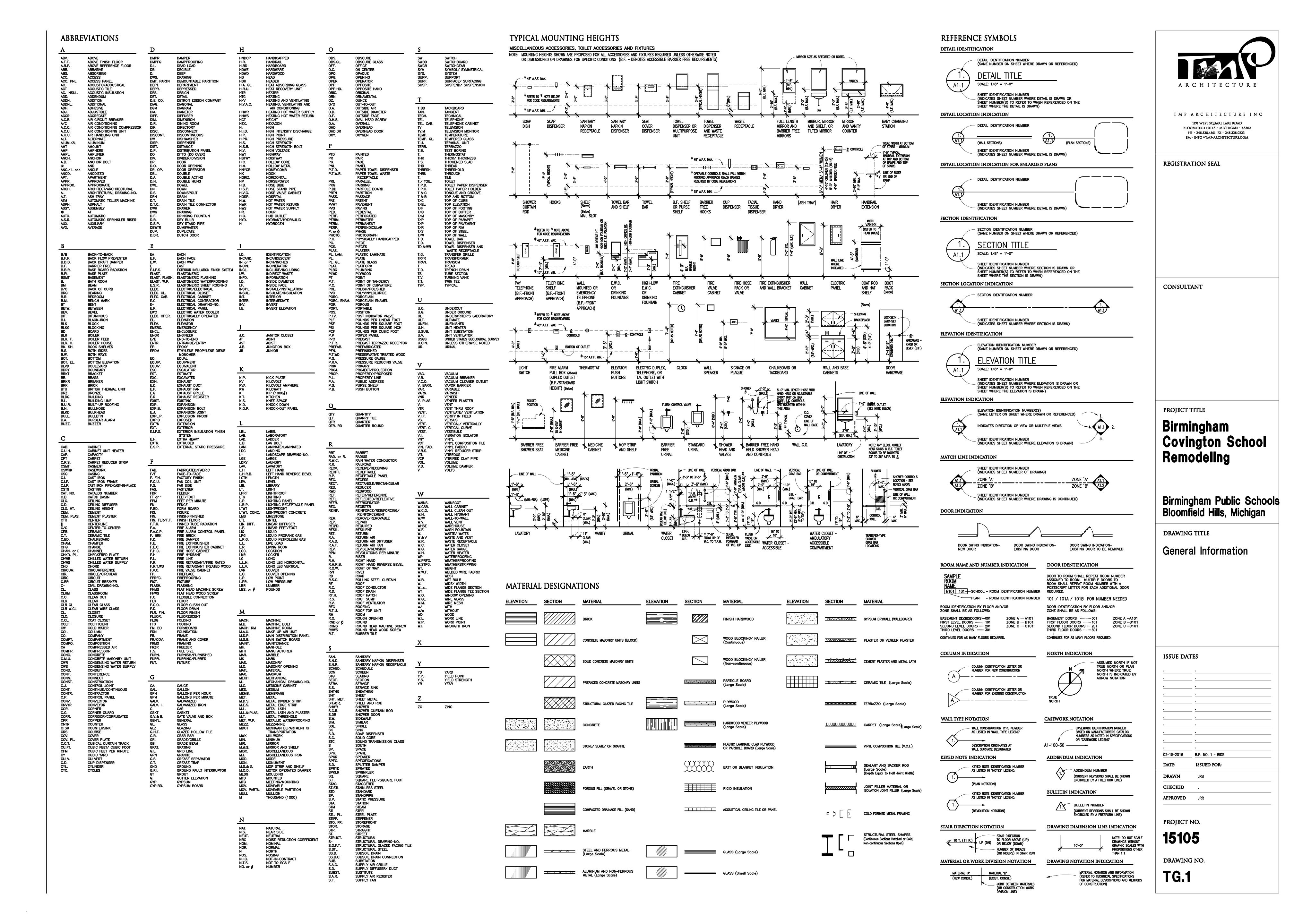
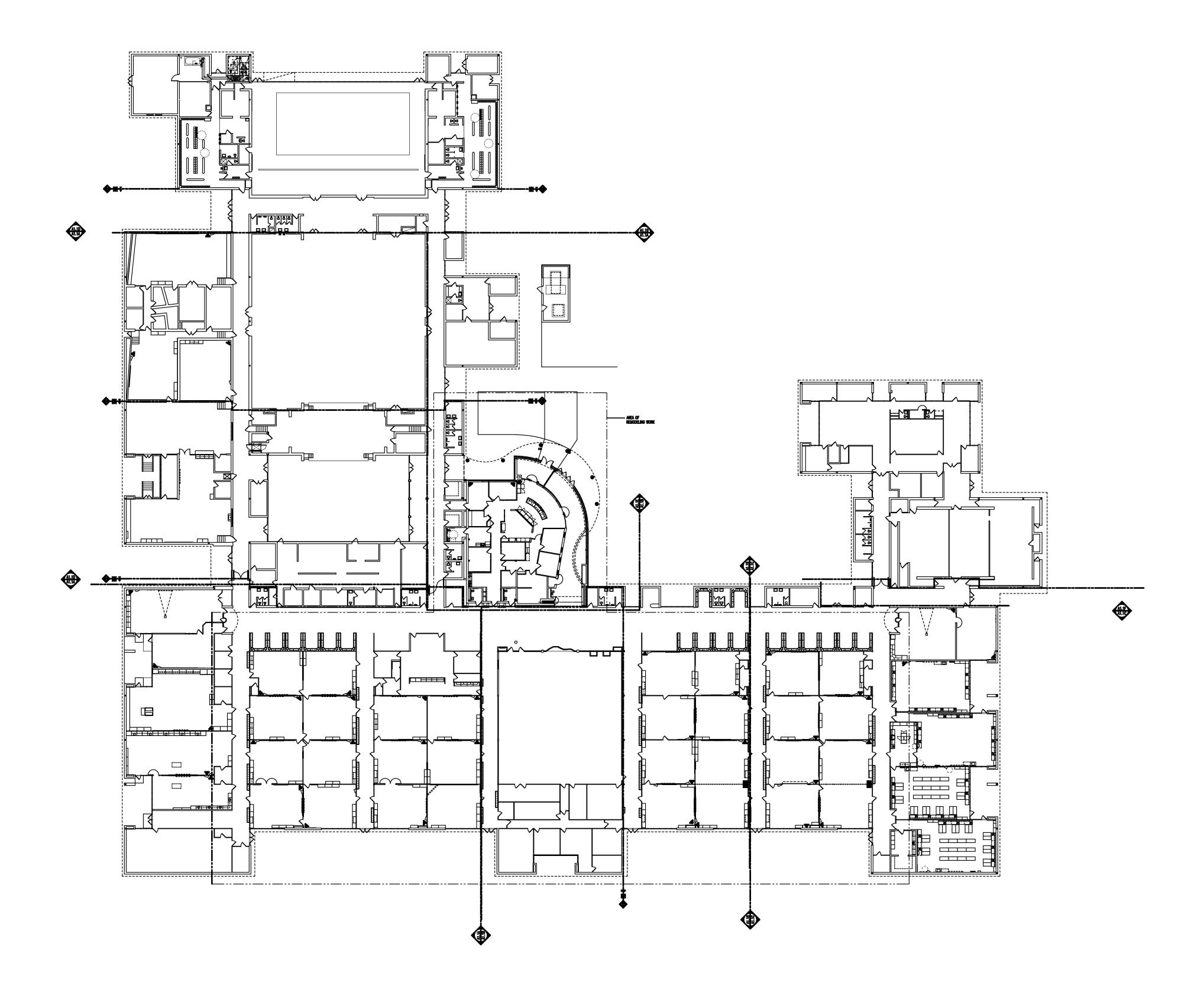
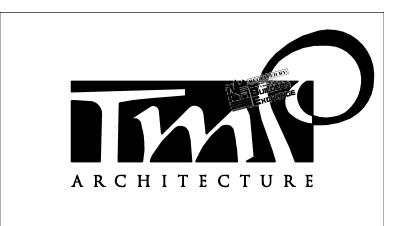


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T M P A R C H I T E C T U R E I N C

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

Birmingham
Covington School
Remodeling

Birmingham Public Schools Bloomfield Hills, Michigan

First Level
Composite Floor Plan

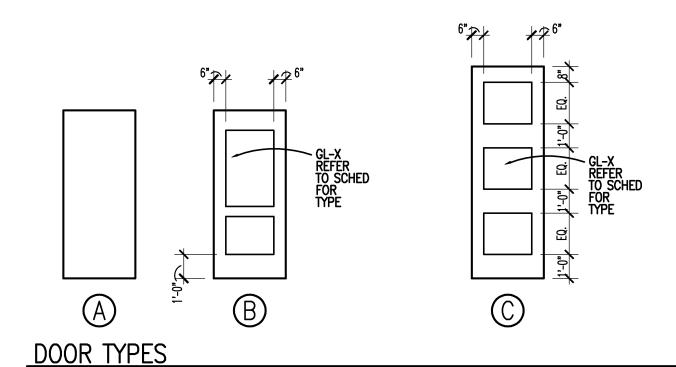
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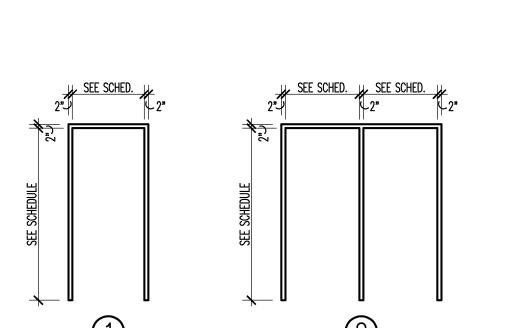
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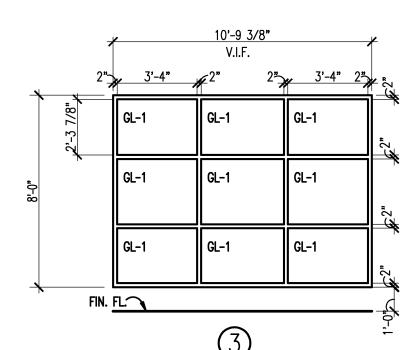
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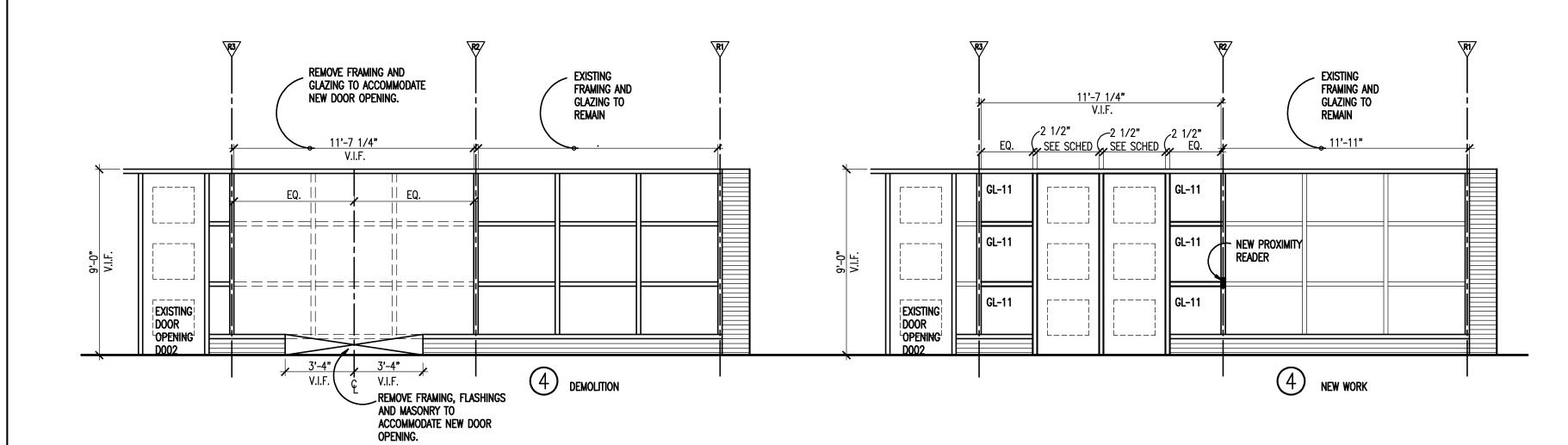
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	DOOR &	F	R/	M	E	S	CH	ED	UL	E						
Oper	ning	D	oor			F	ram	е		Details			<b>7</b>	<u> </u>	<u>ئ</u>	Remarks
No.	Opening Size (Width x Height)	Туре	Material	Finish	Glass	Type	Material	Finish	Glass	Head	Jamb		Threshold	U.L. Label	Hdwe. Set	
Uppe	Upper Level - Zone 'A'															
D100A	3'-0"x 8'-8"	С	FRP	PFN	GL-11	4	AL	PFN	GL-11	3/AD1.1	1/AD1.1	5.AD1.1			17	ALTERNATE A-1: PROVIDE GL-12
D100B	3'-0"x 8'-8"	С	FRP	PFN	GL-11	4	AL	PFN	GL-11	3/AD1.1	1/AD1.1	5/AD1.1		•	18	ALTERNATE A-1: PROVIDE GL-12
D102	3'-0"x 8'-8" (EXIST)	EX.	EX. AL	EX.	EX.*	EX.	EX. AL	EX.	EX.*	•	•	•	•	•	19	ALTERNATE A-1: PROVIDE GL-3
D102A	3'-0"x 8'-8" (EXIST)	EX.	EX.	EX.	EX.	EX.	EX.	EX.	•	•	•	•	•	•	04	•
D114	3'-0"x 7'-0" (EXIST)	EX.	EX. HM	EX.	•	EX.	EX. HM	EX.	•	•	•	•		•	07	ALTERNATE NO. A-3
E100C	SCREEN	SCRI	EEN			3	AL	PFN	1	•	2, 6/AD1.1	4/AD1.1		•	•	•









DOOR SCHEDULE ABBREVIATIONS AND NOTES

(REFER TO SPECIFICATIONS FOR ADDITIONAL DOOR INFORMATION)

#### DOOR SCHEDULE ABBREVIATIONS ALUMINUM

ALUMINUM AND GLASS HOLLOW METAL SOLID CORE HARDWOOD METAL THRESHOLD

STAINLESS STEEL

STEEL

STSTL

PREFINISHED BY MANUFACTURER SYNTHETIC MARBLE THRESHOLD PLASTIC LAMINATE CLAD FIBERGLASS REINFORCED POLYESTER

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

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.).

