

CLUB PILATES

ALL CONSTRUCTION WORK SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS AND REGULATIONS. IN CASE OF CONFLICTS THE MOST RESTRICTIVE SHALL APPLY. THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS WITH THESE REGULATIONS, ORDINANCES AND FIELD CONDITIONS.

REVISIONS:



CLUB PILATES
STREETS OF WEST PRYOR
940 NW PRYOR ROAD
SUITE - E
LEE'S SUMMIT, MO 64081

ROBERT QUINTANA
ARCHITECTS
14900 LANDMARK BLVD.
SUITE 530
DALLAS, TEXAS 75254
(972) 233-2718

ROA



COVER SHEET

DATE: 02/23/21
DRAWN BY: MC
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JOB NO.: 21-182
SHEET:

CVR

GENERAL NOTES

ALL CONSTRUCTION WORK SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS AND REGULATIONS. IN CASE OF CONFLICTS THE MOST RESTRICTIVE SHALL APPLY. THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS WITH THESE REGULATIONS AND ORDINANCES.

THE GENERAL CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE. REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

VERIFY LOCATIONS OF ALL UTILITY LINES, CONDUITS, SURFACE OR SUB-SURFACE STRUCTURES, ETC., OF ANY NATURE THAT MAY BE AFFECTED BY THE WORK BEFORE STARTING THE WORK.

SHOULD ANY OF THE ABOVE ITEMS BE DISTURBED, DISCONNECTED, OR DAMAGED DURING THE WORK, THE GENERAL CONTRACTOR SHALL BEAR ALL EXPENSES OF WHATEVER NATURE ARISING FROM SUCH DISTURBANCE OR THE REPLACEMENT OR REPAIR THEREOF, AND REPLACE OR REPAIR SUCH ITEMS AS REQUIRED.

THE GENERAL CONTRACTOR SHALL DO ALL THE DEMOLITION WORK AS REQUIRED TO PREPARE THE SPACE FOR THE NEW CONSTRUCTION.

DEMOLITION SHALL BE DONE IN A SAFE, ORDERLY MANNER WITHOUT DAMAGE TO OTHER PARTS OF THE PREMISES OR ADJACENT PROPERTIES. ANY RESULTING DAMAGE OR LOSS SHALL BE CORRECTED OR REPLACED BY THE GENERAL CONTRACTOR AT NO COST TO THE TENANT.

ALL DEMOLISHED/REMOVED ITEMS SHALL BE DISPOSED OF BY THE GENERAL CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE TENANT. VERIFY WITH THE TENANT'S PROJECT MANAGER ON ITEMS TO BE SAVED AND STORED. ALL REMOVED ITEMS TO BE SAVED FOR REUSE SHALL BE HANDLED WITH CARE.

CUT ALL DEMOLITION TO A STRAIGHT, NEAT LINE AT THE REMAINING EXISTING CONDITION. PROTRUDING OBJECTS ON ALL SURFACES SHALL BE REMOVED THE THE AREA FILLED AND REPAIRED.

ALL SURFACES TO BE CLEARED AND FREE OF DEBRIS AND ADHESIVES.

THE GENERAL CONTRACTOR SHALL PROTECT NEW OR EXISTING WORK, EQUIPMENT, MATERIALS, AND FINISHES. DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE GENERAL CONTRACTOR.

PATCH AND REPAIR ANY DAMAGED OR DISTURBED AREAS TO MATCH THE ADJACENT CONSTRUCTION, MATERIALS AND FINISHES.

IF THE GENERAL CONTRACTOR ENCOUNTERS EXISTING DAMAGE TO THE BASE BUILDING WITHIN THE EXTENT OF THE WORK IN THIS CONTRACT, THEY MUST NOTIFY THE ARCHITECT IN WRITING IMMEDIATELY.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF FIRE RATED CONSTRUCTION FOR BOTH EXISTING AND NEW PARTITIONS AND THE FIREPROOFING OF EXISTING STRUCTURE.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FIRE PROTECTIONS, ALARM SYSTEMS, ETC.

THE GENERAL CONTRACTOR SHALL, AT ALL TIMES DURING THE COURSE OF THE WORK, KEEP THE CONSTRUCTION AREA, THE OWNER'S PREMISES INCLUDING STREETS AND OTHER AREAS USED BY THE GENERAL CONTRACTOR, CLEAN AND FREE FROM ACCUMULATION OF WASTE MATERIALS AND RUBBISH.

THE GENERAL CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES AS REQUIRED.

AT THE COMPLETION OF THE WORK, REMOVE FROM THE BUILDING AND THE PREMISES ALL SURPLUS MATERIALS AND DEBRIS, AND CLEAN UP THOROUGHLY TO THE TENANT'S SATISFACTION.

ALL WOOD BLOCKING USED FOR THIS PROJECT SHALL BE FIRE RETARDANT TREATED (FRT) WOOD.

ALL DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF FINISH, UNLESS NOTED OTHERWISE.

ROOF PENETRATIONS (CUTTING, PATCHING, REPAIR AND FLASHING OF ROOF DECK SHALL BE PERFORMED BY THE LANDLORD'S DESIGNATED ROOFING CONTRACTOR.

THE G.C. IS TO APPLY FOR ALL DEFERRED SUBMITTALS AND SPECIAL INSPECTIONS AT THE BEGINNING OF THE PROJECT PRIOR TO COMMENCING WORK.

G.C. RESPONSIBLE FOR ALL DEFERRED PERMIT SUBMITTALS:
- SPRINKLERS, FIRE ALARM, ETC.
- THIRD PARTY INSPECTIONS

NOTE: ALL OF THE ABOVE ARE TO BE SUBMITTED AT THE BEGINNING OF THE PROJECT WITHOUT EXCEPTION.

PROJECT INFORMATION

PROJECT: CLUB PILATES
LOCATION: STREETS OF WEST PRYOR
SUITE - E
940 NW PRYOR ROAD
LEE'S SUMMIT, MO 64081

AREA: 1,682 SF

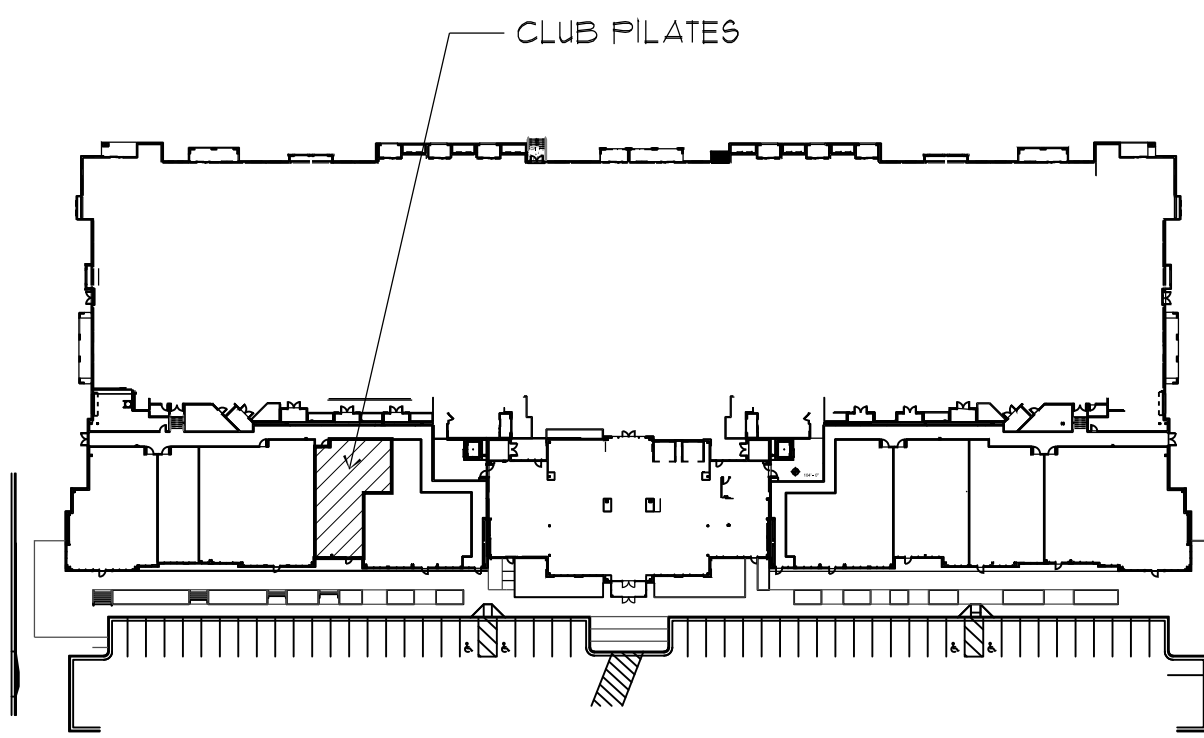
PROJECT MANAGER

ROBERT QUINTANA
14900 LANDMARK BLVD.
SUITE #530
DALLAS, TEXAS 75254
PHONE: 972-233-2718
CONTACT:
- BOB QUINTANA
r.quintana@rqarch.com

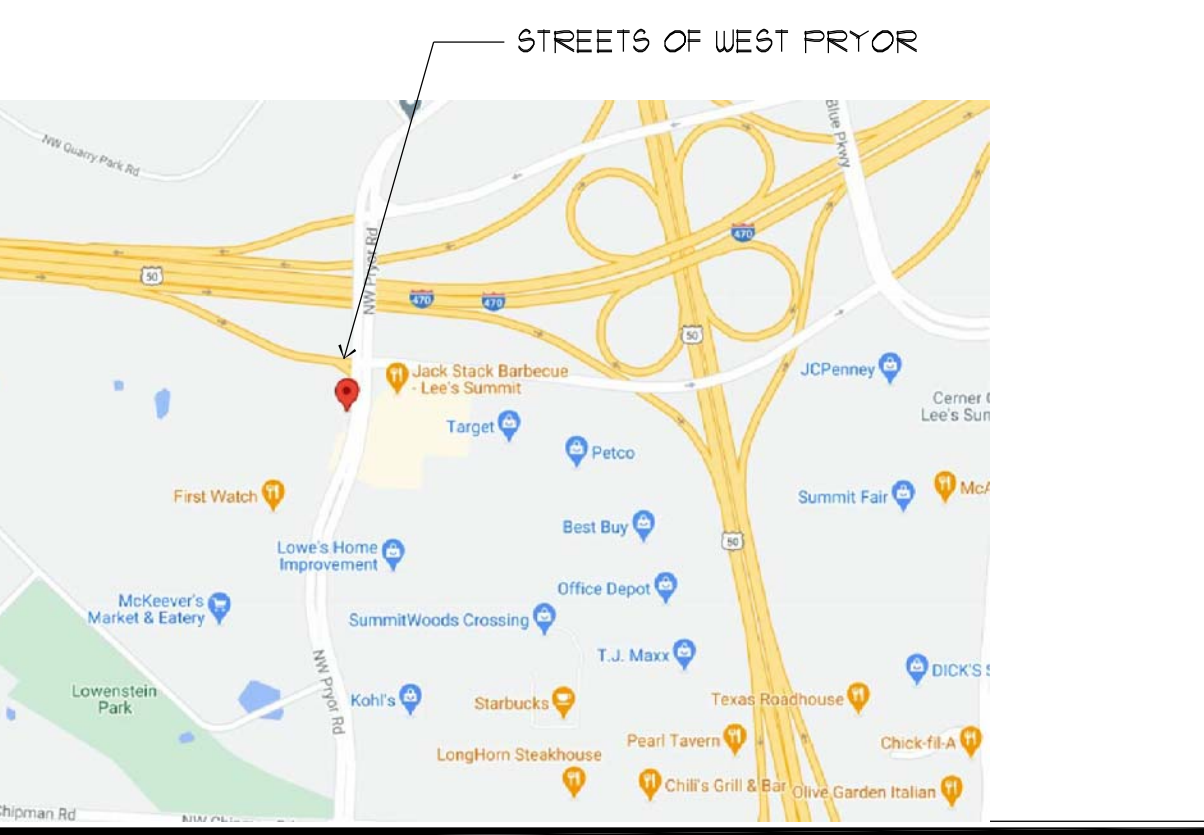
TENANT

CLUB PILATES
CONTACT: NATHAN OTTO
nathan.otto@clubpilates.com
PHONE: 816-401-2823

KEY PLAN



SITE PLAN



BUILDING DEPT.

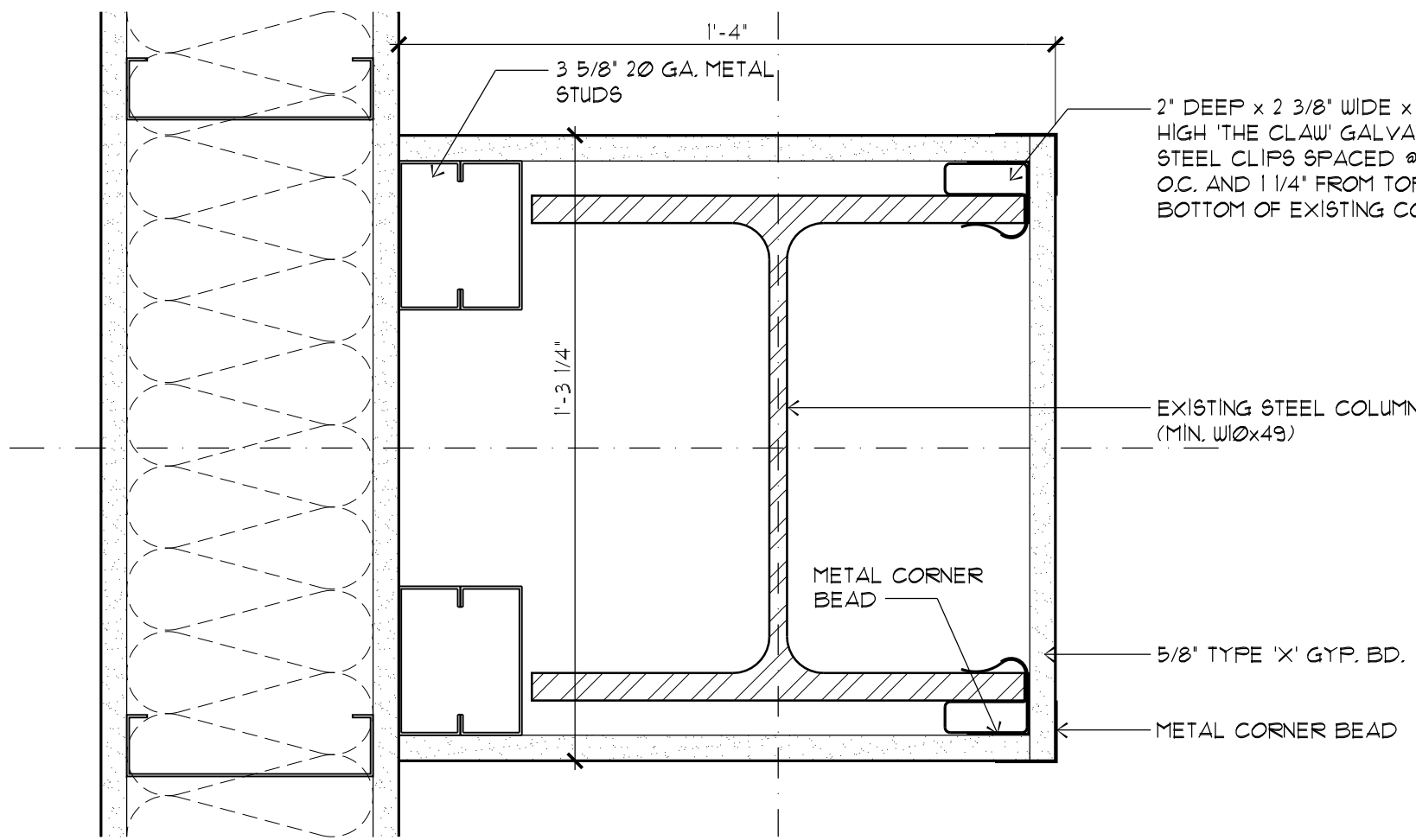
CITY OF LEE'S SUMMIT DEVELOPMENT SERVICES 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PHONE: 816-365-1200		GENERAL DESCRIPTION: INTERIOR MODIFICATIONS TO ALLOW FOR A NEW TENANT TO MOVE INTO AN EXIST'G SPACE. TENANT FINISH OUT	
APPLICABLE CODE:			
ARCHITECTURAL	2018 INTERNATIONAL BUILDING CODE		
MECHANICAL	2018 INTERNATIONAL MECHANICAL CODE		
PLUMBING	2018 INTERNATIONAL PLUMBING CODE		
ELECTRICAL	2017 NATIONAL ELECTRICAL CODE		
FIRE/LIFE SAFETY	2018 INTERNATIONAL FIRE CODE		
ENERGY	2018 INTERNATIONAL ENERGY CONSERVATION CODE		
USE GROUP:		B BUSINESS	
CONSTRUCTION TYPE:		TYPE II B	
SPRINKLERS			
* OF EXITS REQUIRED	1	* OF EXITS PROVIDED	2
OCCUPANT LOAD	TRAINING AREA 1035 SF 12 FIXED WORKOUT STATIONS		12 - OCCUPANTS
OCCUPANT LOAD	RECEPTION AREA 251 SF / 100 +		251 - OCCUPANTS
OCCUPANT LOAD	BACK OF HOUSE 350 SF / 300 +		116 - OCCUPANTS
			15,13
			16 - OCCUPANTS

AREA TABULATIONS

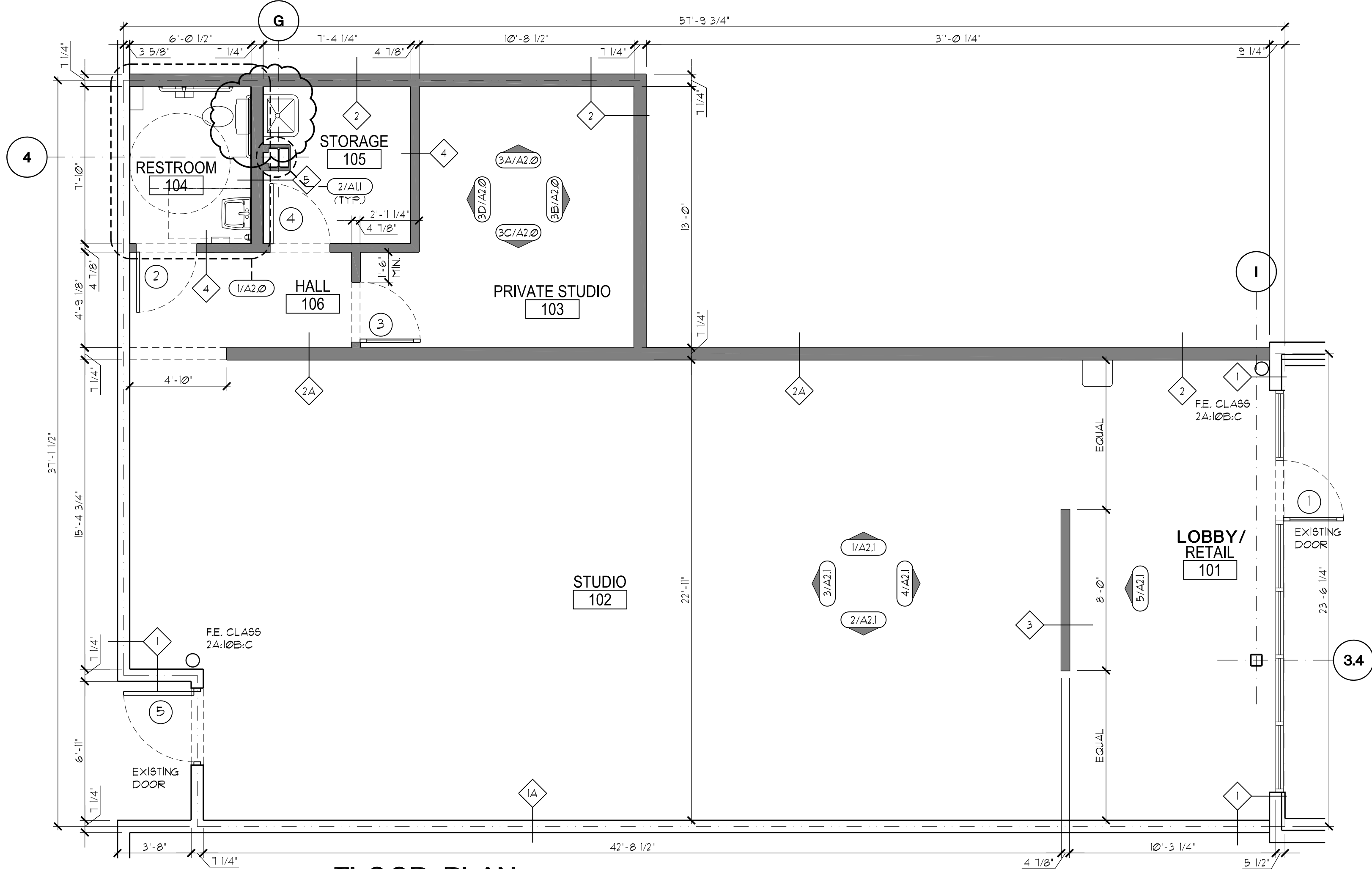
WORK OUT STUDIO	1,075 S.F.
RECEPTION	257 S.F.
BACK OF HOUSE	350 S.F.

TOTAL BUSINESS 1,682 S.F.

DOOR SCHEDULE					
SYMBOL	SIZE	TYPE	FRAME	HDWR.	LOCATION
①	EXISTING 3'-0" x 1'-0"	GLASS DOOR	ALUMINUM	A	LOBBY/RETAIL
②	3'-0" x 1'-0"	SOLID CORE WOOD	KD ALUMINUM	B	RESTROOM
③	3'-0" x 1'-0"	GLASS AND WOOD DOOR	KD ALUMINUM	C	PRIVATE STUDIO
④	3'-0" x 8'-0"	SOLID CORE WOOD	KD ALUMINUM	D	STORAGE
⑤	EXISTING 3'-6" x 1'-0"	HOLLOW METAL	HM	E	EXIT
HARDWARE SCHEDULE					
SET	DESCRIPTION				
A	EXISTING TEMPERED GLASS DOOR W/ 4" TOP, SIDE RAILS AND 10" BOTTOM RAIL PER ICC A117.1 404.2.3 DOOR SURFACES WITHIN 10' OF THE FLOOR SHALL BE SMOOTH ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR. LOCKSET SET (RE-KEY PER TENANT) PUSH / PULL TYPE DOOR HARDWARE 1 1/2 PAIR MCKINNEY HINGES * TA2714 - 4 1/2" x 4 1/2" OVERHEAD MOUNTED CLOSER SILENCERS ALUMINUM THRESHOLD SIGNAGE W/ 1" HIGH LETTERS STATING 'THIS DOOR TO REMAIN UNLOCKED WHEN SPACE IS OCCUPIED'				
B	SOLID CORE WOOD DOOR KNOCK DOWN ALUMINUM FRAME LEVER TYPE DOOR HARDWARE 1 1/2 PAIR MCKINNEY HINGES * TA2714 - 4 1/2" x 4 1/2" MORTISED PRIVACY SET 3 SILENCERS - 1VE9' #20 ROCKWOOD FLOOR MOUNTED DOOR STOP * 440 NORTON OVERHEAD CLOSER 10" HIGH X FULL WIDTH METAL KICK PLATE - BOTH SIDES PAINT DOOR AND FRAME P-4				
C	TEMPERED GLASS W/ 4" TOP, SIDE AND 10" BOTTOM WOOD RAILS - STAIN GRADE BIRCH KNOCK DOWN ALUMINUM FRAME LEVER TYPE DOOR HARDWARE 1 1/2 PAIR MCKINNEY HINGES * TA2714 - 4 1/2" x 4 1/2" MORTISED LOCK SET 3 SILENCERS - 1VE9' #20 ROCKWOOD FLOOR MOUNTED DOOR STOP * 440 PAINT DOOR AND FRAME P-4				
D	SOLID CORE WOOD DOOR KNOCK DOWN ALUMINUM FRAME LEVER TYPE DOOR HARDWARE 1 1/2 PAIR MCKINNEY HINGES * TA2714 - 4 1/2" x 4 1/2" MORTISED LOCK SET 3 SILENCERS - 1VE9' #20 ROCKWOOD FLOOR MOUNTED DOOR STOP * 440 10" HIGH X FULL WIDTH METAL KICK PLATE - BOTH SIDES				
E	EXISTING HOLLOW METAL DOOR AND FRAME EXISTING HINGES W/ NON REMOVABLE PINS ARROW EXIT DOOR HARDWARE - PUSH SIDE OVERHEAD MOUNTED CLOSER THRESHOLD PAINT DOOR AND FRAME P-4 (INT. SIDE) NATIONAL GUARD WEATHER SEALS KICK DOWN HOLD OPEN DEVICE 3 SILENCERS - 1VE9' #20 KEYED ACCESS FROM OUTSIDE ONLY METAL LATCH GUARD 2 KICK PLATES - 1VE9' #2400B4-15X34-32D MOUNT ON EACH SIDE OF DOOR				



2 COLUMN WRAP DETAIL
A1.1-02 3' x 1'-0"



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

LEGEND	
○	DOOR NUMBER - REFER TO DOOR SCHEDULE ON SHEET A6.1
△	REVISION NUMBER
⬡	MATERIAL NUMBER - REFER TO MATERIAL SCHEDULE ON SHEET A1.3
◇	NUMBER REFERENCES WALL TYPE - SEE SHEET A5.1
A	NUMBER REFERENCES WINDOW TYPE - SEE SHEET A6.1
1/A1.1	DETAIL NUMBER SHEET NUMBER
1/A1.1	DETAIL NUMBER SHEET NUMBER
1/A1.1	DETAIL NUMBER SHEET NUMBER
1/A1.1	DETAIL NUMBER SHEET NUMBER
NEW WALL	NEW WALL NON LOAD BEARING
EXISTING WALL	EXISTING WALL

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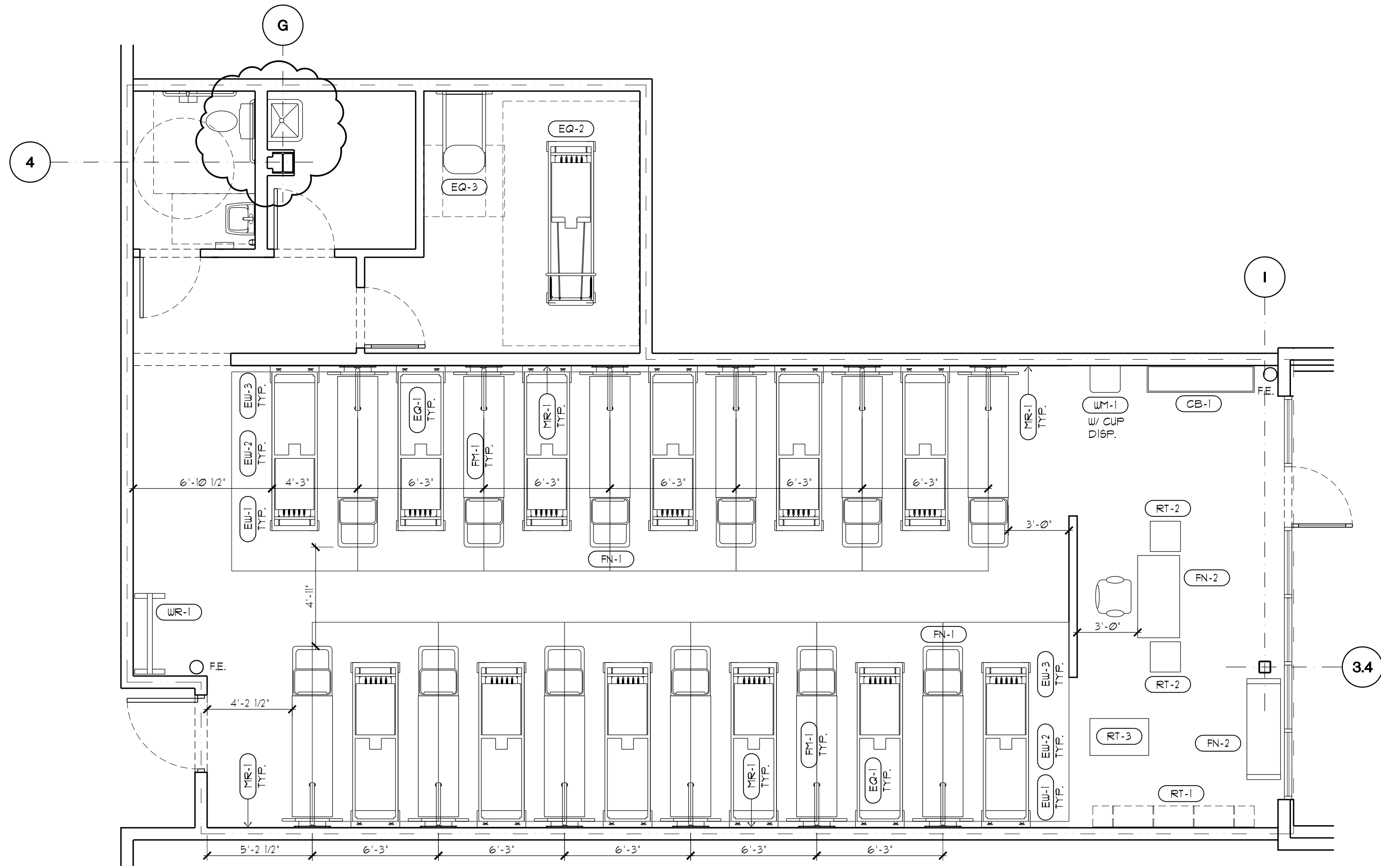


