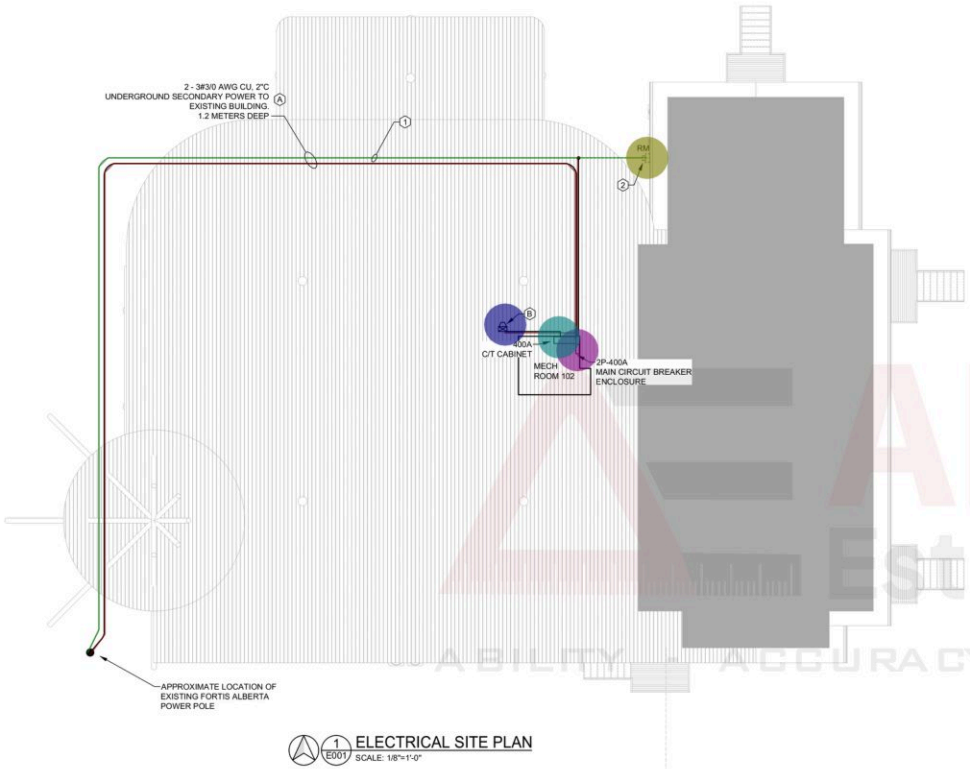


A 1 E001 ELECTRICAL SITE PLAN
SCALE: 1/8"=1'-0"

BUILDING LOCATION
CIVIC ADDRESS:
56006 RR272

AFC DRAWING
FORTIS ACCEPTANCE:
SIGNED:
DATE:
NOTE: FORTIS FACILITY INSTALLATION ONLY.

DRAWING LIST

NUMBER	DESCRIPTION
E001	SITE PLAN
E201	FOUNDATION FLOOR PLAN - LIGHTING
E202	FOUNDATION FLOOR PLAN - POWER & SYSTEMS
E203	MAIN FLOOR PLAN - LIGHTING
E204	MAIN FLOOR PLAN - POWER & SYSTEMS
E401	SINGLE LINE DIAGRAM & ELECTRICAL SCHEDULES
E601	ELECTRICAL FIRE STOPPING
E701	ELECTRICAL SPECIFICATION 1
E702	ELECTRICAL SPECIFICATION 2

RENOVATION LEGEND

RM	**EXISTING TO BE REMOVED** FADED/DASHED DEVICE WITH OR WITHOUT "RM" INDICATES DEVICE TO BE REMOVED AND DISPOSED OF AT THE DIRECTION OF THE OWNERS REPRESENTATIVE
RL	**EXISTING TO BE RELOCATED** FADED/DASHED DEVICE WITH "RL" OR ARROW INDICATES DEVICE TO BE RELOCATED TO A NEW LOCATION
E	**EXISTING TO REMAIN** FADED/SOLID DEVICE WITH OR WITHOUT "E" INDICATES EXISTING DEVICE TO REMAIN
RP	**EXISTING TO BE REPLACED** SOLID DEVICE WITH "RP" INDICATES EXISTING DEVICE TO BE REPLACED AT THE SAME LOCATION WITH NEW DEVICE
	NEW DEVICE SOLID DEVICE INDICATES NEW DEVICE

DEMOLITION KEY NOTES:

1. EXISTING SECONDARY POWER. DISCONNECT AND REMOVE EXISTING CONDUCTOR WIRES. EXISTING 2"C TO BE REUSED FOR 400A NEW SERVICE.
2. EXISTING METERING TO BE DISCONNECTED AND REMOVED.

CONSTRUCTION KEY NOTES:

A. EXISTING U/G 2"C TO BE REUSED FOR NEW 400A SERVICE. EXTEND WIRING AS NEEDED IF IT IS IN GOOD CONDITION. CONFIRM ON SITE. OTHERWISE, PROVIDE NEW. PROVIDE ANOTHER U/G 2"C TO RUN CONDUIT ROUTING PARALLEL AS EXISTING 2"C. COORDINATE AND CONFIRM ALL ASSOCIATED COMPONENTS WITH SUPPLIER PRIOR TO PRICING.

UNDERGROUND SECONDARY POWER SERVICE RIGID PVC DUCTS AT 1200mm BELOW GRADE ENCASED IN A MIN. 75mm CONCRETE ENVELOPE WHERE REQUIRED. REFER TO SINGLE LINE DIAGRAM FOR DETAILS. ENSURE THAT THE SECONDARY CONDUCTOR DETAILS, QUANTITY, AND SIZE OF THE SECONDARY CONDUCTORS ARE COMPATIBLE WITH THE TRANSFORMER LUGS AND OTHER TERMINATION REQUIREMENTS REQUIRED BY THE LOCAL UTILITY. PROVIDE SECONDARY SERVICE CONDUITS DRAIN AS PER CEC 6-300(3)(4). SEE DETAIL.

B. LOCATION OF NEW 400A METER. CONDUIT CONNECTION BETWEEN METER AND C/T CABINET TO RUN ON WALL. PROVIDE REQUIRED CONDUIT SUPPORT.

GENERAL NOTES

1. ELECTRICAL CONTRACTOR TO CONFIRM ENTRY POINTS AND REQUIREMENTS OF INCOMING SERVICES BEFORE COMMENCING WORK.
2. ELECTRICAL CONTRACTOR TO VERIFY CLEARANCES FROM ALL OTHER DEEP SERVICES AND UTILITIES PRIOR TO ANY UNDERGROUND ELECTRICAL SERVICE WORK, INCLUDING BUT NOT LIMITED TO PIPING, TRANSFORMER VAULTS, AND PEDESTALS.
3. ALL EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTO-ELECTRIC CELL (PEC) / TIMECLOCK (TC). REFER TO EXTERIOR LIGHTING CONTROL SCHEMATIC FOR FURTHER INFORMATION.
4. MINIMUM ACCEPTABLE VOLTAGE DROP FOR SITE LIGHTING IS 3% FROM BRANCH CIRCUIT PANEL TO THE FURTHEST LIGHT FIXTURE.
5. PROVIDE A PULL ROPE IN ALL EMPTY CONDUITS.
6. STUB CONDUITS INTO BUILDING ENVELOPE TO BE EXTENDED TO ELECTRICAL ROOM DURING FUTURE BUILDING CONSTRUCTION.
7. EXTEND DUCTS OFF PROPERTY TO PEDESTAL. PROVIDE SWEEPING BENDS INTO PEDESTAL AS DIRECTED BY EACH UTILITY.

TRENCH NOTES

1. CLEARANCE OF 500mm (1'-8") WHEN ABOVE WATER LINE, 300mm (1'-0") WHEN BELOW WATER LINE AND 1800mm (5'-11") HORIZONTAL OF WATER LINE.
2. CLEARANCE OF 1000mm (3'-4") HORIZONTAL AND 300mm (1'-0") VERTICAL FOR GAS LINE.
3. CLEARANCE OF 1000mm (3'-4") WHEN PARALLEL TO ANY UTILITY LINE.
4. CLEARANCE OF 3000mm (9'-1") FROM VALVE, DRAINAGE, MAN HOLE OR STROM LINE.
5. CLEARANCE OF 3000mm (9'-1") FROM CENTRE OF ANY HYDRANT. PRIMARY CABLE SHOULD BE ENCASED IN CONCRETE AREA CONTAINING A HYDRANT.
6. CLEARANCE OF 1200mm (4'-0") VERTICAL FROM GROUND IF CONDUITS ARE UNDER DRIVEWAY.
7. REFER TO CEC TABLE 53 FOR MINIMUM COVER REQUIREMENTS FOR DIRECT BURIED CONDUCTOR OR CABLES.

SYMBOL LEGEND

LIGHTING
- CEILING OR WALL MTD. LUMINAIRE
- CEILING OR WALL RECESSED LUMINAIRE
- STRIP LIGHT LUMINAIRE
- CEILING SURFACE/SUSPENDED LUMINAIRE
- WALL MOUNTED LUMINAIRE

AUXILIARY
- MAGNETIC STARTER
- J=JUNCTION BOX/ T=THERMOSTAT/ H=HUMIDISTAT
- MOTOR
- DISCONNECT
- MOTOR WITH DISCONNECT
- UP / STOP / DOWN

LOW VOLTAGE
- TELEPHONE OUTLET / ABOVE COUNTERTOP
- TELEVISION OUTLET / ABOVE COUNTERTOP
- DATA OUTLET/ ABOVE COUNTERTOP
- COMBO TELE/DATA OUTLET/ ABOVE COUNTER
- SPEAKER ALARM
- MICROPHONE
- CEILING SPEAKER / WALL SPEAKER

SECURITY
- M=MOTION SENSOR / C=CAMERA
- PUSHBUTTON
- C=DOOR CONTACT/ MAGNETIC DOOR LOCK
- BUZZER WITH TRANSFORMER
- NUMERIC KEYPAD
- FOB = FOB READER / ES = ELECTRIC STRIKE
- EMERGENCY CALL

POWER / RECEPTACLE
- DUPLEX RECEPTACLE
- DUPLEX T-SLOT RECEPTACLE/ 20AMP
- GFI T-SLOT RECEPTACLE/ 20AMP
- SPLIT RECEPTACLE
- WP=WEATHERPROOF/EXP=EXPLOSION PROOF
- 4-PLEX RECEPTACLE
- GFI RECEPTACLE
- 1/2 SWITCHED RECEPTACLE
- ISOLATED GROUND
- DEVICE MOUNT 6"(150mm) ABOVE COUNTERTOP
- CONDU-POLE (POWER & COMMUNICATIONS)
- SPECIAL RECEPTACLE
- SPLIT CAR POST
- CAR POST
- SPLIT DOUBLE CAR POST
- DOUBLE CAR POST
- FLOOR BOX (P-POWER, D-DATA, T-TELEPHONE)

EMERGENCY
- CEILING OR WALL MOUNTED EXIT LIGHT
- WALL MOUNTED EXIT LIGHT C/W EM HEADS
- BATTERY PACK / BATTERY PACK C/W HEADS
- REMOTE EMERGENCY HEADS

FIRE ALARM
- FIRE ALARM PULL STATION
- FIRE ALARM HORN C/W STROBE (CEILING/WALL)
- FIRE ALARM STROBE (CEILING/WALL)
- FIRE ALARM HORN (NO STROBE)
- MINI HORN (NO STROBE) C/W PUSHBUTTON SILENCER
- SPEAKER STROBE OR MINI HORN STROBE WITH SILENCER MODULE & PUSHBUTTON BELOW
- SILENCER MODULE C/W PUSHBUTTON
- SILENCER MODULE/ REMOTE PUSHBUTTON
- MAGNETIC DOOR HOLDER
- ALARM BELL
- FIRE ALARM SPEAKER
- FIRE ALARM SPEAKER/STROBE (CEILING/WALL)
- FIRE PHONE
- SMOKE DETECTOR / C=SMOKE CO COMBO
- D=DUCT DETECTOR/ A=SMOKE ALARM
- HEAT DETECTOR/ H=HIGH TEMP DETECTOR
- I=ISOLATION MODULE/ M=MONITOR MODULE
- CONTROL RELAY

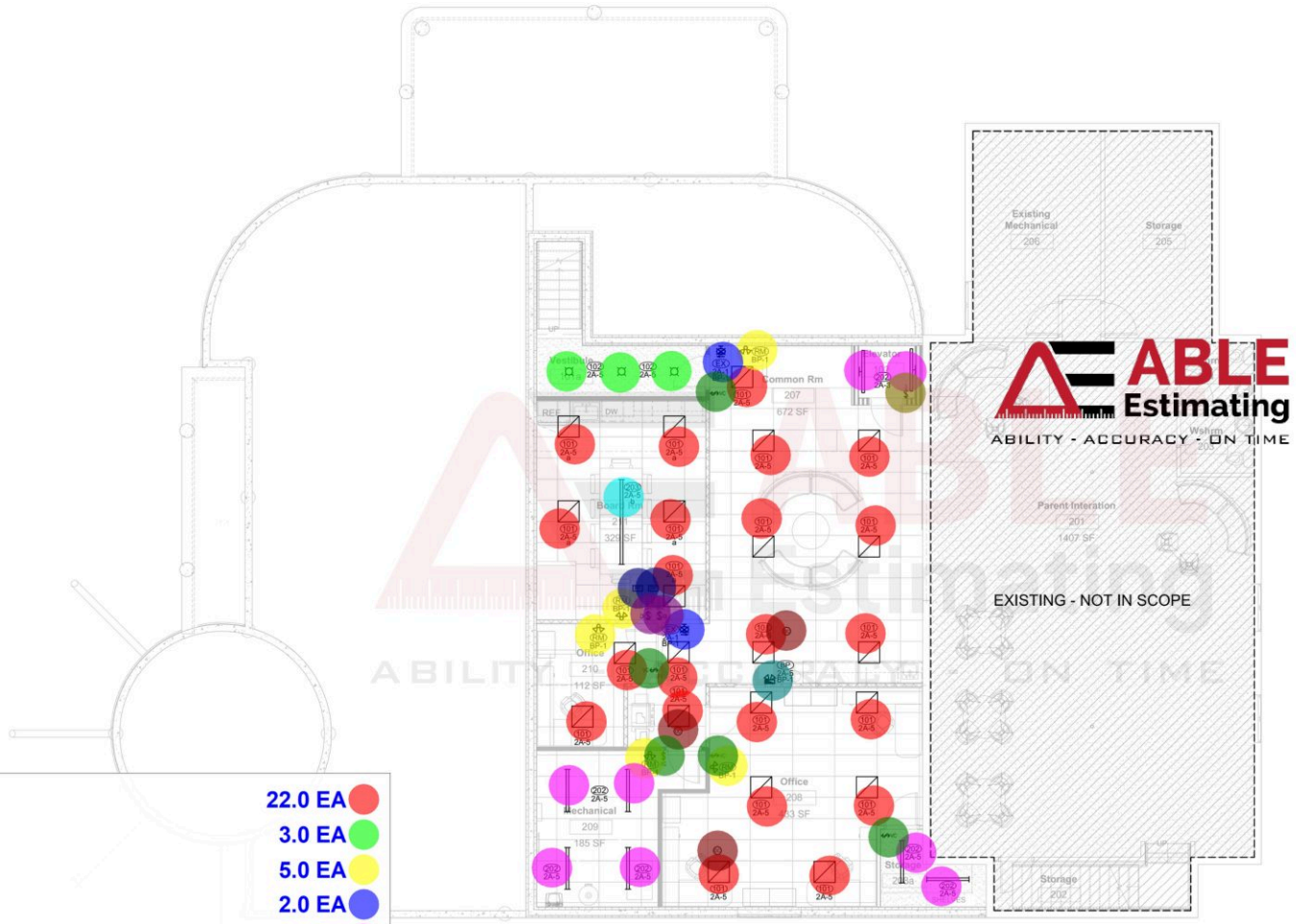
DISTRIBUTION / MISCELLANEOUS
- MAIN DISTRIBUTION PANEL
- SINGLE OR DOUBLE ELECTRICAL PANEL
- TELEPHONE BACKBOARD
- METER CENTER
- INSIDE TRANSFORMER (kVA AS SHOWN)
- TRANSFORMER WITH RAILS
- POWER PACK
- CONDUIT RUN IN WALLS OR CEILING
- CONDUIT RUN IN OR UNDER FLOOR
- MDP MAIN DISTRIBUTION PANEL
- CDP SUB-DISTRIBUTION PANEL
- PEC PHOTO ELECTRIC CELL
- FAAP FIRE ALARM ANNUCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- N/L NIGHT LIGHT
- TVTC TELEVISION TERMINAL CABINET
- TTC TELEPHONE TERMINAL CABINET
- TVTB TELEVISION TERMINAL BACKBOARD
- TTB TELEPHONE TERMINAL BACKBOARD
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE

2-3#3/0 AWG CU, 2...	188.7 FT
DISCONNECT AND...	141.8 FT
EXISTING METERIN...	1.0 EA
NEW 400A METER	1.0 EA
2P-400A CIRCUIT B...	1.0 EA
400A PANEL	1.0 EA

DWG NO. **E001**

CONTRACTORS SHALL VERIFY AND BE R

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101	22.0 EA
102	3.0 EA
RM	5.0 EA
EX	2.0 EA
202	8.0 EA
203	1.0 EA
OCCUPANCY SENSOR	3.0 EA
VARIABLE SPEED S...	5.0 EA
THREE WAY SWITCH	1.0 EA
POWER PACK	2.0 EA
LOW VOLTAGE SWIT...	2.0 EA
BATTERY PACK C/W ...	1.0 EA

ON FLOOR PLAN - LIGHTING

ABLE Estimating
ABILITY - ACCURACY - ON TIME

KEY NOTES

1.
2.
3.
4.

