

### SPECIALTIES SCHEDULE FURNISHED INSTALLE

ITEM DESCRIPTION | HEIGHT | WIDTH | BY | D BY COMMENTS ID# SP-01A MARKERBOARD 4' - 0" 6' - 0" G.C. 4' - 0" 10' - 0" G.C. 4' - 0" 4' - 0" G.C. 4' - 0" 6' - 0" G.C. 4' - 0" 8' - 0" G.C. SP-01B GLASS MARKERBOARD TACKBOARD TACKBOARD SP-02B TACKBOARD ART HANGING SYSTEM 0' - 1" 6' - 0" G.C. ART HANGING SYSTEM 0' - 1" 2' - 0" G.C.
CLIMBING WALL G.C. SP-03B REFER TO FINISH PLANS FOR FLOORING NOTES

SP-02A

SP-04

EQUIPMENT SCHEDULE

ID#	ITEM DESCRIPTION	HEIGHT	WIDTH	FURNISHED BY	INSTALLED BY	COMMENTS
EQ-01A	TELEVISION			OWNER	G.C.	
EQ-01B	TELEVISION			OWNER	G.C.	
EQ-01C	TELEVISION			OWNER	G.C.	
EQ-01D	TELEVISION			OWNER	G.C.	
EQ-02	REFRIGERATOR			OWNER	G.C.	
EQ-03A	LIGHT DISPLAY BOARDS			G.C.	G.C.	WALL MOUNTED
EQ-03B	LIGHT DISPLAY BOARDS			G.C.	G.C.	CEILING/FLOOR MOUNTED
EQ-04	STOVE			OWNER	G.C.	
EQ-05	DISHWASHER			OWNER	G.C.	
EQ-06	UNDERCOUNTER REFRIGERATOR			OWNER	G.C.	
EQ-07	COPIER			OWNER	G.C.	
EQ-08	WASHER			OWNER	G.C.	
EQ-09	DRYER			OWNER	G.C.	
EQ-10	WALL OVEN			OWNER	G.C.	
EQ-11	MICROWAVE			OWNER		

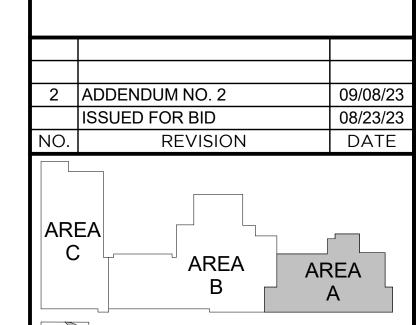
# GENERAL PLAN NOTES:

- DIMENSIONS INDICATED ARE FROM THE FACE OF STUD AND FACE OF MASONRY UNLESS NOTED OTHERWISE. REFER TO ENLARGED PLANS FOR
- ADDITIONAL DIMENSIONS NOT INDICATED ON OVERALL PLANS. 2. REFER TO FLOOR FINISHPLANS FOR FLOOR MATERIALS & PATTERNS. 3. PLUMBING FIXTURES ARE SHOWN FOR REFERENCE & LOCATION ONLY, REFER TO
- MECHANICAL DRAWINGS FOR DETAILS & SPECIFICATIONS. CONTRACTOR TO COORDINATE LOCATIONS OF ADDITIONAL PENETRATIONS THROUGH WALLS AND FLOORS NOT INDICATED ON ARCHITECTURAL DRAWINGS. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL. REFER TO STRUCTURAL DRAWINGS FOR LINTEL OR FRAMING REQUIREMENTS.

#### 5. ALL INTERIOR WALLS ARE 8" CMU (2.0) UNLESS OTHERWISE NOTED.

# # PLAN KEYNOTES

- 1 TOILET PARTITION 2 MOP SINK (REFER TO MECHANICAL DRAWINGS FOR
- DETAILS) ` 3 UTILITY SHELF W/ MOP HOLDER; RE: SPEC.
- 4 SENSORY SWING, RE: FURNISHED BY OWNER 5 COPY MACHINE BY OWNER, RE: ELECT.
- 6 SHOWER ROD 7 DOWNSPOUT NOZZEL
- 8 NEW COLUMN FOR EXISTING BEAM, CONTRACTOR TO CONDUCT ON SITE CONFERENCE WITH ARCHITECT AND ENGINEER TO VERIFY LOCATION AND DETERMINE IF WHAT IS SHOWN IS APPROPRIATE.
- 9 ADULT CHANGING TABLE 10 ADA BENCH







# **WTA** ARCHITECTS

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PROJECT TITLE

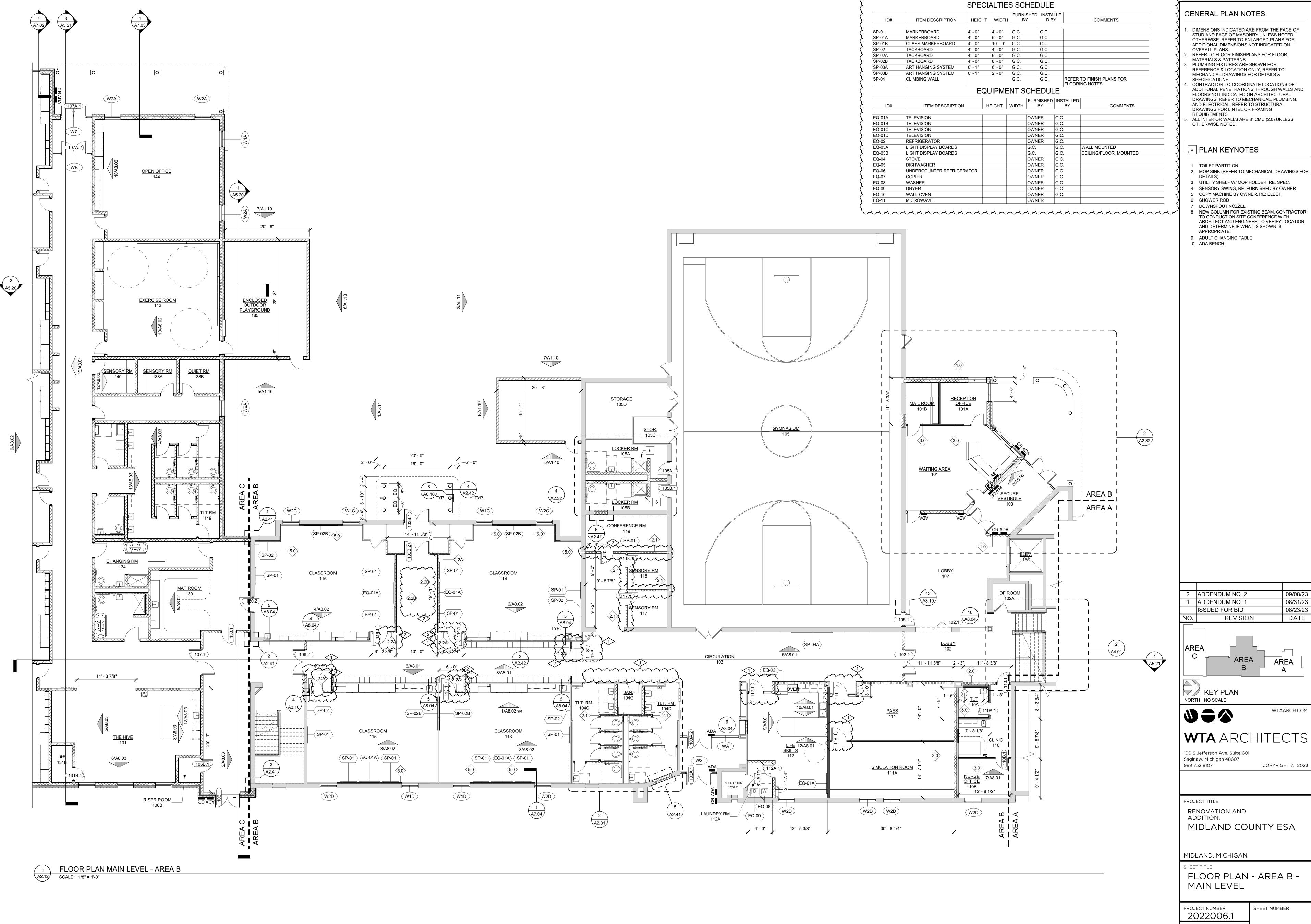
RENOVATION AND ADDITION:

MIDLAND COUNTY ESA

# MIDLAND, MICHIGAN

FLOOR PLAN - AREA A -LOWER LEVEL

	PROJECT NUMBER 2022006.1	SHEET NUMBER
	PROJECT DATE AUGUST 23, 2023	A2.1
I	CHECKED BY	/ \



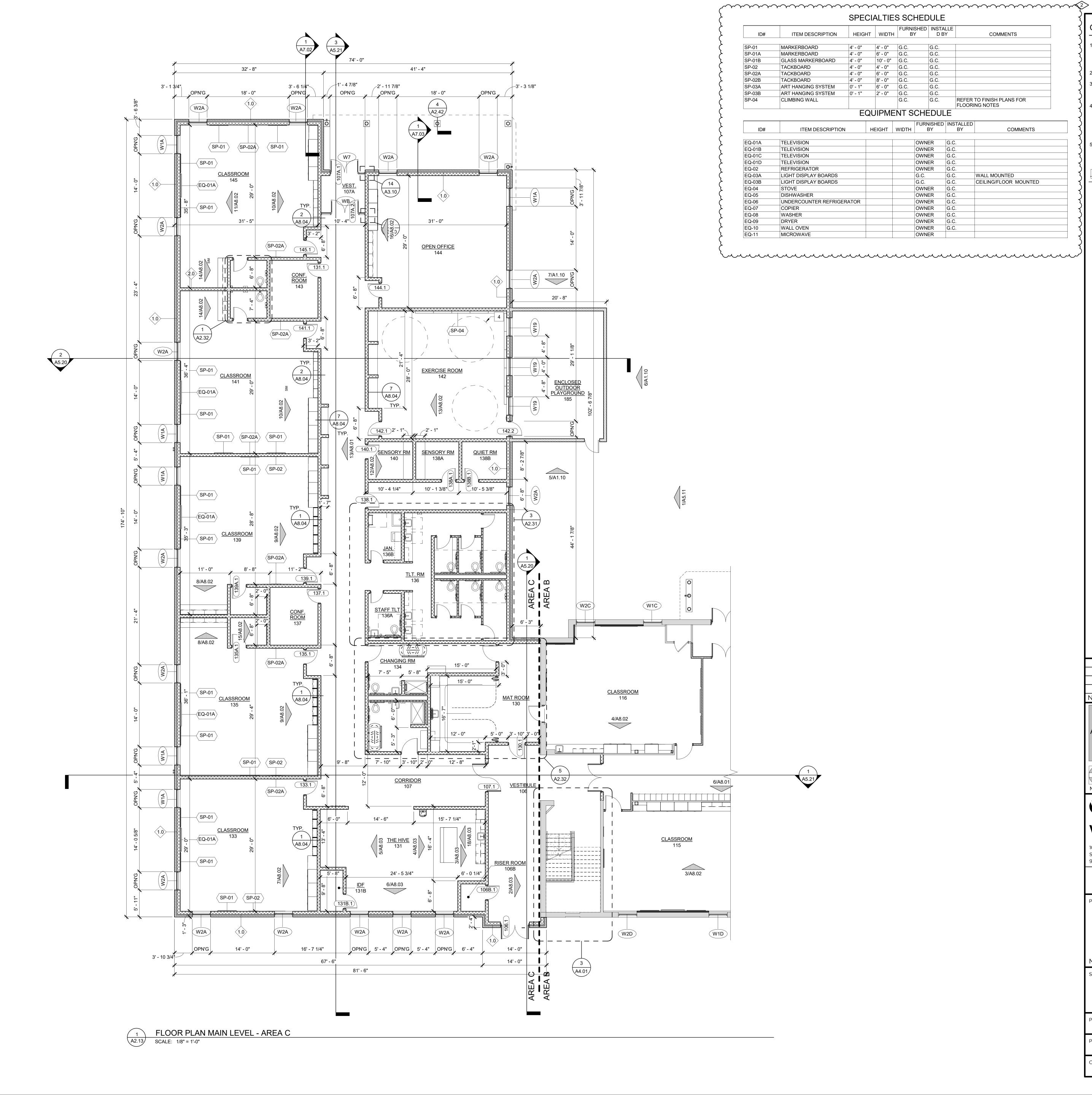
CONTRACTOR TO COORDINATE LOCATIONS OF ADDITIONAL PENETRATIONS THROUGH WALLS AND DRAWINGS. REFER TO MECHANICAL, PLUMBING,

8 NEW COLUMN FOR EXISTING BEAM, CONTRACTOR ARCHITECT AND ENGINEER TO VERIFY LOCATION

08/23/23

PROJECT DATE AUGUST 23, 2023

A2.12 CHECKED BY



# GENERAL PLAN NOTES:

COMMENTS

REFER TO FINISH PLANS FOR FLOORING NOTES

WALL MOUNTED

CEILING/FLOOR MOUNTED

COMMENTS

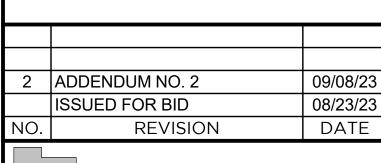
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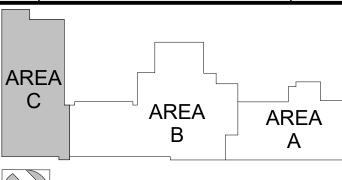
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- REQUIREMENTS. ALL INTERIOR WALLS ARE 8" CMU (2.0) UNLESS OTHERWISE NOTED.

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- 3 UTILITY SHELF W/ MOP HOLDER; RE: SPEC. 4 SENSORY SWING, RE: FURNISHED BY OWNER
- 5 COPY MACHINE BY OWNER, RE: ELECT. 6 SHOWER ROD 7 DOWNSPOUT NOZZEL
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- APPROPRIATE. 9 ADULT CHANGING TABLE 10 ADA BENCH









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PROJECT TITLE

JMJ

RENOVATION AND ADDITION: MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

FLOOR PLAN - AREA C -MAIN LEVEL

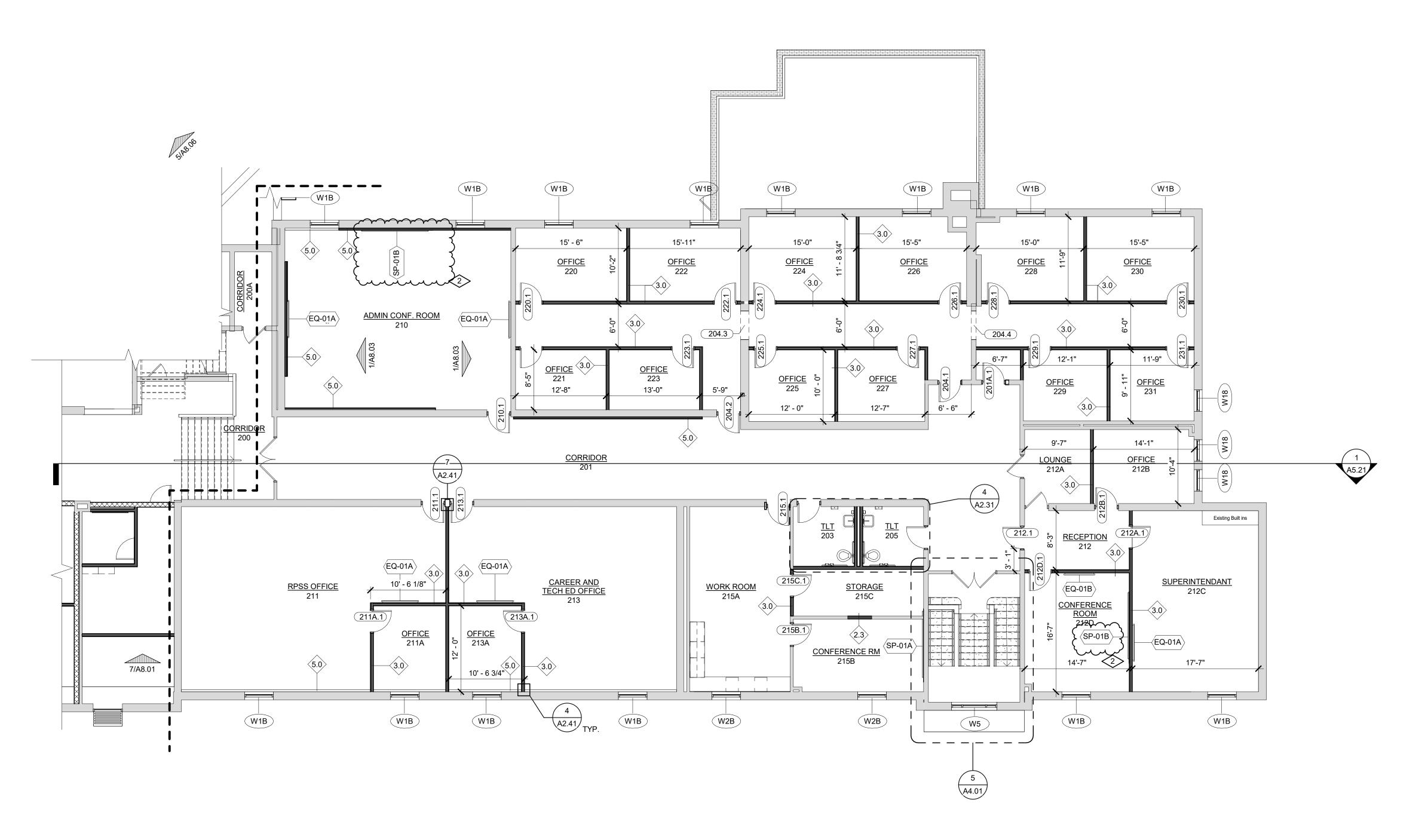
PROJECT NUMBER	SHEET NUMBER
2022006.1	
PROJECT DATE	A
AUGUST 23, 2023	A2.
CHECKED BY	, \ <u> </u>

ID#	ITEM DESCRIPTION	HEIGHT	WIDTH	FURNISHED BY	INSTALLE D BY	COMMENTS
SP-01	MARKERBOARD	4' - 0"	4' - 0"	G.C.	G.C.	
SP-01A	MARKERBOARD	4' - 0"	6' - 0"	G.C.	G.C.	
SP-01B	GLASS MARKERBOARD	4' - 0"	10' - 0"	G.C.	G.C.	
SP-02	TACKBOARD	4' - 0"	4' - 0"	G.C.	G.C.	
SP-02A	TACKBOARD	4' - 0"	6' - 0"	G.C.	G.C.	
SP-02B	TACKBOARD	4' - 0"	8' - 0"	G.C.	G.C.	
SP-03A	ART HANGING SYSTEM	0' - 1"	6' - 0"	G.C.	G.C.	
SP-03B	ART HANGING SYSTEM	0' - 1"	2' - 0"	G.C.	G.C.	
SP-04	CLIMBING WALL			G.C.	G.C.	REFER TO FINISH PLANS FOR FLOORING NOTES
EQUIPMENT SCHEDULE						

SPECIALTIES SCHEDULE

ID#	ITEM DESCRIPTION	HEIGHT	WIDTH	FURNISHED BY	INSTALLED BY	COMMENTS
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EQ-01B	TELEVISION			OWNER	G.C.	
EQ-01C	TELEVISION			OWNER	G.C.	
EQ-01D	TELEVISION			OWNER	G.C.	
EQ-02	REFRIGERATOR			OWNER	G.C.	
EQ-03A	LIGHT DISPLAY BOARDS			G.C.	G.C.	WALL MOUNTED
EQ-03B	LIGHT DISPLAY BOARDS			G.C.	G.C.	CEILING/FLOOR MOUNTED
EQ-04	STOVE			OWNER	G.C.	
EQ-05	DISHWASHER			OWNER	G.C.	
EQ-06	UNDERCOUNTER REFRIGERATOR			OWNER	G.C.	
EQ-07	COPIER			OWNER	G.C.	
EQ-08	WASHER			OWNER	G.C.	
EQ-09	DRYER			OWNER	G.C.	
EQ-10	WALL OVEN			OWNER	G.C.	
EQ-11	MICROWAVE			OWNER		

munimunimunimunimi



1 FLOOR PLAN UPPER LEVEL - AREA A

SCALE: 1/8" = 1'-0"

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  2. REFER TO FLOOR FINISHPLANS FOR FLOOR MATERIALS & PATTERNS.

  3. PLUMBING FIXTURES ARE SHOWN FOR
- MECHANICAL DRAWINGS FOR DETAILS &
  SPECIFICATIONS.

  4. CONTRACTOR TO COORDINATE LOCATIONS OF
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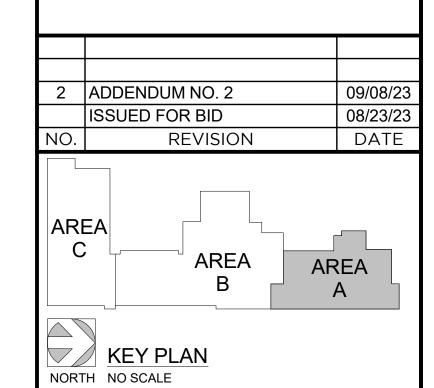
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  5 COPY MACHINE BY OWNER BE: ELECT
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- 7 DOWNSPOUT NOZZEL
   8 NEW COLUMN FOR EXISTING BEAM, CONTRACTOR TO CONDUCT ON SITE CONFERENCE WITH
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  AND DETERMINE IF WHAT IS SHOWN IS
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  9 ADULT CHANGING TABLE
- 10 ADA BENCH





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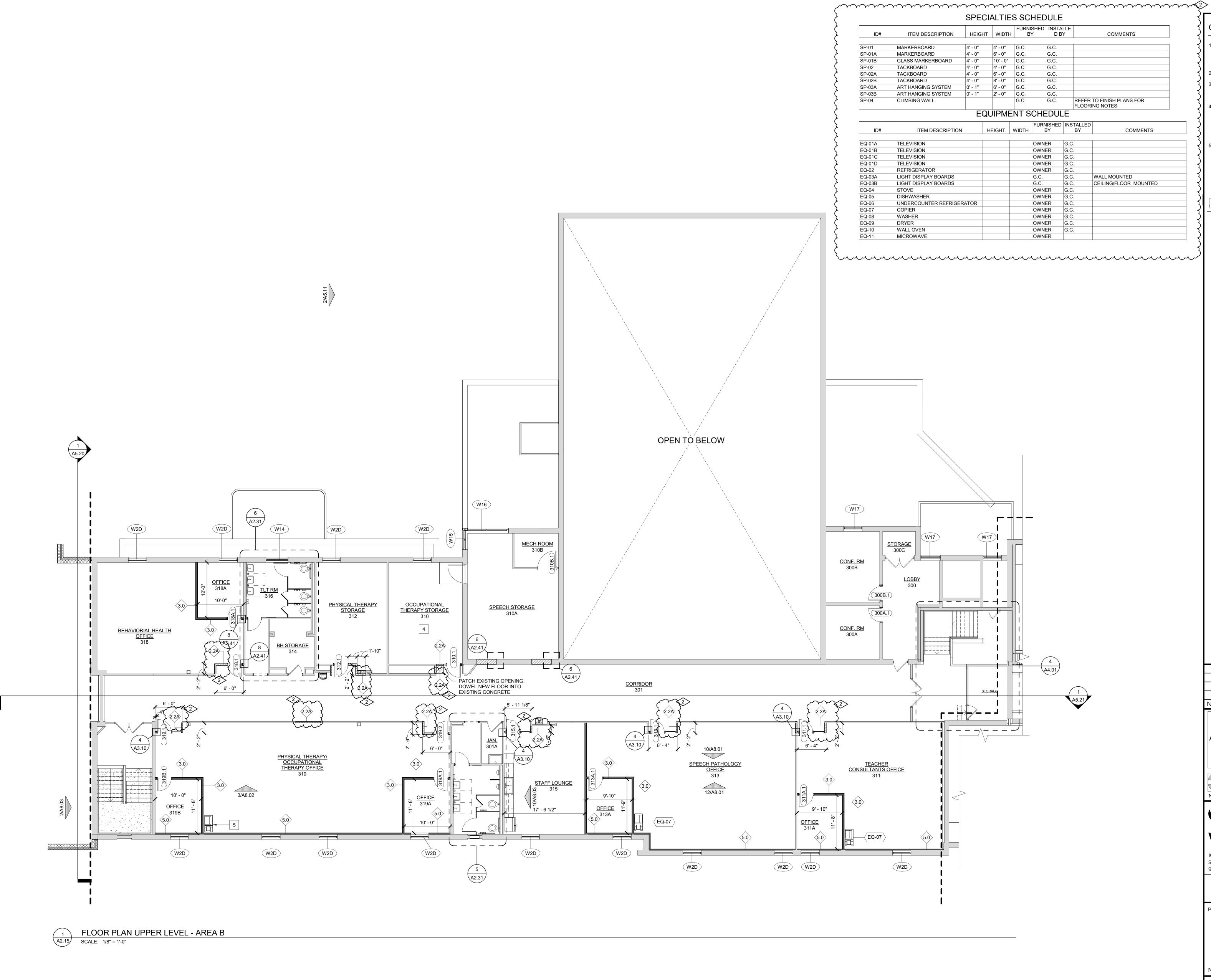
PROJECT TITLE

RENOVATION AND ADDITION:
MIDLAND COUNTY ESA

# MIDLAND, MICHIGAN

FLOOR PLAN - AREA A - UPPER LEVEL 2

PROJECT NUMBER 2022006.1	SHEET NUMBER
PROJECT DATE AUGUST 23, 2023	A2.1
CHECKED BY	, (



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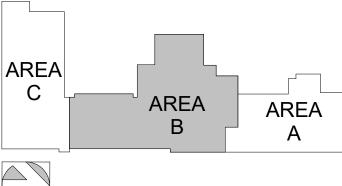
APPROPRIATE. 9 ADULT CHANGING TABLE

10 ADA BENCH

SHOWER ROD

DOWNSPOUT NOZZEL

ADDENDUM NO. 2 ISSUED FOR BID 08/23/23 REVISION





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RENOVATION AND ADDITION:

MIDLAND COUNTY ESA

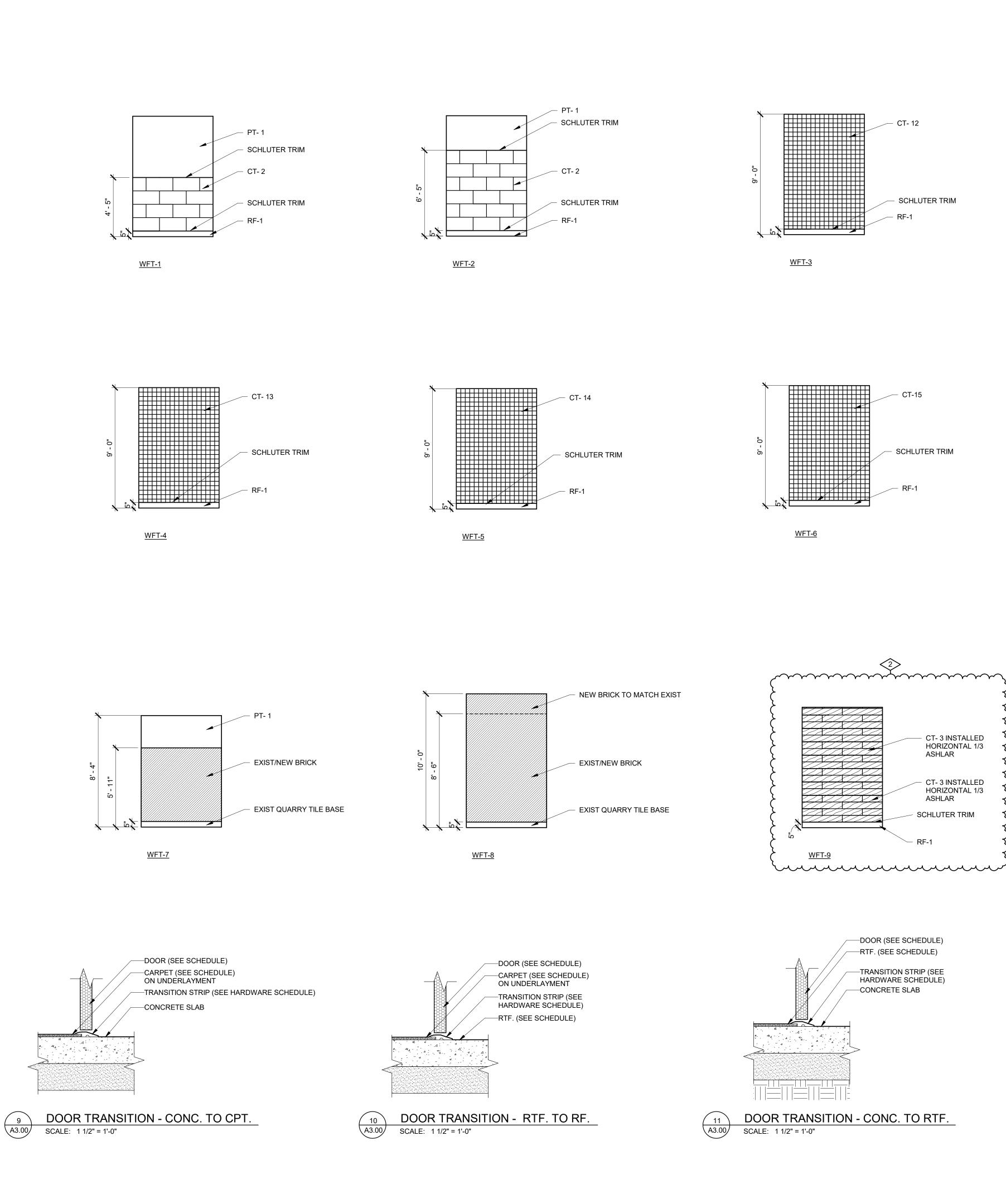
MIDLAND, MICHIGAN

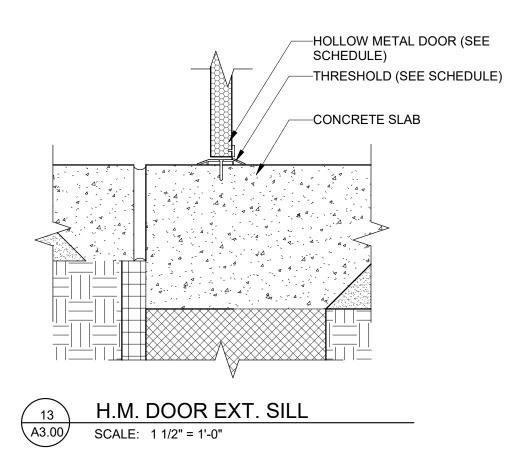
FLOOR PLAN - AREA B -UPPER LEVEL 3

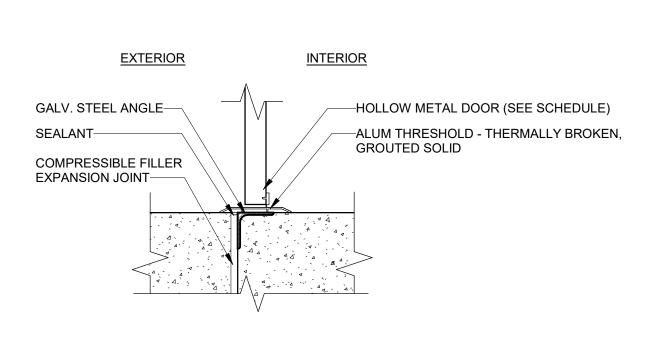
PROJECT NUMBER SHEET NUMBER 2022006.1 PROJECT DATE A2.15 AUGUST 23, 2023

CHECKED BY JMJ

SN SN	MATERIAL LEG	STYLE	COLOR	SIZE	REMARKS
COUSTIC CE	EILING TILE				
CT-1	USG	RADAR CLIMA PLUS HIGH NRC	WHITE	24 X 24	
CT-2	ARMSTRONG	METALWORKS SECURELOCK NO PERF.	WHITE	24 X 24	
CT-3	ARMSTRONG	TECTUM LAY IN	WHITE	24 X 48	HOLD DOWN CLIPS
COUSTIC PA P-1	NEL ARMSTRONG	TECTUM SHAPES	FIELD PAINTED PT-5	46" X 40" X 2"	CEILING SUSPENDED IN HIVE
P-2	USG	HEXAGON COLORTEX - BARZ	WHITE OAK WOODGRAIN	4" X 8"	CEILING BAFFLES CORRIDOR
					201
P-3	USG	COLORTEX - BARZ	WHITE OAK WOODRAIN	2" x 10"	CEILING BAFFLES CORRIDOR  201
P-4 RTIFICAL TU	ARMSTRONG IRF	INVISACOUSTICS	FIELD PAINTED PT-10	24" X 48" X 3/4"	CEILING DECK IN HIVE
URF-1	FIELDTURF	COMMAND PLAY		15'x50'	
RICK -1	BELDEN BRICK	MODULAR 141-145	22-44	3-5/8" X 2-1/4" X	EXTERIOR
-2	BELDEN BRICK	VERTICAL MODULAR 470-479	LIGHT A	7-5/8" 3-5/8" X 2-1/4" X	MATCH EXISTING INTERIOR
- <del></del>	BELDEN BRICK	MODULAR 141-145	22-44	7-5/8" X 2-1/4" X	EXTERIOR ENCLOSURES
~ ~ ~	JANUAR STREET	VERTICAL	Luuuuuuuuu	7-5/8"	
ARPET TO	INTERFACE	BITRATE	DARK TEAL	10 X 40	ASHLAR INSTALL- ADMIN
PT-2	INTERFACE	SOURCE MATERIAL	GRAPHITE	10 X 40	CORRIDORS  ASHLAR INSTALL-OFFICES
PT-3	INTERFACE	UPLOAD	LIGHT TEAL	10 X 40	ACCENT
PT-4 PT-5	MANNINGTON MANNINGTON	CURRENT	STREAM 15844 STREAM 15844	18" x 36" 18" x 36"	AHSLAR - SUPERINT. ASHLAR - SUPERINT.
PT-6 PT-7	SHAW PATCRAFT	OBSERVE COLOR TILE CONNECTING	CALM OCEANS 05405 STROLL 00540	9 X 36 24 X 24	ASHLAR - ADMIN CONF. MONOLITHIC
PT-8	FORBO	FLOTEX EXPLORE PLANKS	065373 STEEL	39.37" x 9.48" x .2"	ASHLAR
PT-9 PT-10	FORBO FORBO	FLOTEX METRO TILE FLOTEX TRIAD PLANKS	546028 JADE 131007 STEEL	20" x 20" x .2" 39.37" x 9.48" x .2"	MONOLITHIC ASHLAR
PT-11 ERAMIC TILE	FORBO	FLOTEX MONTAGE PLANKS		39.37" x 9.48" x .2"	ASHLAR
T-1	CROSSVILLE	COLOR BLOX	CELESTIAL HORIZON	12" x 12"	STAFF TOILET FLOOR
T-2 T-3	CROSSVILLE AMERICAN OLEAN	READY TO WEAR CREEKWOOD	HAND IN GLOVE MAPLE LAKE	12" x 24" 6" x 36"	FIELD WALL TILE
T-4	AMERICAN OLEAN	COLOR STORY	84 PEACOCK BLUE(TEAL)	4" x 12"	VIBRANT GLOSS
T-5 T-6	AMERICAN OLEAN AMERICAN OLEAN	COLOR STORY COLOR STORY	68 GRACE (PURPLE) 77 MANDARIN (ORANGE)	4" x 12" 4" x 12"	VIBRANT GLOSS VIBRANT GLOSS
T-7 T-8	AMERICAN OLEAN NOT USED	COLOR STORY	76 GREEN APPLE (GREEN)	4" x 12"	VIBRANT GLOSS
T-9	AMERICAN OLEAN	COLOR STORY	84 PEACOCK BLUE HEXAGON	1.5" HEXAGON	VIBRANT GLOSS
T-10 T-11	OLYMPIA TILE ONIX	OCEANI 2003509 RODAS	AEQUA TESSERAE	2 X 10 1" X 1"	LIFE SKILLS SUBWAY STAFF LOUNGE
T-12	AMERICAN OLEAN	COLOR STORY	77 MANDARIN	4" x 4"	VIBRANT GLOSS
T-13 T-14	AMERICAN OLEAN  AMERICAN OLEAN	COLOR STORY COLOR STORY	76 GREEN APPLE 68 GRACE	4" x 4" 4" x 4"	VIBRANT GLOSS VIBRANT GLOSS
T-15 ONCRETE M	AMERICAN OLEAN	COLOR STORY	84 PEACOCK BLUE(TEAL)	4" x 4"	VIBRANT GLOSS
MU-1	MFR	STANDARD	UNFINISHED (FIELD PAINTED)	VARIESx8"x16"	
ECORATIVE PS-1	PANEL SYSTEM MARLITE	SIEVA LARGE PANEL	HPL - WILSONART LANDMARK	16'W X 8'H OA	
RERGI ASS	   REINFORCED PLASTION	PANEI	WOOD		
RP-1	MARLITE SYMMETRIX	SUBWAY HORIZONTAL	LOGGIA	4' X 4'	TILE SIZE = 6" X 3"
LASS BLOCK		CROSS RIBBED	CLEAR	8 X 8 X 4	MATCH EXISTING
OCKERS		1	1		WATOTIEMOTING
KR-1 ETAL PANEL	ASI -	BLACK CORE PHENOLIC	DESERT ZEPHYR 4583		
P-1 P-2	PAC-CLAD PAC-CLAD		CUSTOM COLOR GRANITE		EXTERIOR CANOPY EXTERIOR CANOPY CEILING
AINT		1	1	1	
T-1	SHERWIN WILLIAMS		LOGGIA SW7506		OVERALL PAINT
T-2	SHERWIN WILLIAMS		REALLY TEAL SW6489		TEAL ACCENT
T-3	SHERWIN WILLIAMS		RIVULET SW6760		LIGHT TEAL
T-4	SHERWIN		WOOD VIOLET SW6557		PURPLE ACCENT
T-5	WILLIAMS SHERWIN		ADVENTURE ORANGE SW6655		ORANGE ACCENT
T-6	WILLIAMS				
	SHERWIN WILLIAMS		PARAKEET SW6711		GREEN ACCENT
Γ-7	SHERWIN WILLIAMS		OVERJOY SW6689		YELLOW ACCENT
T-8	SHERWIN WILLIAMS		PAVESTONE SW7642		DOORS AND EXISTING TRIM
T-9	SHERWIN WILLIAMS		GAUNTLET GRAY SW7019		EXISTING ENTRY ACCENT
T-10	SHERWIN		IRON ORE SW7069		HIVE EXPOSED CLNG
T-11	WILLIAMS SHERWIN		HIGH REFLECTIVE WHITE		
LASTIC LAMI	- MILLIAMS Y Y	h u u u u u u u u u u u u u u u u u u u	SW7757		1 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	WILSONABA	60PTGRAHNEHNISH	LANDMARK 4400D 7981K12V	mum	CASEWORK&RECEPTION
LAM-2	WILSONART	FINE LINE TEXTURE	BLACK HILLS OAK 8248K-79	<del></del>	RÉCEPTION DESK
OLISHED CC	NCRETE		HATURALLUNGOLORED W		etassa demo
UARTZ COU	NTERTOP		IN THE OFFICE OFFICE OFFI	1- 2 2 3 3	
C-1 ESILIENT BA	SILESTONE ASE	OCEAN JASPER			POLISHED
NB-1	ROPPE	PINNACLE 4-1/2" COVE	123 CHARCOAL		
WB-2 WB-2	ROPPE TARKETT	PINNACLE 6" COVE 4" VENTED RUBBER BASE	123 CHARCOAL BLACK		
ESILIENT ST ST-1	ROPPE	MARBLE FIESTA WITH	MARENGO M410		WITH RUBBER STRIP
		RUBBER STRIP	IVI ALTOU IVIT IU		WITH NODDLINGTRIF
	LE FLOORING  PATORAPT	TERAPH ****	YGRAVEL	<u>24</u> X <u>24</u>	STAPF LOUNGE FIELD }
TF-2	PATCRAFT	PLANAR	TEAL PLANAR	24 X 24	STAFF LOUNGE ACCENT)
TF-3 ESHNOUS BA	ROPPE	MARBLE FIESTA	MARENGO M410		
B-1	SHERWIN WILLIAMS	1/4" RESUFLOR DECO FLAKE	RIVER ROCK		
ESINOUS FL	OORING				
F-1	SHERWIN WILLIAMS	1/4" RESUFLOR DECO FLAKE	RIVER ROCK		
SLID SURFA	KE TO THE STATE OF		<del>\</del>		1
× 2~~ ~~ ~	Yeorian V		ARTISTA GRAY		~~~~~~~~~ <u>~</u>
	CORAN		ARTIOTA ORAT		1
S-2 S-3 TONE	CORAN CORIAN		LAVA ROCK		

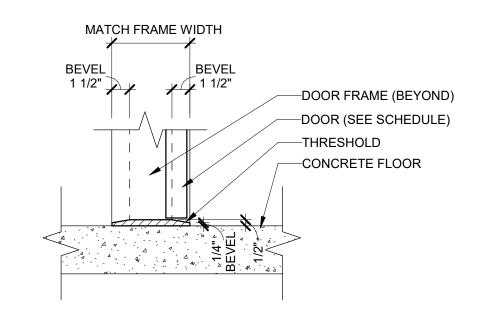


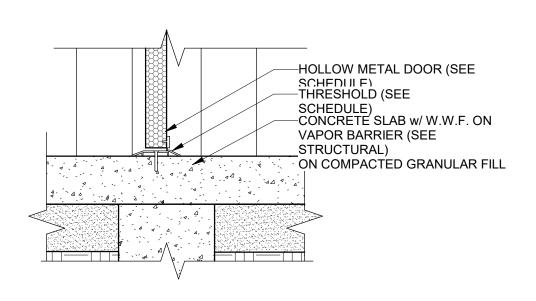




EXTERIOR DOOR THRESHOLD DETAIL

SCALE: 1 1/2" = 1'-0"





DOOR TRANISTION - RTF. TO CPT.

12 DOOR TRANIS A3.00 SCALE: 1 1/2" = 1'-0"

DOOR THRESHOLD DETAIL SCALE: 1 1/2" = 1'-0"

16 HM DOOR DETAIL @ 106
A3.00 SCALE: 1 1/2" = 1'-0"

WFT-10 LEGEND

CT- 4

CT- 5

CT- 6

CT- 7

"|

WFT-10

INTERIOR GENERAL NOTES: AT STUD WALL LOCATIONS PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS,

INCLUDING BUT NOT LIMITED TO: GRAB BARS, MIRRORS, DISPENSERS, ETC. (REFER TO MFR. RECOMMENDATIONS.

ALL NEW CASEWORK TO HAVE HIGH PRESSURE LAMINATE EXTERIOR AND MELAMINE LAMINATE INTERIOR. UNLESS OTHERWISE NOTED.

ALL FURNITURE THAT IS NOT BUILT-IN IS NOT PART OF THE SCOPE OF THIS PROJECT.

REFER TO FINISH MATERIAL SCHEDULE FOR SPECIFIC MANUFACTURER, STYLE, COLOR & SIZE

INFORMATION

REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION . AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE

DIFFERENT TILE THICKNESSES PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED

WITHIN A ROOM. . TYPICAL CASE WORK NOTATION EXAMPLE

—A.W.S. DESIGNATION

10. ALL CASEWORK LOCKABLE UNLESS OTHERWISENOTED (DOORS AND DRAWERS).

1. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC) AND ELECTRICAL EQUIPMENT (PANELS, ETC) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.

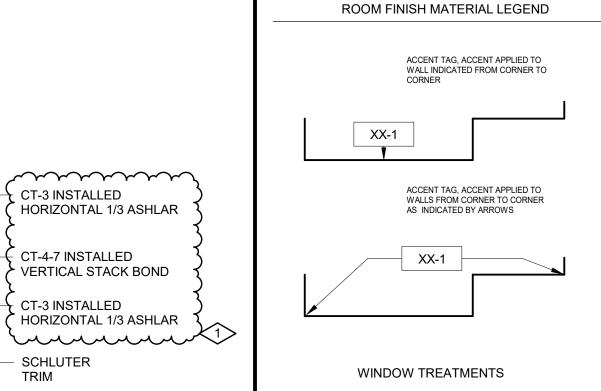
2. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH

EXISTING FINISH CONDITION AS REQUIRED. 13. PROVIDE APPROPRIATE TRANSITION STRIPS

BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS. 14. CARPET EDGES SHALL BE CAPTURED BY NOSING, NOSING SHALL BE MITERED AT ALL OUTSIDE AND

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TO MATCH ADJACENT FLOORING MATERIAL AT ALL ELECTRICAL FLOOR BOX COVERS AS REQUIRED.



 $\sim\sim\sim\sim\sim\sim$ 

HORIZONTAL 1/3 ASHLAR

VERTICAL STACK BOND

HORIZONTAL 1/3 ASHLAR

CT-3 INSTALLED

CT-4-7 INSTALLED

CT-3 INSTALLED

- SCHLUTER

—DOOR (SEE SCHEDULE)

ON UNDERLAYMENT

-CARPET (SEE SCHEDULE)

TRANSITION STRIP (SEE

HARDWARE SCHEDULE)

-RTF. (SEE SCHEDULE)

\_\_\_\_\_ FINISH PLAN KEY | WALL |FLOOR| EXCEPTIONS -

	REMARKS	
$\sim$		
2	ADDENDUM NO. 2	09/08/23
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23
NO.	REVISION	DATE

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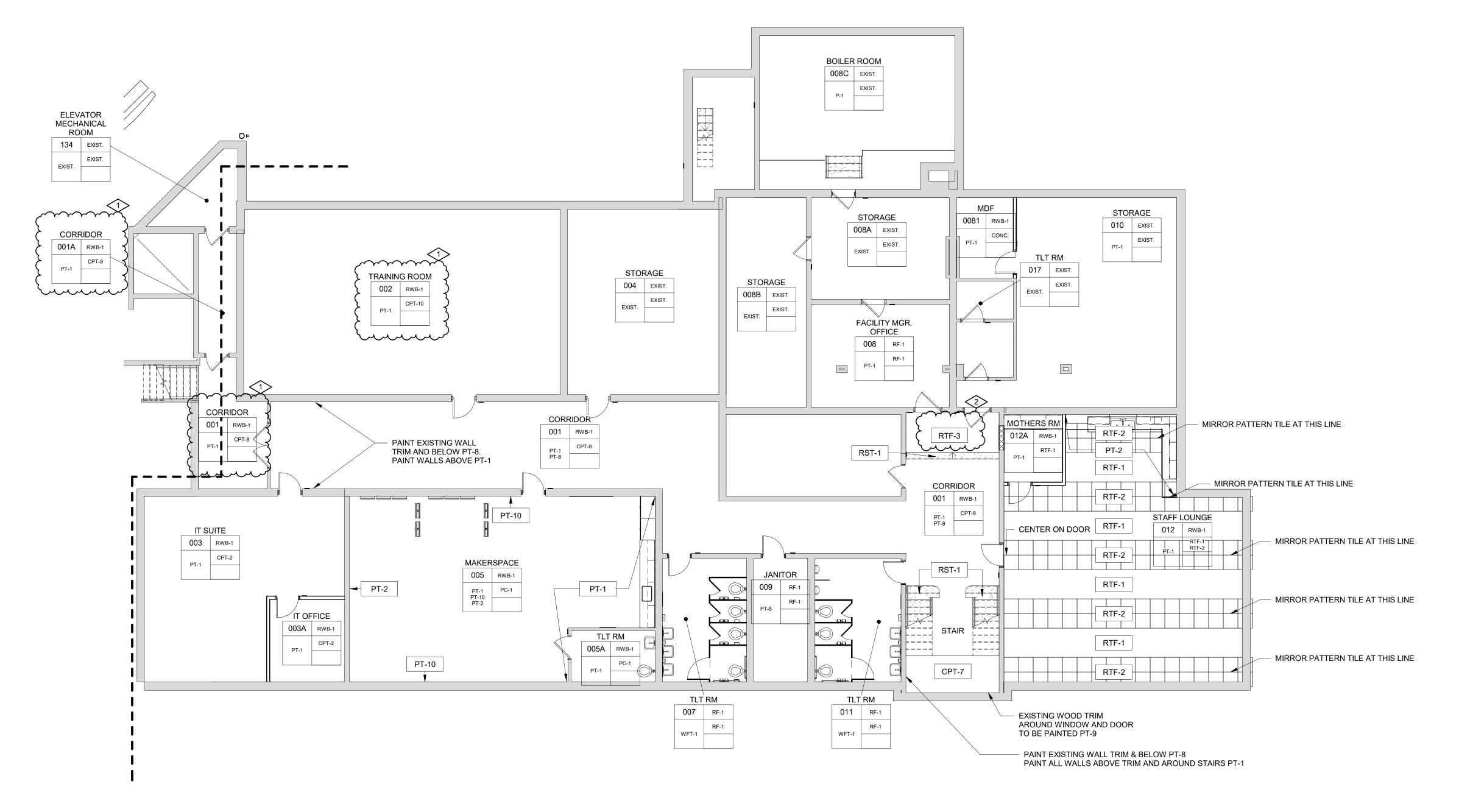
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

FINISH SCHEDULES AND

LEGENDS SHEET NUMBER PROJECT NUMBER 2022006.1

PROJECT DATE A3.00 AUGUST 23, 2023 CHECKED BY JMJ

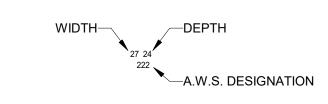


LOWER LEVEL - AREA A SCALE: 1/8" = 1'-0"

### **INTERIOR GENERAL NOTES:**

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- EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM.