FLOOR PLAN
AND SCHEDULES

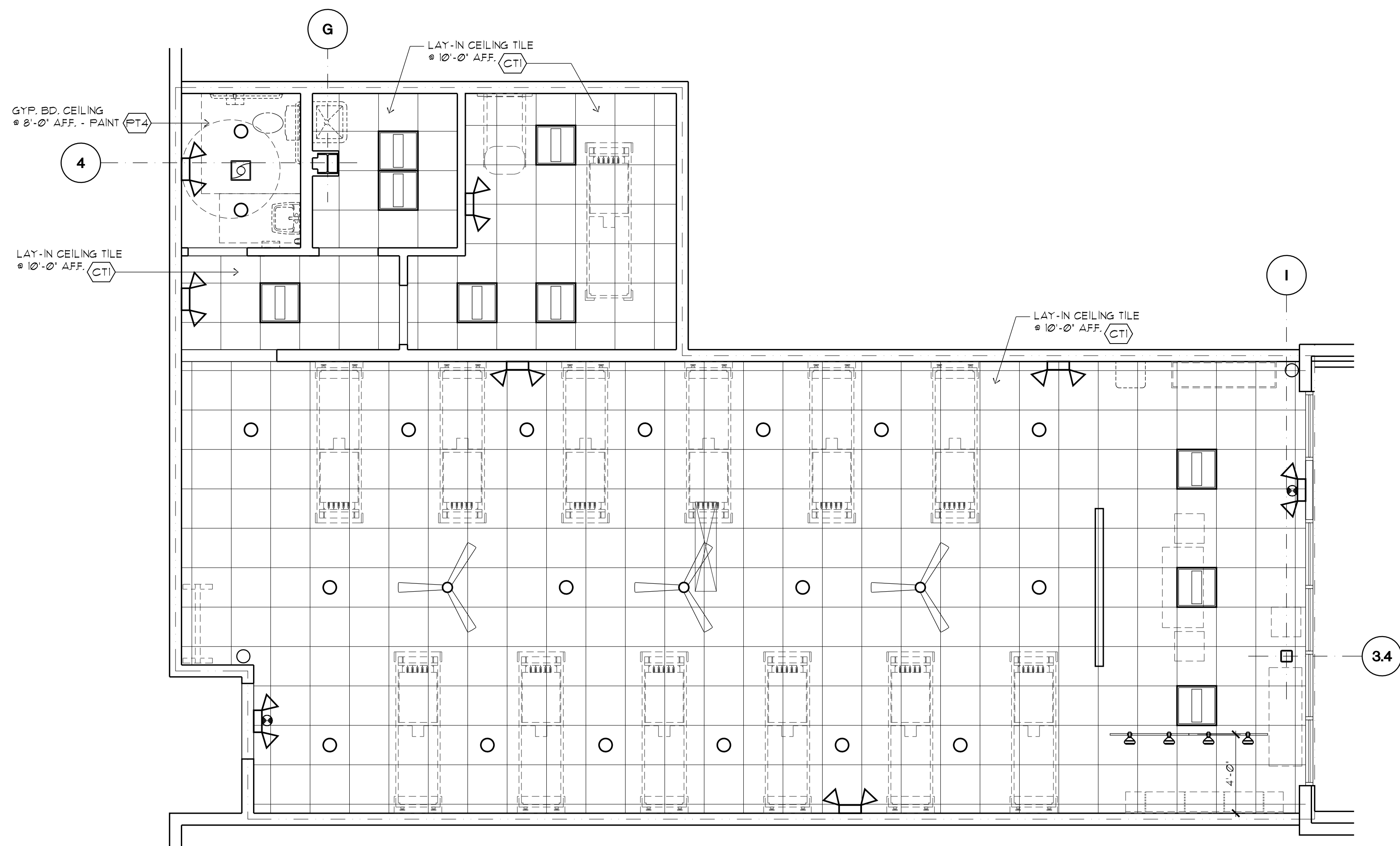
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A1.1

EQUIPMENT SCHEDULE				
MARK	QT.	DESCRIPTION	SIZE	REMARKS
CB-1	1	CUBBY SLOT SHELF	64" W x 16" D x 81" H	
EQ-1	12	REFORMER - STUDIO	8'-0" L x 2'-3" W	
EQ-2	1	REFORMER - TRAPEZE COMBO	8'-0" L x 2'-3" W	
EQ-3	1	LADDER BARREL	4'-5" W x 2'-5" D	
EQ-4		NOT USED		
EW-1	12	MAPLE BOARD HEADER	2'-0" H x 8'-0" L	WALL MOUNTED
EW-2	12	SPRING BOARD	1'-8" W x 6'-0" H	WALL MOUNTED
EW-3	12	TRX		WALL MOUNTED
FB-1	12	BOB U BALL		MOVABLE
FM-1	12	FLOOR MAT	18" W x 6'-0" L	MOVABLE
FN-1	12	EXO CHAIR	33" x 26"	MOVABLE
FN-2	1	RECEPTION DESK	49" W x 25" D x 34" H	
FN-3	1	SEATING BENCH	79" L	MOVABLE
MR-1	12	MIRROR - WORKOUT STUDIO	72" H x WIDTH TO FIT	WALL MOUNTED
MR-2	1	MIRROR	FULL HEIGHT x FULL WIDTH	WALL MOUNTED
MR-3	1	MIRROR - LOBBY SLATWALL	96" H x WIDTH TO FIT	WALL MOUNTED
RT-1	1	RETAIL - SLATWALL	96" W x 3/4" D x 96" H	WALL MOUNTED
RT-2	2	RETAIL - PEDESTAL TOWER	18" W x 18" D x 45" H	2-EACH
RT-3	1	RETAIL - TOE SOX DISPLAY	35" W x 22" D x 66" H	
RT-4		NOT USED		
RT-5		NOT USED		
WM-1	1	FLOATWATER MACHINE	16" W x 16" D x 68" H	
WR-1	1	WEIGHT RACK		



2
182-PLN
1/4" = 1'-0"



1
182-PLN
1/4" = 1'-0"

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REFLECTED
CEILING PLAN
AND FIXTURE
PLAN

DATE: 02/23/21
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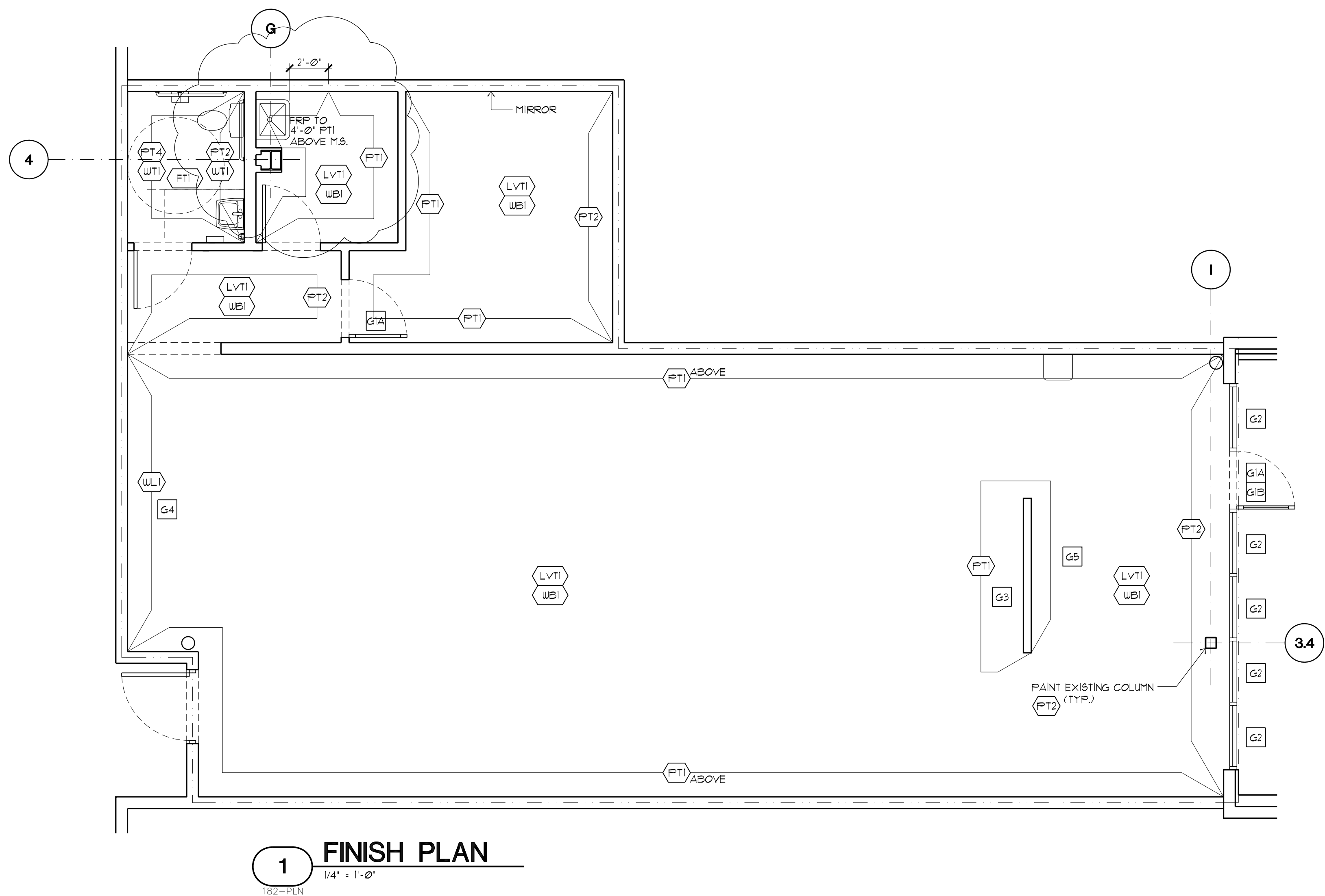
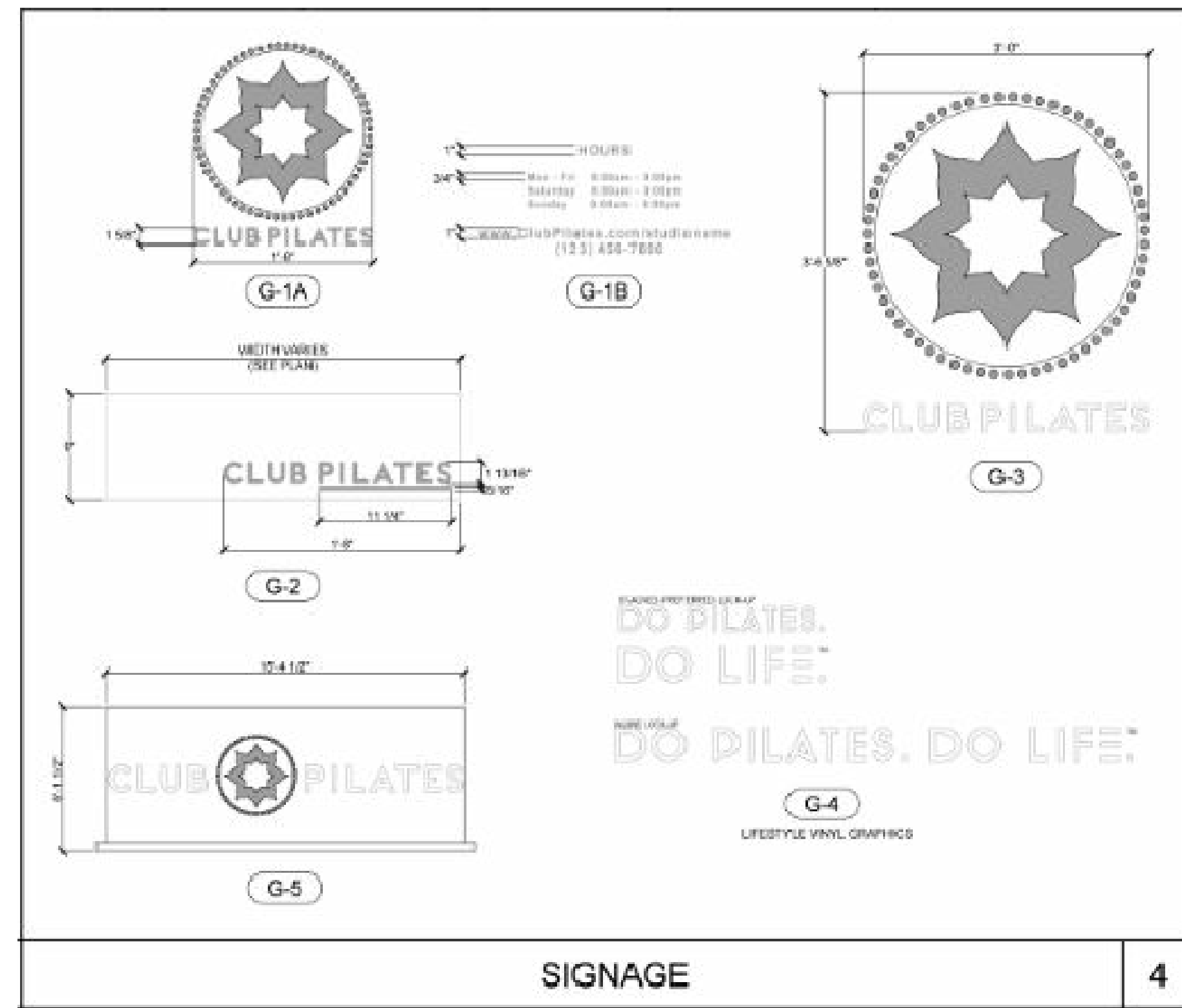
A1.2

FINISH SCHEDULE																
ROOM NO.	ROOM NAME	FLOOR	BASE	SIZE								CEILING		REMARKS		
				A		B		C		D		MATERIAL	PAINT		HEIGHT	
				MATERIAL	PAINT	MATERIAL	PAINT	MATERIAL	PAINT	MATERIAL	PAINT					
101	LOBBY / RETAIL	LVT-1	WB-1	GWB	PT-1	GWB	PT-2	GWB	PT-1	GWB	PT-1	CT-1	SEE REFLECTED CEILING PLAN 1/4"2	SEE NOTES 1, 6		
102	WORKOUT AREA	LVT-1	WB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	WL-1	CT-1		SEE NOTES 1, 6		
103	PRIVATE STUDIO	LVT-1	WB-1	GWB	PT-2	GWB	PT-1	GWB		GWB	PT-1	CT-1		SEE NOTES 1, 6		
104	RESTROOM	FT-1		GWB	PT-2 WT-1	GWB	PT-4 WT-1	GWB	PT-4 WT-1	GWB	PT-4 WT-1	GWB		PT-5	SEE NOTES 1, 3	
105	STORAGE	LVT-1	WB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	CT-1		SEE NOTES 1, 6		
106	HALL	LVT-1	WB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	CT-1		SEE NOTES 1, 6		

NOTES:

- REFERENCE INTERIOR ELEVATIONS AND ROOM FINISH PLAN FOR EXTENT OF FINISHES.
- PATCH AND REPAIR (E) GYPSUM BOARD CEILING TO AN 'AS NEW' CONDITION.
- ALL GYPSUM BOARD TO BE 5/8" THICK, TAPED, FLOATED, SANDED AND READY FOR PAINT TO A LEVEL 4 FINISH.
- THE G.C. IS TO REPAIR/PROVIDE INSULATION AS REQUIRED PRIOR TO PAINTING.
- ALL SURFACES AT UNDERSIDE OF ROOF DECK TO RECEIVE PAINT.
- LAY-IN ACOUSTICAL CEILING TILES AS SPECIFIED ON REFLECTED CEILING PLAN.

ROOM	MK.	MANUFACTURER	MATERIAL	PRODUCT	COLOR	REMARKS
FLOORING	LVT-1	CONTACT C.P.'S APPROVED VENDOR	STYLE: EF6PL	3 1/2' W x 31/4' L	8UP	DIRECT GLUE DOWN, LEFT TO RIGHT, SIDE TO SIDE
	FT-1	CONTACT C.P.'S APPROVED VENDOR	STYLE: CFFT	PORCELAIN TILE	LG90 BEIGE	12" x 12" FLOOR TILE W/ STAGGERED BRICK JOINT PATTERN W/ LATICRETE PERMACOLOR "56 DESERT KHAKI" GROUT 4 SCHLEUTER TRANSITION STRIP AT DOORWAY
BASE	WB-1		3/8" x 5' FRIMED MOF BASE	6W-1751	HIGH REFL. WHITE	5" HIGH BASE - PAINTED PT-4
WALLS	PT-1	SHERWIN WILLIAMS	PAINT	6W-6801	REGALE BLUE	SEMI-GLOSS
	PT-2	SHERWIN WILLIAMS	PAINT	6W-6515	LEISURE BLUE	SEMI-GLOSS
	PT-3	SHERWIN WILLIAMS	PAINT	6W-9046	GENTLE AQUAMARINE	SEMI-GLOSS
	PT-4	SHERWIN WILLIAMS	PAINT	6W-1751	HIGH REFL. WHITE	SEMI-GLOSS
	WT-1	CONTACT C.P.'S APPROVED VENDOR	STYLE: CFWT	PORCELAIN TILE	LG90 BEIGE	12" x 24" FLOOR TILE W/ STAGGERED BRICK JOINT PATTERN W/ LATICRETE PERMACOLOR "56 DESERT KHAKI" GROUT 4 SCHLEUTER TRANSITION STRIP AT TOP OF WAINSCOT
	WL-1	WALL MURAL TO BE DETERMINED BY OWNER				MURAL WALL TO BE FREE OF ANY TEXTURE
	WL-2	MARLITE	FRP	5100G	WHITE	WASHABLE FRP PANEL WITH 2'-0" OF NIP SINK TO 4'-0" AFF.
CEILING	PT-5	SHERWIN WILLIAMS	PAINT	6W-1001	CEILING BRIGHT WHITE	SEMI-GLOSS ON CEILING
	PT-6	SHERWIN WILLIAMS	PAINT	6W-6260	UNIQUE GRAY	SEMI-GLOSS ON OPEN TO STRUCTURE CEILING
	PT-7	SHERWIN WILLIAMS	PAINT	6W-6991	BLACK MAGIC	SEMI-GLOSS ON OPEN TO STRUCTURE CEILING
	CT-1	ARMSTRONG	CEILING TILE 2'-0" x 2'-0"	DUNE "850	WHITE	CEILING TILE AND GRID - SQUARE EDGE 15/16" USE W/ WHITE PRELUDE HEAVY DUTY ML 15/16" EXPOSED TEE GRID



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AROX

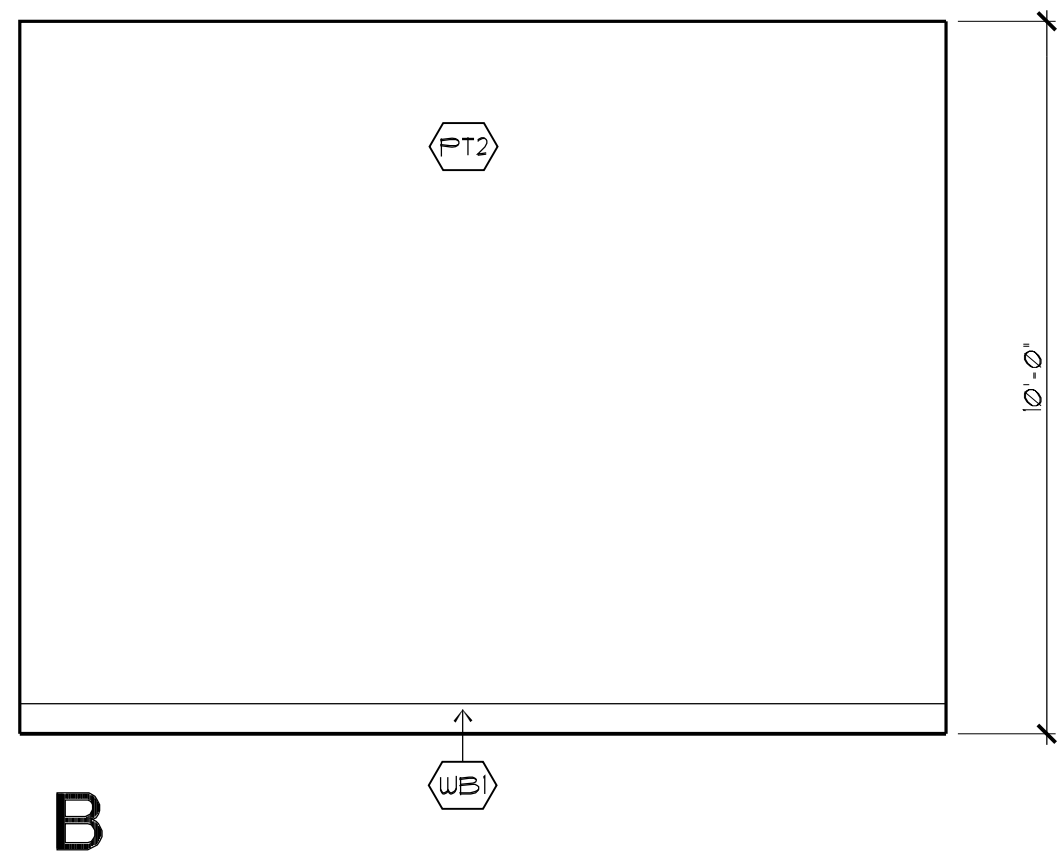
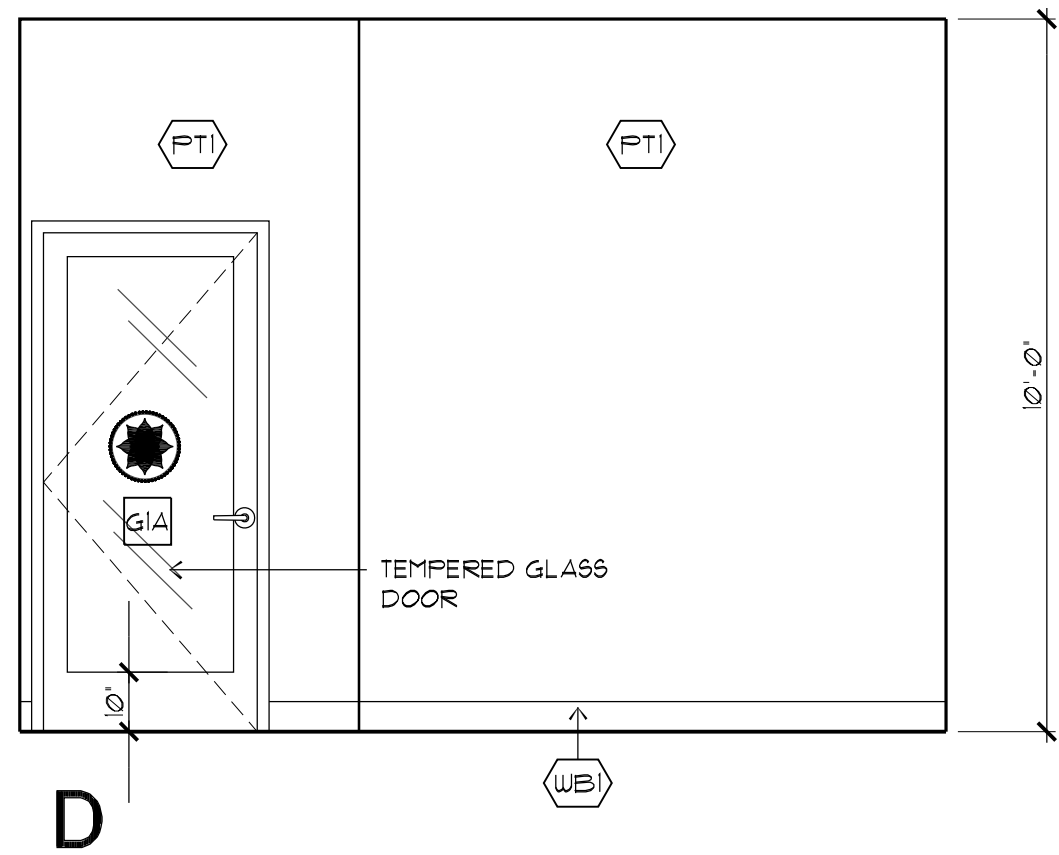


