CODE. CURBS SHALL EXTEND MIN. 12" ABOVE FINISHED ROOF.

J. PROVIDE MIN. 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST OPENINGS, EQUIPMENT, VTR'S, ETC. COORDINATE WITH PREVAILING WIND DIRECTION FOR THE DESIGN AREA.

K. ALL PIPING AND DUCTWORK SHALL BE SLEEVED THRU WALLS, BEAMS, SLABS, ETC. AS REQUIRED AND COORDINATED WITH THE STRUCTURAL ENGINEER. REWORK BAR JOIST CROSS BRACING AND PROVIDE NECESSARY TRANSITIONS AS REQUIRED FOR DUCTWORK INSTALLATION.

L. FOR ALL IN-LINE FANS OR EXHAUST FANS PROVIDE BACKDRAFT DAMPERS WITH TIGHT SEAL IF NOT OTHERWISE SPECIFIED ON SCHEDULES AND PLANS.

M. ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS AS SPECIFIED ON SCHEDULES AND PLANS OR AS RECOMMENDED BY MANUFACTURER FOR NORMAL OPERATION WITHIN PRESCRIBED NOISE AND VIBRATION LIMITS.

N. PROVIDE FLEXIBLE CONNECTORS BETWEEN DISTRIBUTION SYSTEM AND AIR OR WATER MOVING EQUIPMENT: AHU'S, FANS, PUMPS, ETC.

O. OUTDOOR INSTALLED EQUIPMENT SHALL COMPLY WITH ALL LOCAL NOISE REGULATIONS AND ORDINANCES. IT SHALL NOT EXCEED A NOISE LEVEL OF 65 DECIBELS AS MEASURED RADIALLY 30 FEET FROM THE EQUIPMENT IN ALL DIRECTIONS. IF REQUIRED, PROVIDE ACOUSTIC INSULATION.

PRODUCT DELIVERY, STORAGE AND HANDLING

A. DELIVERY:
DELIVER PRODUCTS TO JOB SITE IN THEIR ORIGINAL UNOPENED CONTAINERS CLEARLY LABELED WITH THE MANUFACTURER'S NAME AND BRAND DESIGNATION, REFERENCED SPECIFICATION NUMBER, TYPE AND CLASS AS APPLICABLE. AT DELIVERY FOR ALL EQUIPMENT, CONTRACTOR SHALL INSPECT ALL ELEMENTS AT DELIVERY FOR DAMAGE & CONTRACT DOCUMENT CONFORMANCE.

B. STORAGE:
STORE PRODUCTS IN AN APPROVED DRY AREA; PROTECT FROM CONTACT WITH SOIL AND FROM EXPOSURE TO THE ELEMENTS. KEEP PRODUCTS DRY AT ALL TIMES.

C. HANDLING:
HANDLE PRODUCTS IN A MANNER THAT WILL PREVENT BREAKAGE OF CONTAINERS AND DAMAGE TO PRODUCTS.

PART 2 - PRODUCTS

I. DUCT SUPPORTS SHALL BE NOT LESS THAN THE SIZES IN THE FOLLOWING TABLE:

MAXIMUM DUCT DIMENSION	AND SPACING	AND SIZE
1 THRU 8"	8'-0" O.C.	18 GAUGE 1" WIDE
19 THRU 30"	8'-0" O.C.	18 GAUGE 1" WIDE
31 THRU 38"	6'-0" O.C.	1/8X1-1/2"
39 THRU 60"	6'-0" O.C.	3/18 X 1-1/2"
61 THRU 84"	6'-0" O.C.	1/2" ROD W/2.5"X2.5"X.25"
85" AND OVER	-	SUBMIT DETAIL TO ENG.

I. ALL DUCTS OVER 8" IN ANY DIMENSION SHALL BE CROSS BROKEN OR BEADED.

L. FIRE DAMPERS AND FIRE-SMOKE DAMPERS:

PROVIDE NFPA APPROVED DYNAMIC FUSIBLE LINK FIRE DAMPERS WHEREVER SHOWN ON DRAWINGS. FIRE DAMPERS SHALL BE OF TYPE B WITH BLADES OUTSIDE THE AIR STREAM AND SHALL BE IN COMPLIANCE WITH UL STANDARD 555

2. PROVIDE UL 555 AND UL 555S CLASSIFIED MIN. 1-1/2 HR. COMBINATION FIRE-SMOKE DAMPERS. DAMPERS AND ACTUATORS SHALL BE BY A SINGLE ENTITY AND PROVIDED WITH A MIN. 16" SLEEVE, FUSIBLE LINK AND BLADE POSITION INDICATOR.

3. PROVIDE SUITABLE ACCESS TO ALL FIRE DAMPERS. SUITABLE ACCESS SHALL INCLUDE ACCESS DOORS WITH COMPATIBLE AND/OR APPROPRIATE FINISH IN WHICH ACCESS DEVICE IS LOCATED. IN GENERAL ACCESS DOORS SHALL BLEND INTO AND BE AS UNNOTICABLE AS POSSIBLE IN ALL FINAHED SPACES.

M. VOLUME CONTROL DAMPERS:
AT ALL POINTS WHERE BRANCH DUCTS TAKE OFF FROM A MAIN TRUNK DUCT OR WHERE A DUCT DIVIDES, FURNISH AND INSTALL AN ADJUSTABLE SPLITTER DAMPER OF GALVANIZED STEEL. SECURLEY FASTENED TO A 3/8" SQUARE STEEL OPERATING ROD. WHERE INDCATED ON THE DRAWINGS, FURNISH AND INSTALL BUTTERFLY TYPE AND OPPOSED BLADE TYPE MANUAL VOLUME DAMPERS IN BRANCH DUCTS. FURNISH AND INSTALL INDICATING TYPE DAMPER REGULATORS FOR ALL MANUAL VOLUME AND SPLITTER DAMPERS. VOLUME DAMPERS USED WITH AUTOMATIC CONTROLS SHALL BE AS SPECIFIED HEREINAFTER. REFER TO DRAWING KEY NOTES FOR CABLE BALANCING SYSTEM.

DUCTWORK INSULATION

A. INSULATION SHALL BE 1 1/2" THICK BLANKET TYPE AND INSTALLED ON DUCT EXTERIOR. MINIMUM R-VALUE SHALL BE 6.0

B. MANUFACTURERS SHALL BE JOHNS-MANVILLE, OWENS-CORNING, ARMSTRONG OR APPROVED EQUAL.

C. PROVIDE INSULATION OVER CLEAN DRY SURFACES WITH JOINTS FIRMLY BUTTED TOGETHER. FOR PRESIZED GLASS CLOTH OR VAPOR BARRIER JACKETS, LOGITUDINAL LAP SHALL OVERLAP NOT LESS THAN 1-1/2". BUTT JOINTS SHALL BE WRAPPED WITH A 3 INCH WIDE STRIP OF THE SAME MATERIAL AS JACKET.

D. INSULATION SHALL BE AS SPECIFIED HEREIN AND AS PER MANUFACTURER'S RECOMMENDATIONS.

E. INSULATION SHALL NOT BE APPLIED ENTIRE ANGLE SYSTEM HAS BEEN TESTED AND APPROVED.

F. INSULATION SHALL HAVE A FIRE/SMOKE RATING LESS THAN 25/50.

G. VAPOR BARRIER SHALL BE INTACT AND CONTINUOUS.

SHEET METAL DUCTWORK:

A. ALL DUCTWORK OPERATING AT OR BELOW 2" W.G. STATIC PRESSURE, 2000 CFM VELOCITY AND 250°F AIR TEMPERATURE SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL MEETING THE REQUIREMENTS OF THE LATEST EDITION OF THE SMACNA SHEET METAL DUCT CONSTRUCTION STANDARD.

B. FABRICATION AND INSTALLATION OF DUCT AND FITTINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA SHEET METAL DUCT CONSTRUCTION STADARD. FURTHERMORE, CLOSURE SYSTEMS FOR LONGITUDINAL SEAMS AND TRANSVERSE JOINTS SHALL BE IN ACCORDANCE WITH PROCEDURES NECESSARY TO COMPLY WITH SECTION III. CLOSURES.

C. ALL DUCTWORK SHALL BE SINGLE WALL GALVANIZED SHEETMETAL WITH SEALED SEAMS AND JOINTS WITH EXTERNAL BLANKET INSULATION R-6 MIN. THE HVAC CONTRACTOR SHALL PROVIDE ALL SHEETMETAL DUCTWORK, HANGERS, AUX. SUPPORT STEEL, ETC., ALL FLEX DUCT SHALL BE RATED CLASS I, UL-181 LISTED WITH METALLIZED INNER AND OUTER FOIL LINERS, MIN. R-5 INSUALATION. ALL METAL DUCTS SHALL BE FABRICATED IN ACCORDANCE WITH LATEST EDITION OF S.M.A.C.N.A.

D. FIBERGLASS DUCTWORK NOT ALLOWED TO BE USED IN THIS PROJECT.

AIR DISTRIBUTION PRODUCTS:

A. AIR DISTRIBUTION PRODUCTS: GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE PRODUCTS OF ONE MANUFACTURER, SIZES AND PATTERNS INDICATED ON THE DRAWINGS AND SCHEDULES. EQUIVALENT MODELS AND UNITS ARE AS MANUFACTURED BY: TITUS, KRUEGER, TUTTLE & BAILEY, PRICE OR METALAIRE, MEETING THE SAME PERFORMANCE SOUND AND DIFFUSION CHARACTERISTICS. EACH OUTLET TO BE SIZED IN ACCORDANCE WITH MAXIMUM AND MINIMUM AIR VOLUME, THROW, PRESSURE DROP. SOUND (MAXIMUM NC RATING PER SCHEDULE) AND TERMINAL VELOCITY OF THE OUTLET USED. DIFFUSERS, GRILLES AND REGISTERS SHALL BE CONSTRUCTED ENTIRELY OF ALUMINUM WITH CLEAN ACRYLIC LACQUER FINISH (**COLOR SUBJECT TO ARCHITECT'S APPROVAL**).

B. AIR MOTION IN EACH SPACE SHALL NOT BE LESS THAN 20 FPM OR MORE THAN 30 FPM OVER THE ENTIRE RANGE OF SUPPLY AIR TEMPERATURES FROM COOLING TO FULL HEATING.

C. CEILING DIFFUSERS SHALL BE AS SCHEDULED WITH OPPOSED BLADE DAMPER KEY OPERATED THROUGH FACE OF REGISTER OR AS APPROVED WITH FRAME TYPE COMPATIBLE WITH CEILING TYPE.

D. RETURN REGISTERS SHALL BE AS SCHEDULED OR AS APPROVED WITH SINGLE DEFLECTION BLADES AND OPPOSED BLADE DAMPER OPERABLE THRU FACE OF REGISTER. FRAME TYPE COMPATIBLE WITH CEILING TYPE. MINIMUM 70% FREE AREA.

ACCESS DOORS:

A. FURNISH AND INSTALL ACCESS DOORS IN DUCTS AT ALL CONTROLS, FIRE DAMPERS OR OTHER APPARATUS TO PERMIT INSPECTION, OPERATION AND MAINTENANCE. PROVIDE DOUBLE PANEL INSULATED ACCESS DOORS FABRICATED OF MINIMUM 20 GAUGE METAL IN INSULATED DUCTS. PROVIDE SINGLE PANEL DOORS FABRICATED OF MINIMUM 18 GAUGE GALVANIZED METAL IN UNINSULATED DUCTS.

