





STANDARD ABBREVIATIONS

| | | | |
|---------|-----------------------------------|------|-----------------------------|
| # | st. | KO | knockout |
| A/C | air conditioning | LAM | laminate |
| ACQ/ST | acoustical | LAV | lavatory |
| AD | adjustable | LH | left hand |
| AFS | above finish floor | LL | live load |
| ALT | alternate | LH | long leg horizontal |
| ALUM | aluminum | LVL | long leg vertical |
| ANCH | anchor, anchorage | LWT | light weight |
| ARCH | architect/architectural | | |
| BD | board | MB | manterboard |
| BIT | biminous | MAG | masonry |
| BLDG | building | MAX | maximum |
| BLK | block | MCM | mechanical/mechanical |
| BLKG | blocking | MET | metal |
| BM | bench mark | MM | manipule |
| BOIT | bottom | MIN | minimum |
| BRG | bearing | MIS | miscellaneous |
| BSMT | basement | MO | masonry opening |
| | | MCI | masonry control joint |
| C/C | center to center | MT | metal threshold |
| CAB | cabinet | MULL | mullion |
| CB | chilboard/catch basin | | |
| CDM | cement | NO | not in contract |
| CDR | ceramic | NR | number |
| CF | cubic foot | NOH | nomini |
| CHWS | chilled water return | NRC | noise reduction coefficient |
| CHWS | chilled water supply | NTS | not to scale |
| CI | cast iron | O/O | out to out |
| CJ | center joint | OA | overall |
| CLG | ceiling | OC | on center |
| CMU | concrete masonry unit | OD | outside diameter |
| CO | clean out | OP | opening |
| COL | column | OPP | opposite |
| CONC | concrete | | |
| CONTR | construction | PCF | pounds per cubic foot |
| CONT | continuous/continuing | PLAB | plaster |
| CONTR | contractor/contractor | | |
| CONV | conversion | PS | pounds per square foot |
| CRS | course(s) | PLF | pounds per lineal foot |
| CS | ceramic tile | PSI | pounds per square inch |
| CU | cabinet unit ventilator | PAR | partition |
| CA | domestic cold water | PVC | polyvinyl chloride |
| CV | cubic yard | PMT | pavement |
| | | | |
| | degree | R | rise/radius |
| DET | detail | RA | return air |
| DF | drinking fountain | RD | roof drain |
| DWG | diagonal | REF | reference |
| DA or D | diameter | RFR | refrigerator |
| DM | dimension | RFR | reinforced/reinforcing |
| DIV | division | RFD | resilient |
| DM | dampening | REV | reversed/reversed |
| DS | dampening | RH | right hand |
| DRG | drawing | RM | room |
| | | RO | rough opening |
| EA | each | ROW | right of way |
| EPS | exterior insulation finish system | RS | roof ramp |
| | (synthetic plaster) | RVC | rainwater conductor |
| ELC | electrical | | |
| EQ | equipment | SAN | sanitary |
| EQP | equipment | SBS | slab drain |
| EW | electric water cooler | SECT | section |
| EXT | existing | SHT | sheet |
| EXH | extract | SHR | similar |
| EXT | exterior | SPEC | specification(s) |
| FA | fire alarm | SC | square |
| FAI | fresh air intake | SS | service sink |
| FD | floor drain | ST | stainless steel |
| FL | fire extinguisher | STL | steel |
| FEQ | fire extinguisher cabinet | STD | standard |
| FIN | finish(ed) | SUP | suspended |
| FL | flooring | SYM | symmetry/symmetrical |
| FOUND | foundation | | |
| FTE | fin tube radiation | T&G | torque/groove |
| FTG | footing | T | thead |
| G | gas | TD | teckboard |
| GA | gauge/gauge | TEL | telephone |
| GC | general contractor | TRR | terrace |
| GI | galvanized iron | THR | threshold |
| GL | glass/glass | TRV | trip/valve |
| GST | glazed structural tile | TYP | typical |
| ONLY | glazed | | |
| HD | hose bibb | UH | unit heater |
| HDP | hardware | UR | urinal |
| HM | hollow metal | UV | unit ventilator |
| HORIZ | horizontal | V | vert |
| HGT | height | VERT | vertical |
| HVS | heating/ventilating/ conditioning | | |
| HW | hot water | H | with |
| HWHR | hot water heating return | W | water closet |
| HWHS | hot water heating supply | WO | wood |
| HWK | domestic hot water return | WH | water heater |
| | | WI | wrought iron |
| ID | inside dimension | WU | wall to wall |
| INT | interior | WRK | welded wire reinforcement |
| INV | invert | | |

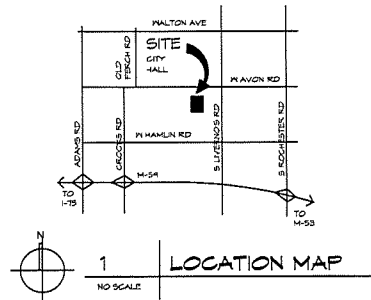
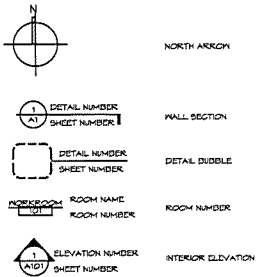
OWNER:
CITY OF ROCHESTER HILLS
 1000 ROCHESTER HILLS DR., ROCHESTER HILLS, MI 48309

PROJECT:
ROCHESTER HILLS CITY HALL
CLERK'S DEPARTMENT RENOVATION
 1000 ROCHESTER HILLS DR., ROCHESTER HILLS, MI 48309

INDEX OF DRAWINGS

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|---|------|--|
| 1 | G001 | TITLE SHEET |
| 2 | G002 | COMPOSITE LOWER LEVEL PLAN & CODE/ PROJECT DATA |
| 3 | A101 | CLERK'S DEPARTMENT DEMOLITION PLAN AND FLOOR PLAN |
| 4 | A102 | COUNCIL CHAMBERS DEMOLITION PLAN AND FLOOR PLAN |
| 5 | A103 | REFLECTED CEILING PLANS |
| 6 | A104 | MILLWORK DETAILS |
| 7 | E-1 | ELECTRICAL SHEET INDEX, SYMBOL LIST, DETAILS AND LIGHTING FIXTURE SCHEDULE |
| 8 | E-2 | ELECTRICAL DEMOLITION AND NEW WORK FLOOR PLANS - CLERK'S OFFICE |
| 9 | E-3 | ELECTRICAL DEMOLITION AND NEW WORK FLOOR PLANS - COUNCIL CHAMBERS |

SYMBOLS KEY



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| PROJECT NO. | 18-151 |
| DATE | OCTOBER 4, 2021 |
| DRAWN | ENR |
| CHECKED | JSH |
| SEAL | |
| G001 | |
| CAO FILE NO. | G001.dwg |
| SHEET | 1 OF 9 |