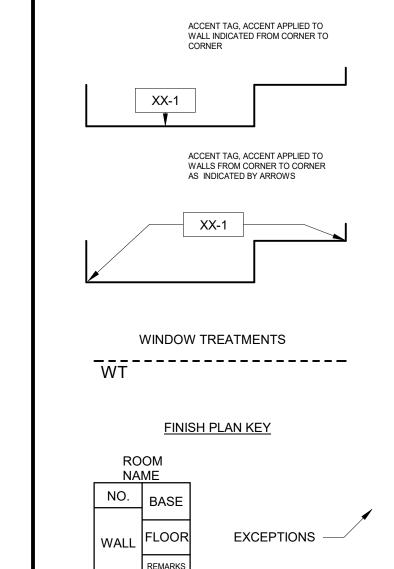
9. TYPICAL CASE WORK NOTATION EXAMPLE

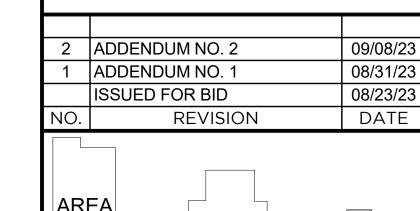


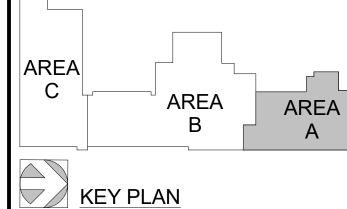
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ROOM FINISH MATERIAL LEGEND

15. FLOORING CONTRACTOR SHALL INSTALL INSERTS TO MATCH ADJACENT FLOORING MATERIAL AT ALL ELECTRICAL FLOOR BOX COVERS AS REQUIRED.









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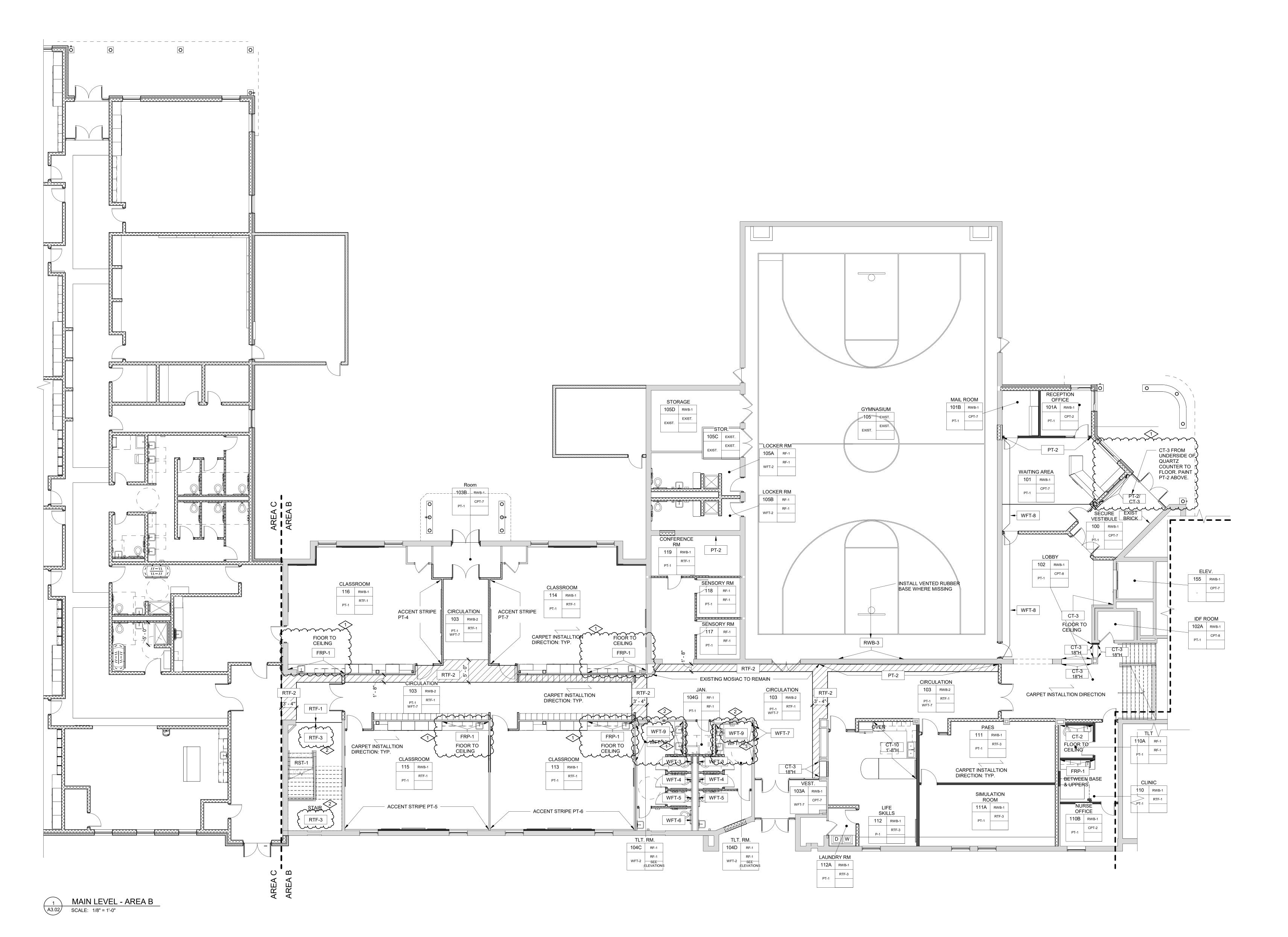
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

**ROOM FINISH PLANS -**AREA A - LOWER LEVEL

PROJECT NUMBER SHEET NUMBER 2022006.1 PROJECT DATE

A3.01 AUGUST 23, 2023 CHECKED BY JMJ



## INTERIOR GENERAL NOTES:

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  3. ALL FURNITURE THAT IS NOT BUILT-IN IS NOT PART
- OF THE SCOPE OF THIS PROJECT.

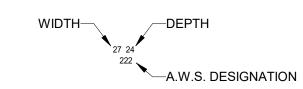
  4. REFER TO FINISH MATERIAL SCHEDULE FOR SPECIFIC MANUFACTURER, STYLE, COLOR & SIZE
- INFORMATION
  5. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION
  6. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE
- APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES

  7.

  8. PROVIDE RESILIENT BASE AT TOE KICK OF ALL
- EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM.

9. TYPICAL CASE WORK NOTATION EXAMPLE

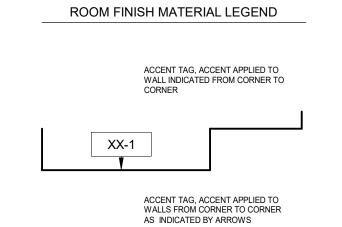
CASEWORK AND BEHIND ALL MOVABLE

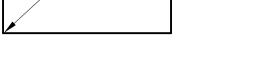


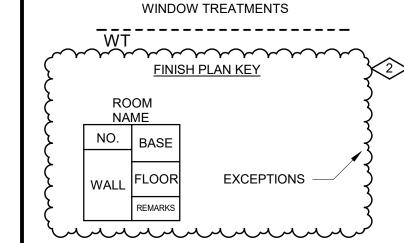
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QUANTITIES AND LOCATIONS.

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2	ADI	09/08/23		
1	ADI		08/31/23	
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PROJECT TITLE

RENOVATION AND ADDITION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

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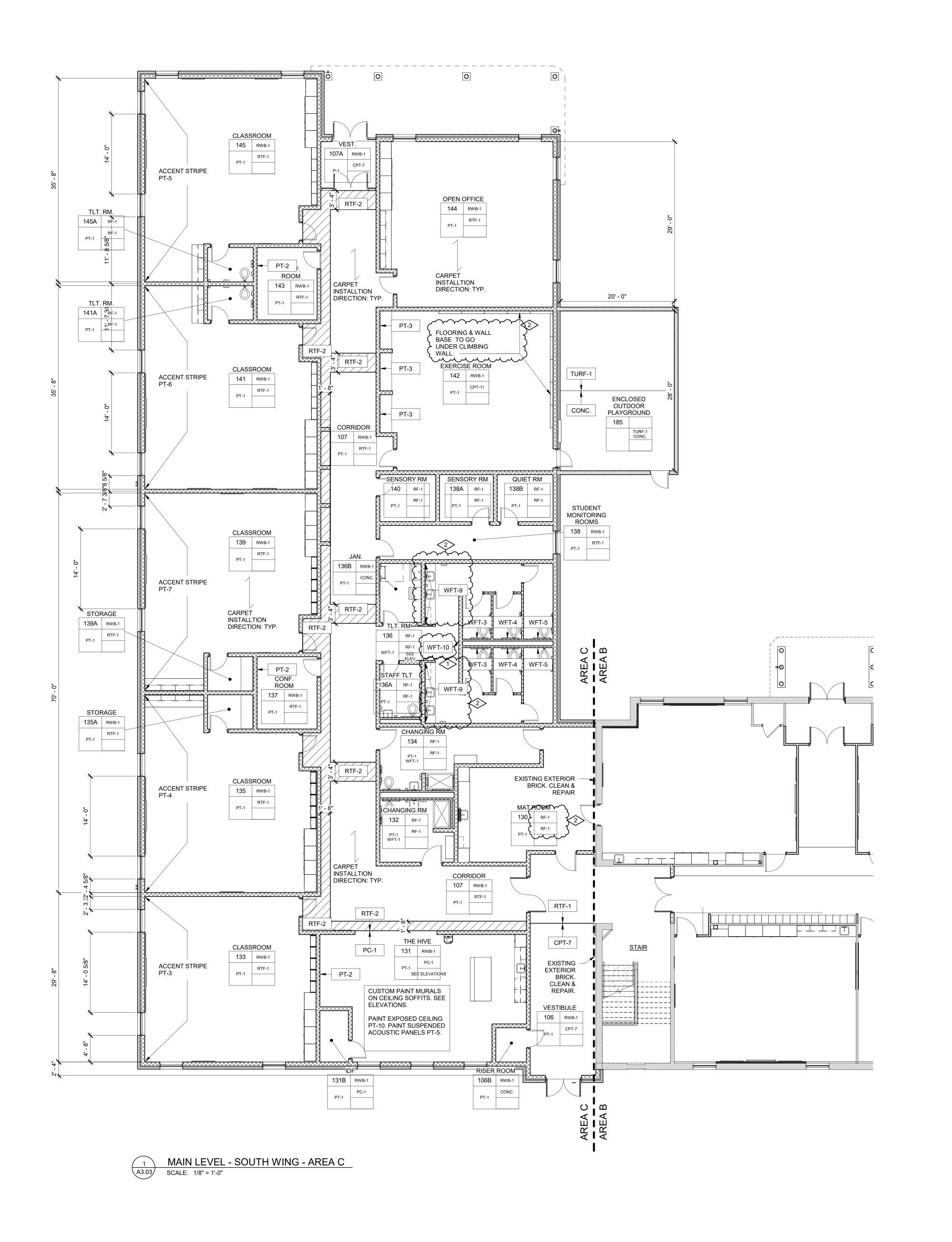
JMJ

ROOM FINISH PLANS -AREA B - MAIN LEVEL

PROJECT NUMBER
2022006.1

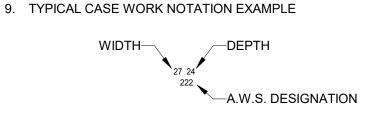
PROJECT DATE
AUGUST 23, 2023

CHECKED BY



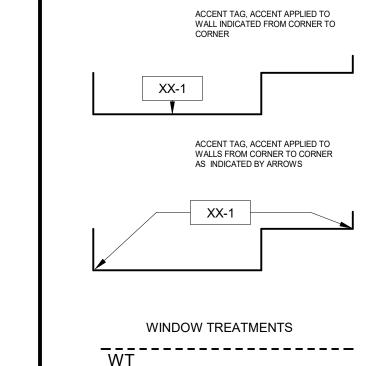
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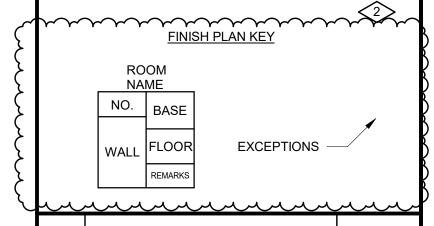
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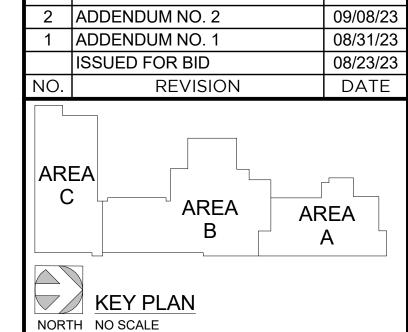


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ROOM FINISH MATERIAL LEGEND









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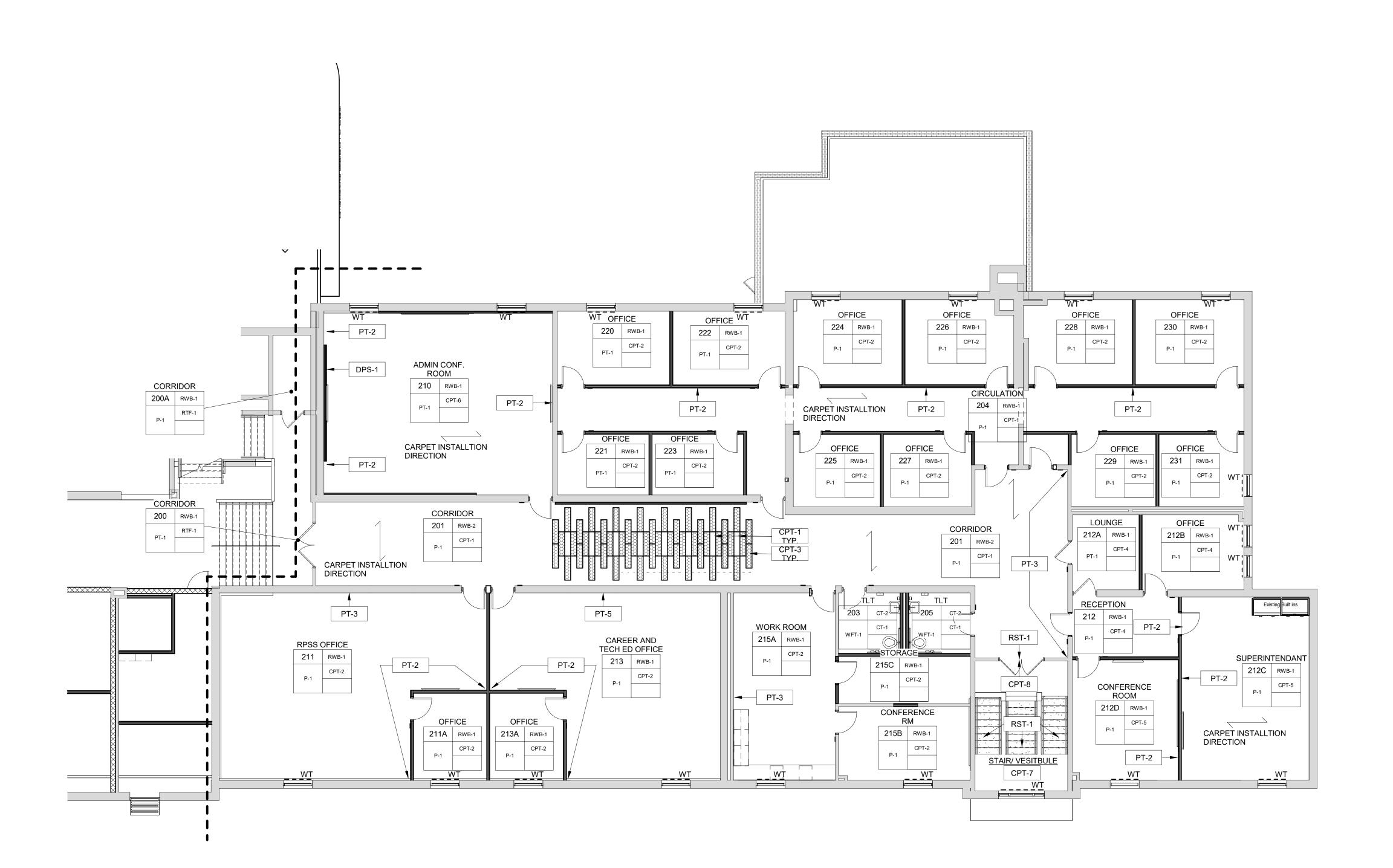
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

**ROOM FINISH PLANS -**AREA C - MAIN LEVEL

SHEET NUMBER PROJECT NUMBER 2022006.1 PROJECT DATE A3.03 AUGUST 23, 2023

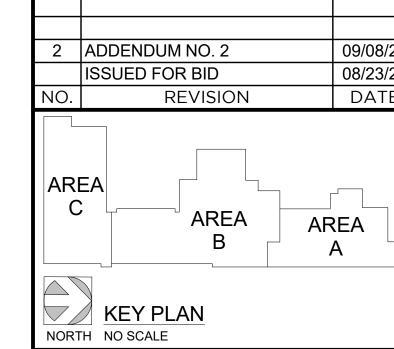
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UPPER LEVEL 2 - AREA A

SCALE: 1/8" = 1'-0"

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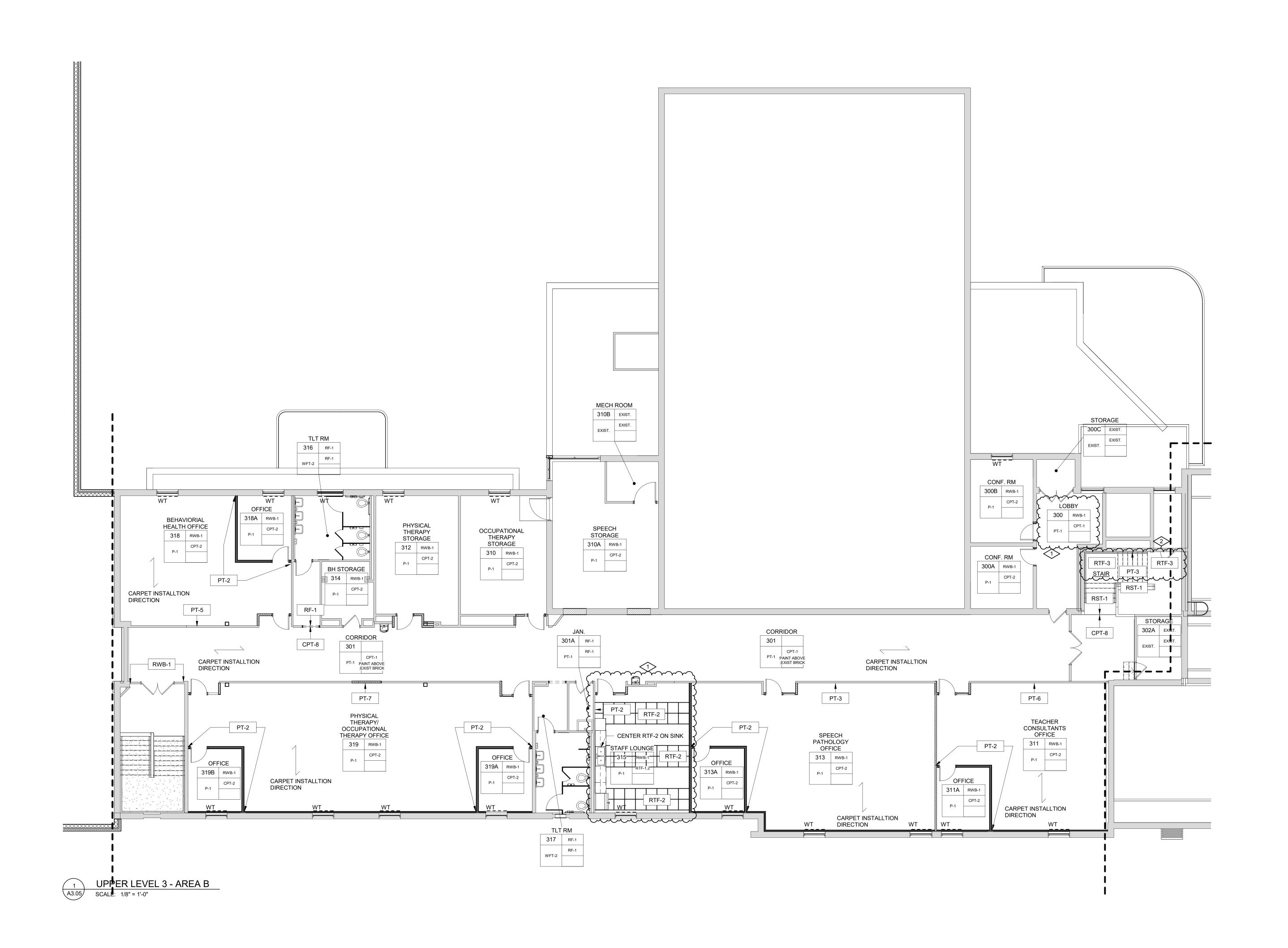
RENOVATION AND ADDITION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

**ROOM FINISH PLANS -**AREA A - UPPER LEVEL 2

SHEET NUMBER PROJECT NUMBER 2022006.1 PROJECT DATE A3.04 AUGUST 23, 2023 CHECKED BY JMJ

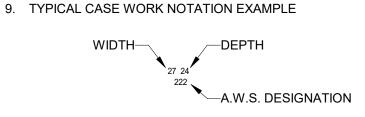


### **INTERIOR GENERAL NOTES:**

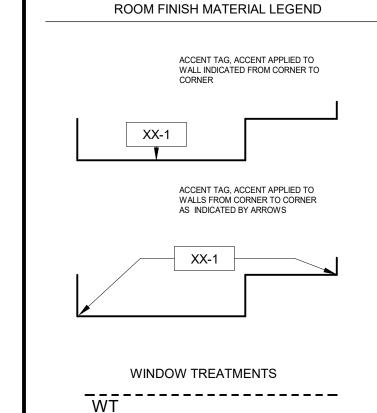
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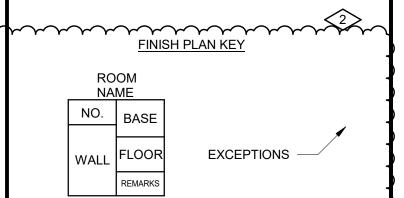
OF THE SCOPE OF THIS PROJECT.

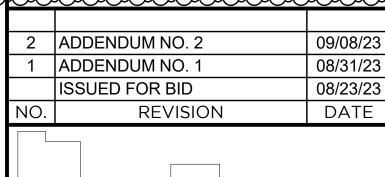
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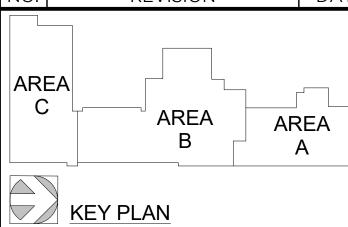


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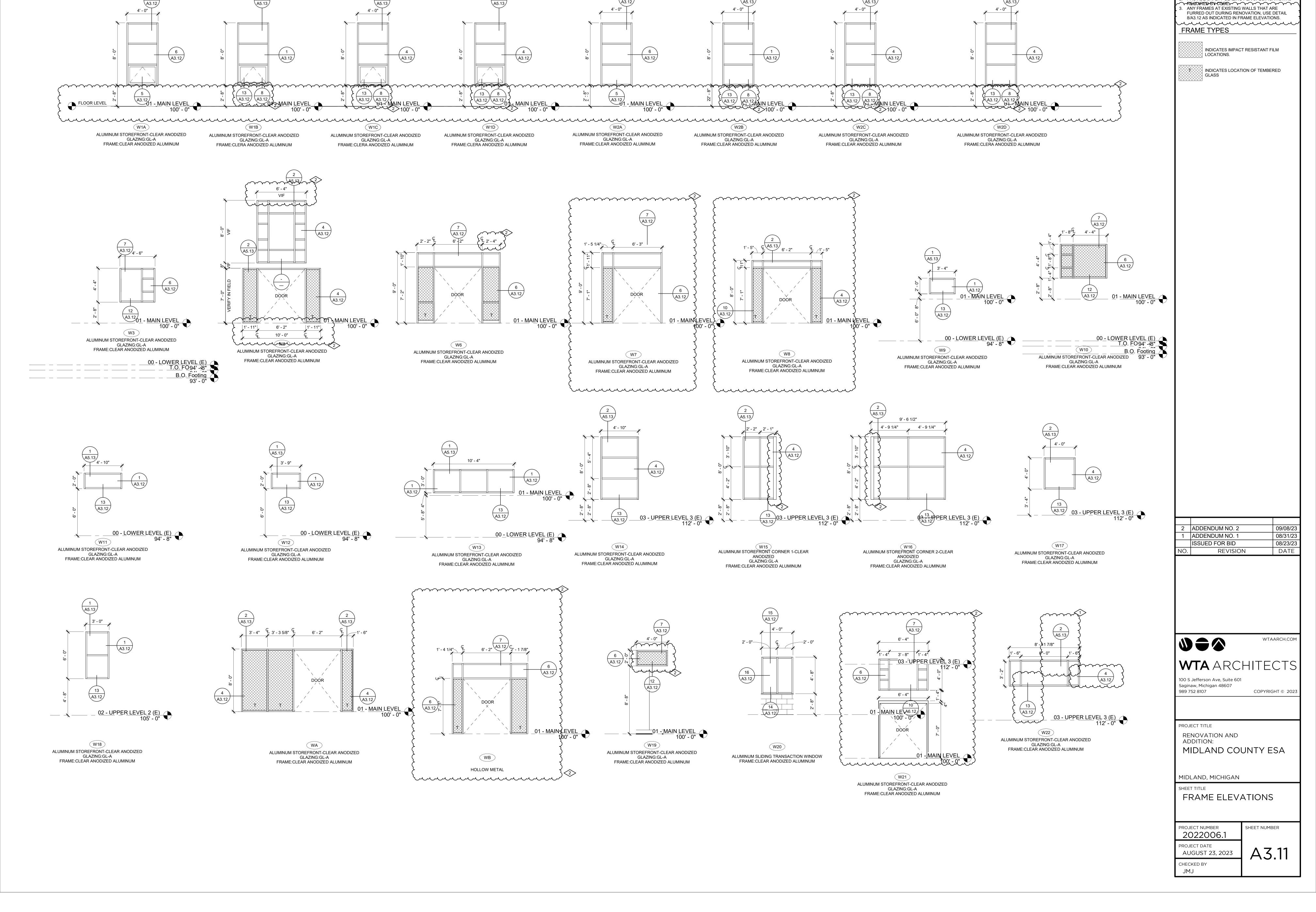
MIDLAND COUNTY ESA

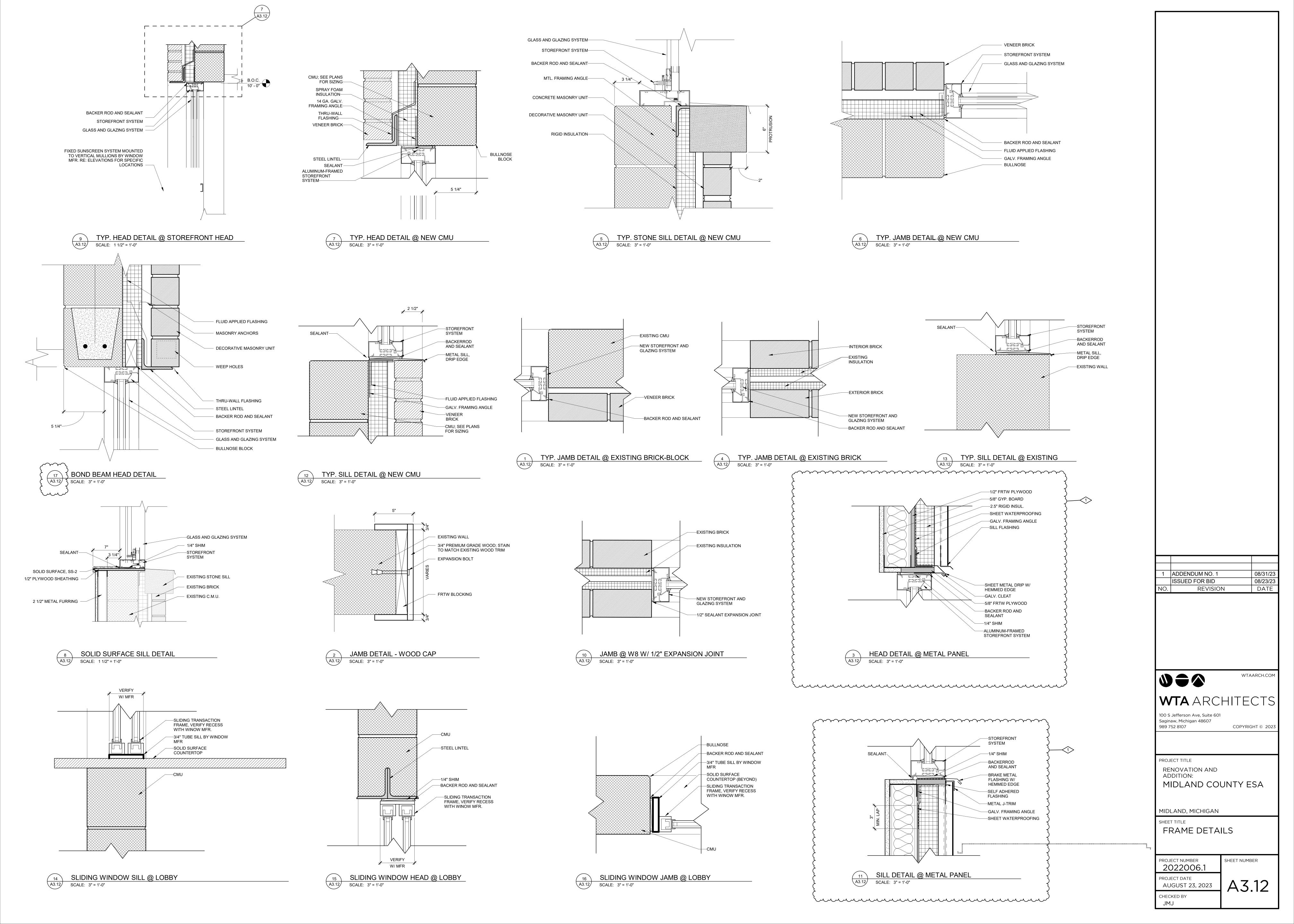
MIDLAND, MICHIGAN

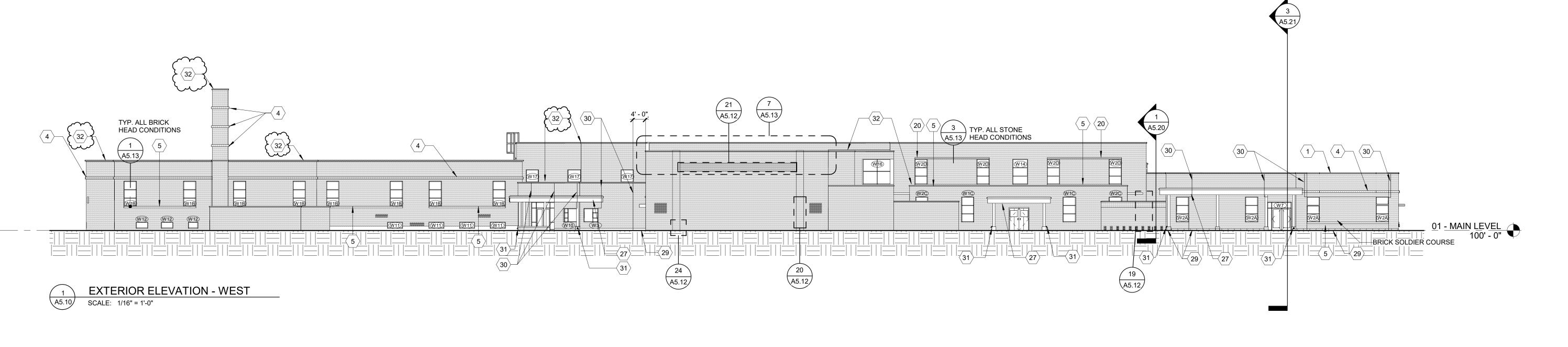
**ROOM FINISH PLANS -**AREA B - UPPER LEVEL 3

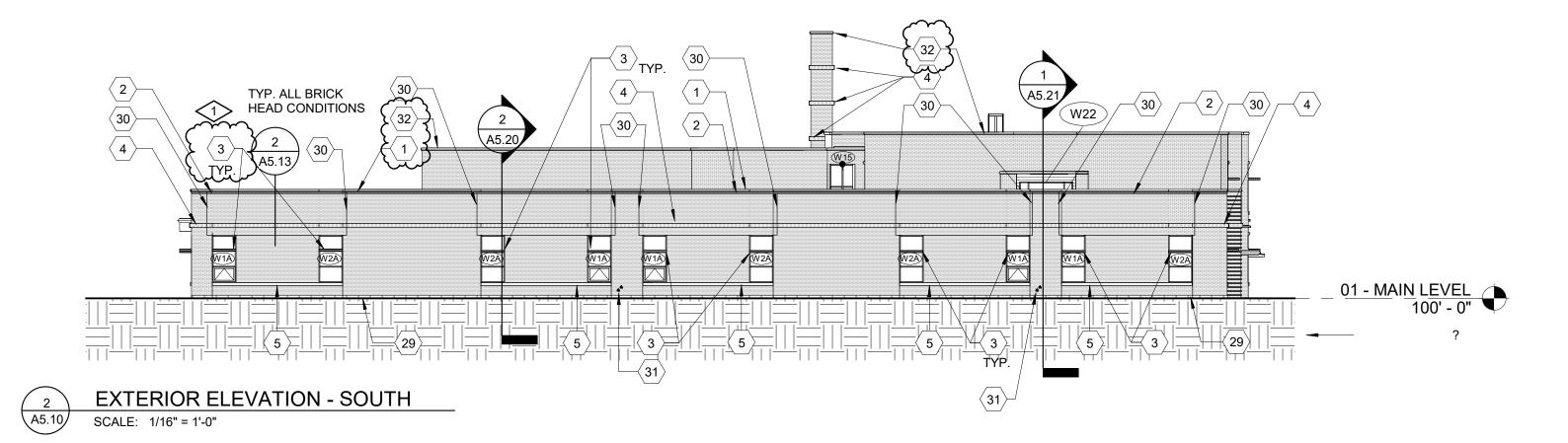
SHEET NUMBER PROJECT NUMBER 2022006.1 PROJECT DATE A3.05 AUGUST 23, 2023

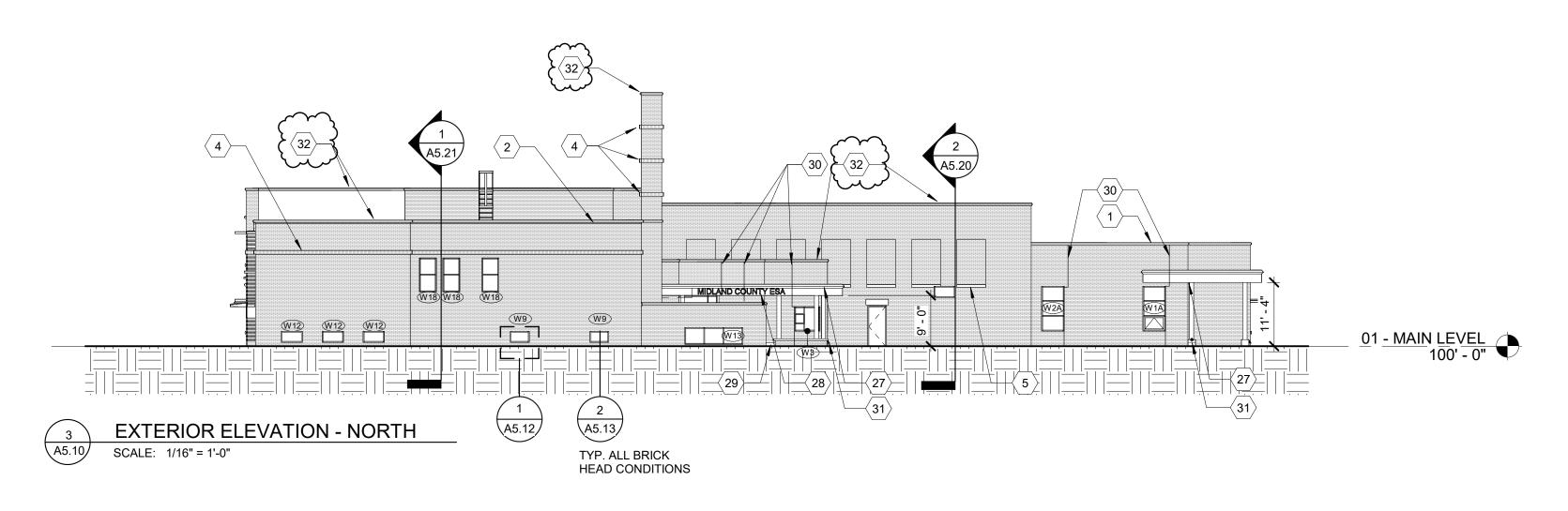
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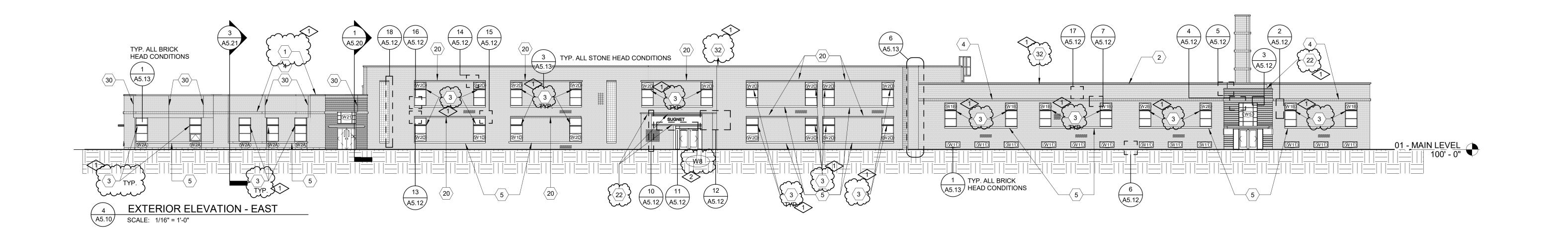












# (#) MATERIAL KEYNOTES

# 1 CAST STONE PARAPHET CAP 2 1.5" BRICK PROTRUSION

- 3 FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLIONSBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS
- 4 1.5" BRICK PROTRUSION; SOLDIER COURSE 5 CAST STONE SILL
- 6 FOOTING AND FOUNDATION (SEE STRUCTURAL)
- 7 CONCRETE SLAB (SEE STRUCTURAL) 8 COMPACTED GRAINULAR FILL
- 9 DOOR (SEE SCHEDULE) 10 GLASS AND GLAZING SYSTEM
- 11 ALUMINUM FRAMING SYSTEM
- 12 FIXTURE AS OCCUR; RE: ELECTRICAL 14 REMOVE AND REPLACE ALL CRACKED OR SPALLED BRICK WITHIN THIS AREA WITH NEW.
- SEE GENERAL NOTE 1 FOR ALLOWANCE. 15 EXISTING MORTAR JOINS WITHIN AREA ARE CRACKED, LOOSE, MISSING, OPEN, OR GENERALLY DETERIORATED. REMOVE ALL
- IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1" AND REPOINT WITH NEW MORTAR. SEE GENERAL NOTE 3 FOR ALLOWANCE. 16 OPEN CRACK IN STONE. INJECT THE CRACK
- FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE OF THE STONE WITH A COLORED CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO THE ADJACENT SURFACES OF THE EXISTING STONE. SEE GENERAL NOTE 5 FOR ALLOWANCE.
- 17 REMOVED EXISTING SEALANT AND BACKER ROD (IF PRESENT) BETWEEN WINDOW OR FRAME, ÀND ADJACENT MASONRY. INSTALL NEW BACKER ROD AND SEALANT.
- 18 MASONRY CONTRACTOR SHALL OPEN AREAS INDICATED SIMILAR TO CONDITION [SEE DETAILS]. CONTRACTOR SHALL THEN PROVIDE ACCESS FOR ARCHITECT/ENGINEER TO REVIEW. ONCE REVIEW IS COMPLETE THEN CONTRACTOR SHALL INFILL WITH EXISTING KIND
- MATERIALS. 19 SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND WALL FLASHING AND REPLACE BRICK. SEE
- FLASHING AND INSTALL NEW LINTEL AND THRU GENERAL NOTE TO 3, 4-FOR ALLOWNACES. SEE DETAIL 1/A5.13 2/A5.13. 20 SALVAGE STONE HEADER AND ONE COURSE OF
- BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND BRICK. SEE GENERAL NOTE 1,3,4,4,0R
- ALLOWANCES. SEE DETAIL 3/A5.13. 21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW
- BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13. 22 EXISTING LIMESTONE COPING PIECE TO BE 1 REMOVED AND SALVAGED FOR REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND
- FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH-OR
- REPLACED COPING. SEE DETAIL 7/A6.11. 1
  23 HATCHING INDICATES AREA OF BRICK WALL TO BE SALVAGED IN ORDER TO REPAIR AND FLASH
- 24 REMOVE EXISTING ABANDONED ANCHOR. INFILL
- CAVITY WITH MORTAR AND RESEAL. 25 RESEAL GAP WITH SILICONE AROUND EXISTING
- 26 INJECT CONCRETE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE WITH CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO ADJACENT EXISTING
- SURFACE. SEE GENERAL NOTE 6 FOR ALLOWANCE. 27 CANOPY
- 28 CAST ALUMINUM LETTERING 18" HIGH CENTERED IN FACIA.
- 29 LIMESTONE BASE COURSE
- 30 MASONRY CONTROL JOINT 31 LIMESTONE BASE COURSE
- REMOVE DIRT & STAINS. ALL MISALIGNED COPING TO BE REMOVED AND REINSTALLED TO MATCH EXISTING. ALL DETERIORATED MORTAR JOINTS AND SEALANT TO BE CLEANED AND REINSTALLED.

