ATLANTIC
INTERIOR BUILD-OUT
3976 DESTINATION DRIVE UNIT A-411
OSPREY, FLORIDA

INDEX OF DRAWINGS

CODE SUMMARY AND LIFE SAFETY NOTES

1 - DESIGN PER FLORIDA BUILDING CODE 2020 7TH EDITION, NEC 2017, FFPC 2020 7TH EDITION
2 - MERCANTILE OCCUPANCY (33.6 OCCUPANTS)
3 - CONSTRUCTION TYPE IIB SPRINKLED
4 - MAXIMUM TRAVEL DISTANCE TO EXIT IS APPROXIMATELY 50'
5 - NUMBER OF EXITS = 9
6 - .2 INCHES PER OCCUPANT REQUIRED (14) = 2.8" - 612" PROVIDED

OVERALL GROSS SQ. FT. = 2,406 S.F.
STORAGE 103 S.F. @ 300 S.F. PER OCCUPANT = .34
MERCANTILE 2,018 S.F. @ 60 S.F. PER OCCUPANT = 33.6

REMAINING AREAS ARE RESTROOM AND EGRESS
TOTAL OCCUPANTS = 14 OCCUPANTS

PLUMBING ANALYSIS
ONE RESTROOM PROVIDED
NO SERVICE IS REQUIRED – LESS THEN 15 OCCUPANTS
NO DRINKING FOUNTAIN REQUIRED LESS THEN 25 OCCUPANTS

NO EXTERIOR WORK THIS PROJECT EXCEPT FOR THE INSTALLATION OF A WATER PROOF OUTLET AND A NEW ROOF TOP A/C UNIT ON THE EXISTING CURB

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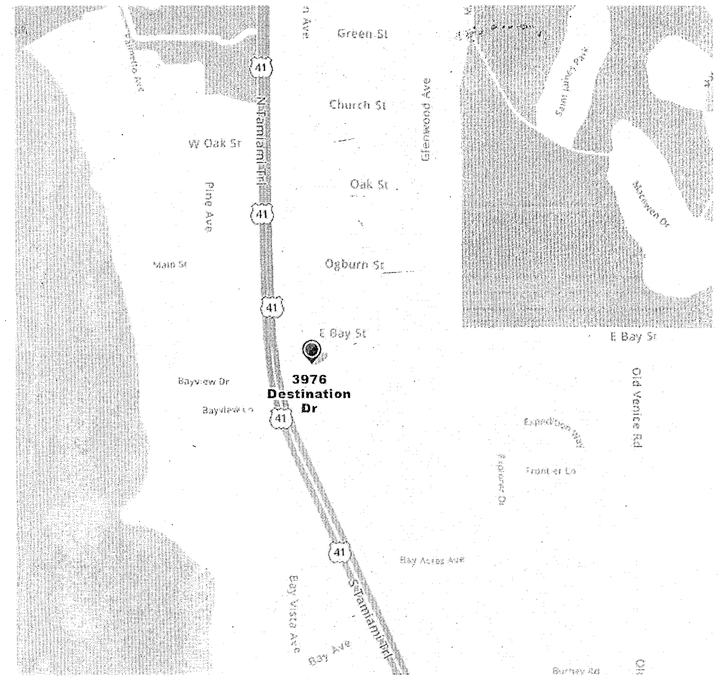
(941–544–8374)
LIC. AAC000691



LOCATION PLAN

SCALE: NTS

N

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Richard G. Allen
c=US, st=Florida,
l=Sarasota,
o=Richard G Allen
Architects, Inc.,
cn=Richard G. Allen
2022.06.17 11:39:58
-04'00'

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3976 DESTINATION DRIVE
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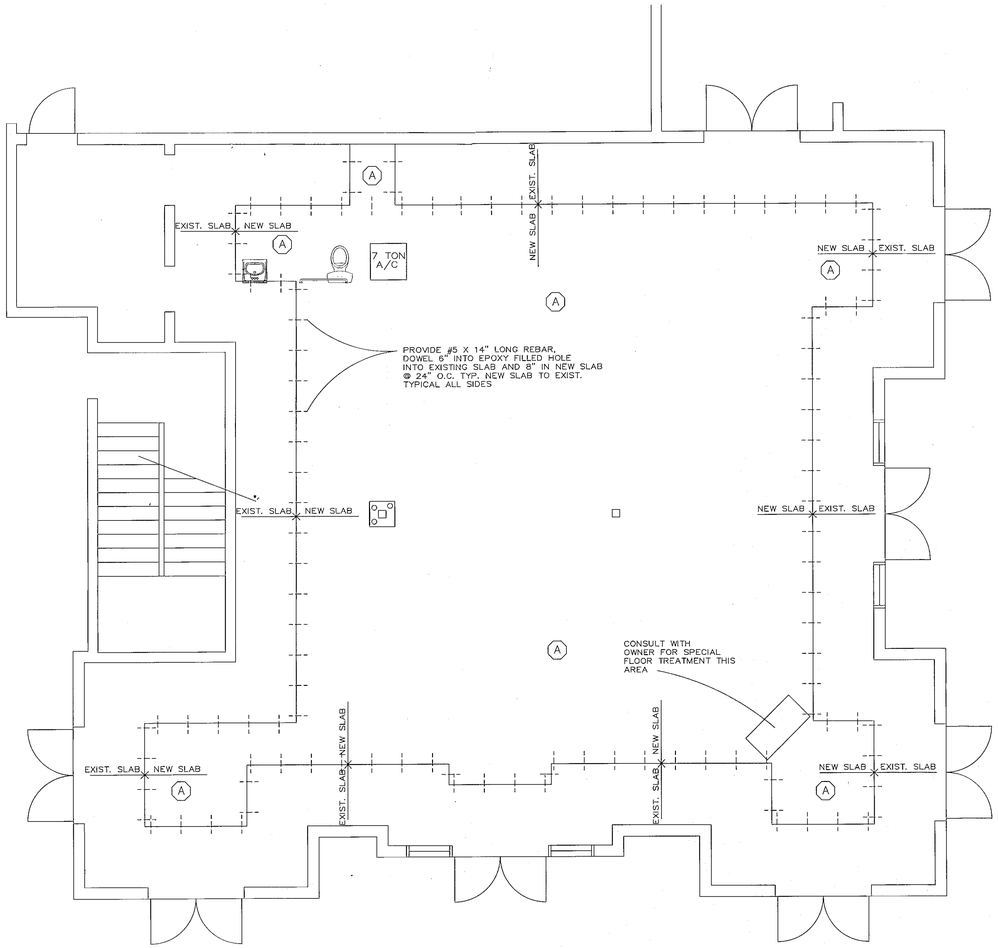

NEW SLAB PLAN

SCALE: 1/4" = 1'-0"
2,406 S.F.

(A) CONCRETE SLAB TO BE 4" THICK 3,000 PSI W/ 6X6 #10/#10 WWM OVER 6 MIL. VAPOR BARRIER OVER CLEAN COMPACTED, TREATED FILL.