Z:\PROJECTS\ROCHESTER #18-GA-19191-CITY'S DEPARTMENT RENOVATION

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CODE/ PROJECT DATA

APPLICABLE CODES & ORDINANCES
 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS - 2015
 MICHIGAN PLUMBING CODE - 2015 - NO PLUMBING WORK SCOPE
 MICHIGAN ELECTRICAL CODE - 2014
 MICHIGAN MECHANICAL CODE - 2015 - NO MECHANICAL WORK SCOPE
 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES ICC A111.1-2009

TYPE OF ALTERATION
 WORK AREA #1: LEVEL - 2: RECONFIGURE VAULT & WORKROOM & NEW FINISHES
 WORK AREA #2: LEVEL - 2: ADDITIONAL ELECTRICAL OUTLETS, REPLACE CARPET, & REMOVE FIXED SEATING

BUILDING SF
37,525 SF/ FLOOR

No. OF FLOORS
3

CONSTRUCTION TYPE
2B

SF OF WORK AREA #1 1,075 SF
SF OF WORK AREA #2 1,250 SF

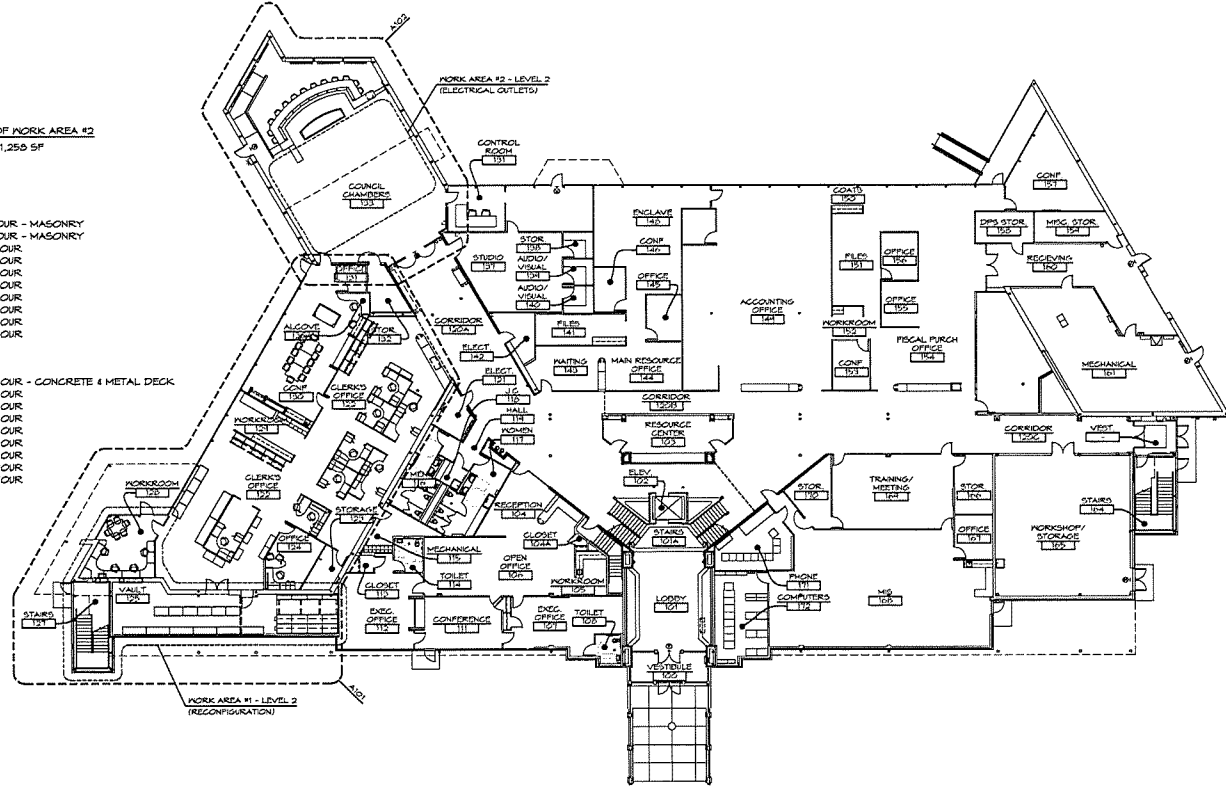
FIRE SUPPRESSION
FULLY SUPPRESSED, 100%

FIRE RATINGS - WALL

| | |
|----------------------|------------------|
| VAULT (125) | 1 HOUR - MASONRY |
| STAIR (127) | 1 HOUR - MASONRY |
| WORKROOM (128) | 0 HOUR |
| CLERK'S OFFICE (122) | 0 HOUR |
| OFFICE (124) | 0 HOUR |
| STORAGE (129) | 0 HOUR |
| WORKROOM (124) | 0 HOUR |
| CONF. ROOM (130) | 0 HOUR |
| OFFICE (131) | 0 HOUR |
| COUNCIL CHAMB. (139) | 0 HOUR |

FIRE RATINGS - FLOOR/CEILING

| | |
|----------------------|--------------------------------|
| VAULT (125) | 0 HOUR - CONCRETE & METAL DECK |
| WORKROOM (128) | 0 HOUR |
| CLERK'S OFFICE (122) | 0 HOUR |
| OFFICE (124) | 0 HOUR |
| STORAGE (129) | 0 HOUR |
| WORKROOM (124) | 0 HOUR |
| CONF. ROOM (130) | 0 HOUR |
| OFFICE (131) | 0 HOUR |
| COUNCIL CHAMB. (139) | 0 HOUR |



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| NO. | DESCRIPTION | DATE |
|-----|-------------|------------|
| 6 | | |
| 5 | | |
| 4 | | |
| 3 | FOR BIDS | 10/14/2021 |
| 2 | FOR PERMITS | 09/13/21 |
| 1 | PERMIT SET | 09/07/21 |

