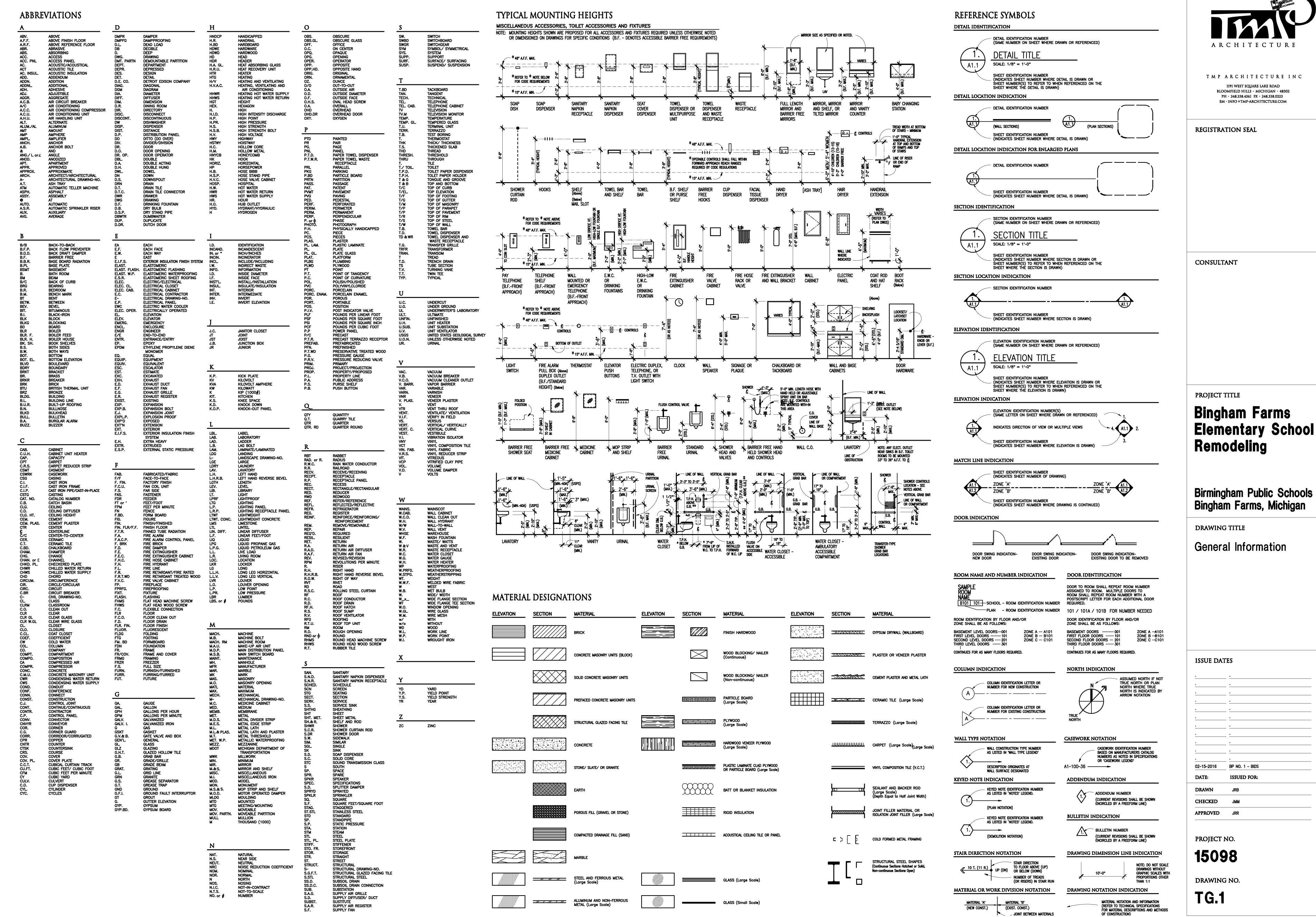


Drawing File: Q:\acad\2015tmpa\15098\15098\_cd\15098\_ts1.dwg Feb 15, 2016 - 8:43am



(NEW CONST.)

(EXIST. CONST.)

JOINT BETWEEN MATERIALS

SUPPLY AIR REGISTER

SUPPLY FAN







T M P A R C H I T E C T U R E I N C

1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO ®TMP-ARCHITECTURE.COM

**REGISTRATION SEAL** 

CONSULTANT

Bingham Farms
Elementary School
Remodeling

Birmingham Public Schools Bingham Farms, Michigan

DRAWING TITLE
Composite Floor Plan

DRAWN AKW

CHECKED JMM

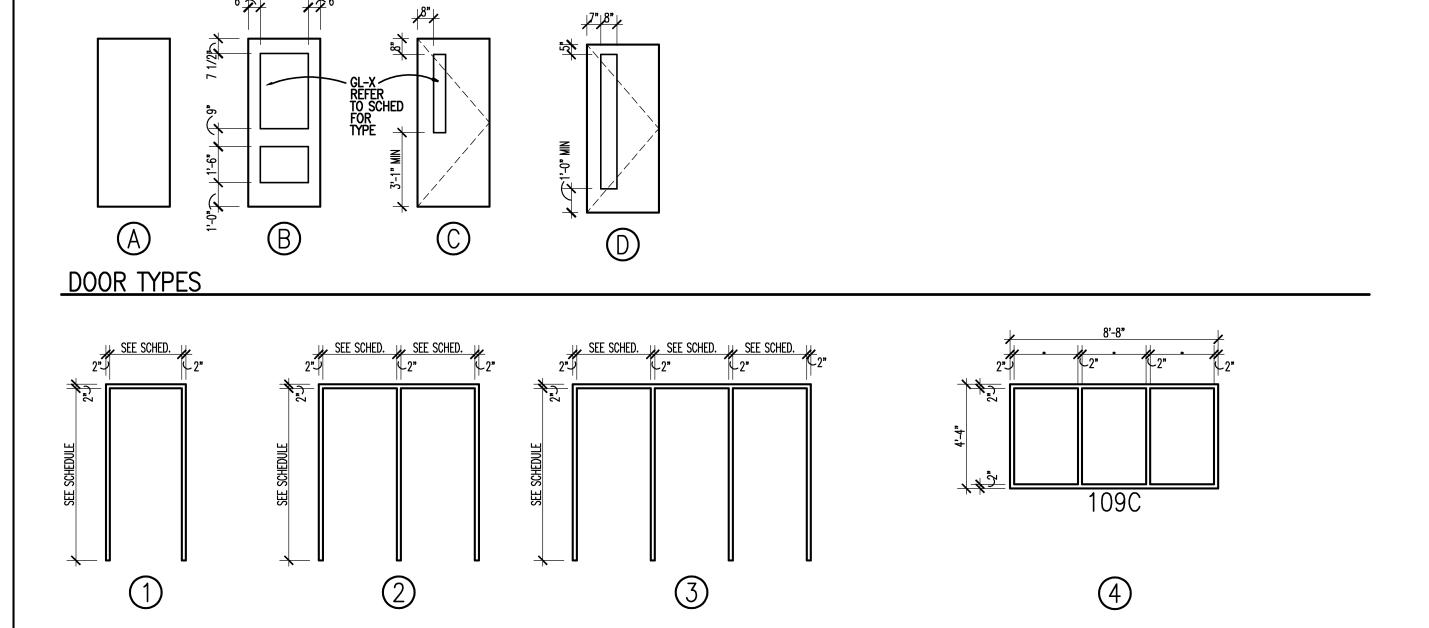
PROJECT NO.

15098

DRAWING NO.

AC1.1

	DOOR &	F	R	<b>4</b> M	E	S	CH	ED	UL	E								
Ope	ning	D	oor	1		F	ram	е		Details			Threshold	<u></u>	);	Remarks		
No.	Opening Size (Width x Height)	Туре	Material	Finish	Glass	Туре	Material	Finish	Glass	Head	Head Jamb Sill			U.L. Label	Hdwe. Set			
Low	er Level - Zo	ne	'A'															
A133A	3'-0"x 7'-0" (V.I.F.) (EXIST)	В	EX. FRP	EX. PFN	EX.*	EX.	EX. AL	EX.	EX.*						06	REFER TO ALTERNATE A-1: PROVIDE GL-12		
A133B	3'-0"x 7'-0" (V.I.F.) (EXIST)	В	EX. FRP	EX. PFN	EX.*	EX.	EX. AL	EX.	EX.*	•					06	REFER TO ALTERNATE A-1: PROVIDE GL-12		
A133C	3'-0"x 7'-0" (V.I.F.) (EXIST)	В	EX. FRP	EX. PFN	EX.*	EX.	EX. AL	EX.	EX.*					•	06	REFER TO ALTERNATE A-1: PROVIDE GL-12		
A133D	3'-0"x 7'-0" (V.I.F.) (EXIST)	В	EX. FRP	EX. PFN	EX.*	EX.	EX. AL	EX.	EX.*						21	REFER TO ALTERNATE A-1: PROVIDE GL-12		
A144A	3'-0"x 7'-0"	В	НМ	PTD	GL-1	2	НМ	PTD	GL-1			•		•	22	REFER TO ALTERNATE A-1: PROVIDE GL-3		
A144B	3'-0"x 7'-0"	В	НМ	PTD	GL-1	2	НМ	PTD	GL-1			•		•	02	REFER TO ALTERNATE A-1: PROVIDE GL-3		
Lower Level - Zone 'B'																		
B109A	3'-0"x 7'-0" (V.I.F.) (EXIST)	Α	EX. HM	PTD	EX.*	EX.	EX. HM	EX.		•	•	•			03	REFER TO ALTERNATE A-1: PROVIDE GL-3; A-2: PROVIDE ACCESS CONTROL SYSTEM		
B109B	3'-0"x 7'-0" (V.I.F.)	Α	НМ	PTD	EX.*	EX.	EX.	EX.		•	•	•				REFER TO ALTERNATE A-1: PROVIDE GL-3		
B109C	8'-8" x 4'-4"	WIND	OW OPEN	IING		EX.	EX.	EX.		•		•		•		REFER TO ALTERNATE A-1: PROVIDE GL-3		
B111	3'-0"x 7'-0" (V.I.F.)	С	НМ	PTD		1	НМ	PTD		•				45	09	ALTERNATE A-3.		
B114A	3'-0"x 7'-0" (V.I.F.)	С	EX. HM	EX. PTD		EX.	EX. HM	EX.							07	REFER TO ALTERNATE A-1: PROVIDE GL-3; ALTERNATE A-3		
B116B	3'-0"x 7'-0" (V.I.F.)	С	EX. HM	EX. PTD		EX.	EX. HM	EX.							07	REFER TO ALTERNATE A-1: PROVIDE GL-3; ALTERNATE A-3		
B122C	3'-0"x 7'-0" (V.I.F.)	D	EX. WD	EX.	EX.*	EX.	EX. AL	EX.	-					<u> </u>	·	REFER TO ALTERNATE A-1: PROVIDE GL-3		
B122D	3'-0"x 7'-0" (V.I.F.)	D	EX. WD	EX.	EX.*	EX.	EX. AL	EX.	-	•				<u> </u>	·	REFER TO ALTERNATE A-1: PROVIDE GL-3		
B122E	3'-0"x 7'-0" (V.I.F.)	D	EX. WD	EX.	EX.*	EX.	EX. AL	EX.	-		.	1.	1.	<b>l</b> .	08	refer to alternate A-1: provide GL-3		



#### DOOR SCHEDULE ABBREVIATIONS AND NOTES

(REFER TO SPECIFICATIONS FOR ADDITIONAL DOOR INFORMATION)

#### DOOR SCHEDULE ABBREVIATIONS

ALUMINUM AND GLASS HOLLOW METAL SOLID CORE HARDWOOD PREFINISHED BY MANUFACTURER

SYNTHETIC MARBLE THRESHOLD METAL THRESHOLD PLASTIC LAMINATE CLAD FIBERGLASS REINFORCED POLYESTER STAINLESS STEEL STEEL

#### DOOR SCHEDULE GENERAL NOTES 1. GALVANIZED METAL TO BE PROVIDED FOR HOLLOW METAL DOOR AND/OR FRAME AT EXTERIOR LOCATION.

U.L. DOOR LABEL DESIGNATIONS: 3 HR. FIRE RATING 1-1/2 HR. FIRE RATING

2. DOORS ARE 1-3/4" THICK UNLESS OTHERWISE NOTED. 3. DETAIL NUMBERS NOTED SIM. REFER TO DETAILS SHOWING HEAD,

JAMB, AND/ OR SILL DETAILS THAT REPRESENT CONDITIONS SIMILAR TO THOSE NOTED. CONTROL LABELED IN ADDITION TO U.L. LABELS INDICATED. 4. HOLLOW METAL FRAMES SET IN MASONRY WALLS ARE 5 3/4" WIDE (U.O.N.).

UNDERSIDE OF ROOF DECK

Underside of Roof Structure \

NEW HOLLOW METAL DOOR FRAME - (PTD), TYP.

5. HOLLOW METAL FRAMES, SET IN GYPSUM BD. /METAL STUD PARTITIONS, SHALL BE "DOUBLE BACK-BEND" FRAMES WITH A THROAT DIMENSION

EQUAL TO THE PARTITION THICKNESS PLUS 9/16" RETURNS ON EACH

SIDE OF THE PARTITION. PROVIDE EQUAL RABBETS.

of the schedúle.

6. AN ASTERISK (\*) CALLS ATTENTION TO THE REMARKS COLUMN

U.L. LABEL\*\* MIN. OPENING PROTECTION ASSEMBLY 1 HR. FIRE RATING 3/4 HR. FIRE RATING 1/3 HR. FIRE RATING \*\* ALL FIRE RATED DOORS SHALL BE SMOKE AND DRAFT

GL-1 1/4" CLEAR TEMPERED, MONOLITHIC GLASS

**GLAZING TYPES** 

(REFER TO SPECIFICATIONS FOR ASSEMBLIES)

GL-2 1/4" LAMINATED GLASS GL-3 INTERIOR LAMINATED SECURITY GLASS GL-6c 60 & 90 MINUTE FIRE RATED GLASS - DOORS GL-6d 60, 90 OR 120 MIN FIRE RATED GLASS GL-10 TEMPERED INSULATING GLASS - CLEAR GL-11 TEMPERED INSULATING GLASS - TINTED GL-12 EXTERIOR INSULATING LAMINATED SECURITY GLASS

EXISTING CEILING TILE AND GRID, MODIFY TO SUIT NEW PARTITION

§" GYP. BOARD ON  $\frac{1}{2}$ " PLYWOOD ON  $3-\frac{1}{8}$ " METAL STUDS © 16" O.C.



TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH · 248.338.4561 FX · 248.338.0223 EM · INFO @TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

PROJECT TITLE

Bingham Farms
Elementary School
Remodeling

Birmingham Public Schools Bingham Farms, Michigan

DRAWING TITLE

Door & Frame Schedule

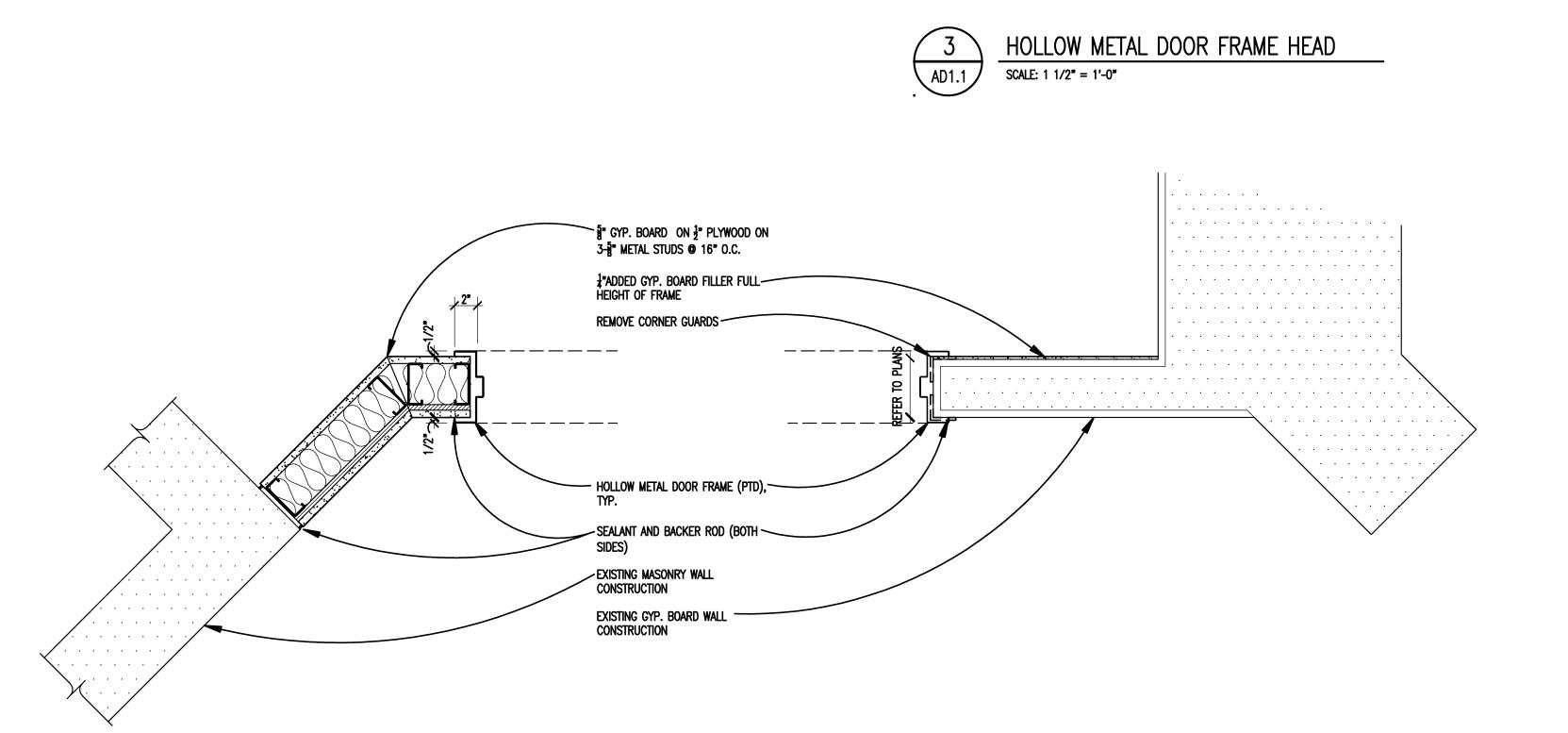
**ISSUE DATES** BP NO. 1 - BIDS

PROJECT NO.