FINISH PLAN

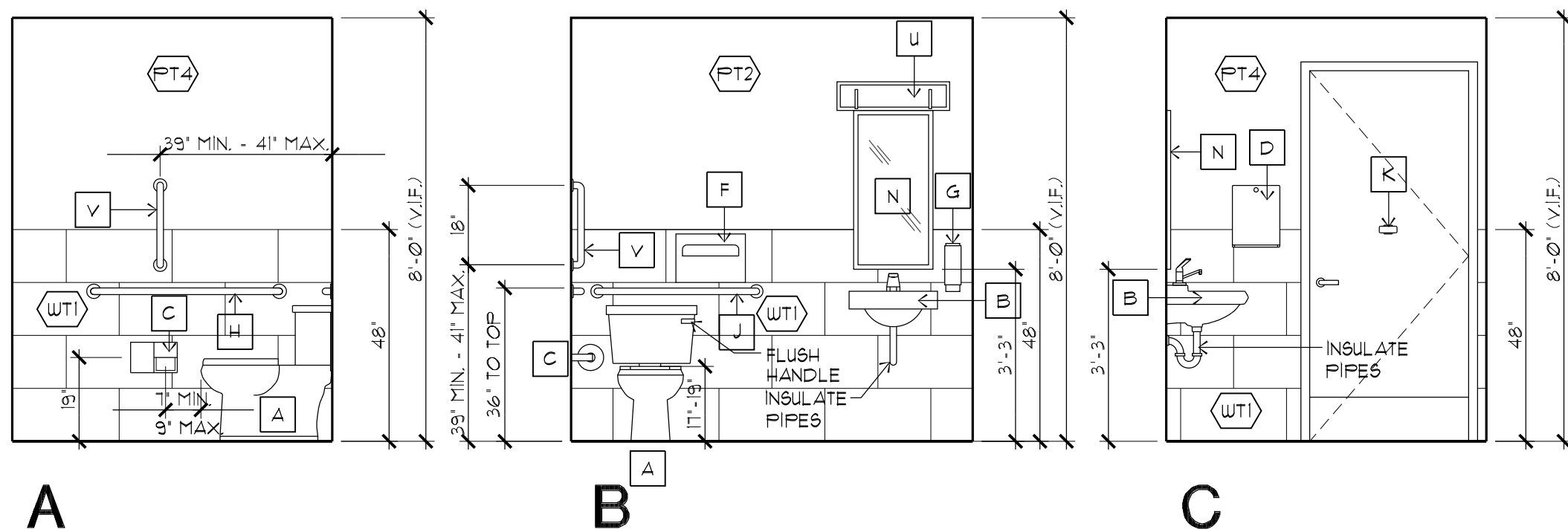
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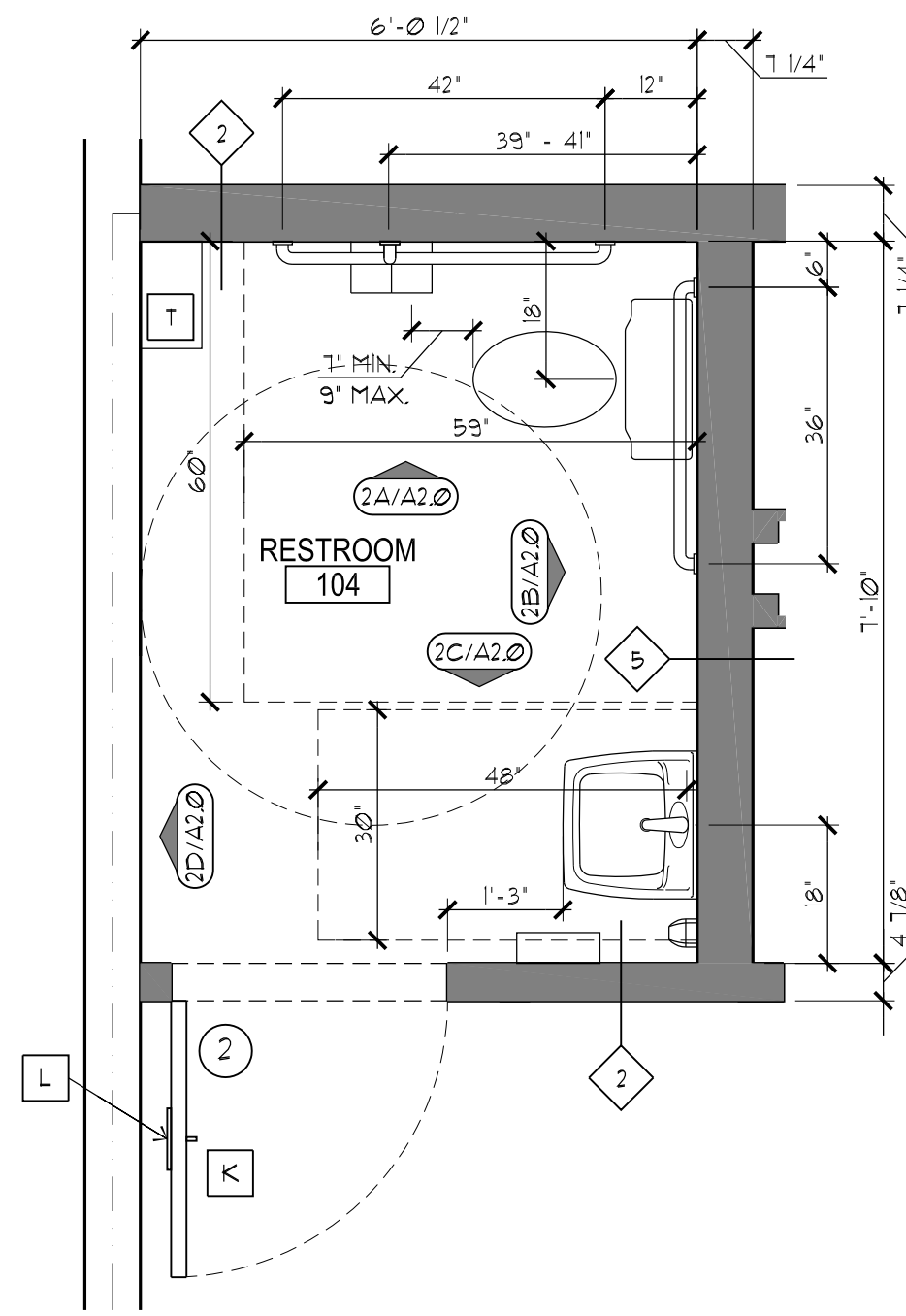
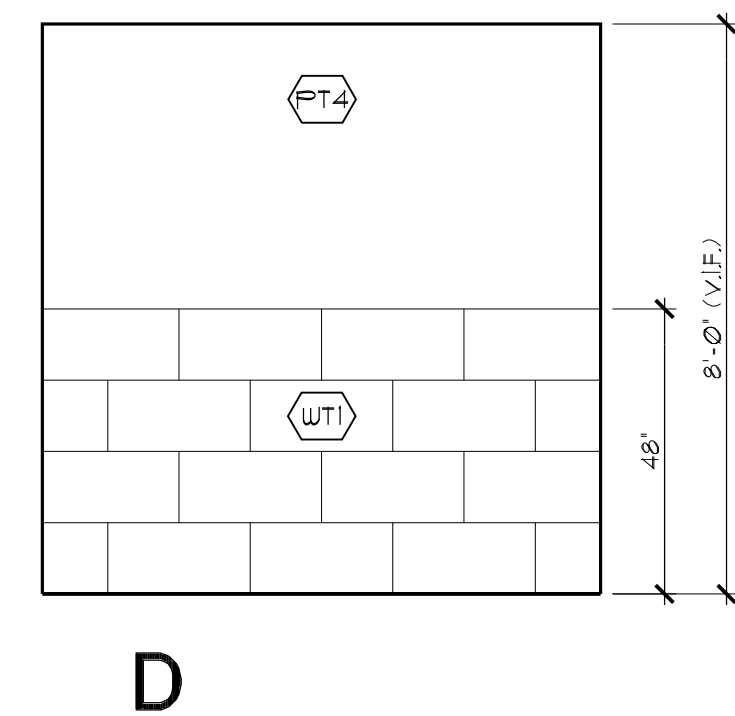
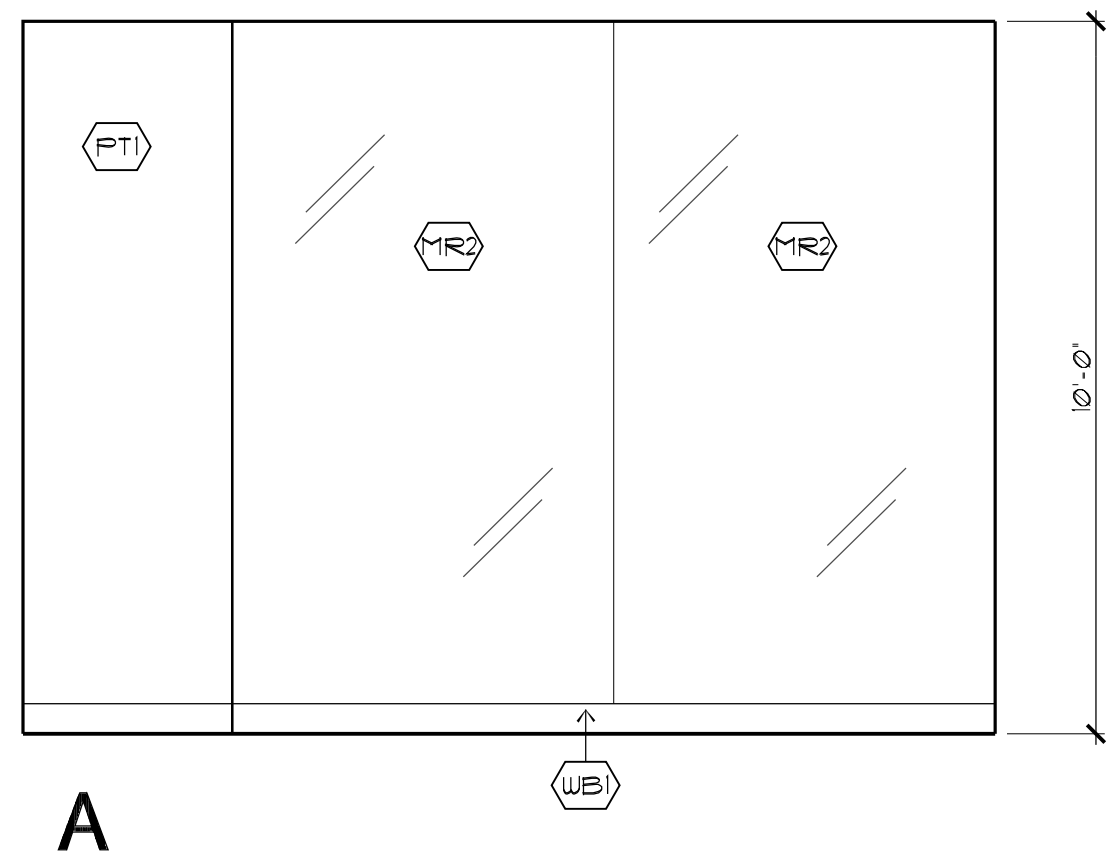
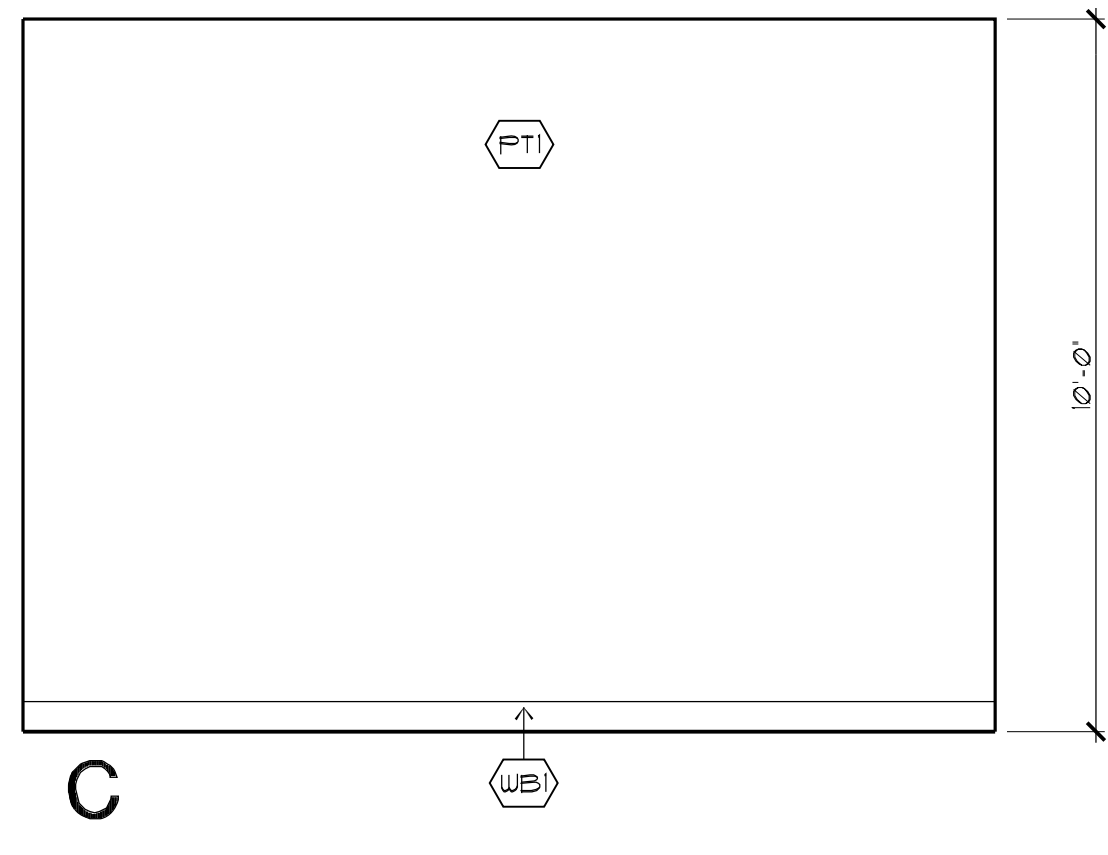
RESTROOM FIXTURE SCHEDULE				
MK.	DESCRIPTION	MANUF.	MODEL	REMARKS
A	TOILET	AMERICAN STANDARD	128 GPF OR EQUAL	FLOOR MOUNTED ELONGATED TOILET COLOR: WHITE
B	LAVATORY	AMERICAN STANDARD	COMRADE 0124024	WALL MOUNTED LAVATORY COLOR: 020 WHITE
	FAUCET	DELTA		
C	TOILET TISSUE DISPENSER	CINTAS	SIGNATURE SERIES	SURFACE MOUNTED TOILET TISSUE DISPENSER SANDSTONE
D	PAPER TOWEL DISPENSER	CINTAS	SIGNATURE SERIES	SURFACE MOUNTED PAPER TOWEL DISPENSER SANDSTONE
E	NAPKIN DISPOSAL	BOBRICK	B-210	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL CONTURA SERIES SATIN FINISH (OR EQUAL)
F	TOILET SEAT COVER DISPENSER	BOBRICK	B-221	SURFACE MOUNTED TOILET SEAT COVER DISPENSER CLASSICS SERIES SATIN FINISH (OR EQUAL)
G	SOAP DISPENSER	CINTAS	SIGNATURE SERIES	AUTOMATIC HAND SOAP DISPENSER SANDSTONE
H	42" GRAB BAR	BOBRICK	B-6000-42"	HEAVY DUTY GRAB BAR STAINLESS STEEL
J	36" GRAB BAR	BOBRICK	B-6000-36"	HEAVY DUTY GRAB BAR STAINLESS STEEL
K	DOUBLE ROBE HOOK	BOBRICK	B-6121	SATIN FINISH (OR EQUAL)
L	DOOR MOUNTED SIGNAGE			SEE DETAIL
M	DOOR STRIKE SIDE MOUNTED SIGNAGE			SEE DETAIL
N	MIRROR	BOBRICK	B-230	1036 SERIES SATIN FINISH (OR EQUAL)
P	NOT USED			
S	SIGNAGE			CREW MUST WASH HANDS
T	TRASH CAN	CINTAS	SIGNATURE SERIES	SANDSTONE
U	VANITY LIGHT	AURORA SERIES		SURFACE MOUNTED 4-LIGHT FIXTURE CHROME W/ LINEN GLASS OR EQUAL
V	18" GRAB BAR	BOBRICK	B-6000-18"	VERTICAL HEAVY DUTY GRAB BAR STAINLESS STEEL



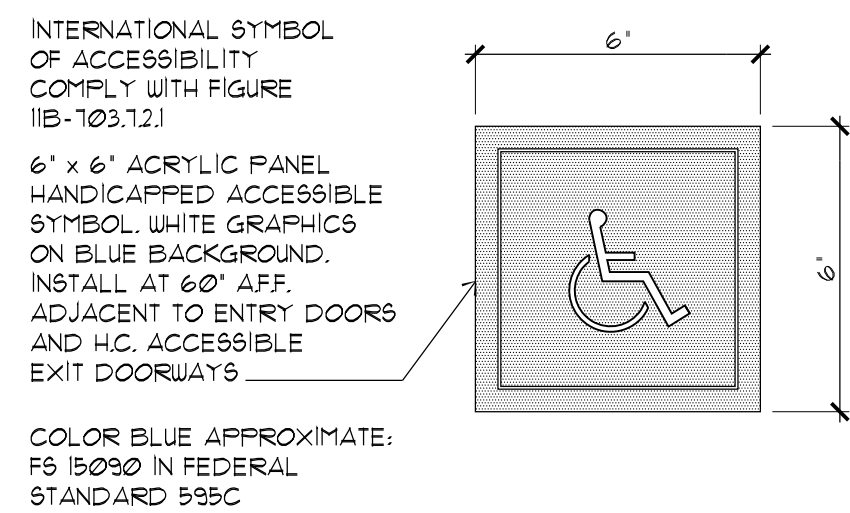
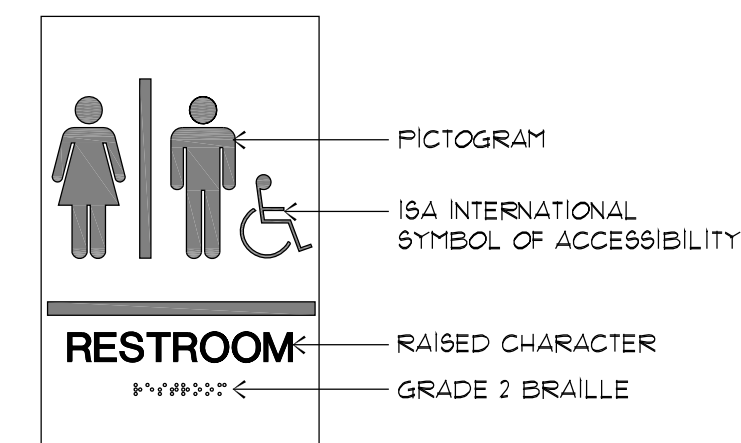
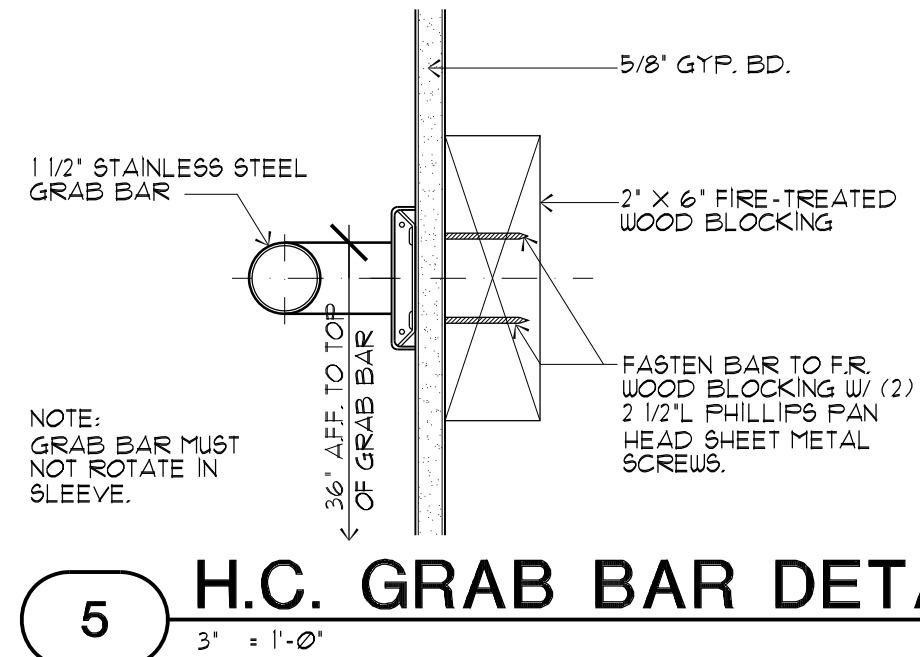
3 INTERIOR ELEVATION
A2.0-02



2 RESTROOM ELEVATIONS #104
A2.0-02



1 RESTROOM #104
A2.0-01



4 ACCESSIBLE SIGNAGE
A2.0-04

WATER CLOSET -
SEAT SHALL NOT BE SPRUNG
TO RETURN TO LIFTED POSITION

LAVATORY -
HOT WATER AND DRAIN PIPES
SHALL BE INSULATED.

GRAB BARS -
SHALL BE 1 1/2" DIA. WITH 1 1/2"
CLEARANCE TO WALL.
FASTENERS AND MOUNTING
SUPPORT SHALL BE ABLE TO
WITHSTAND 250 Lbf IN BENDING,
SHEAR, AND TENSION.

LAVATORY AND WATER CLOSET
CONTROLS -
SHALL BE OPERABLE WITH ONE
HAND AND NOT REQUIRE TIGHT
GRASPING, PINCHING, OR TWISTING
OF THE WRIST.
SHALL BE OPERABLE BY FORCE
OF MAX. 5 lbf.

REVISIONS:



CLUB PILATES
STREETS OF WEST PRYOR
940 NW PRYOR ROAD
SUITE - E
LEE'S SUMMIT, MO 64081

ROBERT QUINTANA
ARCHITECTS
14900 LANDMARK BLVD.
SUITE 530
DALLAS, TEXAS 75254
(972) 233-2718

ROQA



ENLARGED
RESTROOM
PLANS, DETAILS
AND ELEVATIONS

DATE: 02/23/21

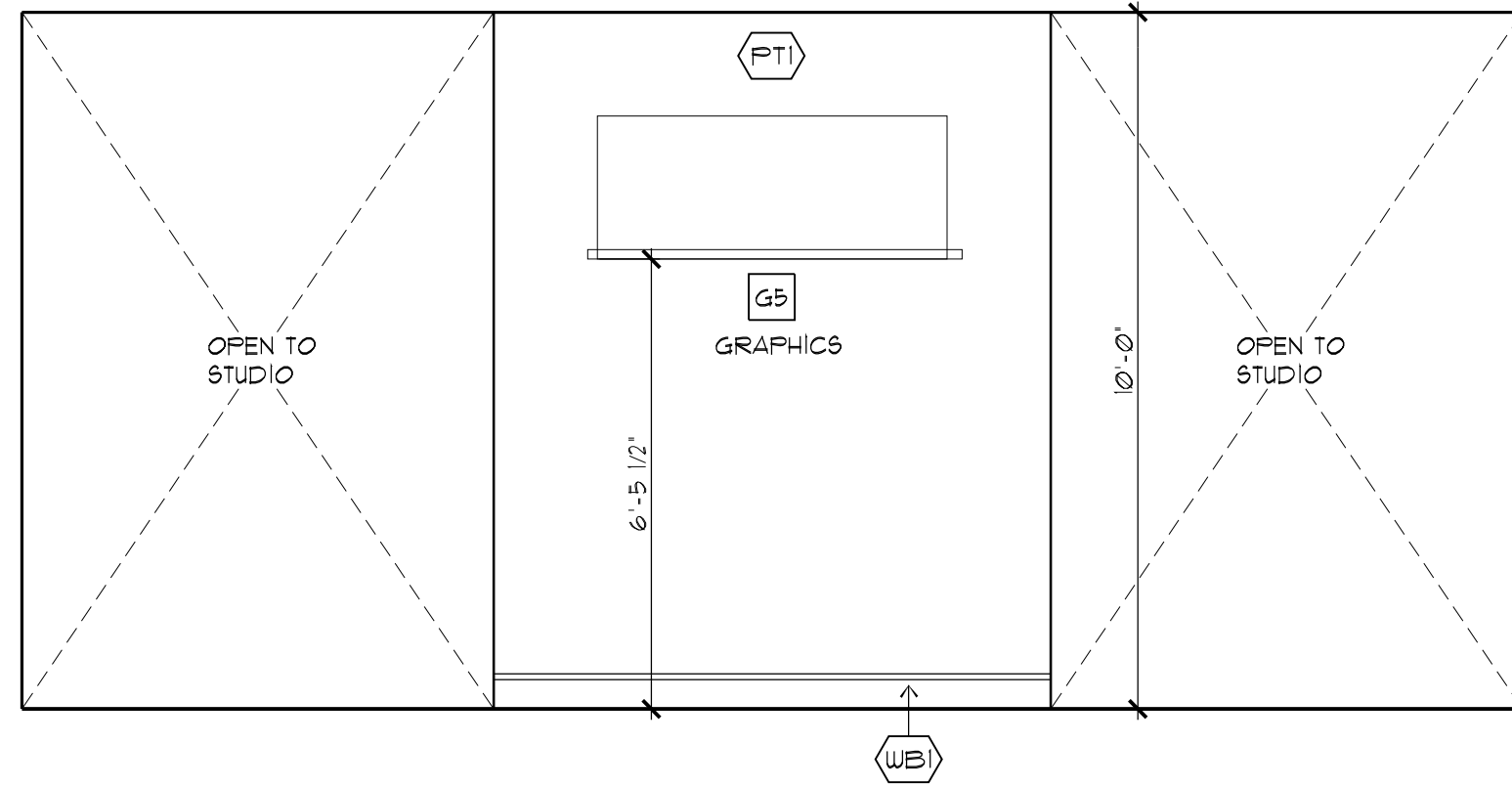
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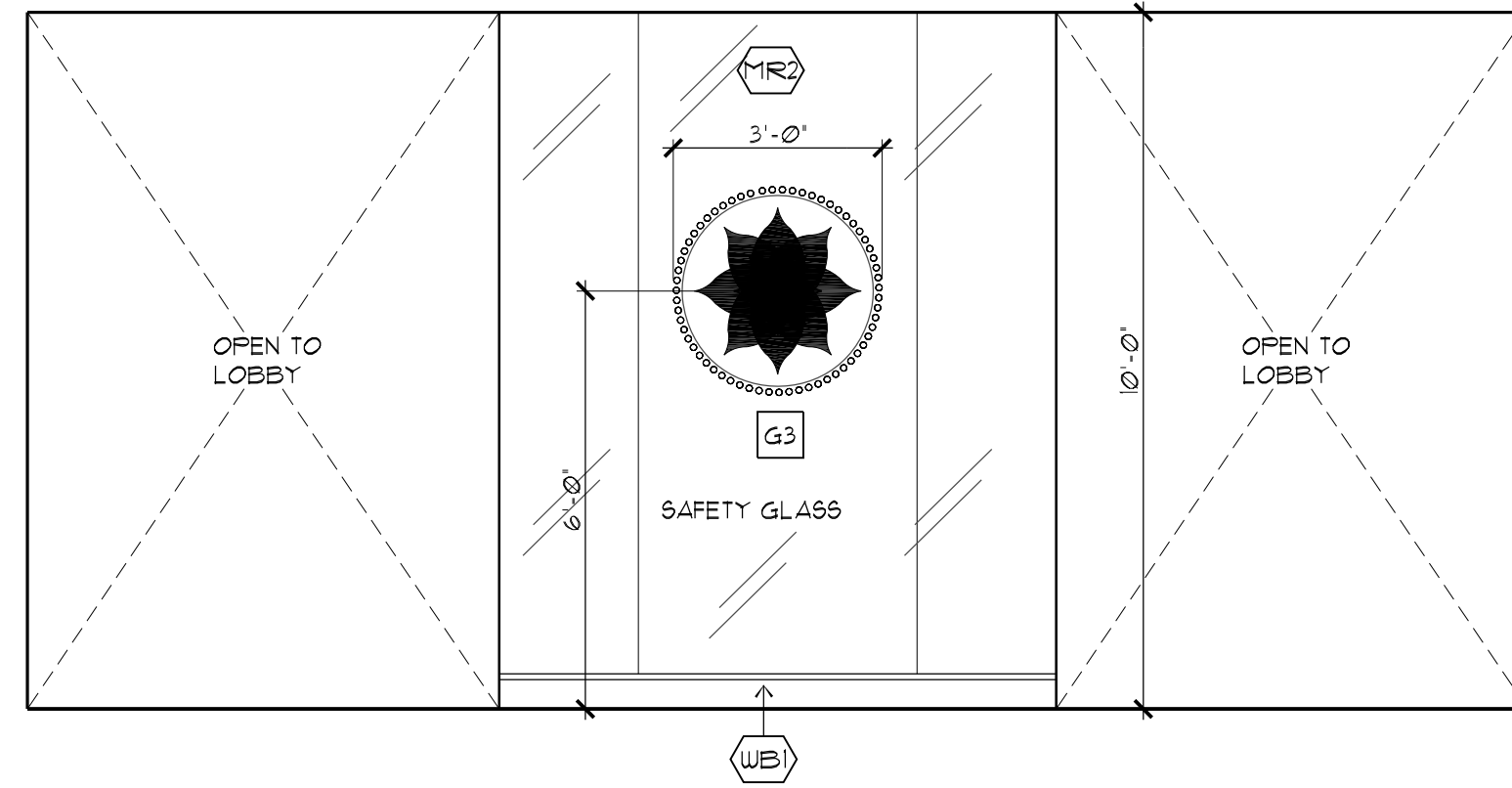
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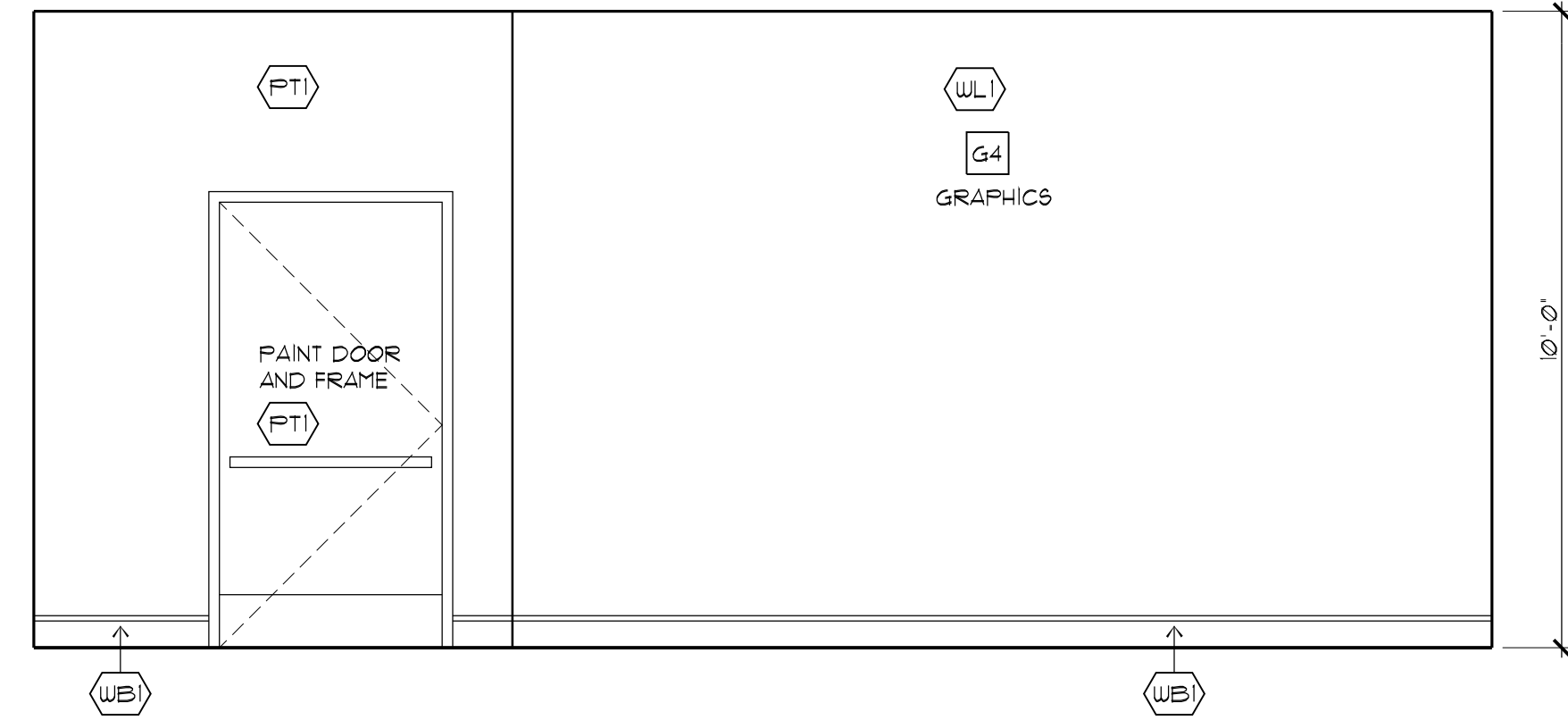
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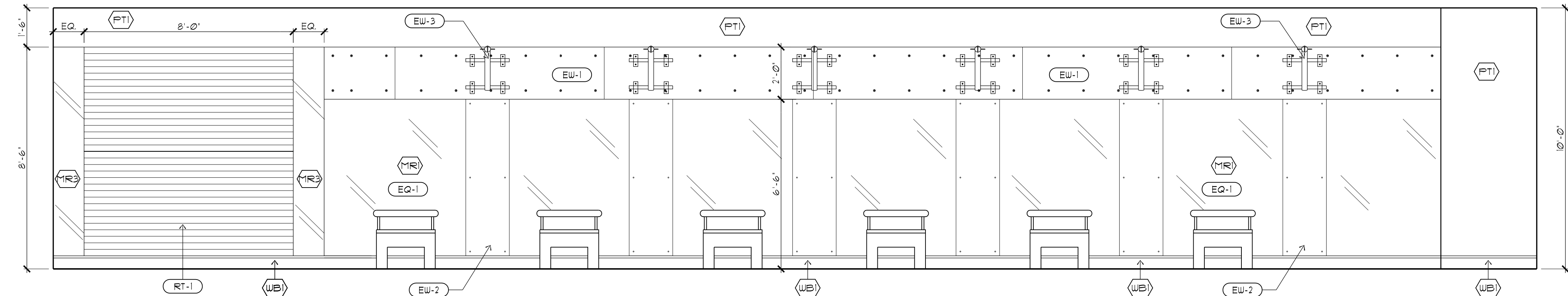
5 INTERIOR ELEVATION
3/8" = 1'-0"
182-ELE



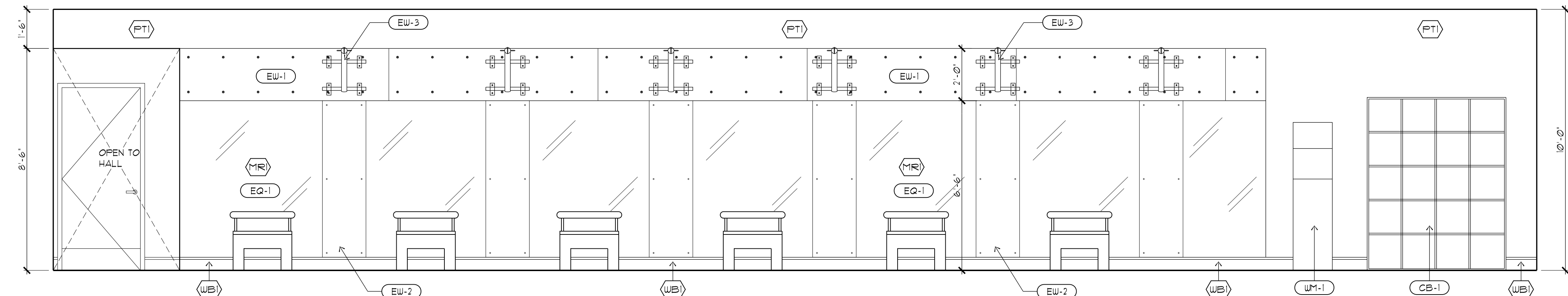
4 INTERIOR ELEVATION
3/8" = 1'-0"
182-ELE



3 INTERIOR ELEVATION
3/8" = 1'-0"
182-ELE



2 INTERIOR ELEVATION
3/8" = 1'-0"
182-ELE



1 INTERIOR ELEVATION
3/8" = 1'-0"
182-ELE

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INTERIOR
ELEVATIONS

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DRAWN BY: MC
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JOB NO. : 21-182
SHEET:

A2.1

NEW CONSTRUCTION SPECIFICATIONS PER AIA DIVISION
DIVISION 1 - GENERAL REQUIREMENTS
01010 SUMMARY OF WORK

THE DOCUMENTS INDICATE THE DESIGN AND CONSTRUCTION REQUIREMENTS OF CLUB PILATES FOR THIS FACILITY. THE PROJECT MANAGER WILL REVIEW SHOP DRAWINGS, REQUEST FOR SUBSTITUTIONS, INSPECT THE WORK FOR CONFORMANCE WITH TENANT REQUIREMENTS AND ISSUE INSTRUCTIONS AS NECESSARY. THE ARCHITECT SHALL HAVE ACCESS TO THE WORK AT ALL TIMES AND THE RIGHT TO REJECT WORK WHICH DOES NOT COMPLY WITH THE DOCUMENTS.