CITY OF ROCHESTER HILLS CITY HALL
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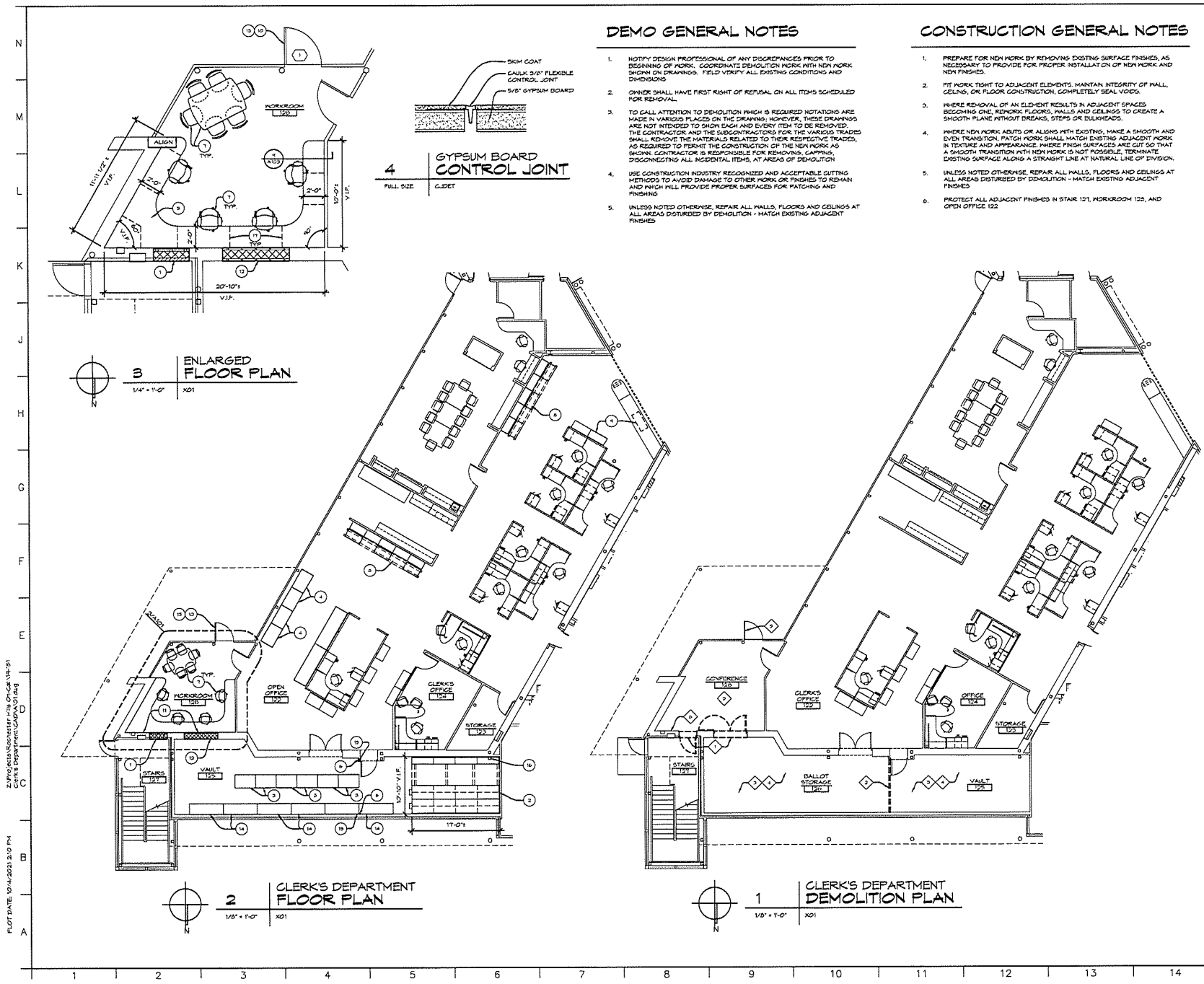
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COMPOSITE LOWER LEVEL PLAN & CODE/ PROJECT DATA

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| PROJECT NO. | 14-151 |
| DATE | OCTOBER 4, 2021 |
| DRAWN | BNR |
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6002

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| CAD FILE NO. | 6002.dwg |
| SCALE | 1/16" = 1'-0" |
| SHEET | 2 OF 4 |

EXISTING ARCHITECTURE BY: B. COVATTA/BNR
 CIVIL ENGINEERING: GUYSON/BNR
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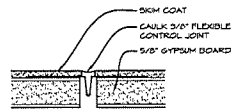


DEMO GENERAL NOTES

1. NOTIFY DESIGN PROFESSIONAL OF ANY DISCREPANCIES PRIOR TO BEGINNING OF WORK. COORDINATE DEMOLITION WORK WITH NEW WORK SHOWN ON DRAWINGS. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
2. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL ITEMS SCHEDULED FOR REMOVAL.
3. TO CALL ATTENTION TO DEMOLITION WHICH IS REQUIRED NOTATIONS ARE MADE IN VARIOUS PLACES ON THE DRAWINGS; HOWEVER, THESE DRAWINGS ARE NOT INTENDED TO SHOW EACH AND EVERY ITEM TO BE REMOVED. THE CONTRACTOR AND THE SUBCONTRACTORS FOR THE VARIOUS TRADES SHALL REMOVE THE MATERIALS RELATED TO THEIR RESPECTIVE TRADES, AS REQUIRED TO PERMIT THE CONSTRUCTION OF THE NEW WORK AS SHOWN. CONTRACTOR IS RESPONSIBLE FOR REMOVING, LAPPING, DISCONNECTING ALL INCIDENTAL ITEMS, AT AREAS OF DEMOLITION.
4. USE CONSTRUCTION INDUSTRY RECOGNIZED AND ACCEPTABLE CUTTING METHODS TO AVOID DAMAGE TO OTHER WORK OR FINISHES TO REMAIN AND FINISH SHALL PROVIDE PROPER SURFACES FOR PATCHING AND FINISHING.
5. UNLESS NOTED OTHERWISE, REPAIR ALL WALLS, FLOORS AND CEILINGS AT ALL AREAS DISTURBED BY DEMOLITION - MATCH EXISTING ADJACENT FINISHES.

CONSTRUCTION GENERAL NOTES

1. PREPARE FOR NEW WORK BY REMOVING EXISTING SURFACE FINISHES, AS NECESSARY TO PROVIDE FOR PROPER INSTALLATION OF NEW WORK AND NEW FINISHES.
2. FIT WORK TIGHT TO ADJACENT ELEMENTS, MAINTAIN INTEGRITY OF WALL, CEILING, OR FLOOR CONSTRUCTION, COMPLETELY SEAL Voids.
3. WHERE REMOVAL OF AN ELEMENT RESULTS IN ADJACENT SPACES BECOMING ONE, REPAIR FLOORS, WALLS AND CEILINGS TO CREATE A SMOOTH PLANE WITHOUT BREAKS, STEPS OR BURRS.
4. WHERE NEW WORK ADJUTS OR ALIGNS WITH EXISTING, MAKE A SMOOTH AND EVEN TRANSITION. PATCH WORK SHALL MATCH EXISTING ADJACENT WORK IN TEXTURE AND APPEARANCE WHERE FINISH SURFACES ARE CUT SO THAT A SMOOTH TRANSITION WITH NEW WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG A STRAIGHT LINE AT NATURAL LINE OF DIVISION.
5. UNLESS NOTED OTHERWISE, REPAIR ALL WALLS, FLOORS AND CEILINGS AT ALL AREAS DISTURBED BY DEMOLITION - MATCH EXISTING ADJACENT FINISHES.
6. PROTECT ALL ADJACENT FINISHES IN STAIR 121, HORKROOM 122, AND OPEN OFFICE 122.