APPROVED JJC

15098

DRAWING NO. **AD1.1** 





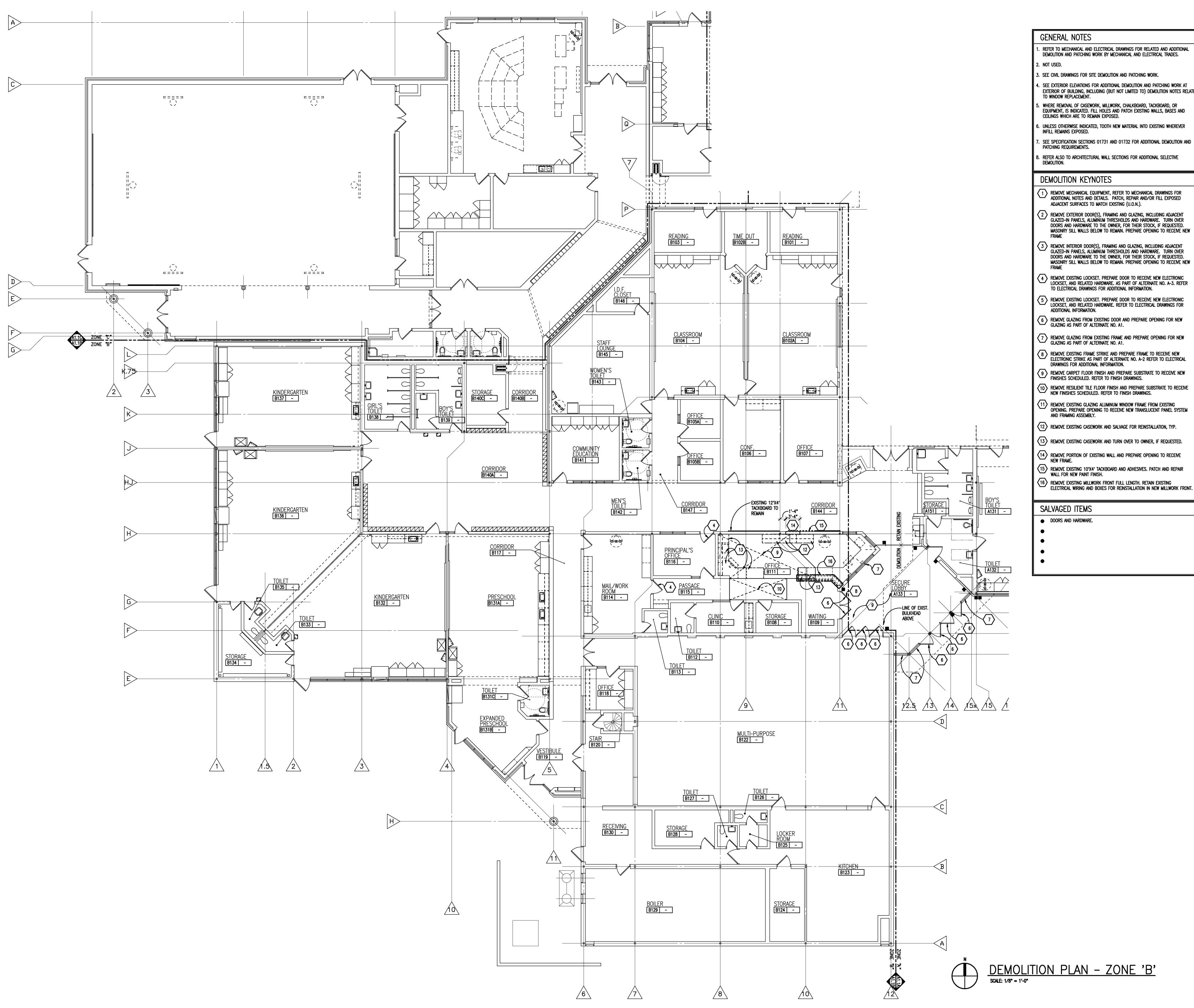
HOLLOW METAL DOOR FRAME JAMB

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



HOLLOW METAL DOOR FRAME JAMB SCALE: 1 1/2" = 1'-0"

FRAME TYPES



. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED AND ADDITIONAL DEMOLITION AND PATCHING WORK BY MECHANICAL AND ELECTRICAL TRADES.

4. SEE EXTERIOR ELEVATIONS FOR ADDITIONAL DEMOLITION AND PATCHING WORK AT EXTERIOR OF BUILDING, INCLUDING (BUT NOT LIMITED TO) DEMOLITION NOTES RELATED

. WHERE REMOVAL OF CASEWORK, MILLWORK, CHALKBOARD, TACKBOARD, OR EQUIPMENT, IS INDICATED. FILL HOLES AND PATCH EXISTING WALLS, BASES AND CEILINGS WHICH ARE TO REMAIN EXPOSED.

6. UNLESS OTHERWISE INDICATED, TOOTH NEW MATERIAL INTO EXISTING WHEREVER

- 1 REMOVE MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS. PATCH, REPAIR AND/OR FILL EXPOSED ADJACENT SURFACES TO MATCH EXISTING (U.O.N.).
- 2 REMOVE EXTERIOR DOOR(S), FRAMING AND GLAZING, INCLUDING ADJACENT GLAZED-IN PANELS, ALUMINUM THRESHOLDS AND HARDWARE. TURN OVER DOORS AND HARDWARE TO THE OWNER, FOR THEIR STOCK, IF REQUESTED. MASONRY SILL WALLS BELOW TO REMAIN. PREPARE OPENING TO RECEIVE NEW
- REMOVE INTERIOR DOOR(S), FRAMING AND GLAZING, INCLUDING ADJACENT GLAZED-IN PANELS, ALUMINUM THRESHOLDS AND HARDWARE. TURN OVER DOORS AND HARDWARE TO THE OWNER, FOR THEIR STOCK, IF REQUESTED. MASONRY SILL WALLS BELOW TO REMAIN. PREPARE OPENING TO RECEIVE NEW
- 4 REMOVE EXISTING LOCKSET. PREPARE DOOR TO RECEIVE NEW ELECTRONIC LOCKSET, AND RELATED HARDWARE. AS PART OF ALTERNATE NO. A-3. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- LOCKSET, AND RELATED HARDWARE. REFER TO ELECTRICAL DRAWINGS FOR
- REMOVE GLAZING FROM EXISTING DOOR AND PREPARE OPENING FOR NEW GLAZING AS PART OF ALTERNATE NO. A1.
- 7 REMOVE GLAZING FROM EXISTING FRAME AND PREPARE OPENING FOR NEW GLAZING AS PART OF ALTERNATE NO. A1.
- (8) REMOVE EXISTING FRAME STRIKE AND PREPARE FRAME TO RECEIVE NEW
- PREMOVE CARPET FLOOR FINISH AND PREPARE SUBSTRATE TO RECEIVE NEW FINISHES SCHEDULED. REFER TO FINISH DRAWINGS.
- REMOVE RESILIENT TILE FLOOR FINISH AND PREPARE SUBSTRATE TO RECEIVE NEW FINISHES SCHEDULED. REFER TO FINISH DRAWINGS.
- 11) REMOVE EXISTING GLAZING ALUMINUM WINDOW FRAME FROM EXISTING OPENING. PREPARE OPENING TO RECEIVE NEW TRANSLUCENT PANEL SYSTEM
- $\overline{\langle 12 \rangle}$  remove existing casework and salvage for reinstallation, typ.
- 13 REMOVE EXISTING CASEWORK AND TURN OVER TO OWNER, IF REQUESTED.
- REMOVE PORTION OF EXISTING WALL AND PREPARE OPENING TO RECEIVE NEW FRAME.
- 15 REMOVE EXISTING 10'X4' TACKBOARD AND ADHESIVES. PATCH AND REPAIR WALL FOR NEW PAINT FINISH.
- REMOVE EXISTING MILLWORK FRONT FULL LENGTH. RETAIN EXISTING ELECTRICAL WIRING AND BOXES FOR REINSTALLATION IN NEW MILLWORK FRONT.

ARCHITECTURE

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD

> PH • 248.338.4561 FX • 248.338.0223 EM · INFO @TMP-ARCHITECTURE.COM

BLOOMFIELD HILLS • MICHIGAN • 48302

REGISTRATION SEAL

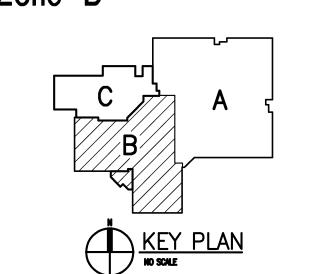
CONSULTANT

PROJECT TITLE

# Bingham Farms Elementary School Remodeling

Birmingham Public Schools Bingham Farms, Michigan

DRAWING TITLE Demolition Plan -Zone 'B'



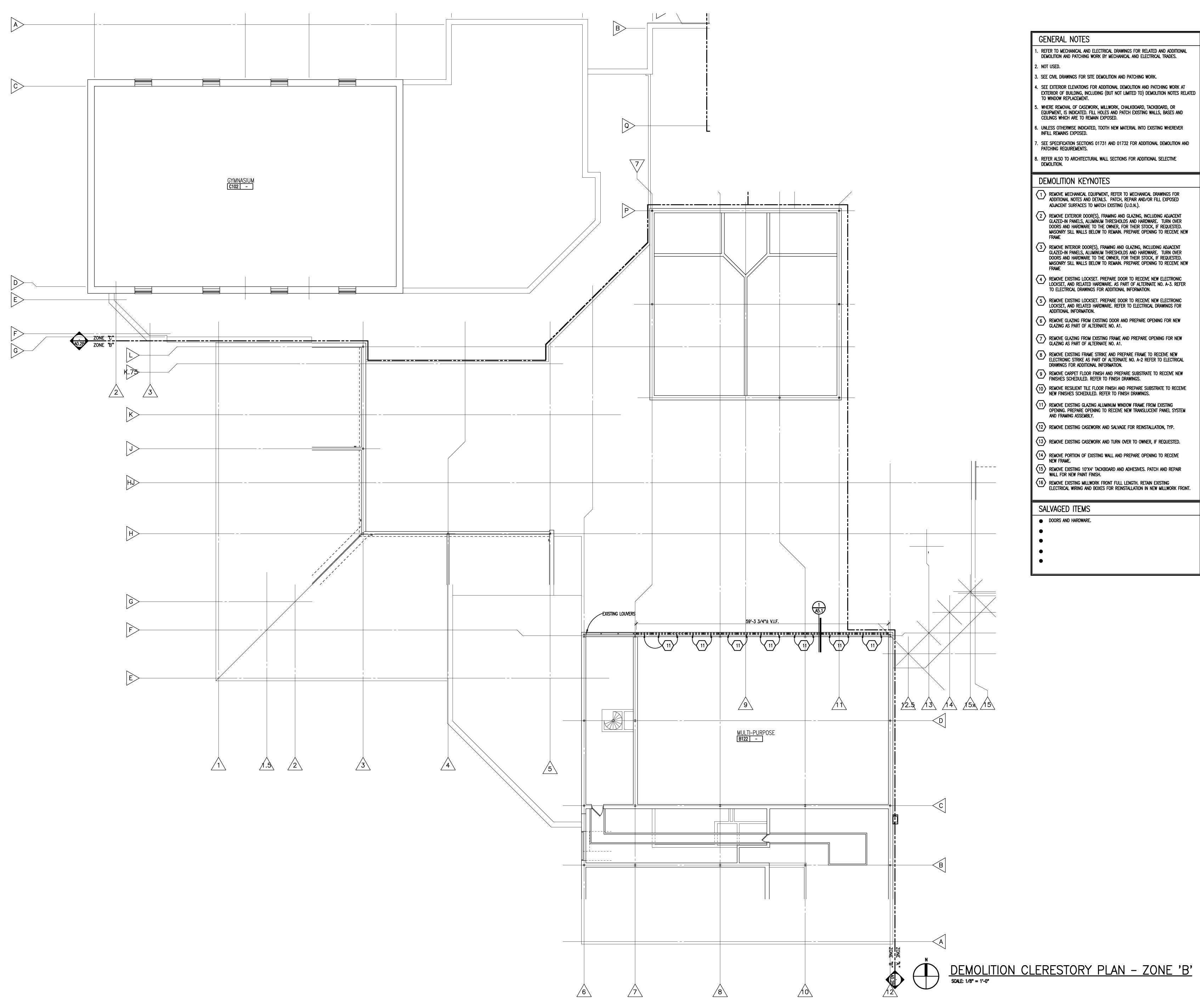
ISSUE DAT	TES
•	<u>.</u>
•	
•	_ <u>.</u>
•	<u> </u>
•	<u>.</u>
•	<u>.</u>
•	<u>.</u>
•	<u> </u>
•	_ •
•	· · · · · · · · · · · · · · · · · · ·
•	· · · · · · · · · · · · · · · · · · ·
02-15-2016	BP NO. 1 - BIDS
DATE:	ISSUED FOR:
DRAWN	AKW, GAS
CHECKED	JJM
APPROVED	JJC

PROJECT NO.

15098

DRAWING NO.

**A0.1B** 



GENERAL NOTES

- I. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED AND ADDITIONAL DEMOLITION AND PATCHING WORK BY MECHANICAL AND ELECTRICAL TRADES.
- 3. SEE CIVIL DRAWINGS FOR SITE DEMOLITION AND PATCHING WORK.
- 4. SEE EXTERIOR ELEVATIONS FOR ADDITIONAL DEMOLITION AND PATCHING WORK AT EXTERIOR OF BUILDING, INCLUDING (BUT NOT LIMITED TO) DEMOLITION NOTES RELATED
- . WHERE REMOVAL OF CASEWORK, MILLWORK, CHALKBOARD, TACKBOARD, OR EQUIPMENT, IS INDICATED. FILL HOLES AND PATCH EXISTING WALLS, BASES AND CEILINGS WHICH ARE TO REMAIN EXPOSED.
- 5. UNLESS OTHERWISE INDICATED, TOOTH NEW MATERIAL INTO EXISTING WHEREVER INFILL REMAINS EXPOSED.
- 7. SEE SPECIFICATION SECTIONS 01731 AND 01732 FOR ADDITIONAL DEMOLITION AND PATCHING REQUIREMENTS.
- B. REFER ALSO TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL SELECTIVE

#### DEMOLITION KEYNOTES

- REMOVE MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS. PATCH, REPAIR AND/OR FILL EXPOSED ADJACENT SURFACES TO MATCH EXISTING (U.O.N.).
- 2 REMOVE EXTERIOR DOOR(S), FRAMING AND GLAZING, INCLUDING ADJACENT GLAZED-IN PANELS, ALUMINUM THRESHOLDS AND HARDWARE. TURN OVER DOORS AND HARDWARE TO THE OWNER, FOR THEIR STOCK, IF REQUESTED. MASONRY SILL WALLS BELOW TO REMAIN. PREPARE OPENING TO RECEIVE NEW
- REMOVE INTERIOR DOOR(S), FRAMING AND GLAZING, INCLUDING ADJACENT GLAZED-IN PANELS, ALUMINUM THRESHOLDS AND HARDWARE. TURN OVER DOORS AND HARDWARE TO THE OWNER, FOR THEIR STOCK, IF REQUESTED. MASONRY SILL WALLS BELOW TO REMAIN. PREPARE OPENING TO RECEIVE NEW
- REMOVE EXISTING LOCKSET. PREPARE DOOR TO RECEIVE NEW ELECTRONIC LOCKSET, AND RELATED HARDWARE. AS PART OF ALTERNATE NO. A-3. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING LOCKSET. PREPARE DOOR TO RECEIVE NEW ELECTRONIC LOCKSET, AND RELATED HARDWARE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE GLAZING FROM EXISTING DOOR AND PREPARE OPENING FOR NEW GLAZING AS PART OF ALTERNATE NO. A1.
- 7 REMOVE GLAZING FROM EXISTING FRAME AND PREPARE OPENING FOR NEW GLAZING AS PART OF ALTERNATE NO. A1.
- 8 REMOVE EXISTING FRAME STRIKE AND PREPARE FRAME TO RECEIVE NEW
- 9 REMOVE CARPET FLOOR FINISH AND PREPARE SUBSTRATE TO RECEIVE NEW FINISHES SCHEDULED. REFER TO FINISH DRAWINGS.
- REMOVE RESILIENT TILE FLOOR FINISH AND PREPARE SUBSTRATE TO RECEIVE NEW FINISHES SCHEDULED. REFER TO FINISH DRAWINGS.
- 11 REMOVE EXISTING GLAZING ALUMINUM WINDOW FRAME FROM EXISTING OPENING. PREPARE OPENING TO RECEIVE NEW TRANSLUCENT PANEL SYSTEM AND FRAMING ASSEMBLY.
- (12) REMOVE EXISTING CASEWORK AND SALVAGE FOR REINSTALLATION, TYP.
- (13) REMOVE EXISTING CASEWORK AND TURN OVER TO OWNER, IF REQUESTED.
- REMOVE PORTION OF EXISTING WALL AND PREPARE OPENING TO RECEIVE NEW FRAME. REMOVE EXISTING 10'X4' TACKBOARD AND ADHESIVES. PATCH AND REPAIR WALL FOR NEW PAINT FINISH.
- REMOVE EXISTING MILLWORK FRONT FULL LENGTH. RETAIN EXISTING ELECTRICAL WIRING AND BOXES FOR REINSTALLATION IN NEW MILLWORK FRONT.

### SALVAGED ITEMS

TMP ARCHITECTURE INC

ARCHITECTURE

1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS · MICHIGAN · 48302 PH · 248.338.4561 FX · 248.338.0223 EM · INFO @TMP-ARCHITECTURE.COM

REGISTRATION SEAL

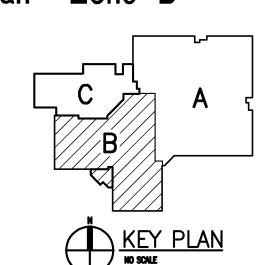
CONSULTANT

PROJECT TITLE

# Bingham Farms Elementary School Remodeling

Birmingham Public Schools Bingham Farms, Michigan

DEMOIITIE Demolition Clerestory Plan - Zone 'B'



_ <u>•</u>	_
•	
•	-
	-
	-
	-
	-
- <u>·</u>	-
- <del>·</del>	-
- ··	-
- ··	-
- PR NO 1 - PINS	-
BF NO. 1 - BIDS	-
ISSUED FOR:	
AKW, GAS	
JMM	-
JJC	-
	AKW, GAS

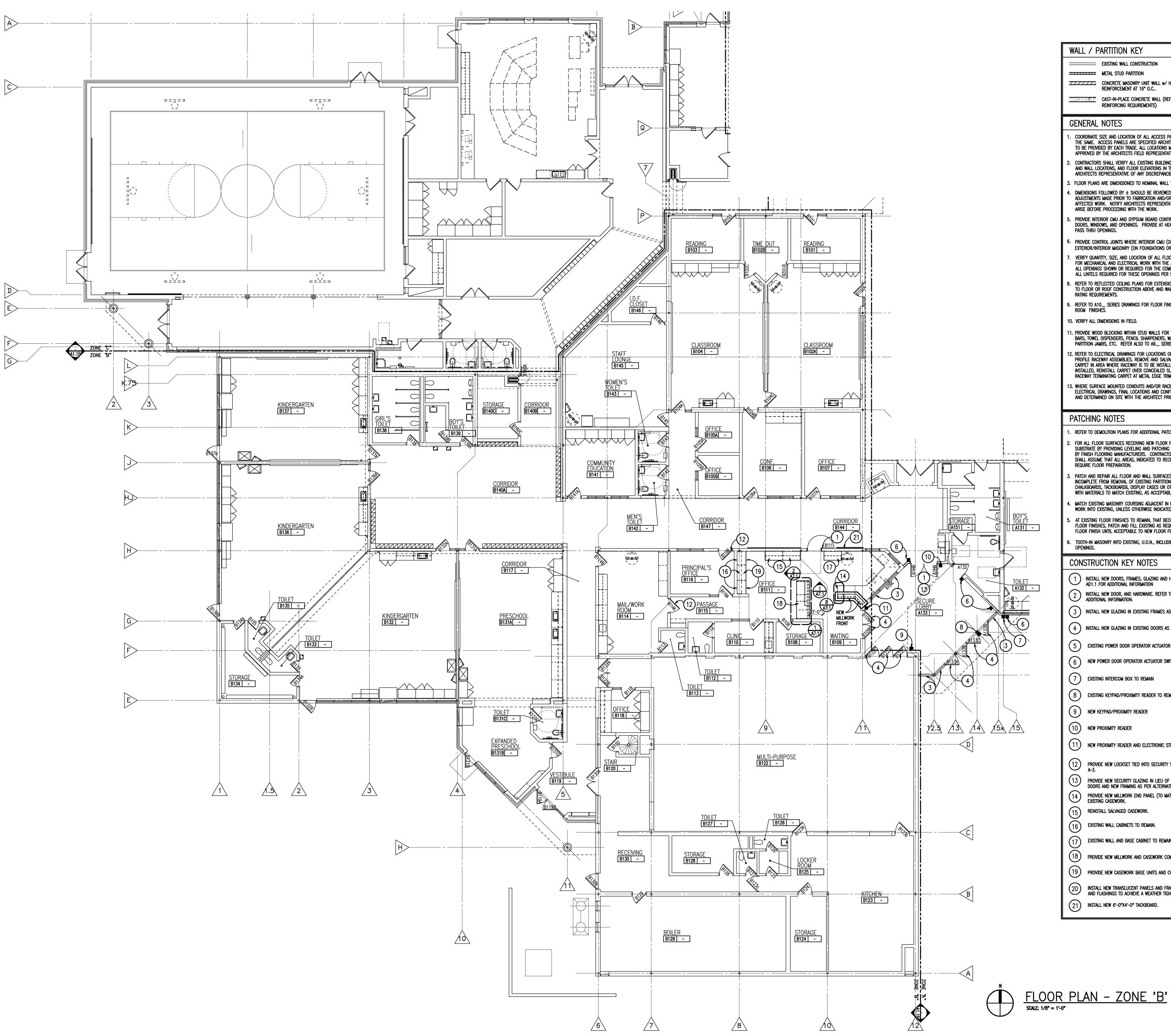
PROJECT NO.