AIR HANDLING UNITS:

A. GENERAL
COOLING PERFORMANCE SHALL BE RATED IN ACCORDANCEWITH ARI TESTING PROCEDURE. AL UNITS SHALL BE FACTORY ASSEMBLED, I NTERNALLY WIRED, FULLY CHARGED WITH R-410A AND 100% RUN TESTED TO CHECK COOLING OPERATION, FAN AND BLOWER ROTATION AND CONTROL SEQUENCE BEFORE LEAVING THE FACTORY.

B. CASING
UNIT CASING SHALL BE CONSTRUCTED OF ZINC COATED, HEAVY GAUGE, GALVANIZED STEEL. ALL COMPONENTS SHALL BE MOUNTED IN RUST RESISTANT STEEL CABINET WITH A PAINTED EXTERIOR. THE INDOOR AIR SECTION SHALL BE COMPLETELY INSULATED WITH FIRE RESISTANT, PERMANENT, ODORLESS GLASS FIBER MATERIAL.

C. FILTERS
ONE INCH, THROWAWAY FILTERS SHALL BE STANDARD ON ALL UNITS.

D. COMPRESSORS
ALL UNITS SHALL BE INVERTER DRIVEN HERMETIC TYPE COMPRESSORS WITH OIL PUMP PROVIDING POSITIVE LUBRICATION TO MOVING PARTS. CRANKCASE HEATER INTERNAL TEMPERATURE AND CURRENT SENSITIVE MOTOR OVERLOADS SHALL HAVE INTERNAL SPRING ISOLATION AND SOUND MUFFLING TO MINIMIZE VIBRATION TRANSMISSION AND NOISE. LOW PRESSURE SWITCHES SHALL BE STANDARD.

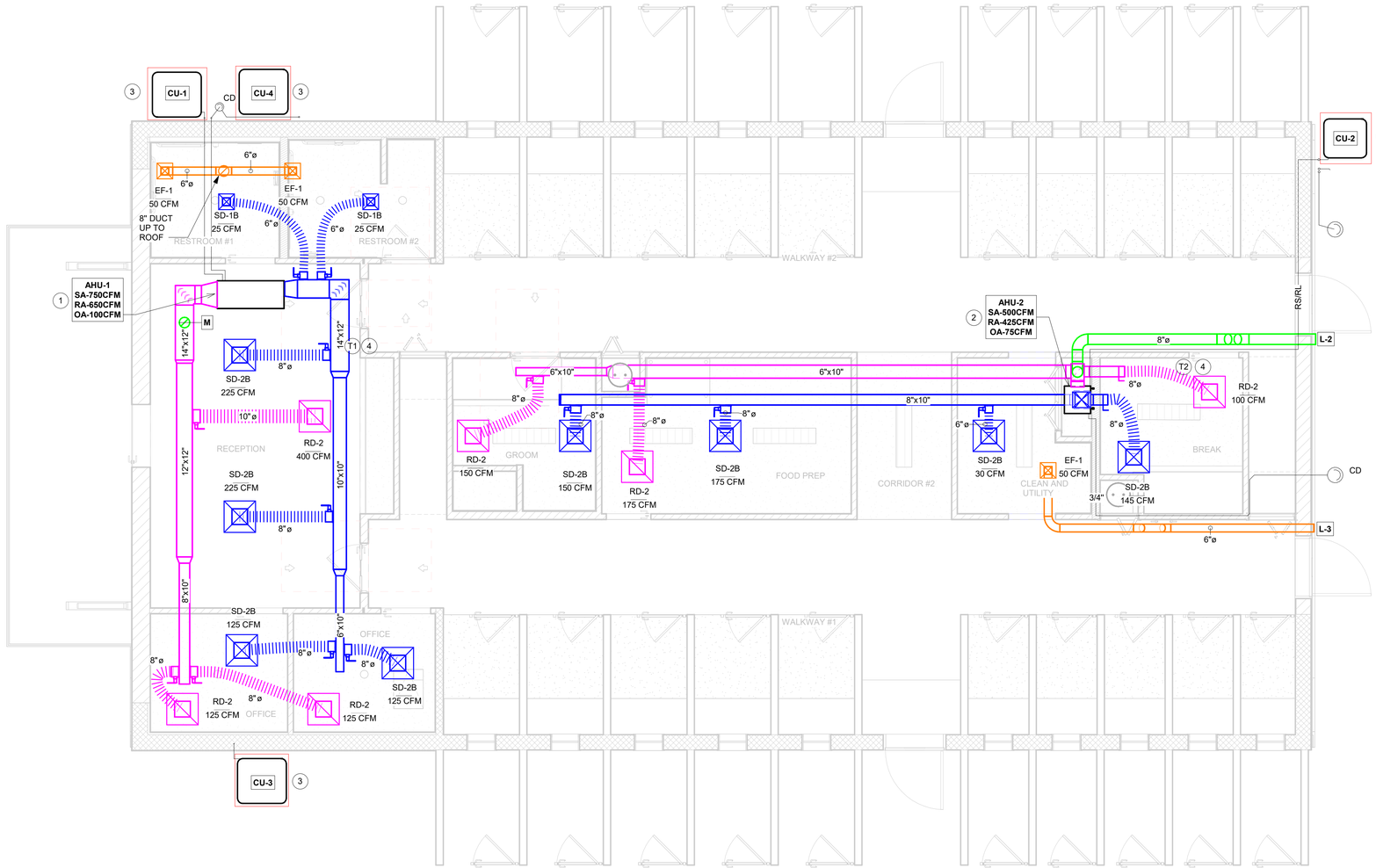
E. REFRIGERANT CIRCUITS SHALL VARY IN FLOW/VOLUME
EACH REFRIGERANT CIRCUIT SHALL HAVE INDEPENDENT THERMAL EXPANSION VALVES, SERVICE PRESSURE PORTS AND REFRIGERANT LINE FILTER DRIERS FACTORY- INSTALLED AS STANDARD. AN ACCESS AREA SHALL BE PROVIDED FOR REPLACEMENT OF SUCTION LINE DRIERS.

F. EVAPORATOR AND CONDENSER COILS
INTERNALLY FINNED COPPER TUBES MECHANICALLY BONDED TO CONFIGURED ALUMINUM PLATE FIN SHALL BE STANDARD. ON ALL MULTIPLE COMPRESSOR MODELS, THE EVAPORATOR COIL SHALL BE INTERTWINED CONFIGURATION OF FULL FACE ACTIVE DESIGN.

G. OUTDOOR FANS
THE OUTDOOR FAN SHALL BE ELECTRONICALLY CONTROLED MOTORS STATICALLY AND DYNAMICALLY BALANCED, DRAW THROUGH IN THE VERTICAL DISCHARGE POSITION. THE FAN MOTORS SHALL BE PERMANENTLY LUBRICATED AND HAVE BUILT-IN THERMAL OVERLOAD PROTECTION.

H. INDOOR FAN
UNITS SHALL HAVE ELECTRONICALLY CONTROLED MOTORS, FC, CENTRIFUGAL FANS WITH ADJUSTABLE MOTOR SHEAVES. ALL MOTORS SHALL BE THERMALLY PROTECTED. OVERSIZED MOTORS WILL BE AVAILABLE FOR HIGH STATIC OPERATIONS.

I. CONTROLS
UNITS SHALL BE COMPLETELY FACTORY WIRED WITH NECESSARY CONTROLS AND TERMINAL BLOCK FOR POWER WIRING. UNITS SHALL PROVIDE AN EXTERNAL LOCATION FOR MOUNTING FUSED DISCONNECT DEVICE. MICRO-PROCESSOR CONTROLS SHALL BE PROVIDED FOR ALL 24 VOLT CONTROL FUNCTIONS AND SHALL PROVIDE ANTI-SHORT CYCLE TIMING AND TIME DELAY BETWEEN COMPRESSORS TO PROVIDE A HIGHER LEVE



1 MECHANICAL DUCTWORK PLAN
1/4" = 1'-0"

HVAC GENERAL NOTES

1.	THESE DRAWINGS WERE DESIGNED TO THE 2023 FBC, MECHANICAL 8TH EDITION.
2.	WHILE THE EOR IS ATTEMPTING TO SHOW ALL EXISTING CONDITIONS, VERIFICATION OF ALL EXISTING CONDITIONS AND NEW WORK INTERACTION TO SUCH SHALL BE THE RESPONSIBILITLIY OF THE BIDDING CONTRACTOR.
3.	PRIOR TO BIDDING, CONTRACTOR SHALL MAKE ITSELF AWARE OF ALL DESIGN SCOPE AND DESIGN INTENT; REVIEW DRAWINGS AND EXISTING SITE FOR DISCREPANCIES, ISSUES, AND QUESTIONS; AND NOTIFY THE EOR IMMEDIATELY FOR ANY DISCREPANCIES OR ISSUES.
4.	THESE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO IMPLY DESIGN INTENT. THESE DRAWINGS ARE NOT INCLUSIVE OF EVERY DETAIL REQUIRED TO COMPLETE THE DESIGN INTENT SCOPE OF WORK. CODE COMPLIANCE, GOOD WORKMANSHIP, INDUSTRY STANDARD OF CARE, AND CONFORMITY TO LOCAL AHJ SHALL BE THE RESPONSIBLITY OF THE BIDDING & INSTALLING CONTRACTOR.
5.	ALL PIPING INSULATION SHALL COMPLY WITH FBC 2023, ENERGY CODE 8TH EDITION.
6.	ALL SHUT-DOWNS, TIE-INS, SAW CUTTING, AND PATCHING SHALL BE SCHEDULED WITH OWNER AND GC.
7.	M.C. SHALL FURNISH AND INSTALL NEW 7-DAY PROGRAMMABLE T-STATS TO ALL AHU'S. M.C. SHALL VERIFY MAKE, MODEL, AND COMPATIBILITY WITH T-STATS PRIOR TO ORDERING. COORDINATE FINAL LOCATIONS W/ TENANT.
8.	ALL SUPPLY AIR, RETURN AIR, EXHAUST AIR DIFFUSERS/REGISTERS, AND GRILLES SHALL HAVE BALANCE DAMPERS INSTALLED IN RUN OUT DUCTING OR AT THE THROAT. BALANCE DIFFUSERS TO CFM'S SHOWN ON THESE PLANS.
9.	ALL 90 DEGREE ELBOWS SHALL HAVE INTEGRAL TURNING VANES.
10.	SHEET METAL / RIGID DUCTWORK TO BE USED. DUCTBOARD TO BE AN ALTERNATIVE IF REQUESTED BY OWNER.
11.	ALL DUCTWORK SHALL BE CONSTRUCTED TO WITHSTAND 2" WATER COLUMN PRESSURE. DUCTWORK SHALL BE FLEX DUCT FOR RUN-OUT DUCTS TO TERMINALS SHEET METAL FOR MAINS AND TRUNK LINES.
12.	ALL DUCTWORK SHALL BE BUILT AND INSTALLED TO SMACNA STANDARDS AND HUNG & SUPPORTED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AS WELL AS BEST PRACTICES. FLEXIBLE DUCTWORK SHALL BE INSTALLED AND HUNG AS TO PREVENT BENDS, KINKS, AND SAGS IN DUCTWORK BETWEEN RIGID DUCTS AND AIR TERMINALS.
13.	NONMETALLIC DUCTS SHALL BE CONSTRUCTED WITH CLASS 0 OR CLASS 1 DUCT MATERIAL AND SHALL COMPLY WITH UL181.
14.	FLEX DUCT SHALL BE THERMAFLEX EVERCLEAN OR SIMMILAR, AND SHEET METAL SHALL BE PER M-3 GAUGE AND SIZING. ALL LAPS AND SEALING SHALL BE MECHANICALLY FASTENED FOR SHEET METAL. ALL LEAKAGE SHALL BE LESS THAN 2.5% OF TOTALAIR FLOW.
15.	ALL OUTDOOR AIR DUCTS SHALL BE EQUIPPED WITH MOTORIZED OUTDOOR AIR DAMPERS. MOTORIZED OUTDOOR AIR DAMPERS SHALL BE INTERLOCKED WITH EF'S TO OPERATE WHEN EF'S ARE ENERGIZED.

