

PERMIT NUMBER: B 22002720

DATE ACCEPTED:

DILP 2022 III



COMMERCIAL BUILDING PERMIT APPLICATION

HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS

3430 COURT HOUSE DRIVE, ELLICOTT CITY, MD 21043 - PHONE: (410) 313-2455 OPTION #4
www.howardcountymd.gov

BUILDING SITE ADDRESS REQUIRED

Street Address: 8815 Centive Park Drive OFF 120		Unit: 130
City: Columbia	State: MD	Zip Code: 21045
Subdivision/Village/Complex Name:		SDP/WP/BA #:
Lot:	Tax Map:	Parcel:
		Grading Permit #:

DESCRIPTION OF WORK REQUIRED

Existing Use: Office	Proposed Use: Hair Salon	Estimated Cost: \$ 15,000
Trade Work to Be Completed (Separate Permits Required): <input type="checkbox"/> Mechanical (HVACR) <input type="checkbox"/> Electrical <input type="checkbox"/> Plumbing <input type="checkbox"/> None		
Interior renovations of office suite, new added sinks, hand wash stations, mail rooms		

PROPERTY OWNER INFORMATION REQUIRED

Owner(s) Name(s) (As it appears on tax records): Dorothy K. ...		
Owner's Street Address:		
City: ...	State: MD	Zip Code: 21043
Phone: ...	Email: ...	

TENANT INFORMATION REQUIRED

Business Name: Deva Hair Salon		Contact Name: info@aidesignsdc.com
Street Address: 14300 Cherry Lane		
City: Laurel	State: MD	Zip Code: 20707
Phone: 703-625-5465	Email: ...	

APPLICANT NAME REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION

Business Name:		Contact Name: ...
Street Address: 14300 Cherry Lane		
City: MD Laurel	State: MD	Zip Code: 20707
Phone: 703-635-5465	Email: info@aidesignsdc.com	

CONTRACTOR INFORMATION REQUIRED

Business Name: AIL Group Inc		License #: 05-132200
Licensee's Name: AIL Group Inc		
Street Address: 14300 Cherry Lane		
City: Laurel	State: MD	Zip Code: 20707
Phone: 703 203 - 2256	Email: info@aidesignsdc.com	

ARCHITECT/ENGINEER INFORMATION REQUIRED - INDIVIDUAL WHO SIGNED PLANS

Business Name: A/I Design		Name: Shayne Lee
Street Address: 14300 Cherry Ln		
City: Laurel	State: MD	Zip Code: 20707
Phone: 571 - 342 - 9843	Email: ...	

BUILDING CHARACTERISTICS (PLEASE SELECT/COMPLETE ALL THAT APPLY)

Utilities: <input type="checkbox"/> Electric <input type="checkbox"/> Gas	Water Supply: <input type="checkbox"/> Public <input type="checkbox"/> Private (Well)	Sewage Disposal: <input type="checkbox"/> Public <input type="checkbox"/> Private (Septic)
Heating System: <input type="checkbox"/> Electric <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane <input type="checkbox"/> Other:		Roadside Tree Project: <input type="checkbox"/> No <input type="checkbox"/> Yes:#
Sprinkler System: <input type="checkbox"/> NFPA 13 <input type="checkbox"/> NFPA 13R <input type="checkbox"/> None		Fire Alarm System: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Voice Evac

ADDITIONAL COMMERCIAL INFORMATION (PLEASE SELECT/COMPLETE ALL THAT APPLY)

Area of Construction: 1,164 sq ft	Gross Area: 1,164 sq ft	Height: ft	# of Stories: 1
Construction Classification(s):		Use Group:	
Was the tenant space previously occupied? <input type="checkbox"/> Yes <input type="checkbox"/> No		Shell Building Permit # (for interior completions):	

ADDITIONAL MULTI-FAMILY INFORMATION IF APPLICABLE

# of efficiency units (MF):	# of 1 BR (MF):	# of 2 BR (MF):	# of 3 BR (MF):
Energy Method: <input type="checkbox"/> Performance <input type="checkbox"/> UA Alternative <input type="checkbox"/> ERI <input type="checkbox"/> A 90.1		Gross Area: sq ft	Occupiable Area: sq ft

AGREEMENT/ DISCALIMER REQUIRED

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES

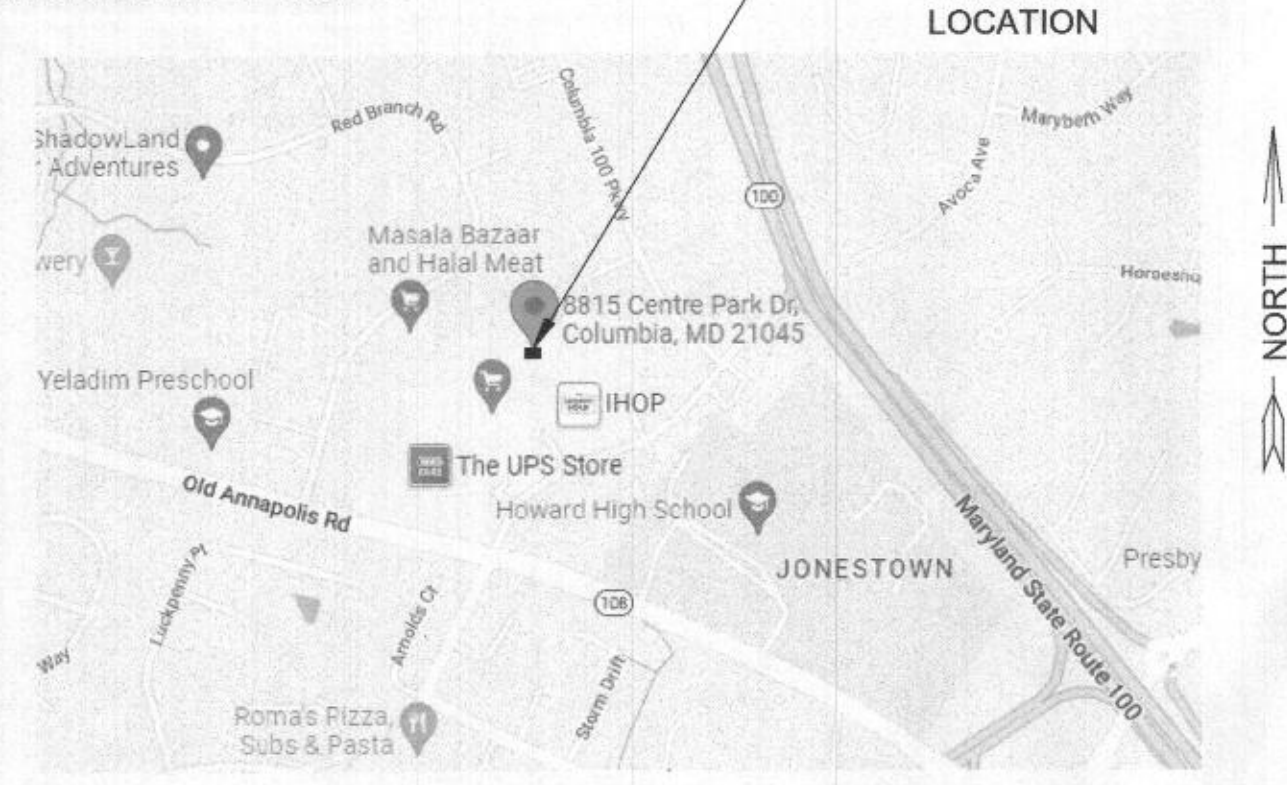
APPLICANT'S ORIGINAL SIGNATURE: _____ DATE SIGNED: 07/06/2022

FOR OFFICE USE ONLY CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY

AGENCIES REQUIRED/APPROVALS:					
<input type="checkbox"/> DPZ	<input type="checkbox"/> DED	<input checked="" type="checkbox"/> Health	<input type="checkbox"/> SHA	<input type="checkbox"/> CID	
FEES: \$200.00	PAYMENT: CK # 1554	ACCEPTED BY: [Signature]			

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VICINITY MAP



DEVA HAIR SALON

8815 CENTRE PARK DR. SUITE 130, COLUMBIA, MD 21045

A&I
Design

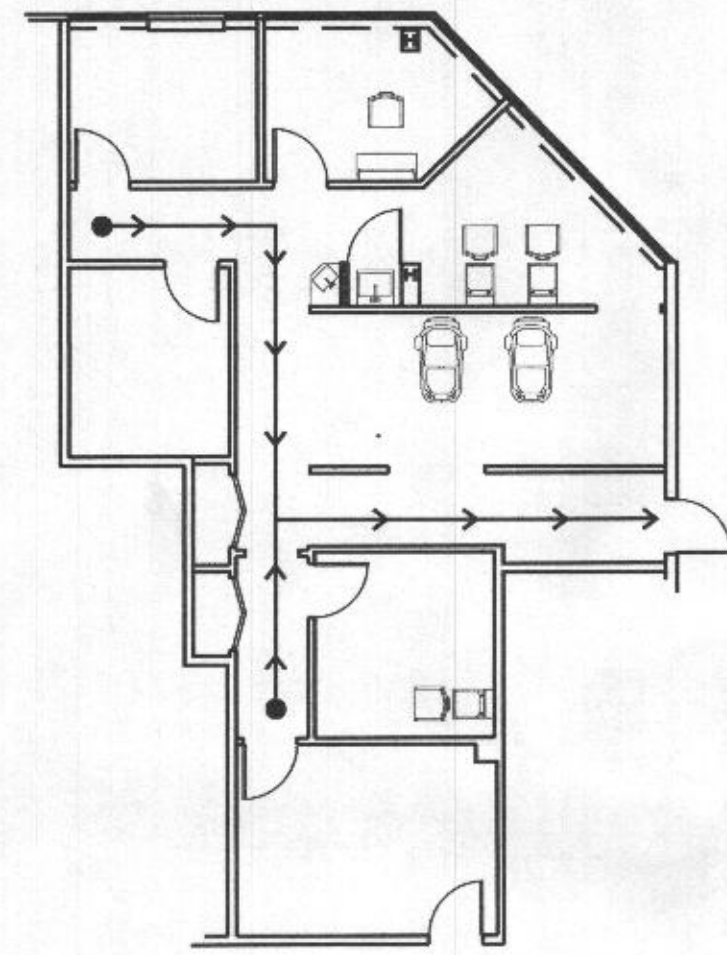
architecture & interiors planning

14300 CHERRY LANE CT. LAUREL, MD 20707
Tel: 703.999.2277 INFO@adeignai.com

Deva
Hair Salon

8815 Centre Park Drive, STE 130
Columbia, MD 21045

EGRESS PLAN N.T.S.



