



Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

Date Received: MAR 2 AM 10:36

Permit No.: B18000682

Building Address: 6555 Belmont Woods Rd
 City: Elkridge State: MD Zip Code: 21075
 Suite/Apt. # _____ SDP/WP/BA #: _____
 Census Tract: _____ Subdivision: 0000
 Section: _____ Area: 68.888 Ac Lot: _____
 Tax Map: 0032 Parcel: 0002 Grid: 0019
 Zoning: R-ED Map Coordinates: 4937-A4 Lot Size: 68.888Ac

Existing Use: Maintenance Shop/Storage
 Proposed Use: Maintenance Shop/Office
 Estimated Construction Cost: \$ 100,000
 Description of Work: Bathroom upgrades, insulation upgrades + electrical upgrades (lighting + electric service)
 Occupant/Tenant Name: Howard County Rec & Parks
 Was tenant space previously occupied? Yes No
 Contact Name: Tim Nedzel
 Address: 6555 Belmont Woods Rd
 City: Elkridge State: _____ Zip Code: 21075
 Phone: 410-313-0211 Fax: _____
 Email: +nedzel@howardcountymd.gov

Property Owner's Name: Howard County MD Dept of Public Works
 Address: 3430 Court House Dr
 City: Elliott City State: MD Zip Code: 21043
 Phone: 410-313-4401 Fax: _____
 Email: _____

Applicant's Name & Mailing Address, (if other than stated herein)
 Applicant's Name: Howard County MD Dept of Public Works
 Address: 3430 Court House Dr
 City: Elliott City State: MD Zip Code: 21043
 Phone: 410-313-5386 Fax: _____
 Email: swalsh@howardcountymd.gov

Contractor Company: Howard County Rec + Parks
 Contact Person: Mike Peach
 Address: 7120 Oakland Mills Rd
 City: Columbia State: MD Zip Code: 21046
 License No.: _____
 Phone: 410-313-4731 Fax: _____
 Email: mpeach@howardcountymd.gov

Engineer/Architect Company: _____
 Responsible Design Prof.: Sharon Walsh, AIA
 Address: 9250 Bendix Rd
 City: Columbia State: MD Zip Code: 21045
 Phone: 410-313-5386 Fax: _____
 Email: swalsh@howardcountymd.gov

Commercial Building Characteristics	Residential Building Characteristics
Height: <u>13'-0"</u>	<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse
No. of stories: <u>1</u>	Depth Width
Gross area, sq. ft./floor: <u>2839</u>	1 st floor: _____
Area of construction (sq. ft.): <u>2839</u>	2 nd floor: _____
Use group: <u>F-1</u>	Basement: _____
Construction type:	<input type="checkbox"/> Finished Basement
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Unfinished Basement
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space
<input type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade
<input checked="" type="checkbox"/> Wood Frame	No. of Bedrooms: _____
<input type="checkbox"/> State Certified Modular	Multi-family Dwelling
	No. of efficiency units: _____
	No. of 1 BR units: _____
	No. of 2 BR units: _____
	No. of 3 BR units: _____
	Other Structure: _____
	Dimensions: _____
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings: _____
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof: _____
<input type="checkbox"/> Roadside Tree Project Permit # _____	<input type="checkbox"/> State Certified Modular
	<input type="checkbox"/> Manufactured Home

Utilities	
Electric: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Gas: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Water Supply	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Sewage Disposal	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Heating System	
<input type="checkbox"/> Electric <input checked="" type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other: _____	
Sprinkler System:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Grading Permit Number:	
Building Shell Permit Number:	

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

Sharon R. Walsh
 Applicant's Signature
swalsh@howardcountymd.gov
 Email Address
Engineering Specialist III / DPW/D&C
 Title/Company

Sharon R. Walsh, AIA
 Print Name
March 2, 2018
 Date

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

****PLEASE WRITE NEATLY & LEGIBLY****
-FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>3/15/18</u>	<u>H. Oswald</u>

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION
Front: _____
Rear: _____
Side: _____
Side St.: _____
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone: _____
SDP/Red-line approval date: _____

Filing Fee	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	#

Hurman, Laura

Health Dept

From: Hurman, Laura
Sent: Wednesday, March 07, 2018 10:48 AM
To: Walsh, Sharon
Cc: Hill, Amanda; Powell, Markus P.; Mock, Don; Whalen, Debbie
Subject: Building Permit #B18000682 - 6555 Belmont Woods Rd. - Howard Co. Recs & Parks Maintenance Shop

Please be advised that the above-referenced building permit requires a third set of plans for the Health Department. The property is on well & septic and therefore they must review this permit. Please provide the plans to our office at your earliest convenience, and we will forward them to the Health Department for review. Please bring a copy of this e-mail with you.

You may see the person at the front counter who will be able to assist you.

Thank you,

Laura Hurman
Howard County Dept. of
Inspections, Licenses & Permits
3430 Court House Drive
Ellicott City, MD 21043
(410) 313-2455
LHurman@HowardCountyMD.gov

****WHEN REPLYING TO THIS E-MAIL PLEASE "REPLY ALL"*****

**COMPLETE THIS FORM WHEN DROPPING OFF ANY
CORRESPONDENCE AND/OR PLANS TO THE HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS COUNTER:**

Date: 5-12-18 Health Dept *
To: Laura Husman, Dept of Insp, Lic & Permits
(Person's Name and Division)
From: Sharon Walsh, Howard City Govt (410) 313-5386
(Your Name, Company Name and Telephone Number)
Subject: Project name Belmont Maintenance
Project site address 6555 Belmont Woods Rd Elkridge
Permit # B18000682 SDP # _____
Other information pertinent to this project _____

- Please check the attachments below that you are submitting with this transmittal:
- Letter of response to address plan review comment letter
 - Revised plans and/or revised details: When submitting for a complete re-review, **duplicate sets shall be submitted.**
 - Letter Summarizing Changes
 - Energy conservation calculations
 - Copies of Permit Drawings for Health Dept (be specific).
 - Health Department Request DPZ/ DED Request Applicant's Request
 - Two sets of single family dwelling model plans to be placed on permanent file: Model name and/or # _____
 - Other _____

Contact Person Information: (Required)

Sharon R Walsh
Please Print Name
Telephone No: 410-313-5386
E-Mail Address: swalsh@howardcountymd.gov

PLEASE ASSURE ALL DOCUMENTS AND/OR REVISIONS ARE APPROPRIATELY SIGNED AND SEALED, IF NECESSARY, BY A LICENSED ARCHITECT OR ENGINEER. PLEASE BE ADVISED THAT INSUFFICIENT INFORMATION MAY RESULT IN THE DELAY OF REVIEW BY THE PLANS EXAMINER. THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS WILL CONTACT YOU IF THERE IS A PROBLEM. IN ADDITION, ONCE THE BUILDING PERMIT IS APPROVED BY THE PLAN REVIEW DIVISION AND ALL OTHER REQUIRED SIGNATORY AGENCIES, AND THE BUILDING PERMIT IS READY FOR ISSUANCE, THE PERMIT DIVISION WILL NOTIFY THE APPROPRIATE CONTACT PERSON FOR PERMIT PICK UP. ALL PERMIT STATUS INQUIRIES SHALL BE DIRECTED TO THE PERMIT DIVISION AT 410-313-2455. CODE RELATED QUESTIONS AND PLAN REVIEW INQUIRIES SHALL BE DIRECTED TO THE PLAN REVIEW DIVISION AT 410-313-2436. PLEASE ALLOW A MINIMUM OF FIVE (5) WORKING DAYS FOR ANY PLAN SUBMITTALS TO BE REVIEWED. THANK YOU.

