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No.	Description	Date
1	Addenda 4A - Phase 3	12/22/202

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2312 South Division, Grand Rapids, MI 49507

Title Sheet

 Project number
 001-2017

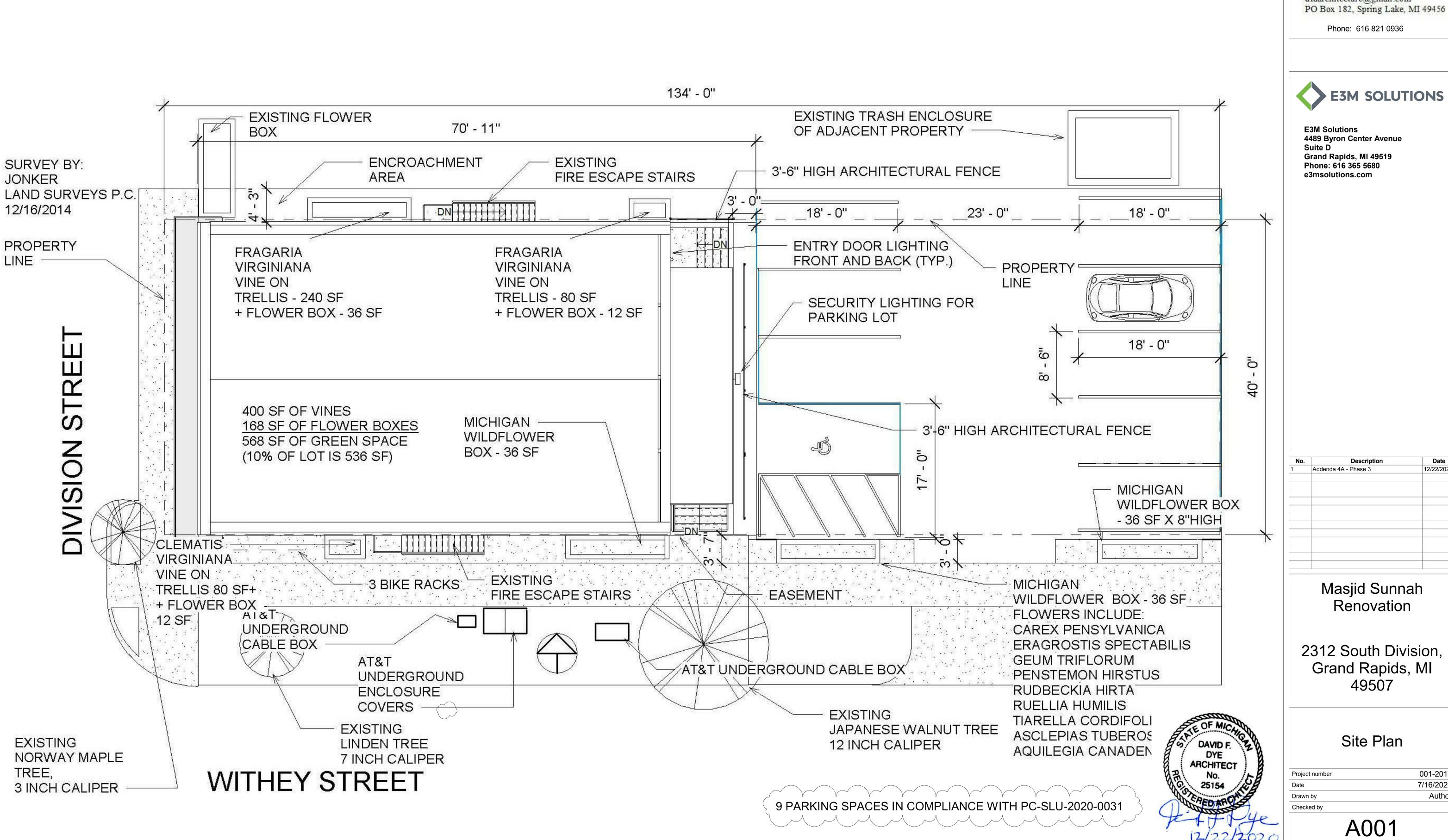
 Date
 7/16/2020

 Drawn by
 DFD

 Checked by
 a

DAVID F.
DYE
ARCHITECT
No.
25154

PED ARCHITECT
12/22/2020







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1	Addenda 4A - Phase 3	12/22/202

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2312 South Division, Grand Rapids, MI 49507

Project number	001-2017
Date	7/16/2020
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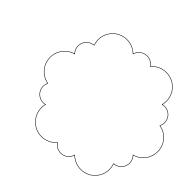
A001

GENERAL BUILDING NOTES

- 1. CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE OWNER OF ANY DIFFERENCES PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. PLEASE CONTACT OWNER FOR BID FORM
- 3. ALL SUBSTITUTE MANUFACTURERS, EQUIPMENT, MATERIALS AND PRODUCTS SHALL BE APPROVED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ALL ASSOCIATED COSTS TO ANY AND ALL BUILDING COMPONENTS THAT ARE AFFECTED BY THE SUBSTITUTIONS. ADDITIONAL COSTS INCLUDE ANY REDESIGN THAT IS REQUIRED DUE TO THE SUBSTITUTION.
- 4. DO NOT SCALE DRAWINGS, THE DIMENSIONS SHOWN ON THE PLANS MAY VARY FROM THE ACTUAL DIMENSIONS IN THE FIELD. IT IS THEREFORE, IMPERATIVE THAT THE CONTRACTOR, PRIOR TO THE COMMENCEMENT OF WORK, TAKE EXACT MEASUREMENTS TO VERIFY ALL THE DIMENSIONS SHOWN ON THE PLANS.
- 5. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE TO NOTIFY THE OWNER WILL NOT RELIEVE THE CONTRACTOR TO COMPLY WITH THE DOCUMENTS. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE AND COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER.
- 6. ALL GYPSUM BOARD TO BE TAPED AND SANDED AT INTERSECTION OF CONSTRUCTION (NO J MOLD). PROVIDE CORNER BEAD AT ALL GYPSUM WALL BOARD CORNERS.
- 7. THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND PRODUCTS" UNLESS OTHERWISE NOTED.
- 8. CONTRACTOR SHALL COORDINATE WORK WITH THE OWNER SO THAT THERE IS NO INTERFERENCE WITH THE OWNER'S PERSONAL OR WORK SCHEDULE.
- 9. ALL WORK TO COMPLY WITH RULES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION.
- 10. SAFE WORKING CONDITIONS AND ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND/OR OWNER SHALL BE OBSERVED. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENTS SHALL APPLY. CARE MUST BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR THE STRUCTURE.
- 11. THE CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL DEBRIS FROM THE SITE AND LEAVE THE AREA BROOM CLEAN ON A WEEKLY BASIS AND PROVIDE DUMPSTER SERVICE. PLACE DUMPSTER AS DIRECTED BY THE OWNER.

- 12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE AGAINST DAMAGE TO EXISTING WORK. ANY DAMAGE TO SUCH WORK SHALL BE REPAIRED OR REPLACE TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL EXPENSE.
- 13. MECHANICAL, ELECTRICAL, AND PLUMBING ARE SCHEMATIC IN NATURE. THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE ROUTING OF THESE TRADES, AS WELL AS, THE OWNER'S WORK TO ASSURE THAT THESE SYSTEMS DO NOT CONFLICT WITH THE ARCHITECTURAL AND STRUCTURAL ELEMENTS OF THE BUILDING. IF THE CONTRACTOR CANNOT ROUTE ANY OF THESE ITEMS TO AVOID A CONFLICT, THEN THEY SHALL NOTIFY THE ARCHITECT PRIOR TO STARTING ANY RELATED WORK.
- 14. THE CONTRACTORS AND SUB CONTRACTORS SHALL BE RESPONSIBLE FOR SECURING AND PAYING ALL PERMITS, APPROVALS, AND CERTIFICATES NECESSARY FOR COMPLETION OF THE PROJECT.
- 15. ALL NEW MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS AND SPECIFICATION.
- 16 THE CONTRACTOR SHALL COORDINATE ALL FINISHES AND COLOR SELECTIONS WITH THE OWNER.

NOTE: THE TECHNICAL SPECIFICATION FOR THE ARCHITECTURAL DRAWINGS ARE IN A SEPARATE 8 1/2 X 11 PROJECT BOOKLET, PLEASE REFER TO IT.





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1	Addenda 4A - Phase 3	12/22/20

Masjid Sunnah Renovation

2312 South Division, Grand Rapids, MI 49507

General Building Notes

110100	
Project number	001-2017
Date	7/16/2020
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A002	

MICHIGAN BUILDING CODE (MBC) AND THE MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS 2015 WERE REVIEWED FOR THIS BUILDING. THE BUILDING IS CONSTRUCTED AS A MASONRY NONCOMBUSTIBLE EXTERIOR WALL AND INTERIOR BUILDING ELEMENTS ARE ANYTHING REQUIRED BY CODE. - TYPE 3 B

THE PROPOSED USES WERE APPROVED ON OCTOBER 22, 2015 AT A SPECIAL LAND USE HEARING BEFORE THE CITY OF GRAND RAPIDS PLANNING COMMISSION. THE SLU ALLOWS THE FIRST FLOOR TO BE USED AS A HOUSE OF WORSHIP NOT TO EXCEED THE MAXIMUM OF 60 OCCUPANTS (PS-SLU-2015-0082)

THE SECOND FLOOR CLASSROOMS, A-3 OCCUPANCY, WERE APPROVED ON JUNE 25, 2020 AT A SPECIAL LAND USE HEARING BEFORE THE CITY OF GRAND RAPIDS PLANNING COMMISSION WITH A TOTAL OF 90 OCCUPANTS ON THE SECOND FLOOR. (PC-SLU-2020-0031)

THE FIRST FLOOR AND SECOND FLOOR WORSHIP IS CLASSIFIED AS ASSEMBLY GROUP A-3 (SECTION 303.4 OF MICHIGAN BUILDING CODE 2015) THE BOOKSTORE ON THE FIRST FLOOR IS CLASSIFIED AS MERCANTILE GROUP M (SECTION 309.1)

SINCE THE USE OF THE SECOND FLOOR AND MOST OF THE FIRST FLOOR IS A-3 ASSEMBLY THERE IS NO FIRE SEPARATION ACCORDING TO TABLE 504.4 WHICH ALLOWS 2 STORIES OF A-3 ASSEMBLY NOT EQUIPPED WITH AUTOMATIC SPRINKLERS SYSTEMS.

THE MAIN STAIR BETWEEN THE FIRST AND SECOND FLOORS IS NOT A FIRE RATED SHAFT BECAUSE IT SERVES OR ATMOSPHERICALLY COMMUNICATES BETWEEN ONLY TWO STORIES (SECTION 1019.3, ARTICLE 1). THERE IS NO FIRE SEPARATION BETWEEN THE M OCCUPANCY AND THE A-3 OCCUPANCY ON THE FIRST FLOOR. THE BASEMENT IS USED FOR STORAGE AND UTILITES AND THERE IS NO FIRE SEPARATION FROM THE FIRST FLOOR.

THERE IS NO ELEVATOR TO SECOND FLOOR BECAUSE AN ACCESSIBLE ROUTE IS NOT REQUIRED IF AN AGGREGATE AREA OF THE SECOND FLOOR IS NOT MORE THAN 3,000 SF (SECTION 1104.4).

FOR THE FIRST FLOOR OCCUPANCY IS A-3, THE OCCUPANT LOAD IS 60. ACCORDING TO TABLE 1006.3.1, TWO EXITS ARE REQUIRED. DUE TO THE SIZE OF THE BUILDING, THE TRAVEL DISTANCES BETWEEN THE EXITS IS A NON ISSUE.

THE SECOND FLOOR OCCUPANCY IS A- 3, THE OCCUPANT LOAD IS 90. ACCORDING TABLE 1006.3.1 TWO EXITS ARE REQUIRED, THE EGRESS TRAVEL DISTANCE IS LESS THAN 75'

THE SECOND FLOOR WORSHIP AREAS HAVE A UNIFORM DISTRIBUTED LIVE LOAD (UDLL) OF 40 POUNDS PER SQUARE FOOT (PSF) EXISTING FLOORS ARE SUFFICIENT TO CARRY THE LOAD. STRUCTURAL SOLUTIONS WERE COMPLETED IN CONSULTATION WITH HOFFMAN CONSULTANTS, LLC, STRUCTURAL CONSULTANTS.

THE CURRENT MECHANICAL AND PLUMBING CODES ARE THE 2015 MICHIGAN MECHANICAL CODE AND MICHIGAN PLUMBING CODE AS CURRENTLY IN EFFECT. THE CURRENT ELECTRICAL CODE IS THE CURRENT NATIONAL ELECTRIC CODE OF 2014 AS ADAPTED BY STATE OF MICHIGAN.

SCOPE OF WORK

AND BASEMENT.

PHASE 2.1 - BASEMENT AND 1ST FLOOR PLAN (SOUTHERN PORTION)

DEMOLITION OF EXISTING WALLS AND CEILING, SOUTH PORTION OF BUILDING (BY OWNER) UNLESS OTHERWISE NOTED ON DRAWINGS.

PROJECT AREA IS ANY ITEMS SOUTH OF THE CENTER OF THE WALL THAT RUNS EAST TO WEST IN THE **BUILDING WITH THESE ADDITIONAL STIPULATIONS:**

ROUGH IN PLUMBING FOR MEN'S ROOM 4

COMPLETE THE ONE HOUR FIRE RATING FOR THE ENCLOSURE OF THE STAIR FROM THE FIRST TO SECOND FLOOR.

(BOTH SIDES OF THE STAIRS).

REPAIR OR REPLACE ANY BROKEN WINDOWS OR GLASS IN THE BUILDING.

ANY EXISTING DAMAGED WALLS, REPAIR AND PAINT

WHEN PHASE 2.1 IS COMPLETE, THE HEATING, COOLING, ELECTRICAL, PLUMBING (WATER AND SEWER) SHALL BE FULLY OPERATIONAL FOR THE

FIRST FLOOR AND BASEMENT ON THE SOUTH HALF OF THE BUILDING.

PLUMBING UPDATES TO THE FLOOR OF SECOND FLOOR PLAN SHALL BE INCLUDED IN PHASE 2.1 PHASE 2.2 - BASEMENT AND FIRST FLOOR PLAN (NORTHERN PORTION)

DEMOLITION OF EXISTING WALLS AND DROPPED CEILING, NORTH PORTION OF BUILDING (BY OWNER) UNLESS OTHERWISE NOTED ON THE DRAWINGS.

PROJECT AREA IS ANY ITEMS NORTH OF THE CENTER OF THE WALL THAT RUNS EAST TO WEST IN THE **BUILDING WITH THESE ADDITIONAL STIPULATIONS:**

COMPLETE EVERYTHING IN THE MEN'S ROOM (PLUMBING FIXTURES AND ACCESSORIES.) ANY EXISTING DAMAGED WALLS, REPAIR AND PAINT

INSTALL AND CONNECT HEATING AND COOLING, ELECTRICAL, PLUMBING, (WATER AND SEWER) TO MAKE IT FULLY OPERATIONAL ON THE FIRST FLOOR

PLUMBING UPDATES TO THE FLOOR OF THE SECOND FLOOR SHALL BE INCLUDED IN PHASE 2.2 ANY ITEM MISSED ON PHASE 2.1 AND SHOWN ON THE DRAWINGS, NEEDS TO BE COMPLETED IN PHASE 2.2

PHASE 3 - DEMOLITION OF WALLS OF APARTMENTS - INSTALLATION OF NEW WALLS AND CEILING FOR SECOND FLOOR ROOMS AND MAIN STAIR. INSTALL AND CONNECT HEATING AND COOLING, ELECTRICAL, PLUMBING TO MAKE SECOND FLOOR

FULLY OPERATIONAL. INSTALL DOORS 15 - 19 AND 30 - 37



DFD Architecture, LLC

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No.	Description	Date
1	Addenda 4A - Phase 3	12/22/202

Masjid Sunnah Renovation

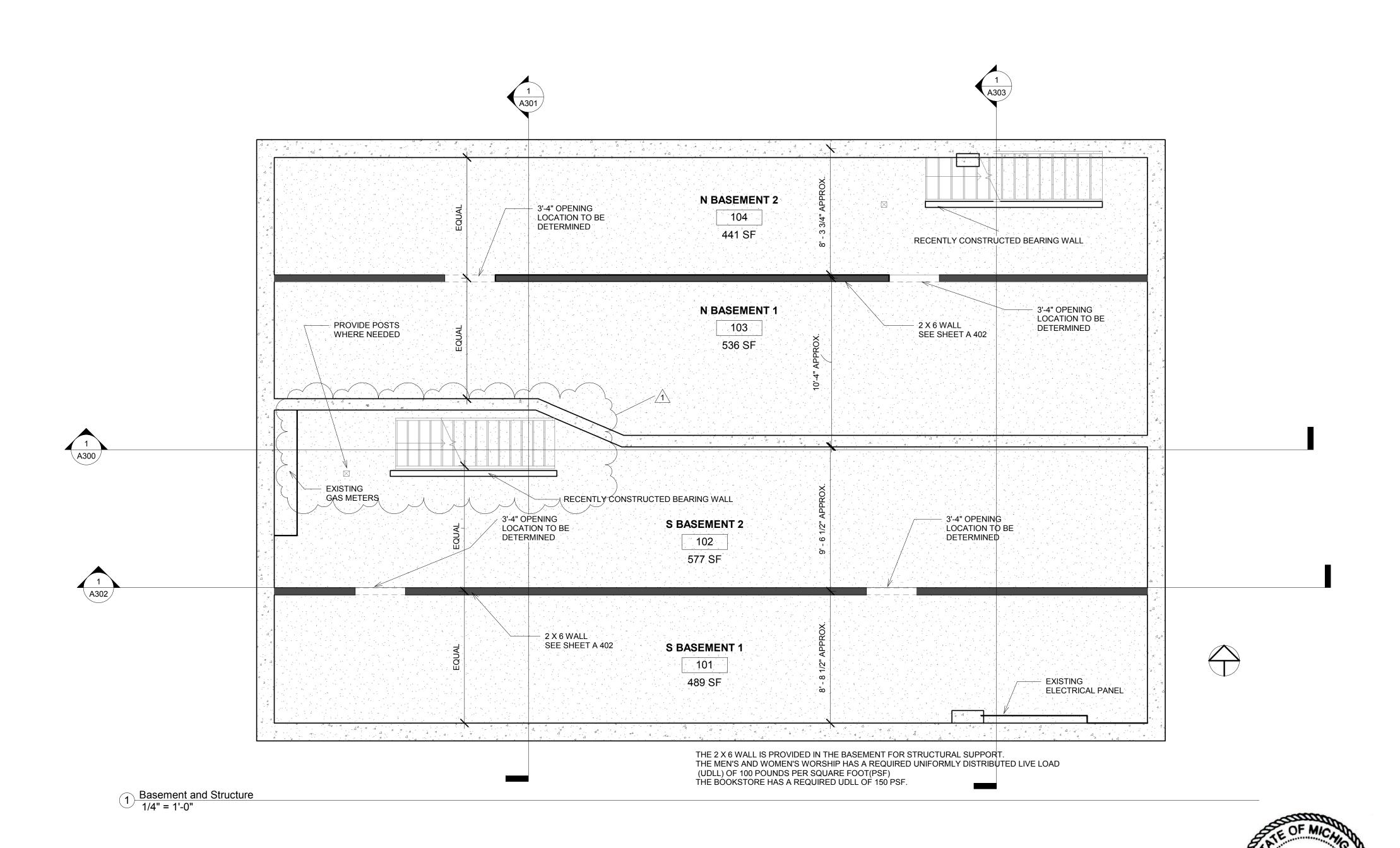
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Bldg Codes/Phase **Descriptions**