2	ADDENDUM NO. 2	09/08/23
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23
NO.	REVISION	DATE



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# **WTA** ARCHITECTS

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PROJECT TITLE

RENOVATION AND ADDITION:

MIDLAND COUNTY ESA

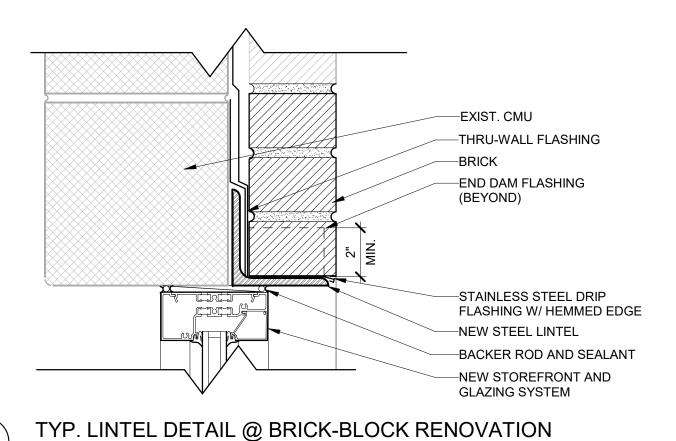
MIDLAND, MICHIGAN

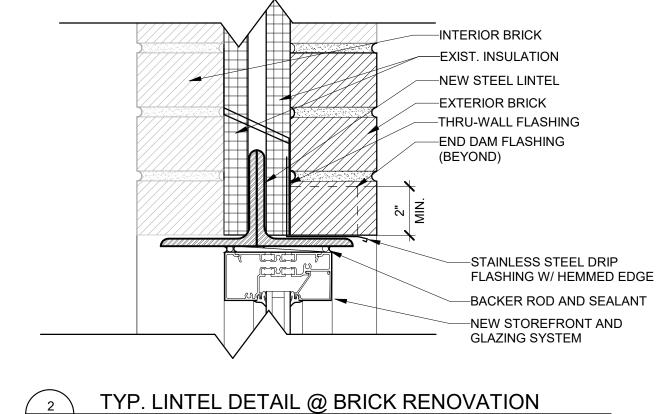
JMJ

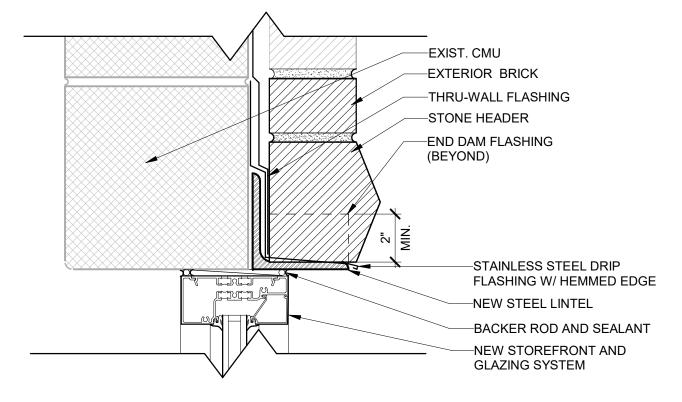
**EXTERIOR ELEVATIONS** 

SHEET NUMBER PROJECT NUMBER 2022006.1 PROJECT DATE

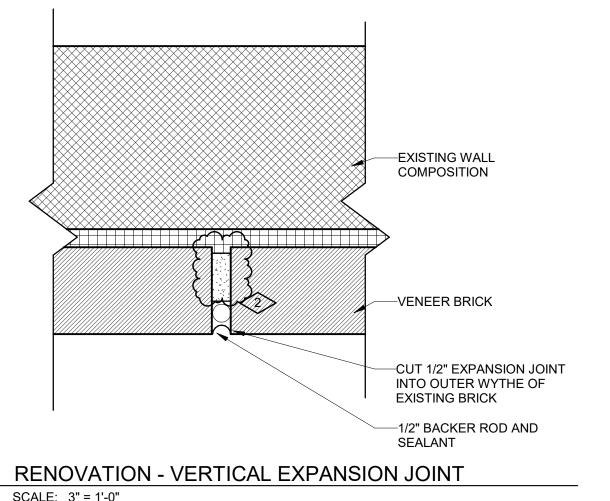
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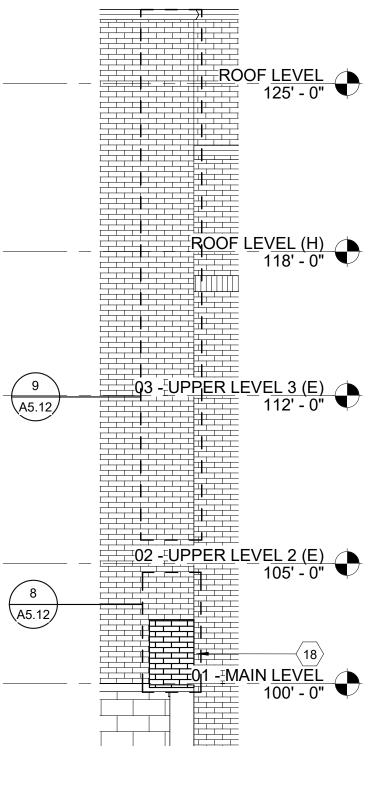


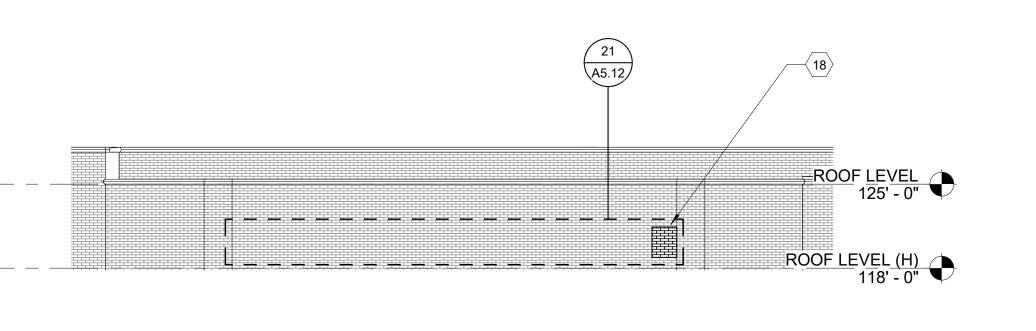


TYP. LINTEL DETAIL @ STONE HEADER RENOVATION SCALE: 3" = 1'-0"

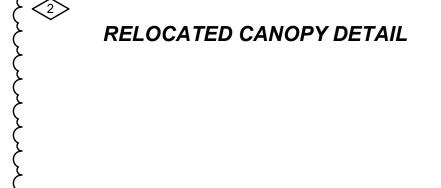


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EXPLORATORY DEMO DETAIL - WEST GYM WALL SCALE: 1/8" = 1'-0"



SCALE: 3" = 1'-0"



#### **EXTERIOR RESTORATION GENERAL NOTES:**

- 1. INCLUDE AN ALLOWANCE FOR THE REMOVAL AND REPLACEMENT OF ONE HUNDRED (100) INDIVIDUALLY DAMAGED BRICK UNITS. NEW BRICK SHALL MATCH EXISTING EXPOSED BRICK COURSING, COLOR, COLOR VARIATION WITHIN UNITS, SURFACE TEXTURE, SIZE, AND SHAPE. LOCATIONS SHALL BE FIELD REVIEWED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 14.
- 2. INCLUDE ALLOWANCE FOR THE REMOVAL AND REPLACEMENT OF ONE HUNDRED SQUARE FEET (100 SF) OF DAMAGED BRICK UNITS. NEW BRICK SHALL MATCH EXISTING EXPOSED BRICK COURSING, COLOR, COLOR VARIATION WITHIN UNITS, SURFACE TEXTURE, SIZE, AND SHAPE. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED, AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 14.
- 3. INCLUDE AN ALLOWANCE FOR THE REMOVAL AND REPOINTING OF ONE THOUSAND FIVE HUNDRED LINEAR FEET (1500') OF DAMAGED MORTAR JOINTS. DEPTH OF NEW MORTAR SHALL BE 1 INCH MINIMUM. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 15.
- 4. INCLUDE AN ALLOWANCE FOR THE REMOVAL AND REPLACEMENT OF SEVEN HUNDRED SEVENTY-FIVE FEET (775') OF STEEL ANGLE LINTEL. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 19, NO. 20.
- 5. INCLUDE AN ALLOWANCE FOR TEN (10) INJECTED EPOXY AND CEMENTITIOUS COMPOUND, AND STAINLESS-STEEL DOWEL, FOR STONE CRACK REPAIRS. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 16.
- 6. INCLUDE AN ALLOWANCE FOR TEN (10) INJECTED EPOXY AND CEMENTITIOUS COMPOUND CONCRETE FOUNDATION REPAIRS. LOCATIONS SHALL BE FIELD REVIEWED, VERIFIED AND DOCUMENTED WITH CONSTRUCTION MANAGER AND ARCHITECT PRIOR TO ANY WORK BEING PERFORMED. SEE EXTERIOR RESTORATION MATERIAL KEYNOTE NO. 26.
- 7. CONTRACTOR TO COORDINATE LOCATIONS OF ADDITIONAL PENETRATIONS THROUGH WALLS AND FLOORS NOT INDICATED ON ARCHITECTURAL DRAWINGS. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL. REFER TO STRUCTURAL DRAWINGS FOR LINTEL OR FRAMING REQUIREMENTS.
- 8. AFTER COMPLETION OF WORK, CONTRACTOR SHALL CLEAN ALL WINDOW UNITS WHERE CONSTRUCTION DUST, DIRT, AND MATERIAL RESIDUE, ETC. MAY BE PRESENT.
- 9. AT ALL LOCATIONS OF MASONRY REMOVAL AND REPLACEMENT, CONTRACTOR SHALL PROPERLY INSTALL SHORING TO SUPPORT EXISTING MASONRY TO REMAIN ABOVE OPENED AREA. FAILURE TO INSTALL ADEQUATE SHORING THAT RESULTS IN DAMAGE TO THE MASONRY TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE DAMAGED MASONRY AND/OR ADJACENT SURFACES, WALLS, ETC.
- 10. ALL ROOF AREAS AFFECTED BY CONSTRUCTION ACTIVITY SHALL BE PROTECTED WITH 3/4" PLYWOOD ON 2" RIGID SLOTTED INSULATION ON 6 MIL. PLASTIC SHEETING OVER THE EXISTING ROOFING. THIS SHALL INCLUDE ROOFS BOTH ABOVE AND BELOW THE AREAS UNDER CONSTRUCTION. DO NOT BLOCK EXISTING ROOF DRAINS, MAINTAIN POSITIVE DRAINAGE TO THEM, PROTECT DRAINS FROM DAMAGE.
- 11. COLOR SCHEDULE FOR NEW SEALANTS SHALL BE AS FOLLOWS:
  - VERTICAL BRICK TO BRICK = RED TO MATCH BRICK 2. HORIZONTAL BRICK OR STONE =
  - LIMESTONE (U.N.O) 3. BRICK TO STONE OR STONE TO STONE = LIMESTONE
- 12. PROVIDE ACTUAL IN WALL SEALANT MOCKUPS OF EACH TYPE AND COLOR FOR OWNER AND ARCHITECT'S REVIEW. MOCKUPS MAY BECOME PART OF THE PERMANENT WORK IF APPROVED.
- 13. AT LOCATIONS WHERE MORE THAN 2.67 SQ.FT. OF BRICK IS REMOVED AND REPLACED WITH NEW BRICK, OR UNLESS NOTED OTHERWISE, INSTALL NEW ADJUSTABLE STAINLESS STEEL BRICK TIES AT 24" O.C. HORIZONTALLY AND 16" O.C. VERTICALLY. SEE SPECIFICATIONS FOR TIES.
- 14. ALONG WITH CLEANING ALL AREAS OF THE NEW MASONRY INSTALLATIONS AND WHERE SPECIFIC STAINING IS NOTED TO BE CLEANED, CONTRACTOR SHALL CLEAN ALL AREAS OF EXISTING MASONRY BELOW AND ADJACENT TO THE WORK AREA THAT MAY BE AFFECTED BY RUN-OFF OR OVER-SPRAY AT NO ADDITIONAL COST TO OWNER.
- 15. ALL WELDING ON THIS PROJECT IS TO BE PERFORMED BY CERTIFIED WELDERS (NO EXCEPTIONS). INDIVIDUAL WELDERS' CERTIFICATES TO BE INCLUDED IN SUBMITTALS.
- 16. ALL WELDING WORK AND FLASHING PANS TO BE INSPECTED BY ARCHITECT, STRUCTURAL ENGINEER, AND/OR TESTING COMPANY HIRED BY OWNER PRIOR TO COVERING WITH NEW MASONRY.
- 17. WHERE ALL NEW FLASHINGS TERMINATE AGAINST A VERTICAL SURFACE - PROVIDE PROPER WATERTIGHT END DAMS THAT DIRECT WATER TO DRAINAGE WEEPS. STAINLESS STEEL PAN FLASHINGS SHALL HAVE EDGE TURNED UP WITH CORNERS SOLDERED WATERTIGHT. TYPICAL ALL
- 18. ALL PENETRATIONS SHALL BE SEALED WITH SEALANT AND BACKER ROD ON NEW AND EXISTING FACE BRICK.
- 19. ALL ABANDONED ANCHORS ON FACE BRICK SHALL BE REMOVED AND THE CAVITY INFILLED WITH
- 20. ALL WORK INDICATED ON DRAWINGS DOES NOT NECESSARILY HAVE A CORRESPONDING "EXTERIOR RESTORATION KEYNOTE" ASSIGNED TO IT AND MAY BE INDICATED BY "GENERAL NOTES"
- OR DETAILS. 21. CLEAN ALL EXISTING STONE SURFACES SALVAGED OR TO REMAIN.
- 22. CLEAN ALL EXISTING AND NEW BRICK.

# (#) MATERIAL KEYNOTES

- $\overline{\mathcal{A}}$ 1 CAST STONE PARAPHET CAP 24.5 BRICK PROTRUSION
- FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLIONSBY WINDOW MFR. RE:
- ELVATIONS FOR SPECIFIC LOCATIONS 4 1.5" BRICK PROTRUSION; SOLDIER COURSE
- 5 CAST STONE SILL 6 FOOTING AND FOUNDATION (SEE STRUCTURAL)
- 7 CONCRETE SLAB (SEE STRUCTURAL) 8 COMPACTED GRAINULAR FILL
- 9 DOOR (SEE SCHEDULE)
- 10 GLASS AND GLAZING SYSTEM 11 ALUMINUM FRAMING SYSTEM
- 12 FIXTURE AS OCCUR; RE: ELECTRICAL 14 REMOVE AND REPLACE ALL CRACKED OR
- SPALLED BRICK WITHIN THIS AREA WITH NEW. SEE GENERAL NOTE 1 FOR ALLOWANCE. 15 EXISTING MORTAR JOINS WITHIN AREA ARE
- CRACKED, LOOSE, MISSING, OPEN, OR GENERALLY DETERIORATED. REMOVE ALL
- IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1' AND REPOINT WITH NEW MORTAR. SEE GENERAL NOTE 3 FOR ALLOWANCE. 16 OPEN CRACK IN STONE. INJECT THE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE OF THE STONE WITH A COLORED CEMENTITIOUS COMPOUND IN ORDER
- SURFACES OF THE EXISTING STONE. SEE GENERAL NOTE 5 FOR ALLOWANCE. 17 REMOVED EXISTING SEALANT AND BACKER ROD (IF PRESENT) BETWEEN WINDOW OR FRAME.

TO BLEND THE REPAIR INTO THE ADJACENT

- AND ADJACENT MASONRY. INSTALL NEW BACKER ROD AND SEALANT. 18 MASONRY CONTRACTOR SHALL OPEN AREAS INDICATED SIMILAR TO CONDITION [SEE DETAILS]. CONTRACTOR SHALL THEN PROVIDE ACCESS FOR ARCHITECT/ENGINEER TO REVIEW. ONCE REVIEW IS COMPLETE THEN CONTRACTOR SHALL INFILL WITH EXISTING KIND
- MATERIALS. 19 SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING AND REPLACE BRICK. SEE
- GENERAL NOTE 1, 3,4 FOR ALLOWNACES. SEE DETAIL 1/A5.13. 2/A5.13. 1
- BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND
- BRICK. SEE GENERAL NOTE 1, 3, 4, FOR ALLOWANCES. SEE DETAIL 3/A5.13. 1

  21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13. 22 EXISTING LIMESTONE COPING PIECE TO BE
- REMOVED AND SALVAGED FOR REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH OF REPLACED COPING. SEE DETA 7/A6.11.
- 23 HATCHING INDICATES AREA OF BRICK WALL TO BE SALVAGED IN ORDER TO REPAIR AND FLASH EMBEDDED STEEL CONDITIONS.
- 24 REMOVE EXISTING ABANDONED ANCHOR, INFILL CAVITY WITH MORTAR AND RESEAL. 25 RESEAL GAP WITH SILICONE AROUND EXISTING
- 26 INJECT CONCRETE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE WITH CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO ADJACENT EXISTING
- ALLOWANCE. 27 CANOPY 28 CAST ALUMINUM LETTERING 18" HIGH

SURFACE. SEE GENERAL NOTE 6 FOR

- CENTERED IN FACIA. 29 LIMESTONE BASE COURSE
- 30 MASONRY CONTROL JOINT

REINSTALLED.

31 LIMESTONE BASE COURSE 32 EXISTING LIMESTONE COPING. ALL EXPOSED SURFACES TO BE CHEMICALLY CLEANED TO REMOVE DIRT & STAINS. ALL MISALIGNED COPING TO BE REMOVED AND REINSTALLED TO MATCH EXISTING. ALL DETERIORATED MORTAR JOINTS AND SEALANT TO BE CLEANED AND

2	ADDENDUM NO. 2	09/08/23
1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23
NO.	REVISION	DATE



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PROJECT TITLE

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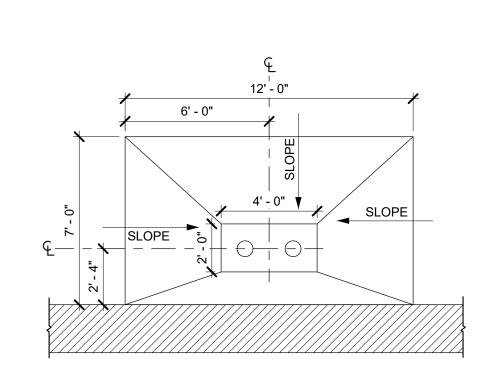
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

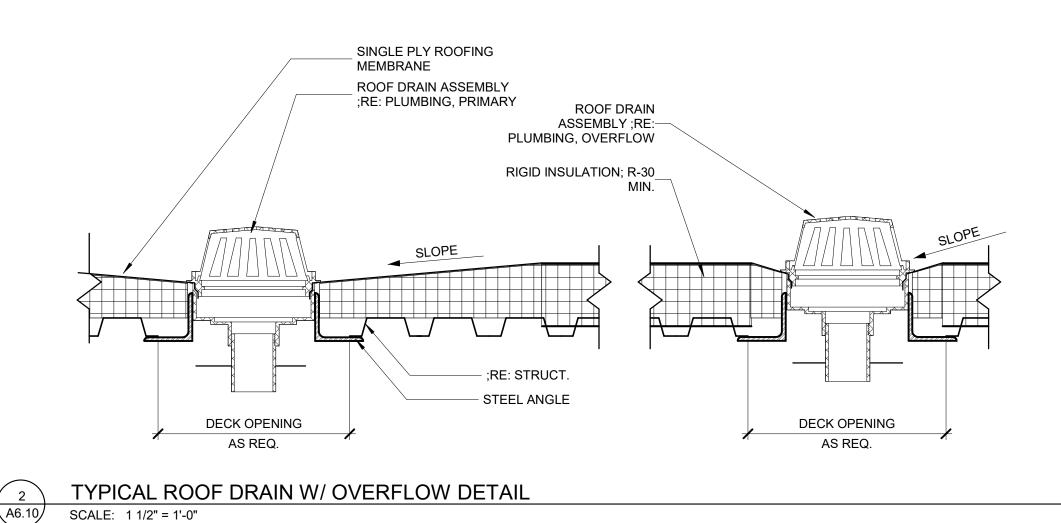
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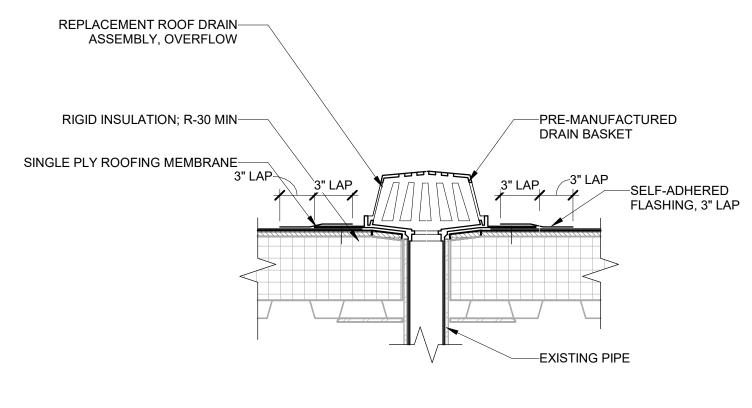
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A5.13 AUGUST 23, 2023 CHECKED BY

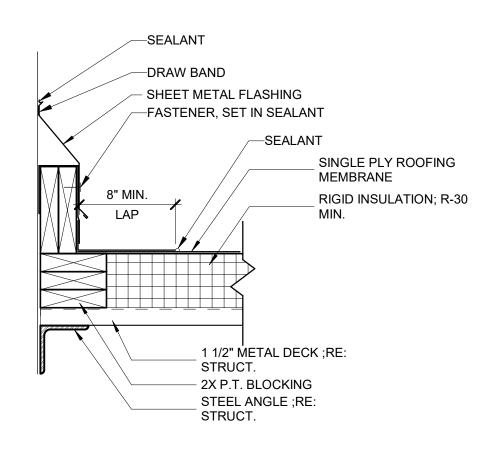


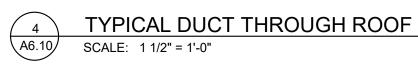


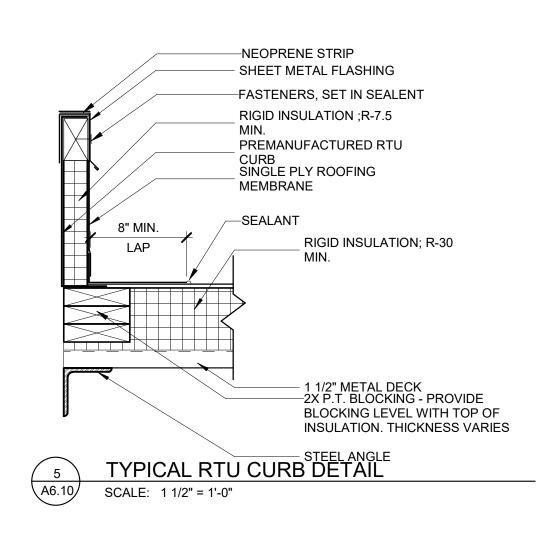


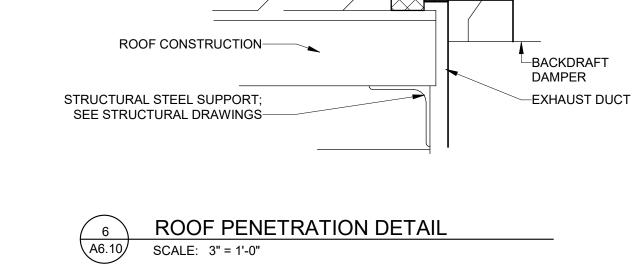








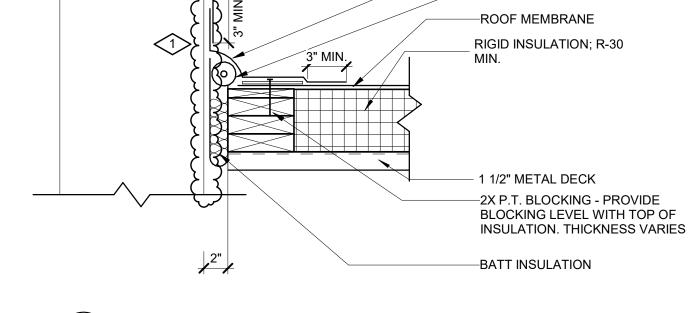




INSULATED ROOF CURB BY M.C. (PREFABRICATED); SEE

ROOFING AND FLASHNG BY G.C.-

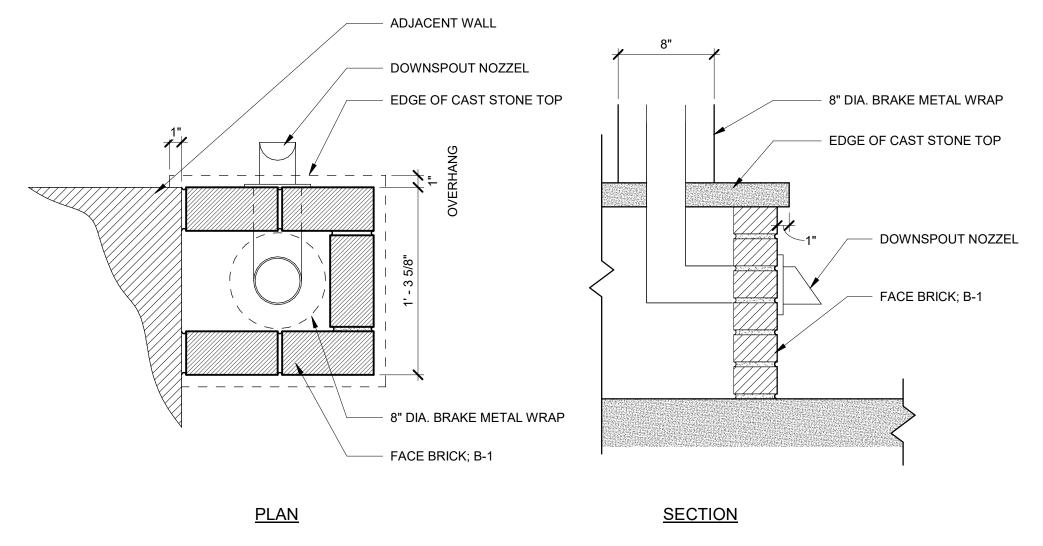
STRUCTURAL FOR CURB



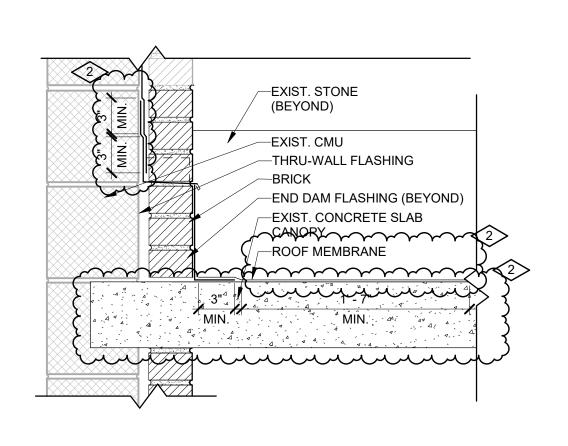
—METAL FLASHING

-FOAM ROD TUBING

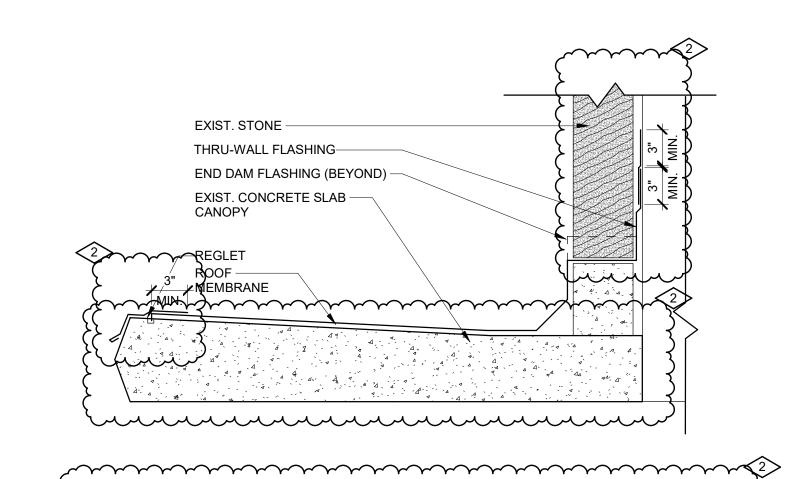
TYP. EXPANSION JOINT @ AREA B-AREA C 7 TYP. EXPANSI
A6.10 SCALE: 1 1/2" = 1'-0"











FRONT SUGNET ENTRANCE CANOPY @ STONE

10 FRONT SUGN A6.10 SCALE: 1 1/2" = 1'-0"

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ADDENDUM NO. 2

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09/08/23

08/31/23

08/23/23

DATE

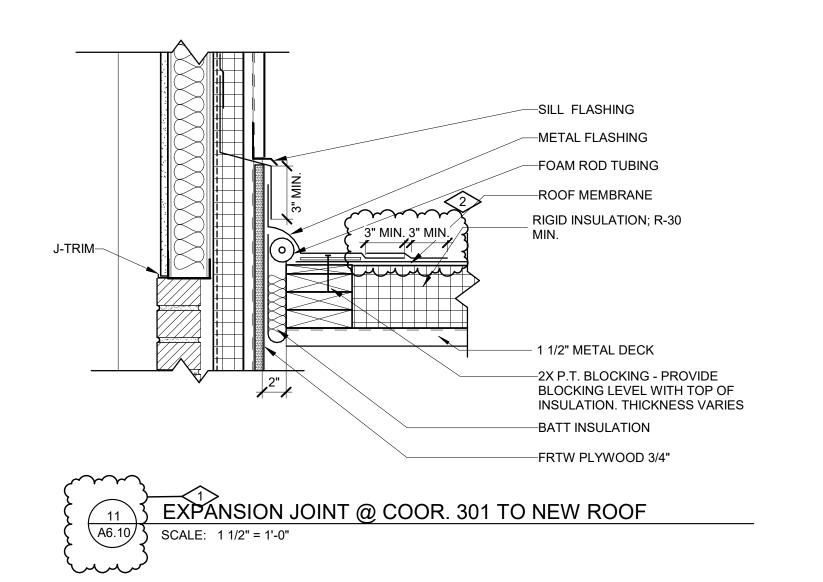
PROJECT TITLE RENOVATION AND ADDITION: MIDLAND COUNTY ESA

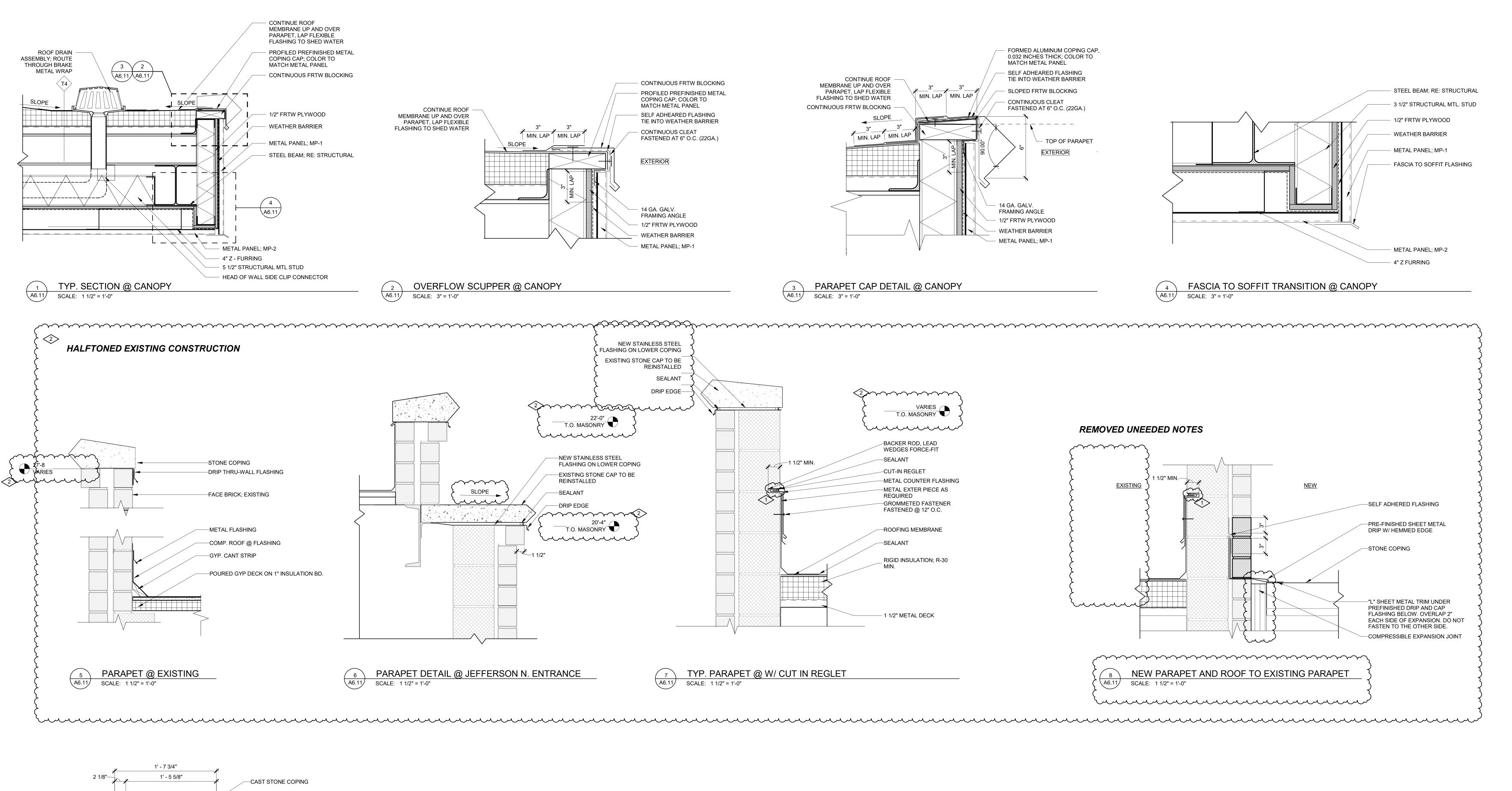
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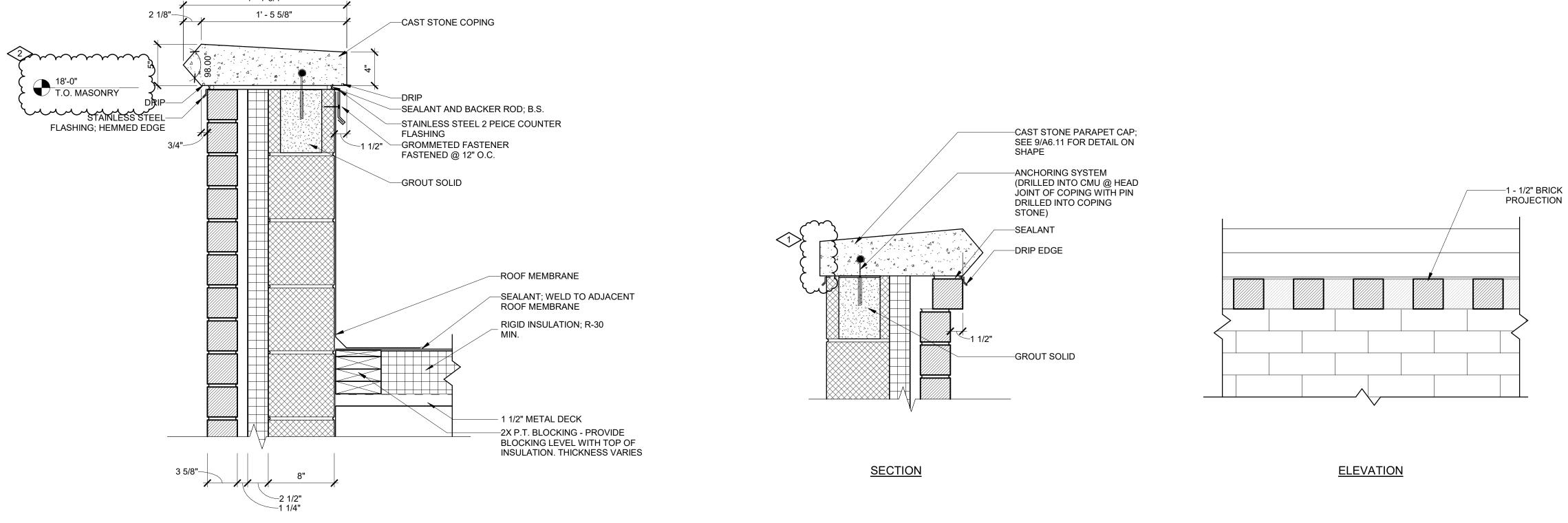
**ROOF DETAILS** 

SHEET TITLE

SHEET NUMBER PROJECT NUMBER 2022006.1 PROJECT DATE A6.10 AUGUST 23, 2023 CHECKED BY JMJ







BRICK DETAIL @ STONE COPING
SCALE: 1 1/2" = 1'-0"

9 TYP. PARAPET @ NEW ADDITION
A6.11 SCALE: 1 1/2" = 1'-0"

2 ADDENDUM NO. 2 09/08/23
1 ADDENDUM NO. 1 08/31/23
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MIDLAND, MICHIGAN

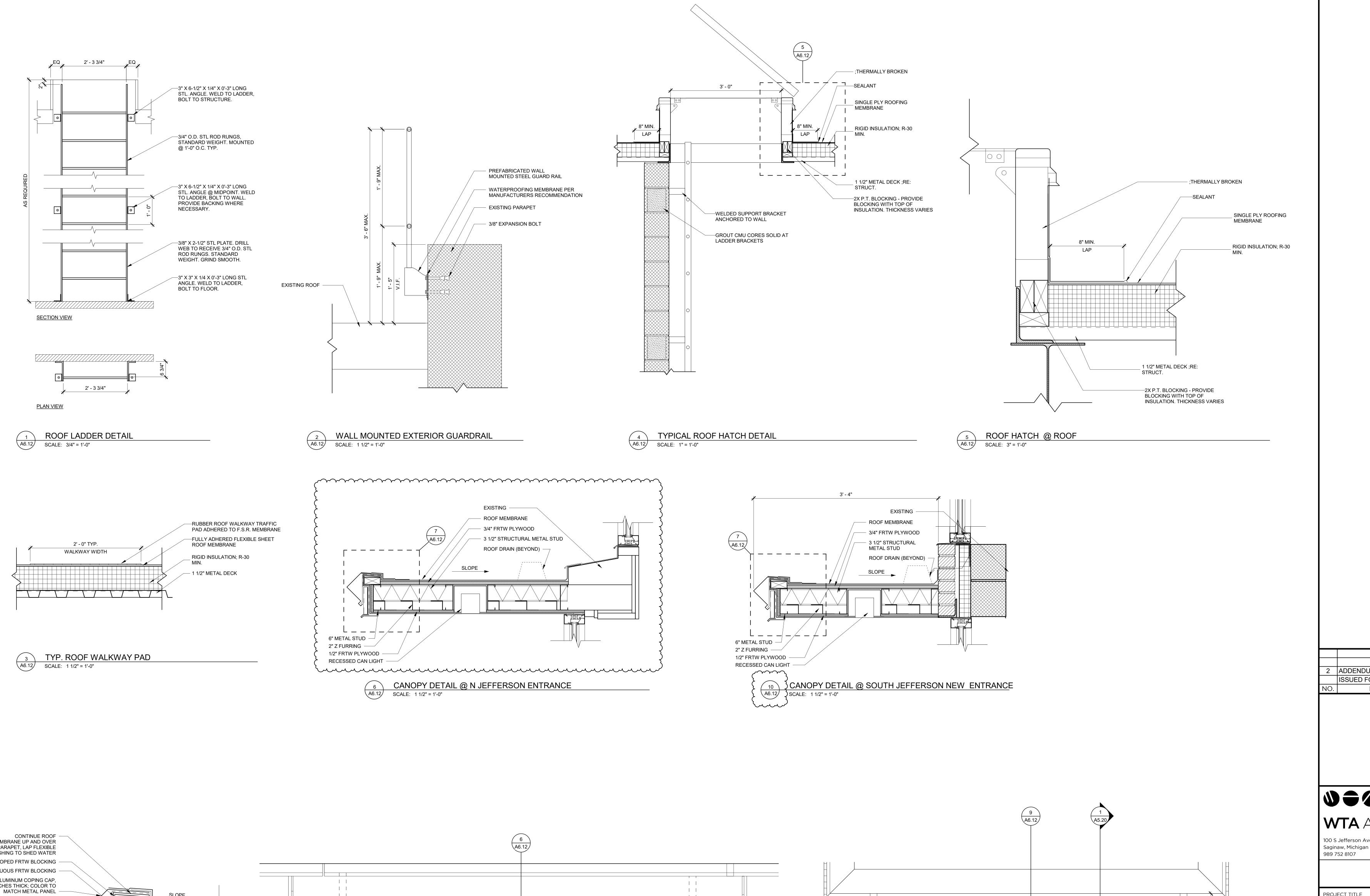
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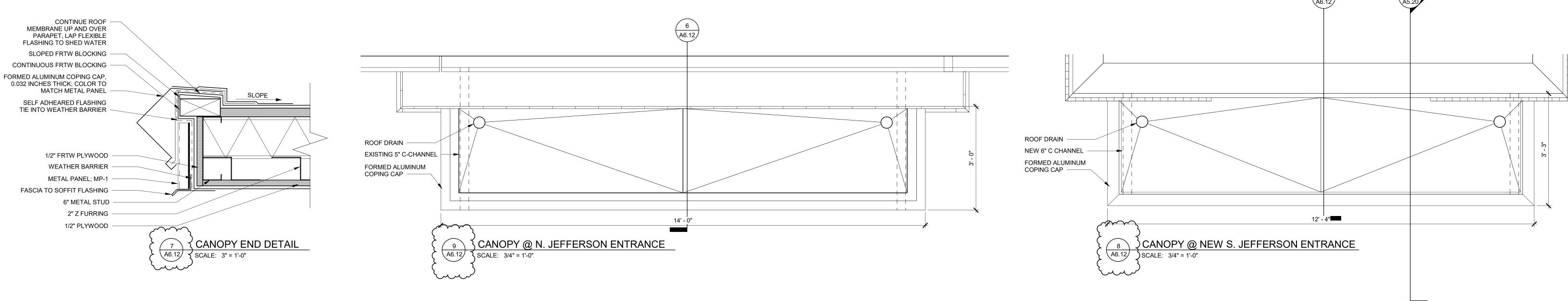
PROJECT NUMBER
2022006.1

PROJECT DATE
AUGUST 23, 2023

CHECKED BY JMJ A6.11

SHEET NUMBER





ADDENDUM NO. 2 09/08/23 ISSUED FOR BID 08/23/23 REVISION DATE

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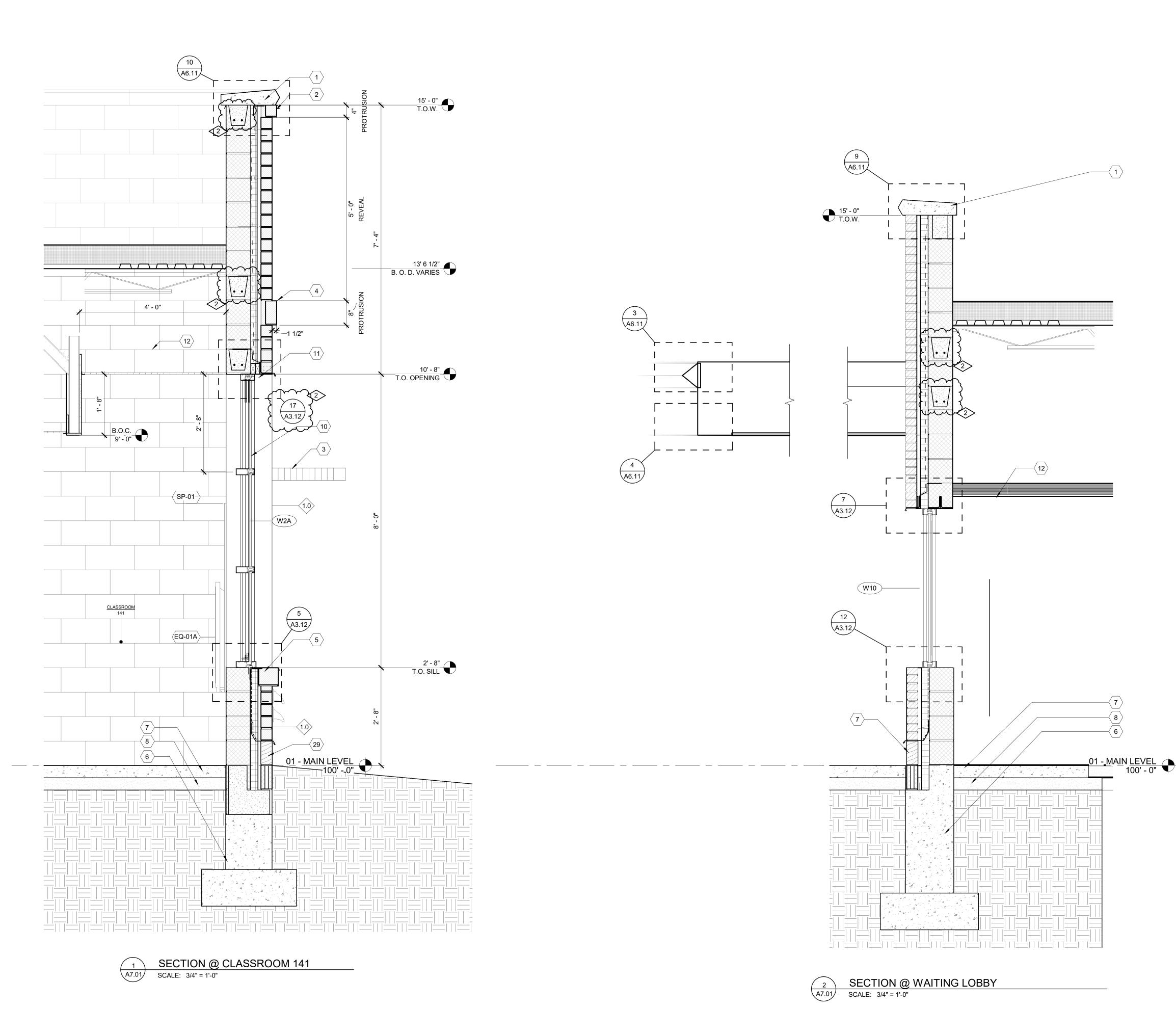
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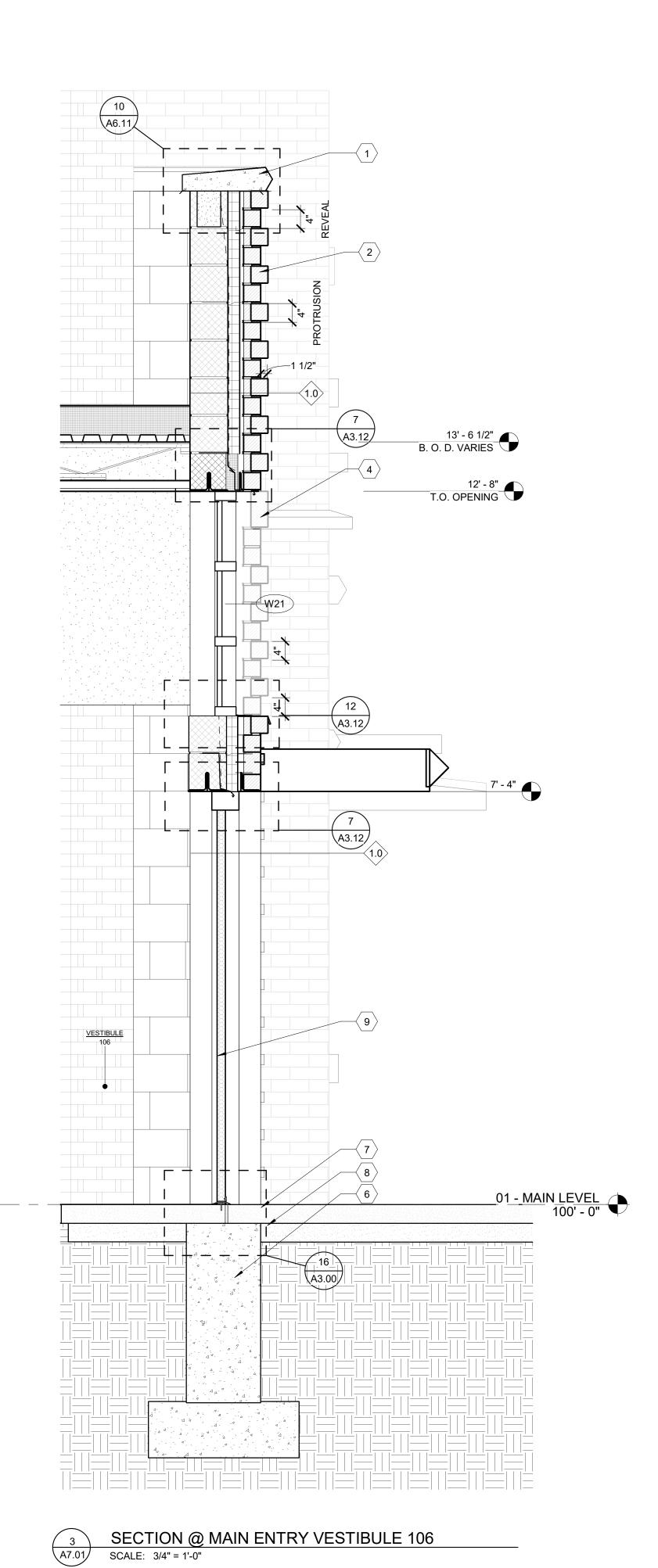
**ROOF DETAILS** 

JMJ

PROJECT NUMBER SHEET NUMBER 2022006.1 PROJECT DATE AUGUST 23, 2023 CHECKED BY

A6.12





(#) MATERIAL KEYNOTES 

1 CAST STONE PARAPHET CAP

3 FIXED SUNSCREEN SYSTEM MOUNTED TO

VERTICAL MULLIONSBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS

4 1.5" BRICK PROTRUSION; SOLDIER COURSE

5 CAST STONE SILL 6 FOOTING AND FOUNDATION (SEE STRUCTURAL)

7 CONCRETE SLAB (SEE STRUCTURAL) 8 COMPACTED GRAINULAR FILL 9 DOOR (SEE SCHEDULE)

10 GLASS AND GLAZING SYSTEM

11 ALUMINUM FRAMING SYSTEM 12 FIXTURE AS OCCUR; RE: ELECTRICAL 14 REMOVE AND REPLACE ALL CRACKED OR

SPALLED BRICK WITHIN THIS AREA WITH NEW. SEE GENERAL NOTE 1 FOR ALLOWANCE. 15 EXISTING MORTAR JOINS WITHIN AREA ARE CRACKED, LOOSE, MISSING, OPEN, OR GENERALLY DETERIORATED. REMOVE ALL

IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1" AND REPOINT WITH NEW MORTAR. SEE GENERAL NOTE 3 FOR ALLOWANCE. 16 OPEN CRACK IN STONE. INJECT THE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE OF THE STONE WITH A

TO BLEND THE REPAIR INTO THE ADJACENT SURFACES OF THE EXISTING STONE. SEE GENERAL NOTE 5 FOR ALLOWANCE. 17 REMOVED EXISTING SEALANT AND BACKER ROD (IF PRESENT) BETWEEN WINDOW OR FRAME, AND ADJACENT MASONRY. INSTALL NEW

COLORED CEMENTITIOUS COMPOUND IN ORDER

BACKER ROD AND SEALANT. 18 MASONRY CONTRACTOR SHALL OPEN AREAS INDICATED SIMILAR TO CONDITION [SEE DETAILS]. CONTRACTOR SHALL THEN PROVIDE ACCESS FOR ARCHITECT/ENGINEER TO REVIEW. ONCE REVIEW IS COMPLETE THEN CONTRACTOR SHALL INFILL WITH EXISTING KIND

19 SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING AND REPLACE BRICK. SEE

GENERAL NOTE 1.3-4 FOR ALLOWNACES. SEE DETAIL 1/A5.13. 2/A5.13. 20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND

BRICK. SEE GENERAL NOTE 1, 3, 4, FOR ALLOWANCES. SEE DETAIL (3/A5.13.) 21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13.