HVAC DUCT LEGEND

SUPPLY AIR	SA
DEMO SUPPLY AIR	DSA
EXISITNG SUPPLY AIR	(E)SA
RETURN AIR	RA
DEMO RETURN AIR	DRA
EXISTING RETURN AIR	(E)RA
EXHAUST AIR	EA
DEMO EXHAUST AIR	DEA
EXISTING EXHAUST AIR	(E)EA
OUTDOOR AIR	OA
EXISTING OUTDOOR AIR	(E)OA
DEMO OUTDOOR AIR	DOA

MECHANICAL KEY NOTES.

NO.	NOTE.
1.	INSTALL HORIZONTAL AIR HANDLER ABOVE CEILING WITH ACCESS. SUPPORT UNITS AS REQUIRED. REFER TO AHU SCHEDULE FOR FURTHER INFORMATION
2.	INSTALL NEW VERTICAL AHU ON 30" HIGH FRAME ATTACHED TO FLOOR. REFER TO SCHEDULE FOR ADDITIONAL SPECIFICATIONS.
3.	INSTALL OUTDOOR CONDENSING UNIT ON 4" THICK CONCRETE BASE PADS. PROVIDE MANUFACTURER'S RECOMMENDED SPACING FOR AIRFLOWS & MAINTENANCE SEE DETAIL FOR EQUIPMENT HOLD- DOWN (TYP)
4.	TYPICAL ZONE SENSOR/THERMOSTAT. MOUNT AT 48"AFF.COORDINATE WITH OWNER/ARCHITECT FOR EXHACT LOCATION. DO NOT DIRECT AIRFLOW AT WALL SENSOR/THERMOSTAT.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY Ralph C. Morrone PE USING DIGITAL SIGNATURE AND DATE WITH THIRD PARTY VERIFICATION. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED.

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EXECUTIVE ENGINEERING
INCORPORATED
Engineering Your Future
3689 TAMPA RD TAMPA, FL 34677 | (813) 943-2602 | ralph@exec-engineering.com

REVISIONS

NO.	DESCRIPTION	DATE

CLIENT NAME: SHARP DESIGN STUDIO
PROJECT NAME: PETROPOLIS PET CENTAR
PROJECT ADDRESS: .

RALPH C MORRONE LICENSE No. 79993 STATE OF FLORIDA PROFESSIONAL ENGINEER

PROJECT STATUS
PROGRESS SET

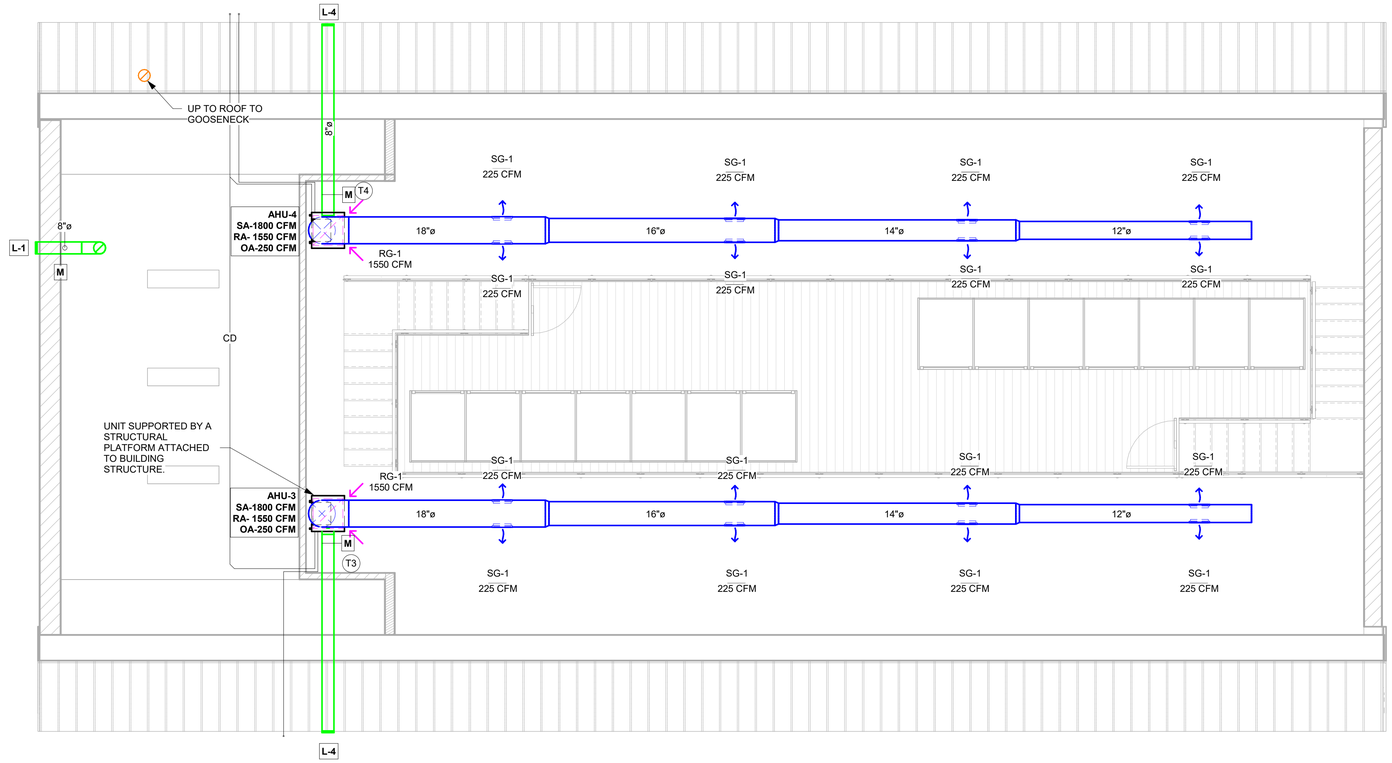
PROJECT NUMBER
25-156

ISSUE DATE
09/08/2025

MECHANICAL DUCTWORK PLAN

DESIGNED BY: BS
CHECKED BY: RCM

M100



1 MEZZANINE PLAN

1/4" = 1'-0"

ROOF PLAN GENERAL NOTES

1.	PENETRATIONS IN ROOF MEMBRANE & FLASHING SHALL ONLY BE MADE AS INDICATED ON THE DRAWINGS OR SPECIFICATIONS
2.	ALL SHEET METAL FLASHING SHALL BE 24 GAUGE MINIMUM & ALL SEAMS TO BE SOLDERED.
3.	REFER TO PROJECT SPECIFICATION MANUAL FOR SEALANT SPECIFICATIONS.
4.	ALL ROOFTOP EQUIPMENT SHALL BE LOCATED A MINIMUM OF 10'-0" FROM BUILDING EDGE U.O.N.
5.	ARCHITECT TO PROVIDE A PERMANENT AND APPROPRIATE MEANS OF ACCESS FOR MAINTENANCE OF ALL ROOFTOP EQUIPMENT. SEE ARCH. DRAWINGS FOR EXACT LOCATION AND TYPE OF ACCESS.
6.	ALL ROOFTOP EQUIPMENT SHALL BE PERMANENETLY SECURED TO ROOF CURBS OR PIPE STANDS. THE ROOF CURBS OR PIPE STANDS SHALL BE PERMANENTLY SECURED TO THE BUILDING STRUCTURE TO RESIST A MINIMUM WIND VELOCITY AS SPECIFIED ON STRUCTURAL DRAWINGS. REFER TO DETAILS.
7.	ALL OUTDOOR AIR INTAKES SHALL BE KEPT A MINIMUM DISTANCE OF 10'-0" FROM ANY PLUMBING VENTS OR EXHAUST AIR DISCHARGE POINTS.
8.	PVC CONDENSATE LINES SHALL BE ROUTED TO ROOF DRAINS OR ROOF SCUPPER. SLOPE DRAIN DOWN TOWARDS SCUPPER OR ROOF DRAIN A MINIMUM OF 1/8" PER FT. PROVIDE PIPE STANDS AT NO GREATER THAN 8 FT. O.C., U.O.N. PIPE STANDS SHALL BE SIMILAR TO "PIPE-PRO" OR APPROVED EQUAL.

HVAC DUCT LEGEND

SUPPLY AIR	SA
DEMO SUPPLY AIR	DSA
EXISITNG SUPPLY AIR	(E)SA
RETURN AIR	RA
DEMO RETURN AIR	DRA
EXISTING RETURN AIR	(E)RA
EXHAUST AIR	EA
DEMO EXHAUST AIR	DEA
EXISTING EXHAUST AIR	(E)EA
OUTDOOR AIR	OA
EXISTING OUTDOOR AIR	(E)OA
DEMO OUTDOOR AIR	DOA

MECHANICAL KEY NOTES

NUMBER	NOTE
1.	UNIT TO BE SUPPORTED BY A STRUCTURAL PLATFORM ATTACHED TO THE BUILDING STRUCTURE. COORDINATE EXACT INSTALLATION HEIGHT OF THE UNIT IN THE FIELD WITH THE ARCHITECTOWNER.
2.	TYPICAL ZONE SENSOR/THERMOSTAT. MOUNT AT 48"AFF.COORDINATE WITH OWNER/ARCHITECT FOR EXHACT LOCATION. DO NOT DIRECT AIRFLOW AT WALL SENSOR/THERMOSTAT.

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PROJECT STATUS
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PROJECT NUMBER
25-156

ISSUE DATE
09/08/2025

MEZZANINE PLAN

DESIGNED BY: BS
CHECKED BY: RCM

M200

OUTDOOR AIR CALCULATIONS

SERVICE	ROOM NAME	AREA (SQ.FT.)	CFM PER SQ.FT.	CFM 1	OCCUPANT DENSITY	SF PER PERSON	CODE MAX PEOPLE	ACTUAL PEOPLE	CFM PER PERSON	CFM 2	TOTAL OA CFM	TOTAL EA CFM
AHU-1	RESTROOM #1	58										50
AHU-1	RESTROOM # 2	83										50
AHU-1	RECEPTION	326	0.06	19.56	30	33.333333	9.78	3	5	15	34.56	
AHU-1	OFFICE # 1	74	0.06	4.44	5	200	0.37	1	5	5	9.44	
AHU-1	OFFICE # 1	70	0.06	4.2	5	200	0.35	1	5	5	9.2	
AHU-1		611						5			53.2	100
AHU-2	GROOM	89	0.18	16.02	10	100	0.89	1	7.5	7.5	23.52	
AHU-2	FOOD PREP	158	0.12	18.96	5	200	0.79	1	5	5	23.96	
AHU-2	UTILITY	73	0.06	4.38	0			0	0	0	4.38	
AHU-2	BREAK	94	0.06	5.64	5	200	0.47	3	5	15	20.64	
AHU-2		414						5			72.5	0
AHU-3	WALKWAY # 1	413	0.18	74.34	10	100	4.13	2	7.5	15	89.34	
AHU-3	WALKWAY # 2	413	0.18	74.34	10	100	4.13	2	7.5	15	89.34	
AHU-3	MEZZANINE	306	0.18	55.08	10	100	3.06	2	7.5	15	70.08	
AHU-3		1132						6			248.76	0
AHU-4	WALKWAY # 1	413	0.18	74.34	10	100	4.13	2	7.5	15	89.34	
AHU-4	WALKWAY # 2	413	0.18	74.34	10	100	4.13	2	7.5	15	89.34	
AHU-4	MEZZANINE	306	0.18	55.08	10	100	3.06	2	7.5	15	70.08	
AHU-4		1132						6			248.76	0

AIR BALANCE SCHEDULE

UNIT	SUPPLY AIR	RETURN AIR	OUTDOOR AIR	EXHAUST AIR	AREA SERVED
AHU-1	750	650	100		
AHU-2	500	75	425		
AHU-3	1800	1550	250		
AHU-4	1800	1550	250		
EF-1				150	
TOTALS	4850	3825	1025	150	

EXHAUST FAN SCHEDULE

EQUIP TAG	SERVICE	LOCATION	CFM	STATIC PRESSURE (IN. W.G.)	ELECTRICAL INFORMATION				MANUFACTURER	MODEL	OPTIONS / ACCESSORIES
					MCA	MOCP	RPM	V / PH / CY			
EF-1	RESTROOM	CEILING	50	0.33	0.2	15	900	115 / 1 / 60	GREENHECK	SP-B80	
NOTES: EXHAUST FAN SHALL RUN CONTINUOUS DURING OCCUPIED PERIODS. T'STAT SHALL CONTROL OCCUPANCY FOR AHU's AND EF.											