ARCHITECT

001-2017 Project number 7/16/2020

A003





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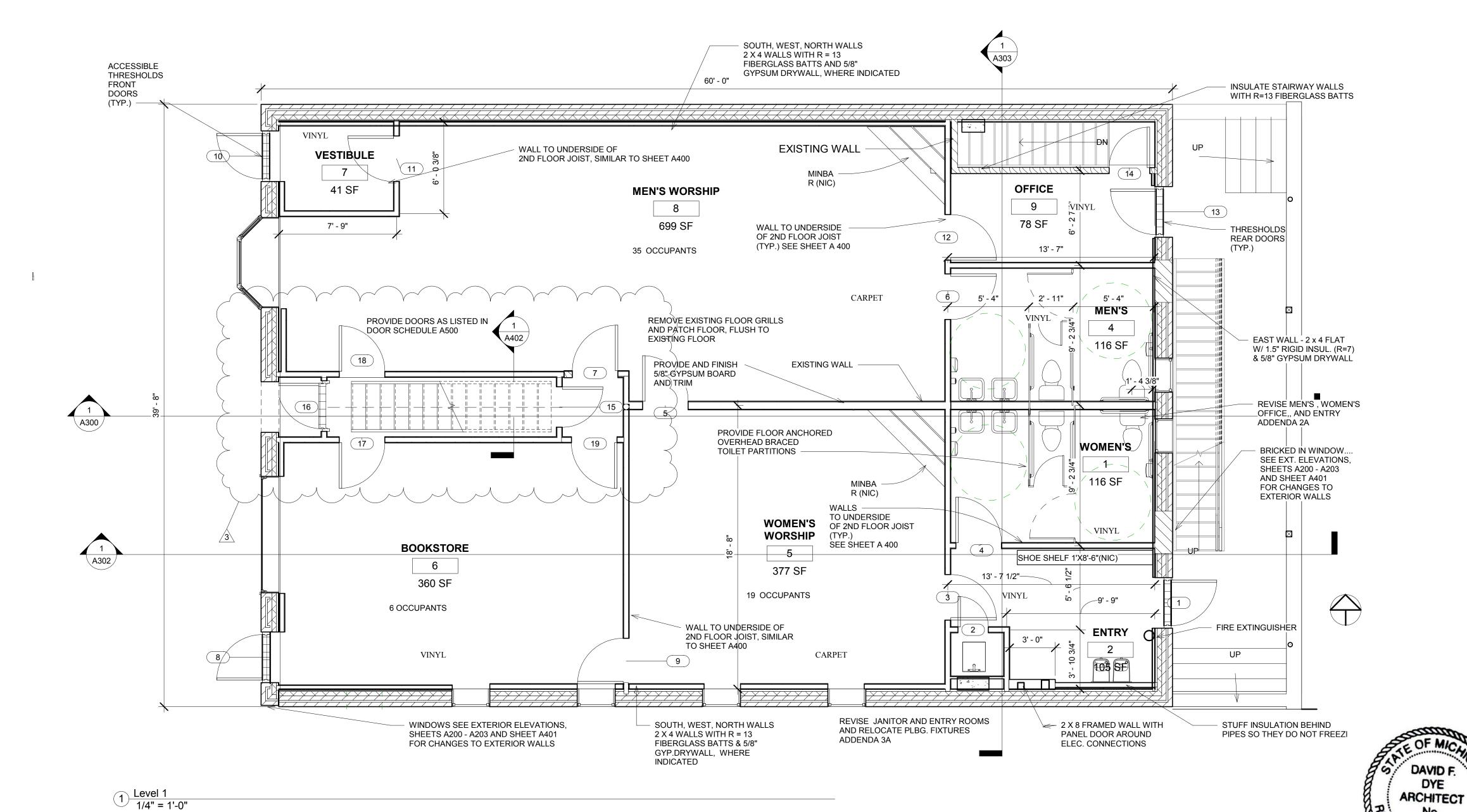
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2312 South Division, Grand Rapids, MI 49507

Basement Plan

Project number	001-2017
Date	7/16/2020
Drawn by	Author
Checked by	е

A100



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No.	Description	Date
1	Addenda 2A	4/10/2019
2	Addenda 3A	4/19/2019
3	Addenda 4A - Phase 3	12/22/2020

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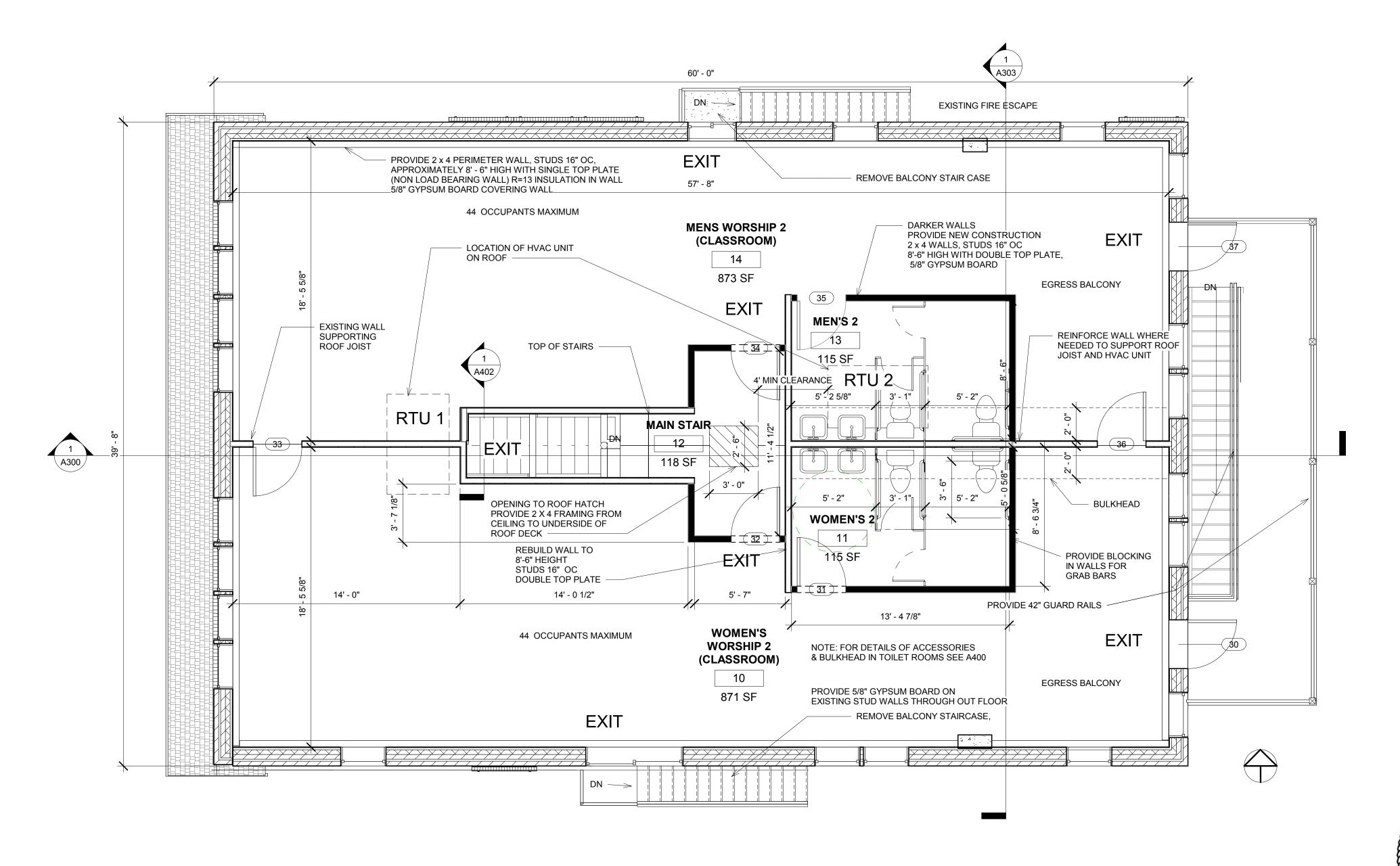
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1st Floor Plan

001-2017 Project number 7/16/2020 David Dye Drawn by Checked by

1/4" = 1'-0"

A101





NOTE: ENTIRE FLOOR RENOVATED FOR PHASE 3 - ADDENDA 4A



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1	Addenda 4A - Phase 3	12/22/202

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2312 South Division, Grand Rapids, MI 49507

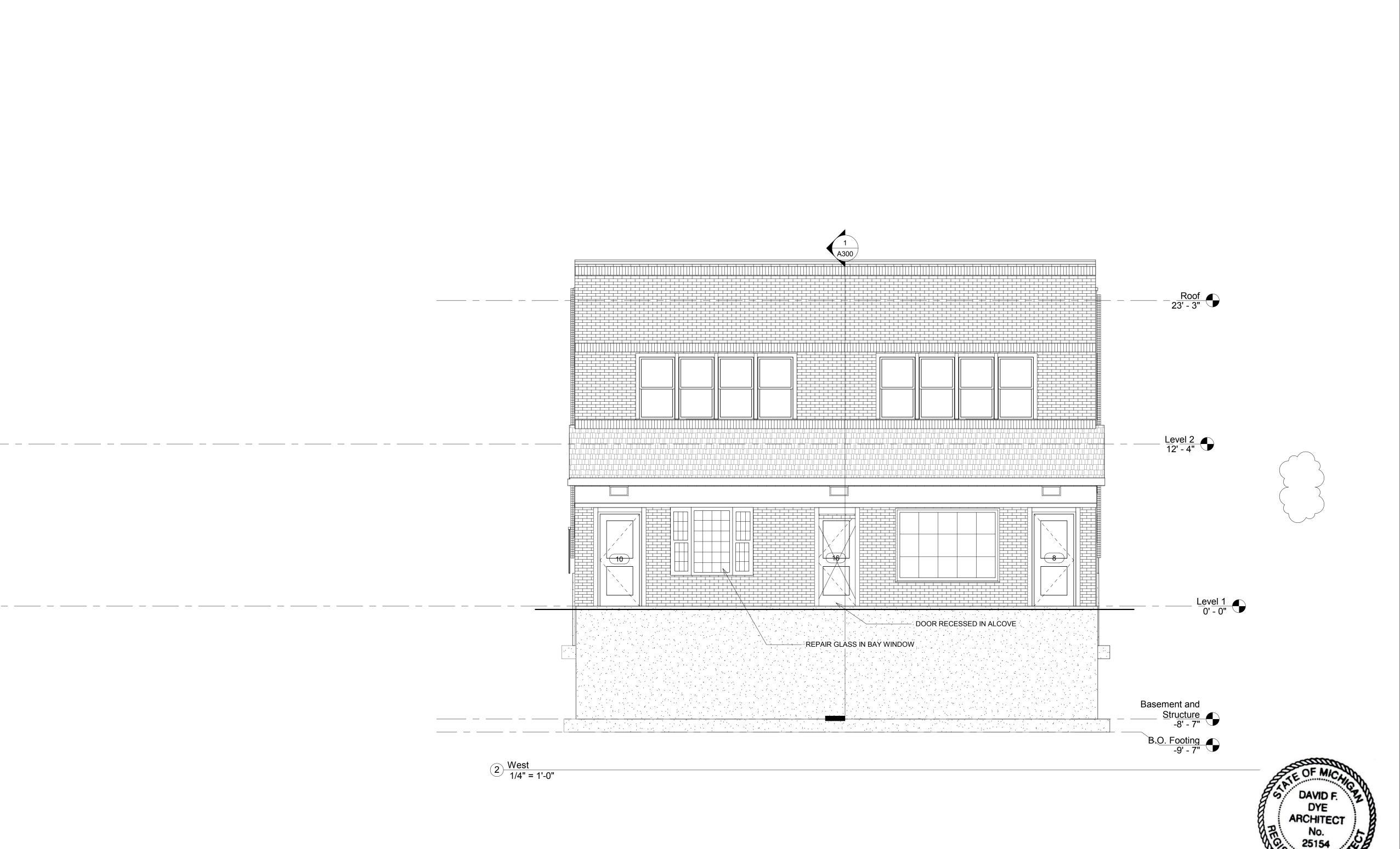
2nd Floor Plan

DAVID F.

ARCHITECT

Project number	001-2017
Date	7/16/2020
Drawn by	Author
Checked by	g

A102







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No.	Description	Date
1	Addenda 4A - Phase 3	12/22/202

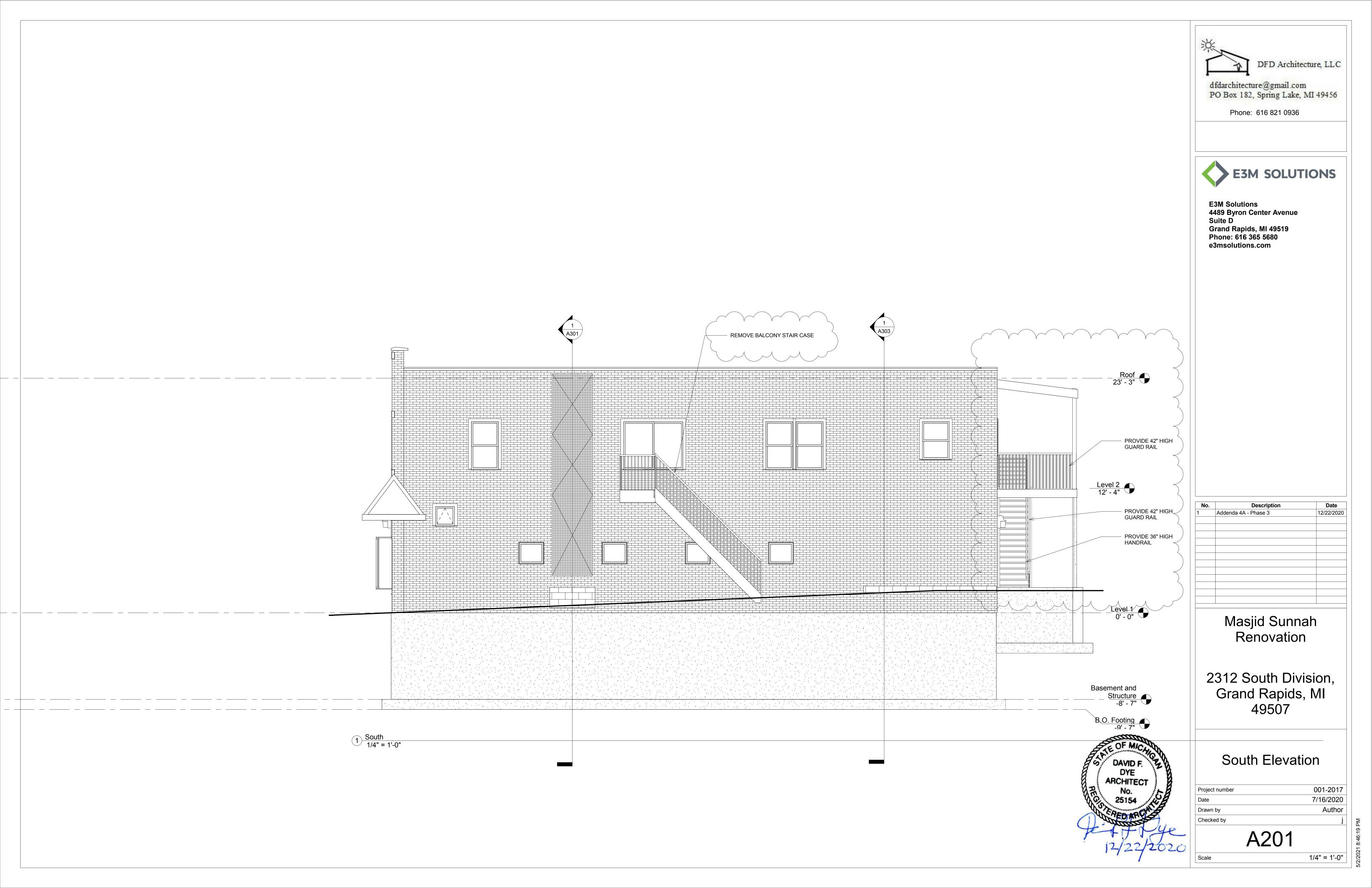
Masjid Sunnah Renovation

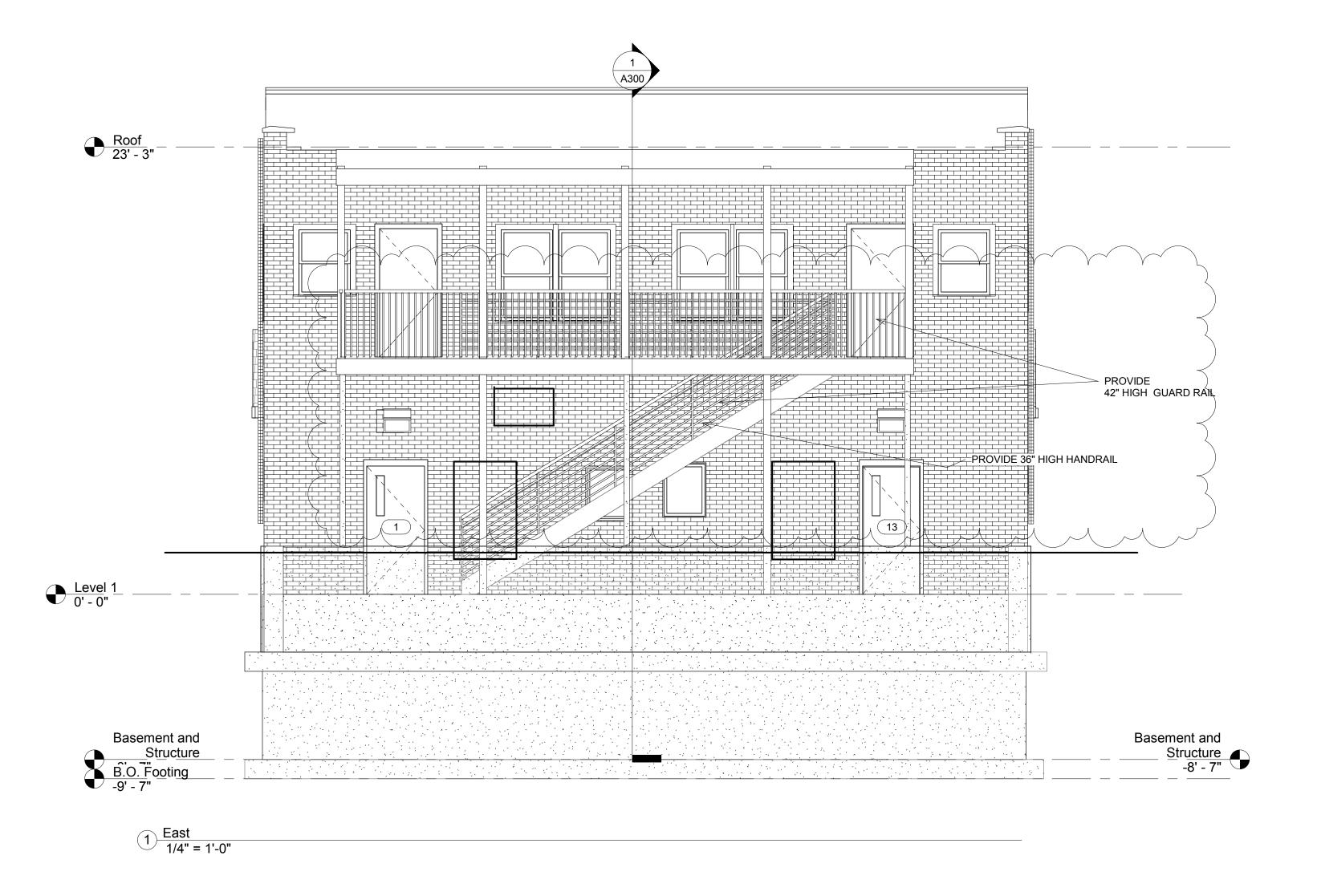
2312 South Division, Grand Rapids, MI 49507

West Elevation

Project number	001-2017
Date	7/16/2020
Drawn by	Author
Checked by	i

A200









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No.	Description	Date
1	Addenda 4A - Phase 3	12/22/202
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East Elevation