EGRESS DISTANCE
MAX. EGRESS DISTANCE: 90'
PROPOSED MAX. EGRESS DISTANCE: 47'
MAX. COMMON PATH OF EGRESS TRAVEL: 100'
PROPOSED COMMON PATH OF EGRESS TRAVEL: 21'

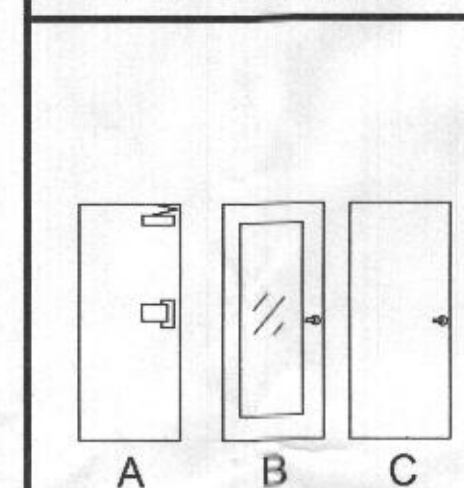
CODE ANALYSIS

SCOPE OF WORK	: NEW TENANT LAYOUT FOR HAIR SALON	
USE GROUP	EXISTING EMPTY	NEW HAIR SALON (B)
CONSTRUCTION TYPE	II B	II B
BUILDING NO. OF FLOORS	1	1
HIGH RISE	NO	NO
COVERED MALL	NO	NO
RENOVATION AREA	1,164 S.F.	1,164 S.F.
FULLY SPRINKLERED	YES	YES
ALARM SYSTEM	NO	NO
PARKING	EXISTING	EXISTING
APPLICABLE CODES	2021 International Building Code 2021 International Residential Code CB71 IRC 2021 International Energy Conservation Code 2021 International Mechanical Code 2021 International Plumbing Code CB72 Plumbing 2021 NFPA 101 Life Safety Code	
OCCUPANT LOAD	2021 International Building Code (Table 1004.1.2) Table 7.3.1.2 of NFPA 101	
	OFFICE 150 S.F. / 150 S.F. = 1 PERSON PRIVATE/EYE LASH/MASSAGE 350 S.F. / 100 S.F. = 3.5 PERSON PEDICURE/HAIR WASH/SALONS 400 S.F. / 100 S.F. = 4 PERSON TOTAL OCCUPANCY LOAD = 8.5 = 9 PERSON	

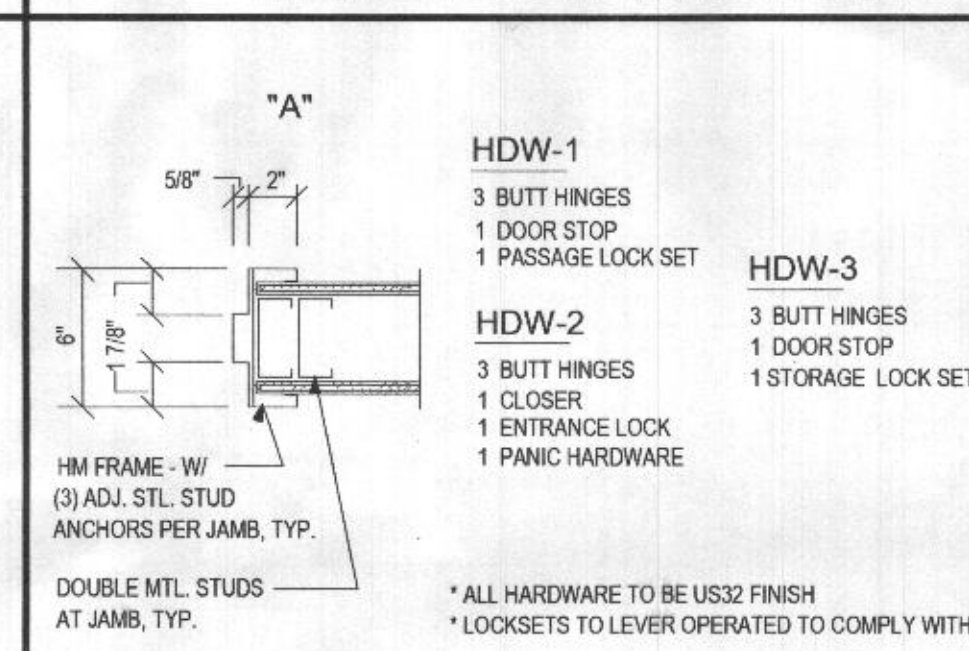
DOOR SCHEDULE

DOOR NO.	DOOR LOCATION	DOOR					FRAME			FIRE RATING	HDW SET	REMARKS
		SIZE	MAT'L	TYPE	DETAILS							
		WIDTH	HEIGHT	THICK			JAMB	HEAD	SILL			
FIRST FLOOR												
E1	MAIN ENTRANCE	3'-0"	7'-0"	1-3/4"	WD	A	-	-	-	ALUM	-	EXISTING DOOR TO REMAIN
E2	ROOMS	3'-0"	7'-0"	1-3/4"	WD W/ GLS	B	-	-	-	WD	-	EXISTING DOOR TO REMAIN
D1	JANITOR CLOSET	3'-0"	7'-0"	1-3/4"	WD	C	-	-	-	WD	-	

DOOR TYPE



DOOR JAMB & HARDWARE



FINISH SCHEDULE

PROVIDE "CLASS C" INTERIOR. MATERIALS COMPLY WITH IBC 2021 SECTION 903.1, 903.11 AND TABLE 903.9

ROOM NO.	ROOM NAME	FLOOR	BASE	WALL	CEILING	HEIGHT	REMARKS
FIRST FLOOR							
01	OFFICE		EX.TILE	EX.VCT	EX.PAINT	EXACT	SEE RCP
02	PRIVATE		EX.TILE	EX.VCT	EX.PAINT	EXACT	SEE RCP
03	MESSAGE,EYE		EX.TILE	EX.VCT	EX.PAINT	EXACT	SEE RCP
04	HAIR SALON		EX.TILE	EX.VCT	EX.PAINT	EXACT	SEE RCP
05	WASH/PEDI		EX.TILE	EX.VCT	EX.PAINT	EXACT	SEE RCP
06							