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.

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

### **GLAZING TYPES**

**U.L. DOOR LABEL DESIGNATIONS:** 

U.L. LABEL\*\* MIN. OPENING PROTECTION ASSEMBLY

1-1/2 HR. FIRE RATING

1 HR. FIRE RATING

3/4 HR. FIRE RATING

1/3 HR. FIRE RATING

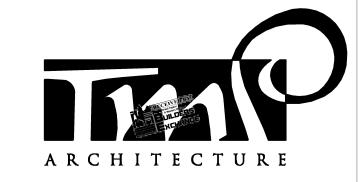
\*\* ALL FIRE RATED DOORS SHALL BE SMOKE AND DRAFT

3 HR. FIRE RATING

(REFER TO SPECIFICATIONS FOR ASSEMBLIES) GL-1 1/4" CLEAR TEMPERED, MONOLITHIC GLASS

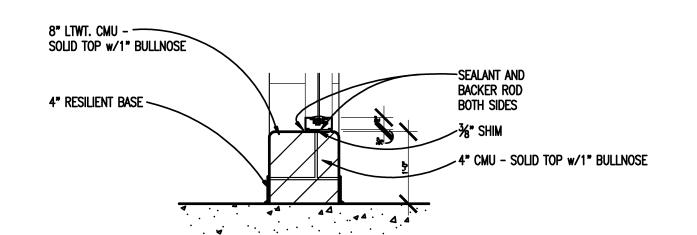
GL-2 1/4" LAMINATED GLASS GL-3 INTERIOR LAMINATED SECURITY GLASS GL-6d 60, 90 OR 120 MIN FIRE RATED GLASS

GL-6c 60 & 90 MINUTE FIRE RATED GLASS - DOORS GL-10 TEMPERED INSULATING GLASS - CLEAR GL-11 TEMPERED INSULATING GLASS - TINTED GL-12 EXTERIOR INSULATING LAMINATED SECURITY GLASS

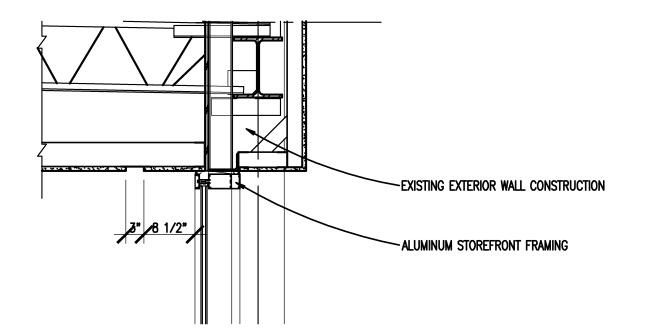


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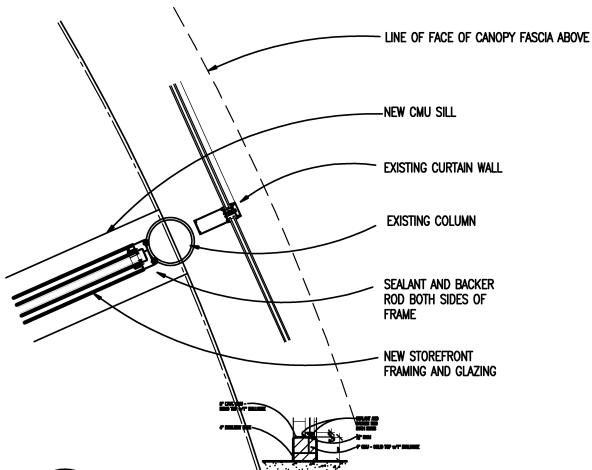
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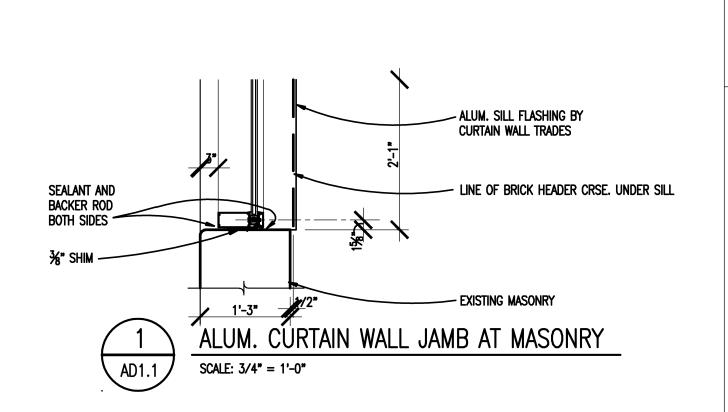












## PROJECT TITLE

CONSULTANT

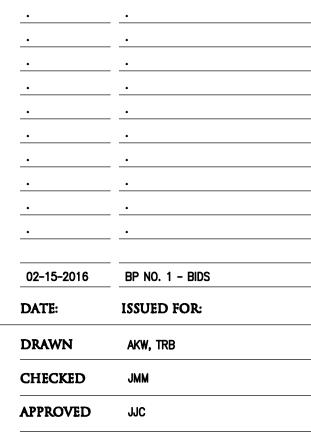
## Birmingham Covington School Remodeling

# Birmingham Public Schools Bloomfield Hills, Michigan

DRAWING TITLE

**ISSUE DATES** 

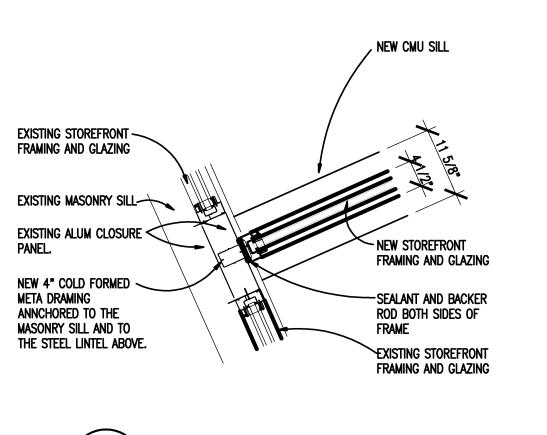
Door & Frame Schedule



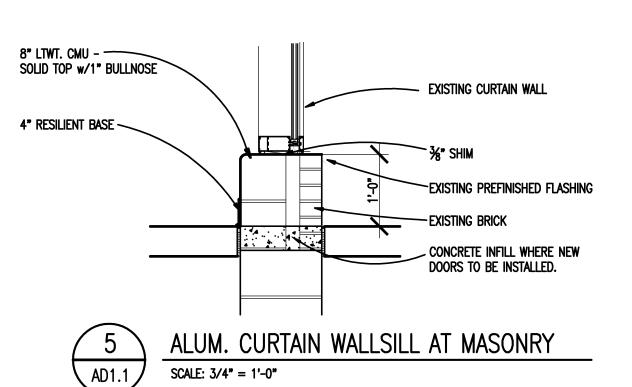
PROJECT NO.

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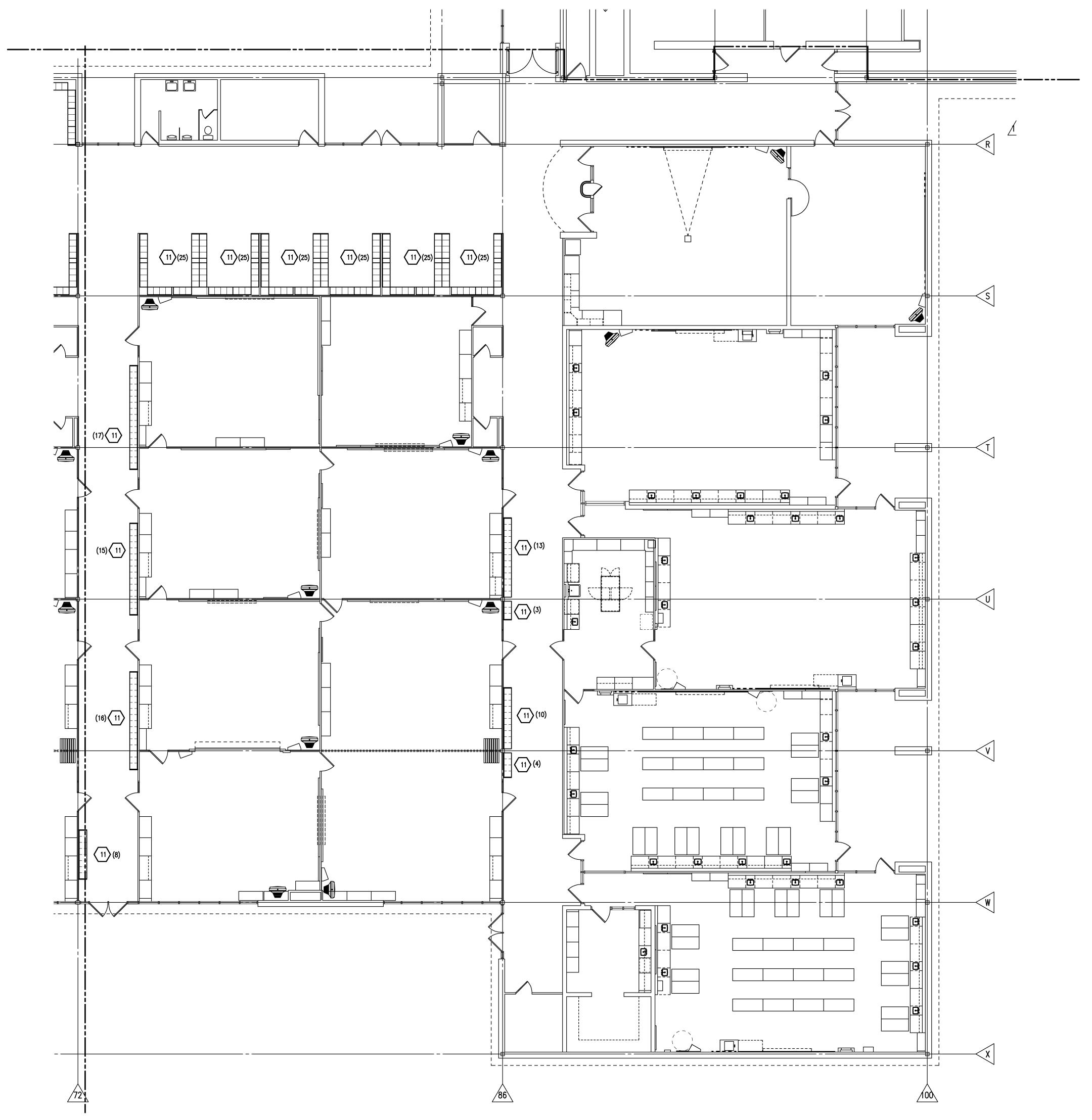
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FRAME TYPES



FIRST LEVEL DEMOLITION PLAN - ZONE 'B'

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

GENERAL NOTES

- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED AND ADDITIONAL DEMOLITION AND PATCHING WORK BY MECHANICAL AND ELECTRICAL TRADES.
- 2. NOT USED.

  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
- TO WINDOW REPLACEMENT.

  5. 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.
- 8. REFER ALSO TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL SELECTIVE DEMOLITION.