Project number	001-2017
Date	7/16/2020
Drawn by	Author
Checked by	k

A202

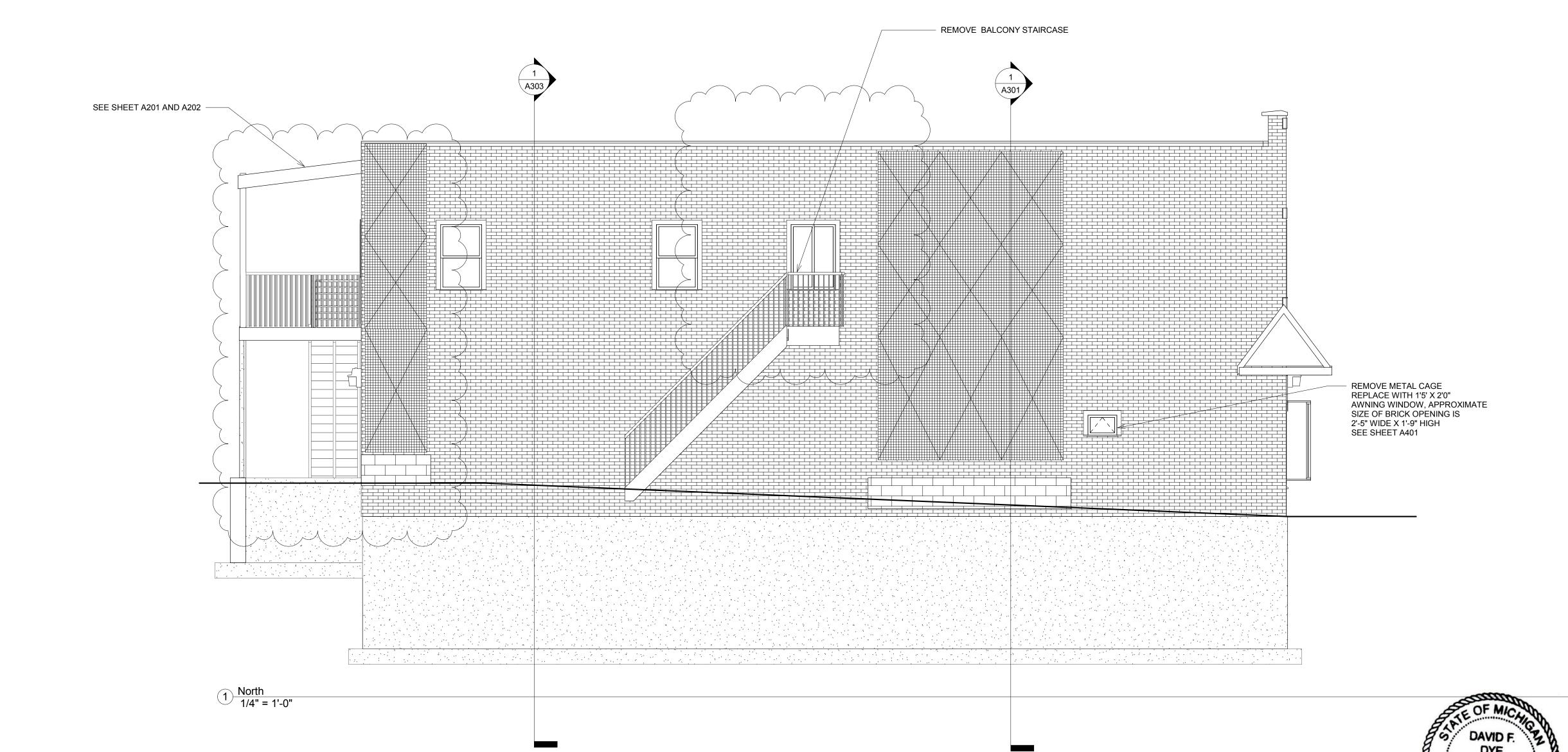
1/4" = 1'-0"

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No.	Description	Date
1	Addenda 4A - Phase 3	12/22/2020

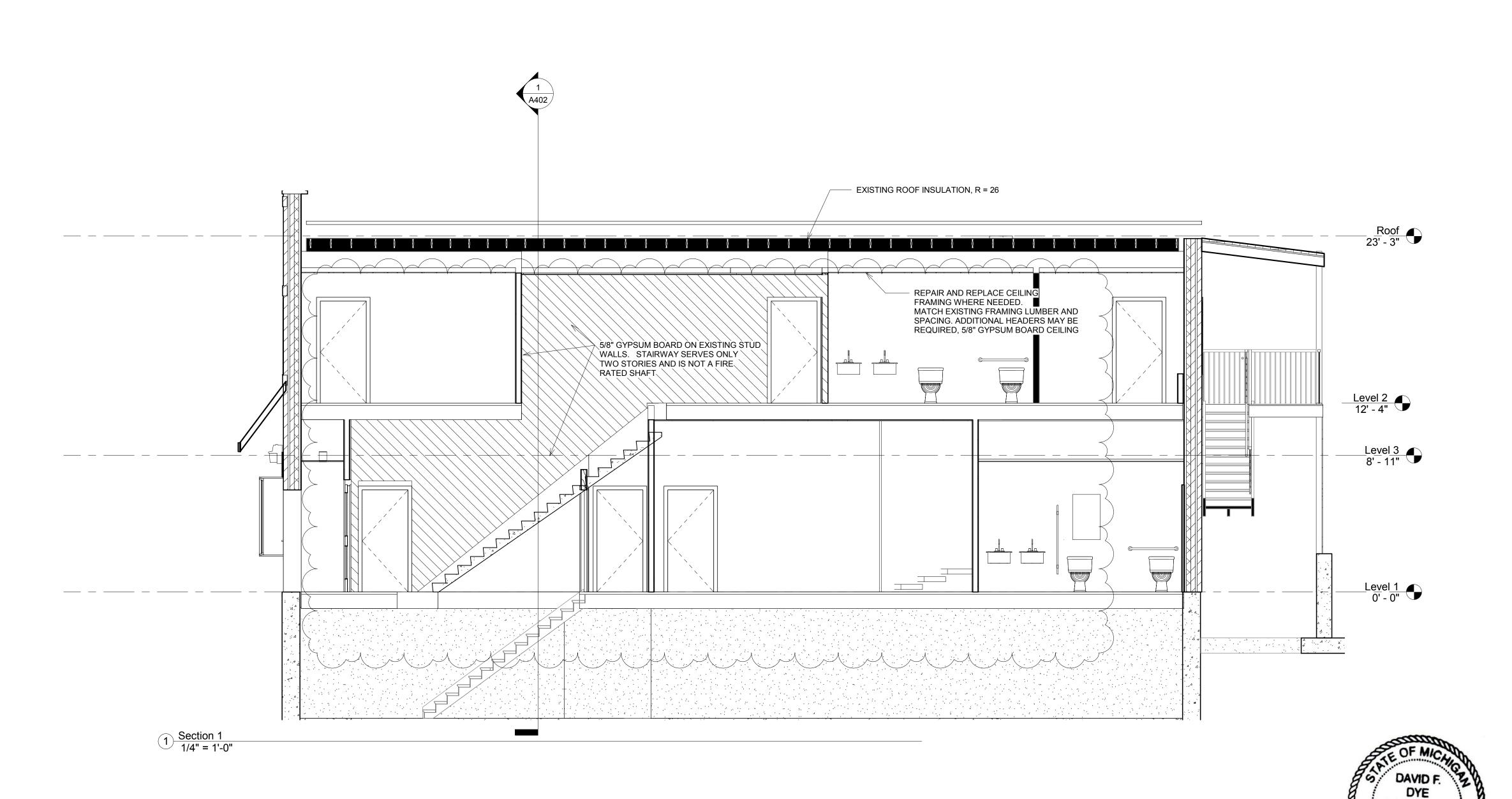
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2312 South Division, Grand Rapids, MI 49507

North Elevation

Project number	001-2017
Date	7/16/2020
Drawn by	Author
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A203







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No.	Description	Date
1	Addenda 4A - Phase 3	12/22/202

Masjid Sunnah Renovation

2312 South Division, Grand Rapids, MI 49507

Building Section

Project number	001-2017
Date	7/16/2020
Drawn by	Author
Checked by	m

A300

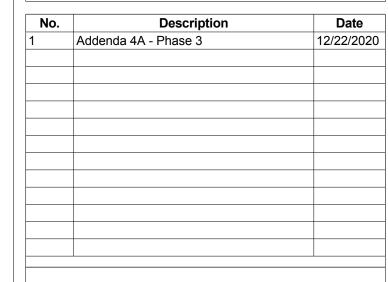
1/4" = 1'-0"

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2312 South Division, Grand Rapids, MI 49507



Building Section

Project number	001-2017
Date	7/16/2020
Drawn by	Author
Checked by	m1

A303

1/4" = 1'-0"

1 Section 11 1/4" = 1'-0"

REPAIR AND REPLACE CEINING RANDAU SEPLACE CEINING MATCH EXISTING FRAMING LUMBER AND SPACING, ADDITIONAL HEADESIS MAY BE REQUIRED, 58' GYPSUM BOARD CEILING

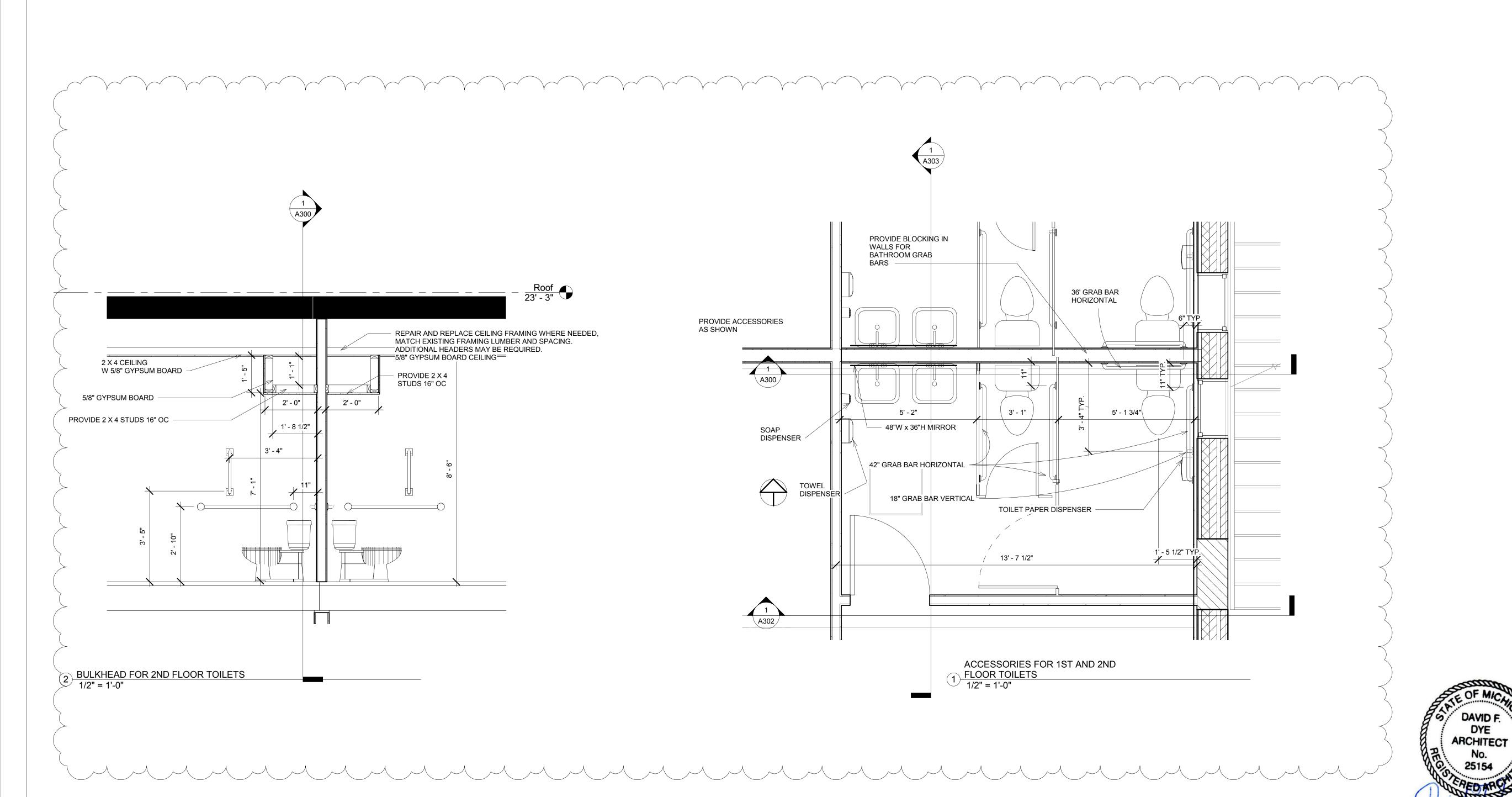
Level 3
8'-11"

Level 1
0'-0"

EXISTING ROOF INSULATION, R = 26

Basement and
Structure
B.O. Footing
-9' - 7"

REINFORCE WALL WHERE NEEDED TO SUPPORT ROOF JOIST AND HVAC UNIT







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2312 South Division, Grand Rapids, MI 49507

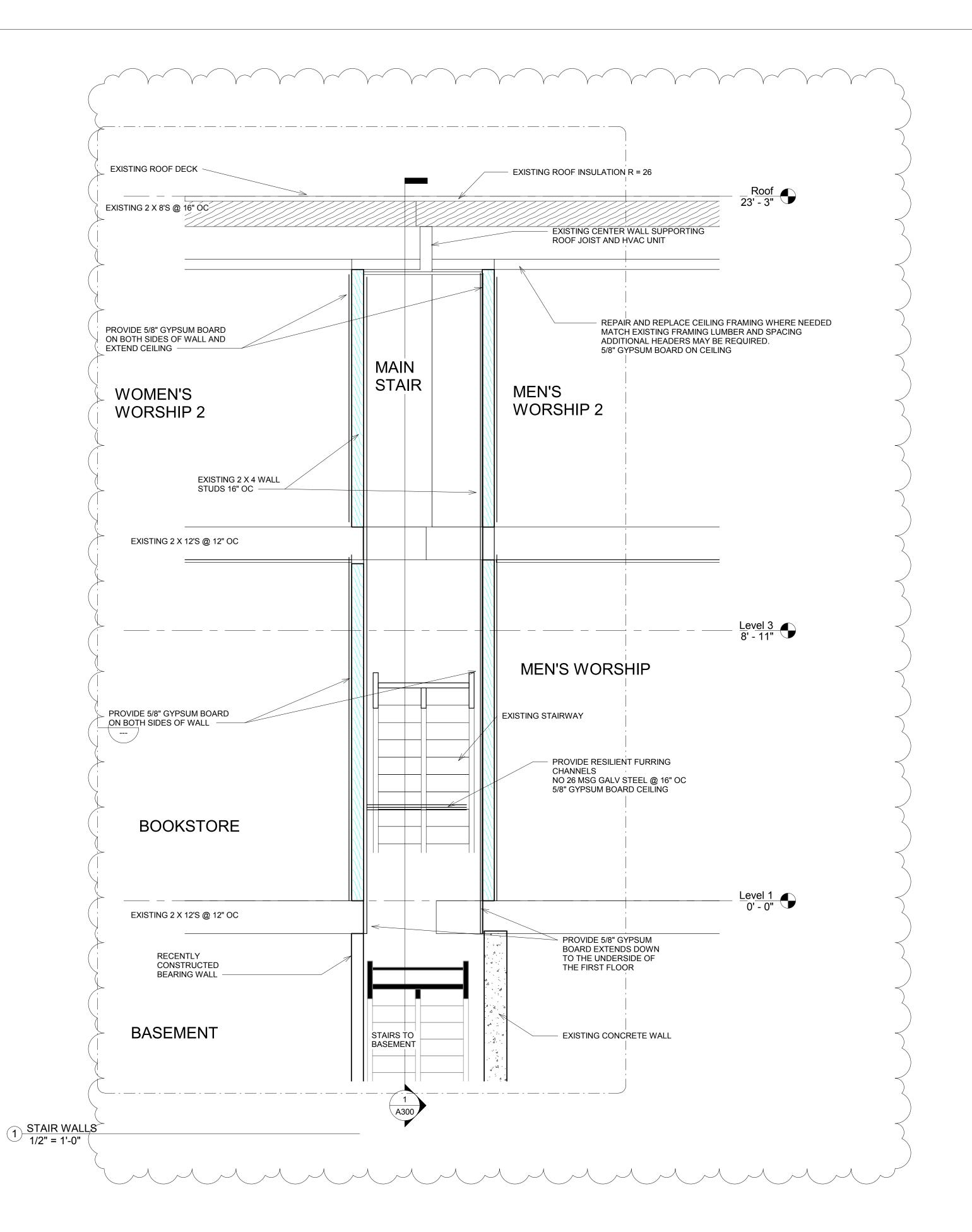
Wall Sections and Detailed Plans

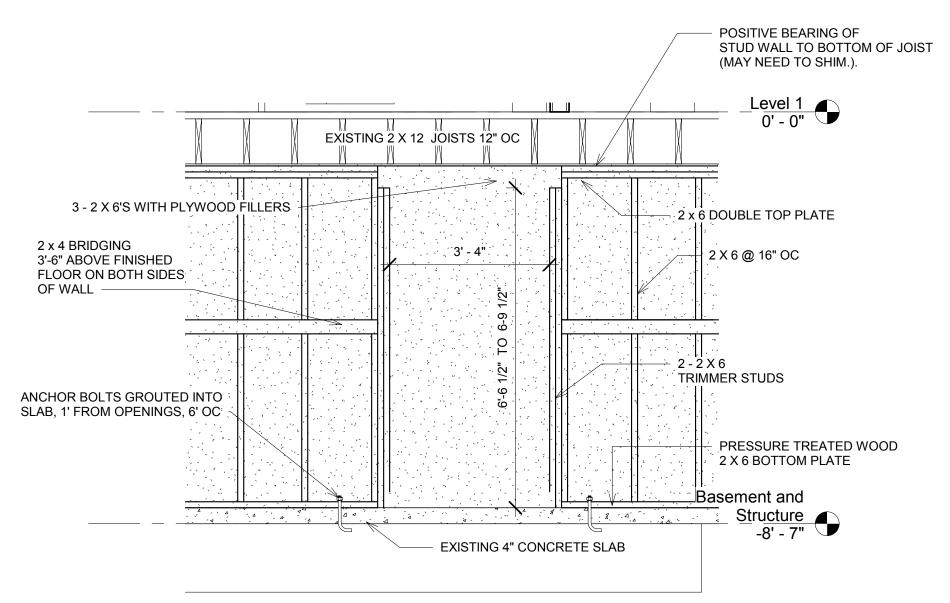
Project number	001-2017
Date	7/16/2020
Drawn by	Author
Checked by	р

A400

1/2" = 1'-0"

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A 2 X 6 STUD WALL IS PROVIDED IN THE BASEMENT TO SUPPORT THE FIRST FLOOR LIVE LOAD OF THE MEN'S AND WOMEN'S WORSHIP AREA AND THE BOOKSTORE.