ISSUE DATES

15098

DRAWING NO.

**A0.2B** 



WALL / PARTITION KEY

EXISTING WALL CONSTRUCTION

METAL STUD PARTITION

CONCRETE MASONRY UNIT WALL w/ HORIZONTAL JOINT REINFORCEMENT AT 16" O.C..

CAST-IN-PLACE CONCRETE WALL (REFER TO STRUCTURAL FOR REINFORCING REQUIREMENTS)

#### GENERAL NOTES

COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING THE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE REQUIRED TO BE PROVIDED BY EACH TRADE. ALL LOCATIONS MUST BE COORDINATED AND APPROVED BY THE ARCHITECTS FIELD REPRESENTATIVE.

CONTRACTORS SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS, AND FLOOR ELEVATIONS IN THE FIELD AND NOTIFY THE ARCHITECTS REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK.

- 3. FLOOR PLANS ARE DIMENSIONED TO NOMINAL WALL THICKNESS TYPICAL. DIMENSIONS FOLLOWED BY ± SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF AFFECTED WORK. NOTIFY ARCHITECTS REPRESENTATIVE IF DISCREPANCIES ARISE BEFORE PROCEEDING WITH THE WORK.
- PROVIDE INTERIOR CMU AND GYPSUM BOARD CONTROL JOINTS AT BOTH JAMBS OF DOORS, WINDOWS, AND OPENINGS. PROVIDE AT HEAD AND SILL OF WINDOWS AND PASS THRU OPENINGS.
- PROVIDE CONTROL JOINTS WHERE INTERIOR CMU (ON SLAB) ABUTS EXTERIOR/INTERIOR MASONRY (ON FOUNDATIONS OR FOOTINGS)
- VERIFY QUANTITY, SIZE, AND LOCATION OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL LINTELS REQUIRED FOR THESE OPENINGS PER SPECIFICATIONS.
- REFER TO REFLECTED CEILING PLANS FOR EXTENSION OF PARTITION WALLS TO FLOOR OR ROOF CONSTRUCTION ABOVE AND WALL FIRE RESISTANCE RATING REQUIREMENTS.
- . REFER TO A10.\_ SERIES DRAWINGS FOR FLOOR FINISH PATTERNS AND ROOM FINISHES.
- 10. VERIFY ALL DIMENSIONS IN FIELD.
- 1. PROVIDE WOOD BLOCKING WITHIN STUD WALLS FOR WALL MOUNTED ITEMS i.e. GRAB BARS, TOWEL DISPENSERS, PENCIL SHARPENERS, WALL STOPS, ACCORDIAN PARTITION JAMBS, ETC. REFER ALSO TO A9.\_ SERIES AND A6.\_ SERIES DRAWINGS.
- 2. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF NEW FLOOR MOUNTED, LOW PROFILE RACEWAY ASSEMBLIES. REMOVE AND SALVAGE PORTIONS OF EXISTING CARPET IN AREA WHERE RACEWAY IS TO BE INSTALLED. ONCE RACEWAY IS INSTALLED, REINSTALL CARPET OVER CONCEALED SLOPED BLOCKING PORTION OF RACEWAY TERMINATING CARPET AT METAL EDGE TRIM OF RACEWAY.
- 6. WHERE SURFACE MOUNTED CONDUITS AND/OR RACEWAYS ARE INDICATED ON ELECTRICAL DRAWINGS, FINAL LOCATIONS AND CONFIGURATIONS ARETO BE REVIEWED AND DETERMINED ON SITE WITH THE ARCHITECT PRIOR TO INSTALLATION.

#### PATCHING NOTES

. REFER TO DEMOLITION PLANS FOR ADDITIONAL PATCHING NOTES.

FOR ALL FLOOR SURFACES RECEIVING NEW FLOOR FINISHES, PREPARE SUBSTRATE BY PROVIDING LEVELING AND PATCHING COMPOUNDS RECOMMENDED BY FINISH FLOORING MANUFACTURERS. CONTRACTOR'S BASE BID PROPOSAL SHALL ASSUME THAT ALL AREAS, INDICATED TO RECEIVE NEW FINISHES, WILL

PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, CHALKBOARDS, TACKBOARDS, DISPLAY CASES OR OTHER FIXED EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ARCHITECT.

MATCH EXISTING MASONRY COURSING ADJACENT IN EACH AREA AND TOOTH NEW WORK INTO EXISTING, UNLESS OTHERWISE INDICATED.

- AT EXISTING FLOOR FINISHES TO REMAIN, THAT BECOME SUBSTRATES FOR NEW FLOOR FINISHES, PATCH AND FILL EXISTING AS REQUIRED TO PREPARE FOR NEW FLOOR FINISH UNTIL ACCEPTABLE TO NEW FLOOR FINISH CONTRACTOR.
- TOOTH-IN MASONRY INTO EXISTING, U.O.N., INCLUDING JAMBS OF DOOR AND OTHER

#### CONSTRUCTION KEY NOTES

- 1) INSTALL NEW DOORS, FRAMES, GLAZING AND HARDWARE. REFER TO DRAWING AD1.1 FOR ADDITIONAL INFORMATION
- 2 INSTALL NEW DOOR, AND HARDWARE. REFER TO DRAWING AD1.1 FOR ADDITIONAL INFORMATION.
- (3) INSTALL NEW GLAZING IN EXISTING FRAMES AS PART OF ALTERNATE NO. A1
- 4) INSTALL NEW GLAZING IN EXISTING DOORS AS PART OF ALTERNATE NO. A1
- 5 EXISTING POWER DOOR OPERATOR ACTUATOR SWITCH TO REMAIN
- 6 NEW POWER DOOR OPERATOR ACTUATOR SWITCH
- 7 EXISTING INTERCOM BOX TO REMAIN
- EXISTING KEYPAD/PROXIMITY READER TO REMAIN
- 9 NEW KEYPAD/PROXIMITY READER
- (10) NEW PROXIMITY READER
- 11) NEW PROXIMITY READER AND ELECTRONIC STRIKE (REFER TO ALTERNATE A-2)
- PROVIDE NEW LOCKSET TIED INTO SECURITY SYSTEM AS PER ALTERNATE NO. A-3.
- PROVIDE NEW SECURITY GLAZING IN LIEU OF SCHEDULED GLAZING IN NEW DOORS AND NEW FRAMING AS PER ALTERNATE NO. A-1.
- PROVIDE NEW MILLWORK END PANEL (TO MATCH), TO END OF EXISTING CASEWORK.
- REINSTALL SALVAGED CASEWORK.
- (16) EXISTING WALL CABINETS TO REMAIN.
- EXISTING WALL AND BASE CABINET TO REMAIN. PROVIDE NEW COUNTERTOP.
- (18) PROVIDE NEW MILLWORK AND CASEWORK COMBINATION UNIT.
- 19 PROVIDE NEW CASEWORK BASE UNITS AND COUNTERTOP.
- install New Translucent Panels and Framing System. Provide Sealant and Flashings to achieve a Weather Tight System.
- 21) INSTALL NEW 6'-0"X4'-0" TACKBOARD.



TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM · INFO @TMP-ARCHITECTURE.COM

REGISTRATION SEAL

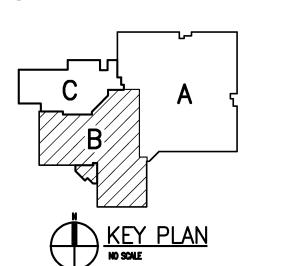
CONSULTANT

PROJECT TITLE

# Bingham Farms Elementary School Remodeling

Birmingham Public Schools Bingham Farms, Michigan

DRAWING TITLE Floor Plan -Zone 'B'



•	•
•	•
•	•
•	•
•	•
•	•
•	•
•	•
•	•

BP NO. 1 - BIDS ISSUED FOR:

DRAWN CHECKED APPROVED JJC

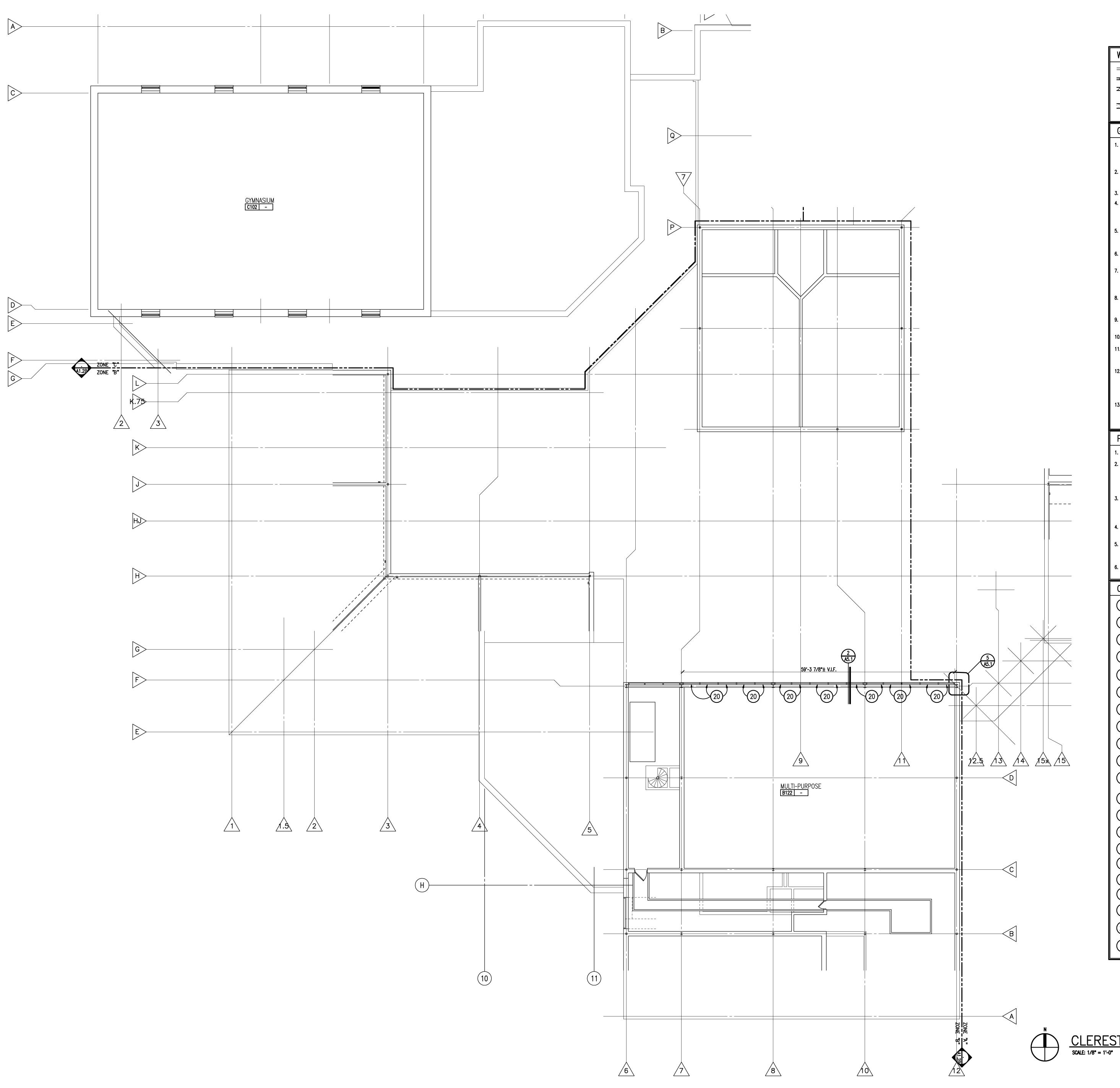
PROJECT NO.

**ISSUE DATES** 

15098

DRAWING NO.

**A1.1B** 



WALL / PARTITION KEY

EXISTING WALL CONSTRUCTION

METAL STUD PARTITION CONCRETE MASONRY UNIT WALL w/ HORIZONTAL JOINT

REINFORCEMENT AT 16" O.C..

CAST-IN-PLACE CONCRETE WALL (REFER TO STRUCTURAL FOR REINFORCING REQUIREMENTS)

#### GENERAL NOTES

- COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING THE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE REQUIRED TO BE PROVIDED BY EACH TRADE. ALL LOCATIONS MUST BE COORDINATED AND APPROVED BY THE ARCHITECTS FIELD REPRESENTATIVE.
- CONTRACTORS SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS, AND FLOOR ELEVATIONS IN THE FIELD AND NOTIFY THE ARCHITECTS REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK. 3. FLOOR PLANS ARE DIMENSIONED TO NOMINAL WALL THICKNESS – TYPICAL.
- . DIMENSIONS FOLLOWED BY  $\pm$  SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF AFFECTED WORK. NOTIFY ARCHITECTS REPRESENTATIVE IF DISCREPANCIES ARISE BEFORE PROCEEDING WITH THE WORK.
- PROVIDE INTERIOR CMU AND GYPSUM BOARD CONTROL JOINTS AT BOTH JAMBS OF DOORS, WINDOWS, AND OPENINGS. PROVIDE AT HEAD AND SILL OF WINDOWS AND PASS THRU OPENINGS.
- PROVIDE CONTROL JOINTS WHERE INTERIOR CMU (ON SLAB) ABUTS EXTERIOR/INTERIOR MASONRY (ON FOUNDATIONS OR FOOTINGS)
- VERIFY QUANTITY, SIZE, AND LOCATION OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL LINTELS REQUIRED FOR THESE OPENINGS PER SPECIFICATIONS.
- REFER TO REFLECTED CEILING PLANS FOR EXTENSION OF PARTITION WALLS TO FLOOR OR ROOF CONSTRUCTION ABOVE AND WALL FIRE RESISTANCE RATING REQUIREMENTS.
- ). REFER TO A10.\_ SERIES DRAWINGS FOR FLOOR FINISH PATTERNS AND ROOM FINISHES.
- 10. VERIFY ALL DIMENSIONS IN FIELD.
- 1. PROVIDE WOOD BLOCKING WITHIN STUD WALLS FOR WALL MOUNTED ITEMS i.e. GRAB BARS, TOWEL DISPENSERS, PENCIL SHARPENERS, WALL STOPS, ACCORDIAN PARTITION JAMBS, ETC. REFER ALSO TO A9.\_ SERIES AND A6.\_ SERIES DRAWINGS.
- 2. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF NEW FLOOR MOUNTED, LOW PROFILE RACEWAY ASSEMBLIES. REMOVE AND SALVAGE PORTIONS OF EXISTING CARPET IN AREA WHERE RACEWAY IS TO BE INSTALLED. ONCE RACEWAY IS INSTALLED, REINSTALL CARPET OVER CONCEALED SLOPED BLOCKING PORTION OF RACEWAY TERMINATING CARPET AT METAL EDGE TRIM OF RACEWAY.
- 3. WHERE SURFACE MOUNTED CONDUITS AND/OR RACEWAYS ARE INDICATED ON ELECTRICAL DRAWINGS, FINAL LOCATIONS AND CONFIGURATIONS ARETO BE REVIEWED AND DETERMINED ON SITE WITH THE ARCHITECT PRIOR TO INSTALLATION.

#### PATCHING NOTES

1. REFER TO DEMOLITION PLANS FOR ADDITIONAL PATCHING NOTES.

- . FOR ALL FLOOR SURFACES RECEIVING NEW FLOOR FINISHES, PREPARE SUBSTRATE BY PROVIDING LEVELING AND PATCHING COMPOUNDS RECOMMENDED BY FINISH FLOORING MANUFACTURERS. CONTRACTOR'S BASE BID PROPOSAL SHALL ASSUME THAT ALL AREAS, INDICATED TO RECEIVE NEW FINISHES, WILL REQUIRE FLOOR PREPARATION.
- PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, CHALKBOARDS, TACKBOARDS, DISPLAY CASES OR OTHER FIXED EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ARCHITECT.
- . MATCH EXISTING MASONRY COURSING ADJACENT IN EACH AREA AND TOOTH NEW WORK INTO EXISTING, UNLESS OTHERWISE INDICATED.
- AT EXISTING FLOOR FINISHES TO REMAIN, THAT BECOME SUBSTRATES FOR NEW FLOOR FINISHES, PATCH AND FILL EXISTING AS REQUIRED TO PREPARE FOR NEW FLOOR FINISH UNTIL ACCEPTABLE TO NEW FLOOR FINISH CONTRACTOR.
- TOOTH-IN MASONRY INTO EXISTING, U.O.N., INCLUDING JAMBS OF DOOR AND OTHER

#### CONSTRUCTION KEY NOTES

- 1 INSTALL NEW DOORS, FRAMES, GLAZING AND HARDWARE. REFER TO DRAWING AD1.1 FOR ADDITIONAL INFORMATION
- 2 INSTALL NEW DOOR, AND HARDWARE. REFER TO DRAWING AD1.1 FOR ADDITIONAL INFORMATION.
- 3 INSTALL NEW GLAZING IN EXISTING FRAMES AS PART OF ALTERNATE NO. A1
- 4 INSTALL NEW GLAZING IN EXISTING DOORS AS PART OF ALTERNATE NO. A1
- 5 EXISTING POWER DOOR OPERATOR ACTUATOR SWITCH TO REMAIN
- 6 NEW POWER DOOR OPERATOR ACTUATOR SWITCH
- 7 EXISTING INTERCOM BOX TO REMAIN
- 8 EXISTING KEYPAD/PROXIMITY READER TO REMAIN
- 9 NEW KEYPAD/PROXIMITY READER
- 10 NEW PROXIMITY READER
- 11) NEW PROXIMITY READER AND ELECTRONIC STRIKE (REFER TO ALTERNATE A-2)
- PROVIDE NEW LOCKSET TIED INTO SECURITY SYSTEM AS PER ALTERNATE NO. A-3.
- PROVIDE NEW SECURITY GLAZING IN LIEU OF SCHEDULED GLAZING IN NEW DOORS AND NEW FRAMING AS PER ALTERNATE NO. A-1.
- PROVIDE NEW MILLWORK END PANEL (TO MATCH), TO END OF EXISTING CASEWORK.
- REINSTALL SALVAGED CASEWORK.
- 16 EXISTING WALL CABINETS TO REMAIN.
- EXISTING WALL AND BASE CABINET TO REMAIN. PROVIDE NEW COUNTERTOP.
- 18) PROVIDE NEW MILLWORK AND CASEWORK COMBINATION UNIT.
- PROVIDE NEW CASEWORK BASE UNITS AND COUNTERTOP.
- install New Translucent Panels and Framing System. Provide Sealant and Flashings to achieve a Weather Tight System.
- 21 INSTALL NEW 6'-0"X4'-0" TACKBOARD.