FIELD VERIFY EXISTING PERIMETER CONC. SLAB

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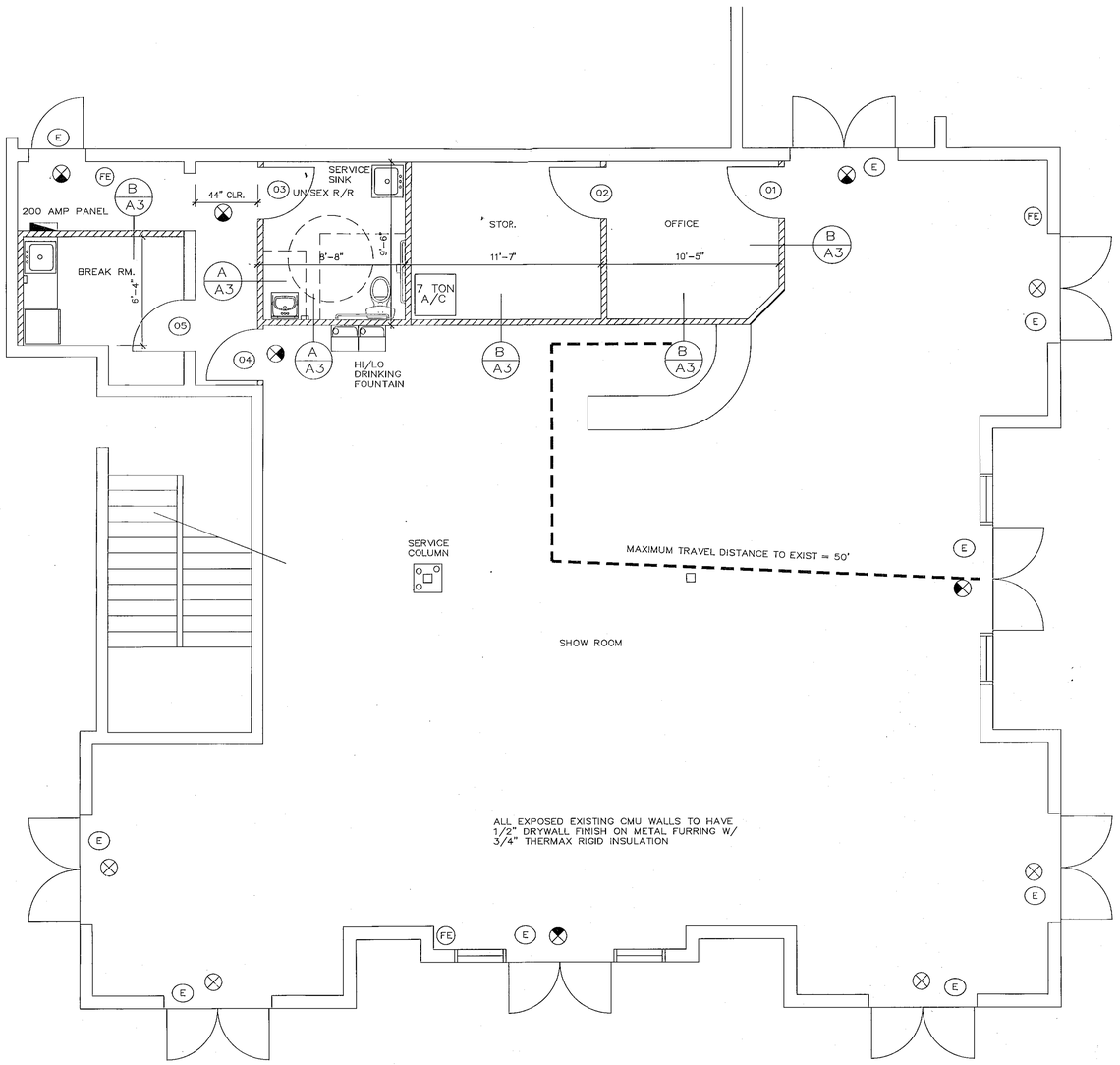


FLOOR / LIFE SAFETY PLAN

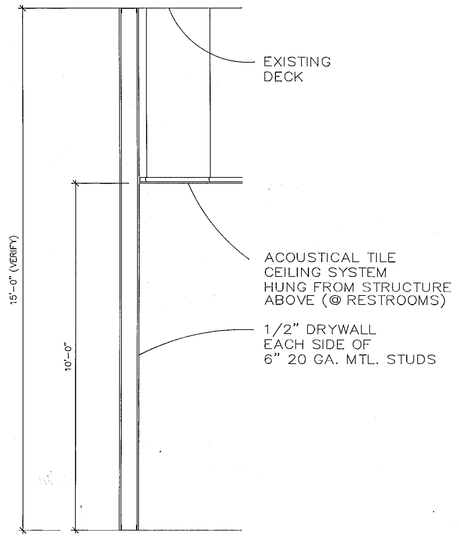
SCALE: 1/4" = 1'-0"
2,406 S.F.

- ⊗ ILLUMINATED EXIT EMERGENCY LIGHT HARD WIRED W/ BATTERY BACK-UP
- ⊗ ILLUMINATED EXIT SIGNAGE
- (FE) FIRE EXTINGUISHER 2A10 BC, 10 LB. SET @ 48" A.F.F.

DOOR SCHEDULE

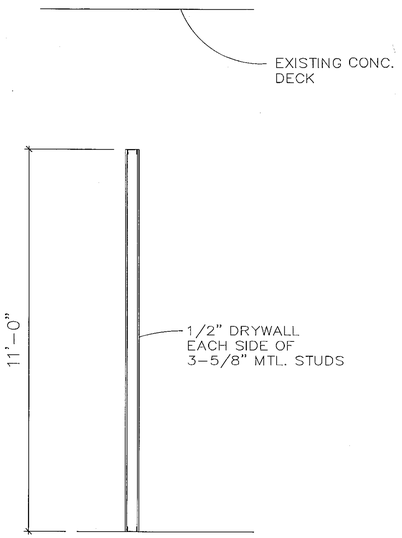
(E)	EXISTING
(01)	3'-0" X 6'-8"
(02)	3'-0" X 6'-8"
(03)	3'-0" X 6'-8"
(04)	3'-0" X 6'-8"
(05)	3'-0" X 6'-8"

STOREFRONT WINDOWS ARE EXISTING



A A3 INTERIOR WALL SECTION
SCALE: 1/2" = 1'-0"

PROVIDE X BRACING AS NEEDED



B A3 INTERIOR WALL SECTION
SCALE: 1/2" = 1'-0"