THE MEN'S AND WOMEN'S WORSHIP AREAS ARE CONSIDERED AN ASSEMBLY OCCUPANCY WITH A UNIFORMLY DISTRIBUTED LIVE LOAD OF A 100 POUNDS PER SQUARE FOOT. THE BOOKSTORE IS CONSIDERED A LIBRARY STACKED AREA WITH A UNIFORMLY DISTRIBUTED LIVE LOAD OF 150 POUNDS PER SQUARE FEET

2 STUD WALL DETAIL 1/2" = 1'-0"





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No.	Description	Date
1	Addenda 4A - Phase 3	12/22/202

Masjid Sunnah Renovation

2312 South Division, Grand Rapids, MI 49507

Building Details - Interior Walls

 Project number
 001-2017

 Date
 7/16/2020

 Drawn by
 Author

 Checked by
 r

A402

1/2" = 1'-0"

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		Door Schedule								T			
					or					Frame			
Door Number	Door Types	Width	Height	Thickn ess	Material	Finish	Fire Rating	Hardware	Ty pe		Finish	Frame Header	Comments
1	В	3' - 0"	6' - 8"	0' - 1 3/4"	STEEL	PAINTED	NO	KEYED EXT. PANIC	2	НМ	PAINTED	A501-2	INSUL., WSTRIP, THRESHOLD, CLOSER
2	С	2' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	PUSH/PULL HDWR - KEYED LOCK	4	WOOD	PAINTED	A501-4	
3	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	PUSH/PULL HDWR	4	WOOD	PAINTED	A501-4	
4	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	PUSH/PULL HDWR-PRIVACY LOCK	4	WOOD	PAINTED	A501-4	
5	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	PUSH/PULL HDWR	4	WOOD	PAINTED	A501-4	
6	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	PUSH/PULL HDWR-PRIVACY LOCK	4	WOOD	PAINTED	A501-4	
7	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	KEYED DOOR	4	WOOD	PAINTED	A501-4	
8	A	3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	PAINTED	NO	KEYED EXT. PANIC	1	НМ	PAINTED	A501-1	INSUL., WSTRIP, ACCESS THRESHOLD, CLOSER
9	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	KEYED PANIC	4	WOOD	PAINTED	A501-4	
10	A	3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	PAINTED	NO	KEYED EXT. PANIC	1	НМ	PAINTED	A501-1	INSUL., WSTRIP, ACCESS THRESHOLD, CLOSER
11	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	PUSH/PULL HDWR	4	WOOD	PAINTED	A501-4	
12	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	KEYED DOOR	4	WOOD	PAINTED	A501-4	
13	В	3' - 0"	6' - 8"	0' - 1 3/4"	STEEL	PAINTED	NO	KEYED EXT. DOOR	2	HM	PAINTED	A501-2	INSULATED, WSTRIP, THRESHOLD
14	C	2' - 8"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	KEYED DOOR	4	WOOD	PAINTED	A501-4	MUST EXIT FROM BASEMENT
15	С	2' - 8"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	KEYED DOOR	3	WOOD	PAINTED	A501-3	MUST EXIT FROM BASEMENT
16	A	3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	PAINTED	NO	KEYED EXT. PANIC	2	HM	PAINTED	A501-2	INSULATED, WSTRIP, THRESHOLD
17	С	3' - 0"	6' - 8"	0' - 2"	STEEL	PAINTED	NO	KEYED DOOR	3	НМ	PAINTED	A501-3	
18	С	3' - 0"	6' - 8"	0' - 2"	STEEL	PAINTED	NO	KEYED DOOR	3	HM	PAINTED	A501-3	
19	С	3' - 0"	6' - 8"	0' - 2"	STEEL	PAINTED	NO	PUSH/PULL HDWR	3	HM	PAINTED	A501-3	
30	С	3' - 0"	6' - 8"	0' - 2"	STEEL	PAINTED	NO	KEYED EXT. PANIC	2	HM	PAINTED	A501-2	INSUL., WSTRIP, THRESHOLD, CLOSER
31	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	PUSH/PULL HDWR - KEYED LOCK	4	WOOD	PAINTED	A501-4	
32	С	3' - 0"	6' - 8"	0' - 2"	STEEL	PAINTED	NO	PUSH/PULL HDWR	3	НМ	PAINTED	A501-3	CLOSER
33	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	PUSH/PULL HDWR	4	WOOD	PAINTED	A501-4	
34	С	3' - 0"	6' - 8"	0' - 2"	STEEL	PAINTED	NO	PUSH/PULL HDWR	3	HM	PAINTED	A501-3	CLOSER
35	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	PUSH/PULL HDWR - KEYED LOCK	4	WOOD	PAINTED	A501-4	
36	С	3' - 0"	6' - 8"	0' - 2"	WOOD	PAINTED	NO	PUSH/PULL HDWR	4	WOOD	PAINTED	A501-4	
37	С	3' - 0"	6' - 8"	0' - 2"	STEEL	PAINTED	NO	KEYED EXT. PANIC	2	HM	PAINTED	A501-2	INSUL., WSTRIP, THRESHOLD, CLOSER



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No.	Description	Date
1	Addenda 4A - Phase 3	12/22/2020
		•

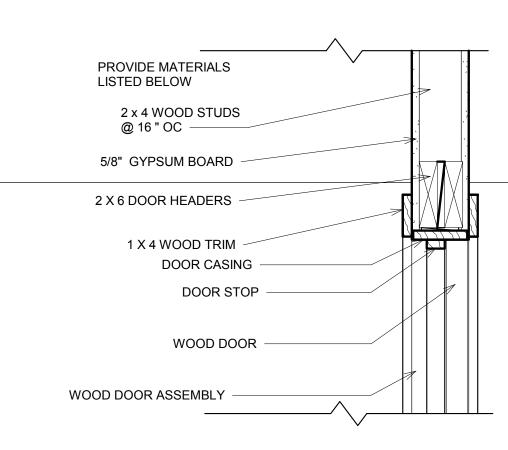
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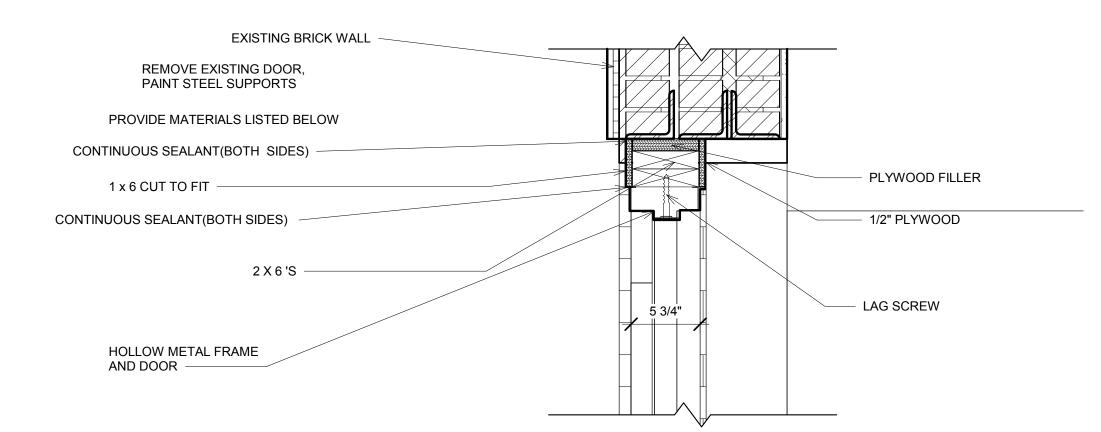
Door Schedule

Project number	001-2017
Date	7/16/2020
Drawn by	Author
Checked by	S

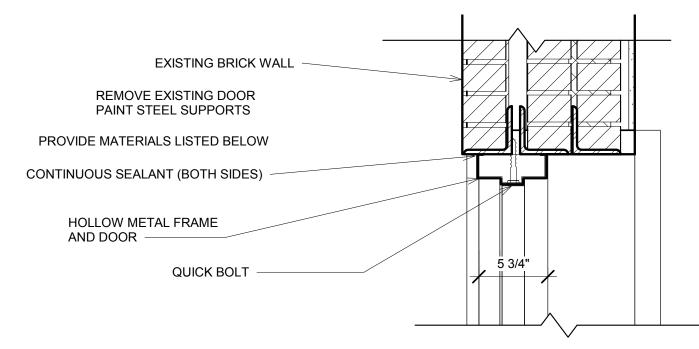
A500



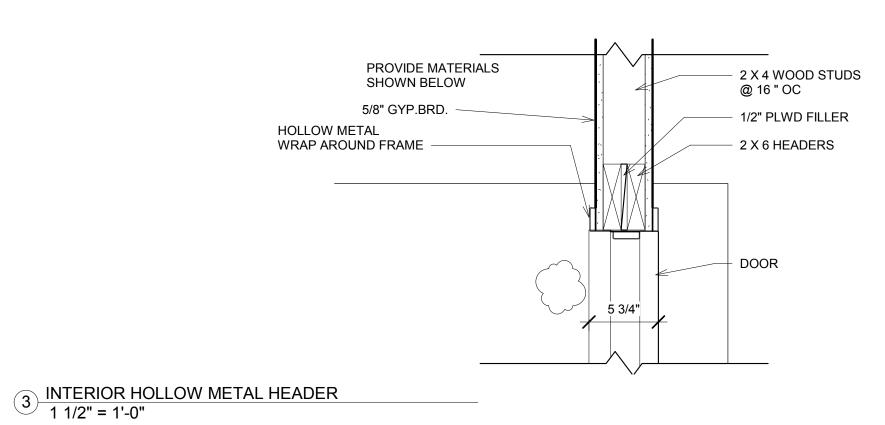
4 TYPICAL WOOD DOOR HEADER 1 1/2" = 1'-0"

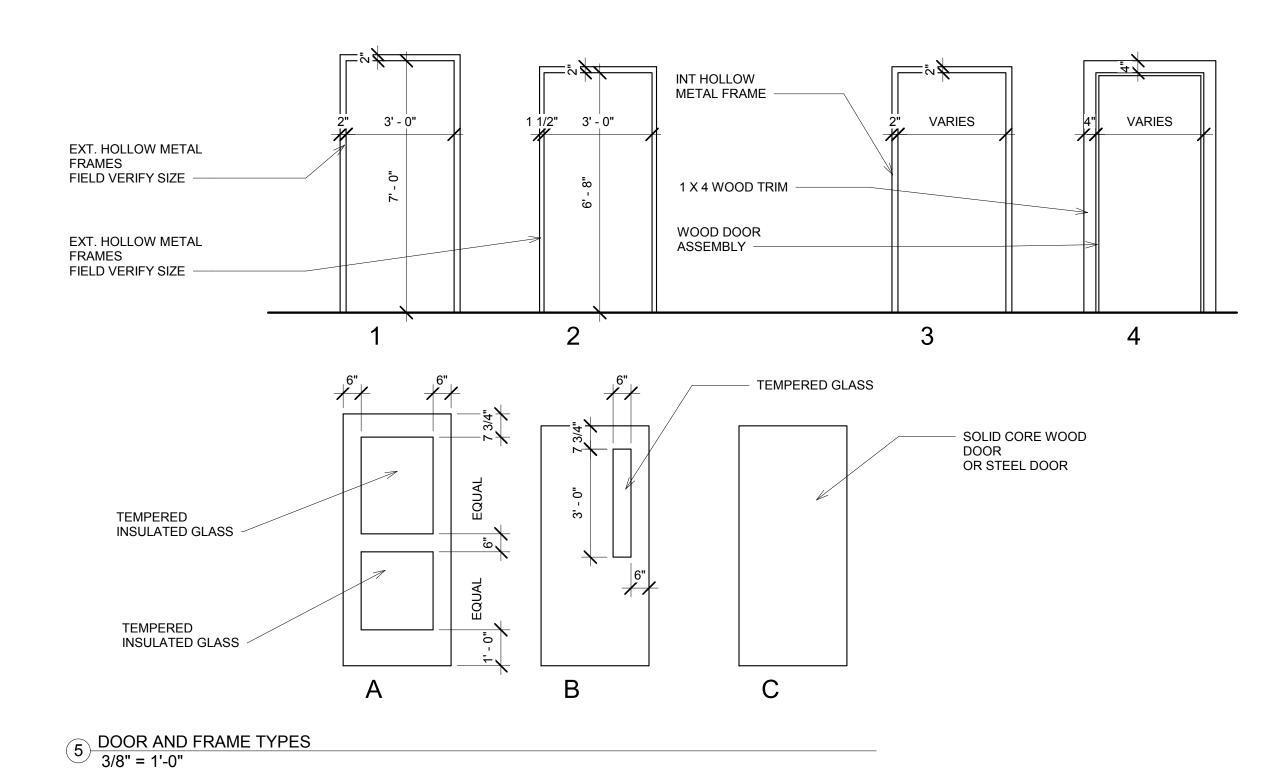


1 FRONT DOOR HEADER 1 1/2" = 1'-0"



2 BACK DOOR HEADER 1 1/2" = 1'-0"







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No.	Description	Date
1	Addenda 4A - Phase 3	12/22/202

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2312 South Division, Grand Rapids, MI 49507

Door Details

DAVID F.

ARCHITECT

Project number	001-2017
Date	7/16/2020
Drawn by	Author
Checked by	t

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As indicated

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				Room Schedule			
Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Ceiling Height	Comments
1	WOMEN'S	Vinyl Plank	Vinyl	Paint Gyp. Board, Repair and Paint Plaster	Gypsum Board/Accoustical Tile	8' - 6"	
2	ENTRY	Vinyl Plank	Vinyl	Paint Gyp. Board, Repair and Paint Plaster	Gypsum Board/Accoustical Tile	8' - 6"	
	JANITOR	Vinyl Plank	Vinyl	Paint Gyp. Board, Repair and Paint Plaster	Gypsum Board, Finished and Painted	11' - 2"	
	MEN'S	Vinyl Plank	Vinyl	Paint Gyp. Board, Repair and Paint Plaster	Gypsum Board/Accoustical Tile	8' - 6"	
5	WOMEN'S WORSHIP	Nylon Comm. Carpet w/ Pad	Wood Base to match existing	Paint Gyp. Board, Repair and Paint Plaster	Gypsum Board, Finished and Painted	11' - 2"	New Gypsum Board on North Wall
5	BOOKSTORE	Vinyl Plank	Wood Base to match w shoe molding	Paint Gyp. Board, Repair and Paint Plaster	Gypsum Board, Finished and Painted	11' - 2"	
7	VESTIBULE	Vinyl Plank	Vinyl	Paint Gyp. Board, Repair and Paint Plaster	Gyp Board/Accoustical Tile	8' - 6"	
3	MEN'S WORSHIP	Nylon Comm. Carpet w/ Pad	Wood Base to match existing	Paint Gyp. Board, Repair and Paint Plaster	Gypsum Board, Finished and Painted	11' - 2"	Remove Floor Grates and patch with 3/4" plywood panels
	OFFICE	Vinyl Plank	Vinyl	Paint Gyp. Board, Repair and Paint Plaster	Gyp Board/Accoustical Tile	8' - 6"	
0	WOMEN'S WORSHIP 2 (CLASSROOM)	Nylon Comm. Carpet w/ Pad	Vinyl	Gypsum Board, Finished and Painted	Gypsum Board, Finished and Painted	8' - 4"	
11	WOMEN'S 2	Vinyl Plank	Vinyl	Gypsum Board, Finished and Painted	Gypsum Board, Finished and Painted	8' - 4"	
2	MAIN STAIR	Rubber Floor Tile & Stair Tread	Vinyl	Gypsum Board, Finished and Painted	Gypsum Board, Finished and Painted	8' - 4"	Rubber Floor Tile by Musson Rubber
3	MEN'S 2	Vinyl Plank	Vinyl	Gypsum Board, Finished and Painted	Gypsum Board, Finished and Painted	8' - 4"	
4	MENS WORSHIP 2 (CLASSROOM)	Nylon Comm. Carpet w/ Pad	Vinyl	Gypsum Board, Finished and Painted	Gypsum Board, Finished and Painted	8' - 4"	



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No.	Description	Date
1	Addenda 4A - Phase 3	12/22/202
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Room Schedule

001-2017 Project number 7/16/2020 Drawn by Author Checked by

A502

PLUMBING SYMBOL LEGEND

	PIPING/VALVES	ABBREVIATIONS		
	PIPING FLEXIBLE CONNECTION	AFF BFF	ABOVE FINISHED FLOOR BELOW FINISHED FLOOR	
	ECCENTRIC REDUCER / TRANSITION	CO	CLEAN OUT COLD WATER	
-D $-$	CONCENTRIC REDUCER / TRANSITION	ELNG EXIST	ELONGATED EXISTING	
•	WATER HAMMER ARRESTOR	FFA FFB FLR	FROM FLOOR ABOVE FROM FLOOR BELOW FLOOR	
◆	AIR ADMITTANCE VALVE	FLSH GC	FLUSH GENERAL CONTRACTOR	
₩-	BALL VALVE	HW HWR IF	HOT WATER HOT WATER RETURN INVERT ELEVATION	
$-\!\!\bowtie\!\!-$	GATE VALVE	LAV MC	LAVATORY MECHANICAL CONRACTOR	
<u></u> —Г	BUTTERFLY VALVE	MNT PC	MOUNT PLUMBING CONTRACTOR	
	CHECK VALVE (ARROW INDICATES DIRECTION OF FLOW)	SAN STRM	SANITARY STORM SEWER	
	OS&Y VALVE	ST. STL. TFA	STAINLESS STEEL TO FLOOR ABOVE	
 	PIPE UNION	TFB V VAL	TO FLOOR BELOW VENT VALVE	
─ ►	PRESSURE REDUCING VALVE	VTR VBG	VENT THROUGH ROOF VENT BELOW GRADE	
	CALIBRATED MANUAL BALANCING VALVE	VBF W/ WTR	VENT BELOW FLOOR WITH WATER	
 ▼	COCK VALVE	*****	William	
			LINE TYPES	

	SANITARY	
	SANITART	COLD WATER
	FLOOR DRAIN	——————————————————————————————————————
Ū	. 2001. 2.12	——————————————————————————————————————
О	FLOOR SINK	——————————————————————————————————————
	120011011111	——— — HOT WATER RECIRC. (115°F)
>	FLOOR CLEANOUT	—— — · — · — HOT WATER RECIRC. (140°F)
v	1 2001(022/ 11001	— GAS — GAS — GAS — SAS — NATURAL GAS
$\vdash \supset \vdash$	WALL CLEANOUT	
1 3	WALE GELANGOT	———— SAN————— SANITARY WASTE
—	INLINE CLEANOUT	ST STORM SEWER (ABOVE GRADE
	INTERNE GEE/ INCOT	ST STORM SEWER (BELOW GRADE
		VENT
		CA——— COMPRESS AIR
	SITE/SERVICE	V
	OTTE/GETTVIOE	RO REVERSE OSMOSIS WATER
_ 	4 DD7 (DALL \/AL\/E\	MA——— MEDICAL AIR
	☐ RPZ (BALL VALVE)	N2 NITROGEN
,+ <u>~~</u> ,+	A DD7 (000V)(ALVE)	——— N2O——— NITROUS OXIDE
	RPZ (OS&Y VALVE)	

AT 18" ABOVE GRADE. DOWNSPOUT NOZZLE

NON-FREEZE WALL HYDRANT MOUNTED

GENERAL

WATER METER

----O RISE

—□— DROP

─── TEE DROP

———] END CAP

DIRECTION OF FLOW

CONTINUATION

CONNECT TO EXISTING

EMERGENCY EYEWASH

A LIGHTER WEIGHT.

1. EXISTING USE THE SAME LINETYPE AS NEW WITH

LEGEND NOTES:

	PIPING/VALVES		ABBREVIATIONS
	PIPING FLEXIBLE CONNECTION	AFF BFF	ABOVE FINISHED FLOOR BELOW FINISHED FLOOR
	ECCENTRIC REDUCER / TRANSITION	CO CW	CLEAN OUT COLD WATER
-D $-$	CONCENTRIC REDUCER / TRANSITION	ELNG EXIST FFA	ELONGATED EXISTING FROM FLOOR ABOVE
-	WATER HAMMER ARRESTOR	FFB FLR	FROM FLOOR BELOW FLOOR
\	AIR ADMITTANCE VALVE	FLSH GC HW	FLUSH GENERAL CONTRACTOR HOT WATER
- ₩-	BALL VALVE	HWR IE	HOT WATER HOT WATER RETURN INVERT ELEVATION
\longrightarrow	GATE VALVE	LAV MC	LAVATORY MECHANICAL CONRACTOR
— —	BUTTERFLY VALVE	MNT PC	MOUNT PLUMBING CONTRACTOR
\perp	CHECK VALVE (ARROW INDICATES DIRECTION OF FLOW)	SAN STRM	SANITARY STORM SEWER
→	OS&Y VALVE	ST. STL. TFA TFB	STAINLESS STEEL TO FLOOR ABOVE TO FLOOR BELOW
—-	PIPE UNION	V VAL	VENT VALVE
─ ►►	PRESSURE REDUCING VALVE	VTR VBG	VENT THROUGH ROOF VENT BELOW GRADE
————	CALIBRATED MANUAL BALANCING VALVE	VBF W/ WTR	VENT BELOW FLOOR WITH WATER
	COCK VALVE		
			LINE TYPES

	COLD WATER
V— — —	COLD WATER BELOW GRADE
	HOT WATER (115°F)
	HOT WATER (140°F)
	HOT WATER RECIRC. (115°F)
- · -	HOT WATER RECIRC. (140°F)
S —— GAS —— GAS ——	NATURAL GAS
S	NATURAL GAS (BELOW GRADE)
N	SANITARY WASTE
Γ	STORM SEWER (ABOVE GRADE)
г— ——	STORM SEWER (BELOW GRADE)
	VENT
Α	COMPRESS AIR
/	VACUUM
0	REVERSE OSMOSIS WATER
Α	MEDICAL AIR
2	NITROGEN

- VISIBLE.
- 23. PROVIDE SHOCK ABSORBERS ON ALL WATER SUPPLY WHERE REQUIRED. SHOCK ABSORBERS SHALL BE IN ACCORDANCE WITH PDI AND ASSE-1010 STANDARDS. SHOCK ABSORBERS SHALL BE AMTROL, HAMMERTROL MODEL 505 (SIZE 'B') OR J.R. SMITH HYDROTROL MODEL 510. PROVIDE FULL PORT LINE SIZE BALL VALVE BETWEEN TEE AND SHOCK ABSORBER. SEE NOTE BELOW ON ISOLATION VALVES.
- 24. PROVIDE CLEANOUTS AT THE BASE OF ALL RISERS.
- 25. ALL NEW HOT AND COLD WATER LINES SHALL BE SANITIZED PER 2015 MI PLUMBING CODE, SECTION 610.1 OR LOCAL WATER DEPARTMENT REQUIREMENTS. FLUSH AND TEST SYSTEM FOR LEAKS. PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE PROPER AND LEAK FREE OPERATION OF THE SYSTEM.
- SIZE REQUIREMENTS.
- BALL VALVES. APOLLO, 77FLF SERIES OR EQUAL.
- BELOW GRADE (NO JOINTS) ASTM B819. FITTINGS SHALL BE BRAZED WROUGHT COPPER CAPILLARY CONFORMING WITH ANSI B16.22 AND MSS SP-73.
- OR CAP AT MAIN WHEN DEMOLITION OF MEDICAL GAS IN HEAD WALL OCCURS.
- 32. PROVIDE FACTORY CLEANED AND CAPPED MATERIALS TO RECONNNECT HOT AND COLD WATER LINES. PURGE SYSTEM PER NOTE #21. PURGE SYSTEM AT FIRST FIXTURE BEFORE NEW CONNECTION. RECERTIFY SYSTEM PRIOR TO OPENING ISOLATION.
- 33. PROVIDE FACTORY CLEANED AND CAPPED MATERIALS TO RECONNECT OXYGEN, MEDICAL AIR, AND VACUUM LINES. PURGE SYSTEM AT FIRST OUTLET BEFORE NEW CONNECTION. RECERTIFY SYSTEM PRIOR TO OPENING ISOLATION.