THE TENANT GENERAL CONTRACTOR (T.G.C. OR G.C.) SHALL SUPERVISE AND DIRECT THE WORK, USING HIS BEST SKILL AND ATTENTION AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK.

UNLESS OTHERWISE SPECIFICALLY PROVIDED IN THE DOCUMENTS, PROVIDE AND PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, WATER, HEAT, UTILITIES, TRANSPORTATION, AND OTHER FACILITIES AND SERVICES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK, WHETHER TEMPORARY OR PERMANENT AND WHETHER OR NOT INCORPORATED OR TO BE INCORPORATED IN THE WORK.

THE T.G.C. SHALL, AT ALL TIMES ENFORCE STRICT DISCIPLINE AND GOOD ORDER AMONG HIS EMPLOYEES AND SHALL NOT EMPLOY ON THE WORK ANY UNIT PERSON OR ANYONE NOT SKILLED IN THE TASK ASSIGNED TO HIM.

PAY ALL ROYALTIES AND LICENSE FEES. THE T.G.C. SHALL DEFEND ALL SUITS OR CLAIMS FOR INFRINGEMENT OF ANY PATENT RIGHTS AND SHALL SAVE THE TENANT HARMLESS FROM LOSS ON ACCOUNT THEREOF, TO THE FULLEST EXTENT PERMITTED BY LAW. THE T.G.C. SHALL INDEMNIFY AND HOLD HARMLESS THE TENANT AND THE ARCHITECT AND THEIR AGENTS AND AGENTS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIM, DAMAGE OR LOSS OR IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH, OR TO INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF) INCLUDING THE LOSS OR USE RESULTING THEREFROM, AND (2) IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION OF THE T.G.C., ANY SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR ANYONE FOR WHOMSE ACTS ANY OF THEM MAY BE LIABLE, REGARDLESS OF WHETHER OR NOT IT IS CAUSED IN PART BY A PARTY INDEMNIFIED HEREUNDER. SUCH OBLIGATION SHALL NOT BE CONSTRUED TO NEGATE, ABIDGE, OR OTHERWISE REDUCE ANY OTHER RIGHT OR OBLIGATION OF INDEMNITY WHICH WOULD OTHERWISE EXIST AS TO ANY PARTY OR PERSON DESCRIBED IN THE PARAGRAPH. IN ANY AND ALL CLAIMS AGAINST THE TENANT OR THE ARCHITECT OR ANY OF THEIR AGENTS OR EMPLOYEES OR ANY EMPLOYEE OF ANY EMPLOYEE OF ANY SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR ANYONE FOR WHOMSE ACTS ANY OF THEM MAY BE LIABLE, THE INDEMNIFICATION OBLIGATION UNDER THIS PARAGRAPH (2)(1) NOT BE LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OF TYPE OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE T.G.C. OR ANY SUBCONTRACTOR UNDER WORKERS' OR WORKMEN'S COMPENSATION ACTS, DISABILITY BENEFITS ACTS OR OTHER EMPLOYEE BENEFIT ACTS. THE OBLIGATION OF THE T.G.C. UNDER THIS PARAGRAPH SHALL NOT EXTEND TO THE LIABILITY OF THE ARCHITECT, HIS AGENTS OR EMPLOYEES, ARISING OUT OF (1) THE PREPARATION OR APPROVAL OF DRAWINGS, OPINIONS, REPORTS, SURVEYS, CHANGE ORDERS, DESIGNS OR SPECIFICATIONS, OR (2) THE GIVING OF OR THE FAILURE TO GIVE DIRECTIONS BY THE ARCHITECT, HIS AGENTS OR EMPLOYEES PROVIDED SUCH GIVING OR FAILURE TO GIVE IS THE PRIMARY CAUSE OF THE INJURY OR DAMAGE.

BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND PROVIDE ALL REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO (1) ALL EMPLOYEES ON THE WORK AND OTHER PERSONS WHO MAY BE AFFECTED THEREBY, (2) ALL THE WORK AND ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, AND (3) OTHER PROPERTY AT THE SITE OR ADJACENT THERETO. PROMPTLY REMEDY ALL DAMAGE OR LOSS TO ANY PROPERTY CAUSED IN WHOLE OR IN PART BY THE T.G.C. ANY SUB-CONTRACTOR, ANY SUBCONTRACTOR, OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR BY ANYONE FOR WHOMSE ACTS ANY OF THEM MAY BE LIABLE, EXCEPT DAMAGE OR LOSS ATTRIBUTABLE TO THE ACTS OR OMISSIONS OF THE TENANT OR ARCHITECT, OR ANYONE DIRECTLY EMPLOYED BY EITHER OF THEM OR BY ANYONE FOR WHOMSE ACTS EITHER OF THEM MAY BE LIABLE, AND ATTRIBUTE TO THE FAULT OR NEGLIGENCE OF THE T.G.C.

PURCHASE AND MAINTAIN PROPERTY INSURANCE UPON THE ENTIRE WORK AT THE SITE TO THE FULL INSURABLE VALUE THEREOF, INCLUDE THE INTERESTS OF THE TENANT, THE T.G.C., AND SUB-CONTRACTORS IN THE WORK AND INSURE AGAINST THE PERILS OF FIRE AND EXTENDED COVERAGE AND INCLUDE 'ALL RISK' INSURANCE FOR PHYSICAL LOSS OR DAMAGE INCLUDING WITHOUT DUPLICATION OF COVERAGE, THEFT, VANDALISM, AND MALICIOUS MISCHIEF.

PROMPTLY CORRECT ANY WORK REJECTED BY THE ARCHITECT AS DEFECTIVE OR AS FAILING TO CONFORM TO THE CONTRACT DOCUMENTS WHETHER OBSERVED BEFORE OR AFTER SUBSTANTIAL COMPLETION AND WHETHER OR NOT FABRICATED, INSTALLED, OR COMPLETED. CORRECT ANY WORK FOUND TO BE DEFECTIVE OR NONCONFORMING WITHIN A PERIOD OF THE AS MAY BE PRESCRIBED BY LAW OR BY THE TERMS OF ANY APPLICABLE SPECIAL WARRANTY REQUIRED BY THE CONTRACT DOCUMENTS.

EXAMINE THE SITE AND VERIFY ALL EXISTING CONDITIONS AND TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

TENANT MANUAL: SECURE A COPY OF TENANT HANDBOOK CONSTRUCTION LEASE EXHIBITS, AND ALL CRITERIA REGARDING CONSTRUCTION REQUIREMENTS, MECHANICAL, ELECTRICAL, AND PLUMBING WORK AND ALL OTHER CONSTRUCTION REQUIREMENTS. CONSIDER THESE CRITERIA A PART OF THESE CONTRACT DOCUMENTS. COMPLIANCE TO THESE CRITERIA IS MANDATORY AND A PART OF THE TENANT FINISH CONTRACTOR'S (T.G.C.) WORK.

01040 COORDINATION

COORDINATE CONSTRUCTION ACTIVITIES AND WORK INVOLVING LANDLORD e.g., SPRINKLER WORK, ROOF PENETRATIONS, CONTINUING MAIL FINISHES AT ENTRANCE AND CONNECTION TO MAIL SYSTEMS, INCLUDING BUT NOT LIMITED TO, HVAC, ELECTRICAL, AND PLUMBING.

01060 REGULATORY REQUIREMENTS

PAY ALL SALES, CONSUMER USE AND OTHER SIMILAR TAXES AND SECURE AND PAY FOR THE BUILDING PERMIT AND FOR ALL OTHER PERMITS AND GOVERNMENTAL FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK, AND PROMPTLY NOTIFY THE ARCHITECT IF THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH.

01300 SUBMITTALS

SHOP DRAWINGS, CATALOG, DATA AND SAMPLES ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY OTHER SECTIONS OF THESE SPECIFICATIONS, WILL BE SUBMITTED BY THE CONTRACTOR, IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

THE PURPOSE OF SUBMITTALS IS TO DEMONSTRATE THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, THE CONTRACTOR SHALL REVIEW SUBMITTALS AND STAMP WITH APPROVAL PRIOR TO SUBMISSION TO THE ARCHITECT. SUBMITTALS MADE WITHOUT THE CONTRACTOR'S APPROVAL INDICATED THEREON WILL BE RETURNED WITHOUT BEING REVIEWED.

01600 MATERIALS

THE T.G.C. WARRANTS TO THE TENANT AND THE ARCHITECT THAT ALL MATERIALS AND EQUIPMENT INCORPORATED IN THE WORK WILL BE NEW UNLESS OTHERWISE SPECIFIED, AND THAT ALL WORK WILL BE OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

PRODUCT OPTION AND SUBSTITUTIONS:

- A. FOR PRODUCTS SPECIFIED ONLY BY REFERENCE STANDARD, SELECT ANY PRODUCT MEETING THAT STANDARD.
B. FOR PRODUCTS SPECIFIED BY NAME, SEVERAL PRODUCTS OR MANUFACTURERS SELECT ANY ONE OF THE PRODUCTS OR MANUFACTURERS NAMED, WHICH COMPLIES WITH THE SPECIFICATION.
C. FOR PRODUCTS SPECIFIED BY NAMING ONE OR MORE PRODUCTS OR MANUFACTURERS AND 'OR EQUAL', CONTRACTOR MUST SUBMIT A REQUEST AS FOR SUBSTITUTIONS FOR ANY PRODUCT OR MANUFACTURER NOT SPECIFICALLY NAMED.
D. FOR PRODUCTS SPECIFIED BY NAMING ONLY ONE PRODUCT AND MANUFACTURER, THERE IS NO OPTION.
E. FOR A PERIOD OF 30 DAYS AFTER THE CONTRACT DATE, ARCHITECT WILL CONSIDER WRITTEN REQUEST FROM CONTRACTOR FOR SUBSTITUTION OF PRODUCTS. ARCHITECT SHALL BE THE JUDGE OF THE ACCEPTABILITY OF THE PROPOSED SUBSTITUTION.

01700 PROJECT CLOSEOUT

COMPLETION DATE: THE TIME AT WHICH THE STORE IS RELEASED TO THE OWNER AS ORIGINALLY AGREED UPON BY OWNER AND T.G.C.. THE FOLLOWING WORK MUST BE COMPLETED:

- A. ALL UTILITIES CONNECTED AND IN USE.
B. ELECTRICAL PANELS COMPLETE AND ALL CIRCUITS LABELED.
C. SALES AREA FITTING AREA AND STOREFRONT COMPLETE (CEILING, FLOORS, LIGHTING, FINISHES, ETC.)
D. ALL DOORS AND HARDWARE INSTALLED.
E. ALL QUINER SURFACES, ITEMS ASSEMBLED AND IN PLACE.
F. CLEAN-UP COMPLETE.

DIVISION 2 - SITEWORK

02050 DEMOLITION

REMOVE ALL ITEMS WHICH ARE NOT AN INTEGRAL PART OF THE NEW CONSTRUCTION INCLUDING EXISTING BUT NOT LIMITED TO EXISTING EXTERIOR, INTERIOR PARTITIONS, AND ALL FINISH MATERIALS. HAUL AND DISPOSE UNLESS DIRECTED OTHERWISE.

DIVISION 3- CONCRETE

03300 CAST-IN-PLACE CONCRETE

WHERE THE TENANT MANUAL REQUIRES THE T.G.C. TO PROVIDE A CONCRETE SLAB, PROVIDE SLAB TO MEET TENANT MANUAL REQUIREMENTS WITH THE FOLLOWING REQUIREMENTS AS A MINIMUM:

- A. 4" CONCRETE SLAB -4,000 PSI CONCRETE WITH 1 1/2 POUNDS FIBERESH FIBERS PER CUBIC YARD OVER 6 MIL POLYETHYLENE VAPOR BARRIER.
B. KEYS OR BAIN CONTROL JOINTS, NOT LESS THAN 1/4 OF SLAB THICKNESS, AT COLUMN LINES WITH ISOLATION POCKETS NOT DEEPER THAN TO EXCEED 30X30 INCH. AVOID PLACING JOINTS IN THE FIELD OF CERAMIC OR QUARRY TILE.
C. PROVIDE TERMITE PROTECTION UNDER SLAB WITH A TOXICANT ACCEPTABLE TO THE FOREST SERVICE OF THE U.S. DEPARTMENT OF AGRICULTURE AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

03700 CONCRETE RESTORATION/ BLOCK OUTS

PATCH EXISTING SLABS AS REQUIRED BY ARCHITECT. REMOVE LOOSE PARTICLES AND CHIP OUT ADJACENT SOUND CONCRETE TO AVOID FEATHER EDGE PATCHES. APPLY COATING OF BONDING AGENT TO AREAS BEING PATCHED. BRING PATCH TO SAME LEVEL AS ORIGINAL CONCRETE.
AT UTILITY BLOCK OUTS: PROVIDE 4' X 2' DOUELS 9' 12' O.C. AROUND PERIM EPOXY 6" INTO EXIST. SLAB.

DIVISION 5- METALS

05950 MISCELLANEOUS METAL

SHOP DRAWINGS: INDICATE SIZES, SHAPES, FABRICATION AND INSTALLATION DETAILS FOR MISCELLANEOUS METAL ITEMS. INDICATE ANCHORAGE TO ADJACENT SURFACES.

FIELD MEASUREMENTS: TAKE FIELD MEASUREMENTS PRIOR TO PREPARATION OF SHOP DRAWINGS AND FABRICATION, WHERE POSSIBLE, TO ENSURE FITTING OF WORK.

MATERIAL: PROVIDE ITEMS INDICATED OR REQUIRED TO COMPLETE WORK, INCLUDING BUT NOT LIMITED TO: ANGLES AND BRACING NOT SUPPLIED BY MANUFACTURER, CHANNEL FRAMES FOR OVER-HEAD DOORS COMPLETE WITH ANCHORS AND PLATES; STRUCTURAL SUPPORT FOR SIGNAGE.

STRUCTURAL STEEL: CONFORM TO ASTM A-36 AND ASTM A-572. STEEL PIPE: MEETING ASTM A53-B16, TYPE 9, GRADE A.

GRAB BAR CONCEALED ANCHOR PLATE, 12 GA. STEEL, 3" WIDE.

ALUMINUM: 6063-T6 ALLOY MEETING ASTM B221-B2

ALUMINUM FOR FORMING COLUMN COVERS: ALUMINUM ALLOY 5052, TEMPER SUITABLE FOR FORMING THICKNESS 0.088 SHEET.

TOLERANCES: SET WORK IN LOCATION WITH ALIGNMENT, AND ELEVATION, PLUMB, LEVEL, TRUE, AND FREE OR RACK, AS MEASURED FROM ESTABLISHED LINES AND LEVELS.

MACHINE FIELD AND SHOP ASSEMBLE MECHANICAL JOINTS TO FIT WITHIN APPROXIMATELY 1/4" OF PROPER POSITION. SIZES OF EACH ELEMENT OF AN ASSEMBLY SHALL BE CORRECT WITHIN 1/8" TOTAL SIZE OF FREE STANDING ASSEMBLY SHALL BE CORRECT WITHIN 1/2". INSTALL WORK IN ACCORD WITH APPROVED SHOP DRAWINGS.

FABRICATION AND ERECTION: CONFORM TO THE REQUIREMENTS OF AISC SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURE FOR BUILDINGS; 8TH EDITION, 1989 WITH SUPPLEMENTS.

FORM WORK TRUE TO LINE AND LEVEL WITH ACCURATE ANGLES AND SURFACES AND STRAIGHT SHARP EDGES. EXPOSED EDGES TO A RADIUS OF APPROXIMATELY 1/32". FORM BENT METAL CORNERS TO SHALLEST RADIUS POSSIBLE WITHOUT CAUSE GRAIN SEPARATION OF OTHERWISE IMPAIRING WORK.

WELD CORNERS AND SEAMS CONTINUOUSLY AND IN ACCORD WITH AISC RECOMMENDATIONS. GRIND EXPOSED WELDS SMOOTH TO FORM NEAT UNIFORM FILLET WITHOUT UNEVENING BASE METAL. REMOVE SLAG FROM UNEXPOSED WELDS BEFORE APPLYING SHOP COATING. FORM HOLD, BEND, OR SHAPE MEMBERS WITH CLEAN, SHARP ARISES, WITHOUT DENTS, SCRATCHES, CRACKS, AND OTHER DEFECTS.

EXPOSED FASTENINGS: SAME MATERIALS, COLOR AND FINISH AS MATERIAL TO WHICH APPLIED; COUNTERSUNK AND FINISHED FLUSH.

NOTE: AT RATED WALLS SUPPLY MINIMUM GAUGE AND THICKNESS FOR REQUIRED RATING.

FINISH PREPARATIONS: REMOVE SCALE, RUST, AND OTHER DELETERIOUS MATERIALS BEFORE APPLYING. ONE COAT PRIMER COMPATIBLE WITH REQUIRED FINISH COATS OF PAINT. COORDINATE SELECTION OF METAL PRIMER WITH FINISH PAINT REQUIREMENTS AS SPECIFIED IN PAINTING SECTION.

CHEMICALLY TREAT GALVANIZED SURFACES BEFORE SHOP COAST OF PAINT IS SPECIFIED TO PRODUCE PAINT BOND. GALVANIZE AFTER FABRICATION, EXCEPT FOR NUTS AND BOLTS.

COAT ALL ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC CHROMATE OR BUTYRATIC. SEPARATE DISSIMILAR METAL WITH ASPHALTIC COATING OR OTHER ISOLATING MATERIALS AS RECOMMENDED BY THE MANUFACTURER.

LEAVE METAL FABRICATION ITEMS READY TO RECEIVE FINISH WHEREAS APPLICABLE, IN ACCORDANCE WITH PAINTING SECTION.

DIVISION 6 - WOOD AND PLASTIC

06100 ROUGH CARPENTRY

NO WOOD FRAME ALLOWED. LUMBER: STANDARD GRADE ON NO. 2 SOUTHERN YELLOW PINE. LUMBER IN CONTACT WITH CONCRETE: NO. SOUTHERN YELLOW PINE PRESERVATIVE TREATED. PLYWOOD TYPES: AS RECOMMENDED FOR INTENDED USAGE BY AMERICAN PLYWOOD ASSOCIATION DESIGN GUIDE. ALL INTERIOR WOOD TRIM BLOCKING AND PLYWOOD: FIRE PROTECTIVE TREATED, BEARING A TREATMENT STAMP. SEPARATE INTERIOR WOOD FRAMING BLOCKING ANY PLYWOOD FROM CONTACT WITH CONCRETE FLOOR WITH 6 MIL POLYETHYLENE SHEET.

06410 ARCHITECTURAL CABINETS

MEET REQUIREMENTS OF ARCHITECTURAL WOODWORK INSTITUTE QUALITY STANDARDS, LAMINATE CLAD CABINETS, CUSTOM GRADE, CONCEALED JOINTS, DRAWER SLIDES, DRAWER PULLS AND OTHER HARDWARE AS INDICATED. SUBMIT COMPLETE SHOP DRAWINGS FOR CASEWORK INCLUDING SALES DESKS AND DISPLAY CABINETS. INDICATE CONSTRUCTION AND INSTALLATION DETAILS, SPECIES AND GRADES OF MATERIALS FINISHES, PLASTIC LAMINATE DESIGNS, AND CABINET HARDWARE.

06450 STANDING AND RUNNING TRIM

MEET ARCHITECTURAL WOODWORK INSTITUTE QUALITY STANDARDS, MEET REQUIREMENTS OF AWI 300 (THIS MUST BE MET), CUSTOM GRADE, FOR OPAQUE FINISH.

DIVISION 7- THERMAL AND MOISTURE PROTECTION

REFER TO TENANT MANUAL FOR ROOF PENETRATIONS. REPAIR OR REPLACE BUILDING ENVELOPE INSULATION AS REQUIRED.

DIVISION 8 - DOORS AND WINDOWS AND GLASS

08305 ACCESS DOORS

STEEL ACCESS DOOR FOR GUB CEILINGS WITH CONCEALED HARDWARE BY HILCOR, STYLE DW PHONE (409) 221-6899, OR EQUAL. DOOR IS TO BE SUPPLIED WITH PRIME COAT. INSTALL IN AREAS INDICATED AND PAINT TO MATCH ADJACENT CEILING. FOR NON-RATED CEILING ASSEMBLIES: MODEL NO. 3203-014, 14" X 14". FOR FIRE-RATED CEILING ASSEMBLIES: MODEL NO. 3210-016, 16" X 16".

08400 ENTRANCES AND STOREFRONTS

SHOP DRAWINGS: INDICATE PLANS, ELEVATIONS, AND CONSTRUCTION DETAILS WITH SECTIONS AND DETAILS AT FULL SCALE. INCLUDE GLAZING DETAILS AND GLASS THICKNESS.

STRUCTURAL ANALYSIS: FOR INSTALLATIONS WHERE GLASS IS NOT SUPPORTED ON ALL FOUR SIDES, SUBMIT ANALYSIS AND TEST DATA PREPARED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, ASSURING SAFE PERFORMANCE FOR THE SPECIFIC INSTALLATION.

STOREFRONT: REFER TO THE DRAWINGS AND SECTION 08800 FOR GLAZING. MAINTAIN 1/4" GAP BETWEEN GLASS PANELS AT STOREFRONT, UNLESS NOTED OTHERWISE.

08600 DOOR TYPES

REFER TO DOOR SCHEDULE ON DRAWING A-1

08700 FINISH HARDWARE

REFER TO DOOR SCHEDULE ON DRAWING A-1

KEYING: ESTABLISH KEYS BASED ON A MASTER KEY SYSTEM. OPERATE LOCKSETS BY CONSTRUCTION KEY SYSTEM UNTIL DATE OF SUBSTANTIAL COMPLETION. AT THAT TIME, ASSIGN OWNER IN VOIDING CONSTRUCTION KEY SYSTEM. TRANSMIT KEYS EXCEPT CONSTRUCTION MASTER KEYS TO OWNER FROM HARDWARE SUPPLIER. INDEX, TAG AND DELIVER KEYS IN SEALED CONTAINER.

PROVIDE THE FOLLOWING NUMBER OF KEYS:
A. CONSTRUCTION MASTER KEY 9 SIX (6) EACH.
B. CHANGE KEYS: TWO (2) PER LOCK.
C. GREAT GRAND MASTER KEYS, GRAND MASTER KEYS, MASTER KEYS: SIX (6) EACH.

08800 GLAZING

GLASS TYPES: PITTSBURGH PLATE GLASS OR EQUAL.
TYPE A: 5/8" TEMPERED PLATE GLASS-CLEAR.
TYPE B: 1/4" POLISHED PLATE GLASS-MIRROR.
TYPE C: 1/2" POLISHED PLATE GLASS-CLEAR. ALL EDGES POLISHED.
ALL GLASS TYPE 'B': SET IN MASTIC AND POLISH GLASS.

DIVISION 9- FINISHES

REFERS TO MATERIAL SCHEDULE ON DRAWING A-1
REPAIR ANY DAMAGE TO EXISTING WALL TO MAINTAIN THE INTEGRITY OF TENANT SEPARATION AND PROVIDE PROPER SURFACE FOR FINISHING.

09200 LATH & PLASTER

WHERE INDICATED ON DRAWINGS INSTALL METAL MOLDBOES AS MANUFACTURED BY FRY REGLET CORPORATION OR EQUAL. TYPE, SIZE AND FINISH AS INDICATED.

09250 GYPSUM WALLBOARD SYSTEM

METAL STUDS, FLOOR AND CEILING RUNNERS, FURRING CHANNELS ARE GALVANIZED STEEL AS MANUFACTURED BY U.S. GYPSUM COMPANY OR EQUAL. REFER TO USG CURRENT MANUAL FOR GAUGES/SIZE/SPACING.

FRAMING MEMBERS:
A. STANDARD METAL STUDS: ASTM C645-B; MIN. 25 GAUGE UNCOATED THICKNESS MINIMUM ELECTRO-GALVANIZED STEEL, 1 1/4" DEEP BY REQUIRED WIDTHS AND LENGTHS INDICATED. ACTUAL GAUGE AS REQUIRED BY PARTITION HEIGHT IN ACCORD WITH STUD MANUFACTURER'S PRODUCT DATA FOR HEIGHT GAUGE LIMITATIONS.
B. FLOOR AND CEILING RUNNERS: ELECTRO-GALVANIZED STEEL, 1" DEEP, MINIMUM BY WIDTHS TO RECEIVE STUDS, SAME GAUGE UNCOATED THICKNESS AS STUDS.
NOTE: AT RATED WALLS SUPPLY MINIMUM GAUGE AND THICKNESS FOR REQUIRED RATING.

GYPSUM WALLBOARD TYPES: U.S. GYPSUM CO. OR EQUIVALENT, TYPE SWL WALLBOARD.
TYPE A: (AT FIRE RATED ASSEMBLIES) 5/8" SHEETROCK FIRE CODE 'X'.
TYPE B: (TYPICAL) 5/8" REGULAR PANELS WITH TAPERED EDGE.
TYPE C: (UET AREAS) 5/8" TYPE VII GRADE WATER RESISTANT, ASTM C630.

FASTENERS:
A. FASTENERS FOR METAL FRAMING:
1. ATTACHING METAL RUNNERS AND FURRING CHANNELS TO CONCRETE AND MASONRY: POWDER ACTUATED TYPE CAPABLE OF WITHSTANDING 193 LBS. SINGLE SHEAR AND 200 LBS. BEARING FORCE WITHOUT EXCEEDING ALLOWABLE STRESS DESIGN OF FASTENER OR MEMBER BEING FASTENED.
2. FASTENING TO METAL DECKING AND FASTENING FRAMING MEMBERS TOGETHER: TYPE S, PAN HEAD, IS N328 RECOMMENDED BY GYPSUM BOARD MANUFACTURE FOR APPLICATIONS INDICATED.
B. SCREWS FOR GYPSUM BOARD APPLICATION:
1. APPLICATION OF SINGLE LAYER OF GYPSUM BOARD TO METAL FRAMING: MEET ASTM C644-B OR ASTM C934-B; 1" LENGTH MINIMUM TYPE S, BUGLE HEAD.
2. APPLICATIONS NOT LISTED: CONFORM TO GYPSUM BOARD MANUFACTURER'S PRODUCT LITERATURE FOR CONDITIONS ENCOUNTERED.

METAL ACCESSORIES:
A. CORNER BEADS: DUE-A-BEAD NO. 101 GALVANIZED AT ALL CORNERS-TYPICAL.
B. CASING BEADS USG NO. 200-B METAL TRIM GALVANIZED.

FRAMING AND FURRING INSTALLATION:
A. RUNNERS:
1. ATTACH AT FLOOR AND UNDERSIDE OF STRUCTURAL DECK WITH SPECIFIED FASTENERS SPACED AT 2'-0" O.C. MAXIMUM.
2. ATTACH TO CEILING SUSPENSION SYSTEM WHERE PARTITIONS ARE INDICATED TO STOP AT FINISH CEILING; USE 1/8" TOGGLE BOLTS OR SHEET METAL SCREWS SPACED AT 1'-4" O.C. MAXIMUM.

SINGLE LAYER APPLICATION:
A. WALL:
1. APPLY GYPSUM BOARD HORIZONTALLY.
2. STAGGER END JOINTS IN OPPOSITE SIDES OF PARTITIONS.
3. TERMINATE ENDS OF GYPSUM BOARD ON FRAMING OR FURRING MEMBERS.
B. FASTENING: ATTACH GYPSUM BOARD USING FASTENERS SPECIFIED AT SPACING REQUIRED BY MANUFACTURER'S PRODUCT DATA.

JOINT TREATMENT:
A. APPLY JOINT COMPOUND TO JOINTS AND ANGLES IN GYPSUM BOARD AND EMBED JOINT TAPE. APPLY TWO ADDITIONAL COATS OF COMPOUND OVER TAPE. ALLOW DRYING BETWEEN COATS, FEATHER EDGE AND SAND EACH COAT.
B. APPLY MINIMUM OF THREE COATS OF COMPOUND OVER FASTENER DEPRESSIONS, SAND EACH COAT AND BRING TO LEVEL. PLANE OF GYPSUM BOARD SURFACE.

C. FASTENER POP:
1. REPAIR FASTENER POP BY INSTALLING SECOND FASTENER APPROXIMATELY 1 1/2" FROM FASTENER POP AND RESET FASTENER.
2. WHERE FACE PAPER IS PUNCTURED, DRIVE NEW FASTENER APPROXIMATELY 1 1/2" FROM DEFECTIVE FASTENER AND REMOVE DEFECTIVE FASTENER.
3. FILL DAMAGED SURFACE WITH COMPOUND AND SAND TO LEVEL OF PLANE OF GYPSUM BOARD.

D. FILL CRACKS WITH COMPOUND, SAND SMOOTH AND FLUSH.
E. DUST SURFACE: LEAVE READY FOR DECORATION.

09300 STONE/TILE

REFERS TO MATERIAL SCHEDULE ON DRAWING A-1.
METAL EDGE ANGLE: ZINC ANGLE, 3/32" THICK. LENGTH OF LEG TO MATCH THICKNESS OF TILE PLUS SETTING BED. KLEIN CO. INC. 800-241-0681.
FOLLOW MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR STORAGE, SURFACE PREPARATION AND APPLICATION.
PREPARE SUBSTRATE TO RECEIVE TILE (INCLUDING FLOORS AND WALLS) IN ACCORDANCE WITH REQUIREMENTS FOR EACH TYPE OF TILE APPLICATION. TILE SUBCONTRACTOR TO VERIFY THAT SURFACES ARE PROPERLY CLEANED AND PREPARED PRIOR TO BEGINNING INSTALLATION.
ALLOWABLE TOLERANCES: PLUMB, LEVEL, AND TRUE TO LINE WITHIN 1/2" IN AN UNDIVIDED SPACE AND WITHIN 1/16" MAXIMUM AT JOINTS.
TRIM SHAPES: MATCH TILE IN COLOR AND SIZE FOR DRY-SET APPLICATION. INCLUDE BASE AS REQUIRED.

09300 STONE/TILE

REFERS TO MATERIAL SCHEDULE ON DRAWING A-1.