4 GYPSUM BOARD CONTROL JOINT
FULL SIZE
CLEFT

3 ENLARGED FLOOR PLAN
1/4" = 1'-0"
X01

2 CLERK'S DEPARTMENT FLOOR PLAN
1/8" = 1'-0"
X01

1 CLERK'S DEPARTMENT DEMOLITION PLAN
1/8" = 1'-0"
X01

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DEMOLITION NOTES

1. REMOVE DOOR AND FRAME ASSEMBLY
2. REMOVE WALL TO DECK ABOVE
3. REMOVE LOOSE FURNISHINGS, TURN OVER TO OWNER
4. REMOVE EXISTING FLOORING AND BASE
5. REVISE HARDWARE, RE: HARDWARE SCHEDULE
6. REMOVE SASH, RE: ELECTRICAL

CONSTRUCTION NOTES

1. INFILL DOOR OPENING WITH 4" DRICK, 2" CHJ, 1-1/2" METAL STUD, AND 5/8" GYPSUM BOARD TYPE X, FINISH TO MATCH EXISTING - UL-LM U01 - 1 HOUR
2. NEW HIGH DENSITY SHELVING - BY OTHERS
3. NEW CUSTOM ROLLING MILLWORK - BALLLOT UNIT RE: A103
4. NEW CUSTOM ROLLING MILLWORK - LOCKING CABINETS; RE: A104
5. NEW MILLWORK COUNTER, WITH P. LAM FINISH; RE: A103
6. PATCH AND REPAIR GYP. BD. AT WALL REMOVAL. 5/8" TYPE X GYPSUM BOARD, FINISH TO MATCH EXISTING.
7. NEW TABLE AND CHAIRS - BY OTHERS
8. NEW BUILDING CABINETS - BY OTHERS
9. NEW ENVELOPE CABINET - BY OTHERS
10. REVISE HARDWARE FOR FIRE EGRESS RE: HARDWARE SCHEDULE IN SPECS
11. PATCH AND REPAIR WALL AT REMOVALS; RE: ELEC.
12. INFILL DOORS WITH 10" CHJ, 1-1/2" METAL STUD, AND 5/8" GYPSUM BOARD TYPE X - UL-LM U01 - 1 HOUR
13. ADJUST DOOR FOR SMOOTH OPERATION
14. SHELVING, BY OWNER
15. CONTROL JOINT IN GYP. BD. WALL, RE: 4/A101
16. EXPOSED COLUMN TO REMAIN
17. COUNTER SUPPORT ANGLES, RE: 4/A104 + SPECS

| NO. | DESCRIPTION | DATE |
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| 3 | FOR BIDS | 10/14/2021 |
| 2 | FOR PERMITS | 08/13/21 |
| 1 | PERMIT SET | 08/07/21 |

CITY OF ROCHESTER HILLS CITY HALL
CLERK'S DEPARTMENT & COUNCIL CHAMBERS
1000 ROCHESTER HILLS DR.
ROCHESTER HILLS, MI 48304

DRAWING TITLE
CLERK'S DEPARTMENT DEMOLITION PLAN AND FLOOR PLAN

| | |
|-------------|-----------------|
| PROJECT NO. | 14-151 |
| DATE | OCTOBER 4, 2021 |
| DRAWN | BNR |
| CHECKED | JSH |

A101

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| DAD FILE NO. | A101.dwg |
| SCALE | 1/8" = 1'-0" |
| SHEET | 3 OF 9 |

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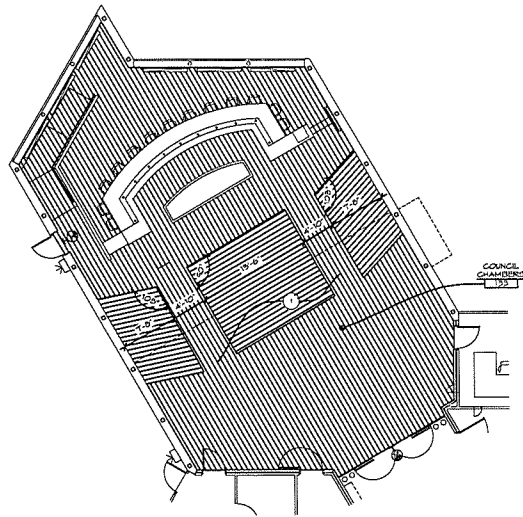
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 CLIENT: DEPARTMENT OF PUBLIC WORKS

DEMO GENERAL NOTES

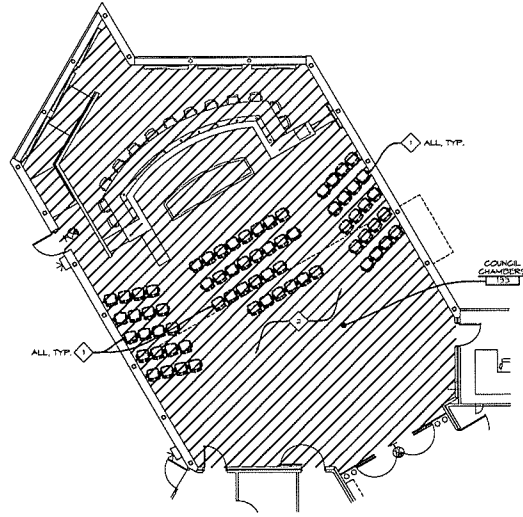
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4. USE CONSTRUCTION INDUSTRY RECOGNIZED AND ACCEPTABLE CUTTING METHODS TO AVOID DAMAGE TO OTHER WORK OR FINISHES TO REMAIN AND WHICH WILL PROVIDE PROPER SURFACES FOR PATCHING AND FINISHING.
5. UNLESS NOTED OTHERWISE, REPAIR ALL WALLS, FLOORS AND CEILING AT ALL AREAS DISTURBED BY DEMOLITION - MATCH EXISTING ADJACENT FINISHES.

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2 COUNCIL CHAMBERS FLOOR PLAN
 1/8" = 1'-0"
 N01
 2,500 SF ±



1 COUNCIL CHAMBERS DEMOLITION PLAN
 1/8" = 1'-0"
 N01
 2,500 SF ±

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DEMOLITION NOTES

1. REMOVE FIXED CHAIRS
 2. REMOVE ALL EXISTING CARPET
- DEMO CARPET

CONSTRUCTION NOTES

1. INSTALL NEW CARPET, RE-SPEC. MATCH PATTERN INDICATED DIRECTION OF THE CARPET'S LINEAR PATTERN FOR CARPET INSTALLATION. CARPET PATTERN IS TO ROTATE AT SEATING AREAS.

| NO. | DESCRIPTION | DATE |
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| 6 | | |
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| 3 | FOR BIDS | 10/14/2021 |
| 2 | FOR PERMITS | 08/13/21 |
| 1 | PERMIT SET | 06/07/21 |

CITY OF ROCHESTER HILLS CITY HALL
CLERK'S DEPARTMENT & COUNCIL CHAMBERS
 1000 ROCHESTER HILLS DR.
 ROCHESTER HILLS, MI 48304

DRAWING TITLE
COUNCIL CHAMBERS DEMOLITION PLAN AND FLOOR PLAN

| | |
|-------------|-----------------|
| PROJECT NO. | 14-151 |
| DATE | OCTOBER 4, 2021 |
| DRAWN | ENR |
| CHECKED | JSM |

A102

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| CAD FILE NO. | A102.dwg |
| SCALE | 1/8" = 1'-0" |
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6. PROTECT ALL ADJACENT FINISHES IN STAIR 121, WORKROOM 120, AND OPEN OFFICE 122.