- 1. CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS RELATING TO WORK REQUIRED.
- 2. CONTRACTOR SHALL PAY FOR ALL NECESSARY PERMITS, FEES, TAXES AND APPROVALS FOR CONSTRUCTION.
- 3. CONTRACTOR'S WORK SHALL COMPLY WITH ALL LOCAL, STATE, NATIONAL CODES AND ORDINANCES THAT APPLY.
- 4. CONTRACTOR SHALL PAY FOR GAS SERVICE INCLUDING: FEES, PERMITS, MATERIALS, LABOR AND COORDINATION OF GAS METER RELOCATION WITH GAS COMPANY.
- 5. COORDINATE WITH G.C. THE RESPONSIBILITY OF CUTTING AND PATCHING ALL WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING.
- 6. PROVIDE HANGERS AND SUPPORTS AS REQUIRED BY CODE.
- 7. FIRE/SMOKE STOP ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE REQUIRED TO MAINTAIN FIRE/SMOKE SEPARATION AND WALL INTEGRITY. USE U.L. LISTED MATERIAL.

REPLACE OR REPAIR ALL AREAS DAMAGED OR DISTURBED BY THE CONSTRUCTION.

- 8. FOR TIE-INS TO EXISTING SYSTEM, EXISTING MUST BE EQUAL TO OR LARGER THAN NEW.
- 9. CONTRACTOR SHALL REMOVE ALL SALVAGE MATERIALS AND DEBRIS FROM THE SITE AND
- 10. ALL EQUIPMENT, PIPING AND FIXTURES SHALL BE INSTALLED PER CODE AND LOCAL AUTHORITY HAVING JURISDICTION.
- 11. ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL ASTM A53/120. SCREWED PIPE AND FITTINGS FOR 2" PIPE AND SMALLER. WELDED PIPE AND FITTINGS FOR 2 1/2" PIPE AND LARGER. PIPING AT 5 PSI AND HIGHER SHALL BE WELDED WITHIN THE STRUCTURE. CONCEAL ALL PIPE IN FINISHED AREAS PER CODE.
- 12. PROVIDE INDIVIDUAL GAS SHUTOFF AND DIRT LEG AT EACH GAS FIRED PIECE OF EQUIPMENT.
- 13. DOMESTIC HOT AND COLD WATER PIPING SHALL BE COPPER TYPE 'L' ABOVE GRADE AND TYPE 'K' BELOW GRADE (NO JOINTS) ASTM B 75. USE LEAD FREE SOLDER.
- 14. INSULATE ABOVE GRADE DOMESTIC HOT AND COLD PIPING WITH 1" FIBERGLASS (APPROX. 3 1/2 POUND DENSITY) WITH VAPOR BARRIER. FITTINGS AND VALVES SHALL BE COVERED WITH FIBERGLASS INSERT AND PREMOLDED PVC COVER. BELOW GRADE USE 1" CLOSED CELL FLEXIBLE FOAM RUBBER (SEAL BUTT JOINTS) ON HOT WTR PIPING, AND COLOR CODED (BLUE) VINYL SLEEVE ON COLD WTR.
- 15. PROVIDE TRAPPED CONDENSATE AT EACH FURNACE COOLING COIL AND CONDENSING EXHAUST PIPE INSTALL PIPING TO NEAREST FLOOR DRAIN. USE COPPER PIPING TYPE 'M'.
- 16. SANITARY WASTE, VENT AND STORM PIPING SHALL BE SCHEDULE 40 PVC, ASTM D2665 BELOW GRADE, USE CAST IRON ASTM A74 NO HUB ABOVE GRADE.
- 17. SLOPE ALL SANITARY WASTE PIPING 1/4" PER FOOT WHERE POSSIBLE AND A MINIMUM OF 1/8" PER FOOT.
- 18. PROVIDE THE FOLLOWING: MINIMUM 18 GAUGE TUBULAR BRASS STRAINER ASSEMBLY, P-TRAPS, AND WALL ESCUTCHEONS (WALL AND SUPPLIES), QUARTER TURN, COMMERCIAL GRADE BALL ANGLE STOPS WITH SUPPLY TUBING AT EACH PLUMBING FIXTURE AS APPLICABLE. ALL PIECES TO BE CHROME PLATED OR STAINLESS STEEL.
- 19. CAULK EACH PLUMBING FIXTURE BETWEEN WALLS AND FLOORS WITH WHITE SILICONE RUBBER SEALANT.
- 20. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS.
- 21. PROVIDE CHROME PLATED CLEANOUT COVER ON ALL WALL CLEANOUTS.
- 22. PROVIDE POLISHED BRONZE CLEANOUT COVERS ON ALL FLOOR CLEANOUTS WHERE
- 26. PROVIDE DI-ELECTRIC FITTINGS WHERE ANY DISSIMILAR METALS ARE CONNECTED.
- 27. DISTRIBUTE HOT AND COLD WATER PIPING AS REQUIRED TO MEET MINIMUM CONNECTED
- 28. PROVIDE INDIVIDUAL SHUTOFF VALVE AT EACH INDIVIDUAL HUMIDIFIER TO PERMIT REPAIRING A SINGLE UNIT, WHILE MAINTAINING SERVICE TO REMAINING UNITS.
- 29. ISOLATION VALVES TO BE LEAD FREE, QUARTER TURN SOLID BRASS, 2 PIECE, FULL PORT,
- 30. MEDICAL GAS SYSTEMS PIPING SHALL BE COPPER TYPE 'L' ABOVE GRADE AND TYPE 'K'
- 31. COORDINATE WITH MEDICAL GAS CERTIFIER THE REQUIREMENT TO REMOVE EXISTING TEES



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Masjid Sunnah	
Renovation	

Description

12/22/20

2312 South Division, Grand Rapids, MI 49507

PLUMBING LEGEND & **SPECIFICATIONS**

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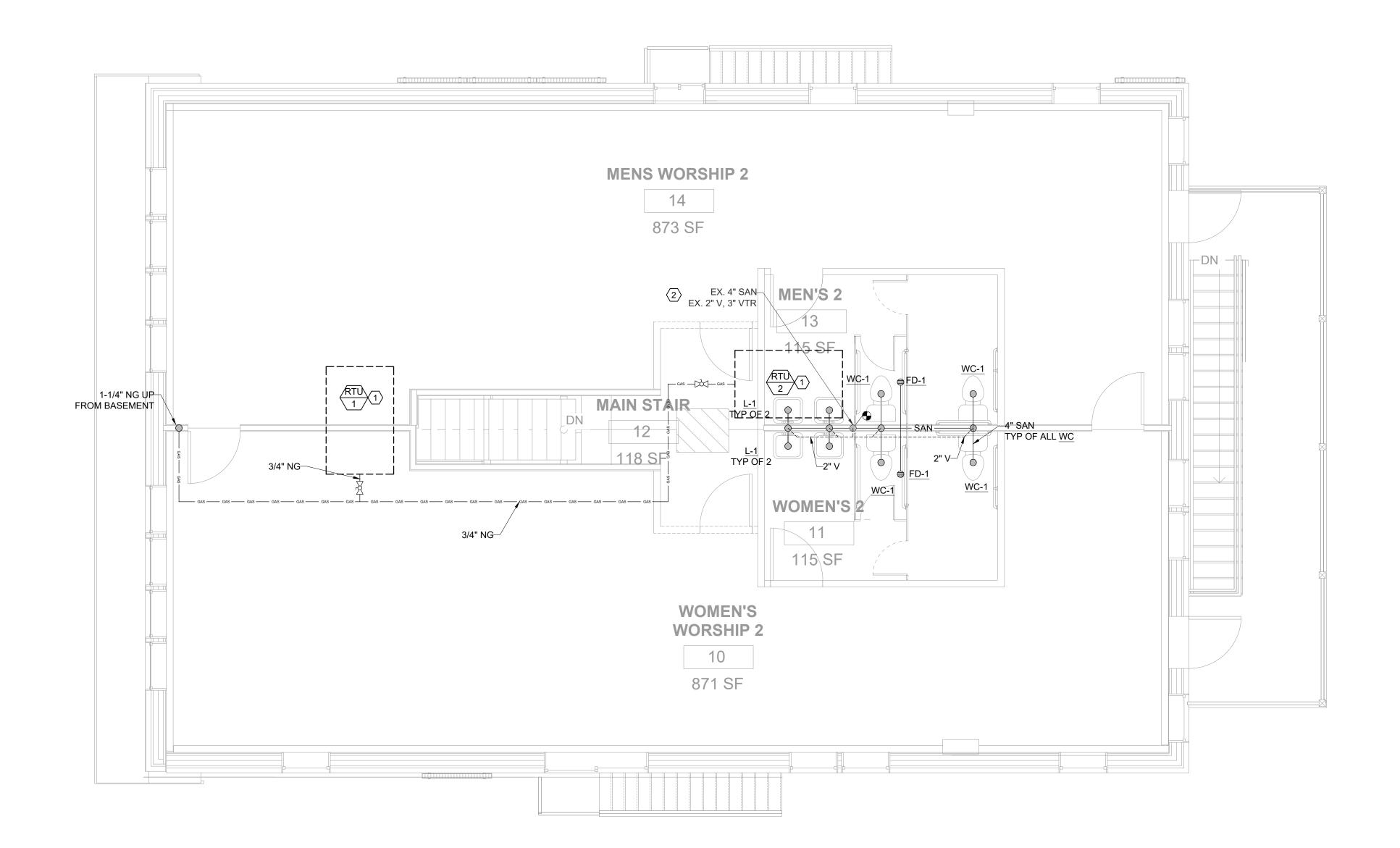
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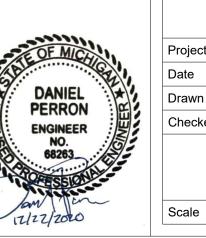
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n Date
12/22/2

Masjid Sunnah Renovation

2312 South Division, Grand Rapids, MI 49507

> PLUMBING SANITARY FLOOR PLAN

P101						
Checked by EDV						
Drawn by	AVD,DPP					
Date	22 December, 2020					
Project number	638					

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1/4" = 1'-0"

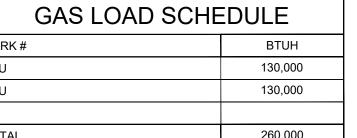
PLUMBING FIXTURE SCHEDULE								
MARK#	MARK# TYPE MFGR. MODEL# CW HW WASTE NOTES							
WC-1	WTR. CLOSET, FLR. MNT., FLSH. TNAK, ELONG.	KOHLER	K-3609	1/2"	٠	4"	SLOAN FLUSHMATE FLUSH ASSIST SYSTEM, HEAY DUTY PLASTIC, WHITE CLOSED FRONT SEAT, WITH COVER, INTEGRAL CHECK HINGE. COMMERCIAL GRADE ANGLE SUPPLY STOP AND RIGID SUPPLY, BOTH CHROME PLASTED BRASS.	
1 1	LAVATORY, WALL HUNG, 20X19 RECTANGULAR, WHITE	KOHLER	K-12643	1/2"	1/2"	1-1/2"	*DELTA FOUNDATIONS B510LF-PPU-ECO FAUCET, CHROME PLATED BRASS ACCESSORIES.	

*PROVIDE WITH FIXTURE

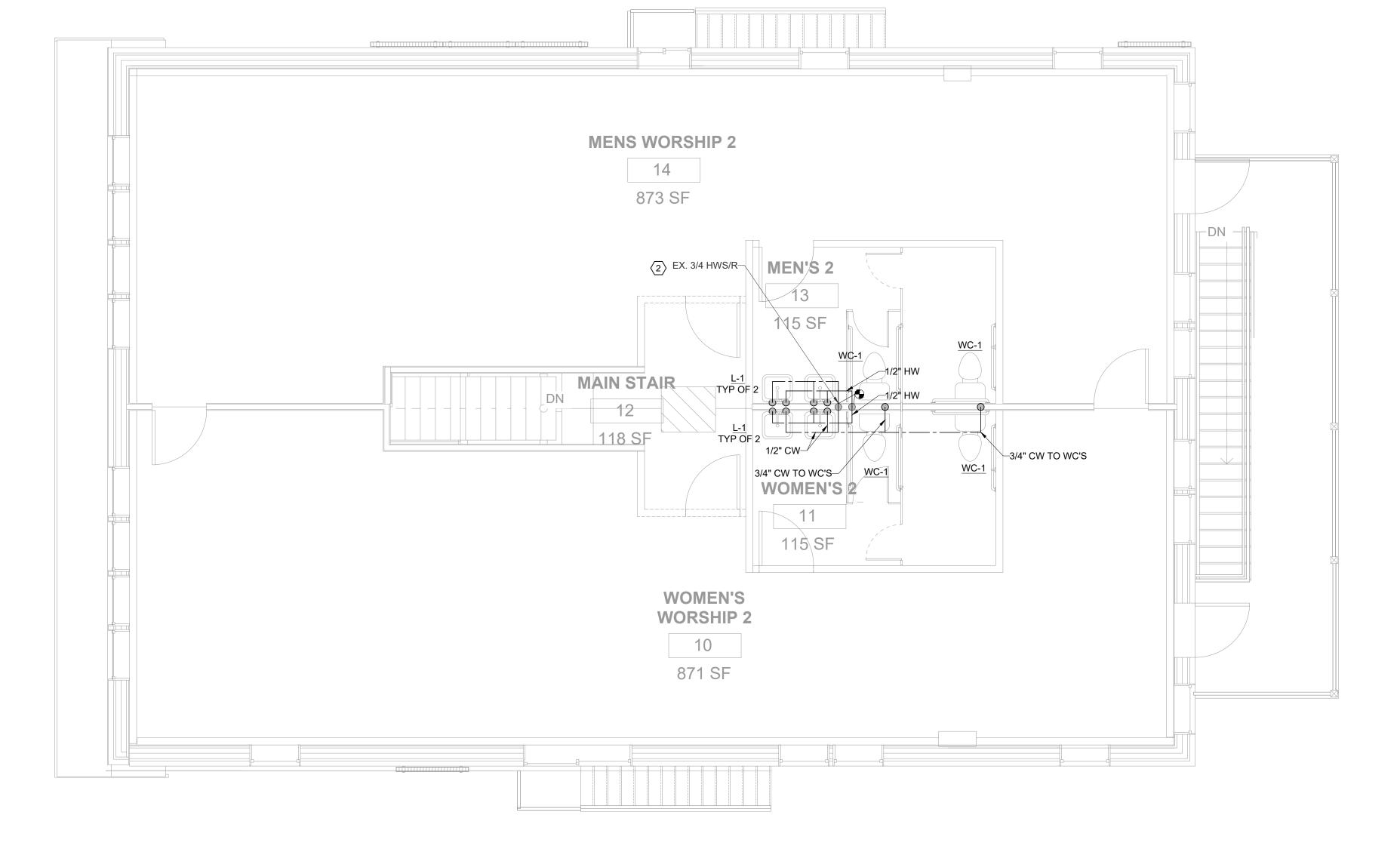
- ~ W.C., AND LAVATORY COLOR BY THE ARCHITECT.
- ~ PROVIDE CONCEALED ARM AND CHAIR CARRIERS FOR ALL WALL HUNG FIXTURES (JR SMITH, SERIES 0710-Z LAU. SUPPORT).
- ~ PROVIDE TRUBRO "LAVGARD" INSULATION ON LAVATORY TRAP & SUPPLY PIPING.
- ~ PROVIDE ALL LAVATORIES WITH A TEMPERED WATER CONTROL VALVE THAT MEETS ASSE 1070 STANDARDS. (CONBRACO, MODEL 34D-302-B1)
- ~ FIXTURE TYPES ENDING WITH ADA REQUIRE SPECIFIC MOUNTING HEIGHTS, REFER TO ARCHITECTURAL SHEETS FOR FINAL INSTALLATION DIMENSIONS.

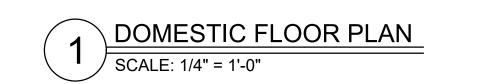
	PLUMBING EQUIPMENT SCHEDULE					
MARK	DESCRIPTION					
FD-1	FLOOR DRAIN - ASME A112.21.1, WADE, MODEL 1102 STD5, CAST IRON BODY, 2" OUTLET, 5" ADJUSTABLE NICKLE BRONZE GRATE, PROVIDE WITH TP BELOW					

GAS LOAD SCHEDULE						
MARK#	BTUH					
RTU	130,000					
RTU	130,000					
TOTAL	260,000					



TOTAL CONNECTED LOAD: 260 CFH OR MBH @ 1/4-1/2 PSI (7"-14" W.C.)







- 1. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL DRAWINGS FOR SCHEDULES..
- 2. CONTRACTOR TO FIELD VERIFY LOCATION OF TIE IN POINTS.



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No.	Description	Date
1	Permit	12/22/20

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PLUMBING DOMESTIC FLOOR PLAN

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ILOOKILAN			
Project number	638		
Date	22 December, 2020		
Drawn by	AVD,DPP		
Checked by	EDV		