GENERAL NOTES

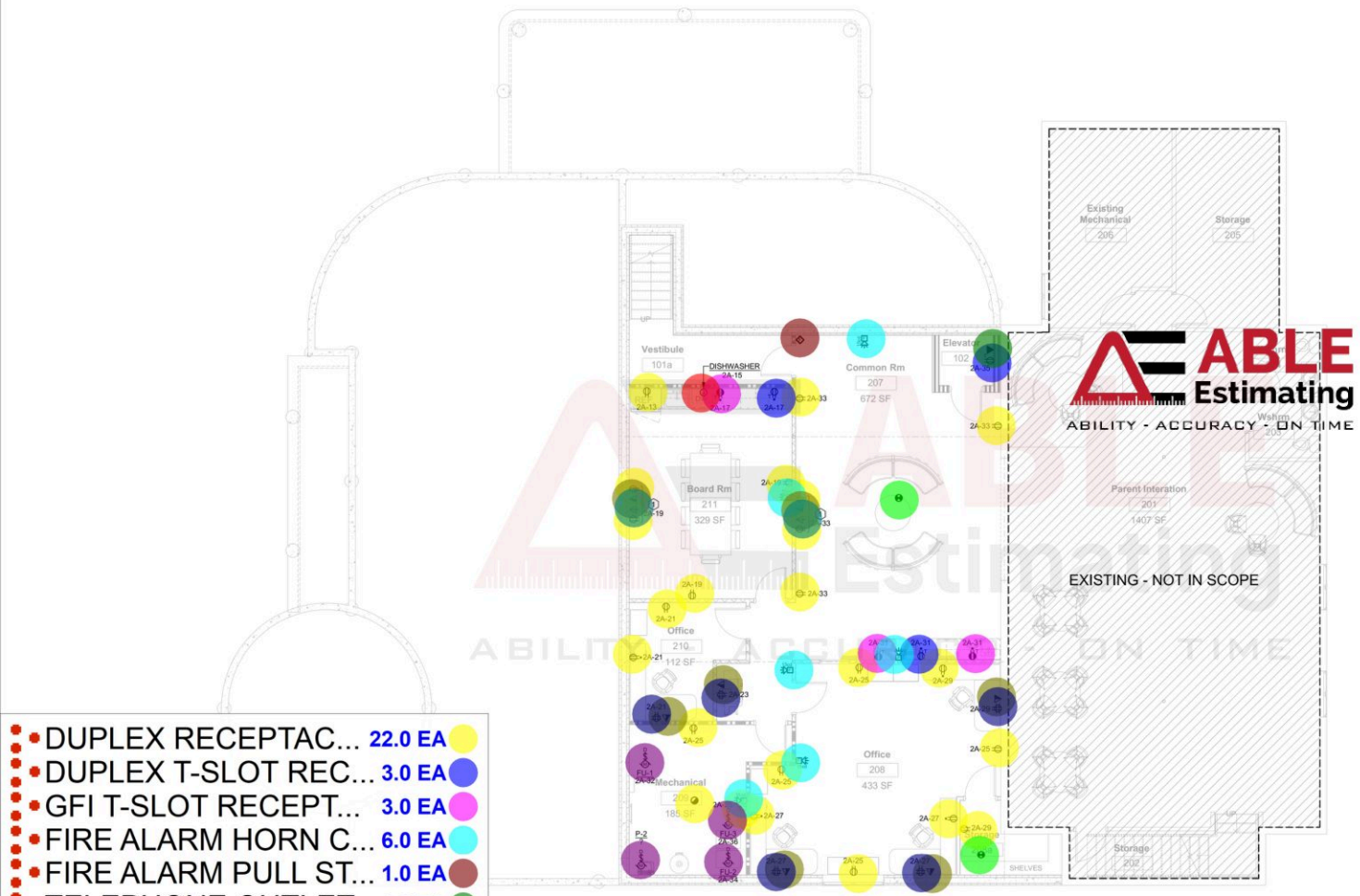
1. IF REQUIRED, PROVIDE A LIGHTING CONTROL CABINET COMPLETE WITH REQUIRED PROGRAM AND LIGHTING RELAY CONTACT TO ACCOMMODATE LIGHTING CONTROL DESIGN INTENT.
2. MECHANICAL DIFFUSERS AND LIGHTING LOCATION TO BE COORDINATE WITH MECHANICAL TO AVOID OVERLAPPING OF BOTH EQUIPMENT.
3. MAINTAIN WALL/CEILING FIRE RATING WHERE NEW CONDUITS PENETRATE RATED WALLS. PROVIDE FIRE STOP AS PER ALBERTA BUILDING CODE REQUIREMENTS. PROVIDE FIRE STOP AROUND DEVICE BOXES IN FIRE RATED WALL. WHERE THE WALLS ARE NOT FIRE RATED, SEAL AROUND RACEWAYS AND DEVICE BOXES WITH CAULKING MATERIAL MATCHING WALL COLOR.
4. OCCUPANCY SENSORS TO TURN LIGHTS OFF WHEN SPACE IS UNOCCUPIED FOR TWENTY (20) MINUTES.

DWG NO.

E201

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ABLE Estimating
ABILITY - ACCURACY - ON TIME

ON FLOOR PLAN - POWER & SYSTEMS

DUPLEX RECEPTAC...	22.0 EA
DUPLEX T-SLOT REC...	3.0 EA
GFI T-SLOT RECEPT...	3.0 EA
FIRE ALARM HORN C...	6.0 EA
FIRE ALARM PULL ST...	1.0 EA
TELEPHONE OUTLET	1.0 EA
COMBO TELE/DATA ...	7.0 EA
4-PLEX RECEPTACLE	5.0 EA
MOTOR WITH DISCO...	4.0 EA
TELEVISION OUTLET	2.0 EA
JUNCTION BOX	1.0 EA
SMOKE DETECTOR	2.0 EA
HEAT DETECTOR	1.0 EA

KEY NOTES

1. COORDINATE MOUNTING HEIGHT FOR TV RECEPTACLES AND DATA / CABLE TV OUTLETS WITH ARCHITECT AND OWNER.

GENERAL NOTES

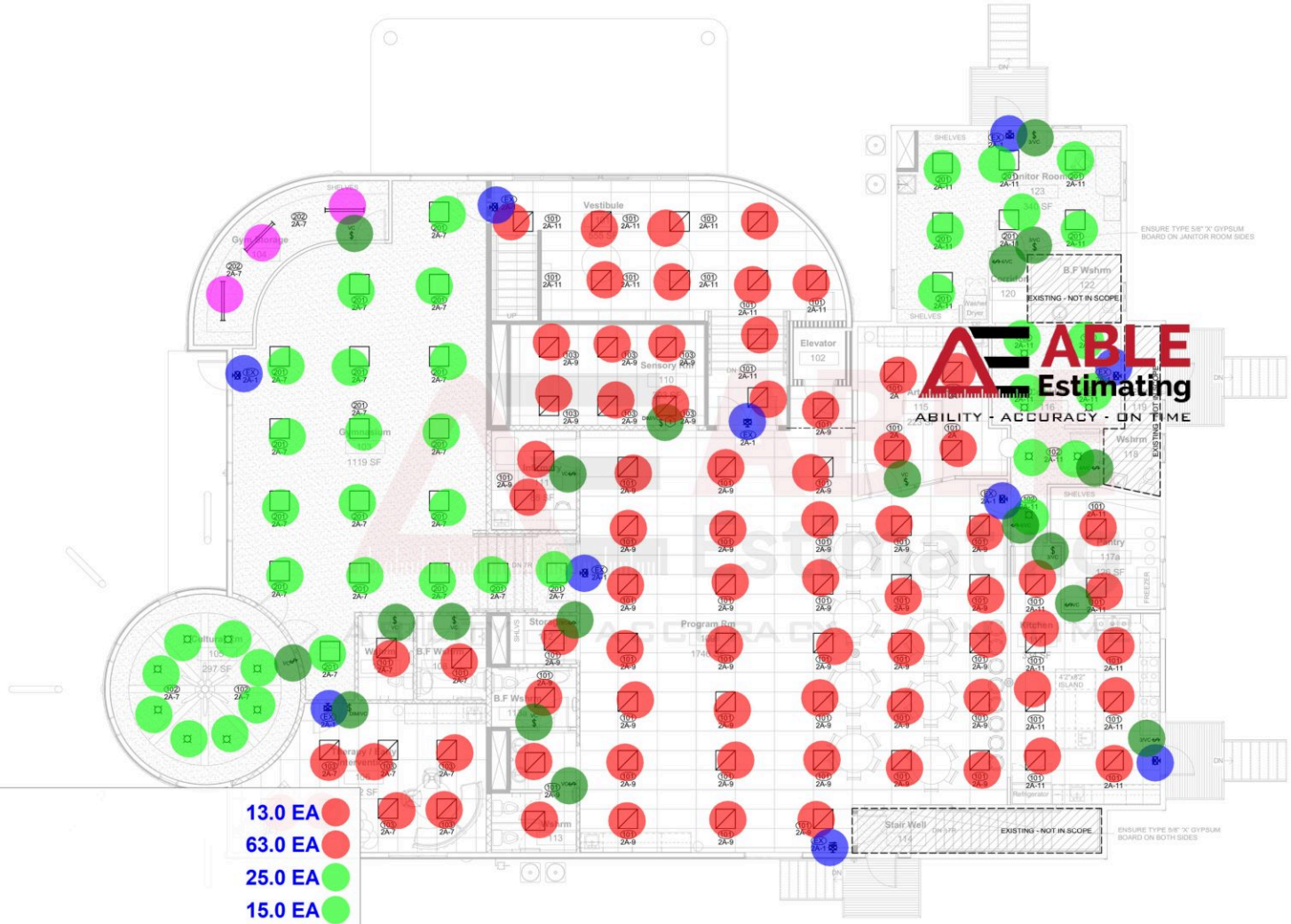
1. WHERE NEW CONDUITS PENETRATE RATED WALL MAINTAIN WALL RATING. PROVIDE FIRE STOP AROUND DEVICE BOXES IN FIRE RATED WALL. WHERE THE WALLS ARE NOT FIRE RATED, SEAL AROUND RACEWAY AND DEVICE BOXES WITH CAULKING MATERIAL MATCHING WALL COLOR.
2. ELECTRICAL DEVICES LOCATED IN OFFICES TO BE COORDINATED WITH FINAL FURNITURE LAYOUT. COORDINATE AND CONFIRM WITH OWNER ON SITE PRIOR TO ROUGH-IN.
3. PROVISION OF MECHANICAL EQUIPMENTS ARE INDICATIVE ONLY. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS AND FINAL EQUIPMENT REQUIREMENTRATING TO BE INSTALLED. NECESSARY ELECTRICAL ADJUSTMENT SHALL BE DONE ACCORDINGLY PRIOR TO INSTALLATION.
4. PROVIDE REQUIRED EQUIPMENT DISCONNECT SWITCH FOR ALL MECHANICAL MOTORS. CONFIRM BEST MOUNTING LOCATION ON SITE.
5. COORDINATE AND CONFIRM CONTROL REQUIREMENT WITH MECHANICAL CONTROL CONTRACTOR AND MECHANICAL GENERAL CONTRACTOR. ALLOW ALL CONTROL NOTED BY ELECTRICAL TO PROVIDE.
6. PROVIDE 120V POWER FOR MECHANICAL CONTROL POINTS. COORDINATE AND CONFIRM EXACT LOCATION WITH MECHANICAL DRAWING PRIOR TO INSTALLATION.
7. PROVIDE NEW FIRE ALARM DEVICES AS SHOWN ON DRAWING. CONNECT TO CLOSEST INITIATING / SIGNALING CIRCUIT(S). ADJUST PROGRAMMING OF FIRE ALARM PANEL AS REQUIRED. RE-VERIFY AS PER NEW CAN/ULC S537. NEW FIRE ALARM DEVICE SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
8. ELECTRICAL CONTRACTOR TO COORDINATE AND CONFIRM ON SITE EXISTING FIRE ALARM ZONE AND CIRCUIT NUMBERS.
9. EXISTING FIRE ZONE/PASSIVE GRAPHIC DISPLAY TO BE REVISED TO INCLUDE NEW ZONE FOR SPACE RENOVATION.
10. IF REQUIRED, PROVIDE ISOLATION MODULE AND END-OF-LINE (EOL) DEVICES. DETERMINE BEST MOUNTING LOCATION ON SITE AND PROVIDE RED LINE MARK UPS FOR DEVICE LOCATION.

DWG NO.

E202

CONTRACTORS SHALL VERIFY AND BE R

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R PLAN - LIGHTING

103	13.0 EA
101	63.0 EA
201	25.0 EA
102	15.0 EA
202	3.0 EA
EX	10.0 EA
VARIABLE SPEED S...	11.0 EA
3 WAY VARIABLE SP...	4.0 EA
4 WAY VARIABLE SP...	2.0 EA
VARIABLE SPEED /DI...	2.0 EA

KEY NOTES

1. COORDINATE AND CONFIRM EXACT COMPATIBLE LIGHTING WALL CONTROLS WITH THE LIGHTING MANUFACTURER TO ENSURE VACANCY, COLOUR TUNING, AND DIMMING AS REQUIRED.
2.
3.
4.

GENERAL NOTES

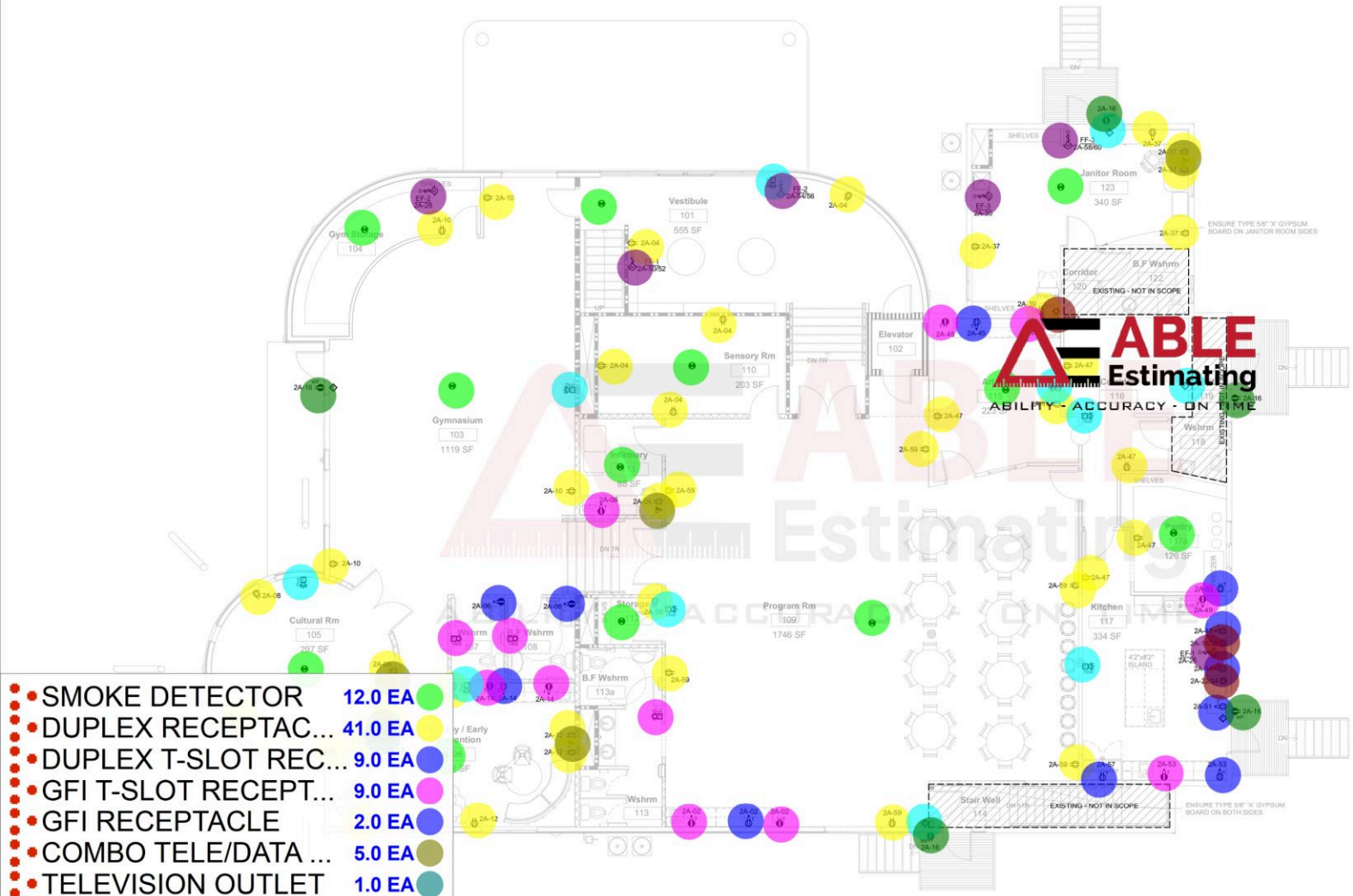
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2. MECHANICAL DIFFUSERS AND LIGHTING LOCATION TO BE COORDINATE WITH MECHANICAL TO AVOID OVERLAPPING OF BOTH EQUIPMENT.
3. MAINTAIN WALL/CEILING FIRE RATING WHERE NEW CONDUITS PENETRATE RATED WALLS. PROVIDE FIRE STOP AS PER ALBERTA BUILDING CODE REQUIREMENTS. PROVIDE FIRE STOP AROUND DEVICE BOXES IN FIRE RATED WALL. WHERE THE WALLS ARE NOT FIRE RATED, SEAL AROUND RACEWAYS AND DEVICE BOXES WITH CAULKING MATERIAL MATCHING WALL COLOR.
4. VACANCY SENSORS TO TURN LIGHTS OFF WHEN SPACE IS UNOCCUPIED FOR TWENTY (20) MINUTES.
5. CIRCUITS SHOWN ARE FOR GROUPING PURPOSES ONLY. SITE VERIFY EXACT CIRCUITING ON SITE.

DWG NO.