#### **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.).
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- 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.
- REMOVE LOCKERS AND BASE AS INDICATED AND PREPARE FOR NEW LOCKERS.
- REMOVE PORTION OF EXISTING CONCRETE SIDEWALK AND EXCAVATE FOR NEW SUPPORTED SLAB ASSEMBLY FOR NEW DOOR OPENING.
- REMOVE PORTION OF EXISTING EXTERIOR GLAZING ASSEMBLY INCLUDING FRAMING, GLASS, AND CURB WALL, TO ACCOMMODATE NEW DOOR OPENING.

SALVAGED ITEMS

DOORS AND HARDWARE.

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REGISTRATION SEAL

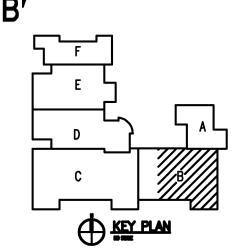
CONSULTANT

PROJECT TITLE

## Birmingham Covington School Remodeling

Birmingham Public Schools Bloomfield Hills, Michigan

First Level
Demolition Plan Zone 'B'



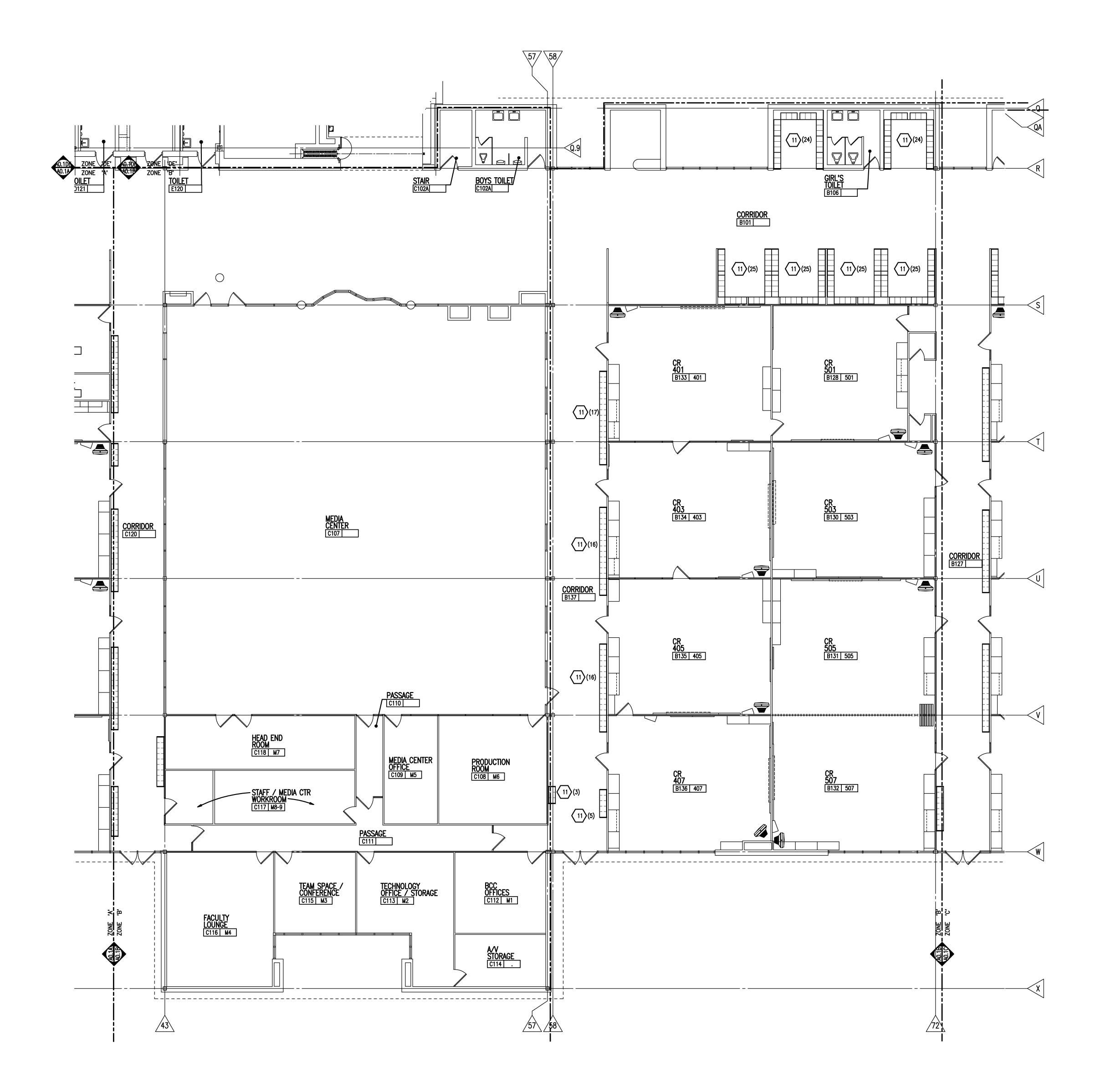
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PROJECT NO.

15105

DRAWING NO.

A0.1B



FIRST LEVEL DEMOLITION PLAN - ZONE 'BC'

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

GENERAL NOTES

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

2. NOT USED.

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 TO WINDOW REPLACEMENT.

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WHERE REMOVAL OF CASEWORK, MILLWORK, CHALKBOARD, TACKBOARD, OR EQUIPMENT, IS INDICATED. FILL HOLES AND PATCH EXISTING WALLS, BASES AND

6. 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.
 8. REFER ALSO TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL SELECTIVE

DEMOLITION KEYNOTES

DEMOLITION.

CEILINGS WHICH ARE TO REMAIN EXPOSED.

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.).

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REMOVE PORTION OF EXISTING EXTERIOR GLAZING ASSEMBLY INCLUDING FRAMING, GLASS, AND CURB WALL, TO ACCOMMODATE NEW DOOR OPENING.

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REGISTRATION SEAL

CONSULTANT

Birmingham
Covington School
Remodeling

Birmingham Public Schools Bloomfield Hills, Michigan

drawing title
First Level

SALVAGED ITEMS

DOORS AND HARDWARE.

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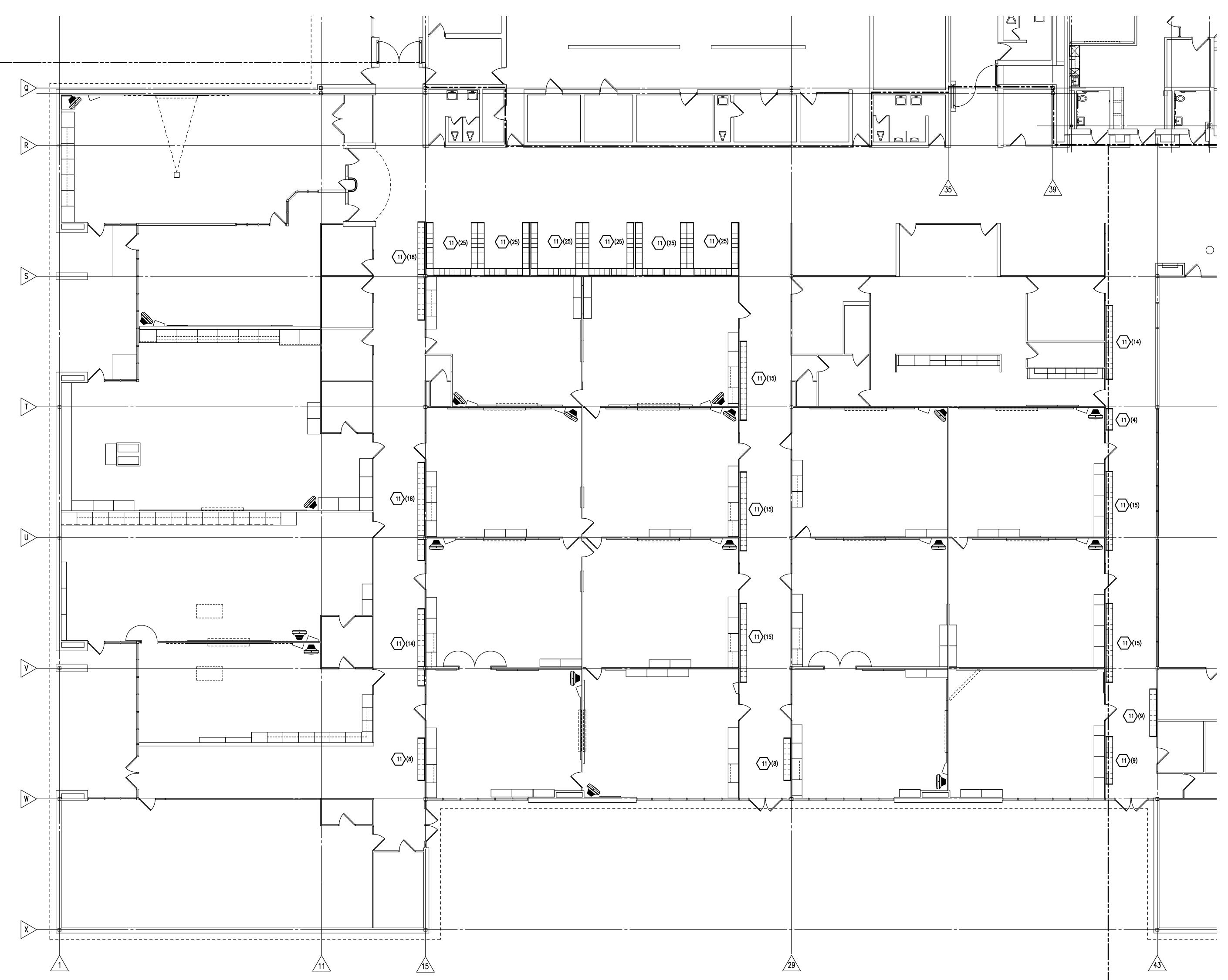
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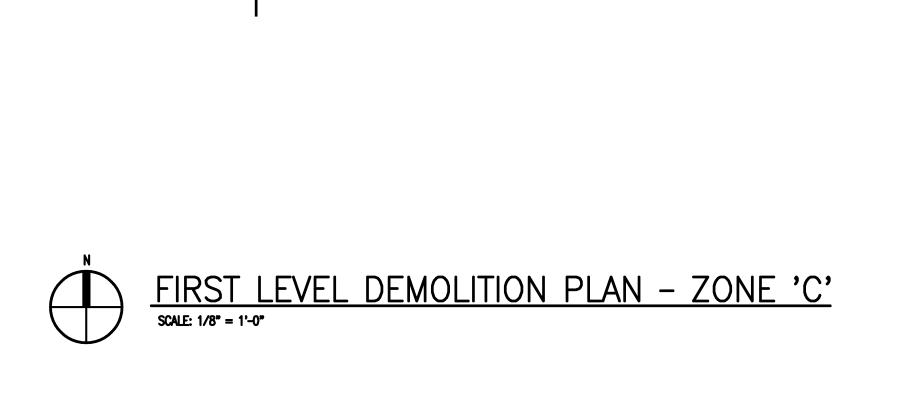
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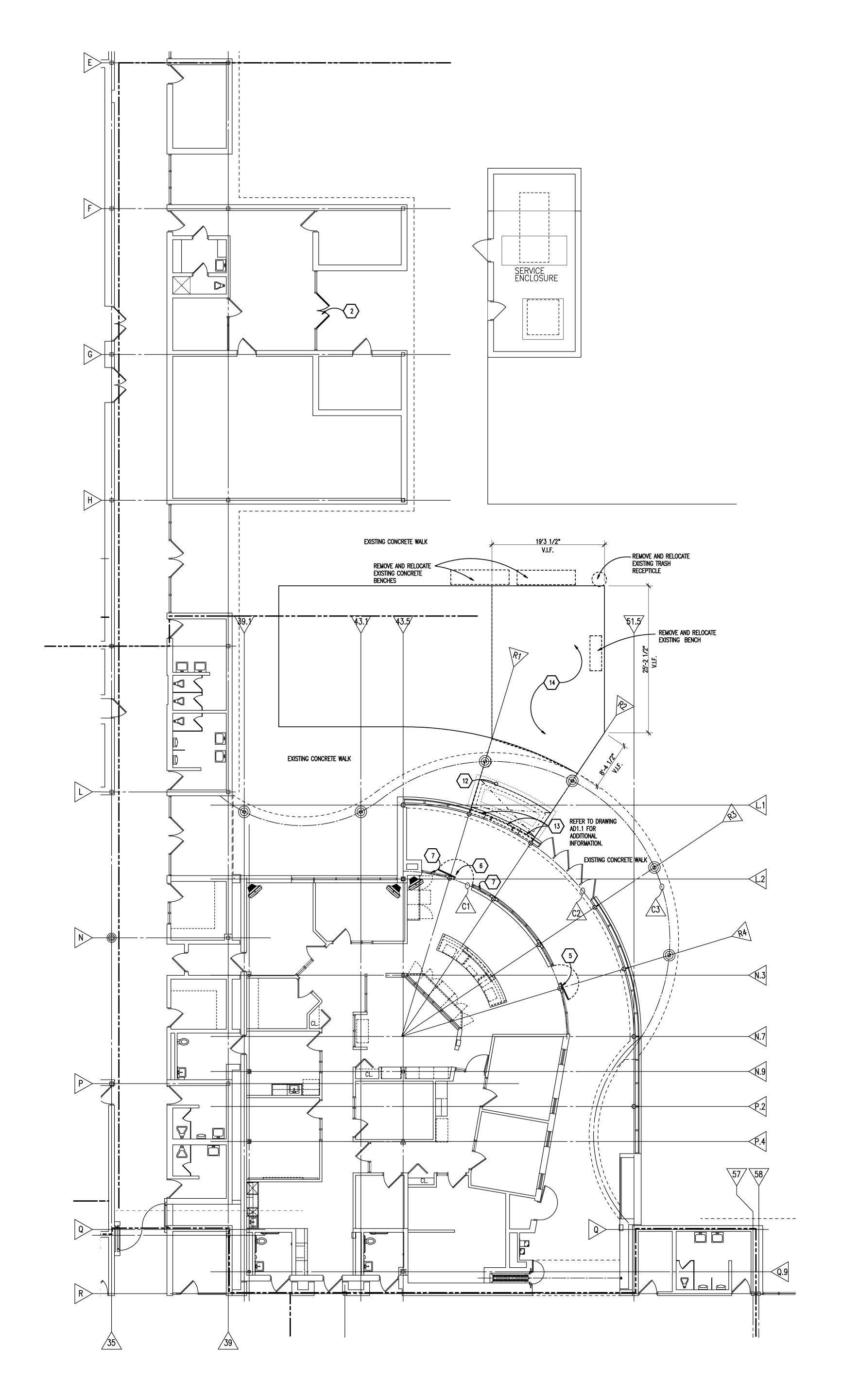
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GENERAL NOTES