P102

MECHANICAL SYMBOL LEGEND

DUCTS/DIFFUSERS			PIPING	ABBREVIATIONS		
\boxtimes	SUPPLY DIFFUSER		PIPING FLEXIBLE CONNECTION	AFF	ABOVE FINISHED FLOOR	
	LINEAR SLOT DIFFUSER		ECCENTRIC REDUCER / TRANSITION	AHU BFF	AIR HANDLING UNIT BELOW FINISHED FLOOR	
	WALL OR DUCT MOUNTED DECICTED / CDILLE	_	CONCENTRIC REPLICED / TRANSITION	BOD BOG	BOTTOM OF DUCT BOTTOM OF GRILLE	
T	WALL OR DUCT MOUNTED REGISTER / GRILLE	—D—	CONCENTRIC REDUCER / TRANSITION	BOP CA	BOTTOM OF PIPE COMPRESSED AIR	
	RETURN/TRANSFER AIR GRILLE		DIRECTION OF FLOW	CC	COOLING COIL	
	EXHAUST AIR GRILLE	 	PIPE UNION	CH CHR	CABINET UNIT HEATER CHILLED WATER RETURN	
	DUCT THROUGH FLOOR/CEILING		BALL VALVE	CHS CO	CHILLED WATER SUPPLY CLEAN OUT	
	DOCT THROUGH FLOOR/CEILING	—W—	DALL VALVE	COND CONV	CONDENSATE CONVECTOR	
Caraca	TURNING VANES	$-\!\!\bowtie\!\!-$	GATE VALVE	CTWR CTWS	COOLING TOWER WATER RETURI COOLING TOWER WATER SUPPLY	
→	AIRFLOW DIRECTION	— [—	BUTTERFLY VALVE	CU	CONDENSING UNIT DOMESTIC COLD WATER	
X	DUCT DROP VERTICAL		CHECK VALVE (ARROW INDICATES	EC EF	ELECTRICAL CONTRACTOR EXHAUST FAN	
	ROUND DUCT -	, † ₄	DIRECTION OF FLOW)	EG	EXHAUST AIR GRILLE	
	SLOPED CHANGE IN ELEVATION		OS&Y VALVE	EL ELNG	ELEVATION ELONGATED	
-[[-	RECTANGULAR DUCT - SLOPED CHANGE IN ELEVATION		GLOBE VALVE	EQ ER	EQUIPMENT EXHAUST AIR REGISTER	
			SELF CONTAINED PRESS. REDUCING VALVE	ERU EV	ENERGY RECOVERY UNIT PRESSURE INDEPENDENT EXHAU	
	DAMDEDO	———	CONTROL VALVE - ELECTRICAL ACTUATOR	EX	AIR VALVE EXISTING	
	DAMPERS		CONTROL VALVE - ELECTRICAL ACTUATOR	EXH	EXHAUST AIR FAN COIL UNIT	
	VOLUME CONTROL DAMPER	────	CONTROL VALVE - PNEUMATIC ACTUATOR	FC FD	FLOOR DRAIN	
M	MOTORIZED DAMPER ACTUATOR	─ ┡	PRESSURE REDUCING VALVE	FFA FFB	FROM FLOOR ABOVE FROM FLOOR BELOW	
			AUTOMATIC BALANCING VALVE	FH FLR	FILTER HOUSING FLOOR	
M	OPPOSED BLADE VOLUME CONTROL DAMPER			FO FP	FLAT OVAL FIRE PROTECTION	
- ◀	HORIZONTAL FIRE DAMPER IN DUCT		PRESSURE INDEPENDENT CONTROL VALVE	GC HC	GENERAL CONTRACTOR HEATING COIL	
-	VERTICAL FIRE DAMPER IN DUCT	-□	RELIEF / SAFETY VALVE	HP HPR	HEAT PUMP HEAT PUMP RETURN	
-•-	COMBINATION HORIZONTAL FIRE /	<u></u>	SOLENOID VALVE	HPS	HEAT PUMP SUPPLY	
	SMOKE DAMPER			HR HS	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY	
**	COMBINATION VERTICAL FIRE / SMOKE DAMPER	———	CALIBRATED MANUAL BALANCING VALVE	HW HWR	DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN	
•	SMOKE DAMPER	<u>—</u> ō—	BALL VALVE IN VERTICAL PIPE	IE L	INVERT ELEVATION LOUVER	
(SID)	SMOKE DETECTOR		GATE VALVE IN VERTICAL PIPE	LAV MAU	LAVATORY MAKE-UP AIR UNIT	
		<mark>አ</mark>	BUTTERFLY VALVE IN VERTICAL PIPE	MC	MECHANICAL CONTRACTOR	
⊕	DUCT DETECTOR	-	BUTTERFLY VALVE IN VERTICAL PIPE	MNT NG	MOUNT NATURAL GAS	
		—8—	BALANCE VALVE IN VERTICAL PIPE	OA P	OUTSIDE AIR PUMP	
	EQUIPMENT	———	COCK VALVE	PC RA	PLUMBING CONTRACTOR RETURN AIR	
<u> </u>	INLINE PUMP	W	RPZ (BALL VALVE)	RAD RCP	RADIATOR RADIANT CEILING PANEL	
			,	RD	ROOF DRAIN	
	VAV TERMINAL UNIT		RPZ (OS&Y VALVE)	RG RH	RETURN AIR GRILLE ROOF HOOD (INTAKE OR EXHAUS	
	PHOENIX CONTROL VALVE	p	THERMOMETER	RR RTU	RETURN AIR REGISTER ROOF TOP UNIT	
	FAN COIL TERMINAL UNIT	(PS)	PRESSURE SENSOR	SA SD	SUPPLY AIR SAN SANITARY SUPPLY AIR DIFFUSER	
				SG SR	SUPPLY AIR GRILLE SUPPLY AIR REGISTER	
	ELECTRIC WALL HEATER	(TS)	TEMPERATURE SENSOR	SS STM	STAINLESS STEEL STEAM	
	FIN TUBE (COVERED)	P	PRESSURE GAGE	STRM	STORM SEWER	
===	INFRARED HEATER	@+b\$d+	PRESSURE GAUGE & SHUT OFF	SV	PRESSURE INDEPENDENT SUPPL	
Ø	CONDENSING UNIT	(FS)	FLOW SWITCH	TFA TFB	TO FLOOR ABOVE TO FLOOR BELOW	
				TG TOD	TRANSFER AIR GRILLE TOP OF DUCT	
<u></u>	UNIT HEATER	PS	PRESSURE SWITCH	TOG TOP	TOP OF GRILLE TOP OF PIPE	
~~[]	GAS UNIT HEATER	(DP)	DIFFERENTIAL PRESSURE SENSOR	TYP UH	TYPICAL UNIT HEATER	
	EXHAUST FAN ABOVE ROOF PENETRATION		SUCTION DIFFUSER	UNO UV	UNLESS NOTED OTHERWISE UNIT VENTILATOR	
		SD B		V	VENT	
	ROOF HOOD (INTAKE)	Taks,	"Y" STRAINER W/BLOWDOWN	VBF VBG	VENT BELOW FLOOR VENT BELOW GRADE	
	ROOF HOOD (EXHAUST)	Т	STEAM TRAP	VCD VFD	VOLUME CONTROL DAMPER VARIABLE FREQUENCY DRIVE	
D S	WALL MOUNT THERMOSTAT / SENSOR		THRUST BLOCK	VT VTR	VAV TERMINAL UNIT VENT THROUGH ROOF	
	THERMOSTAT / SENSOR WITH	▼		WH WTR	WATER HEATER WATER	
	LOCKABLE COVER	×	ANCHOR	X- ZD	EXISTING ZONE DAMPER	
	MISCELLANEOUS		GUIDE	20	LONE DAMIN LIX	
	RISE					
	DROP					
-	UKUF		ND NOTES:			
-	TEE DROP		ALL SYMBOLS SHOWN ARE NECESSARILY D IN THIS PROJECT.			
_	END CAP		BOLS THAT HAVE A DARK LINE WEIGHT			
	END CAP	2. STIVI	DOLS THAT HAVE A DARK LINE WEIGHT			

3. EXISTING FIRE/SMOKE DAMPERS ARE SHOWN

WITH THE SAME SYMBOL EXCEPT THAT THEY

ARE ONLY AN OUTLINE (NOT FILLED).

DEMOLITION.

CONNECT TO EXISTING

EXISTING EQUIPMENT TAG

EQUIPMENT TAG

MECHANICAL SPECIFICATIONS

GENERAL

- CONTRACTOR IS RESPONSIBLE TO VISIT THE JOBSITE TO VERIFY EXISTING CONDITIONS THAT MAY AFFECT THEIR BID.
- 2. CONTRACTOR IS RESPONSIBLE TO REVIEW AND CONFIRM EXISTING CONDITIONS AND COORDINATE WITH OTHER TRADES PRIOR TO INSTALLING OR FABRICATING NEW.
- 3. CONTRACTOR IS REQUIRED TO PROVIDE EQUIPMENT SUBMITTALS AND MATERIAL INFORMATION TO THE ENGINEER FOR REVIEW.
- 4. CONTRACTOR SHALL PAY FOR NECESSARY PERMITS, FEES, TAXES, AND APPROVALS FOR CONSTRUCTION.
- 5. CONTRACTOR SHALL REMOVE SALVAGE MATERIALS AND DEBRIS FROM THE SITE AND REPLACE OR REPAIR AREAS DAMAGED OR DISTURBED BY THE CONSTRUCTION.
- 6. CONTRACTOR SHALL COORDINATE UTILITIES AND SCHEDULE WORK TO AVOID DISRUPTION TO OWNER.
- 7. INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND MAINTAIN RECOMMENDED CLEARANCES FOR SERVICE AND PROPER OPERATION OF EQUIPMENT.
- 8. FOR TIE-INS TO EXISTING SYSTEM, EXISTING MUST BE EQUAL TO OR LARGER THAN NEW.
- COORDINATE THERMOSTAT AND SENSOR LOCATIONS WITH ELECTRICAL AND TEMPERATURE CONTROL CONTRACTOR. COORDINATE INSTALLATION OF WALL BOXES AND CONDUIT.
- 10. COORDINATE DUCT-MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR AND FIRE ALARM CONTRACTOR. SMOKE DETECTORS ARE PROVIDED BY E.C., INSTALLED INTO DUCT BY M.C., AND WIRED BY E.C., T.C.C., AND FIRE ALARM CONTRACTOR.
- 11. COORDINATE GENERAL WALL, FLOOR AND CEILING PATCHING RESPONSIBILITY WITH GENERAL CONTRACTOR. WHERE REQUIRED, PATCHING SHALL BE PROVIDED TO MATCH EXISTING CONSTRUCTION.
- 12. PROVIDE AND INSTALL HANGERS AND SUPPORTS WHERE REQUIRED.
- 13. FIRE STOP WALL, FLOOR AND CEILING PENETRATIONS WHERE REQUIRED TO MAINTAIN FIRE SEPARATION INTEGRITY. USE U.L. LISTED MATERIAL
- 14. PROVIDE 10 GAUGE SLEEVES AT MECHANICAL CHASES WHERE REQUIRED. INSTALL PER SMACNA STANDARDS.
- 15. M.C. IS RESPONSIBLE TO PROVIDE OWNER WITH COMPLETE SET OF INSTALLATION, OPERATION, AND MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT.
- 16. M.C. IS RESPONSIBLE TO ENSURE THAT THE HVAC SYSTEMS ARE FULLY OPERATIONAL AND THAT THE OWNER RECEIVES ADEQUATE TRAINING AND INSTRUCTION IN THE OPERATION AND MAINTENANCE OF THE SYSTEMS AND EQUIPMENT.
- 17. EQUIPMENT EQUALS OR SUBSTITUTIONS MUST BE SUBMITTED A MINIMUM OF 10 DAYS PRIOR TO BID DATE FOR REVIEW.
- 18. COORDINATE LOCATION OF DUCTWORK, PIPING, AND EQUIPMENT WITH ELECTRICAL SO THAT VERTICAL AND HORIZONTAL CLEARANCES FOR ELECTRICAL EQUIPMENT ARE MAINTAINED. PIPING, DUCTWORK AND MECHANICAL EQUIPMENT MAY NOT PASS OVER TOP OF ELECTRICAL PANELS AND EQUIPMENT.
- 19. PROVIDE TRAPPED CONDENSATE AT EACH COOLING COIL AND CONDENSING TYPE EQUIPMENT ACCORDING TO MANUFACTURER'S INSTRUCTIONS. INSTALL PIPING TO NEAREST FLOOR DRAIN USING SCHEDULE 40 PVC OR COPPER PIPING TYPE 'M'.
- 20. PROVIDE WATER LEVEL DETECTION DEVICE CONFORMING TO UL-508 IN COOLING EQUIPMENT CONDENSATE DRAIN PAN TO DETECT OVERFLOW CONDITION FROM DRAIN BLOCKAGE. INSTALL DETECTOR ABOVE PRIMARY DRAIN LINE CONNECTION AND BELOW OVERFLOW RIM OF DRAIN PAN AND WIRE TO SHUT DOWN UNIT. REFER TO MMC FOR REQUIREMENTS.
- 21. PROVIDE SECONDARY DRAIN PAN UNDERNEATH COOLING EQUIPMENT THAT IS LOCATED ABOVE CEILINGS. SIZE AND CONSTRUCT PAN ACCORDING TO MICHIGAN MECHANICAL CODE AND INSTALL PIPING SEPARATE FROM PRIMARY CONDENSATE DRAIN PIPING.
- 22. PROVIDE PIPE, DUCT, VALVE, AND EQUIPMENT LABELS AND DIRECTIONAL ARROWS. COORDINATE REQUIREMENTS WITH MMC, PROJECT SPECIFICATIONS, AND OWNER'S STANDARDS.

DUCTWORK AND AIR DISTRIBUTION

- DUCTWORK SHALL BE FABRICATED AND INSTALLED PER SMACNA STANDARDS AND THE MICHIGAN MECHANICAL CODE.
- 2. DUCT DIMENSIONS SHOWN ARE INSIDE FREE AREA. DUCTS INSTALLED DIFFERENT THAN SIZES SHOWN SHALL HAVE THE SAME OR GREATER EQUIVALENT DUCT SIZE.
- 3. PROVIDE DUCT TRANSITIONS AND FITTINGS AS REQUIRED.
- 4. SEAL JOINTS, LONGITUDINAL, AND TRANSVERSE SEAMS WITH HARDCAST IRON GRIP 601, SURE GRIP 404, OR OTHER APPROVED SEALANT. SUPPLY, RETURN, AND EXHAUST AIR DUCTWORK SHALL BE SEALED TO SEAL CLASS 'A'.
- PROVIDE VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS.
- ROUND DUCTWORK AND RADIUS RECTANGULAR ELBOWS MUST HAVE MINIMUM CENTERLINE RADIUS OF 1.5 TIMES THE DUCT DIAMETER.
- 7. PROVIDE SINGLE THICKNESS TURNING VANES IN ALL RECTANGULAR 90 DEGREE ELBOWS. MAX. LENGTH FOR A SINGLE SECTION OF VANES IS 24" LONG.
- COORDINATE DUCTWORK LOCATIONS WITH EXISTING STRUCTURE, OTHER DUCTWORK, PLUMBING, LIGHT FIXTURES, CONDUIT, SPRINKLERS, AND EQUIPMENT.
- 9. PROVIDE UL-LISTED DUCT FIRE BLANKET OR OTHER APPROVED CLEARANCE REDUCING METHOD WHEN CLEARANCES TO COMBUSTIBLES FOR KITCHEN EXHAUST HOOD DUCTWORK OR BOILER VENTING CANNOT BE MAINTAINED.
- LOUVERS WITH BOTH ARCHITECT AND OWNER PRIOR TO ORDERING EQUIPMENT.

11. LINE FIRST 15 FEET OF SUPPLY AND RETURN DUCTWORK WITH

10. COORDINATE COLOR OF GRILLES, REGISTERS, DIFFUSERS, AND

- STANDARD 1" THICK ACOUSTICAL DUCT LINER. 12. ISOLATE AIR MOVING EQUIPMENT WITH SPRING OR NEOPRENE
- HANGING VIBRATION ISOLATORS AND WITH FLEXIBLE CANVAS CONNECTIONS TO DUCTWORK.

13. MAXIMUM 5'-0" FLEX DUCT TO DIFFUSERS.

- 14. DIFFUSERS AND GRILLES THAT ARE NOT LAY-IN STYLE BUT INSTALLED IN A LAY-IN CEILING GRID SHALL BE MOUNTED TO RIGID SHEET METAL DUCTWORK NOT TO LAY-IN CEILING TILES.
- 15. COORDINATE REGISTER, GRILLE, AND DIFFUSER LOCATIONS WITH THE REFLECTED CEILING PLAN AND CENTER GRILLES AND DIFFUSERS IN CEILING TILES.
- 16. BRANCH DUCTS TO DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK SIZE UNLESS OTHERWISE INDICATED. PROVIDE TRANSITIONS AS REQUIRED.
- 17. TEST AND BALANCE AIR DISTRIBUTION SYSTEM WITHIN 10% OF CFM INDICATED ON DRAWINGS. PROVIDE CERTIFIED REPORT BY INDEPENDENT, CERTIFIED TEST AND BALANCE CONTRACTOR.
- 18. FIRE DAMPERS SHALL BE UL CLASSIFIED 1-1/2 HOUR STYLE 'B' DYNAMIC FIRE DAMPERS WITH 165 DEG. FUSIBLE LINK. DAMPERS SHALL BE CURTAIN TYPE WITH BLADES OUT OF AIRSTREAM. PROVIDE SLEEVES, MOUNTING ANGLES, AND HINGED ACCESS DOORS. PROVIDE 10 GAGE SLEEVES WHEN FIRE DAMPER IS OUT OF THE PARTITION. SIZE TO MATCH DUCT OR GRILLE AT DAMPER LOCATION. PROVIDE DUCT ACCESS DOORS AT EACH DAMPER.
- 19. SMOKE DAMPERS SHALL BE UL CLASSIFIED WITH AIRFOIL BLADES AND 120/1/60 ACTUATOR. PROVIDE SLEEVES, MOUNTING ANGLES, TRANSITIONS, AND HINGED ACCESS DOORS. SIZE TO MATCH DUCT OR AS REQUIRED FOR MAXIMUM 1200 FPM THROUGH DAMPER. COORDINATE LOCATIONS, SMOKE DETECTOR, WIRING, AND CONTROLS WITH ELECTRICAL. TEMPERATURE CONTROL CONTRACTOR, AND FIRE ALARM CONTRACTOR, PROVIDE DUCT ACCESS DOORS AT EACH DAMPER.

FUEL BURNING APPLIANCES AND GAS PIPING

- FUEL BURNING APPLIANCES AND GAS PIPING SHALL BE CONSTRUCTED, INSTALLED, AND OPERATED IN ACCORDANCE WITH THE INTERNATIONAL FUEL GAS CODE.
- GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL. SCREWED PIPE AND FITTINGS FOR 2" PIPE AND SMALLER. WELDED PIPE AND FITTINGS FOR 2-1/2" PIPE AND LARGER AND FOR GAS PIPING WITHIN BUILDING THAT IS 5 PSI OR GREATER.
- PROVIDE INDIVIDUAL GAS SHUTOFF VALVE AND DIRT LEG AT EACH GAS FIRED PIECE OF EQUIPMENT.
- 4. PROVIDE TYPE 'B' VENTS FOR GAS FIRED APPLIANCES AS RECOMMENDED BY EQUIPMENT MANUFACTURER. SIZE AND TERMINATE PIPING ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND PROVIDE RAIN CAPS AND FLASHING WHERE REQUIRED.
- PROVIDE PVC COMBUSTION AIR INTAKES AND VENT PIPING FOR GAS FIRED APPLIANCES AS RECOMMENDED BY EQUIPMENT MANUFACTURER. SIZE AND TERMINATE PIPING ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND PROVIDE FLASHING, SLEEVES, AND SEALS AS REQUIRED FOR ROOF AND WALL PENETRATIONS.
- PROVIDE CONCENTRIC VENT TERMINATION KITS FROM APPLIANCE MANUFACTURER. SIZE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.

TESTING, ADJUSTING, AND BALANCING

- 1. PROVIDE CERTIFIED REPORTS BY AABC OR NEBB CERTIFIED INDEPENDENT TEST AND BALANCE CONTRACTOR.
- 2. BALANCE AIRFLOWS TO WITHIN 10% OF RATES INDICATED ON
- 3. BALANCE HYDRONIC SYSTEMS TO WITHIN 5% OF RATES INDICATED ON DRAWINGS.
- 4. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS", NEBB'S "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS", OR SMACNA'S "HVAC SYSTEMS - TESTING, ADJUSTING, AND BALANCING".
- 5. COORDINATE WORK WITH BAS CONTRACTOR.



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No.	Description	Date
1	Permit	12/22/20
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Masjid Sunnah Renovation

2312 South Division, Grand Rapids, MI 49507

MECHANICAL LEGEND & **SPECIFICATIONS**

Project number 22 December, 2020 AVD,DPP Drawn by EDV Checked by

M100

1/4" = 1'-0"

DANIEL PERRON **ENGINEER**

Scale

GENERAL MECHANICAL NOTES:

- A. DUCT DIMENSIONS SHOWN ARE INSIDE FREE AREA. DUCTS INSTALLED DIFFERENT THAN SIZES SHOWN SHALL HAVE THE SAME OR GREATER EQUIVALENT DUCT SIZE.
 - B. PROVIDE SUPPLY DIFFUSER AND DUCTWORK AS SHOWN AND SCHEDULED. BALANCE DIFFUSERS TO AIRFLOW INDICATED.
- C. PROVIDE NEW DUCTWORK AS SHOWN. INSTALL DUCTWORK AS HIGH AS POSSIBLE AND COORDINATE HEIGHTS AND LOCATION WITH OTHER TRADES AS REQUIRED FOR COORDINATION OF LIGHTING AND OTHER EQUIPMENT.