22 EXISTING LIMESTONE COPING PIECE TO BE REMOVED AND SALVAGED FOR REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH, OF REPLACED COPING. SEE DETAIL 7/A6.11.

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24 REMOVE EXISTING ABANDONED ANCHOR. INFILL CAVITY WITH MORTAR AND RESEAL. 25 RESEAL GAP WITH SILICONE AROUND EXISTING

26 INJECT CONCRETE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE WITH CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO ADJACENT EXISTING SURFACE. SEE GENERAL NOTE 6 FOR

28 CAST ALUMINUM LETTERING 18" HIGH CENTERED IN FACIA.

29 LIMESTONE BASE COURSE

30 MASONRY CONTROL JOINT

ALLOWANCE.

31 LIMESTONE BASE COURSE

(32 EXISTING LIMESTONE COPING. ALL EXPOSED

SURFACES TO BE CHEMICALLY CLEANED TO

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JOINTS AND SEALANT TO BE CLEANED AND mmmmm

ADDENDUM NO. 2 ADDENDUM NO. 1 ISSUED FOR BID 08/23/23 REVISION DATE



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PROJECT TITLE

RENOVATION AND ADDITION:

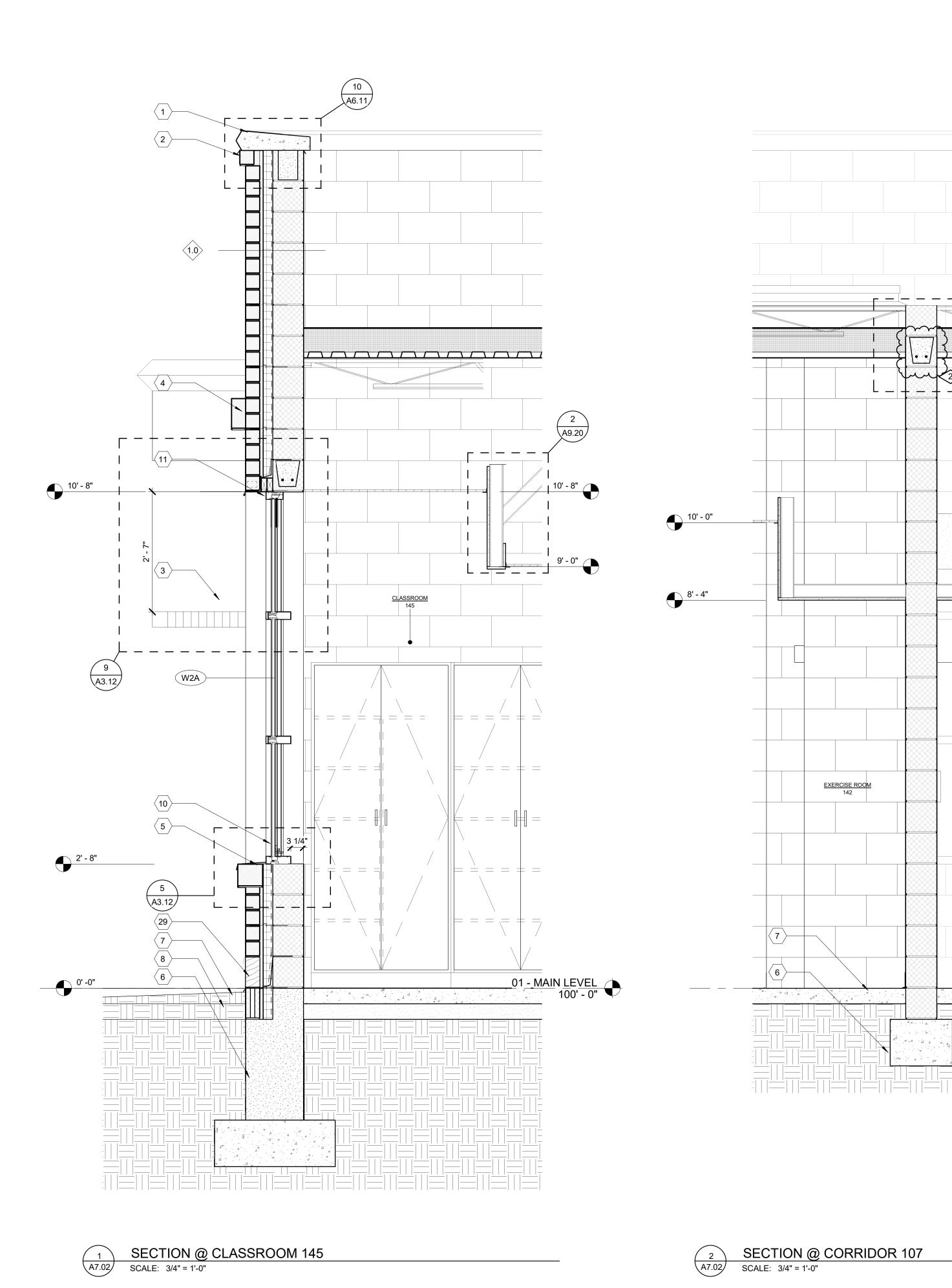
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

WALL SECTIONS

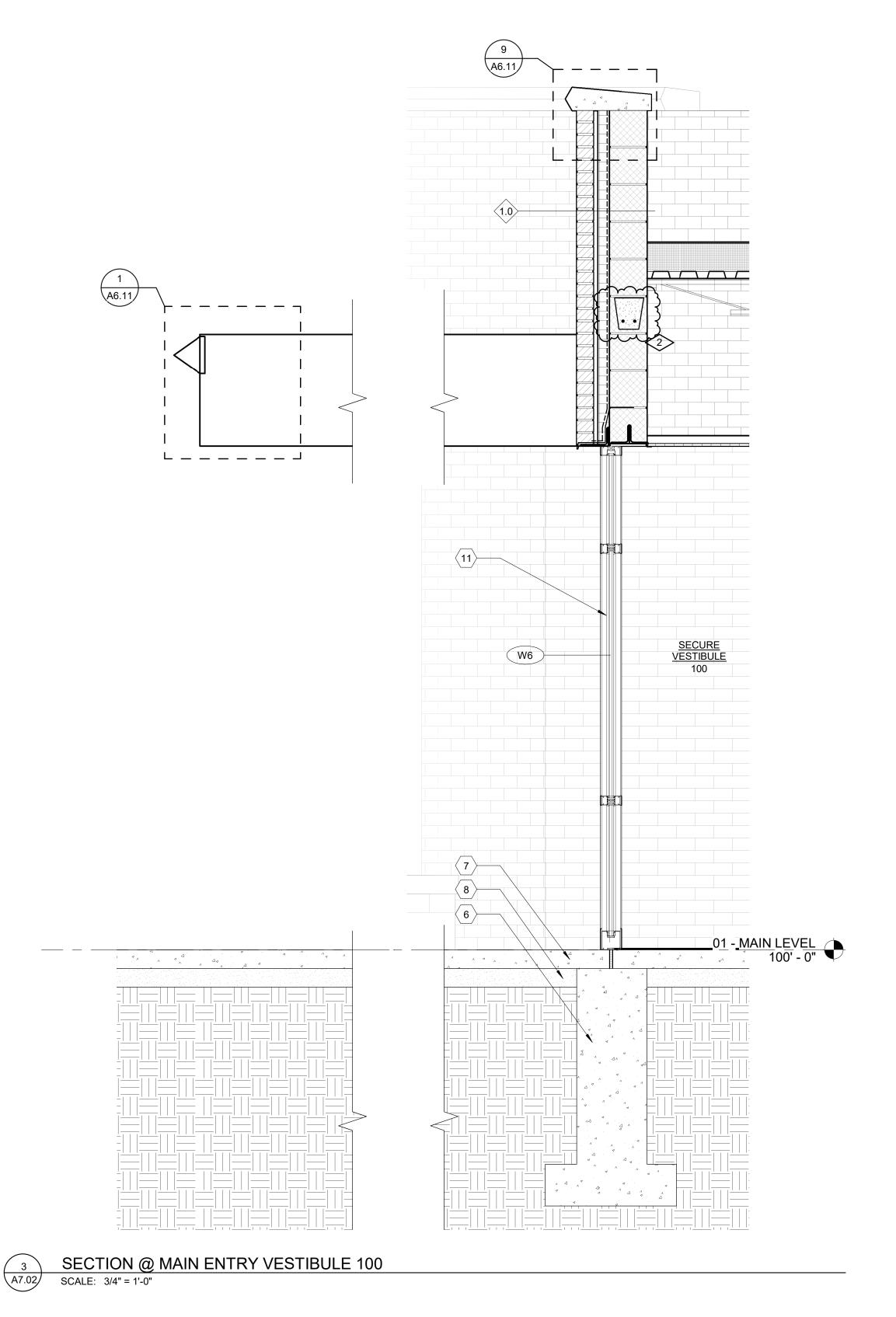
PROJECT NUMBER SHEET NUMBER 2022006.1 PROJECT DATE A7.01

AUGUST 23, 2023 CHECKED BY Checker



A7.10

01 - MAIN LEVEL 100' - 0"



# MATERIAL KEYNOTES

1 CAST STONE PARAPHET CAP

1 CAST STONE PARAPHET CAP

2 1.5"BRICK PROTRUSION

3 FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLIONSBY WINDOW MFR. RE:

ELVATIONS FOR SPECIFIC LOCATIONS
4 1.5" BRICK PROTRUSION; SOLDIER COURSE

7 CONCRETE SLAB (SEE STRUCTURAL)

12 FIXTURE AS OCCUR; RE: ELECTRICAL14 REMOVE AND REPLACE ALL CRACKED OR

8 COMPACTED GRAINULAR FILL

9 DOOR (SEE SCHEDULE)10 GLASS AND GLAZING SYSTEM11 ALUMINUM FRAMING SYSTEM

6 FOOTING AND FOUNDATION (SEE STRUCTURAL)

SPALLED BRICK WITHIN THIS AREA WITH NEW.
SEE GENERAL NOTE 1 FOR ALLOWANCE.

15 EXISTING MORTAR JOINS WITHIN AREA ARE
CRACKED, LOOSE, MISSING, OPEN, OR
GENERALLY DETERIORATED. REMOVE ALL
IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1"
AND REPOINT WITH NEW MORTAR. SEE
GENERAL NOTE 3 FOR ALLOWANCE.

16 OPEN CRACK IN STONE. INJECT THE CRACK
FULL WITH EPOXY AND PATCH/FINISH THE
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COLORED CEMENTITIOUS COMPOUND IN ORDER
TO BLEND THE REPAIR INTO THE ADJACENT
SURFACES OF THE EXISTING STONE. SEE
GENERAL NOTE 5 FOR ALLOWANCE.

17 REMOVED EXISTING SEALANT AND BACKER ROD (IF PRESENT) BETWEEN WINDOW OR FRAME, AND ADJACENT MASONRY. INSTALL NEW

18 MASONRY CONTRACTOR SHALL OPEN AREAS INDICATED SIMILAR TO CONDITION [SEE DETAILS]. CONTRACTOR SHALL THEN PROVIDE ACCESS FOR ARCHITECT/ENGINEER TO REVIEW.

19 SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING AND REPLACE BRICK. SEE GENERAL NOTE 1, 3, 4 FOR ALLOWNACES. SEE DETAIL 1/A5.13. 2/A5.13.
 20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND

CONTRACTOR SHALL INFILL WITH EXISTING KIND

FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND

BRICK. SEE GENERAL NOTE 1 3 4 FOR ALLOWANCES. SEE DETAIL (3/A5.13. ) 1
21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL

EXPANSION JOINT FREE OF MASONRY AND

22 EXISTING LIMESTONE COPING PIECE TO BE 1

REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH OF REPLACED COPING. SEE DETAIL 7/A6.11.

23 HATCHING INDICATES AREA OF BRICK WALL TO BE SALVAGED IN ORDER TO REPAIR AND FLASH

24 REMOVE EXISTING ABANDONED ANCHOR. INFILL

25 RESEAL GAP WITH SILICONE AROUND EXISTING

AND PATCH/FINISH THE EXTERIOR SURFACE
WITH CEMENTITIOUS COMPOUND IN ORDER TO
BLEND THE REPAIR INTO ADJACENT EXISTING
SURFACE. SEE GENERAL NOTE 6 FOR

~34~HMESTQHE/BASE/GOURSE/~~~~~

32 EXISTING LIMESTONE COPING. ALL EXPOSED SURFACES TO BE CHEMICALLY CLEANED TO REMOVE DIRT & STAINS. ALL MISALIGNED COPING TO BE REMOVED AND REINSTALLED TO

Yummunum.

MATCH EXISTING. ALL DETERIORATED MORTAR
JOINTS AND SEALANT TO BE CLEANED AND

09/08/23

08/31/23

08/23/23

DATE

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SHEET NUMBER

26 INJECT CONCRETE CRACK FULL WITH EPOXY

REMOVED AND SALVAGED FOR

EMBEDDED STEEL CONDITIONS.

ALLOWANCE.

29 LIMESTONE BASE COURSE

30 MASONRY CONTROL JOINT

REINSTALLED.

ADDENDUM NO. 2

ADDENDUM NO. 1

ISSUED FOR BID

989 752 8107

PROJECT TITLE

100 S Jefferson Ave, Suite 601 Saginaw, Michigan 48607

RENOVATION AND ADDITION:

MIDLAND, MICHIGAN

PROJECT NUMBER

PROJECT DATE

2022006.1

WALL SECTIONS

REVISION

**WTA** ARCHITECTS

MIDLAND COUNTY ESA

27 CANOPY

CAVITY WITH MORTAR AND RESEAL.

28 CAST ALUMINUM LETTERING 18" HIGH CENTERED IN FACIA.

MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAIL 4/A5.13.

BACKER ROD AND SEALANT.

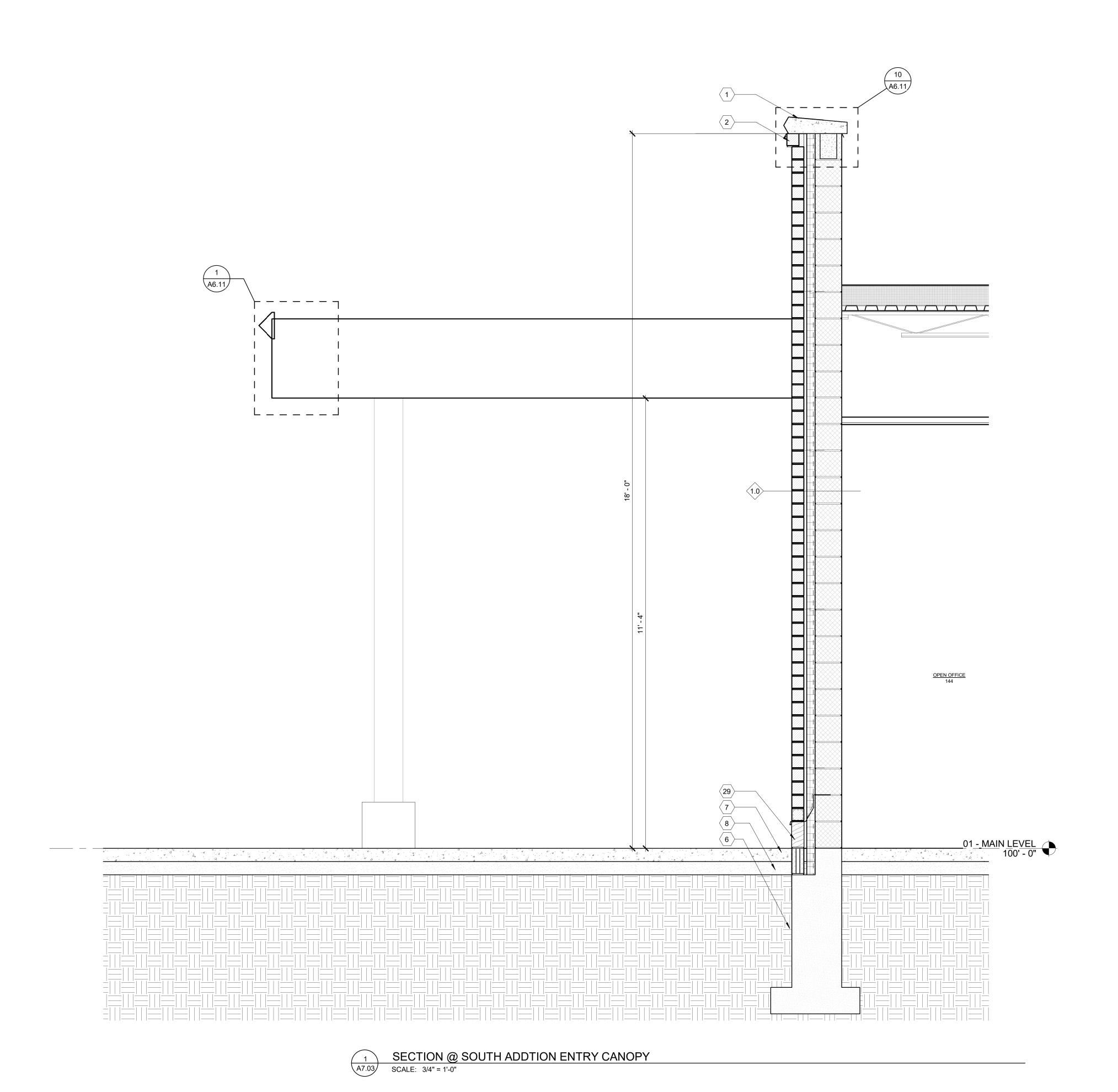
MATERIALS.

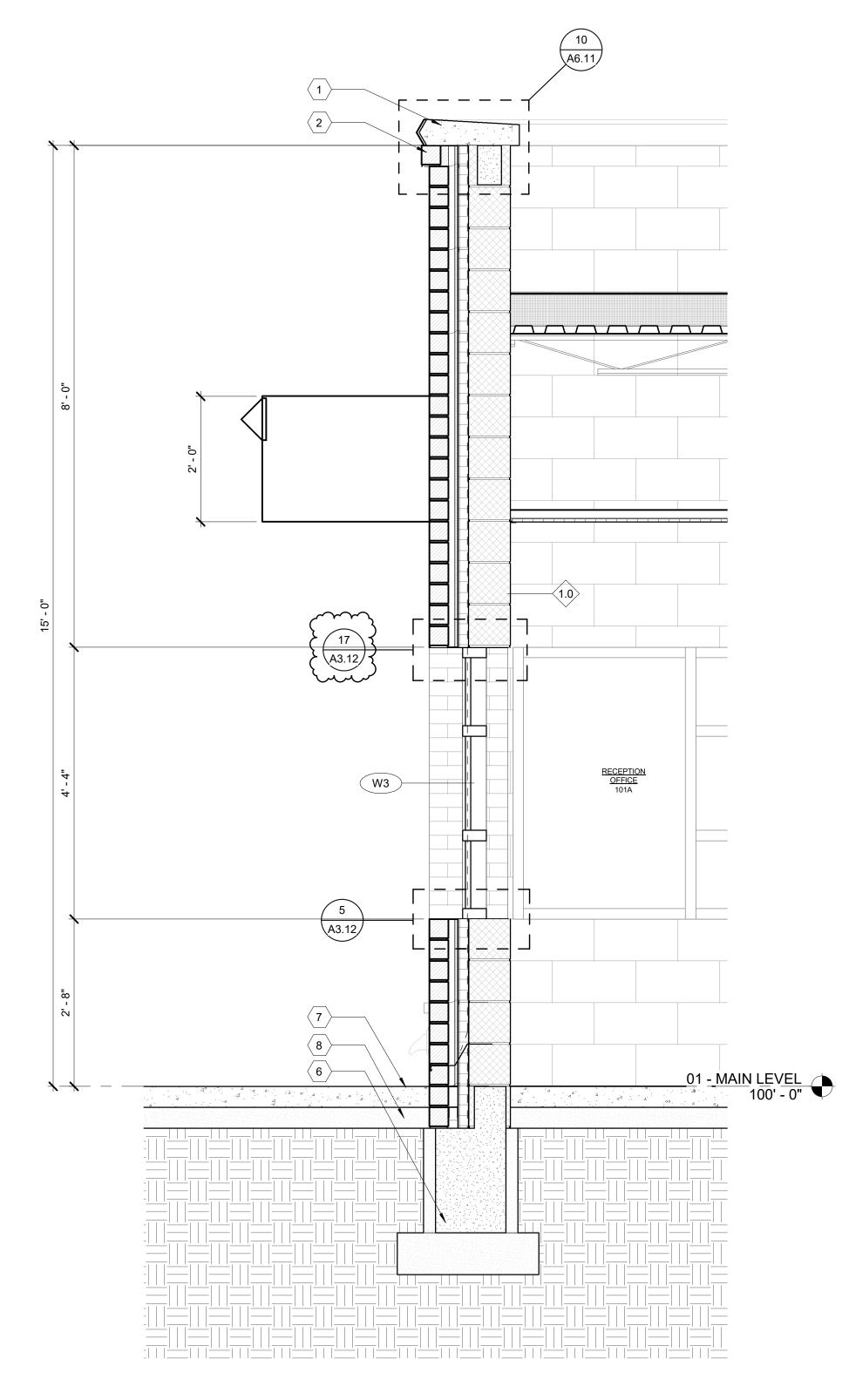
ONCE REVIEW IS COMPLETE THEN

5 CAST STONE SILL

AUGUST 23, 2023

CHECKED BY
Checker





SECTION @ MAIN ENTRY CANOPY

SCALE: 3/4" = 1'-0"

## (#) MATERIAL KEYNOTES

- 1 CAST STONE PARAPHET CAP 2-1.5"BRICK-PROTRUSION-1)
- 3 FIXED SUNSCREEN SYSTEM MOUNTED TO VERTICAL MULLIONSBY WINDOW MFR. RE:
- ELVATIONS FOR SPECIFIC LOCATIONS 4 1.5" BRICK PROTRUSION; SOLDIER COURSE 5 CAST STONE SILL
- 6 FOOTING AND FOUNDATION (SEE STRUCTURAL) 7 CONCRETE SLAB (SEE STRUCTURAL)
- 8 COMPACTED GRAINULAR FILL 9 DOOR (SEE SCHEDULE)
- 10 GLASS AND GLAZING SYSTEM
- 11 ALUMINUM FRAMING SYSTEM 12 FIXTURE AS OCCUR; RE: ELECTRICAL
- 14 REMOVE AND REPLACE ALL CRACKED OR SPALLED BRICK WITHIN THIS AREA WITH NEW. SEE GENERAL NOTE 1 FOR ALLOWANCE.
- 15 EXISTING MORTAR JOINS WITHIN AREA ARE CRACKED, LOOSE, MISSING, OPEN, OR GENERALLY DETERIORATED. REMOVE ALL IDENTIFIED MORTAR TO MINIMUM DEPTH OF 1" AND REPOINT WITH NEW MORTAR. SEE
- GENERAL NOTE 3 FOR ALLOWANCE. 16 OPEN CRACK IN STONE. INJECT THE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE OF THE STONE WITH A COLORED CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO THE ADJACENT
- SURFACES OF THE EXISTING STONE. SEE GENERAL NOTE 5 FOR ALLOWANCE. 17 REMOVED EXISTING SEALANT AND BACKER ROD (IF PRESENT) BETWEEN WINDOW OR FRAME, ÀND ADJACENT MASONRY. INSTALL NEW
- BACKER ROD AND SEALANT. 18 MASONRY CONTRACTOR SHALL OPEN AREAS INDICATED SIMILAR TO CONDITION [SEE DETAILS]. CONTRACTOR SHALL THEN PROVIDE ACCESS FOR ARCHITECT/ENGINEER TO REVIEW. ONCE REVIEW IS COMPLETE THEN CONTRACTOR SHALL INFILL WITH EXISTING KIND
- 19 SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING AND REPLACE BRICK. SEE
- GENERAL NOTE 1, 3, 4 FOR ALLOWNACES. SEE DETAIL (1/A5.13, 2/A5.13. )

  20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND
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- DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING FLASHING ALONG THE ENTIRE LENGTH OF REPLACED COPING. SEE DETAIL 7/A6.11.

23 HATCHING INDICATES AREA OF BRICK WALL TO

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- 25 RESEAL GAP WITH SILICONE AROUND EXISTING
- 26 INJECT CONCRETE CRACK FULL WITH EPOXY AND PATCH/FINISH THE EXTERIOR SURFACE WITH CEMENTITIOUS COMPOUND IN ORDER TO BLEND THE REPAIR INTO ADJACENT EXISTING

SURFACE. SEE GENERAL NOTE 6 FOR

- 27 CANOPY 28 CAST ALUMINUM LETTERING 18" HIGH CENTERED IN FACIA.
- 29 LIMESTONE BASE COURSE

ALLOWANCE.

- 30 MASONRY CONTROL JOINT ~\$\~\\MESTQNE\BASECQUERSE\~\~\~\ 32 EXISTING LIMESTONE COPING. ALL EXPOSED SURFACES TO BE CHEMICALLY CLEANED TO REMOVE DIRT & STAINS. ALL MISALIGNED . COPING TO BE REMOVED AND REINSTALLED TO
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MATCH EXISTING. ALL DETERIORATED MORTAR
JOINTS AND SEALANT TO BE CLEANED AND

1	ADDENDUM NO. 1	08/31/23
	ISSUED FOR BID	08/23/23
NO.	REVISION	DATE



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PROJECT TITLE

RENOVATION AND ADDITION:

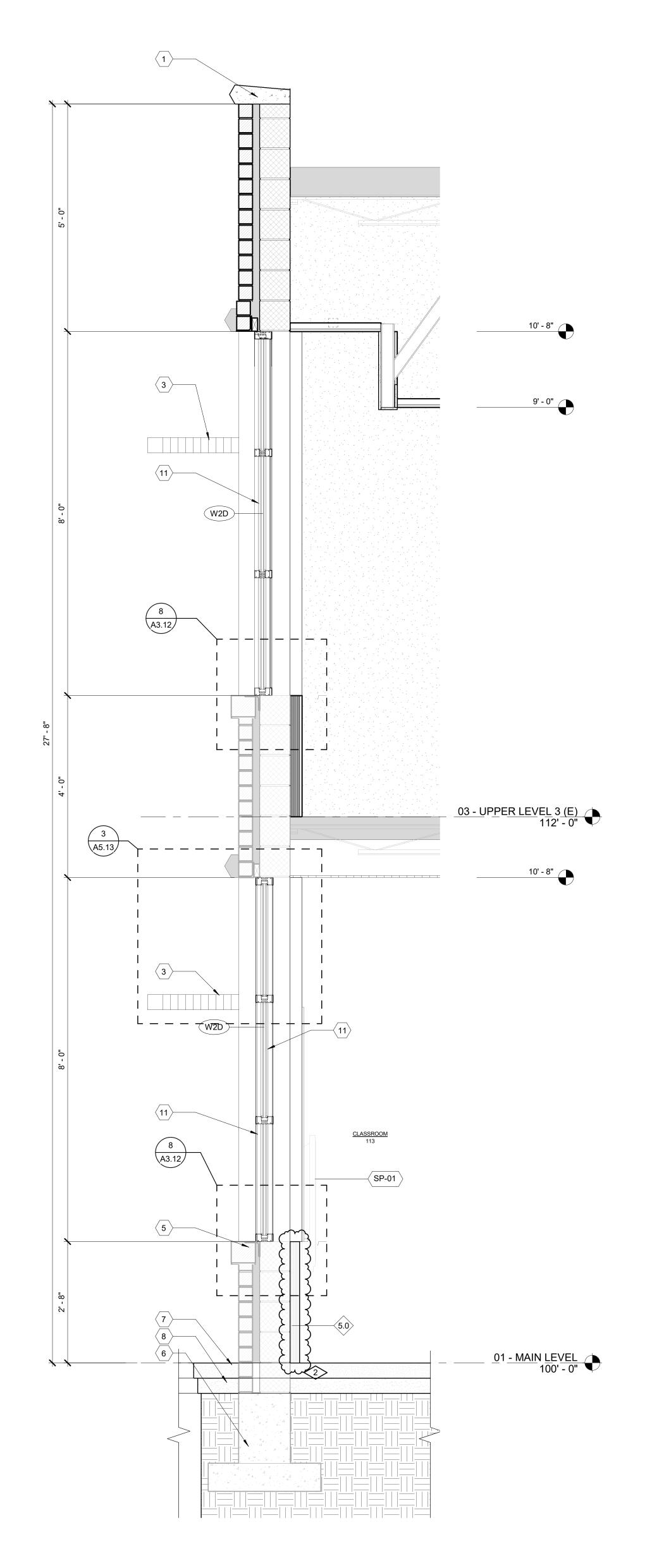
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

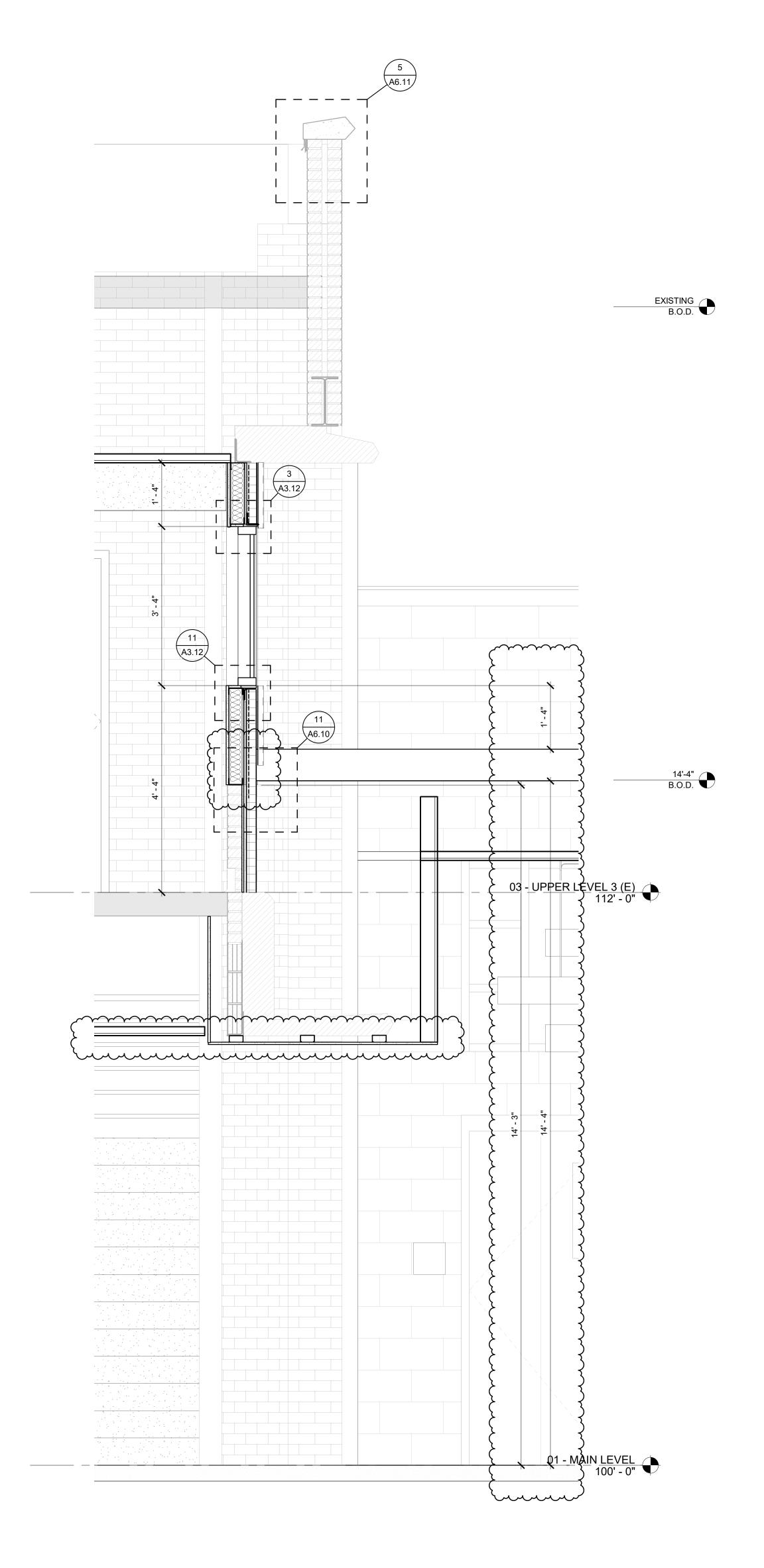
WALL SECTIONS

SHEET NUMBER PROJECT NUMBER 2022006.1 PROJECT DATE

A7.03 AUGUST 23, 2023 CHECKED BY JMJ



SECTION @ CLASSROOM 113 FURRING UP TO WINDOW SILL





## (#) MATERIAL KEYNOTES

- 1 CAST STONE PARAPHET CAP 2 1.5 BRICKPROTRUSION
- 3 FIXED SUNSCREEN SYSTEM MOUNTED TO
- VERTICAL MULLIONSBY WINDOW MFR. RE: ELVATIONS FOR SPECIFIC LOCATIONS
- 4 1.5" BRICK PROTRUSION; SOLDIER COURSE 5 CAST STONE SILL
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EXTERIOR SURFACE OF THE STONE WITH A COLORED CEMENTITIOUS COMPOUND IN ORDER

- TO BLEND THE REPAIR INTO THE ADJACENT SURFACES OF THE EXISTING STONE. SEE GENERAL NOTE 5 FOR ALLOWANCE. 17 REMOVED EXISTING SEALANT AND BACKER ROD
- (IF PRESENT) BETWEEN WINDOW OR FRAME. ÀND ADJACENT MASONRY. INSTALL NEW BACKER ROD AND SEALANT.
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- 19 SALVAGE A MINIMUM OF THREE COURSES OF BRICK ABOVE TOP OF WINDOW TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING AND REPLACE BRICK. SEE GENERAL NOTE 1, 3, 4 FOR ALLOWNACES. SEE DETAIL 1/A5.13. 2/A5.13. 1
- 20 SALVAGE STONE HEADER AND ONE COURSE OF BRICK ABOVE HEADER TO EXPOSE EXISTING LINTEL. REMOVE EXISTING LINTEL AND FLASHING AND INSTALL NEW LINTEL AND THRU WALL FLASHING. REINSTALL HEADER AND
- BRICK. SEE GENERAL NOTE 1, 3, 4, FOR ALLOWANCES. SEE DETAIL 3/A5. 3. 21 SAW CUT BRICK, INSTALL A NEW 1/2" VERTICAL EXPANSION JOINT FREE OF MASONRY AND MORTAR FULL DEPTH. FILL JOINT WITH NEW BACKER ROD AND SEALANT. SEE DETAI (4/A5.13.
- 22 EXISTING LIMESTONE COPING PIECE TO BE 1 REMOVED AND SALVAGED FOR REINSTALLATION. ALL EXPOSED SURFACES SHALL BE CHEMICALLY CLEANED TO REMOVE DIRT AND STAINS. ALL EXISTING MORTAR AND FLASHING SHALL BE REMOVED FROM HEAD AND BED JOINT SURFACES. INSTALL NEW COPING
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- 27 CANOPY 28 CAST ALUMINUM LETTERING 18" HIGH CENTERED IN FACIA.
- 29 LIMESTONE BASE COURSE
- 30 MASONRY CONTROL JOINT 31 LIMESTONE BASE COURSE

ALLOWANCE.

REMOVE DIRT & STAINS. ALL MISALIGNED COPING TO BE REMOVED AND REINSTALLED TO MATCH EXISTING. ALL DETERIORATED MORTAR JOINTS AND SEALANT TO BE CLEANED AND REINSTALLED.

09/08/23 ADDENDUM NO. 2 ADDENDUM NO. 1 08/31/23 ISSUED FOR BID 08/23/23 REVISION DATE



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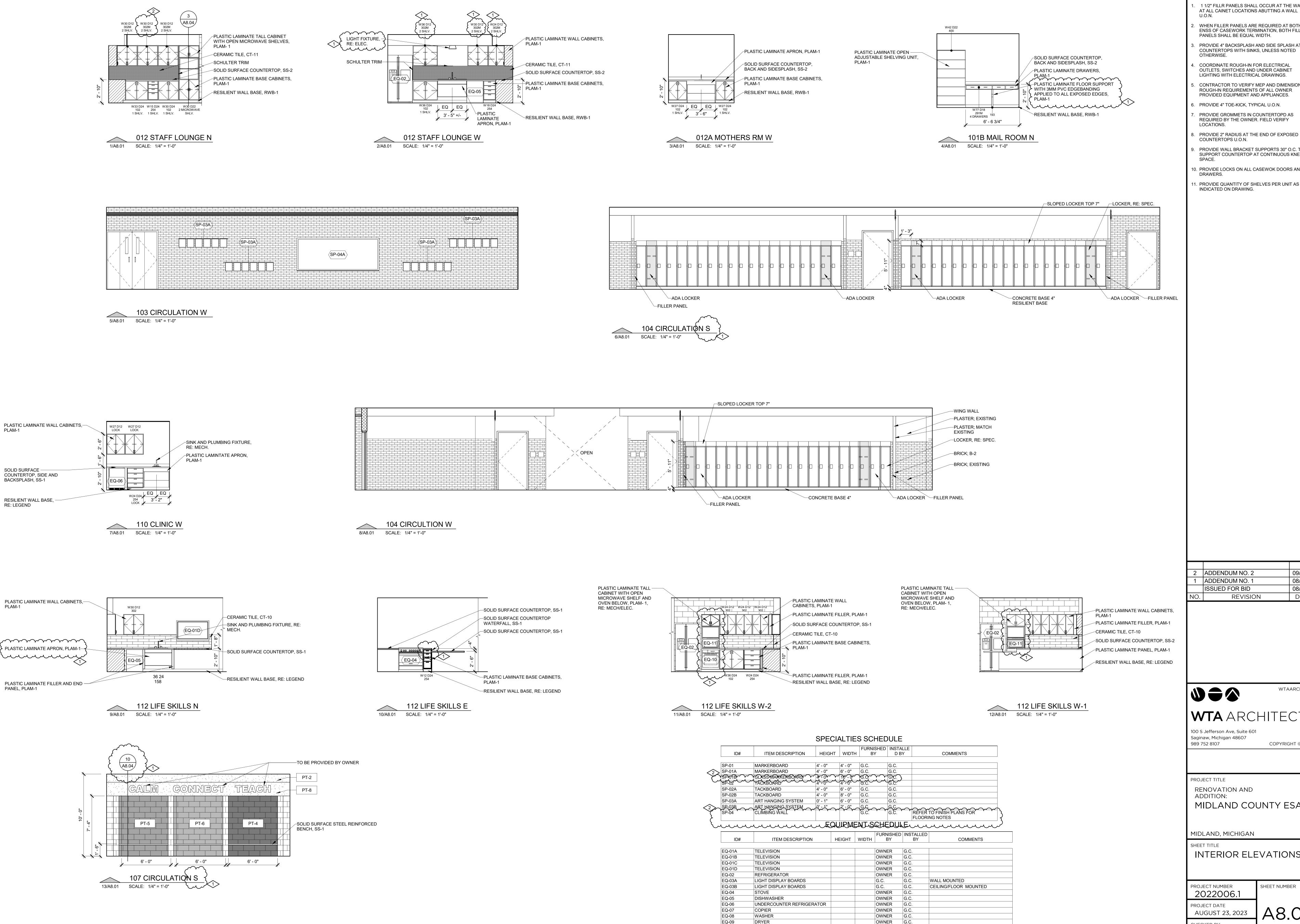
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

WALL SECTIONS

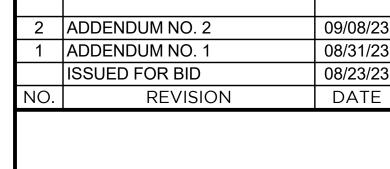
PROJECT NUMBER SHEET NUMBER 2022006.1

PROJECT DATE A7.04 AUGUST 23, 2023 CHECKED BY



**CASEWORK GENERAL NOTES:** 

- . 1 1/2" FILLR PANELS SHALL OCCUR AT THE WALL AT ALL CAINET LOCATIONS ABUTTING A WALL
  - WHEN FILLER PANELS ARE REQUIRED AT BOTH ENSS OF CASEWORK TERMINATION, BOTH FILLER
  - PANELS SHALL BE EQUAL WIDTH. PROVIDE 4" BACKSPLASH AND SIDE SPLASH AT ALL
- COORDINATE ROUGH-IN FOR ELECTRICAL OUTLETS, SWITCHES AND UNDER CABINET
- CONTRACTOR TO VERIFY MEP AND DIMENSIONAL ROUGH-IN REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT AND APPLIANCES.
- PROVIDE 4" TOE-KICK, TYPICAL U.O.N.
- PROVIDE GROMMETS IN COUNTERTOPD AS REQUIRED BY THE OWNER. FIELD VERIFY
- LOCATIONS. PROVIDE 2" RADIUS AT THE END OF EXPOSED
- PROVIDE WALL BRACKET SUPPORTS 30" O.C. TO SUPPORT COUNTERTOP AT CONTINUOUS KNEE
- D. PROVIDE LOCKS ON ALL CASEWOK DOORS AND
- 1. PROVIDE QUANTITY OF SHELVES PER UNIT AS INDICATED ON DRAWING.