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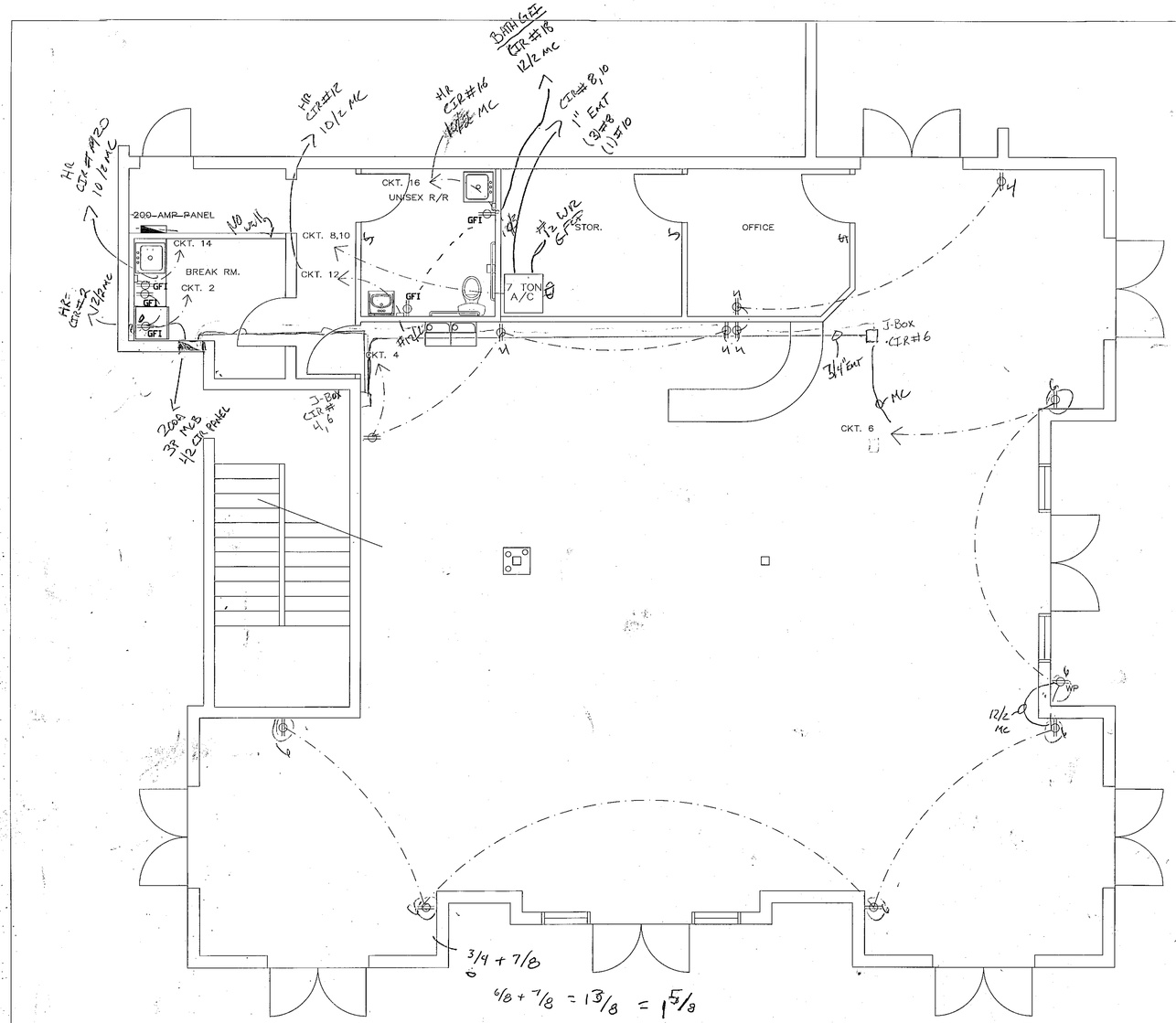

ELECTRICAL PLAN

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

LEGEND

- DUPLEX OUTLET
- GFI — GROUND FORCE INTERUPT OUTLET
- WP — WATER PROOF OUTLET

MANUFACTURER: SQUARE-D NQOD
MAIN BREAKER: AT METER
MAIN LUGS: 200
K.A.I.C.: 10
MOUNTED: FLUSH

1 PHASE
3 WIRE
120/208 VOLTS

NAME: **TENANT PANEL**
PROJECT NAME: LAMP STORE
PROJECT NUMBER:
FED FROM: METER (M.D. PANEL)

NOTES	CKT NO.	IDENTIFICATION	WIRE/COND	CODE	LOAD/PHASE (KVA) A	B	C	CIRCUIT BREAKER TRIP	P	P	TRIP	LOAD/PHASE (KVA) A	B	C	CODE	WIRE/COND	IDENTIFICATION	CKT NO.	NOTES
3	1	LIGHTS	2#12,1#12G, 1/2"C	L	1.00			20	1	1	20	1.00			R	2#12,1#12G, 1/2"C	RECEPTACLES	2	
3	3	LIGHT/FAN	2#12,1#12G, 1/2"C	L		1.00		20	1	1	20		1.00		R	2#12,1#12G, 1/2"C	RECEPTACLES	4	
3	5	LIGHTS	2#12,1#12G, 1/2"C	L			1.00	20	1	1	20			1.00	R	2#12,1#12G, 1/2"C	RECEPTACLES	6	
3	7	LIGHTS	2#12,1#12G, 1/2"C	L	1.00			20	1	2	40	3.00					AH	8	1
3	9	LIGHTS	2#12,1#12G, 1/2"C	L		1.00		20	1				3.00		C	3#8, 1#10G, 1"C		10	
1	11	ROOF TOP A/C	3#8, 1#10G, 1"C	C			3.00	45	2	1	30			2.00		2#12,1#12G, 1/2"C	W.H.	12	
	13				3.00					1	30	2.00				2#12,1#12G, 1/2"C	W.H.	14	
	15	SPACE ONLY								1	30		2.00			2#12,1#12G, 1/2"C	W.H.	16	
	17	SPACE ONLY														GFCI B/A	SPACE ONLY	18	
	19	SPACE ONLY														Kitchen Hut	SPACE ONLY	20	
	21	SPACE ONLY															SPACE ONLY	22	
	23	SPACE ONLY															SPACE ONLY	24	
	25	SPACE ONLY															SPACE ONLY	26	
	27	SPACE ONLY															SPACE ONLY	28	
	29	SPACE ONLY															SPACE ONLY	30	
	31	SPACE ONLY															SPACE ONLY	32	
	33	SPACE ONLY															SPACE ONLY	34	
	35	SPACE ONLY															SPACE ONLY	36	
	37	SPACE ONLY															SPACE ONLY	38	
	39	SPACE ONLY															SPACE ONLY	40	
	41	SPACE ONLY															SPACE ONLY	42	
					5.0	2.0	4.0					6.0	6.0	3.0					

TOTAL KVA PHASE A: 11.00
TOTAL KVA PHASE B: 8.00
TOTAL KVA PHASE C: 7.00

TOTAL CONNECTED KVA: 26.00
TOTAL CONNECTED AMPS: 72.17
TOTAL DEMAND KVA: 16.02
TOTAL DEMAND AMPS: 44.48

	CONN LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)	
LIGHTING (L)	5	1.25	9.0225	*
RECEPTACLES (R)	3	NEC	3.00	
A/C HEATING (H)	0	1.00	0	**
A/C COOLING (C)	6	1.00	6	**
KITCHEN EQUIPENT (K)	0	NEC	0	
LARGEST MOTOR (M)	0	1.25	0	
OTHER (O)	0	1.00	0	

SQUARE FOOT: **2406**
GENERAL LIGHTING LOAD: **3** VA/SF

* LIGHTING DEMAND LOAD IS BASED ON THE LARGER OF THE TWO (CONNECTED VS. TABLE 220.3a, NEC 2017

**LARGER A/C LOAD: 4 KVA
(TL) LENGTH 0 KVA

NOTES:

1) PROVIDE LOCKED CIRCUIT BREAKER
2) PROVIDE HACR RATED CIRCUIT BREAKER
3) LIGHTING SHALL BE CONTROLLED BY AN AUTOMATIC TIME CLOCK CAPABLE OF OVERRIDING A MAXIMUM OF 2HOURS
4) EXIT/EMER LIGHTS SHALL BE WIRED TO A LOCAL CIRCUIT AHEAD OF ANY SWITCHES (PER I PER NEC 2017
5) FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER WIRE IN EMT AND MC CABLE CONDUITS
6) FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS ARE DESIGNED IN COMPLIANCE W/ FBIC 2020 7TH EDITION , 6TH EDITION ENERGY CONSERVATION CODE 505.7.3 AT DESIGN LOAD FOR BRANCH CIRCUITS AND 2% FOR FEEDER CONDUCTORS

ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF SERVICE METER AND CAPACITY OF DISCONNECT.
ELECTRICAL CONTRACTOR SHALL ESTABLISH DISTANCE FROM TENANT PANEL TO SERVICE CENTER BEFORE SIZING CONDUCTOR AND GROUNDS

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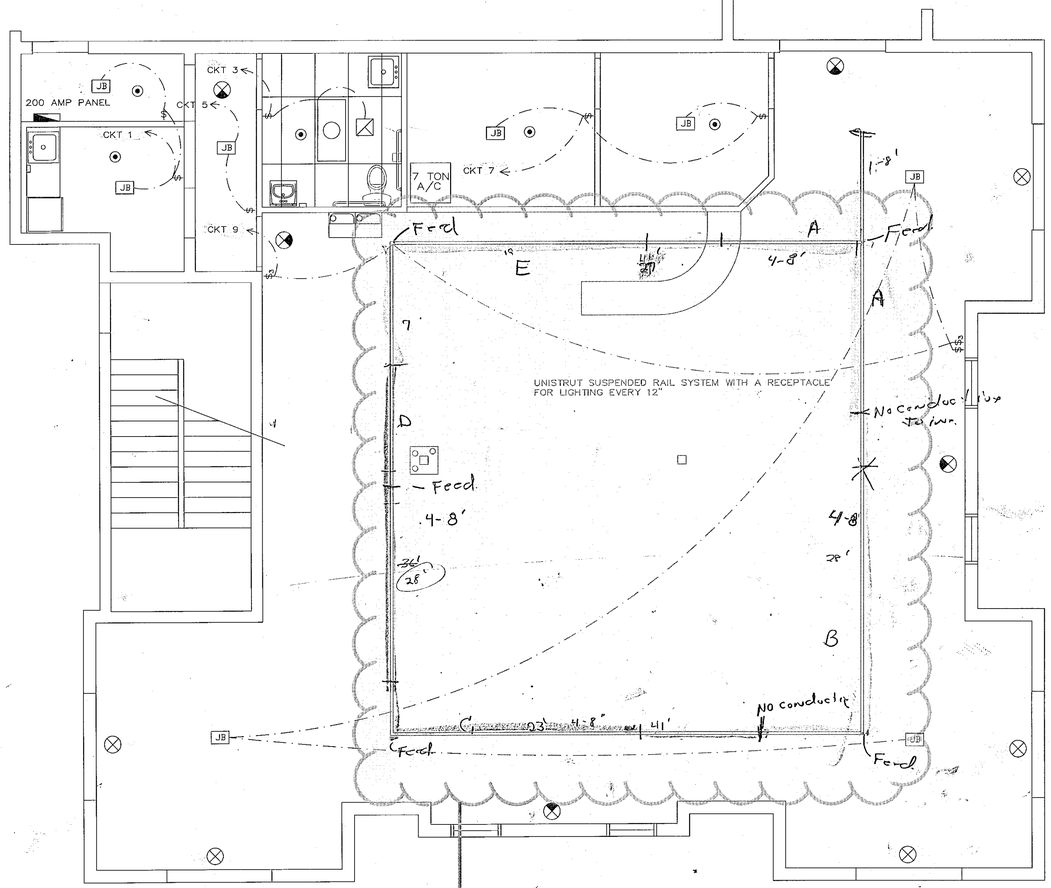


EXTERIOR LIGHTING IS EXISTING

17 - 8'

To be track lighting with LED heads

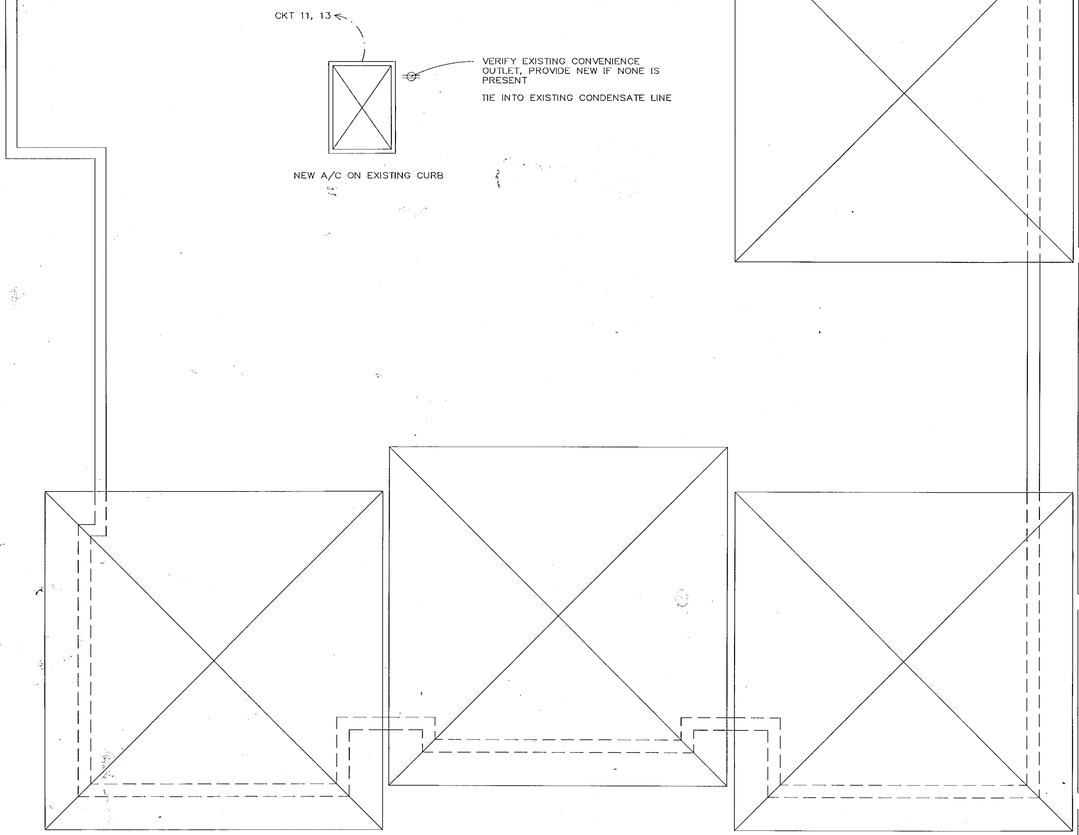
LIGHTING PLAN

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

LEGEND

- 2 X 4 LED 4 TUBE LAY-IN LIGHT FIXTURE
- SURFACE MOUNTED FIXTURE BY OWNER
- JB — JUNCTION BOX FOR OWNER SELECTED FIXTURE
- OCCUPANCY SENSOR CEILING MOUNTED OR SWITCH CONTROLLED 30 MINUTES INACTIVITY
- ILLUMINATED EXIT EMERGENCY LIGHT HARD WIRED W/ BATTERY BACK-UP
- ILLUMINATED EXIT SIGNAGE
- FE — FIRE EXTINGUISHER 2A10 BC, 10 LB. SET @ 48" A.F.F.
- EXHAUST FAN

SEE SPRINKLER SHOP DRAWINGS BY LICENSED SPRINKLER CONTRACTOR
SEE FIRE ALARM DEVICE SHOP DRAWINGS BY LICENSED FIRE ALARM CONTRACTOR