DFD Architecture, LLC dfdarchitecture@gmail.com PO Box 182, Spring Lake, MI 49456

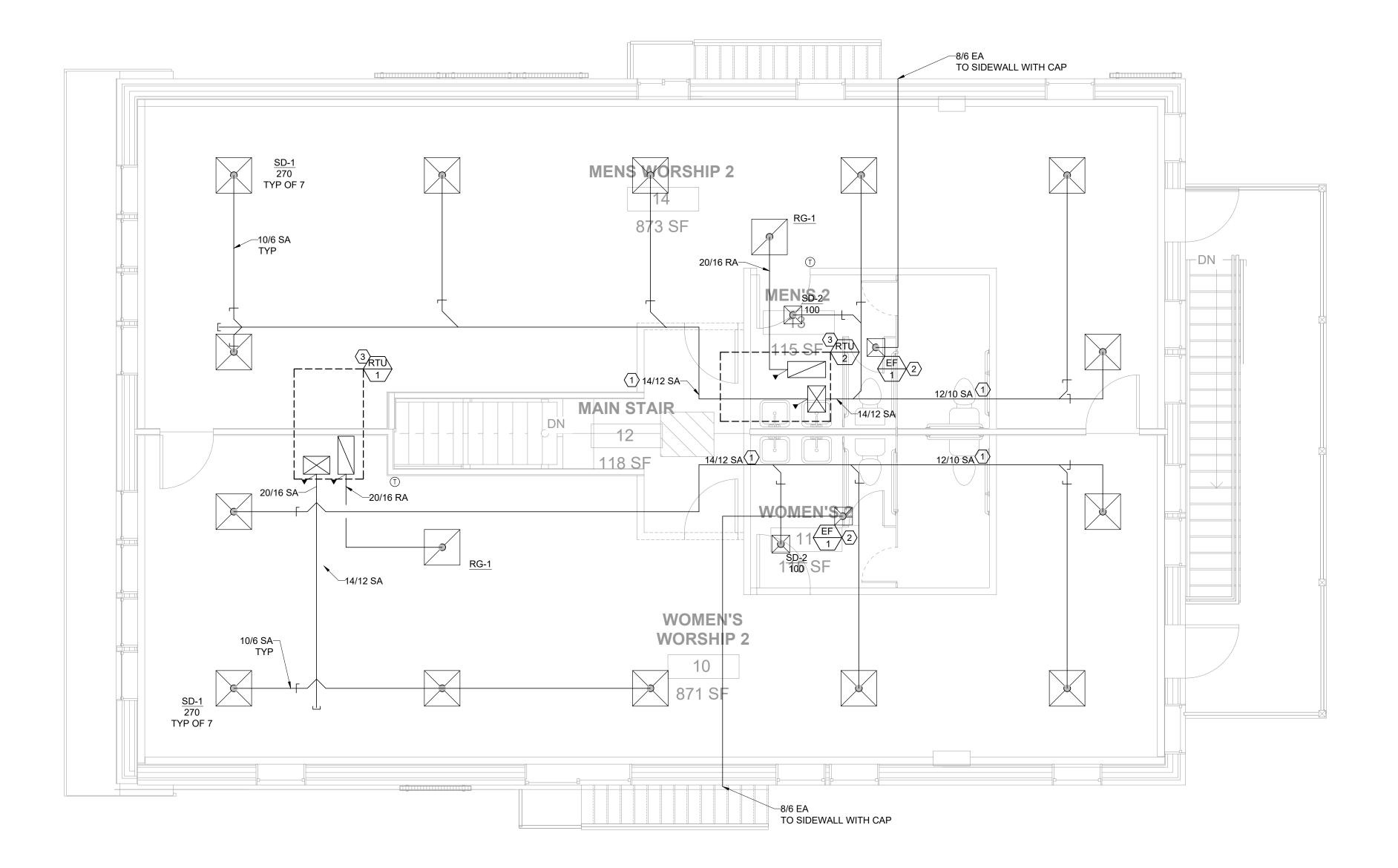
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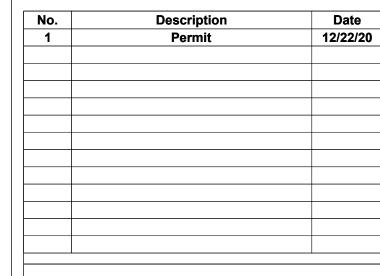
MECHANICAL KEYED NOTES: (#)

- ROUTE DUCTWORK INTO BULKHEAD. PROVIDE TRANSITIONS AS NEEDED.
- 2. PROVIDE CEILING MOUNTED EXHAUST FAN AND RADIATION DAMPER AS SHOWN AND SCHEDULED. INSTALL PER MANUFACTURERS RECOMMENDATIONS. ROUTE EXHASUT TO EXTERIOR AND MAINTAIN 10'-0" FROM ANY OUTDOOR AIR INTAKES AND 3'-0" FROM ANY OPERABLE DOORS AND WINDOWS. PROVIDE WITH BACKDRAFT DAMPER.
- 3. PROVIDE RTU AS SHOWN AND SCHEDULED WITH FIRE DAMPERS FOR ROOF PENETRATIONS. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND MAINTAIN 10'-0" CLEARANCE TO THE EDGES OF BUILDINGS.



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Masjid Sunnah Renovation

2312 South Division, Grand Rapids, MI 49507

> MECHANICAL FLOOR PLAN

E OF MICA	Project
	Date
DANIEL DANIEL PERRON	Drawn
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12/22/2010	Scale

FLOOR	PLAN
Project number	638
Date	22 December, 2020
Drawn by	AVD,DPF
Checked by	EDV

M101

										RO	OFTOP	UNI	T SCHE	DULE													
	N	NOMINAL					,OUTSIDE			DX COOLING COIL				GAS HEATING			SUPPLY FAN					ELECTRICAL					
TAG	MODEL	CAP.	STAGES	REFR.	EFF. (SEER)	AIRFLOW (CFM)	AIR	OA %	EA	T (°F)	LAT (°	F)	TOTAL	SENS.	EAT	LAT	INPUT	OUTPUT	S.P. (IN	I. W.C.)	RPM	мот	OR	MCV	MOCB	V-PH	NOTES
		(TONS)			(==::,	(0)	(CFM)		DB	WB	DB	WB		(MBH)	(°F)	(°F)	(MBH)	(MBH)	EXT.	TOTAL	I XI IVI	BHP	HP	WOA	WOOL	V-1 11	
																											1
RTU-1	48FCFA06A2A3-0A3C0	5	1	R134-A	14	2000	450	23%	78.9	66.2	58.3	56.5	59.8	43.2	54.3	104.8	130	106.0	0.5	0.62	2152	1.04	-	41	60	230-1	1,2
RTU-2	48FCFA06A2A3-0A3C0	5	1	R134-A	14	2000	450	23%	78.9	66.2	58.3	56.5	59.8	43.2	54.3	104.8	130	106.0	0.5	0.62	2152	1.04	-	41	60	230-1	1,2

~ BASED ON: CARRIER

NOTES:

1. PROVIDE WITH NON-FUSED DICONNECT SWITCH, UNIT POWERED 115V GFI CONVENIENCE OUTLET, 0-100% ECONOMIZER WITH COMPARATIVE ENTHALPY CONTROL, AND SPACE SENSOR WITH SETPOINT ADJUSTMENT.

RUBBER GASKET

-FINISHED ROOF

-- DUCT MOUNTED SMOKE DETECTOR

—LINED RA DUCT

-INSULATED SA DUCT

FACTORY INS. ROOF CURB, 14" HIGH

2. PROVIDE WITH CRRFCURBB001A01 14" CURB.

	REGISTER, GRILLE, & DIFFUSER SCHEDULE											
TAG	FACE SIZE	NECK SIZE	TYPE	AIR PATTERN	LOCATION & MOUNTING	MATERIAL	FINISH	MODEL	NOTES			
SD-1	24"X24"	8" DIA	SUPPLY	4-WAY	CEILIN; LAY-IN	ALUMINUM	WHITE	TMS-AA	1,2,3			
SD-2	12"X12"	6" DIA	SUPPLY	4-WAY	CEILIN; LAY-IN	ALUMINUM	WHITE	TMS-AA	1,2,3			
RG-1	24"X24"	22"X22"	RETURN	-	CEILIN; LAY-IN	ALUMINUM	WHITE	50F	2,3,4,			

	EXHAUST FAN SCHEDULE												
TAG	AREA SERVED	MODEL	MODEL OF FAN CONTROL		SONES	ELECTRICAL			NOTES				
TAG	AREA SERVED	MODEL CFM SP		51	FRPM	DRIVE	ARRANGEMENT	SONES	FLA	HP	V-PH	NOTES	
EF-1	13 - MENS 2	SP-A190	178	0.20	1400	DIRECT	CEILING	1.5	0.45	0.03	115-1	1	
EF-2	11- WOMENS 2	SP-A190	178	0.20	1400	DIRECT	CEILING	1.5	0.45	0.03	115-1	1	

~ BASED ON: GREENHECK

NOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR TO INTERLOCK FAN OPERATION WITH LIGHTS.

~ BASED ON: TITUS

FLASH INTO ROOF PER— MANUFACTURERS INSTRUCTIONS

BELLMOUTH FITTING— REQUIRED FOR ALL ROUND TAKE—OFFS. TYPICAL FOR RETURN DUCT(S)

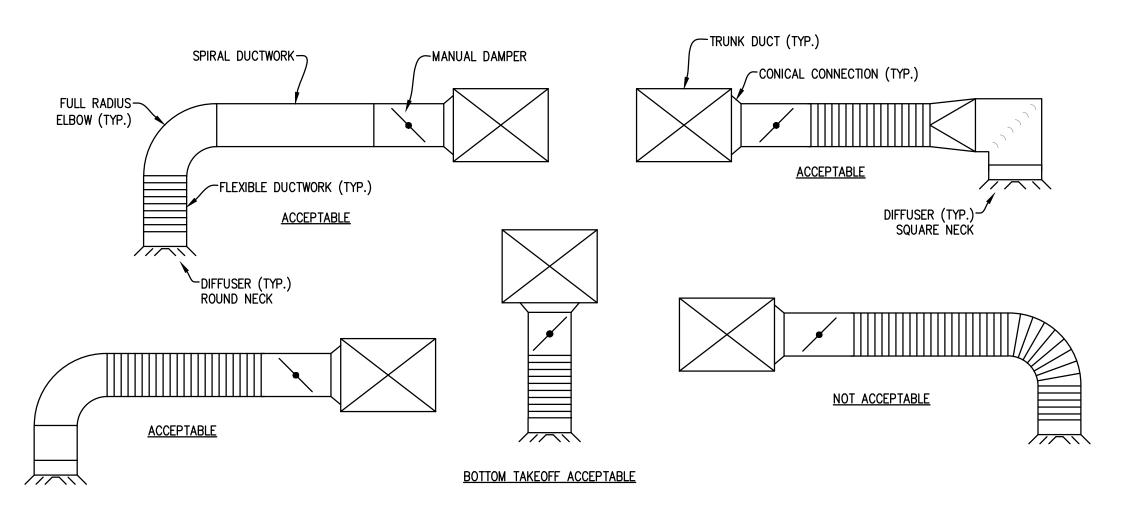
LINED SA DUCT

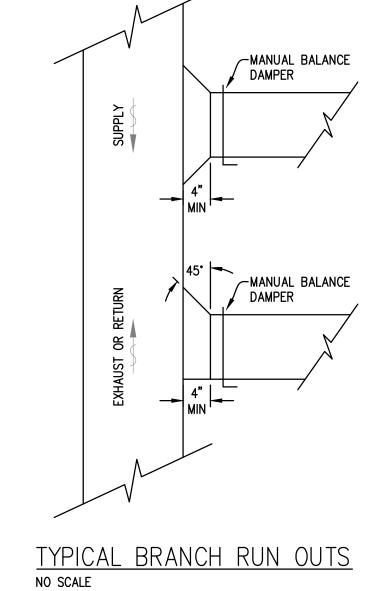
1. BRANCH DUCT TO DIFFUSERS TO BE SAME SIZE AND NECK UNLESS OTHERWISE NOTED.

ROOFTOP UNIT

TYPICAL ROOFTOP UNIT DETAIL NO SCALE

- 2. COORDINATE LOCATIONS WITH CEILING PLANS.
- 3. ARCHITECT TO DETERMINE FINAL FINISH COLOR.
- 4. PAINT SHEET METAL VISIBLE TOUGH GRILLE "MATTE BLACK."





CEILING DIFFUSER CONNECTION DETAIL

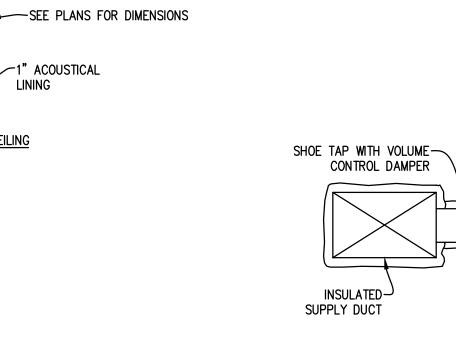
RETURN AIR

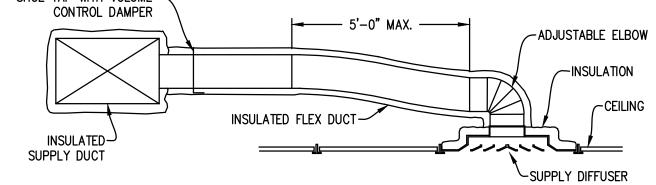
RETURN AIR GRILLE

NO SCALE

NOTE:
1. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH.

-INTERIOR WALL

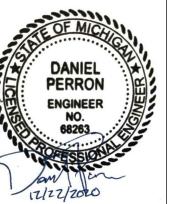




TYPICAL ACOUSTICAL RETURN DETAIL
NO SCALE

TYPICAL ROUND DUCTWORK TO DIFFUSER NO SCALE

NOTE:
1. SEE PLAN DRAWING FOR ALL DUCT SIZES



Scale

渁	~
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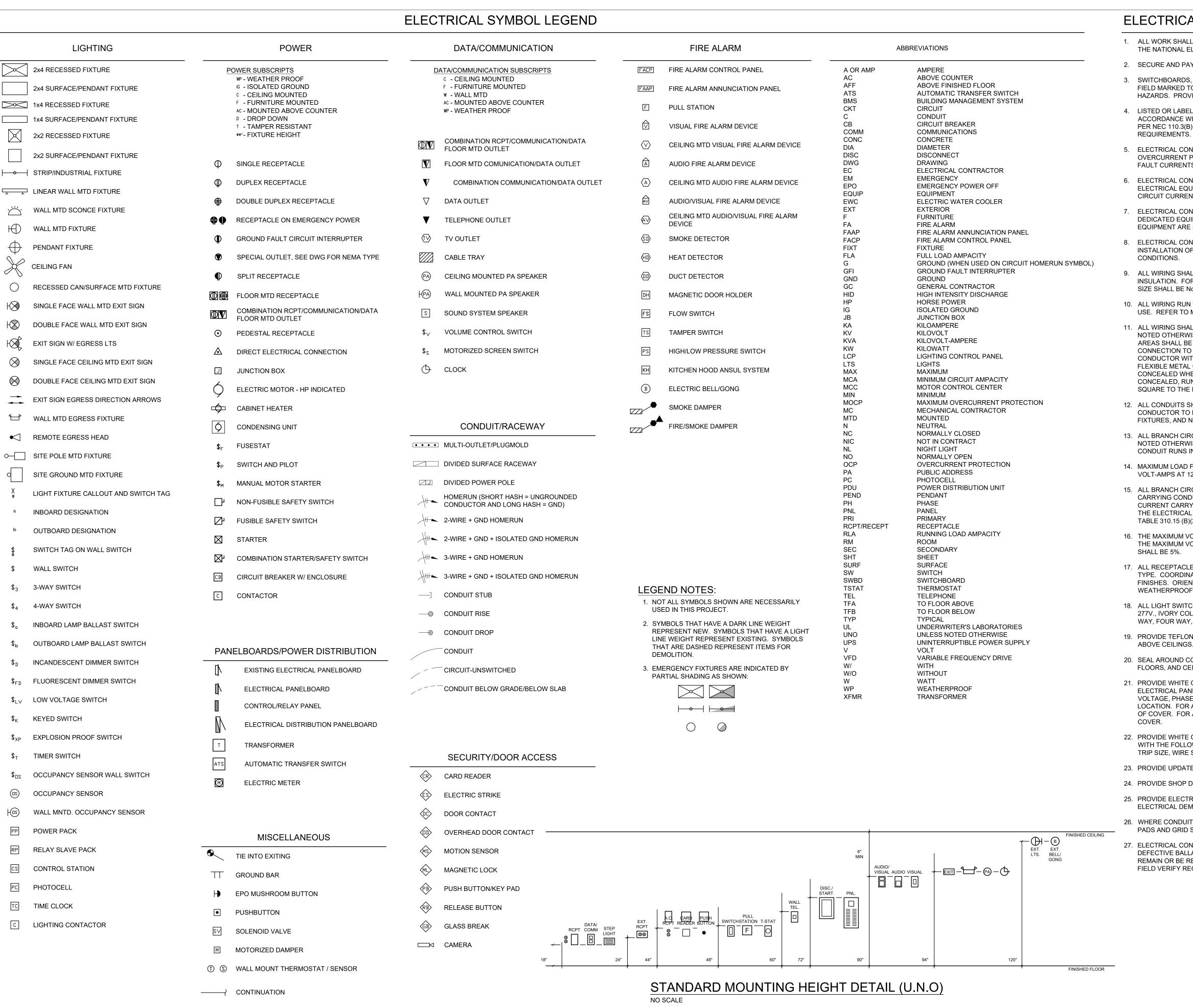
> MECHANICAL SCHEDULES AND DETAILS

Project number	638
Date	22 December, 2020
Drawn by	AVD,DPP
Checked by	EDV

M501

1/4" = 1'-0"

22 December, 2020



ELECTRICAL GENERAL NOTES:

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL AUTHORITIES HAVING JURISDICTION.
- 2. SECURE AND PAY FOR ALL PERMITS AND FEES.
- 3. SWITCHBOARDS, PANELBOARDS, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ARC FLASH HAZARDS. PROVIDE APPROPRIATE WARNING SIGNS PER NEC 110.16.
- 4. LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING PER NEC 110.3(B). ELECTRICAL CONTRACTOR SHALL VERIFY ALL INSTALLATION REQUIREMENTS.
- 5. ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY THAT ALL OVERCURRENT PROTECTIVE DEVICES INTERRUPT RATINGS EXCEED AVAILABLE FAULT CURRENTS PER NEC 110.9.
- 6. ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY THAT ALL ELECTRICAL EQUIPMENT SHORT CIRCUIT RATINGS EXCEED AVAILABLE SHORT CIRCUIT CURRENT.
- 7. ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY THAT WORKING AND DEDICATED EQUIPMENT SPACE REQUIREMENTS FOR ALL ELECTRICAL **EQUIPMENT ARE MET PER NEC 110.26.**
- 8. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR INSTALLATION OF ALL EQUIPMENT. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
- 9. ALL WIRING SHALL BE COPPER No. 12 AWG MINIMUM SIZE, TYPE THHN/THWN INSULATION. FOR ALL BRANCH CIRCUITS OVER 100 FEET LONG, CONDUCTOR SIZE SHALL BE No. 10 AWG MINIMUM SIZE.
- 10. ALL WIRING RUN WITHIN RETURN AIR PLENUMS SHALL BE U.L. LISTED FOR SUCH USE. REFER TO MECHANICAL DWGS.
- 11. ALL WIRING SHALL BE INSTALLED IN A METALLIC CONDUIT SYSTEM UNLESS NOTED OTHERWISE ON THE DRAWING. ALL CONDUIT USED IN WET OR DAMP AREAS SHALL BE WATER TIGHT. PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTION TO ALL MOTORS. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR WITH ALL FLEXIBLE METAL CONDUIT. MAXIMUM LENGTH OF FLEXIBLE METAL CONDUIT ALLOWED IS 2 FT. RUN ALL NEW CONDUIT CONCEALED WHERE POSSIBLE. WHERE EXISTING DOES NOT PERMIT CONCEALED, RUN EXPOSED. ALL CONDUIT RUNS EXPOSED SHALL BE RUN SQUARE TO THE BUILDING AND PAINTED TO MATCH SURFACE MOUNTED ON.
- 12. ALL CONDUITS SHALL CONTAIN A GREEN COLORED EQUIPMENT GROUNDING CONDUCTOR TO PROVIDE ELECTRICAL CONTINUITY TO ALL BOXES, DEVICES, FIXTURES, AND NON-CURRENT-CARRYING METAL PARTS OF EQUIPMENT.
- 13. ALL BRANCH CIRCUITS SHALL BE 20A, 1P, C.B., (2)#12, #12GND, 3/4"C UNLESS NOTED OTHERWISE. 1/2"C IS PERMITTED FOR SWITCH LEGS AND VERTICAL CONDUIT RUNS IN MASONRY WALLS TO A SINGLE DEVICE.
- 14. MAXIMUM LOAD FOR A 20 AMP BRANCH CIRCUIT SHALL BE 15 AMPS OR 1800 VOLT-AMPS AT 120 VAC.
- 15. ALL BRANCH CIRCUITS ARE ASSUMED TO HAVE THREE OR LESS CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. WHERE THE NUMBER OF CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ELECTRICAL CONTRACTOR SHALL APPLY ADJUSTMENT FACTORS PER NEC TABLE 310.15 (B)(2)(a).
- 16. THE MAXIMUM VOLTAGE DROP ALLOWED FOR BRANCH CIRCUITS SHALL BE 3%. THE MAXIMUM VOLTAGE DROP FOR FEEDERS AND BRANCH CIRCUITS COMBINED SHALL BE 5%.
- 17. ALL RECEPTACLES SHALL BE 20AMP., 125V., SPECIFICATION GRADE, GROUNDING TYPE. COORDINATE WITH ARCHITECT FOR RECEPTACLE AND COVER PLATE FINISHES. ORIENT RECEPTACLE SO GROUNDING PIN IS ON TOP. PROVIDE WEATHERPROOF AND GFI RECEPTACLES WHERE SHOWN.
- 18. ALL LIGHT SWITCHES SHALL BE SILENT TYPE, SPECIFICATION GRADE, 20AMP. 277V., IVORY COLOR WITH STAINLESS STEEL COVER PLATES. PROVIDE THREE WAY, FOUR WAY, AND DIMMER SWITCHES WHERE SHOWN.
- 19. PROVIDE TEFLON BUSHINGS ON ALL CONDUIT STUBS THROUGH WALLS AND
- 20. SEAL AROUND CONDUIT/SLEEVE PENETRATIONS THRU FIRE RATED WALLS, FLOORS, AND CEILINGS WITH U.L. LISTED FIRE RESISTANT SEALANT.
- 21. PROVIDE WHITE ON BLACK LAMINATED PLASTIC LABEL PLATES FOR ALL ELECTRICAL PANELS WITH THE FOLLOWING INFORMATION: PANEL DESIGNATION. VOLTAGE, PHASE, WIRE, AMPERAGE, FEEDER SIZE (BREAKER AND WIRE), FEEDER LOCATION. FOR ALL SURFACE MOUNTED PANELS, LOCATE LABEL ON OUTSIDE OF COVER. FOR ALL FLUSH/RECESSED PANELS, LOCATE LABEL ON INSIDE OF
- 22. PROVIDE WHITE ON BLACK LAMINATED PLASTIC LABEL PLATES FOR ALL FEEDERS WITH THE FOLLOWING INFORMATION: FEEDER DESCRIPTION, BREAKER SIZE, TRIP SIZE, WIRE SIZE.
- 23. PROVIDE UPDATED TYPED PANEL INDEXES ON ALL ELECTRICAL PANELS.
- 24. PROVIDE SHOP DRAWINGS TO ARCHITECT FOR APPROVAL
- 25. PROVIDE ELECTRICAL DEMOLITION AS REQUIRED. FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION.
- 26. WHERE CONDUIT RUNS ARE ABOVE EXISTING SUSPENDED CEILINGS, CEILING PADS AND GRID SHALL BE LEFT IN LIKE NEW CONDITION.
- 27. ELECTRICAL CONTRACTOR SHALL REPLACE ALL EXISTING BURNT OUT LAMPS, DEFECTIVE BALLASTS, AND BROKEN LENSES ON ALL FIXTURES THAT ARE TO REMAIN OR BE REUSED IN PROJECT AREA. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY REQUIREMENTS.