- I. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED AND ADDITIONAL DEMOLITION AND PATCHING WORK BY MECHANICAL AND ELECTRICAL TRADES.
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- B. REFER ALSO TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL SELECTIVE

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- EXCAVATE EXISTING LANDSCAPED AREA AND PREPARE AREA FOR NEW 5" CONCRETE SIDEWALK AND COMPACTED BASE.

SALVAGED ITEMS

DOORS AND HARDWARE.

ARCHITECTURE

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REGISTRATION SEAL

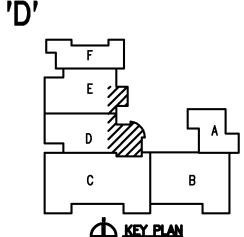
CONSULTANT

PROJECT TITLE

# Birmingham Covington School Remodeling

Birmingham Public Schools Bloomfield Hills, Michigan

DRAWING TITLE First Level Demolition Plan - Zone 'D'

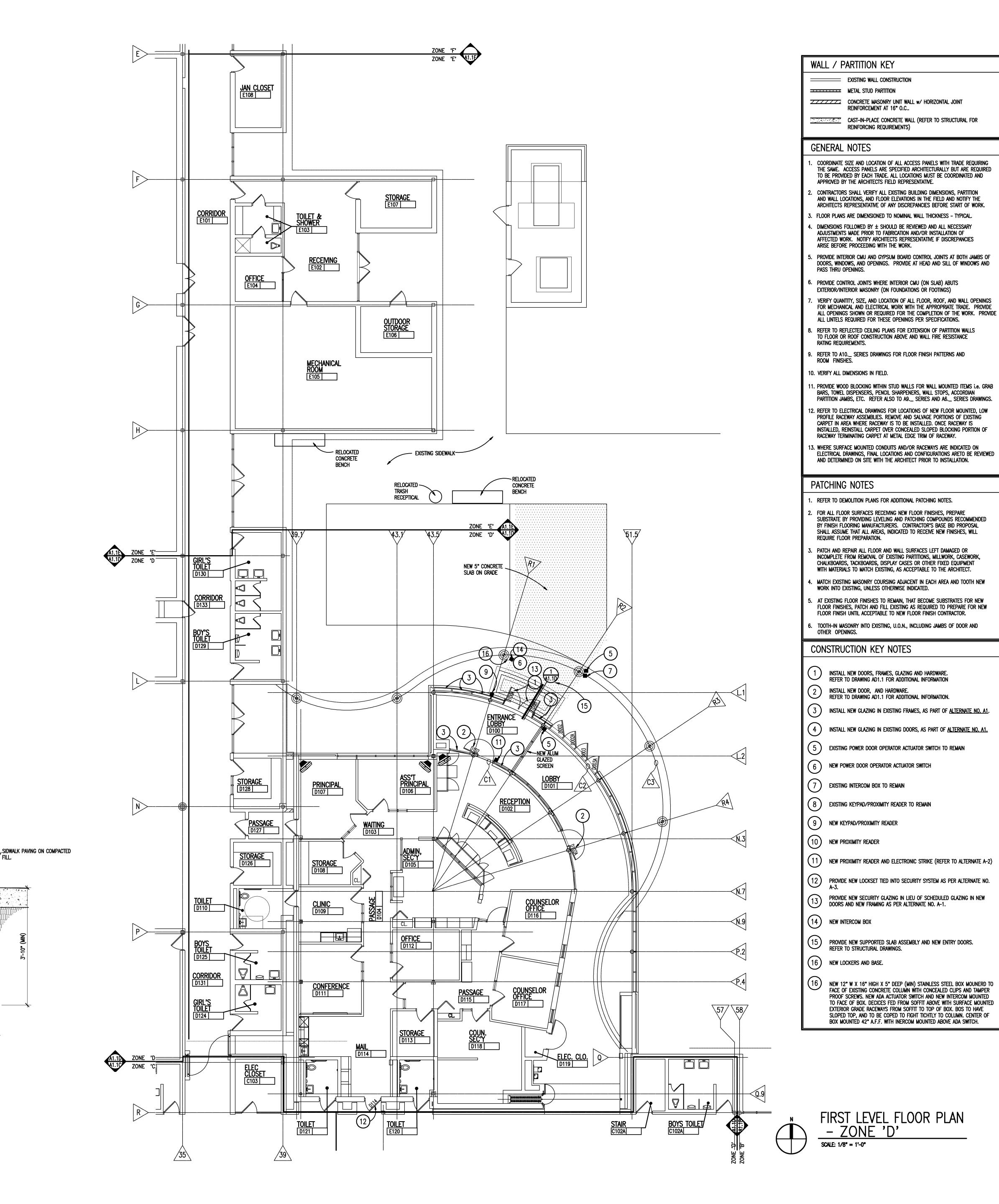


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# 4 L 24 X 24 DOWELS AT 24" ~ O.C. ALL AROUND PERIMETER

4" CONCRETE SLAB W/ # 3
BARS EACH WAY AT 12" O.C. AT
BOTTOM, ON 2" 18 GAUGE GALV.

2 X # 5 BARS TOP AND BOTTOM WITH MIN 2" COVER

SUPPORTED SLAB SECTION

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

PERM.METAL FORM.

EXISTING CMU

GROUT SOULID CMU CELLS WITH —
NEW DOWELS

CORE FOUNDATION TO RECEIVE DOWELS. SET WITH EPOXY GROUT.

EXISTING CONCRETE FOOTING



REINFORCEMENT AT 16" O.C..

REINFORCING REQUIREMENTS)

ARCHITECTURE

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REGISTRATION SEAL

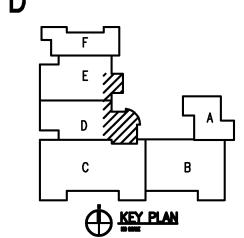
CONSULTANT

PROJECT TITLE

## **Birmingham** Covington School Remodeling

# Birmingham Public Schools Bloomfield Hills, Michigan

DRAWING TITLE First Level Floor Plan -Zone 'D'



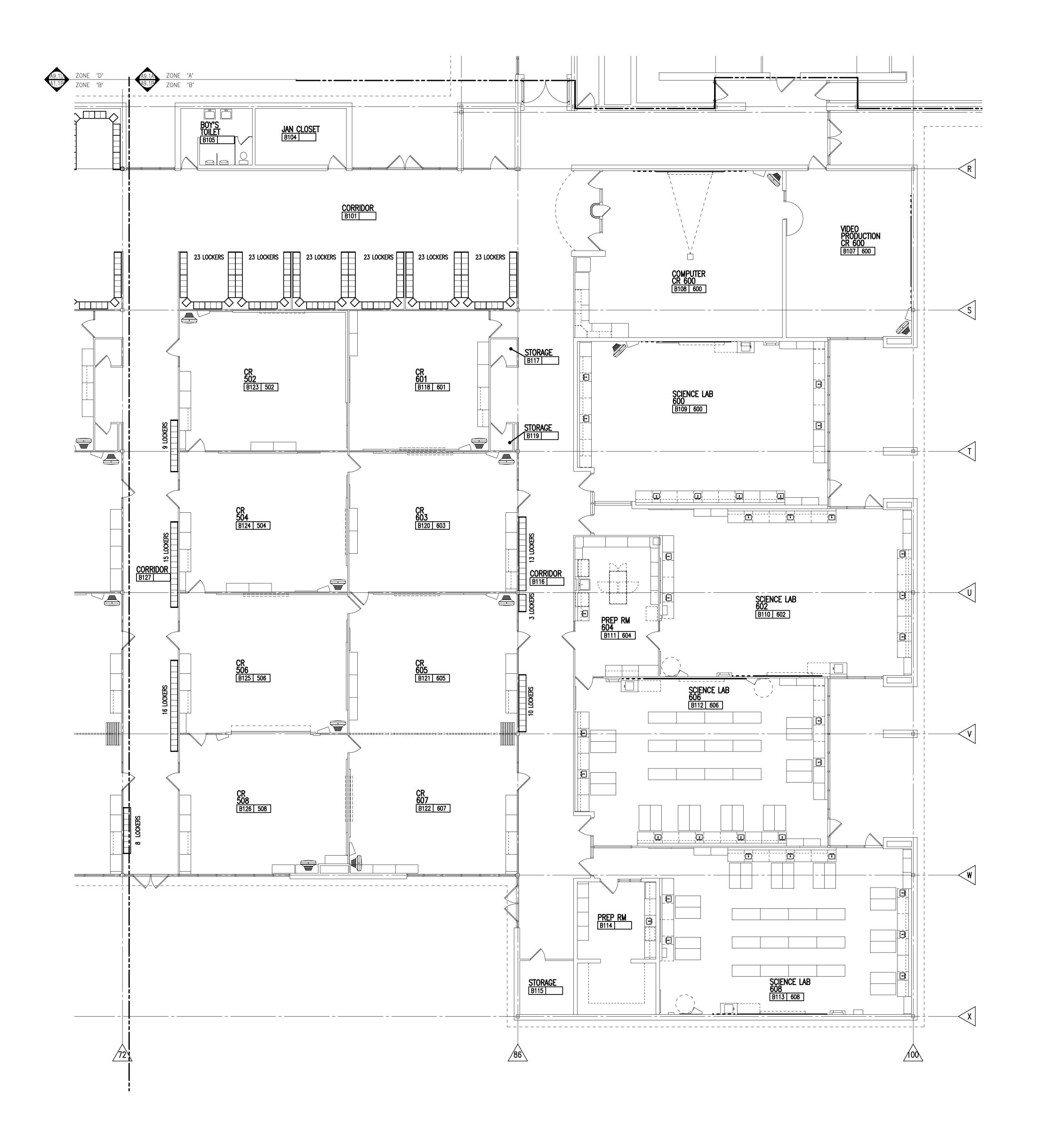
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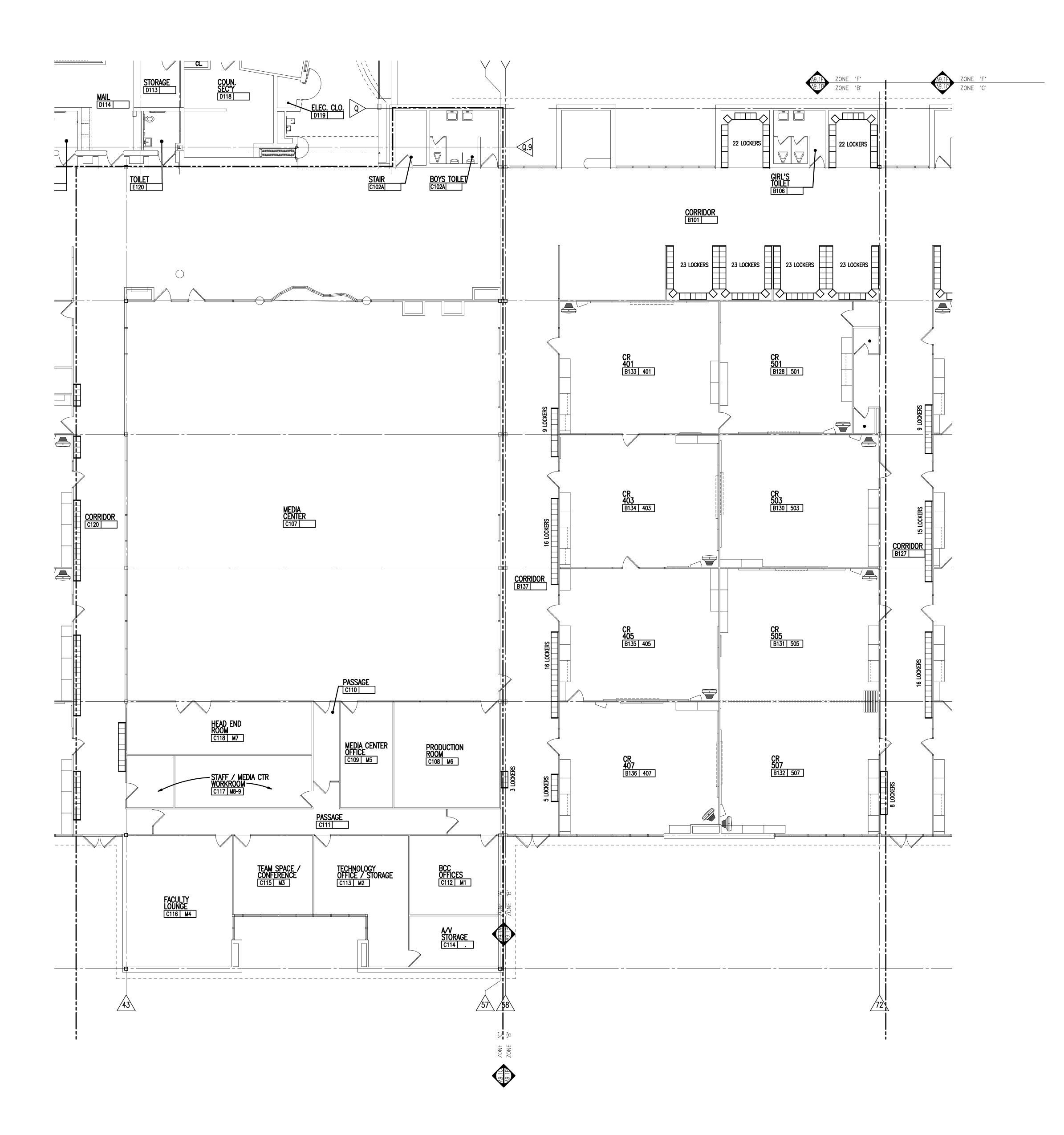
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LEGEND T.V. MONITOR (N.I.C.) & OVERHEAD SUSPENDED MOUNT (N.I.C.). PROVIDE MISC. STEEL AS REQUIRED TO HANG FROM STRUCTURAL T.V. MONITOR (N.I.C.) ON MOBILE CART OR COUNTER. (SEE FURNISHINGS DRAWINGS) WALL MOUNTED PENCIL SHARPENER (P.S.) @ 48" A.F.F. (FURNISHED BY OWNER, INSTALLED BY CONTRACTOR) FIRE EXTINGUISHER ON WALL BRACKET (F.E.) LOCKER LEGEND TMP ARCHITECTURE INC Single-tier standard lockers (12" x 15" x 72" high) ventilated 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH · 248.338.4561 FX · 248.338.0223 EM · INFO @TMP-ARCHITECTURE.COM **REGISTRATION SEAL** LOCKER NOTES: 1. PROVIDE CONTINUOUS SLOPED TOPS AT ALL CORRIDOR LOCKERS ONLY (UNLESS OTHERWISE INDICATED). . PROVIDE FILLER PIECES AT ENDS & CORNERS AS REQUIRED. CONSULTANT PROJECT TITLE