EXISTING ROOF PLAN

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

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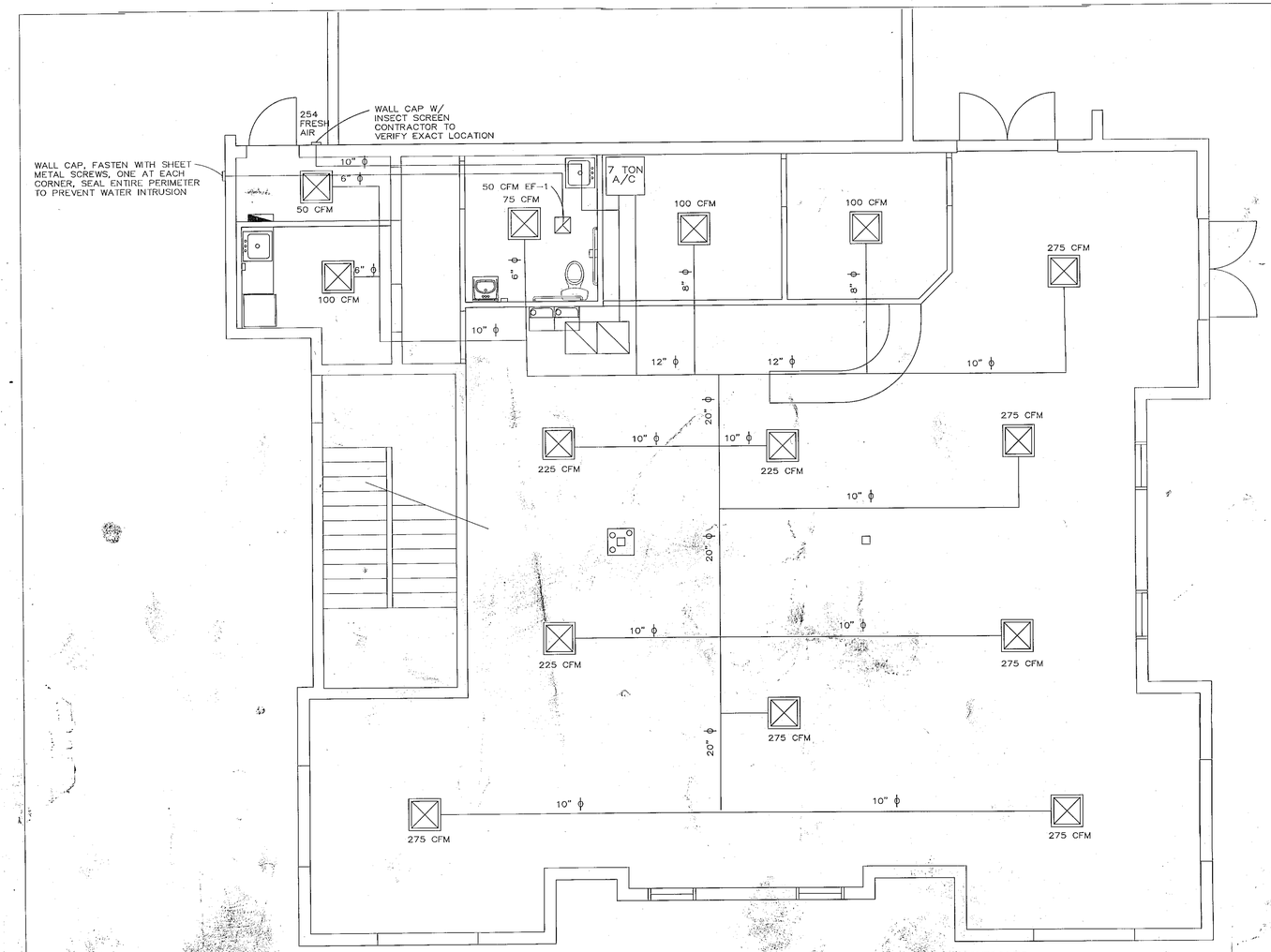

HVAC PLAN

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

LEGEND

24" X 24" SUPPLY AIR VENT

24" X 24" RETURN

50 CFM CEILING MOUNT ENV. EXHAUST FAN

NOTES:
CONSENSER TO BE LOCATED ON EXISTING ROOF CURB

ALL EXPOSED DUCTWORK TO BE INSULATED SPIRAL DUCT

NCI DUCT DESIGN TABLES

Flexible Duct

Duct Size	Design Airflow
5"	50
6"	75
7"	110
8"	160
9"	225
10"	300
12"	480
14"	700
16"	1000
18"	1300
20"	1700

Flex Duct = .05" Metal Duct Calculator

Round Metal Pipe

Duct Size	Design Airflow
5"	60
6"	85
7"	125
8"	180
9"	250
10"	325
12"	525
14"	770
16"	1200
18"	1500
20"	2000

Round Metal Duct = .05" Metal Duct Calculator

Rectangular Duct - Net inside dimension in inches

4"	CFM	6"	CFM	8"	CFM	10"	CFM	12"	CFM
6x4	60	4x6	60	6x8	90	4x10	120	4x12	150
8x4	90	6x6	110	6x8	160	6x10	215	6x12	270
10x4	120	8x6	160	8x8	230	8x10	310	8x12	400
12x4	150	10x6	215	10x8	310	10x10	430	10x12	550
14x4	180	12x6	270	12x8	400	12x10	550	12x12	680
16x4	210	14x6	320	14x8	490	14x10	670	14x12	800
18x4	240	16x6	375	16x8	580	16x10	800	16x12	950
20x4	270	18x6	430	18x8	670	18x10	930	18x12	1100
22x4	300	20x6	490	20x8	750	20x10	1060	20x12	1250
24x4	330	22x6	540	22x8	840	22x10	1200	22x12	1400
		24x6	600	24x8	930	24x10	1320	24x12	1600
		26x6	650	26x8	1020	26x10	1430	26x12	1750
		28x6	710	28x8	1100	28x10	1550	28x12	1950
		30x6	775	30x8	1200	30x10	1670	30x12	2150
				32x8	1300	32x10	1800	32x12	2300
				34x8	1400	34x10	1930	34x12	2450
				36x8	1500	36x10	2060	36x12	2600
						38x10	2200	38x12	2750
						40x10	2350	40x12	2900
								42x12	3050
21/2x10	90								
21/2x14	70								
21/2x30	150								
		31/2x10	100						
		31/2x14	720						

Rectangular Duct = .05" on Duct Calculator

Step One - Identify the volume of air that will be passing through the duct
Step Two - Select the duct size from the table that can carry that volume of air
Step Three - If desired airflow exceeds the CFM rating, increase to the next duct size
Step Four - Listed CFM is based on typical field results and may vary, install dampers
Step Five - If duct run exceeds 25' or has excessive transitions, increase to the next size
Step Six - Design alone is inadequate, always prove design by test and balance

RESULTS		
Vot	Minimum outdoor air intake, Vou/Ev, cfm	204
	Percent outdoor air intake, Vot/Vps	21%
Ev	System ventilation efficiency	1.00