Received by [Signature]



COMcheck Software Version 4.0.7.2 Review

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: Belmont Maintenance Shop
 Project Type: New Construction

Construction Site: 6555 Belmont Woods Drive
 Elkridge, MD 21075
 Owner/Agent: Howard County Government
 Department of Public Works
 9250 Bendix Road
 Columbia, MD 21045
 Designer/Contractor:

Additional Efficiency Package

Dedicated Outdoor Air System

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Space Types:Restrooms	64	0.98	63
2-Common Space Types:Lounge/Breakroom	51	0.73	37
3-Common Space Types:Office - Enclosed	176	1.11	195
4-Common Space Types:Workshop	1987	1.59	3159
5-Common Space Types:Electrical/Mechanical	55	0.95	52
6-Common Space Types:Storage	116	0.63	73
7-Common Space Types>Loading Dock	216	0.47	102
Total Allowed Watts =			3681

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<u>1-Common Space Types:Restrooms</u>				
LED 1: B: Other:	1	2	18	36
LED 2: C: Other:	1	1	10	10
<u>2-Common Space Types:Lounge/Breakroom</u>				
LED 3: B: Other:	1	2	18	36
<u>3-Common Space Types:Office - Enclosed</u>				
LED 4: A: Other:	1	3	25	75
<u>4-Common Space Types:Workshop</u>				
LED 5: D: Other:	1	16	67	1072
LED 9: F: Other:	1	9	67	603
<u>5-Common Space Types:Electrical/Mechanical</u>				
LED 6: H: Other:	1	1	39	39
<u>6-Common Space Types:Storage</u>				
LED 7: H1: Other:	1	2	27	54

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
7-Common Space Types:Loading Dock LED 8: F1: Other:	1	3	45	135
			Total Proposed Watts =	2060

Interior Lighting PASSES: Design 44% better than code

Interior Lighting Compliance Statement

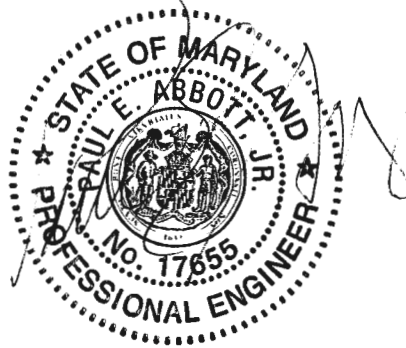
Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.7.2 Review and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature

Date

3/9/18





COMcheck Software Version 4.0.7.2 Review

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: Belmont Maintenance Shop
 Project Type: New Construction
 Exterior Lighting Zone: 1 (Developed area in national or state park)

Construction Site: 6555 Belmont Woods Drive
 Elkridge, MD 21075
 Owner/Agent: Howard County Government
 Department of Public Works
 9250 Bendix Road
 Columbia, MD 21045
 Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Other door (not main entry)	6 ft of door	20	Yes	120
Total Tradable Watts (a) =				120
Total Allowed Watts =				120
Total Allowed Supplemental Watts (b) =				500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Other door (not main entry) (6 ft of door width): Tradable Wattage				
LED 1: G: Other:	1	2	25	50
Total Tradable Proposed Watts =				50

Exterior Lighting PASSES: Design 92% better than code

Exterior Lighting Compliance Statement

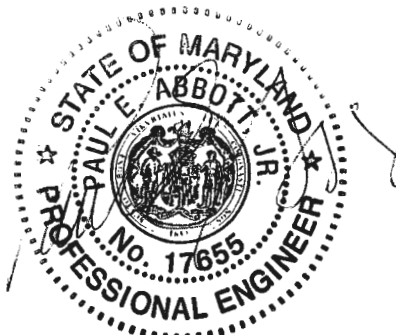
Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.7.2 Review and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature

Date

3/9/18



Oswald, Hank

From: Oswald, Hank
Sent: Wednesday, March 14, 2018 10:51 AM
To: Peach, Mike
Subject: B18000682_6555 Belmont Woods Road_Floor Plans

Hello Mr. Peach:

I just wanted to touch base with you on the renovations to the Maintenance Shop on Belmont Woods Road. Our office did not receive a copy of the floor plans and I was hoping you could forward a set to me. Ultimately, I am just trying to confirm how the change in use might impact the flow to the onsite sewage disposal system. Our records indicate that the system was designed to handle 500 gallons per day flow so we need to know how many offices and employees will occupy the shop on a daily basis.

Any assistance will be greatly appreciated. Thanks in advance for your time.

Respectfully,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
hoswald@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

DRAWING LIST

ARCHITECTURALS

- A1 COVER SHEET/ DEMOLITION PLAN & CODE DATA
- A2 FLOOR PLAN & CEILING PLAN
- A3 ELEVATIONS & SPECIFICATIONS

MECHANICAL

- M001 MECHANICAL COVER SHEET
- M101 FLOOR PLAN - MECHANICAL
- M102 FLOOR PLAN - PLUMBING
- M201 MECHANICAL DETAILS
- M301 MECHANICAL SCHEDULES
- M401 MECHANICAL SPECIFICATIONS
- M402 MECHANICAL SPECIFICATIONS
- M403 MECHANICAL SPECIFICATIONS
- M404 MECHANICAL SPECIFICATIONS
- M405 MECHANICAL SPECIFICATIONS

ELECTRICAL

- E001 ELECTRICAL COVER SHEET
- E101 ELECTRICAL SITE PLAN - NEW WORK
- E201 ELECTRICAL DEMOLITION
- E301 LIGHTING - NEW WORK
- E302 POWER - NEW WORK
- E401 ELECTRICAL DETAILS
- E402 ELECTRICAL RISER & SCHEDULES
- E403 PANEL SCHEDULES
- E501 ELECTRICAL SPECIFICATIONS
- E502 ELECTRICAL SPECIFICATIONS

BELMONT MAINTENANCE SHOP

6555 BELMONT WOODS RD

ELKRIDGE, MD 21075

OWNER

HOWARD COUNTY GOVERNMENT, DEPARTMENT OF PUBLIC WORKS
BUREAU OF FACILITIES, DESIGN & CONSTRUCTION DIVISION
9250 BENDIX RD,
COLUMBIA, MD 21045

CLIENT

HOWARD COUNTY GOVERNMENT
DEPARTMENT OF RECREATION & PARKS

MECHANICAL & ELECTRICAL ENGINEER

KIBART CONSULTING ENGINEERS
901 DULANEY VALLEY ROAD, SUITE 301
TOWSON, MD 21204

ISSUED FOR PERMIT FEBRUARY 20, 2018



HOWARD COUNTY GOVERNMENT
DEPARTMENT OF PUBLIC WORKS
BUREAU OF FACILITIES
DESIGN AND CONSTRUCTION
DIVISION
9250 BENDIX RD COLUMBIA, MD 21045
TELEPHONE: 410.313.2700

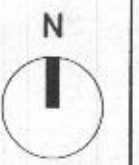
CONSULTANT:



I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER 8108-A, EXPIRATION DATE 09/21/20

KEY PLAN
3/15/18 - Per Sharon Walsh
0-4 Employee / Day
used for tool storage &
name base for county
maintenance employees.



PHASE:

CONSTRUCTION DOCUMENTS

PROJECT:

BELMONT MAINTENANCE SHOP

6555 BELMONT WOODS RD
ELKRIDGE, MD 21075

REVISIONS

NO.	DATE	ISSUED FOR
	02-20-2018	100% CD'S

PROJECT NO.