E203

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R PLAN - POWER & SYSTEMS

SMOKE DETECTOR	12.0 EA
DUPLEX RECEPTAC...	41.0 EA
DUPLEX T-SLOT REC...	9.0 EA
GFI T-SLOT RECEPT...	9.0 EA
GFI RECEPTACLE	2.0 EA
COMBO TELE/DATA ...	5.0 EA
TELEVISION OUTLET	1.0 EA
FIRE ALARM STROBE	3.0 EA
FIRE ALARM HORN C...	8.0 EA
FIRE ALARM PULL ST...	3.0 EA
MOTOR WITH DISCO...	6.0 EA
SPECIAL RECEPTACLE	3.0 EA
GFI RECEPTACLE wp	5.0 EA

KEY NOTES

1. COORDINATE MOUNTING HEIGHT FOR TV RECEPTACLES AND DATA / CABLE TV OUTLETS WITH ARCHITECT AND OWNER.
2.
3.
4.

GENERAL NOTES

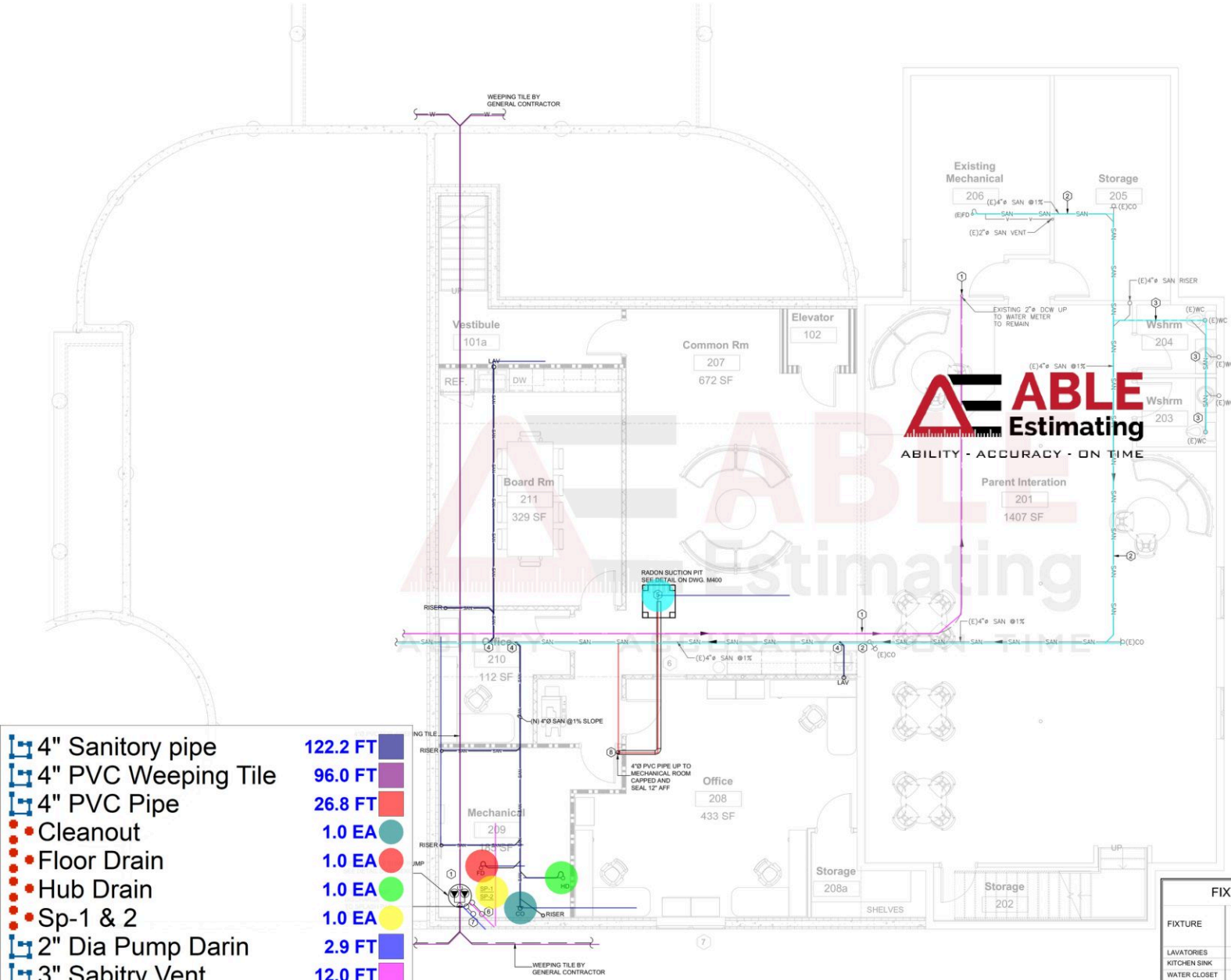
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2. ELECTRICAL DEVICES LOCATED IN OFFICES TO BE COORDINATED WITH FINAL FURNITURE LAYOUT. COORDINATE AND CONFIRM WITH OWNER ON SITE PRIOR TO ROUGH-IN.
3. PROVISION OF MECHANICAL EQUIPMENTS ARE INDICATIVE ONLY. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS AND FINAL EQUIPMENT REQUIREMENTRATING TO BE INSTALLED. NECESSARY ELECTRICAL ADJUSTMENT SHALL BE DONE ACCORDINGLY PRIOR TO INSTALLATION.
4. PROVIDE REQUIRED EQUIPMENT DISCONNECT SWITCH FOR ALL MECHANICAL MOTORS. CONFIRM BEST MOUNTING LOCATION ON SITE.
5. COORDINATE AND CONFIRM CONTROL REQUIREMENT WITH MECHANICAL CONTROL CONTRACTOR AND MECHANICAL GENERAL CONTRACTOR. ALLOW ALL CONTROL NOTED BY ELECTRICAL TO PROVIDE.
6. PROVIDE 120V POWER FOR MECHANICAL CONTROL POINTS. COORDINATE AND CONFIRM EXACT LOCATION WITH MECHANICAL DRAWING PRIOR TO INSTALLATION.
7. PROVIDE NEW FIRE ALARM DEVICES AS SHOWN ON DRAWING. CONNECT TO CLOSEST INITIATING / SIGNALING CIRCUIT(S). ADJUST PROGRAMMING OF FIRE ALARM PANEL AS REQUIRED. RE-VERIFY AS PER NEW CAN/ULC S537. NEW FIRE ALARM DEVICE SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
8. ELECTRICAL CONTRACTOR TO COORDINATE AND CONFIRM ON SITE EXISTING FIRE ALARM ZONE AND CIRCUIT NUMBERS.
9. EXISTING FIRE ZONE/PASSIVE GRAPHIC DISPLAY TO BE REVISED TO INCLUDE NEW ZONE FOR SPACE RENOVATION.
10. IF REQUIRED, PROVIDE ISOLATION MODULE AND END-OF-LINE (EOL) DEVICES. DETERMINE BEST MOUNTING LOCATION ON SITE AND PROVIDE RED LINE MARK UPS FOR DEVICE LOCATION.

DWG NO.

E204

CONTRACTORS SHALL VERIFY AND BE R

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GENERAL NOTES:

1. COORDINATE ALL PLUMBING AND PIPING WITH OTHER EQUIPMENT
2. INSTALL ALL MATERIALS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND INSTALLATION HEIGHT OF ALL PLUMBING FIXTURES
4. INSULATE ALL HOT & COLD WATER PIPING, AND P-TRAPS WITH TRAP WRAP TO ADA REQUIREMENTS
5. MECHANICAL CONTRACTOR TO REFER TO ARCHITECTURAL SITE PLAN FOR SERVICE. COORDINATE EXACT LOCATIONS AND INVERTS OF ALL SERVICE CONNECTIONS INCLUDING WATER, SANITARY LINE & GAS WITH SITE SERVICE CONTRACTOR PRIOR TO INSTALLATION
6. ALL PLUMBING VENTS TO TERMINATE THROUGH ROOF
7. ALL VENTS, GAUGES, THERMOSTATS, AND TRAP PRIMERS TO BE LOCATED IN ACCESSIBLE LOCATIONS.
8. NO WATER LINES ON EXTERIOR WALLS OR SHALL BE ROUTED ON INTERIOR SIDE OF INSULATION OR IN PLUMBING WALL
9. MECHANICAL CONTRACTOR SHALL FINISH AND INSTALL ALL LOW VOLTAGE WIRING AND MAKE FINAL CONNECTIONS TO EQUIPMENT AS REQUIRED FOR THE CONTROL
10. DO NOT ROUTE ANY PIPING OVER ELECTRICAL ROOMS, COMPUTER ROOMS, OR ELECTRIC PANELS
11. INSTALL ISOLATION VALVE PRIOR TO EACH PLUMBING FIXTURE
12. ALL INSTALLATION SHALL BE AS PER NATIONAL PLUMBING CODE, CSA/CAN B149.1, NFPA, MANUFACTURER INSTRUCTIONS AND ALL OTHER APPLICABLE CODES & STANDARDS

KEY NOTES:

1	EXISTING 2"Ø DOMESTIC WATER TO REMAIN AND BE REUSED VERIFY EXACT LOCATION ON SITE.
2	EXISTING 4"Ø SANITARY @ 1% SLOPE TO REMAIN AND BE REUSED. CONTRACTOR SHALL VERIFY EXACT LOCATION ON SITE.
3	EXISTING WATER AND SEWER IN WASHROOMS TO REMAIN AND BE REUSED
4	VERIFY EXISTING SEWER LOCATION ON SITE. BEFORE NEW CONNECTIONS ARE MADE
5	RADON SUCTION PIT C/W 4"Ø PIPE UP TO MECHANICAL ROOM SLAB WITH GAS/AIR TIGHT COVER, LABEL FOR RADON. SEE DETAIL 7 ON DWG. M703.
6	3"Ø SANITARY VENT UP THROUGH ROOF.
7	2"Ø PUMPED DRAIN FOR WEEPING TILE SUMP PIT PUMPS TO SPLASH PAD OUTSIDE
8	RADON 4"Ø PIPE UP TO MECHANICAL ROOM SLAB WITH COVER, AND LABEL FOR RADON FOR FUTURE USE
9	WEEPING TILE SUMP PUMP, 36"Ø SUMP C/W INTEGRAL BASE. PROVIDE GASKETED, COVER FLUSH WITH FLOOR. PROVIDE 3"Ø VENT UP THRU THE ROOF. COORDINATE LOCATION AND INSTALLATION ON SITE WITH OTHER TRADES.

4" Sanitory pipe	122.2 FT
4" PVC Weeping Tile	96.0 FT
4" PVC Pipe	26.8 FT
Cleanout	1.0 EA
Floor Drain	1.0 EA
Hub Drain	1.0 EA
Sp-1 & 2	1.0 EA
2" Dia Pump Darin	2.9 FT
3" Sabitry Vent	12.0 FT
RADON SUCTION PI...	1.0 EA
2"Ã˜ DOMESTIC WA...	77.2 FT
4"Ã˜ SANITARY REU...	131.4 FT

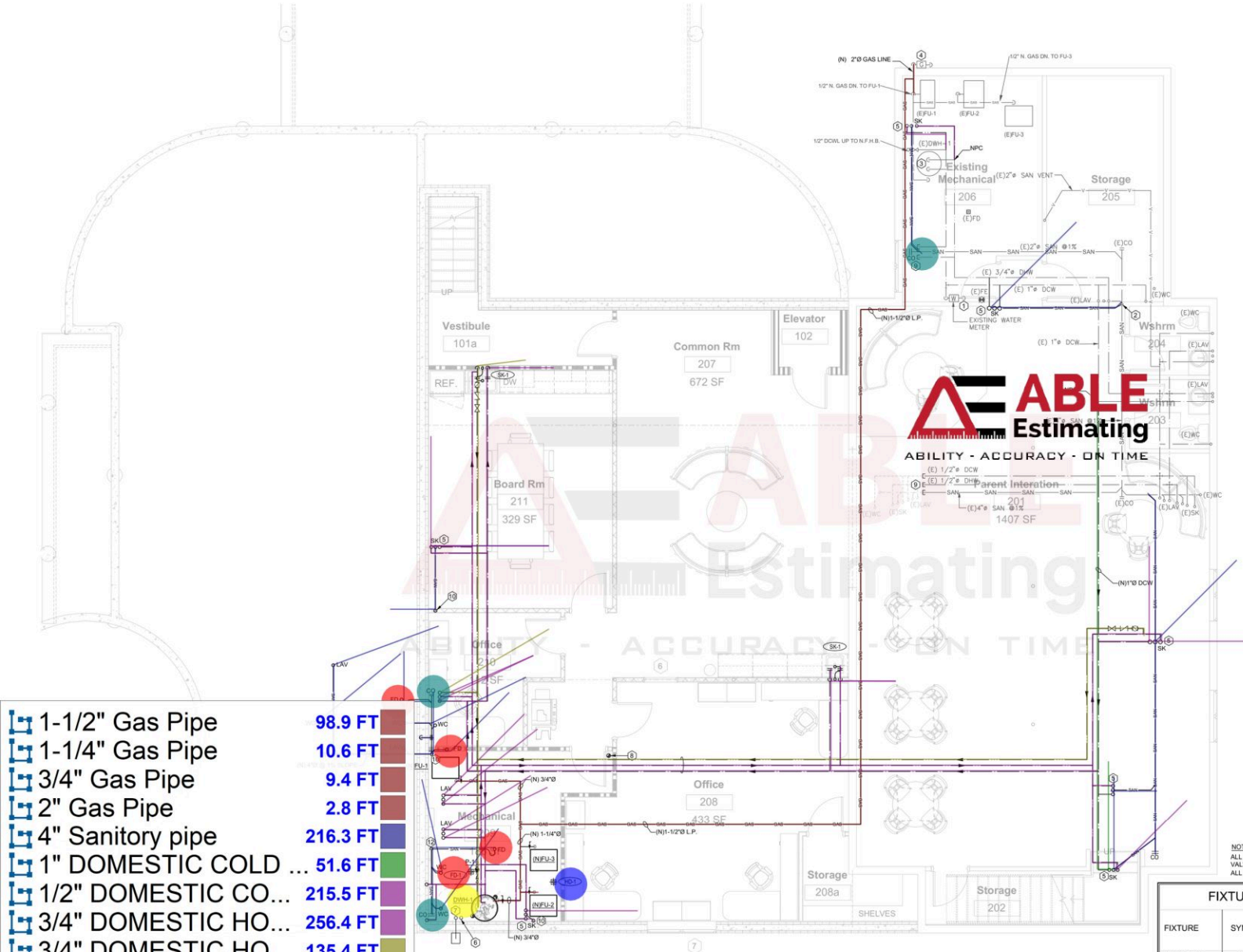
NOTE:
ALL PLUMBING FIXTURE SHALL HAVE ISOLATION VALVES FOR EACH HOT AND COLD WATER LINE.
ALL FLOOR DRAINS c/w TRAP SEAL PRIMER.

FIXTURES ROUGH-IN SCHEDULE

FIXTURE	SYMBOL	HOT WATER	COLD WATER	WASTE	VENT
LAVATORIES	LAV	1/2"Ø	1/2"Ø	1-1/4"Ø	1-1/4"Ø
KITCHEN SINK	SK	3/4"Ø	3/4"Ø	1-1/2"Ø	1-1/4"Ø
WATER CLOSET	WC	--	1"Ø	4"Ø	2"Ø
FLOOR DRAINS	F.D.	--	--	4"Ø	1-1/2"Ø
HOSE BIBS	H.B.	3/4"Ø	3/4"Ø	--	--
HUB DRAIN	H.D.	--	--	4"Ø	1-1/2"Ø
CLOTHES WASH	--	3/4"Ø	3/4"Ø	1-1/2"Ø	1-1/4"Ø
MOP SINK	MS	1/2"Ø	1/2"Ø	3"Ø	1-1/4"Ø
HAND SINK	SK-	1/2"Ø	1/2"Ø	1-1/2"Ø	1-1/2"Ø

DWG No.
M200

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ABLE Estimating
ABILITY - ACCURACY - ON TIME

GENERAL NOTES:

1. COORDINATE ALL PLUMBING AND PIPING WITH OTHER EQUIPMENT
2. INSTALL ALL MATERIALS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND INSTALLATION HEIGHT OF ALL PLUMBING FIXTURES
4. INSULATE ALL HOT & COLD WATER PIPING, AND P-TRAPS WITH TRAP WRAP TO ADA REQUIREMENTS
5. MECHANICAL CONTRACTOR TO REFER TO ARCHITECTURAL SITE PLAN FOR SERVICE. COORDINATE EXACT LOCATIONS AND INVERTS OF ALL SERVICE CONNECTIONS INCLUDING WATER, SANITARY LINE & GAS WITH SITE SERVICE CONTRACTOR PRIOR TO INSTALLATION
6. ALL PLUMBING VENTS TO TERMINATE THROUGH ROOF
7. ALL VENTS, GAUGES, THERMOSTATS, AND TRAP PRIMERS TO BE LOCATED IN ACCESSIBLE LOCATIONS.
8. NO WATER LINES ON EXTERIOR WALLS OR SHALL BE ROUTED ON INTERIOR SIDE OF INSULATION OR IN PLUMBING WALL
9. MECHANICAL CONTRACTOR SHALL FINISH AND INSTALL ALL LOW VOLTAGE WIRING AND MAKE FINAL CONNECTIONS TO EQUIPMENT AS REQUIRED FOR THE CONTROL
10. DO NOT ROUTE ANY PIPING OVER ELECTRICAL ROOMS, COMPUTER ROOMS, OR ELECTRIC PANELS
11. INSTALL ISOLATION VALVE PRIOR TO EACH PLUMBING FIXTURE
12. ALL INSTALLATION SHALL BE AS PER NATIONAL PLUMBING CODE, CSA/CAN B149.1, NFPA, MANUFACTURER INSTRUCTIONS AND ALL OTHER APPLICABLE CODES & STANDARDS

KEY NOTES:

1	EXISTING 2"Ø DOMESTIC WATER TO REMAIN AND BE REUSED VERIFY EXACT LOCATION ON SITE.
2	EXISTING 4"Ø SAN RISER SERVING WASHROOM ABOVE TO REMAIN AND BE REUSED. VERIFY EXACT LOCATION ON SITE
3	EXISTING DOMESTIC WATER HEATER TO REMAIN AND BE REUSED
4	EXISTING GAS METER TO REMAIN AND BE REUSED. UPGRADE METER AND GAS SERVICE IF REQUIRED FOR NEW GAS LOAD.
5	HOT WATER AND COLD WATER SERVING SINK ABOVE
6	3"Ø SANITARY VENT UP THROUGH ROOF FROM WEEPING TILE SUMP PUMP
7	2"Ø PUMPED DRAIN FROM WEEPING TILE PUMP TO SPLASH PAD OUTSIDE. SPLASH PAD BY GENERAL CONTRACTOR
8	RADON 4"Ø PIPE UP TO MECHANICAL ROOM SLAB WITH COVER, AND LABEL RADON FOR FUTURE USE
9	EXISTING PLUMBING FIXUTRE ABOVE TO BE DEMOLISHED. CAPP-OFF EXISTING PIPING PATCH AND MAKE GOOD
10	NEW 4"Ø SAN RISER DOWN SERVING PLUMBING FIXTURES ABOVE. CONNECT TO EXISTING SAN IN BASEMENT. SEE DWG M200. COORDINATE ON SITE

NOTE:
ALL PLUMBING FIXTURE SHALL HAVE ISOLATION VALVES FOR EACH HOT AND COLD WATER LINE.
ALL FLOOR DRAINS c/w TRAP SEAL PRIMER.