ZONE LEVEL

	Zones served by system	Zone 1	Zone 2
	Space type (select from pull-down list)	Sales (except as listed)	Storage, rest
Az	Floor area of zone, ft2	880	103
Pz	Zone population, largest # of people expected to occupy zone	14	1
Rp	People outdoor air rate from Table 6.1, cfm/person	7.5	0
Ra	Area outdoor air rate from Table 6.1, cfm/ft2	0.12	0.12
Pz*Rp		105	0
Az*Ra		105.6	12.36
Voz	Outdoor airflow to the zone corrected for zone air distribution effectiveness, (Pz*Rp + Az*Ra)/Ez, cfm	210.6	12.36
Vpz	Primary airflow to zone from air handler (intake plus recirculated air, but not local recirculation such as at mixing boxes), cfm. **In VAV systems, use the design value.**	2325	100
Vdz	Supply/discharge to zone including primary air Vpz and locally recirculated air, cfm. **In VAV systems, use the design value.**	2325	100
Vdzm	Minimum supply/discharge to zone used to calculate Ev, cfm. **In CAV systems, Vdzm = Vdz. In VAV systems, Vdzm is the minimum expected value of Vdz.**	2325	100
Zd	Outdoor air fraction required in air discharged to zone, = Voz/Vdzm	0.09	0.12
Ep	Primary air fraction to zone, = Vpz/Vdz (=1 for single duct and single zone systems)	1.00	1.00
Er	Fraction of secondary recirc to zone representative of system average, only applies if Ep<1. For plenum return =0. For duct return with local secondary recirc =1.	0.80	0.80
Ez	Zone air distribution effectiveness, Table 6.2	1.00	1.00
Fa	Fraction of supply air to zone from sources outside zone, = Ep + (1-Ep)*Er	1.00	1.00
Fb	Fraction of supply air to zone from full mixed primary air, = Ep = Vpz/Vdz	1.00	1.00
Fc	Fraction of outdoor air to zone from sources outside zone, = 1 - (1-Ez) * (1-Er) * (1-Ep)	1.00	1.00

SYSTEM LEVEL

Ps	System population, maximum simultaneous # of occupants of space served by system	14
D	Occupant diversity, ratio of system peak occupancy to sum of space peak occupancies, = Ps/ΣPz	0.75
Vou	Uncorrected outdoor air intake, = D*ΣRp*Pz +ΣRa*Az, cfm	204
Vps	Total system primary flow to all zones, Σ Voz, cfm	2000
Xs	Mixing ratio at primary air handler of uncorrected outdoor air intake to system primary flow, = Vou/Vps	0.30

SYSTEM EFFICIENCY

Evs	Zone ventilation efficiency, (Fa +Xs*Fb - Z*Fc)/Fa	1.21	1.18
Ev	System ventilation efficiency, min(Evs)	1.00	
			% outdoor
Vot	**Minimum outdoor air intake, Vou/Ev, cfm**	204	21%

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FAN SCHEDULE					
MARK	TYPE	CFM	DRIVE	SERVICE AREA	NOTES
AHU	SPLIT	2800	DIRECT	ALL AREAS	3,4
EF-1	CLG.	50	DIRECT	TOILET ROOM	1,3,4
1. CEILING MOUNTED FAN					
2. PROVIDE BACK DRAFT DAMPER & DISCONNECT SWITCH					
3. INSTALLATION BY MECHANICAL CONTRACTOR					
4. MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH OPERATION MANUAL					

AIR BALANCE TABULATION						
MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	PRESSURE	SERVICE AREA
7 TON	2800	2546	204		0	ALL AREAS
EF-1				-50	-50	TOILET ROOM
M/U AIR			50		50	
TOTAL	2800			-50	0	