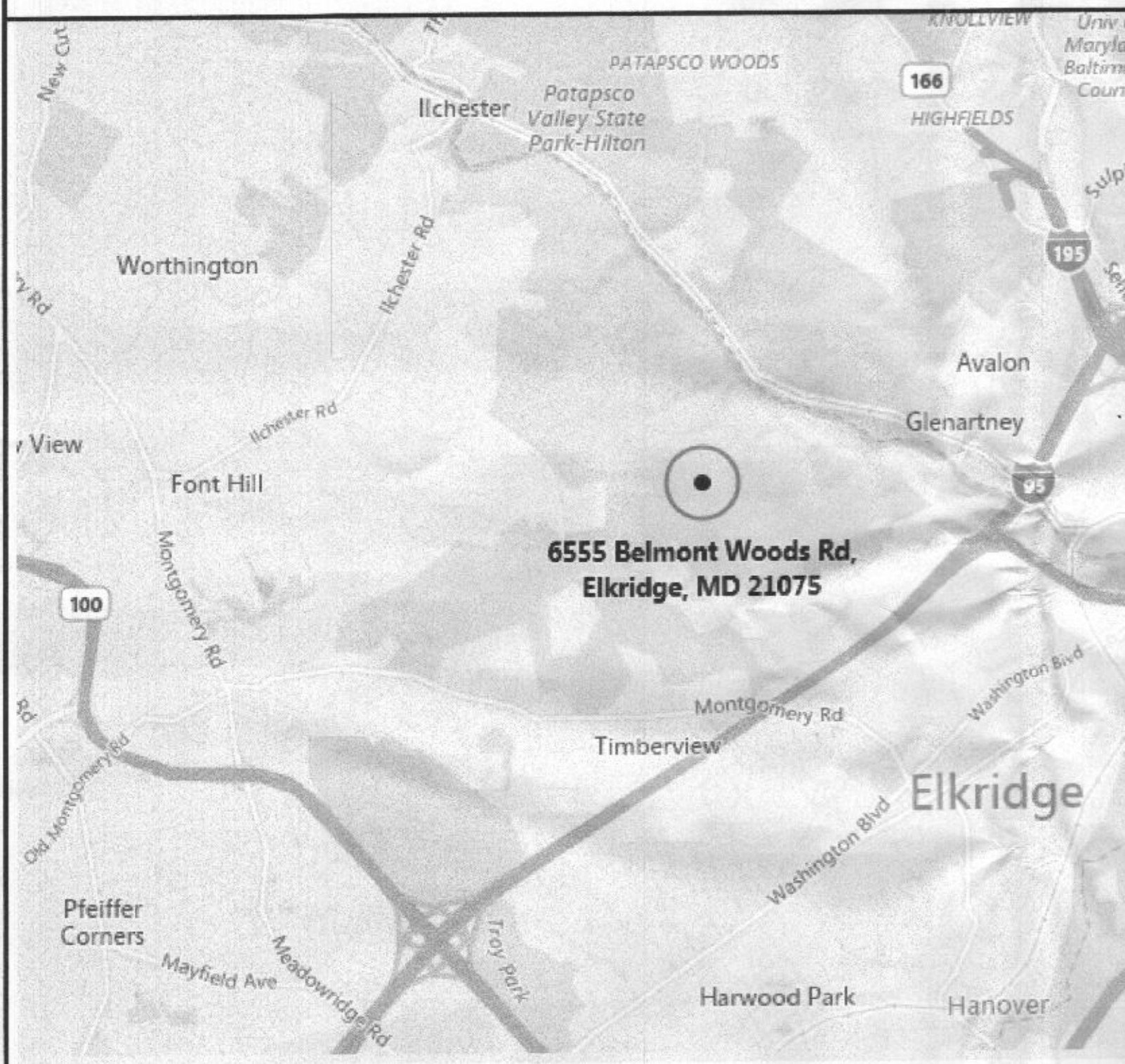
DATE

SCALE AS NOTED

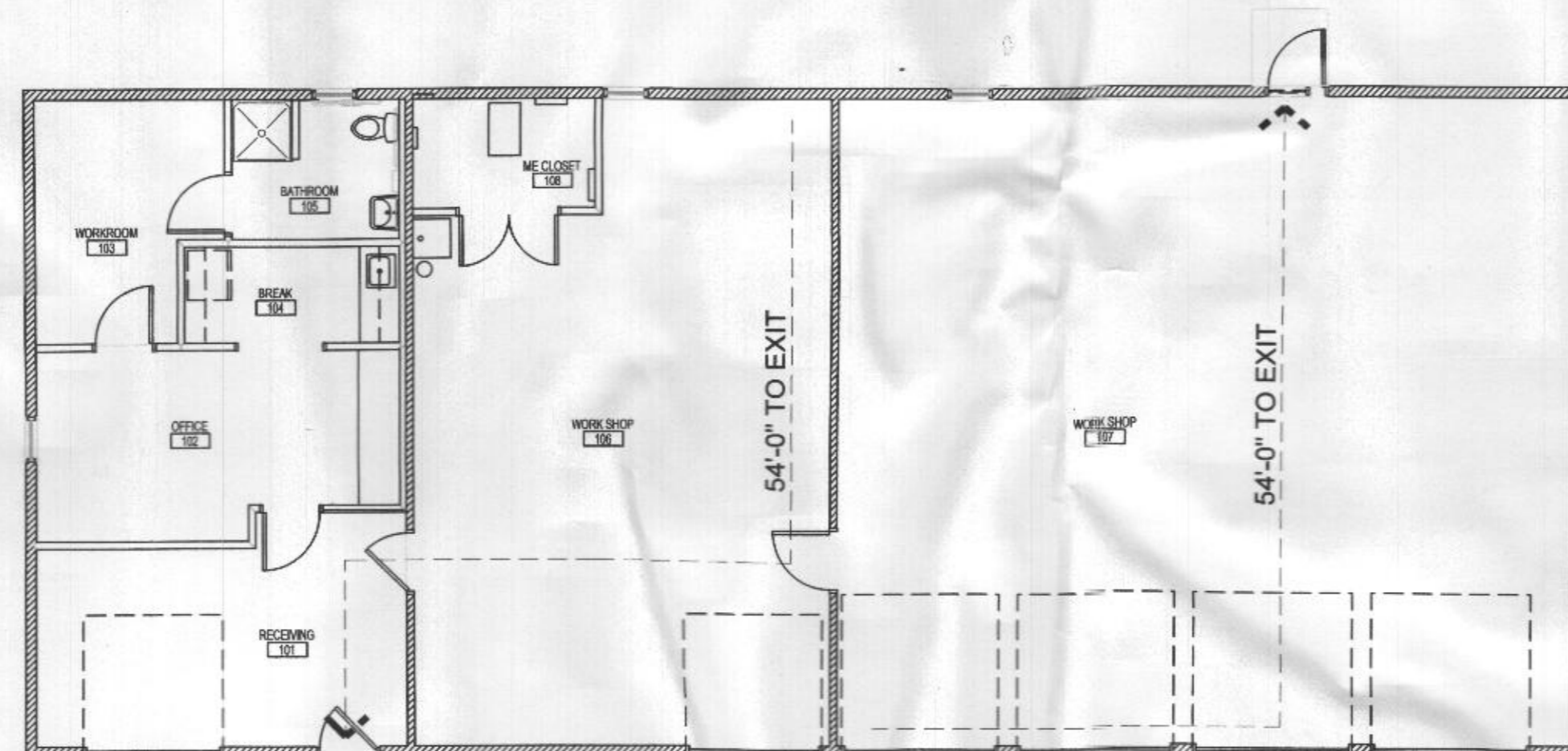
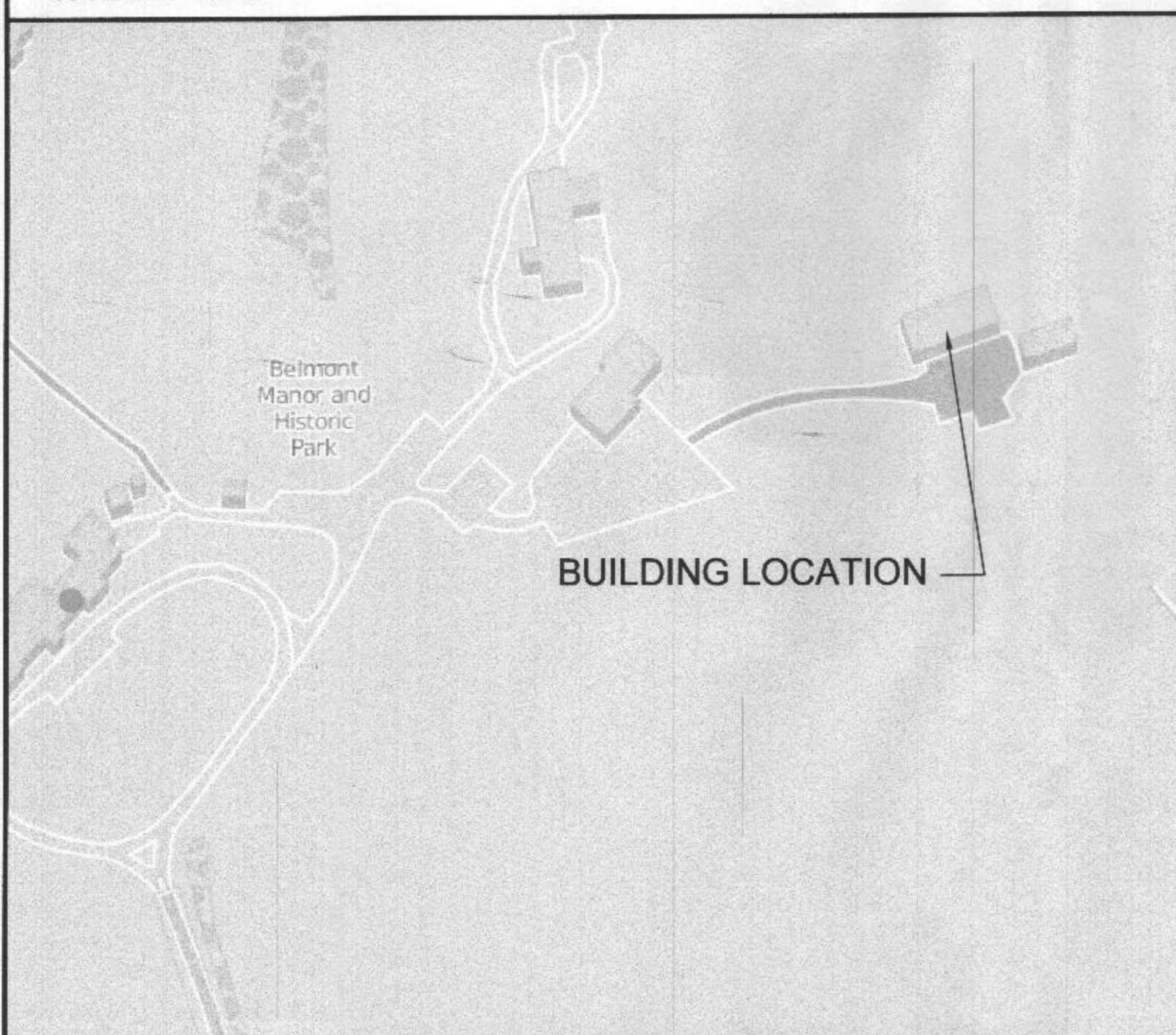
DRAWING TITLE
**COVER SHEET,
DEMOLITION PLAN
& CODE DATA**

