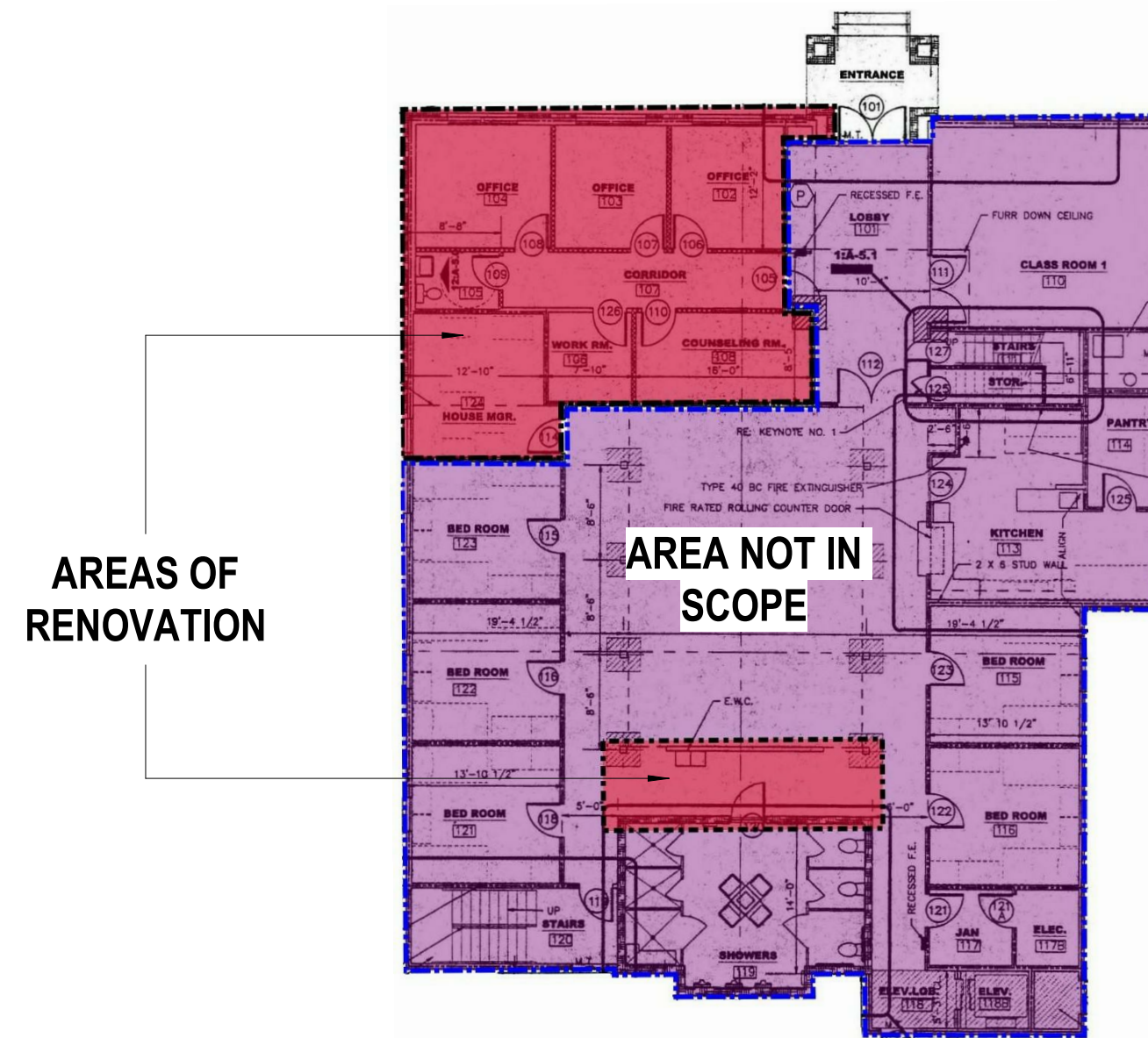


VICINITY MAP:



DRAWING INDEX			PERMIT SET 08.03.2021
SHEET NO.	SHEET NAME		
01 - GENERAL			
A-000	COVER SHEET/ CODE/ SHEET INDEX		X
A-100	EGRESS PLAN/ ACCESSIBILITY DIAGRAM INFO		X
A-101	LEVEL 1 FLOOR PLAN		X
A-102	LEVEL 2 FLOOR PLAN		X
05 - MECHANICAL			
M-101	HVAC - FIRST FLOOR PLAN		X
M-102	HVAC - SECOND FLOOR PLAN		X
M-201	HVAC - NOTES, SCHEDULES & DETAILS		X
06 - ELECTRICAL			
E-101	POWER AND LIGHTING PLANS		X
E-201	NOTES AND LEGEND		X
07 - PLUMBING			
P-101	PLUMBING - FLOOR PLAN		X
P-201	PLUMBING - SCHEDULE, NOTES, RISERS AND DETAILS		X

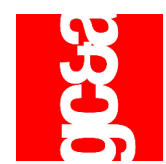
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2118 willshire boulevard, suite 1115
santa monica, california 90403
310.433.9423
courseychris@aol.com
www.courseyarchitects.com

3621 vinings slope se, suite 4440
atlanta, georgia 30339
770.432.2727
770.432.2773 fax
www.courseyarchitects.com

architecture
interior design
planning

gary b. coursey & associates - architects - inc - aia



THE EXTENSION - ISOLATION AREA - EXISTING BUILDING RENOVATION



PROJECT ADDRESS:	24 HR EMERGENCY CONTACT:	PROJECT TEAM:				
1507 CHURCH STREET EXT. MARIETTA,GA, COBB COUNTY	<u>PRIMARY:</u> TYLER DRIVER EXECUTIVE DIRECTOR, THE MEN'S EXTENSION 770-590-9075 X301 <u>TYLERDRIVER@THEEXTENSION.ORG</u>	<u>OWNER'S REPRESENTATIVE</u> TYLER DRIVER EXECUTIVE DIRECTOR, THE MEN'S EXTENSION 770-590-9075 X301 <u>TYLERDRIVER@THEEXTENSION.ORG</u>	<u>ARCHITECT OF RECORD</u> GARY B. COURSEY, FAIA GARY B. COURSEY & ASSOCIATES, ARCHITECTS 3621 VININGS SLOPE SE, SUITE 4440 ATLANTA, GA 30339 EMAIL: GARYCOURSEY@COURSEYARCHITECTS. COM PHONE: 770.432.2727 <u>POINT OF CONTACT</u> PAUL J. MONARDO, AIA, NCARB, LEED AP GARY B. COURSEY & ASSOCIATES, ARCHITECTS 3621 VININGS SLOPE SE, SUITE 4440 ATLANTA, GA 30339 EMAIL: PMONARDO@COURSEYARCHITECTS.COM PHONE: 770.432.2727	<u>COURSEY INTERIORS</u> JENNIFER WALSH, ASID GARY B. COURSEY & ASSOCIATES, ARCHITECTS 3621 VININGS SLOPE SE, SUITE 4440 ATLANTA, GA 30339 EMAIL: JWALSH@COURSEYARCHITECTS.COM PHONE: 770.432.2727 <u>POINT OF CONTACT</u> ERIKA HOGAN GARY B. COURSEY & ASSOCIATES, ARCHITECTS 3621 VININGS SLOPE SE, SUITE 4440 ATLANTA, GA 30339 EMAIL: EHOGAN@COURSEYARCHITECTS.COM PHONE: 770.432.2727	<u>MECHANICAL, ELECTRICAL, & PLUMBING</u> BOB BEACH, PE LEED AP BEACH ENGINEERING SOLUTIONS TEAM, INC. 678-665-3280 HYPERLINK "MAILTO:BBEACH@BESTENGINEERINGSOLUTIO NS.COM" <u>BBEACH@BESTENGINEERINGSOLUTIONS.COM</u>	<u>ACCESSIBILITY CONSULTANT</u> TERRY KITAY THERESA L. KITAY, ATTORNEY AT LAW P.O. BOX 579 OAK ISLAND, NC 28465 EMAIL: TKITAY@KITAYLAW.NET PHONE: 910.250.1981
PROJECT OVERVIEW:		BOB LINTAULT THE MEN'S EXTENSION PROJECT MANAGER <u>Bob.lintault@gmail.com</u>				
<u>OWNER'S REPRESENTATIVE</u> TYLER DRIVER EXECUTIVE DIRECTOR, THE MEN'S EXTENSION 770-590-9075 X301 <u>TYLERDRIVER@THEEXTENSION.ORG</u>						

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THE EXTENSION, INC. ISOLATION AREA

1507 CHURCH STREET EXT.
MARIETTA,GA, COBB COUNTY

**COVER SHEET/ CODE/
SHEET INDEX**

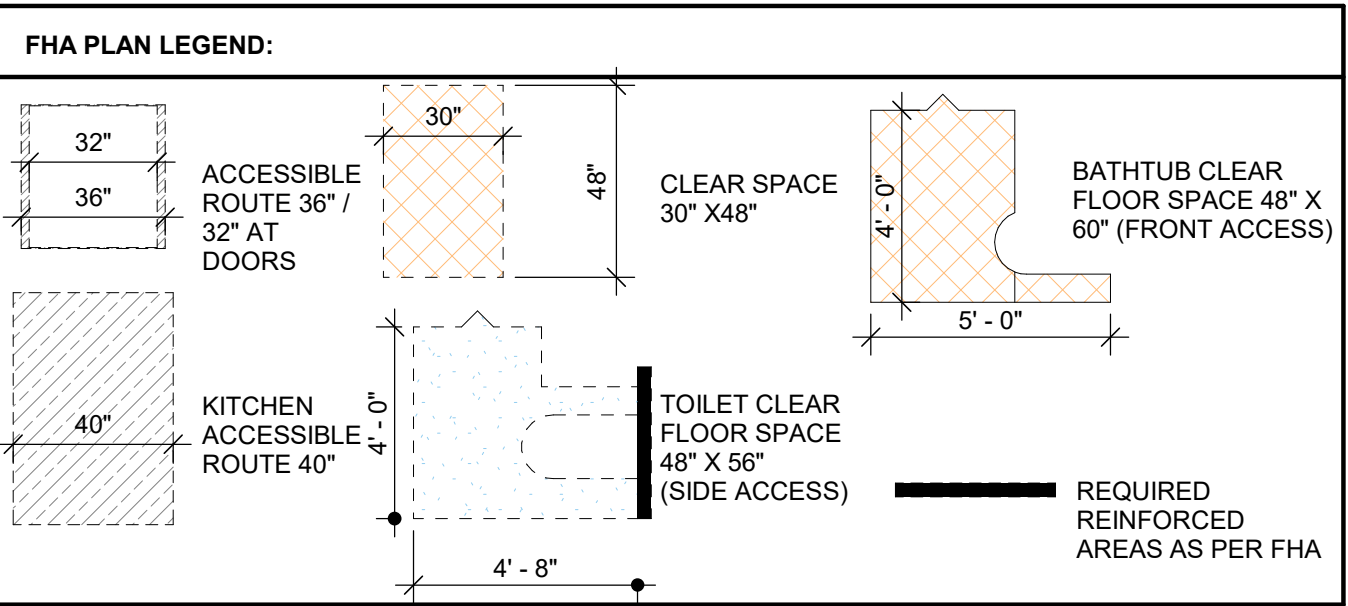
SHEET ID

A-000

GENERAL NOTES - FAIR HOUSING ACT

PROJECT SITE, BUILDINGS AND UNITS MEET OR EXCEED THE FAIR HOUSING ACCESSIBILITY GUIDELINES AS PUBLISHED IN THE FEDERAL REGISTER VOLUME 56, NUMBER 44, ON MARCH 6, 1991. THE FOLLOWING ARE ADDRESSED IN MEETING THE GUIDELINES:

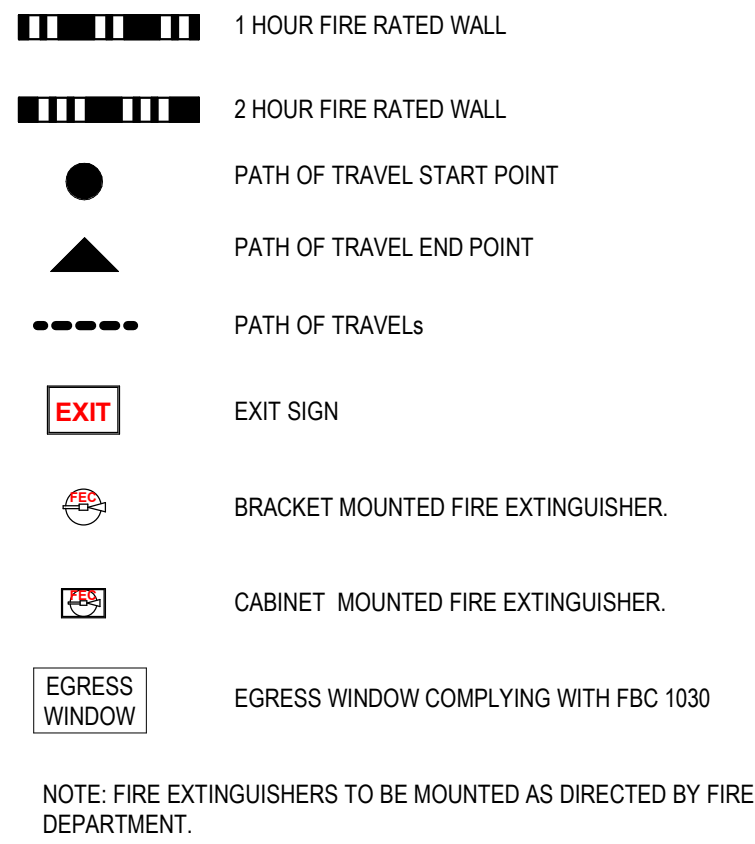
1. ACCESSIBLE ENTRANCES/ ACCESSIBLE ROUTES.
2. PUBLIC AND COMMON AREAS.
3. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTAT, AND ENVIRONMENTAL LOCATIONS.
4. GRAB BAR REINFORCEMENT LOCATIONS.
5. USABLE BATHROOMS AND KITCHENS.