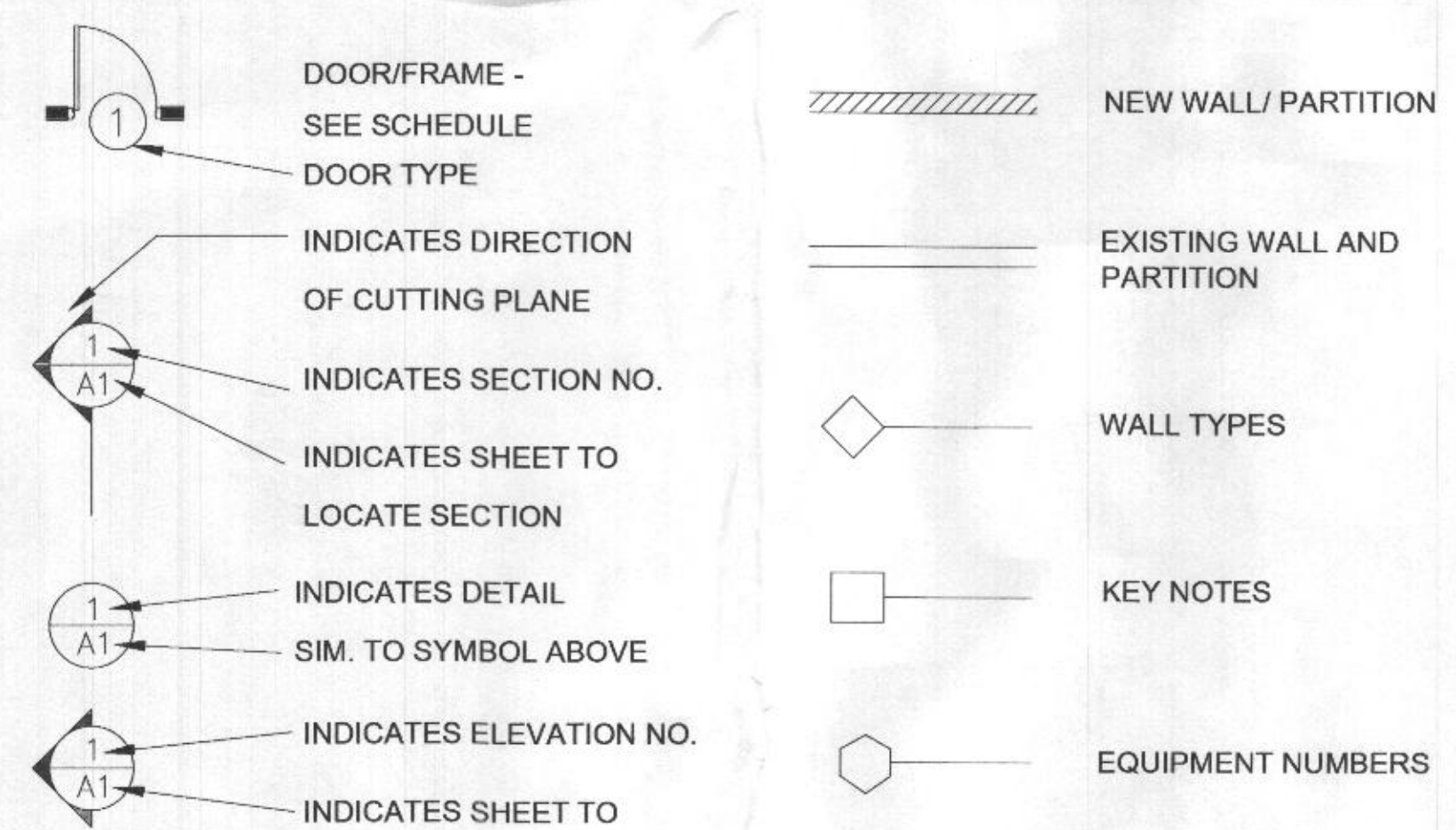
GENERAL NOTES

- THIS SPACE SHALL BE CONSTRUCTED UNDER THE FOLLOWING IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND BUILDING CODE AND THE IBC 2021.
- THE CONTRACTOR SHALL VISIT THE SITE TO HAVE A COMPLETE UNDERSTANDING OF THE SCOPE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO START OF CONSTRUCTION AND WILL BE RESPONSIBLE FOR THE SAME. ANY DISCREPANCY WILL BE INFORMED TO THE ARCHITECT IN WRITING FOR HIS CORRECTION.
- ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE BOCA BUILDING CODE AND OTHER IBC CODES THAT ARE APPLIED.
- DO NOT SCALE DRAWINGS.
- ALL PLAN DIMENSIONS TO CENTER LINE OF PARTITION UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE CONSTRUCTION.
- FLOOR, WALL AND CEILING FINISHES SHALL EXTEND OVER, UNDER OR BEHIND ANY ITEM OF EQUIPMENT, FURNITURE, TC. AS INDICATED IN THE DRAWINGS.
- COORDINATE LOCATION OF CEILING DIFFUSES LIGHT FIXTURES, LOCATIONS, ETC., SO AS NOT TO INTERFERE WITH EACH OTHER.
- NO WOOD OF ANY KIND EXCEPT FIXTURES AND FURNITURE SHALL BE USED IN THIS BUILDING EXCEPT FOR BLOCKING, GROUNDS, BACK BOARDS, ETC. WHICH SHALL BE FIRE RETARDANT TREATED.
- REPAIR, REPLACE AND/OR REFINISH ANY DAMAGE TO THE EXISTING BUILDING CAUSED BY NEW CONSTRUCTION
- DO NOT DISTURB OR DISRUPT UTILITIES SERVING THE EXISTING BUILDING.
- ALL MILLWORK TO CONFORM TO A.W.I. STANDARD FOR CUSTOM GRADE.
- COORDINATE ALL MECHANICAL, PLUMBING, AND ELECTRICAL WORKS WITH THE ARCHITECTURAL AND EQUIPMENT LAYOUT.
- AFTER THE LANDLORD'S APPROVAL ANY CHANGES OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS OR THE TENANTS INTERIOR IMPROVEMENTS MUST APPROVED BY THE LANDLORD IN WRITING.
- THE TENANT'S GENERAL CONTRACTOR MUST CONDUCT A PRE-CONSTRUCTION MEETING WITH THE LANDLORD'S ON SITE REPRESENTATIVE PRIOR TO WORK START.
- THE TENANT'S CONTRACTORS WILL REPAINT AND/OR REPAIR THE LANDLORD'S PROPERTY DAMAGED DURING TENANT IMPROVEMENT.
- THE CEILING SYSTEMS ARE TO BE CONSTRUCTED USING MATERIALS WITH A CLASS "A" FIRE RATING BUT ONLY REQUIRE FIRE RATING AS AN ASSEMBLY IN EXIT CORRIDORS AND ANY OTHER LOCATION REQUIRED BY CODE.
- SUPPORT WIRES FOR LAY-IN CEILING GRID, LIGHTS AND HVAC EQUIPMENT, ETC MUST NOT BE CONNECTED TO ANY OF THE LANDLORD'S ELECTRICAL AND PLUMBING AND FIRE PROTECTION PIPING MECHANICAL EQUIPMENT OR ROOF.

MILLWORK NOTES

- SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS WILL SHOW DESIGN, DIMENSIONS, AND CLEARLY INDICATE CONSTRUCTION OF THE VARIOUS COMPONENTS, METHODS OF ASSEMBLY, THICKNESS OF MATERIALS, FINISHES, REINFORCEMENTS AND ALL OTHER PERTINENT DATA AND INFORMATION AS REQUIRED. ANY DEVIATION FROM DRAWINGS MUST BE CLEARLY NOTED ON SHOP DRAWINGS. FABRICATION OF MILLWORK SHALL NOT PROCEED UNTIL THE CONTRACTOR RECEIVES SHOP DRAWING APPROVAL.
- THE METHODS OF MANUFACTURING, FABRICATION AND INSTALLING ALL MILLWORK AND EQUIPMENT AND ITS STRUCTURAL COMPONENTS SHOWN IN THE DRAWINGS IF REPRESENTATIVE AND INDICATE DESIGN INTENT ONLY. IF THE MATERIALS, DETAILS OR DIMENSIONAL PROPERTIES ARE AT VARIANCE WITH THE A.W.I. STANDARDS OR MANUFACTURER'S RECOMMENDATIONS. ALTERNATE DETAILS WILL BE CONSIDERED FOR REVIEW WHEN SHOP DRAWINGS ARE SUBMITTED IN ACCORDANCE WITH THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO GUARANTEE THAT THE MILLWORK AND EQUIPMENT WILL HAVE PROPER SUPPORT, STABILITY AND BUILT FREE PERFORMANCE.
- MILLWORK COVERED IN PLASTIC LAMINATE SHALL BE FABRICATED AND ASSEMBLED BY SKILLED WORKMAN WITH EXPERIENCE IN THE EXECUTION OF SIMILAR WORK, REINFORCING AS REQUIRED TO ENSURE A RIGID AND SECURE ASSEMBLY SHALL BE PROVIDED WHERE NECESSARY, EVEN IF NOT DETAILED ON THE DRAWING. EXPOSED SURFACES SHALL BE FREE FROM DENTS, TOOL MARKS, WARP AGE, BUCKLE, GLUE AND OPEN JOINTS, CORNERS, AND MITER CONNECTIONS SHALL BE MADE UP TIGHTLY SO THAT THREADS ARE ENTIRELY CONCEALED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING CERTAIN THAT MILLWORK ITEMS ARE NOT DELIVERED UNTIL AREAS ARE SUFFICIENTLY DRY SO THAT THE MILLWORK WILL NOT BE DAMAGED BY EXCESSIVE CHANGES IN MOISTURE CONTENT. ALL DELIVERED UNITS SHALL MATCH THE FINAL PROVIDED SHOP DRAWINGS AND SAMPLES. UNITS WHICH ARE MARRED, CHIPPED OR OTHERWISE DAMAGED SHALL BE REPAIRED TO THE COMPLETE SATISFACTION OF TENANT. UNITS SHALL BE PROTECTED DURING SHIPMENT AND INSTALLATION. AFTER INSTALLATION OF UNITS IN THEIR PROPER LOCATION ALL PROTECTION SHALL BE REMOVED AND ALL SURFACES THOROUGHLY CLEANED TO THE COMPLETELY.
- BEFORE PROCEEDING WITH THE MILLWORK, THE MANUFACTURER IS TO OBTAIN FIELD MEASUREMENT AND VERIFY DIMENSIONS AND PROVIDE SHOP DRAWING DETAILS TO ENSURE AN ACCURATE FIT. ANY VARIANCE OF MORE THAN 2% FOUND IN THE FIELD MUST BE BOUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- ALL DIMENSIONS GOVERNED BY FIELD CONDITIONS SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY, REGARDLESS OF APPROVED SHOP DRAWINGS.
- INSTALL MILLWORK TO BE PLUMB, LEVEL, TRUE AND STRAIGHT, WITH NO DISTORTIONS, SHIM AS REQUIRED USING CONCEALED SHIMS.
- SCRIBE AND CUT WORK TO FIT ADJOINING WORK AND REFINISH CUT SURFACES OR REPAIR DAMAGED FINISH AT CUTS.
- ANCHOR MILLWORK TO BUILT-IN BLOCKING OR DIRECTLY ATTACH TO SUBSTRATE. SECURE TO GROUNDS, STRIPPING AND BLOCKING WITH COUNTER-SUNK, CONCEALED FASTENERS AND BLIND NAILING, AS REQUIRED, FOR A COMPLETE INSTALLATION.
- ALL MILLWORK SHALL BE MANUFACTURED TO AWI CUSTOM GRADE. APPROPRIATE DETAILS AND MATERIALS SHALL BE USED.
- ALL MILLWORK REQUIRING BLOCKING IN CONCEALED WALLS SHALL BE USED.
- ALL WOOD BLOCKING SHALL TREATED TO MEET ALL APPLICABLE FIRE CODES, IF REQUIRED.
- ALL STAINED CABINET UNITS, INCLUDING SPECIAL PANELS, SHALL HAVE THE SPECIES, TYPE AND CUT OF THE WOOD REQUIRED CLEARLY NOTED ON THE SHOP DRAWINGS.

ARCH. SYMBOLS



LIST OF DRAWINGS

C000	COVER SHEET
A000	ENTIRE GROUND FLOOR PLAN
A001	FLOOR/CEILING PLAN
M001	MECHANICAL NOTE/PLAN
P001	PLUMBING NOTE
P002	PLUMBING PLAN - SANITARY/WATER
E001	ELECTRICAL PLAN - NO ALTERATION

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JUL 07 2022
LICENSES & PERMITS
DIVISION

PERMIT SET



7/01/2022

PROFESSIONAL CERTIFICATION:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, ARCHITECT UNDER THE LAWS OF THE STATE OF MD, LICENSE # 17803, EXPIRATION DATE 07/13/24

Job #

Date: 6/15/2022 Issue: PERMIT SET

Approved
RM 6/15/2022
B22002726

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Scale: _____

Sheet Title:

COVER PAGE

Sheet #

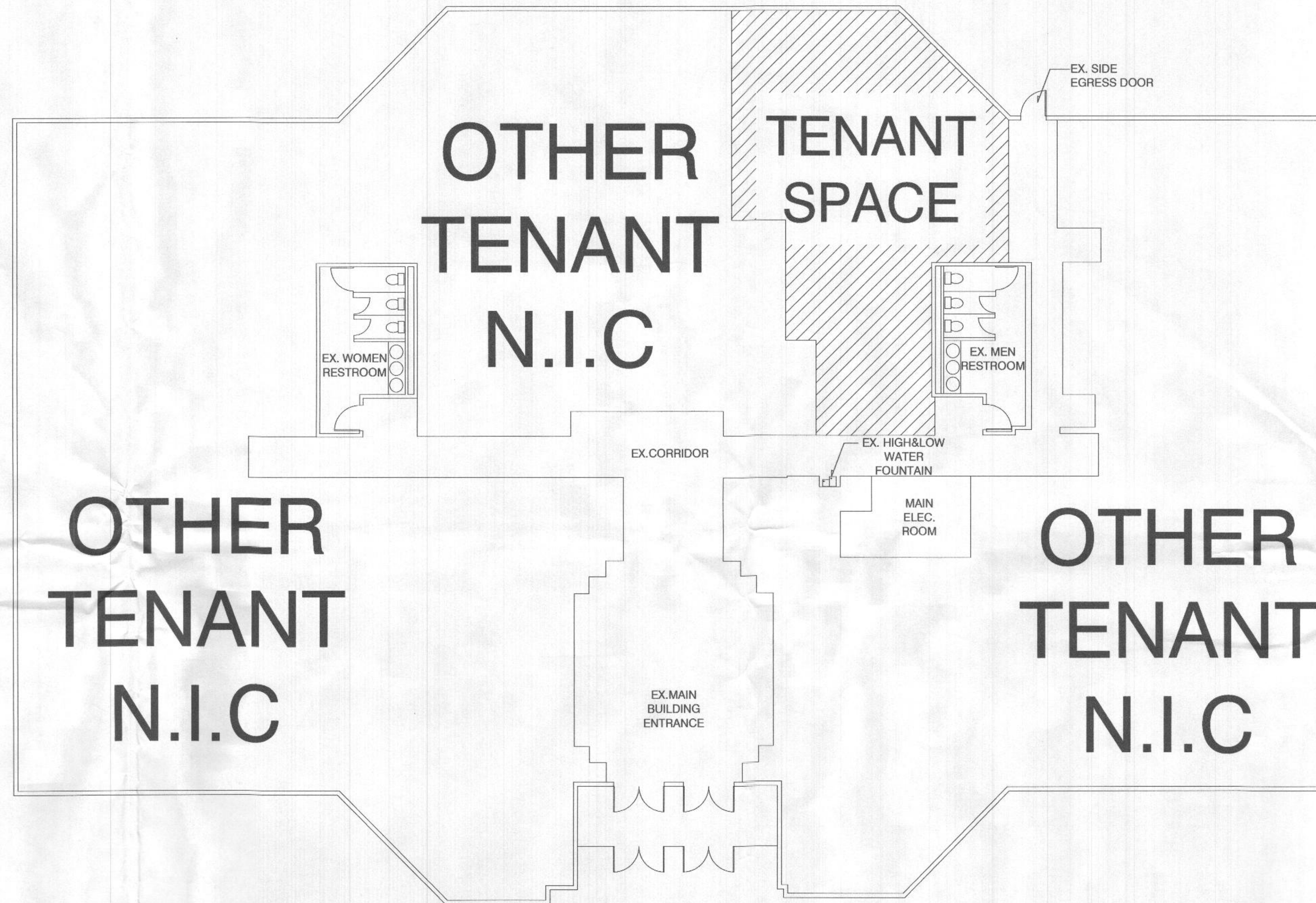
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Job #

Date: 6/30/2022 Issue: PERMIT SET



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

NOTE:

THIS PLAN IS BASED ON LANDLORD PLAN.
ACCESSIBLE WATER FOUNTAIN IS WITHIN 10FT FROM THE TENANT SPACE.
ACCESSIBLE RESTROOMS ARE WITHIN MAXIMUM 60 FT FROM THE TENANT SPACE.

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DIVISION

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KEYED PLAN

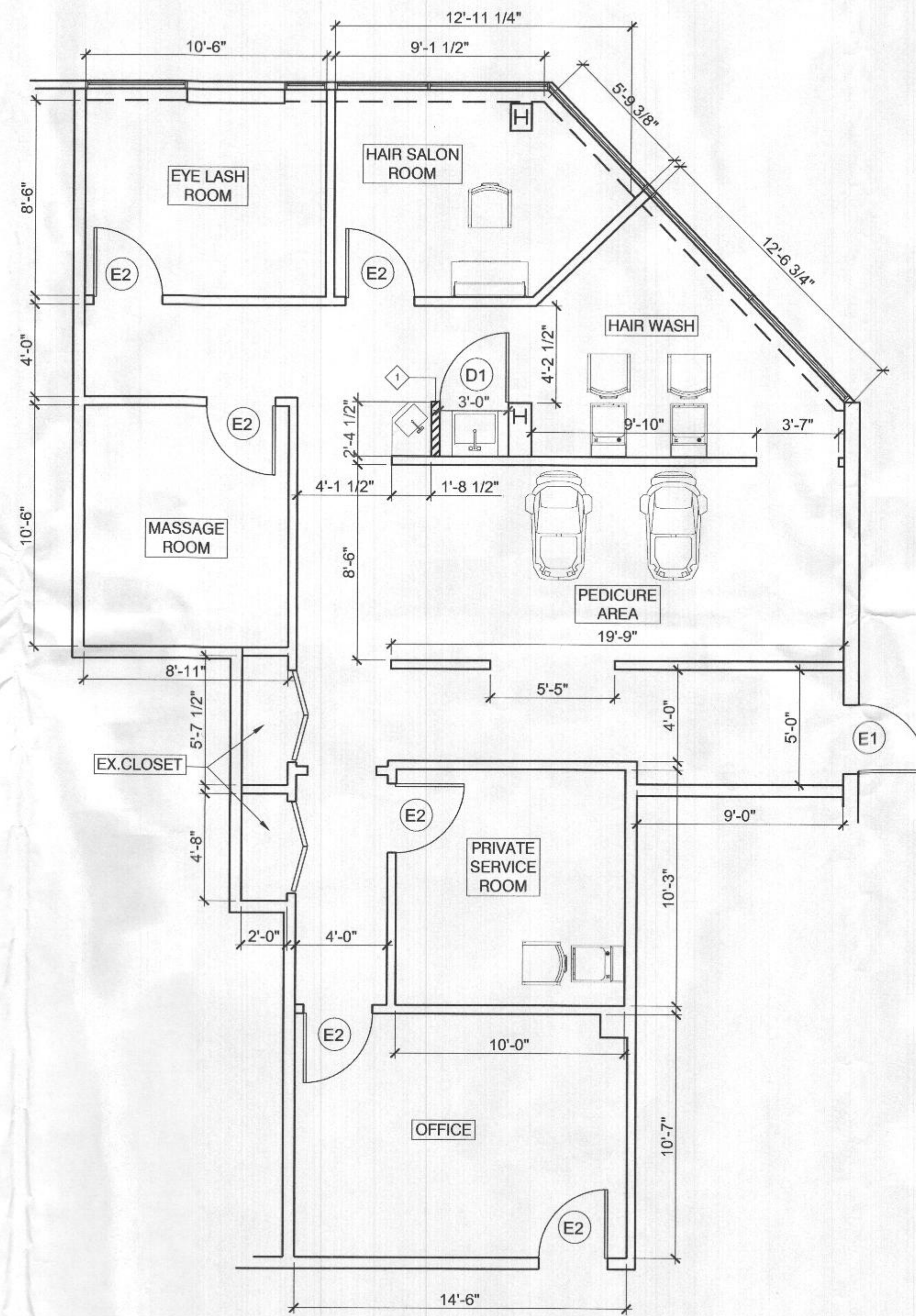
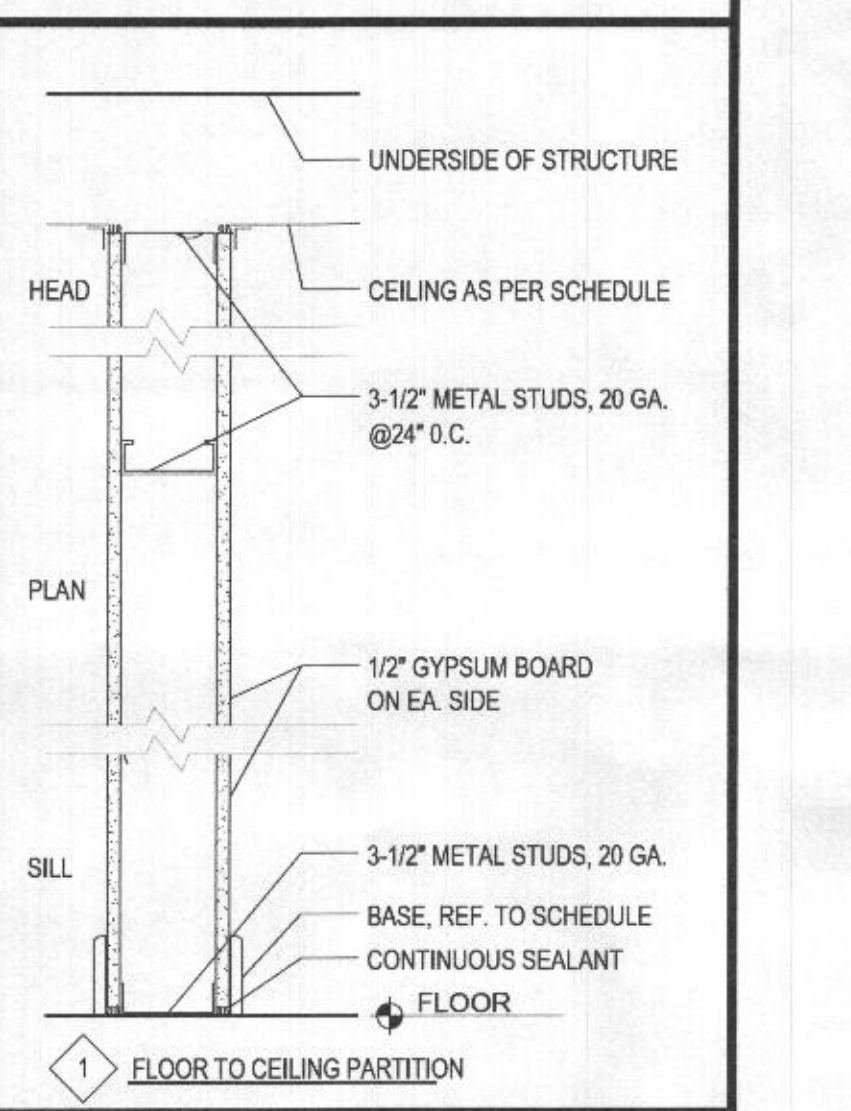
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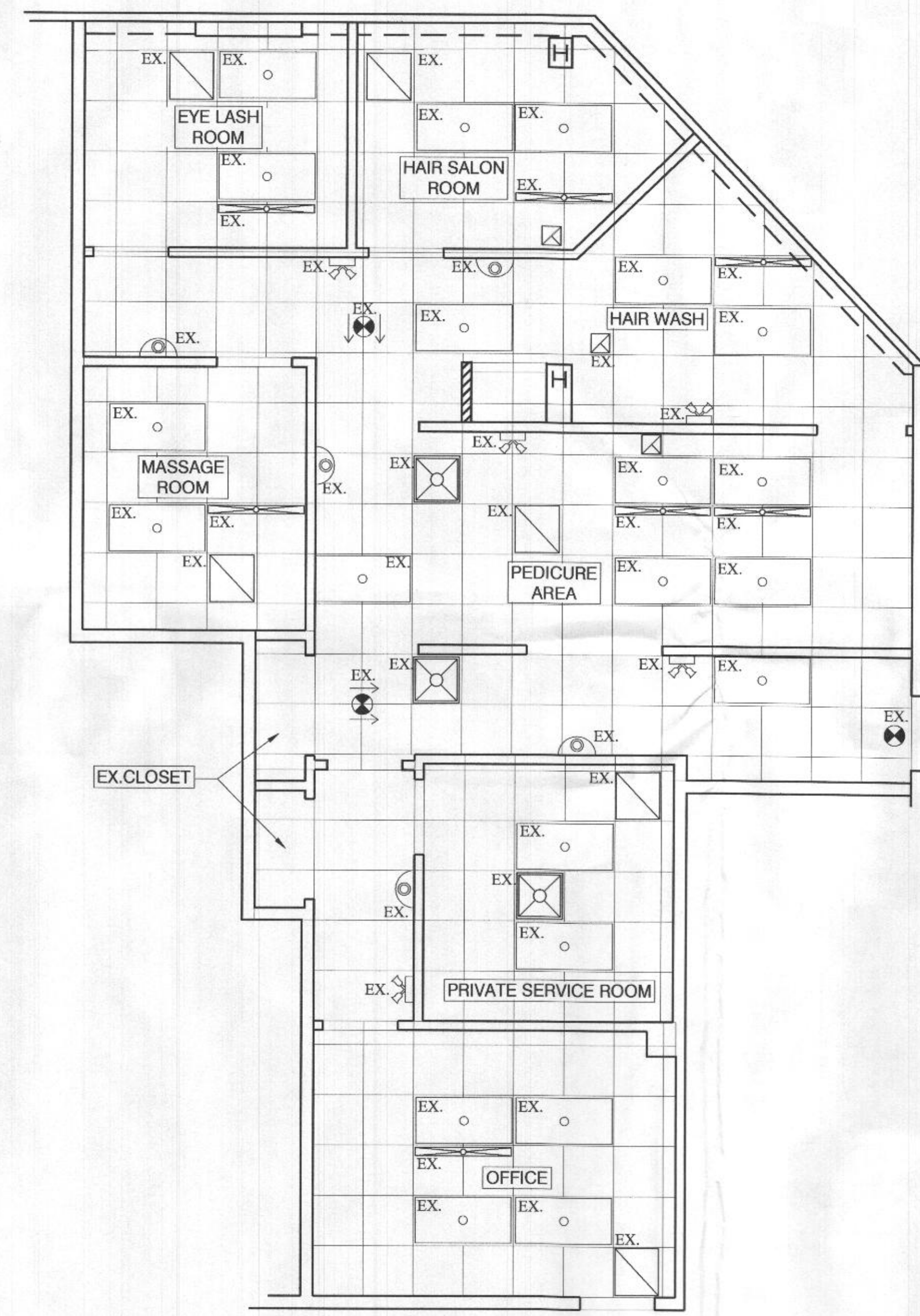
LEGEND:

-  EXISTING WALL
-  NEW WALL
-  2X4 FLUORESCENT LIGHT FIXTURE
-  WALL MOUNTED LIGHT FIXTURE
-  EMERGENCY LIGHTING
-  EMERGENCY EXIT SIGN
-  CEILING SUPPLY REGISTER
-  CEILING RETURN REGISTER
-  CEILING EXHAUST FAN

WALL TYPE



1 PROPOSED FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

NOTE:
NO ALTERATION ON CEILING PLAN
ALL FIXTURES ARE EXISTING TO REMAIN

A&I
Design

architecture & interiors planning
14300 CHERRY LANE CT. LAUREL, MD 20707
Tel. 703.909.2227 INFO@A&IDesignDC.com

Deva
Hair Salon

8815 Centre Park Drive, STE 130
Columbia, MD 21045



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ARCHITECT UNDER THE LAWS OF THE
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Job #
Date: 6/30/2022 Issue: PERMIT SET

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Scale: _____
Sheet Title:
FLOOR/CEILING PLAN
Sheet #

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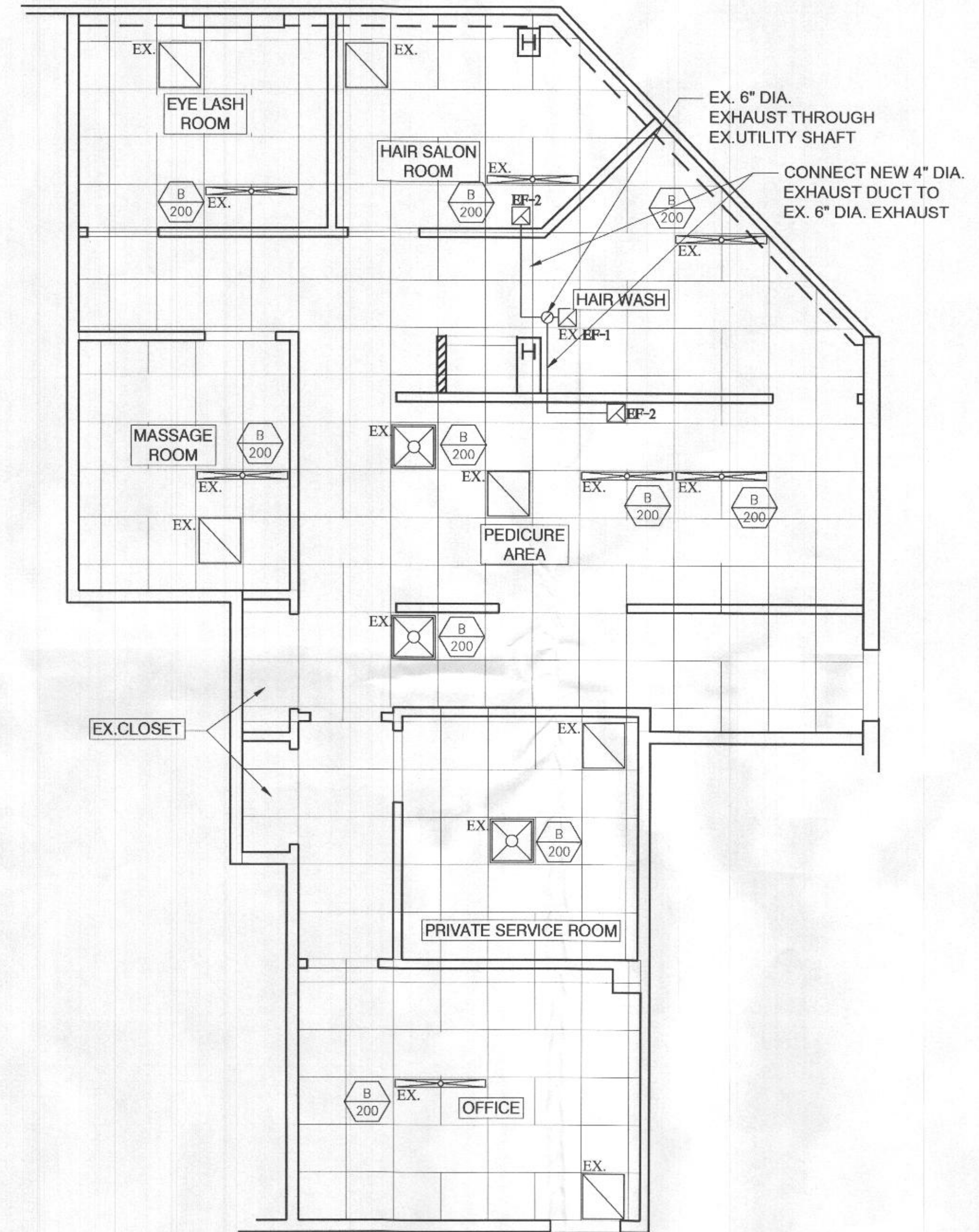
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MECHANICAL GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE CODE REQUIREMENTS, & LOCAL AUTHORITIES.
- PRIOR TO BID, THE CONTRACTOR SHALL EXAMINE ALL PROJECT DOCUMENTS TO DEVELOP A COMPLETE UNDERSTANDING OF THE PROJECT SCOPE. FAILURE TO REVIEW ALL CONTRACT DRAWINGS & EXISTING CONDITIONS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM ALL WORK REQUIRED. THE CONTRACTOR SHALL, UPON REVIEW OF THE DRAWINGS & EXISTING CONDITIONS, ADVISE THE OWNER OF ANY DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED.
- IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INDICATE FINISHED WORK THAT IS FULLY ADJUSTED, TESTED, & READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH & INSTALL COMPLETE & READY FOR USE", UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL FURNISH & INSTALL THE COMPLETE & FUNCTIONAL SYSTEMS REQUIRED, INCLUDING EQUIPMENT, CONTROLS, DUCTWORK, PIPING, WIRING, VALVES, & ALL OTHER APPURTENANCES & HARDWARE FOR A COMPLETE SYSTEM.
- THE CONTRACTOR SHALL FURNISH & INSTALL ALL ITEMS NECESSARY FOR THE COMPLETE INSTALLATION OF THE EQUIPMENT AS REQUIRED BY CODE WITHOUT ADDITIONAL COST TO THE OWNER, REGARDLESS WHETHER THE ITEMS ARE INDICATED IN THE CONTRACT DRAWINGS OR SPECIFICATIONS. SUCH ITEMS COULD BE, BUT ARE NOT LIMITED TO, SUPPORTS, INSULATION, WIRING, LUBRICATION, MOTOR CONTROLLERS, REFRIGERANTS, START-UP & SERVICE, ETC.
- THE CONTRACTOR SHALL FURNISH & INSTALL A FIRST CLASS SYSTEM & SHALL COMPLETELY COORDINATE WITH ALL OTHER TRADES.
- ALL CONFLICTS WHICH MAY PREVENT THE COMPLETION OF WORK SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL NOT PROCEED WITH RELATED WORK UNTIL THE CONFLICT IS RESOLVED.
- THE CONTRACTOR SHALL INSTALL ALL MECHANICAL & ELECTRICAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- THE CONTRACT DRAWINGS ARE DIAGRAMMATIC & DO NOT INDICATE ALL COMPONENTS & ACCESSORIES REQUIRED FOR THE COMPLETE INSTALLATION. THE CONTRACTOR SHALL PROVIDE SUCH ITEMS TO COMPLETE THE ENTIRE SYSTEM & PLACE IN PROPER OPERATION IN ACCORDANCE WITH APPLICABLE CODES, INDUSTRY STANDARDS, & EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- LOCATIONS OF EQUIPMENT, PIPING, VALVES, ETC. ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN EXACT LOCATIONS & ESTABLISH EXACT DIMENSIONS ON THE JOB SITE AFTER STUDYING THE CONDITIONS.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS & ARRANGE FOR ALL INSPECTIONS BY LOCAL AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL INSTALL ALL AIR DISTRIBUTION SYSTEMS SO AS TO NOT INTERFERE WITH THE PLUMBING, STRUCTURAL, ELECTRICAL, & ARCHITECTURAL SYSTEMS. THE CONTRACTOR SHALL COORDINATE THIS PROJECT REQUIREMENT.
- ALL AIR SYSTEMS SHALL BE BALANCED & TESTED BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT. IT SHALL BE ESTABLISHED THAT ALL EQUIPMENT IS CAPABLE OF OPERATING AT THE DESIGN CAPACITY & ALL CONTROLS ARE OPERATING TO THE SATISFACTION OF THE OWNER. ALL SYSTEMS SHALL BE CHECKED FOR EXCESSIVE NOISE OR VIBRATION & ALL SUCH CONDITIONS BE CORRECTED BY THE CONTRACTOR. BALANCING CONTRACTOR SHALL BE NEBB OR AABC CERTIFIED. THE CONTRACTOR SHALL SUBMIT A CERTIFIED BALANCING REPORT TO THE OWNER UPON COMPLETION OF THE PROJECT.
- THE MECHANICAL CONTRACTOR SHALL FURNISH & INSTALL MOTOR STARTERS FOR MECHANICAL EQUIPMENT & THE EQUIPMENT SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.
- THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS, EQUIPMENT, & RELATED ITEMS FOR A PERIOD AFTER COMPLETION OF THE PROJECT & REPLACE ANY DEFECTIVE MATERIALS, EQUIPMENT, & RELATED ITEMS WITHIN THE GUARANTEE PERIOD. THE PERIOD SHALL BE TWELVE MONTHS FROM THE COMPLETION OF THE PROJECT UNLESS SPECIFIED OTHERWISE IN THE SPECIFICATIONS OR CONTRACT DOCUMENTS.
- ALL CONTRACT DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, & PLUMBING ARE COMPLEMENTARY & MUST BE USED IN COMBINATION BY THE CONTRACTOR TO OBTAIN COMPLETE CONSTRUCTION INFORMATION & PROVIDE A COMPLETE OPERABLE SYSTEM.