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PROJECT TITLE

RENOVATION AND ADDITION: MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

INTERIOR ELEVATIONS

PROJECT NUMBER

JMJ

OWNER

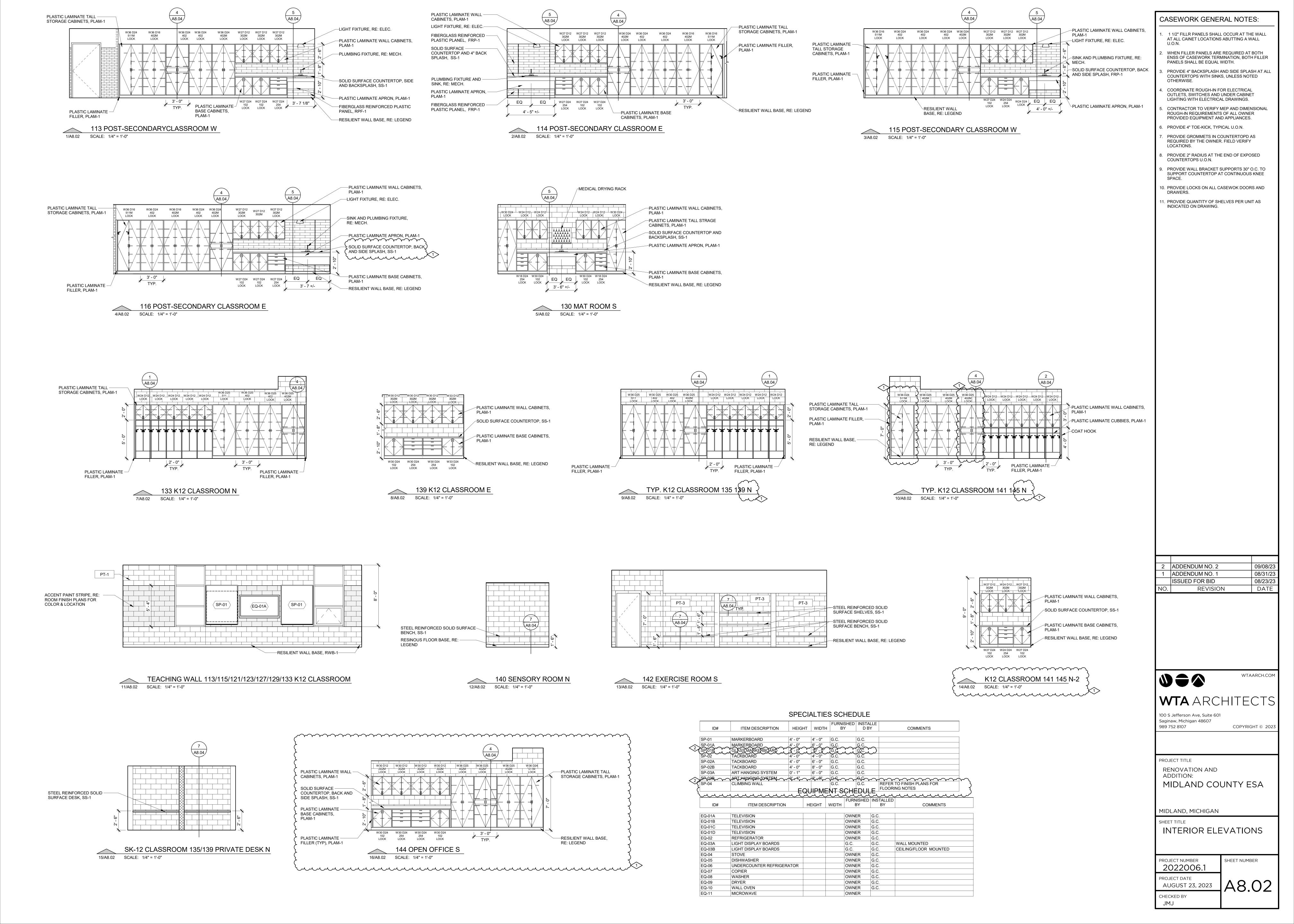
OWNER

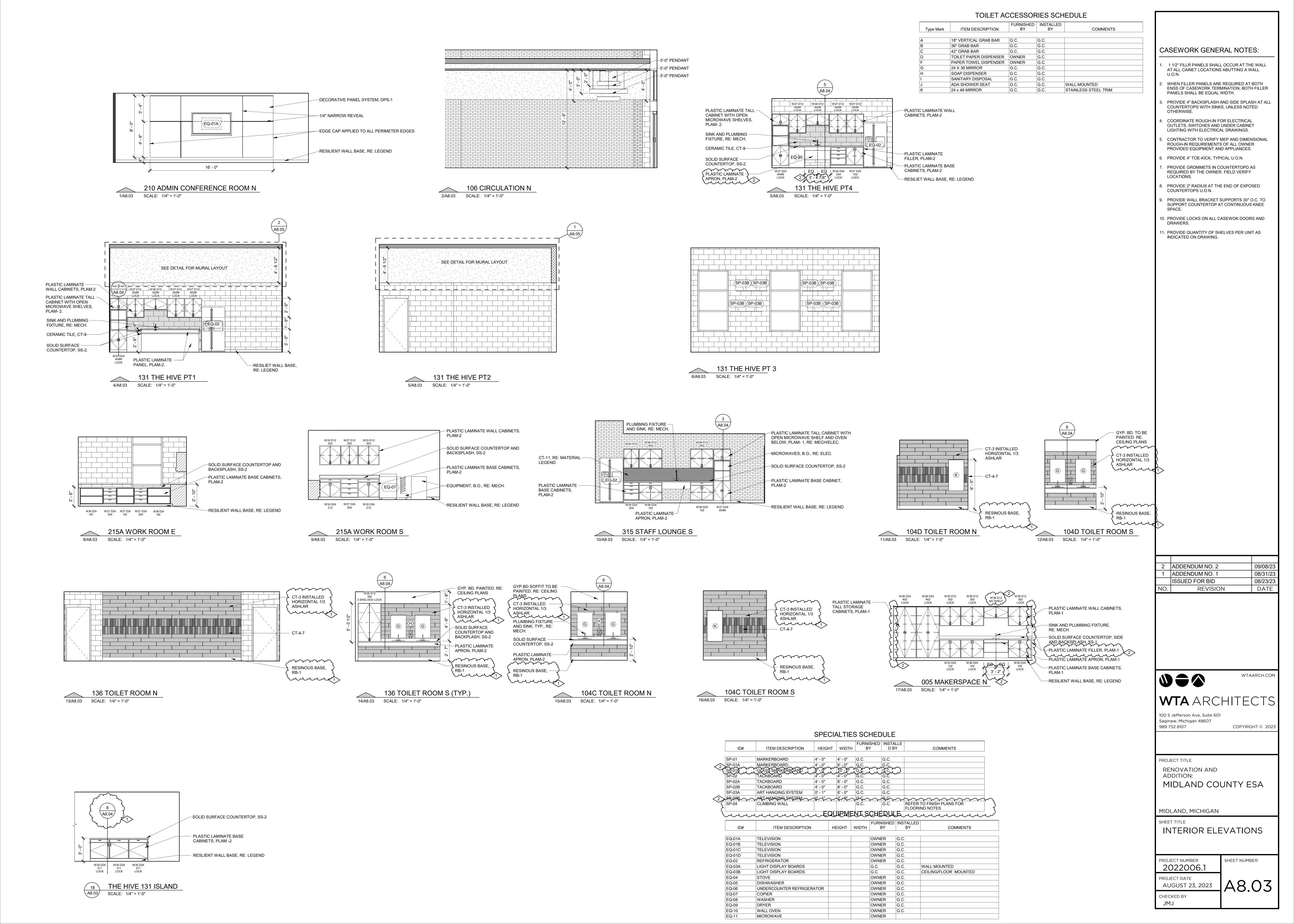
WALL OVEN

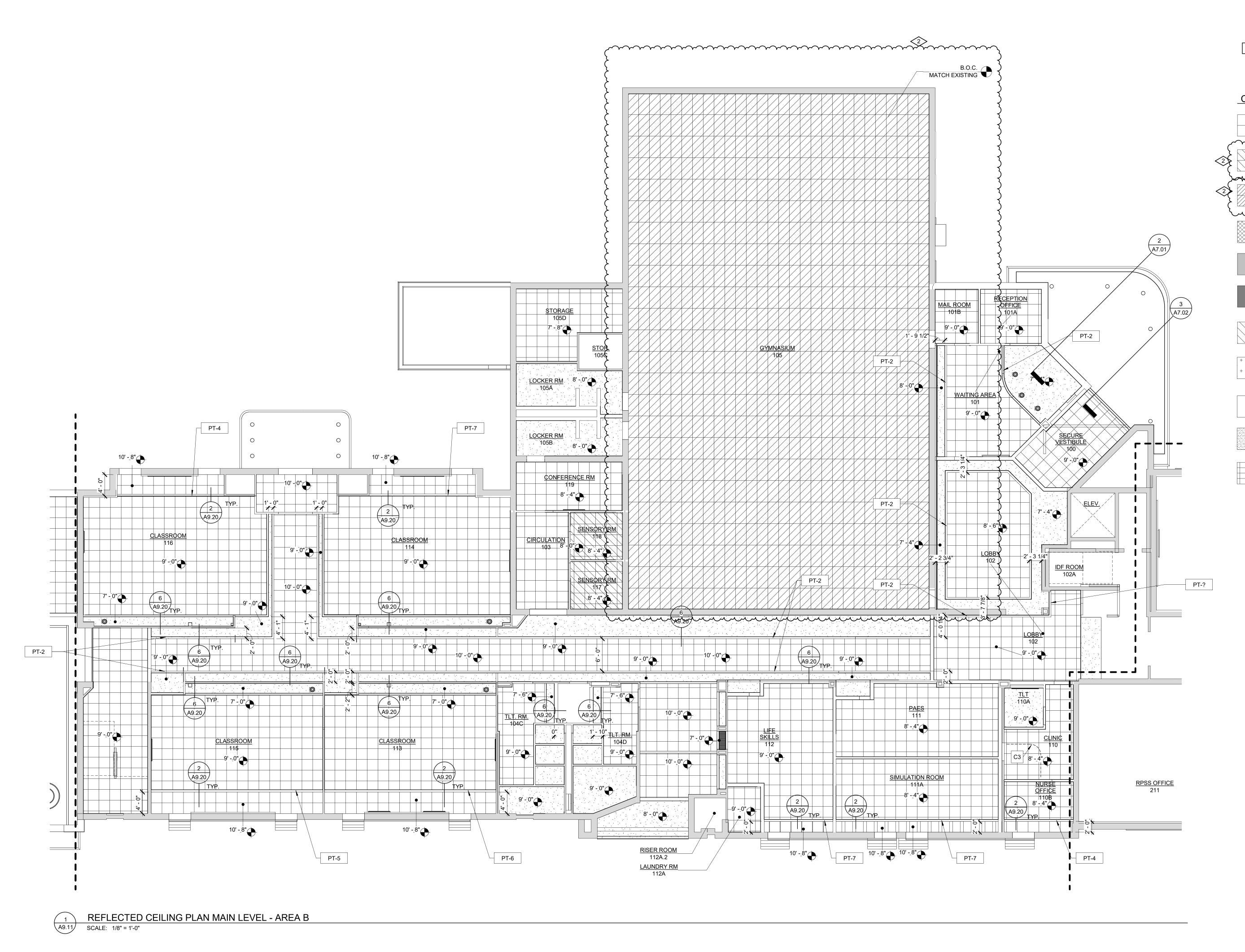
**MICROWAVE** 

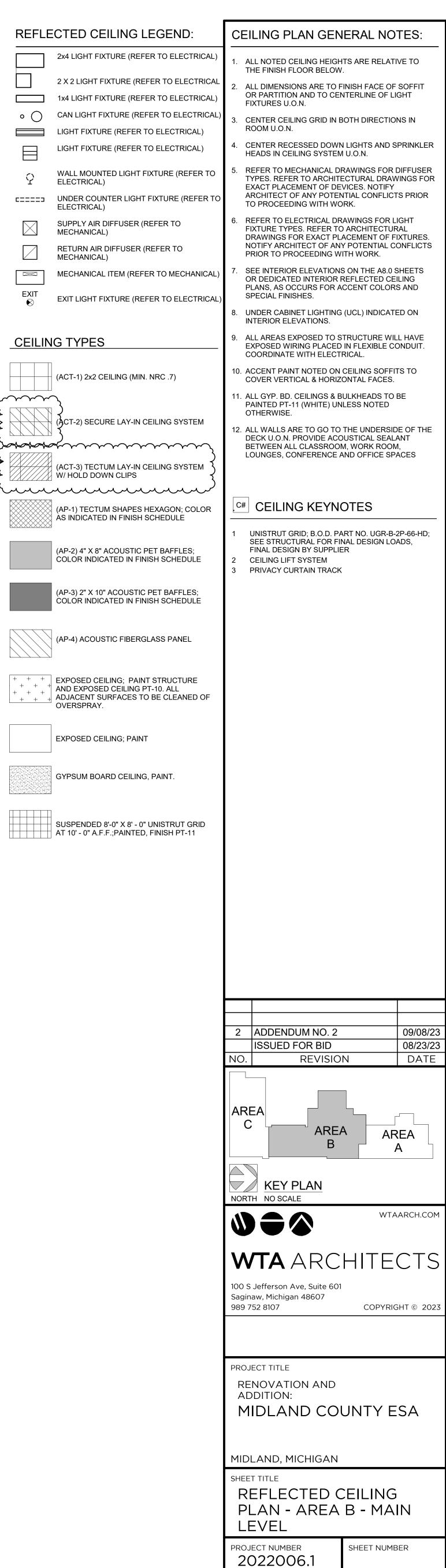
SHEET NUMBER 2022006.1 PROJECT DATE AUGUST 23, 2023

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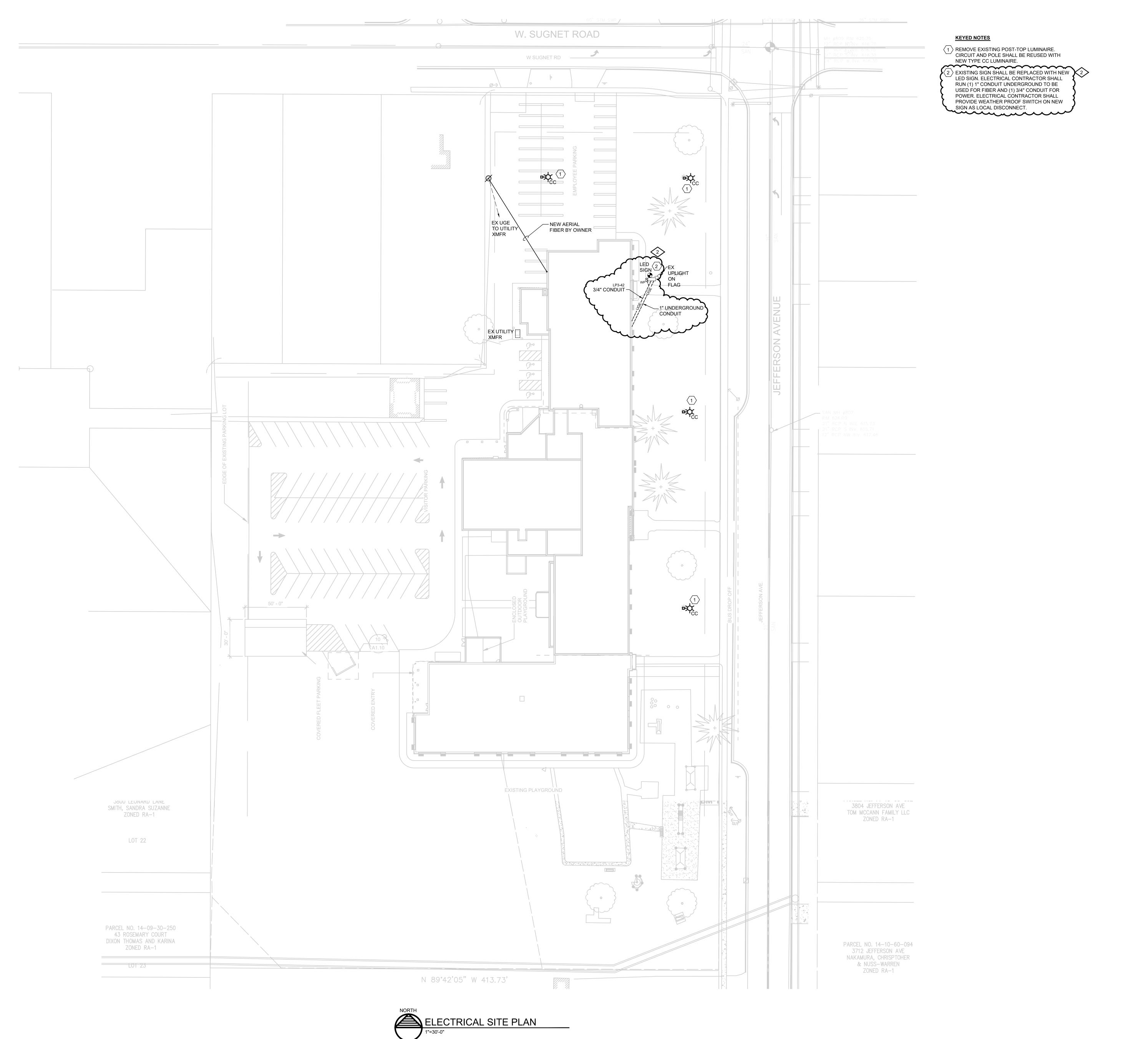
PROJECT DATE

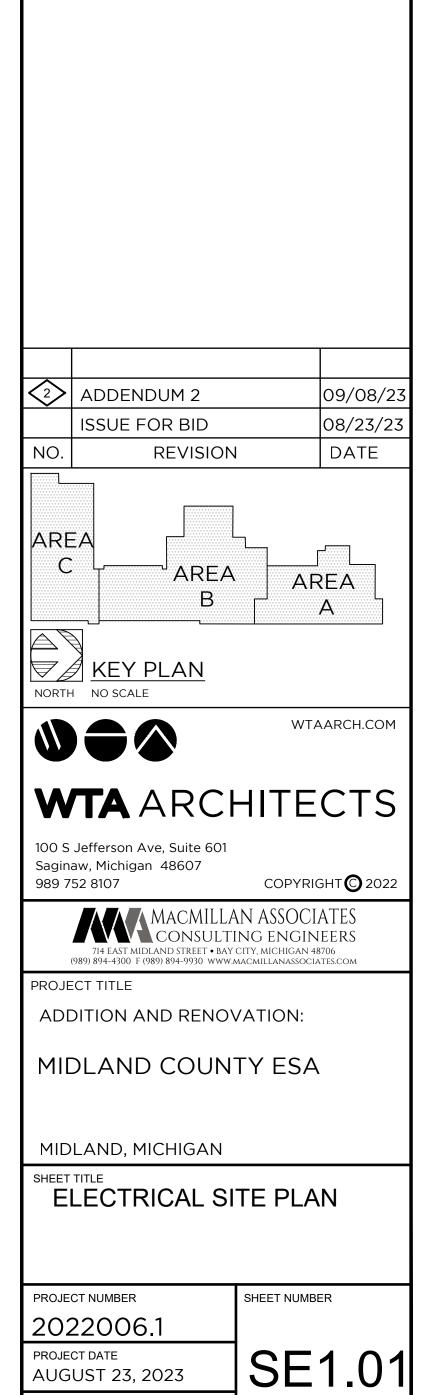
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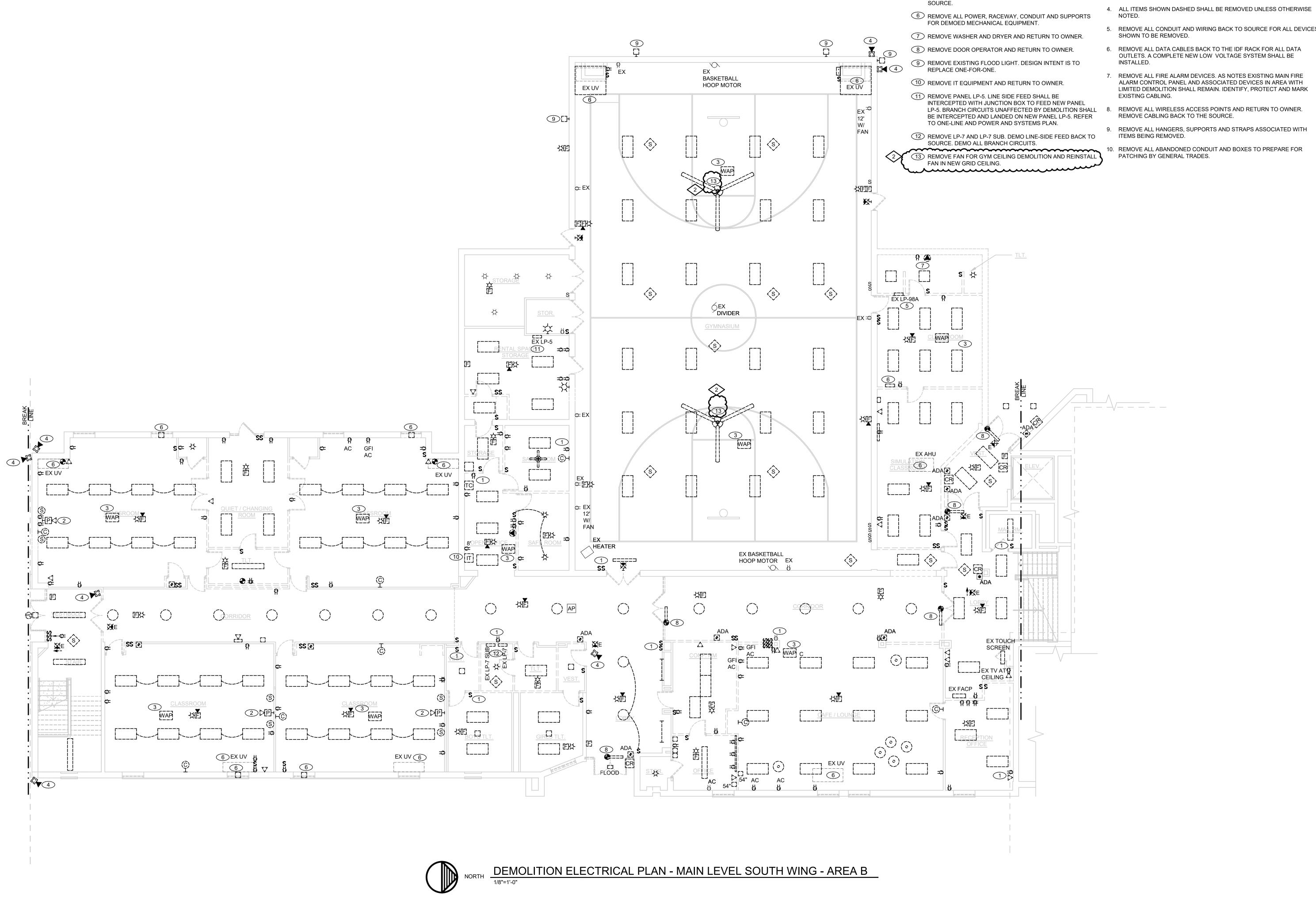
AUGUST 23, 2023

A9.11





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**DEMOLITION SPECIAL NOTE** 

**DEMOLITION KEYED NOTES** 

ELECTRICAL PLANS.

AND REPLACE WITH NEW DEVICE ACCORDING TO

2 REMOVE PROJECTOR AND SPEAKERS AND RETURN TO

4 REMOVE SECURITY CAMERA AND RETURN TO OWNER.

5 DEMO EXISTING ELECTRICAL PANEL. DEMO ALL BRANCH

FED FROM CEILING THEN DEMO LINE SIDE FEED TO

REFER TO POWER AND SYSTEMS PLAN. IF PANEL LP-98A IS

FED UNDERGROUND THEN DEMO LINE-SIDE FEED BACK TO

1) EXISTING ROUGH-IN TO BE REUSED. REMOVE OLD DEVICE 1. DEMO ALL EXISTING FIRE ALARM AND SMOKE DETECTOR DEVICES INCLUDING ALL CONDUCTORS, RACEWAYS, HANGERS AND SUPPORTS. TO PREPARE FOR A NEW FIRE ALARM SYSTEM.

#### GENERAL NOTES DEMOLITION

3 REMOVE WIRELESS ACCESS POINT AND RETURN TO OWNER. 1. ELECTRICAL PANELS SHOWN ON THE DEMO PLAN ARE SHOWN FOR REFERENCE. DO NOT REMOVE PANELS UNLESS NOTED OTHERWISE. REFER TO POWER DRAWINGS.

2. EC SHALL REMOVE AND PROPERLY DISPOSE OF ALL FIXTURES, LAMPS, CIRCUITS. FIELD TRACE LINE-SIDE FEED. IF PANEL LP-98A IS

BALLASTS AND WIRING SHOWN FOR DEMOLITION. ACCESSIBLE CEILING SPACE CLOSEST TO NEW PANEL RP1B. 3. EC SHALL REMOVE ALL BLANK COVERS ON BOXES TO CONFIRM THE

BOXES IF EMPTY SHALL BE REMOVED FOR WALL PATCHING.

TYPE OF WIRING, POWER OR LOW VOLTAGE. REMOVE ALL WIRING,

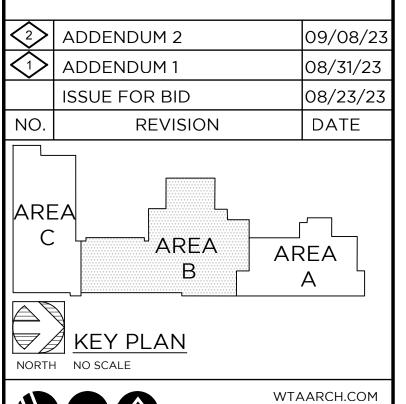
5. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE FOR ALL DEVICES

6. REMOVE ALL DATA CABLES BACK TO THE IDF RACK FOR ALL DATA

7. REMOVE ALL FIRE ALARM DEVICES. AS NOTES EXISTING MAIN FIRE ALARM CONTROL PANEL AND ASSOCIATED DEVICES IN AREA WITH LIMITED DEMOLITION SHALL REMAIN. IDENTIFY, PROTECT AND MARK

REMOVE CABLING BACK TO THE SOURCE.

9. REMOVE ALL HANGERS, SUPPORTS AND STRAPS ASSOCIATED WITH





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ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

DEMOLITION ELECTRICAL PLAN - MAIN LEVEL SOUTH WING - AREA B

PROJECT NUMBER 2022006.1 PROJECT DATE

E1.02

SHEET NUMBER

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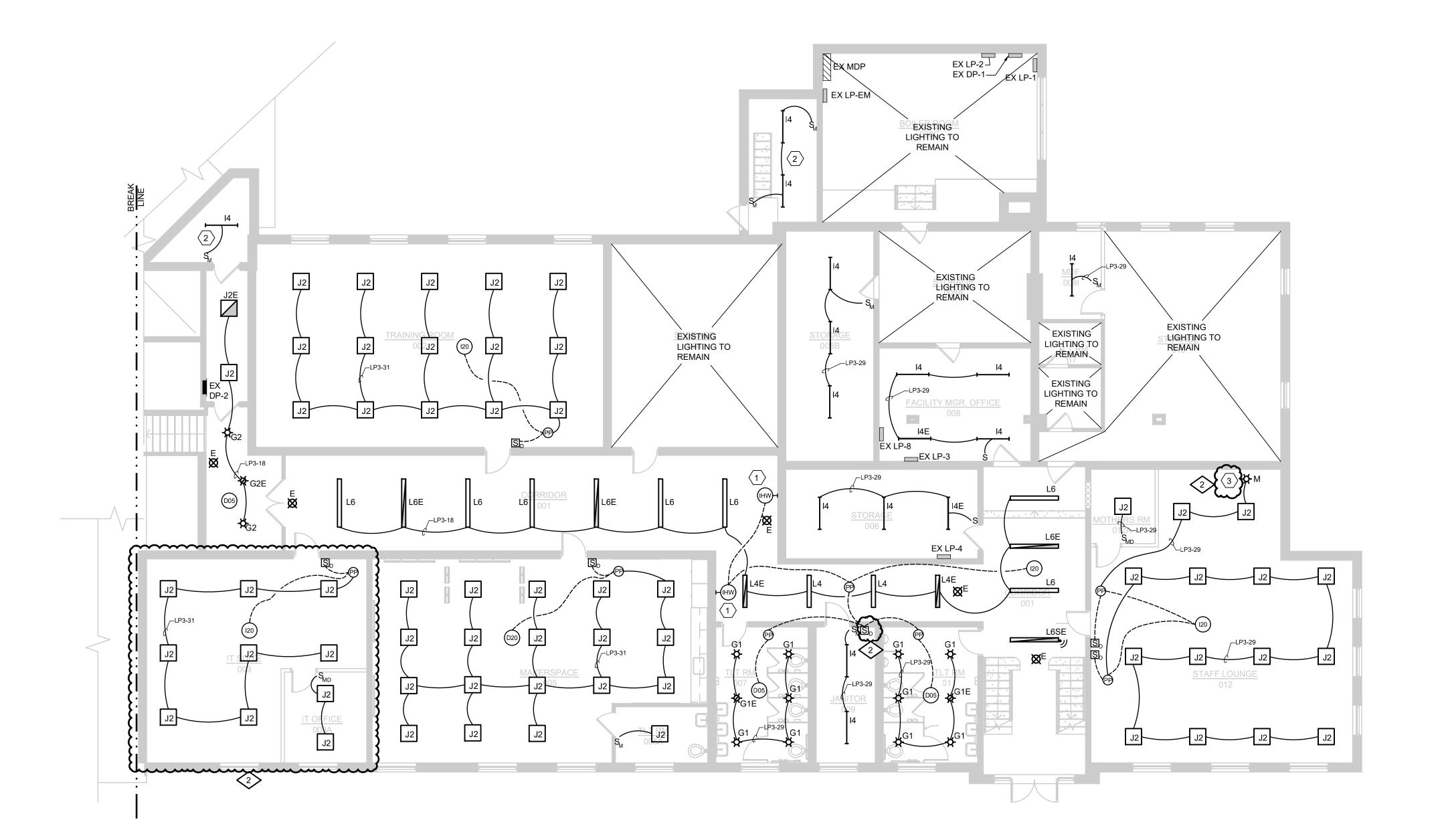
AUGUST 23, 2023

#### KEYED NOTES

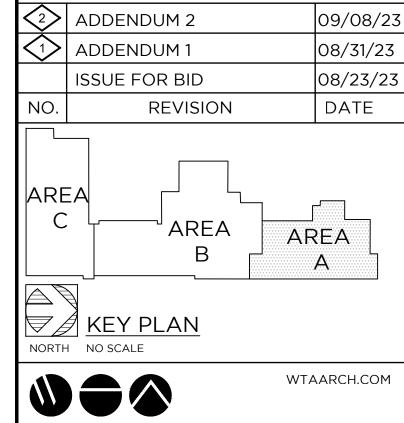
- 1 INSTALL HALLWAY OCCUPANCY SENSOR PER MANUFACTURER'S INSTRUCTIONS. MOUNT AT 7' AFF WITH CLEAR LINE-OF-SIGHT.
- REUSE EXISTING LIGHTING CIRCUITING TO FEED NEW LIGHTS. MODIFY AND EXTEND CIRCUIT AS REQUIRED.
- ELECTRICAL CONTRACTOR SHALL MOUNT FIXTURE "M" ABOVE SINK. SEE ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING LOCATION.

#### LIGHTING WIRING METHODS

- EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES, WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
- 2. HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND EQUIPPED WITH AN EMERGENCY BATTERY PACK.
- 3. CONFIRM LIGHT FIXTURE LAYOUT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ARCHITECTURAL DETAILS FOR LOCATION AND MOUNTING DETAILS.
- 4. MC CABLE IS ONLY ACCEPTABLE AS A FINAL WIRING CONNECTION TO RECESSED LIGHTING INSTALLED IN ACCESSIBLE CEILINGS. MC CABLE LENGTH SHALL NOT EXCEED 6'-0".
- PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR LIGHTING CIRCUITS. THE USE OF THE RACEWAY FOR A GROUNDING PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
- 6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY CONTROL THE LIGHTS AS NOTED AND SPECIFIED ON THE DRAWINGS.
- 7. OCCUPANCY SENSORS, POWER PACKS AND CONTROLS ARE SHOWN DIAGRAMMATICALLY. INFRARED SENSORS MUST REMAIN AT A MINIMUM OF 4'-0" AWAY FROM ANY MECHANICAL HEAT DIFFUSER TO ELIMINATE FALSE TRIPS. CIRCUIT LINES ARE SHOWN FROM SWITCHES TO LIGHT FIXTURES TO COMMUNICATE SWITCHING CONFIGURATION ONLY. ALL SENSORS, POWER PACKS AND WIRING MUST BE WIRED PER MANUFACTURER'S WIRING METHOD.
- 8. A SINGLE POWER PACK CAN HAVE MULTIPLE SWITCHES WIRED TO THE DEVICE PROVIDED THAT THE FIXTURES BEING CONTROLLED BY THESE SWITCHES ARE ON THE SAME CIRCUIT. TWO POWER PACKS ARE REQUIRED IF A SECOND CIRCUIT IS INTRODUCED. REFER TO MANUFACTURER'S WIRING METHODS. POWER PACKS AND OR OCCUPANCY SENSORS SHALL INCLUDE A HVAC RELAY AS SCHEDULED AND NOTED ON THE DRAWINGS FOR THE BUILDING AUTOMATION SYSTEM CONNECTION. BUILDING AUTOMATION WIRING SHALL BE COMPLETED AS PART OF THE TEMPERATURE CONTROL CONTRACTOR'S BID.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING PENETRATIONS THRU FIRE RATED WALLS FOR THEIR WORK.
   POWER PACKS SHOWN DIAGRAMMATICALLY. WHEN SHOWN IN GYP BOARD CEILING, LOCATE POWER PACK IN NEAREST LAY-IN CEILING OR CLOSET SPACE.



NORTH LIGHTING PLAN - LOWER LEVEL - AREA A



**WTA** ARCHITECTS

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ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

LIGHTING PLAN LOWER LEVEL AREA A

PROJECT NUMBER

2022006.1

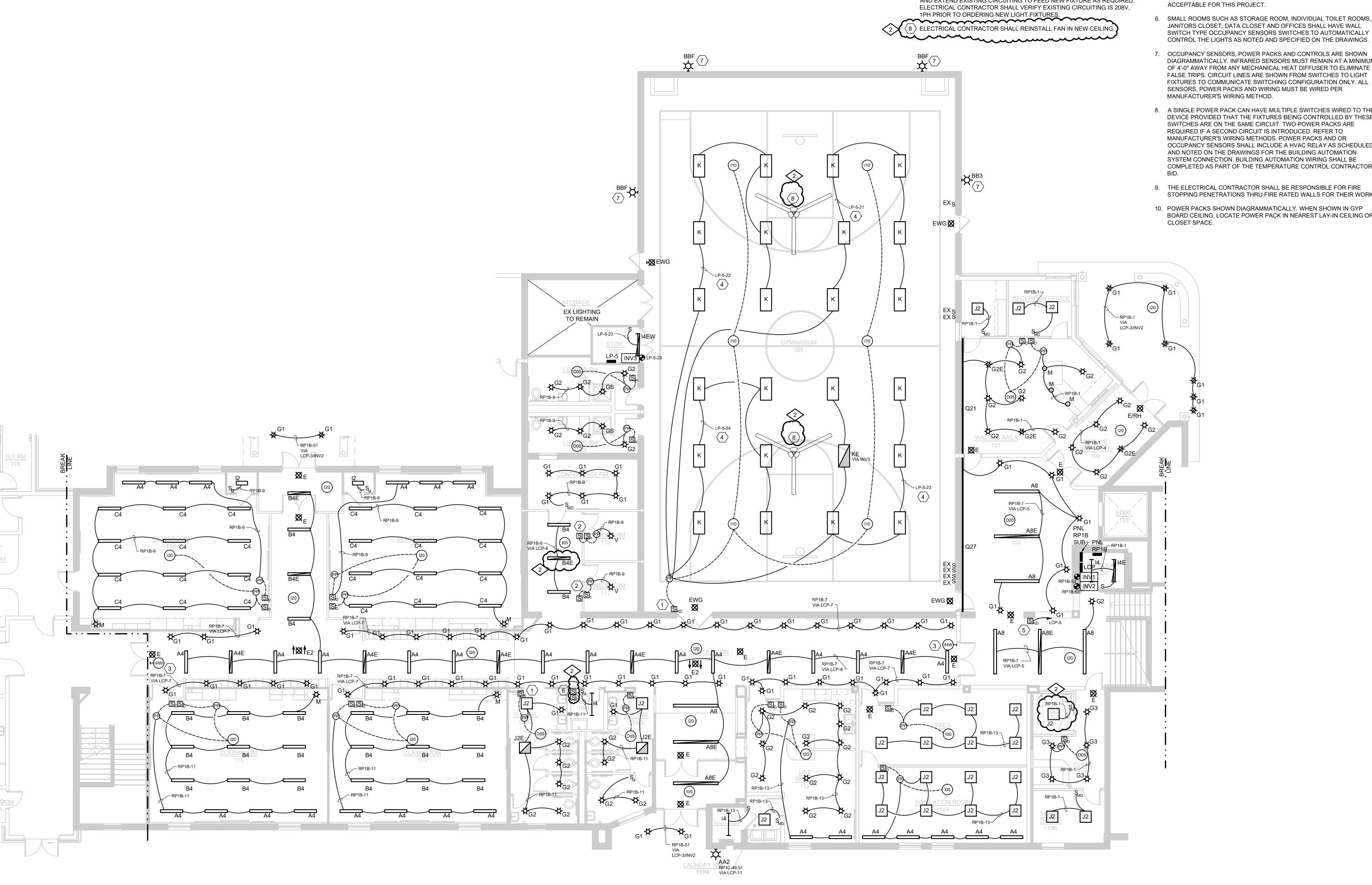
PROJECT DATE

AUGUST 23, 2023

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E2.01

SHEET NUMBER



LIGHTING PLAN - MAIN LEVEL SOUTH WING - AREA B

LIGHTING WIRING METHODS

**KEYED NOTES** 

1 EXISTING ROUGH IN TO BE REUSED. FURNISH AND INSTALL NEW DEVICE.

2 SWITCH ON EXTERIOR OF SENSORY ROOM TO OVERRIDE SWITCH ON THE

3 INSTALL HALLWAY OCCUPANCY SENSOR PER MANUFACTURER'S INSTRUCTIONS. MOUNT AT 7' AFF WITH CLEAR LINE-OF-SIGHT.

REPLACE EXISTING GYM LIGHT FIXTURES ONE-FOR-ONE. REUSE EXISTING LP-5 CIRCUIT. MODIFY AND EXTEND AS NECESSARY.

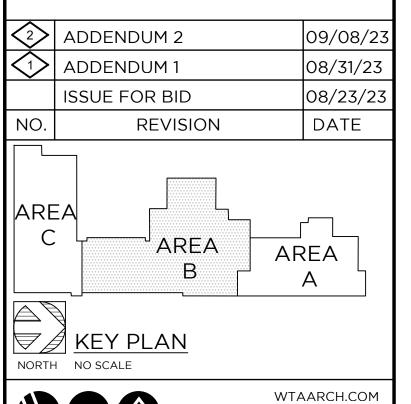
 $\overline{5}$  KEYED SWITCH SHALL BE MANUAL OVERRIDE FOR LOBBY LIGHTING.

6 LOW VOLTAGE DIMMER SWITCH SHALL BE MANUAL OVERRIDE FOR CORRIDOR LIGHTING. 2

 $\left\langle 7\right\rangle$  INSTALL FIXTURE IN SAME LOCATION OF REMOVED FLOODLIGHT. MODIFY

AND EXTEND EXISTING CIRCUITING TO FEED NEW FIXTURE AS REQUIRED.

- 1. EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES, WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
- 2. HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND EQUIPPED WITH AN EMERGENCY BATTERY
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- 6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY
- OCCUPANCY SENSORS, POWER PACKS AND CONTROLS ARE SHOWN DIAGRAMMATICALLY. INFRARED SENSORS MUST REMAIN AT A MINIMUM OF 4'-0" AWAY FROM ANY MECHANICAL HEAT DIFFUSER TO ELIMINATE FALSE TRIPS. CIRCUIT LINES ARE SHOWN FROM SWITCHES TO LIGHT FIXTURES TO COMMUNICATE SWITCHING CONFIGURATION ONLY. ALL SENSORS, POWER PACKS AND WIRING MUST BE WIRED PER
- 8. A SINGLE POWER PACK CAN HAVE MULTIPLE SWITCHES WIRED TO THE DEVICE PROVIDED THAT THE FIXTURES BEING CONTROLLED BY THESE SWITCHES ARE ON THE SAME CIRCUIT. TWO POWER PACKS ARE REQUIRED IF A SECOND CIRCUIT IS INTRODUCED. REFER TO MANUFACTURER'S WIRING METHODS. POWER PACKS AND OR OCCUPANCY SENSORS SHALL INCLUDE A HVAC RELAY AS SCHEDULED AND NOTED ON THE DRAWINGS FOR THE BUILDING AUTOMATION SYSTEM CONNECTION. BUILDING AUTOMATION WIRING SHALL BE COMPLETED AS PART OF THE TEMPERATURE CONTROL CONTRACTOR'S
- 9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING PENETRATIONS THRU FIRE RATED WALLS FOR THEIR WORK.
- 10. POWER PACKS SHOWN DIAGRAMMATICALLY. WHEN SHOWN IN GYP BOARD CEILING, LOCATE POWER PACK IN NEAREST LAY-IN CEILING OR





**WTA** ARCHITECTS 100 S Jefferson Ave, Suite 601

Saginaw, Michigan 48607

ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

SHEET TITLE
LIGHTING PLAN -MAIN LEVEL SOUTH WING - AREA B

SHEET NUMBER PROJECT NUMBER 2022006.1 PROJECT DATE

AUGUST 23, 2023 CHECKED BY

### KEYED NOTES

- $\fbox{1}$  EXISTING ROUGH-IN TO BE REUSED. FURNISH AND INSTALL NEW DEVICE.
- 2 INSTALL HALLWAY OCCUPANCY SENSOR PER MANUFACTURER'S INSTRUCTIONS. MOUNT AT 7' AFF WITH CLEAR LINE-OF-SIGHT.
- 3 SWITCHES SHOWN DIAGRAMMATICALLY. ALL 3 SWITCHES SHALL BE ADJACENT.
- CUSTOM PENDANT TO BE INSTALLED WITH 3', 5' AND 3' DIAMETER RINGS. SINGULAR POWER FEED WITH 3 POWER CORDS. COORDINATE MOUNTING DURING SUBMITTALS PHASE.
- $\overline{\langle 5 \rangle}$  TYPE L6SE FIXTURE TO BE CONTROLLED WITH STAIRWELL FIXTURES.
- 6 INSTALL FIXTURE IN SAME LOCATION OF REMOVED FLOODLIGHT. MODIFY AND EXTEND EXISTING CIRCUITING TO FEED NEW FIXTURE AS REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CIRCUITING IS 208V, 1PH PRIOR TO ORDERING NEW LIGHT FIXTURES.

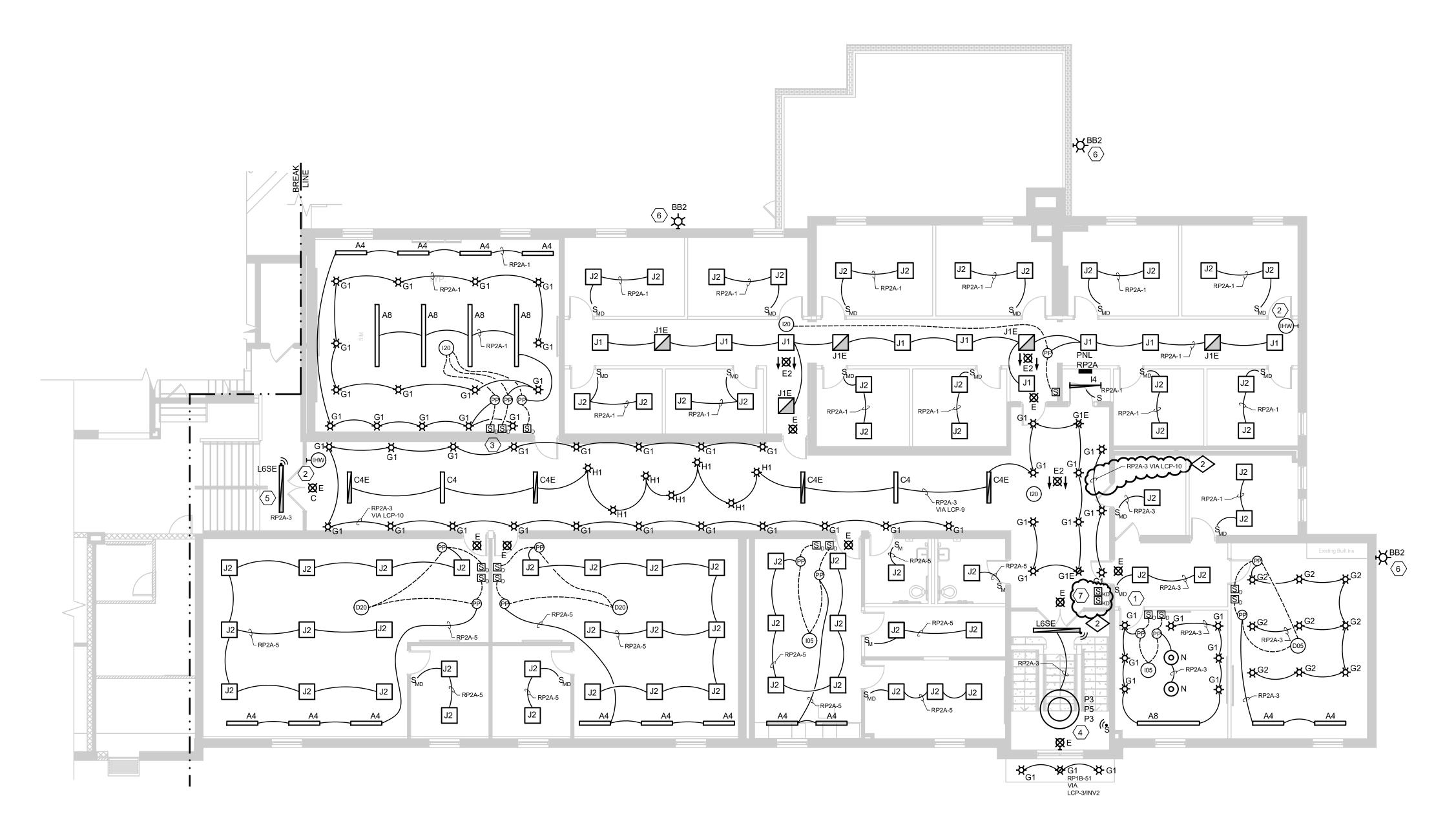
  7 KEYED SWITCHES ARE TO CONTROL THE MAIN CORRIDOR LIGHTS AND CORRIDOR DOWNLIGHTS.

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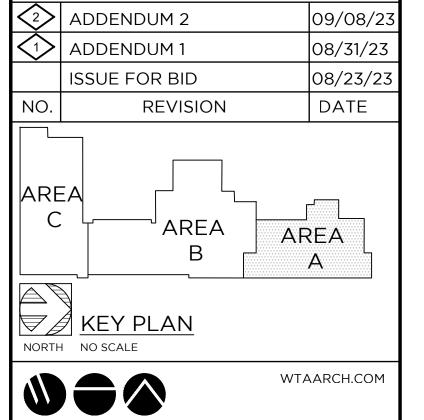
 EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES, WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.

LIGHTING WIRING METHODS

- HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND EQUIPPED WITH AN EMERGENCY BATTERY PACK.
- CONFIRM LIGHT FIXTURE LAYOUT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ARCHITECTURAL DETAILS FOR LOCATION AND MOUNTING DETAILS.
- 4. MC CABLE IS ONLY ACCEPTABLE AS A FINAL WIRING CONNECTION TO RECESSED LIGHTING INSTALLED IN ACCESSIBLE CEILINGS. MC CABLE LENGTH SHALL NOT EXCEED 6'-0".
- PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR LIGHTING CIRCUITS. THE USE OF THE RACEWAY FOR A GROUNDING PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
- 6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY CONTROL THE LIGHTS AS NOTED AND SPECIFIED ON THE DRAWINGS.
- 7. OCCUPANCY SENSORS, POWER PACKS AND CONTROLS ARE SHOWN DIAGRAMMATICALLY. INFRARED SENSORS MUST REMAIN AT A MINIMUM OF 4'-0" AWAY FROM ANY MECHANICAL HEAT DIFFUSER TO ELIMINATE FALSE TRIPS. CIRCUIT LINES ARE SHOWN FROM SWITCHES TO LIGHT FIXTURES TO COMMUNICATE SWITCHING CONFIGURATION ONLY. ALL SENSORS, POWER PACKS AND WIRING MUST BE WIRED PER MANUFACTURER'S WIRING METHOD.
- 8. A SINGLE POWER PACK CAN HAVE MULTIPLE SWITCHES WIRED TO THE DEVICE PROVIDED THAT THE FIXTURES BEING CONTROLLED BY THESE SWITCHES ARE ON THE SAME CIRCUIT. TWO POWER PACKS ARE REQUIRED IF A SECOND CIRCUIT IS INTRODUCED. REFER TO MANUFACTURER'S WIRING METHODS. POWER PACKS AND OR OCCUPANCY SENSORS SHALL INCLUDE A HVAC RELAY AS SCHEDULED AND NOTED ON THE DRAWINGS FOR THE BUILDING AUTOMATION SYSTEM CONNECTION. BUILDING AUTOMATION WIRING SHALL BE COMPLETED AS PART OF THE TEMPERATURE CONTROL CONTRACTOR'S BID.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING PENETRATIONS THRU FIRE RATED WALLS FOR THEIR WORK.
- POWER PACKS SHOWN DIAGRAMMATICALLY. WHEN SHOWN IN GYP BOARD CEILING, LOCATE POWER PACK IN NEAREST LAY-IN CEILING OR CLOSET SPACE.