Birmingham Covington School Remodeling Birmingham Public Schools Bloomfield Hills, Michigan First Level
Casework Plan Zone 'B' KEY PLAN **ISSUE DATES** APPROVED JJC PROJECT NO. 15105 DRAWING NO. A1.1B

FIRST LEVEL CASEWORK PLAN - ZONE 'B'
SCALE: 1/8" = 1'-0"

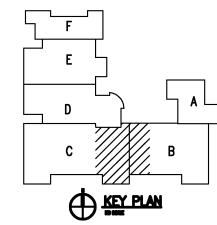


LEGEND T.V. MONITOR (N.I.C.) & OVERHEAD SUSPENDED MOUNT (N.I.C.). PROVIDE MISC. STEEL AS REQUIRED TO HANG FROM STRUCTURAL T.V. MONITOR (N.I.C.) ON MOBILE CART OR COUNTER. (SEE FURNISHINGS DRAWINGS) WALL MOUNTED PENCIL SHARPENER (P.S.) @ 48" A.F.F. (FURNISHED BY OWNER, INSTALLED BY CONTRACTOR) FIRE EXTINGUISHER ON WALL BRACKET (F.E.) LOCKER LEGEND TMP ARCHITECTURE INC Single-tier standard lockers (12" x 15" x 72" high) ventilated 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH · 248.338.4561 FX · 248.338.0223 EM · INFO @TMP-ARCHITECTURE.COM **REGISTRATION SEAL** LOCKER NOTES: 1. PROVIDE CONTINUOUS SLOPED TOPS AT ALL CORRIDOR LOCKERS ONLY (UNLESS OTHERWISE INDICATED). 2. PROVIDE FILLER PIECES AT ENDS & CORNERS AS REQUIRED. CONSULTANT

# Birmingham Covington School Remodeling

Birmingham Public Schools Bloomfield Hills, Michigan

First Level
Casework Plan Zone 'BC'



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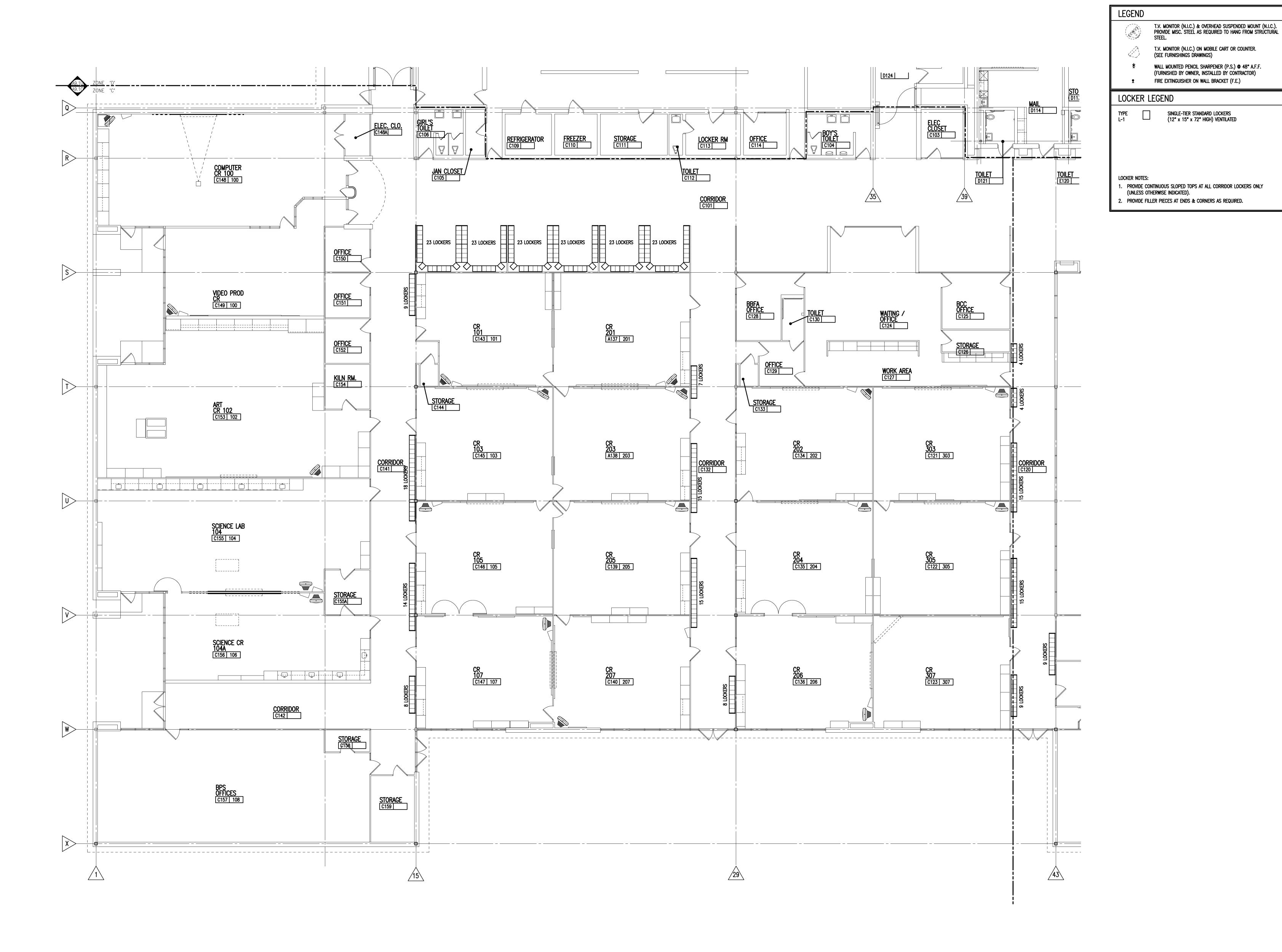
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PROJECT NO.

15105

DRAWING NO.

**A9.1BC** 



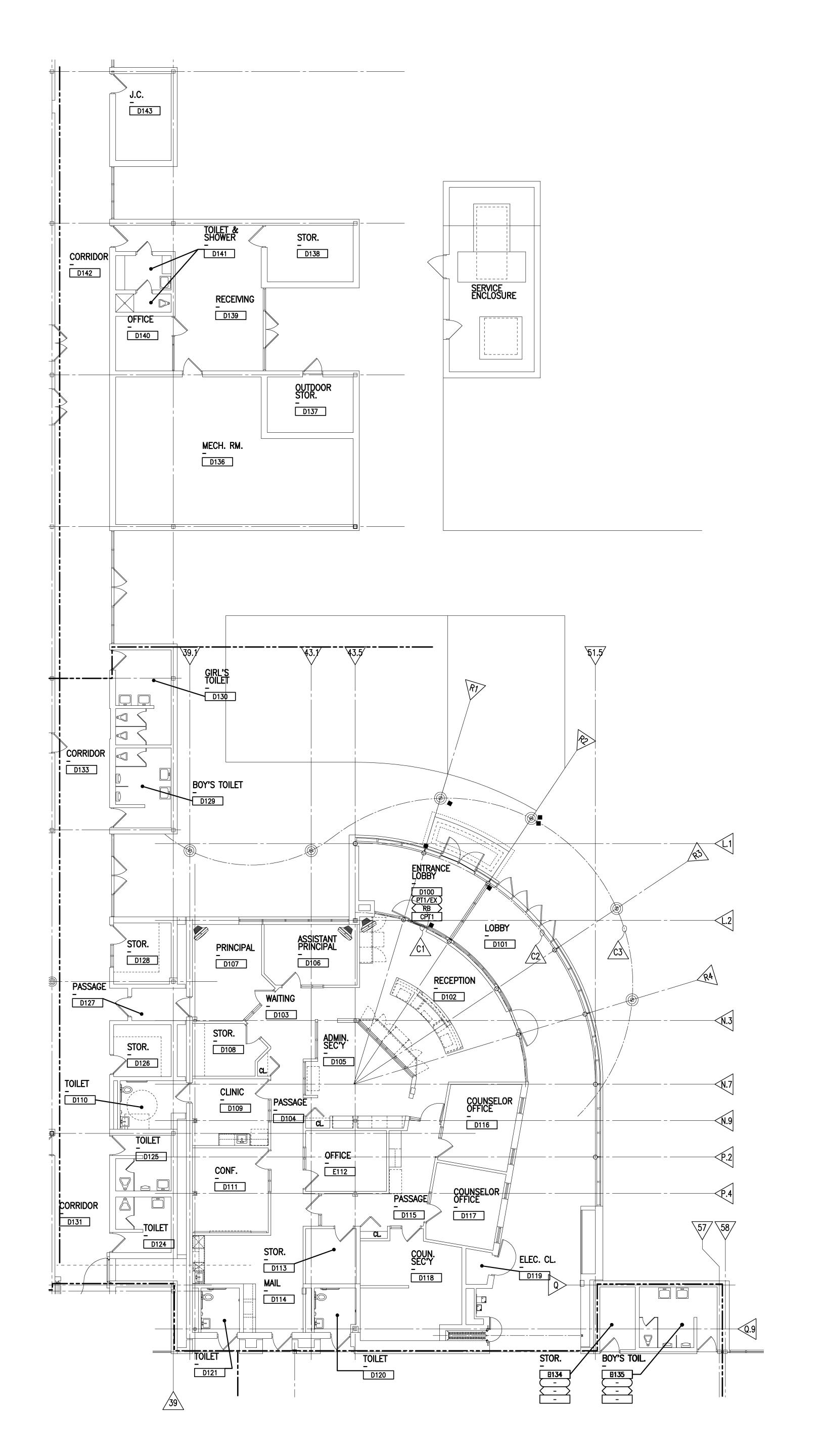
TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS · MICHIGAN · 48302 PH · 248.338.4561 FX · 248.338.0223 EM · INFO @TMP-ARCHITECTURE.COM **REGISTRATION SEAL** CONSULTANT PROJECT TITLE Birmingham Covington School Remodeling Birmingham Public Schools Bloomfield Hills, Michigan First Level
Casework Plan Zone 'C' KEY PLAN **ISSUE DATES** APPROVED JJC PROJECT NO. 15105