FHA ACCESSIBILITY NOTES:

1. LEVER HARDWARE MUST BE INSTALLED ON ALL DOORS IN ALL UNITS
2. ENSURE ANY THRESHOLD ARE NO GREATER THAN 1/2" A.F.F.
3. KITCHEN HARDWARE FOR THE CABINETS MUST BE "D" RING STYLE HANDLES.
4. SHELIVING IN ALL CLOSETS CANNOT EXCEED 54" A.F.F.
5. ALL BATHROOMS REGARDLESS OF TYPE ARE REQUIRED TO HAVE BLOCKING FOR GRAB BARS INSTALLED.
6. ALL ENVIRONMENTAL CONTROLS WILL NEED TO BE INSTALLED AT A MAXIMUM HEIGHT OF 48".

EGRESS & FIRE PROTECTION LEGEND



BUILDING - CODE ANALYSIS:

CODE REFERENCES:

- 2018 INTERNATIONAL BUILDING CODE.
- 2018 INTERNATIONAL FIRE CODE.
- 2015 INTERNATIONAL ENERGY CONSERVATION, 6TH EDITION.
- 2018 INTERNATIONAL FUEL GAS.
- 2018 INTERNATIONAL PLUMBING CODE.
- 2018 INTERNATIONAL MECHANICAL CODE.
- 2012 INTERNATIONAL PROPERTY MAINTENANCE CODE.

NEW CONSTRUCTION TYPE: - TYPE VA

NEW OCCUPANCY CLASSIFICATION: - IBC SECTION 310.3, GROUP R-2 (RESIDENTIAL GROUP)

FIRE PROTECTION SYSTEM:

- SPRINKLERED / NFPA 13R SPRINKLER SYSTEM
- PORTABLE FIRE EXTINGUISHERS - PER IBC SEC 906.1

ACTUAL BUILDING PARAMETERS:

GROSS FLOOR AREA LV. 1 = 5,012 SF
GROSS FLOOR AREA LV. 2 = 3,370 SF
TOTAL BUILDING AREA = 8,382 SF
ACTUAL BUILDING HEIGHT = 24'-0" / 2 - STORIES
TOTAL OCCUPANTS PER FLOOR:
- LEVEL 1 = 28 OCC.
- LEVEL 2 = 17 OCC.

REQUIRED CODE PARAMETERS:
IBC SECTION 903 - ALLOWABLE BUILDING HEIGHT AND AREA:

ALLOWABLE BUILDING AREA = 12,000 SF PER STORY

ALLOWABLE BUILDING HEIGHT/ STORIES ABOVE GRADE PLANE = 60 FEET / 4 - STORIES

IBC TABLE 601 - FIRE RESISTANCE RATING REQUIREMENTS FOR STRUCTURAL BUILDING ELEMENTS:

TYPE II, A-1:

STRUCTURAL FRAME	1 HR
COLUMNS, GIRDERS, TRUSSES	1 HR
BEARING WALLS	1 HR
EXTERIOR	1 HR
INTERIOR	1 HR

- NONBEARING WALLS & PARTITIONS

INTERIOR 0 HR

- FLOOR CONSTRUCTION 1 HR

- ROOF CONSTRUCTION 1 HR

IBC TABLE 803.13 - INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (SPRINKLERED):

GROUP	EXIT ENCLOSURES	CORRIDORS	ROOMS
R-2	C	C	C
B	B	B	B

IBC TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT:

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
BUSINESS AREAS =	150 GROSS
RESIDENTIAL =	200 GROSS

IBC SECTION 1005 - MEANS OF EGRESS SIZING

SECTION 1005.3.1 - STAIRWAYS

THE CAPACITY, IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAY BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH PER OCCUPANT.

***EXCEPTION 1:** FOR OTHER THAN GROUP H AND I-2 STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAY BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 AND AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5.2.2.

SECTION 1005.3.2 - OTHER EGRESS COMPONENTS

THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT.

SECTION 1011.2 - WIDTH OF STAIRWAYS

THE MINIMUM WIDTH OF STAIRWAYS SHALL NOT BE LESS THAN 36 INCHES, WHERE SERVING A TOTAL OCCUPANT LOAD OF LESS THAN 50.

SECTION 1010.1.1 - SIZE OF DOORS

THE MINIMUM WIDTH OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE CLEAR WIDTH OF 32 INCHES.

***PROJECT NOTE:** THE DOOR CLEAR WIDTH BEING USED IS 33" FOR THE 36" DOOR. PER DOOR SCHEDULES.

IBC TABLE 1006.2.1 - MAXIMUM COMMON PATH OF EGRESS TRAVEL WITH SPRINKLERED SYSTEM (FEET):

OCCUPANCY	FEET
R-2	125
B	100

SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY:

OCCUPANCY	MAXIMUM OCCUPANT LOAD
R-2	20
B	49

IBC TABLE 1006.3.2 - MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY

OCC. LOAD PER STORY	MIN. NUMBER OF EXITS OR ACCESS TO EXITS FROM STORY
1-500	2

IBC TABLE 1017.2 - EXIT ACCESS TRAVEL DISTANCE - WITH SPRINKLERED SYSTEM (FEET):

OCCUPANCY	FEET
R-2	250
B	300

IBC TABLE 1020.1 - CORRIDOR FIRE-RESISTANCE RATING - WITH SPRINKLER SYSTEM

OCCUPANCY	HOURS
R-2	1
B	0

TABLE 1020.2 - MINIMUM CORRIDOR WIDTH

- WITH AN OCCUPANT LOAD OF LESS THAN 50, CLEAR WIDTH SHALL BE 36 INCHES.

IBC SECTION 1020.4 - DEAD-END CORRIDORS

WHERE MORE THAN ONE EXIT IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT DEAD-END CORRIDORS DO NOT EXCEED 20' IN LENGTH.

SECTION 1030.2 EMERGENCY ESCAPE AND RESCUE MINIMUM SIZE (WINDOWS MIN. SIZE)

EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET (0.53 M²).

EXCEPTION: THE MINIMUM NET CLEAR OPENING FOR GRADE-LEVEL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE 5 SQUARE FEET (0.46 M²).

1030.2.1 MINIMUM DIMENSIONS.

THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24 INCHES (610 MM). THE MINIMUM NET CLEAR OPENING WIDTH DIMENSION SHALL BE 20 INCHES (508 MM). THE NET CLEAR OPENING DIMENSIONS SHALL BE THE RESULT OF NORMAL OPERATION OF THE OPENING.

IBC SECTION 705.8 - OPENINGS

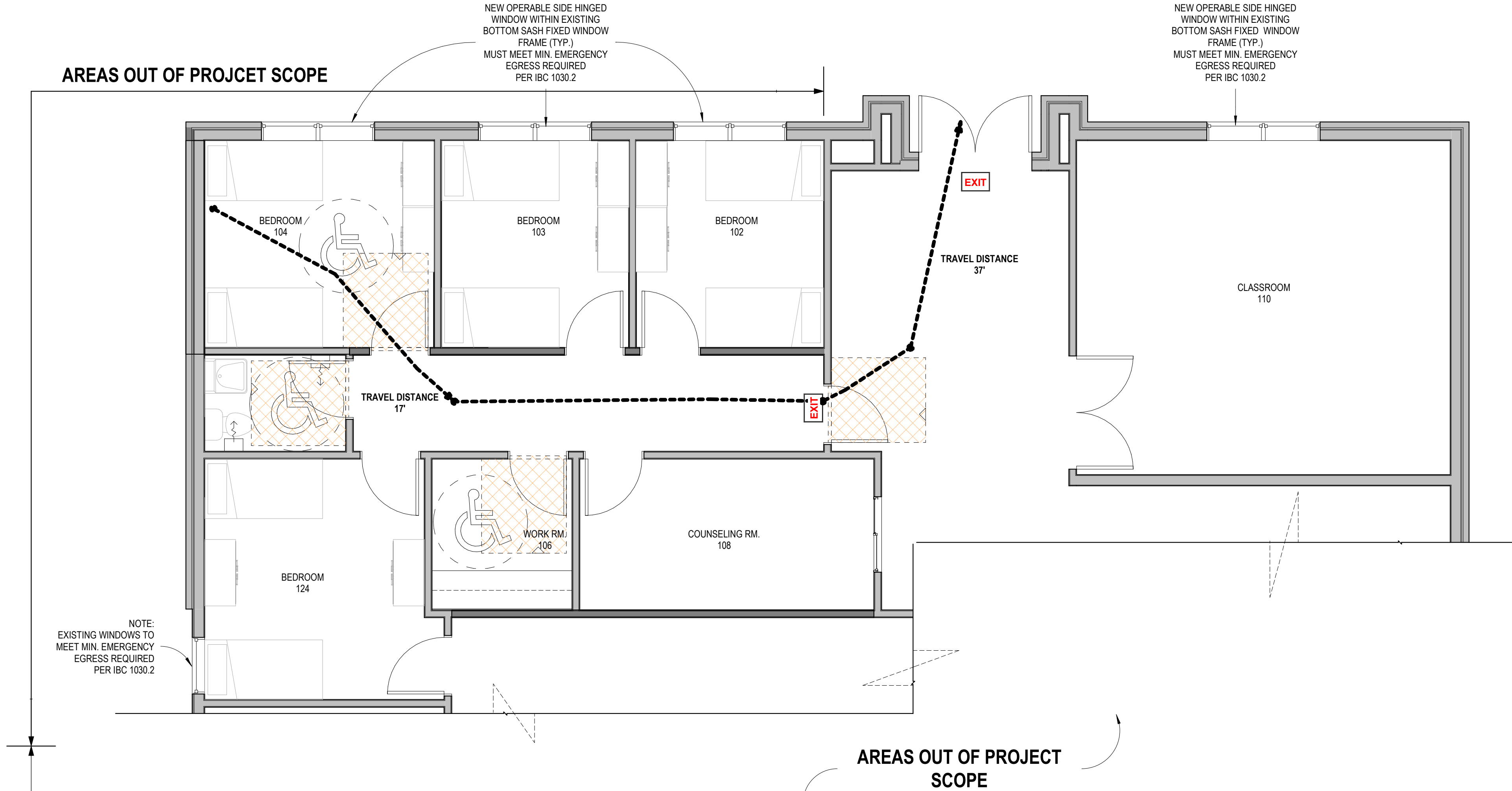
OPENINGS IN EXTERIOR WALLS SHALL COMPLY WITH SECTIONS 705.8.1 THROUGH 705.8.6.

IBC SECTION 708.3 - FIRE-RESISTANCE RATING:

FIRE PARTITIONS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR.

IBC TABLE 716.1(2) - OPENING FIRE PROTECTION ASSEMBLIES, RATINGS AND MARKINGS:

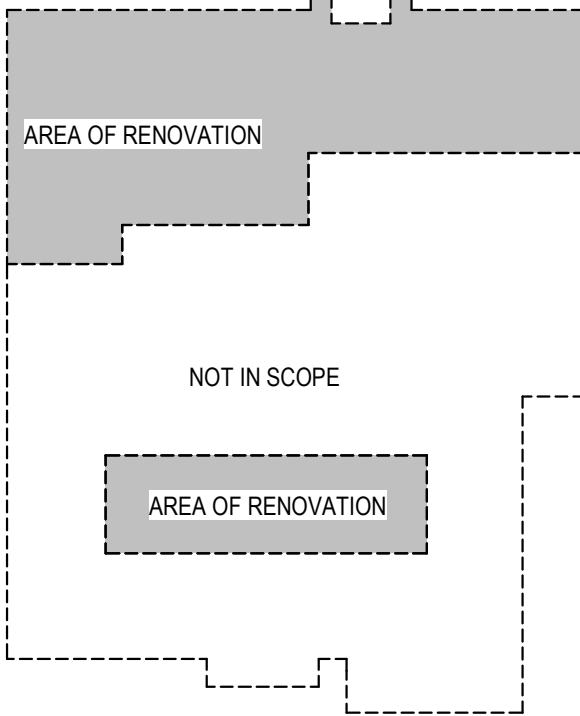
TYPE OF ASSEMBLY:	FIRE PARTITIONS: CORRIDOR WALLS.
REQUIRED RATING (HOURS):	1 HR.
FIRE-RATED GLAZING MARKING	
DOOR VISION PANEL:	20 MIN FOR CORRIDOR FIRE DOORS.