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DEMOLITION NOTES

1. REMOVE CEILING INDICATED EXIT SIGN AND AFFECTED CEILING TILE - SALVAGE CEILING TILE FOR POSSIBLE RE-USE. STORE EXIT SIGN FOR RELOCATION. RE: ELECTRICAL
2. REMOVE LIGHT FIXTURE. RE: ELECTRICAL
3. WALL REMOVAL. RE: A101
4. REMOVE CEILING TO THE EXTENT NECESSARY TO REMOVE WALL

CONSTRUCTION NOTES

1. PATCH AND REPAIR GYP. BD. CEILING AFTER WALL REMOVAL. FINISHES TO MATCH EXISTING
2. INSTALL NEW EXIT SIGN IN EXISTING ACOUSTIC TILE CEILING. RE: ELEC.
3. NEW LIGHTS IN SAME LOCATION AS PREVIOUS. RE: ELEC.
4. REPLACE ACOUSTICAL CEILING TILE. MATCH EXISTING. USE SALVAGED IF FEASIBLE
5. RE-INSTALLED SALVAGED EXIT SIGN. RE: ELEC.
6. PROVIDE CONTROL JOINT IN GYPSUM BOARD

LEGEND

- EMERGENCY LIGHT FIXTURE
- LINEAR LED LIGHT FIXTURE
- EXIT LIGHT
- EXISTING SUPPLY DIFFUSER
- EXISTING RETURN DIFFUSER
- DAMAGED CEILING TO BE REMOVED
- GYPSUM BOARD TO BE PATCHED AND REPLACED

| NO. | DESCRIPTION | DATE |
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| 6 | | |
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| 4 | | |
| 3 | FOR BIDS | 10/14/2021 |
| 2 | FOR PERMITS | 08/13/21 |
| 1 | PERMIT SET | 08/07/21 |

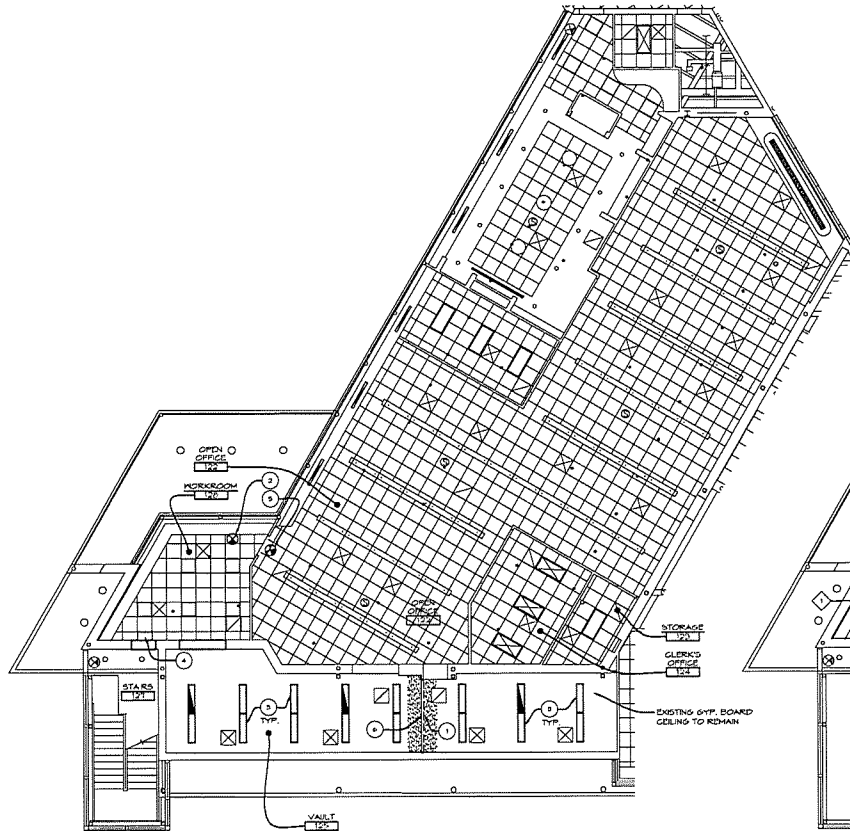
CITY OF ROCHESTER HILLS CITY HALL
CLERK'S DEPARTMENT & COUNCIL CHAMBERS
1000 ROCHESTER HILLS DR.
ROCHESTER HILLS, MI 48069

DRAWING TITLE
REFLECTED CEILING PLANS

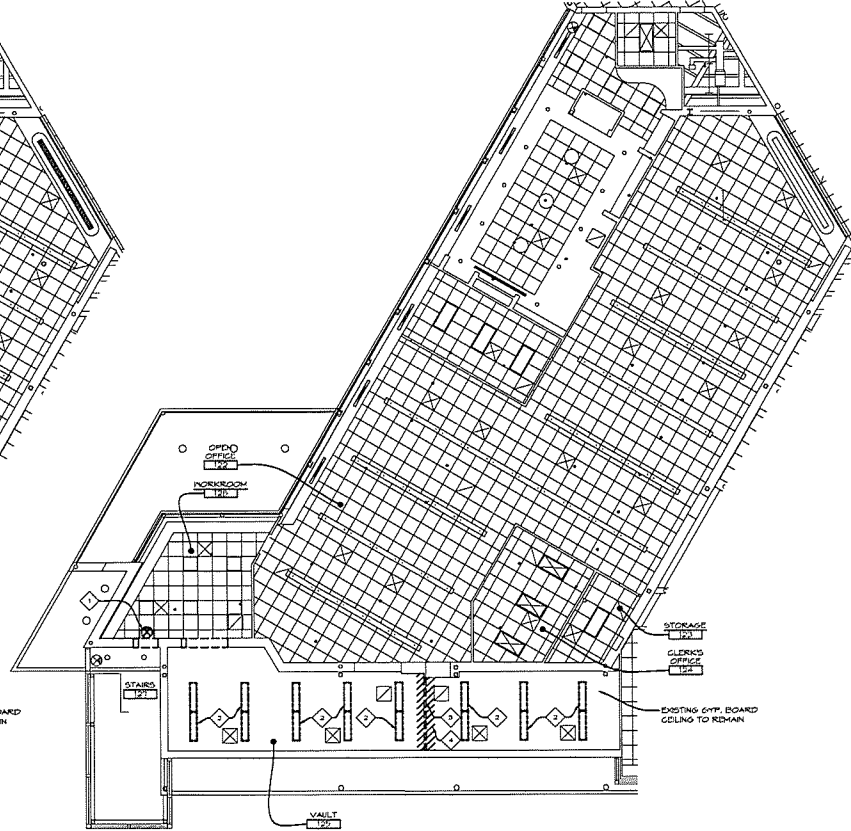
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| PROJECT NO. | 14-151 |
| DATE | OCTOBER 4, 2021 |
| DRAWN | ENR |
| CHECKED | JSH |