INSTALL AND GROUT TILE IN ACCORDANCE WITH THE FOLLOWING TCA HANDBOOK STANDARDS:
A. FLOORS, INTERIORS, CONCRETE: F131 DRY-SET MORTAR, BONDED.
B. WALLS, INTERIOR WOOD OR METAL STUDS: W243-871 GYPSUM WALLBOARD: DRY-SET MORTAR, BONDED.
C. AT ANY SLAB C.J. INSTALL TILE C.J. TCA EJ11, SEALANT TO MATCH GROUT COLOR.
GROUT: MIX AND APPLY GROUT ACCORDING TO MANUFACTURER'S INSTRUCTION. SEE FINISH LEGEND.
FOLLOW MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR PROTECTION AND CLEANING.

09510 ACOUSTICAL CEILINGS

PRODUCTS LISTED ARE MANUFACTURED BY ARMSTRONG INDUSTRIES, EQUAL ACCEPTED.
REFER TO MATERIAL SCHEDULE ON SHEET A-1

09650 RESILIENT FLOORING

REFER TO MATERIAL SCHEDULE ON DRAWING A-1.

FOLLOW MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR STORAGE, SURFACE PREPARATION AND APPLICATION.
PROTECT FINISHED FLOORING BASE AND ACCESSORIES FROM STAINING, MARKING OR OTHER PHYSICAL DAMAGE BY WORK OF OTHER TRADES. COVER AND MASK SURFACES AS REQUIRED.

INSTALL VINYL REDUCERS AT VCT AND CONCRETE FLOOR TRANSITION, SAME THICKNESS AS VCT 1 1/2" WIDE WITH TAPERED EDGE.
LAY TILE IN PATTERNS AND LOCATIONS INDICATED. CUT BORDER TILE TO FIT WITHIN 1/32" OF ADJUTING SURFACE.
UNLESS NOTED OTHERWISE, LAY TILE WITH GRAIN OF PATTERN RUNNING IN SAME DIRECTION BETWEEN ADJACENT TILES.

INSTALL WITH TIGHT BUTT JOINTS WITH NO JOINT WIDTHS GREATER THAN 1/64". UPON COMPLETION OF INSTALLATION, CLEAN SURFACES USING NEUTRAL CLEANER ACCEPTABLE TO MATERIAL MANUFACTURER.
APPLY SILICONE SEALANT (WHITE) AT RESILIENT FLOORING/PLUMBING FIXTURE JOINTS.
JUST PRIOR TO DATE OF SUBSTANTIAL COMPLETION, APPLY TWO COATS OF NON-SLIP WAX TO CLEAN FLOOR SURFACES AND BUFF.
VINYL BASE: USE PERFORMED CORNERS AT VINYL BASE-TYPICAL.

09900 PAINT
FOLLOW MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR STORAGE, SURFACE PREPARATION AND APPLICATION.
SUBMIT TWO SETS OF COLOR SAMPLES MATCHED TO COLORS INDICATED FORM PAINT MANUFACTURERS PROPOSED FOR USE, FOR APPROVAL BY PROJECT COORDINATOR.
UNLESS NOTED OTHERWISE, PAINT THE FOLLOWING ITEMS THE SAME COLOR AS ADJACENT SURFACE: SUPPLY AND RETURN AIR GRILLES.

SURFACES TO RECEIVE FINISHED TO BE DRY, FREE OF DEBRIS, DUST, GREASE, OIL OR OTHER DELETERIOUS MATERIALS.
PRIMER COATS MAY BE OMITTED FOR SURFACES SPECIFIED TO RECEIVE FACTORY APPLIED PRIMER IF FINISH COATS ARE COMPATIBLE WITH PRIMER. SUBSTITUTE BOND COAT AS RECOMMENDED BY PAINT MANUFACTURER FOR SPECIFIED PRIMER COAT IF FINISH COATS ARE NOT COMPATIBLE WITH PRIMER. PAINT INSIDE OF DUCTWORK FLAT BLACK FOR ENTIRE AREA VISIBLE THROUGH CEILING OPENING.
FINISH COATS: SMOOTH, FREE OF BRUSH MARKS, STREAKS LAPS OR FLE-UP OF PAINT, SKIPS, OR MISSED AREAS.

FOLLOW MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR STORAGE, SURFACE PREPARATION AND APPLICATION.
SUBMIT TWO SETS OF COLOR SAMPLES MATCHED TO COLORS INDICATED FORM PAINT MANUFACTURERS PROPOSED FOR USE, FOR APPROVAL BY PROJECT COORDINATOR.
UNLESS NOTED OTHERWISE, PAINT THE FOLLOWING ITEMS THE SAME COLOR AS ADJACENT SURFACE: SUPPLY AND RETURN AIR GRILLES.

SURFACES TO RECEIVE FINISHED TO BE DRY, FREE OF DEBRIS, DUST, GREASE, OIL OR OTHER DELETERIOUS MATERIALS.
PRIMER COATS MAY BE OMITTED FOR SURFACES SPECIFIED TO RECEIVE FACTORY APPLIED PRIMER IF FINISH COATS ARE COMPATIBLE WITH PRIMER. SUBSTITUTE BOND COAT AS RECOMMENDED BY PAINT MANUFACTURER FOR SPECIFIED PRIMER COAT IF FINISH COATS ARE NOT COMPATIBLE WITH PRIMER. PAINT INSIDE OF DUCTWORK FLAT BLACK FOR ENTIRE AREA VISIBLE THROUGH CEILING OPENING.
FINISH COATS: SMOOTH, FREE OF BRUSH MARKS, STREAKS LAPS OR FLE-UP OF PAINT, SKIPS, OR MISSED AREAS.

ACCEPTABLE MANUFACTURERS: EXCEPT AS OTHERWISE NOTED, PRODUCTS SPECIFIED AS STANDARD OF QUALITY ARE MANUFACTURED BY GILDDEN COATINGS AND RESINS DIV./SCH CORP. PRODUCTS OF FOLLOWING MANUFACTURERS SIMILAR IN TYPE AND QUALITY ARE ACCEPTABLE FOR USE, SUBJECT TO APPROVAL OF PRODUCT LIST.
A. BENJAMIN MOORE COMPANY.
B. BOWEN WHITE INDUSTRIES COMPANY.
C. DUKON, INC.
D. PORTER PAINT COMPANY.
E. PRATT AND LEBERT, INC.
F. PPG INDUSTRIES, INC.
G. SHERWIN-WILLIAMS COMPANY.
GYPSUM BOARD:
A. FILL NARROW, SHALLOW CRACKS AND SMALL HOLES WITH PATCHING PLASTER OR BRICKING COMPOND. ALLOW TO DRY, SAND SMOOTH WITHOUT RESIN NAP OF GYPSUM BOARD PAPER.
B. WALL SURFACES DESIGNATED TO RECEIVE SEMI OR GLOSS FINISH: ROLL APPLY 'BLATTER CONSISTENT' MIXTURE OF GYPSUM BOARD JOINT COMPOUND AND WATER TO SURFACES. REMOVE IMMEDIATELY WITH WIDE BRUSH OR WIRE BRUSH. INTERIOR WOOD FRAMING BLOCKING ANY PLYWOOD FROM CONTACT WITH CONCRETE FLOOR WITH 6 MIL POLYETHYLENE SHEET.

PREVIOUSLY PAINTED SURFACES: DULL PREVIOUSLY PAINTED HARD GLOSSY FINISHES WITH SANDPAPER OR OTHER ABRASIVE METHOD TO INSURE ADHESION. 60/100 FINE WITH 1/4" PRIMER RECOMMENDED FOR NEW SURFACES ALL PREVIOUSLY PAINTED SURFACES AND SHOP PRIMED SURFACES WHICH ARE PARTIALLY REMOVED BY BLISTERING, PEELING, RUPTURE OR SCRATCHING, COMPLETELY REMOVE THE PREVIOUS COATING IF MORE THAN 25% OF IT HAS FAILED OR IF THE PREVIOUS COATING CAN BE EASILY SCRAPED OFF THE SURFACE, OR IF IT LIFTS UP UPON APPLICATION OF FIRST NEW COAT.

INTERIOR PAINTING SCHEDULE:
A. GYPSUM WALL BOARD: (BELOW 8'; SEMI GLOSS)
1. FIRST COAT: ULTRA-HIDE PVA PRIMER SEALER NO. 5019 AT 11 MILS DFT.
2. SECOND COAT: LATEX LOU-LUSTRE NO. 5800 SERIES AT 14 MILS DFT.
3. THIRD COAT: LATEX LOU-LUSTRE NO. 5800 SERIES AT 14 MILS DFT.

B. FOR ALL GYPSUM WALL BOARD SOFFITS, CEILINGS AND SOFFIT DROPS:
1. FIRST COAT: ULTRA-HIDE PVA PRIMER SEALER NO. 5019 AT 11 MILS DFT.
2. SECOND COAT: ULTRA-HIDE LATEX FLAT WALL PAINT NO. 5300 SERIES.
3. THIRD COAT: ULTRA-HIDE LATEX FLAT WALL PAINT NO. 5300 SERIES.

C. METAL:
1. FIRST COAT: SPRAY APPLIED GLID-GUARD ALL PURPOSE METAL PRIMER NO. 5229 AT 14 MILS DFT.
2. SECOND COAT: (EXPOSED SURFACES) SPRAY APPLIED GLID-GUARD ALKID INDUSTRIAL ENAMEL NO. 4550 SERIES AT 15 MILS DFT.

D. WOOD:
1. FIRST COAT: UNDERCOATER NO. 555 AT 14 MILS DFT.
2. SECOND COAT: GLID-GUARD ALKID INDUSTRIAL ENAMEL NO. 4550 SERIES AT 20 MILS DFT.

E. CONCRETE MASONRY UNIT (INTERIOR):
1. FIRST COAT: (UNPAINTED BLOCK ONLY) ACRYLIC BLOCK FILLER NO. 5311.
2. SECOND COAT: LATEX LOU-LUSTRE NO. 5800 SERIES AT 14 MILS DFT.

DIVISION 10- SPECIALTIES

10440 SIGNAGE

PROVIDE ALL SIGNAGE AS INDICATED.

10520 FIRE EXTINGUISHERS



CLUB PILATES
STREETS OF WEST PRYOR
940 NW PRYOR ROAD
SUITE - E
LEE'S SUMMIT, MO 64081

ROBERT QUINTANA
ARCHITECTS
14900 LANDMARK BLVD.
SUITE 530
DALLAS TEXAS 75254
(972) 233-2718

ROQA



POWER PLAN

DATE: 02/23/21
DRAWN BY: MC
CHECKED BY:
JOB NO. : 21-182

E-1

KEY NOTES

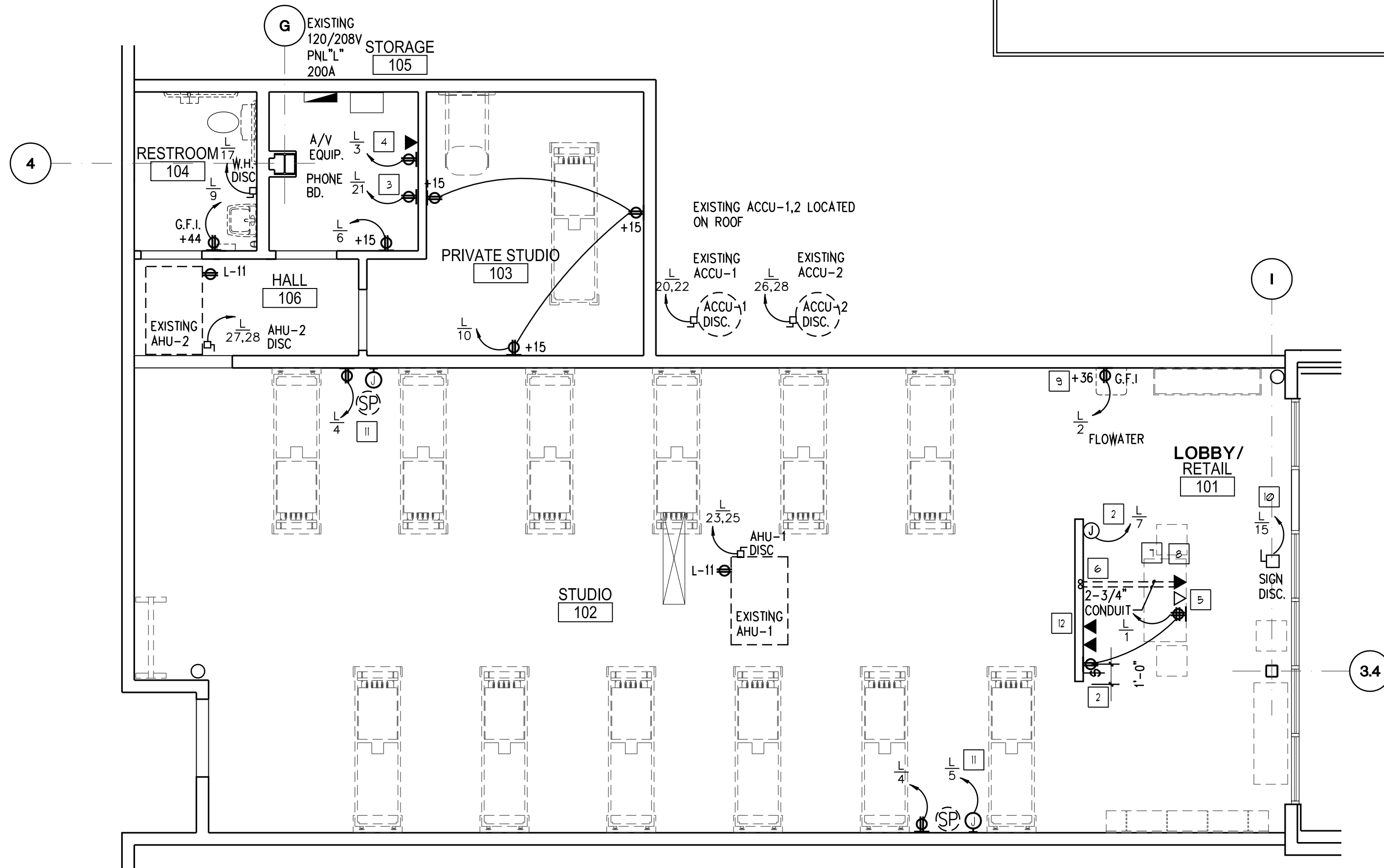
- 1 RECEPTACLE FOR SPEAKER VERIFY HEIGHT WITH TENANT A/V CONTRACTOR
- 2 J-BOX ABOVE CEILING FOR LED WALL SIGN. PULL WIRE DOWN TO SIGN POWER LOCATION. PROVIDE A LENGTH OUT OF WALL FOR SIGN DRIVER. PROVIDE WIRE TO SWITCH. COORDINATE SWITCH LOCATION PER TENANTS DIRECTION
- 3 4' X 8' X 3/4" THICK TELEPHONE PLYWD BACKBOARD "WTB" TREATED AND READY TO RECEIVE SERVICE
- 4 RECEPTACLE AND DATA FOR STEREO AND SPEAKERS COORDINATE EXACT LOCATION WITH TENANT
- 5 PROVIDE CONDUIT SUB-IN 1/4" ABV. CABINET BASE, TOWARD FRONT OF CABINET
1" C. FOR TELEPHONE W/ PULL STRING
1" C. FOR ELECTRICAL POWER
2" C. W/ (3) CAT-5 CABLES
- 6 G.C. TO PROVIDE CONDUIT IN WALL AND THROUGH DESK BASE AS NEAR TO THE FRONT PANEL AS POSSIBLE.
- 7 E.C. SHALL PROVIDE EXTRA LENGTH OF FLEXIBLE CONDUIT FOR ALL ELECTRICAL OUTLETS AT CASHWRAP.
- 8 PROVIDE 3/4" CONDUIT WITH PULL STRING FOR SPEAKERS AND STEREO. COORDINATE LOCATIONS WITH TENANT
- 9 PROVIDE 1/2" C. FOR HVAC CONTROLS TO T-STAT. BELOW.
- 10 SIGN DISCONNECT RUN CONNECTION THROUGH TIME CLOCK
- 11 J-BOX AND RECEPTACLE FOR BLUE LED LIGHT STRIPS AT THE TOP OF WOOD PANELS. E.C. SHALL CONNECT LED STRIP TO POWER. WIRES TO BE CONCEALED IN WALL. ELECTRICAL BOXES ABOVE CEILING.
- 12 CAT 5 CABLES FOR SECURITY BACK TO ELECTRICAL CLOSET WITH 5'-0" WHIP

SYMBOLS

- ⊕ DUPLEX RECEPTACLE
- ⊕ QUAD RECEPTACLE
- ◀ DATA
- ◀ TELEPHONE
- ⏏ DISCONNECT SWITCH
- Ⓜ JUNCTION BOX
- SP SPEAKER
- SD SMOKE DETECTOR
- SD SMOKE DETECTOR

GENERAL NOTES

1. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBERS AND HOME RUNS. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS, BOXES, MISC. FITTINGS, ETC. FOR A COMPLETE OPERABLE SYSTEM.
2. ALL HOMERUNS ON THIS DRAWING ARE TO BE CONNECTED TO PANELS "H" OR "L" AS INDICATED.
3. BRANCH CIRCUIT INSTALLATION SHALL COMPLY SPEC., NEC AND ALL APPLICABLE CODES.
4. RUN ALL ELECTRICAL WIRING CONCEALED IN WALLS, FLOOR, CEILING OR COUNTERS.
5. G.C. IS RESPONSIBLE FOR COORDINATION OF POWER AND TELEPHONE SERVICE WITH LOCAL UTILITIES.
6. E.C. SHALL BE PROVIDE AND INSTALL ALL JUNCTION BOXES AND PULLS REQUIRED FOR THE INSTALLATION OF ELECTRICAL DEVICES AND EQUIPMENT WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS. SIZING OF BOXES SHALL BE PER NEC.
7. ALL WIRING SHALL BE IN CONDUIT, E.M.T. OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS FROM OUTLET BOXES TO LIGHT FIXTURES, MOTORS, APPLIANCES, ETC. AT MAXIMUM LENGTH OF 6'-0". NO "BX", ROMEX OR ARMORED CABLE, ETC. SHALL BE ALLOWED.
8. E.C. SHALL REUSE EXISTING FEEDER THAT SERVES THE PREVIOUS TENANT SPACE WHERE FEASIBLE. IF FEASIBLE, EXTEND FEEDER TO NEW PANEL "L" LOCATION AS SHOWN. PROVIDE NEW PANELS IF SHOWN ON SHEET E-3 SINGLE LINE DIAGRAM. VERIFY SIZE OF FEEDER AND NOTIFY ARCHITECT.
9. IT IS THE E.C.'S RESPONSIBILITY TO PROPERLY BALANCE AND BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM REGARDLESS OF CIRCUITING INDICATED.
10. PROVIDE PROTECTION FROM PHYSICAL DAMAGE FOR SWITCH BOARDS, PANEL BOARDS, AND OTHER ELECTRICAL EQUIPMENT.
11. BOTTOM OF CONVENIENCE RECEPTACLES SHALL NOT BE LESS THAN 15" ABOVE F.F.
12. PROVIDE AND MAINTAIN REQUIRED WORKSPACE, ADEQUATE ILLUMINATION, ACCESS TO WORK SPACE, AND HEAD ROOM ABOVE.
13. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN A SPACE EXTENDING FROM THE FLOOR TO A HEIGHT OF 6'-0" ABOVE THE EQUIPMENT.
14. PROVIDE AND INSTALL ACCESS PANEL AT CONCEALED LED DRIVER PULL BOXES.
15. ALL CIRCUITING UNLESS OTHERWISE NOTED IS TO PANEL "H" AND "L" UNLESS OTHERWISE NOTED. NUMBERS INDICATE CIRCUITS AND LETTERS INDICATE SWITCHING.
16. ALL WIRING SHALL BE COPPER AND IN CONDUIT, INCLUDING LOW VOLTAGE.



POWER & SIGNAL PLAN

3/16" = 1'-0"



CLUB PILATES
STREETS OF WEST PRYOR
940 NW PRYOR ROAD
SUITE - E
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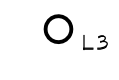





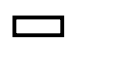


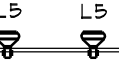
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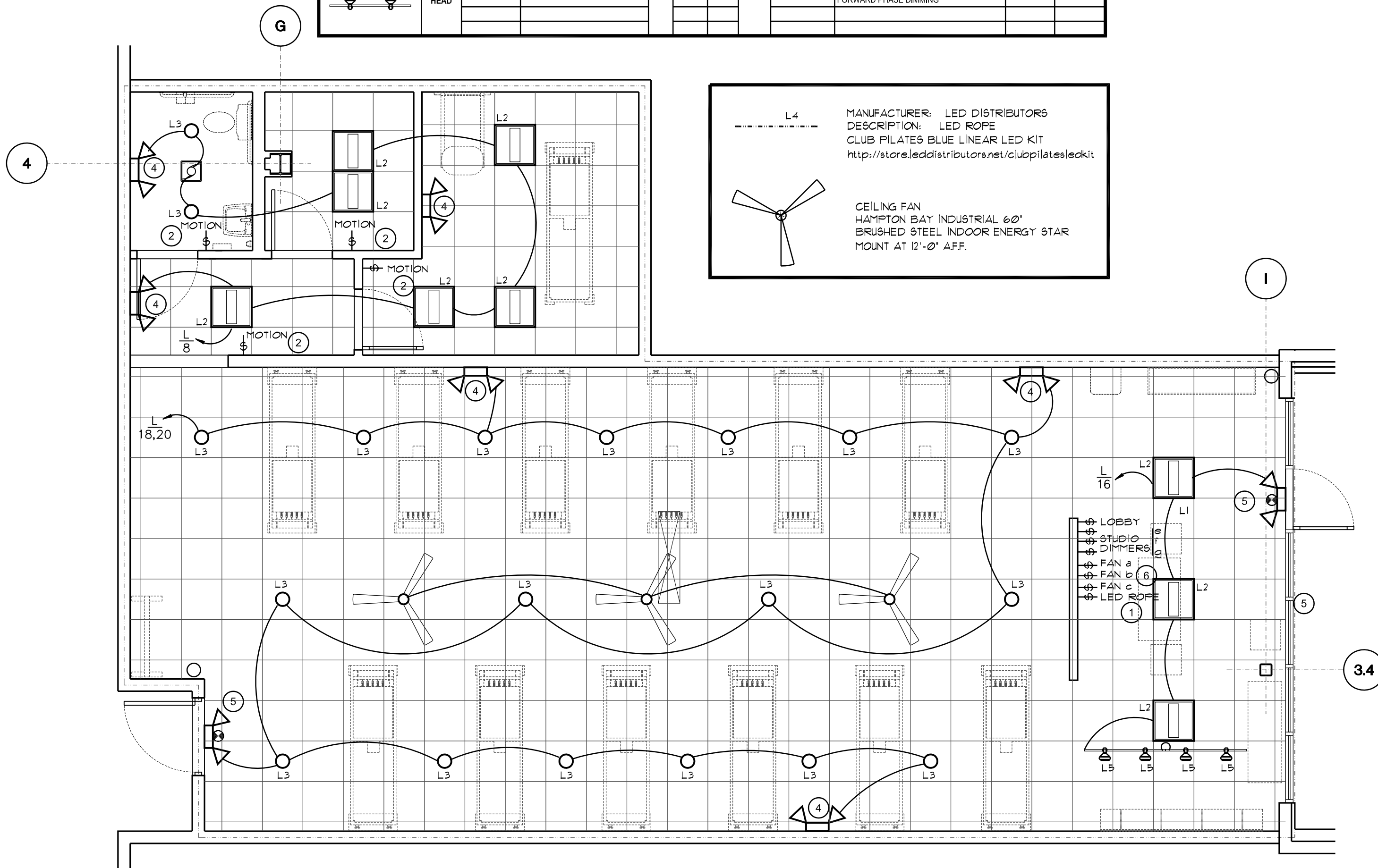
LIGHTING PLAN

DATE: 02/23/21
DRAWN BY: MC
CHECKED BY:
JOB NO. : 21-182

E-2

LIGHTING SCHEDULE										
SYMBOL	TYPE	BRAND	CATALOG NO.	LAMPS		FIXT		MOUNT	REMARKS	
				NO.	TYPE	VOLT	WATT			
 L1	Pendant	NORA	NRLMCD-16C25-20-GMW-LE4	1	LED	120-	31	PENDANT	16 INCH DIAMETER LED PENDANT 2500 LUMEN	
			(optional in place of 2x4 at lobby)			277				
 L3	6 inch downlitt	SIGNIFY LIGHTTOLIER	6RN/26RDL25835WOC0Z10U	1	LED	UNV	25	RECESSED	ROUND 6 INCH LED DOWNLIGHT 0-10V ONE PERCENT DIMMING DRIVER 2500 LUMEN	
 L3 EM	6 inch downlitt EM	SIGNIFY LIGHTTOLIER	6RNEM/26RDL25835WOC0Z10U	1	LED	UNV	25	RECESSED	ROUND 6 INCH LED DOWNLIGHT 0-10V ONE PERCENT DIMMING DRIVER 2500 LUMEN	
 L2	4 ft strip	SIGNIFY DAYBRITE	FS5E2440L835-UNV	1	LED	UNV	32	SUSPENDED	EM BATTERY PACK AND TEST SWITCH LINEAR LED STRIP FIXTURE 4000 LUMEN 3500K 4 FEET LONG; SUSPEND WITH CHAIN HANGERS	
 L2	2x2	SATCO	65CD-571	1	LED	100-	40	RECESSED	2X2 LED RECESSED BACKLIT FLAT PANEL	
						277				
 L2	2x4	SATCO	65CD-571	1	LED	100-	40	RECESSED	2X2 LED RECESSED BACKLIT FLAT PANEL	
						277				
 EM		EXTRONIX	LED90G2	2	LED	120V	2.2	WALL	2 HEAD LED EMERGENCY FIXTURE WITH REMOTE CAPABILITY, 90 MINUTE BATTERY BACK-UP, WHITE HOUSING 1.1 WATT PER HEAD	
						277				
 EMW		EXTRONIX	TRL-ACEM-WH	1	LED	120V	11	WALL	OUTDOOR EM FIXTURE, 1080 LUMEN OUTPUT IN AC MODE; 260 LUMEN OUTPUT IN EM MODE	
						277				
 EX		EXTRONIX	ILX-G-EM-WH	1	LED	120V	11	WALL	WHITE EXIT SIGN GREEN LETTERS THERMOPLASTIC UNIVERSAL STYLE MOUNT WITH 90 MINUTE EM BATTERY BACK UP	
						277				
 TRACK		CONTECH	LT-6-PLA-23-R-P	NA		120	NA	SUSPEND	LINEAR 6 FOOT TRACK LENGTH IN WHITE WITH CURRENT LIMITER END- SINGLE CIRCUIT	
 L5 L5	TRACH HEAD	CONTECH	CTLCD-8051-CD-M-30C-D-P	1	LED	120	9	TRACK	LED WHITE TRACK FIXTURE 1021 LUMENS 90CRI 3000K 23 DEGREE OPTIC FORWARD PHASE DIMMING	

KEYED NOTES	
1	ALL SWITCHES TO BE WHITE LEVITON DECORA ROCKER TYPE LIGHT SWITCHES.
2	WHITE WATTSTOPPER PW-100 OR EQUAL, WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR SWITCH.
3	RESTROOM EXHAUST FAN SHALL BE SWITCHED WITH RESTROOM LIGHTS FOR SIMULTANEOUS OPERATION.
4	EMERGENCY/NIGHT LIGHTS TO WIRED AHEAD OF LOCAL SWITCHING.
5	EXIT LIGHTS TO WIRED AHEAD OF LOCAL SWITCHING.
6	RHEOSTAT SWITCH EA. FAN INDEPENDANTLY



1 LIGHTING PLAN
3/16" = 1'-0"

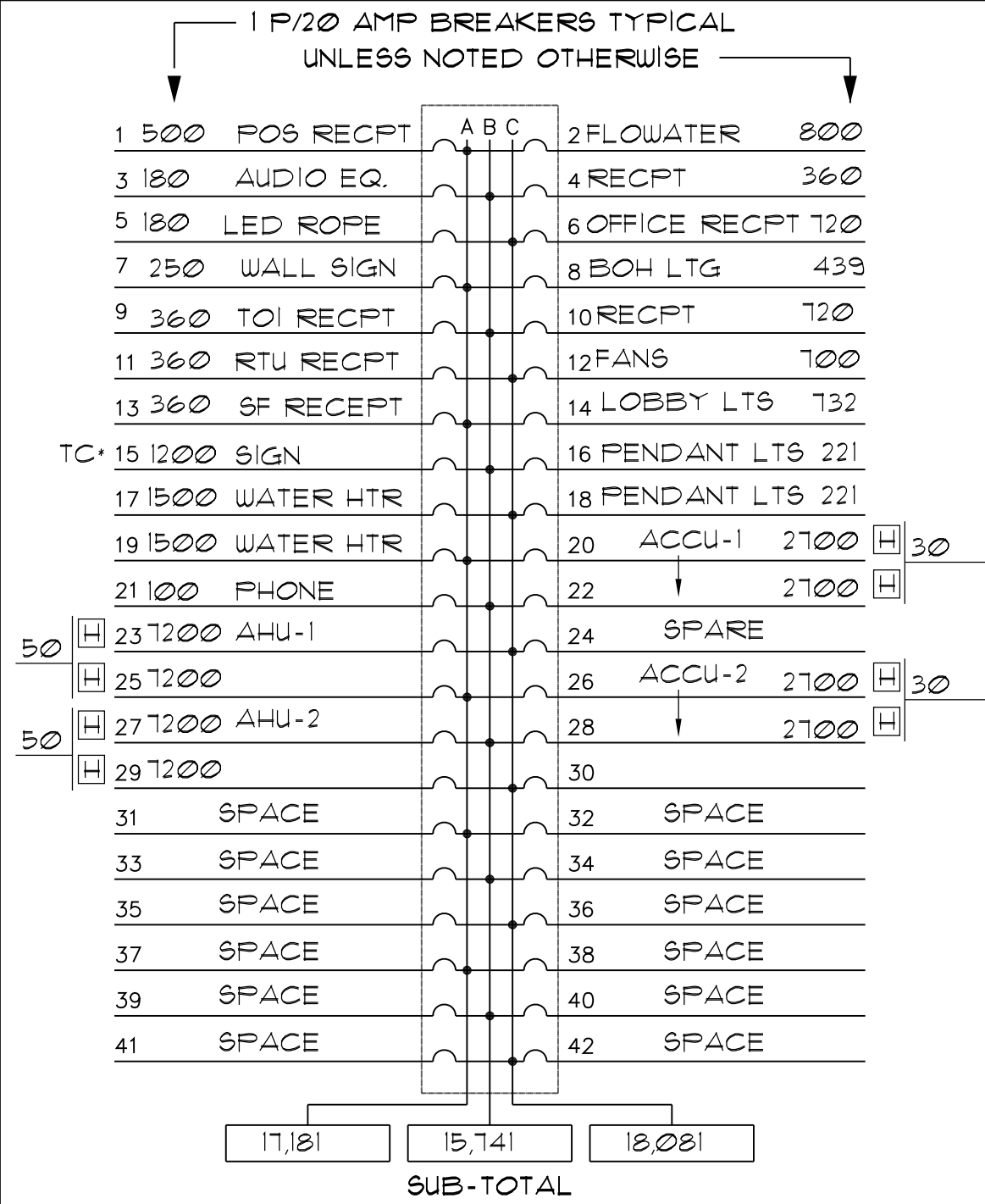
RESPONSIBILITY NOTES

1. ALL CUTTING OF ROOF OPENINGS, SUPPORT FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, REPAIR TO ROOF, ETC., ASSOCIATED WITH THE HVAC SUB-CONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT WITH THE HVAC SUB-CONTRACTOR. SUB-CONTRACTOR SHALL EMPLOY THE LL'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.
2. ALL CUTTING OF ROOF OPENINGS, SUPPORT FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, REPAIR TO ROOF, ETC., ASSOCIATED WITH THE PLUMBING SUB-CONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT WITH THE PLUMBING SUB-CONTRACTOR. SUB-CONTRACTOR SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.
3. THE CONDUITS REQUIRED FOR THE MECHANICAL CONTROLS SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL WIRING FOR THE MECHANICAL CONTROLS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
4. SANITARY SEWER AND DOMESTIC WATER SHALL BE STUBBED INTO OR NEAR THE THE PREMISES BY THE LANDLORD. SEE MECHANICAL SHEETS FOR LOCATION OF STUB-INS.
5. THE SPRINKLER CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE TENANT'S LANDLORD AND TO THE APPROPRIATE RATING BUREAU FOR THEIR APPROVAL. A COPY OF THE APPROVAL LETTER FROM THE RATING BUREAU SHALL BE FORWARDED TO THE TENANT'S LANDLORD.
- THE TENANT'S GENERAL CONTRACTOR SHALL RUN ALL CONDUIT FOR ELECTRICAL FLOOR OUTLETS, TELEPHONE OUTLETS, AND LINES REQUIRED FOR PLUMBING ROUGH-IN TIGHT AGAINST THE UNDERSIDE OF THE FLOOR SLAB. THE FLOOR STRUCTURAL SLAB SHALL BE CORED AS REQUIRED TO INSTALL THESE ITEMS AT THE LOCATIONS SHOWN ON THE PLANS.
7. THE HVAC SUB-CONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED HVAC EQUIPMENT AND APPARATUS WITH 6' HIGH PAINTED STENCILED STORE NAME ON ALL SIDES OF EQUIPMENT.
8. THE LL'S DESIGNATED CONTRACTOR SHALL MODIFY EXSITING SPRINKLER LOCATIONS AND ADD ADDITIONAL HEAD WHERE REQUIRED TO CONFORM WITH NEW FLOOR PLAN AND CEILING DESIGN LAYOUT AS REQUIRED BY LOCAL CODES.