NOTE:

1. DIMENSIONS ARE APPROXIMATE BASED ON RECORD DRAWINGS AVAILABLE. CONTRACTOR TO FIELD VERIFY. AREA OF RENOVATION 1775 SF. DIMENSIONS SHOWN FROM EXISTING BUILDING DOCUMENTS TO BE FIELD VERIFIED AS NEEDED BY G.C.
2. EXISTING DEMOLISHED DOORS/HARDWARE TO BE REUSED AS POSSIBLE - PROVIDE NEW REQUIRED AT NEW LOCATIONS.

KEY PLAN - LEVEL 1:



1 EGRESS PLAN - LEVEL 1
1/4" = 1'-0"



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DESCRIPTION	
ISSUED FOR PERMIT	
SEQ.	0
sheet issue date:	07/26/2021
commission #:	2019-12
drawn by:	Author
checked by:	Checker

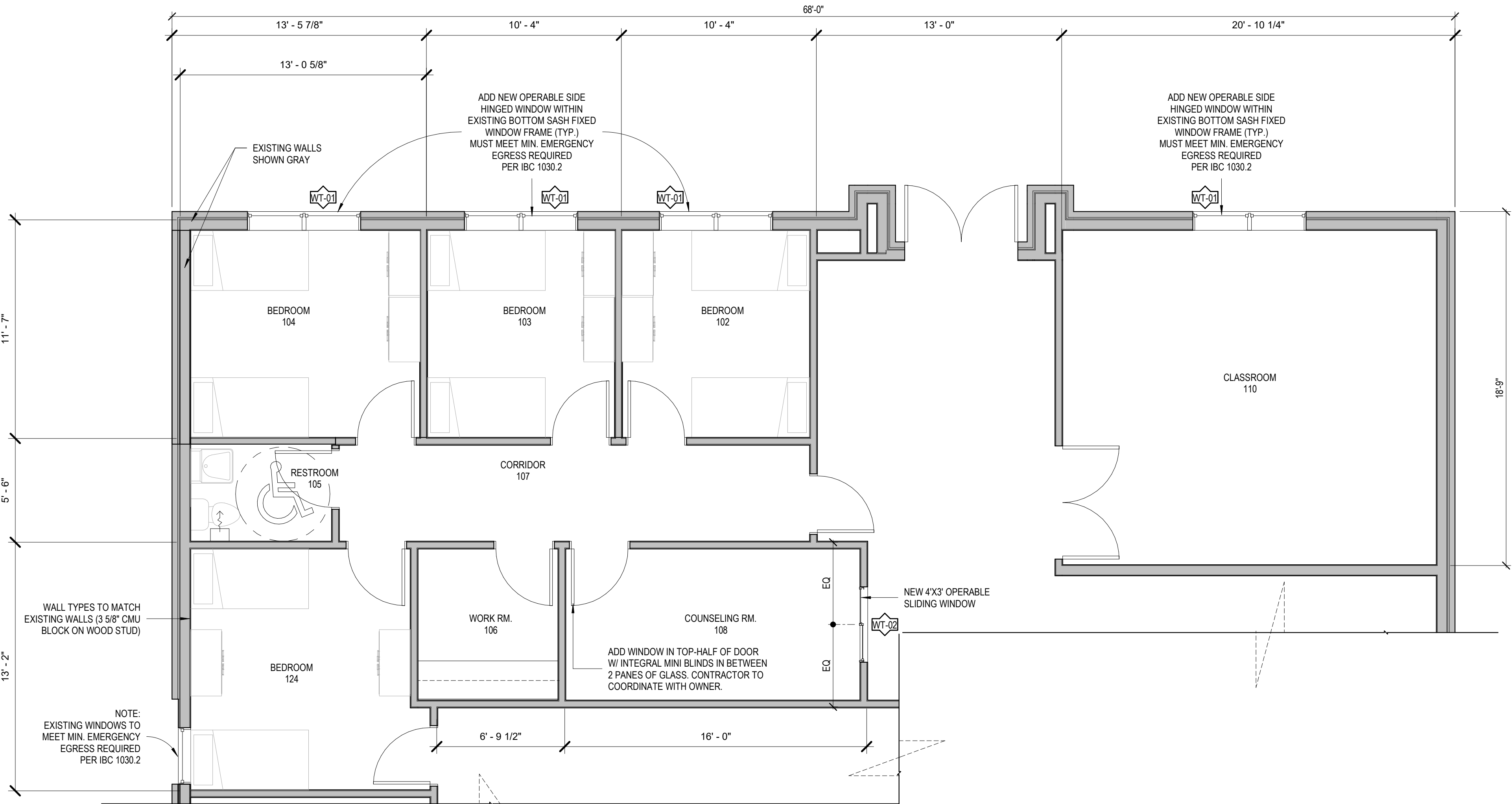
THE EXTENSION, INC. ISOLATION AREA

1507 CHURCH STREET EXT.
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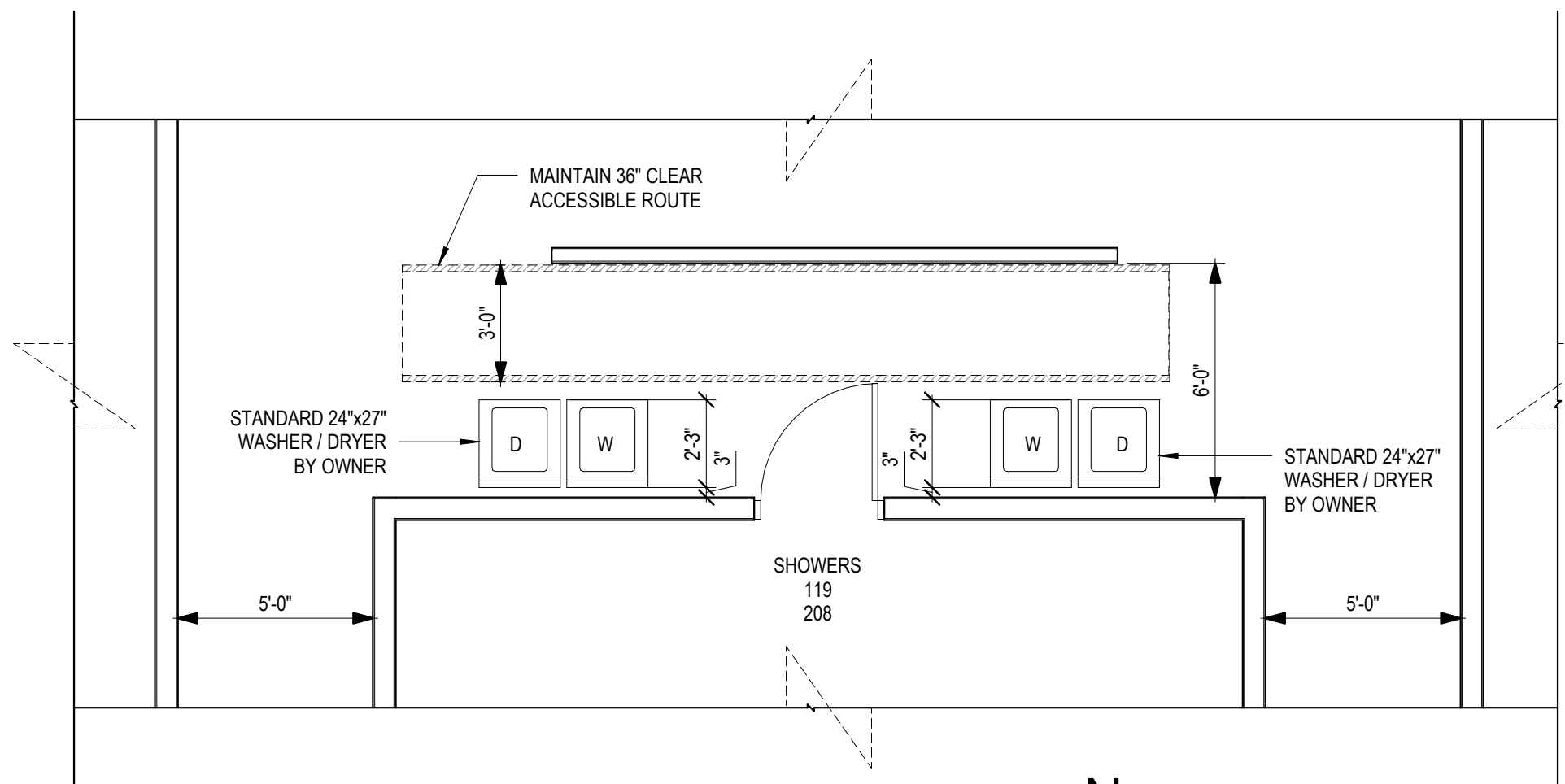
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ACCESSIBILITY
DIAGRAM INFO

SHEET ID

A-100

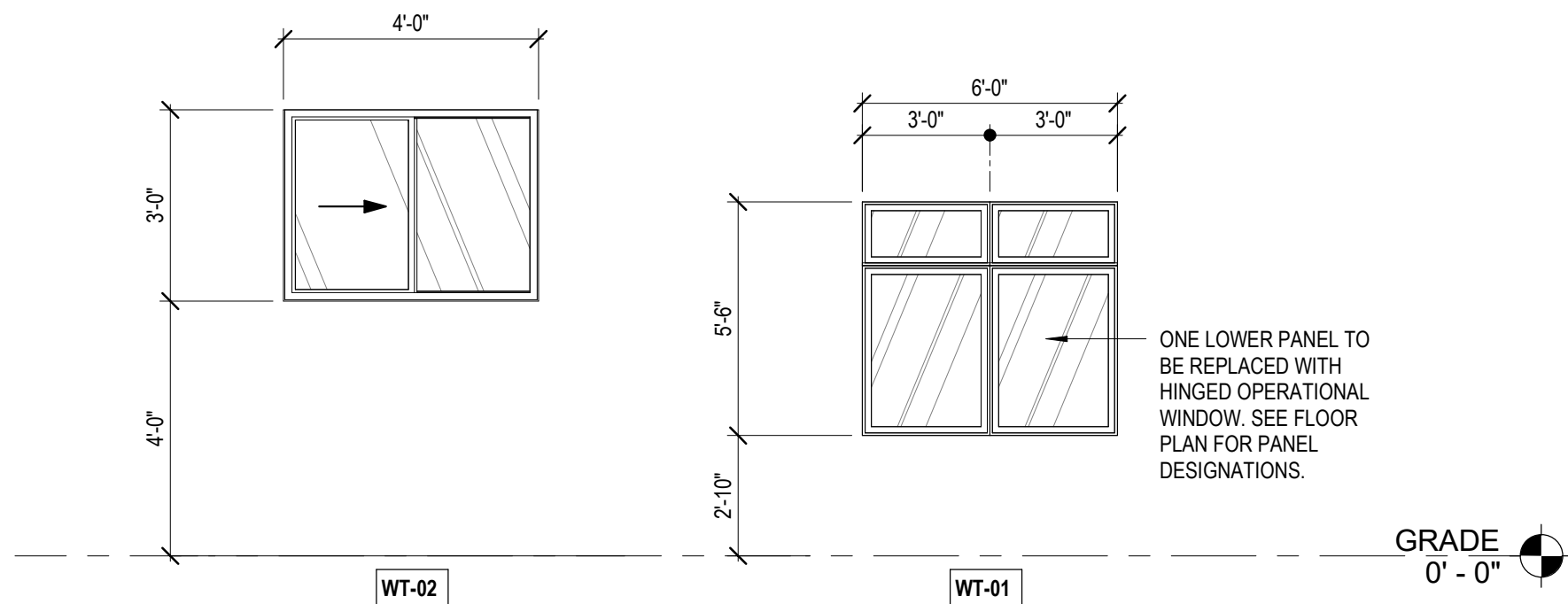


1 RENOVATED FLOOR PLAN - LEVEL 1
1/4" = 1'-0"



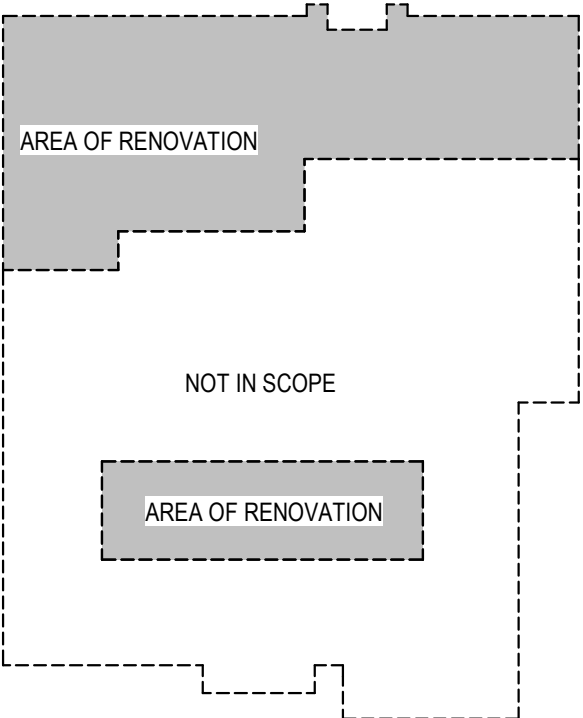
2 LAUNDRY AREA FLOOR PLAN - LEVEL 1 & 2
1/4" = 1'-0"