ARCHITECTURE

TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM · INFO @TMP-ARCHITECTURE.COM

REGISTRATION SEAL

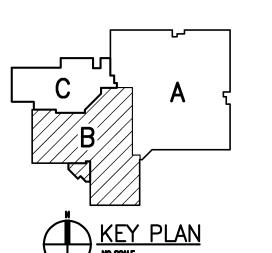
CONSULTANT

PROJECT TITLE

# Bingham Farms Elementary School Remodeling

Birmingham Public Schools Bingham Farms, Michigan

DRAWING TITLE Clerestory Plan -Zone 'B'



BP NO. 1 - BIDS ISSUED FOR:

DATE:

CHECKED JMM APPROVED JJC

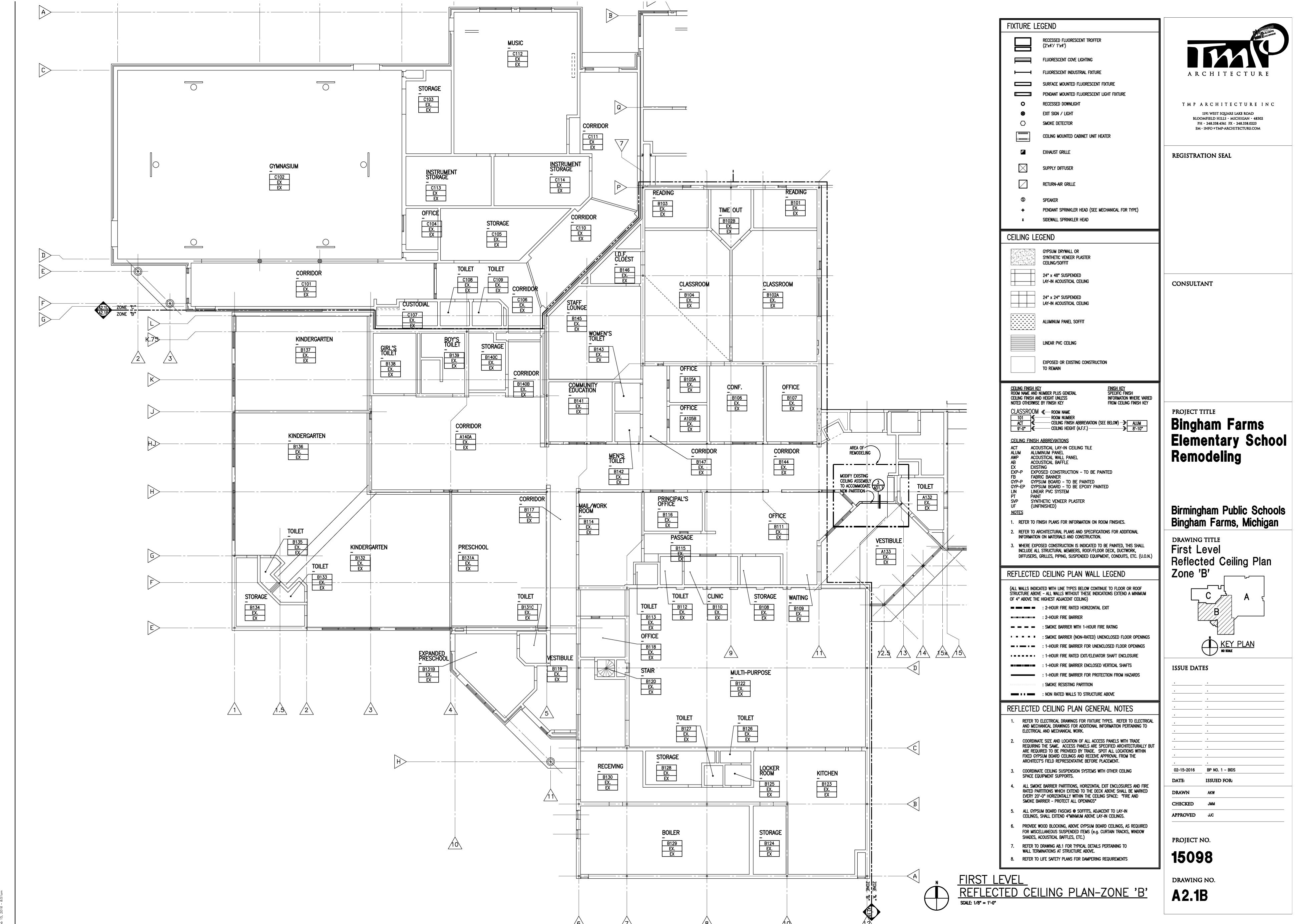
PROJECT NO.

15098

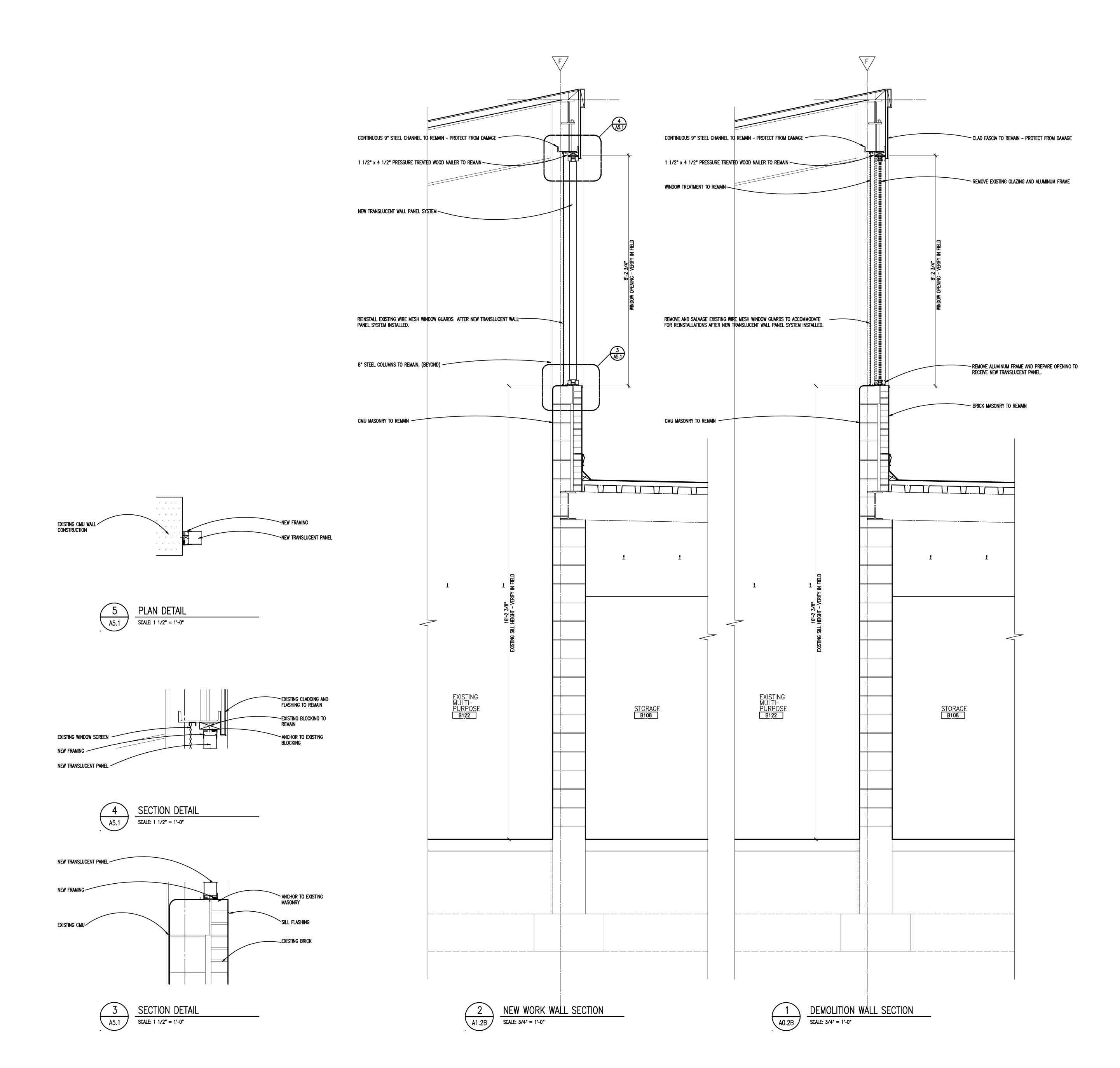
DRAWING NO.

A1.2B

CLERESTORY PLAN - ZONE 'B'
SCALE: 1/8" = 1'-0"



wing File: Q:\acad\2015tmpa\15098\15098\_cd\15098\_a21b.d



ARCHITECTURE

T M P A R C H I T E C T U R E I N C

1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO ®TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

# Bingham Farms Elementary School Remodeling

Birmingham Public Schools Bingham Farms, Michigan

DRAWING TITLE
Wall Sections &
Plan Details

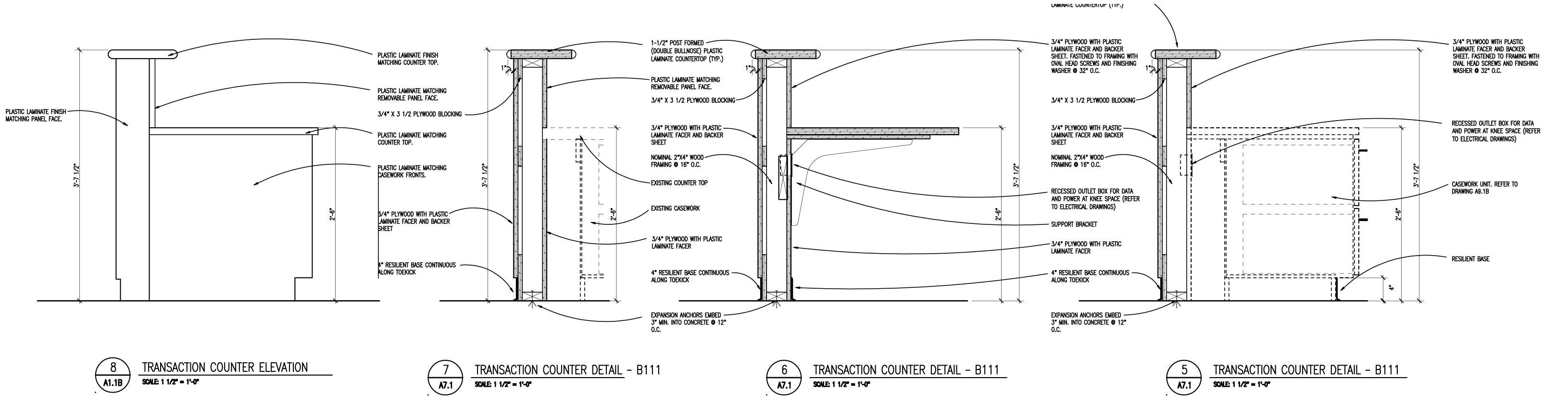
DATE:	ISSUED FOR:
02-15-2016	BP NO. 1 - BIDS
•	<u>.</u>
•	•
•	<u>.</u>

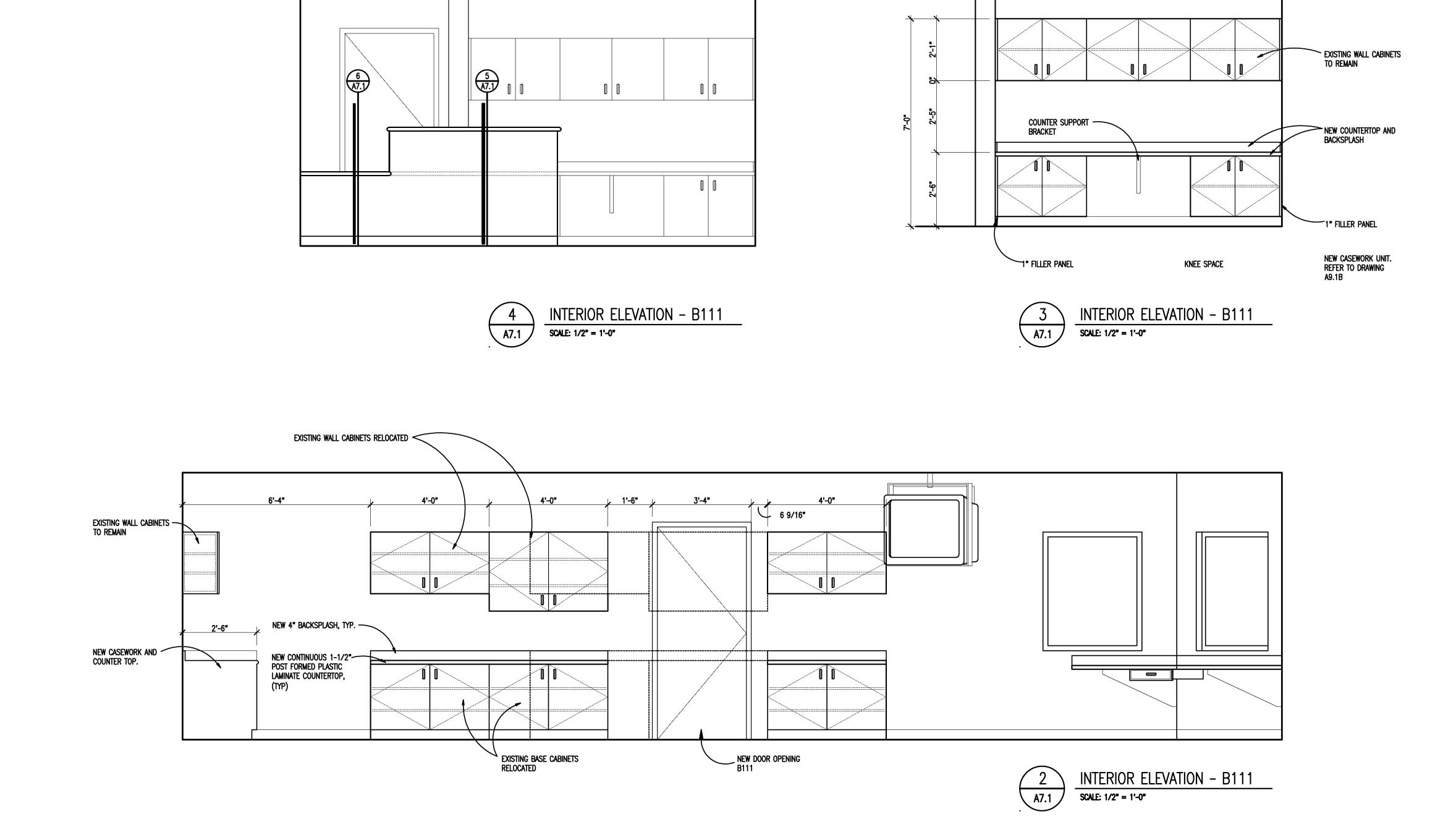
DRAWN AKW
CHECKED JMM
APPROVED JJC

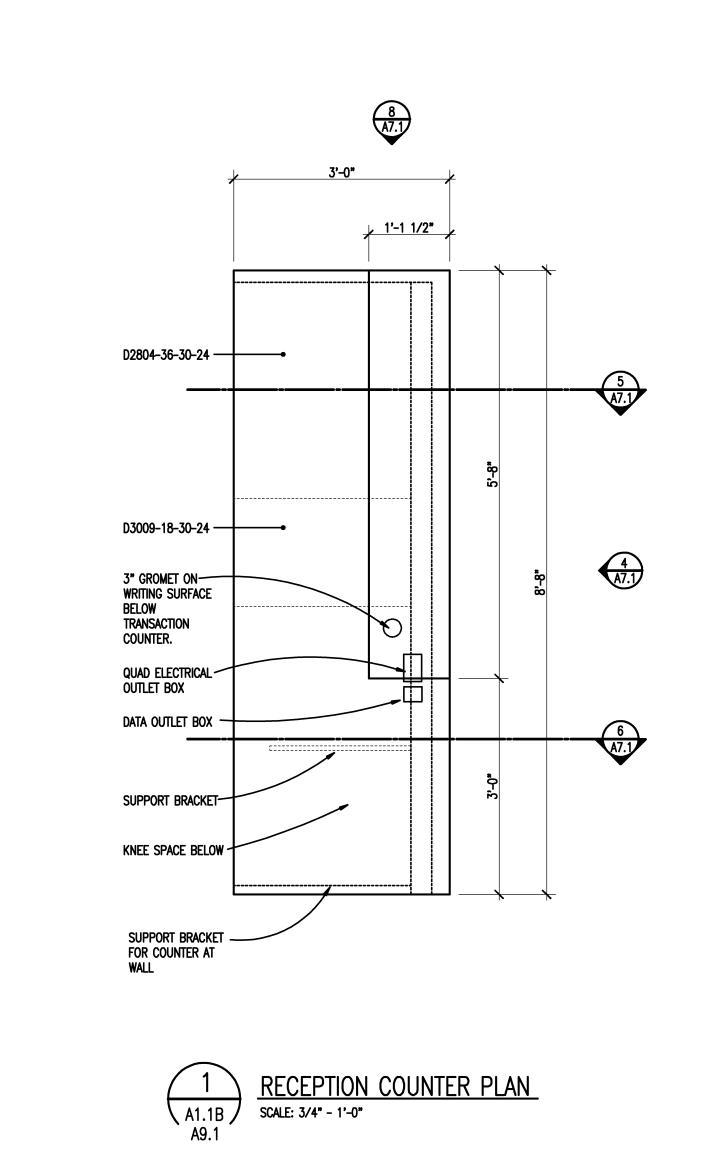
PROJECT NO.

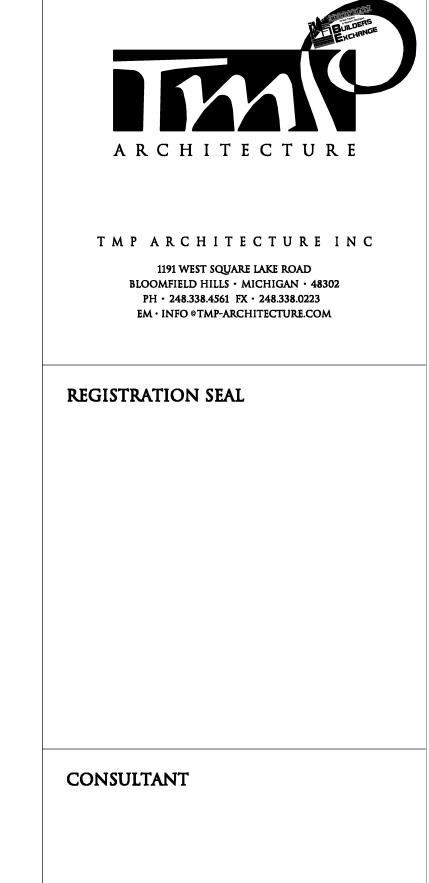
**15098**DRAWING NO.