ENGINEER

Scale



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4489 Byron Center Avenue Suite D **Grand Rapids, MI 49519** Phone: 616 365 5680 e3msolutions.com

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1	Permit	12/22				

Masjid Sunnah Renovation

2312 South Division, Grand Rapids, MI 49507

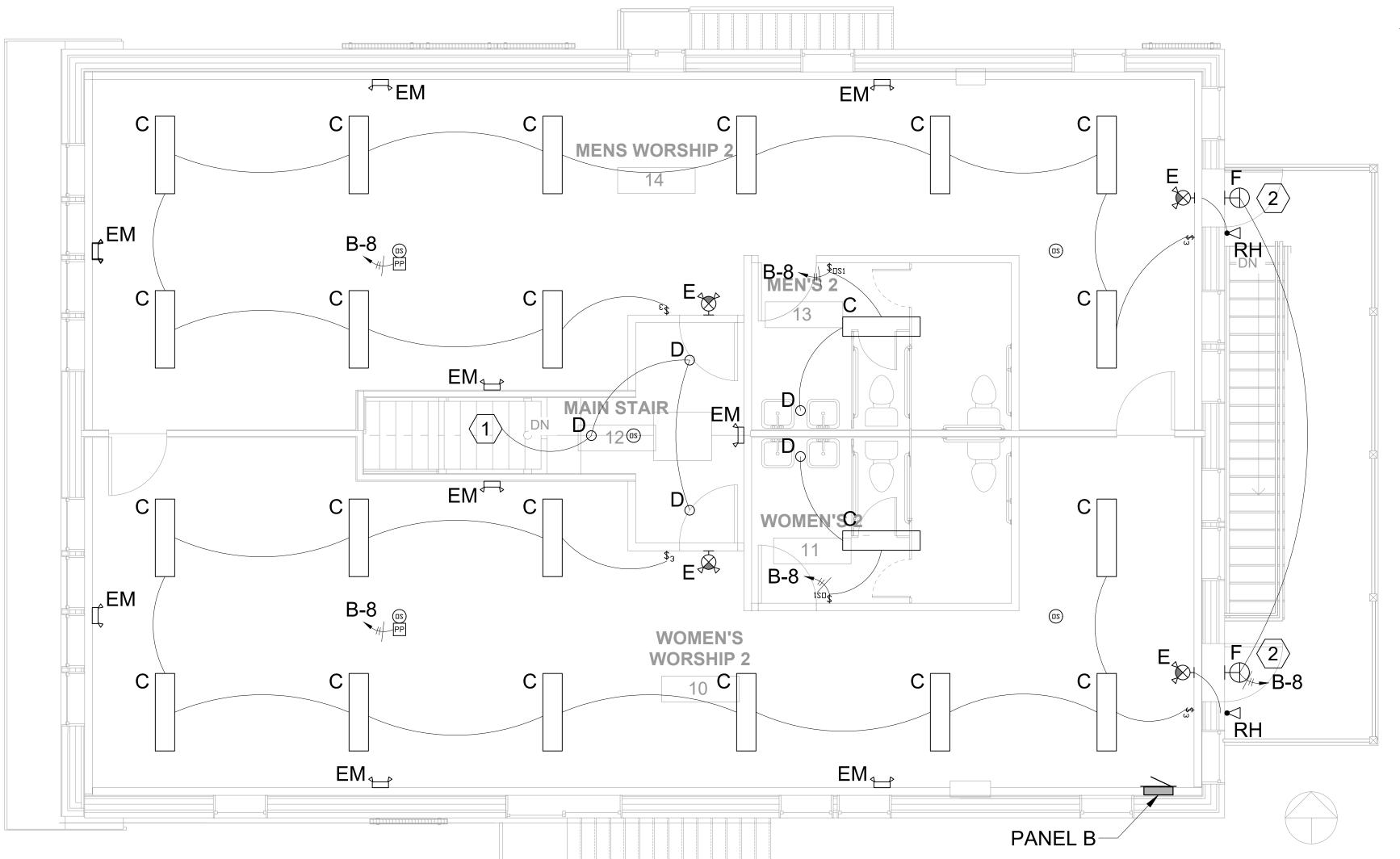
> **Electrical** Legends & Specifications

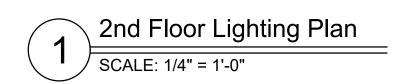
Project number	638
Date	22 December, 2020
Drawn by	AVD,DPP
Checked by	EDV

1/4" = 1'-0"

E100

	LIGHTING FIXTURE SCHEDULE										
TYPE	MANUFACTURER	PART#	DESCRIPTION	MOUNTING	LAMP(S)	LUMENS	WATTS	VOLTAGE	DIMMING	NOTES	
С	E-CONOLIGHT	C-WR-A-WLIN4-48L-40K-WH	1 X 4 LED SURFACE	SURFACE	LED	4800	39	120	ND	OR SIMILAR	
D	E-CONOLIGHT	DLS56-3009-120-4K-WH	6" SURFACE MOUNT LED DOWNLIGHT	SURFACE	LED	900	15	120	ND	OR SIMILAR	
E	E-CONOLIGHT	E-XCL2RRCW	LED EXIT SIGN	SURFACE	LED	-	-	120	ND	OR SIMILAR	
EM	E-CONOLIGHT	E-XML1W	(2) HEAD LED	SURFACE	LED	-	-	120	ND	OR SIMILAR	
F	BEST	LEDWP555N-SK-P-WP5500150	LED WALL PACK	SURFACE	LED	3450	28	120	ND	OR SIMILAR	
RH	E-CONOLIGHT	E-XHL1WG	EXTERIOR REMOTE LED HEAD	SURFACE	LED	-	-	120	ND	OR SIMILAR	





GENERAL ELECTRICAL NOTES:

- A. LIGHTING CONTROLS IS BASED ON LUTRON SYSTEM (OR APPROVED EQUAL). ALL OFFICE AREA SWITCHES ARE DECORATOR SWITCH WITH OCCUPANCY SENSORS AND 0-10V DIMMING.
- A.A. CORNER MOUNT OCC SENSOR PART# LOS-WIR-WH
 A.B. CEILING MOUNT OCC SENSOR PART# LRF2-OCR2B-WH
- A.C. POW PACK PART# RMJ-5T-DV-B
 A.D. WALL SWITCH (W/ OCC SENSOR) PART# MS-Z101-WH
- A.E. DIMMING WALL SWITCH (PICO) PART# MS-2101-WH

 A.E. DIMMING WALL SWITCH (PICO) PART# PJ2-3BRL-WH-L01R
- A.E.A. TO BE USED WIRELESSLY WITH POW PACK
 A.E.B. FOR LIGHTING CIRCUITS DIMMING WITH 0-10V SIGNAL
- A.F. MLV DIMMING WALL SWITCH PART# DVCL-600P-WH
 A.F.A. LIGHTING CIRCUIT NOT TO EXCEED 450W
- A.F.B. FOR LIGHTING CIRCUITS DIMMING WITH LINE VOLTAGE
- B. LIGHTING CONTROLS DESIGNED TO MEET MICHIGAN ENERGY CODE REQUIREMENTS THROUGH ASHRAE 90.1-2013.
 B.A. EXTERIOR FIXTURES TO BE CONTROLLED BY LOCAL PHOTOCELL
- SENSOR.

 B.B. MOTION SENSORS TO BE SET TO 'OCCUPANCY' MODE. LIGHTING TO AUTOMATICALLY COME ON TO 50% AND BE MANUALLY
- ADJUSTED TO 100% OR PRESET HIGH END TRIM LEVEL.

 B.C. OCCUPANCY SENSORS TO AUTOMATICALLY SHUT OFF LIGHTING AFTER DETECTING NO MOTION FOR 10 MINUTES.
- C. ALL LIGHTING CAPABLE OF 0-10V DIMMING TO HAVE 18/2 WIRE RUN TO FIXTURES FOR DIMMING CONTROL.
- D. ALL NEW EGRESS SIGNAGE AND LIGHTING TO BE CIRCUITED TO NEAREST UNSWITCHED LIGHTING CIRCUIT.
- E. ALL POWER PACKS TO BE INSTALLED ABOVE CEILING OR OUT OF SIGHT.

ELECTRICAL KEYED NOTES: (#)

- 1. CONNECT TO LOWER LANDING LIGHTING CIRCUIT.
- 2. PROVIDE TYPE 'F' WALL PACKS WITH PHOTOCELL FOR CONTROL.



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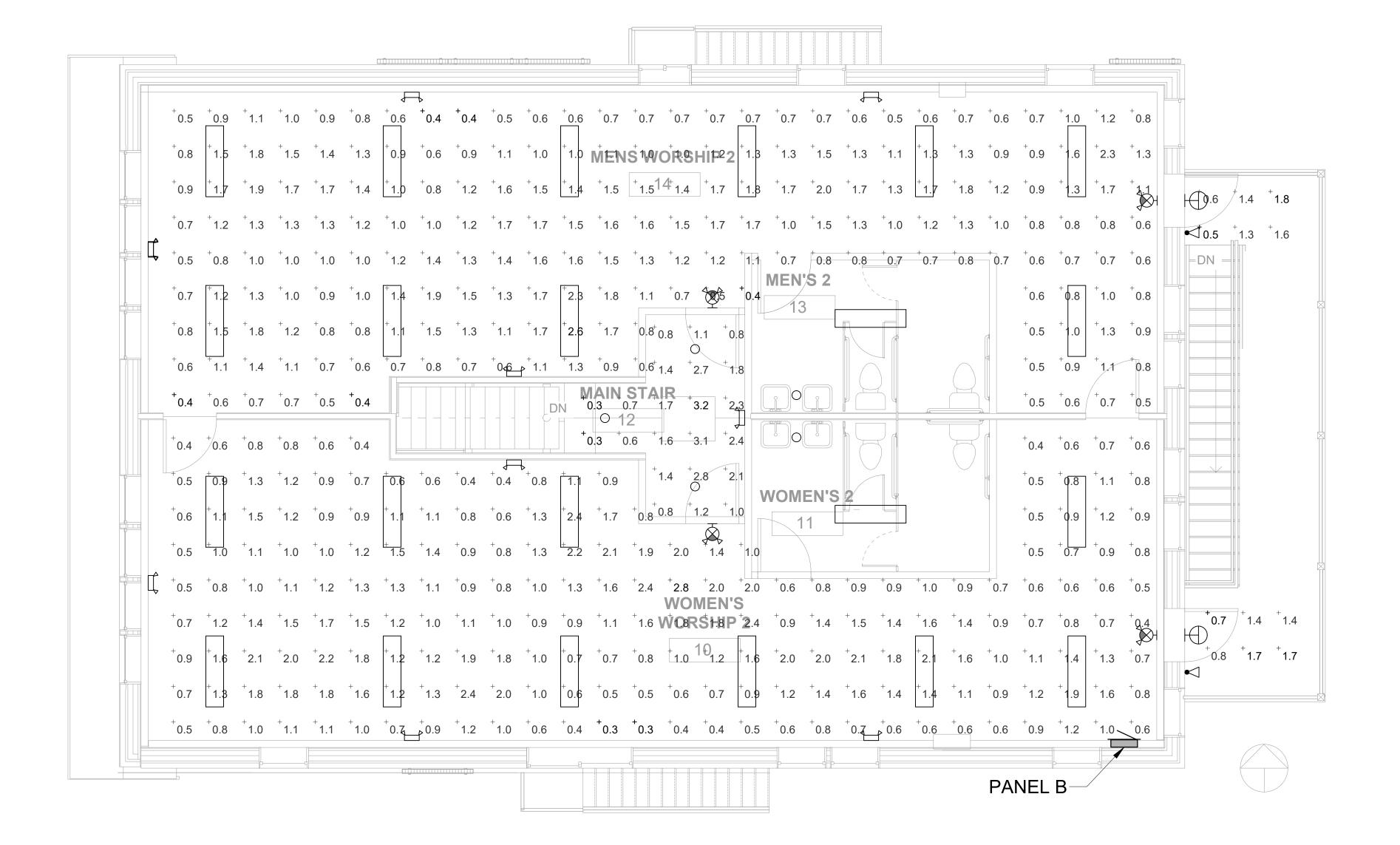
> Electrical Lighting 2nd Floor plan

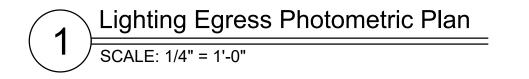
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E101

EGRESS PHOTOMETRIC STATISTICS							
AREA	AVG. (fc)	MAX. (fc)	MIN. (fc)	MAX:MIN	AVG:MIN		
WOMEN'S WORSHIP - 10	1.10	2.80	0.30	9.3:1	3.7:1		
MEN'S WORSHIP - 14	1.10	2.80	0.30	9.3:1	3.7:1		
WOMEN'S WORSHIP EXIT	1.2	1.8	0.5	3.6:1	2.4:1		
MEN'S WORSHIP - EXIT	1.2	1.8	0.5	3.6:1	2.4:1		
MAIN STAIR - 12	1.6	3.2	0.3	10.7:1	5.3:1		







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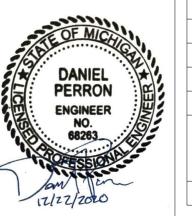
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Electrical Lighting 2nd Egress Photometrics



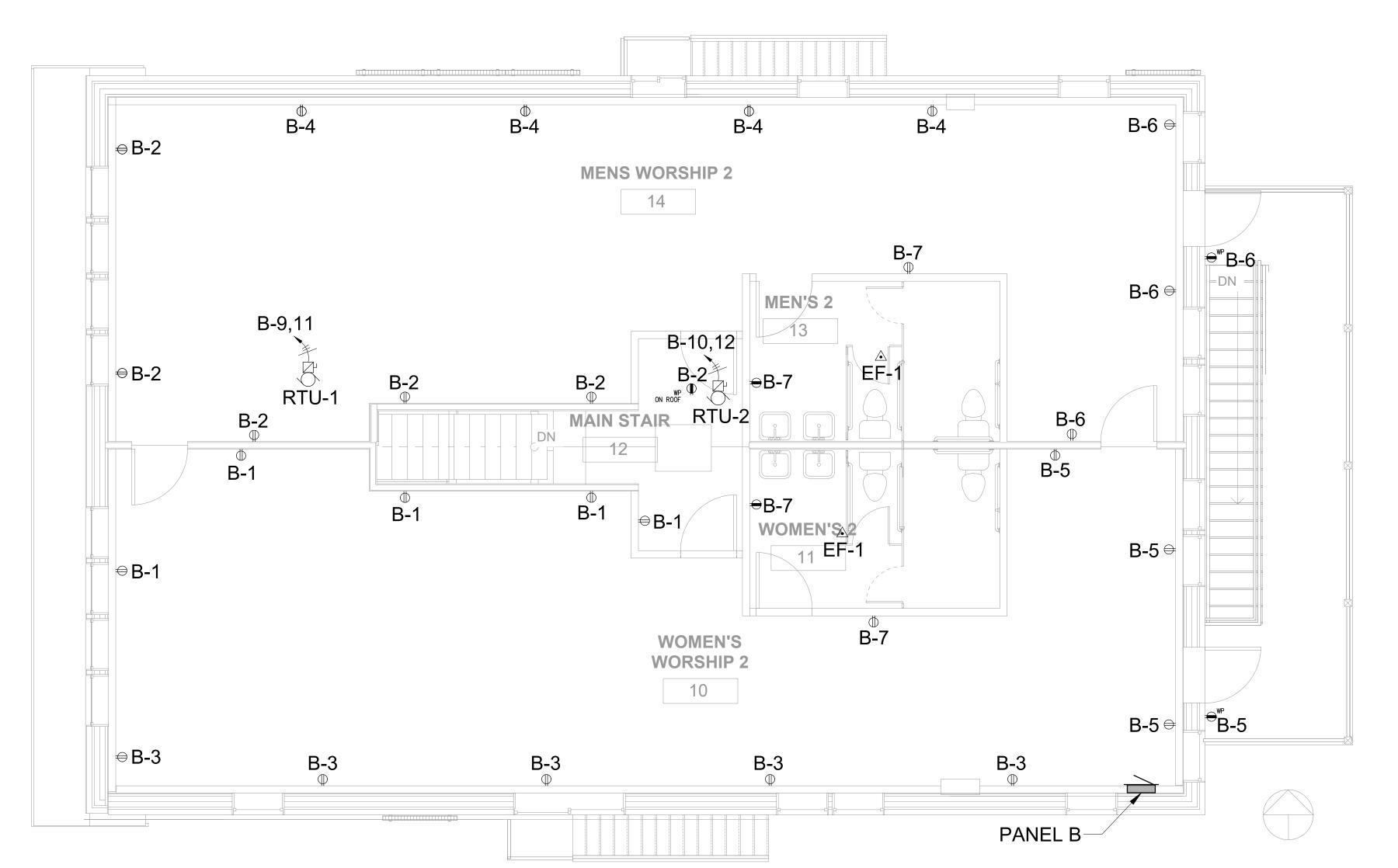
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awn by	AVD,DPP
necked by	EDV

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1/4" = 1'-0"

ecember, 20

CKT. NO		VOLT AMPS				CKT.		CKT.		VOLT AMPS				
	LTG	MTRS	REC.	OTHER	DESCRIPTION	BRKR.	PHASE	BRKR.	DESCRIPTION	LTG	MTRS	REC.	OTHER	CKT. NO.
1			900		Receptacles	1P20	Α	1P20	Receptacles			900		2
3			900		Receptacles	1P20	В	1P20	Receptacles			720		4
5			900		Receptacles	1P20	А	1P20	Receptacles			900		6
7			900		Receptacles	1P20	В	1P20	Lighting	960				8
9				9860	RTU-1	2P60	A	2P60	RTU-2				9860	10
11						-	В	-						12
13						1	А	1						14
15						1	В	1						16
17						1	Α	1						18
19						1	В	1						20
21						1	Α	1						22
23						1	В	1						24
25						1	Α	1						26
27						1	В	1						28
29						1	Α	1						30
SUBT	0	0	3600	9860						960	0	2520	9860	SUBT
TOTA	AL LOAD =	26800	VA											
	LTG =	960	VA								VOLTS:	120/		VAC
	MTRS =	0	VA							PHAS	SE / WIRE:	1 ph /	/ 3 W	
	REC. =	6120	VA (100%	1ST 10K,	THEN 50%)					MAIN E	BREAKER:	15	50	Amps
	OTHER =	19720	VA								OUNTING:			
										PANEL L	OCATION:			
ine Amps	=	124.1	Amps											
Notes:											Panel ID:			



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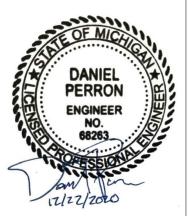
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Electrical Power 2nd Floor Plan



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