LOUVER SCHEDULE

EQUIP TAG	CFM	SERVICE	WIDTH	HEIGHT	WALL THICKNESS	MATERIAL	SCREEN	MANUFACTURER	MODEL	OPTIONS / ACCESSORIES
L-1	100	AHU-1	14	10	8	ALUMINIUM		GREENHECK	EHH-601DE	
L-2	75	AHU-2	12	10	8	ALUMINIUM		GREENHECK	EHH-601DE	
L-3	50	EF-1	12	8	8	ALUMINIUM		GREENHECK	EHH-601DE	
L-4	250	AHU-3 / 4	12	16	8	ALUMINIUM		GREENHECK	ESD-635DE	
NOTES: COLOR BY ARCH/GC ; LOUVERS SHALL BE AMCA 540 & AMCA 550 CERTIFIED.										

AIR TERMINAL SCHEDULE (COMMERCIAL)

SD - SUPPLY DIFFUSER / SG - SUPPLY GRILLE RD - RETURN DIFFUSER / RG - RETURN GRILLE EG - EXHAUST GRILLE

EQUIP. TAG	SYSTEM	TYPE	THROAT	CFM	SIZE	MANUFACTURER & MODEL	FINISH
RD-2							
RD-2	RETURN	PERFORATED	6"Ø	75 - 125	24" x 24"	GREENHECK XG-7000R	WHITE ACRYLIC
RD-2	RETURN	PERFORATED	8"Ø	150 - 225	24" x 24"	GREENHECK XG-7000R	WHITE ACRYLIC
RD-2	RETURN	PERFORATED	10"Ø	250 - 375	24" x 24"	GREENHECK XG-7000R	WHITE ACRYLIC
RD-2	RETURN	PERFORATED	12"Ø	400 - 550	24" x 24"	GREENHECK XG-7000R	WHITE ACRYLIC
RG-1							
RG-1	RETURN	GRILLE	DUCT SIZE	1550	24"x18"	GREENHECK RD41/OBDA	WHITE ACRYLIC
SD-1B							
SD-1B	SUPPLY	CONE	4"Ø	0 - 50	12" x 12"	GREENHECK CDS-AL	WHITE ACRYLIC
SD-2B							
SD-2B	SUPPLY	CONE	6"Ø	50 - 125	24" x 24"	GREENHECK CDS-AL	WHITE ACRYLIC
SD-2B	SUPPLY	CONE	8"Ø	150 - 225	24" x 24"	GREENHECK CDS-AL	WHITE ACRYLIC
SD-2B	SUPPLY	CONE	10"Ø	250 - 375	24" x 24"	GREENHECK CDS-AL	WHITE ACRYLIC
SD-2B	SUPPLY	CONE	12"Ø	400 - 550	24" x 24"	GREENHECK CDS-AL	WHITE ACRYLIC
SG-1							
SG-1	SUPPLY	SPIRAL DUCT	DUCT SIZE	225	12"x6"	GREENHECK SD42	WHITE ACRYLIC
NOTE: UNLESS OTHERWISE NOTED, ALL SIZES ARE THROAT/CORE AREA. NOT EDGE TO EDGE SIZES.							

MINI SPLIT SYSTEM SCHEDULE

AIR HANDLING UNIT TAG	-	AHU-1	AHU-2
ARRANGEMENT		MULTI-POSITIONAL	MULTI-POSITIONAL
DX COOLING COIL			
LOCATION	-	BEFORE FAN	BEFORE FAN
NOMINAL TONNAGE	TONS	2.5	1.5
TOTAL CAPACITY	BTUH	30,000	18,000
ENT. AIR TEMP (DB/WB)	DEG F/DEG F	77.6/65.2	77.9/65.5
LVG. AIR TEMP (DB/WB)	DEG F/DEG F	55/55	55/55
COOLING COIL (MAX/MAX)	ROWS/FINS PER INCH	3 / 18	3 / 18
COOLING COIL MAX FACE VELOCITY	FPM	500	500
HEAT PUMP SYSTEM			
TOTAL CAPACITY	BTUH	34,000	20,000
SUPPLY AIR FLOW	CFM	750	500
RETURN AIR FLOW	CFM	650	425
OUTSIDE AIR FLOW	CFM	100	75
FILTRATION	MERV	8	8
FILTRATION MAX FACE VELOCITY	FPM	500	500
EXTERNAL STATIC PRESSURE	IN WG	0.5	0.5
TOTAL STATIC PRESSURE	IN WG	-	-
DRIVE TYPE	-	DIRECT - ECM	DIRECT - ECM
EVAPORATOR FAN TYPE	-	FC	FC
EVAPORATOR FAN MOTOR	HP/BHP	-	-
UNIT MCA	AMPS	POWERED BY ODU	POWERED BY ODU
UNIT MOCP	AMPS	POWERED BY ODU	POWERED BY ODU
VOLTAGE	V/PH/HZ	208/1/60	208/1/60
WEIGHT	LBS	146	116
MANUFACTURER	-	LG	LG
MODEL	-	KNSLA301A	KNSLB181A
AHU NOTES	-	ALL	ALL

AHU NOTES:
1. POTENTIAL BIDDING MANUFACTURERS SHALL PROVIDE IN THEIR SUBMITTAL A COPY OF THIS SCHEDULE WITH THEIR THEIR PROPOSED VALUES FOR REVIEW BY ENGINEER. SUBMITTAL SHALL BE REJECTED IF THIS SCHEDULE IS MISSING CONTACT ENGINEER FOR BLANK SCHEDULE.
2. PROVIDE HEAT PUMP SYSTEM
3. PROVIDE SINGLE POINT POWER CONNECTION.
4. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
5. PROVIDE PROGRAMMABLE THERMOSTAT/HUMIDISTAT, 24 HOUR/7-DAY, OCC/UNOCC.
6. PROVIDE SINGLE WALL UNIT.
7. PROVIDE IAQ TYPE DRAIN PAN, POSITIVELY SLOPED IN TWO DIRECTIONS.

MINI SPLIT CONDENSING UNIT TAG	-	CU-1	CU-2
NOMINAL TONNAGE	TONS	2.5	1.5
NO. OF COMPRESSORS	-	1	1
MIN. NO. STAGES OF COOLING	-	VAR	VAR
NO. OF CONDENSER FANS	-	1	1
EER2	-	13.5	13.5
SEER2	-	18.2	17.5
HSPF2	-	9.8	10
REFRIGERANT TYPE	-	R-32	R-32
UNIT MCA	AMPS	32	16
UNIT MOCP	AMPS	35	25
VOLTAGE	V/PH/HZ	208/1/60	208/1/60
WEIGHT	LBS	190.2	136
MANUFACTURER	-	LG	LG
MODEL	-	KUSXA301A	KUSXB181A
CU NOTES	-	ALL	ALL

CU NOTES:
1. POTENTIAL BIDDING MANUFACTURERS SHALL PROVIDE IN THEIR SUBMITTAL A COPY OF THIS SCHEDULE WITH THEIR THEIR PROPOSED VALUES FOR REVIEW BY ENGINEER. SUBMITTAL SHALL BE REJECTED IF THIS SCHEDULE IS MISSING CONTACT ENGINEER FOR BLANK SCHEDULE.
2. PROVIDE SINGLE POINT POWER CONNECTION.
3. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
4. MANUFACTURER TO REVIEW REFRIGERANT PIPING DISTANCE REQUIREMENTS AND SIZE PIPING AND ACCESSORIES AS REQUIRED FOR LINE LENGTH. REDUCE EQUIPMENT CAPACITIES AS MAY BE REQUIRED.
5. PLEASE CONTACT MATTHEW REEVES WITH SLADE ROSS, INC. FOR ANY EQUIPMENT QUESTIONS OR PROPOSALS AT (904)-591-0005 OR MREEVES@SLADEROSSINC.COM.

DIRECT EXPANSION SPLIT SYSTEM SCHEDULE

AIR HANDLING UNIT TAG	-	AHU-3	AHU-4
ARRANGEMENT		MULTI-POSITION	MULTI-POSITION
DX COOLING COIL			
LOCATION	-	BEFORE FAN	BEFORE FAN
NOMINAL TONNAGE	TONS	5	5
TOTAL CAPACITY	BTUH	58,300	58,300
SENSIBLE CAPACITY	BTUH	42,900	42,900
LATENT CAPACITY	BTUH	15,400	15,400
ENT. AIR TEMP (DB/WB)	DEG F/DEG F	77.7/65.3	77.7/65.3
LVG. AIR TEMP (DB/WB)	DEG F/DEG F	54.7/54.1	54.7/54.1
COOLING COIL (MAX/MAX	ROWS/FINS PER INCH	3/14	3/14
COOLING COIL MAX FACE VELOCITY	FPM	500	500
ELECTRIC STRIP HEATER			
LOCATION	-	AFTER FAN	AFTER FAN
TOTAL CAPACITY	KW/STEPS	9.4 / 1	9.4 / 1
ENT. AIR TEMP (DB)	DEG F	70	70
LVG. AIR TEMP (DB)	DEG F	86.5	86.5
SUPPLY AIR FLOW	CFM	1,800	1,800
RETURN AIR FLOW	CFM	1,550	1,550
OUTSIDE AIR FLOW	CFM	250	250
FILTRATION	IN. / MERV	2 IN. / 8	2 IN. / 8
FILTRATION MAX FACE VELOCITY	FPM	500	500
EXTERNAL STATIC PRESSURE	IN WG	0.5	0.5
TOTAL STATIC PRESSURE	IN WG	0.5	0.5
DRIVE TYPE	-	DIRECT - ECM	DIRECT - ECM
EVAPORATOR FAN TYPE	-	PLENUM	PLENUM
EVAPORATOR FAN MOTOR	HP/BHP	1.0/1.0	1.0/1.0
UNIT MCA	AMPS	10	10
UNIT MOCP	AMPS	15	15
VOLTAGE	V/PH/HZ	208/3/60	208/3/60
WEIGHT	LBS	199	199
MANUFACTURER	-	LENNOX	LENNOX
MODEL	-	CBK48MVT-060-233	CBK48MVT-060-233
AHU NOTES	-	ALL	ALL

AHU NOTES:
1. POTENTIAL BIDDING MANUFACTURERS SHALL PROVIDE IN THEIR SUBMITTAL A COPY OF THIS SCHEDULE WITH THEIR PROPOSED VALUES FOR REVIEW BY ENGINEER. SUBMITTAL SHALL BE REJECTED IF THIS SCHEDULE IS MISSING CONTACT ENGINEER FOR BLANK SCHEDULE.
2. PROVIDE ELECTRIC HEAT.
3. PROVIDE SINGLE POINT POWER CONNECTION.
4. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
5. PROVIDE PROGRAMMABLE THERMOSTAT/HUMIDISTAT, 24 HOUR/7-DAY, OCC/UNOCC.
6. PROVIDE SINGLE WALL UNIT.
7. PROVIDE LENNOX EDA REHEAT COIL FOR HUMDITY CONTROLS. THIRD PARTY MODIFICATIONS ARE NOT ACCEPTABLE.
8. PROVIDE IAQ TYPE DRAIN PAN, POSITIVELY SLOPED IN TWO DIRECTIONS.
9. PROVIDE VARIABLE SPEED AIR HANDLER.