**A5.1** 







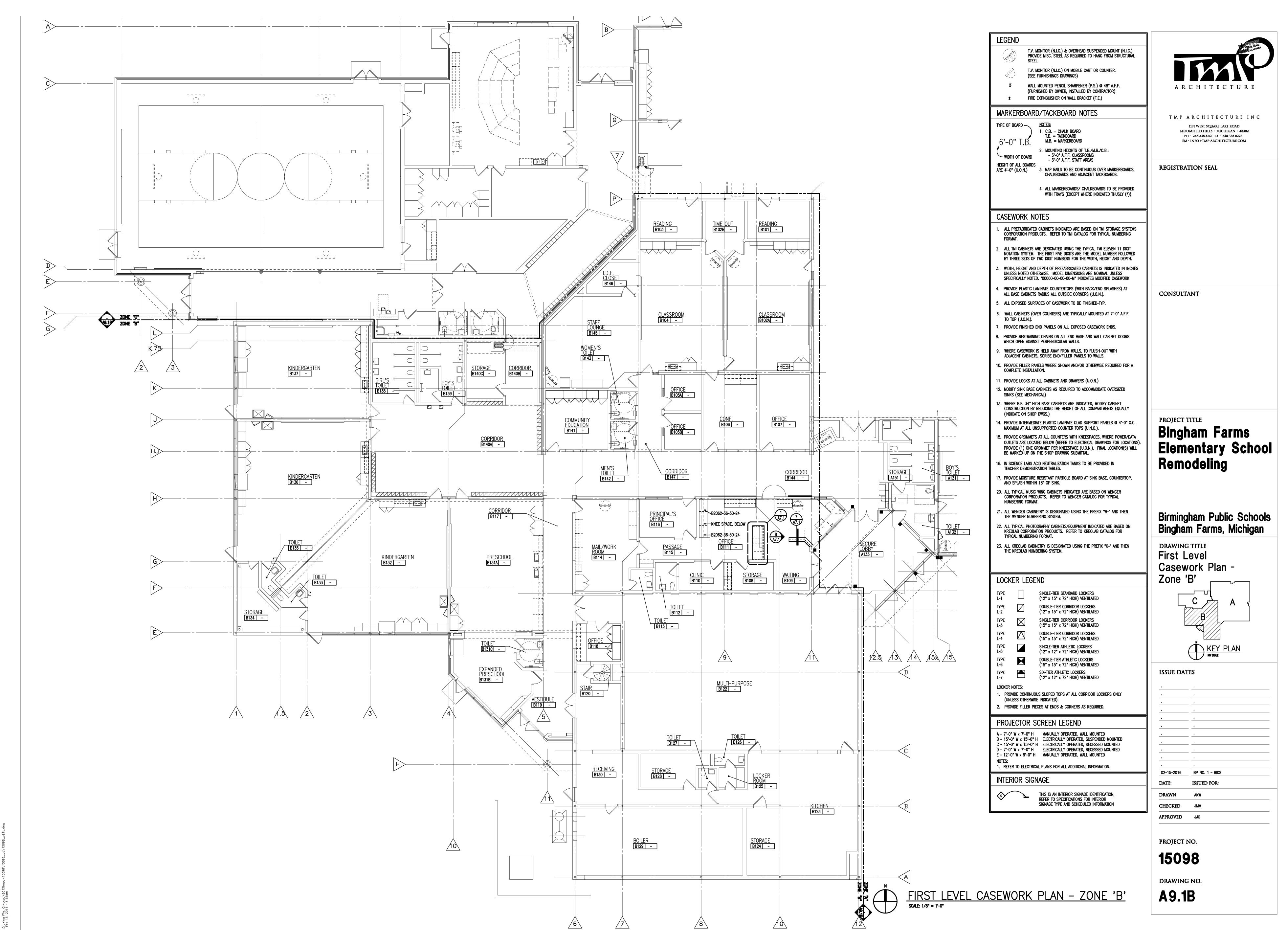


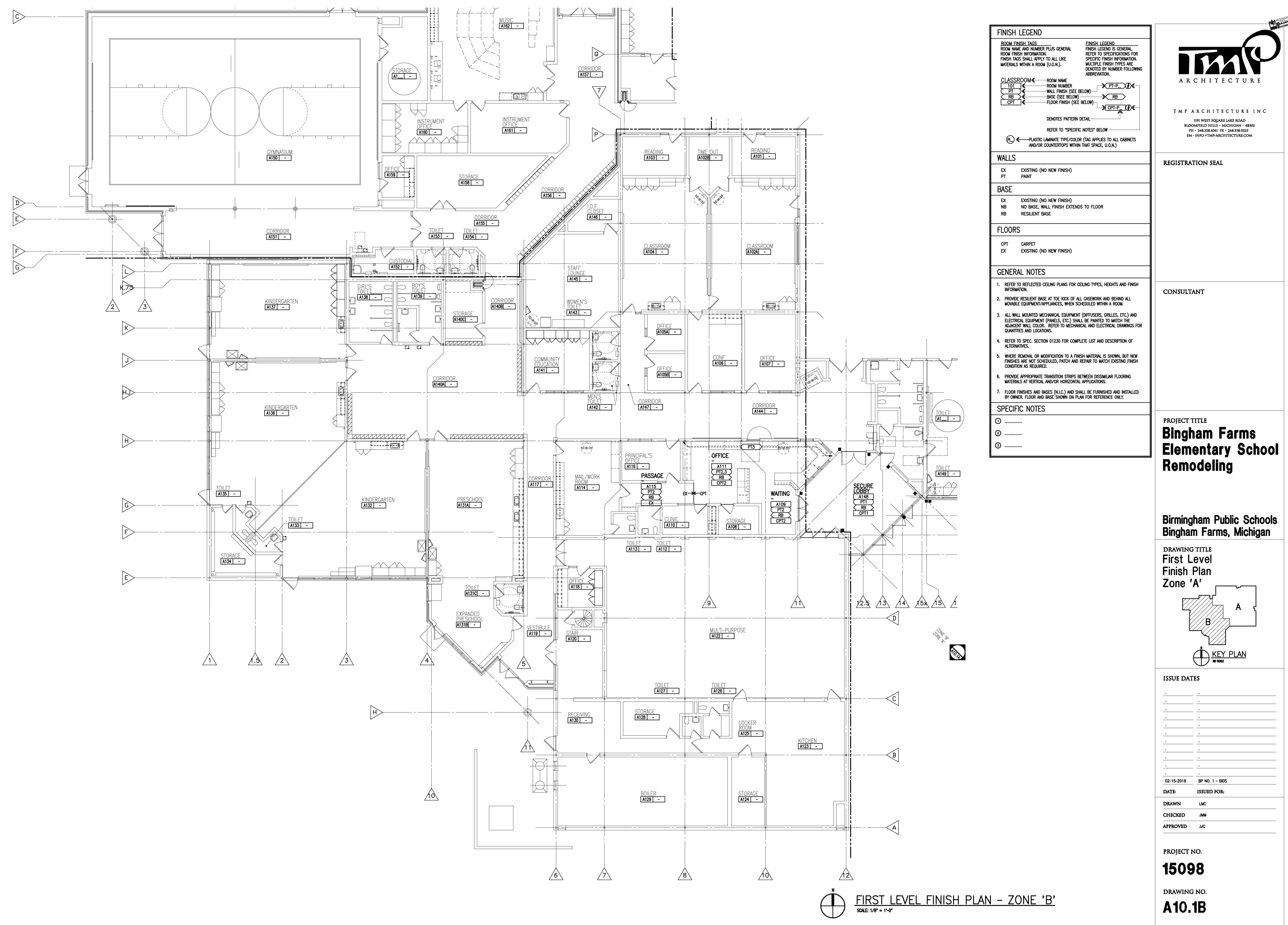
# Bingham Farms Elementary School Remodeling

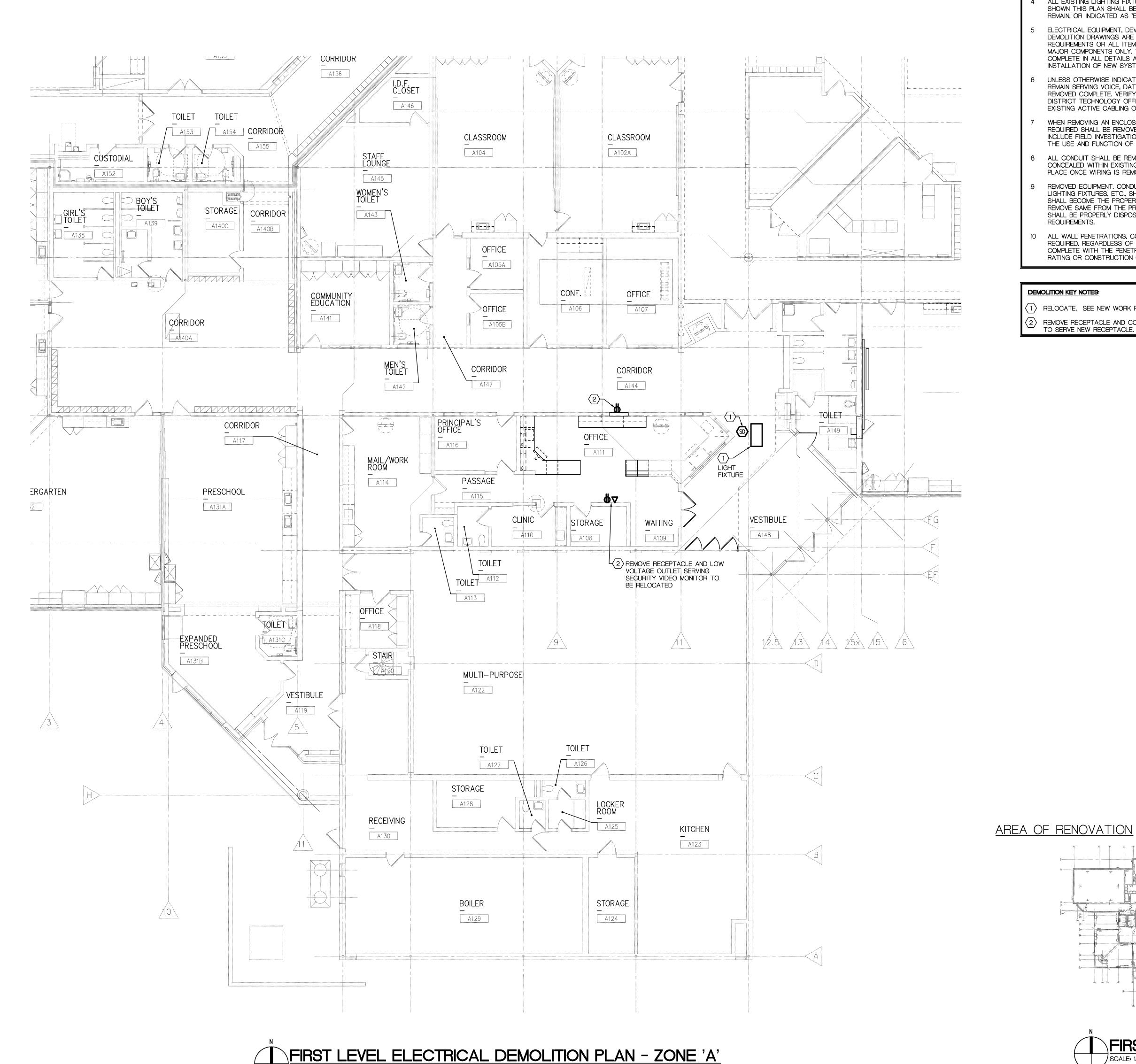
## Birmingham Public Schools Bingham Farms, Michigan

DRAWING TITLE
Interior Elevations

•	· ·	
•		
•	•	
•	· ·	
•	•	
•		
•	- ·	
•	•	
•	•	
02-15-2016	BP NO. 1 - BIDS	
DATE:	ISSUED FOR:	
DRAWN	AKW	
CHECKED	JMM	
A DDD OLED	JJC .	
APPROVED		
	NO.	
PROJECT I		







**DEMOLITION GENERAL NOTES:** 

REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.

- ELECTRICAL CONTRACTOR SHALL VISIT SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. INCLUDE ALL DEMOLITION WORK REQUIRED AND MAKE THE SPACE READY FOR THE INSTALLATION OF NEW SYSTEMS AND EQUIPMENT.
- ALL ELECTRICAL DEVICES, LIGHTING, MECHANICAL EQUIPMENT SERVICES, ETC. DOWNSTREAM OF DEVICES INTENDED TO BE DEMOLISHED OR REVISED SHALL REMAIN OPERATIONAL. PROVIDE ALL BRANCH CIRCUIT WIRING REVISIONS AS REQUIRED TO MAINTAIN OPERATION OF ALL DEVICES, LIGHTING, ETC. NOT INTENDED TO BE REVISED.
- ALL EXISTING LIGHTING FIXTURES, DEVICES, CONDUIT, WIRING, BOXES, ETC. SHOWN THIS PLAN SHALL BE DEMOLISHED UNLESS OTHERWISE INDICATED TO REMAIN, OR INDICATED AS "EXISTING TO REMAIN", IN CONTRACT DOCUMENTS.
- ELECTRICAL EQUIPMENT, DEVICES, BOXES, ETC. INDICATED ON ELECTRICAL DEMOLITION DRAWINGS ARE NOT INTENDED TO SHOW COMPLETE DEMOLITION REQUIREMENTS OR ALL ITEMS TO BE DEMOLISHED BUT IS INTENDED TO SHOW MAJOR COMPONENTS ONLY. THE ELECTRICAL DEMOLITION WORK SHALL BE COMPLETE IN ALL DETAILS AND REQUIREMENTS AND READY FOR THE INSTALLATION OF NEW SYSTEMS AND EQUIPMENT.
- UNLESS OTHERWISE INDICATED, ALL LOW VOLTAGE WIRING NOT REQUIRED TO REMAIN SERVING VOICE, DATA, COMMUNICATIONS, AND SECURITY SHALL BE REMOVED COMPLETE. VERIFY THE USAGE OF LOW VOLTAGE WIRING WITH THE DISTRICT TECHNOLOGY OFFICER PRIOR TO DEMOLITION. DO NOT REMOVE EXISTING ACTIVE CABLING OR CABLING REQUIRED TO REMAIN.
- WHEN REMOVING AN ENCLOSURE, DEVICE, LIGHT FIXTURE, ETC. WIRING NOT REQUIRED SHALL BE REMOVED COMPLETE. NO UNUSED WIRING SHALL REMAIN. INCLUDE FIELD INVESTIGATIONS AND WIRE TRACING IN ORDER TO DETERMINE THE USE AND FUNCTION OF ALL EXISTING WIRING.
- ALL CONDUIT SHALL BE REMOVED COMPLETE EXCEPT THAT CONDUIT WHICH IS CONCEALED WITHIN EXISTING BUILDING CONSTRUCTION MAY BE ABANDONED IN PLACE ONCE WIRING IS REMOVED.
- REMOVED EQUIPMENT, CONDUIT, WIRE, RECEPTACLES, TOGGLE SWITCHES, LIGHTING FIXTURES, ETC., SHALL NOT BE REUSED UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND HE/SHE SHALL REMOVE SAME FROM THE PREMISES. REMOVED EQUIPMENT AND MATERIALS SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL ENVIRONMENTAL REQUIREMENTS.
- 10 ALL WALL PENETRATIONS, CONDUITS OR CONDUIT SLEEVES NO LONGER REQUIRED, REGARDLESS OF THE SYSTEM SERVED, SHALL BE REMOVED COMPLETE WITH THE PENETRATION PATCHED TO MAINTAIN THE ORIGINAL FIRE RATING OR CONSTRUCTION OF THE WALL.

#### **DEMOLITION KEY NOTES:**

1) RELOCATE. SEE NEW WORK PLANS FOR REVISED LOCATION.

(2) REMOVE RECEPTACLE AND CONDUIT TO CEILING. BRANCH CIRCUIT TO BE REUSED TO SERVE NEW RECEPTACLE. SEE NEW WORK PLAN.



TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD **BLOOMFIELD HILLS · MICHIGAN · 48302** 

PH · 248.338.4561 FX · 248.338.0223

EM · INFO OTMP-ARCHITECTURE.COM

**REGISTRATION SEAL** 

CONSULTANT

BERBIGLIA ASSOCIATES INC.

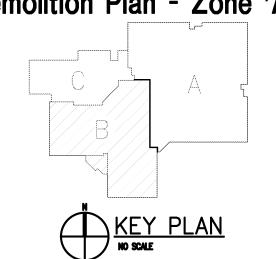
36400 West Twelve Mile Road Farmington Hills, Michigan 48331 (248) 489-3100 • FAX (248) 489-3161 BAI No. 15-1606

PROJECT TITLE Bingham Farms Elementary School Remodeling

Birmingham Public Schools Bloomfield Hills,, Michigan

DRAWING TITLE

First Level Electrical Demolition Plan - Zone 'A'



**ISSUE DATES** 

02-15-2016 B.P.No. 1 - BIDS

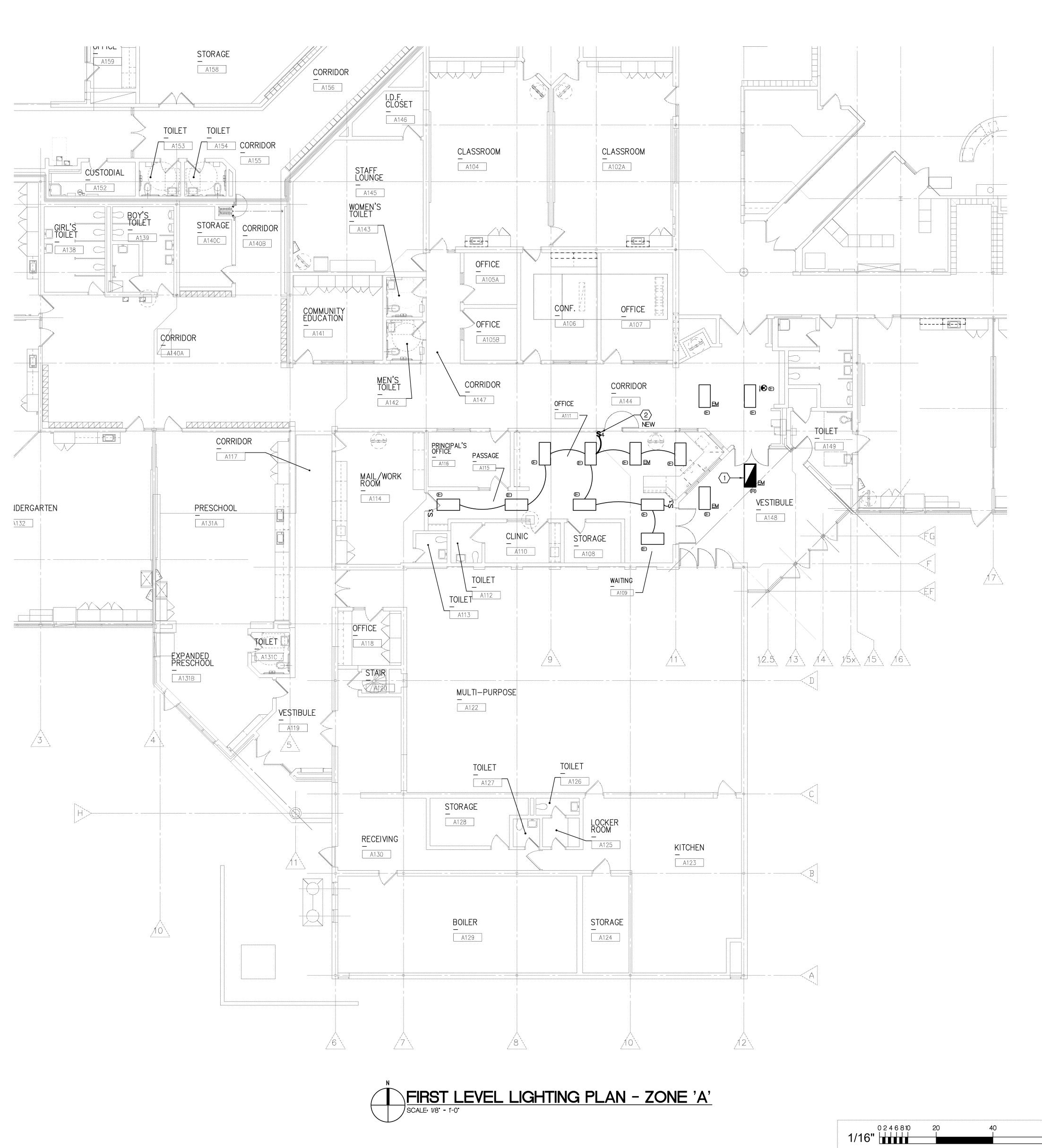
PROJECT NO. 15098

DRAWING NO.