A103

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| DAD FILE NO. | A103.dwg |
| SCALE | 1/8" = 1'-0" |
| SHEET | 5 OF 9 |



2 CLERK'S DEPARTMENT
REFLECTED CEILING PLAN
1/8" = 1'-0" X01



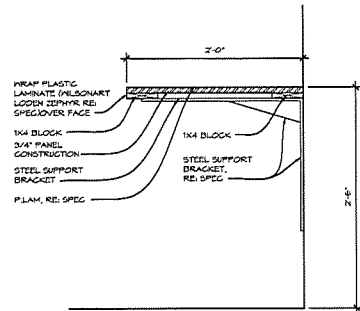
1 CLERK'S DEPT. DEMOLITION
REFLECTED CEILING PLAN
1/8" = 1'-0" X01

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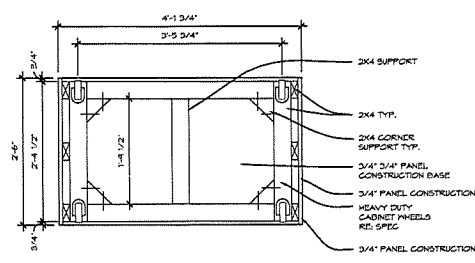
PLOT DATE: 10/14/2021 2:04 PM

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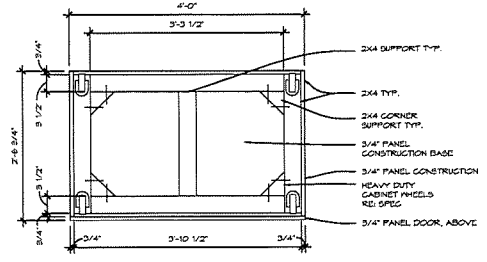
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DATE: 10/14/2021 3:11 PM
CITY OF ROCHESTER HILLS
CITY ENGINEER: CAROL ANN DUBOIS



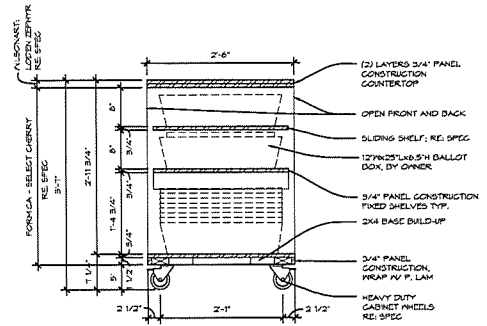
9 WORKROOM COUNTER
1 1/2" = 1'-0" HMD101



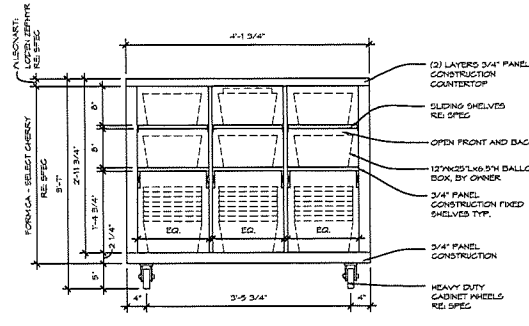
8 BALLOT UNIT BASE PLAN
1" = 1'-0" HMD104



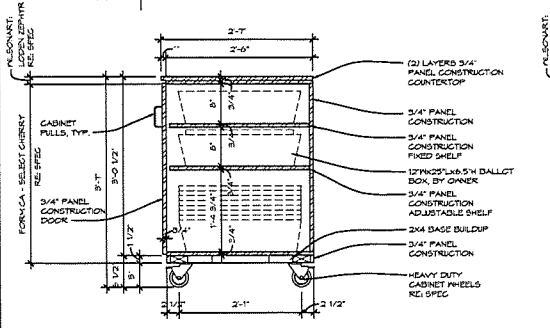
6 LOCKING CABINET BASE PLAN
1" = 1'-0" HMD104



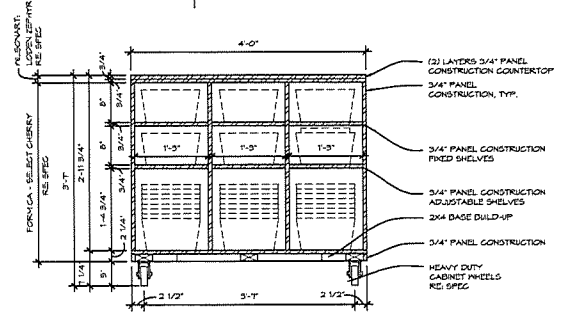
5 BALLOT UNIT SECTION
1" = 1'-0" HMD104



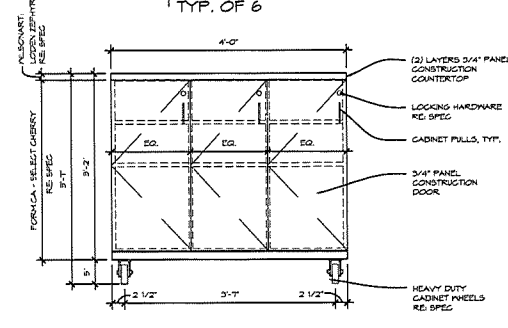
4 BALLOT UNIT ELEVATION
1" = 1'-0" HMD104
TYP. OF 6



3 LOCKING CABINET SECTION
1" = 1'-0" HMD104



2 LOCKING CABINET SECTION
1" = 1'-0" HMD104



1 LOCKING CABINET ELEVATION
1" = 1'-0" HMD104
TYP. OF 4



9100 Lapeer Rd. Suite B
Livonia, MI 48423
(810) 412-5640
www.h2aarchitects.net

NOTE:
PLASTIC LAMINATE ON ALL EXPOSED SURFACES
RE: SPEC

NOTE: PROTOTYPE REQUIRED:
CONTRACTOR IS TO CONSTRUCT AND DELIVER (1) PROTOTYPE OF EACH CABINET TYPE FOR: BALLOT UNIT AND LOCKING CABINET FOR OWNER'S TRIAL USE AND COMMENTS FOR REVISIONS OF THE REMAINDER OF THE CABINETS SHALL BE CONSTRUCTED.

| NO. | DESCRIPTION | DATE |
|-----|-------------|------------|
| 6 | | |
| 5 | | |
| 4 | | |
| 3 | FOR BIDS | 10/14/2021 |
| 2 | FOR PERMITS | 08/13/21 |
| 1 | PERMIT SET | 06/07/21 |

CITY OF ROCHESTER HILLS CITY HALL
CLERK'S DEPARTMENT & COUNCIL CHAMBERS
1000 ROCHESTER HILLS DR.
ROCHESTER HILLS, MI 48304