WINDOW SCHEDULE									
WINDOW TYPE	WIDTH (FT-IN)	HEIGHT (FT-IN)	SILL HEIGHT (FT-IN)	MATERIAL (FRAME / PANEL)	FINISH	OPERATION	WOCD	IMPACT GLASS	INSULATED GLASS
WT-01	6'-0"	5'-6"	2'-10"	METAL / GLASS	PAINT	HINGE	EGRESS PER IBC SECTION 1030.2	NO - TEMPERED	YES
WT-02	4'-0"	3'-0"	4'-0"	VINYL / GLASS	PAINT	SLIDING	N/A	NO	NO



3 WINDOW ELEVATIONS
3/8" = 1'-0"

KEY PLAN - LEVEL 1:



CONSTRUCTION PLAN GEN. NOTES

1. REFER TO ARCHITECTURAL PLANS FOR OVERALL DIMENSIONS AND PARTITION PLACEMENT
2. REFER TO FINISH SCHEDULE FOR CORNER GUARD INFORMATION IF REQUIRED
3. GENERAL CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED AT ALL WALL MOUNTED MILLWORK
4. REFER TO SCHEDULES FOR PANTRY OR BATHROOM FIXTURES
5. GENERAL CONTRACTOR SHALL PROVIDE CENTRALLY LOCATED BENCHMARKS FOR USE BY ALL TRADES
6. ALL CLOSET DOORS SHALL BE CENTERED ON CLOSET OPENING, U.O.N.
7. ALL DIMENSIONS ARE FACE OF EXTERIOR WALL (STUD) AND CENTER OF INTERIOR STUDS UNLESS OTHERWISE NOTED
8. "CLEAR" = FROM DIMENSIONS ARE FROM FACE OF WALL GYPSUM BOARD
9. CL = DIMENSION ARE FROM STUD TO STUD
10. "W-" = WALLS TYPES
11. "DT-" = DOORS TYPES
12. "WT-" = WINDOWS TYPES
13. SEE BUILDING FLOOR PLANS FOR EXTERNAL & PARTY WALL TYPES

GENERAL NOTES

1. RENOVATE EXISTING OFFICE SPACE TO SERVE AS A "QUARANTINE AREA."
2. OWNER TO PROVIDE NEW LAUNDRY SERVICES ON EACH FLOOR
3. FLAT ROOF ABOVE THIS AREA TO BE REPAIRED FOR WATER LEAKS. STRUCTURE TO BE CHECKED FOR MOLD.

NOTE:

1. DIMENSIONS ARE APPROXIMATE BASED ON RECORD DRAWINGS AVAILABLE. CONTRACTOR TO FIELD VERIFY. AREA OF RENOVATION 1775 SF DIMENSIONS SHOWN FROM EXISTING BUILDING DOCUMENTS TO BE FIELD VERIFIED AS NEEDED BY G.C.
2. EXISTING DEMOLISHED DOORS/HARDWARE TO BE REUSED AS POSSIBLE - PROVIDE NEW REQUIRED AT NEW LOCATIONS.



SEQ.	DESCRIPTION	DATE
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drawn by:	Author
checked by:	Checker

NOT TO SCALE. THIS DRAWING IS FOR INFORMATION ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE ACCURACY OF THE INFORMATION PROVIDED. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED.

THE EXTENSION, INC. ISOLATION AREA

1507 CHURCH STREET EXT.
MARIETTA, GA, COBB COUNTY

LEVEL 1 FLOOR PLAN

SHEET ID

A-101



2118 Wilshire Boulevard, Suite 1115
Santa Monica, California 90403
gary@courseyarchitects.com
774.432.2773 fax
www.courseyarchitects.com

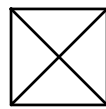
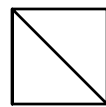
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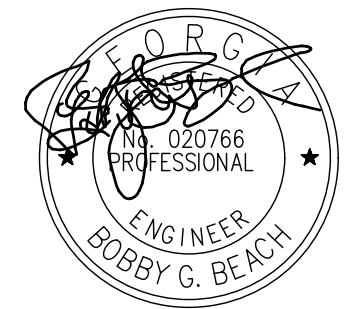
SCALE: 1/4" = 1'-0"

HVAC SYMBOLS	
	SUPPLY GRILL
	RETURN GRILL
	EXHAUST FAN
	SPIN-IN
	EXISTING THERMOSTAT
	NEW THERMOSTAT
	RELOCATED THERMOSTAT
	VOLUME DAMPER
	SIDEWALL AIR SUPPLY GRILLS
	SIDEWALL AIR TRANSFER GRILLS

- ① EXTEND 4" DRYER DUCT THROUGH ROOF AND TERMINATE WITH RAIN CAP.
- ② PROVIDE BOOSTER FAN FOR DRYER EXHAUST.

best

Beach Engineering Solutions Team
Mechanical, Electrical & Plumbing
Engineering
(678) 665-3280
Project Number: 20-354

[illegible]

sheet issue date:
07/26/21

commission #:

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1503, 1507 CHURCH STREET EXT.
MARIETTA, GA, COBB COUNTY

HVAC - FIRST FLOOR PLAN

SHEET ID

M-101



gary b. coursey & associates · architects · inc · aia

architecture
interior design
planning

3621 vinings slope se, suite 4440
atlanta, georgia 30339
770.432.2727
770.432.2773 fax
www.courseyarchitects.com

2118 wiltshire boulevard, suite 1115
santa monica, california 90403
310.433.9423
coursey@aol.com
www.courseyarchitects.com



MECHANICAL GENERAL NOTES:	
1. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VISIT PROJECT AND REVIEW EXISTING CONDITIONS. NO ADDITIONAL MONIES WILL BE AWARD FOR "UNFORESEEN PROJECT CONDITIONS". CONTRACTOR SHALL INCLUDE IN HIS BID ALL MONIES REQUIRED FOR THE EXISTING PROJECT CONDITIONS. CONTRACTOR SHALL INFORM ARCHITECT AT TIME OF BID PROJECT CONDITIONS IN WHICH HE HAS DIFFICULTY IN WORKING AROUND.	20. THE OWNER, OPERATOR, ARCHITECTURAL NOR ENGINEER ARE RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS, MEANS AND METHODS, WORK TECHNIQUES, CONSTRUCTION SEQUENCE OR PROCEDURES REQUIRED TO COMPLETE THE WORK.
2. REFER TO ALL OTHER DRAWINGS IN THIS PROJECT, INCLUDING TO BUT NOT LIMITED TO THE ARCHITECTURAL, INTERIOR DESIGN, LIGHTING DESIGN, AND ELECTRICAL AND PERFORM ALL SCOPE ITEMS IDENTIFIED WITHIN THOSE DRAWINGS AS IF THEY ARE DIRECTLY INCORPORATED INTO THE MECHANICAL SET.	21. ALL EXTERIOR WALL, AND ROOF PENETRATIONS SHALL BE SEALED WITH WATERPROOFING.
3. FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM. ANY ITEMS AND MATERIALS OBVIOUSLY NECESSARY FOR A COMPLETE WORKING SYSTEM ALTHOUGH NOT SHOWN WITHIN THESE DOCUMENTS SHALL BE PROVIDED AS PART OF THE INITIAL BID.	22. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR BARRIERS SHALL BE SEALED WITH FIREPROOFING.
4. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.	23. PROVIDE FIRE DAMPERS (FD) IN ALL FIRE RATED WALLS AS IDENTIFIED ON ARCHITECTURAL'S DRAWINGS. THE RATINGS OF THE FIRE DAMPERS SHALL MEET OR EXCEED THE RATING OF THE WALL IN WHICH IT IS INSTALLED. FIRE DAMPERS SHALL BE UL LISTED AND SHALL BE TYPE B (BLADES OUT OF THE AIR STREAM) OR TYPE C (100% FREE AREA). PROVIDE AND INSTALL DUCT MOUNTED ACCESS PANEL FOR ALL NON-ACCESSIBLE FIRE DAMPERS.
5. OBTAINING PERMIT, INCLUDING LABOR AND FEES SHALL BE PROVIDED AS PART OF THE INITIAL BID.	24. ALL ACCESS PANELS REQUIRED FOR EQUIPMENT MAINTENANCE SHALL BE FIELD COORDINATED WITH ARCHITECT. THESE DRAWINGS SHALL APPROXIMATE LOCATIONS, FINAL LOCATIONS SHALL BE COORDINATED IN THE FIELD.
6. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW FITTINGS AND OTHER SMALL ITEMS REQUIRED FOR A COMPLETE INSTALLATION. INSTALL DUCTWORK, EQUIPMENT AND CONTROLS IN A MANNER TO MINIMIZE NOISE, PROVIDE APPROPRIATE MAINTENANCE CLEARANCE IN THE SPACE ALLOCATED.	25. AT EACH BRANCH TAKEOFF, PROVIDE MANUAL VOLUME DAMPERS FOR BALANCING. FOR EACH DIFFUSER TAKEOFF, PROVIDE ADJUSTABLE SPIN-IN CONNECTION.
7. MATERIALS AND LABOR SHALL BE WARRENTED FOR ONE YEAR AFTER TAKEOVER.	26. PROVIDE DUCT LINER FOR THE FIRST TEN FEET OF SUPPLY AND THE LAST 10 FEET OF RETURN DUCTWORK FROM THE HVAC EQUIPMENT. THE REMAINING DUCTWORK SHALL BE WRAPPED WITH INSULATION.
8. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES, LATEST EDITIONS.	27. ALL THERMOSTATS SHALL BE PROGRAMMABLE AND HAVE A 4 DEGREE DEADBAND.
9. PRIOR TO ORDERING ANY EQUIPMENT, THIS CONTRACTOR SHALL PROVIDE COORDINATION TO THE ELECTRICAL SUBCONTRACTOR AND STRUCTURAL REQUIREMENTS TO THE GENERAL CONTRACTOR. ANY COSTS DIFFERENCES WILL BE WORKED THROUGH THE GENERAL CONTRACTOR AT THIS TIME. PROVIDE TO THE ELECTRICAL SUBCONTRACTOR THE PHASE, AMPERAGE AND VOLTAGE OR EACH PIECE OF EQUIPMENT PRIOR TO ORDERING.	28. INSTALL SMOKE DETECTOR IN THE SUPPLY AIR SYSTEM FOR ALL UNITS WITH CAPACITY GREATER THAN 2000 CFM. THE SMOKE DETECTOR SHALL BE INSTALLED DOWNSTREAM OF ANY FILTERS, FAN MOTOTS, OUTDOOR AIR CONNECTIONS AND UPSTREAM OF ANY BRANCH CONNECTIONS.
10. CONTRACTOR SHALL REFER TO THE ELECTRICAL DRAWINGS, LIGHTING DESIGN DRAWINGS AND THE REFLECTED CEILING PLAN (RCP) WHEN INSTALLING THE CEILING DIFFUSERS AND RETURN GRILLS.	29. ALL MATERIAL INSTALLED WITHIN A RETURN AIR PLENUM SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.
11. COORDINATE WITH THE ELECTRICAL SUBCONTRACTOR IN REGARDS TO DISCONNECTS, BREAKERS, POWER WRING, MOTOR CONTROL DEVICES, MECHANICAL CONTRACTOR SHALL PROVIDE STARTERS, TRANSFORMERS, ETC AND COORDINATE THE INSTALLATION WITH THE ELECTRICAL SUBCONTRACTOR.	30. ALL WRING INSTALLED WITHIN THE PLENUM SHALL BE PLENUM RATED OR INSTALLED WITHIN CONDUNIT.
12. PROVIDE UL LISTED, HEAVY DUTY FIBERGLAS CONNECTOR AT FAN, AIRHANDLERS, FAN COIL UNITS, ROOFTOP UNITS AND OTHER MECHANICAL EQUIPMENT WHERE THEY CONNECT TO SHEET METAL DUCTWORK. THE FIBERGLAS CONNECTOR SHALL BE INSTALLED WITH APPROPRIATE LENGTH TO ALLOW FOR VIBRATION AND NOISE TRANSMISSION.	31. ALL EQUIPMENT INSTALLED ABOVE THE CEILING SHALL BE ACCESSIBLE. CONTRACTOR SHALL SUPPLY ACESSES PANELS IN CEILING OR WALL AND SHALL COORDINATE WITH ARCHITECT FOR PROPER LOCATION. ACCESS PANELS IN CEILING SHALL BE A MINIMUM OF 24"x24" WITH HINGES. ACCESS PANELS SHALL HAVE SAME FIRE RATING AS CEILING IN WHICH THEY ARE INSTALLED.
13. DUCTWORK SHALL BE GALVANIZED SHEET METAL IN ACCORDANCE WITH SMACNA GUIDELINES.	32. EACH PIECE OF EQUIPMENT SHALL BE PERMANENTLY LABELED WITH A NAMEPLATE OF SUFFICIENT SIZE TO CLEARLY INDICATE THE EQUIPMENT DESIGNATION IN ACCORDANCE WITH THE DRAWINGS (IE PU1-1, RTU-1, ETC.). NAMEPLATES TO BE IBAKED ENAMEL OR ALUMINUM WITH STAMPED LETTERS.
14. ROUND FLEXIBLE CONNECTORS SHALL BE PROVIDED BETWEEN MAIN DUCT AND DIFFUSERS. PROVIDE THERMAFLEX PRO SERIES. UTILIZE SPIN-IN CONNECTORS WITH SCOOP AND ADJUSTABLE DAMPER FOR AIR CONTROL.	33. EACH DUCT OR PIPE WHICH PENETRATES ANY FIRE OR SMOKE PARTITION SHALL HAVE THE WALL OPENING SEALED WITH HILTI FIRE STOP TO PREVENT THE SPREAD OF SMOKE.
15. FLEXIBLE DUCTWORK SHALL BE INSTALLED FREE OF KINKS AND SHALL BE LIMITED TO 8'-0" IN LENGTH. DIAMETER SHALL BE THE SAME AS THE DIFFUSER NECK.	34. ANY EXISTING WALL, FLOOR, OR CEILING SURFACE DISTURBED DURING THE COURSE OF CONSTRUCTION, SHALL BE REPAIRED TO LIKE NEW OR PREVIOUS CONDITION TO THE SATISFACTION OF THE ARCHITECT.
16. ALL PORTIONS OF DUCTWORK VISIBLE THROUGH DIFFUSER AND RETURN GRILL OPENINGS SHALL BE PAINTED FLAT BLACK. ALL PORTIONS EXPOSED IN AREAS WITHOUT CEILING SHALL BE PAINTED PER THE ARCHITECTURAL DRAWINGS.	35. RECORD DRAWINGS: THE CONTRACTOR SHALL MAINTAIN ON A DAILY BASIS AT THE PROJECT SITE A COMPLETE SET OF "RECORD DRAWINGS", REFLECTING AN ACCURATE DIMENSIONAL RECORD OF ALL BURIED OR CONCEALED WORK. THE "RECORD DRAWINGS" SHALL BE MARKED TO SHOW THE PRECISE LOCATION OF CONCEALED WORK, AND EQUIPMENT INCLUDING CONCEALED OR EMBEDDED PIPING AND VALVES AND ALL CHANGES AND DEVIATIONS FROM THE CONTRACT DOCUMENTS. THIS REQUIREMENT SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES WORK WITHOUT APPROVAL FROM THE ARCHITECT.
17. CONTRACTOR SHALL FIELD VERIFY SPACE REQUIREMENTS FOR DUCTWORK PRIOR TO MANUFACTURING. ADJUSTMENTS TO DUCT SIZES IS ACCEPTABLE AS LONG AS THE FOLLOWING FRICTION FACTORS ARE MAINTAINED: SUPPLY: 0.08"/100FT RETURN: 0.06"/100FT.	36. UPON THE COMPLETION OF THE HVAC SYSTEM INSTALLATION, PROVIDE A COMPLETE TEST AND BALANCE. THE TEST AND BALANCE SHALL MEASURE AIR FLOWS FOR EACH PIECE OF EQUIPMENT, DIFFUSER AND RETURN GRILL. SUBMIT TO ARCHITECT TEST AND BALANCE PLAN THREE DAYS PRIOR TO INTENDED START DATE.
18. ALL THERMOSTATS UNLESS OTHERWISE NOTED SHALL BE INSTALLED AT THE SAME HEIGHT AS THE EXISTING THERMOSTATS.	
19. ALL DUCT DIMENSIONS SHOWN IN THIS SET REFERS TO CLEAR INSIDE DIMENSION. IF DUCTWORK IS LINED, INTERIOR SHEET METAL SIZE SHALL BE INCREASED TO ACCOUNT FOR THE LINEAR THICKNESS.	