SYMBOL DESCRIPTION

	HOME RUN TO PANEL - CIRCUIT AS INDICATED
	CONDUIT CONCEALED IN FLOOR
	PORCELAIN RECEPTACLE - KEYLESS - 100 WATT
	JUNCTION BOX - SIZE AND TYPE AS REQUIRED - FLOOR TO HEIGHT AS INDICATED
	WALL SWITCH, SPST, COLOR PER SPECS, SIERRA
	FLOOR RECEPTACLE - FLUSH IN FINISH FLOOR, STL CITY - REFERENCE SHEET E1, NOTE # 10.
	DUPLEX CONVENIENCE RECEPTACLE - GROUNDED, 15A, 125V, 3P, 3W, COLOR PER SPECS, FLOOR TO HEIGHT AS INDICATED, SIERRA 1802
	TELEPHONE OUTLET - FLOOR, STEEL CITY - NO. 602 AL CAST BOX, NO. P602 AL COVER, NO. P60 CP AL CARPET FLANGE, AND NO. 100 AL BELL NOZZEL
	SERVICE BUZZER - EDWARDS 24V NO. 115-165 W/ NO. 532 SIGNAL TRANSFORMER
	PUSHBUTTON - EDWARDS NO. 620, WEATHERPROOF W/ STAINLESS STEEL COVER, NO. 141 ENGRAVED 'SERVICE BELL' MOUNTED 54" ABOVE FINISHED FLOOR
	TELEPHONE OUTLET - WALL, OUTLET BOX W/ ARROW-HART 3144-22 SUB-FRAME, ONE HOLE BUSHED COVER
	MOTOR - H.P. AS INDICATED
	SPEAKER
	DUCT DETECTOR WITH FAN SHUT DOWN

PANEL CIRCUIT LOADING



EXISTING PANEL L 10,000 AIC BRKR

TOTAL WATTS 51,003w X 125 = 63,754w

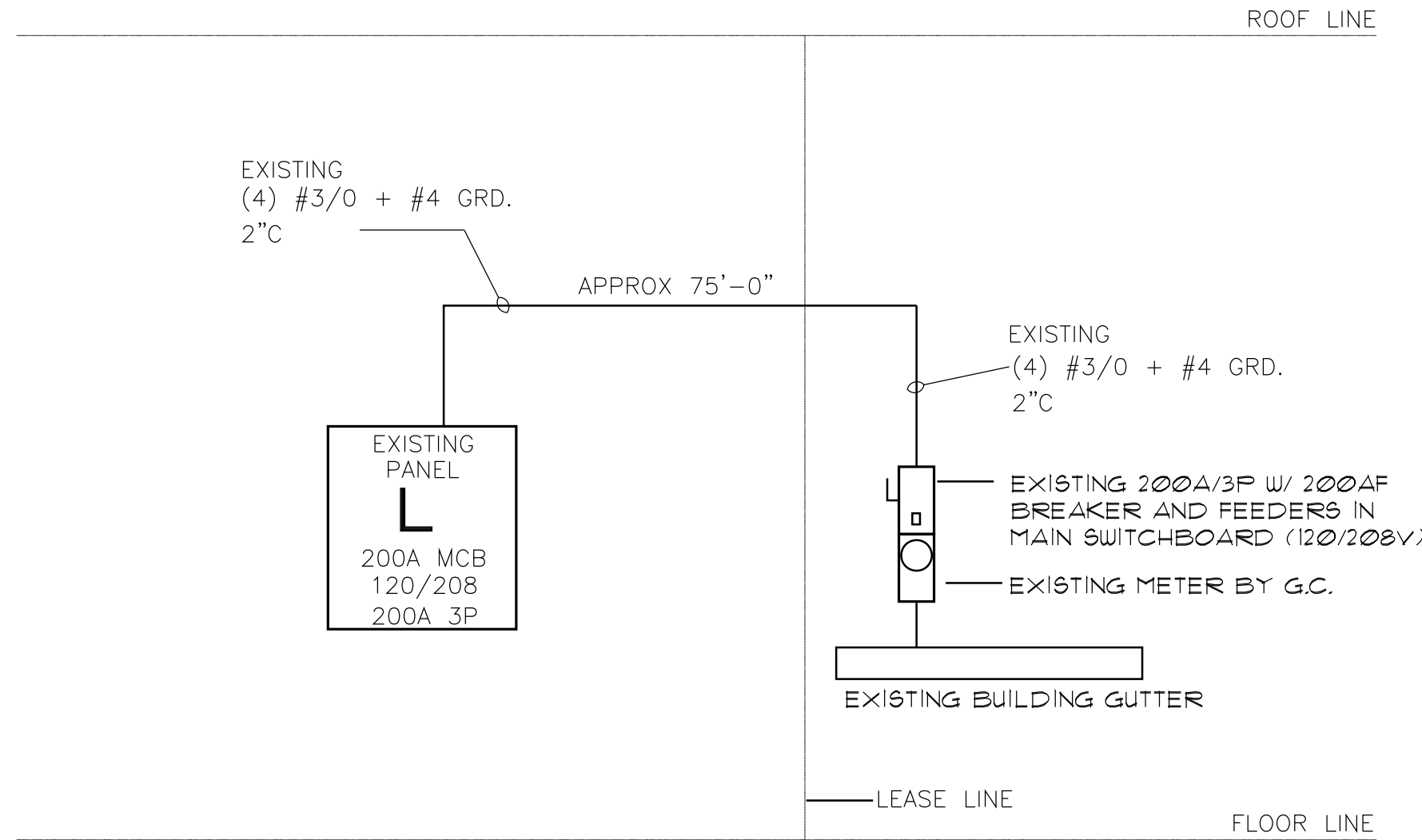
171 AMPS AT 120/208 VOLTS 3 PHASE 4 WIRE

MAINS 200A MCB MOUNTING SURFACE

TYPE NLAB SOLID BUSS

- PROVIDE SWITCH RATED BREAKERS
- 24 HOUR CIRCUIT (PROVIDE LOCK-ON DEVICES)
- TC - 24 HR TIME CLOCK CONTROLLED
- H - HACR BREAKERS

NOTE: IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH ALL ELECTRICAL EQUIPMENT AND FIXTURES AND TO INSTALL WIRING AND FUSES PER MANUFACTURER'S DIRECTIONS



1 ELECTRICAL RISER DIAGRAM
NO SCALE

NOTE: E.C. SHALL FIELD VERIFY ALL EXISTING ELECTRICAL EQUIPMENT. ALSO FIELD VERIFY THAT ANY EXISTING ELEC. EQUIPMENT TO BE REUSED IS OF ADEQUATE SIZE AND CONDITION TO MAINTAIN SAFE OPERATION. IF DISCREPANCIES ARISE CONTACT PROJECT REP.

REVISIONS:



CLUB PILATES
STREETS OF WEST PRYOR
940 NW PRYOR ROAD
SUITE - E
LEE'S SUMMIT, MO 64081

ROBERT QUINTANA
ARCHITECTS
14900 LANDMARK BLVD.
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(972) 233-2718

TRQA



SCHEDULES

DATE: 02/23/21
DRAWN BY: MC
CHECKED BY:
JOB NO. : 21-182

E-3

DIVISION 16 - ELECTRICAL SPECIFICATIONS
SECTION 16100
ELECTRICAL SPECIAL CONDITIONS

GENERAL

- A. APPLICABLE PROVISIONS OF AIA DOCUMENT A301, 'GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION', AND DIVISION 1 GENERAL CONDITIONS GOVERN WORK UNDER THIS SECTION AND ALL OTHER SECTIONS OF DIVISION 16.
- B. APPLICABLE PROVISIONS OF THIS SECTION GOVERN WORK UNDER ALL OTHER SECTIONS OF DIVISION 16. WORK COVERED BY THIS SECTION SHALL CONSIST OF PROVIDING ALL MATERIAL, LABOR, EQUIPMENT AND SERVICES NECESSARY FOR A COMPLETE, TESTED AND ADJUSTABLE ELECTRICAL INSTALLATION READY FOR OPERATION AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.
- C. THE TERM CONTRACTOR AS USED IN THIS SECTION SHALL MEAN ANY CONTRACTOR OR SUBCONTRACTOR WHO HAS CONTRACTED TO PERFORM WORK INCLUDED IN AND DEFINED BY THIS SECTION AND ALL OTHER SECTIONS OF DIVISION 16.

CONTRACTOR'S RESPONSIBILITY

- A. PRIOR TO SUBMITTING HIS BID, CONTRACTOR SHALL CAREFULLY EXAMINE THESE CONSTRUCTION DOCUMENTS, THE DEVELOPER'S EXHIBITS, AND THE SITE, TO INQUIRE FULLY INTO DIFFICULTIES AND COSTS OF WORK, AND TO DETERMINE THE SCOPE AND CHARACTER OF WORK TO BE DONE. CONTRACTOR SHALL INCLUDE ALL NECESSARY COSTS TO LOCATE AND/OR EXTEND ALL UTILITIES INCLUDING LIGHTING PANELS, POWER PANELS, ELECTRICAL SERVICE, PHONE SERVICE AND/OR MODIFY EQUIPMENT TO MEET THE INTENT OF THE CONTRACT DOCUMENTS, THE OWNER, OWNER'S AGENT, ARCHITECT, ENGINEER OR DESIGNER SHALL NOT BE RESPONSIBLE FOR FAILURE OF THE CONTRACTOR TO DETERMINE DIFFICULTIES AND COSTS IN THE PROJECT OR FOR HIS OVERLOOKING OF THE REQUIREMENTS.
- B. IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THE PLANS AND SPECIFICATIONS, OR IF THERE ARE ANY REQUIREMENTS WHICH ARE AMBIGUOUS IN THE CONTRACTOR'S OPINION, HE SHOULD CALL THIS TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATIONS OF THE ARCHITECT AND ENGINEER.

- C. CONTRACTOR SHALL SCHEDULE HIS WORK IN COOPERATION WITH OTHER TRADES INSTALLING INTERRELATED WORK. ALL WORK SHALL BE SCHEDULED TO MAINTAIN SERVICE TO ALL REQUIRED AREAS DURING THE COURSE OF THE CONSTRUCTION EXCEPT FOR SHORT TERM PLANNED SHUTDOWNS, ANY OF WHICH SHALL BE PRE-SCHEDULED WITH THE OWNER'S AGENT AND THE LANDLORD.

WORKMANSHIP AND GUARANTEE

- A. IN ENTERING INTO A CONTRACT COVERING THIS WORK, THE CONTRACTOR ACCEPTS THE SPECIFICATIONS, AND GUARANTEES THAT THE WORK WILL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR FURTHER GUARANTEES THAT THE WORKMANSHIP AND MATERIAL WILL BE OF THE BEST PROCURABLE AND THAT NONE BUT EXPERIENCED WORKMEN EXPERIENCED IN EACH PARTICULAR CLASS OF WORK WILL BE EMPLOYED. CONTRACTOR FURTHER GUARANTEES TO REPLACE AND MAKE GOOD AT HIS OWN EXPENSE ANY DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL WHICH MAY DEVELOP WITHIN ONE (1) YEAR AFTER FINAL PAYMENT AND ACCEPTANCE BY THE ARCHITECT.

CODES AND STANDARDS

- A. CONTRACTOR WILL COMPLY IN ALL RESPECTS WITH THE ADOPTED BUILDING CODES, APPLICABLE LAWS, ORDINANCES, AND REGULATIONS AS MAY APPLY ACCORDING TO THE RULING OF THE CONTROLLING PUBLIC OFFICIAL. SINCE THE CONTRACTOR SHALL PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE LAWS, ORDINANCES AND REGULATIONS, OR WHICH DOES NOT RECEIVE THE APPROVAL OF THE CONTROLLING PUBLIC OFFICIAL, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORY LABEL.

FEES ON PERMITS

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAKING PAYMENT FOR ALL FEES, PERMITS AND INSPECTIONS RELATING TO HIS WORK.

CONTRACT DRAWINGS

- A. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND INTENT OF DESIGN AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS AND THE WORK OF OTHER TRADES WILL PERMIT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED; NOR IS IT IMPLIED THAT ALL CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE SYSTEMS OR BUILDING COMPONENTS HAVE BEEN INDICATED. THE CONTRACTOR SHALL INVESTIGATE ALL EXISTING CONDITIONS AFFECTING THE WORK AND ARRANGE HIS WORK ACCORDINGLY, PROVIDING SUCH FITTINGS, OFFSETS, ACCESSORIES AND DEVICES AS MAY BE REQUIRED. THE DRAWINGS AND SPECIFICATIONS ARE MUTUALLY COMPLEMENTARY, AND ANY WORK REQUIRED BY ONE BUT NOT BY THE OTHER SHALL BE PERFORMED BY BOTH. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS AND SERVICES REQUIRED FOR A COMPLETE AND WORKING PROJECT AT NO ADDITIONAL COST EVEN THOUGH EACH AND EVERY NECESSARY ELEMENT THEREOF IS NOT SPECIFICALLY IDENTIFIED HEREIN.
- B. CONTRACTOR SHALL NOT SCALE FROM THE DRAWINGS BUT SHALL FOLLOW THE ARCHITECTURAL DRAWINGS OR EXISTING BUILDING CONDITIONS WHERE APPLICABLE IN ESTABLISHING DIMENSIONS AND LINES OF RUN, SINCE DIMENSIONS ON THE FINAL ARCHITECTURAL DRAWINGS OR AT THE SITE MAY NOT COINCIDE WITH THOSE SHOWN ON THE ELECTRICAL DRAWINGS. THE CONTRACTORS SHALL VERIFY WITH THE DIMENSIONED ARCHITECTURAL DRAWINGS OR THE SITE CONDITIONS THE EXACT MATERIAL QUANTITIES AND LENGTHS NECESSARY.
- C. SIGNIFICANT DEVIATIONS OR CHANGES FROM THE DRAWINGS WHICH ARE REQUIRED TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS MUST BE REVIEWED WITH THE ARCHITECT AND APPROVED BEFORE PROCEEDING.

SHOP DRAWINGS

- A. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, FOUR (4) COPIES MINIMUM FOR ALL MANUFACTURED PRODUCTS. EACH SHOP DRAWING SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO ASSURE THAT ALL DIMENSIONS, QUANTITIES, CONNECTIONS, CAPACITIES AND ACCESSORIES SHOWN ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, AND SHALL BE MARKED OR STAMPED TO CONFIRM THAT SUCH REVIEW WAS MADE AND COMPLIANCE WAS CONFIRMED.
- B. APPROVAL OF SHOP DRAWINGS BY THE OWNER, OWNER'S AGENT, ARCHITECT, ENGINEER OR DESIGNER WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH ALL TERMS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PERFORMANCE OF ALL EQUIPMENT PURCHASED FOR PROPER FIT, AND OTHER DIMENSIONAL REQUIREMENTS.

RECORD DRAWINGS

- A. CONTRACTOR SHALL MAINTAIN AT THE JOB SITE ONE SET OF DOCUMENTS AS 'RECORD DRAWINGS' FOR THE PURPOSE OF DAILY MARKING OF ALL SUBSTANTIAL REVISIONS TO THE DOCUMENTS INCLUDING BUT NOT LIMITED TO ELECTRICAL CHANGES, AND LOCATIONS OF UTILITIES, PANEL BOARDS, DISCONNECTS, STARTERS AND OTHER DEVICES REQUIRING PERIODIC OPERATIONAL ATTENTION, ADJUSTMENT, OR SERVICE INCLUDING ACCESS THERETO. AT THE COMPLETION OF THE PROJECT, THIS SET SHALL BE RETURNED TO THE ARCHITECT FOR THE PURPOSE OF MAKING FINAL 'AS-BUILT' DRAWINGS.

EQUIPMENT SUBSTITUTION

- A. SPECIFIC MANUFACTURERS AND MODELS OF EQUIPMENT HAVE BEEN USED IN THE DEVELOPMENT OF THE DRAWINGS AND DESIGNS. THIS CONTRACTOR MUST SUBMIT TO THE OWNER ANY CHANGES AND/OR SUBSTITUTIONS FOR APPROVAL PRIOR TO INSTALLATION OR EXECUTION. ANY CHANGES WHICH DO NOT RECEIVE THE OWNER'S APPROVAL MAY BE SUBJECT TO REMOVAL OR REPLACEMENT AS ORIGINALLY SPECIFIED, AND WILL BE AT THE CONTRACTOR'S EXPENSE.
- B. IF THIS CONTRACTOR SUBSTITUTES FOR SPECIFIED EQUIPMENT ANY OTHER EQUIPMENT WHICH REQUIRES ANY CHANGES TO THE DESIGN, ALL COST OF REDESIGN AND RECONFIGURATION RESULTING FROM SAID SUBSTITUTION SHALL BE BORNE BY THE SUBMITTING CONTRACTOR.

EQUIPMENT INSTALLATION AND SUPPORT

- A. CONTRACTOR SHALL SUPPORT PLUMB, RIGID AND TRUE-TO-LINE ALL WORK AND EQUIPMENT INSTALLED. THIS CONTRACTOR SHALL DETERMINE HOW EQUIPMENT, FIXTURES, ETC., ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED, AND SHALL PROVIDE ACCESSORIES REQUIRED FOR PROPER SUPPORT WHETHER SHOWN ON THE DRAWINGS OR NOT. IF SUPPORTS ARE REQUIRED, CONTRACTOR SHALL SUBMIT DRAWINGS TO THE ARCHITECT FOR APPROVAL.
- B. PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTALLATION AND MAINTENANCE LITERATURE. COMPONENTS REQUIRING PERIODIC MAINTENANCE OR ADJUSTMENTS SHALL BE LOCATED OR INSTALLED AS TO PERMIT ACCESS WITHOUT DAMAGE TO STRUCTURE, FINISHES OR OTHER EQUIPMENT.
- C. ALL CONDUIT CONNECTING TO SWITCHGEAR, PANELS, MOTORS, AND OTHER EQUIPMENT SHALL BE INSTALLED WITHOUT STRAIN AT THE CONNECTIONS. THE CONTRACTOR MAY BE REQUIRED, AS DIRECTED, TO DISCONNECT CONDUITS TO DEMONSTRATE THAT THEY HAVE BEEN SO CONNECTED.

DEMOLITION

- A. ALL EXISTING EQUIPMENT, NOT INDICATED TO BE INCORPORATED INTO THE NEW SYSTEM SHALL BE DISCONNECTED BY THIS CONTRACTOR FOR REMOVAL BY OTHERS FROM THE JOBSITE. CARE SHALL BE USED SO THAT NO DAMAGE IS DONE TO EXISTING BUILDING, PIPING, DUCTWORK, AND/OR ELECTRICAL EQUIPMENT. ANY DAMAGE ATTRIBUTED TO THIS CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR.

CUTTING AND PATCHING

- A. ALL CUTTING THAT MAY BE NECESSARY FOR THE INSTALLATION OF THE WORK OR ANY REQUIRED PATCHING THAT RESULTS THEREFROM SHALL BE DONE BY THE PROPER TRADE INVOLVED AND SHALL BE INCLUDED AS PART OF THIS CONTRACT. PATCH TO DUPLICATE UNDISTURBED ADJACENT FINISHES, COLORS, TEXTURES AND PROFILES. COLUMNS, BEAMS, GIRDERS OR JOISTS SHALL NOT BE CUT.

- B. ALL WORK AFFECTING ROOF OR STRUCTURES SHALL BE PERFORMED BY LANDLORD'S CONTRACTOR AT TENANT'S EXPENSE.

CLEANING

- A. COMPLETION AS IT PERTAINS TO THE CONTRACT COMPLETION DATE IS DEFINED AS THE DAY THE PROJECT IS TURNED OVER TO THE OWNER IN THOROUGHLY CLEAN CONDITION, READY FOR THE OWNER TO TAKE POSSESSION. ALL FIXTURES, MOTORS, EQUIPMENT AND ALL OTHER ELECTRICAL EQUIPMENT FURNISHED OR INSTALLED BY THE CONTRACTOR SHALL BE THOROUGHLY CLEANED.

TESTS

- A. PROVIDE THE TESTS AS OUTLINED HEREINAFTER AND OTHER TESTS NECESSARY TO ESTABLISH THE ADEQUACY, QUALITY, SAFETY, COMPLETED STATUS AND SUITABLE OPERATION OF EACH SYSTEM. CORRECT PROMPTLY ANY FAILURE OR DEFECTS REVEALED BY THESE TESTS AND RECONDUCT TEST ON THE CORRECTED ITEMS.
- B. TEST THE GROUNDS WITH A GROUND RESISTANCE DIRECT READING SINGLE-TEST MEGGER.
- C. INSULATION RESISTANCE BETWEEN PHASE CONDUCTORS AND GROUND NOT LESS THAN 1000000 OHMS.
- D. THE PANELBOARDS SHALL HAVE PHASE CURRENTS BALANCED TO WITHIN +/- 10% VARIATION BETWEEN AVERAGE PHASE CURRENT AND MEASURED INDIVIDUAL PHASE.
- E. AN OPERATIONAL TEST OF THE EMERGENCY LIGHTS AND THE EXIT LIGHTS SHALL BE PERFORMED FOR THE OWNER TO DEMONSTRATE CONFORMANCE TO THE SPECIFICATIONS.

TEMPORARY ELECTRICAL SERVICE

- A. TEMPORARY ELECTRICAL SERVICE SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. TEMPORARY LIGHTING SHALL BE PROVIDED BY A LAMP LOCATED FOR EVERY 625 SQUARE FEET OF BUILDING AREA WITH A MINIMUM OF ONE PER ROOM. THE LAMP TO BE 100 WATT AND SHALL BE MAINTAINED BY THE GENERAL CONTRACTOR.
- B. TEMPORARY POWER DISTRIBUTION SHALL BE SUFFICIENT TO ACCOMMODATE THE TEMPORARY LIGHTING AND CONSTRUCTION OPERATIONS, INCLUDING THE USE OF POWER TOOLS (BUT NOT INCLUDING HEAVY-DUTY ELECTRICAL WELDING UNITS), ELECTRICAL HEATING UNITS, AND STARTUP OF SPECIFIED BUILDING EQUIPMENT, WHICH IS TO BE TESTED, STARTED OR PLACED INTO OUR USE PRIOR TO COMPLETION OF ITS PERMANENT POWER CONNECTIONS.

EXCAVATION AND BACKFILL

- A. CONTRACTOR SHALL DO ALL EXCAVATION REQUIRED AS SHOWN ON PLANS OR REQUIRED FOR PROPER OPERATION. EXCESS EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH EARTH AND THOROUGHLY TAMPED. UTILITY SERVICES SHALL BE INSPECTED AND APPROVED BY THE PROPER INSPECTION AUTHORITY BEFORE BACKFILLING.

SECTION 16200
ELECTRICAL POWER 4 LIGHTING

RELATED DOCUMENTS

- A. APPLICABLE PROVISIONS OF AIA DOCUMENT A301, 'GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION', DIVISION 1 GENERAL CONDITIONS AND SECTION 16100 ELECTRICAL SPECIAL CONDITIONS GOVERN WORK UNDER THIS SECTION.
- B. REFER TO SECTION 16100 ELECTRICAL SPECIAL CONDITIONS REGARDING REGULATIONS AND REQUIREMENTS AFFECTING ALL WORK DESCRIBED IN THIS SECTION.

POWER SERVICE

- A. POWER SERVICE FOR THIS PROJECT SHALL BE PROVIDED FROM THE EXISTING MALL DISTRIBUTION SYSTEM. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MALL MANAGEMENT TO INSURE THAT ALL WORK AND MATERIALS ARE IN CONFORMANCE WITH THE LANDLORD'S REQUIREMENTS.

NAMEPLATES

- A. ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANEL BOARDS, DISCONNECTS, TRANSFORMERS, CONTROLS, ETC., SHALL BE IDENTIFIED WITH THREE PLY LAMINATED PLASTIC. THE OUTSIDE LAMINATIONS SHALL BE BLACK, ENGRAVING SHALL EXTEND THROUGH THE FRONT LAMINATION SO THAT THE BLACK LETTERS APPEAR ON A WHITE BACKGROUND. NAMEPLATES SHALL BE PERMANENTLY ATTACHED WITH SCREWS.
- B. CIRCUIT DIRECTORY SHALL BE TYPEWRITTEN (HANDWRITTEN IS NOT ACCEPTABLE) AND SHALL IDENTIFY CIRCUIT AS TO TYPE AND LOCATION AS FOLLOWS:
'LIG' - FOR LIGHTING CIRCUIT FOLLOWED BY AREA IN WHICH CIRCUIT APPEARS, I.E. 'STOCKROOM', 'CASH WRAP', ETC.
'RECEPT' - FOR RECEPTACLE CIRCUIT FOLLOWED BY AREA IN WHICH RECEPTACLE APPEARS, I.E. 'STOREFRONT', 'CASH REGISTER', ETC.
'MOTOR' - FOR MOTOR FOLLOWED BY THE EQUIPMENT IDENTIFICATION AND AREA IN WHICH MOTOR IS LOCATED, I.E. 'EXH FAN TOILET', 'AHU-ROOF', ETC.

CONDUIT

- A. ALL WIRING SHALL BE RUN IN CONDUIT. THIN WALL EMT CONDUIT SHALL BE USED SIZES 1/2" THROUGH 1-1/2". CONDUITS LARGER THAN 2-1/2" SHALL BE HEAVY WALL. CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SLABS SHALL BE PVC JACKETED FLEXIBLE STEEL CONDUIT (SEALTITE) SHALL BE USED IN UET AREAS AND ON ALL MOTORIZED EQUIPMENT. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS AT A MAXIMUM LENGTH OF 6 FEET. NO BX, RMX, ARMORED CABLE, ETC., SHALL BE ALLOWED.
- B. ALL OPENINGS IN FIRE AND SMOKE WALLS, PARTITIONS, FLOORS AND OTHER SIMILAR PENETRATIONS FOR ELECTRICAL CONDUITS, CABLE OR EQUIPMENT, WHETHER CUT OR IN PLACE, SHALL BE CLOSED WITH A UL APPROVED FIRE RESISTANT SILICONE FOAM SEALANT TO MAINTAIN THE FULL RATING AND INTEGRITY OF THE PARTITIONS, WALLS OR FLOOR.
- C. CONDUIT BENDS FOR POWER AND LIGHTING CIRCUITS SHALL NOT BE LESS THAN STANDARD RADIUS BENDS. CONDUIT BENDS FOR FEEDERS, TELEPHONE AND COMMUNICATION CIRCUITS SHALL NOT BE LESS THAN LONG RADIUS BENDS.
- D. O-Z TYPE DX, TX, OR AX CONDUIT EXPANSION DEFLECTION FITTINGS ARE REQUIRED IN ALL CONDUIT RUNS WHERE MOVEMENT MAY BE ENCOUNTERED. ALL EMT COUPLINGS SHALL BE COMPRESSION TYPE.
- E. EXPOSED CONDUIT SHALL BE SECURELY SUPPORTED IN PLACE PER CODE BUT ON A MAXIMUM OF 10 FOOT INTERVALS. WITHIN 3 FEET OF EACH BEND, AT EVERY OUTLET OR JUNCTION BOX AND AT THE END OF EACH SPAN, CONDUIT SHALL BE TERMINATING AT A BOX OR CABINET. CONDUIT SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPE WORK. CONDUITS SHALL BE RUN PARALLEL TO AND AT RIGHT ANGLES TO THE BUILDING LINES. GENERALLY, CONDUIT SHALL BE RUN IN CONTACT WITH STRUCTURAL PARTS OF THE BUILDING SO AS TO AVOID SUSPENDED LENGTHS OF CONDUIT. CONDUIT SHALL BE INSTALLED AS TO BE ACCESSIBLE FOR REPLACEMENT AND MAINTENANCE AND GENERALLY CONDUIT SHALL BE INSTALLED TO PERMIT DRAINAGE.