DRAWING TITLE
MILLWORK DETAILS

| | |
|-------------|-----------------|
| PROJECT NO. | 18-151 |
| DATE | OCTOBER 4, 2021 |
| DRAWN | ENR |
| CHECKED | JSH |

A104

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| CAD FILE NO. | A104.DWG |
| SCALE | 1" = 1'-0" |
| SHEET | 6 OF 9 |

1 2 3 4 5 6 7 8 9 10 11 12 13 14

| LIGHTING FIXTURE SCHEDULE | | | | |
|---------------------------|---|--|-------|--|
| TYPE | LAMP/SOURCE/WATTAGE | DESCRIPTION | VOLTS | MANUFACTURER(S) |
| A | 20 WATT LED SYSTEM 2000 LUMEN, 4000K 90 CRI (MIN/MAX) | 1' X 4' RECESSED LED TROFFER LIGHT FIXTURE WITH OVERLAPPING FLANGE FOR GYP CEILING. COLD ROLLED STEEL HOUSING, SATIN WHITE DIFFUSED LENS, FLUSH ALUMINUM WHITE DOOR. STANDARD 0-10V DIMMING DRIVER | 277 | 1. LITHONIA GTL SERIES 2. COOPER 3. APPROVED EQUAL |
| XA | HIGH INTENSITY LED LAMPS, 8 WATTS MAXIMUM | EDGE-LIT SINGLE FACE EXIT SIGN, BRUSHED ALUMINUM HOUSING WITH RED LETTERS ON CLEAR BACKGROUND, UV-STABLE, UL LISTED. | 277 | 1. LITHONIA LRP SERIES 2. SURE-LITES 3. LIGHTALARM |

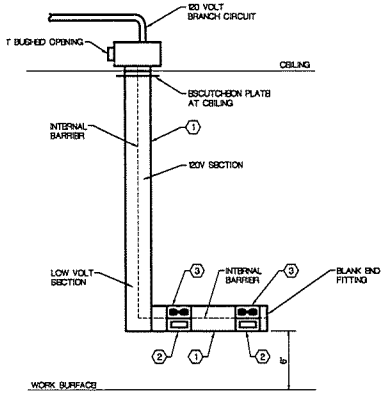
NOTE:
EXISTING FLUORESCENT LIGHT FIXTURES BEING REMOVED ARE LOCATED IN THE EXISTING GYPSUM BOARD CEILING. THEY ARE NOMINAL 1' X 4'. NEW LED LIGHT FIXTURES ARE ALSO NOMINAL 1' X 4'. CONTRACTOR TO FIELD VERIFY THE SIZE OF THE EXISTING OPENING. UTILIZE NEW LIGHT FIXTURES THAT WILL FIT WITHIN THE EXISTING FIXTURE OPENING AND COMPLETELY COVER THE OPENING WITH THE FIXTURE AND FLANGE. IF GYPSUM BOARD CEILING OPENINGS ARE REQUIRED TO BE LARGER OR SMALLER TO ACCOMMODATE THE FIXTURE SELECTED, COORDINATE OPENING REVISIONS WITH ARCHITECTURAL TRADES AND INCLUDE ALL WORK AND COSTS IN THE BD.

- 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, RELOCATED AND MAKE THE SPACES READY FOR THE INSTALLATION OF NEW SYSTEMS AND EQUIPMENT.
 - ALL ELECTRICAL DEVICES, LIGHTING, 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.
 - 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.
 - WHEN REMOVING A DEVICE LIGHT FIXTURE SWITCH, ETC. WIRING SHALL BE REMOVED COMPLETE. 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 CONSIDERED WITHIN EXISTING BUILDING CONSTRUCTION MAY BE ABANDONED IN PLACE ONCE WIRING IS REMOVED.
 - REMOVED CONDUIT, WIRE RECEPTABLES, TOGGLE SWITCHES, LIGHTING FIXTURES, ETC. SHALL NOT BE REUSED UNLESS OTHERWISE NOTED. SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND REUSE SHALL REMOVE SAME FROM THE PREMISES. REMOVED EQUIPMENT AND MATERIALS SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL ENVIRONMENTAL REQUIREMENTS.
 - ALL WALL PENETRATIONS, CONDUITS OR CONDUIT BUNDLES NO LONGER REQUIRED, REQUISITED OF THE SYSTEM SERVED, SHALL BE REMOVED COMPLETE WITH THE PENETRATION PATCHED TO MAINTAIN THE ORIGINAL FIRE RATING OR CONSTRUCTION OF THE WALL.

| ELECTRICAL SHEET INDEX | |
|------------------------|--|
| SHEET | DESCRIPTION |
| B-1 | ELECTRICAL SHEET INDEX, SYMBOL LIST, DETAILS AND LIGHTING FIXTURE SCHEDULE |
| B-2 | ELECTRICAL DEMOLITION AND NEW WORK FLOOR PLANS - CLERK'S OFFICE |
| B-3 | ELECTRICAL DEMOLITION AND NEW WORK FLOOR PLANS - COUNCIL CHAMBERS |

| ELECTRICAL SYMBOL LIST | |
|------------------------|--|
| SYMBOL | DESCRIPTION |
| SW | LIGHT SWITCH - LINE VOLTAGE |
| SL | LOW VOLTAGE SINGLE BUTTON MOMENTARY SWITCH ON-OFF |
| EC | LIGHTING CONTROLLER |
| EM | EMERGENCY LOAD TRANSFER CONTROLLER SERVING EMERGENCY LIGHTING |
| OC | LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR |
| LD | EXISTING LIGHT FIXTURE TO REMAIN |
| LD | LINEAR LED LIGHT FIXTURE TYPE AS INDICATED |
| LD | EMERGENCY LIGHT FIXTURE TYPE AS INDICATED |
| ● | EXIT LIGHT; SHaded AREA INDICATED FACE OF FIXTURE TYPE AS INDICATED |
| ▽ | TWO GANG JUNCTION BOX WITH SINGLE GANG OPENING AND CONDUIT (SHD UP FOR VOCD/SDA) |
| Ⓜ | DUPLEX RECEPTACLE |
| Ⓜ | DOUBLE DUPLEX RECEPTACLE |
| Ⓜ | FLOOR OUTLET |
| Ⓜ | PANELBOARD |
| Ⓜ | JUNCTION BOX |
| AF | ABOVE FINISHED FLOOR |
| ED | EXISTING TO REMAIN |
| OF | CIRCUIT FAULT INTERRUPTER |
| LP | LIGHTING PANEL |

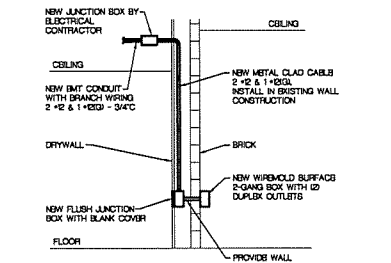
- KEY NOTES:**
- WIREMOLD 4000L 2-COMPARTMENT RACEWAY, INTERNAL BARRIER, IVORY FINISH
 - DATA OUTLET, SHOWN FOR REFERENCE ONLY. ALL WORK BY OWNER.
 - 20A, 120 VOLT DUPLEX RECEPTABLES
 - LIGHT FIXTURE DIMENSIONS TO ACCOMMODATE EXISTING CEILING OPENING. FIELD VERIFY OPENING DIMENSIONS AND CONFIRM NEW FIXTURE DIMENSIONS PRIOR TO ORDERING.