**E0.1A** 

FIRST LEVEL KEY PLAN

0246810 WHEN USING THIS DRAWING - PLOT OR PRINT FULL SIZE TO ENSURE CORRECT SCALE. NOTE REDUCED SIZE DRAWINGS ARE NOT TO SCALE



LIGHTING GENERAL NOTES:

- REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
- ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND IN ACCORDANCE WITH NEC AND LOCAL REQUIREMENTS.
- ALL LIGHTING TO REMAIN, SERVED ON A CIRCUIT DOWNSTREAM OF LIGHTING OR DEVICES BEING DEMOLISHED OR REVISED SHALL REMAIN OPERATIONAL. PROVIDE ALL BRANCH CIRCUIT WIRING REVISIONS AS REQUIRED TO MAINTAIN OPERATION OF LIGHTING, NOT INTENDED TO BE REVISED.
- CONTRACTOR SHALL FIELD VERIFY EXACT MOUNTING REQUIREMENTS FOR ALL EXIT LIGHTS PRIOR TO ORDERING.
- ALL CONDUIT AND WIRING SHALL BE CONCEALED IN ALL FINISHED AREAS.
- ALL JUNCTION BOXES SERVING BRANCH CIRCUIT WIRING SHALL BE LABELED

WITH CIRCUITS BEING SERVED. USE INDELIBLE MARKER ON BOX COVER.

CIRCUIT NUMBERS INDICATED ON PLAN DO NOT INDICATE ACTUAL CIRCUIT

## BREAKER POLE POSITION IN PANEL, BUT REPRESENT ITEMS GROUPED ON SAME

#### LIGHTING KEY NOTES:

- RELOCATED LIGHTING FIXTURE PREVIOUSLY ON EMERGENCY CIRCUIT, RESERVE FROM THE SAME CIRCUIT.
- PROVIDE ALL LIGHT BRANCH CIRCUIT WIRING REVISIONS REQUIRED FOR SWITCHING REVISIONS INDICATED.



TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS · MICHIGAN · 48302 PH · 248.338.4561 FX · 248.338.0223

EM · INFO OTMP-ARCHITECTURE.COM

**REGISTRATION SEAL** 

CONSULTANT

BERBIGLIA ASSOCIATES INC.

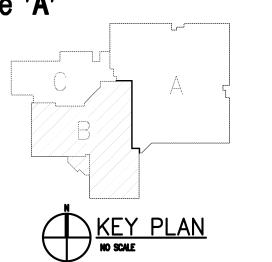
36400 West Twelve Mile Road Farmington Hills, Michigan 48331 (248) 489-3100 • FAX (248) 489-3161 BAI No. 15-1606

PROJECT TITLE Bingham Farms Elementary School Remodeling

Birmingham Public Schools Bloomfield Hills,, Michigan

DRAWING TITLE

First Level Lighting Plan -Zone 'A'



**ISSUE DATES** 

02-15-2016 B.P.No. 1 - BIDS

PROJECT NO. 15098

DRAWING NO.

**E1.1A** 

WHEN USING THIS DRAWING - PLOT OR PRINT FULL SIZE TO ENSURE CORRECT SCALE. NOTE REDUCED SIZE DRAWINGS ARE NOT TO SCALE

FIRST LEVEL KEY PLAN

AREA OF RENOVATION -

#### POWER AND SYSTEMS SPECIAL KEY NOTES:

- ACCESS CONTROLLED DOOR WITH ELECTRIC LOCK AND DOOR POSITION SWITCH OR INDICATOR FURNISHED AND INSTALLED BY DOOR CONTRACTOR, WIRED BY ELECTRICAL TRADES. REFER TO DOOR HARDWARE SPECIFICATIONS AND EQUIPMENT SHOP DRAWINGS.
- IP BASED SECURITY CAMERA, FURNISHED, INSTALLED, AND WIRED BY THE DISTRICTS VIDEO SECURITY VENDOR. FIELD VERIFY EXACT CAMERA MOUNTING LOCATION WITH THE DISTRICTS SECURITY OFFICER PRIOR TO ROUGH-IN. LEAVE A PULL WIRE IN THE EMPTY CONDUIT. STUB THE CONDUIT TO AN ACCESSIBLE CEILING SPACE LOCATION ONLY.
- MOTORIZED DOOR OPERATOR, 120 VOLT, FURNISHED AND INSTALLED BY DOOR CONTRACTOR, WIRED BY ELECTRICAL TRADES. PROVIDE LOCAL 120 VOLT DISCONNECT SWITCH AS REQUIRED FOR CODE CONFORMANCE, PROVIDE INSTALLATION AND WIRING OF PUSHBUTTON STATIONS. ALL WIRING TO BE IN ACCORDANCE WITH EQUIPMENT SHOP DRAWINGS. INTERFACE WIRING AND OPERATION WITH CARD ACCESS SYSTEM SO THAT DOOR OPERATOR DOES NOT OPERATE EXCEPT WHEN ACCESS IS APPROVED BY CARD ACCESS SYSTEM.
- EXISTING ACCESS CONTROLLED DOOR, DOOR, POSITION SWITCH, ELECTRIC LOCK, VRINX DOOR CONTROL MODULE, ETC. TO REMAIN.
- DOOR LOCK DOWN PUSH BUTTON, FURNISHED, INSTALLED AND WIRED BY THE ACCESS CONTROL CONTRACTOR. FIELD COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECTURAL TRADES AND DISTRICT STAFF PRIOR TO INSTALLATION.
- VANDERBILT INDUSTRIES #VRINX DOOR CONTROL MODULE IN NEMA ONE ENCLOSURE FURNISHED, INSTALLED, AND WIRED BY ACCESS CONTROL CONTRACTOR. CONCEAL IN CEILING SPACE WHERE FEASIBLE. PROVIDE POWER SUPPLY TO SERVE ONE OR MORE MODULES. INCLUDE ALL 120 VOLT WIRING FOR POWER SUPPLIES.
- PROXIMITY READER, FURNISHED, INSTALLED, AND WIRED BY ACCESS CONTROL CONTRACTOR.
- PROXIMITY READER CONTROLLED DOOR.
- PROXIMITY READER WITH INTEGRAL KEYPAD, FURNISHED, INSTALLED, AND WIRED BY ACCESS CONTROL CONTRACTOR.
- PROXIMITY READER/KEYPAD CONTROLLED DOOR.

#### POWER AND SYSTEMS KEY NOTES:

- HOMERUN TO ACP, SEE ACCESS CONTROL DIAGRAMS SHEETS E3.1 AND E3.2.
- (2) 120 VOLT CIRCUIT, TO NEW OR SPARE 20A-1P. CIRCUIT BREAKER IN NEAREST AVAILABLE NON-TECHNOLOGY RECEPTACLE PANEL. FIELD VERIFY EXISTING CONDITIONS. TWO (2) DOOR OPERATORS MAY BE SERVED WITH ONE 20A CIRCUIT.
- (3) 120-VOLT CIRCUIT, TO NEW OR SPARE 20A-1P. CIRCUIT BREAKER IN NEAREST AVAILABLE TECHNOLOGY RECEPTACLE PANEL. FIELD VERIFY EXISTING
- FLUSH CEILING MOUNTED JUNCTION BOX AND CONCEALED 0.75" CONDUIT. STUB CONDUIT INTO ACCESSIBLE CEILING SPACE, BUSH END OF CONDUIT AND PROVIDE

#### POWER AND SYSTEMS GENERAL NOTES:

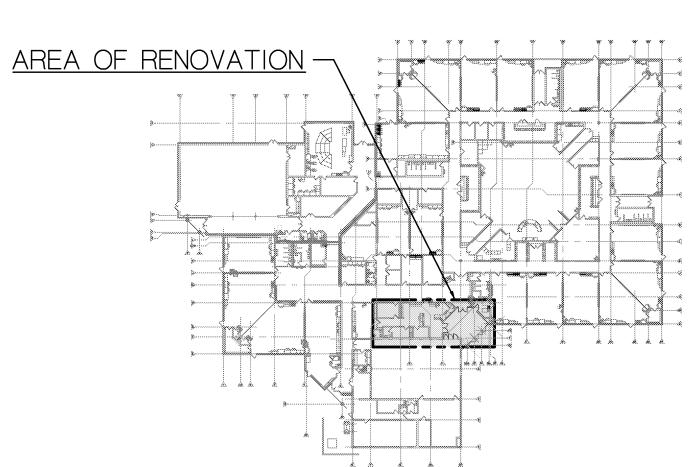
- REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- THE DISTRICT UTILIZES A VISITOR NOTIFICATION SYSTEM (VNS). THE VNS UTILIZES A NUMBER OF INTEGRATED BUILDING SYSTEMS INCLUDING CARD ACCESS, VIDEO SECURITY, TELEPHONE/INTERCOM, LOCK DOWN, ETC.
- ALL CARD ACCESS REVISIONS SHALL BE PERFORMED BY A CARD ACCESS SYSTEM CONTRACTOR WHO SHALL BE A SUBCONTRACTOR
- TO THE ELECTRICAL CONTRACTOR. REFER TO SPECIFICATIONS FOR A LIST OF ACCEPTABLE SUBCONTRACTORS.
- ALL CARD ACCESS SYSTEM REVISIONS SHALL BE COORDINATED WITH DOOR HARDWARE REVISIONS AND ARCHITECTURAL TRADES. WIRING, CONNECTIONS AND REVISIONS FOR ALL DOOR HARDWARE COMPONENTS AND DEVICES SHALL BE IN ACCORDANCE WITH THE

MANUFACTURES RECOMMENDATIONS, WIRING DIAGRAMS AND INSTALLATION INSTRUCTIONS AND THE EQUIPMENT SHOP DRAWINGS.

- ALL CARD ACCESS AND/OR VNS SYSTEM REVISIONS SHALL BE TESTED FOR PROPER OPERATION.
- REFER TO CARD ACCESS/VNS SYSTEM WIRING DIAGRAMS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL CONDUIT AND WIRING SHALL BE CONCEALED IN ALL FINISHED AREAS. WHERE CONCEALING CONDUIT IS NOT FEASIBLE, A FINISHED SURFACE RACEWAY (WIREMOLD OR EQUAL) MAYBE USED. WHERE A FINISHED SURFACE WIREWAY IS USED, SURFACE MOUNTED JUNCTION BOXES SHALL ALSO BE A FINISHED SURFACE BOX (WIREMOLD OR EQUAL). REFER TO SPECIFICATIONS FOR COMPLETE
- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION OF ALL RECEPTACLES AND OUTLETS ABOVE OR BELOW COUNTERS. REFER TO ARCHITECTURAL DRAWINGS, ELEVATIONS AND DETAILS FOR LOCATIONS AND MOUNTING HEIGHTS OF VARIOUS ELECTRICAL RECEPTACLES, OUTLETS AND DEVICES.
- COORDINATE THE EXACT ROUGH-IN LOCATION OF JUNCTION BOXES OR, RECEPTACLES OR OUTLETS, REQUIRED TO SERVE EQUIPMENT BENEATH COUNTERS.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE SCOPE OF CEILING SYSTEM REVISIONS INCLUDING CEILINGS BEING REPLACED, RAISED OR LOWERED. INCLUDE ALL ELECTRICAL WORK REQUIRED TO ACCOMMODATE CEILING SYSTEM REVISIONS INCLUDING RE-SUPPORTING OR RELOCATING CONDUIT, BOXES, WIRING, ETC. REQUIRED TO REMAIN, AS REQUIRED FOR CODE CONFORMANCE. INCLUDE ALL CONDUIT BOX AND WIRING REVISIONS REQUIRED AND COORDINATE ALL WORK WITH ARCHITECTURAL TRADES.
- MAINTAIN SERVICE TO ALL LOADS NOT INTENDED TO BE REVISED, INTERRUPTED OR DEMOLISHED, PROVIDE ALL CONDUIT, BOX AND WIRING REVISIONS REQUIRED TO ACCOMPLISH SAME AND INCLUDE ALL COSTS IN THE ELECTRICAL BID.
- MODIFY EXISTING PANELBOARD CIRCUIT BREAKERS AS REQUIRED TO ACCOMMODATE CIRCUITING REQUIREMENTS INDICATED ON PLAN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.
- LABEL ALL RECEPTACLES, JUNCTION BOXES, DOOR POWER SUPPLIES, ETC. WITH THE PANEL AND CIRCUIT FROM WHICH THEY ARE SERVED. UTILIZE 0.1256 HIGH BLACK LETTERS ON A CLEAR BACKGROUND LOCATED ON THE RECEPTACLE OR JUNCTION BOX COVERPLATE. WHERE RECEPTACLE IS SERVED WITH GENERATOR POWER, UTILIZE RED LETTERS. IN ADDITION, NEATLY WRITE WITH AN INDELIBLE MARKER THE PANEL AND CIRCUIT ON THE INSIDE OF THE RECEPTACLE OR JUNCTION BOX COVERPLATE.
- USING AN INDELIBLE MARKER, NEATLY LABEL BY HAND, IN ALL UNFINISHED AREAS, JUNCTION BOXES TO INDICATE THE PANEL AND CIRCUIT(S) WHICH THE BOX SERVES.
- PROVIDE ACCURATE TYPED DIRECTORIES IN ALL PANELBOARDS. TRACE EXISTING CIRCUITS AS REQUIRED TO DETERMINE LOADS SERVED FROM EXISTING CIRCUIT BREAKERS AND COMPLETE PANELBOARD DIRECTORIES ACCORDINGLY.
- ALL 120 VOLT BRANCH CIRCUITS SHALL BE 2\*12 + 1\*12 GROUND 3/4" C SERVED FROM A 20 AMP SINGLE POLE CIRCUIT BREAKER UNLESS OTHERWISE REQUIRED.
- 18 ALL 120 VOLT CIRCUITS GREATER THAN 90 FEET FROM CIRCUIT BREAKER TO LAST LOAD ON CIRCUIT SHALL BE WITH #10 AWG WIRE.
- 19 REFER TO MECHANICAL HVAC AND PLUMBING DRAWINGS FOR MECHANICAL EQUIPMENT REQUIREMENTS. INCLUDE ALL WORK REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT REVISIONS. COORDINATE ALL WORK WITH MECHANICAL TRADES AND INCLUDE ALL COSTS IN THE ELECTRICAL BID AS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT REVISIONS.
- 20 ALL 120-VOLT BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.
- 21 ALL CONDUIT SERVING WIRING 120 VOLTS OR GREATER SHALL HAVE A GROUND WIRE.
- PROVIDE ACCURATE TYPED DIRECTORIES IN ALL PANELBOARDS.

WHERE INSTALLED IN A DOOR OR WINDOW FRAME MULLION

- BRANCH CIRCUIT WIRING SHALL BE IN STRICT ACCORDANCE WITH NEC ARTICLE 310 AND TABLE 310.15 ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A RACEWAY. INSTALL A MAXIMUM OF THREE CIRCUITS IN A SINGLE CONDUIT. DERATE THE AMPACITY PER THE NEC WHERE THE NUMBER OF CONDUCTORS EXCEEDS THREE.
- AS-BUILT DRAWINGS SHALL INDICATE ACTUAL CIRCUITING FOR ALL PROJECT PANELS.
- ALL VOICE AND DATA CABLING WILL BE FURNISHED AND INSTALLED BY THE DISTRICTS TECHNOLOGY CONTRACTOR.
- 26 ALL CAMERA CABLING WILL BE FURNISHED AND INSTALLED BY THE DISTRICTS TECHNOLOGY CONTRACTOR.
- PROVIDE A PULL WIRE IN ALL EMPTY CONDUIT.
- ALL CONDUIT INSTALLED TO SERVE VOICE OR DATA CABLING SHALL HAVE A BUSHED END STUBBED TO AN ACCESSIBLE CEILING
- ALL CONDUIT SERVING THE CARD ACCESS SYSTEM SHALL BE CONCEALED WITHIN BUILDING CONSTRUCTION, UTILIZE A FINISHED SURFACE RACEWAY SUCH AS WIREMOLD WHERE CONCEALING CONDUIT IS NOT FEASIBLE AS A RESULT OF EXISTING MASONRY CONSTRUCTION. IN EXISTING DRYWALL CONSTRUCTION, CONCEAL THE CONDUIT.
- ALL LOW VOLTAGE CARD ACCESS SYSTEM. FIRE ALARM SYSTEM WIRING, AND OTHER INSTALLED BY THIS CONTRACTOR SHALL BE INSTALLED IN CONDUIT OR A FINISHED SURFACE RACEWAY EXCEPT AS FOLLOWS: WHERE INSTALLED ABOVE AN ACCESSIBLE LAY-IN CEILING.
- LOW VOLTAGE CABLING SHALL BE INSTALLED AS FOLLOWS OR WHERE THE RACEWAY ONLY IS INSTALLED BY THE ELECTRICAL CONTRACTOR, RACEWAY SHALL BE INSTALLED TO PERMIT CABLING TO BE INSTALLED AS FOLLOWS:
- A. NOT INSTALLED WITHIN 18 INCHES OF LIGHT FIXTURE BALLASTS OR WITHIN 36 INCHES OF MOTORS OR TRANSFORMERS. B. IN ACCORDANCE WITH MAXIMUM BENDING RADIUS AS RECOMMENDED BY THE MANUFACTURER. C. INSTALLED PERPENDICULAR TO POWER CONDUIT RUNS UPON THEIR INTERSECTION WHEREVER POSSIBLE.
- WHEN TRANSITIONING FROM CONDUIT TO NO CONDUIT, UTILIZE A BUSHING ON THE END OF THE CONDUIT.
- ALL JUNCTION BOXES PROVIDED TO SERVE FIRE ALARM PULL STATIONS, A READER, DOOR OPERATOR PUSHBUTTON, ETC., SHALL BE APPROVED BY THE MANUFACTURER TO SERVE THAT DEVICE AND FOR THE INTENDED PURPOSE. SURFACE BOXES SHALL BE FINISHED, SMOOTH EDGED AND WITHOUT SHARP EDGES. BOX FINISH SHALL MATCH THE CONNECTED RACEWAY. BOXES SERVING FIRE ALARM PULL STATIONS SHALL BE RED.
- INCLUDE ALL CONDUIT SLEEVES THROUGH WALLS AS REQUIRED FOR THE ROUTING OF LOW VOLTAGE CABLING INCLUDING CABLING INSTALLED BY THE DISTRICT. SLEEVES INSTALLED IN EXISTING WALLS SHALL UTILIZE A NEAT HOLE MADE WITH A CORING MACHINE OR HOLE SAW. CORING IN MASONRY SURFACES SHALL BE CONTINUOUS FROM ONE WALL SURFACE TO THE APPOSING WALL SURFACE WITHOUT SPALLING. NO CONDUIT LESS THAN 1' SHALL BE USED FOR SLEEVES.
- FIRE PROOF INSIDE AND OUT ALL CONDUIT SLEEVES.
- LOW VOLTAGE CABLING SHALL BE INSTALLED AS REQUIRED FOR CONFORMANCE WITH THE CABLING RECOMMENDATIONS OF THE CABLE MANUFACTURER. OBTAIN SAME FROM THE MANUFACTURER.
- FIRE ALARM SYSTEM EQUIPMENT, DEVICES AND REVISIONS SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS.
- 38 THE EXISTING FIRE ALARM SYSTEM IS A NATIONAL TIME AND SIGNAL 902 SERIES ADDRESSABLE SYSTEM.
- 39 ALL FIRE ALARM SYSTEM DEVICES SHALL BE NATIONAL TIME AND SIGNAL, LATEST PRODUCT, COMPATIBLE WITH THE EXISTING SYSTEM. WHERE FIRE ALARM SYSTEM REVISIONS ARE MADE, UPDATE THE GRAPHIC ANNUNCIATOR TO REFLECT THE REVISION.
- FIRE ALARM SYSTEM TESTING SHALL INCLUDE THE PERCENTAGE OF EXISTING SYSTEM-UNALTERED DEVICES, WIRING AND EQUIPMENT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.