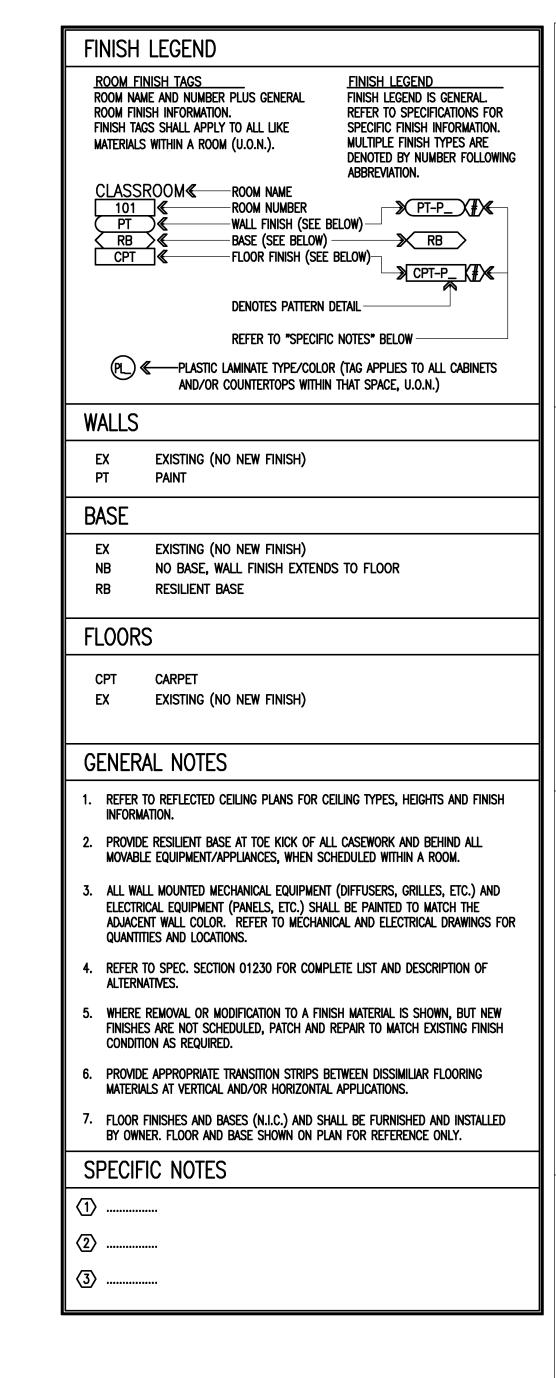
DRAWING NO.

A9.1C

Single-tier standard lockers (12" x 15" x 72" high) ventilated

FIRST LEVEL CASEWORK PLAN - ZONE 'C'
SCALE: 1/8" = 1'-0"







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

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REGISTRATION SEAL

CONSULTANT

PROJECT TITLE

DRAWING TITLE

## Birmingham Covington School Remodeling

Birmingham Public Schools Bloomfield Hills, Michigan

First Level Finish Plan Zone 'D'	-			
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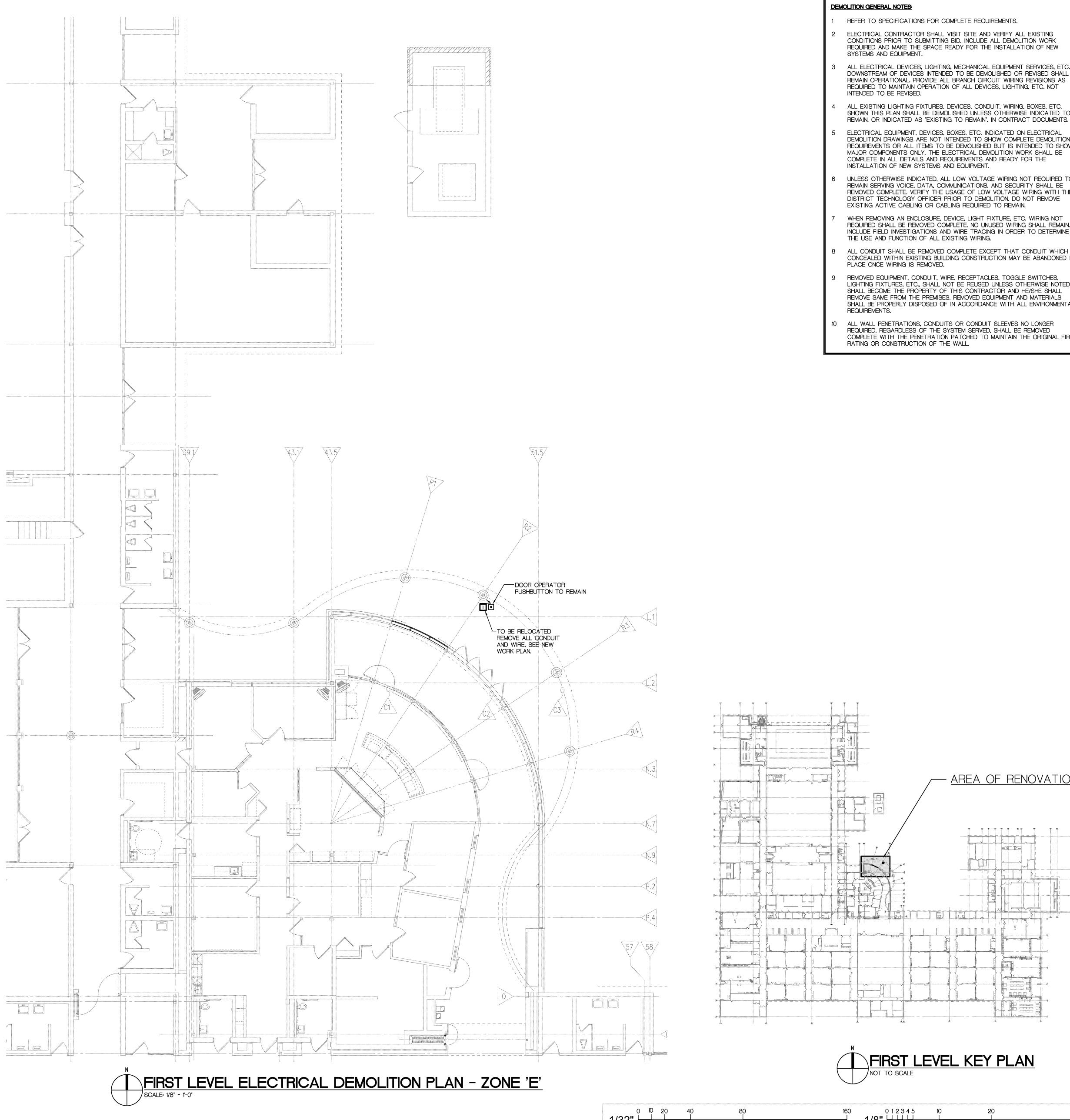
PROJECT NO.

APPROVED JJC

15105

DRAWING NO.
A10.1D

FIRST LEVEL FINISH PLAN - ZONE 'D'
SCALE: 1/8" = 1'-0"



WHEN USING THIS DRAWING - PLOT OR PRINT FULL SIZE TO ENSURE

CORRECT SCALE. NOTE REDUCED SIZE DRAWINGS ARE NOT TO SCALE

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
- 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
- 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.

ARCHITECTURE

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

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REGISTRATION SEAL

CONSULTANT

BERBIGLIA ASSOCIATES INC.

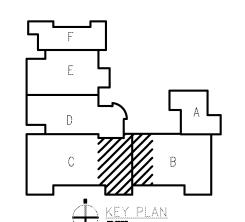
36400 West Twelve Mile Road Farmington Hills, Michigan 48331 (248) 489-3100 • FAX (248) 489-3161 BAI No. 15-1606

PROJECT TITLE Birmingham Covington School Remodeling

Birmingham Public Schools Bloomfield Hills,, Michigan

DRAWING TITLE

First Level Electrical Demolition Plan - Zone 'E'



**ISSUE DATES** 

- AREA OF RENOVATION

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

DRAWN CHECKED **APPROVED** JB

PROJECT NO.

15105 DRAWING NO.

**E0.1E** 

#### 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.
- CON CONNECTRAC, IN-CARPET WIREWAY FURNISHED, INSTALLED AND WIRED BY ELECTRICAL TRADES TO ACCOMMODATE SERVICES INDICATED OR NOTED. INCLUDE ALL ACCESSORIES REQUIRED FOR INSTALLATION. COORDINATE ALL WORK WITH ARCHITECTURAL TRADES. FIELD VERIFY EXACT MOUNTING LOCATION WITH ARCHITECTURAL TRADES PRIOR TO INSTALLATION. SEE CONNECTRAC REQUIREMENTS THIS SHEET.
- MDO

  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 MOTOR DOES NOT OPERATE EXCEPT WHEN ACCESS IS APPROVED BY CARD ACCESS
- 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.
- VRINX) 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 NEW POWER SUPPLIES.
- PROXIMITY READER, FURNISHED, INSTALLED, AND WIRED BY ACCESS CONTROL CONTRACTOR.
- ROCD PROXIMITY READER CONTROLLED DOOR. PROVIDE ALL
- PROXIMITY READER WITH INTEGRAL KEYPAD, FURNISHED, INSTALLED, AND WIRED BY ACCESS CONTROL CONTRACTOR.
- (RKCD) PROXIMITY READER/KEYPAD CONTROLLED DOOR.
- EXISTING UNIT VENTILATOR TO BE REMOVED AND REPLACED WITH NEW UNIT BY MECHANICAL TRADES. DISCONNECT ELECTRIC SERVICE AND MODIFY AS REQUIRED. CONNECT TO SERVE NEW REPLACEMENT UNIT. COORDINATE ALL WORK WITH MECHANICAL TRADES.

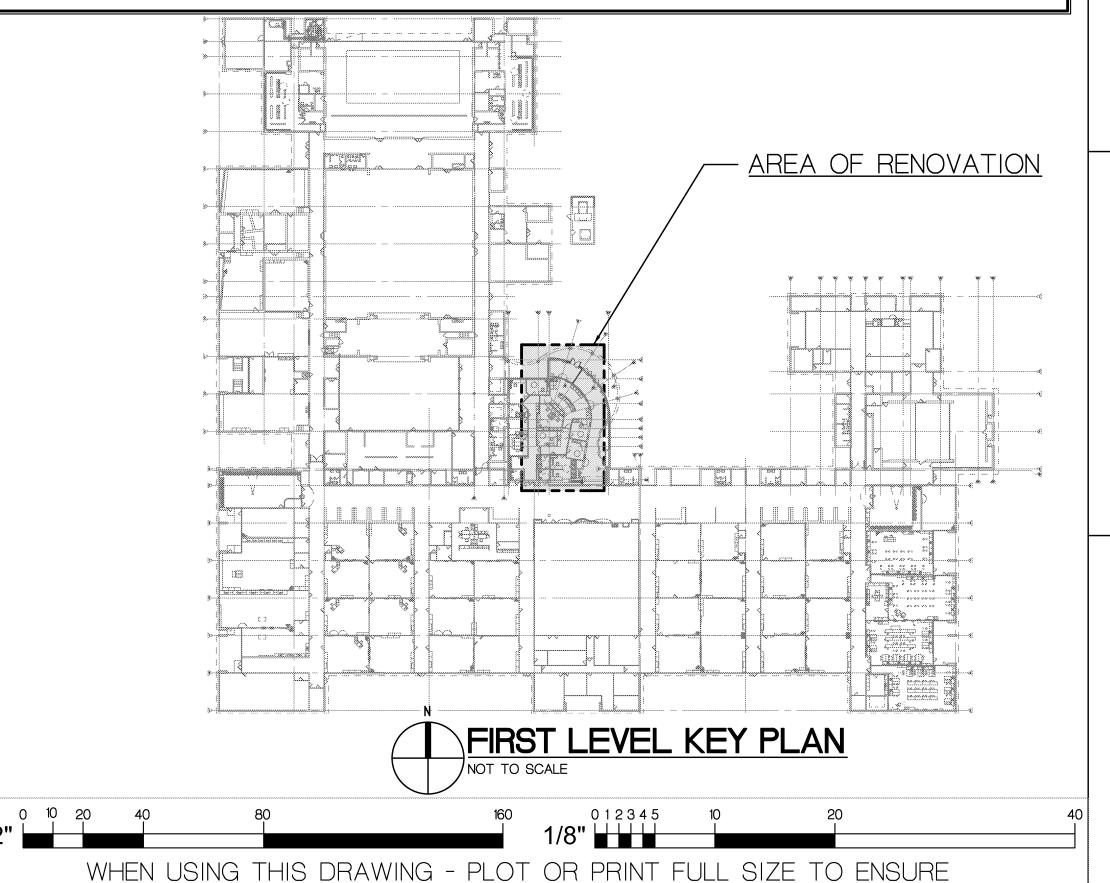
#### POWER AND SYSTEMS KEY NOTES:

- (1) FLUSH CEILING MOUNTED JUNCTION BOX AND CONCEALED 0.75" CONDUIT. STUB CONDUIT INTO ACCESSIBLE CEILING SPACE, BUSH END OF CONDUIT AND PROVIDE PULL WIRE.
- $\langle 2 \rangle$  HOMERUN TO ACP, SEE ACCESS CONTROL DIAGRAMS SHEETS E3.1 AND E3.2.
- 3 120 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.