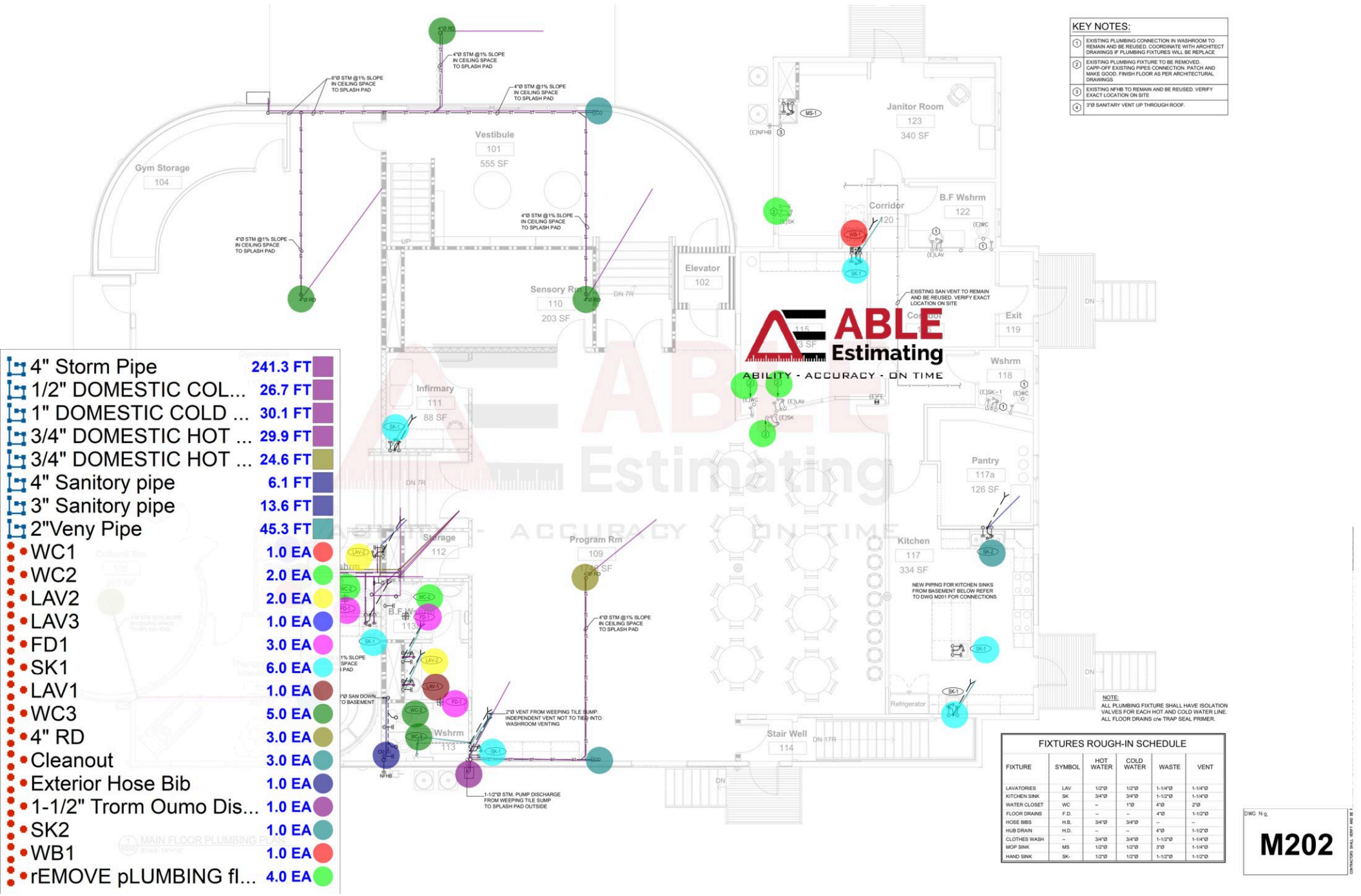
FIXTURES ROUGH-IN SCHEDULE

FIXTURE	SYMBOL	HOT WATER	COLD WATER	WASTE	VENT
LAVATORIES	LAV	1/2"Ø	1/2"Ø	1-1/4"Ø	1-1/4"Ø
KITCHEN SINK	SK	3/4"Ø	3/4"Ø	1-1/2"Ø	1-1/4"Ø
WATER CLOSET	WC	--	1"Ø	4"Ø	2"Ø
FLOOR DRAINS	F.D.	--	--	4"Ø	1-1/2"Ø
HOSE BIBS	H.B.	3/4"Ø	3/4"Ø	--	--
HUB DRAIN	H.D.	--	--	4"Ø	1-1/2"Ø
CLOTHES WASH	--	3/4"Ø	3/4"Ø	1-1/2"Ø	1-1/4"Ø
MOP SINK	MS	1/2"Ø	1/2"Ø	3"Ø	1-1/4"Ø
HAND SINK	SK-	1/2"Ø	1/2"Ø	1-1/2"Ø	1-1/2"Ø

1-1/2" Gas Pipe	98.9 FT
1-1/4" Gas Pipe	10.6 FT
3/4" Gas Pipe	9.4 FT
2" Gas Pipe	2.8 FT
4" Sanitory pipe	216.3 FT
1" DOMESTIC COLD ...	51.6 FT
1/2" DOMESTIC CO...	215.5 FT
3/4" DOMESTIC HO...	256.4 FT
3/4" DOMESTIC HO...	135.4 FT
Cleanout	3.0 EA
Floor Drain	4.0 EA
DWH1	1.0 EA
Hub Drain	1.0 EA

DWG No.
M201

CONTRACTORS SHALL VERIFY AND BE RE



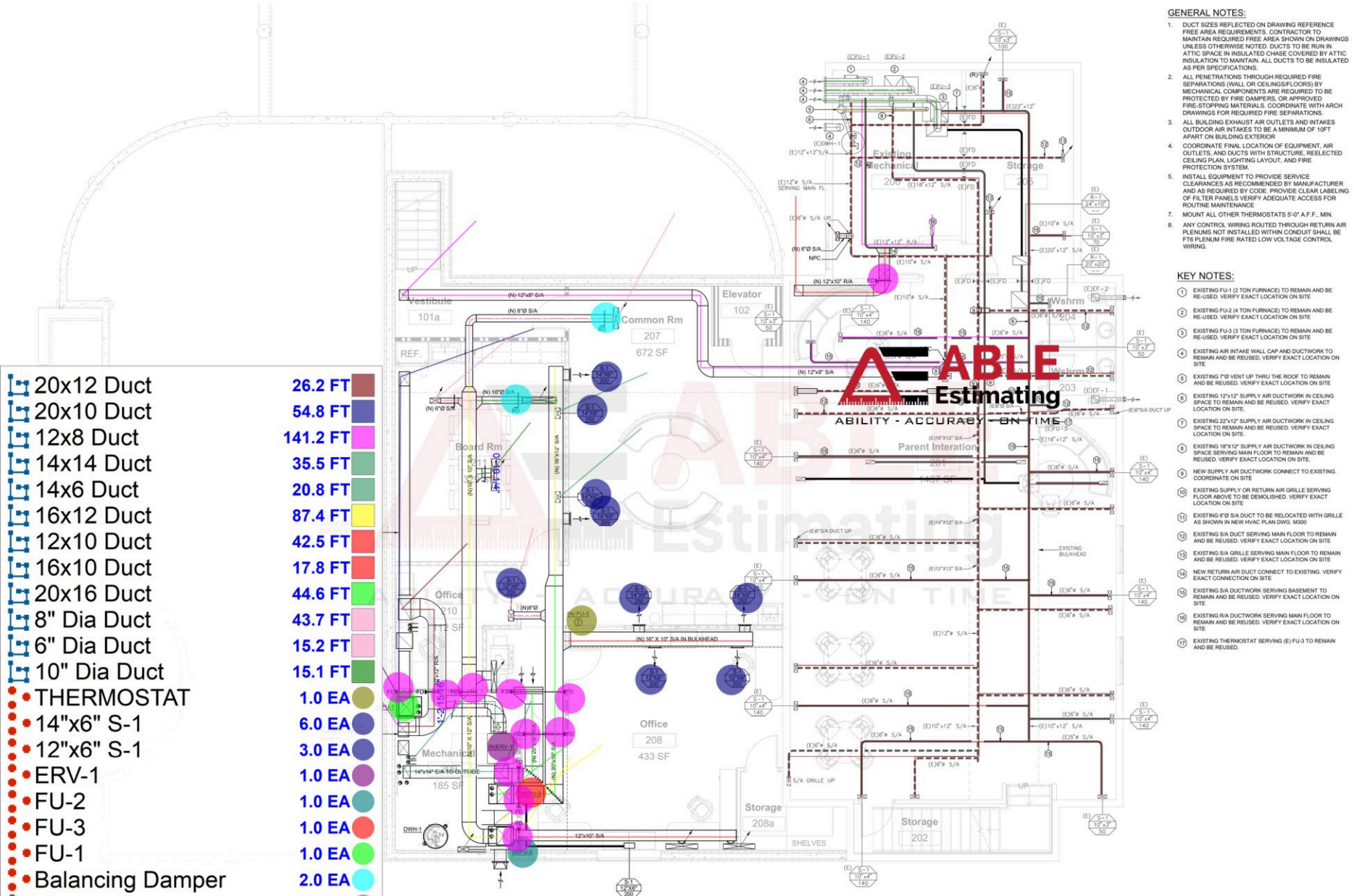
4" Storm Pipe	241.3 FT
1/2" DOMESTIC COL...	26.7 FT
1" DOMESTIC COLD ...	30.1 FT
3/4" DOMESTIC HOT ...	29.9 FT
3/4" DOMESTIC HOT ...	24.6 FT
4" Sanitory pipe	6.1 FT
3" Sanitory pipe	13.6 FT
2"Veny Pipe	45.3 FT
WC1	1.0 EA
WC2	2.0 EA
LAV2	2.0 EA
LAV3	1.0 EA
FD1	3.0 EA
SK1	6.0 EA
LAV1	1.0 EA
WC3	5.0 EA
4" RD	3.0 EA
Cleanout	3.0 EA
Exterior Hose Bib	1.0 EA
1-1/2" Trorm Oumo Dis...	1.0 EA
SK2	1.0 EA
WB1	1.0 EA
rEMOVE pLUMBING fI...	4.0 EA

FIXTURES ROUGH-IN SCHEDULE

FIXTURE	SYMBOL	HOT WATER	COLD WATER	WASTE	VENT
LAVATORIES	LAV	1/2"Ø	1/2"Ø	1-1/4"Ø	1-1/4"Ø
KITCHEN SINK	SK	3/4"Ø	3/4"Ø	1-1/2"Ø	1-1/4"Ø
WATER CLOSET	WC	--	1"Ø	4"Ø	2"Ø
FLOOR DRAINS	F.D.	--	--	4"Ø	1-1/2"Ø
HOSE BIBS	H.B.	3/4"Ø	3/4"Ø	--	--
HUB DRAIN	H.D.	--	--	4"Ø	1-1/2"Ø
CLOTHES WASH	--	3/4"Ø	3/4"Ø	1-1/2"Ø	1-1/4"Ø
MOP SINK	MS	1/2"Ø	1/2"Ø	3"Ø	1-1/4"Ø
HAND SINK	SK-	1/2"Ø	1/2"Ø	1-1/2"Ø	1-1/2"Ø

DWG No.
M202

Sample takeoff prepared by ABLE Estimating | ableestimating.com | Client details removed



20x12 Duct	26.2 FT
20x10 Duct	54.8 FT
12x8 Duct	141.2 FT
14x14 Duct	35.5 FT
14x6 Duct	20.8 FT
16x12 Duct	87.4 FT
12x10 Duct	42.5 FT
16x10 Duct	17.8 FT
20x16 Duct	44.6 FT
8" Dia Duct	43.7 FT
6" Dia Duct	15.2 FT
10" Dia Duct	15.1 FT
THERMOSTAT	1.0 EA
14"x6" S-1	6.0 EA
12"x6" S-1	3.0 EA
ERV-1	1.0 EA
FU-2	1.0 EA
FU-3	1.0 EA
FU-1	1.0 EA
Balancing Damper	2.0 EA
Fire Damper	11.0 EA
S/A DUCTWORK BE ...	515.1 FT
EXISTING AIR INTAK...	25.7 FT
7"Ø VENT UP THRU T...	8.6 FT

GENERAL NOTES:

1. DUCT SIZES REFLECTED ON DRAWING REFERENCE FREE AREA REQUIREMENTS. CONTRACTOR TO MAINTAIN REQUIRED FREE AREA SHOWN ON DRAWINGS UNLESS OTHERWISE NOTED. DUCTS TO BE RUN IN ATTIC SPACE IN INSULATED CHASE COVERED BY ATTIC INSULATION TO MAINTAIN. ALL DUCTS TO BE INSULATED AS PER SPECIFICATIONS.
2. ALL PENETRATIONS THROUGH REQUIRED FIRE SEPARATIONS (WALL OR CEILINGS/FLOORS) BY MECHANICAL COMPONENTS ARE REQUIRED TO BE PROTECTED BY FIRE DAMPERS, OR APPROVED FIRE-STOPPING MATERIALS. COORDINATE WITH ARCH DRAWINGS FOR REQUIRED FIRE SEPARATIONS.
3. ALL BUILDING EXHAUST AIR OUTLETS AND INTAKES OUTDOOR AIR INTAKES TO BE A MINIMUM OF 10FT APART ON BUILDING EXTERIOR
4. COORDINATE FINAL LOCATION OF EQUIPMENT, AIR OUTLETS, AND DUCTS WITH STRUCTURE, REELECTED CEILING PLAN, LIGHTING LAYOUT, AND FIRE PROTECTION SYSTEM.
5. INSTALL EQUIPMENT TO PROVIDE SERVICE CLEARANCES AS RECOMMENDED BY MANUFACTURER AND AS REQUIRED BY CODE. PROVIDE CLEAR LABELING OF FILTER PANELS VERIFY ADEQUATE ACCESS FOR ROUTINE MAINTENANCE
7. MOUNT ALL OTHER THERMOSTATS 5'-0" A.F.F., MIN.
8. ANY CONTROL WIRING ROUTED THROUGH RETURN AIR PLENUMS NOT INSTALLED WITHIN CONDUIT SHALL BE FT6 PLENUM FIRE RATED LOW VOLTAGE CONTROL WIRING.

KEY NOTES:

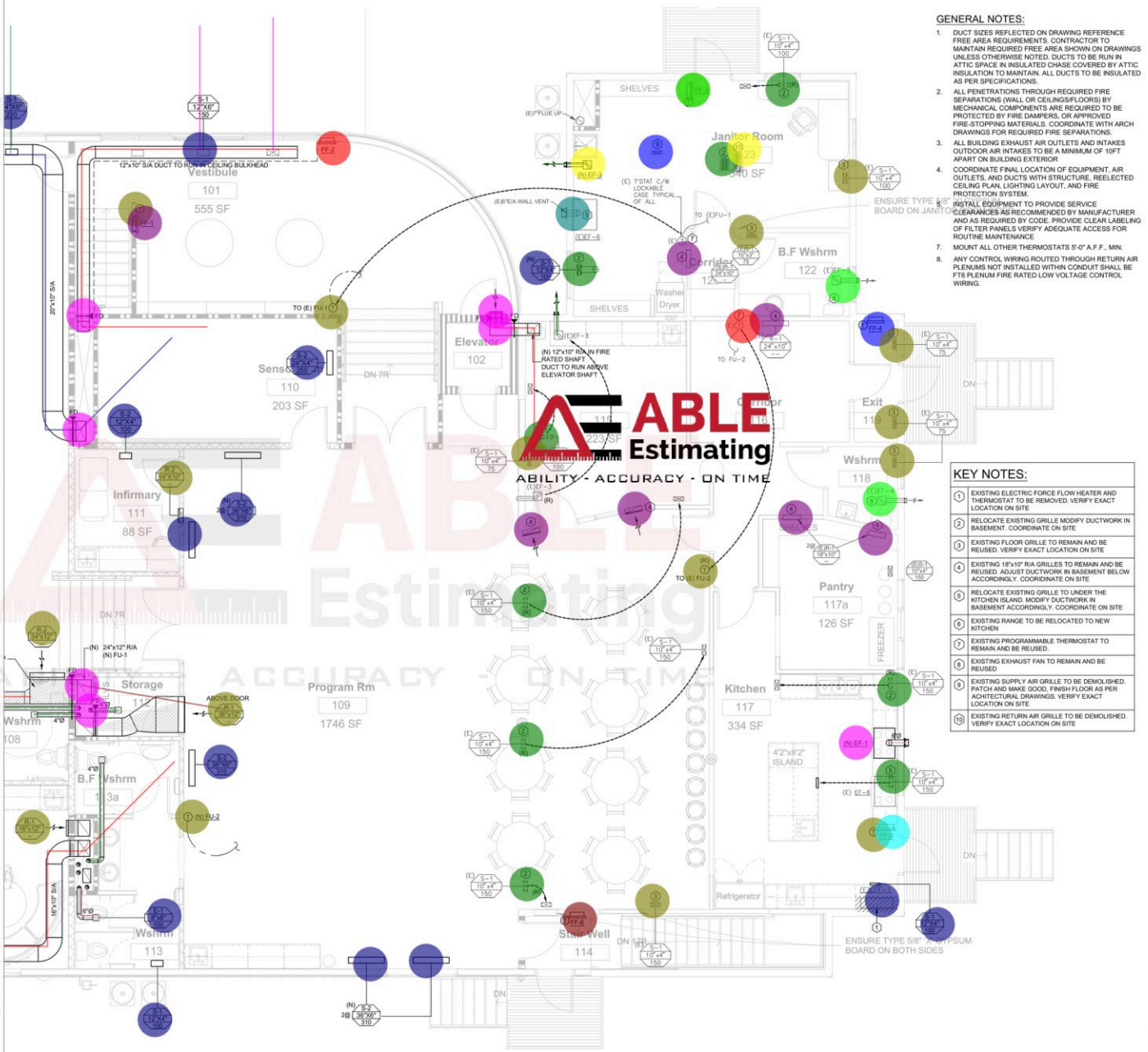
1. EXISTING FU-1 (2 TON FURNACE) TO REMAIN AND BE RE-USED. VERIFY EXACT LOCATION ON SITE
2. EXISTING FU-2 (4 TON FURNACE) TO REMAIN AND BE RE-USED. VERIFY EXACT LOCATION ON SITE
3. EXISTING FU-3 (3 TON FURNACE) TO REMAIN AND BE RE-USED. VERIFY EXACT LOCATION ON SITE
4. EXISTING AIR INTAKE WALL CAP AND DUCTWORK TO REMAIN AND BE REUSED. VERIFY EXACT LOCATION ON SITE
5. EXISTING 7"Ø VENT UP THRU THE ROOF TO REMAIN AND BE REUSED. VERIFY EXACT LOCATION ON SITE
6. EXISTING 12"x12" SUPPLY AIR DUCTWORK IN CEILING SPACE TO REMAIN AND BE REUSED. VERIFY EXACT LOCATION ON SITE.
7. EXISTING 22"x12" SUPPLY AIR DUCTWORK IN CEILING SPACE TO REMAIN AND BE REUSED. VERIFY EXACT LOCATION ON SITE.
8. EXISTING 18"X12" SUPPLY AIR DUCTWORK IN CEILING SPACE SERVING MAIN FLOOR TO REMAIN AND BE REUSED. VERIFY EXACT LOCATION ON SITE.
9. NEW SUPPLY AIR DUCTWORK CONNECT TO EXISTING. COORDINATE ON SITE
10. EXISTING SUPPLY OR RETURN AIR GRILLE SERVING FLOOR ABOVE TO BE DEMOLISHED. VERIFY EXACT LOCATION ON SITE
11. EXISTING 6"Ø S/A DUCT TO BE RELOCATED WITH GRILLE AS SHOWN IN NEW HVAC PLAN DWG. M300
12. EXISTING S/A DUCT SERVING MAIN FLOOR TO REMAIN AND BE REUSED. VERIFY EXACT LOCATION ON SITE
13. EXISTING S/A GRILLE SERVING MAIN FLOOR TO REMAIN AND BE REUSED. VERIFY EXACT LOCATION ON SITE
14. NEW RETURN AIR DUCT CONNECT TO EXISTING. VERIFY EXACT CONNECTION ON SITE
15. EXISTING S/A DUCTWORK SERVING BASEMENT TO REMAIN AND BE REUSED. VERIFY EXACT LOCATION ON SITE
16. EXISTING R/A DUCTWORK SERVING MAIN FLOOR TO REMAIN AND BE REUSED. VERIFY EXACT LOCATION ON SITE
17. EXISTING THERMOSTAT SERVING (E) FU-3 TO REMAIN AND BE REUSED.