FAN SCHEDULE							
MARK	CFM	S.P. WG	HP	TYPE	BASIS OF DESIGN	LOCATION/SERVICE	NOTES
FF-1	40	0.1	85 WATTS	DIRECT DRIVE	CFM DVK100B-C	LAUNDRY	①
FF-2	40	0.1	85 WATTS	DIRECT DRIVE	CFM DVK100B-C	LAUNDRY	①

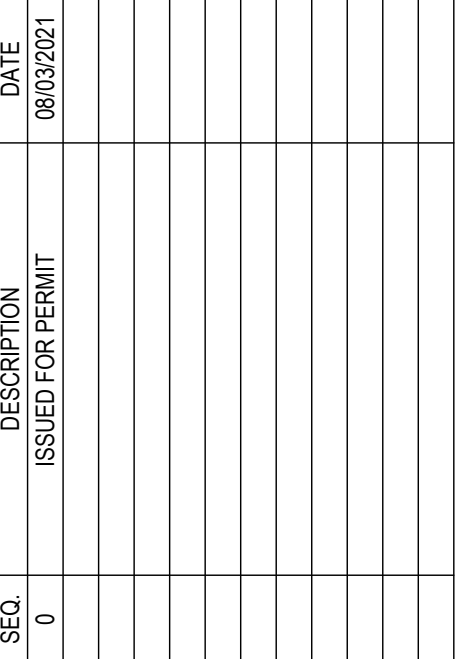
① MOUNT MINIMUM 15 LINEAR FEET FROM DRYER. FAN TO RUN DURING DRYER OPERATION.



best Beach Engineering Solutions Team
 Mechanical, Electrical & Plumbing
 Engineering
 (678) 665-3280
 Project Number: 20-354

SHEET ID
M-201

M-201



1503, 1507 CHURCH STREET EXT.
MARIETTA, GA, COBB COUNTY

gary b. coursey & associates - architects - inc - aia

3621 vinings slope se, suite 4440
atlanta, georgia 30339
770.432.2727
770.432.2773 fax

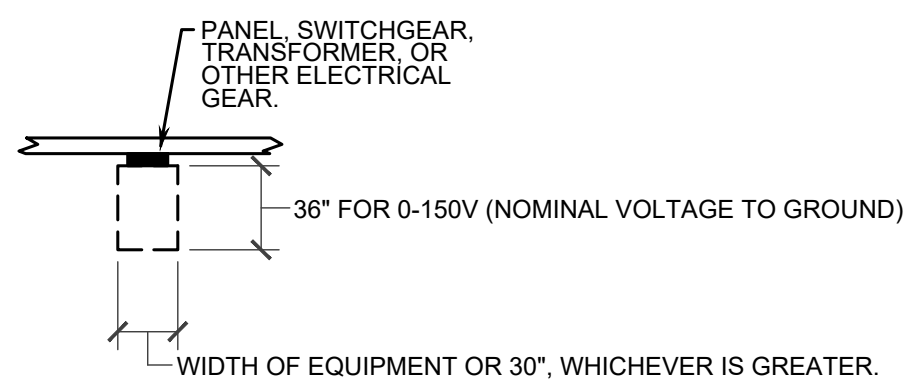
2118 wiltshire boulevard, suite 1115
santa monica, california 90403
310.433.9423
courseychris@aol.com
www.courseyarchitects.com



3Ø PANELBOARD - M1 (EXISTING)									
MAIN: 400A MLO			SERVICE: 208Y/120V, 3P, 4W			MOUNTING: SURFACE		ENCLOSURE: NEMA 1	
FED BY: D			TOTAL DEMAND AMPS: 324.04 A						
CKT #	AMP/ POLE	CIRCUIT DESCRIPTION	CONNECTED LOAD			CIRCUIT DESCRIPTION	AMP/ POLE	CKT #	
			KVA	PH	KVA				
1	30/3	A/C (EXIST)	2.41	A	2.88	ELEVATOR (EXIST)	30/3	2	
3			2.41	B	2.88			4	
5			2.41	C	2.88			6	
7	30/3	A/C (EXIST)	2.41	A	2.12	A/C (EXIST)	30/2	8	
9			2.41	B	2.12			10	
11			2.41	C				12	
13	20/3	A/C (EXIST)	1.65	A	2.04	A/C (EXIST)	30/2	14	
15			1.65	B	2.04			16	
17			1.65	C				18	
19	40/2	BOOSTER HEATER (EXIST)	3.33	A	1.00	DISHWASHER (EXIST)	20/1	20	
21			3.33	B				22	
23	30/1	KITCHEN FANS (EXIST)	2.00	C	2.00	KITCHEN FANS (EXIST)	30/1	24	
25	20/1	KITCHEN GFI (EXIST)	0.90	A	0.15	BATH FAN (EXIST)	20/1	26	
27	20/1	REF (EXIST)	0.50	B	1.00	FREEZER (EXIST)	20/1	28	
29	20/1	FURNACE (EXIST)	1.00	C	0.50	BATH FAN (EXIST)	20/1	30	
31	20/1	FURNACE (EXIST)	1.00	A	1.00	FURNACE (EXIST)	20/1	32	
33	20/1	FURNACE (EXIST)	1.00	B	1.00	FURNACE (EXIST)	20/1	34	
35	20/1	(EXIST)		C		SPARE (EXIST)	20/1	36	
37	100/3*	3Ø PANELBOARD - B1	10.50	A		SPARE (EXIST)	20/2	38	
39			9.00	B				40	
41			6.50	C				42	
-			10.38	A					
-	200/3	3Ø PANELBOARD - A1 (EXISTING)	11.30	B					
-			11.20	C					
-									
LIGHTING: 13.00			RECEPTACLES: 17.28			1Ø MOTORS: 4.65		3Ø MOTORS: 8.65	
A/C: 32.74			HEATING: 6.66			WATER HEATER:		MISC CONTINUOUS:	
MISC NON-CONTINUOUS: 29.50			KITCHEN: 2.50			DWELLING:		GUEST:	
TOTAL CONNECTED LOAD (A: 41.77, B: 40.64, C: 32.55): 114.97 KVA						TOTAL DEMAND LOAD: 116.74 KVA			
NOTES:									
*VERIFY EXISTING CB IS UNUSED. UTILIZE SPARES IF NECESSARY. CKT # 37,39,41									