CONDENSING UNIT TAG	-	CU-1	CU-2
NOMINAL TONNAGE	TONS	5	5
NO. OF COMPRESSORS	-	1	1
MIN. NO. STAGES OF COOLING	-	2	2
NO. OF CONDENSER FANS	-	1	1
EER2	-	11.5	11.5
SEER2	-	15.2	15.2
REFRIGERANT TYPE	-	R-454B	R-454B
UNIT MCA	AMPS	23	23
UNIT MOCP	AMPS	40	40
VOLTAGE	V/PH/HZ	208/3/60	208/3/60
WEIGHT	LBS	246	246
MANUFACTURER	-	LENNOX	LENNOX
MODEL	-	ML17KC2-060-233	ML17KC2-060-233
CU NOTES	-	ALL	ALL

CU NOTES:
1. POTENTIAL BIDDING MANUFACTURERS SHALL PROVIDE IN THEIR SUBMITTAL A COPY OF THIS SCHEDULE WITH THEIR THEIR PROPOSED VALUES FOR REVIEW BY ENGINEER. SUBMITTAL SHALL BE REJECTED IF THIS SCHEDULE IS MISSING CONTACT ENGINEER FOR BLANK SCHEDULE.
2. PROVIDE SINGLE POINT POWER CONNECTION.
3. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
4. MANUFACTURER TO REVIEW REFRIGERANT PIPING DISTANCE REQUIREMENTS AND SIZE PIPING AND ACCESSORIES AS REQUIRED FOR LINE LENGTH. REDUCE EQUIPMENT CAPACITIES AS MAY BE REQUIRED.
5. PROVIDE 2-STAGE COMPRESSOR.
6. PLEASE CONTACT MATTHEW REEVES WITH SLADE ROSS, INC. FOR ANY EQUIPMENT QUESTIONS OR PROPOSALS AT (904)-591-0005 OR MREEVES@SLADEROSSINC.COM.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY Ralph C. Morrone PE USING DIGITAL SIGNATURE AND DATE WITH THIRD PARTY VERIFICATION. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED.

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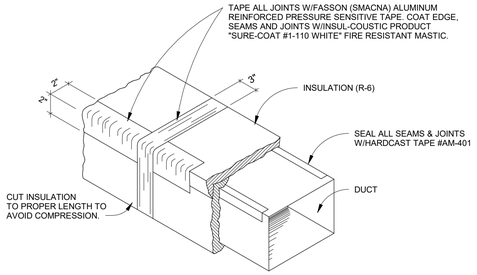
PROJECT NUMBER
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ISSUE DATE
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MECHANICAL SCHEDULES

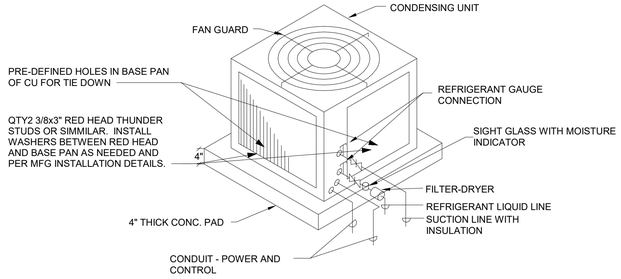
DESIGNED BY: BS
CHECKED BY: RCM

M300



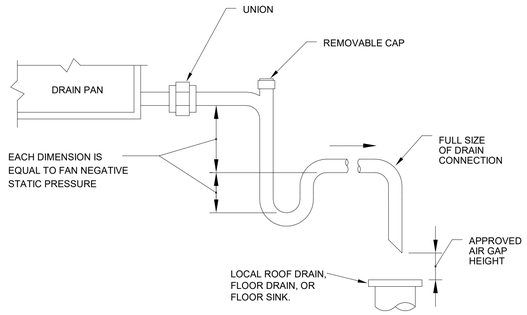
1 DUCT INSULATION DETAIL

NOT TO SCALE



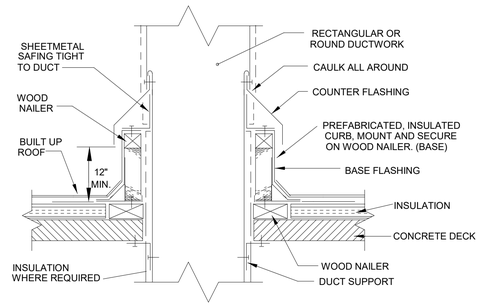
5 CONDENSING UNIT TIE DOWN DETAIL (CONCRETE PAD)

1/4" = 1'-0"



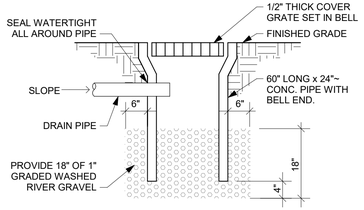
2 CONDENSATE DRAIN P-TRAP DETAIL

NOT TO SCALE



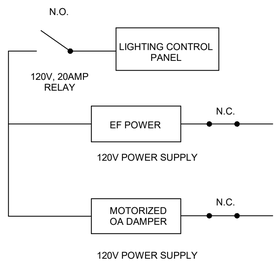
8 DUCT PENETRATION THRU ROOF DETAIL

NOT TO SCALE



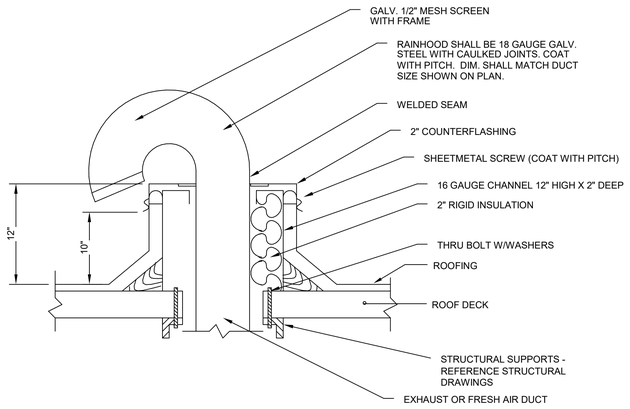
3 CONDENSATE DRY WELL DETAIL

NOT TO SCALE



6 EF & MOTORIZED OA DAMPER CONTROL DETAIL

NOT TO SCALE



4 ROOF JACK DETAIL

NOT TO SCALE

MECHANICAL DUCTWORK LEGEND

	EXHAUST FAN - ROOF MOUNTED
	SUPPLY OR OUTDOOR AIR DUCT RISER
	RETURN AIR DUCT RISER
	VOLUME DAMPER
	90° RADIUS ELBOW
	90° ELBOW W/ TURNING VANES
FD	FIRE DAMPER
SD	SMOKE DAMPER
SFD	SMOKE/FIRE DAMPER
EDH	ELECTRIC DUCT HEATER
BDD	BACKDRAFT DAMPER
	SUPPLY AIR DIFFUSER WITH OBVD
	RETURN AIR GRILLE WITH OBVD
	EXHAUST AIR GRILLE WITH OBVD
OBVD	OPPOSED BLADE VOLUME DAMPER
	DUCT MOUNTED SMOKE DETECTOR
T	THERMOSTAT
RS	ROOM SENSOR
H	HUMIDISTAT
	POINT OF CONNECTION - NEW TO EXISTING
	TERMINATION POINT OF DEMOLITION
	LOUVER - PLAN VIEW
	OPPOSED BLADE VOLUME DAMPER - MANUAL
M	OPPOSED BLADE VOLUME DAMPER - MOTORIZED

ABBREVIATIONS

A	AMPS
AC	AIR CONDITION (ER)
AD	AIR DEVICE
ALUM.	ALUMINUM
BHP	BRAKE HORSEPOWER
B.O.L.	BOTTOM OF LOUVER
BTUH	BRITISH THERMAL UNIT PER HOUR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CO	CARBON MONOXIDE
CU	CONDENSING UNIT
CV	CONSTANT VOLUME
DA	DAMPER ACTUATOR
DB	DRY BULB
DMSD	DUCT MOUNTED SMOKE DETECTOR
DU	DOOR UNDERCUT
EA	EXHAUST AIR
EA.	EACH
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EXFILT.	EXFILTRATION
EFD	EXISTING FIRE DAMPER
FIN. FLR.	FINISHED FLOOR
FLA	FULL LOAD AMPS
GA	GAUGE
HP	HORSEPOWER
INWC	INCHES OF WATER COLUMN
JB	JUNCTION BOX
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LRA	LOCKED ROTOR AMPS
MCA	MINIMUM CIRCUIT AMPS
MFR.	MANUFACTURER
MOCP	MAXIMUM OVER-CURRENT PROTECTION
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NO.	NUMBER
N.T.S.	NOT TO SCALE
OA	OUTDOOR AIR
OAU	OUTDOOR AIR UNIT
OBVD	OPPOSED BLADE VOLUME DAMPER
O.C.	ON CENTER
PPM	PARTS PER MILLION
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RLA	RATED LOAD AMPS
RPM	REVOLUTION PER MINUTE
RS	ROOM SENSOR
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
T.O.L.	TOP OF LOUVER
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
V	VOLTS
VAV	VARIABLE AIR VOLUME
W	WATTS
WB	WET BULB

DUCT CONSTRUCTION MINIMUM SHEET METAL THICKNESSES

RECTANGULAR DUCTS

MAXIMUM SIZE (INCHES)	STEEL (MINIMUM THICKNESS, NOMINAL)	ALUMINUM (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.022 INCH (26 GAGE, GALV.)	0.020 INCH (NO. 24 B&S GAGE)
13 THROUGH 30	0.028 INCH (24 GAGE, GALV.)	0.025 INCH (NO. 22 B&S GAGE)
31 THROUGH 54	0.034 INCH (22 GAGE, GALV.)	0.032 INCH (NO. 20 B&S GAGE)
55 THROUGH 84	0.040 INCH (20 GAGE, GALV.)	0.040 INCH (NO. 18 B&S GAGE)
OVER 84	0.052 INCH (18 GAGE, GALV.)	0.051 INCH (NO. 16 B&S GAGE)

ROUND DUCTS

MAXIMUM SIZE (INCHES)	SPIRAL SEAM DUCT STEEL (MINIMUM THICKNESS, NOMINAL)	LONGITUDINAL SEAM DUCT STEEL (MINIMUM THICKNESS, NOMINAL)	FITTINGS STEEL (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.019 INCH (28 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)
13 THROUGH 18	0.022 INCH (26 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)
19 THROUGH 28	0.028 INCH (24 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)
29 THROUGH 36	0.034 INCH (22 GAGE, GALV.)	0.040 INCH (20 GAGE, GALV.)	0.040 INCH (20 GAGE, GALV.)
37 THROUGH 52	0.040 INCH (20 GAGE, GALV.)	0.052 INCH (18 GAGE, GALV.)	0.052 INCH (18 GAGE, GALV.)