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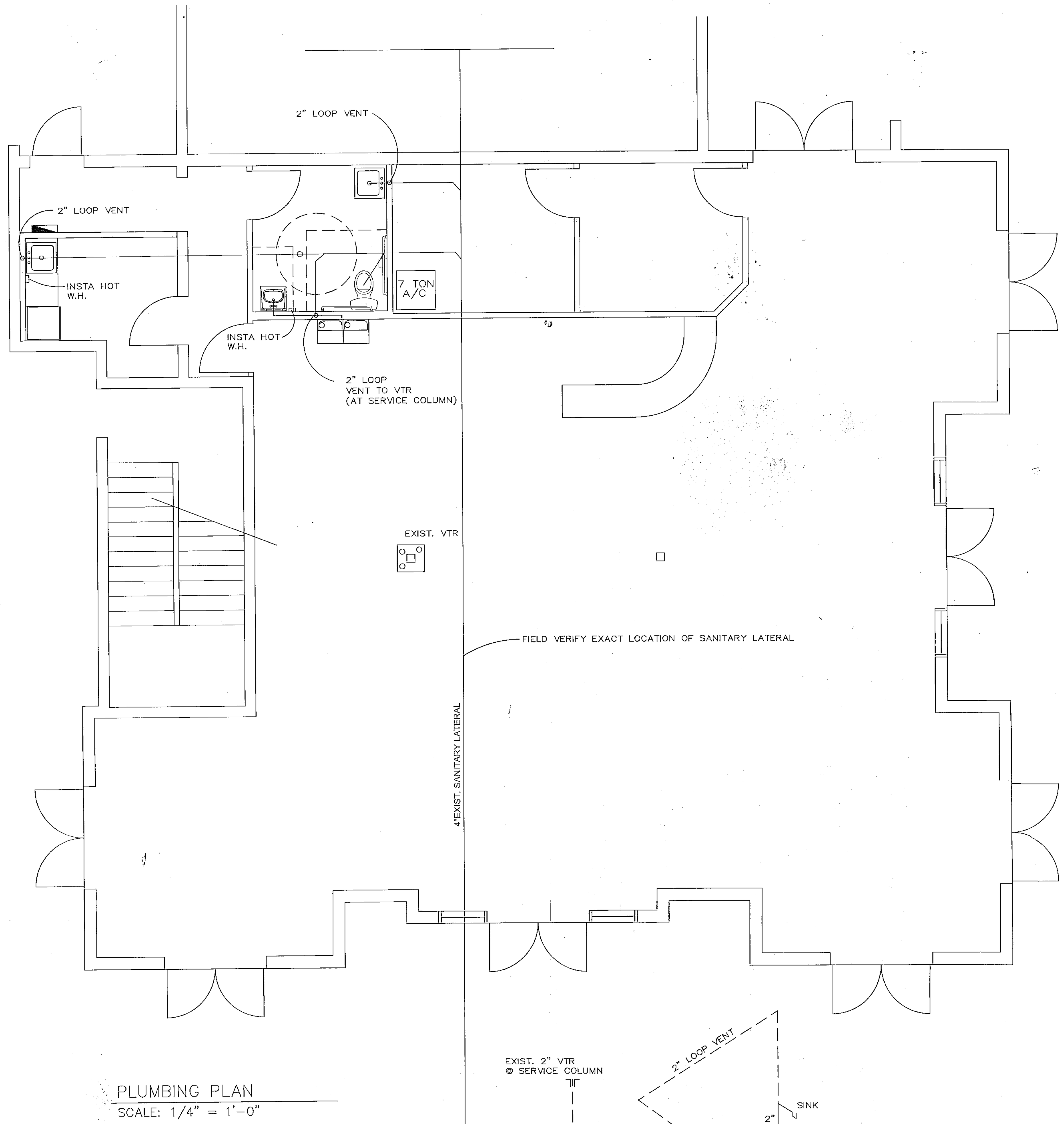
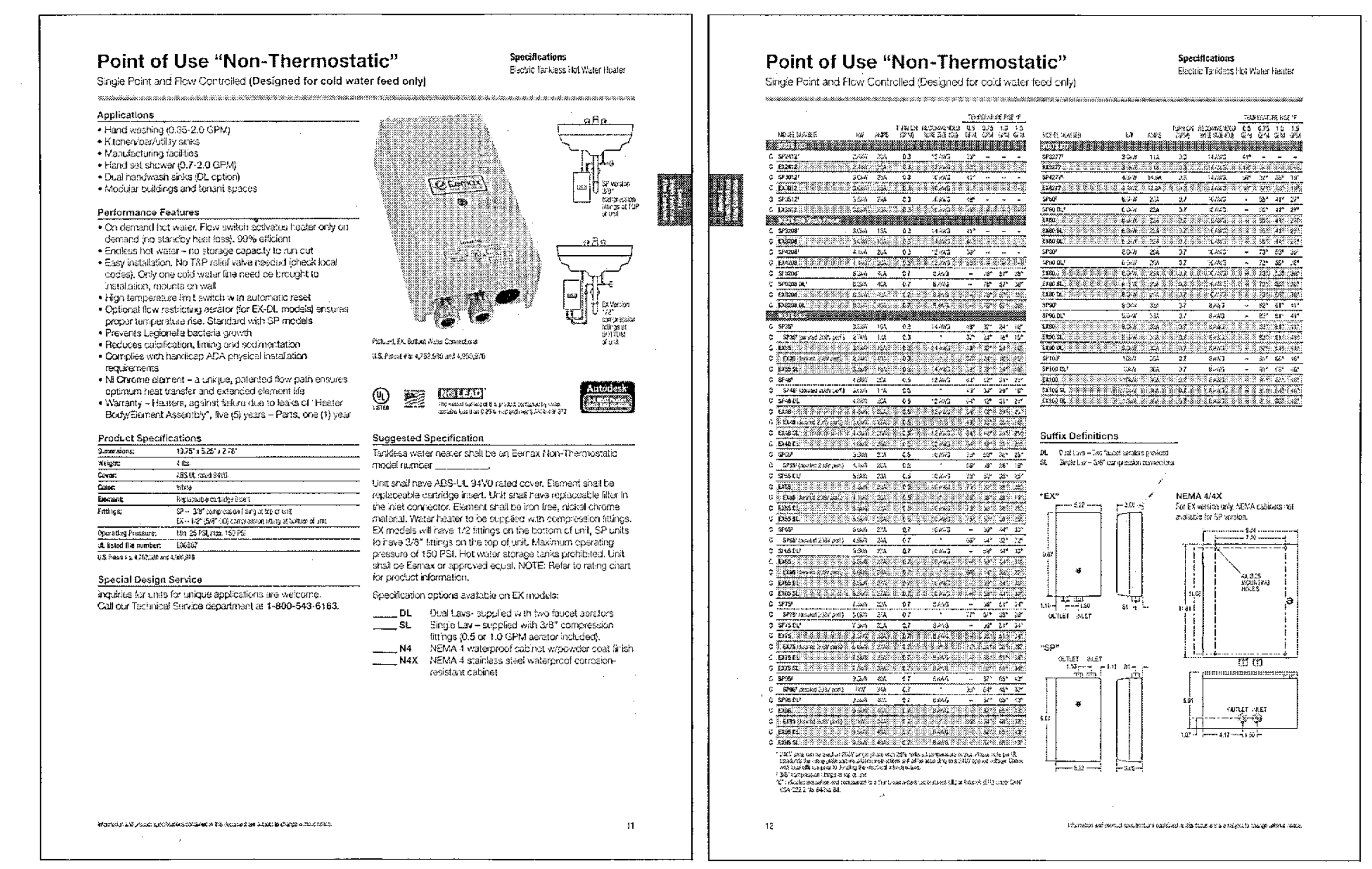
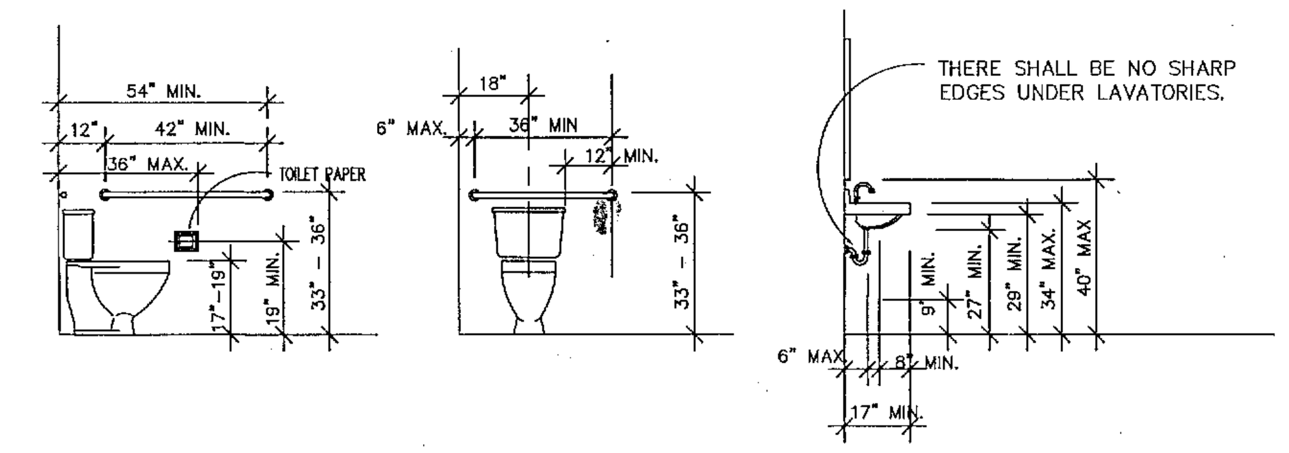