SHEET NUMBER
A-1

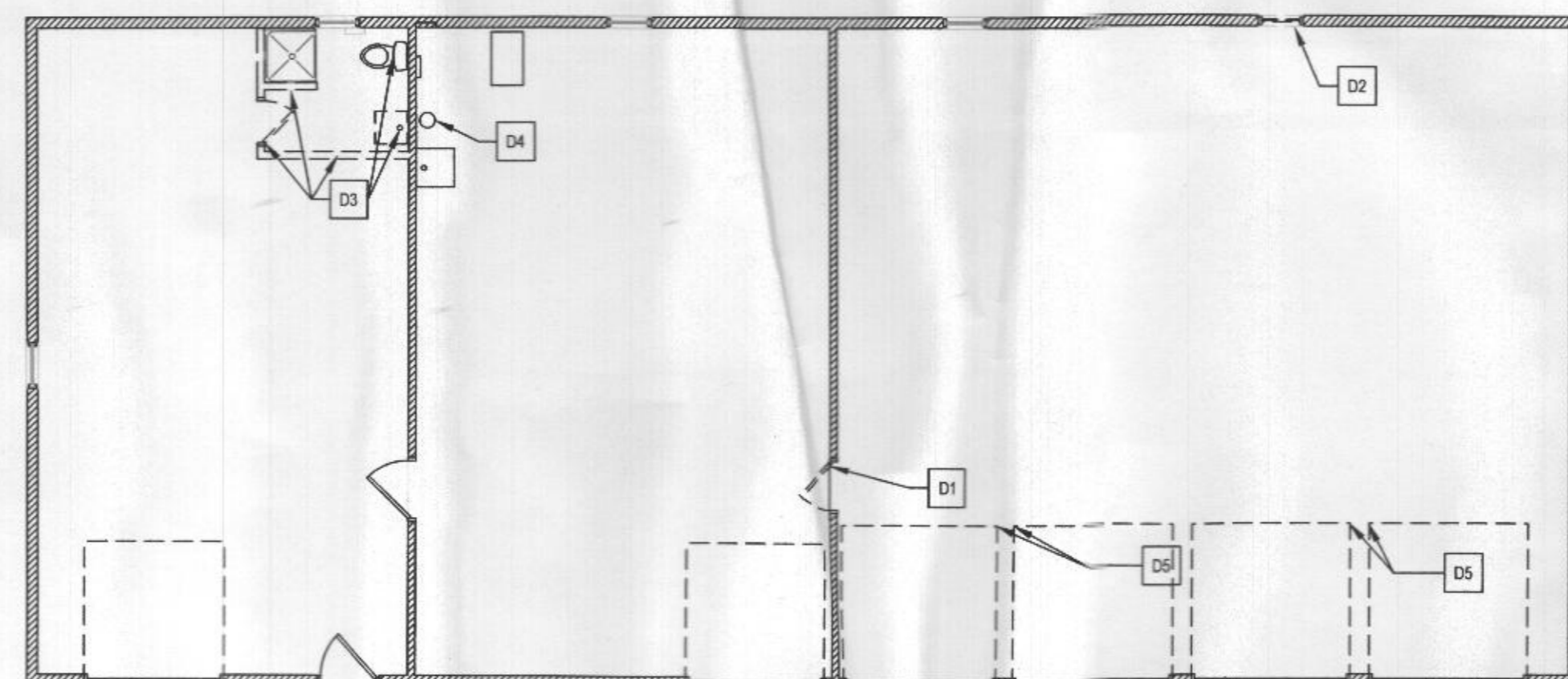
LOCATION MAP



VICINITY MAP



C3 EGRESS PLAN
1/8" = 1'-0"



D3 DEMOLITION PLAN
1/8" = 1'-0"

CODE SUMMARY

BUILDING AREA: 2839 SF
USE GROUP: F-1 MODERATE-HAZARD FACTORY INDUSTRIAL WITH INCIDENTAL B BUSINESS & S-1 STORAGE
NONSEPARATED OCCUPANCY
SPRINKLERS NOT REQUIRED PER IBC 903.2.4
OCCUPANT LOAD: 23
IBC 602.5 CONSTRUCTION TYPE V B (BUILDING ELEMENTS CAN BE ANY MATERIALS PERMITTED BY THE CODE)
IBC TABLE 601: 0 HOUR FIRE-RESISTANCE RATINGS FOR ALL BUILDING ELEMENTS
ALLOWABLE HEIGHT & AREA:
IBC TABLE 504.3: HEIGHT 40 FEET
IBC TABLE 504.4: 1 STORY
IBC TABLE 506.2: 8500 SF PERMITTED

IBC SECTION 1020.4: DEAD END CORRIDOR: 20 FEET (WHERE CORRIDORS OCCUR)
IBC TABLE 1006.2.1: SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY: MAX. 49 OCCUPANT LOAD, 75 FT. MAX COMMON PATH OF EGRESS TRAVEL
LONGEST PATH OF TRAVEL: 54 FT.