WIRE AND CABLE

- A. ALL WIRE AND CABLE SHALL BE RUN IN CONDUIT. ALL WIRE AND CABLE FEEDERS AND BRANCH CIRCUITS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE CURRENT EDITION OF THE NEC AND SHALL MEET ALL ASTM SPECIFICATIONS. WIRE AND CABLE SHALL BE NEW, SHALL HAVE SIZE, GRADE OF INSULATION, VOLTAGE AND MANUFACTURER'S NAME PERMANENTLY MARKED ON OUTER COVERING AT REGULAR INTERVAL AND SHALL BE DELIVERED IN COMPLETE COILS OR REELS WITH IDENTIFYING SIZE AND INSULATION TAGS.
- B. POWER CONDUCTORS: NO WIRE LESS THAN NO. 12 SHALL BE USED EXCEPT FOR CONTROL CIRCUITS OR LOW VOLTAGE WIRING. WIRE SIZES NO. 12 TO NO. 10 SHALL BE SOLID EXCEPT WHERE OTHERWISE INDICATED. WIRE SIZES NO. 8 AND LARGER SHALL BE STRANDED. ALL WIRE SIZES SHOWN ARE AMERICAN WIRE GAUGE SIZES. SIZES NO. 12 AWG THROUGH NO. 8 AWG SHALL BE 'THIN', SIZE 4 AWG AND LARGER SHALL BE 'THU'.
- C. CONTINUITY: ALL WIRES SHALL BE CONTINUOUS FROM OUTLET TO OUTLET.
- D. ACCEPTABLE MANUFACTURERS: CABLE AND WIRE SHALL BE STANDARD TYPE AS MANUFACTURED BY GENERAL CABLE COMPANY, CAROL, ANACONDA, ROM OR ITT ROYAL.

COLOR CODING

- A. A COLOR CODING SYSTEM AS LISTED BELOW SHALL BE FOLLOWED THROUGHOUT FOR FEEDERS AND BRANCH CIRCUITS AND USED AS A BASIS FOR BALANCING LOAD.
- 120/208V: PHASE A-BLACK, PHASE B-RED, PHASE C-BLUE, NEUTRAL-WHITE, GROUND-GREEN.
- 277/480V: PHASE A-BROWN, PHASE B-ORANGE, PHASE C-YELLOW, NEUTRAL-GRAY, GROUND-GREEN.

BOXES AND FITTINGS

- A. ALL OUTLETS SHALL BE PROVIDED WITH GALVANIZED OR SHERARDIZED BOXES SUITABLE IN DESIGN TO THE SPACE THEY OCCUPY AND THE PURPOSE THEY SERVE. WALL MOUNTED OUTLET BOXES EXCEPT FOR 2" PARTITIONS SHALL BE AT LEAST 1-1/2" DEEP AND/OR DEEPER IF REQUIRED BY THE DEVICE THEY HOLD OR THE NATIONAL ELECTRICAL CODE.
- B. ALL PULLBOXES SHALL BE MADE OF GALVANIZED STEEL, OF METAL GAUGE AND PHYSICAL SIZE AS REQUIRED BY THE NEC FOR THE NUMBER AND SIZE OF RACEWAYS AND CONDUCTORS INVOLVED.
- C. FIXTURE OUTLET BOXES IN OR ON CEILINGS SHALL NOT BE LESS THAN 1-1/2" DEEP OR LESS THAN 4" SQUARE. ALL OUTLET BOXES INTENDED TO SUPPORT FIXTURES SHALL BE EQUIPPED WITH 3/8" FIXTURE STUDS FASTENED THROUGH THE BOTTOM OF THE BOX WITH 4 BOLTS.

CIRCUIT BREAKER PANELBOARDS

- A. PANELS SHALL BE DEAD FRONT, SAFETY TYPE, FURNISHED WITH BRANCH CIRCUIT PROTECTING DEVICES, EQUIPMENT GROUNDING BOX, MAIN BUS AND CABLE LUGS FACTORY ASSEMBLED, WITH ALL COMPONENTS IN PLACE, READY FOR INSTALLATION. PROVIDE 20% SPARE BREAKER CAPACITY AND 25% EXCESS AMPACITY IN EACH PANEL.
- B. CURRENT CARRYING CONTACT SURFACES SHALL BE SILVER OR TIN PLATED. THE CIRCUIT BREAKERS SHALL BE OF THE MOLDED CASE, BOLT-ON TYPE SUITABLE FOR VOLTAGE AND AMPERE RATINGS INDICATED ON DRAWINGS AND IN SCHEDULES AND SHALL HAVE A MINIMUM INTERRUPTING CAPACITY OF 10000 AMPERES FOR 120/208 AND 14000 AMPERES AT 277/480.
- C. MAIN BUSES AND CONNECTORS SHALL BE HARD DRAIN COPPER OF 98% CONDUCTIVITY, WITH CURRENT CARRYING CAPACITY TO MAINTAIN ESTABLISHED RISE TESTS AS DEFINED IN UL STANDARD UL 67.
- D. CABINET SIZES ARE BASED UPON A 20" WIDE BY 6" DEEP PANEL UNLESS OTHERWISE NOTED. PANELBOARDS SHALL BE EQUIPPED WITH FLUSH TYPE LOCK AND CATCH. ALL LOCKS SHALL BE KEYED ALIKE, AND TWO KEYS ARE TO BE SUPPLIED WITH EACH LOCK.
- E. PANELBOARDS TO BE BY SQUARE D CORPORATION, GENERAL ELECTRIC COMPANY, OR WESTINGHOUSE.

TOGGLE SWITCHES

- A. TOGGLE SWITCHES SHALL BE IVORY AND SHALL BE RATED 20 AMPERES 120/277 VOLT AC TYPE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS:
SINGLE POLE - 1221 - 1
THREE WAY - 1223 - 1
- B. TOGGLE SWITCHES SHALL BE MOUNTED 4'-0" AFF. TO MOUNTING PLATE AND AT DOORS, INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATION INDICATED ON THE DRAWINGS; THEREFORE, CHECK ALL DOOR SWINGS BEFORE INSTALLATION OF CONDUIT OUTLETS.
- C. COMPARABLE EQUIPMENT AS MANUFACTURED BY SLATER, LEVITON, AND BRYANT WILL BE ACCEPTABLE.

RECEPTACLES

- A. RECEPTACLES SHALL MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS:
DUPLEX RECEPTACLE - 20A-120 VOLT 5362-1
NOTE: ANY OUTLET MOUNTED ON METAL SURFACE SHALL HAVE A METAL FACE PLATE.
RECEPTACLE AND PLATE COLOR SHALL MATCH ADJACENT SURFACE
- B. RECEPTACLES SHALL BE MOUNTED 12" AFF. UNLESS OTHERWISE NOTED.
- C. COMPARABLE EQUIPMENT AS MANUFACTURED BY SIERRA ELECTRIC CORPORATION, SLATER, BRYANT AND LEVITON WILL BE ACCEPTABLE.

DEVICE PLATES

- A. DEVICE PLATES SHALL MATCH ADJACENT SURFACE UNLESS OTHERWISE NOTED. COMPARABLE EQUIPMENT AS MANUFACTURED BY SIERRA ELECTRIC CORPORATION, HARVEY HUBBELL INC, BRYANT AND LEVITON WILL BE ACCEPTABLE.

DISCONNECT SWITCHES

- A. FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY CODE. DISCONNECT SWITCHES SHALL BE NEMA HEAVY DUTY TYPE AND UNDERWRITER'S LABORATORIES LISTED, MANUFACTURED BY ITE, GE OR WESTINGHOUSE.

GROUNDING

- A. CONTRACTOR SHALL INSTALL A SYSTEM GROUNDING SYSTEM AND AN EQUIPMENT GROUNDING SYSTEM AND SHALL USE ONLY APPROVED GROUNDING CLAMPS AND CONNECTORS AS MANUFACTURED BY PENN-UNION, BUNRDY, OR O-Z MFG. COMPANY.
- B. THE SYSTEM GROUNDING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE UTILITY COMPANY. REGULATIONS. CONTRACTOR SHALL CONNECT THE GROUNDING ELECTRODE CONDUCTORS TO THE NEUTRAL BAR INSIDE THE MAIN PANEL. WHEN TRANSFORMERS ARE USED TO PROVIDE A SEPARATELY DERIVED SYSTEM, THE CONTRACTOR SHALL CONNECT THE GROUNDING ELECTRODE CONDUCTOR TO THE NEUTRAL BAR INSIDE THE SECONDARY SYSTEM PANEL OR SERVICE RATED DISCONNECT SWITCH. DO NOT CONNECT THE GROUNDING ELECTRODE CONDUCTOR TO THE NEUTRAL LUG INSIDE THE TRANSFORMER.
- C. THE EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF A CONTINUOUS CONDUIT INSTALLATION AND A GREEN INITIATED EQUIPMENT GROUNDING CONDUCTOR. THIS GROUNDING CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT OR RACEWAY WITH THE FEEDER OR BRANCH CIRCUIT CONDUCTORS. THIS GROUNDING SHALL BE EXTENDED FROM THE WIRING OF EVERY ELECTRICAL LOAD, THROUGH PANELBOARD, STATIC GROUNDING BUSES, TO THE STATIC GROUNDING BUS IN THE MAIN PANEL. THE GROUNDING BUS SHALL BE BONDED TO THE GROUNDED NEUTRAL BAR INSIDE THE MAIN PANEL.

LIGHTING FIXTURES

- A. ALL LIGHTING FIXTURES AND LAMPS SHALL BE FURNISHED BY CONTRACTOR UNLESS NOTED OTHERWISE. THIS CONTRACTOR SHALL INSTALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED BELOW, COMPLETE WITH HANGERS, PLASTER FRAMES AND ALL OTHER NECESSARY ACCESSORIES.
- B. ALL BALLAST, STARTERS AND LAMPHOLDERS IN FLUORESCENT LIGHTING EQUIPMENT ARE TO BE ELECTRICAL TESTING LABORATORIES, UNDERWRITER'S LABORATORIES AND CERTIFIED BALLAST MANUFACTURERS APPROVED. ALL BALLAST FOR FLUORESCENT FIXTURES SHALL BE OF THE HIGH POWER FACTOR TYPE AND SHALL BE GENERAL ELECTRIC 'MAXIMISER II' OR ADVANCED MARK III. WHERE OCTRON LAMPS ARE SPECIFIED PROVIDE APPROPRIATE BALLASTS.
- C. THIS CONTRACTOR SHALL VERIFY THE FINAL CEILING AND FINISH SCHEDULES TO INSURE THE PROPER INSTALLATION AND MOUNTING OF FIXTURES AND SHALL COORDINATE BEFORE MAKING SUBMITTALS.

TELEPHONE SERVICE

- A. THIS CONTRACTOR SHALL INSTALL A TELEPHONE SERVICE CONDUIT AS SHOWN ON THE DRAWINGS AND FURNISH AND INSTALL ONE (1) 2" X 2" X 3/4" PLYWOOD PANEL MOUNTED ON THE WALL AT LOCATION SHOWN ON PLANS.

SURFACE METAL RACEWAY

- A. SURFACE METAL RACEWAY SHALL BE TWO PIECE #100 AS MANUFACTURED BY WIREMOLD. ALL NECESSARY ACCESSORIES REQUIRED TO FIT THE CONFIGURATION SHOWN SHALL BE PROVIDED. RECEPTACLES SHALL BE 120 VAC, 25 AMPS, CATALOG NUMBER #121GT.

FLOOR BOXES

- A. FLOOR BOXES SHALL BE WALKER 4 COMPARTMENT, ADJUSTABLE COMBINATION BOX WITH TUNNEL AND 2 RECEPTACLE BRACKETS, CATALOG NUMBER RFB-4.
- B. COVERS, RECESSED ACTIVATION WITH CARPET TRIM AND WIRE MANAGEMENT BLOCKS, CATALOG NUMBER RAKM11.
- C. TWO DUPLEX RECEPTACLES SHALL BE INSTALLED IN EACH FLOOR BOX.
- TENANT SMOKE CONTROL AND FIRE ALARM (AS REQUIRED)

- A. ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO FURNISH AND INSTALL AN AUTOMATIC FIRE ALARM SYSTEM. ELECTRICAL CONTRACTOR SHALL INSTALL HVAC EQUIPMENT AND FIRE ANNUNCIATOR PANEL IN FIRE CONTROL ROOM. THE SYSTEM DESIGN AND ALL EQUIPMENT SHALL CONFORM TO STANDARDS AND REGULATIONS OF FACTORY MUTUAL, NFPA, UL, STATE AND LOCAL BUILDING, FIRE AND SAFETY CODES. ALL SHOP DRAWINGS AND CATALOG CUTS SHALL BE SUBMITTED TO LANDLORD AND LANDLORD'S INSURANCE UNDERWRITERS FOR REVIEW.
- B. THE MALL WILL PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM WITH A JUNCTION BOX AT EACH TENANT SPACE. ELECTRICAL CONTRACTOR SHALL PROVIDE A SERIES OF SMOKE DETECTION (ONE DETECTOR PER MAXIMUM 900 SQUARE FOOT) IN ACCORDANCE WITH THE MALL FIRE ALARM SYSTEM. ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE ALARM CONTROL MODULE FOR FAN CONTROL.

- C. ELECTRICAL CONTRACTOR SHALL WIRE FROM SMOKE DETECTOR TO THE JUNCTION BOX AND FROM THE CONTROL MODULE TO THE SMOKE EXHAUST FAN AND AIR CONDITIONING UNIT STARTER. AN ALARM, THE SMOKE EXHAUST FAN SHALL BE ENERGIZED AND THE AIR CONDITIONING UNIT SHALL BE DEENERGIZED.
- D. MECHANICAL CONTRACTOR SHALL PROVIDE THE AIR CONDITIONING UNIT AND SMOKE EXHAUST FAN. ELECTRICAL CONTRACTOR SHALL COORDINATE REGARDING INTERLOCK REQUIREMENTS, AS A MINIMUM, A SMOKE DETECTOR PLACED IN THE SUPPLY AIR STREAM AND A HEAT DETECTOR PLACED IN THE RETURN AIR STREAM SHALL BE REQUIRED IN ADDITION TO THE SPACE SMOKE DETECTORS.

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ROA



ELECTRICAL
SPECIFICATIONS

DATE: 02/23/21

DRAWN BY: MC

CHECKED BY:

JOB NO. : 21-182

E-4

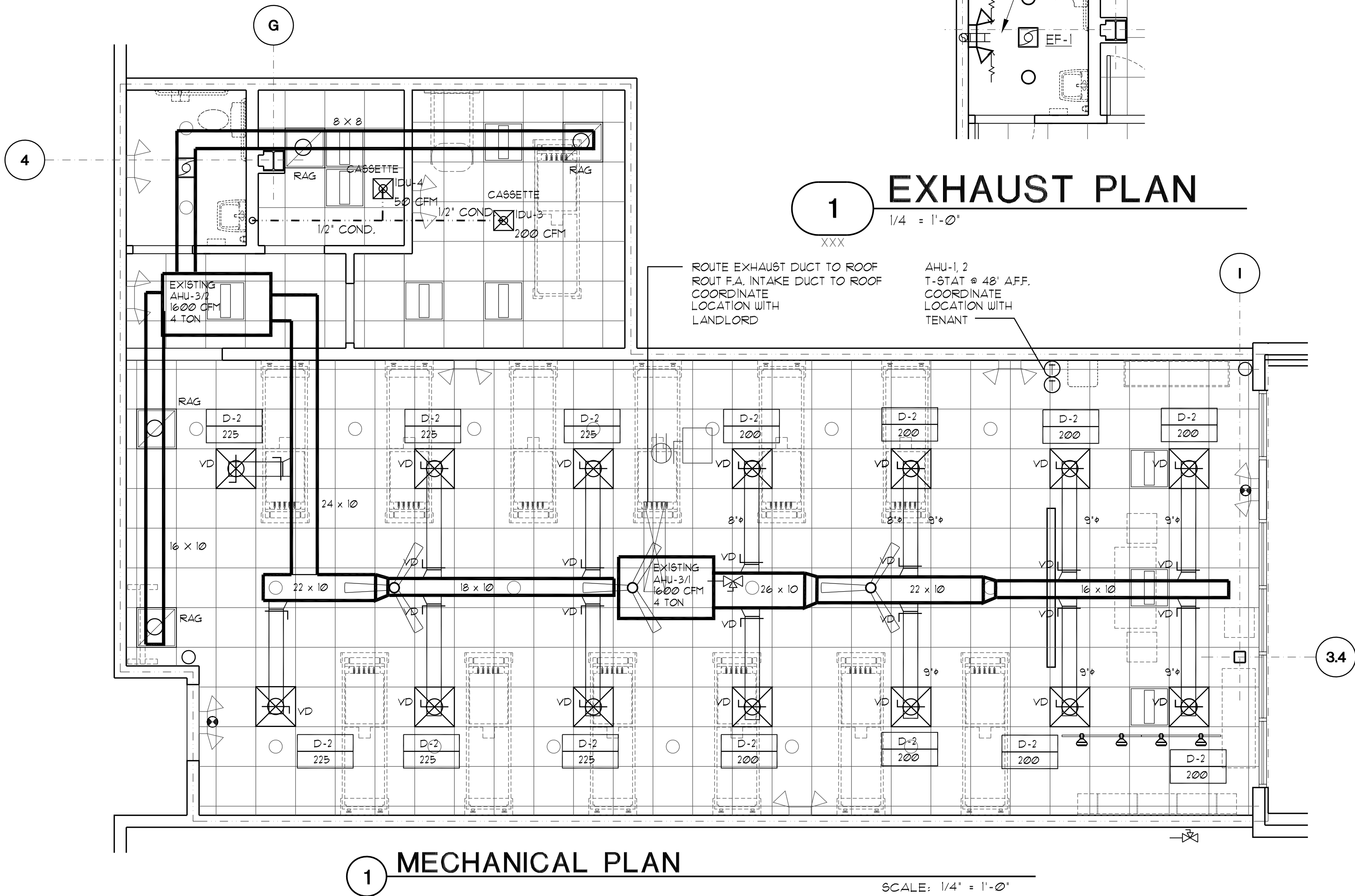
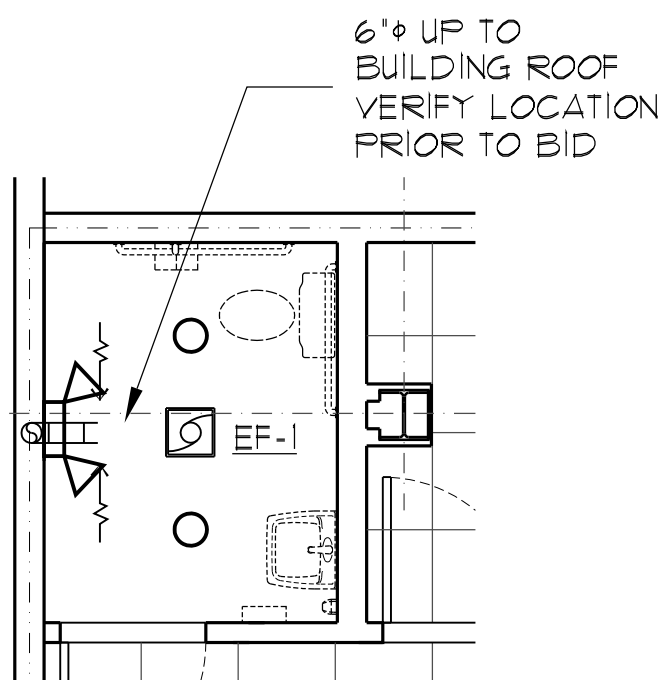
CLUB PILATES

LEE'S SUMMIT, MO 64081

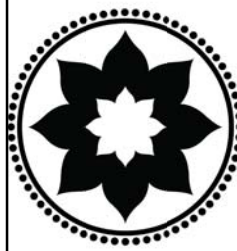
EXHAUST FAN SCHEDULE													
MARK	LOCATION	SERVES	CFM	SP IN. WG.	DRIVE	HP	RPM	WEIGHT LBS.	POLAR SUPPLY VOLT	FH	Hz	DESIGN EQUIPMENT	NOTES
EF-1	RESTROOM CEILING	RESTROOM	100	.125	DIRECT	1/10	---	15	120	1	60	PANMEK *AZ70VL	PROVIDE W/ INTEGRAL BACKDRAFT DAMPER

NCMC FRESH AIR CALCULATIONS CODE SECTION 403:							
OCCUPANCY CLASSIFICATION	SQ. FOOTAGE	CFM/PERSON	# / PEOPLE 10/1000 SF	O.A. REQ'D. PER PERSON	O.A. REQ'D. PER SF. X 0.06	O.A. REQ'D.	O.A. PROVIDED
TENANT SPACE	2231	20	22.31	446.2	88.68	133.86	580.06
TOTAL O.A. CFM							581

AIR DEVICE SCHEDULE									
TAG	MANUFACTURER MODEL NO.	TYPE	MATERIAL	MOUNTING	FACE OR MODULE SIZE	NECK SIZE	RUNOUT SIZE	CFM RANGE	SEE NOTES
D-1	TITUS TMSA-AA	ADJUSTABLE SQUARE CEILING	ALUMINUM	SURFACE	12" X 12"	6" DIA.	6" DIA.	0-100	2, 3, 5, 7
D-2	TITUS TMSA-AA	ADJUSTABLE SQUARE CEILING	ALUMINUM	SURFACE	24" X 24"	14" DIA.	14" DIA.	601-900	2, 3, 5, 7
D-3	TITUS 300FS	SIDE WALL SUPPLY GRILLE	ALUMINUM	DUCT-MTD	24" X 12"	--	--	376-600	1, 3, 5, 7, 8
D-4	TITUS TMRA-AA	ADJUSTABLE SQUARE CEILING	ALUMINUM	SURFACE	24" X 24"	--	14" DIA.	601-900	3, 5, 7
D-5	TITUS TMRA-AA	ADJUSTABLE SQUARE CEILING	ALUMINUM	SURFACE	22 1/2" DIA.	--	12" DIA.	201-650	2, 3, 5, 6, 7
NOTES 1. MOUNT 45 DEGREE DOWN TOWARDS THE FINISH FLOOR 2. PROVIDE OPPOSED BLADE VOLUME DAMPER. 3. PROVIDE ADJUSTABLE AIR PATTERN. 4. PROVIDE 1/2" X 1/2" X 1/2" CORE. 5. WHITE FINISH 6. PROVIDE SAFETY CHAIN 7. PROVIDE SUITABLE FRAME FOR CEILING/WALL TYPE. COORDINATE WITH ARCHITECTURAL PLANS 8. DOUBLE DEFLECTION									



REVISIONS:

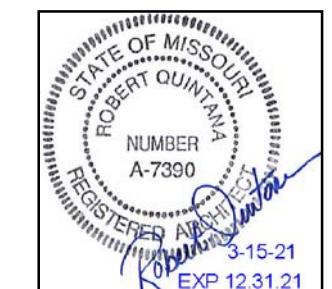


CLUB PILATES

CLUB PILATES
STREETS OF WEST PRYOR
940 NW PRYOR ROAD
SUITE - E
LEE'S SUMMIT, MO 64081

ROBERT QUINTANA
ARCHITECTS
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ROA



MECHANICAL
PLAN

DATE: 02/23/21
DRAWN BY: MC
CHECKED BY:
JOB NO. : 21-182

M-1

DIVISION 15 - MECHANICAL SPECIFICATIONS
SECTION 1500
MECHANICAL SPECIAL CONDITIONS

GENERAL

- A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.
- B. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

SCOPE

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE FACE OF THE GENERAL CONSTRUCTION.

INSECTIONS OF SITE

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOBSITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

PERMITS

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

COST REQUIREMENTS

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

MATERIALS AND WORKMANSHIP

A. ALL MANUFACTURERS' MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.

- B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES. DO NOT JUST ABANDON.

CODES AND REGULATIONS

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED, IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

PROTECTION OF WORK AND PROPERTY

A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL, AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.

- B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED BY THE APPLICABLE LAWS. THE OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

COOPERATION

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFERENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

SUBSTITUTION OF MATERIALS

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

SHOP DRAWINGS

SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

DRAWINGS AND SPECIFICATIONS

A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.

- B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

RESPONSIBILITY

A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL NECESSARY INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.

- B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

HEATING, VENTILATING AND AIR CONDITIONING

GENERAL

A. THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION, OR INSTRUCTIONS TO BIDDERS, AND THE GENERAL CONDITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE OWNER, HEREWITH, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY RESPECT.

- B. THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.

EXAMINATION OF SITE

ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS THEREON AND/OR THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

SCOPE

FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE FULLY OPERATIVE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY THE DRAWINGS, AND/OR TENANT'S DIRECTIONS.

EQUIPMENT

A. AIR HANDLING UNITS - UNITS SHALL BE FACTORY ASSEMBLED AND FREE TESTED FOR MOTOR HEAT. THE AIR HANDLING UNITS, FITCH DRIVES, ETC. ALL UNITS SHALL BE EQUIPPED WITH AN ECONOMIZER PACKAGE AND RELIEF DAMPER. UNITS SHALL HAVE NET CAPACITY RATINGS DETERMINED AT THE SPECIFIED DESIGN CONDITIONS. THESE NET CAPACITY RATINGS SHALL BE DETERMINED BY DEDUCTING FOR MOTOR HEAT. THE AIR HANDLING UNITS SUPPLIED SHALL HAVE A TOTAL SYSTEM ENERGY RATIO (EER) OF NOT LESS THAN 7.5. THIS EER SHALL BE DETERMINED BY DIVIDING THE NET CAPACITY AS DEFINED ABOVE BY THE TOTAL INPUT WATTAGE. THE TOTAL INPUT WATTAGE IS TO INCLUDE THE WATTAGE OF ALL FAN MOTORS AND ASSOCIATED EQUIPMENT. CONTRACTOR WILL FURNISH VIBRATION ISOLATION AS REQUIRED AND RECOMMENDED BY EQUIPMENT MANUFACTURER.

RELIEF AIR FANS

- B. RELIEF AIR FANS
1. GRAVITY RELIEF - EQUAL TO BREIDERT TYPE "RLO" WITH INTEGRAL BACKDRAFT DAMPER AND INSECT SCREEN.
 2. POWER RELIEF - EQUAL TO BREIDERT TYPE "LO-SET" SET WITH MOTORIZED DAMPER AND INTEGRAL BACKDRAFT DAMPER AND INSECT SCREEN.

C. ELECTRIC DUCT HEATER - EACH DUCT HEATER SHALL BE CONSTRUCTED TO SLIP INTO THE DUCT THROUGH A RECTANGULAR OPENING IN THE SIDE. EACH DUCT HEATER SHALL BE FURNISHED COMPLETE WITH BUILT-IN MAGNETIC CONTACTORS, AIR FLOW SWITCH, AND FACTORY PREWIRED TO TERMINAL DUCTS FOR LINE AND CONTROL CONNECTIONS IN THE FIELD. A THERMAL CUTOFF SHALL BE FURNISHED WITH EACH DUCT HEATER TO PROTECT THE HEATER AGAINST AIR FAILURE. THE COMPLETE HEATING UNIT SHALL BE LISTED BY UNDERWRITER'S LABORATORY. THE COILS SHALL BE ARRANGED FOR MINIMUM 2-STAGE CONTROL 100W AND ABOVE.

- D. FILTERS - FILTERS SHALL BE OF THE THROW AWAY TYPE OR AS MAY BE SUBSTITUTED IF NECESSARY THE PERMANENT TYPE, THEN THEY MUST BE OF THE CLEANABLE, HIGH VELOCITY TYPE AND SHALL BE AMERICAN AIR FILTERS, AIR MAYS, EVANS, OR APPROVED EQUAL. FILTERS SHALL BE OF THE OPTIMUM THICKNESS AND DESIGN FACE VELOCITY SHALL NOT EXCEED 550 FPM. INSTALLATION OF THE AIR CONDITIONING UNIT SHALL BE SUCH SO AS TO NOT IMPEDE ACCESS TO THE FILTERS. IF THE FILTERS ARE IN FRAME HOLDERS, THEN SUCH HOLDERS SHALL BE PROVIDED WITH A LEFT HANDLE.

EXHAUST FANS

- E. EXHAUST FANS
1. SHOW WINDOWS - EQUAL TO COOK GEM-N SERIES. NOTE THAT IN ANY CASE, NO PLASTIC PARTS WILL BE ACCEPTABLE.
 2. TOILET EXHAUST FAN/LIGHT COMBINATION BY E.C. SHALL BE BROWN 68-1, 10 CFM @ 25 DB WITH 4" DIA. DUCT AND BACKDRAFT DAMPER 120/1/60, 35 SONES, 2.0 AMPS.

F. ALL SINGLE STAGE UNITS WILL BE EQUIPPED WITH DYNELOCO MULTI-STAGE THERMOSTAT-FC-AVG THERMOSTAT. A DUAL STAGE UNIT WILL BE EQUIPPED WITH A TANDEN DUAL THERMOSTAT ARRANGEMENT. DESIGN AND STANDARD CONDITIONS FOR THERMOSTAT OPERATION WILL BE AS FOLLOWS:

COOLING: 75F MINIMUM OCCUPIED COOLING TEMPERATURE
95F COOLING NIGHT SETBACK
HEATING: 70F MAXIMUM OCCUPIED HEATING TEMPERATURE
60F HEATING NIGHT SETBACK

- G. THE HVAC SUBCONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED HVAC EQUIPMENT AND APPARATUS WITH 2" HIGH PAINTED STENCILED STORE NAME ON ALL SIDES OF EQUIPMENT.