- FLEXIBLE DUCTWORK SHALL NOT EXTEND THROUGH FULL HEIGHT PARTITIONS. CONTRACTOR SHALL EXTEND RIGID ROUND DUCTWORK THROUGH FULL HEIGHT PARTITIONS BEFORE CONNECTING FLEXIBLE DUCTWORK.
- THE CONTRACTOR SHALL SEAL ALL LEAKS IN DUCTWORK & EXISTING DUCTWORK TO REMAIN. THE CONTRACTOR SHALL CAP & SEAL ALL UNUSED TAPS & OPENINGS IN THE EXISTING DUCTWORK.
- THIS DESIGN DOES NOT ACCOUNT FOR THE EVALUATION OF EXISTING FCU TERMINAL PERFORMANCE. MODIFICATION IN AIR DISTRIBUTION TO RENOVATED SPACE IS BASED ON 55°F(COOLING) & 85°F(HEATING) FROM EXISTING AHU.
- VENTILATION FOR THE RENOVATED CORE SPACE WILL BE PROVIDED VIA EXISTING OUTSIDE AIR DUCTWORK. OUTSIDE AIR DAMPER AT EACH FCU TERMINAL SHALL BE SET TO PROVIDE REQUIRED VENTILATION AS INDICATED IN M-2.
- ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA (SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION) DUCT STANDARDS & ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATING, & AIR CONDITIONING ENGINEERS) RECOMMENDATIONS. IN CASE SIZE OF DUCTWORK IS NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR MAY REQUEST THE SIZE FROM THE OWNER'S REPRESENTATIVE. THE SHAPE OF THE DUCT MAY BE CHANGED WHEN APPROVED BY THE OWNER'S REPRESENTATIVE & THAT THE STATIC LOSS WITHIN THE DUCT IS NOT CHANGED. RIGIDITY CLASS, DIMENSIONS OF TRANSVERSE JOINTS & INTERMEDIATE REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE PHYSICAL SPACE LIMITATIONS OF PROJECT. THE ENTIRE AIR DISTRIBUTION SYSTEM INCLUDING ALL BRANCH DUCTWORK & DIFFUSER CONNECTIONS SHALL BE SEALED AS REQUIRED TO PREVENT AIR LEAKAGE IN EXCESS OF 5%. DUCT SEALANT HAVE A FIRE HAZARD RATING NOT TO EXCEED 25 FLAME SPREAD & 50 SMOKE DEVELOPED. FIBERGLASS DUCTWORK WILL NOT BE ACCEPTABLE.
- ALL DUCTWORK DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS. DUCTWORK SIZES SHOWN DO NOT ACCOUNT FOR DUCTWORK LINER OR INSULATION WRAP THICKNESS.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL NEW SUPPLY AND RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH A FIBERGLASS FLEXIBLE BLANKET TYPE OF INSULATION 0.6 LB DENSITY, 1-1/2" THICK WITH VAPOR BARRIER FACING.
- ALL NEW FLEXIBLE DUCT SHALL BE INSULATED WITH FIBERGLASS VAPOR JACKET HAVING A MAXIMUM THERMAL CONDUCTIVITY (K) OF 0.23 AT 75 DEGREES F. NEW FLEXIBLE DUCT SHALL BE WOUND SPIRAL ALUMINUM HELIX OR REINFORCED ALUMINUM FOIL FABRIC LOCKED INTO A SPIRAL ALUMINUM HELIX SUITABLE FOR A POSITIVE WORKING PRESSURE OF AT LEAST 3" W.C. NEW FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 3, TYPE 5, TYPE 8 OR APPROVED EQUAL.
- THE MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL NOT EXCEED 14'-0". WHERE A LENGTH GREATER THAN 14'-0" OCCURS, CONTRACTOR SHALL EXTEND THE DUCTWORK WITH EXTERNALLY INSULATED ROUND SHEET METAL OF THE SAME SIZE AS THE FLEXIBLE DUCT.
- PROVIDE VENTLOCK CONCEALED DAMPER REGULATOR MODEL NO. 677 WITH EXTENSION ROD AND MOUNTING HARDWARE FOR VOLUME DAMPERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS, WITHIN FURRINGS AND AS INDICATED ON THE DRAWINGS.

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
	EXISTING DUCTWORK OR EQUIPMENT TO REMAIN
	NEW DUCTWORK OR EQUIPMENT
	EXISTING DUCTWORK OR EQUIPMENT TO BE REMOVED
	ACOUSTICALLY LINED DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR CEILING DIFFUSER/DUCT UP
	RETURN AIR CEILING GRILLE
	EXHAUST AIR CEILING GRILLE
	TSTAT; SUBSCRIPT DENOTES EQUIPMENT BEING CONTROLLED
	DIFFUSER/REGISTER DESIGNATION WITH CFM INDICATION
	REFERENCED PLAN NOTE DESIGNATION
	MOTORIZED DAMPER
	MANUAL LOCKING VOLUME DAMPER
	3/4" DOOR UNDERCUT
	POINT OF CONNECTION (NEW TO EXISTING)
	LIMIT OF DEMOLITION
	EXISTING DIFFUSER WITH CFM INDICATION
	SMOKE DETECTOR
	HOOD SHUT OFF SWITCH
	CLASS K FIRE EXTINGUISHER
	PLAN OR DETAIL NUMBER
	DRAWING NUMBER WHERE PLAN OR DETAIL APPEARS



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

NOTE:
ALL MECHANICAL HVAC SYSTEM IS EXISTING TO REMAIN.
NO ALTERATION AT SUPPLY AND RETURN.

DIFFUSER AND REGISTER SCHEDULE

DESIGNATION	CFM RANGE	THROW (FEET)	NECK SIZE (INCHES)	MANUFACTURER METALRAE AND MODEL	DESCRIPTION
A	0-100		6		CEILING DIRECTIONAL DIFFUSER
B	101-200		8		CEILING DIRECTIONAL DIFFUSER
C	201-350		10		CEILING DIRECTIONAL DIFFUSER
D	351-400 CFM		12		CEILING DIRECTIONAL DIFFUSER
E	0-1000				CEILING RETURN AIR GRILLE
F	0-80 CFM/FT				SLOT RETURN GRILLE WITH TWO SLOTS 1" EACH PROVIDE WITH PLENUM BOX 12"x6"
G	0-400 CFM/FT				12" ROUND CEILING DIFFUSER
H	0-400 CFM/FT				12"x6" GRILL DIFFUSER

SCHEDULE NOTES:

- MAXIMUM NC LEVEL OF ALL DIFFUSERS SHALL BE NC35 UNLESS OTHERWISE NOTED.
- ALL CEILING DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE INDICATED WITH DIRECTION ARROWS ON DRAWINGS.
- ALL CEILING DIFFUSERS SHALL BE PROVIDED WITH FRAME AND BORDER SUITABLE FOR THE CEILING TYPE AS SPECIFIED ON THE ARCHITECTURAL DOCUMENTS. PROVIDE ENAMEL FINISH.
- MAXIMUM PRESSURE DROP ACROSS DIFFUSER SHALL NOT EXCEED 0.02 IN W.G., UNLESS OTHERWISE NOTED.
- ALL DIFFUSER AND GRILLES (A,B,C,& D) SHALL BE EQUIPPED W/ VOLUME DAMPER ACCESSIBLE FROM DIFFUSER FACE.