DWG NO.

M301

Sample takeoff prepared by ABLE Estimating | ableestimating.com | Client details removed

16x10 Duct	94.5 FT
20x10 Duct	41.4 FT
4" Dia Duct	33.2 FT
6" Dia Duct	5.8 FT
12"x6" S-1	6.0 EA
12"x4" S-1	2.0 EA
14"x6" S-1	4.0 EA
10"x6" S-1	1.0 EA
36"x6" S-2	5.0 EA
12"x4" S-2	1.0 EA
24"x4" S-2	1.0 EA
16"x12" R-1	2.0 EA
34"x12" R-2	1.0 EA
14"x10" R-2	1.0 EA
36"x12" R-1	1.0 EA
8"x8"x E-1	1.0 EA
24x12 Duct	12.1 FT
THERMOSTAT	7.0 EA
FF1	1.0 EA
EF2	1.0 EA
14"x6" S-1	1.0 EA
14x6 Duct	10.7 FT
FF2	1.0 EA
FF3	1.0 EA
EF3	1.0 EA
FF4	1.0 EA
EF1	1.0 EA
FF5	1.0 EA
FF6	1.0 EA
Relocate Grill	9.0 EA
Reused Floor Grille	7.0 EA
Removed Electric Force...	1.0 EA
Reused18"x10" R/A Gril...	6.0 EA
Relocated Range	1.0 EA
Reused PROGRAMMA...	1.0 EA
Reused EXHAUST FAN	2.0 EA
Remove Return Grille	1.0 EA
SUPPLY AIR GRILLE T...	1.0 EA
Fire Damper	7.0 EA



FURNITURE SCHEDULE

IMAGE	COUNT	MANUFACTURER	PRODUCT	LINK
	4	IKEA	KALLAX - SHELF UNIT, WHITE STAINED OAK EFFECT, 147x147 cm (57 7/8x57 7/8 ") STORAGE UNITS (CUBBIES)	https://www.ikea.com/ca/en/p/kallax-shelf-unit-white-stained-oak-effect-10324513/#content
	4	GLOBAL INDUSTRIAL	GLOBAL INDUSTRIAL&TRI-TEMP TOP LOAD WATER DISPENSER, BLACK WATER DISPENSERS	https://www.globalindustrial.ca/p/tri-temp-top-load-water-dispenser-black-with-stainless?ref=-
	4	OFFICE TO GO	MVL13008 CRAFT | HALF ROUND 40" UNIT TC62 / SHADOW / TERRACE (VIC) / UPHOLSTERY GRADE 01 - GLIDE BLACK OTTOMANS	https://www.officestogo.com/en-ca/products/model/lounge-seating/craft/MVL13008
	1	BODY SOLID	GSR10 STABILITY BALL STORAGE RACK SKU: GSR10 BALL STORAGE RACK	https://fitnessexperience.ca/products/body-solid-gsr10-stability-ball-storage-rack
	1	FRENCH FITNESS	FRENCH FITNESS ANTI BURST STABILITY EXERCISE BALL SET OF 3 (55 TO 75 CM) EXERCISE BALLS	https://frenchfitness.com/gym-accessories/medicine-exercise-balls/french-fitness-anti-burst-stability-exercise-ball-set-of-55-65-75-cm/
		ECHELON	ECHELON ST1 STRIDE TREADMILL ECTST1 TREADMILL	https://echelonfit.ca/products/echelon-stride-auto-fold-connected-treadmill
		OFFICE TO GO	OTG13080 HARDY | SWIVEL LOUNGE CHAIR WITH GLIDES TC62 / SHADOW / TERRACE (VIC) / UPHOLSTERY GRADE 01 CHAIRS	https://www.officestogo.com/en-ca/products/model/lounge-seating/hardy/OTG13080
		GLOBAL INDUSTRIAL	ADA ACTIVITY TABLE - ROUND - 48" DIAMETER - ADJ. HEIGHT - GRAY NEBULA ITEM #: WBB43737 TABLES	https://www.globalindustrial.ca/p/activity-table-48-diameter-round-ada-compliant-adjustable-height-gray-nebula?ref=-42
		OFFICE TO GO	MVL13010 - CRAFT | CURVE-120 DEGREE UNIT tt12 / OZONE / ILLUSION (GEO) / UPHOLSTERY GRADE 01 - GLIDE BLACK SOFAS	https://www.officestogo.com/en-ca/products/model/lounge-seating/craft/MVL13010

IMAGE	COUNT	MANUFACTURER	PRODUCT	LINK
	48	GLOBAL INDUSTRIAL	JONTI-CRAFT® BERRIES® PLASTIC CHAIR WITH CHROME - PLATED LEGS - 18" HT - BLUE ITEM #: WBB7504B1 KIDS CHAIRS	https://www.globalindustrial.ca/p/berries-plastic-chair-with-chrome-plated-legs-18-ht-blue?ref=5
	9 (5 SETS OF 2)	GLOBAL INDUSTRIAL	INTERION® STEEL SHOP STOOL W/BACKREST AND HARDBOARD SEAT - ADJUSTABLE HEIGHT 19"-27" - BLACK - 2PK ITEM #: WBB1574494 STOOLS	https://www.globalindustrial.ca/p/black-framed-stool-round-hardboard-18h-seat-w-chrome-plated-adjustable-height-inserts?ref=-42
	1	ORTHO CANADA	V-333-B STERLING 3 SECTION TABLE W/FOOT PEDAL, BLACK MEDICAL BED	https://www.orthocanada.com/en/steers-sterling-3-section-entry-level-table
	1	OFFICE TO GO	FORMAT | HIGH BACK SYNCHRO-TILTER WITH ADJUSTABLE HEADREST TC62 / SHADOW / TERRACE (VIC) / UPHOLSTERY GRADE 01 2.5" DUAL WHEEL RUBBER COATED CASTER OFFICE CHAIRS	https://www.officestogo.com/en-ca/products/model/mesh-seating/format/MVL3192
	5	OFFICE TO GO	NLP106 - NEWLAND | "L" SHAPED SUITE - 72"W X 72"D FINISH SELECTION : NOCE MEDIO DESKS	https://www.officestogo.com/en-ca/products/model/newland-desking/newland-packages/NLP106
	4	IKEA	GALANT - STORAGE COMBINATION WITH FILING, BLACK STAINED ASH VENEER, 80x160 cm (31 1/2x63 ") TALL FILING CABINETS	https://www.ikea.com/ca/en/p/galant-storage-combination-with-filing-black-stained-ash-veneer-s39285568/
	3	IKEA	GALANT - DRAWER UNIT/DROP FILE STORAGE, BLACK STAINED ASH VENEER, 80x80 cm (31 1/2x31 1/2 ") FILING CABINETS	https://www.ikea.com/ca/en/p/galant-drawer-unit-drop-file-storage-black-stained-ash-veneer-30365164/
	10	OFFICE TO GO	MVL2836 - PART-TIME | ARMLESS TASK CHAIR TC62 / SHADOW / TERRACE (VIC) / UPHOLSTERY GRADE 01 BOARD ROOM OFFICE CHAIRS	https://www.officestogo.com/en-ca/products/model/task-seating/part-time/MVL2836
	1	OFFICE TO GO	NL120BT NEWLAND | 120" BOAT SHAPED CONFERENCE TABLE FINISH SELECTION : NOCE MEDIO BOARD ROOM TABLE	https://www.officestogo.com/en-ca/products/model/tables/newland-boardroom-tables/NL120BT

- (147cmx147cm)Storage ... 4.0 EA
- Water Dispensers 4.0 EA
- Ottomans Sofa 4.0 EA
- Ball Storage Rack 1.0 EA
- Excercise Balls 1.0 EA
- Treadmill 1.0 EA
- Chairs 18 EA 1.0 EA
- 48" Diameter Tables 15 EA 1.0 EA
- sofas 10 EA 1.0 EA
- Kids Chairs 48 EA 1.0 EA
- Stools 9 EA 5 Sets of 2 1.0 EA
- Medicle Bed 1.0 EA
- Office Chairs 5 EA 1.0 EA
- Desks 5 EA 1.0 EA
- Tall Filing Cabintes 4.0 EA
- FIling Cabinets 3.0 EA
- Borad Room Office Chair... 1.0 EA
- Board Room Table 1.0 EA

DWG No
A006

ABLE Estimating
ABILITY - ACCURACY - ON TIME

APPLIANCE SCHEDULE

IMAGE	COUNT	MANUFACTURER	PRODUCT	LINK
	1	KITCHEN AID	30 CU. FT. 48" BUILT-IN SIDE-BY-SIDE REFRIGERATOR WITH PRINTSHIELD™ FINISH MODEL: KBSN708MPS STAINLESS STEEL REFRIGERATOR	https://www.kitchenaid.ca/en_ca/major-appliances/refrigeration/built-in-refrigerators/built-in-side-by-side/p.30-cu.-ft.-48-built-in-side-by-side-refrigerator-with-printshield-finish.kbsn708mps.html?originVariantsOrder=.KI3
	2	KITCHEN AID	30-INCH 5 ELEMENTS ELECTRIC DOUBLE OVEN CONVECTION RANGE MODEL: YKFED500ESS STAINLESS STEEL RANGE	https://www.kitchenaid.ca/en_ca/major-appliances/ranges/electric-ranges/electric-double-oven-ranges/p.30-inch-5-elements-electric-double-oven-convection-range.ykfed500ess.html?originVariantsOrder=.SS,A5
	2	KITCHEN AID	900-WATT MICROWAVE WITH 7 SENSOR FUNCTIONS - 30" MODEL: YKMHS120ES STAINLESS STEEL RANGE HOOD	https://www.kitchenaid.ca/en_ca/major-appliances/hoods-and-vents/microwave-hood-combination/p.900-watt-microwave-with-7-sensor-functions-30.ykmhs120es.html?originVariantsOrder=.A5,WH,SS
	4	KITCHEN AID	44 DBA DISHWASHER WITH FREEFLEX™ THIRD RACK AND LED INTERIOR LIGHTING MODEL: KDTM704KPS STAINLESS STEEL DISHWASHER	https://www.kitchenaid.ca/en_ca/major-appliances/dishwashers/integrated-control/p.44-dba-dishwasher-with-freeflex-third-rack-and-led-interior-lighting.kdtm704kps.html?originVariantsOrder=.KI3
	1	WHIRLPOOL	16 CU. FT. CHEST FREEZER WITH SHELVES MODEL: WZC5216LW WHITE CHEST FREEZER	https://www.whirlpool.ca/en_ca/kitchen/refrigeration/freezers/chest/p.16-cu.-ft.-chest-freezer-with-shelves.wzc5216lw.html?originVariantsOrder=.WH
		AID	22 CU.FT. 36-INCH WIDTH COUNTER DEPTH FRENCH DOOR REFRIGERATOR WITH INTERIOR DISPENSE MODEL: KRFC302ESS STAINLESS STEEL REFRIGERATOR	https://www.kitchenaid.ca/en_ca/major-appliances/refrigeration/refrigerators/french-door-refrigerators/p.22-cu.ft.-36-inch-width-counter-depth-french-door-refrigerator-with-interior-dispense.krfc302ess.html
		AID	21 3/4" COUNTERTOP CONVECTION MICROWAVE OVEN - 1000 WATT MODEL: KMCC5015GSS STAINLESS STEEL COUNTERTOP MICROWAVE	https://www.kitchenaid.ca/en_ca/major-appliances/microwaves/countertop/p.21-3-4-countertop-convection-microwave-oven-1000-watt.kmcc5015gss.html?originVariantsOrder=.A5,SS
		OL	4.0 CU.FT I.E.C. GAS STACKED LAUNDRY CENTER 9 WASH CYCLES AND AUTODRY™ MODEL: WGT4027HW WHITE STACKING WASHER & DRYER	https://www.whirlpool.ca/en_ca/laundry/laundry-sets/washer-dryer-combination/p.4.0-cu.ft-i.e.c.-gas-stacked-laundry-center-9-wash-cycles-and-autodry.wgt4027hw.html?originVariantsOrder=.WH

WASHROOM ACCESSORIES SCHEDULE

ROOM #	ROOM NAME	COUNT	MANUFACTURER	PRODUCT	NOTES
107	WASHROOM	1	FROST	941 - STOCK SERIES MIRRORS 941-24X36	WASHROOM MIRROR
107	WASHROOM	1	TORK	TORK® OPTICORE® BATH TISSUE DISPENSER - TRIPLE ROLL TORK®: 565828	TOILET PAPER DISPENSER
107	WASHROOM	1	ULINE	ULINE AUTO FOAMING SOAP DISPENSER - 1,000 ML COLOUR: GRAY	SOAP DISPENSER
107	WASHROOM	1	KIMBERLY-CLARK	KIMBERLY-CLARK® AUTOMATIC PAPER TOWEL DISPENSER COLOUR: WHITE	PAPER TOWEL DISPENSER
107	WASHROOM	1	SIMPLEHUMAN	SIMPLEHUMAN® OPEN TOP STAINLESS STEEL TRASH CAN - HALF ROUND, 16 GALLON	TRASH CAN
107	WASHROOM	1	FROST	STAINLESS STEEL ROBE HOOK 1138-S	HOOK
107	WASHROOM	1	ULINE	PLASTIC RESTROOM SIGN - UNISEX COLOUR: BLACK	WASHROOM SIGN
108	BARRIER FREE WASHROOM	1	[illegible]E	[illegible]ALA KARE™ BABY CHANGING STATION - HORIZONTAL, PLASTIC	CHANGE TABLE
108	BARRIER FREE WASHROOM	1	[illegible]	[illegible]STOCK SERIES MIRRORS	WASHROOM MIRROR
108	BARRIER FREE WASHROOM	1	TORK	[illegible]SUE DISPENSER - TRIPLE ROLL	TOILET PAPER DISPENSER
108	BARRIER FREE WASHROOM	1	ULINE	ULINE AUTO FOAMING SOAP DISPENSER - 1,000 ML COLOUR: GRAY	SOAP DISPENSER
108	BARRIER FREE WASHROOM	1	KIMBERLY-CLARK	KIMBERLY-CLARK® AUTOMATIC PAPER TOWEL DISPENSER COLOUR: WHITE	PAPER TOWEL DISPENSER
108	BARRIER FREE WASHROOM	1	SIMPLEHUMAN	SIMPLEHUMAN® OPEN TOP STAINLESS STEEL TRASH CAN - HALF ROUND, 16 GALLON	TRASH CAN
108	BARRIER FREE WASHROOM	1	FROST	STAINLESS STEEL 1 ¼" DIAMETER GRAB BARS, WHITE FINISH 1003-W 30"X30"	CURVED GRAB BAR
108	BARRIER FREE WASHROOM	1	FROST	STAINLESS STEEL 1 ¼" DIAMETER GRAB BARS, WHITE FINISH 1001-W24 SERIES	STRAIGHT GRAB BAR
108	BARRIER FREE WASHROOM	1	FROST	STAINLESS STEEL ROBE HOOK 1138-S	HOOK
108	BARRIER FREE WASHROOM	1	ULINE	PLASTIC ACCESSIBLE RESTROOM SIGN - UNISEX COLOUR: BLACK	BARRIER FREE WASHROOM SIGN
113	WASHROOM	2	FROST	941 - STOCK SERIES MIRRORS 941-24X36	WASHROOM MIRROR
113	WASHROOM	2	TORK	TORK® OPTICORE® BATH TISSUE DISPENSER - TRIPLE ROLL TORK®: 565828	TOILET PAPER DISPENSER
113	WASHROOM	2	ULINE	ULINE AUTO FOAMING SOAP DISPENSER - 1,000 ML COLOUR: GRAY	SOAP DISPENSER
113	WASHROOM	1	KIMBERLY-CLARK	KIMBERLY-CLARK® AUTOMATIC PAPER TOWEL DISPENSER COLOUR: WHITE	PAPER TOWEL DISPENSER
113	WASHROOM	1	SIMPLEHUMAN	SIMPLEHUMAN® OPEN TOP STAINLESS STEEL TRASH CAN - HALF ROUND, 16 GALLON	TRASH CAN
113	WASHROOM	1	ULINE	PLASTIC ACCESSIBLE RESTROOM SIGN - UNISEX COLOUR: BLACK	BARRIER FREE WASHROOM SIGN
113a	BARRIER FREE WASHROOM	1	KOALA KARE	KOALA KARE™ BABY CHANGING STATION - HORIZONTAL, PLASTIC	CHANGE TABLE
113a	BARRIER FREE WASHROOM	1	TORK	TORK® OPTICORE® BATH TISSUE DISPENSER - TRIPLE ROLL TORK®: 565828	TOILET PAPER DISPENSER
113a	BARRIER FREE WASHROOM	1	KIMBERLY-CLARK	KIMBERLY-CLARK® AUTOMATIC PAPER TOWEL DISPENSER COLOUR: WHITE	PAPER TOWEL DISPENSER
113a	BARRIER FREE WASHROOM	1	SIMPLEHUMAN	SIMPLEHUMAN® OPEN TOP STAINLESS STEEL TRASH CAN - HALF ROUND, 16 GALLON	TRASH CAN
113a	BARRIER FREE WASHROOM	1	FROST	STAINLESS STEEL 1 ¼" DIAMETER GRAB BARS, WHITE FINISH 1003-W 30"X30"	CURVED GRAB BAR
113a	BARRIER FREE WASHROOM	1	FROST	STAINLESS STEEL 1 ¼" DIAMETER GRAB BARS, WHITE FINISH 1001-W24 SERIES	STRAIGHT GRAB BAR
113a	BARRIER FREE WASHROOM	1	FROST	STAINLESS STEEL ROBE HOOK 1138-S	HOOK