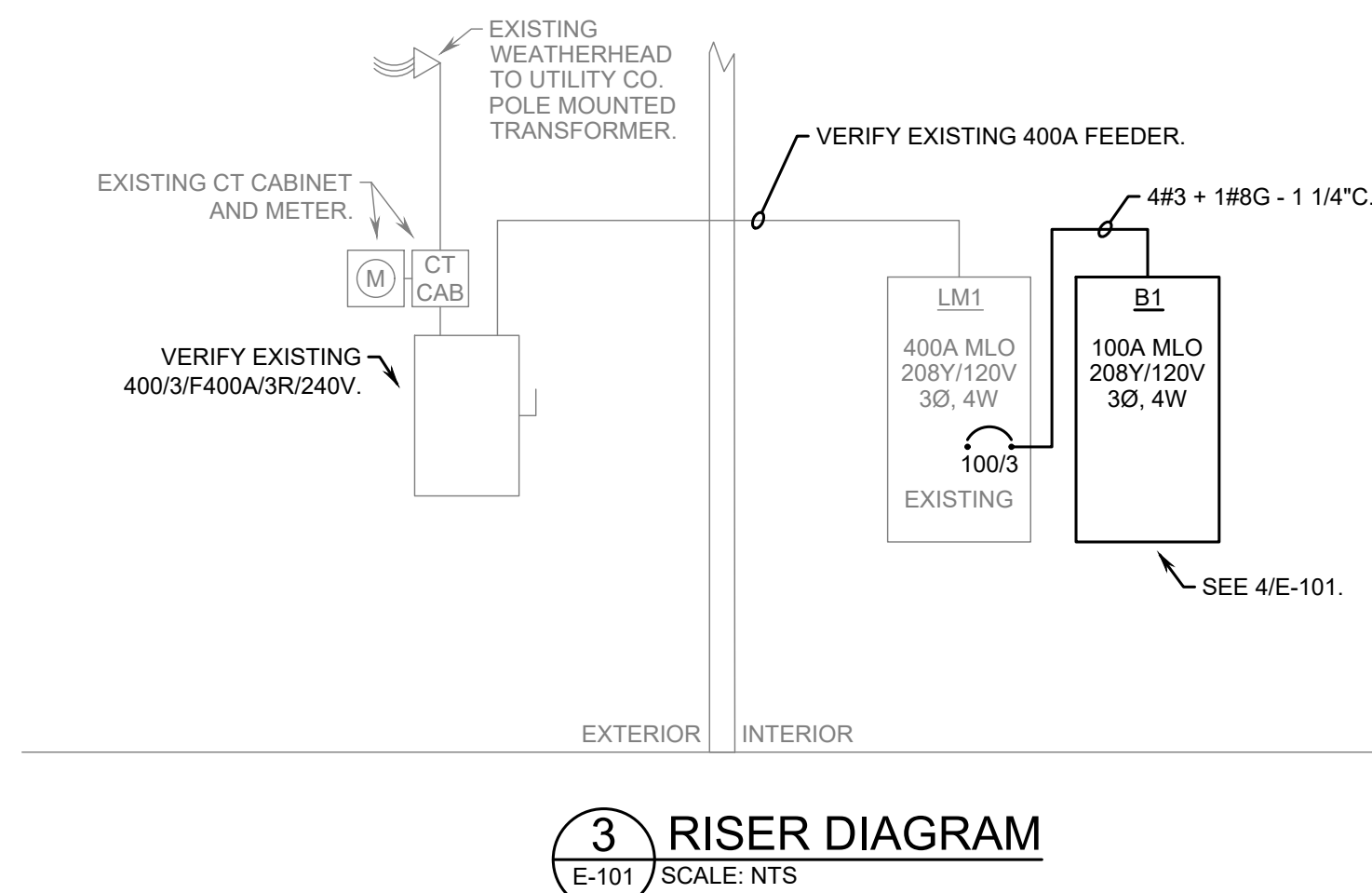
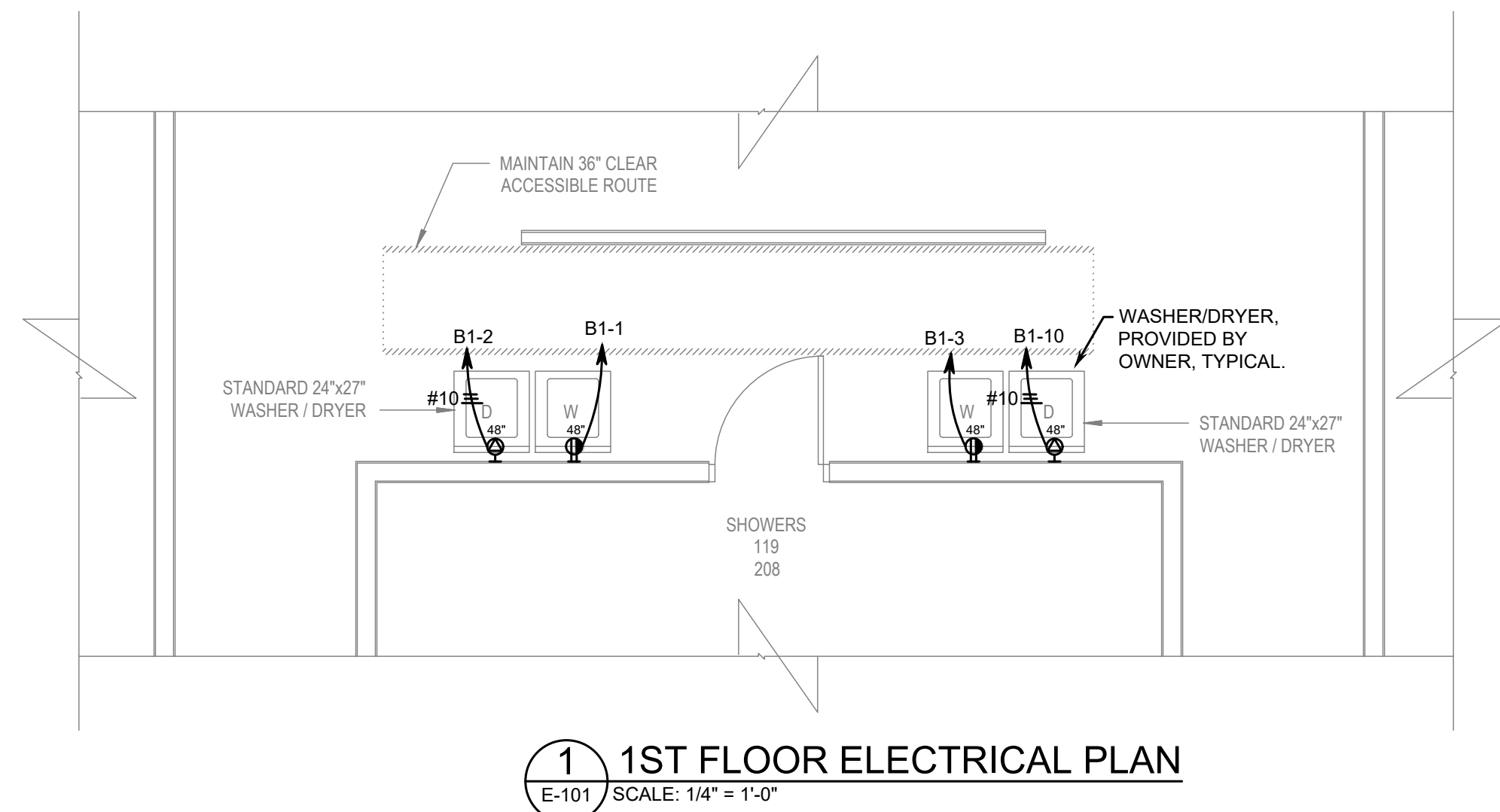
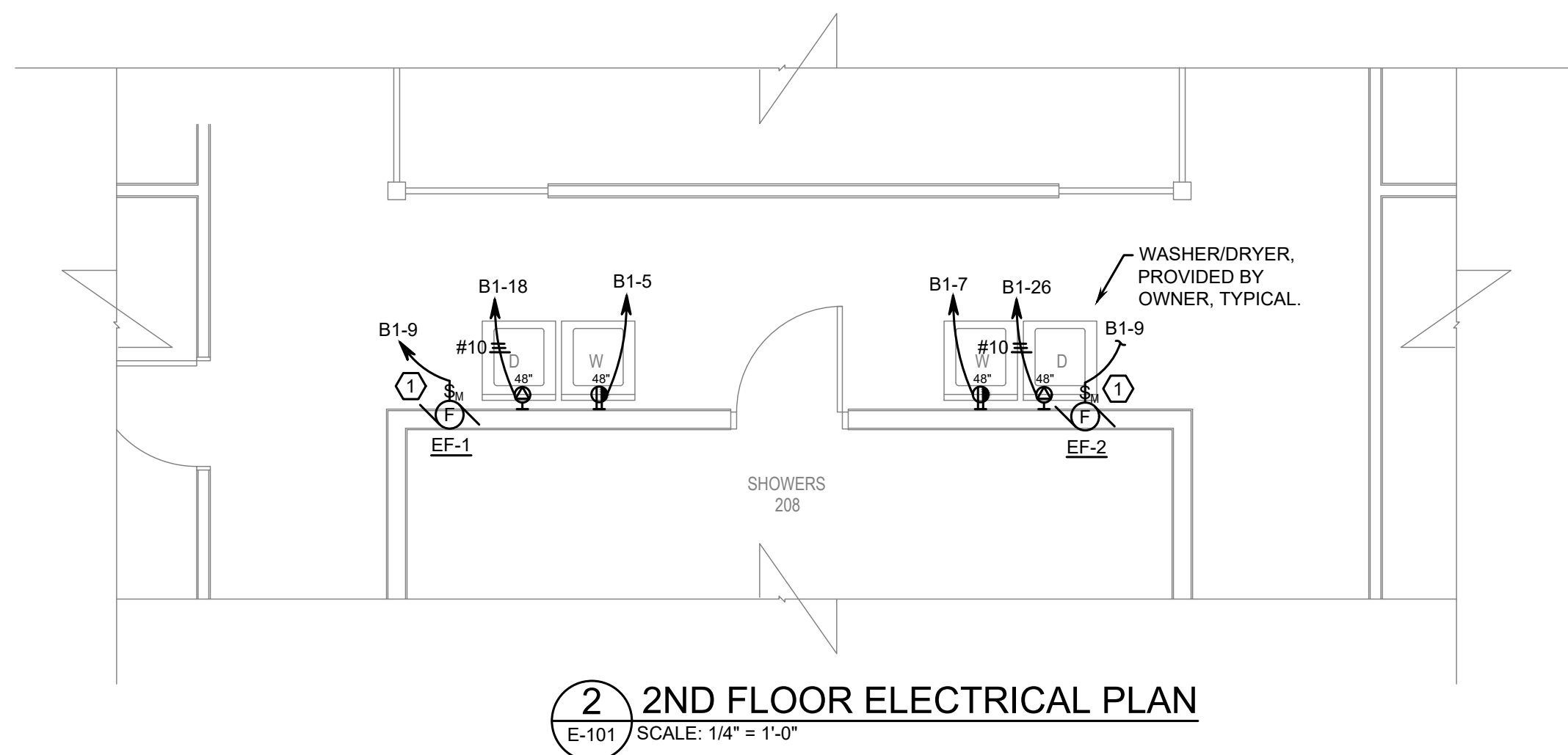
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NEW LOAD STUDY	
LOAD TYPE	LOAD (KVA)
LIGHTING	0.00
RECEPTACLES	0.00
1Ø MOTORS	0.00
3Ø MOTORS	0.00
A/C	0.00
HEATING	0.00
WATER HEATER	0.00
MISC CONTINUOUS	0.00
MISC NON-CONTINUOUS	26.00
KITCHEN	0.00
DWELLING	0.00
GUEST	0.00
TOTAL LOAD	26.00



4 ELECTRICAL EQUIPMENT E-101 CLEARANCE DETAIL

NOTES:
1. HEIGHT OF WORKING SPACE SHALL BE CLEAR AND EXTEND FROM THE GRADE TO THE HEIGHT OF 6'-6".
2. CLEARANCE SPACE SHALL NOT BE USED FOR STORAGE.
3. EQUIPMENT SHALL BE LOCATED AT LEAST 18" FROM THE EQUIPMENT EXTENDING FROM THE FLOOR TO THE HEIGHT OF 6' ABOVE THE EQUIPMENT OR STRUCTURAL CEILING WHICHEVER IS LOWER. SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAKS, OR OBSTRUCTIONS TO THE ELECTRICAL INSTALLATION. FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.



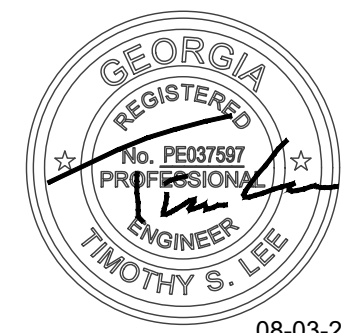
KEY NOTES

1	COORDINATE LOCATION AND INSTALLATION REQUIREMENTS OF MECHANICAL/PLUMBING DEVICE ELECTRICAL VALUES BASED ON TYPICAL SIZES. DRYER FAN TO BE INTERLOCKED WITH DRYER.
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POWER AND LIGHTING PLANS

SHEET ID

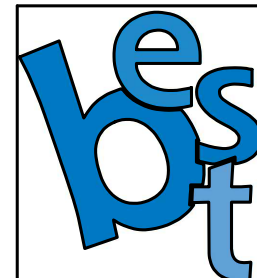
E-101



sheet issue date:	SEQ.	DESCRIPTION	DATE
8/02/2021	0	ISSUED FOR PERMIT	08/03/2021
commission #:			
2019-12			
drawn by:			
TSL			
checked by:			
TSL			

THE EXTENSION, INC. ISOLATION AREA

1507 CHURCH STREET EXT.
MARIETTA, GA, COBB COUNTY



Beach Engineering Solutions Team
Mechanical, Electrical & Plumbing
Engineering
(678) 665-3280
Project Number: 20-354