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MACMILLAN ASSOCIATES
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714 EAST MIDLAND STREET • BAY CITY, MICHIGAN 48706

PROJECT TITLE

ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

LIGHTING PLAN MAIN LEVEL
NORTH WING - AREA A

PROJECT NUMBER

2022006.1

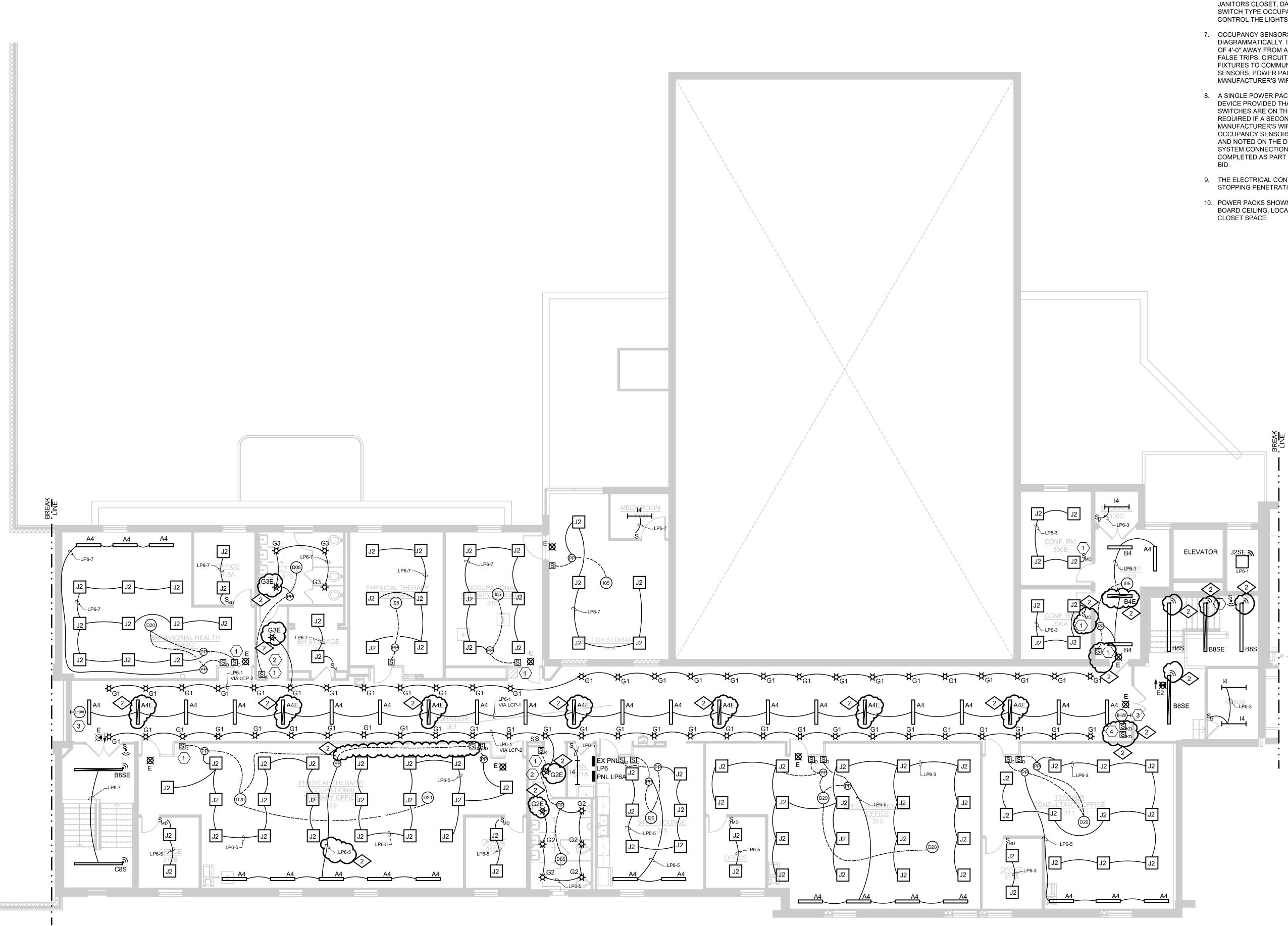
PROJECT DATE

AUGUST 23, 2023

CHECKED BY

E2.03

SHEET NUMBER



NORTH LIGHTING PLAN - UPPER LEVEL - AREA B

1/8"=1'-0"



**KEYED NOTES** 

LABEL SWITCH.

CORRIDOR DOWNLIGHTS.

1 EXISTING ROUGH-IN TO BE REUSED. FURNISH AND INSTALL NEW DEVICE.

(2) KEYED SWITCH SHALL CONTROL RESTROOM LIGHTS. EC SHALL CLEARLY

INSTRUCTIONS. MOUNT AT 7' AFF WITH CLEAR LINE-OF-SIGHT. TIE IN TO

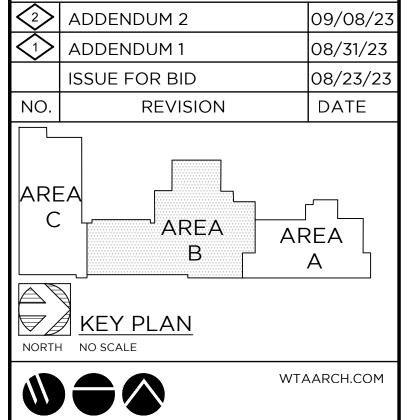
 $\langle 4 \rangle$  KEYED SWITCHES ARE TO CONTROL THE MAIN CORRIDOR LIGHTS AND

(3) INSTALL HALLWAY OCCUPANCY SENSOR PER MANUFACTURER'S

- EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES, WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
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LENGTH SHALL NOT EXCEED 6'-0".

- 4. MC CABLE IS ONLY ACCEPTABLE AS A FINAL WIRING CONNECTION TO RECESSED LIGHTING INSTALLED IN ACCESSIBLE CEILINGS. MC CABLE
- 5. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR LIGHTING CIRCUITS. THE USE OF THE RACEWAY FOR A GROUNDING PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
- 6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY CONTROL THE LIGHTS AS NOTED AND SPECIFIED ON THE DRAWINGS.
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**WTA** ARCHITECTS

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PROJECT TITLE

ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

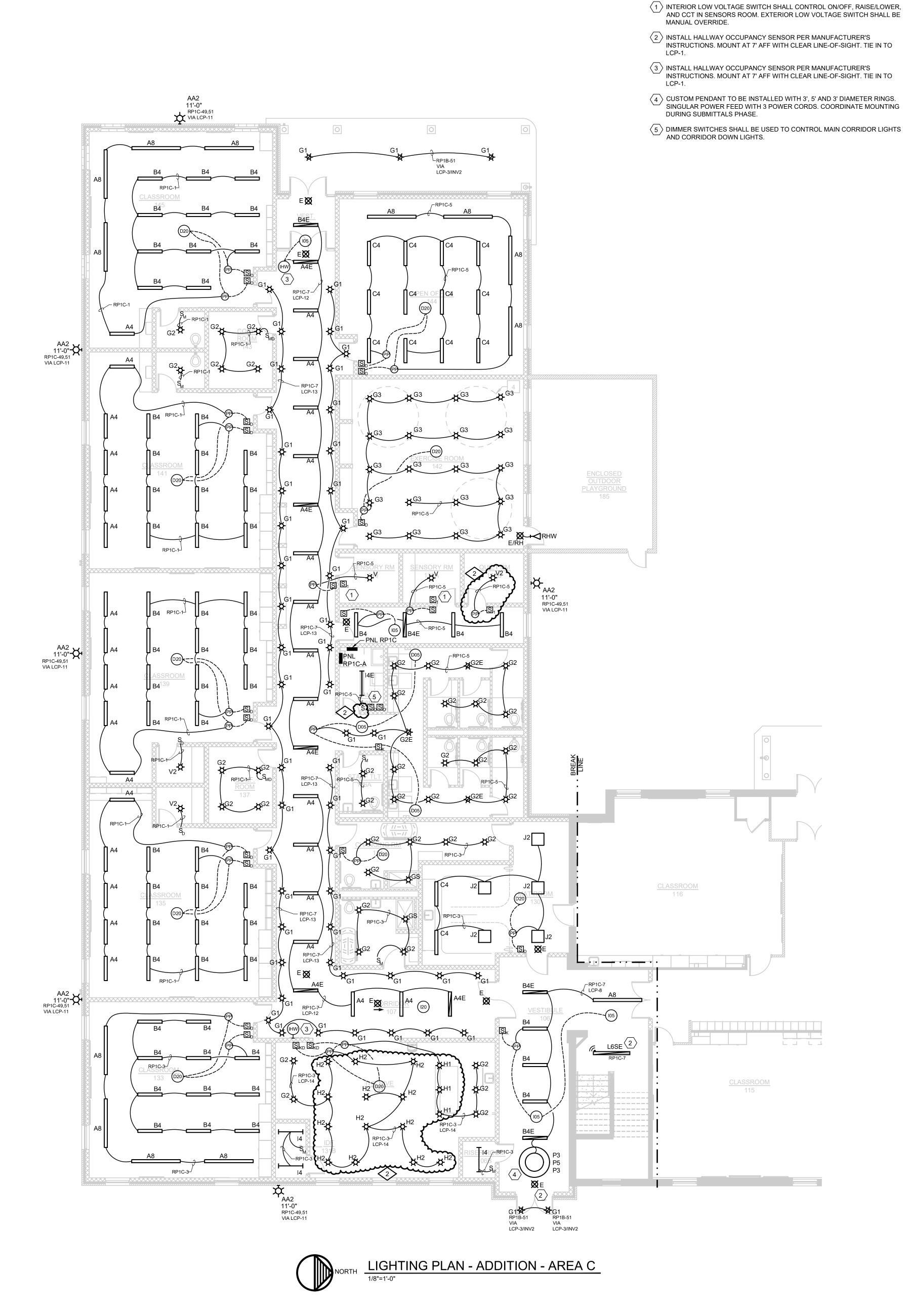
LIGHTING PLAN -UPPER LEVEL AREA B

PROJECT NUMBER

2022006.1

PROJECT DATE
AUGUST 23, 2023

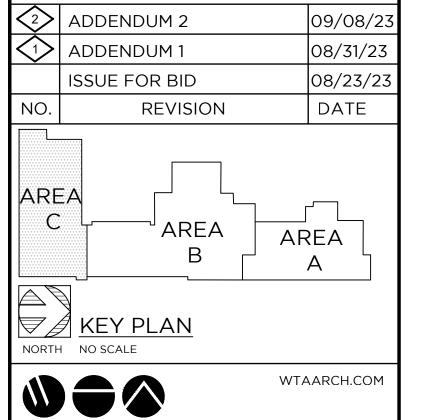
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#### LIGHTING WIRING METHODS

**KEYED NOTES** 

- 1. EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES, WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
- 2. HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND EQUIPPED WITH AN EMERGENCY BATTERY
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714 EAST MIDLAND STREET • BAY CITY, MICHIGAN 48706

PROJECT TITLE

ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

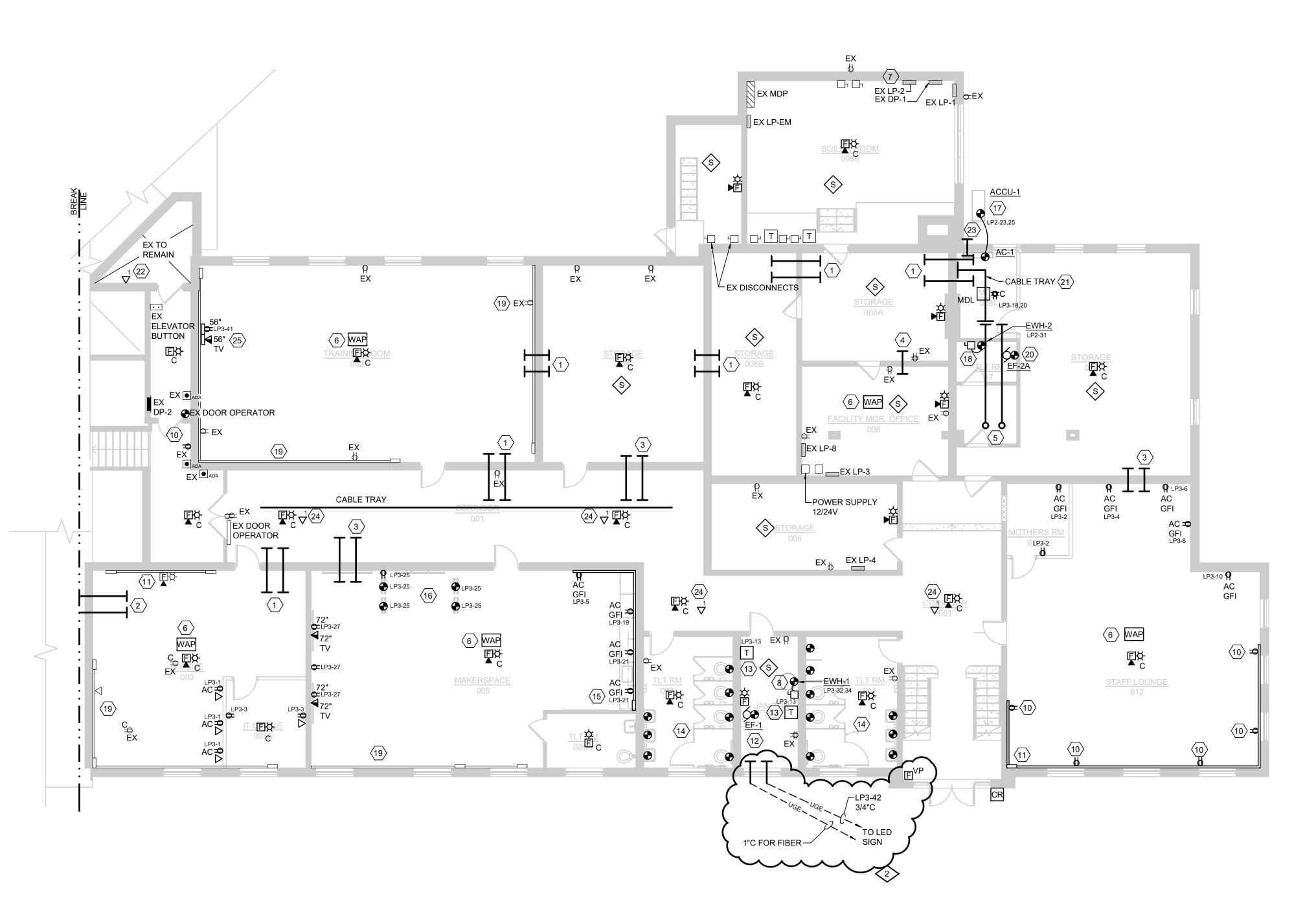
LIGHTING PLAN
ADDITION
AREA C

PROJECT NUMBER

2022006.1

PROJECT DATE
AUGUST 23, 2023

CHECKED BY



POWER AND SYSTEMS PLAN - LOWER LEVEL - AREA A

#### POWER & SYSTEMS WIRING METHODS

- 1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH RECEPTACLE CIRCUIT. SHARED NEUTRALS ARE NOT PERMITTED.
- 2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RECEPTACLE. PROVIDE A #12 MINIMUM GROUNDING CONDUCTOR IN EACH RACEWAY. THE USE OF METAL CONDUIT OR RACEWAY FOR A BOND PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
- 3. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.
- 4. ALL NEW RECEPTACLES AND VOICE/DATA OUTLETS SHALL BE MOUNTED AT A MINIMUM OF 16" TO THE BOTTOM OF BOX ABOVE THE FINISHED FLOOR, UNLESS NOTED OTHERWISE. 18" IS ONLY AN ACCEPTABLE MOUNTING HEIGHT PENDING FOR MASONRY COARSE LINE INSTALLATION. COORDINATE ALL DEVICE HEIGHTS WITH ARCHITECT.
- 5. ELECTRICAL TRADES SHALL CONFIRM VOICE/DATA AND RECEPTACLE LOCATION WITH THE OWNER'S FURNITURE LAYOUTS AND INSTALLATION.
- 6. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
- 7. GENERAL PURPOSE DUPLEX RECEPTACLES SHALL BE WHITE, GRAY OR IVORY AS ADVISED BY THE ARCHITECT.
- 8. FIRE ALARM WIRING INSTALLED ABOVE THE FINISHED CEILING IS ACCEPTABLE TO USE THE FREE-AIR METHOD. USE "J" HOOKS OR "D" RINGS FOR SUPPORT METHODS. PROVIDE PLENUM RATED CABLE FOR THE ENTIRE PROJECT.
- 9. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 NATIONAL FIRE ALARM CODE, BUREAU OF FIRE SERVICES, 2003 MICHIGAN BARRIER FREE DESIGN MANUAL AND OTHER APPLICABLE CODES. MOUNTING HEIGHT REQUIREMENTS:
- WALL MOUNTED AUDIO/VISUAL UNITS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. CEILING MOUNTED DEVICES ARE ACCEPTABLE AND ARE NOTED ON THE DRAWINGS.
- MANUAL PULL STATIONS SHALL BE MOUNTED 48" MAXIMUM TO THE TOP OF BOX FROM THE FINISHED FLOOR.
- 9. ALL BRANCH DEVICES SHALL USE A 4" SQUARE STEEL BOX WITH A SINGLE GANG TRIM RING FOR INTERIOR GYPSUM BOARD WALLS. MASONRY BOXES ARE ACCEPTABLE FOR MASONRY WALL INSTALLATION. NON-METALLIC BOXES ARE NOT ACCEPTABLE FOR THIS
- 10. J-HOOKS AND CONDUIT OR CABLE TRAY SHALL BE USED FOR THE LOW-VOLTAGE SYSTEM WIRING INCLUDING BUT NOT LIMITED TO: FIRE ALARM, VOICE, DATA, PA, LIGHTING CONTROL, ETC.
- 11. USE MINIMUM 1" CONDUIT SIZE FOR VOICE/DATA OUTLET DROPS. EXTEND THE CONDUIT TO THE ADJACENT CORRIDOR ACCESSIBLE CEILING SPACE.
- 12. MC CABLE IS ONLY ACCEPTABLE FOR FINAL LIGHT FIXTURE CONNECTIONS ABOVE THE LAY-IN CEILING ON THIS PROJECT, UNLESS SPECIFICALLY NOTED.
- 13. RECEPTACLES, VOICE AND DATA OUTLET LOCATIONS SHOWN IN THE OFFICES, WORKROOM, CONFERENCE/LOUNGE AREA ARE BASED ON WORKSTATION, CASEWORK SHOWN AND THE ANTICIPATED OFFICE FURNITURE ARRANGEMENTS. CONFIRM THE FINAL LOCATIONS DURING THE ROUGH-IN PHASE.
- 14. VERIFY LOCATION AND ORIENTATION OF EXISTING STRUCTURAL FRAMING PRIOR TO CORING FLOOR FOR PENETRATION. EXISTING FRAMING SHALL NOT BE CUT, ADJUSTED, OR CHANGED IN ANY WAY WITHOUT APPROVAL OF STRUCTURAL ENGINEER AND ARCHITECT.
- 15. VERIFY ADA OPERATOR LOCATIONS WITH ARCHITECTURAL PLANS AND DOOR HARDWARE VENDOR PRIOR TO ROUGH-IN.

### **KEYED NOTES**

- $\langle 1 \rangle$  FURNISH AND INSTALL (4) 2" CONDUIT STUBS INTO ACCESSIBLE CEILING SPACE FOR LOW VOLTAGE CABLING.
- FURNISH AND INSTALL (4) 2" CONDUIT STUBS. DESIGN INTENT IS TO PROVIDE CONDUIT PATH FROM LOWER LEVEL AREA A MDF TO MAIN LEVEL AREA B IDF ROOM. COORDINATE LOCATION WITH CONDUIT STUBS FROM IDF ROOM.
- FURNISH AND INSTALL (2) 2" CONDUIT STUBS INTO ACCESSIBLE CEILING SPACE. (1) CONDUIT SHALL BE AN EMPTY SPARE.
- $\overline{\langle 4 \rangle}$  FURNISH AND INSTALL (1) 2" CONDUIT STUB THROUGH WALL INTO ACCESSIBLE CEILING SPACE.
- 5 FURNISH AND INSTALL (4) 2" CONDUIT FROM MDF ROOM TO ACCESSIBLE CEILING SPACE BENEATH PANEL RP2A ELECTRICAL ROOM. COORDINATE LOCATION WITH CONDUIT STUBS IN FLOOR ABOVE.
- $\langle 6 \rangle$  INSTALL FLUSH MOUNTED DATA JACK IN CEILING FOR WIRELESS ACCESS
- 7 EX PANEL LP-EM TO BE REFED FROM PANEL LP-2. FURNISH AND INSTALL 100A/2P BREAKER IN LP-2.
- $\langle 8 \rangle$  FURNISH AND INSTALL 30 AMP NEMA 1 DISCONNECT. PROVIDE 208V, 1PH POWER CONNECTION FROM DISCONNECT TO ELECTRIC WATER HEATER.
- $\langle 9 \rangle$  FURNISH AND INSTALL NEW DEVICE IN EXISTING ROUGH-IN. REUSE EXISTING
- $\langle 10 \rangle$  MODIFY AND EXTEND EXISTING CIRCUITING TO FEED NEW DEVICE.
- (11) FURNISH AND INSTALL NEW WIREMOLD 700 SERIES SURFACE RACEWAY. VERTICAL RUN IN CORNER, HORIZONTAL RUN AT RECEPTACLE STANDARD
- (12) REUSE EXISTING EXHAUST FAN CIRCUIT TO FEED NEW EF-1 THROUGH FACTORY MOUNTED DISCONNECT. MODIFY AND EXTEND CIRCUIT AS
- (13) INSTALL AND WIRE LOW VOLTAGE TRANSFORMER FURNISHED BY MECHANICAL TRADES. RUN LOW VOLTAGE WIRING TO BATHROOM
- 14 PROVIDE LOW VOLTAGE POWER CONNECTIONS TO BATHROOM SENSORS AS REQUIRED BY THE MECHANICAL SCHEDULE.
- \$\langle 15 \rangle FURNISH AND INSTALL NEW WIREMOLD 700 SERIES SURFACE RACEWAY. VERTICAL RUN IN CORNER, HORIZONTAL RUN ABOVE COUNTER.
- PROVIDE POWER CONNECTION FROM CEILING TO ILLUMINATED MARKER BOARDS THROUGH POST. (17) PROVIDE 208V, 1PH POWER CONNECTION TO ACC-1 THROUGH FACTORY
- MOUNTED AND WIRED DISCONNECT. (18) FURNISH AND INSTALL 30A NEMA 1 DISCONNECT UNDERNEATH SINK CABINET. PROVIDE 120V POWER CONNECTION FROM DISCONNECT TO
- (19) EXISTING WIREMOLD TO REMAIN.
- $\langle 20 \rangle$  USE EXISTING EXHAUST FAN CIRCUIT TO FEED NEW EXHAUST FAN THROUGH FACTORY MOUNTED.
- FURNISH AND INSTALL 12 STRAND ARMORED FIBER OPTIC FROM MDL RACK TO EACH OF THE IDL RACKS. ROUTE THRU BUILDING. PROVIDE ALL
- $\langle 22 
  angle$  ELECTRICAL CONTRACTOR SHALL PROVIDE CAT6 CABLE FROM ELEVATOR CONTROLLER TO MDL RACK.
- 23 ELECTRICAL CONTRACTOR SHALL PROVIDE NEW 1" RGS CONDUIT STUB 12" BELOW CEILING LINE TO EXTERIOR FOR USE BY OWNER FOR NEW BUILDING FIBER.
- (24) ELECTRICAL CONTRACTOR SHALL ADD DATA JACK IN CORRIDOR FOR FUTURE OWNER SPEAKERS/INTERCOM SYSTEM.
- ELECTRICAL CONTRACTOR SHALL INSTALL WIRE MOLD VERTICALLY DOWN WALL FOR TV DEVICES.

G	$\bigcirc$ 2	ADDENDUM 2	09/08/2
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09/08/23



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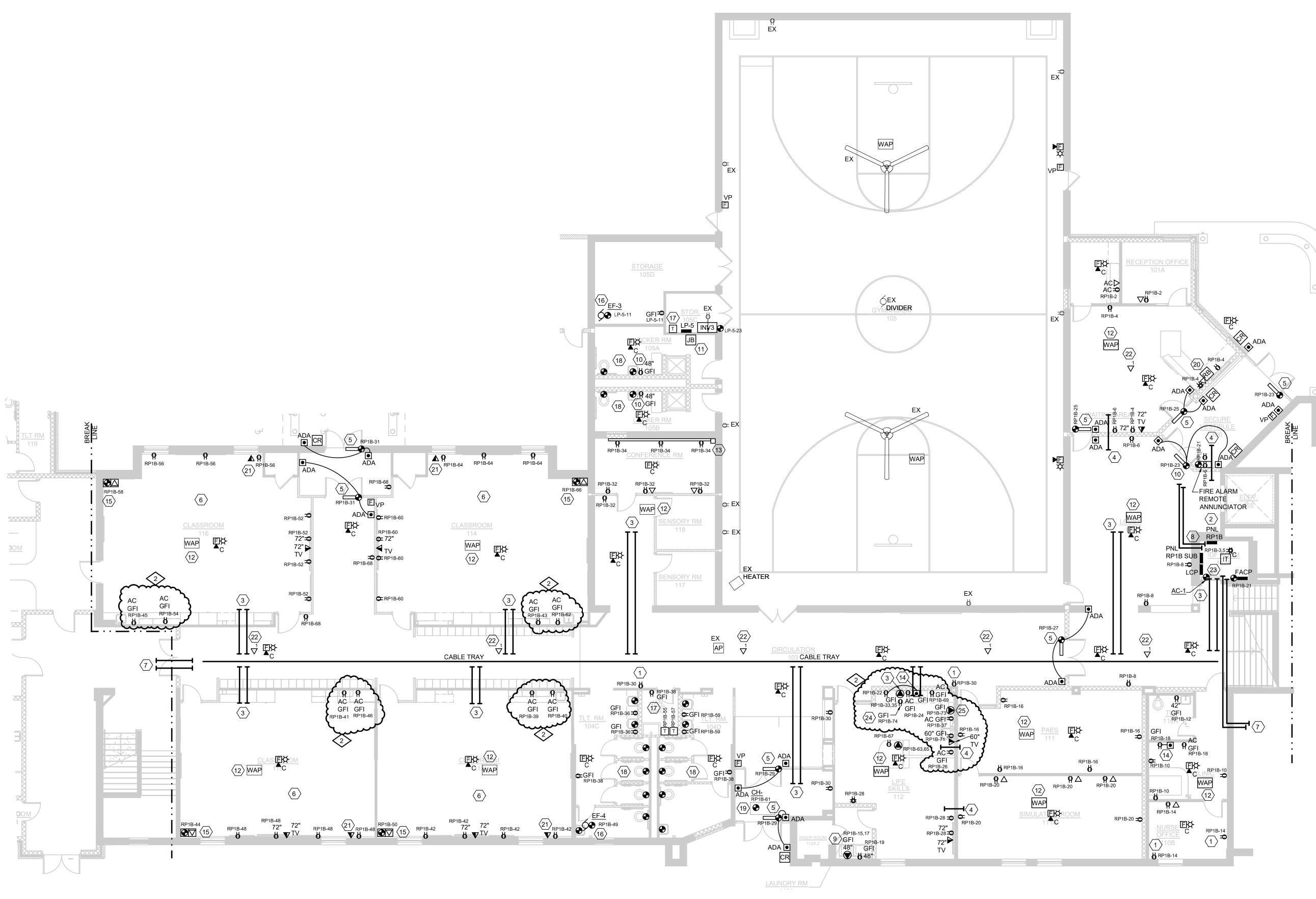
ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

POWER AND SYSTEMS PLAN LOWER LEVEL AREA A

SHEET NUMBER PROJECT NUMBER 2022006.1 PROJECT DATE AUGUST 23, 2023 CHECKED BY



POWER AND SYSTEMS PLAN - MAIN LEVEL SOUTH WING - AREA B

#### POWER & SYSTEMS WIRING METHODS

- 1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH RECEPTACLE CIRCUIT. SHARED NEUTRALS ARE NOT PERMITTED.
- 2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RECEPTACLE. PROVIDE A #12 MINIMUM GROUNDING CONDUCTOR IN EACH RACEWAY. THE USE OF METAL CONDUIT OR RACEWAY FOR A BOND PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
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- 9. ALL BRANCH DEVICES SHALL USE A 4" SQUARE STEEL BOX WITH A SINGLE GANG TRIM RING FOR INTERIOR GYPSUM BOARD WALLS. MASONRY BOXES ARE ACCEPTABLE FOR MASONRY WALL INSTALLATION. NON-METALLIC BOXES ARE NOT ACCEPTABLE FOR THIS
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- 15. VERIFY ADA OPERATOR LOCATIONS WITH ARCHITECTURAL PLANS AND DOOR HARDWARE VENDOR PRIOR TO ROUGH-IN.

### **KEYED NOTES**

✓ NEAR TEACHER'S DESK.

FOR DATA ROUTING TO UPPER LEVEL.

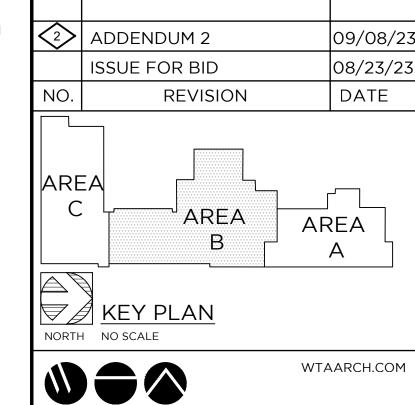
- 1 EXISTING ROUGH-IN TO BE REUSED. FURNISH AND INSTALL NEW DEVICE AND CONDUCTORS.
- (2) FURNISH AND INSTALL NEW PANEL RP1B AND SUBPANEL.
- $\langle$   $_3$   $\rangle$  FURNISH AND INSTALL (2) 2" CONDUIT STUBS FROM CABLE TRAY TO ACCESSIBLE CEILING SPACE. (1) CONDUIT SHALL BE AN EMPTY SPARE.
- 4 FURNISH AND INSTALL (1) 2" CONDUIT STUB THROUGH WALL INTO ACCESSIBLE CEILING SPACE.
- $\langle 5 \rangle$  PROVIDE ROUGH-IN AND POWER CONNECTION TO DOOR OPERATOR.  $\langle 6 \rangle$  PROVIDE 10FT MAINTENANCE LOOP OF CAT6 IN ACCESSIBLE CEILING SPACE
- $\langle 7 \rangle$  INSTALL (4) 2" CONDUIT STUBS THROUGH WALL FOR DATA ROUTING FROM
- $\langle 8 \rangle$  FURNISH AND INSTALL (4) 2" CONDUIT STUBS THROUGH WALL AND CEILING
- $\langle g \rangle$  FURNISH AND INSTALL 30A, 208V RECEPTACLE FOR DRYER. SURFACE MOUNT WASHER AND DRYER RECEPTACLES.
- (10) PROVIDE DEDICATED CIRCUIT TO FEED BATHROOM GFI RECEPTACLE FROM
- NEW PANEL LP-5.  $\langle 11 \rangle$  NEW PANEL LP-5 TO FEED OLD PANEL LP-5 REMAINING LOADS. MOUNT
- JUNCTION BOX IN LOCKER ROOM TO INTERCEPT EXISTING CIRCUITS AND REDIRECT TO NEW PANEL LP-5. MODIFY AND EXTEND CIRCUITS AS
- FURNISH AND INSTALL FLUSH MOUNTED DATA JACK IN CEILING FOR WIRELESS ACCESS POINT.
- $\langle 13 
  angle$  FURNISH AND INSTALL WIREMOLD FROM CEILING DOWN THE WALL IN CORNER. INSTALL HORIZONTAL RUN AT RECEPTACLE HEIGHT.
- $\langle 14 \rangle$  FURNISH AND INSTALL GFI PASS THROUGH DEVICE ABOVE COUNTER FOR FRIDGE RECEPTACLE.
- PROVIDE POWER CONNECTION AND 3 CAT6 DATA CONNECTIONS TO FURNITURE BASE FEED. USE FURRING WALL TO ROUTE POWER AND DATA DOWN TO FURNITURE.
- $\langle 16 \rangle$  PROVIDE POWER CONNECTION TO EXHAUST FAN THROUGH FACTORY MOUNTED DISCONNECT.
- $\langle 17 
  angle$  INSTALL AND WIRE LOW VOLTAGE TRANSFORMER FURNISHED BY MECHANICAL TRADES. RUN LOW VOLTAGE WIRING TO BATHROOM
- AS REQUIRED BY THE MECHANICAL SCHEDULE. (19) PROVIDE 120V POWER CONNECTION TO CABINET HEATER THROUGH

(18) PROVIDE LOW VOLTAGE POWER CONNECTIONS TO BATHROOM SENSORS

- FACTORY MOUNTED AND WIRED DISCONNECT.
- COUNTER FOR DOOR HARDWARE RECEPTION BUTTON.  $\langle 21 
  angle$  HDMI CONNECTION SHALL BE FROM TEACHER'S DESK LOCATION TO

(20) ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN ABOVE RECEPTION

- CLASSROOM MONITOR.
- ELECTRICAL CONTRACTOR SHALL ADD DATA JACK IN CORRIDOR/OPEN OFFICE FOR FUTURE OWNER SPEAKERS/INTERCOM SYSTEM.
- (23) AC-1 SHALL BE POWERED FROM ACCU-1 ON ROOF. 24 ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL MOUNTING LOCATION | MIDLAND COUNTY ESA AND HEIGHT OF MICROWAVE RECEPTACLE WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL ELECTRICAL ENTRANCE FOR DISHWASHER WITH PLUMBING USING ADA DISHWASHER INSTALLATION SHEET.





Saginaw, Michigan 48607 989 752 8107

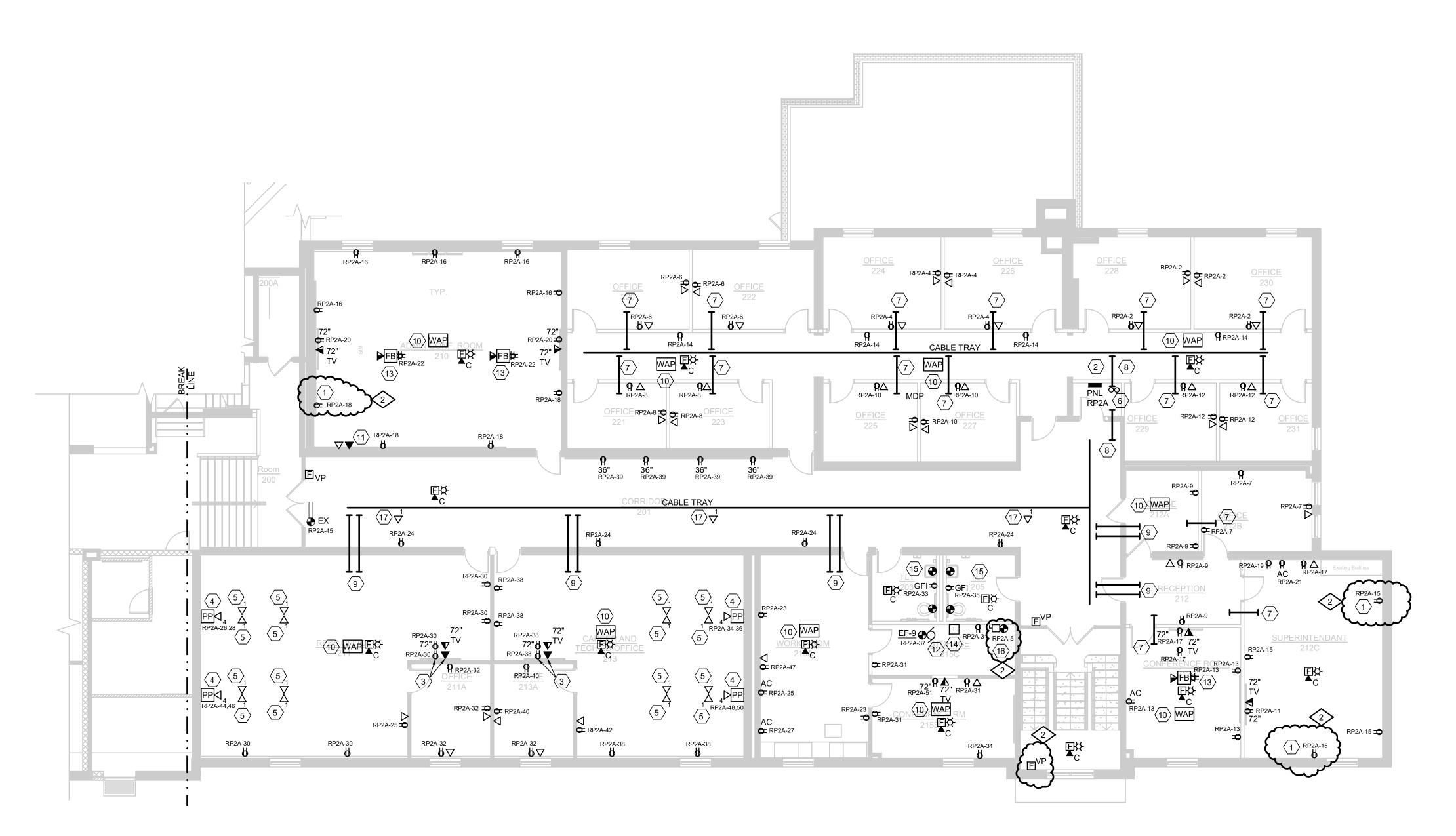
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PROJECT TITLE ADDITION AND RENOVATION:

MIDLAND, MICHIGAN

POWER AND SYSTEMS PLAN MAIN LEVEL SOUTH WING - AREA B

PROJECT NUMBER SHEET NUMBER 2022006.1 PROJECT DATE AUGUST 23, 2023 CHECKED BY



NORTH POWER AND SYSTEMS PLAN - MAIN LEVEL NORTH WING - AREA A

#### POWER & SYSTEMS WIRING METHODS

 PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH RECEPTACLE CIRCUIT. SHARED NEUTRALS ARE NOT PERMITTED.

- PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RECEPTACLE. PROVIDE A #12 MINIMUM GROUNDING CONDUCTOR IN EACH RACEWAY. THE USE OF METAL CONDUIT OR RACEWAY FOR A BOND PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
- 3. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.
- 4. ALL NEW RECEPTACLES AND VOICE/DATA OUTLETS SHALL BE MOUNTED AT A MINIMUM OF 16" TO THE BOTTOM OF BOX ABOVE THE FINISHED FLOOR, UNLESS NOTED OTHERWISE. 18" IS ONLY AN ACCEPTABLE MOUNTING HEIGHT PENDING FOR MASONRY COARSE LINE INSTALLATION. COORDINATE ALL DEVICE HEIGHTS WITH ARCHITECT.
- ELECTRICAL TRADES SHALL CONFIRM VOICE/DATA AND RECEPTACLE LOCATION WITH THE OWNER'S FURNITURE LAYOUTS AND INSTALLATION.
- 6. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
- GENERAL PURPOSE DUPLEX RECEPTACLES SHALL BE WHITE, GRAY OR IVORY AS ADVISED BY THE ARCHITECT.
- 8. FIRE ALARM WIRING INSTALLED ABOVE THE FINISHED CEILING IS ACCEPTABLE TO USE THE FREE-AIR METHOD. USE "J" HOOKS OR "D" RINGS FOR SUPPORT METHODS. PROVIDE PLENUM RATED CABLE FOR THE ENTIRE PROJECT.
- 9. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 NATIONAL FIRE ALARM CODE, BUREAU OF FIRE SERVICES, 2003 MICHIGAN BARRIER FREE DESIGN MANUAL AND OTHER APPLICABLE CODES. MOUNTING HEIGHT REQUIREMENTS:
- WALL MOUNTED AUDIO/VISUAL UNITS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. CEILING MOUNTED DEVICES ARE ACCEPTABLE AND ARE NOTED ON THE DRAWINGS.
- MANUAL PULL STATIONS SHALL BE MOUNTED 48" MAXIMUM TO THE TOP OF BOX FROM THE FINISHED FLOOR.
- 9. ALL BRANCH DEVICES SHALL USE A 4" SQUARE STEEL BOX WITH A SINGLE GANG TRIM RING FOR INTERIOR GYPSUM BOARD WALLS. MASONRY BOXES ARE ACCEPTABLE FOR MASONRY WALL INSTALLATION. NON-METALLIC BOXES ARE NOT ACCEPTABLE FOR THIS PROJECT.
- 10. J-HOOKS AND CONDUIT OR CABLE TRAY SHALL BE USED FOR THE LOW-VOLTAGE SYSTEM WIRING INCLUDING BUT NOT LIMITED TO: FIRE ALARM, VOICE, DATA, PA, LIGHTING CONTROL, ETC.
- USE MINIMUM 1" CONDUIT SIZE FOR VOICE/DATA OUTLET DROPS. EXTEND THE CONDUIT TO THE ADJACENT CORRIDOR ACCESSIBLE CEILING SPACE.
- 12. MC CABLE IS ONLY ACCEPTABLE FOR FINAL LIGHT FIXTURE CONNECTIONS ABOVE THE LAY-IN CEILING ON THIS PROJECT, UNLESS SPECIFICALLY NOTED.
- 13. RECEPTACLES, VOICE AND DATA OUTLET LOCATIONS SHOWN IN THE OFFICES, WORKROOM, CONFERENCE/LOUNGE AREA ARE BASED ON WORKSTATION, CASEWORK SHOWN AND THE ANTICIPATED OFFICE FURNITURE ARRANGEMENTS. CONFIRM THE FINAL LOCATIONS DURING THE ROUGH-IN PHASE.
- 14. VERIFY LOCATION AND ORIENTATION OF EXISTING STRUCTURAL FRAMING PRIOR TO CORING FLOOR FOR PENETRATION. EXISTING FRAMING SHALL NOT BE CUT, ADJUSTED, OR CHANGED IN ANY WAY WITHOUT APPROVAL OF STRUCTURAL ENGINEER AND ARCHITECT.
- 15. VERIFY ADA OPERATOR LOCATIONS WITH ARCHITECTURAL PLANS AND DOOR HARDWARE VENDOR PRIOR TO ROUGH-IN.

#### KEYED NOTES

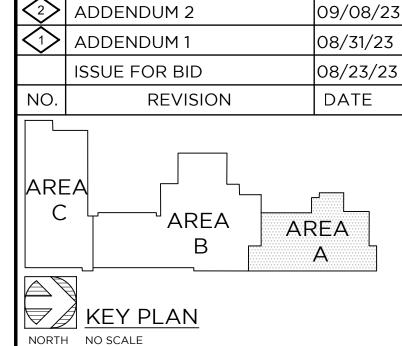
- $\fbox{1}$  EXISTING ROUGH-IN TO BE REUSED. FURNISH AND INSTALL NEW DEVICE AND CONDUCTORS.
- $\overline{\langle 2 \rangle}$  FURNISH AND INSTALL NEW PANEL RP2A. REFER TO ONE LINE.
- FURNISH AND INSTALL POWER AND HDMI TV PORT 6" ABOVE DESK TO CENTERLINE OF ROUGH-INS.
- 4 ROUTE POWER AND DATA THROUGH POWER POLE. EACH DESK SHALL HAVE ONE RECEPTACLE AND ONE DATA PORT.
- $\langle 5 \rangle$  UTILIZE POWER POLE FOR POWER AND RACEWAY FOR DATA TO DESK.
- 6 FURNISH AND INSTALL (2) 4" CONDUITS THROUGH FLOOR FOR DATA
- 7 FURNISH AND INSTALL (1) 2" CONDUIT INTO ACCESSIBLE CEILING SPACE.

  8 FURNISH AND INSTALL (1) 4" CONDUIT FOR DATA ROUTING TO CABLE TRAY.
- 9 FURNISH AND INSTALL (2) 2" CONDUITS INTO ACCESSIBLE CEILING SPACE.
  (1) CONDUIT SHALL BE AN EMPTY SPARE.
- (10) INSTALL FLUSH MOUNTED DATA JACK IN CEILING FOR WIRELESS ACCESS POINT.
- ROUTE 1" CONDUIT FROM HDMI OUTLET TO ACCESSIBLE CEILING SPACE AND TO ACCESSIBLE CEILING SPACE IN FLOOR BELOW. (1) HDMI WILL BE CONNECTED TO EACH FLOORBOX, AND (1) HDMI WILL BE CONNECTED TO
- EACH TV. (4) CONNECTIONS IN TOTAL WILL BE AVAILABLE AT HDMI OUTLET.

  (12) PROVIDE POWER CONNECTION TO EXHAUST FAN THROUGH FACTORY
- MOUNTED DISCONNECT.

  (13) FURNISH AND INSTALL FIRE RATED POKE-THRU FLOORBOX. REFER TO
- ELECTRICAL SCHEDULES.

  (14) INSTALL AND WIRE LOW VOLTAGE TRANSFORMER FURNISHED BY MECHANICAL TRADES. RUN LOW VOLTAGE WIRING TO BATHROOM
- PROVIDE LOW VOLTAGE POWER CONNECTIONS TO BATHROOM SENSORS AS REQUIRED BY THE MECHANICAL SCHEDULE.
- (16) FURNISH AND INSTALL 30A NEMA 1 DISCONNECT UNDERNEATH SINK CABINET. PROVIDE 120V POWER CONNECTION FROM DISCONNECT TO
- ELECTRICAL CONTRACTOR SHALL ADD DATA JACK IN CORRIDOR FOR FUTURE OWNER SPEAKERS/INTERCOM SYSTEM.