DEMOLITION KEY NOTES

- D1 REMOVE EXISTING DOOR & FRAME, PROVIDE WIDER FRAMED OPENING FOR NEW 3'-0" WIDE DOOR
- D2 REMOVE EXISTING WINDOW AND PROVIDE NEW FRAMED OPENING FOR 3'-0" X 6'-8" DOOR.
- D3 REMOVE EXISTING BATHROOM FIXTURES AND PARTITIONS, REMOVE ALL WALL MOUNTED ACCESSORIES.
- D4 REMOVE EXISTING EYE WASH AND REINSTALL WHERE INDICATED
- D5 REMOVE EXISTING GARAGE DOOR TRACK AND OPERATOR AND REINSTALL AFTER NEW GYP BOARD CEILING IS INSTALLED

RECEIVED
MAR 12 2018
LICENSES & PERMITS
DIVISION

GENERAL NOTES

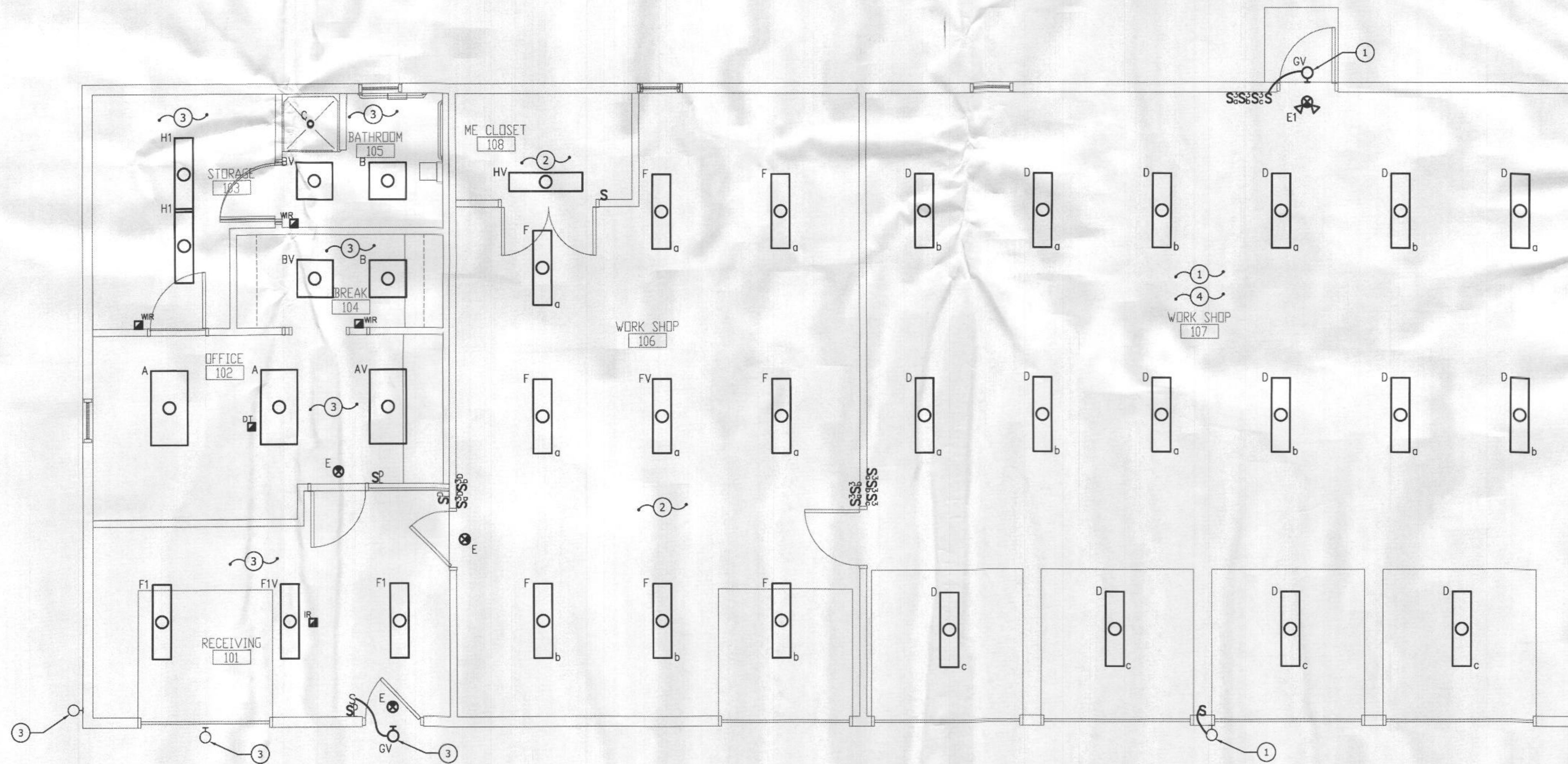
1. REFER TO ARCHITECTURAL RCP AND DETAILS FOR EXACT LIGHT LOCATIONS.
2. ALL EXIT SIGNS & EMERGENCY LIGHTING UNITS SHALL BE CONNECTED TO CIRCUIT SERVING NEAREST NON-EMERGENCY LIGHTS IN SAME ROOM OR AREA AHEAD OF SWITCHING.
3. WHERE LINE VOLTAGE OCCUPANCY SENSOR INDICATED IN A ROOM, PROVIDE AND INSTALL PER MANUFACTURER'S REQUIREMENTS. UNLESS NOTED OTHERWISE, CONTROLLER SHALL BE SET TO 'MANUAL ON'.
4. UNLESS NOTED OTHERWISE, SWITCHES IN EACH AREA SHALL CONTROL LIGHTS WITHIN AREA.
5. PROVIDE ALL WIRING, CONDUIT, AND OTHER COMPONENTS AS NECESSARY FOR OPERATION OF LIGHTING SYSTEM, INCLUDING BUT NOT LIMITED TO SWITCH LEGS, "HOT" FEEDS, AUTOMATIC CONTROL COMPONENTS, ETC.
6. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS WHERE REQUIRED BY NEC 404.2(C) (IN ADDITION TO FEED, SWITCH LEG, TRAVELERS, ETC.).
7. PROVIDE NEW CIRCUITS PER SPEC FOR EXISTING TO REMAIN DEVICES WHERE NM CABLING WAS REMOVED DURING DEMOLITION.
8. WHERE DIGITAL OCCUPANCY SENSOR INDICATED IN A ROOM, PROVIDE DIGITAL LIGHTING MANAGEMENT (DLM) COMPONENTS AS REQUIRED FOR INDICATED OPERATION. THESE SHALL INCLUDE ROOM CONTROLLER, LOW VOLTAGE SWITCHES, OCCUPANCY SENSORS, ASSOCIATED LOW VOLTAGE CABLING, ETC. REFER TO DLM LIGHTING CONTROL DETAIL, SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS FOR ADDITIONAL INFORMATION. UNLESS NOTED OTHERWISE, IF ONLY (1) LOAD CONTROLLED, CONTROLLER SHALL BE SET TO 'MANUAL ON'; WHERE MORE THAN (1) LOAD CONTROLLED, <50% SHALL BE SET TO 'AUTO ON', AND ALL OTHER LOADS TO

'MANUAL ON'.

9. UNLESS NOTED OTHERWISE, ALL OCCUPANCY SENSORS IN EACH AREA SHALL CONTROL ALL SWITCH CONTROLLED LIGHTS IN THAT AREA. PROVIDE ADJUSTMENT, MASKING, AND/OR BLOCKING AS NECESSARY IN ORDER TO LIMIT SENSOR RANGE TO APPLICABLE AREA ONLY. REFER TO OCCUPANCY SENSOR DETAIL AND MANUFACTURER'S INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS INCLUDING MINIMUM OF 4'-6" FROM SUPPLY VENTS.