FIRST LEVEL KEY PLAN

1/16" WHEN USING THIS DRAWING - PLOT OR PRINT FULL SIZE TO ENSURE CORRECT SCALE. NOTE REDUCED SIZE DRAWINGS ARE NOT TO SCALE ARCHITECTURE

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS · MICHIGAN · 48302

PH · 248.338.4561 FX · 248.338.0223

EM · INFO • TMP-ARCHITECTURE.COM

**REGISTRATION SEAL** 

CONSULTANT



CONSULTING ENGINEERS

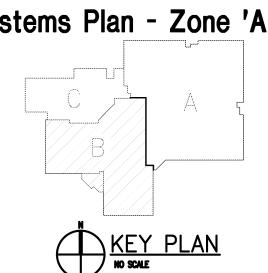
36400 West Twelve Mile Road Farmington Hills, Michigan 48331 (248) 489−3100 • FAX (248) 489−3161 BAI No. 15-1606

PROJECT TITLE Bingham Farms Elementary School Remodeling

Birmingham Public Schools Bloomfield Hills,, Michigan

DRAWING TITLE

First Level Power and Systems Plan - Zone 'A'



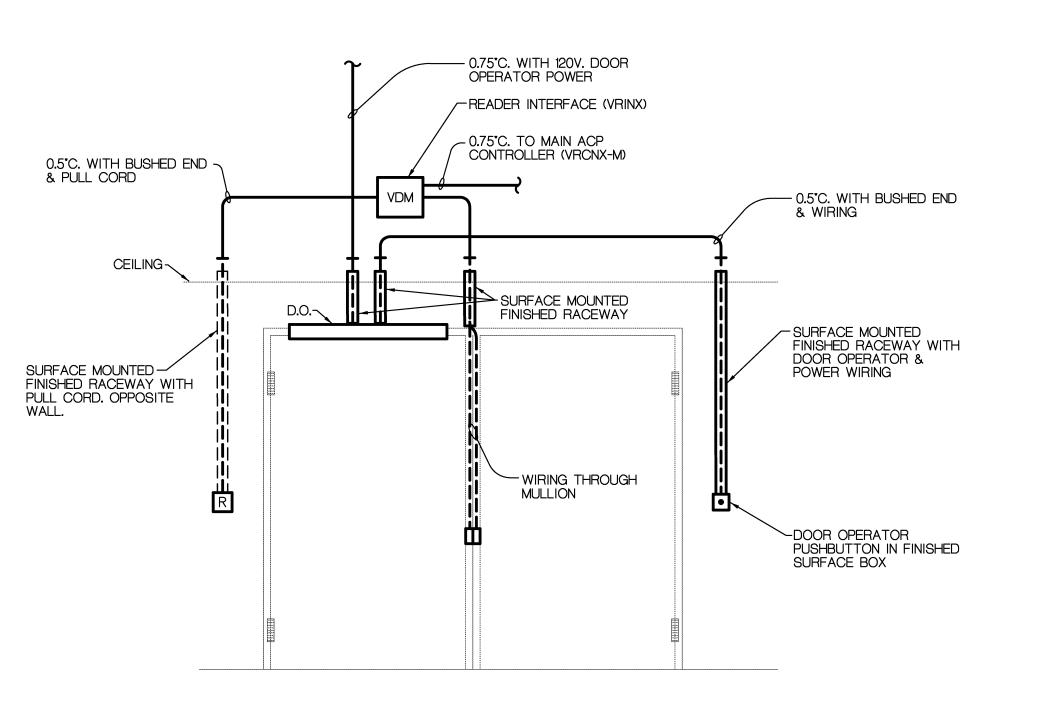
**ISSUE DATES** 

02-15-2016 B.P.No. 1 - BIDS

PROJECT NO. 15098

DRAWING NO.

**E2.1A** 



CONDUIT WITH DOOR POWER - SURFACE CONDUIT WITH ELECTRIC CEILING~ STRIKE & WIRING TO READER INTERFACE (VRINX) `- D.O. SURFACE MOUNTED -CONDUIT WITH DOOR OPERATOR WIRING DOOR OPERATOR-(E) E.S.**[]**E.S. PUSHBUTTON IN FINISHED SURFACE BOX

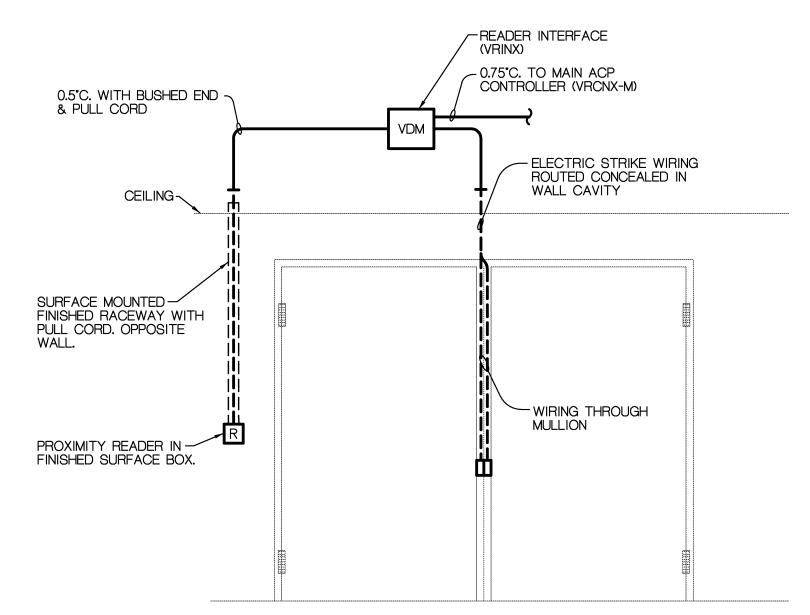
## DOOR DIAGRAM

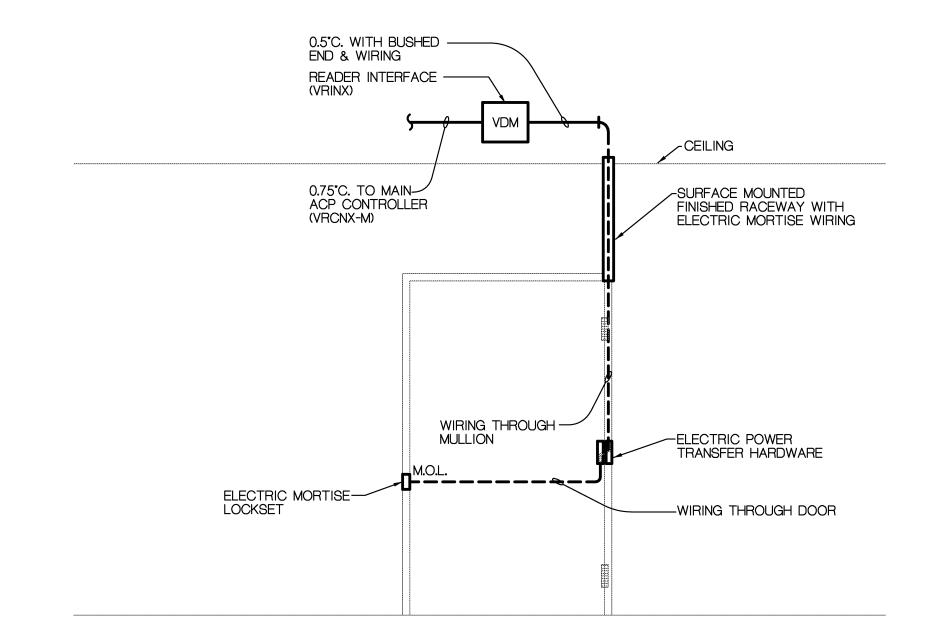
1. SEE DOOR WIRING DIAGRAM SHEET E3.2. 2. SEE FLOOR PLAN FOR ALL OPERATORS. 3. DOORS A144A, A144B

## DOOR DIAGRAM

NO SCALE

SEE DOOR WIRING DIAGRAM SHEET E3.2. . SEE FLOOR PLAN FOR ALL OPERATORS. 3. DOORS A133A, A133B, A133C, A133D





E2.1A

### DOOR DIAGRAM

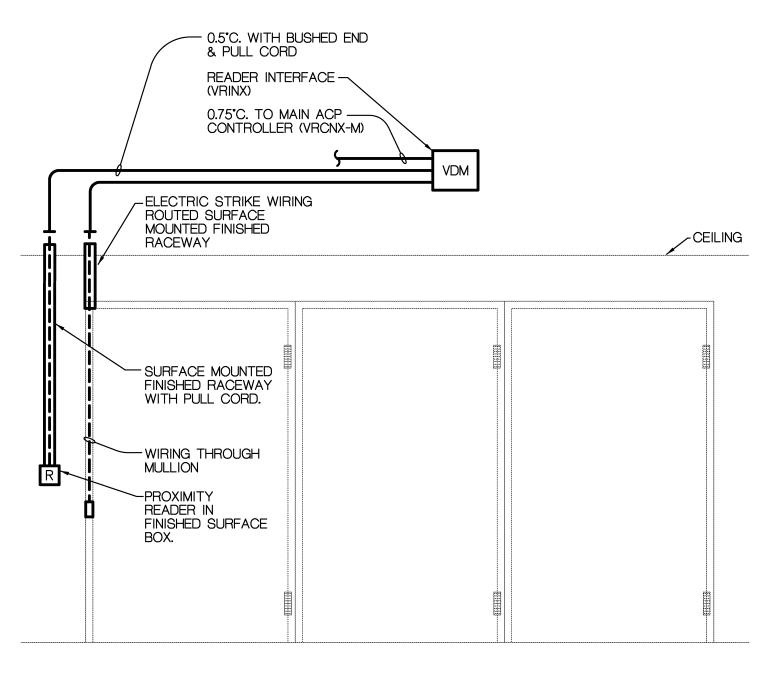
E2.1A NO SCALE SEE DOOR WIRING DIAGRAM SHEET E3.2. SEE FLOOR PLAN FOR ALL OPERATORS. 3. DOORS B109A, B109B



SEE DOOR WIRING DIAGRAM SHEET E3.2. 2. SEE FLOOR PLAN FOR ALL OPERATORS. 3. DOOR B111

READER INTERFACE

0.5°C WITH BUSHED END & -



# DOOR DIAGRAM

NOTES:

1. SEE DOOR WIRING DIAGRAM SHEET E3.2. SEE FLOOR PLAN FOR ALL OPERATORS. 3. DOORS B122C, B122D, B122E



# CEILING-\ -0.75°C. TO MAIN ACP CONTROLLER (VRCNX-M) SURFACE MOUNTED FINISHED RACEWAY WITH ELECTRIC STRIKE WIRING - WIRING THROUGH MULLION

## DOOR DIAGRAM

E E2.1A NOTES:

1. SEE DOOR WIRING DIAGRAM SHEET E3.2. 2. SEE FLOOR PLAN FOR ALL OPERATORS. 3. DOOR B116B, B114A

#### CARD ACCESS/VNS SYSTEM GENERAL NOTES:

SEE CARD ACCESS/VNS LEGEND SHEET E3.2

SURFACE MOUNTED

- REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS. REFER TO POWER AND SYSTEM GENERAL NOTES FOR ADDITIONAL
- REQUIREMENTS.
- THE DISTRICT UTILIZES A VISITOR NOTIFICATION SYSTEM (VNS). THE VNS UTILIZES A NUMBER OF INTEGRATED BUILDING SYSTEMS INCLUDING CARD ACCESS, VIDEO SECURITY, TELEPHONE/INTERCOM, LOCK DOWN, ETC.
- ALL CARD ACCESS REVISIONS SHALL BE PERFORMED BY A CARD ACCESS SYSTEM CONTRACTOR WHO SHALL BE A SUBCONTRACTOR TO THE ELECTRICAL CONTRACTOR. REFER TO SPECIFICATIONS FOR A LIST OF ACCEPTABLE SUBCONTRACTORS.
  - ALL CARD ACCESS SYSTEM REVISIONS SHALL BE COORDINATED WITH DOOR HARDWARE REVISIONS AND ARCHITECTURAL TRADES.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR THE SEQUENCE OF OPERATION AT EACH DOOR AND A DESCRIPTION OF THE INTENDED DOOR CONTROL SECURITY.
- THE EXACT LOCATION OF ALL READERS, OPERATORS, PUSHBUTTONS, ETC. SHALL BE COORDINATED WITH AND APPROVED BY ARCHITECTURAL TRADES
- AND DISTRICT STAFF PRIOR TO ROUGH-IN. ALL READERS, OPERATORS, PUSHBUTTONS, ETC. SHALL BE LOCATED AT 488
- WIRING, CONNECTIONS AND REVISIONS FOR ALL DOOR HARDWARE COMPONENTS AND DEVICES SHALL BE IN ACCORDANCE WITH THE MANUFACTURES RECOMMENDATIONS, WIRING DIAGRAMS AND INSTALLATION INSTRUCTIONS AND THE EQUIPMENT SHOP DRAWINGS. INSTALLER SHALL

AFF UNLESS OTHERWISE NOTED OR INDICATED.

OBTAIN SAME PRIOR TO INSTALLATION.

NAMEPLATE RATING.

- 10 ALL CARD ACCESS AND/OR VNS SYSTEM REVISIONS SHALL BE TESTED FOR
- EXISTING DOOR POWER SUPPLIES MAY BE USED TO SERVE NEW LOAD PROVIDED THE POWER SUPPLY IS NOT LOADED MORE THAN 75% OF IT
- 12 LABEL ALL DOOR POWER SUPPLIES WITH THE PANEL AND CIRCUIT FROM WHICH THEY ARE SERVED. USE AN INDELIBLE MARKER, NEATLY LABEL BY HAND ON THE INSIDE OF THE POWER SUPPLY ENCLOSURE.
- 13 SUBMIT SHOP DRAWINGS ON ALL CARD ACCESS SYSTEM EQUIPMENT AND COMPONENTS. INCLUDE WITH SHOP DRAWINGS THE RATING AND LOADING OF ALL NEW POWER SUPPLIES.
- 14 ALL POWER SUPPLY LOADING SHALL BE BASED ON DOOR HARDWARE SHOP
- 15 ALL POWER SUPPLIES SHALL BE LABELED WITH THE PANEL AND CIRCUIT FROM WHICH IT IS SERVED.
- 16 PROVIDE NEW 120 VOLT BRANCH CIRCUIT WIRING TO SERVE ALL NEW DOOR POWER SUPPLIES. EXISTING 120 VOLT CIRCUITS SERVING EXISTING POWER SUPPLIES MAY BE USED TO SERVE NEW POWER SUPPLIES PROVIDED THE EXISTING 120 VOLT CIRCUIT IS NOT LOADED GREATER THAN 14 AMPS.
- ALL NEW 120 VOLT CIRCUITS SERVING DOOR POWER SUPPLIES SHALL ORIGINATE FROM THE CIRCUIT BREAKER PANEL CURRENTLY SERVING POWER SUPPLIES IN THE AREA. TYPICALLY THIS WILL BE A PANELBOARD PROVIDED WITH TRANSIENT VOLTAGE SURGE SUPPRESSION AND SERVED FROM THE GENERATOR. ALL CARD ACCESS SYSTEM POWER MUST BE SERVED FROM A GENERATOR POWERED PANEL.
- 18 CARD ACCESS SYSTEM DETAILS AND DIAGRAMS ARE PROVIDED TO CONVEY THE SYSTEM OPERATION AND DESIGN INTENT. DETAILS AND DIAGRAMS ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE OR TO REFLECT THE FINAL INSTALLATION REQUIREMENTS OR COMPLETE EXISTING CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING CEILING CONSTRUCTION, WALL CONSTRUCTION, ARCHITECTURAL CONDITIONS, ETC. AND ADJUST DETAILS AND DIAGRAMS ACCORDINGLY. PROVIDE ALL ADDITIONAL OR MODIFY EXISTING AS REQUIRED, RACEWAYS, WIRING, DEVICES, BOXES, CONNECTIONS, C. AND INCLUDE ALL COSTS FOR SAME. INCLUDE ALL PROGRAMMING, DIP SWITCH SETTINGS, ETC. AS REQUIRED FOR THE INTENDED SECURITY OPERATION AND INCLUDE ALL COSTS FOR SAME. BIDDER SHALL BE RESPONSIBLE FOR ANY ADDITIONAL ENGINEERING OR DESIGN REQUIRED, AND SHALL INCLUDE ALL COSTS FOR SAME AS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS IN ACCORDANCE WITH THE DESIGN INTENT. IN BIDDING THIS PROJECT, BIDDER ACKNOWLEDGES THAT NO ADDITIONAL COSTS WILL BE APPROVED DURING CONSTRUCTION UNLESS A CHANGE IN SCOPE IS REQUESTED BY THE DISTRICT.
- PROVIDE COMPLETE SYSTEM AS BUILT DRAWINGS REFLECTING THE SYSTEM INSTALLATION.

#### CARD ACCESS/VNS SYSTEM RACEWAYS AND WIRING NOTES:

- REFER TO POWER AND SYSTEM GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
- REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- CONDUITS, BOXES, RACEWAYS, ETC. SHALL BE SUBJECT TO THE REQUIREMENTS OF THE SPECIFICATIONS.
- WIRING, CONNECTIONS AND REVISIONS FOR ALL DOOR HARDWARE COMPONENTS AND DEVICES SHALL BE IN ACCORDANCE WITH THE MANUFACTURES RECOMMENDATIONS, WIRING DIAGRAMS AND INSTALLATION INSTRUCTIONS AND THE EQUIPMENT SHOP DRAWINGS.
- ONE VRINX DOOR MODULE ONBOARD RELAY SHALL SERVE A MAXIMUM OF 0.7 AMPS. RELAYS ARE RATED 1 AMP AT 30 VDC. PROVIDE ADDITIONAL RELAY
- WHERE REQUIRED TO SERVE MORE THAN 0.7 AMPS. ALL CARD ACCESS AND/OR VNS SYSTEM REVISIONS SHALL BE TESTED FOR PROPER OPERATION.
- ALL WIRING SERVING THE CARD ACCESS SYSTEM SHALL BE PLENUM RATED.
- THE COLOR CODING OF ALL WIRING SERVING THE CARD ACCESS SYSTEM SHALL BE THE SAME THROUGHOUT AND SHALL MATCH EXISTING.
- ALL CONDUIT SERVING THE CARD ACCESS SYSTEM SHALL BE CONCEALED WITHIN BUILDING CONSTRUCTION. UTILIZE A FINISHED SURFACE RACEWAY SUCH AS WIREMOLD WHERE CONCEALING CONDUIT IS NOT FEASIBLE AS A RESULT OF EXISTING MASONRY CONSTRUCTION. IN EXISTING DRYWALL CONSTRUCTION, CONCEAL THE CONDUIT.
- 10 ALL CARD ACCESS SYSTEM LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT OR A FINISHED SURFACE RACEWAY EXCEPT AS FOLLOWS. WHERE INSTALLED ABOVE AN ACCESSIBLE LAY-IN CEILING. WHERE INSTALLED IN A DOOR OR WINDOW FRAME MULLION
- LOW VOLTAGE WIRING INSTALLED ABOVE A LAY-IN ACCESSIBLE CEILING AND NOT IN CONDUIT, SHALL BE SUPPORTED ON J-HOOKS INSTALLED AT MAXIMUM 4 FOOT ON CENTERS. EXISTING J-HOOKS MAYBE USED FOR NEW WIRING.
- 12 WHEN TRANSITIONING FROM CONDUIT TO NO CONDUIT, UTILIZE A BUSHING ON THE END OF THE CONDUIT.
- 13 ALL JUNCTION BOXES PROVIDED TO SERVE A READER, DOOR OPERATOR PUSHBUTTON, ETC., SHALL BE APPROVED BY THE MANUFACTURER TO SERVE THAT DEVICE AND FOR THE INTENDED PURPOSE. SURFACE BOXES SHALL BE FINISHED, SMOOTH EDGED AND WITHOUT SHARP EDGES. BOX FINISH SHALL MATCH THE CONNECTED RACEWAY.
- 14 INCLUDE ALL CONDUIT SLEEVES THROUGH WALLS AS REQUIRED FOR THE ROUTING OF LOW VOLTAGE CABLING. SLEEVES INSTALLED IN EXISTING WALLS SHALL UTILIZE A NEAT HOLE MADE WITH A CORING MACHINE OR HOLE SAW. CORING IN MASONRY SURFACES SHALL BE CONTINUOUS FROM ONE WALL SURFACE TO THE APPOSING WALL SURFACE WITHOUT SPALLING. NO CONDUIT LESS THAN 10 SHALL BE USED FOR SLEEVES.
- 15 FIRE PROOF INSIDE AND OUT ALL CONDUIT SLEEVES.
- 16 LOW VOLTAGE CABLING SHALL BE INSTALLED AS REQUIRED FOR CONFORMANCE WITH THE CABLING RECOMMENDATIONS OF THE CABLE MANUFACTURER. OBTAIN
- SAME FROM THE MANUFACTURER. 17 LOW VOLTAGE CABLING SHALL BE INSTALLED AS FOLLOWS.
- NOT INSTALLED WITHIN 18 INCHES OF LIGHT FIXTURE BALLASTS OR WITHIN
- 36 INCHES OF MOTORS OR TRANSFORMERS. IN ACCORDANCE WITH MAXIMUM BENDING RADIUS AS RECOMMENDED BY
- THE MANUFACTURER. INSTALLED PERPENDICULAR TO POWER CONDUIT RUNS UPON THEIR INTERSECTION WHEREVER POSSIBLE.



TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD **BLOOMFIELD HILLS · MICHIGAN · 48302** PH · 248.338.4561 FX · 248.338.0223

EM · INFO OTMP-ARCHITECTURE.COM

**REGISTRATION SEAL** 

CONSULTANT



36400 West Twelve Mile Road Farmington Hills, Michigan 48331 (248) 489−3100 • FAX (248) 489−3161 BAI No. 15-1606

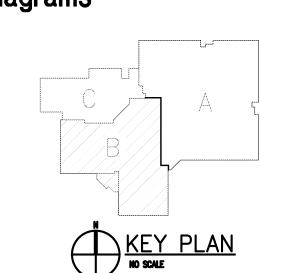
PROJECT TITLE

# Bingham Farms Elementary School Remodeling

Birmingham Public Schools Bloomfield Hills,, Michigan

**DRAWING TITLE** 

Miscellaneous Details and Diagrams



**ISSUE DATES** 

02-15-2016 B.P.No. 1 - BIDS

**ISSUED FOR:** DATE: DRAWN CHECKED

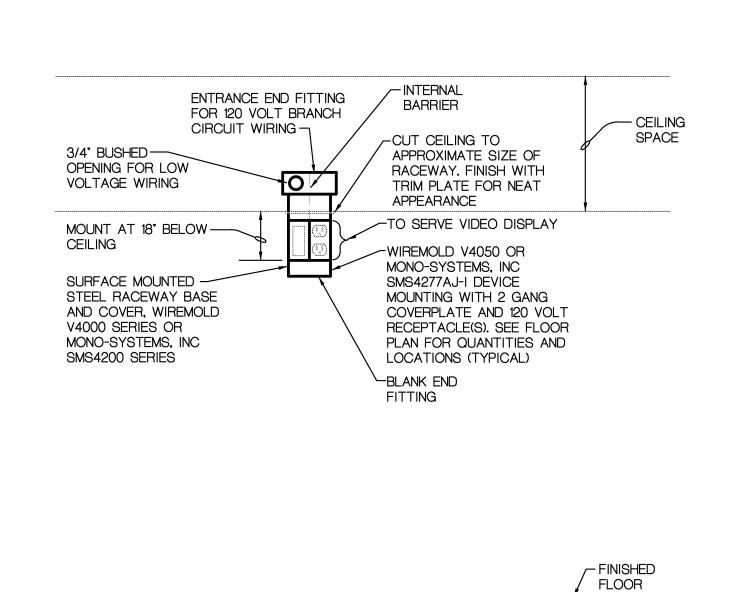
APPROVED

PROJECT NO.

15098

DRAWING NO.

E3.1



SURFACE RACEWAY SRW

				DOOR CON	TROL SCHE	DULE				
				15098 -	Bingham Farms					
Door Number (s) (refer to architectural drawings)	A133A, A133B, A133C	A133D	A144A	A144B	B122C, B122D, A132, B109B	B122E	B109A	B109A	B111	B114A, B116B
Usage	Exterior Entry	Exterior Entry	New Vestibule	New Vestibule	New Vestibule	New Vestibule	Vestibule to Office	Alternate No.2 Vestibule to Office	Office to School	Alternate No. 3 Office to School
Control/ Sequence of Operation	New Electric Strike on timed locking and opening cycle	Strike, Existing Keypad & Prox Reader and NEW ADA Operator	New Electric Strike on timed locking and unlocking cycle, Prox Reader ONLY and ADA Operator	New Electric Strike on timed locking and opening cycle		New electric strike, Keypad and Proximity Reader	Existing mechanical lock remains. In Case of new door, new classroom lock function	added	New electronic lock to replace existing mechanical lock and tied into panic button to lock door from	New electronic lock to replace existing mechanical lock and tied into panic button to lock door from
Refer to Wiring Diagram Indicated	1	2	4	5	N/A	6	N/A	7	both sides 8	both sides 9

DOOR CONTROL SCHEDULE											
	15098 -Bingham Farms										
Door Number (s) (refer to architectural drawings)	A133A, A133B, A133C	A133D	A144A	A144B	B122C, B122D, A132, B109B	B122E	B109A	B109A	B111	B114A, B116B	
Usage	Exterior Entry	Exterior Entry	New Vestibule	New Vestibule	New Vestibule	New Vestibule	Vestibule to Office	Alternate No.2 Vestibule to Office	Office to School	Alternate No. 3 Office to School	
	Strike on timed locking and opening cycle	Strike, Existing Keypad & Prox Reader and NEW ADA Operator	New Electric Strike on timed locking and unlocking cycle, Prox Reader ONLY and ADA Operator	New Electric Strike on timed locking and opening cycle	Existing hardware	New electric strike, Keypad and Proximity Reader	Existing mechanical lock remains. In Case of new door, new classroom lock function		mechanical lock and tied into panic button to lock door from	New electronic lock to replace existing mechanical lock and tied into panic button to lock door from both sides	
Refer to Wiring Diagram Indicated	1	2	4	5	N/A	6	N/A	7	8	9	

	CARD ACCESS/VNS LEGEND
ACP	ACCESS CONTROL PANEL, EXISTING, LOCATED IN TECHNOLOGY HEAD END OR IDF ROOM, VANDERBILT INDUSTRIES VRCNX SERIES
PS	POWER SUPPLY 120-24 VOLT DC (NEW OR EXISTING, REFER TO NOTES SHEET E3.1), VANDERBILT INDUSTRIES SMS SERIES, NEMA ONE ENCLOSURE
VDM	VANDERBILT INDUSTRIES VRINX DOOR MODULE, NEMA ONE ENCLOSURE
ES	ELECTRIC STRIKE, REFER TO DOOR HARDWARE SPECIFICATIONS/SHOP DRAWINGS
MOL	MORTISE LOCK, REFER TO DOOR HARDWARE SPECIFICATIONS/SHOP DRAWINGS
DO	DOOR OPERATOR
R	READER
R/K	COMBINATION READER KEY PAD
DOCP	MOTORIZED DOOR OPERATOR CONTROL PANEL
ELOC	OFFICE PANIC ELECTRIC DOOR LOCK DOWN PUSHBUTTON

NOTE: REFER TO CARD ACCESS/VNS GENERAL AND WIRING NOTES SHEET E3.1

WIRING LEGEND

2/C, 18 AWG, TWISTED, SHIELDED, STRANDED. ONE VRINX DOOR MODULE

ONBOARD RELAY SHALL SERVE A MAXIMUM OF 0.7 AMPS. RELAYS ARE RATED 1 AMP AT 30 VDC. PROVIDE ADDITIONAL RELAY WHERE REQUIRED TO SERVE

WI) 4/C, 18 AWG, TWISTED, SHIELDED, STRANDED

(W5) 6/C, 18 AWG, TWISTED, SHIELDED, STRANDED

(W6) 2/C, 18 AWG, TWISTED, SHIELDED, STRANDED

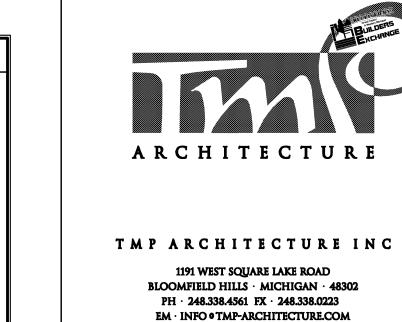
2/C, 18 AWG, TWISTED, SHIELDED, STRANDED

NOTE: REFER TO CARD ACCESS/VNS GENERAL AND WIRING NOTES SHEET E3.1

MORE THAN 0.7 AMPS.

W4 NOT USED

2/C, 18 AWG, TWISTED, SHIELDED, STRANDED



REGISTRATION SEAL

CONSULTANT



36400 West Twelve Mile Road Farmington Hills, Michigan 48331 (248) 489-3100 • FAX (248) 489-3161 BAI No. 15-1606

PROJECT TITLE Bingham Farms Elementary School Remodeling

Birmingham Public Schools Bloomfield Hills,, Michigan

DRAWING TITLE

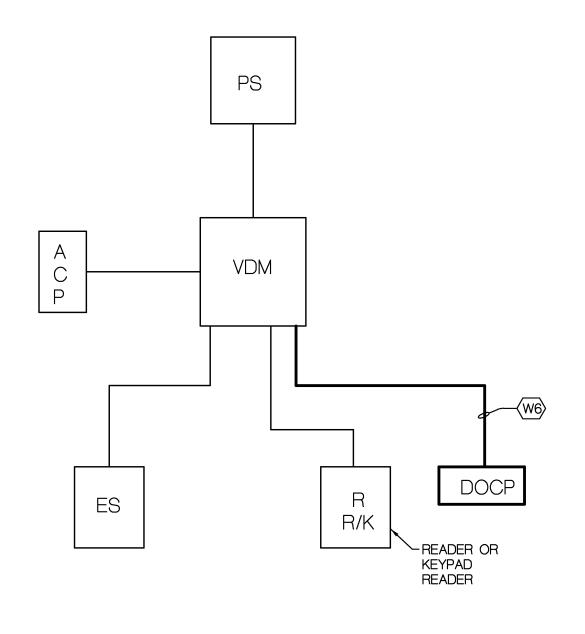
**ISSUE DATES** 

Miscellaneous Details and Diagrams

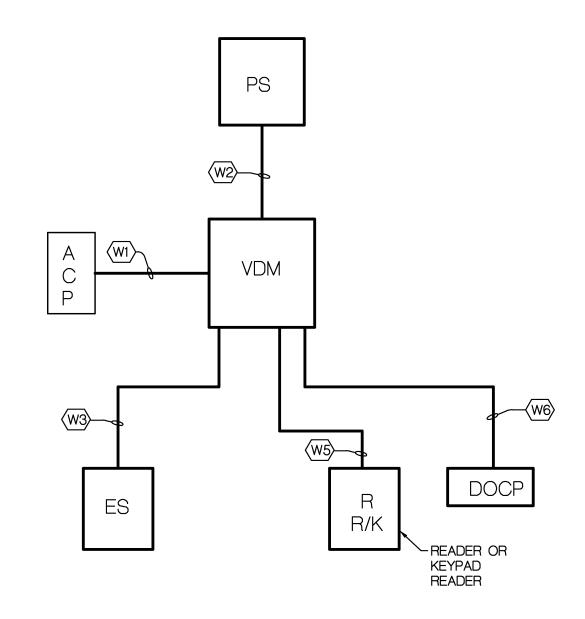
8 9 OFFICE DOOR LOCK DOWN **WIRING DIAGRAM** 

DPS

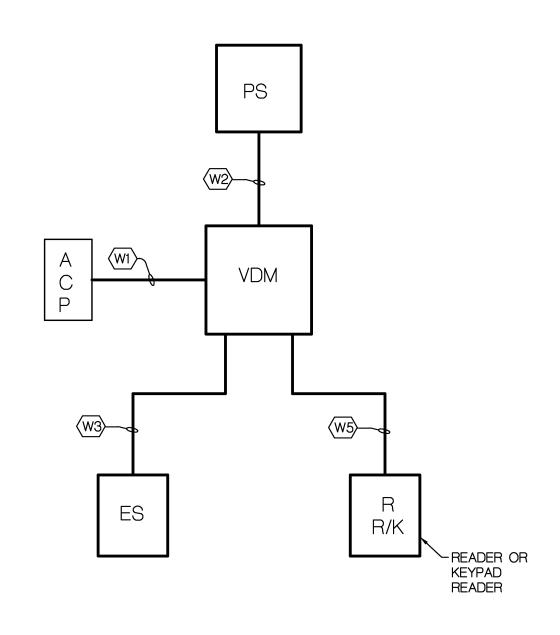
1 5 NEW ACCESS CONTROLLED ELECTRIC STRIKE DOOR ON TIMED LOCKING AND OPENING CYCLE WIRING DIAGRAM



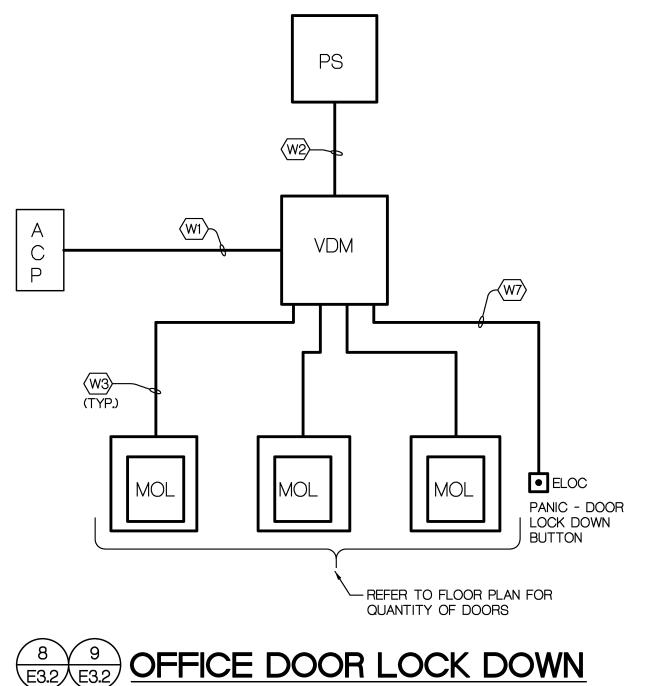
EXISTING ACCESS CONTROLLED DOOR WITH NEW MOTORIZED DOOR OPERATOR WIRING DIAGRAM NO SCALE



NEW ACCESS CONTROLLED **ELECTRIC STRIKE DOOR WITH** MOTORIZED DOOR OPERATOR WIRING DIAGRAM NO SCALE



6 7 NEW ACCESS CONTROLLED ELECTRIC STRIKE DOOR WIRING DIAGRAM



15098

DRAWING NO.

PROJECT NO.

**E3.2** 

B.P.No. 1 - BIDS

	ELECTRICAL SHEET INDEX							
SHEET	DESCRIPTION							
EC1.1	FIRST LEVEL ELECTRICAL COMPOSITE PLAN, SHEET INDEX, SYMBOL LIST AND LIGHTING FIXTURE SCHEDULE							
E0.1A	FIRST LEVEL ELECTRICAL DEMOLITION PLAN - ZONE 'A'							
E1.1A	FIRST LEVEL LIGHTING PLAN - ZONE 'A'							
E2.1A	FIRST LEVEL POWER AND SYSTEMS PLAN - ZONE 'A'							
E3.1	MISCELLANEOUS DETAILS AND DIAGRAMS							
E3.2	MISCELLANEOUS DETAILS AND DIAGRAMS							

		BOY TOLET AND EXISTING
<u>1</u>	EXISTING DP3-C	AII2 EXISTING PANEL X  EXISTING PANEL L-1  WORK  ROOM  AI40  EXISTING PP3-A  EXISTING PP3-A  EXISTING PP3-A
C C	EXISTING PANEL RP3-C EXISTING PANEL RP3-C EXISTING PANEL LP3-C STORAGE CIO3	EXISTING PANEL RP-1T2 EXISTING PANEL L-8
	EXISTING	EXISTING ACCESS CONTROL PANEL, VALCOM 2904 CABINET AND 66 BLOCK, THIS ROOM, FIELD VERIFY EXACT LOCATION OF EACH  EXISTING PANEL  MEDIA  MEDIA
F G	PANEL RP3-EM  EXISTING  PANEL LP3-EM  J.C. C107  EXISTING  BOYS  TOILET D  Bi39	EXISTING PANEL L-4  ROOM A35
	EXISTING PANEL L-5  EXISTING PANEL X-3	STORAGE AI30  EXISTING PANEL L-2 PANEL L-2 PANEL X-2 PANEL IT1  EXISTING PANEL IT1  EXISTING PANEL IT1  EXISTING PANEL IT1
	EXISTIN PANEL I	EXISTING MULTI-PURPOSE B122  ENTRY AREA TO BE RENOVATED FOR SAFETY AND SECURITY
	EXISTING PANEL L+7  EXISTING BOILER BIZ	29

	ELECTRICAL SYMBOL LIST		
SYMBOL	DESCRIPTION		
<b>S</b> <sup>3</sup>	THREE WAY SWITCH		
S <sup>4</sup>	FOUR WAY SWITCH		
	2'x4' LAY-IN FLUORESCENT FIXTURE, TYPE AS INDICATED		
EM	EMERGENCY LIGHT FIXTURE		
<b>⊗</b>	EXIT LIGHT, (SHADED AREA INDICATED FACE OF FIXTURE), TYPE AS INDICATED		
0	PUSHBUTTON		
4	EXISTING PANELBOARD		
(2//2	DISTRIBUTION PANEL		
<b>SD</b>	SMOKE DETECTOR		
FAA	FIRE ALARM ANNUNCIATOR		
0	JUNCTION BOX		
Œ	EXISTING EQUIPMENT OR DEVICES		
(R)	RELOCATED		
ACP	ACCESS CONTROL PANEL, EXISTING, LOCATED IN TECHNOLOGY HEAD END OR IDF ROOM, VANDERBILT INDUSTRIES VRCNX SERIES		
PS	POWER SUPPLY 120-24 VOLT DC (NEW OR EXISTING, REFER TO NOTES SHEET E3.1), VANDERBILT INDUSTRIES SMS SERIES, NEMA ONE ENCLOSURE		
VDM	VANDERBILT INDUSTRIES VRINX DOOR MODULE, NEMA ONE ENCLOSURE		
ES	ELECTRIC STRIKE, REFER TO DOOR HARDWARE SPECIFICATIONS/SHOP		
MOL	MORTISE LOCK, REFER TO DOOR HARDWARE SPECIFICATIONS/SHOP DRAWINGS		
DO	DOOR OPERATOR		
R	READER		
R/K	COMBINATION READER KEY PAD		
DOCP	MOTORIZED DOOR OPERATOR CONTROL PANEL		
ELOC	OFFICE PANIC ELECTRIC DOOR LOCK DOWN PUSHBUTTON		



T M P A R C H I T E C T U R E I N C

1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223

EM · INFO • TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT



36400 West Twelve Mile Road
Farmington Hills, Michigan 48331
(248) 489-3100 • FAX (248) 489-3161
BAI No. 15-1606

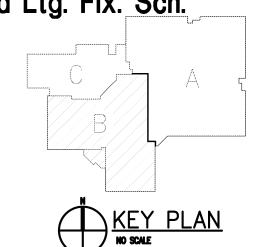
Bingham Farms
Elementary School
Remodeling

Birmingham Public Schools Bloomfield Hills,, Michigan

DRAWING TITLE

**ISSUE DATES** 

First Level Elec. Comp. Plan, Sheet Index, Symbol List and Ltg. Fix. Sch.



-15-2016	B.P.No. 1 - BIDS
TE:	ISSUED FOR:
AWN	CC
IECKED	AZ

PROJECT NO.

15098

DRAWING NO.

EC1.1

Ä	FIRST LEVEL ELECTRICAL COMPOSITE PLAN
	SCALE: 1/16" - 1'-0"