ELECTRICAL LEGEND

	CONDUIT AND WIRE. CONCEALED IN CEILING, CAVITY, OR WALL IN FINISHED AREAS. EXPOSED IN UNFINISHED AREAS.
	CONDUIT AND WIRE. CONCEALED IN SLAB OR UNDERGROUND.
	CIRCUIT HOMERUN TO DESIGNATED PANEL AND CIRCUIT NUMBER.
	SHORT TICK LINE INDICATE PHASE CONDUCTOR(S). LONG TICK LINE INDICATES NEUTRAL CONDUCTOR(S). HALF-ARROW TICK LINE INDICATES GROUND CONDUCTOR(S). ADDITIONAL GROUND CONDUCTOR (NOT SHOWN) SHALL BE PROVIDED IN PVC CONDUIT. PHASE AND NEUTRAL WIRE SIZE IS #12 UNLESS NOTED OTHERWISE AS SHOWN. GROUND AND CONDUIT SIZED PER NEC.
	CONDUIT UP/DOWN.
	GROUND.
	TELEPHONE CONDUIT HOMERUN TO TELEPHONE CABINET (IF PRESENT) OR TELEPHONE SERVICE DEMARCATION POINT.
	MOTORS: FRACTIONAL HORSEPOWER OR HORSEPOWER AS SHOWN.
	UTILITY COMPANY METER.
	DISCONNECT SWITCHES: NON-FUSED AND FUSED. DISCONNECTS ARE 30/2/NF/1/240V UNO. NOTATION AS FOLLOWS: ENCLOSURE RATING/POLES/FUSE RATING/NEMA RATING/VOLTAGE RATING.
	PANELBOARD: SURFACE MOUNTED AND FLUSH MOUNTED.
	3/4" FIRE-RATED PLYWOOD TELEPHONE BACKBOARD WITH #6 GROUND CONDUCTOR TO BUILDING STEEL.
	SWITCHES, 20A, 120/277V, WALL MOUNTED 44" AFF UNO: SINGLE POLE, 2-POLE, 3-WAY, AND 4-WAY.
	SWITCHES, 20A, 120/277V, WALL MOUNTED 44" AFF UNO: OCCUPANCY SENSOR, VACANCY SENSOR, MOTOR RATED, AND KEYED.
	DIMMER SWITCH, 2000W, 120/277V, 44" AFF UNO.
	OCCUPANCY SENSOR, VACANCY SENSOR, DAYLIGHT SENSOR 120/277V, CEILING MOUNTED.
	CEILING FAN OR HVLS FAN.
	DUPLEX RECEPTACLE, 15A 125V, WALL MOUNTED 18" AFF UNO.
	DEDICATED DUPLEX RECEPTACLE, 20A 125V, WALL MOUNTED 18" AFF UNO.
	QUADRUPLEX RECEPTACLE, 15A 125V, WALL MOUNTED 18" AFF UNO.
	SPECIAL RECEPTACLE, COORDINATE WITH EQUIPMENT, WALL MOUNTED 18" AFF UNO.
	LOW VOLTAGE OUTLETS, WALL MOUNTED 18" AFF UNO: DATA, TELEPHONE, AND COMBINATION TELEPHONE/DATA OUTLET.
	POWER JUNCTION BOX, WALL MOUNTED.
	TELE/DATA JUNCTION BOX. WALL MOUNTED.
	TELEVISION OUTLET, WALL MOUNTED 18" AFF UNO.
	DUPLEX RECEPTACLE, 15A 125V, CEILING MOUNTED.
	DEDICATED DUPLEX RECEPTACLE, 20A 125V, CEILING MOUNTED.
	QUADRUPLEX RECEPTACLE, 15A 125V, CEILING MOUNTED.
	SPECIAL RECEPTACLE, COORDINATE WITH EQUIPMENT, CEILING MOUNTED.
	LOW VOLTAGE OUTLETS, CEILING MOUNTED: DATA, TELEPHONE, AND COMBINATION TELEPHONE/DATA OUTLET.
	POWER JUNCTION BOX, CEILING MOUNTED.
	LOW VOLTAGE JUNCTION BOX, CEILING MOUNTED.
	DUPLEX RECEPTACLE IN FLUSH FLOOR BOX, 15A 125V.
	DEDICATED DUPLEX RECEPTACLE IN FLUSH FLOOR BOX, 20A 125V.
	QUADRUPLEX RECEPTACLE IN FLUSH FLOOR BOX, 20A 125V.
	SPECIAL RECEPTACLE IN FLUSH FLOOR BOX, COORDINATE WITH EQUIPMENT.
	FLUSH FLOOR BOXES: DATA, TELEPHONE, AND COMBINATION TELEPHONE/DATA OUTLET.
	POWER JUNCTION BOX, FLOOR MOUNTED.
	TELE/DATA JUNCTION BOX, FLOOR MOUNTED.
	TV JUNCTION BOX, FLOOR MOUNTED.
	2-CHANNEL POWER AND TELE/DATA POWER POLE.
	SECURITY CAMERA.
	POWER PLUGMOLD, 2-CHANNEL IF TELE/DATA IS REQUIRED.
	SPEAKERS: WALL MOUNTED AND CEILING MOUNETD.
	CARD READER, WALL MOUNTED 44" AFF UNO.
	DOOR MAGLOCK. PROVIDE 120V POWER AS NECESSARY. CONNECT TO NEAREST RECEPTACLE CIRCUIT.
	PUSH BUTTON, WALL MOUNTED 44" AFF UNO.
	DOORBELL, WALL MOUNTED 44" AFF UNO AND DOORBELL CHIME, WALL MOUNTED 80" AFF UNO.
	JUNCTION BOXES FOR FURNITURE, WALL MOUNTED: POWER AND TELE/DATA.
	JUNCTION BOXES FOR FURNITURE, CEILING MOUNTED: POWER AND TELE/DATA.
	FURNITURE FLUSH FLOOR BOXES: POWER AND TELE/DATA.
	DOCK LEVELER EQUIPMENT. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR TO CENTER OF DEVICE
AFG	ABOVE FINISHED GRADE TO CENTER OF DEVICE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ARCH	ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
CIL	CENTERLINE
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CBB	CABLE TELEVISION BACKBOARD
CKT	CIRCUIT
COL	COLUMN
COND	CONDUIT
CT	CURRENT TRANSFORMER
CTRLS	CONTROLS
CU	COPPER
D	DEDICATED
DN	DOWN
DWG	DRAWING
E	EXISTING DEVICE
EF	EXHAUST FAN
F	FUSED
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
G/GND	GROUND
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
H	HOSPITAL GRADE DEVICE
HOA	HAND-OFF-AUTOMATIC
HOR	HORIZONTALLY MOUNTED.
HP	HORSEPOWER
HS	HALF SWITCHED
IG	ISOLATED GROUND
KVA	KILOVOLT-AMPERE
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MLO	MAIN LUG ONLY
MOD	MOTOR OPERATED DAMPER
MTR	MOTOR
N	NEW DEVICE
NEC	NATIONAL ELECTRICAL CODE
NF	NONFUSED
NL	NIGHT LIGHT
NRC	NEAREST RECEPTACLE CIRCUIT
NTS	NOT TO SCALE
PIV	POST INDICATOR VALVE
R	RELOCATED DEVICE
RTU	ROOFTOP UNIT
TBB	TELEPHONE BACKBOARD
TELE	TELEPHONE
TL	TWISTLOCK
TR	TAMPER-RESISTANT
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
WH	WATER HEATER
WP	WEATHERPROOF

ELECTRICAL GENERAL NOTES

1.	ALL WORK SHALL BE IN ACCORDANCE WITH ALL BUILDING CODES, REGULATIONS, ORDINANCES, LAWS, AND THE NFPA 70, NATIONAL ELECTRICAL CODE (NEC) IN EFFECT.
2.	ALL WORK SHALL BE PERFORMED IN A NEAT AND FIRST-CLASS WORKMANLIKE MANNER.
3.	BEFORE SUBMITTING BID, THE SITE SHALL BE VISITED AND EXISTING CONDITIONS EXAMINED BY THE CONTRACTOR. ANY CONFLICTS THAT WILL PREVENT THE WORK FROM BEING COMPLETED ACCORDING TO THE INTENT AND SPECIFICATIONS AND DRAWINGS SHALL BE REPORTED. NO ALLOWANCE WILL BE GRANTED FOR ABSENCE OF KNOWLEDGE OF THE WORK OR SITE.
4.	BEFORE BEGINNING WORK, SECURE ALL NECESSARY PERMITS OR CLEARANCES FROM THE AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL BE LICENSED TO PERFORM WORK AT THE WORK LOCATION. ALL INSPECTIONS NECESSARY FOR COMPLETE ELECTRICAL INSTALLATION SHALL BE OBTAINED.
5.	ALL EQUIPMENT, SYSTEMS, AND COMPONENTS OF WORK SHALL BE THOROUGHLY TESTED, FREE FROM DEFECT, AND OPERATING PROPERLY PRIOR TO FINAL DELIVERY TO THE OWNER. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL DELIVERY.
6.	ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, INDICATING THE GENERAL ARRANGEMENT AND LOCATION OF ELECTRICAL WORK ONLY. COORDINATE ACTUAL LOCATIONS AND DIMENSIONS OF WORK WITH ACTUAL LOCATIONS OF OTHER TRADE'S WORK.
7.	COORDINATE WITH UTILITY COMPANIES ANY RESPECTIVE UTILITY WORK. COORDINATE LOCATION, CHARACTERISTICS, AND ANY SPECIAL REQUIREMENTS. (E.G. VOLTAGE, PHASE, REQUIRED CONDUIT SIZES, NUMBER OF CONDUITS, EXTRA DISCONNECTING MEANS, TELEPHONE CABINET SIZE, ETC.)
8.	"UL" LABELED AND LISTED DEVICES SHALL BE USED WHERE REQUIRED BY CODE. DEVICES SHALL BE NEW UNLESS NOTED OTHERWISE.
9.	COORDINATE ALL ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH RESPECTIVE TRADES AND EQUIPMENT SUPPLIERS. (E.G. MECHANICAL, PLUMBING, FIRE PROTECTION, KITCHEN, DENTAL, MEDICAL, ELEVATOR, OWNER PROVIDED EQUIPMENT, ETC.)
10.	A NUMBERED TYPE-WRITTEN DIRECTORY FOR ALL NEW OR UPDATED PANELBOARDS, LOAD CENTERS, AND SWITCHBOARDS SHALL BE PROVIDED. CIRCUIT IDENTIFICATION SHALL INCLUDE SPARES, SPACES, AND DETAILS DISTINGUISHABLE FROM OTHERS.
11.	ALL ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED WITH PERMANENT LABELS. EXTERIOR LABELS SHALL BE WEATHERPROOF.
12.	PANELBOARDS SHALL BE DEAD-FRONT WITH NO UNCOVERED SPACES OR MISSING KNOCKOUTS.
13.	ALL CONDUCTORS SHALL BE COPPER WITH THHN/THWN INSULATION UNLESS OTHERWISE NOTED. MINIMUM WIRE SIZE SHALL BE #14 AWG FOR 15A CIRCUITS IN DWELLING UNITS ONLY. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR ALL OTHER AREAS.
14.	PROVIDE A DEDICATED NEUTRAL FOR EACH NEW CIRCUIT. SHARED NEUTRALS MAY ONLY BE USED ON BALANCED CIRCUITS THAT SHARE THE SAME CIRCUIT BREAKER (2-POLE, 3-POLE CIRCUIT BREAKERS).
15.	BRANCH CIRCUITING SHALL BE THHN COPPER IN EMT RACEWAY UNLESS OTHERWISE NOTED.
16.	TYPE MC CABLE MAY BE USED IN LIEU OF EMT FOR BRANCH CIRCUITS IN WALLS AND ABOVE CEILINGS WHERE ALLOWED BY THE NEC.
17.	RACEWAYS SHALL BE INSTALLED CONCEALED WHENEVER POSSIBLE.
18.	NUMBER OF WIRE, WIRE SIZE, AND CONDUIT SIZE MAY NOT BE SHOWN FOR ALL CIRCUITS, ONLY SHOWN WHERE CLARIFICATION IS NECESSARY. PROVIDE ACCORDING TO NEC REQUIREMENTS WHERE NOT SHOWN.
19.	PROVIDE AN ADDITIONAL EQUIPMENT GROUNDING CONDUCTOR WHEN PVC CONDUIT IS USED.
20.	PROVIDE EXPANSION JOINTS IN ALL RACEWAYS/CONDUITS AT LOCATIONS WHERE RACEWAYS/CONDUITS CROSS BUILDING EXPANSION JOINTS. PROVIDE EXPANSION JOINTS WHERE EXPANSION IS ANTICIPATED TO BE 1/4" INCH OR GREATER.
21.	ALL CONDUCTORS SHALL BE SIZED TO MEET THE VOLTAGE DROP REQUIREMENTS OF THE NEC AND ENERGY CODE WITH A MAXIMUM OF 5% COMBINED VOLTAGE DROP TOTAL FOR FEEDER AND BRANCH CIRCUITING.
22.	PROVIDE FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED WALLS, FLOORS, AND CEILINGS TO MAINTAIN FIRE RATING.
23.	ALL BACK-TO-BACK ELECTRICAL BOXES IN FIRE RATED WALLS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 24". UL LISTED WALL OPENING PROTECTIVE MATERIALS (PUTTY PADS) MAY BE USED IN LIEU OF SEPARATION REQUIREMENTS.
24.	ALL CEILING MOUNTED LIGHTING FIXTURES SHALL BE INDIVIDUALLY SUPPORTED FROM THE STRUCTURAL FRAMING MEMBERS ABOVE.
25.	DRY-TYPE TRANSFORMERS SHALL BE RATED WITH CLASS 155 OR HIGHER INSULATION SYSTEMS AND COMPLETELY ENCLOSED EXCEPT FOR VENTILATION OPENINGS.
26.	ALL WEATHERPROOF RECEPTACLE COVERS SHALL BE EXTRA DUTY TYPE.
27.	VERIFY ALL DEVICE COLOR/FINISH WITH ARCHITECT, INTERIOR DESIGNER, OR OWNER. UNLESS OTHERWISE SPECIFIED, MATCH EXISTING COLOR/FINISH OR PROVIDE DEVICES IN COLOR: WHITE.
28.	ALL NON-DWELLING UNIT ELECTRICAL EQUIPMENT (SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS) SHALL BE FIELD OR FACTORY MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. IN ADDITION, ANY NON-DWELLING UNIT SERVICE EQUIPMENT RATED 1200 AMPS OR MORE SHALL HAVE A PERMANENT LABEL OF THE FOLLOWING: 1) NOMINAL SYSTEM VOLTAGE 2) AVAILABLE FAULT CURRENT AT THE SERVICE OVERCURRENT PROTECTIVE DEVICES, AND 3) CLEARING TIME OF SERVICE OVERCURRENT PROTECTIVE DEVICES BASED ON THE AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT.