DRAWING NOTES

- ① ALL LIGHT FIXTURES IN THIS ROOM SHALL BE CONNECTED TO CIRCUIT HP-17.
- ② ALL LIGHT FIXTURES IN THIS ROOM SHALL BE CONNECTED TO CIRCUIT HP-19.
- ③ ALL LIGHT FIXTURES IN THIS ROOM SHALL BE CONNECTED TO CIRCUIT HP-21.
- ④ ALL WIRING METHODS, BOXES, DEVICES AND EQUIPMENT IN WORKSHOP 107 SHALL COMPLY WITH NEC CLASS II DIVISION 2 REQUIREMENTS PER NEC 502. THIS SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING:
 - a. WIRING METHOD SHALL BE RGS, IMC, EMT, OR MC CABLE WITH LISTED TERMINATION FITTINGS.
 - b. FLEXIBLE CONNECTIONS SHALL BE PROVIDED PER NEC 502.10(A)(2).
 - c. ALL BOXES & FITTINGS SHALL BE DUST-TIGHT.
 - d. PROVIDE CONDUIT SEALS PER NEC 502.15.
 - e. PROVIDE GROUNDING & BONDING PER NEC 502.30.
 - f. ALL LIGHT FIXTURES AND EQUIPMENT ENCLOSURES SHALL BE DUST-TIGHT.
 - g. ALL SWITCHES, BREAKERS, PUSHBUTTONS, ETC. SHALL HAVE DUST-TIGHT ENCLOSURES.
 - h. ALL ATTACHMENT PLUGS SHALL HAVE EQUIPMENT GROUNDING CONDUCTOR CONNECTIONS. REPLACE ANY THAT DO NOT.



FLOOR PLAN - LIGHTING - NEW WORK

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



HOWARD COUNTY GOVERNMENT
DEPARTMENT OF PUBLIC
WORKS
BUREAU OF FACILITIES
DESIGN AND CONSTRUCTION
DIVISION
9250 BENDIX RD COLUMBIA, MD 21045
TELEPHONE: 410.313.2700

CONSULTANT:



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. EXPIRATION DATE 01/11/2020. STATE OF MARYLAND LICENSE NUMBER: 17655

KEY PLAN



PHASE:

CONSTRUCTION DOCUMENTS

PROJECT:

BELMONT MAINTENANCE SHOP

6555 BELMONT WOODS RD
ELKBRIDGE, MD 21075

REVISIONS

NO.	DATE	ISSUED FOR
1	1/19/18	75% CD
2	2/20/18	100% CD

PROJECT NO.

DATE

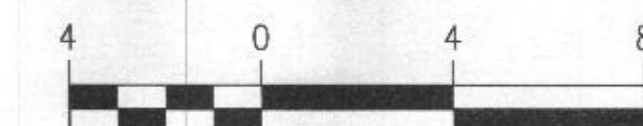
SCALE AS NOTED

DRAWING TITLE
LIGHTING - NEW WORK

SHEET NUMBER
E301



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



GENERAL NOTES

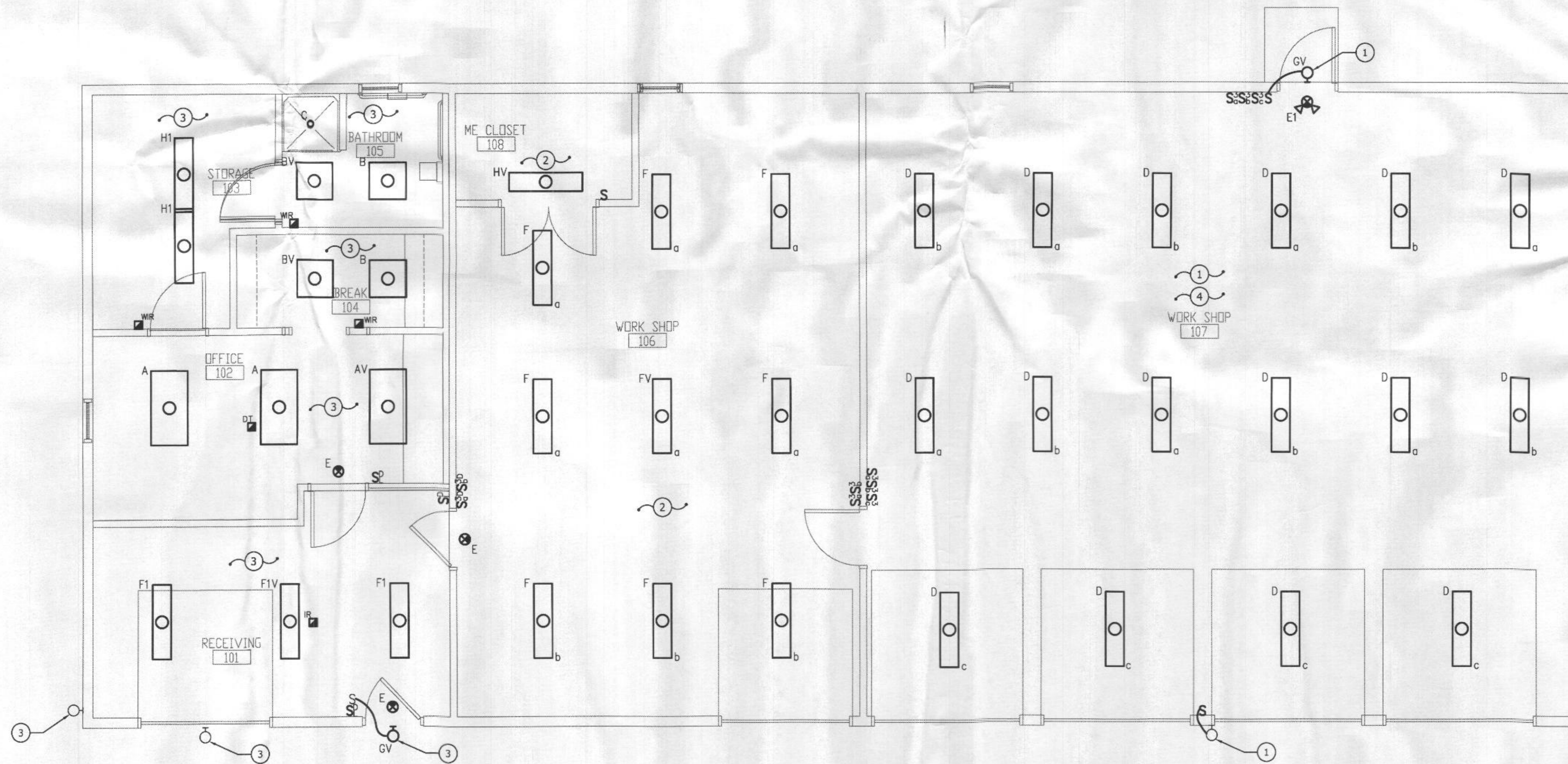
1. REFER TO ARCHITECTURAL RCP AND DETAILS FOR EXACT LIGHT LOCATIONS.
2. ALL EXIT SIGNS & EMERGENCY LIGHTING UNITS SHALL BE CONNECTED TO CIRCUIT SERVING NEAREST NON-EMERGENCY LIGHTS IN SAME ROOM OR AREA AHEAD OF SWITCHING.
3. WHERE LINE VOLTAGE OCCUPANCY SENSOR INDICATED IN A ROOM, PROVIDE AND INSTALL PER MANUFACTURER'S REQUIREMENTS. UNLESS NOTED OTHERWISE, CONTROLLER SHALL BE SET TO 'MANUAL ON'.
4. UNLESS NOTED OTHERWISE, SWITCHES IN EACH AREA SHALL CONTROL LIGHTS WITHIN AREA.
5. PROVIDE ALL WIRING, CONDUIT, AND OTHER COMPONENTS AS NECESSARY FOR OPERATION OF LIGHTING SYSTEM, INCLUDING BUT NOT LIMITED TO SWITCH LEGS, "HOT" FEEDS, AUTOMATIC CONTROL COMPONENTS, ETC.
6. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS WHERE REQUIRED BY NEC 404.2(C) (IN ADDITION TO FEED, SWITCH LEG, TRAVELERS, ETC.).
7. PROVIDE NEW CIRCUITS PER SPEC FOR EXISTING TO REMAIN DEVICES WHERE NM CABLING WAS REMOVED DURING DEMOLITION.
8. WHERE DIGITAL OCCUPANCY SENSOR INDICATED IN A ROOM, PROVIDE DIGITAL LIGHTING MANAGEMENT (DLM) COMPONENTS AS REQUIRED FOR INDICATED OPERATION. THESE SHALL INCLUDE ROOM CONTROLLER, LOW VOLTAGE SWITCHES, OCCUPANCY SENSORS, ASSOCIATED LOW VOLTAGE CABLING, ETC. REFER TO DLM LIGHTING CONTROL DETAIL, SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS FOR ADDITIONAL INFORMATION. UNLESS NOTED OTHERWISE, IF ONLY (1) LOAD CONTROLLED, CONTROLLER SHALL BE SET TO 'MANUAL ON'; WHERE MORE THAN (1) LOAD CONTROLLED, <50% SHALL BE SET TO 'AUTO ON', AND ALL OTHER LOADS TO

'MANUAL ON'.