DUCTWORK

A. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE	G.A.U.G.E.
12" AND LESS	NO. 26 U.S. GAUGE
13" TO 30"	NO. 24 U.S. GAUGE
31" TO 54"	NO. 22 U.S. GAUGE
55" TO 84"	NO. 20 U.S. GAUGE
85" AND OVER	NO. 18 U.S. GAUGE

- B. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED AS FOLLOWS:

SIZE	METHOD
17" AND LESS	"S" AND DRIVE CLEATS
18" TO 30"	"L" STANDING BEAMS ON 3'-0" CENTERS
31" TO 54"	1-1/4" STANDING BEAMS ON 3'-0" CENTERS

- C. ROUND DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE (DIAMETER)	DUCTS	FITTINGS
8" AND LESS	24	22
9" TO 18"	22	20
19" TO 30"	20	18

ALL 90 DEGREE ELBOWS FOR ROUND DUCTWORK SHALL BE FIVE (5) PIECE. ALL LONGITUDINAL SEAMS SHALL BE FORMED BY PITTSBURGH LOCKS. JOINTS SHALL BE SWAGGED WITH 1/2" OVERLAP.

- D. ALL SUPPLY AIR DUCTS (HEATING AND COOLING) AND RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL WITH MINIMUM 1" THICK INTERNAL ACOUSTICAL AND THERMAL INSULATION. ALL EXHAUST AND RELIEF AIR DUCTS SHALL BE GALVANIZED STEEL.

- E. CONTRACTOR WILL INSTALL INSECT SCREENS ON ALL DUCT OPENINGS WHICH LEAD TO OR ARE OUTDOORS. INSECT SCREENS SHALL BE 10 GAUGE, 1/2" MESH IN REMOVABLE GALVANIZED STEEL FRAMES.

- F. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE) AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST METHODS RECOMMENDED IN THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION.

HANGERS AND SUPPORTS

- A. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40" AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 U.S. GAUGE ATTACHED TO THE DUCT BY MEANS OF RIVETS, SCREWS, OR CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOGGLE BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1-1/4" X 1-1/4" X 1-1/4" ANGLES WHERE THEY PASS THROUGH THE FLOOR LINES.

- B. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40" AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZOIDAL HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS.

FLASHING

A. CONTRACTOR WILL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.

- B. ALL CUTTING OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS, FITCH DRIVES, ETC. SHALL BE DONE BY THE CONTRACTOR. REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT. HVAC SUBCONTRACTOR, HE SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.

DAMPERS

A. SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEMMED. EACH DAMPER SHALL BE LARGE ENOUGH TO COVER THE SMALLER OF THE TWO OPENINGS. IT CONTROLS. DAMPER SHALL BE CONTROLLED AS FOLLOWS:

EXPOSED OR ACCESSIBLE DUCTWORK - LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 1 WITH DAMPER ROD END BEARINGS ON OPPOSITE END.

CONCEALED DUCTWORK - LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH ENDS).

- B. VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR EQUAL. BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON 1/2" DIAMETER RUSTPROOF AXLE. BEARINGS SHALL BE OF THE SELF-LUBRICATING FERRULE TYPE.

- C. JOB FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE ELBOWS. PROVIDE AND INSTALL BARBER-COLMAN AIR TURNS OR EQUAL. TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTER-LINE RADIUS OF 1-1/2 TIMES THE DUCT WIDTH.

DUCTWORK - EXCEPTIONS

DUCTWORK FOR EXHAUSTING AIR OR OUTSIDE SUPPLY AIR SHALL BE ALL METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES AS FOUND IN THE LATEST ISSUE OF ASHRAE.

SUPPORT OF DUCT SYSTEM

DUCTWORK SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8'-0" O.C. FOR STRAIGHT DUCTS UP TO 35" TO 55" MAXIMUM DIMENSION, 6'-0" O.C. AND DUCTS OVER 60" MAXIMUM DIMENSION, 4'-0" O.C.

HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT THE DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE FOREMENTIONED DOCUMENTS ARE ADHERED TO.

REINFORCEMENT

ALL DUCTS REQUIRING REINFORCEMENT SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL.

MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL, ALL SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

ACCESSORY ITEMS

ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CONNECTIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE LATEST PUBLICATION OF "SMACNA" MANUAL.

HANDICAPPED SPECIFICATIONS: ARCHITECTURAL BARRIERS ACT, 42 USC, 4151-4151

GENERAL

THE WORK COVERED BY THESE SPECIFICATIONS INCLUDES BUT IS NOT LIMITED TO PROVIDING ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLY WITH HANDICAP REQUIREMENTS IN THIS ESTABLISHMENT.

PLUMBING FIXTURES

A. WATER CLOSET - EQUAL TO AMERICAN STANDARD TANK-TYPE #10935ER WITH CHURCH SEAT #53302063 1/2" C.W. SUPPLY AND 4" VENTED WASTE.

WATER CLOSET (HANDICAPPED), WHEN SPECIFIED - EQUAL TO AMERICAN STANDARD TANK-TYPE #108408 ELONGATED WATER SAVER CADET 18" HIGH WITH OLSONITE #35 CLOSET SEAT AND 3405.016 SUPPLY PIPE.

HEIGHT OF WATER CLOSET SEAT SHALL BE 18" AFF: AMERICAN STANDARD MODEL 21008416, (4186)

GRAB BARS FOR THE PHYSICALLY HANDICAPPED, AS REQUIRED - 18 GAUGE, TYPE 304 STAINLESS STEEL WITH NON-SLIP GRIPPING SURFACE AND EXPOSED MOUNTING PLATES.

ONE AT SIDE 42" LONG EXTENDING IN FRONT OF WATER CLOSET; ONE AT REAR 36" LONG CENTERED ON WATER CLOSET; BOTH MOUNTED 36" ABOVE FLOOR. (4126)

BAR SHALL BE 1-1/4" TO 1-1/2" IN DIAMETER WITH 1-1/2" CLEARANCE TO WALL. (4126)

BAR FASTENERS AND MOUNTING SUPPORT SHALL WITHSTAND 250 LBS./FT. BENDING, SHEAR, AND TENSION. (4126)

- B. LAVATORY - EQUAL TO AMERICAN STANDARD #3611055 WITH #2238.582 WITH WRIST BLADE HANDLES AND POP-UP DRAIN FAUCET SET, 1/2" C.W. AND H.W. SUPPLY, AND 1-1/2" VENTED WASTE. (WHEN SPECIFIED HANDICAPPED MOUNT BOTTOM OF RIM @ 29" AFF.)

PROVIDE 30" X 48" CLEAR FLOOR SPACE FOR FORWARD APPROACH, INCLUDING KNEE AND TOE SPACE. (4193)

PROVIDE CLEAR SPACE BENEATH LAVATORY 29" HIGH X 30" WIDE X 8" DEEP (KNEE SPACE) AND 9" HIGH FROM THE FLOOR X 30" WIDE X 11" DEEP FROM FRONT OF LAVATORY (TOE SPACE). (4192)

HOT WATER AND DRAIN PIPE UNDER LAVATORY SHALL BE INSULATED WITH ARISTONG ARMAFLEX PIPE INSULATION. MITER CUT PIECES JOINED TOGETHER WITH ARISTONG 920 ADHESIVE. (4194)

FAUCET CONTROLS AMERICAN STANDARD (1516.112 OR EQUAL) SHALL BE OF THE TYPE NOT REQUIRING TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST AND AN OPERATING FORCE NOT EXCEEDING 9 LBS. (4195)

SELF-CLOSING VALVES SHALL BE OF THE TYPE REMAINING OPEN FOR AT LEAST 10 SECONDS. (4195)

- C. CLEANOUTS - SHALL BE AS MANUFACTURED BY JOSAM, ZURN, MFG. CO. OR EQUAL AND SHALL BE INSTALLED AT ALL BENDS, ANGLES, AND ENDS OF ALL WASTE AND SEWER LINES, AS CALLED FOR ON THE DRAWINGS, AND AS REQUIRED BY LOCAL CODES. ALL CLEANOUTS SHALL BE BROUGHT TO GRADE, AND IN ALL CASES, SHALL BE PROVIDED WITH SUFFICIENT SPACE FOR RODDING.

- D. MOP SINK - EQUAL TO "FIAT" PRODUCTS MODEL #158-2424 24" X 24" ONE-PIECE MOLDED STONE WITH 3" DRAIN, VINYL BUMPERGUARD ON 3 SIDES, SERVICE FAUCET #330-AA1 8" CTR. TO CTR. INLETS WITH BACK FLOW PREVENTER/VACUUM BREAKER HOSE AND HOSE BRACKET #332-AA. PROVIDE 3" VENTED WASTE WITH "P-TRAP"; 1/2" HOT AND COLD WATER SERVICE. CAULK WITH A SILICONE SEALANT ALONG WALLS. MOUNT MOP HANGER AT 4'-0" AFF. ALL MATERIALS FURNISHED AND INSTALLED BY OWNER'S CONTRACTOR.

- E. FLOOR DRAIN - EQUAL TO JOSAM 3" #303 CAST IRON DRAIN WITH NICKEL-BRONZE ADJUSTABLE STRAINER 4 TRAP PRIMER 1 INSIDE CAULK, OUTLET AND CLAMPING DEVICE WHERE REQUIRED.

- F. WATER HEATER - TYPE EQUAL TO CHRONOMITE #1-15L-211 4155 WATT HEATING ELEMENT 68 DEGREE RISE FOR 0.3 GPM

- G. TOILET TISSUE DISPENSER SHALL BE MOUNTED WITHIN 12" FROM THE FRONT EDGE OF TOILET SEAT. 19" MIN. AFF. (4166)

- H. PAPER TOWEL DISPENSER - DISPENSES 400 C-FOLD OR 525 MULTIFOLD PAPER TOWELS, CABINET - STAINLESS STEEL (BOBRICK EQUIPMENT #5-262 OR EQUIVALENT).

- I. WASTE RECEPTACLE - METAL FREE STANDING WASTE WITH OPEN TOP.

- J. SURFACE MOUNTED SOAP DISPENSER - PUSH-UP DISPENSER WITH VISIBLE CONTAINER AND CHROME PLATED MOUNTING BRACKET (BOBRICK EQUIPMENT #B195 OR EQUIVALENT).

NOTE: OPERATING PARTS OF DISPENSER AND DISPOSAL FIXTURES SHALL BE WITHIN 40" OF FLOOR. (4237)

- K. MIRROR - 18" X 30" WITH ONE PIECE ROLL FORMED FRAME, TYPE 304 STAINLESS STEEL, WITH CONCEALED HANGER (BOBRICK EQUIPMENT #5-290 OR EQUIVALENT).

MIRROR BOTTOM EDGE SHALL BE LOCATED 40" MAXIMUM ABOVE FLOOR. (4196)

NOTE: OWNER'S CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF ALL TOILET ACCESSORIES INCLUDING PROPER BLOCKING IN WALL.

MATERIALS

A. SANITARY SEWER - CAST IRON OR COPPER PIPING MAY BE USED EXCEPT THAT ALL PIPING BELOW GRADE SHALL BE CAST IRON. VENTS 2" IN SIZE AND SMALLER MAY BE EITHER SCHEDULED 40 GALVANIZED STEEL OR COPPER PIPING.

- B. DOMESTIC WATER AND HOT WATER PIPING SHALL BE COPPER TYPE "L" INSULATED WITH ARMAFLEX OR EQUIVALENT INSULATING TO A THICKNESS OF 1".

- C. GAS PIPING (WHEN REQUIRED) SHALL BE BLACK STEEL SCHEDULE 40 WITH SCREWED FITTINGS.

PIPING

A. PIPING AND FITTINGS SHALL BE OF THE WEIGHTS AND TYPES SHOWN ON THE DRAWINGS. SIZES SHOWN ON THE DRAWINGS ARE NOMINAL PIPE SIZES.

- B. ALL PIPING SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES WITH THE BUILDING WALLS AND PARTITIONS AND SHALL BE INSTALLED WITH THE PROPER PITCH.

- C. ALL PIPING SHALL BE UNPEENED AND ROUNDED TO REMOVE ANY FOREIGN MATTER PRESENT AND SHALL BE SWABBED, IF NECESSARY.

MAKING UP PIPE

A. SCREWED PIPE SHALL BE MADE UP WITH PIPE COMPOUND APPLIED TO THE MALE THREAD AND NOT MORE THAN TWO THREADS LEFT EXPOSED. PIPE SHALL BE REAMED AFTER THREADING.

- B. BELOW GRADE SANITARY PIPING SHALL BE CAST IRON PIPE AND SHALL BE MADE UP WITH ONE THIRD OF THE HUB CAULKED WITH FIRST QUALITY CAULKING AT ONE JOINTS AND CAULKED TIGHT.

- C. COPPER JOINTS SHALL BE MADE UP WITH 95-5 SOLDER.

HANGERS AND SUPPORTS

HORIZONTAL PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 10'-0" WITH SUISVEL SPLIT PIPE HANGERS EQUAL TO CRANE NO. 199F OR GRINNELL NO. 104. VERTICAL PIPING SHALL BE SUPPORTED BY MEANS OF WROUGHT IRON CLAMPS SUSPENDED FROM THE UNDERSIDE OF STRUCTURE WITH HANGER RODS.

VALVES

ALL VALVES SHALL BE BRASS AND MANUFACTURED BY CRANE, NIBCO, STOCKHAM, LUNKENHEIMER, NORDSTROM, GRINNELL OR EQUAL.

ROUGH-INS

FOR SECOND LEVEL STORES, THE TENANT'S GENERAL CONTRACTOR SHALL RUN ALL LINES REQUIRED FOR PLUMBING ROUGH-INS TIGHT AGAINST THE UNDERSIDE OF THE SECOND FLOOR LEVEL. THE SECOND FLOOR STRUCTURAL SLAB SHALL BE CORED AS REQUIRED TO INSTALL THESE ITEMS AT THE LOCATIONS SHOWN ON THE PLANS.

TESTING AND ADJUSTING

CONTRACTOR WILL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATISFACTION OF TENANT. WILL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND WILL RECORD VOLUME READINGS IN ACCORDANCE WITH ASHRAE AND PROVIDE SAME TO TENANT. ALL PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER GOVERNING PLUMBING CODE.

GUARANTEE

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE TENANT.

MECHANICAL

TEMPORARY SERVICES

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF TEMPORARY SERVICES:

- A. TELEPHONE - A JOBSITE CELL PHONE AND NOTIFY TENANT AS LISTED ON SHEET A-1 OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.

- B. TEMPORARY WATER - WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIREMENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.

- C. TEMPORARY ELECTRICITY - TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTRUCTION METERS, DROPS, AND OTHER WIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.

- D. TEMPORARY HEAT - WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE LANDLORD OR LOCAL AUTHORITY.

- E. COST OF LANDLORD PROVIDED UTILITY SERVICES - IF THE LANDLORD ELECTS TO PROVIDE TEMPORARY UTILITY SERVICES, THE CONTRACTOR WILL BE SO INFORMED BY THE TENANT. THE CONTRACTOR SHALL MAKE PROVISIONS OR COORDINATE WITH LANDLORD'S GENERAL CONTRACTOR TO PAY THE COST OF SAID TEMPORARY CONSTRUCTION AND UTILITY SERVICES.

NOTE FOR TENANT GENERAL CONTRACTOR

IT IS THE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.

CONTRACTOR'S NOTES:

EACH CONTRACTOR SHALL WARRANT HIS WORK FOR ONE (1) YEAR FROM THE OPENING DATE OF THE STORE.

ALL CONTRACTORS SHALL PERFORM THEIR WORK ACCORDING TO STATE AND/OR LOCAL CODES.

REVISIONS:



CLUB PILATES
STREETS OF WEST PRYOR
940 NW PRYOR ROAD
SUITE - E

LEE'S SUMMIT, MO 64081



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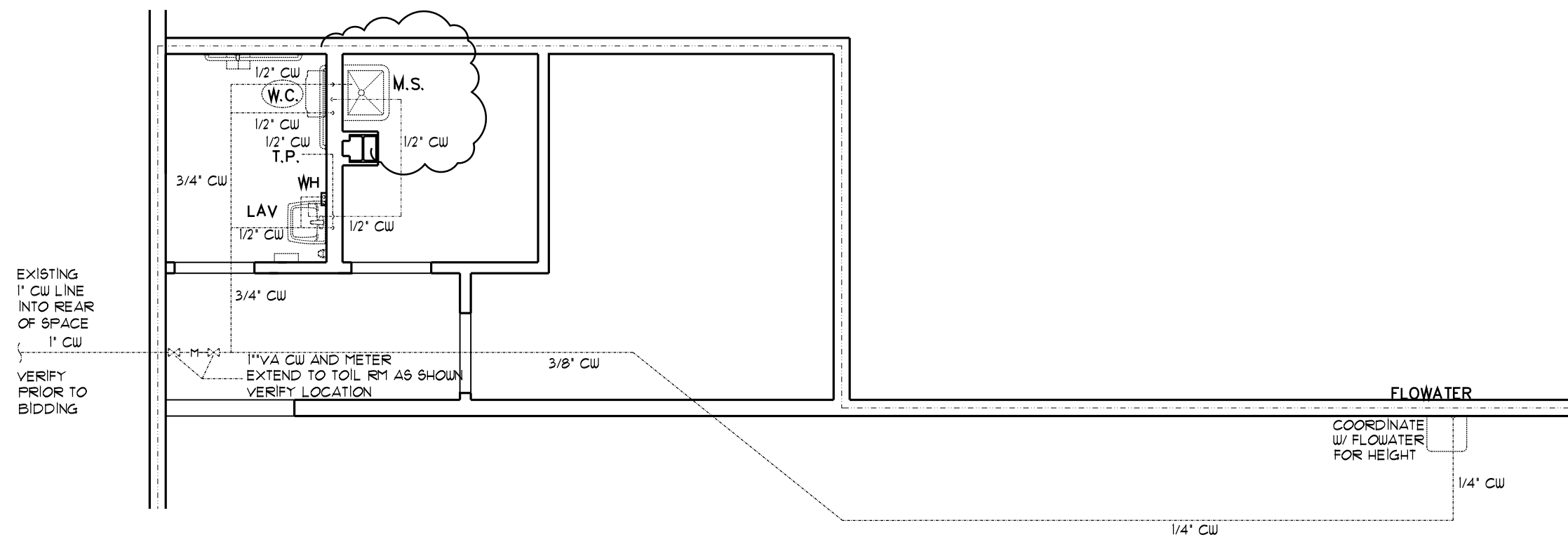
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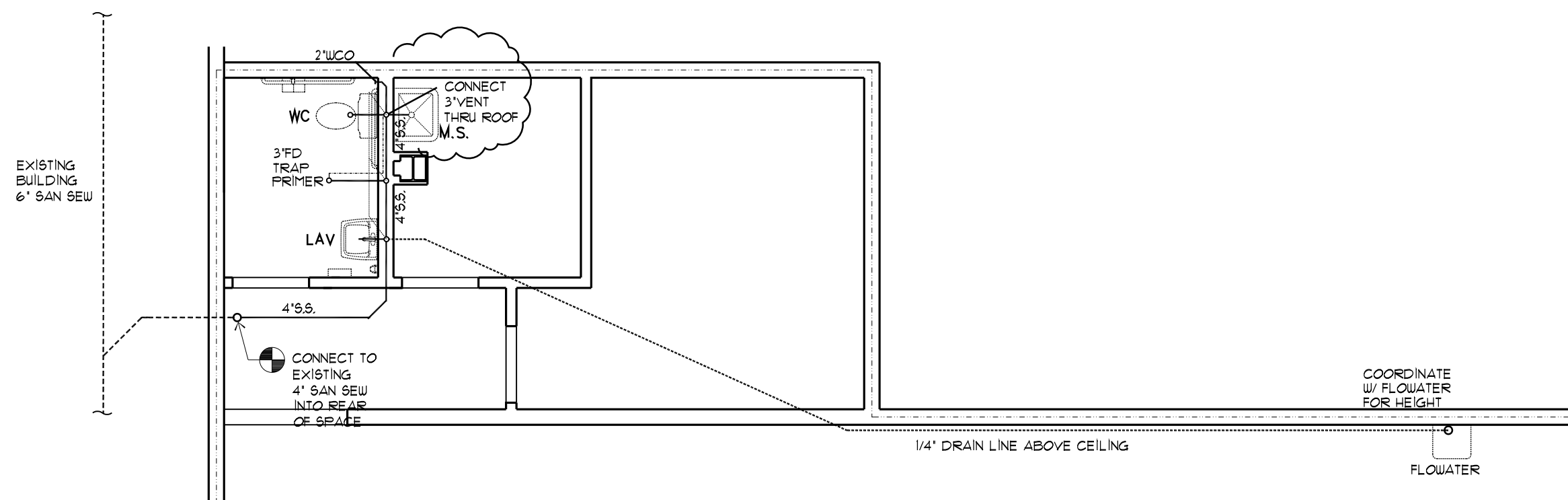
PLUMBING
PLAN

DATE: 02/23/21
DRAWN BY: MC
CHECKED BY:
JOB NO.: 21-182

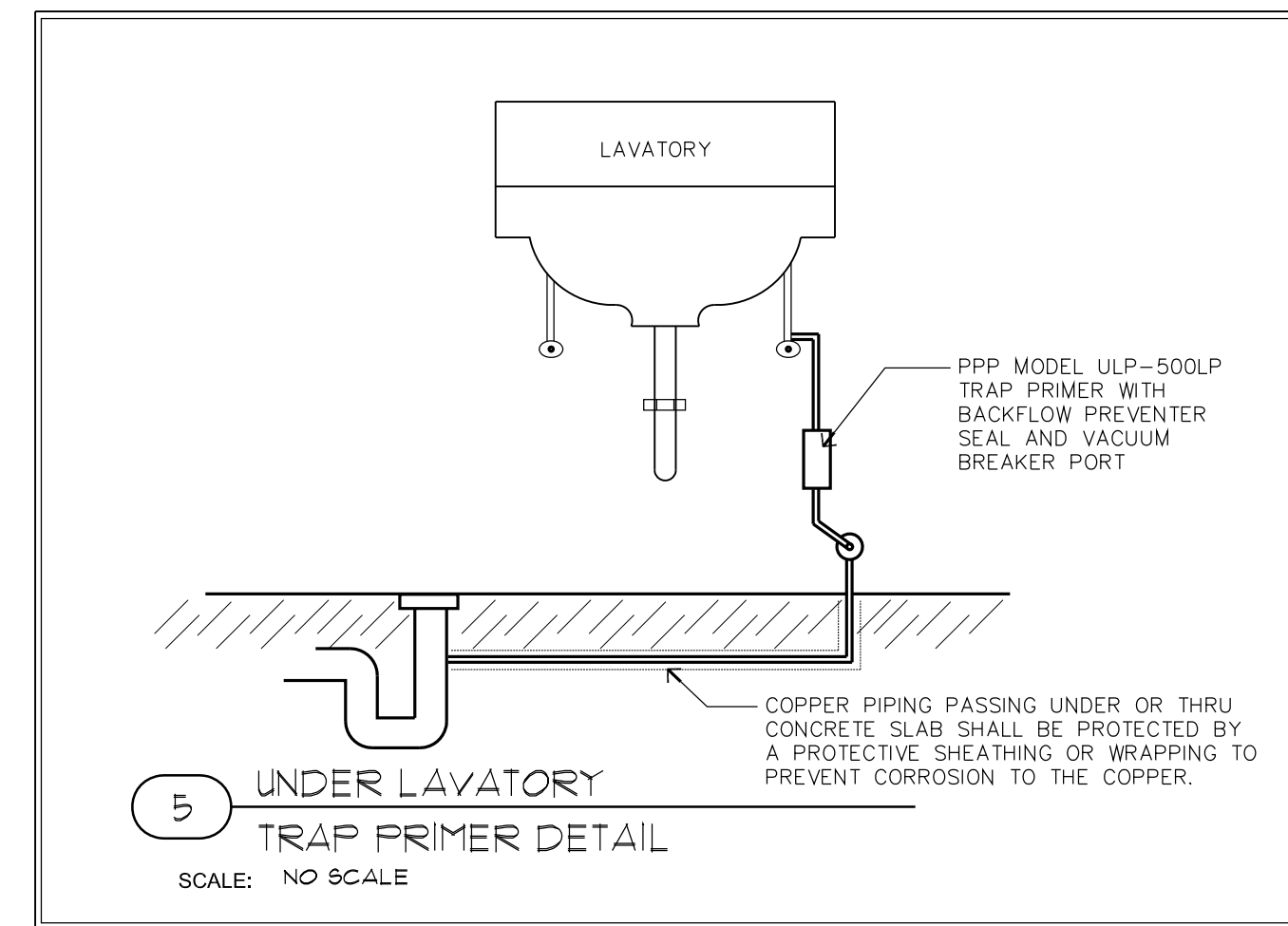
P-1



2 PLUMBING PLAN WATER



1 PLUMBING PLAN SEWER



5 UNDER LAVATORY
TRAP PRIMER DETAIL
SCALE: NO SCALE

FLOWATER REFILL STATIONS

DIMENSIONS

Note: If placing a Refill Station in an enclosed cabinet, please leave 3" clearance on each side, and 6" clearance to the rear. Ensure that there is sufficient venting.

myflowater.com FLOWATER 877.772.7775

FLOWATER REFILL STATIONS

DIMENSIONS

ADA Reach Compliance: Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

myflowater.com FLOWATER 877.772.7775

FLOWATER REFILL STATIONS

SPECIFICATIONS

GENERAL
Indoor/outdoor, stand-alone, refrigerated, 7x purified water Refill Station. Refill Stations require 1" clearance (5" recommended from walls and/or structures and must be placed under cover when outdoors). No direct sunlight.

CERTIFICATIONS/STANDARDS
ISO 9001
NSF/ANSI 42, 53 & 55
NSF/ANSI 42 ensures that chlorine, taste, odor, and particulates are filtered out. NSF/ANSI 53 ensures health-related contaminants are filtered out. NSF/ANSI 55 ensures fluoride, chromium, nitrates, and TDS are reduced.
ADA Compliance: These Refill Stations comply with the requirements of the ADA/Amendments with Disabilities Act.

FEED WATER
Refill Stations have been designed and built to purify municipal tap water most efficiently at 70 psi. Refill Stations are designed to operate on 50 psi to 100 psi supply line pressure. If inlet pressure is above 100 psi, a pressure regulator must be installed in the supply line. Any damage caused by reason of connecting this product to supply line pressure slower than 50 psi or higher than 100 psi is not covered under Flowater's service policy. Refill Stations are designed to operate in ambient temperatures - 60°F-104°F. Ambient temperatures greater than 104°F can result in damage to the carbon and advanced osmosis filter. Refill Stations should be placed indoors if ambient temperatures are greater than 104°F. Any damage caused by exposure to ambient temperatures below 32°F is not covered under Flowater's service policy. Operate only in non-condensing humidity. Refill Stations are prepped with a 1/4" John Guest quick-connect fitting located in rear, lower left of unit and require a 1/4" waterline. A water shut-off valve located behind should be installed.

DRAIN WATER
Advanced Osmosis: Refill Stations utilizing advanced osmosis require a drain. Advanced osmosis product water to bypass water in a 1:2 ratio at 70 psi. Lower water pressure results in lower advanced osmosis efficiency. Refill Stations are prepped with a 1/4" John Guest quick-connect fitting located in rear, lower left of unit and require 1/4" drain line. Depending on local plumbing codes, Flowater may install an FDA and NSF certified check valve/backflow preventer on the drain line. Drain lines can be run up to 10' vertically and 100' horizontally with system pressure.

PURIFICATION
Refill Stations use a 7x purification system, including a soft-carbon filter, carbon filter, advanced osmosis, coconut carbon filter, mineral filter, alkaline filter, and activated oxygen. This purification system has been designed to handle hard water but may require more regular advanced osmosis or UF filter changes.

CHILLING SYSTEM
Chilling Capacity:
33.6°F-34.7°F
33.6°F-35.6°F (factory default)
35.6°F-42.8°F
37.4°F-44.6°F
Chilling capacity of drinking water based upon 80°F inlet water and 90°F ambient. The reserve tank that feeds the chilling tank is five gallons. The chilling tank is two gallons.

Power Draw:
115.3 volts, 0.29 Amps, 30 Watts, 60 Hz (compressor off), 121 volts, 2.5 Amps, 165 Watts, 60 Hz (compressor running)

Motor Compressor: Hermetically sealed, rotating type, 110-115VAC, 60Hz single phase. Sealed-in lifetime oil supply. Equipped with electric cord and three prong grounded molded rubber plug.

Condenser: Air-cooled condenser with steel wire tube. Tube emits heat in natural ambient air. Cooling Unit: Combination tubular-type. Tube portion is continuous coil of copper tubing. Tank is stainless steel. Fully insulated with EPS foam which meets Underwriters Laboratories Inc. requirements for self-extinguishing material.

Refrigerant Control: Refrigerant R410A is controlled by accurately calibrated capillary tube for trouble-free operation. It is an environmentally friendly refrigerant gas.

Temperature Control: Enclosed adjustable thermostat is initially set to maintain water temperature between 32.0°F and 35.6°F. Requires no adjustment other than for altitude requirements. See Chilling Capacity section for available temperature ranges.

ADA COMPLIANCE
Flowater Refill Stations comply with ADA reach requirements with a maximum reach of 48".

myflowater.com FLOWATER 877.772.7775

FLOWATER REFILL STATIONS

INSTALLATION

Installation with Advanced Osmosis

myflowater.com FLOWATER 877.772.7775

MECH. LEGEND	
SYMBOL	DESCRIPTION
Ⓚ	THERMOSTAT
Ⓢ	REMOTE SENSOR
Ⓕ	FIRESTAT
Ⓚ	DUCT DETECTOR PROVIDE FAN SHUT DOWN
—	VOLUME DAMPER
Ⓕ	FIRE DAMPER
—	SUPPLY
Ⓚ	RETURN AND/OR EXHAUST
+	DUCT ELBOW (PROVIDE TURNING VANES)
Ⓚ	OPPOSED BLADE DAMPER
Ⓚ	MOTORIZED DAMPER
+	DUCT CONN. TO RECTANGULAR DUCT W/SPIN-IN FITTING & VOL DMFR
—CD—	CONDENSATE DRAIN
—	HOT WATER LINES
—	COLD WATER LINES
—SS—	SANITARY LINES
—	VENT LINES
—G—	GAS LINES