#### POWER AND SYSTEMS GENERAL NOTES:

- REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- 2 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.
- 3 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.
- 6 ALL CARD ACCESS AND/OR VNS SYSTEM REVISIONS SHALL BE TESTED FOR PROPER OPERATION.
- 7 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 REQUIREMENTS.
- 9 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.
- O 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.
- 13 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 0.1250 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.
- 15 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.
- 6 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.
- 17 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
- 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.
- 22 PROVIDE ACCURATE TYPED DIRECTORIES IN ALL PANELBOARDS.
- 23 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
- 24 AS-BUILT DRAWINGS SHALL INDICATE ACTUAL CIRCUITING FOR ALL PROJECT PANELS.
- 25 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.
- 27 PROVIDE A PULL WIRE IN ALL EMPTY CONDUIT.
- 28 ALL CONDUIT INSTALLED TO SERVE VOICE OR DATA CABLING SHALL HAVE A BUSHED END STUBBED TO AN ACCESSIBLE CEILING LOCATION.
- 29 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.
- 30 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.
- WHERE INSTALLED IN A DOOR OR WINDOW FRAME MULLION

  31 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 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.
- 32 WHEN TRANSITIONING FROM CONDUIT TO NO CONDUIT, UTILIZE A BUSHING ON THE END OF THE CONDUIT
- 33 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.
- 34 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.
- 35 FIRE PROOF INSIDE AND OUT ALL CONDUIT SLEEVES.
- 36 LOW VOLTAGE CABLING SHALL BE INSTALLED AS REQUIRED FOR CONFORMANCE WITH THE CABLING RECOMMENDATIONS OF THE CABLE MANUFACTURER. OBTAIN SAME FROM THE MANUFACTURER
- 37 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.
- 40 WHERE FIRE ALARM SYSTEM REVISIONS ARE MADE, UPDATE THE GRAPHIC ANNUNCIATOR TO REFLECT THE REVISION.
- 41 FIRE ALARM SYSTEM TESTING SHALL INCLUDE THE PERCENTAGE OF EXISTING SYSTEM-UNALTERED DEVICES, WIRING AND EQUIPMENT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.



CORRECT SCALE. NOTE REDUCED SIZE DRAWINGS ARE NOT TO SCALE

ARCHITECTURE

TMPARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD

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REGISTRATION SEAL

CONSULTANT



BERBIGLIA ASSOCIATES INC.

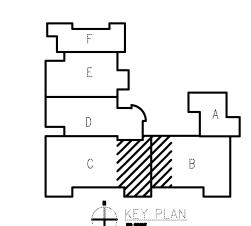
36400 West Twelve Mile Road Farmington Hills, Michigan 48331 (248) 489-3100 • FAX (248) 489-3161 BAI No. 15-1606

Birmingham
Covington School
Remodeling

Birmingham Public Schools Bloomfield Hills,, Michigan

DRAWING TITLE

First Level Power and Systems Plan - Zone 'E'



ISSUE DATES

02–15–2016 B.P.No. 1 – BIDS

DATE: ISSUED FOR:

DRAWN CC

CHECKED AZ

APPROVED JB

PROJECT NO.

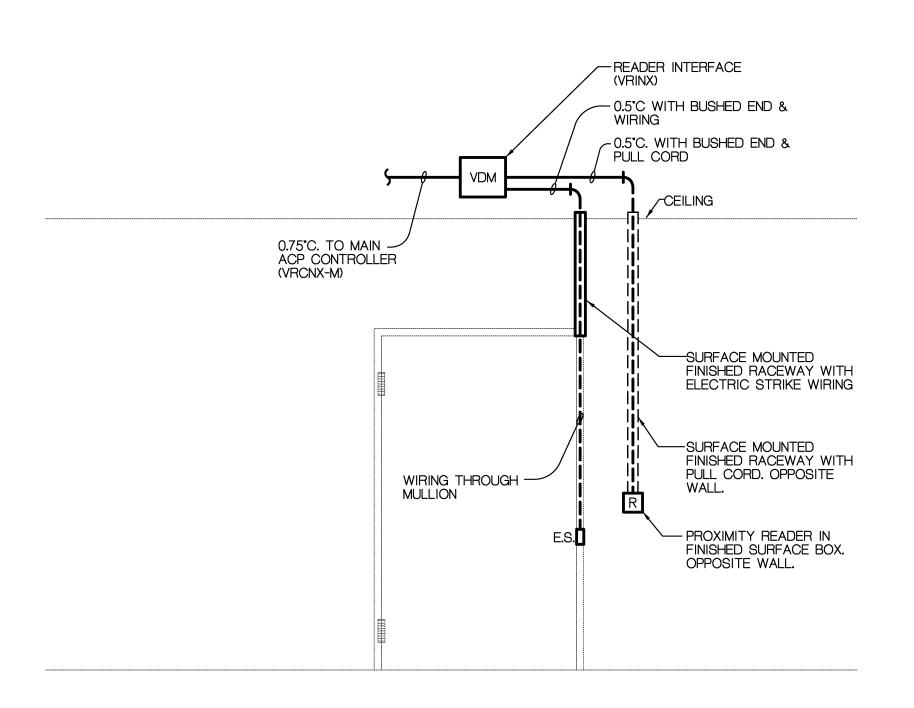
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DRAWING NO.

**E2.1E** 

#### DOOR DIAGRAM NO SCALE

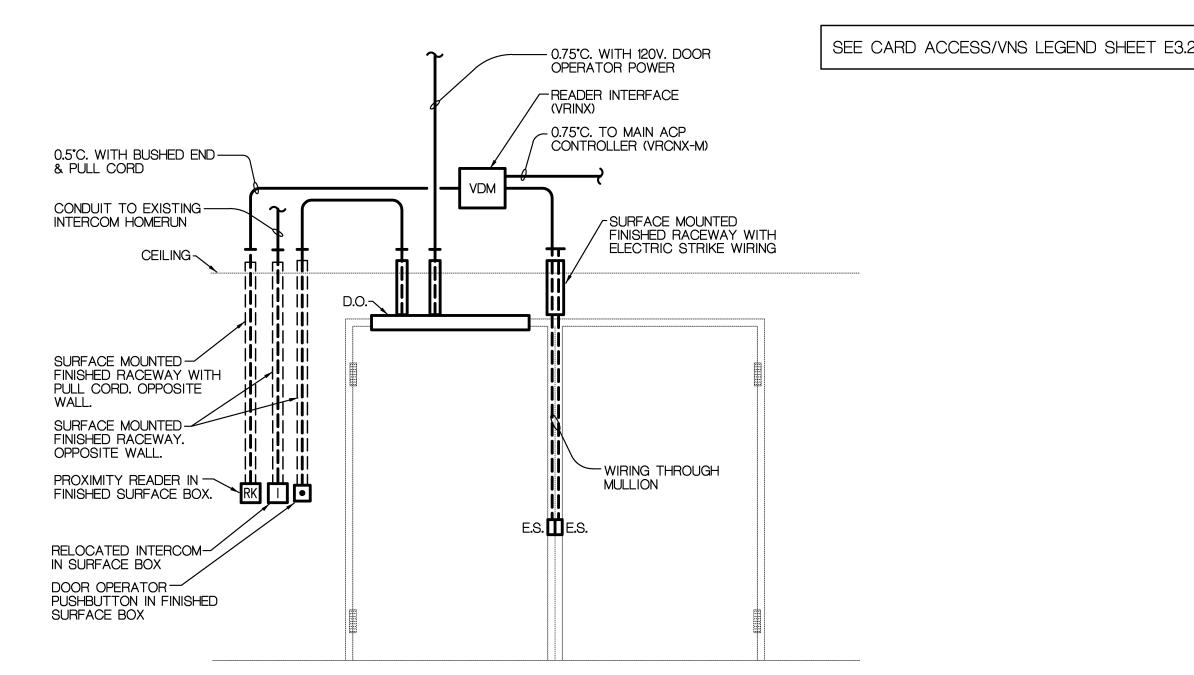
I. SEE DOOR WIRING DIAGRAM SHEET E3.2. 2. SEE FLOOR PLAN FOR ALL OPERATORS. 3. DOORS D002, D002A, D003, D003A



#### DOOR DIAGRAM

NO SCALE

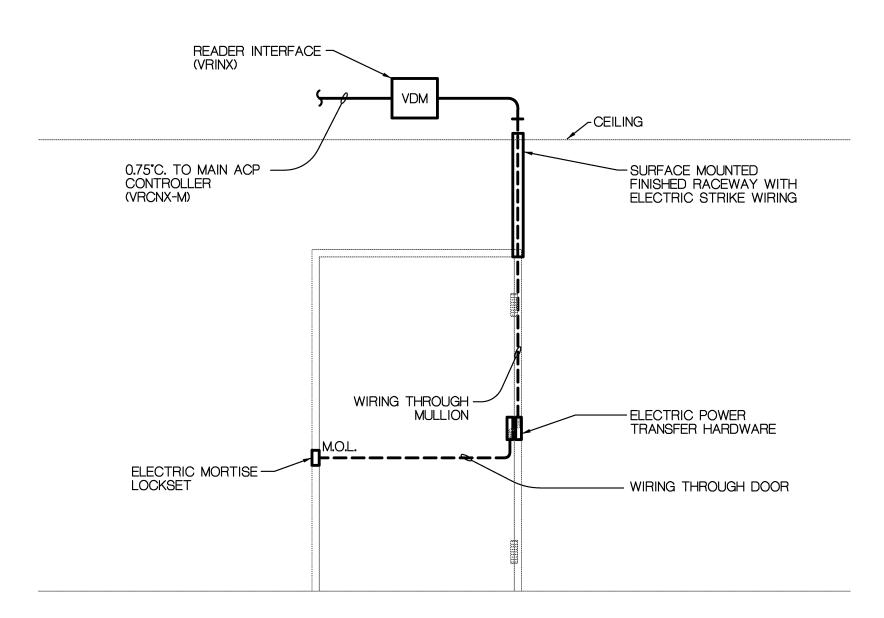
SEE DOOR WIRING DIAGRAM SHEET E3.2. . SEE FLOOR PLAN FOR ALL OPERATORS. 3. DOOR D102



#### DOOR DIAGRAM

NO SCALE

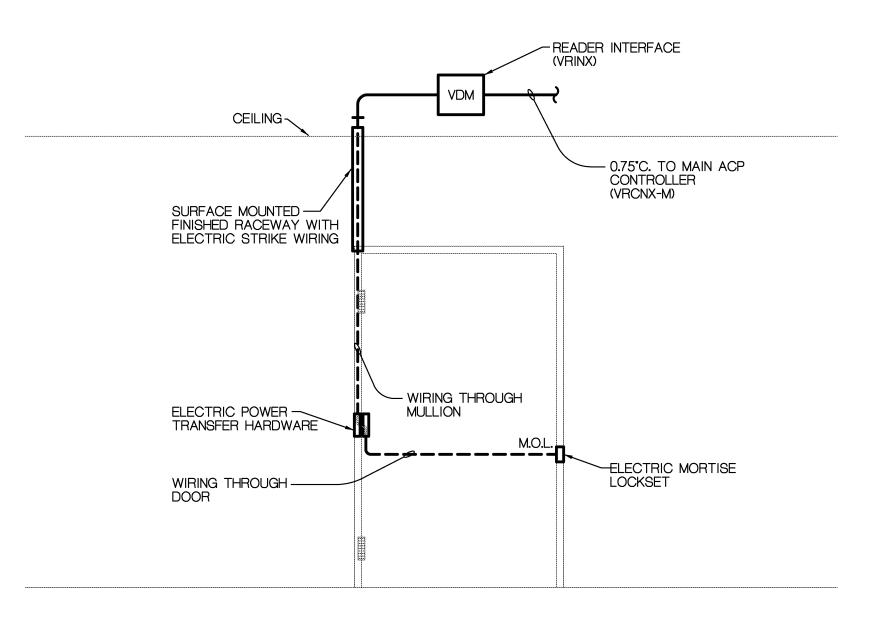
. SEE DOOR WIRING DIAGRAM SHEET E3.2. 2. SEE FLOOR PLAN FOR ALL OPERATORS. 3. DOORS D100A, D100B



#### DOOR DIAGRAM



SEE DOOR WIRING DIAGRAM SHEET E3.2. 2. SEE FLOOR PLAN FOR ALL OPERATORS. 3. DOOR D102A



#### DOOR DIAGRAM

NOTES:

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

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

- 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

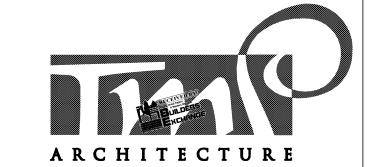
AFF UNLESS OTHERWISE NOTED OR INDICATED.