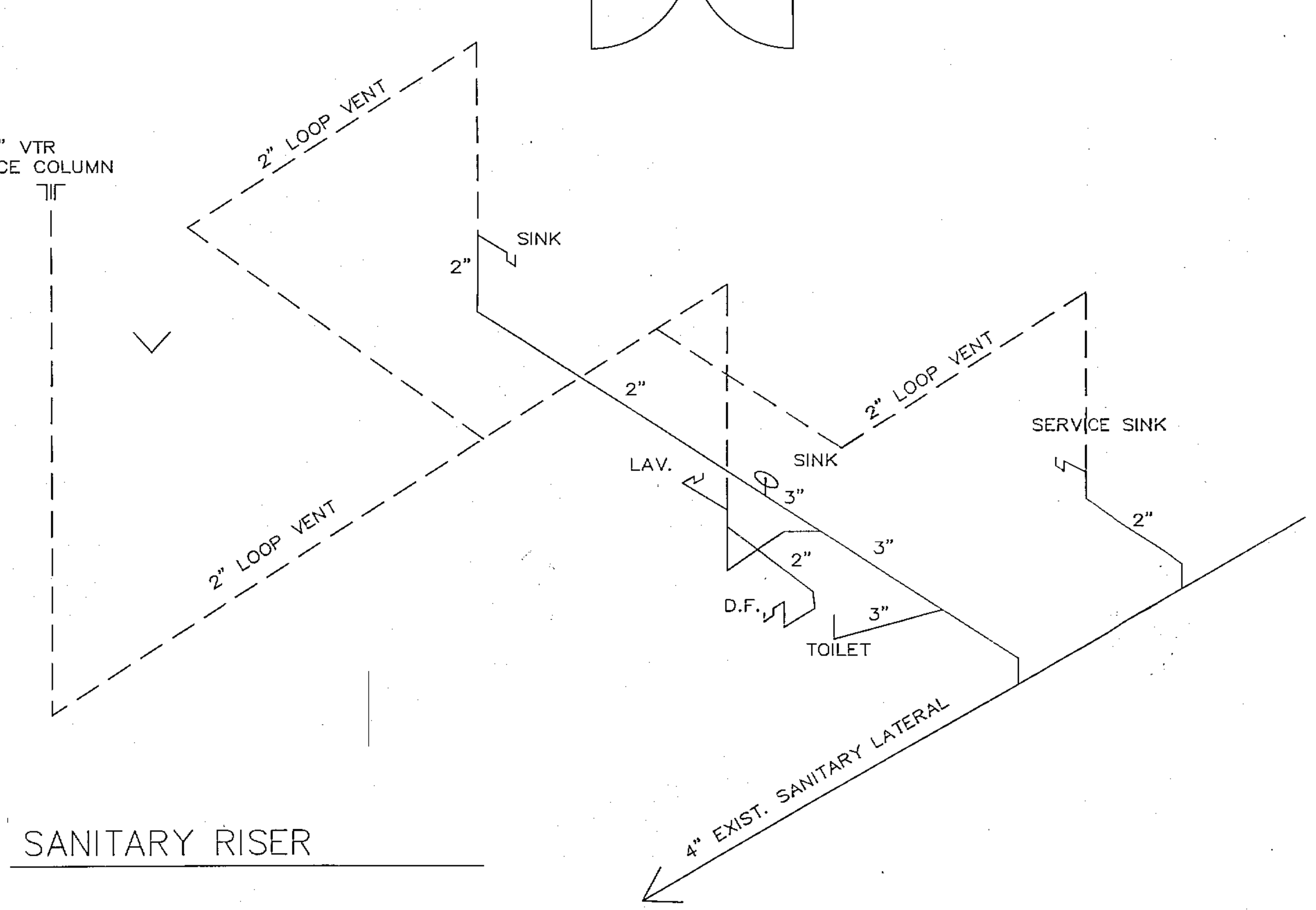
PLUMBING PLAN
SCALE: 1/4" = 1'-0"



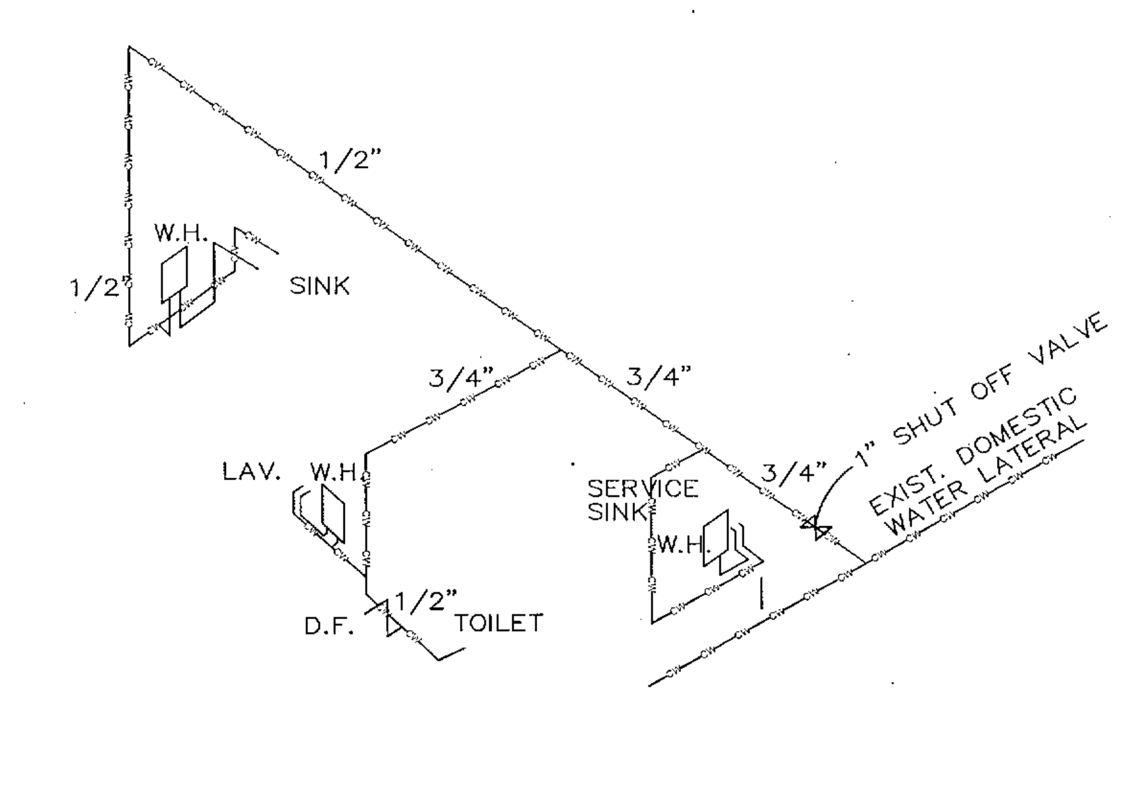


H.C. FIXTURES AND ACCESSORIES – MOUNTING HEIGHTS

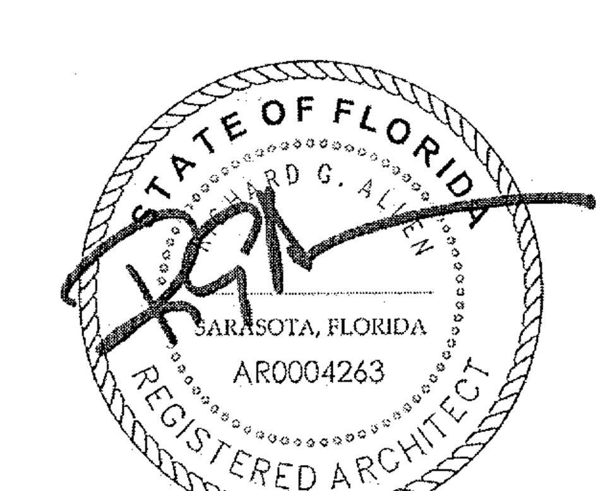
NOTE: ILLUSTRATIONS ARE INTENDED TO INDICATE MOUNTING HEIGHTS AND REQUIRED CLEARANCES ONLY.
PROVIDE LEVER STYLE HANDLE AT FAUCET
GRAB BARS TO BE BETWEEN 1 1/4" – 1 1/2" DIAMETER, SPACE BETWEEN THE WALL AND GRAB BAR SHALL BE 1 1/2", GRABS BARS TO BE MOUNTED BETWEEN 33" – 36" ABOVE FIN. FLOOR
PROVIDE FOAM OR FIBER INSULATION W/ PROTECTIVE OVERWRAP ON DRAIN, HOT WATER SUPPLY AND SHARP EDGES.



SANITARY RISER



DOMESTIC WATER RISER



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RICHARD ALLEN INC.
2623 TEMPLE STREET
SARASOTA, FL

ATLANTIC
3976 DESTINATION DRIVE
OSPREY, FLORIDA

REVISIONS

DATE: 6 – 17 – 22
DRAWN:
CHECKED:

JOB NO.

SHEET NO.
P1
OF