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PROJECT NAME: PETROPOLIS PET CENTAR
PROJECT ADDRESS:

RALPH C MORRONE LICENSE No. 79993 STATE OF FLORIDA PROFESSIONAL ENGINEER

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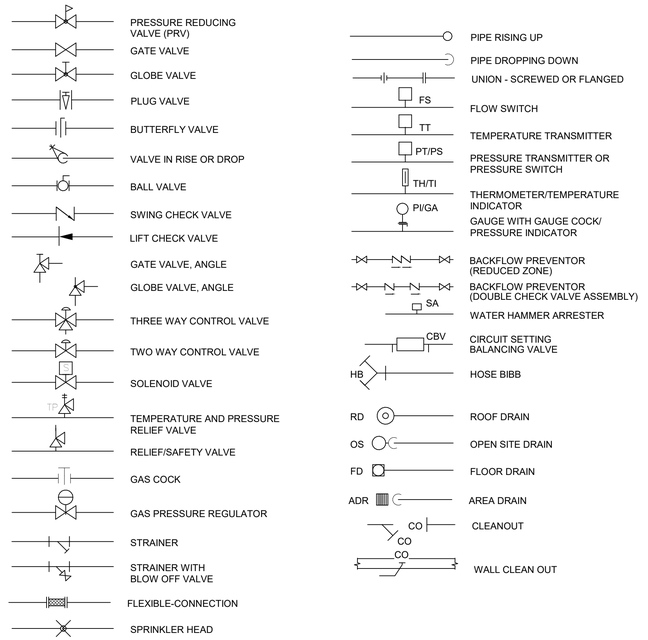
ISSUE DATE
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MECHANICAL DETAILS

DESIGNED BY: BS
CHECKED BY: RCM

M400

PIPING ELEMENTS/VALVING



PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE TYPE	MANUFACTURER	MODEL	CW	HW	SAN	VENT	NOTES
WC	WATER CLOSET (PRESSURE ASSIST)	AMERICAN STANDARD	2878.0162	1/2"ø	-	3"ø	-	YORKVILLE™ RIGHT HEIGHT® ELONGATED PRESSURE-ASSISTED TOILET 1.6 GPF / 6.0 LPF COORDINATE LEVER SIDE, SEAT COLOR, AND FINAL LAYOUT DIMMENSIONS WITH ARCHITECT AND ARCHITECTURAL PLANS. BACK OUTLET
LAV	LAVATORY (WALL HUNG - ADA)	KOHLER	K-2084	1/2"ø	1/2"ø	2"ø	2"ø	(HANDICAPPED): KOHLER K-2005 "KINGSTON" 21"x18" WALL HUNG VITREOUS CHINA LAVATORY W/ HOLES ON 4" CENTERS AND DRILLED FOR CONCEALED ARM CARRIER - MOEN FAUCET MODEL 8420 FAUCET WITH 0.35 GPM FLOW RESTRICTOR AERATOR - OFFSET DRAIN W/ STRAINER 3/8" CHROME PLATED SUPPLIES W/ WHEEL HANDLE STOPS - 1 1/4" CHROME PLATED BRASS "P" TRAP W/ CLEANOUT PLUG - WADE W-520-07 FLOOR SUPPORTED CONCEALED ARM CARRIER MOUNT RIM AT 34"A.F.F. AND INSTALL TO MEET ADA STANDARDS. COVER "P" TRAP AND EXPOSED HOT & COLD WATER SUPPLY W/PREMANUFACTURED INSULATING COVER PER SPECIFICATIONS. EQUAL MANUFACTURER'S - AMERICAN STANDARD, CRANE, ELJER.
SINK-2	SINK	ADVANCE TABCO	7-PS-60	1/2"ø	1/2"ø	2"ø	2"ø	HAND SINK, WALL MOUNTED 14" WIDE x 10" FRONT-TO-BACK x 5" DEEP BOWL, 20 GAUGE 304 STAINLESS STEEL, WITH SPLASH MOUNTED FAUCET, BASKET DRAIN, WALL BRACKET.
SINK-1	DUBLE SINK	KOHLER	K-28900-NA	1/2"ø	1/2"ø	2"ø	2"ø	KOHLER BUCKLEY 32-1/4" UNDERMOUNT DOUBLE BASIN STAINLESS STEEL KITCHEN SINK. FAUCET DELTA ESSA PULL-DOWN KITCHEN FAUCET WITH MAGNETIC DOCKING SPRAY HEAD - INCLUDES LIFETIME WARRANTY. MODEL 9113-AR-DST. 1.8 GPM.
MOP	MOP SINK	FIAT	MSB-2424	3/4"ø	3/4"ø	2"ø	2"ø	FIAT MSB-2424 MOLDED STONE MOP BASIN W/ #302 COMBINATION DOME STRAINER & LINT BASKET, COLOR #219 - #830-AA CHROME PLATED SERVICE FAUCET W/ VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE, PAIL HOOK, AND 3/4" HOSE THREADED ON SPOUT.
DWH	DOMESTIC WATER HEATER	AO SMITH	E6-50R45DV	3/4"ø	3/4"ø	-	-	AO SMITH 50 GALLON SHORT WATER HEATER. TWO 4.5KW HEATING ELEMENTS. 240V 1PH. SUPPLY COMPLETE WITH VACUUM BREAKER AND T&P RELIEF VALVE. EQUAL MANUFACTURERES: STATE, RUUD, NATIONAL, AND LOCHINVAR.
HB	HOSE BIBB	WADE	W-8600	3/4"ø	-	-	-	WADE NON-FREEZE #W-8600, BRONZE CASING W/NICKEL BRASS FACE, BACKFLOW PREVENTER, W/ LOOSE KEY SHUT-OFF. EQUAL MANUFACTURERS - JOSAM, WOODFORD, WATTS, ZURN. PROVIDE COLD WATER ONLY. CAP HW INLET.
ET	EXPANSION TANK	WATTS	DET-12	3/4"ø	-	-	-	FACTORY PRE-CHARGED DIAPHRAGM TYPE EXPANSION TANK FOR POTABLE WATER. WATTS MODEL DET-12. PROVIDE WITH WALL MOUNTING BRACKET AND INSTALL PER MANUFACTURER INSTRUCTION.
MV	MIXING VALVE	WATTS	SERIES LFMMV	1/2"ø	1/2"ø	-	-	WATTS LEAD FREE THERMOSTATIC MIXING VALVE.
WH	WATER HAMMER ARRESTOR	WATTS	LF15M2	1/2"ø	-	-	-	SHALL BE PLACED ON EVERY WC/EWC
SHO-1	SHOWER DRAIN	-	-	-	-	2"ø	2"ø	COORDINATE MAKE AND MODEL OF SHOWER SYSTEM WITH ARCHITECT AND OWNER.
FD	FLOOR DRAIN	JOSAM	FD-302J-5A	-	-	2"ø	-	LITE LINE: PVC 2-PIECE DRAIN BODY W. ADJ RD NIKALOY STR. PVC 2-PIECE FLOOR DRAIN WITH 1/2" PRIMER TAP WITH PLUG, SOLVENT WELD BOTTOM OUTLET FOR SCH 40 PVC PIPE AND ADJUSTABLE ROUND NIKALOY STRAINER.
TP	TRAP PRIMER	ZURN	Z-1022	1/2"ø		-		TRAP PRIMER - ZURN Z-1022 SANI-GUARD. CONNECT TO CW WITH VALVE, EXTEND TP TO FLOOR DRAIN AS REQUIRED.
FCO	FLOOR CLEANOUT	WADE	W-6000Z-X	-	-	3"ø	-	CAST IRON W/ ADJUSTABLE HOUSING. ROUND HEAVY CAST IRON VANDAL PROOF TOP WITH STAINLESS STEEL SCREWS. EQUAL MANUFACTURERS: JOSAM, ZURN, J.R. SMITH.
WCO	WALL CLEANOUT	WADE	W-8480R			3"ø		WADE #W-8480R, WITH BRASS PLUG AND ROUND STAINLESS STEEL SECURED ACCESS COVER. EQUAL MANUFACTURERS: JOSAM, ZURN, J.R. SMITH.
ECO	EXTERIOR CLEANOUT	WADE	W-6000Z-X	-	-	3"ø	-	CAST IRON W/ ADJUSTABLE HOUSING. ROUND HEAVY CAST IRON VANDAL PROOF TOP WITH STAINLESS STEEL SCREWS. EQUAL MANUFACTURERS: JOSAM, ZURN, J.R. SMITH.
SHO-2	DOG SHOWER DRAIN	-	-	-	-	2"ø	2"ø	COORDINATE MAKE AND MODEL OF SHOWER SYSTEM WITH ARCITECT AND OWNER.
TD	TRENCH DRAIN	-	-	-	-	3"ø	2"ø	SELECTED BY OWNER/ARCHITECT

DRAINAGE FIXTURE UNIT SUMMARY

FIXTURE	QUANTITY	DRAINAGE FIXTURE UNITS	TOTAL DFU'S
WC	2	4	8
LAV	2	1	2
SHO-1	1	2	2
SHO-2	1	2	2
SINK-1	1	2	2
SINK-2	2	2	4
MOP	1	2	2
FD	6	2	12
TOTAL			34

WATER FIXTURE UNIT SUMMARY

FIXTURE	QUANTITY	WATER FIXTURE UNITS	TOTAL WATER FIXTURE UNITS
WC	2	5	10
LAV	2	1.5	3
SHO-1	1	3	3
SHO-2	1	3	3
SINK-1	1	3	3
SINK-2	2	3	6
MOP	1	2.25	2.25
HB	3	2.25	6.75
TOTAL			37