2015 IECC ENERGY GAUGE EXCEPTION

LESS THAN 10% OF THE LUMINAIRES IN THIS SPACE ARE BEING REPLACED. SUCH ALTERATIONS DO NOT INCREASE THE INSTALLED INTERIOR LIGHTING POWER.



08-03-21



DATE	08/03/2021
DESCRIPTION	ISSUED FOR PERMIT
SEQ.	0
SHEET ISSUE DATE:	8/02/2021
COMMISSION #:	2019-12
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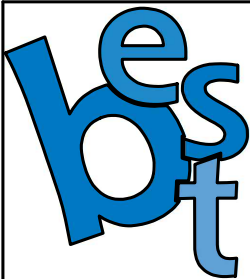
THE EXTENSION, INC. ISOLATION AREA

1507 CHURCH STREET EXT.
MARIETTA, GA. COBB COUNTY

NOTES AND LEGEND

SHEET ID

E-201



Beach Engineering Solutions Team
Mechanical, Electrical & Plumbing Engineering
(678) 665-3280
Project Number: 20-354



2118 willshire boulevard, suite 1115
santa monica, california 90403
310.433.9462
gary@gbca.com
www.garybca.com

3621 winings slope se, suite 4440
atlanta, georgia 30339
770.432.2773 fax
www.courseyarchitects.com

architecture
interior design
planning

gary b. coursey & associates- architects- inc





PLUMBING GENERAL NOTES:	
1. WORK COVERED BY THESE DOCUMENTS INCLUDES LABOR, MATERIAL, EQUIPMENT, FIXTURES AND SERVICES FOR AND INCIDENTAL TO, THE INSTALLATION OF THE PLUMBING SYSTEMS INDICATED WITHIN THESE CONSTRUCTION DOCUMENTS.	18. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO EQUIPMENT USING MANUFACTURER'S CERTIFIED SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED IN AN ACCESSIBLE LOCATION. INSTALL VACUUM BREAKERS WHERE REQUIRED BY LOCAL AUTHORITIES.
2. PRIOR TO SUBMITTING A BID, THIS CONTRACTOR SHALL VISIT THE PROJECT SITE TO VERIFY FIELD CONDITIONS. PRIOR TO BID, NOTIFY ARCHITECT OF ANY DISCREPANCIES WHICH MAY HINDER THE INSTALLATION OF THE SYSTEM AS INDICATED ON THESE DOCUMENTS.	19. INTERIOR PIPING SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO WALLS AND TO WORKMANLIKE MANNER. PROVIDE OFFSETS AS REQUIRED TO AVOID INTERFERENCES WITH ARCHITECTURAL OR STRUCTURAL COMPONENTS.
3. ALL CUTTING AND CORING OF THE EXISTING FLOORS, WALLS, ETC. SHALL BE PATCHED AND SEALED TO MATCH THE EXISTING CONDITIONS.	20. REFER TO ARCHITECTURAL, AND INTERIOR DESIGN DOCUMENTS FOR ACTUAL MOUNTING HEIGHTS AND LOCATIONS OF PLUMBING FIXTURES.
4. ALL WORK SHALL BE PERFORMED TO COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS. THIS CONTRACTOR IS RESPONSIBLE FOR THE LABOR AND COSTS ASSOCIATED WITH OBTAINING CONSTRUCTION PERMITS.	21. ALL EXPOSED PIPING AT PLUMBING FIXTURES SHALL BE CHROME PLATED BRASS WITH ESOUTHEON PLATES AT THE WALL, FLOOR OR CEILING PENETRATION.
5. EXCEPT WHERE DIMENSIONS ARE SPECIFICALLY SHOWN, THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE EQUIPMENT'S ACTUAL SIZE WAS USED IN THE DEVELOPMENT OF THESE DOCUMENTS.	22. THE OWNER, OPERATOR, ARCHITECTURAL NOR ENGINEER ARE RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS, MEANS AND METHODS, WORK TECHNIQUES, CONSTRUCTION SEQUENCE OR PROCEDURES REQUIRED TO COMPLETE THE WORK.
6. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS AND PENETRATION LOCATIONS.	23. SANITARY WASTE AND VENT PIPING LOCATED IN FIRE RATED WALL ASSEMBLIES SHALL BE CAST IRON WITH NO-HUB OR BELL AND SPIGOT FITTINGS.
7. THE DOCUMENTS DO NOT SHOW ALL NECESSARY FITTINGS AND OFFSETS FOR A COMPLETE INSTALLATION. ALTHOUGH NOT SHOWN, IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVIDED ALL NEEDED FOR A COMPLETE AND FUNCTIONING SYSTEM UPON THE COMPLETION OF THE PROJECT.	24. ALL FLOOR DRAINS TO HAVE TRAP PRIMER CONNECTIONS.
8. PRIOR TO ORDERING ANY EQUIPMENT, THIS CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL SUBCONTRACTOR AND GENERAL CONTRACTOR. THIS CONTRACTOR SHALL PROVIDE, PHASE, AMPERAGE, AND VOLTAGE OF ALL EQUIPMENT TO THE ELECTRICAL SUBCONTRACTOR AND WEIGHTS AND DIMENSIONS TO THE GENERAL CONTRACTOR. ANY COST ISSUES SHALL BE DETERMINED PRIOR TO ORDERING THE EQUIPMENT.	25. SANITARY: ABOVE AND BELOW GRADE SANITARY PIPING: PVC MAY BE USED. PROVIDE METAL SLEEVES WHEN PASSING THROUGH FOOTINGS.
9. VALVES AND FITTINGS SHALL BE THE SAME SIZE AS THE PIPING IN WHICH THEY ARE INSTALLED.	26. FITTINGS AND JOINTS; COUPLINGS SHALL BE STAINLESS STEEL, HEAVY DUTY, NO-HUB, PVC SOCKET TYPE, SOLVENT WELDED PVC PLASTIC.
10. FOR ALL PENETRATIONS THROUGH EXTERIORS WALLS OR ROOF, SEAL WITH WATER PROOFING AND MAKE LEAK TIGHT.	27. DOMESTIC WATER: ABOVE GRADE DOMESTIC WATER PIPE: PVC OR PEX MAY BE USED. 3/4" COLD WATER AND 1" HOT WATER THICK FIBERGLAS OR ARMAFLEX INSULATION. BELOW GRADE DOMESTIC WATER PIPING: PVC MAY BE USED. DOMESTIC WATER PIPE WILL BELOW THE ROOF CEILING AND ABOVE THE DROP CEILING.
11. FOR ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND BARRIERS PROVIDE FIRE STOPPING TO MAINTAIN FIRE RATING.	28. ALL EQUIPMENT, FIXTURES, PIPING, VALVES AND FITTINGS SHALL BE CLEANED OF GREASE, OIL PINT, METL SHAVINGS AND CONSTRUCTION DEBRIS BEFORE FINAL INSPECTION.
12. PROVIDE PIPE SUPPORTS AS REQUIRED BY THE LOCAL CODES IN EFFECT AS NECESSARY TO PREVENT SWAY.	29. VALVES: DOMESTIC WATER: NIBCO, CRANE, OR MILWAUKEE.
13. CHANGES IN DIRECTION OF SANITARY PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL REDUCE THE FLOW VELOCITY OR CREATE ANY OTHER ADVERSE EFFECT ON THE GRAVITY FLOW OF THE SYSTEM.	30. INSTALLATION: ALL EQUIPMENT AND PRODUCTS SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN REQUIREMENTS. PROVIDE ACCESS AND CLEARANCE FOR ALL EQUIPMENT REQUIRING MAINTENANCE.
14. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR CHASES AS SHOWN IN THESE DOCUMENTS. PIPING ROUTED IN EXPOSED AREAS SHALL BE HELD TIGHT TO STRUCTURE AND PAINTED TO MATCH THE SURROUNDING STRUCTURE. PIPING IN MECHANICAL SPACES DO NOT REQUIRE PAINTING.	31. TESTING: TEST SANITARY AND VENT PIPING PRIOR TO THE INSTALLATION OF FIXTURES. HYDROSTATIC TEST SHALL BE PERFORMED WITH PIP CAPPED AT FIXTURE CONNECTIONS. FILL PIPING WITH WATER AND ALLOW TO STAND FOR ONE HOUR.
15. PROVIDE ACCESS PANELS FOR ALL VALVES. FIELD COORDINATE ACCESS PANEL LOCATIONS.	32. TEST DOMESTIC WATER PIPING PRIOR TO THE INSTALLATION OF FIXTURES. HYDROSTATIC TEST SHALL BE PERFORMED WITH PIPE CAPPED AT FIXTURE CONNECTIONS. HYDROSTATIC TEST PRESSURE SHALL BE 125 PSI AND HELD FOR ONE HOUR.
16. CONTRACTOR SHALL FIELD VERIFY INVERT ELEVATIONS PRIOR TO INSTALLATION AND AT THE INITIAL SITE VISIT.	33. DOMESTIC WATER PIPING SHALL BE DISINFECTED PRIOR TO BEING BACK INTO SERVICE. DISINFECTION SHALL MEET THE REQUIREMENTS OF AWWA AND THOSE OF THE LOCAL AUTHORITY.
17. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS TO DISSIMILAR METALS.	34. ALL PLUMBING FIXTURES SHALL BE HIGH EFFICIENT.

PLUMBING PIPING SCHEDULE			
SERVICE	MATERIAL	JOINTS	FITTINGS
SANITARY SEWER PIPES AND VENTS	CAST IRON	LEAD AND OAKUM	NO HUB
DOMESTIC HOT & COLD WATER INTERIOR	TYPE "L" HARD DRAWN COPPER	SOLDER 95/5	WROUGHT COPPER
DOMESTIC COLD WATER EXTERIOR	TYPE "K" HARD DRAWN COPPER	SOLDER 95/5	WROUGHT COPPER
CONDENSATE DRAIN	SCHEDULE 40 PVC	PVC SOLVENT	PVC SOLVENT
DOMESTIC WATER BENEATH FLOOR	TYPE "M" SOFT DRAWN COPPER	SOLDER 95/5	WROUGHT COPPER

FIXTURE CONNECTION SCHEDULE					
ITEM	DESCRIPTION	WASTE	CW	HW	NOTES
①	WASHER— SEE ARCHITECTURALS FOR FIXTURES AND TRIM	2"	1/2"	1/2"	①
EW#	EXISTING WATER HEATER	—	—	—	

Diagram illustrating the connection of three washing machines to a common gas line. Each machine has a 1/2" H&CW gas line that connects to a central manifold. The manifold is labeled "EXTEND AND TO EXISTING GAS LINES, FIELD VERIFY EXACT LOCATION." and "CONNECT TO EXISTING H&CW". The manifold also has a 1/2" H&CW gas line that connects to a central manifold. The manifold is labeled "EXTEND AND TO EXISTING GAS LINES, FIELD VERIFY EXACT LOCATION." and "CONNECT TO EXISTING H&CW". The manifold also has a 1/2" H&CW gas line that connects to a central manifold.

ISSUED FOR CONSTRUCTION

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Beach Engineering Solutions Team
Mechanical, Electrical & Plumbing
Engineering

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1503, 1507 CHURCH STREET EXT.
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gary b. coursey & associates -architects-inc -aia

3621 vinings slope se, suite 4440
atlanta, georgia 30339
770.432.2727
770.432.2773 fax
www.coursevarhitects.com

2118 wiltshire boulevard, suite 1115
santa monica, california 90403
310.433.9423
courseychris@aol.com
www.coursevarchitects.com