OA CALCULATION

Room Name	Area Ft ²	Area Outside Per BAC	Area Outside Per BAC	Occupant Load Rate Per BAC	Occupancy	Occupant Load Rate Per BAC	Occupant Load Rate Per BAC	Occupant Load Rate Per BAC	Zone Air Distribution (W/G)	Zone Outdoor Air (W/G)	Supply Air (W/G)	Outdoor Air Fraction (W/G)
OFFICE	150	0.08	0	5	1	5	5	14	0.8	18	200	0.09
PRIVATE MASSAGE/PIY LASH	285	0.08	12	5	2	5	12	27	0.8	34	650	0.09
HABRUTA/WASH STATION	250	0.08	12	25	5	7.5	38	50	1.8	28	400	0.07
PEDICURE AREA	120	0.12	14	25	3	20	90	74	2.8	27	400	0.07
CORRIDOR	250	0.08	15	0	0	0	0	15	2.8	8	400	0.02
Total	1005		88		11		180		113	2000		0.09
Supply Air											2000	
System Population(Ps)											11	
Occupant Diversity(D)											1.00	
Unconnected O.A.(Vou)											248	
Ev per Max Zp											1.00	
Required OA											248	
Supplied OA											248	
Percentage of Required Outdoor Air												12.38%
Percentage of Supplied Outdoor Air												12.40%

EX. AHU SCHEDULE

DESIGNATION	SUPPLY AIR TOTAL CFM	MINIMUM OUTSIDE AIR CFM	E.S.P. (W.G.)	SUPPLY FAN HP	COOLING CAPACITY TOTAL (MBH)	HEATING CAPACITY TOTAL (MBH)	UNIT POWER SUPPLY EFFICIENCY (%)	UNIT WEIGHT (LBS)	UNIT DIM	EER/IEER	MANUFACTURER AND MODEL			
EX-AHU-1	2000	248	1.0	1.0	60.0	58.5	60	81.0	40	208-230/60/3	610	-	11/12	EXISTING

NOTES:

- ADJUST SUPPLY AIR AND OUTSIDE AIR AT THE UNIT TO THE VALUES INDICATED ABOVE.

CEILING EXHAUST FAN SCHEDULE

DESIGNATION	CFM	E.S.P. (W.G.)	VOLTS/PHASE	RPM	POWER	DRIVE TYPE	FAN TYPE	CONTROL	MANUFACTURER & MODEL
EX-EF-1	100	0.125	120/1	700	45 W	DIRECT	CEILING	WALL SWITCH	EXISTING EF.
EF-2	75	0.125	120/1	700	45 W	DIRECT	CEILING	WALL SWITCH	EXISTING EF.

SCHEDULE NOTES:

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PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DUTY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 45212, EXPIRATION DATE 04 / 11 / 24

Job #

Date: 6/30/2022 Issue: PERMIT SET

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Scale:

Sheet Title: MECHANICAL PLAN

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PLUMBING

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE GOVERNING CODES AND REGULATIONS. WHERE ANY PORTION OF THE SYSTEM SHOWN IS NOT IN ACCORDANCE WITH ALL APPLICABLE LAWS, ORDINANCES, REGULATIONS OR CODES, THIS CONTRACTOR SHALL MAKE ALL CHANGES REQUIRED BY THE ENFORCING AUTHORITIES IN A MANNER APPROVED BY THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
2. THIS CONTRACTOR SHALL ORDER AND OBTAIN ALL NECESSARY TESTS, PERMITS AND CERTIFICATES OF APPROVAL AND PAY ANY REQUIRED FEES FOR IT.
3. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL EQUIPMENT, FIXTURES AND MATERIALS SHALL BE NEW AND SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. EQUIPMENT CAPACITIES AND MANUFACTURER MODEL NUMBERS ARE INDICATED ON THE DRAWINGS.
5. ALL EQUIPMENT REQUIRING ELECTRIC POWER SHALL BE SUITED FOR USE WITH THE POWER TO BE SUPPLIED. SEE ELECTRICAL DRAWINGS. ALL ELECTRICAL REQUIREMENTS SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.
6. THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR FOR THE EXACT LOCATION OF CHASES, FURRING SPACES, DROPPED CEILINGS, STRUCTURE PENETRATIONS, PAINTING, ETC.
7. THIS CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL COMPONENTS OF THE INSTALLATION. A ONE YEAR SERVICE CONTRACT SHALL BE INCLUDED AS PART OF THIS WORK.

BASIC MATERIALS AND METHODS

1. ALL PIPING CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH GROUND JOINT UNIONS.
2. PIPE HANGER AND SUPPORTS: CLEVIS OR SPLIT RING TYPE SPACING AND ROD SIZE AS RECOMMENDED IN MSSSP-69, MECHANICAL CODE AND IN ACCORDANCE WITH INDUSTRY PRACTICE. SELECT TO FIT AROUND BARE PIPE OR AROUND INSULATION WITH INSULATION SADDLE/SHIELD FOR INSULATED PIPING. HANGERS FOR COPPER PIPE SHALL BE COPPER OR COPPER PLATED. BAND IRON HANGERS SHALL NOT BE USED. HANGERS AND ACCESSORIES SHALL BE F&M CORPORATION OR APPROVED EQUAL.
3. PIPE SUPPORTS: SUPPORTS TO BE PROVIDED IN ACCORDANCE WITH APPLICABLE CODES AND IN ACCORDANCE WITH INDUSTRY PRACTICE. STEEL RISER CLAMPS WITH PLASTIC COATING OR COPPER PLATED OR COPPER PIPES. F & M CORPORATION OR EQUAL.

PIPING SPECIALTIES

1. PROVIDE FACTORY FABRICATED PIPING SPECIALTIES OF TYPES RECOMMENDED BY MANUFACTURERS FOR SERVICES INDICATED.
2. PROVIDE ESCUTCHEON PLATES WHEREVER PIPES PASS THROUGH WALLS, FLOORS OR CEILINGS, OUTSIDE DIAMETER TO COVER COMPLETELY PIPE PENETRATION HOLE OR PIPING SLEEVE. NICKEL OR CHROME FINISH FOR EXPOSED AREAS, PRIME PAINT FINISH FOR CONCEALED AREAS.
3. UNIONS: PROVIDE DIELECTRIC UNIONS AT CONNECTIONS BETWEEN FERROUS AND NON-FERROUS PIPING. EPCO, STOCKHAM OR EQUAL.

INSULATION

1. PROVIDE INSULATION FOR PIPING, AND EQUIPMENT OF TYPES AND THICKNESS SPECIFIED HEREIN. INSULATION SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50. INSTALL INSULATION IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. A CONTINUOUS VAPOR BARRIER SHALL BE PROVIDED ON ALL COLD WATER PIPING AND COLD AIR DUCTWORK. INSULATION SHALL BE ARMSTRONG, CERTAINTED, OWENS-CORNING OR JOHNS-MANVILLE.
2. TYPE I - FLEXIBLE ELASTOMERIC THERMAL INSULATION, SUCH AS ARMSTRONG ARMAFLEX II.
3. FOR THE SERVICES INDICATED USE INSULATION THICKNESSES AND TYPES AS FOLLOWS:
 - a. DOMESTIC COLD WATER PIPE OF 2" DIA. OR LESS - 1/2" THICK
 - b. DOMESTIC COLD WATER PIPE OF >2" DIA. - 1" THICK
 - c. DOMESTIC HOT WATER RECIRCULATING - 1-1/2" THICK
 - d. DOMESTIC HOT WATER RUN-OUTS - 1" THICK

VALVES

1. GATE VALVES, 2-INCH AND SMALLER: MSS SP-80; CLASS 125, BODY AND BONNET OF ASTM B 62 CAST BRONZE, WITH THREADED OR SOLDER ENDS, SOLID DISC, COPPER-SILICON ALLOY STEM, BRASS PACKING GLAND, "TEFLON" IMPREGNATED PACKING, AND MALLEABLE IRON HANDWHEEL. PROVIDE CLASS 150 VALVES MEETING THE ABOVE AND MALLEABLE IRON HANDWHEEL. PROVIDE CLASS 150 VALVES MEETING THE ABOVE WHERE SYSTEM PRESSURE REQUIRES. DO NOT USE SOLDER END VALVES FOR HOT WATER HEATING OR STEAM PIPING APPLICATIONS.
2. BALL VALVES: 2-PIECE, BRONZE BODY, BLOW-OUT PROOF STEM, METAL BALL, TEFLON SEAL RING, SCREWED OR SOLDERED ENDS, 400 LB. WOG. NIBCO OR STOCKHAM.
3. PROVIDE VALVES FOR THE FOLLOWING SERVICES:
 - a. DOMESTIC WATER 1" AND LARGER - GATE VALVE
 - b. DOMESTIC WATER SMALLER THAN 1" - BALL VALVE
4. LOCATE VALVES IN ACCESSIBLE LOCATIONS WHEREVER POSSIBLE, ABOVE SUSPENDED CEILINGS ETC. IF LOCATED ABOVE OR BEHIND DRYWALL CEILINGS OR WALLS, PROVIDE STEEL ACCESS PANELS DIRECTLY IN FRONT OF VALVES. LOCATION MUST BE COORDINATED AND APPROVED BY OWNER PRIOR TO INSTALLATION OF PIPING SYSTEM.