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PROJECT ADDRESS: -

RALPH C MORRONE LICENSE No. 79993 STATE OF FLORIDA PROFESSIONAL ENGINEER

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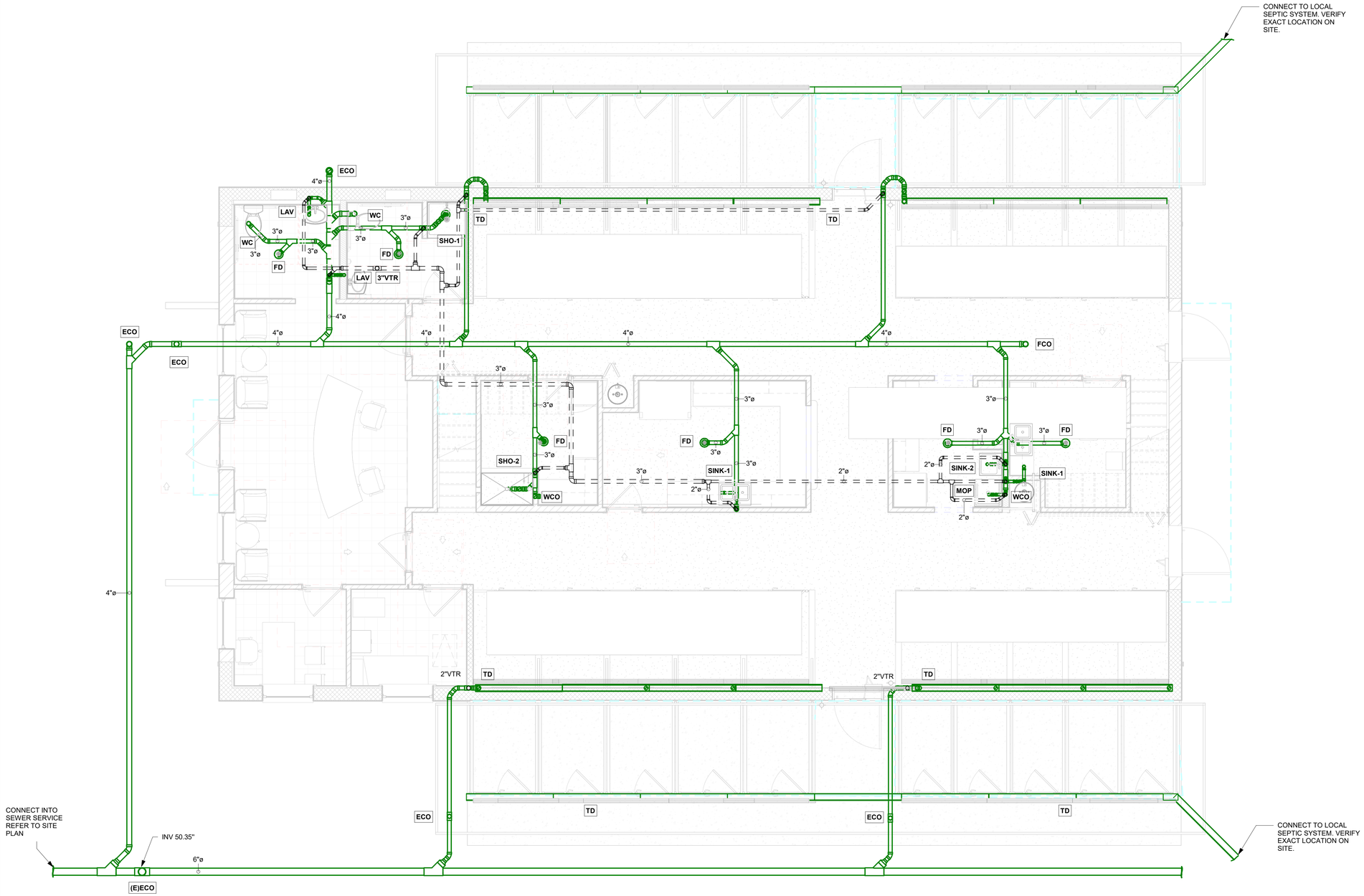
PROJECT NUMBER
25-156

ISSUE DATE
09/08/2025

PLUMBING & SANITARY SPECIFICATIONS

DESIGNED BY:	BS
CHECKED BY:	RCM

P000



1 SANITARY & VENT PLAN
1/4" = 1'-0"

PLUMBING GENERAL NOTES

1.	THESE DRAWINGS WERE DESIGNED TO THE 2023 FBC PLUMBING 8TH EDITION.
2.	PRIOR TO BIDDING, CONTRACTOR SHALL MAKE ITSELF AWARE OF ALL DESIGN SCOPE AND DESIGN INTENT. REVIEW DRAWINGS AND EXISTING SITE FOR DISCREPANCIES, ISSUES, AND QUESTIONS. NOTIFY THE EOR IMMEDIATELY FOR ANY DISCREPANCIES OR ISSUES.
3.	THESE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO IMPLY DESIGN INTENT. THESE DRAWINGS ARE NOT INCLUSIVE OF EVERY DETAIL REQUIRED TO COMPLETE THE DESIGN INTENT. SCOPE OF WORK, CODE COMPLIANCE, GOOD WORKMANSHIP, INDUSTRY STANDARD OF CARE, AND CONFORMITY TO LOCAL AHJ SHALL BE THE RESPONSIBLITY OF THE BIDDING & INSTALLING CONTRACTOR.
4.	ALL HOT WATER PIPING INSULATION SHALL COMPLY WITH FBC 2023 ENERGY CODE, 8TH EDITION. FOR ALL PIPING LESS THAN 1 1/2", INSULATION SHALL BE 1" THICK. FOR ALL OTHER PIPING, INSULATION SHALL BE 1 1/2" THICK.
5.	ALL PIPING MATERIALS SHALL BE SCHEDULE 40 PVC FOR SAN & VENT AND CPVC, PEX, OR COPPER FOR WATER SUPPLY PIPING. SAN LINES SHALL BE RUN AT 1/4" PER FOOT SLOPE FOR ALL SIZES LESS THAN 3" AND 1/8" PER FOOT SLOPE FOR ALL OTHER SIZES UNLESS NOTED OTHERWISE. VENT LINES SHALL BE PLUMB IN THE VERITCAL DIRECTION AND SLOPED AT 1/16" PER FOOT BACK TO THE SAN STACK. WATER SUPPLY PIPING SHALL BE RUN PLUMB AND LEVEL.
6.	ALL LAVS SHALL HAVE THERMOSTATIC MIXING VALVES INSTALLED PER 2023 FBC PLUMBING, 8TH EDITION 607.1.2.
7.	SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE LAYOUTS, SECTIONS, AND ELEVATIONS.
8.	ALL EQUIPMENT CONNECTIONS TO POTABLE WATER SUPPLY SHALL HAVE BACKFLOW PREVENTION PER 2023 FBC PLUMBING, 8TH EDITION TABLE 608.1.
9.	ALL NEW FLOOR DRAINS SHALL HAVE TRAP PRIMERS INSTALLED FROM NEAREST HAND SINK OR LAV. ALL (E)FLOOR DRAINS SHALL BE RETROFIT TO HAVE TRAP PRIMERS INSTALLED PER ABOVE.

PLUMBING PLAN LEGEND

COLD WATER	CW
UNDERGROUND COLD WATER	UCW
HOT WATER	HW
HOT WATER RETURN	HWR
GREASE SANITARY	GSAN
SANITARY	SAN
VENT PIPING	VENT
NATURAL GAS PIPING	NGAS

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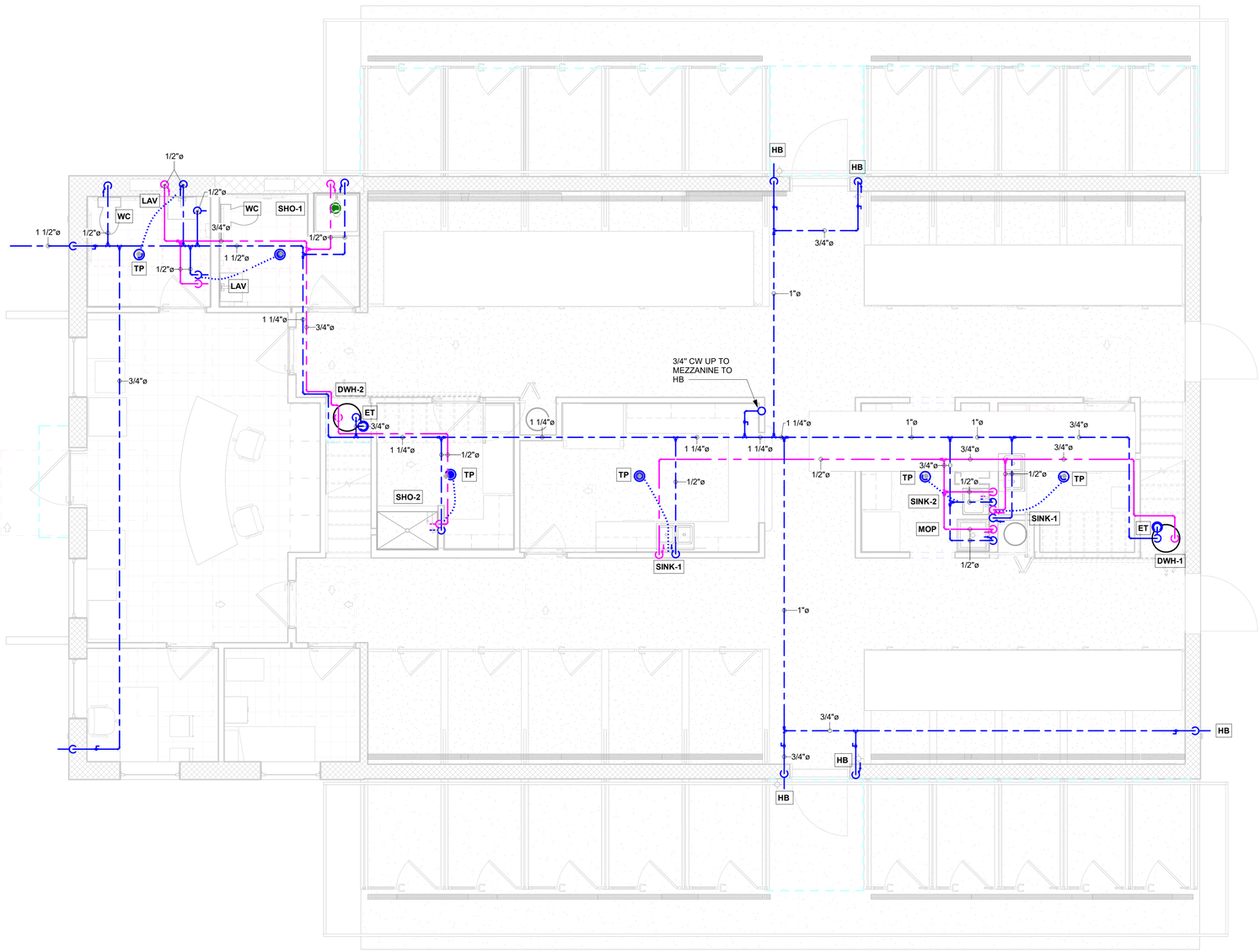
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SANITARY & VENT PLANS