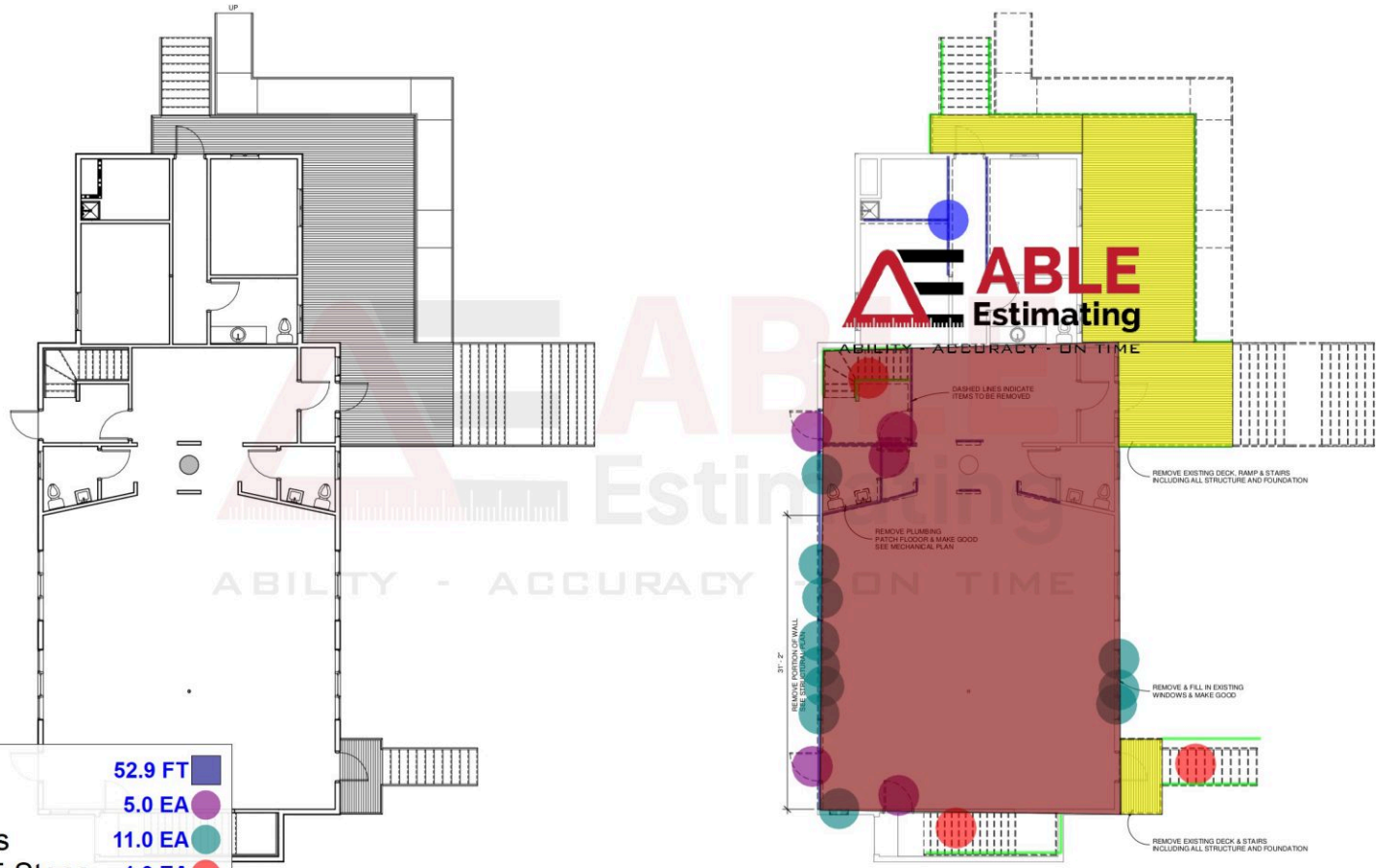
PROVIDE SOLID BLOCKING AT ALL ACCESSORY LOCATIONS

- Refrigrator 2.0 EA
- Cooking Range 2.0 EA
- Range Hood 2.0 EA
- Dishwasher 2.0 EA
- Chest Freezer 1.0 EA
- Microwave Oven 1.0 EA
- Tacking Washer/Dryer 1.0 EA
- Stock Series Mirrors 3.0 EA
- Tissue Dispenser 4.0 EA
- Soap Dispenser 3.0 EA
- Paer Tower Dispenser 4.0 EA
- Stainless Steel Trash Can 4.0 EA
- Syainless Steel Robe H... 3.0 EA
- Plastis Resrtoom Sign 3.0 EA
- Baby Changing Staions 2.0 EA
- 30" Grab BArs 2.0 EA
- 24" Grab BArs 2.0 EA

DWG No

A007

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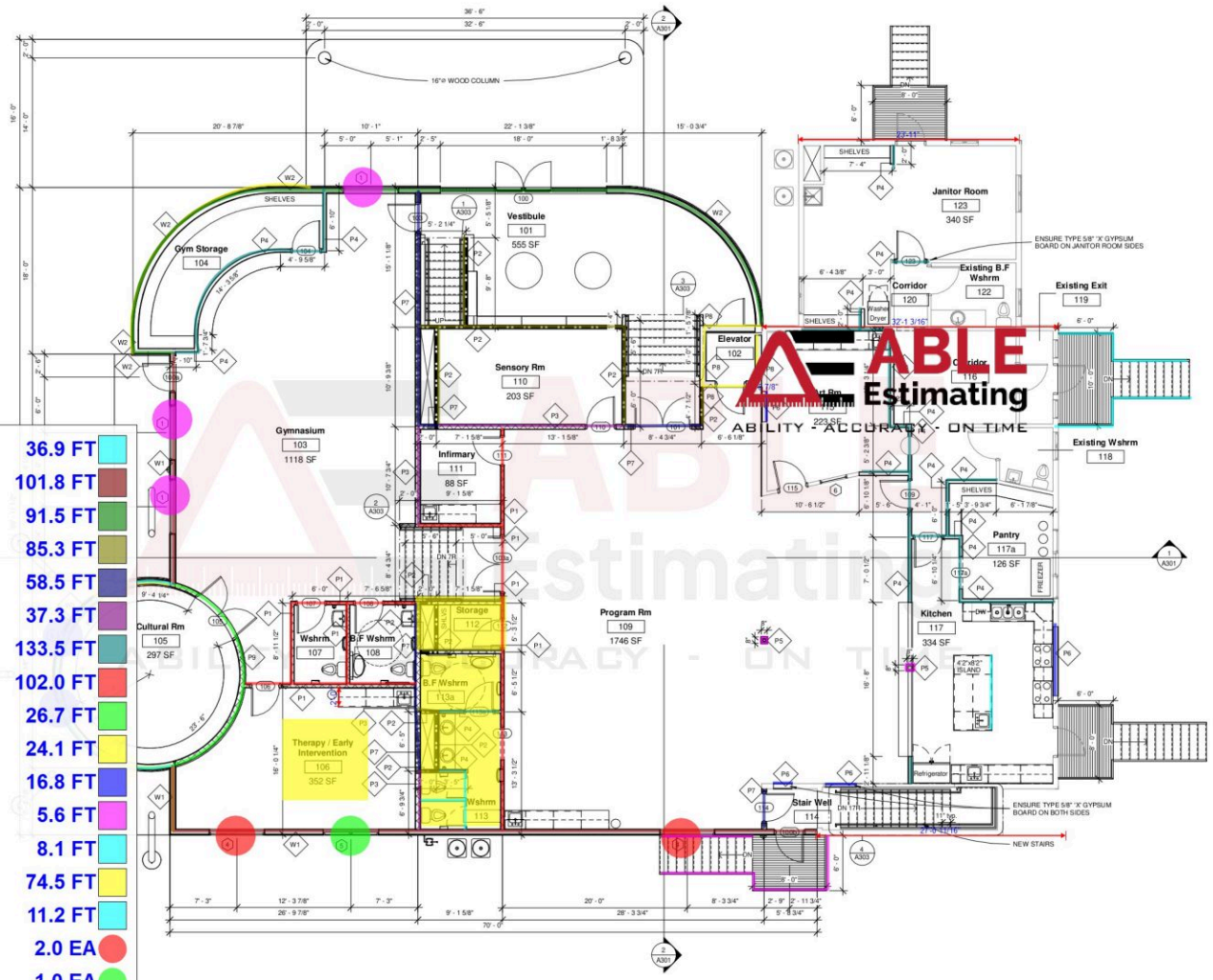


Remove WAll	52.9 FT
Remove Doors	5.0 EA
Remove Windows	11.0 EA
Remove Stairs,15 Steps	1.0 EA
Remove Stairs,12 Steps	1.0 EA
Remove Stairs,20 Steps	1.0 EA
Remove Railing	63.6 FT
Remove Deck	90.8 SQ FT
revised demo	1.0 EA
Remove Floor	270.7 SQ FT

2 Existing Main Floor - Demo.
3/16" = 1'-0"

DWG NO
A101

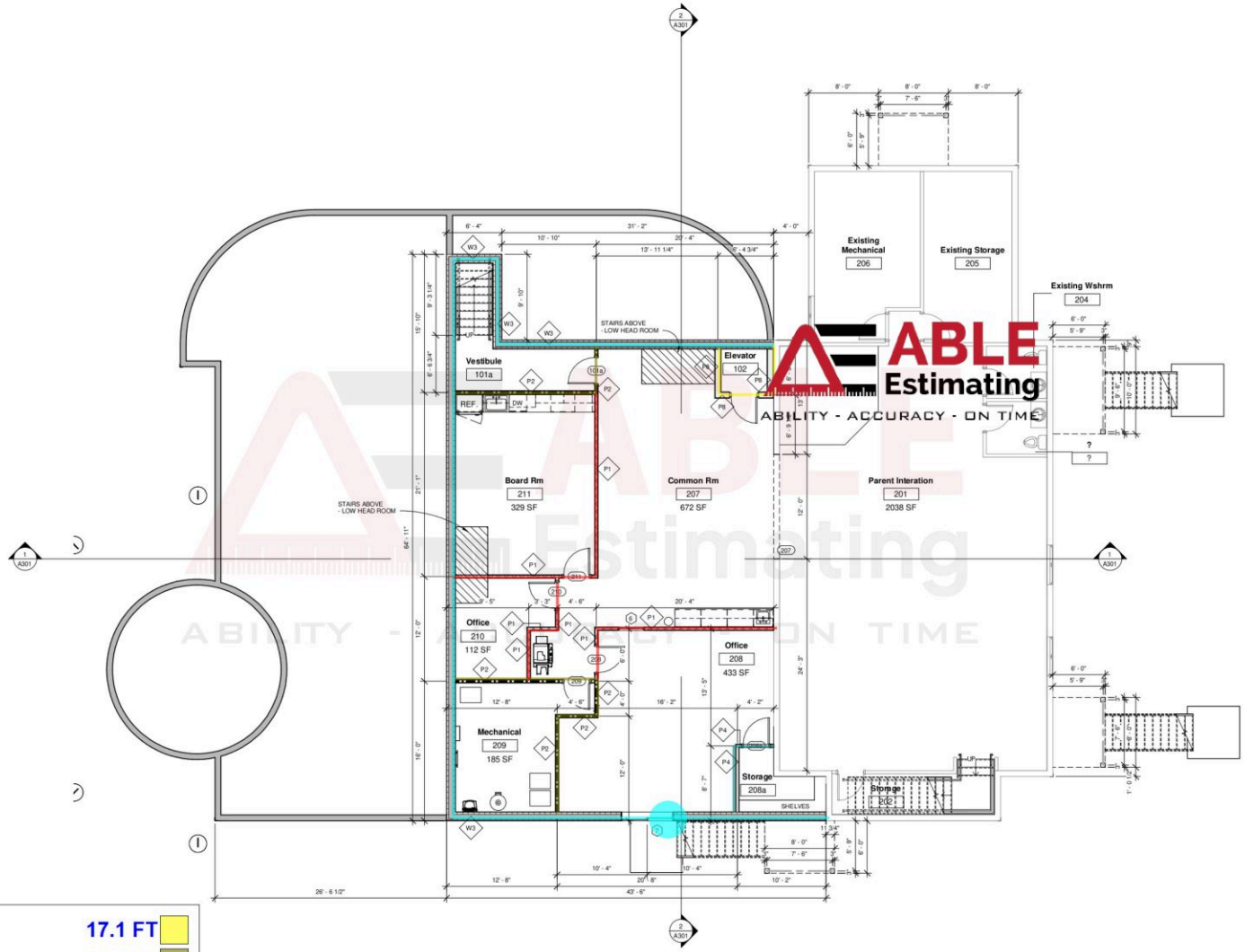
ABLE Estimating
ABILITY - ACCURACY - ON TIME



W3	36.9 FT
W1	101.8 FT
W2	91.5 FT
P2	85.3 FT
P7	58.5 FT
P3	37.3 FT
P4	133.5 FT
P1	102.0 FT
P9	26.7 FT
P8	24.1 FT
P6	16.8 FT
P5	5.6 FT
2X4 kNEE wALL	8.1 FT
EF03 8'	74.5 FT
Toilet Partions	11.2 FT
4	2.0 EA
5	1.0 EA
2	2.0 EA
3	2.0 EA
1	3.0 EA
Linear	35.7 FT
Linear	34.8 FT

Main Floor Plan
3/16" = 1'-0"

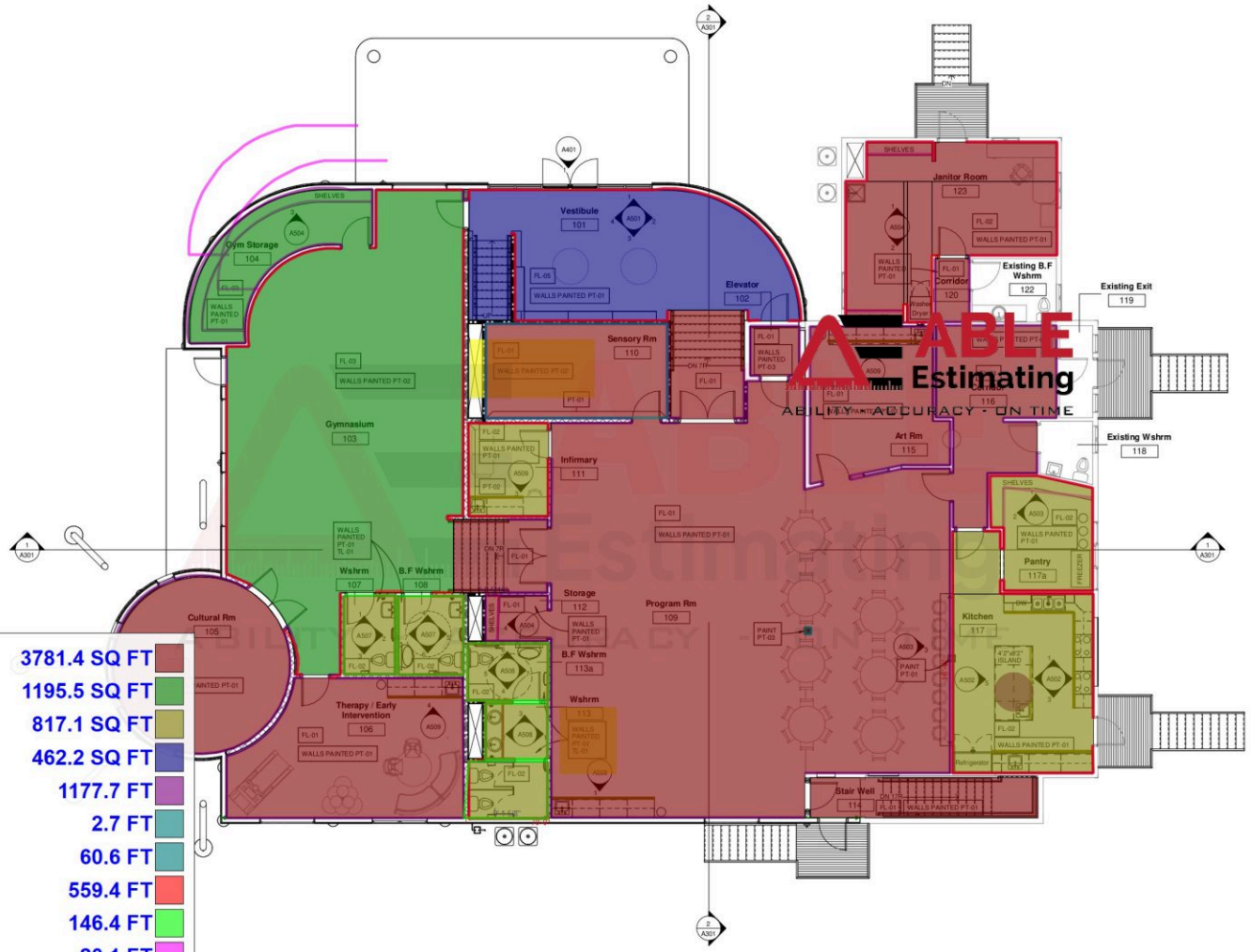
DWG NO
A103



P8	17.1 FT
P2	57.7 FT
P1	78.2 FT
P4	12.2 FT
W3	153.3 FT
7	1.0 EA

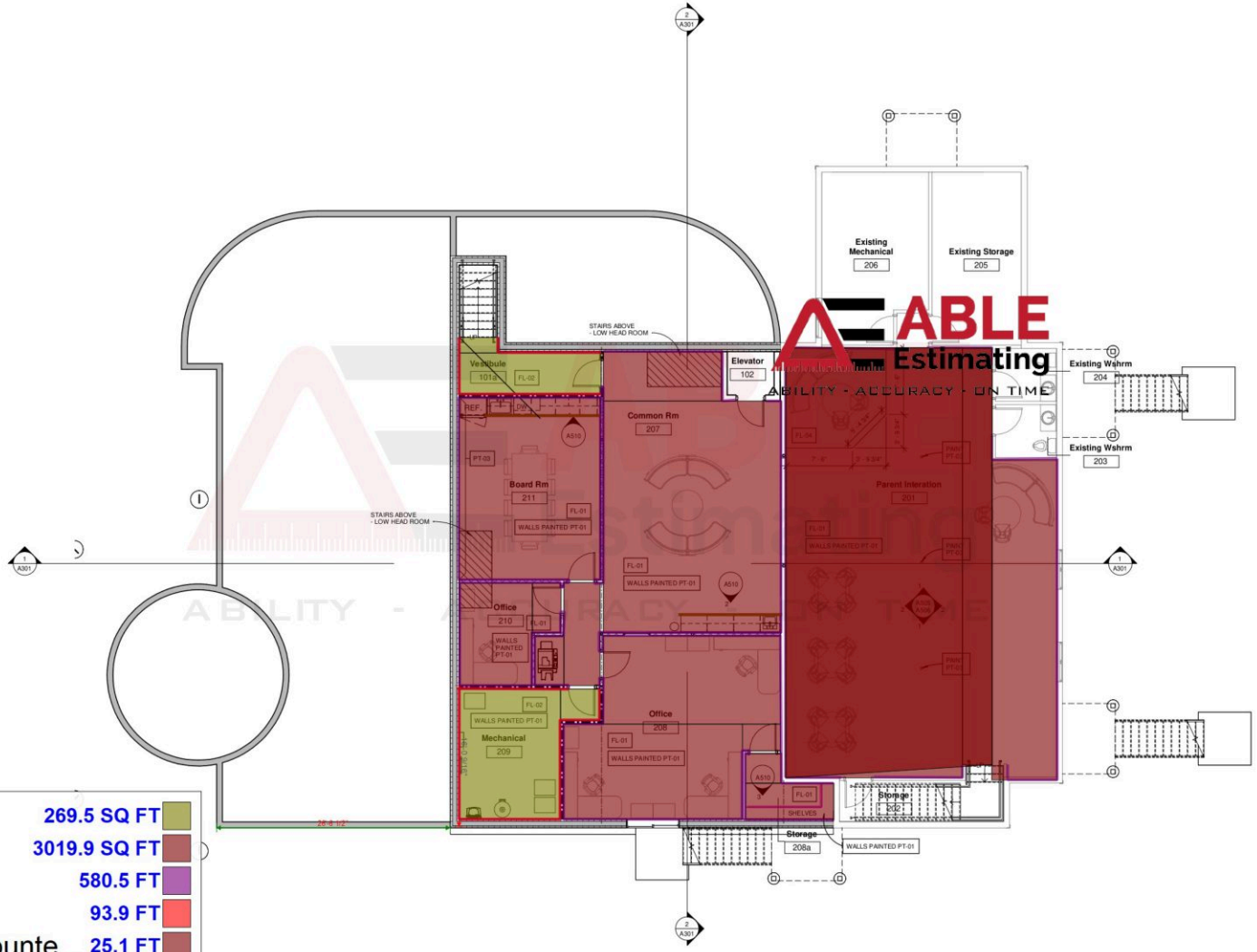
Basement Plan
3/16" = 1'-0"