PIPING

1. INSTALL PIPE TUBE AND FITTINGS IN ACCORDANCE WITH INDUSTRY PRACTICE WHICH WILL ACHIEVE PERMANENTLY LEAKPROOF PIPING SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE WITHOUT PIPING FAILURE. TEST PIPING FOR LEAKAGE. REPAIR PIPING SYSTEMS SECTIONS WHICH FAIL TEST BY DISASSEMBLY AND RE-INSTALLATION, USING NEW MATERIALS TO THE EXTENT REQUIRED TO OVERCOME LEAKAGE. UNDER NO CIRCUMSTANCES USE CHEMICALS, STOP-LEAK COMPOUNDS, MASTICS, TAPES OR OTHER TEMPORARY REPAIR METHODS.
2. ALL SANITARY PIPING SHALL BE SLOPED AS NOTED ON PLANS. WHERE NOT NOTED, SLOPE PIPING AT MINIMUM REQUIRED BY CODE.
3. ALL PIPING SHOWN ON THE FLOOR PLANS SHALL BE LOCATED ABOVE THE CEILING OR INSIDE CHASES UNLESS OTHERWISE NOTED.
4. STORM, WASTE AND VENT PIPING SHALL BE CAST IRON SERVICE WEIGHT NO-HUB CAST IRON PIPE AND FITTINGS CISP 301, HUB & SPIGOT SOIL PIPE AND FITTINGS ASTM A-74, GALVANIZED STEEL PIPE WITH DRAINAGE PATTERN SCREWED GALVANIZED CAST IRON FITTINGS ANSI/ASTM A-74 OR DWV COPPER WITH WROUGHT COPPER FITTINGS, ASTM B306, OR POLYVINYL CHLORIDE PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM D2665, ASTM F891, (SCH 40) ASTM F1760.
5. DOMESTIC WATER PIPING SHALL BE COPPER OR CPVC. COPPER SHALL BE TYPE "L" HARD-DRAWN TEMPER, WROUGHT COPPER FITTINGS, NON-LEAD SOLDERED JOINTS WITH NON-CORROSIVE FLUX, ANSI B-88. CPVC SHALL BE CHLORINATED POLYVINYL CHLORIDE PLASTIC PIPE ASTM D 2846; ASTM F 441; ASTM F 442; CSA B137.6

CLEANOUTS:

1. CLEANOUTS SHALL BE INSTALLED NOT MORE THAN 50 FT. APART IN HORIZONTAL DRAINAGE LINES. A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH VERTICAL WASTE, SOIL STACK, OR RAINLEADER. THERE SHALL BE A CLEANOUT AT THE JUNCTION OF THE SANITARY BUILDING DRAINS AND BUILDING SEWERS, AND THE STORM AND BUILDING SEWERS.
2. CLEANOUTS ON CONCEALED PIPING SHALL BE EXTENDED THROUGH AND TERMINATE FLUSH WITH THE FINISHED WALL OR FLOOR WITH ACCESS COVER OF SUFFICIENT SIZE TO PERMIT REMOVAL OF THE CLEANOUT PLUG. CLEANOUTS SHALL NOT BE INSTALLED IN AREAS OF FLOORS TO RECEIVE TERRAZZO, CERAMIC TILE OR STONE FINISH.
3. CLEANOUTS SHALL BE INSTALLED SO THAT THE CLEANOUT OPENS IN THE DIRECTION OF THE DRAINAGE LINE OR AT RIGHT ANGLES THERETO.
4. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPES THEY SERVE UP TO 4" AND NOT LESS THAN ONE NOMINAL PIPE SIZE SMALLER FOR LARGER PIPE.
5. A FIXTURE TRAP OR A FIXTURE WITH INTEGRAL TRAP, READILY REMOVABLE WITHOUT DISTURBING CONCEALED PIPING, MAY BE ACCEPTED AS A CLEANOUT EQUIVALENT.
6. CLEANOUTS SHALL BE "ZURN", "JAY R. SMITH", "WADE", OR "JOSAM".
 - A. EXPOSED CONCRETE FLOOR: Z-1400-HB
 - B. KITCHEN FLOORS: ZN-1400
 - C. TILE FLOORS: ZN-1400-X
 - D. CARPETED FLOORS: ZN-1400-CM
 - E. FINISHED FLOORS: ZN-1400
 - F. FINISHED WALLS: Z-1445-1468 ACCESS COVER AND PLUG.
 - G. EXPOSED PIPING: Z-1445
 - H. EXTERIOR (CONCRETE): Z-1449
7. LOCATE CLEANOUTS IN ACCESSIBLE LOCATIONS WHEREVER POSSIBLE, ABOVE SUSPENDED CEILINGS ETC. IF LOCATED ABOVE OR BEHIND DRYWALL CEILINGS, PROVIDE STEEL ACCESS PANELS DIRECTLY IN FRONT OF VALVES. PROVIDE CHROME PLATED BRASS COVER PLATES FOR CLEANOUTS LOCATED WITHIN DRYWALL PARTITIONS. LOCATIONS MUST BE COORDINATED AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION OF PIPING SYSTEM.

PLUMBING SYSTEM GENERAL NOTES

1. PLUMBING SYSTEM
 - A. ALL PLUMBING WORK SHALL BE PERFORMED PER REQUIREMENTS OF LOCAL CODES AND REGULATIONS.
 - B. REFER TO ARCHITECTURAL PLANS FOR LIMITS OF WORK AND BUILDING STANDARDS.
 - C. COORDINATE WORK WITH ALL OTHER TRADES AND INSPECT EXISTING CONDITIONS PRIOR TO BEGINNING INSTALLATION.
 - D. SCHEDULE WITH THE OWNER TEMPORARY SHUT-OFF SERVICES TO PUBLIC/OTHER AREAS.
 - E. INSTALL AND CONCEAL ALL WASTE, VENT AND WATER PIPING BETWEEN FLOOR AND CEILING OR WITHIN PARTITIONS AND/OR WALLS.
 - F. CONTRACTOR SHALL IDENTIFY THE EXACT LOCATION, AND SIZE OF EXISTING PLUMBING PIPING AND STACKS, BEFORE THE START OF WORK.

FIXTURES

1. FIXTURES, FITTINGS, TRIM AND ACCESSORIES SHALL BE SAME MANUFACTURERS TO THE EXTENT POSSIBLE.
2. BARRIER FREE STANDARDS: COMPLY WITH APPLICABLE ANSI STANDARDS PERTAINING TO PLUMBING FIXTURES AND SYSTEMS INCLUDING ANSI A 117.1 STANDARD PERTAINING TO PLUMBING FIXTURES FOR THE HANDICAPPED. COMPLY WITH THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT". FIXTURES DESIGNATED BARRIER FREE ARE INTENDED TO BE "USABLE BY PHYSICALLY HANDICAPPED PEOPLE". FIXTURES FOR USE BY HANDICAPPED PEOPLE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI A 117.1.
3. ENERGY CONSERVATION CODE COMPLIANCE: COMPLY WITH LOCAL AUTHORITY STANDARDS FOR PLUMBING FIXTURE FLOW CONTROLS. WHERE NO CODE OR STANDARD IS IN USE, USE THE CURRENT BOCA BASIC ENERGY CONSERVATION CODE. WHEN A SPECIFIED DEVICE IS MORE RESTRICTIVE THAN THE LOCAL STANDARDS, THE SPECIFIED DEVICE SHALL BE INSTALLED EXCEPT WHERE PROHIBITED.
4. SUBMIT MANUFACTURER'S SPECIFICATIONS FOR PLUMBING FIXTURES AND TRIM, INCLUDING CATALOG LITERATURE AND MANUFACTURER'S NAME OF EACH FIXTURE TYPE AND TRIM ITEM FURNISHED, ROUGHING-IN DIMENSIONED DRAWINGS, FIXTURE CARRIERS, AND INSTALLATION INSTRUCTIONS. PROPOSED SUBSTITUTIONS SHALL BE INDICATED AND DRAWINGS, CATALOG LITERATURE, OR OTHER DATA SHALL BE FURNISHED FOR COMPARISON.
5. FIXTURES SHALL BE WHITE EXCEPT WHERE INDICATED OTHERWISE OR WHERE FIXTURE IS PROVIDED IN A MANUFACTURED FINISH.
6. EXPOSED METAL FITTINGS, TRIM, AND ACCESSORIES SHALL HAVE POLISHED CHROME PLATED FINISH.
7. SUPPLIES: PROVIDE A TAP ON EACH WATER SUPPLY TO EACH FIXTURE. PROVIDE ACCESS PANELS FOR CONCEALED STOPS.
8. TRAPS: PROVIDE A TRAP ON EACH FIXTURE, EXCEPT WHERE FIXTURE SPILLS OVER A PROPERLY TRAPPED DRAIN OR OTHER RECEPTOR. ALL SINK AND LAVATORY TRAPS SHALL BE CHROME PLATED CAST BRASS SWIVEL PATTERN WITH CLEANOUT. ALL TUBING DRAINS SHALL BE MINIMUM 17 GAUGE THICKNESS CHROME PLATED METAL.
9. ESCUTCHEONS: PROVIDE DEEP PATTERN ESCUTCHEONS FOR SUPPLIES AND TRAPS WHERE ROUGH-IN PIPING WOULD BE VISIBLE USING STANDARD ESCUTCHEONS.

PLUMBING LEGEND

—	SANITARY SEWER	(RE)	EXISTING TO BE RELOCATED
---	VENT PIPE	BFP	BACK FLOW PREVENTOR
- - - -	HOT WATER PIPE	CO	CLEAN OUT
- - - -	COLD WATER PIPE	CFH	CUBIC FEET PER HOUR
- - - -	EXISTING PIPE	CW	COLD WATER
(E)	GAS PIPE	FD	FLOOR DRAIN
G	CLEAN OUT	FS	FLOOR SINK
○	OPEN SITE DRAIN	GAL	GALLONS
⊗	FLOOR DRAIN, SINK	GI	GREASE INTERCEPTOR
⊕	POINT OF CONNECTION EXISTING TO REMOVE	SS	SERVICE SINK
⊖	POINT OF CONNECTION NEW TO EXISTING WORK	HW	HOT WATER
⊗	GAS COCK	HW/H	HOT WATER HEATER LAVATORY
⊘	PIPE UNION	LAV	LAVATORY
⊙	SHUT - OFF GATE VALVE	DSD	OPEN SITE DRAIN
⊚	MIXING VALVE	SAN	SANITARY
		URI	URINAL
		VTR	VENT THRU ROOF
		WC	WATER CLOSET
		CFH	CUBIC FEET PER HOUR

EX. WATER HEATER SCHEDULE

ITEM	TYPE	LOCATION	RECOVERY GPH TEMP. RISE	STORAGE CAPACITY GALLON	ELEC. INFO	TANK		MANUFACTURER & MODEL
						DIAMETER IN	HEIGHT IN	
E.W.H.	ELEC	ABOVE CEILING	8 @ 90°	6	120V/1PH 1.5 KW	14.125	15.25	AD SMITH-ELJC 6 917

1- FOLLOW MANUFACTURER RECOMMENDATIONS FOR INSTALLATION OF HEATER AND ACCESSORIES INCLUDING PIPING AND FITTINGS

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PROFESSIONAL CERTIFICATION:
I HEREBY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DUTY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 45212, EXPIRATION DATE 04 / 11 / 24

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