WTA ARCHITECTS

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WTAARCH.COM

PROJECT TITLE

ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

POWER AND SYSTEMS PLAN
MAIN LEVEL
NORTH WING - AREA A

PROJECT NUMBER

2022006.1

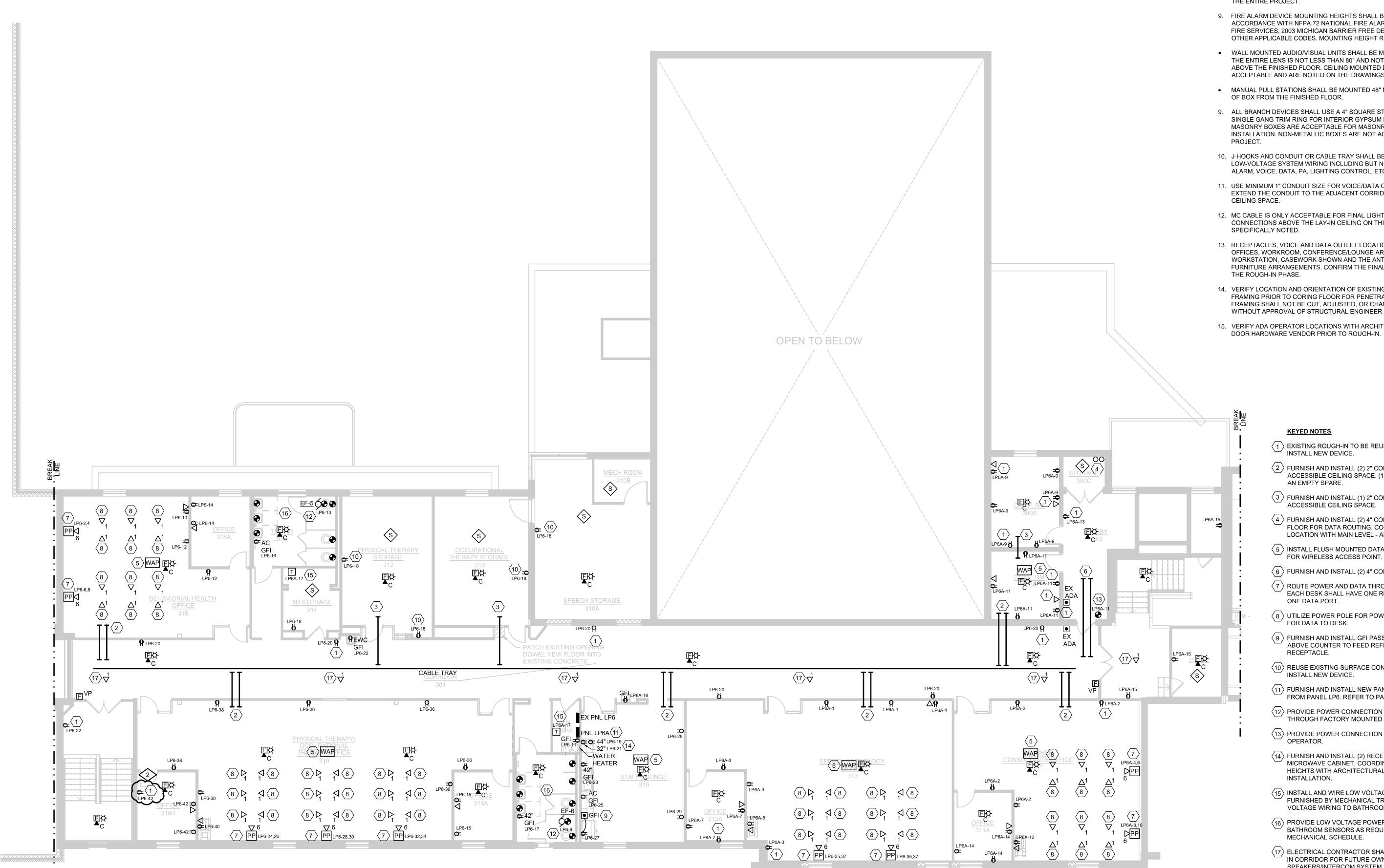
PROJECT DATE

AUGUST 23, 2023

CHECKED BY

E2.08

SHEET NUMBER



#### POWER & SYSTEMS WIRING METHODS

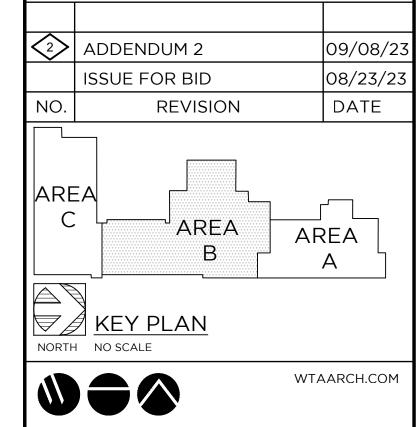
- 1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH RECEPTACLE CIRCUIT. SHARED NEUTRALS ARE NOT PERMITTED.
- 2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RECEPTACLE. PROVIDE A #12 MINIMUM GROUNDING CONDUCTOR IN EACH RACEWAY. THE USE OF METAL CONDUIT OR RACEWAY FOR A BOND PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
- 3. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.
- 4. ALL NEW RECEPTACLES AND VOICE/DATA OUTLETS SHALL BE MOUNTED AT A MINIMUM OF 16" TO THE BOTTOM OF BOX ABOVE THE FINISHED FLOOR, UNLESS NOTED OTHERWISE. 18" IS ONLY AN ACCEPTABLE MOUNTING HEIGHT PENDING FOR MASONRY COARSE LINE INSTALLATION. COORDINATE ALL DEVICE HEIGHTS WITH ARCHITECT.
- 5. ELECTRICAL TRADES SHALL CONFIRM VOICE/DATA AND RECEPTACLE LOCATION WITH THE OWNER'S FURNITURE LAYOUTS AND
- 6. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
- 7. GENERAL PURPOSE DUPLEX RECEPTACLES SHALL BE WHITE, GRAY OR IVORY AS ADVISED BY THE ARCHITECT.
- 8. FIRE ALARM WIRING INSTALLED ABOVE THE FINISHED CEILING IS ACCEPTABLE TO USE THE FREE-AIR METHOD. USE "J" HOOKS OR "D" RINGS FOR SUPPORT METHODS. PROVIDE PLENUM RATED CABLE FOR THE ENTIRE PROJECT.
- 9. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 NATIONAL FIRE ALARM CODE, BUREAU OF FIRE SERVICES, 2003 MICHIGAN BARRIER FREE DESIGN MANUAL AND OTHER APPLICABLE CODES. MOUNTING HEIGHT REQUIREMENTS:
- WALL MOUNTED AUDIO/VISUAL UNITS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. CEILING MOUNTED DEVICES ARE ACCEPTABLE AND ARE NOTED ON THE DRAWINGS.
- MANUAL PULL STATIONS SHALL BE MOUNTED 48" MAXIMUM TO THE TOP
- 9. ALL BRANCH DEVICES SHALL USE A 4" SQUARE STEEL BOX WITH A SINGLE GANG TRIM RING FOR INTERIOR GYPSUM BOARD WALLS. MASONRY BOXES ARE ACCEPTABLE FOR MASONRY WALL INSTALLATION. NON-METALLIC BOXES ARE NOT ACCEPTABLE FOR THIS
- 10. J-HOOKS AND CONDUIT OR CABLE TRAY SHALL BE USED FOR THE LOW-VOLTAGE SYSTEM WIRING INCLUDING BUT NOT LIMITED TO: FIRE ALARM, VOICE, DATA, PA, LIGHTING CONTROL, ETC.
- 11. USE MINIMUM 1" CONDUIT SIZE FOR VOICE/DATA OUTLET DROPS. EXTEND THE CONDUIT TO THE ADJACENT CORRIDOR ACCESSIBLE
- 12. MC CABLE IS ONLY ACCEPTABLE FOR FINAL LIGHT FIXTURE CONNECTIONS ABOVE THE LAY-IN CEILING ON THIS PROJECT, UNLESS
- 13. RECEPTACLES, VOICE AND DATA OUTLET LOCATIONS SHOWN IN THE OFFICES, WORKROOM, CONFERENCE/LOUNGE AREA ARE BASED ON WORKSTATION, CASEWORK SHOWN AND THE ANTICIPATED OFFICE FURNITURE ARRANGEMENTS. CONFIRM THE FINAL LOCATIONS DURING THE ROUGH-IN PHASE.
- 14. VERIFY LOCATION AND ORIENTATION OF EXISTING STRUCTURAL FRAMING PRIOR TO CORING FLOOR FOR PENETRATION. EXISTING FRAMING SHALL NOT BE CUT, ADJUSTED, OR CHANGED IN ANY WAY WITHOUT APPROVAL OF STRUCTURAL ENGINEER AND ARCHITECT.
- 15. VERIFY ADA OPERATOR LOCATIONS WITH ARCHITECTURAL PLANS AND

**KEYED NOTES** 

- 1 EXISTING ROUGH-IN TO BE REUSED. FURNISH AND / INSTALL NEW DEVICE.
- FURNISH AND INSTALL (2) 2" CONDUITS INTO ACCESSIBLE CEILING SPACE. (1) CONDUIT SHALL BE AN EMPTY SPARE.
- FURNISH AND INSTALL (1) 2" CONDUIT INTO ACCESSIBLE CEILING SPACE.
- 4 FURNISH AND INSTALL (2) 4" CONDUITS THROUGH FLOOR FOR DATA ROUTING. COORDINATE LOCATION WITH MAIN LEVEL AREA B.
- 5 INSTALL FLUSH MOUNTED DATA JACK IN CEILING FOR WIRELESS ACCESS POINT.
- 6 FURNISH AND INSTALL (2) 4" CONDUITS IN CEILING. ROUTE POWER AND DATA THROUGH POWER POLE. EACH DESK SHALL HAVE ONE RECEPTACLE AND
- 8 UTILIZE POWER POLE FOR POWER AND RACEWAY FOR DATA TO DESK.
- 9 FURNISH AND INSTALL GFI PASS THROUGH DEVICE ABOVE COUNTER TO FEED REFRIGERATOR
- (10) REUSE EXISTING SURFACE CONDUIT AND BOX. INSTALL NEW DEVICE.
- 11 FURNISH AND INSTALL NEW PANEL LP6A. FEED FROM PANEL LP6. REFER TO PANEL SCHEDULES.
- 12 PROVIDE POWER CONNECTION TO EXHAUST FAN THROUGH FACTORY MOUNTED DISCONNECT.
- PROVIDE POWER CONNECTION TO ADA DOOR OPERATOR.

ONE DATA PORT.

- FURNISH AND INSTALL (2) RECEPTACLES FOR DUAL MICROWAVE CABINET. COORDINATE DEVICE HEIGHTS WITH ARCHITECTURAL DETAIL PRIOR TO INSTALLATION.
- 15 INSTALL AND WIRE LOW VOLTAGE TRANSFORMER FURNISHED BY MECHANICAL TRADES. RUN LOW VOLTAGE WIRING TO BATHROOM SENSORS.
- PROVIDE LOW VOLTAGE POWER CONNECTIONS TO BATHROOM SENSORS AS REQUIRED BY THE MECHANICAL SCHEDULE.
- ELECTRICAL CONTRACTOR SHALL ADD DATA JACK IN CORRIDOR FOR FUTURE OWNER SPEAKERS/INTERCOM SYSTEM.





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PROJECT TITLE ADDITION AND RENOVATION:

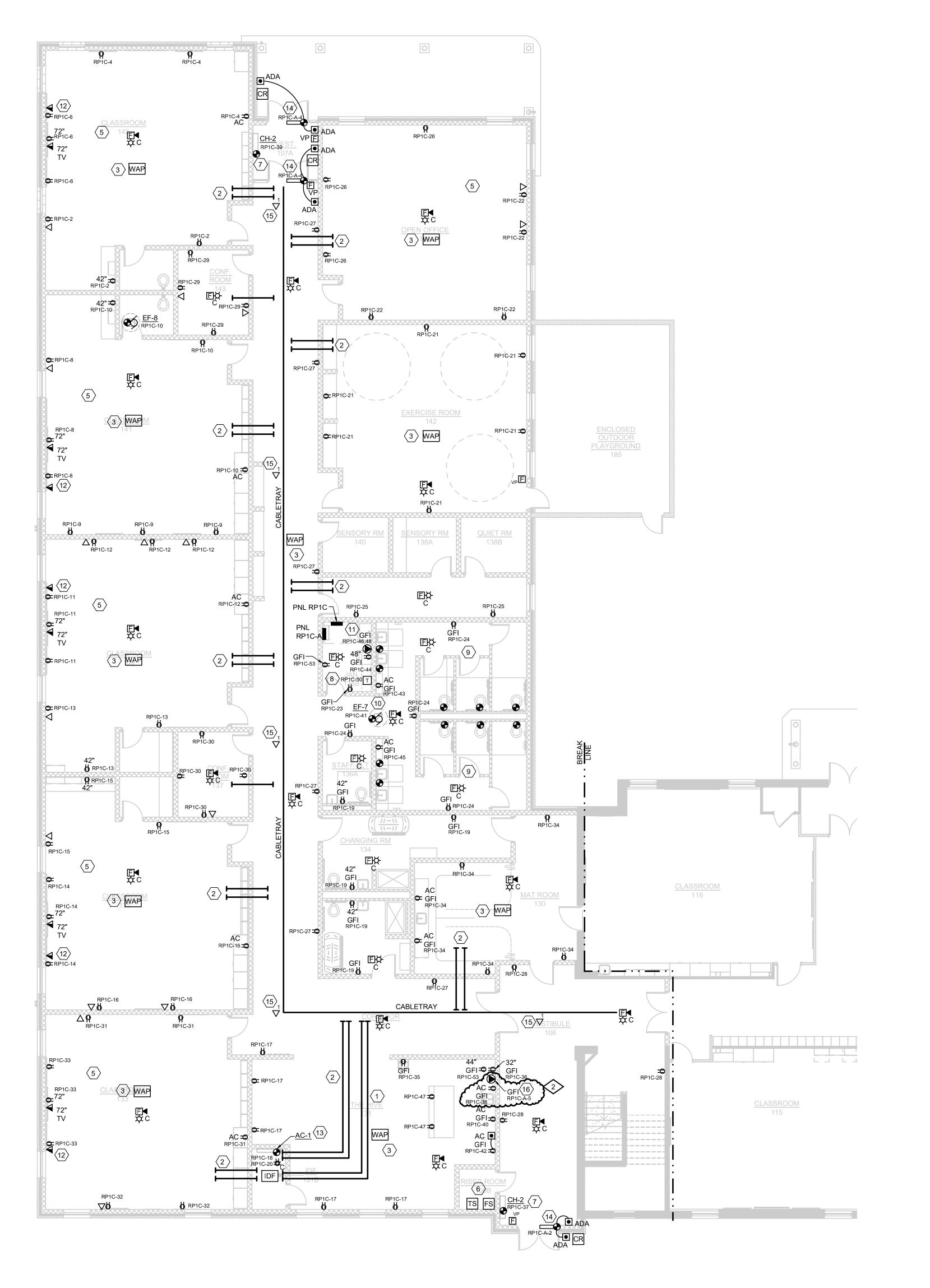
MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

POWER AND SYSTEMS PLAN **UPPER LEVEL** AREA B

PROJECT NUMBER SHEET NUMBER 2022006.1 PROJECT DATE E2.09 AUGUST 23, 2023 CHECKED BY

NORTH POWER AND SYSTEMS PLAN - UPPER LEVEL - AREA B



#### POWER & SYSTEMS WIRING METHODS

- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH RECEPTACLE CIRCUIT. SHARED NEUTRALS ARE NOT PERMITTED.
- 2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RECEPTACLE. PROVIDE A #12 MINIMUM GROUNDING CONDUCTOR IN EACH RACEWAY. THE USE OF METAL CONDUIT OR RACEWAY FOR A BOND PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
- 3. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.
- 4. ALL NEW RECEPTACLES AND VOICE/DATA OUTLETS SHALL BE MOUNTED AT A MINIMUM OF 16" TO THE BOTTOM OF BOX ABOVE THE FINISHED FLOOR, UNLESS NOTED OTHERWISE. 18" IS ONLY AN ACCEPTABLE MOUNTING HEIGHT PENDING FOR MASONRY COARSE LINE INSTALLATION. COORDINATE ALL DEVICE HEIGHTS WITH ARCHITECT.
- ELECTRICAL TRADES SHALL CONFIRM VOICE/DATA AND RECEPTACLE LOCATION WITH THE OWNER'S FURNITURE LAYOUTS AND INSTALLATION.
- 6. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
- 7. GENERAL PURPOSE DUPLEX RECEPTACLES SHALL BE WHITE, GRAY OR IVORY AS ADVISED BY THE ARCHITECT.
- FIRE ALARM WIRING INSTALLED ABOVE THE FINISHED CEILING IS ACCEPTABLE TO USE THE FREE-AIR METHOD. USE "J" HOOKS OR "D" RINGS FOR SUPPORT METHODS. PROVIDE PLENUM RATED CABLE FOR THE ENTIRE PROJECT.
- 9. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 NATIONAL FIRE ALARM CODE, BUREAU OF FIRE SERVICES, 2003 MICHIGAN BARRIER FREE DESIGN MANUAL AND OTHER APPLICABLE CODES. MOUNTING HEIGHT REQUIREMENTS:
- ABOVE THE FINISHED FLOOR. CEILING MOUNTED DEVICES ARE ACCEPTABLE AND ARE NOTED ON THE DRAWINGS.

   MANUAL PULL STATIONS SHALL BE MOUNTED 48" MAXIMUM TO THE TOP

 WALL MOUNTED AUDIO/VISUAL UNITS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96"

OF BOX FROM THE FINISHED FLOOR.

9. ALL BRANCH DEVICES SHALL USE A 4" SQUARE STEEL BOX WITH A SINGLE GANG TRIM RING FOR INTERIOR GYPSUM BOARD WALLS. MASONRY BOXES ARE ACCEPTABLE FOR MASONRY WALL

INSTALLATION. NON-METALLIC BOXES ARE NOT ACCEPTABLE FOR THIS

- 10. J-HOOKS AND CONDUIT OR CABLE TRAY SHALL BE USED FOR THE LOW-VOLTAGE SYSTEM WIRING INCLUDING BUT NOT LIMITED TO: FIRE ALARM, VOICE, DATA, PA, LIGHTING CONTROL, ETC.
- 11. USE MINIMUM 1" CONDUIT SIZE FOR VOICE/DATA OUTLET DROPS. EXTEND THE CONDUIT TO THE ADJACENT CORRIDOR ACCESSIBLE CEILING SPACE.
- 12. MC CABLE IS ONLY ACCEPTABLE FOR FINAL LIGHT FIXTURE CONNECTIONS ABOVE THE LAY-IN CEILING ON THIS PROJECT, UNLESS SPECIFICALLY NOTED.
- 13. RECEPTACLES, VOICE AND DATA OUTLET LOCATIONS SHOWN IN THE OFFICES, WORKROOM, CONFERENCE/LOUNGE AREA ARE BASED ON WORKSTATION, CASEWORK SHOWN AND THE ANTICIPATED OFFICE FURNITURE ARRANGEMENTS. CONFIRM THE FINAL LOCATIONS DURING THE ROUGH-IN PHASE.
- 14. VERIFY LOCATION AND ORIENTATION OF EXISTING STRUCTURAL FRAMING PRIOR TO CORING FLOOR FOR PENETRATION. EXISTING FRAMING SHALL NOT BE CUT, ADJUSTED, OR CHANGED IN ANY WAY WITHOUT APPROVAL OF STRUCTURAL ENGINEER AND ARCHITECT.
- 15. VERIFY ADA OPERATOR LOCATIONS WITH ARCHITECTURAL PLANS AND DOOR HARDWARE VENDOR PRIOR TO ROUGH-IN.

# KEYED NOTES

GROUND BAR.

PROJECT.

- TURNISH AND INSTALL (4) 2" CONDUIT STUBS IN ACCESSIBLE CEILING SPACE. DESIGN INTENT IS TO PROVIDE CONDUIT PATH FROM MAIN LEVEL AREA B IDF ROOM TO AREA C ADDITION IDF ROOM.
- 2 FURNISH AND INSTALL (2) 2" CONDUIT STUBS FROM CABLE TRAY TO ACCESSIBLE CEILING SPACE. (1) CONDUIT SHALL BE AN EMPTY SPARE.
- $\stackrel{\textstyle \frown}{}$  INSTALL FLUSH MOUNTED DATA JACK IN CEILING FOR WIRELESS ACCESS POINT.
- SPACE TO CABLE TRAY FOR DATA ROUTING.

  (5) PROVIDE 10 FT MAINTENANCE LOOP OF CAT6 IN ACCESSIBLE CEILING

 $\langle 4 \rangle$  FURNISH AND INSTALL (4) 2" CONDUIT STUBS FROM IDF ROOM CEILING

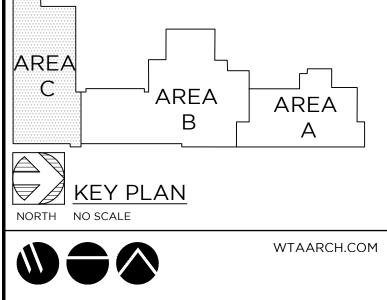
- SPACE NEAR TEACHER'S DESK.

  6 FURNISH AND INSTALL A #3/0 BONDING CONDUCTOR TO NEW BUILDING STEEL AND NEW WATER SERVICE AND BOND TO THE EXISTING MDP
- 7 PROVIDE 120V POWER CONNECTION TO CABINET HEATER THROUGH FACTORY MOUNTED AND WIRED DISCONNECT.
- 8 INSTALL AND WIRE LOW VOLTAGE TRANSFORMER FURNISHED BY MECHANICAL TRADES. RUN LOW VOLTAGE WIRING TO BATHROOM SENSORS.
- 9 PROVIDE LOW VOLTAGE POWER CONNECTIONS TO BATHROOM SENSORS AS REQUIRED BY THE MECHANICAL SCHEDULE.
- PROVIDE POWER CONNECTION TO EXHAUST FAN THROUGH FACTORY MOUNTED DISCONNECT.
- (11) FURNISH AND INSTALL 30A, 208V RECEPTACLE FOR DRYER. SURFACE
- MOUNT WASHER AND DRYER RECEPTACLES.  $\langle 12 \rangle$  HDMI CONNECTION SHALL BE FROM TEACHER'S DESK LOCATION TO
- CLASSROOM MONITOR.

  (13) AC-1 SHALL BE POWERED FROM ACCU-1 ON ROOF.
- $\langle 14 \rangle$  PROVIDE ROUGH-IN AND POWER CONNECTION TO DOOR OPERATOR.
- $\langle 14 \rangle$  PROVIDE ROUGH-IN AND POWER CONNECTION TO DOOR OPERATOR.  $\langle 15 \rangle$  ELECTRICAL CONTRACTOR SHALL ADD DATA JACK IN CORRIDOR FOR

OWNER FUTURE SPEAKERS/INTERCOM.

16 ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL ELECTRICAL ENTRANCE FOR DISHWASHER WITH PLUMBING USING ADA DISHWASHER INSTALLATION SHEET.



09/08/23

08/23/23

DATE



100 S Jefferson Ave, Suite 601 Saginaw, Michigan 48607

 $\langle 2 \rangle$  ADDENDUM 2

ISSUE FOR BID

REVISION

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ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

MIDLAND, MICHIGAN

CHECKED BY

POWER AND SYSTEMS PLAN
ADDITION
AREA C

PROJECT NUMBER

2022006.1

PROJECT DATE
AUGUST 23, 2023

SHEET NUMBER

E2.10

NORTH POWER AND SYSTEMS PLAN - ADDITION - AREA C

NEW							
LIGHTIN	G CONTROL PANEL: LCP						
RELAY	ZONE CONTROLLED	CHANNEL	CIRCUIT	RELAY	ZONE CONTROLLED	CHANNEL	CIRCUIT
1	CORRIDOR 301 LINEARS	В	LP6-1	13	ADDITION CORR. DOWNLIGHTS	В	RP1C-7
2	CORRIDOR 301 DOWNLIGHTS	В	LP6-1	14	HIVE LIGHTS	В	RP1C-3
3	ALL CANOPY DOWNLIGHTS	Α	VARIOUS	15	SPARE		
4	SECURE VESTIBULE		RP1B-1	16	SPARE		
5	LOBBY	В	RP1B-1,7	17			
6	CORRIDOR 104 LINEARS	В	RP1B-7,9	18			
7	CORRIDOR 104 DOWNLIGHTS	В	RP1B-7	19			
8	ADDITION CORR.	В	RP1C-7	20			
9	MAIN LEVEL N. WING CORRIDOR	В	RP2A-3	21			
10	MAIN LEVEL N. WING CORR. DOWNLIGHTS	В	RP2A-3	22			
11	EXTERIOR LIGHTS	Α	RP1C-49,51	23			
12	ADDITION CORR. LINEARS	В	RP1C-7	24			
CHANNELS:	A PHOTOCELL DUSK TILL 11PM. 4AM TO	DAWN.					
	B KEYED SWITCH OVERRIDE. OCC SENS	OR CONTRO	DL.				
	C NOT USED						
NOTES:	1 ACUITY #ARP						
	2						

#### LIGHTING CONTROL EXECUTIVE SUMMARY

KEYED SWITCH MANUAL ON/OFF, RAISE/LOWER. MOTION AUTO ON TO 50%, AUTO OFF AFTER 20 MIN. NO ACTIVITY.

KEYED SWITCH MANUAL ON/OFF, RAISE/LOWER. SEPARATE CONTROL OF DOWNLIGHTS AND LINEARS. MOTION AUTO ON TO LAST SETTING. AUTO OFF AFTER 20 MIN. NO ACTIVITY.

## MANUAL ON/OFF, RAISE/LOWER. SEPARATE CONTROL OF MAIN CLASSROOM

LIGHTS AND TEACHER BOARD LIGHTING. AUTO ON TO 50%. AUTO OFF AFTER 20 MIN. NO ACTIVITY.

## OFFICES MANUAL ON/OFF, RAISE/LOWER. AUTO OFF AFTER 20 MIN. NO ACTIVITY.

ADMIN CONFERENCE ROOM SEPARATE MANUAL ON/OFF, RAISE/LOWER CONTROL OF 3 LIGHTING ZONES.

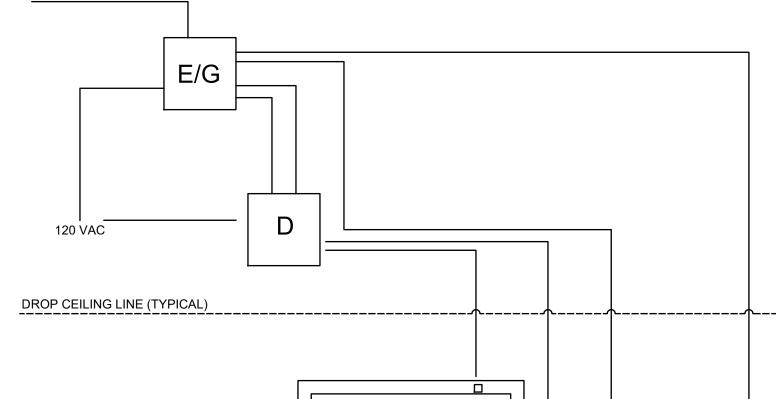
#### CONFERENCE TABLE LINEARS MOTION AUTO ON TO 50%. ALL LIGHTS AUTO OFF AFTER 20 MIN. NO ACTIVITY.

**EXTERIOR CANOPY DOWNLIGHTS** DUSK TO 4PM. 4AM TO DAWN.

EXTERIOR BUILDING MOUNT LIGHTING ALL LIGHTS TO BE INSTALLED WITH INTEGRATED PHOTOSENSORS. ALL FIXTURES SHALL WIRELESSLY COMMUNICATE TO TURN ON AND OFF SYNCHRONOUSLY. AUTO ON AT DUSK, OFF AT 11PM. AUTO ON AT 6AM, OFF AT DUSK.

- A EXIT DEVICE B POWER TRANSFER (ELECTRIC CRASH BAR, STRIKE, OR LATCH)
- C CARDSLOT/SHROUD/MOUNTING PLATE D POWER SUPPLY (ONLY NEEDED WITH CRASH BARS AND/OR DOORS WITH HANDICAP OPENERS)
- E ENCLOSURE AND POWER SUPPLY F DOOR POSITION SWITCH
- G MASTER/DOOR CONTROLLER H HANDICAP PUSH BUTTON

COMM. CIRCUIT



- "A, B" SUPPLIED AND INSTALLED BY DOOR SUPPLIER.
- "C" SUPPLIED AND INSTALLED BY OWNER
- "D" SUPPLIED BY DOOR SUPPLIER, INSTALLED BY ELECTRICIANS.
- "E" SUPPLIED BY DOOR SUPPLIER, INSTALLED BY ELECTRICIANS.
- "F" SUPPLIED AND INSTALLED BY DOOR SUPPLIER.

ELECTRICIAN. TIE IN AT "C" AND "E" BY OWNER.

- 120 VAC SUPPLY THROUGH SWITCH (TYP.) TO "D" AND "E" NECESSARY,
- CAN BE SAME CIRCUIT. ALL TIE IN'S BY ELECTRICIANS. "COMM CIRCUIT" TO "E" BY ELECTRICAN, PATHWAY AS NECESSARY (1/2"
- EMT) BY ELECTRICIANS. PATHWAY BETWEEN "E" AND "C" BY ELECTRICIANS (1/2" EMT) INSIDE WALL (TYP.) TERMINATES TO STANDARD SINGLE GANG BOX IN WALL, 48" ON CENTER. "BEHIND" "C". BOX BEHIND "C" SHOULD BE FLUSH WITH EXTERIOR BUILDING SURFACE". 4 CONDUCTOR INSIDE PATHWAY BY
- PATHWAY BETWEEN "E" AND "D" BY ELECTRICIANS (2 1/2" EMT, 1-POWER, 1-COMM.)
- PATHWAY AND WIRING BETWEEN "D" AND "B" BY ELECTRICIANS (1/2" EMT, WIRE BASED ON DOOR SPEC. REQUIREMENTS, TIE IN AT "B" TBD BETWEEN ELECTRICIANS AND DOOR SUPPLIER.
- PATHWAY FROM "D" TO "F" BY ELECTRICIANS (1/2" EMT,) 2 CONDUCTOR WIRING FROM "E" TO "F" VIA "D" BY ELECTRICIAN. TIE IN AT "D" BY
- INPUT FROM "H" TO "G" NECESSARY PATHWAY AND WIRE BY ELECTRICIAN, TIE IN AT "E" BY OWNER.

# CARD READER SCHEMATIC

### LIGHTING SCHEDULE

A4 4' LINEAR LED FLAT PANEL. 2000 LUMEN, 80 CRI, 4000K, FLAT FRAME, SATIN WHITE LENS, 1%MIN DIMMING, 120-277V, MATTE WHITE FINISH. 500LM/FT, LITHONIA #LSIX 4FT 2000LM 80CRI 40K FFR SWL MIN1 EZT MVOLT MW

······ A4E SAME AS TYPE A4 EXCEPT 10W EMERGENCY BATTERY PACK. A8 SAME AS TYPE A4 EXCEPT 8' LONG, 4000 LUMENS, 29.8 WATT. A8E SAME AS TYPE A8 EXCEPT 10W EMERGENCY BATTERY PACK.

B4 4' LINEAR LED FLAT PANEL. 3000 LUMEN, 80 CRI, 4000K, FLAT FRAME, SATIN WHITE LENS, 1%MIN DIMMING, 120-277V, MATTE WHITE FINISH. 750 LM/FT, 24.7 WATT. LITHONIA #LSIX 4FT 3000LM 80CRI 40K FFR SWL MIN1 EZT MVOLT MW

B4E SAME AS TYPE B4 EXCEPT 10W EMERGENCY BATTERY PACK. \_\_\_\_\_\_

B8S SAME AS TYPE B4 EXCEPT 8' LONG, 6000 LUMENS, 44.3 WATT WITH INTEGRAL WIRELESS OCCUPANCY SENSOR. #NLTAIR2 PIR SV

INTEGRAL WIRELESS OCCUPANCY SENSOR. #E10WLCP NLTAIR2 PIR C4 4' LINEAR LED FLAT PANEL. 4000 LUMEN, 80 CRI, 4000K, FLAT FRAME, SATIN

B8SE SAME AS TYPE B8 EXCEPT WITH 10 WATT EMERGENCY BATTERY AND

WHITE LENS, 1%MIN DIMMING, 120-277V, MATTE WHITE FINISH. 1000 LM/FT, LITHONIA #LSIX 4FT 4000LM 80CRI 40K FFR SWL MIN1 EZT MVOLT MW C4E SAME AS TYPE C4 EXCEPT HAS EMERGENCY BATTERY PACK.

C8S SAME AS TYPE C4 EXCEPT 8' LONG WITH INTEGRAL WIRELESS OCCUPANCY SENSOR. #NLTAIR2 PIR

E LED SINGLE SIDED EXIT SIGN, RED LETTERS. LITHONIA #LQM

#### EWH SAME AS TYPE E EXCEPT WITH WIRE GUARD .....

- E2 SAME AS TYPE E BUT DOUBLE SIDED
- E/RH LED EXIT WITH HIGH OUTPUT BATTERY, RED LETTERS, WHITE. LITHONIA #LHQM LED HO RO
- RHW WET LOCATION EMERGENCY REMOTE HEAD LED, 320 LUMEN, 3.3 WATT, SINGLE HEAD, DARK BRONZE FINISH. LITHONIA #ELMRW SP640L DDBTXD SGL
- F NOT USED G1 4" ROUND LED DOWNLIGHT, 3500K, 1000 LUMENS, 10.6 WATT, WHITE TRIM, MATTE DIFFUSE FINISH, WHITE FLANGE, 120-277V, 1%MIN DIMMING. LITHONIA #LDN4 35/10 LO4 WR LD TRW MVOLT EZ1
- G1E SAME AS TYPE G1 EXCEPT WITH 10 WATT EMERGENCY BATTERY PACK.
- G2 SAME AS TYPE G1 EXCEPT 1500 LUMENS, 17.5 WATTS
- G2E SAME AS TYPE G2 EXCEPT WITH A 10 WATT EMERGENCY BATTERY
- G3 SAME AS TYPE G1 EXCEPT 2000 LUMENS, 22.5 WATTS
- G3E SAME AS TYPE G3 EXCEPT WITH A 10 WATT EMERGENCY BATTERY
- GS 4" ROUND SHOWER DOWNLIGHT. WET LOCATION LISTED. IP66 RATED. 1000 LUMEN. 9 WATT. FLUSH SMOOTH LENS. 120V. WHITE TRIM. GOTHAM #EVO4SH 35/10 DFF SMO 120
- H1 6" LED CYLINDER PENDANT DOWNLIGHT. 3500K, 1000 UMEN, 10.4 WATT, BLACK. LITHONIA #LDN6CYL 35/10 LO6BR LD 120 GZ10 PM DBL
- H2 6" LED CYLINDER PENDANT DOWNLIGHT. 3500K, 2000 LUMEN, 22.5 WATT, BLACK. LITHONIA #LDN6CYL 35/20 LO6BR LD 120 GZ10 PM DBL
- 12 CLX LED LINEAR, 24", 2000 LUMENS, STANDARD EFFICIENCY, LESS LOUVER, FLAT DIFFUSE LENS, GENERAL DISTRIBUTION, 120-277V, GENERIC 0-10V DIMS TO 1%, 4000K, 80CRI, WHITE FINISH, 14.5 WATTS LITHONIA #CLX L24 2000LM SEF FDL MVOLT GZ1 40K 80CRI WH
- I4 SAME AS TYPE I2 EXCEPT 48", 4000 LUMENS, 25.5 WATTS

I4E SAME AS TYPE I4 EXCEPT WITH A 10 WATT EMERGENCY BATTERY 14EW SAME AS TYPE 14E EXCEPT WALL MOUNTED. 

- J1 2x2 LED FLAT PANEL. 2000 LUMENS, 16 WATT, 80CRI, 4000K, SATIN LENS, 1%MIN DIMMING, 120-277V. LITHONIA #CPX 2X2 2000LM 80CRI 40K SWL MIN1 ZT MVOLT
- J1E SAME AS TYPE J1 EXCEPT WITH 10 WATT EMERGENCY BATTERY
- J2 SAME AS TYPE J1 EXCEPT 3200LM, 30 WATT.
- J2E SAME AS TYPE J2 EXCEPT WITH 10 WATT EMERGENCY BATTERY
- J2SE SAME AS TYPE J2E EXCEPT WITH INTEGRAL WIRELESS SENSOR. ACUITY #NLTAIR2 PIR

#### K 2'X4' LED HIGHBAY RETROFIT. 16,600 LUMENS, 105 WATTS, 120-277V, 4000K, DIMS TO 1%, 0-10V DIMMING, FROSTED IMPACT RESISTANT POLYCARBONATE LENS, SOLID ALUMINUM CONSTRUCTION.

# ESI #K 24LT D41X5HO 40 D FR-FL CUSTOM POLYCARBONATE LENS KE SAME AS TYPE K EXCEPT HAS EMERGENCY BATTERY PACK

- L4 4' SURFACE MOUNT LED LINEAR. 800 LUMEN/FT, 3500K, 1%MIN DIMMING, 120-277V, FLUSH LENS, WHITE FINISH, 6.33 WATT/FT, 25.3 WATTS. MARK #S4SD XXX 4\_FT XXXX 80CRI 35K 800LMF SCT MIN1 FLL MVOLT WHTT
- L4E SAME AS TYPE L4 EXCEPT WITH 10 WATT EMERGENCY BATTERY PACK.
- L6 SAME AS TYPE L4 EXCEPT 6', 38 WATTS.
- L6E SAME AS TYPE L6 EXCEPT WITH 10 WATT EMERGENCY BATTERY PACK.
- L6SE SAME AS TYPE L6E EXCEPT WITH WIRELESS OCCUPANCY SENSOR. #NLTAIR2 PDT
- SEMI-RECESSED GLASS CONE DOWNLIGHT. 2000 LUMENS, 3500K, 120V, 22 DELRAY #KLS31 2 W35 D 120
- N LED DOME PENDANT. 2500 LUMEN, 3500K, 120-277V, 1%MIN DIMMING, CUSTOM FINISHES, 22 WATTS. VISA #CP4410 L35K(L) 80CRI MVOLT
- P3 3' DIAMETER LED RING PENDANT. SILVER FINISH, LOW OUTPUT, 3500K, SEPARATE MOUNT, DIMMING, REMOTE DRIVER, SILVER CANOPY, BLACK POWER CORD, 51 WATT, 3780 LUMEN. TO BE MOUNTED WITH (1) P5 AND (1) ADDITONAL P3. COORDINATE MOUNTING WITH ARCHITECTURAL DETAILS DURING SHOP DRAWING PHASE. DELRAY #6813 S W35 S D RR
- P5 SAME AS TYPE P3 EXCEPT 5' DIAMETER, 85 WATT, 6300 LUMEN, TO BE MOUNTED WITH (1) P5 AND (1) ADDITIONAL P3. COORDINATE MOUNTING WITH ARCHITECTURAL DETAILS DURING SHOP DRAWING PHASE.
- Q27 2" WIDE, 4" DEEP, PERIMETER SLOT LINEAR LED. 27FT LENGTH, FIELD MEASURE TOTAL LENGTH PRIOR TO ORDERING. STANDARD OUTPUT, 80 CRI, 3500K, LOW-GLOSS WHITE, 120V, SINGLE CIRCUIT, 0-10V 10%MIN DIMMING, END CAP, 3.5 WATT/FT. FINELITE #HP 2 WS 4D XX S 835 96LG 120 SC FC-10%
- Q21 SAME AS TYPE Q27 EXCEPT 21FT LENGTH. FIELD MEASURE TOTAL LENGTH PRIOR TO ORDERING.
- V 4" VANDAL RESISTANT TUNABLE WHITE RECESSED DOWNLIGHT. IP66 AND IK10 RATED, TAMPER RESISTANT CEILING GRID MOUNTING, DIMMING TO <1%, 2000 LUMEN, 2700K-6500K TUNING RANGE, MEDIUM DISTRIBUTION, 28 WATT, 90CRI, 120 VOLT, CLEAR POLYCARBONATE LENS, WHITE ANTIMICROBIAL FINISH. LUMINAIRE #VRDL4 GB DARK NLT 2000LM TUWH RHYR MD 90CRI 120 CPL AMF
- V2 4" VANDAL RESISTANT DOWNLIGHT, 2000 LUMEN, 0-10V DIMMING, 120V LUMINAIRE #VRDL4 DARK ZT 2000LM WD 35K 80CRI 120 CPL AMF
- AA2 WALL MOUNT LED LUMINARIE. TYPE 2 DISTRIBUTION, 4000K, 73 WATT 208V, INTEGRATED MOTION/AMBIENT SENSOR. HOUSE-SIDE SHIELD. DARK BRONZE FINISH. LITHONIA #DSXW1 LED 20C 1000 40K T2M PIR HS DDBXD
- BBF WALL MOUNT LED SITE LUMINARIE. FORWARD THROW DISTRIBUTION. PERFORMANCE PACKAGE 7, 4000K, 70CRI, 120-277V, 188 WATT, INTEGRATED MOTION/AMBIENT SENSOR. HOUSE-SIDE SHIELD. DARK LITHONIA #DSX1 LED P7 70CRI TFTM MVOLT WBA PIR HS DDBXD
- BB2 SAME AS TYPE BBF EXCEPT TYPE 2 DISTRIBUTION.
- BB3 SAME AS TYPE BBF EXCEPT TYPE 3M DISTRIBUTION.
- CC POST-TOP LED RETROFIT WITH WIRELESS CONTROL LITHONIA #RADPT OR EQUAL

## **ELECTRICAL SYMBOLS**

<u>LIGHTING</u>

# A 2'x4' FIXTURE, TYPE INDICATED

HALF SHADED FIXTURES ARE EMERGENCY FIXTURES A 2'X2' FIXTURE, TYPE INDICATED

A 1'x4' LED FIXTURE, TYPE INDICATED

- A 4' LED STRIP, TYPE INDICATED
- → DOWNLIGHT OR SURFACE FIXTURE
- WALL MOUNTED FIXTURE, TYPE INDICATED
- WALL MOUNTED FIXTURE, TYPE INDICATED
- **⊠**<sub>E</sub> EXIT LIGHT
- **H**⊠<sub>□</sub> MOUNTED EXIT LIGHT (o) PENDANT MOUNTED FIXTURE, TYPE INDICATED
- **▽▽▽** TRACK LIGHTING FIXTURE
- EMERGENCY FIXTURE

# REMOTE HEAD EMERGENCY FIXTURE

- LIGHTING CONTROLS S SINGLE POLE SWITCH
- S<sub>3</sub> 3-WAY SWITCH
- FUSED TOGGLE SWITCH
- **SWP** WEATHERPROOF SWITCH
- WALL MOTION SWITCH SENSOR **ACUITY #WSX SERIES OR EQUAL**
- S<sub>MD</sub> COMBINATION WALL MOTION, DIMMING SWITCH SENSOR ACUITY #WSX D SERIES OR EQUAL
- DIMMING SWITCH, 0-10 VOLT ACUITY #SPODMRA D SERIES OR EQUAL
- S LOW VOLTAGE ON/OFF BUTTON SWITCH ACUITY #NPODMA SERIES OR EQUAL
- S<sub>D</sub> LOW VOLTAGE ON/OFF, DIMMING.
- ACUITY #NPODMA DX SERIES OR EQUAL SIM LOW VOLTAGE ON/OFF WITH INTEGRATED IR MOTION SENSOR
- ACUITY #NWSX LV SERIES OR EQUAL S LOW VOLTAGE ON/OFF, DIMMING WITH INTEGRATED IR MOTION SENSOR
- ACUITY #NWSX LV DX SERIES OR EQUAL S LOW VOLTAGE SWITCH. ON/OFF, RAISE/LOWER, CCT ADJUST
- ACUITY #NPODMA DX CCT WH S LOW VOLTAGE KEYED SWITCH. ON/OFF
- ACUITY #NPOD KEY MNTN WH
- S LOW VOLTAGE KEYED SWITCH. ON/OFF, RAISE/LOWER. ACUITY #NPOD KEY WH
- WIRELESS LINE VOLTAGE POWERED SWITCH, ON/OFF ACUITY #RPODL MVOLT WH G2
- COOPER GREENGATE #RC3D-PL OR EQUAL
- PR POWER RELAY
- POWER RELAY PACK ACUITY #NPP16 D SERIES OR EQUAL
- PASSIVE INFRARED, CEILING MOUNTED, LARGE-MOTION DETECTION, 2000 SQFT RADIAL COVERAGE SENSOR ACUITY #NCM 10 SERIES OR EQUAL

ROOM CONTROLLER, 3-RELAYS, 0-10V DIMMING, PLENUM RATED

- PASSIVE INFRARED, CEILING MOUNTED, SMALL-MOTION DETECTION, 500 SQFT RADIAL COVERAGE SENSOR ACUITY #NCM 9 SERIES OR EQUAL
- PASSIVE INFRARED, CEILING MOUNTED, LARGE-MOTION DETECTION, HIGH MOUNT, 1000 SQFT RADIAL COVERAGE SENSOR ACUITY #NCM 6 SERIES OR EQUAL
- DUAL TECH, CEILING MOUNTED, LARGE-MOTION DETECTION, 2000 SQFT RADIAL COVERAGE SENSOR ACUITY #NCM PDT 10 SERIES OR EQUAL
- DUAL TECH 360°, CEILING MOUNTED, SMALL-MOTION DETECTION, 500 SQFT RADIAL COVERAGE SENSOR ACUITY #NCM PDT 9 SERIES OR EQUAL PASSIVE INFRARED HALLWAY MOTION SENSOR, 130' RANGE.
- ACUITY #HW13 SERIES OR EQUAL  $+(xx)_{xx}$  WALL MOUNTED SENSOR
- DAYLIGHT PHOTO SENSOR, CEILING MOUNTED, AUTO DIMMING
- ACUITY #NCM ADCX SERIES OR EQUAL (C) LOW VOLTAGE PHOTOCELL FOR CONNECTION TO LCP. ACUITY #NIO PC
- DUPLEX RECEPTACLE
- QUADPLEX RECEPTACLE
- SPECIAL RECEPTACLE
- GFCI RECEPTACLE ■ GFI FEED THROUGH GFCI DEVICE
- CIRCUIT BREAKER DISCONNECT
- DEVICE CONNECTION
- NON-FUSED DISCONNECT SWITCH
- JUNCTION BOX
- POWER POLE FOR CUBICLE DESKS. POWER AND DATA FLUSH MOUNTED PANEL
- PANELBOARD
- SWITCHBOARD TRANSFORMER
- SINGLE PHASE MOTOR THREE PHASE MOTOR

- PUSH BUTTON STATION
- ADA PUSH BUTTON OPERATOR

# <u>ABBREVIATIONS</u>

- WP DENOTES WEATHER PROOF
- AFF ABOVE FINISH FLOOR
- AC ABOVE COUNTER
- EC ELECTRICAL CONTRACTOR EX EXISTING
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- MDF MAIN DATA FRAME
- IDF INTERMEDIATE DATA FRAME
- WR WEATHER RESISTANT MDP MAIN DISTRIBUTION PANEL
- PP POWER PANEL
- LP LIGHTING PANEL
- RP RECEPTACLE PANEL
- UPS UNINTERRUPTIBLE POWER SUPPLY LCP LIGHTING CONTROL PANEL
- GND GROUND
- MCB MAIN CIRCUIT BREAKER
- MLO MAIN LUGS ONLY
- CU COPPER
- AL ALUMINUM
- ATS AUTOMATIC TRANSFER SWITCH
- FAA FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL

CP CIRCULATION PUMP

ADA AMERICANS WITH DISABILITIES ACT

VP VANDAL PROOF

- FIRE ALARM FIRE ALARM CONTROL PANEL
- TS FIRE ALARM TAMPER SWITCH FS FIRE ALARM FLOW SWITCH
- DSD DUCT SMOKE DETECTOR
- E<sub>VP</sub> VANDAL PROOF FIRE ALARM PULL STATION S SMOKE DETECTOR

FIRE ALARM STROBE ONLY

COMMUNICATIONS HDMI OUTLET, 1 1/2" CONDUIT ROUTED TO ACCESSIBLE CEILING, (4) HDMI

INDICATED NUMBER OF DATA PORTS OUTLET ROUGH-IN, (INDICATED

WIRELESS ACCESS POINT (1) CAT6 WITH QUICKPORT AND 10FT

CEILING MOUNTED FIRE ALARM VOICE EVAC/STROBE COMBO

- (2) DATA PORT OUTLET ROUGH-IN, (2 CAT6), 1" CONDUIT ROUTED TO ACCESSIBLE CEILING
- DATA/HDMI OUTLET (1 CAT6 / 1 HDMI). 1 1/4" CONDUIT ROUTED TO ACCESSIBLE CEILING
- DATA/HDMI OUTLET (2 CAT6 / 1 HDMI). 1 1/4" CONDUIT ROUTED TO ACCESSIBLE CEILING
- NUMBER OF CAT6), 1" CONDUIT ROUTED TO ACCESSIBLE CEILING CARD READER ROUGH-IN, 1" CONDUIT ROUTED TO ACCESSIBLE CEILING
  - SECURITY CAMERA ROUGH-IN, 1" CONDUIT ROUTED TO ACCESSIBLE
- MAINTENANCE LOOP S SPEAKER

CLOCK

IOTA #IIS 125 SM DR

**ELECTRICAL SCHEDULES** 

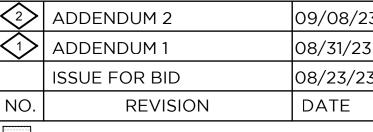
6" ROUND POKE-THROUGH FLOOR BOX. (2) DUPLEX RECEPTACLES, (1) HDMI

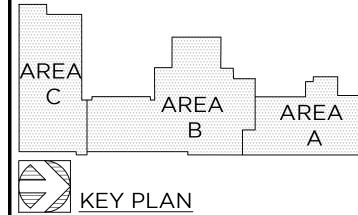
PORT, (2) DATA JACKS. 1 1/4" CONDUIT CONNECTION FOR HDMI/DATA.