NAMEPLATE RATING.

- OBTAIN SAME PRIOR TO INSTALLATION. 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, IC. 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.
- 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
- INSTALLED PERPENDICULAR TO POWER CONDUIT RUNS UPON THEIR INTERSECTION WHEREVER POSSIBLE.
- THE MANUFACTURER.



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**CONSULTING ENGINEERS** 

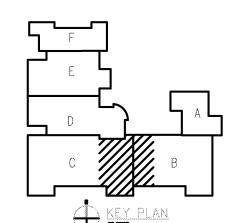
36400 West Twelve Mile Road Farmington Hills, Michigan 48331 (248) 489−3100 • FAX (248) 489−3161 BAI No. 15-1606

PROJECT TITLE Birmingham Covington School Remodeling

Birmingham Public Schools Bloomfield Hills,, Michigan

DRAWING TITLE

Miscellaneous Details and Diagrams



ISSUE DAT	ES	

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

DATE: **ISSUED FOR:** 

DRAWN **CHECKED** 

APPROVED

PROJECT NO.

15105

DRAWING NO.

E3.1

			DOOR CON	TROL SCHE	DULE			
			15105 - Birn	ningham Covingto	n			
Door Number (s) (refer to architectural drawings)	D002	D002A, D003, D003A D100B	D100A	D100B	D102	D102	D102A	D114
Usage	Exterior Entry	Exterior Entry	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	Existing Electric Strike, Existing Keypad & Prox Reader and Existing ADA Operator	New Electric Strike on timed locking and opening cycle	New Electric Strike on timed locking and unlocking cycle, Keypad & Prox Reader and ADA Operator	New Electric Strike on timed locking and opening cycle	Existing mechanical lock remains. In Case of new door, new classroom lock function		lock to replace existing mechanical lock and tied into	New electronic lock to replace existing mechanical lock and tied into panic button to lock door from
Refer to Wiring Diagram	N/A	1	3	5	N/A	7	both sides 8	both sides 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

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

OFFICE PANIC ELECTRIC DOOR LOCK DOWN PUSHBUTTON

COMBINATION READER KEY PAD

ELOC

DOCP MOTORIZED DOOR OPERATOR CONTROL PANEL

W1 4/C, 18 AWG, TWISTED, SHIELDED, STRANDED

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

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

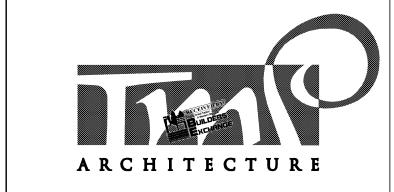
2/C, 18 AWG, TWISTED, SHIELDED, STRANDED

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



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## PROJECT TITLE Birmingham Covington School Remodeling

Birmingham Public Schools Bloomfield Hills,, Michigan

DRAWING TITLE

Miscellaneous Details and Wiring Diagrams

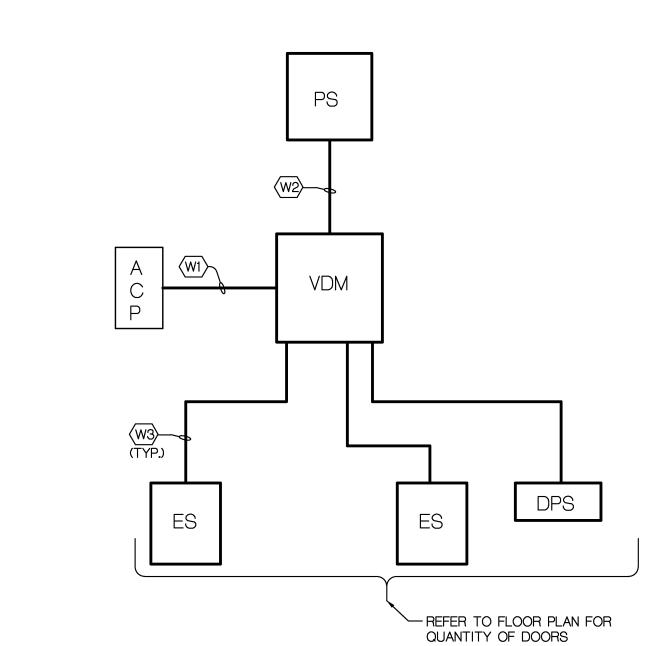
**ISSUE DATES** 

PROJECT NO.

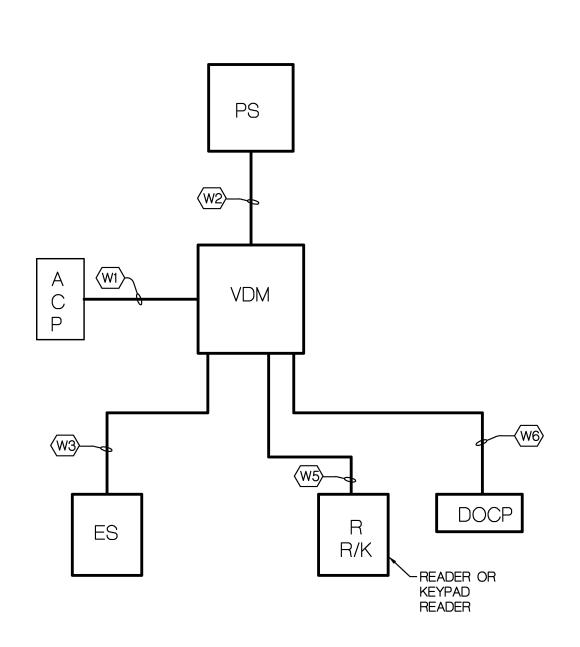
15105

DRAWING NO.

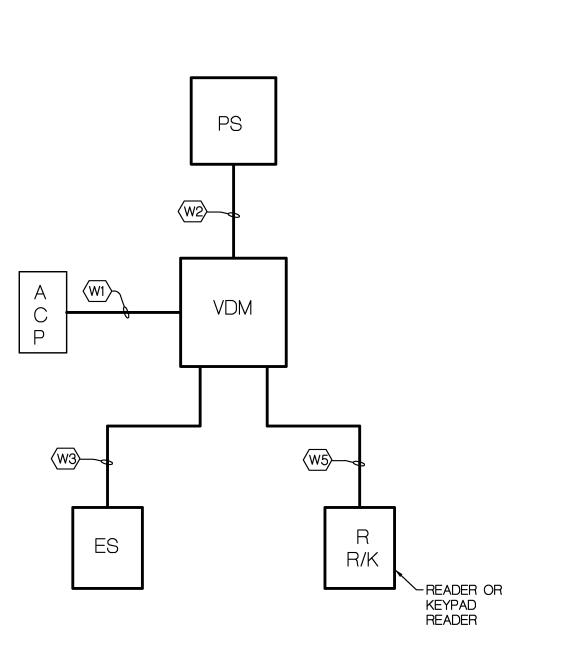
**E3.2** 



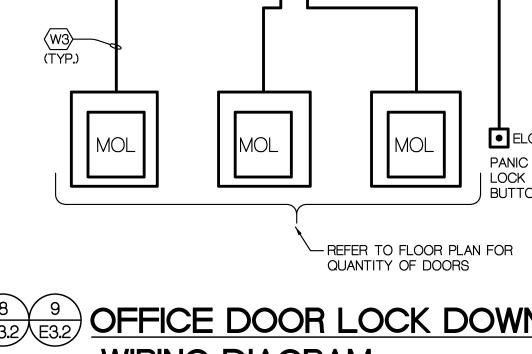
1 5 NEW ACCESS CONTROLLED ELECTRIC STRIKE DOOR ON TIMED LOCKING AND OPENING CYCLE WIRING DIAGRAM



NEW ACCESS CONTROLLED **ELECTRIC STRIKE DOOR WITH** MOTORIZED DOOR OPERATOR WIRING DIAGRAM



NEW ACCESS CONTROLLED ELECTRIC STRIKE DOOR WIRING DIAGRAM

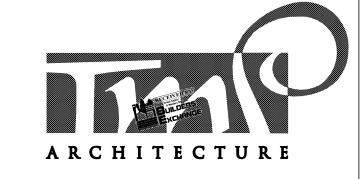


9 OFFICE DOOR LOCK DOWN WIRING DIAGRAM
NO SCALE

WATTAGE  XA LED LED EXIT SIGN, SINGLE FACE THERMOPLASTIC ALL WHITE HOUSING AND FACE, UV-STABLE, UNIVERSAL DUAL DUAL-LITE, SURE-L		LIGHTING FIXTURE SCHEDULE						
WATTAGE  XA LED LED EXIT SIGN, SINGLE FACE THERMOPLASTIC ALL WHITE HOUSING AND FACE, UV-STABLE, UNIVERSAL DUAL DUAL-LITE, SURE-L		LAMP/	LAMP/					
XA LED LED EXIT SIGN, SINGLE FACE THERMOPLASTIC ALL WHITE 120/277V LITHONIA LQM SEI HOUSING AND FACE, UV-STABLE, UNIVERSAL DUAL DUAL-LITE, SURE-L	TYPE	SOURCE/	OURCE/ DESCRIPTION	VOLTAGE	MANUFACTURER(S			
HOUSING AND FACE, UV-STABLE, UNIVERSAL DUAL DUAL-LITE, SURE-L		WATTAGE	/ATTAGE					
	XA	LED	LED EXIT SIGN, SINGLE FACE THERMOPLASTIC ALL WHITE	120/277V	LITHONIA LQM SERIE			
DIRECTIONAL CHEVRON INSERTS, LETTERS 6" HIGH RED INPUT LIGHTALARMS, EN			HOUSING AND FACE, UV-STABLE, UNIVERSAL	DUAL	DUAL-LITE, SURE-LITE			
			DIRECTIONAL CHEVRON INSERTS, LETTERS 6" HIGH RED	INPUT	LIGHTALARMS, EMER			
LETTERS WITH 3/4" STROKE, UNIVERSAL (TOP-, END-, OR READY LITE			LETTERS WITH 3/4" STROKE, UNIVERSAL (TOP-, END-, OR	READY	LITE			
BACK-) MOUNTING.			BACK-) MOUNTING.					

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

ELECTRICAL SYMBOL LIST		
SYMBOL	DESCRIPTION	
<b>s</b> <sup>3</sup>	THREE WAY SWITCH	
	2'x4' LAY-IN FLUORESCENT FIXTURE, TYPE AS INDICATED	
<b>⊗</b>	EXIT LIGHT, (SHADED AREA INDICATED FACE OF FIXTURE), TYPE AS INDICATED	
•	PUSHBUTTON	
4	EXISTING PANELBOARD	
	DISTRIBUTION PANEL	
<b>SD</b>	SMOKE DETECTOR	
FAA	FIRE ALARM ANNUNCIATOR	
0	JUNCTION BOX	
(E)	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 ENCLOSUF	
ES	ELECTRIC STRIKE, REFER TO DOOR HARDWARE SPECIFICATIONS/SHODRAWINGS	
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	



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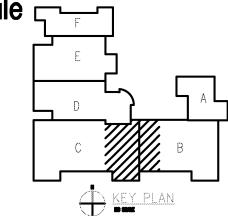
PROJECT TITLE

## Birmingham Covington School Remodeling

Birmingham Public Schools Bloomfield Hills,, Michigan

DRAWING TITLE

First Level Elec. Com. Plan, Sheet Index, Symbol List and Lighting Fixture Schedule



PROJECT NO.

**APPROVED** JB

CHECKED

15105

DRAWING NO.
EC1.1