DESIGNED BY: BS
CHECKED BY: RCM

P100



1 PLUMBING PIPING PLAN
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UNDERGROUND COLD WATER	UCW
HOT WATER	HW
HOT WATER RETURN	HWR
GREASE SANITARY	GSAN
SANITARY	SAN
VENT PIPING	VENT
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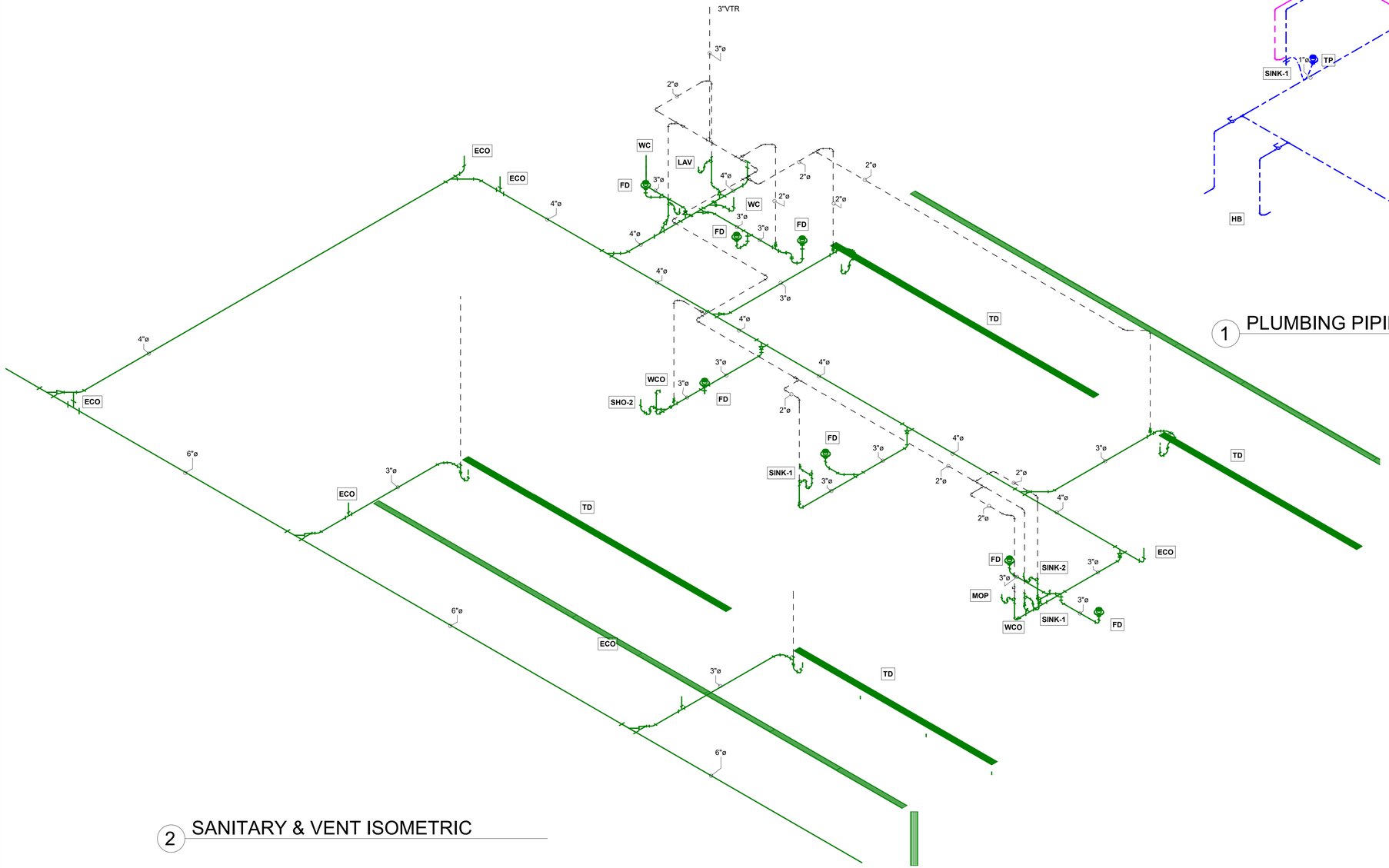
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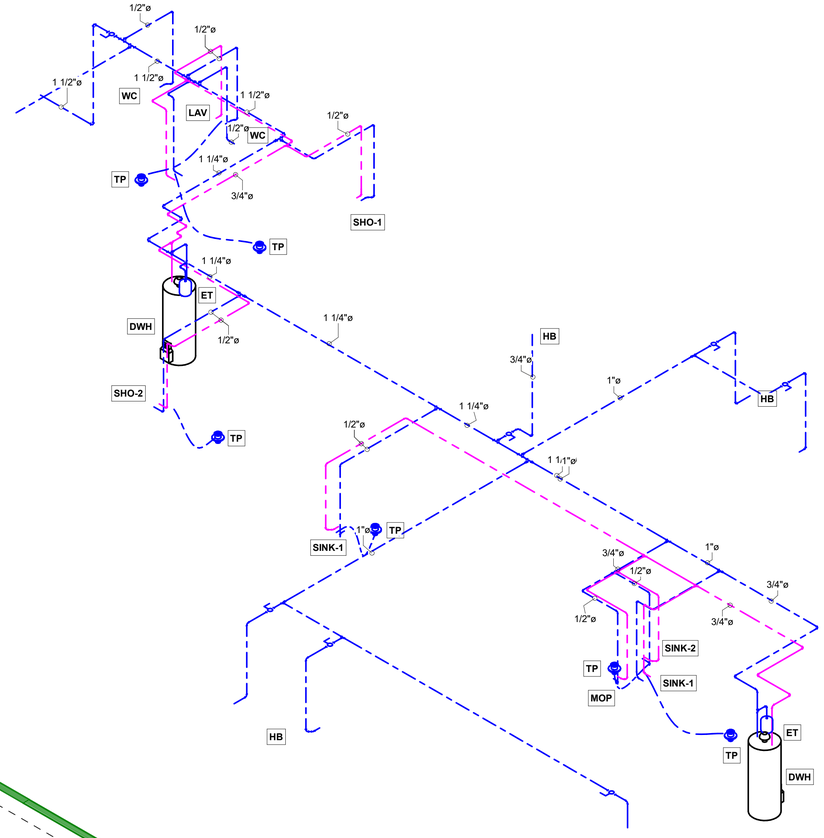
PLUMBING
PIPING PLANS

DESIGNED BY: BS
CHECKED BY: RCM

P200



2 SANITARY & VENT ISOMETRIC



1 PLUMBING PIPING ISOMETRIC

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3689 TAMPA RD. TAMPA, FL 34677 | (813) 943-2002 | ralph@exec-engineering.com

REVISIONS

NO.	DATE	DESCRIPTION

CLIENT NAME: SHARP DESIGN STUDIO
PROJECT NAME: PETROPOLIS PET CENTAR
PROJECT ADDRESS:

RALPH C MORRONE LICENSE No. 79993 STATE OF FLORIDA PROFESSIONAL ENGINEER

PROJECT STATUS
PROGRESS SET

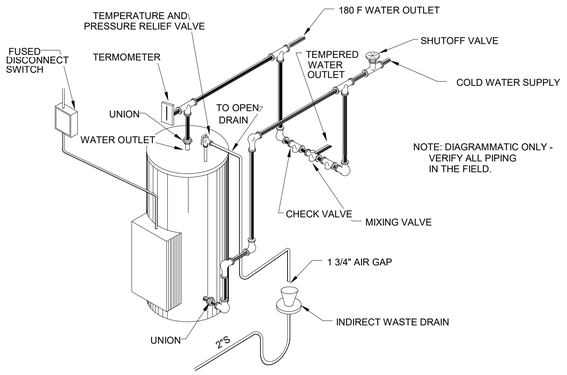
PROJECT NUMBER
25-156

ISSUE DATE
09/08/2025

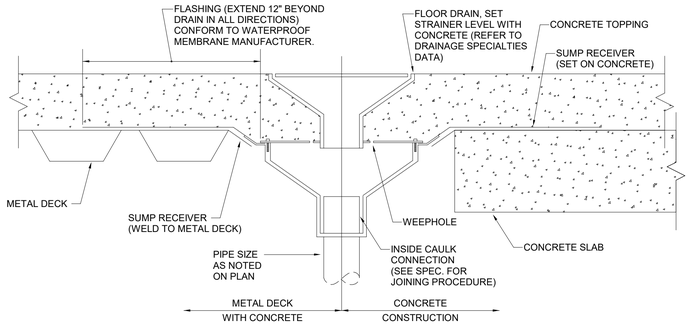
PLUMBING ISOMETRIC DIAGRAMS

DESIGNED BY:	BS
CHECKED BY:	RCM

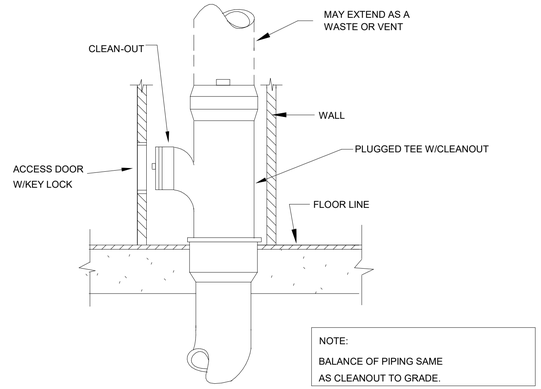
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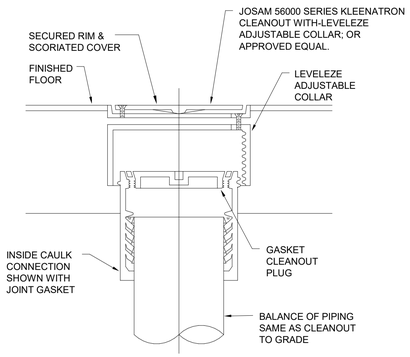
1 ELECTRIC WATER HEATER PIPING DETAIL
NOT TO SCALE



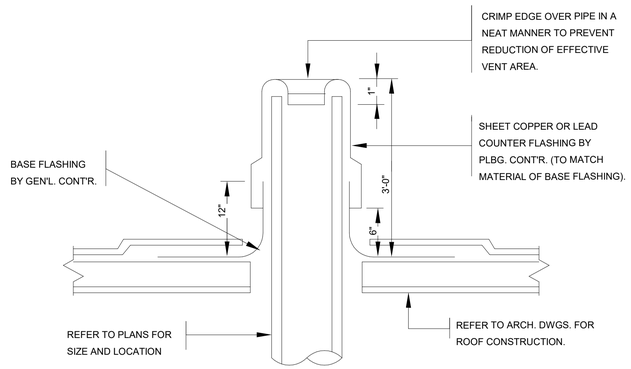
2 FLOOR DRAIN DETAIL
NOT TO SCALE



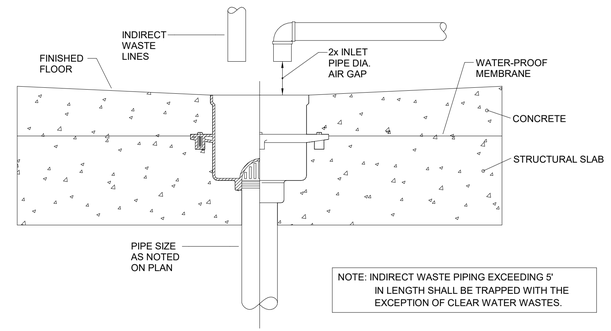
3 WALL CLEANOUT DETAIL
NOT TO SCALE



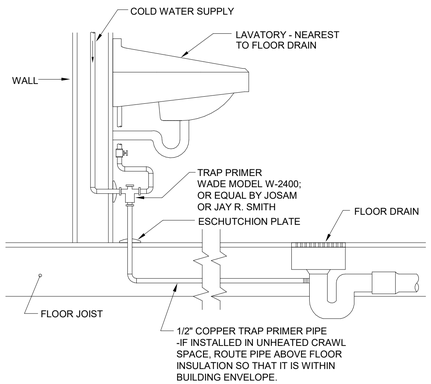
4 FLOOR CLEANOUT DETAIL
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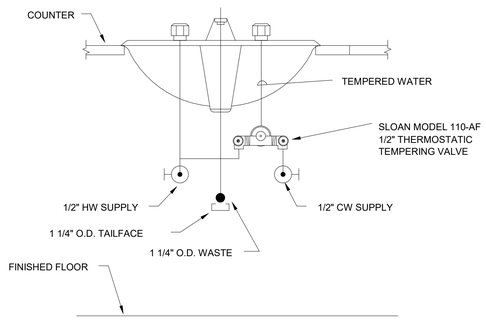
5 PLUMBING VENT THRU FLAT ROOF DETAIL
NOT TO SCALE



6 FLOOR SINK DETAIL
NOT TO SCALE



7 FLOOR DRAIN TRAP PRIMER DETAIL
NOT TO SCALE



8 LOCAL MIXING VALVE DETAIL
NOT TO SCALE

BID SET - NOT FOR CONSTRUCTION

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