9. UNLESS NOTED OTHERWISE, ALL OCCUPANCY SENSORS IN EACH AREA SHALL CONTROL ALL SWITCH CONTROLLED LIGHTS IN THAT AREA. PROVIDE ADJUSTMENT, MASKING, AND/OR BLOCKING AS NECESSARY IN ORDER TO LIMIT SENSOR RANGE TO APPLICABLE AREA ONLY. REFER TO OCCUPANCY SENSOR DETAIL AND MANUFACTURER'S INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS INCLUDING MINIMUM OF 4'-6" FROM SUPPLY VENTS.

DRAWING NOTES

- ① ALL LIGHT FIXTURES IN THIS ROOM SHALL BE CONNECTED TO CIRCUIT HP-17.
- ② ALL LIGHT FIXTURES IN THIS ROOM SHALL BE CONNECTED TO CIRCUIT HP-19.
- ③ ALL LIGHT FIXTURES IN THIS ROOM SHALL BE CONNECTED TO CIRCUIT HP-21.
- ④ ALL WIRING METHODS, BOXES, DEVICES AND EQUIPMENT IN WORKSHOP 107 SHALL COMPLY WITH NEC CLASS II DIVISION 2 REQUIREMENTS PER NEC 502. THIS SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING:
 - a. WIRING METHOD SHALL BE RGS, IMC, EMT, OR MC CABLE WITH LISTED TERMINATION FITTINGS.
 - b. FLEXIBLE CONNECTIONS SHALL BE PROVIDED PER NEC 502.10(A)(2).
 - c. ALL BOXES & FITTINGS SHALL BE DUST-TIGHT.
 - d. PROVIDE CONDUIT SEALS PER NEC 502.15.
 - e. PROVIDE GROUNDING & BONDING PER NEC 502.30.
 - f. ALL LIGHT FIXTURES AND EQUIPMENT ENCLOSURES SHALL BE DUST-TIGHT.
 - g. ALL SWITCHES, BREAKERS, PUSHBUTTONS, ETC. SHALL HAVE DUST-TIGHT ENCLOSURES.
 - h. ALL ATTACHMENT PLUGS SHALL HAVE EQUIPMENT GROUNDING CONDUCTOR CONNECTIONS. REPLACE ANY THAT DO NOT.



FLOOR PLAN - LIGHTING - NEW WORK

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



HOWARD COUNTY GOVERNMENT
DEPARTMENT OF PUBLIC
WORKS
BUREAU OF FACILITIES
DESIGN AND CONSTRUCTION
DIVISION
9250 BENDIX RD COLUMBIA, MD 21045
TELEPHONE: 410.313.2700

CONSULTANT:



901 Dulaney Valley Road, Suite 301
Towson, MD 21284
Phone: 410-284-1111
Fax: 410-284-1112



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. EXPIRATION DATE 01/11/2020. STATE OF MARYLAND LICENSE NUMBER: 17655

KEY PLAN



PHASE:

CONSTRUCTION
DOCUMENTS

PROJECT:

BELMONT
MAINTENANCE
SHOP

6555 BELMONT WOODS RD
ELKBRIDGE, MD 21075

REVISIONS

NO.	DATE	ISSUED FOR
1	1/19/18	75% CD
2	2/20/18	100% CD

PROJECT NO.

DATE

SCALE AS NOTED

DRAWING TITLE
LIGHTING - NEW
WORK

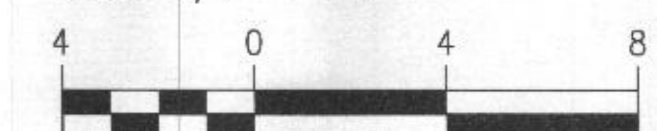
SHEET NUMBER
E301

RECEIVED

MAR 12 2018

LICENSING & PERMITS
DIVISION

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

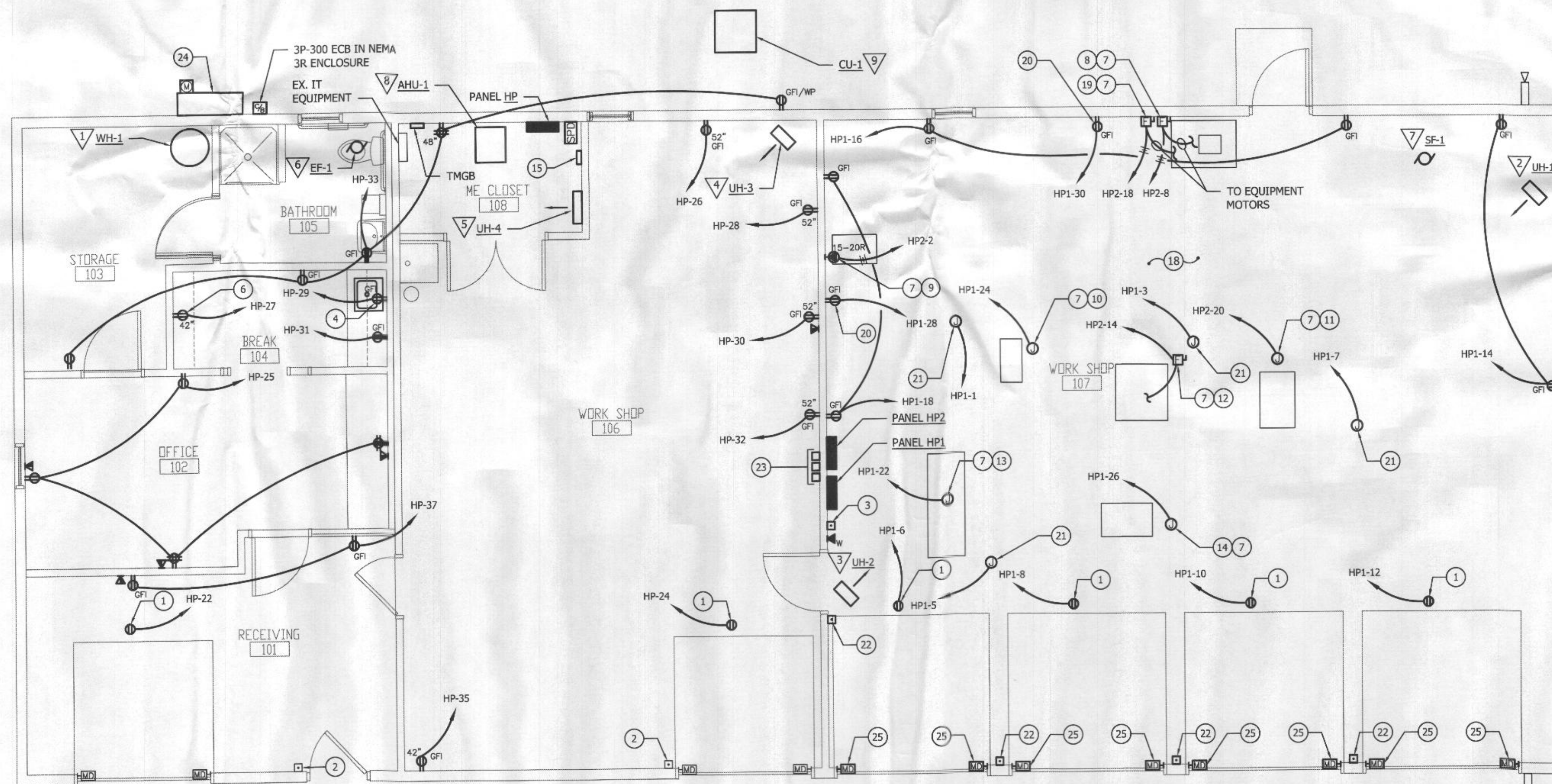


GENERAL NOTES

- COORDINATE ALL OUTLET LOCATIONS WITH INTERIOR ELEVATIONS, COUNTER MOUNTING BRACKETS AND CASEWORK PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW CIRCUITS PER SPEC FOR EXISTING TO REMAIN DEVICES WHERE NM CABLING WAS REMOVED DURING DEMOLITION.
- COORDINATE ELECTRICAL REQUIREMENTS FOR EQUIPMENT WITH OWNER & MANUFACTURER PRIOR TO ROUGH-IN, INCLUDING ALL RECEPTACLE/PLUG TYPES, AND CORD REEL & CEILING MOUNTED OUTLET LOCATIONS.