DWG No
A104



FL01	3781.4 SQ FT
FL03	1195.5 SQ FT
FL02	817.1 SQ FT
FL05	462.2 SQ FT
BS01	1177.7 FT
PT03	2.7 FT
PT02	60.6 FT
BS02	559.4 FT
TL01 5' H	146.4 FT
LM-01 18" Shelves	20.1 FT
LM-02 18" Shelves	205.5 FT
CT01 24" Wide Counte...	72.7 FT
LM-02 24" Wide Lower ...	74.5 FT
LM-02 12" Wide Upper ...	66.5 FT
(4'-2"x8'-2") Kitchen Isla...	1.0 EA

DWG NO
A105



FL02	269.5 SQ FT
FL01	3019.9 SQ FT
BS01	580.5 FT
BS02	93.9 FT
CT01 24" Wide Counte...	25.1 FT
LM-02 24" Wide Lower ...	25.1 FT
LM-02 12" Wide Upper ...	25.1 FT
LM-02 18" Shelves	43.8 FT
Remove Floor	1126.2 SQ FT

DWG No
A106

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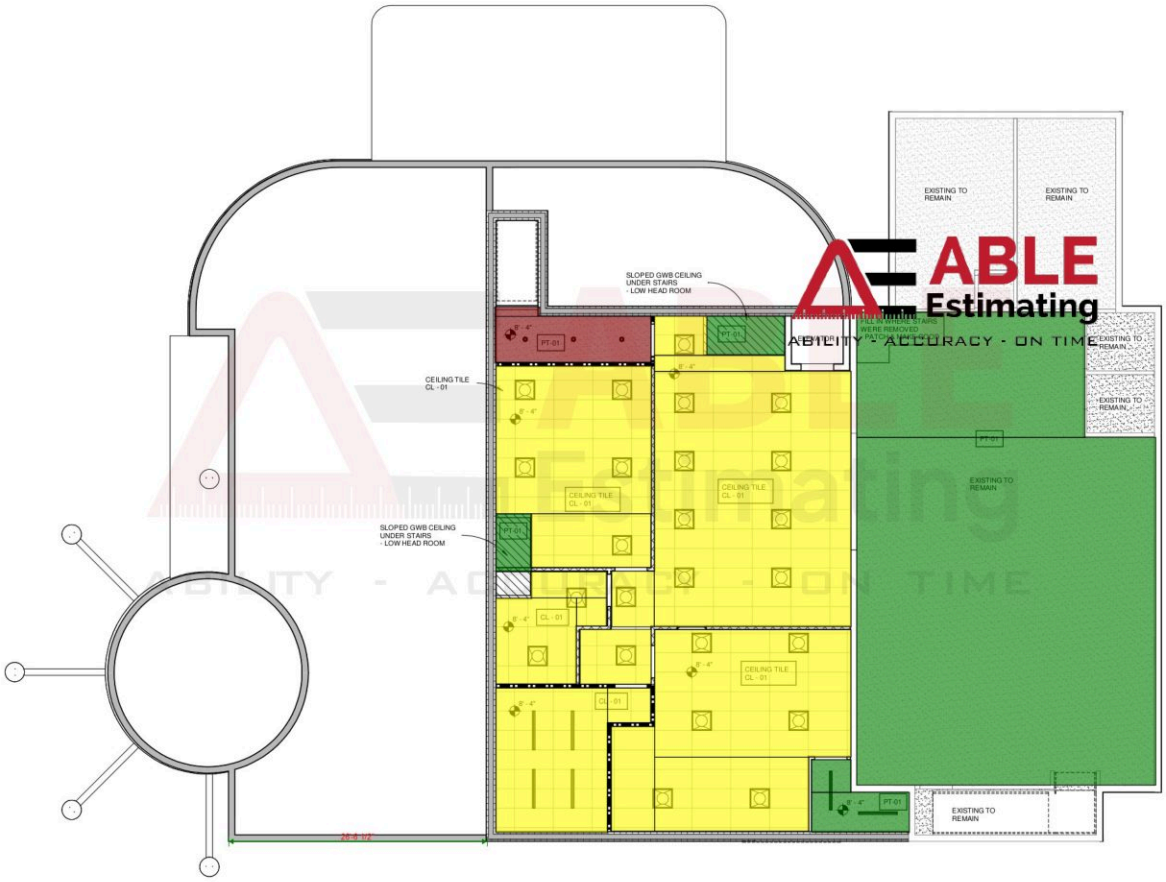


CL01	3467.0 SQ FT
CL02	462.3 SQ FT
9X9 tIMBER bEAM	64.0 FT
Level 4 Drywall (P...	1966.6 SQ FT
Level 3 Drywall (P...	156.8 SQ FT
PT01	25.6 SQ FT
24" sOFFIT	49.3 FT

ling Plan

DWG No
A107

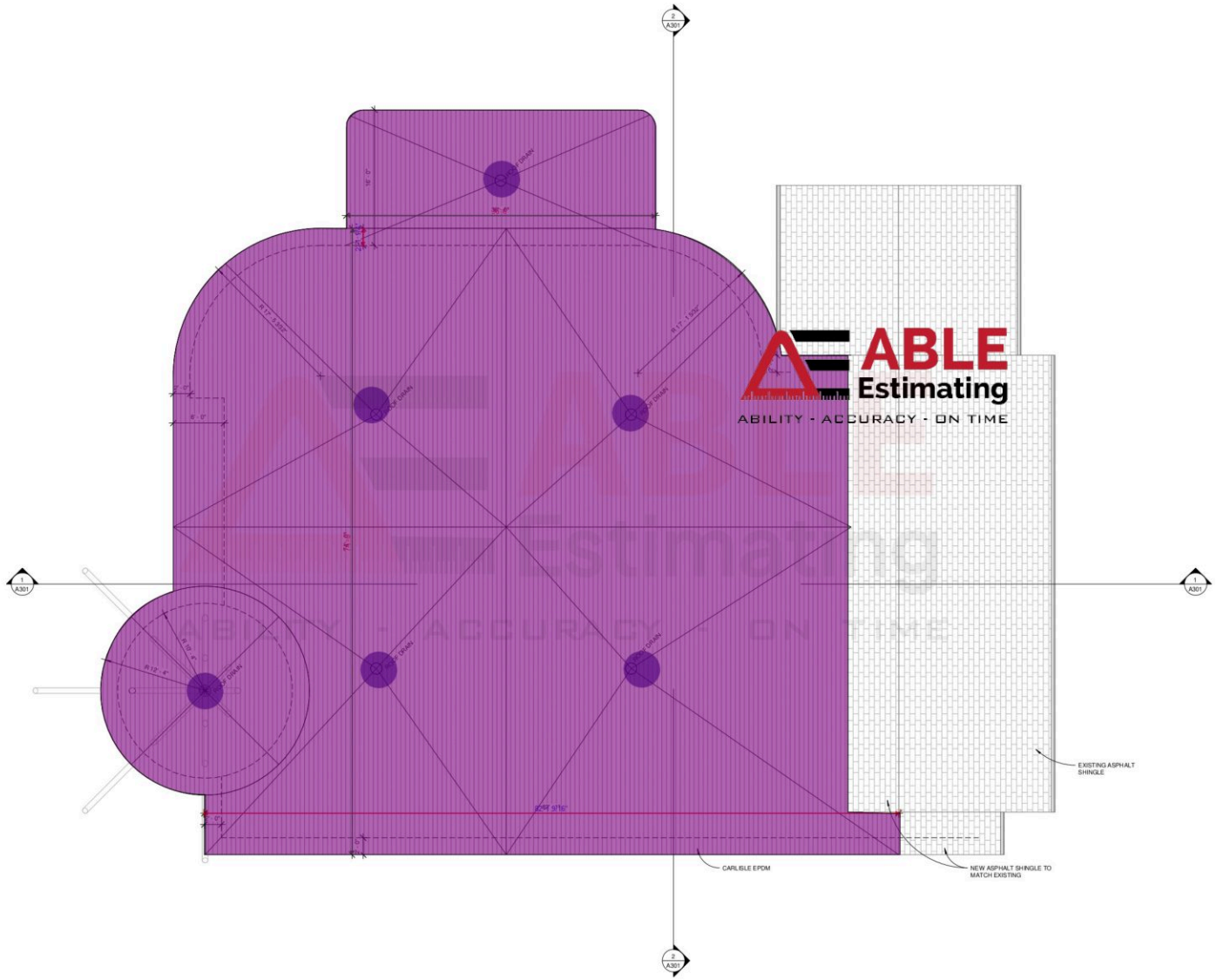
Sample takeoff prepared by ABLE Estimating | ableestimating.com | Client details removed



1 Basement - Reflected Ceiling Plan
3/16" = 1'-0"

CL01	1673.0 SQ FT
Level 3 Drywall (...	80.0 SQ FT
PT01	1508.7 SQ FT

DWG No
A108

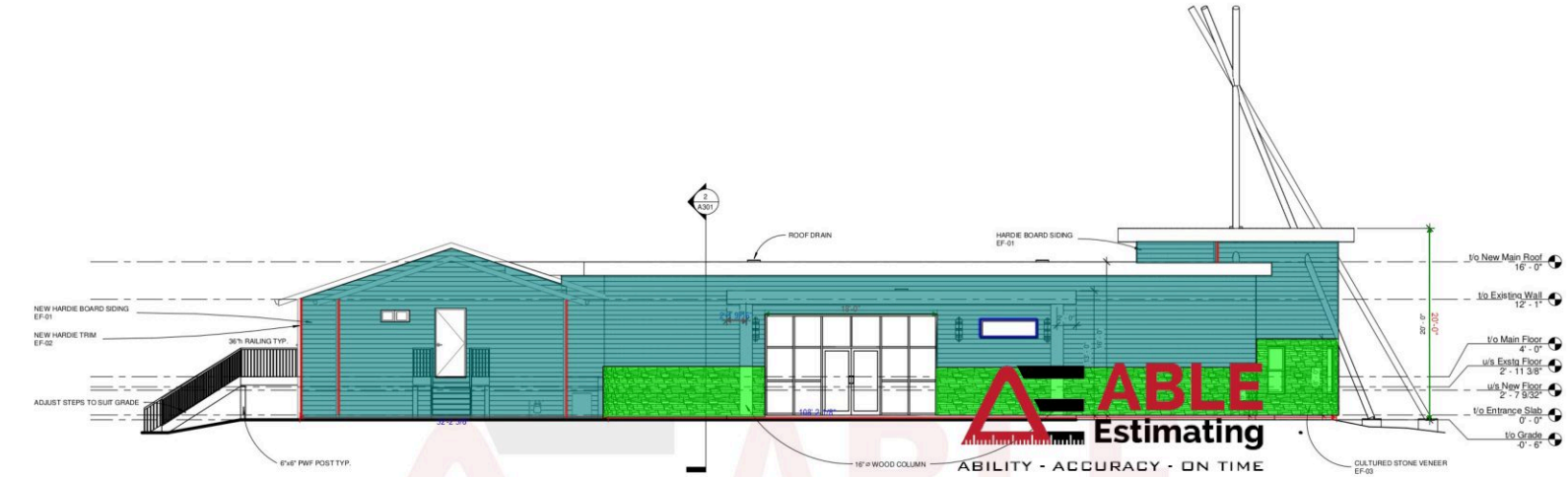


Roof Plan

DWG NO
A109

Roof Drains 6.0 EA
CARLISLE 60mil 6299.6 SQ FT

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1 North Elevation
3/16" = 1'-0"



2 East Elevation
3/16" = 1'-0"

EXTERIOR FINISHES

EF-01 BRAND: HARDIE BOARD SIDING
STYLE: SELECT CEDARMILL
COLOUR: TIMBER BARK

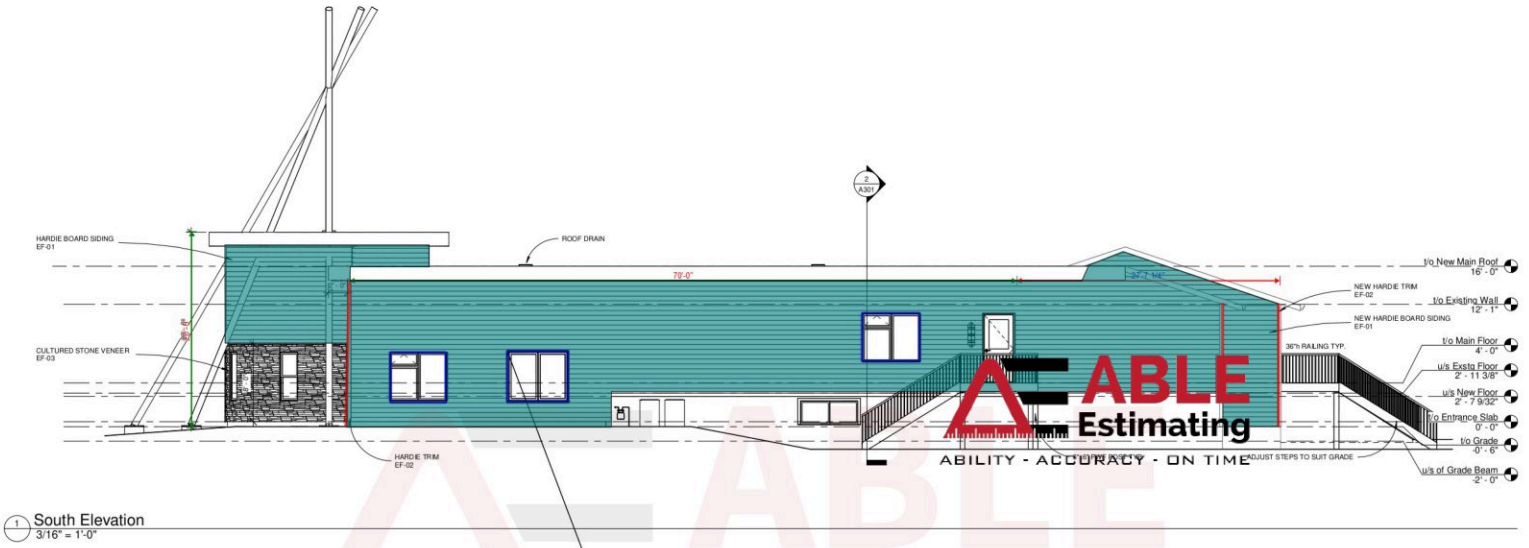
EF-02 BRAND: HARDIE TRIM
COLOUR: TIMBER BARK

EF-03 BRAND: CULTURED STONE
STYLE: COUNTRY LEDGESTONE
COLOUR: ASPEN
INSTALLATION: DRY STACK

EF01	1859.2 SQ FT
EF02	87.6 FT
EF03	322.9 SQ FT
wINDOW tRIMS	15.6 FT

DWG No
A201

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1 South Elevation
3/16" = 1'-0"

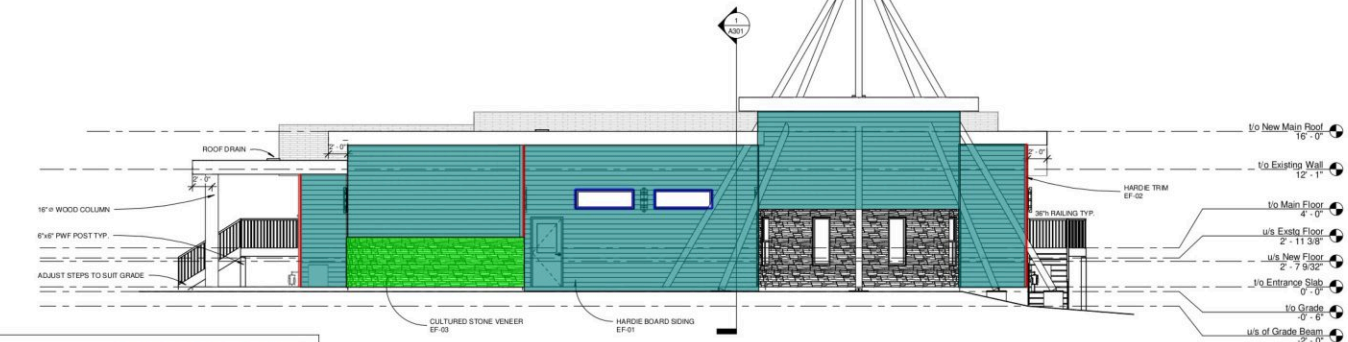
ABLE Estimating
ABILITY - ACCURACY - ON TIME