SURFACE MOUNTED. DIMMING RELAY. UL 924 LISTED. IOTA #IIS 250 HE DR INV3 125 WATT MINI-INVERTER. 120V IN/OUT. 150 WATT INPUT RATED. SURFACE MOUNTED. DIMMING RELAY. UL 924 LISTED.

INV2 250 WATT MINI-INVERTER. 120/277V IN/OUT. 305 WATT INPUT RATED.

FB LEGRAND #6ATC2PAA - 6MAAP2A-1125CHA, HDMI - #AV3000BK





**WTA** ARCHITECTS

WTAARCH.COM

NORTH NO SCALE

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PROJECT TITLE ADDITION AND RENOVATION:

MIDLAND COUNTY ESA

714 EAST MIDLAND STREET • BAY CITY, MICHIGAN 48706 (989) 894-4300 F (989) 894-9930 www.macmillanassociates.com

MIDLAND, MICHIGAN

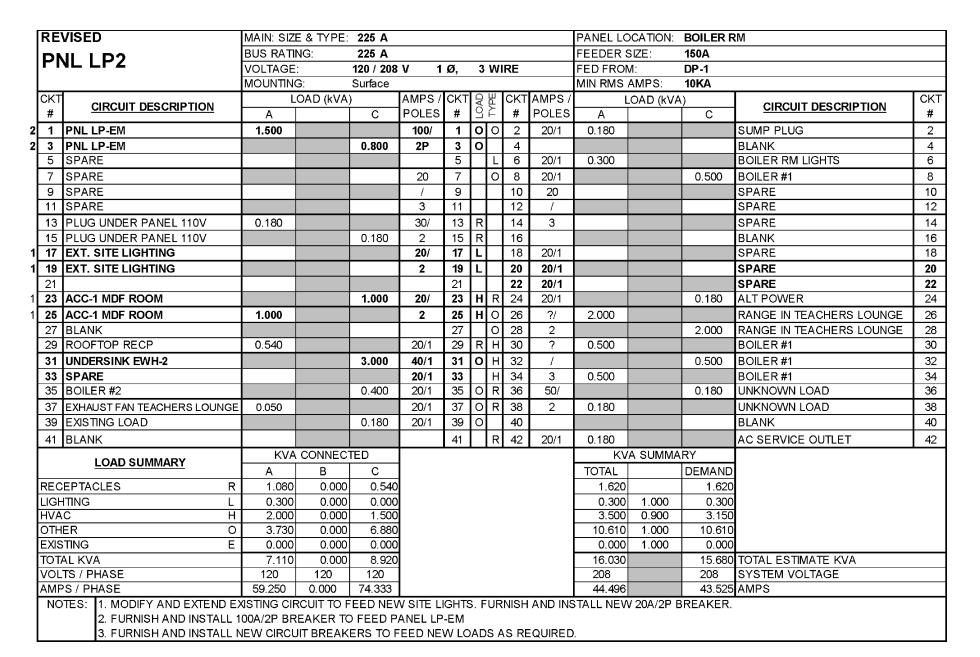
SCHEDULES AMD SYMBOLS

PROJECT NUMBER 2022006.1 PROJECT DATE AUGUST 23, 2023

E4.01

SHEET NUMBER

CHECKED BY



RE۱	/ISED	MAIN: SIZI	E & TYPE:	225 A	MCB						PANEL LC	CATION:	MAINTEN	ANCE RM	
DN	IL LP3	BUS RATII	VG:	225 A							FEEDER S	SIZE:			
יו	NL LP3	VOLTAGE		120 / 208	V 1	Ø,	3	WI	RE		FED FROM	Л:	DP-1		
		MOUNTING	Э:	SURFAC	E						MIN RMS	AMPS:	10KAIC		
CKT	OIDOUIT DECORIDEION	L	OAD (kVA)	)	AMPS /	CKT	Ð l	Ш [	CKT	AMPS /	L	OAD (kVA	١)	OLDOUIT DECODIDATION	Cł
#	CIRCUIT DESCRIPTION	Α		С	POLES	#	97	<b>≿</b>	#	POLES	Α		С	CIRCUIT DESCRIPTION	#
1	IT SUITE ABOVE COUNTER REC	0.540			20/1	1	R	R	2	20/1	0.360			MOTHER'S RM REC	2
3	IT SUITE OFFICE 3A REC			0.360	20/1	3	R	R	4	20/1			0.180	LOUNGE ABOVE COUNTER REC	4
5	MAKERSPACE ABOVE COUNTER REC	0.180			20/1	5	R	R	6	20/1	0.180			LOUNGE ABOVE COUNTER REC	6
7	COMPUTER			0.180	20/1	7	R	R	8	20/1			0.180	LOUNGE ABOVE COUNTER REC	8
9	COMPUTER	0.180			20/1	9	R	R	10	20/1	0.180			LOUNGE REC	10
11	COMPUTER			0.180	20/1	11	R		12	20/1			0.180	MDF ROOM WALL REC	1:
13	TLT RM 007 LV XMFR (JANITOR'S	0.050			20/1	13	ा	_	14	20/1				RECP FAN RM #6A&B	1.
	TLT RM 011 LV XMFR (JANITOR'S			0.050	20/1	15		R	16	20/1			0.540	WIRE MOLD EAST WALL #7	16
	RECP & FAN 2A&B	0.200			20/1	17	-	L	18	20/1	0.500			CORRIDOR LIGHTING	18
19	MAKERSPACE ABOVE COUNTER REC			0.180	20/1	19	R	R	20	20/1			0.180	RECPTIONIST RECP EAST WALL	. 20
21	MAKERSPACE ABOVE COUNTER REC	0.360			20/1	21	R		22	20/1	0.360			MDF ROOM CEILING REC	22
	EAST WALL RECP RM #3			0.180	20/1	23		R	24	20/1			0.360	MDF ROOM CEILING REC	2
25	MAKERSPACE MARKERBOARDS	0.360			20/1	25	R		26	20/1	0.180			RECP	20
	MAKERSPACE TV REC			0.360	20/1	27	_	R	28	20/1			0.180	NORTH ROOM RECP	28
	NORTH SIDE LIGHTING	1.200			20/1	29		R	30	20/1	0.180		*****	NORTH ROOM RECP	30
31	SOUTH SIDE LIGHTING			1.200	20/1	31	-	히	32	30/			2.250	JANITOR RM EWH-1	32
	EAST&WEST WALL RECP #4	0.180			20/1	33		ō	34	2P	2.250			JANITOR RM EWH-1	34
	FANS IN HAPPY DAYS	5,1,55		0.180	20/1	35	R		36	20/1			0.500	KITCHEN IN HAPPY DAYS	36
37	COMPUTER LAB4 SURGE SUPP	0.180			20/1	37	R	R	38	20/1	0.180			COMPUTER LAB 2 SURGE	38
	COMP LAB 3 RECP CIRCUIT	51155		0.180	20/1	39	R		40	20/1	000		_ 0.180_	COMPUTER LAB 1 LIGHTING	40
	TV TRAINING ROOM	0.360		51155	20/1	41	<b>F</b> (*)		42	20/1	0.500	****		LED SIGN	42
			CONNEC	TED.				<del>-</del>	$\overline{\overline{z}}$			A SUMMA	<del>  </del>		تسلم
	LOAD SUMMARY	A	В	С							TOTAL		DEMAND		
RFC	EPTACLES R	4.160	0.000								8.440		8.440		
	TING L	1.700	0.000	1.200	4						2.900		2.900		
HVA		0.000	0.000	0.000	1						0.000		0.000	4	
OTH		2.800	0.000	2.300	1						5.100		5.100		
	TING E	0.000	0.000								0.000		0.000	1	
	AL KVA	8.660	0.000								16.440			TOTAL ESTIMATE KVA	
	TS / PHASE	120	120	120	1						208		208	SYSTEM VOLTAGE	
	S / PHASE	72.167	0.000	64.833	1						45.634		45.634	AMPS	
NO	TES: 1. FURNISH AND INSTALL N	IEW CIRCU	IIT BREAK	ERS TO F	EED NE	W LO	ADS	S A	S RE	QUIREC	).				

	VISED	I N	/IAIN: SIZE	E & TYPE:	225 A	MLO						PANEL LO	CATION:	STORAGE	E ROOM	
DI	NL LP5	В	BUS RATII	NG:	225 A							FEEDER S	SIZE:	200A		
ГΙ	NL LF3	$\nabla$	OLTAGE:		120 / 208	V 1	Ø,	3	WI	RE		FED FROM	<b>/</b> 1:	DP-2		
		N	NOUNTING	3:	Surface							MIN RMS	AMPS:	10KA		
CKT #	CIRCUIT DESCRIPTION	F	A I	OAD (kVA	) I c	AMPS / POLES		OAD	TYPE	CKT #	AMPS / POLES	A	.OAD (kVA	() C	CIRCUIT DESCRIPTION	CKT #
	BATH LTS STORAGE RM		0.300		Ť	20/1	1	ī	_	2	20/1	0.540		Ū	LOCKER RM LTS. LOUNGE N RECPT. SE	2
	RECPT		0.000		0.540	20/1	3		R	4	20/1	0.010		0.540	E GYM RECPT	4
	NORTH RECP. RM 103		0.540		0.010	20/1	5		H		20/1	1.000		0.010	GYM UNIT HEATER ELEVATED	6
7	DEPARTMENT PLUGS				0.540	20/1	7			8	20/1			0.200	GYM STORAGE #1	8
	LEFT GYM HEATER		1.000		0.0 10	20/1	9	_		10	20/1	1.000		0.200	RIGHT GYM HEATER	10
	EF-3 & WATER HEATER REC		1.000		0.200	20/1	11			12	20/1	1.555			SPARE	12
	SPARE					20/1	13	Ħ	П	14	20/1				SPARE	14
	GYM STORAGE RM. #2				0.360	20/1	15	R	П	16	20/1				DEMO	16
	GYM WEST RECPT		0.540			20/1	17		R	18	20/1	0.900			GYM N RECPT. W OUTSIDE LTS	18
	RECPT				0.540	20/1	19		R	20	20/1			0.900	GYM SW RECPT	20
	GYM NW LIGHTS		0.630		1.5,5	20/1	21	Ľ	睛	22	20/1	0.630		1	GYM SW LIGHTS	22
	GYM NE LIGHTS		0.000		0.630	20/1	23	ΙĒ	ᆸ	24	20/1	0.000		0.630	GYM SE LIGHTS	24
	CONFERENCE RM S RECPT		0.540			20/1	25	R	0	26	50	0.180			EXISTING LOAD	26
	SPARE		0.0.0			20/1	27	Ħ	ō	28	/2			0.180	EXISTING LOAD	28
	SPARE					20/1	29		Ť	30	20/1			41144	SPARE	30
	SPARE					20/1	31		П	32	20/1				SPARE	32
	SPARE					20/1	33	l	0		20/1	0.100			PULL DOWN CURTAIN?	34
35	JOHNSON CONTROL PANEL				0.100	20/1	35	0		36	20/1				SPARE	36
37	BIG FANS		0.500			20/1	37	Н	П	38	20/1				SPARE	38
	SPARE		0.000			50	39	Ħ	0		20/1			0.180	EXISTING LOAD	40
	SPARE					/2	41		ō		20/1	0.180		355	EXISTING LOAD	42
<del></del>			KVA	CONNEC	TED							KV	A SUMMA	RY		
	LOAD SUMMARY		Α		Гс	1						TOTAL		DEMAND	1	
RFC	CEPTACLES	R	2.520		3.820	1						6.340		6.340		
	HTING		2.100		1.260	-						3.360	1.000	3.360		
HVA		<del>-</del>	3.500		0.000	-						3.500	0.900	3.150	•	
	IER		0.460		0.460							0.920	1.000	0.920	1	
	STING	Ě	0.000		0.000	-						0.000	1.000	0.000		
	AL KVA		8.580		5.540	-						14.120			TOTAL ESTIMATE KVA	
	.TS / PHASE		120		120	1						208		208	SYSTEM VOLTAGE	
	PS / PHASE		71.500		46.167	1						67.885			AMPS	
	TES: 1. THIS PANEL SCHEDU			ON THE E		PANEL S	CHE	DUL	E. F	FIELD	TRACE		Y ALL EX			
	ACCURATELY LABEL E	NITRIX	NG LOADS	S UNAFFE	CTED BY	DEMOL	ITION	١٥	N NE	EW P	ANELS	CHEDULE.	<b></b>			
	2. FURNISH AND INSTA	LL NE	.vv CIRCU	II RKFAK	באס וט ו	- EED NE	VV LC	AL	is A	49 KE	:WUIKEL	).				

₹E1	/ISED	MAIN: SIZE	& TYPE:		MLO						PANEL LO	OCATION:	JANITOR	'S CLOSET	
DN	IL LP6	BUS RATIN	NG:	225 A							FEEDER	SIZE:	200A		
יו ד	IL LFO	VOLTAGE:		120 / 208	8 V 1	Ø,	3	WI	IRE		FED FRO	M:	DP-2		
		MOUNTING	<b>∋</b> :	SURFAC							MIN RMS	AMPS:	10KA		
ЖT	CIRCUIT DESCRIPTION	LC	DAD (KVA	r)	AMPS / POLES	СКТ	AD	PΕ	CK	TAMPS	·   I	LOAD (KV	۹)	CIRCUIT DESCRIPTION	Т
#	CIRCOTT DESCRIPTION	Α	В	С	POLES	#	으	$\vdash$	#	POLES	Α	В	С	CITCOLI DESCRI TICH	$\perp$
1	CORRIDOR LIGHTING	1.343			20/1	1	L	R	2	20/1	0.540			BEHAVIOR OFFICE POWER POLE 1	Ι
3	CONF/STG/OFFICE LIGHTING			1.232	20/1	3	L	R	4	20/1			0.540	BEHAVIOR OFFICE POWER POLE 1	Τ
5	PHY'S THERAPY, TLT, LOUNGE, PERIM. LT	1.324			20/1	5	L	R	6	20/1	0.540			BEHAVIOR OFFICE POWER POLE 2	I
7	BH OFFICE, STORAGE, TLT, STAIR LTS			1.218	20/1	7	L	R	8	20/1			0.540	BEHAVIOR OFFICE POWER POLE 2	1
9	EXHAUST FAN 4	0.075			20/1	9	Н	R	10	20/1	0.500			BEHAVIOR OFFICE COPIER REC	
11	WATER HEATER REC.			0.180	20/1	11	R	R	12	20/1			0.360	BEHAVIOR OFFICE CONV. REC	1
13	EXHAUST FAN 5	0.135			20/1	13	Н	R	14	20/1	0.360			BEHAVIOR OFFICE 318A REC	1
15	PT/OT OFFICE 319A REC			0.360	20/1	15	R	R	16	20/1			0.180	TLT RM 316 REC.	1
17	MENS TLT RM REC	0.180			20/1	17	R	R	18	20/1	0.900			STORAGE ROOMS REC.	1
19	STAFF LOUNGE MICROWAVE REC			0.180	20/1	19	R	R	20	20/1			1.080	CORRIDOR REC.	1
21	STAFF LOUNGE MICROWAVE REC	0.180			20/1	21	R	R	22	20/1	0.360			S. STAIRWELL REC. / WC REC	1
23	STAFF LOUNGE ABOVE COUNTER REC			0.180	20/1	23	R	R					0.540	PT/OT OFFICE POWER POLE 1	1
25	STAFF LOUNGE ABOVE COUNTER REC	0.180			20/1	25	R	R	26	20/1	0.540			PT/OT OFFICE POWER POLE 1	1
$\rightarrow$	STAFF LOUNGE FRIDGE REC			0.500	20/1	27	R	R	_				0.540	PT/OT OFFICE POWER POLE 2	1
29	STAFF LOUNGE CONV. REC	0.360			20/1	29	R	R	30	20/1	0.540			PT/OT OFFICE POWER POLE 2	٦
31	SPEECH PATH. POWER POLE 1			0.540	20/1	31	R	R	32	20/1			0.540	PT/OT OFFICE POWER POLE 3	1
33	SPEECH PATH. POWER POLE 1	0.540			20/1	33	R	R			0.540			PT/OT OFFICE POWER POLE 3	1
35	SPEECH PATH. POWER POLE 2			0.540	20/1	35	R	R	36	20/1			0.720	PT/OT OFFICE CONV. REC.	1
-	SPEECH PATH. POWER POLE 2	0.540			20/1	37		R		20/1	0.540			PT/OT OFFICE CONV. REC.	1
39	LP-6A			4.260	100/	39	R	R	40	20/1			0.500	PT/OT OFFICE COPIER REC.	1
41	LP-6A	4.260			2P	41	R	R			0.360			PT/OT OFFICE 319B REC	1
		KVA	CONNEC	TED						_	<del>−</del> κ\	/A SUMM/	\RY		
	LOAD SUMMARY	A		С	1						TOTAL		DEMAND	1	
EC	EPTACLES R	11.960		12.280	<u> </u>						24.240	)	17.120		
	TING L	2.667		2.450	4						5.118		5.118	4	
VA		0.210		0.000	-						0.210		0.189		
THE		0.000		0.000	4						0.000		0.000		
	TING E	0.000		0.000	_						0.000		0.000		
	AL KVA	14.837		14.730	-						29.568		22,427	TOTAL ESTIMATE KVA	-
	TS / PHASE	120		120	1						208		208	SYSTEM VOLTAGE	-
	S / PHASE	123.644		122.753	1						142.152	•	107.821		-
	TES:	. 20.0 . 1									2.702		15521	<u> </u>	_
110	120.														

— .	V	MAIN: SIZE	E & TYPE:	100 A	MLO						PANEL LC	CATION:	JANITOR'	S CLOSEI	
DN	IL LP6A	BUS RATIN	NG:	100 A							FEEDER S	SIZE:	100A		
	IL LPOA	VOLTAGE:		120 / 208	V 1	Ø,	3 \	WII	RE		FED FROM	<b>1</b> :	LP-6		
		MOUNTING	<b>3</b> :	SURFAC	E						MIN RMS	AMPS:	10KA		
CKT	OLDOLUT DECODIDATION	L	OAD (KVA	)	AMPS /	CKT	AD PE	<u> </u>	CKT	AMPS /	L	OAD (KVA	١)	OLDOUIT DECODIDATION	С
#	CIRCUIT DESCRIPTION	Α	В	С	AMPS / POLES	#	9 2	-	#	POLES	Α	В	C	CIRCUIT DESCRIPTION	
1	SPEECH PATH. W. WALL REC	0.540			20/1	1	R	R	2	20/1	0.720			TEACHER CONSULTANT CONV REC	
3	SPEECH PATH. CONV. REC			0.540	20/1	3	R	R	4	20/1			0.540	TEACHER CONSULTANT POWER POLE 1	
5	SPEECH PATH. COPIER REC	0.500			20/1	5	R	R	6	20/1	0.540			TEACHER CONSULTANT POWER POLE 1	
7	SPPECH PATH. OFFICE 313A REC			0.540	20/1	7	R	R	8	20/1			0.540	TEACHER CONSULTANT POWER POLE 2	Γ
9	CONF RM 300B REC	1.080			20/1	9	R	R	10	20/1	0.540			TEACHER CONSULTANT POWER POLE 2	
11	CONF RM 300A REC			0.900	20/1	11	R	R	12	20/1			0.180	TEACHER CONSULTANT COPIER REC.	Г
13	LOBBY 300 DOOR OP & REC	0.100			20/1	13	0	R	14	20/1	0.540			TEACHER CONSULTANT 311A REC	Г
15	ELEV. HALL, STORAGE, STAIR REC			0.540	20/1	15	R	R	16	20/1			0.180	WATER COOLER REC	Ī
17	TLT RM XMFRS	0.100			20/1	17			18	20/1					
19					20/1	19		T	20	20/1					Г
21					20/1	21			22	20/1					l
23					20/1	23			24	20/1					T
25					20/1	25		寸	26	20/1					T
27					20/1	27		7	28	20/1					t
29					20/1	29		7	30	20/1					T
31					20/1	31		ヿ	32	20/1					T
33					20/1	33		7	34	20/1					t
35					20/1	35		寸	36	20/1					T
37					20/1	37		┪	38	20/1					T
39					20/1	39		1	40	20/1					t
41					20/1	41		7	42	20/1					t
		KVA	CONNEC	TED							ΚV	A SUMMA	RY		_
	LOAD SUMMARY	А		С	1						TOTAL		DEMAND		
RECI	EPTACLES R	4,460		3.960	1						8.420		8.420		
	TING L	0.000		0.000	1						0.000	1.000	0.000	4	
IVA		0.000		0.000	1						0.000		0.000		
THE		0.100		0.000	1						0.100		0.100		
	TING E	0.000		0.000	1						0.000		0.000		
	AL KVA	4.560		3.960	1						8.520		8.520	TOTAL ESTIMATE KVA	
	TS / PHASE	120		120	1						208			SYSTEM VOLTAGE	
	S / PHASE	38.000		33.000	1						40.962		40.962		
71711	TES:													l	_

	VISED	MAIN: SIZ BUS RATI		100 A 100 A	MCB					PANEL LO		ROILEK R	(IVI	
Pľ	NL LP-EM	VOLTAGE MOUNTIN	:	120 / 208 SURFAC		Ø,	3 W	IRE		FED FROM	vi:	LP-2		
CKT #	CIRCUIT DESCRIPTION		OAD (kVA		AMPS / POLES		LOAD	CK1	AMPS / POLES	L	OAD (kVA	\) C	CIRCUIT DESCRIPTION	CK #
1	EXIT LIGHTS	0.300			20/1	1	LΟ	2	20/1	0.100			FIRE ALARM	2
3	WALL PACKS			0.200	20/1	3	LΟ	4	20/1			0.100	FIRE ALARM	4
5	EXISTING LOAD	0.500			20/1	5	00	6	20/1	0.100			SIMENS TEMP CONTROLS	6
7	GARAGE			0.500	30/	7	0	8	20/1				SPARE	8
9	GARAGE	0.500			2	9	0	10	30/				SPARE	10
11	BLANK					11		12	2				SPARE	12
	LOAD SUMMARY	KVA	CONNEC	TED						KV	A SUMMA	\RY		
	ECAD SCIMINARY	Α		С						TOTAL		DEMAND		
REC	CEPTACLES R	0.000		0.000	1					0.000		0.000		
LIGH	HTING L	0.300		0.200						0.500	1.000	0.500		
HVA	AC H	0.000		0.000						0.000	0.900	0.000		
ОТН		1.200		0.600						1.800	1.000	1.800		
EXIS	STING E	0.000		0.000						0.000	1.000	0.000		
	AL KVA	1.500		0.800						2.300		2.300	TOTAL ESTIMATE KVA	
101.	TO / DUA OF	120		120						208		208	SYSTEM VOLTAGE	
	TS / PHASE			6.667						11.058		11.058	AMDS	

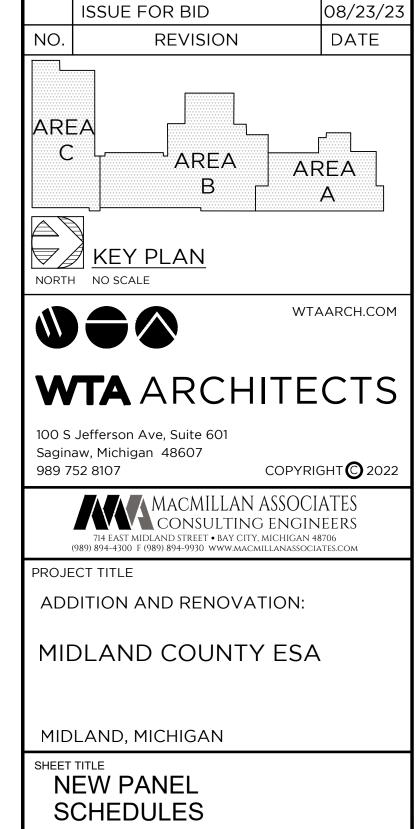
NΕ	N	MAIN: SIZE	& TYPE:	<b>200</b> A	MCB						PANEL LO	CATION:			
	IL RP1B	BUS RATII	NG:	<b>225</b> A							FEEDER S	SIZE:	200A		
PI'	IL RP ID	VOLTAGE:		120 / 208	V 3	Ø,	4	WIF	₹E		FED FROM	M:	MDP		
		MOUNTING	3:								MIN RMS	AMPS:	14KAIC		
CKT	CIDCUIT DESCRIPTION	LO	OAD (KVA)	)	AMPS /	CKT	LOAD	PE	CKT	AMPS /	L	OAD (KVA	·)	CIRCUIT DESCRIPTION	С
#	CIRCUIT DESCRIPTION	Α	В	С	POLES	#	9 i	՝	#	POLES	Α	В	С	CIRCUIT DESCRIPTION	;
1	SECURE ENTRANCE LIGHTS	1.152			20/1	1	L		2	20/1	0.360			RECEPTION OFFICE REC	
	IDF		0.250		20/1	3	R		4	20/1		0.900		WAITING AREA REC	Π
5	IDF			0.250	20/1	5	R	R	6	20/1			0.540	SECURE VEST. & LOBBY REC	
7	CORRIDOR 104 LIGHTS	1.036			20/1	7	L	R	8	20/1	0.540			LOBBY REC	
9	CLSRM 114,116, SENSORY, LOCKER LTS		1.387		20/1	9	L	R	10	20/1		0.540		CLINIC REC	
11	CLSRM 115, 113, TLT LTS			0.946	20/1	11	L	R	12	20/1			0.180	CLINIC TLT REC	
13	LIFE SKILLS, SIM, PAES LTS	0.738			20/1	13	L	R	14	20/1	0.540			NURSE OFFICE REC	Γ
15	LIFE SKILLS DRYER		1.400		30/	15	R	R	16	20/1		0.900		PAES ROOM REC.	Γ
17	LIFE SKILLS DRYER			1.400	2P	17	R	R	18	20/1			0.360	CLINIC FRIDGE & COUNTER REC	
19	LIFE SKILLS WASHER	0.500			20/1	19	R	R	20	20/1	0.900			SIMULATION RM REC	
21	FIRE ALARM CP AND ANNUNCIATOR		0.050		20/1	21	0	R	22	20/1		0.180		LIFE SKILLS FRIDGE	
23	SECURE VESTIBULE DOOR OP.			0.250	20/1	23	0	R	24	20/1			0.180	LIFE SKILLS ABOVE COUNTER REC	T
25	WAITING AREA DOOR OP.	0.100			20/1	25	0	R	26	20/1	0.180			LIFE SKILLS ABOVE COUNTER REC	T
27	CIRCULATION 103 DOOR OP.		0.050		20/1	27		R	28	20/1		0.540		LIFE SKILLS TV, CONV. REC	l
29	EAST ENTRANCE DOOR OP.			0.100	20/1		0		30	20/1			0.720	CIRCULATION 103 REC	ı
31	COURTYARD ENTRANCE DOOR OP.	0.100			20/1	31	0	R	32	20/1	0.720			SENSORY HALL & CONF. RM RE	₹
33	LIFE SKILLS STOVE REC		2.750		30/	33	R		34	20/1		0.540		CONFERENCE 119 REC	l
35	LIFE SKILLS STOVE REC			2.750	2P	35	R	R	36	20/1			0.360	TOILET RM 104C ABOVE COUNTER REC	
37	LIFE SKILLS COUNTER REC	0.180			20/1	37	R	R	38	20/1	0.540			JANITOR 104G & TLT CONV. REC	
39	CLSRM 113 CHARGE STATION REC		0.180		20/1	39	R	_	40	20/1		0.180		CLASSROOM 113 ABOVE COUNTER REC	T
41	CLSRM 115 CHARGE STATION REC			0.180	20/1		R		42	20/1			0.720	CLSRM 113 TEACHING WALL REC	t
	LOAD CUMMADY	KVA	CONNECT	TED			•				KV	A SUMMA	RY		•
	LOAD SUMMARY	Α	В	С							TOTAL		DEMAND		
REC	EPTACLES R	4.460	8.360	7.640							20.460		15.230		
LIGH	ITING L	2.926	1.387	0.946							5.259	1.000	5.259		
HVA	С Н	0.000	0.000	0.000							0.000	0.950	0.000		
НТС		0.200	0.100	0.350							0.650		0.650		
EXIS	TING E	0.000	0.000	0.000							0.000	1.000	0.000		
TOT	AL KVA	7.586	9.847	8.936							26.369		21.139	TOTAL ESTIMATE KVA	
	TS / PHASE	120	120	120							208			SYSTEM VOLTAGE	
	S / PHASE	63.214	82.056	74.470							73.195		58.677		

IΕΝ		MAIN: SIZE			MLO						PANEL LC				
N	L RP1B SUB	BUS RATII	NG:	225 A							FEEDER S	SIZE:	200A		
	LINI ID OOD	VOLTAGE		120 / 208	3 V	Ø,	4 \	WII	RE		FED FROM			ED-THRU I	
		MOUNTING									MIN RMS	AMPS:	14KAIC		
KΤ	CIRCUIT DESCRIPTION	L	DAD (KVA)	)	AMPS /	СКТ	AD T	뛴		AMPS /	L	OAD (KVA	4)	CIRCUIT DESCRIPTION	
#	ORGOTT BEGGIAT TICK	Α	В	С	POLES	#	ı	<del>`</del>	#	POLES	Α	В	С	GIROGIT BEGORIF TION	
13 C	CLSRM 114 CHARGE STATION R	0.180			20/1	43	R		44	20/1	0.540			CLSRM 113 FURNITURE BASE FEED	
<b>1</b> 5 C	CLSRM 116 CHARGE STATION R		0.180		20/1	45		R	46	20/1		0.180		CLSRM 115 ABOVE COUNTER REC	
<b>1</b> 7 S	SPARE				20/1	47		R	48	20/1			0.720	CLSRM 115 TEACHING WALL RE	4
19 E	EXHAUST FAN 2	0.061			20/1	49	Н	R	50	20/1	0.540			CLSRM 115 FURNITURE BASE FEED	Γ
51 0	OTHER ENTRANCES CANOPYLTS		0.075		20/1	51	L	R	52	20/1		0.720		CLSRM 116 TEACHING WALL RE	₫
53 II	NVERTERS IN IDF RM			0.300	20/1	53	L	R	54	20/1			0.180	CLSRM 116 COUNTER REC	
55 T	'LT RM 104C XMFR (JANITOR'S CLOSET)	0.100			20/1	55	0	R	56	20/1	0.540			CLSRM 116 EXT. WALL REC	Γ
57 T	'LT RM 104D XMFR (JANITOR'S CLOSET)		0.100		20/1	57		R	58	20/1		0.540		CLSRM 116 FURNITURE BASE FEED	
59 T	OILET RM 104D ABOVE COUNTER REC			0.360	20/1	59	R	R	60	20/1			0.720	CLSRM 114 TEACHING WALL RE	1
31 (	ABINET HEATER AT MAIN ENTRANCE	0.050			20/1	61	Н	R	62	20/1	0.180			CLSRM 114 COUNTER REC	
33 L	IFE SKILLS ISLAND STOVETOP		2.250		20/1	63		R	64	20/1		0.540		CLSRM 114 EXT. WALL REC	
35 L	IFE SKILLS ISLAND STOVETOP			2.250	20/1	65	R	R	66	20/1			0.540	CLSRM 114 FURNITURE BASE FEED REC	
37 L	IFE SKILLS DOWNDRAFT	0.180			20/1	67	R	R	68	20/1	0.540			WEST CORRIDOR/VEST. REC	Γ
	IFE SKILLS KITCHEN EQUIP		0.180		20/1	69		Н	70	20A		1.000		ACC-1	
4 1	V ABOVÉ ISLAND			0.180	20/1	71	R	田	72	2P	~~~	~~~	1.000	ACC-1	$\downarrow$
73 E	DISHWASHER	1.080			20/1	73	0	R	74	20/1	1.200			MICROWAVE	Π
<b>75</b> 46	TARE	——————————————————————————————————————	$\overline{}$	~~~	<del>20//</del>	75	7	٦	76	20/1		<del>~~~</del>	<del>~~~</del>	SPARE	
77 5	SPARE				20/1	77			78	20/1				SPARE	
<sup>7</sup> 9 S	SPARE				20/1	79			80	20/1				SPARE	Γ
31 5	PARE				20/1	81			82	20/1				SPARE	Ī
33 S	SPARE				20/1	83			84	20/1				SPARE	
	LOAD SHIMMARY	KVA	CONNEC	TED							KV.	A SUMMA	\RY		
	LOAD SUMMARY	Α	В	С	1						TOTAL		DEMAND		
ECE	PTACLES R	3.900	4.590	4.950	<u> </u>						13.440		11.720		
GHT	ING L	0.000	0.075	0.300	<u> </u>						0.375	1.000	0.375		
VAC	н	0.111	1.000	1.000	]						2.111	0.950	2.005		
THE	R O	1.180	0.100	0.000	0						1.280	1.000	1.280		
XIST	ING E	0.000	0.000	0.000							0.000	1.000	0.000		
IATC	L KVA	5.191	5.765	6.250							17.206		15.380	TOTAL ESTIMATE KVA	
OLT:	S / PHASE	120	120	120	1						208		208	SYSTEM VOLTAGE	
MPS	7 PHASE	43.258	48.042	52.083	1						47.760		42.693	AMPS	
NOT	ES:	<u> </u>			-								_		
NOT	ES:														

۷E۱	VV	MAIN: SIZE	& IYPE:	200 A							PANEL LO	CATION:	ADDITION	I AREA C JANITORS	
DN	NL RP1C	BUS RATIN	NG:	<b>225</b> A							FEEDER S	IZE:	SEE ONEL	INE	
	NL RP IC	VOLTAGE:		120 / 208	V 3	Ø,	4	WI	RE		FED FROM	1:	MDP		
		MOUNTING	<b>∋</b> :	SURFAC							MIN RMS A	AMPS:	14KAIC		
CKT #	CIRCUIT DESCRIPTION	A L	OAD (kVA)	) C	AMPS / POLES	CKT #	OAD	TYPE	CKT #	AMPS / POLES		OAD (kV/	A) C	CIRCUIT DESCRIPTION	CK <sup>-</sup>
1	CLASS RM 145,141,139,135 LTS	1.683			20/1	1	_	R	2	20/1	0.540			CLASSRM 145 SW WALL REC	2
	CLASS 133, HIVE, MAT RM LTS		1.500		20/1	3	ΙĒ	R	4	20/1		0.540		CLASSRM 145 NE WALL REC	4
	BATH, EXER & QUIET RM LTS		11000	1.500	20/1	5	ΙĒ	R	6	20/1		0.0.0	0.540	CLASSRM 145 TV & W REC	6
7	CORRIDOR LTS	0.850			20/1	7	┢	R	8	20/1	0.540			CLASSRM 141 TV & W REC	8
	CLASSRM 141 S WALL REC	0.000	0.540		20/1	9		R	10	20/1	3.3.3	0.540		CLASSRM 141 NE WALL REC	10
	CLASSRM 139 TV & W REC		0.0.0	0.540	20/1	11		R		20/1		0.0.0	0.540	CLASSRM 139 NE WALL REC	12
	CLASSRM 139 E&S WALL REC	0.540		5,5,5	20/1	13		R	14	20/1	0.540		0,0,0	CLASSRM 135 TV & W REC	14
	CLASSRM N WALL REC	0.040	0.540		20/1	15		R		20/1	0:040	0.540		CLASSRM 135 SE WALL REC	16
	HIVE GENERAL RECPTS		0.0-0	1.080	20/1	17		R		20/1		0.0-10	0.180	IDF	18
	CHANGE RMS & STAFF TLT REC	0.900		1.000	20/1	19		R	20	20/1	0.180		0.100	IDF	20
	EXERCISE RM RECPTS	0.500	1.080		20/1	21		R		20/1	0.100	0.720		NE CLASSRM RECPTS	22
	JANITORS CLOSET RECPT		1.000	0.180	20/1	23		R		20/1		0.720	0.720	BATHROOM RECPTS	24
	QUIET RM CORRIDOR REC	0.360		0.100	20/1	25		R		20/1	0.720		0.720	NE CLASSRM RECPTS	26
23 27	MAIN CORRIDOR REC	0.300	1.080		20/1	27		R	28	20/1	0.720	0.540		VESTIBULE 106 & STAIR REC	28
	CONF. RM 143 REC		1.000	0.360	20/1	29		R		20/1		0.540	0.720	CONF. RM 137 RECPTS	30
_	CLASSRM 133 N&E REC	0.540		0.300	20/1	31		R		20/1	0.360		0.720	CLASSRM 133 S. REC	32
		0.540	0.540								0.360	1.000			
33 8=	CLASSRM 133 TV & W REC WATER FOUNTAIN		0.540	0.180	20/1	33 35		R R	34 36	20/1		1.080	0.180	MAT ROOM 130 REC	34 36
		0.050		0.160	20/1						0.400		0.160	KITCHEN EQUIP	
	CH-1	0.050	0.050		20/1	37		R	38	20/1	0.180			KITCHEN EQUIP	38
	CH-2		0.050	0.070	20/1	39		R	40	20/1		0.180	0.400	KITCHEN EQUIP	40
_	EF-6	2.122		0.073	20/1	41	_	R	42	20/1	2 122		0.180	KITCHEN EQUIP	42
	TLT RM ABOVE COUNTER REC	0.180			20/1	43		R	44	20/1	0.180			WASHER	44
	TLT RM ABOVE COUNTER REC		0.180		20/1	45		R	46	30/		2.150		DRYER	46
	KITCHEN ISLAND REC			0.360	20/1	47	_	R	48	2			2.150	DRYER	48
	EXTERIOR LIGHTS	0.256			20/	49	ᆫ	0	50	20/1	0.050			TLT RM LOW VOLTAGE XMFR	50
	EXTERIOR LIGHTS		0.256		2P	51	L	0	52	60/		0.000		RP1C-A SUBPANEL	52
53	KITCHEN EQUIP			0.180	20/1	53	R	0	54	2P			0.000	RP1C-A SUBPANEL	54
	LOAD SUMMARY	KVA	CONNEC	TED							KV/	A SUMMA	ARY		
		Α	В	С							TOTAL		DEMAND		
REC	EPTACLES R	5.760	10.250	8.090							24.100		17.050		
IGF	HTING L	2.789	1.756	1.500							6.045	1.000	6.045		
IVA	С Н	0.050	0.050	0.073	]						0.173	0.950	0.164		
	ER O	0.050	0.000	0.000							0.050	1.000	0.050		
XIS	TING	0.000	0.000	0.000							0.000	1.000	0.000		
	AL KVA	8.649	12.056	9.663							30.367			TOTAL ESTIMATE KVA	
	TS / PHASE	120	120	120							208		208	SYSTEM VOLTAGE	
MP	PS / PHASE	72.073	100.467	80.521							84.293		64.700	AMPS	

INE	W		IZE & TYPE:	60 A	MLO					PANEL LO				
DN	NL RP1C-A	BUS RA	TING:	100 A						FEEDER:	SIZE:	60A		
ГГ	IL REIC-A	VOLTAC	E:	120 / 208	3 V 1	Ø,	3 V	VIRE		FED FRO	M:	RP1C		
		MOUNT	NG:							MIN RMS	AMPS:	10KAIC		
CKT	CIRCUIT DESCRIPTION		LOAD (kVA	.)	AMPS /	СКТ	LOAD	CK	T AMPS ,	/ I	OAD (kV	4)	CIRCUIT DESCRIPTION	
#	CIRCUIT DESCRIPTION	Α		С	POLES	#	9 2	#	POLES	Α		С	CIRCUIT DESCRIPTION	
1	ACC-1	1.000			20A	1	НС	2	20/1	0.100			DOOR OPERATOR	
⊱	ACC-1	~~~	1,000	~~~	2P~	<b>3</b> →	H.	4	20/1		0.100		DOOR OPERATOR	
					20/1	5	0	6	20/1				SPARE	
₹	DISHWASHER SPARE	<del>~~~</del>	4		20/1	7	7	8	20/1				SPARE	
9	SPARE				20/1	9		10	20/1				SPARE	
11	SPARE				20/1	11		12	20/1				SPARE	
13	SPARE				20/1	13		14	20/1				SPARE	П
15	SPARE				20/1	15		16	20/1				SPARE	
17	SPARE				20/1	17		18	20/1				SPARE	
19					20/1	19		20	20/1					
21					20/1	21		22	20/1					T
23					20/1	23		24	20/1					
25					20/1	25		26	20/1					
27					20/1	27		28	20/1					
29					20/1	29		30	20/1					T
	LOAD SUMMARY	K\	/A CONNEC	TED						KV	A SUMMA	\RY		
	LOAD SUMMARY	Α	В	С						TOTAL		DEMAND	1	
REC	EPTACLES	R 0.00	0.000	0.000	ol .					0.000		0.000		
LIGH	HTING	L 0.00	0.000	0.000	ol .					0.000	1.000	0.000		
HVA	(C	H 1.00	00 1.000	0.000	ol .					2.000	0.950	1.900		
ОТН	ER	0.10	0.100	1.080	ol .					1.280	1.000	1.280		
EXIS	STING	E 0.00	0.000							0.000	1.000	0.000		
	AL KVA	1.10			0					3.280			TOTAL ESTIMATE KVA	
	TS / PHASE	120	120	120	]					208			SYSTEM VOLTAGE	
AMP	PS / PHASE	9.167	9.167	9.000						9.105		8.827	AMPS	

NEW PNL RP2A		MAIN: SIZE & TYPE: 200 A MCB									PANEL LOCATION: MAIN LEVEL N.WING AREA A CLOSET					
		BUS RATIN							FEEDER S	SIZE:	200A					
		VOLTAGE: 120 / 20			BV 3Ø, 4WIRE						FED FROM	/l:	MDP	MDP		
		MOUNTING								MIN RMS AMPS: 10KAIC						
<Τ	CIDCUIT DESCRIPTION	LOAD (kVA		)	AMPS /	СКТ	LOAD	PE	CKT	AMPS /	L	OAD (kVA	١)	CIRCUIT DESCRIPTION	СКТ	
#	CIRCUIT DESCRIPTION	Α		С	POLES	#	9	<u></u>	#	POLES	Α		С	CIRCUIT DESCRIPTION	#	
1	NORTH OFFICES, CONF. LTS	1.289			20/1	1	L	R	2	20/1	0.720			OFFICE 228,230 REC	2	
۳	N CORR SUPER CONE STAIRLIS	~~	1 284	~~~	20/1	~~~	$\sim$	R	4	20/1		0.720		OFFICE 224,226 REC	4	
	EWH-2			3.000	30/1	5	Н	R	6	20/1			0.720	OFFICE 220,222 REC	6	
${\mathcal I}$	OFFICE 212B REC	0.540	<del>~~~</del>	<del></del>	20/1	$\overline{\gamma}$	Ŕ	K	8	20/1	0.720			OFFICE 221, 223 REC	8	
9	RECEPTION & LOUNGE 212 REC		0.720		20/1	9	R	R	10	20/1		0.720		OFFICE 225,227 REC	10	
11	CONF. 212, SUPER TV REC			0.360	20/1	11	R	R	12	20/1			0.720	OFFICE 229,231 REC	12	
13	CONF. 212 WALL/FB REC	0.900			20/1	13	R	R	14	20/1	0.720			OFFICES CORRIDOR REC	14	
15	SUPERINTENDANT CONV. REC		0.540		20/1	15	R	R	16	20/1		0.900		ADMIN CONF. RM WEST REC	16	
17	SUPERINTENDANT DESK REC			0.180	20/1	17	R	R	18	20/1			0.720	ADMIN CONF. RM EAST REC	18	
19	SUPERINTENDANT FRIDGE REC	0.180			20/1	19	R	R	20	20/1	0.360			ADMIN CONF. RM TV REC	20	
21	SUPERINTENDANT COFFEE REC		0.180		20/1	21	R	R	22	20/1		0.720		ADMIN CONF. RM FB REC	22	
23	WORK ROOM CONV. REC			0.360	20/1	23		-	24	20/1			0.720	CORRIDOR 201 REC.	24	
25	RPSS OFFICE PRINTER REC	0.180			20/1	25	R	R	26	20/1	0.360			RPSS OFFICE POWER POLE 1	26	
	WORK ROOM ABOVE COUNTER		0.180		20/1	27	R		28	20/1		0.360		RPSS OFFICE POWER POLE 1	28	
	WORK ROOM ABOVE COUNTER			0.180	20/1	29	R		30	20/1			1.080	RPSS OFFICE TV/CONV. REC	30	
31	CONFERENCE RM / TLT RM REC	0.540			20/1	31	_	R	32	20/1	0.540			RPSS PRIVATE OFFICE REC	32	
33	TOILET 203 REC		0.180		20/1	33	R		34	20/1		0.360		CAREER OFFICE POWER POLE 1	34	
	TOILET 205 REC			0.180	20/1	35	R		36	20/1			0.360	CAREER OFFICE POWER POLE 1	36	
	EXHAUST FAN 3	0.190			20/1	37	Н	—	38	20/1	1.080			CAREER OFFICE TV/CONV. REC	38	
	CORRIDOR TABLE REC	0.100	0.720		20/1	39		R	40	20/1	1.000	0.540		CAREER PRIVATE OFFICE REC	40	
	ACC-1		0.720		20/	41	H		42	20/1		0.0 10	0.180	CAREER OFFICE PRINTER REC	42	
_	ACC-1				2P	43	-	R	44	20/1	0.360		01100	RPSS OFFICE POWER POLE 2	44	
	DOOR OPERATOR		0.050		20/1	45	_	R	46	20/1	0.000	0.360		RPSS OFFICE POWER POLE 2	46	
	WORK ROOM COPIER REC		0.000	0.180	20/1		R		48	20/1		0.000	0.360	CAREER OFFICE POWER POLE 2	48	
	TLT RM XMFR (STORAGE)	0.050		0.100	20/1	49	_	${} \rightarrow$	50	20/1	0.360		0.000	CAREER OFFICE POWER POLE 2	50	
	TV ROOM 216	0.000	0.360		20/1	51	R	H	52	20/1	0.500			SPARE	52	
	SPARE		0.500		20/1	53	Ë	Н	54	20/1				SPARE	54	
	0171112	K\/Δ	CONNEC	ΓED	20/1			ш		20/1	K\/	A SUMMA	RV	0171112	-	
LOAD SUMMARY RECEPTACLES R		A	В	С	1						TOTAL	7. 001/11/17	DEMAND			
		7.560	7.560	6.300	ł						21.420		15.710			
LIGHTING L		1.289	1.284	0.000	ł						2.573	1.000	2.573			
IVA		0.190	0.000	3.000							3.190		3.031			
OTH		0.190	0.050	0.000	ł						0.100		0.100			
	TING E	0.000	0.000	0.000	1						0.000		0.100			
	AL KVA	9.089	8.894	9.300	1						27.283	1.000		TOTAL ESTIMATE KVA		
OLTS / PHASE		120	120	120	ł						208			SYSTEM VOLTAGE		
MPS / PHASE		75.742	74.117	77.500	1						75.732			AMPS		
	TES:	10.172	7-117	, , , , , , ,	<u> </u>						10.102		1 33.440	7 1111 9		



SHEET NUMBER

E4.04

2 ADDENDUM 2

ADDENDUM 1

PROJECT NUMBER

CHECKED BY

2022006.1

PROJECT DATE
AUGUST 23, 2023

ISSUE FOR BID

09/08/23