DRAWING NOTES

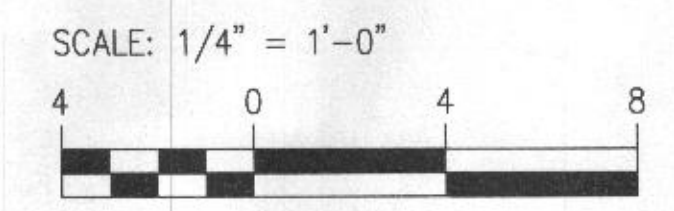
- NEMA 5-20R DUPLEX CEILING MOUNTED RECEPTACLE FOR GARAGE DOOR MOTOR (120V, 1PH, 1/2HP). COORDINATE RECEPTACLE TYPE WITH GARAGE DOOR PLUG TYPE PRIOR TO ROUGH-IN.
- EXISTING PUSH BUTTON FOR GARAGE DOOR OPERATION.
- EMERGENCY SHUTOFF SWITCH FOR SHOP EQUIPMENT.
- DEDICATED RECEPTACLE FOR MICROWAVE. COORDINATE INSTALLATION HEIGHT WITH MFGR PRIOR TO ROUGH-IN.
- NOT USED.
- DEDICATED RECEPTACLE FOR REFRIGERATOR.
- COORDINATE LOCATION WITH EXISTING EQUIPMENT AND OWNER PRIOR TO ROUGH IN.
- 3P-60A FSS (F@50A) IN NEMA 12 ENCLOSURE FOR ORIGINAL SAW COMPANY EQUIPMENT MOTOR (240/480V, 3PH, 18.2/9.1RLA, 7.5HP, 50/25A MOCB). COORDINATE FUSED DISCONNECT SIZING WITH MANUFACTURER PRIOR TO INSTALLATION.
- FOR JET 15" VARIABLE SPEED DRILL - MODEL J-A5818 (240/480V, 3PH, 1 HP).
- PROVIDE & INSTALL CORD REEL WITH SIMPLEX 5-15R GFI RECEPTACLE FOR JET BANDSAW (120V/240V - 120V PREWIRED, 1PH, 9A/4.5A, 1/2HP, 0.37KW).
- PROVIDE & INSTALL CORD REEL WITH SIMPLEX 5-20R GFI RECEPTACLE FOR POWERMATIC 14" BANDSAW (120/240V - 120V PREWIRED, 1PH, 12.5/6.25A, 1.5HP).
- 2P-30A FSS (F@20A) IN NEMA 12 ENCLOSURE FOR SAWSTOP CABINET SAW (240V, 1PH, 12.5A, 3HP). MOUNT ON KINDORF RACK.
- PROVIDE & INSTALL CORD REEL WITH SIMPLEX 5-20R GFI RECEPTACLE FOR POWERMATIC JOINTER - MODEL 54A (120V/240V - 120V PREWIRED, 1PH, 12.5/6.25A, 1HP).
- PROVIDE & INSTALL CORD REEL WITH SIMPLEX 5-20R GFI RECEPTACLE FOR WET SAW - ELECTRIC MOTORS EUROPE (120V, 1PH, 13.8A, 1.1KW).
- MAIN SERVICE GROUND BUS.
- NOT USED.
- NOT USED.
- ALL WIRING METHODS, BOXES, DEVICES AND EQUIPMENT IN WORKSHOP 107 SHALL COMPLY WITH NEC CLASS II DIVISION 2 REQUIREMENTS PER NEC 502. THIS SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING:
 - WIRING METHOD SHALL BE RGS, IMC, EMT, OR MC CABLE WITH LISTED TERMINATION FITTINGS.
 - FLEXIBLE CONNECTIONS SHALL BE PROVIDED PER NEC 502.10(A)(2).
 - ALL BOXES & FITTINGS SHALL BE DUST-TIGHT.
 - PROVIDE CONDUIT SEALS PER NEC 502.15.
 - PROVIDE GROUNDING & BONDING PER NEC 502.30.
 - ALL LIGHT FIXTURES AND EQUIPMENT ENCLOSURES SHALL BE DUST-TIGHT.
 - ALL SWITCHES, BREAKERS, PUSHBUTTONS, ETC. SHALL HAVE DUST-TIGHT ENCLOSURES.
 - ALL ATTACHMENT PLUGS SHALL HAVE EQUIPMENT GROUNDING CONDUCTOR CONNECTIONS. REPLACE ANY THAT DO NOT.
- 3P-30A FSS (F@30A) IN NEMA 12 ENCLOSURE FOR ORIGINAL SAW COMPANY HEAVY DUTY RADIAL ARM SAW MOTOR. COORDINATE DISCONNECT SIZING WITH MANUFACTURER PRIOR TO INSTALLATION.
- FOR DUST COLLECTOR (120V, 7A, 1HP). COORDINATE LOCATION WITH MECHANICAL AND OWNER PRIOR TO ROUGH-IN.
- PROVIDE & INSTALL CORD REEL WITH SIMPLEX 5-20R GFI RECEPTACLE FOR DUST COLLECTOR (120V, 1HP).
- PROVIDE DUST-TIGHT PUSHBUTTON CONTROLLER FOR GARAGE DOOR OPENER, AS WELL AS ASSOCIATED WIRING AND CONDUIT TO OPENER.
- (3) SINGLE PHASE BUCK-BOOST TRANSFORMERS MOUNTED JUST BELOW CEILING (1KVA EACH, ACME #T111683). (3) TRANSFORMERS SHALL BE CONNECTED TO OPERATE AS (1) THREE PHASE BUCK BOOST TRANSFORMER. REFER TO MANUFACTURER'S INSTRUCTIONS AND POWER RISER FOR ADDITIONAL INFORMATION.
- NEMA 3R C/T CABINET AND METER SOCKET PER UTILITY REQUIREMENTS. REFER TO POWER RISER FOR ADDITIONAL INFORMATION.
- PROVIDE DUST-TIGHT MOTION DETECTOR FOR GARAGE DOOR OPENER, AS WELL AS ASSOCIATED WIRING AND CONDUIT TO OPENER.



FLOOR PLAN - POWER - NEW WORK

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

RECEIVED
MAR 12 2018
LICENSES & PERMITS
DIVISION



HOWARD COUNTY GOVERNMENT
DEPARTMENT OF PUBLIC WORKS
BUREAU OF FACILITIES DESIGN AND CONSTRUCTION DIVISION
9250 BENDIX RD COLUMBIA, MD 21045
TELEPHONE: 410.313.2700

CONSULTANT:
KIBART
CONSULTING ENGINEERS

901 Dulany Valley Road, Suite 301
Towson, MD 21284
Phone: 410-484-1111
Fax: 410-484-1112



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. EXPIRATION DATE: 03/13/2020. STATE OF MARYLAND LICENSE NUMBER: 17855

KEY PLAN



PHASE:
CONSTRUCTION DOCUMENTS

PROJECT:
BELMONT MAINTENANCE SHOP

6555 BELMONT WOODS RD
ELKRIDGE, MD 21075

REVISIONS

NO.	DATE	ISSUED FOR
1	1/19/18	75% CD
2	2/20/18	100% CD

PROJECT NO.
DATE
SCALE AS NOTED

DRAWING TITLE
POWER - NEW WORK

SHEET NUMBER
E302