EXTERIOR FINISHES

EF-01 BRAND: HARDIE BOARD SIDING
STYLE: SELECT CEDARMILL
COLOUR: TIMBER BARK

EF-02 BRAND: HARDIE TRIM
COLOUR: TIMBER BARK

EF-03 BRAND: CULTURED STONE
STYLE: COUNTRY LEDGESTONE
COLOUR: ASPEN
INSTALLATION: DRY STACK



2 West Elevation
3/16" = 1'-0"

EF01	2161.0 SQ FT
EF03	95.2 SQ FT
EF02	71.9 FT
wINDOW tRIMS	98.1 FT

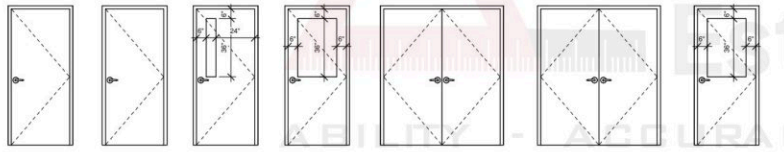
DWG No
A202

Door Schedule

Mark	From Room: Name	To Room: Name	Door Data				Hardware	Frame Data				Fire Rating	Comments
			Door Type	Door Finish	Dimensions Width	Dimensions Height		Frame Type	Jamb Width	Wall Thickeness	Frame Finish		
100	Vestibule	Exterior	H	Black Anodized Aluminuim - Thermally Broken	6' - 0"	7' - 0"	1	Black Anodized Aluminuim - Thermally Broken			Black Anodized Aluminuim - Thermally Broken		
100a	Exterior	Gymnasium	G	Interior: Paint (PT-03) - Exterior: Paint (PT-05)	3' - 0"	7' - 0"	2	18ga Welded Steel - Thermally Broken	0' - 5 3/4"	0' - 7 3/4"	Interior: Paint (PT-03) - Exterior: Paint (PT-04)		PT-04 (Black) on Exterior Frame
100b	Stair Well	Exterior	G	Interior: Paint (PT-03) - Exterior: Paint (PT-05)	3' - 0"	7' - 0"	2	18ga Welded Steel - Thermally Broken	0' - 5 3/4"	0' - 7 3/4"	Interior: Paint (PT-03) - Exterior: Paint (PT-04)		PT-04 (Black) on Exterior Frame
101	Program Rm	Vestibule	[illegible]	Paint (PT-03)	6' - 0"	7' - 0"	3	18ga Welded Steel	0' - 5 3/4"	0' - 6 3/4"	Paint (PT-03)	1 Hour	
101a	Common Rm	Vestibule	[illegible]	Paint (PT-03)	3' - 0"	7' - 0"	4	18ga Welded Steel	0' - 5 3/4"	0' - 4 3/4"	Paint (PT-03)	45 Minute	
103	Gymnasium	Vestibule	[illegible]	Paint (PT-03)	3' - 0"	7' - 0"	5	18ga Welded Steel	0' - 5 3/4"	0' - 6 3/4"	Paint (PT-03)	45 Minute	
103a	Program Rm	Gymnasium	[illegible]	Paint (PT-03)	6' - 0"	7' - 0"	6	18ga Welded Steel	0' - 5 3/4"	0' - 4 3/4"	Paint (PT-03)		
104	Gym Storage	Gymnasium	D	Paint (PT-03)	3' - 0"	7' - 0"	11	18ga Welded Steel	0' - 5 3/4"	0' - 4 1/2"	Paint (PT-03)		
105	Cultural Rm	Gymnasium	[illegible]	Paint (PT-03)	6' - 0"	7' - 0"	8	18ga Welded Steel	0' - 5 3/4"	0' - 6 3/4"	Paint (PT-03)		
106	Gymnasium	Therapy / Early Intervention	[illegible]	Paint (PT-03)	3' - 0"	6' - 8"	7	18ga Welded Steel	0' - 5 3/4"	0' - 4 3/4"	Paint (PT-03)		
107	Gymnasium	Wshrm	[illegible]	Paint (PT-03)	3' - 0"	6' - 8"	9	18ga Welded Steel	0' - 5 3/4"	0' - 4 3/4"	Paint (PT-03)		
108	Gymnasium	B.F Wshrm	[illegible]	Paint (PT-03)	3' - 0"	6' - 8"	9	18ga Welded Steel	0' - 5 3/4"	0' - 4 3/4"	Paint (PT-03)		
109	Corridor	Program Rm	[illegible]	Paint (PT-03)	3' - 0"	6' - 8"	7	18ga Welded Steel	0' - 5 3/4"	0' - 4 1/2"	Paint (PT-03)		
110	Program Rm	Sensory Rm	[illegible]	Paint (PT-03)	3' - 0"	6' - 8"	10	18ga Welded Steel	0' - 5 3/4"	0' - 6 3/4"	Paint (PT-03)		
111	Program Rm	Infirmary	[illegible]	Paint (PT-03)	3' - 0"	6' - 8"	7	18ga Welded Steel	0' - 5 3/4"	0' - 4 3/4"	Paint (PT-03)		
112	Program Rm	Storage	[illegible]	Paint (PT-03)	3' - 0"	6' - 8"	11	18ga Welded Steel	0' - 5 3/4"	0' - 4 3/4"	Paint (PT-03)		
113	Wshrm	Program Rm	Archway	-	0' - 0"	0' - 0"	-	-			-		MDF Framed archway
113a	B.F Wshrm	Wshrm	[illegible]	Paint (PT-03)	3' - 0"	6' - 8"	9	18ga Welded Steel	0' - 5 3/4"	0' - 4 1/2"	Paint (PT-03)		
114	Program Rm	Stair Well	[illegible]	Paint (PT-03)	3' - 0"	7' - 0"	4	18ga Welded Steel	0' - 5 3/4"	0' - 6 3/4"	Paint (PT-03)	45 Minute	
115	Program Rm	Art Rm	[illegible]	Paint (PT-03)	3' - 0"	6' - 8"	7	18ga Welded Steel	0' - 5 3/4"	0' - 4 1/2"	Paint (PT-03)		
117	Corridor	Kitchen	[illegible]	Paint (PT-03)	3' - 0"	7' - 0"	7	18ga Welded Steel	0' - 5 3/4"	0' - 4 1/2"	Paint (PT-03)		
117a	Kitchen	Pantry	Archway	-	0' - 0"	0' - 0"	-	-			-		MDF Framed archway
123	Corridor	Janitor Room	[illegible]	Paint (PT-03)	3' - 0"	7' - 0"	12	18ga Welded Steel	0' - 5 3/4"	0' - 4 1/2"	Paint (PT-03)	45 Minute	
207	Common Rm	Parent Interation	Archway	-	0' - 0"	0' - 0"	-	-			-		MDF Framed archway
208	Common Rm	Office	[illegible]	Paint (PT-03)	3' - 0"	7' - 0"	7	18ga Welded Steel	0' - 5 3/4"	[illegible]	Paint (PT-03)		
208a	Storage	Office	[illegible]	Paint (PT-03)	3' - 0"	7' - 0"	11	18ga Welded Steel	0' - 5 3/4"	[illegible]	Paint (PT-03)		
209	Common Rm	Mechanical	[illegible]	Paint (PT-03)	3' - 0"	7' - 0"	13	18ga Welded Steel	0' - 5 3/4"	0' - 4 3/4"	[illegible]	45 Minute	
210	Common Rm	Office	[illegible]	Paint (PT-03)	3' - 0"	7' - 0"	7	18ga Welded Steel	0' - 5 3/4"	0' - 4 3/4"	Paint (PT-03)		
211	Common Rm	Board Rm	[illegible]	Paint (PT-03)	3' - 0"	7' - 0"	7	18ga Welded Steel	0' - 5 3/4"	0' - 4 3/4"	[illegible]		

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Door Type Schedule



A — 18ga Steel Door, Paint Finish, 45min Rated (Interior Door)

B — 18ga Steel Door, Paint Finish (Interior Door)

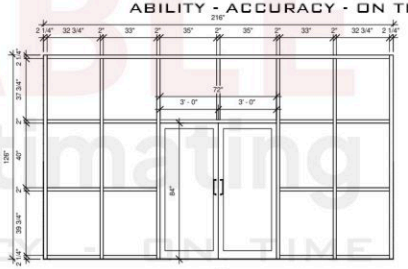
C — 18ga Steel Door, Paint Finish, Wired Glass, 45 Minute Rated (Interior Door)

D — 18ga Steel Door, Paint Finish, Single Glazed Tempered Glass (Interior Door)

E — 18ga Steel Door, Paint Finish, One Hour Rated (Interior Door)

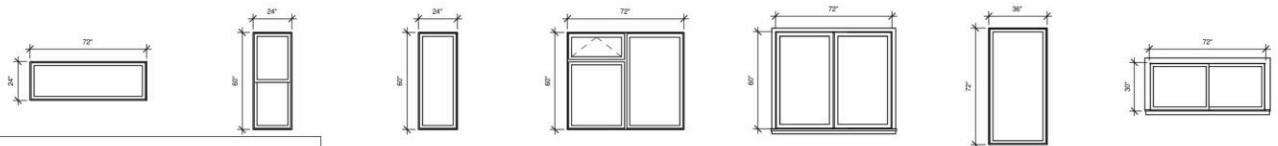
F — 18ga Steel Door, Paint Finish (Interior Door)

G — 18ga Insulated Steel Door, Thermally Broken, Paint Finish, Dual Glazed (Exterior Door)



H — Store Front, Black Anodized Aluminuim, Thermally Broken, Dual Glazed (Exterior Door)

Window Schedule



3 — Triple Glazed Low 'E', Black Exterior - White Interior, PVC Window, Fixed

4 — Triple Glazed Low 'E', Black Exterior - White Interior, PVC Window, Awning Over Fixed / Fixed, c/w Insect Screen, Limit Opening to 6"

5 — Triple Glazed Low 'E', Black Exterior - White Interior, PVC Window, Fixed / Fixed

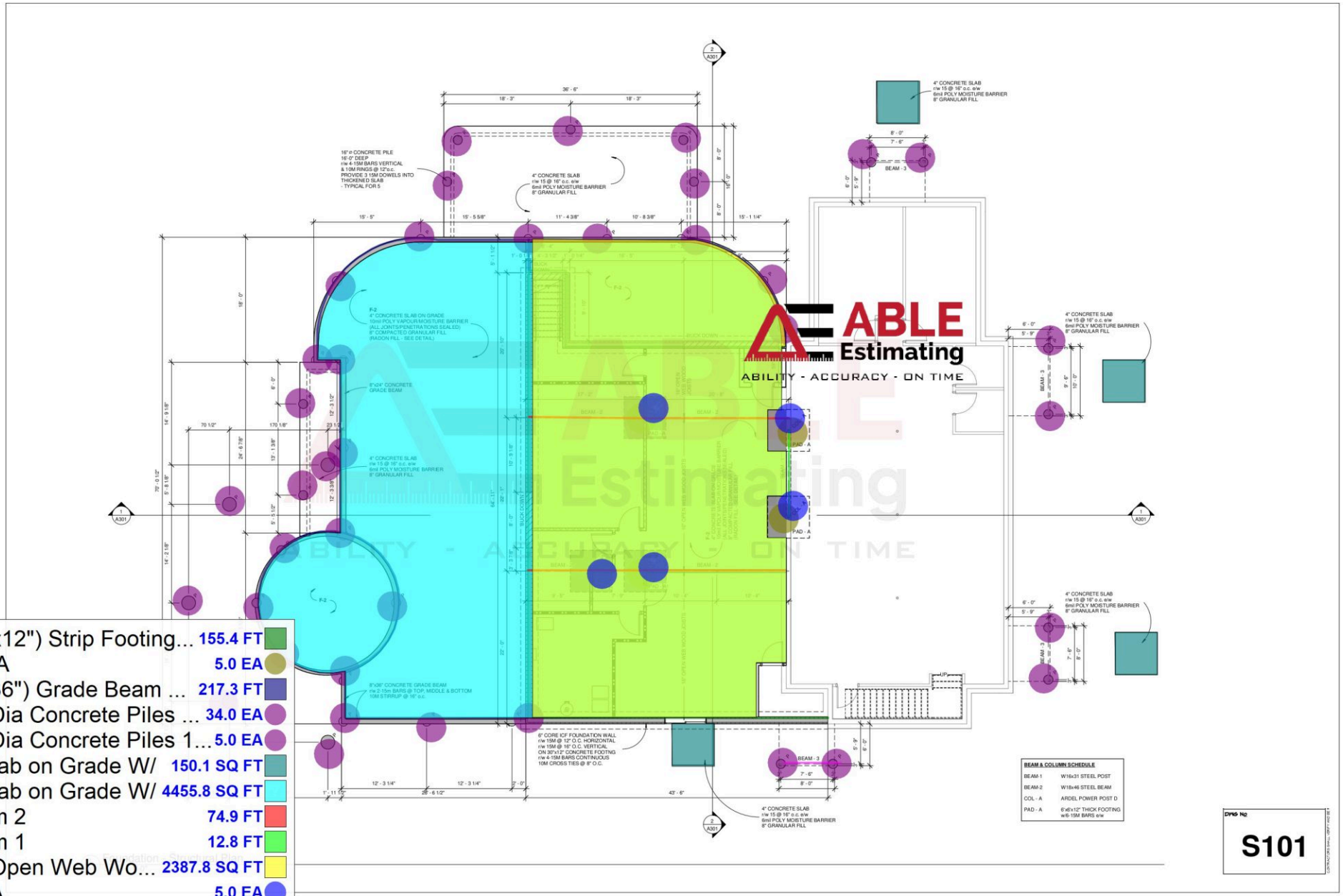
6 — Interior Window, Triple Glazed Low 'E', White PVC Window, Fixed

7 — Triple Glazed Low 'E', Black Exterior - White Interior, PVC Window, Slider, c/w Insect Screen

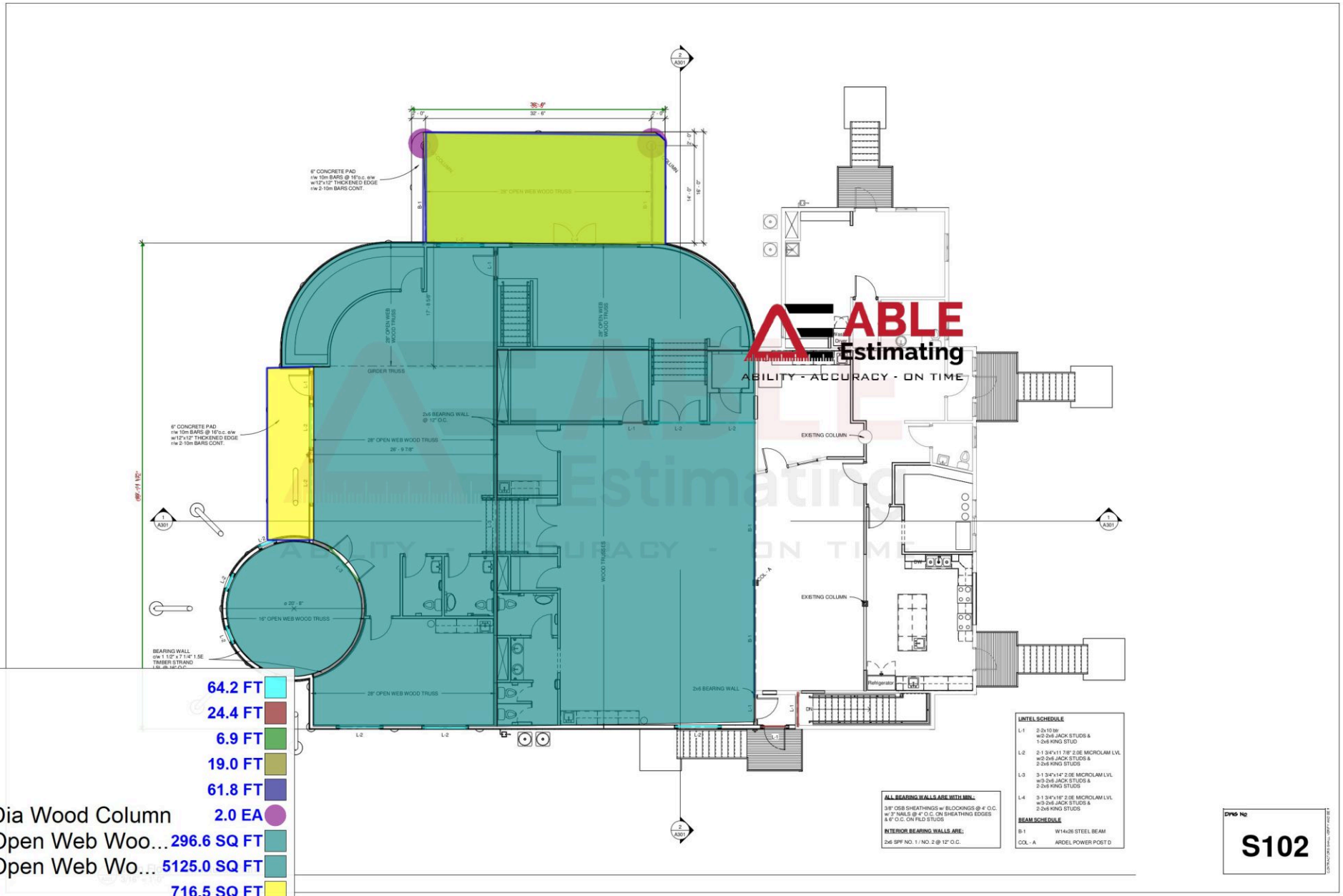
DWG No

A401

- (6'-0"x7'-0") Black Anod... 1.0 EA
- (6'-0"x7'-0") 18ga Steel ... 3.0 EA
- (3'-0"x7'-0") 18ga Stee... 10.0 EA
- (3'-0"x6'-5") 18ga Steel ... 9.0 EA
- (3'-0"x7'-0") 18ga Insul... 2.0 EA



(30"x12") Strip Footing...	155.4 FT
Pad A	5.0 EA
(8"x36") Grade Beam ...	217.3 FT
16" Dia Concrete Piles ...	34.0 EA
24" Dia Concrete Piles 1...	5.0 EA
4" Slab on Grade W/	150.1 SQ FT
4" Slab on Grade W/	4455.8 SQ FT
Beam 2	74.9 FT
Beam 1	12.8 FT
16" Open Web Wo...	2387.8 SQ FT
Col A	5.0 EA
Beam 3	8.4 FT



L2	64.2 FT
L1	24.4 FT
L3	6.9 FT
L4	19.0 FT
B1	61.8 FT
16" Dia Wood Column	2.0 EA
16" Open Web Woo...	296.6 SQ FT
28" Open Web Wo...	5125.0 SQ FT
Area	716.5 SQ FT
12x12	103.6 FT

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