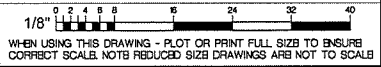
FINISHED RACEWAY DETAIL
NO SCALE
THIS DETAIL USED IN WORK ROOM #203

- POWER & SYSTEMS GENERAL NOTES:**
- REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
 - ALL CONDUIT AND WIRING SHALL BE CONCEALED IN ALL FINISHED AREAS.
 - 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.
 - AS-BUILT DRAWINGS SHALL INDICATE ACTUAL CIRCUITING FOR ALL PROJECT PANELS.
 - ALL 120 VOLT BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.
 - ALL CONDUIT SERVING WIRING 120 VOLTS OR GREATER SHALL HAVE A GROUND WIRE.
 - CIRCUIT NUMBERS INDICATED ON PLAN SERVED FROM EXISTING PANELS MAY NOT REPRESENT THE ACTUAL CIRCUIT BREAKER POLE POSITION BUT ARE SHOWN TO INDICATE LOADS TO BE GROUPOED ON THE SAME CIRCUIT.
 - LABEL ALL RECEPTABLES WITH THE PANEL AND CIRCUIT FROM WHICH THEY ARE SERVED. UTILIZE 1/2" HIGH BLACK LETTERS ON A CLEAR BACKGROUND LOCATED ON THE RECEPTACLE OR JUNCTION BOX COVERPLATE. IN ADDITION, NEATLY WRITE WITH AN INDELEBIL MARKER THE PANEL AND CIRCUIT ON THE INSIDE OF THE COVERPLATE.
 - USING AN INDELEBIL MARKER, NEATLY LABEL BY HAND, IN ALL UNFINISHED AREAS, JUNCTION BOXES TO INDICATE THE PANEL AND CIRCUITS 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.
 - METAL CLAD CABLES COMPLETE WITH CONTIGUOUS GROUND WIRE MAY BE USED IN ACCORDANCE WITH NEC REQUIREMENTS AND ELECTRICAL SPECIFICATIONS BUT NOT IN LENGTHS EXCEEDING SIX FEET.
 - ALL 120 VOLT BRANCH CIRCUITS SHALL BE 2#2 - #2 GROUND - 3/4" C SERVED FROM A 20 AMP SINGLE POLE CIRCUIT BREAKER UNLESS OTHERWISE REQUIRED.
 - ALL 120 VOLT CIRCUITS GREATER THAN 90 FEET FROM CIRCUIT BREAKER TO LAST LOAD ON CIRCUIT SHALL BE WITH #0 AWG WIRE.
 - INCLUDE ALL RACEWAYS TO SERVE VOICE AND DATA WIRING. VOICE AND DATA WIRING BY OTHERS.

- LIGHTING GENERAL NOTES:**
- REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
 - REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
 - ALL SWITCHES OR LIGHTING CONTROLLERS SHALL BE LOCATED AT A HEIGHT TO MATCH EXISTING WHICH IS APPROXIMATELY 48" AFF.
 - 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.
 - PROVIDE AS-BUILT DRAWINGS INDICATING ALL ACTUAL LIGHTING CIRCUITS.
 - REFER TO SPECIFICATIONS FOR COMPLETE LIGHTING CONTROL AND OCCUPANCY SENSOR REQUIREMENTS.
 - PROVIDE NEW OR MODIFY EXISTING BRANCH CIRCUIT WIRING AS REQUIRED TO ACCOMMODATE LIGHTING REVISIONS INDICATED ON PLAN.
 - ALL WIRING SHALL BE INSTALLED IN CONDUIT. METAL CLAD CABLE MAY BE USED ABOVE BEP BOARD PROVIDED IN ACCORDANCE WITH NEC REQUIREMENTS. ABOVE LAY-IN ACoustICAL TILE CEILING, METAL CLAD CABLE SHALL NOT BE USED IN LENGTHS GREATER THAN 6 FEET.
 - ALL EMERGENCY BRANCH CIRCUIT WIRING SHALL BE INSTALLED IN SEPARATE CONDUIT FROM THE NORMAL BRANCH CIRCUIT WIRING.
 - LOW VOLTAGE WIRING SERVING LIGHTING CONTROLS SHALL BE PLUMB RATED INSTALL. ALL VERTICAL WIRING IN CONDUIT, 1" MINIMUM HORIZONTAL WIRING MAY BE INSTALLED IN THE CEILING SPACE WITHOUT CONDUIT PROVIDED IT IS SUPPORTED ON CENTERS NOT EXCEEDING 3 FEET.
 - 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 INDELEBIL MARKER ON BOX COVER.
 - ALL 277 VOLT BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.
 - ALL CONDUIT SERVING WIRING 120 VOLTS OR GREATER SHALL HAVE A GROUND WIRE.
 - ALL 120 AND 277 VOLT BRANCH CIRCUITS SHALL BE 2#2 - #2 GROUND - 1/2" C SERVED FROM A 20 AMP SINGLE POLE CIRCUIT BREAKER UNLESS OTHERWISE REQUIRED.



NEW WALL DOUBLE DUPLEX RECEPTACLE MOUNTING DETAIL
NO SCALE



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BERBIGLIA ASSOCIATES INC.
35400 West 12 Mile Road
Farmington Hills, Michigan 48331
(248) 469-3100 • FAX (248) 469-3101
E-MAIL # 21-8509

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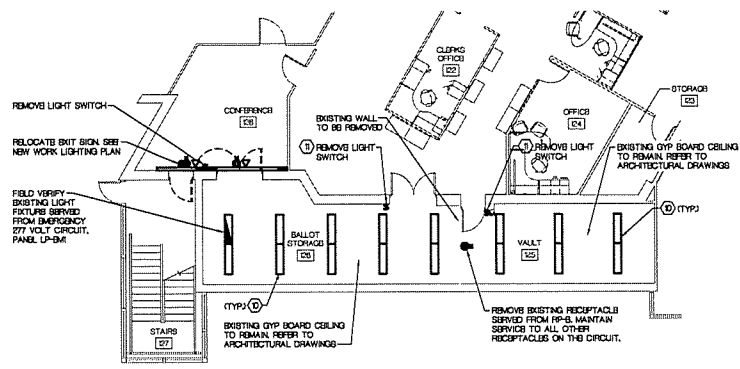
CITY OF ROCHESTER HILLS CITY HALL
CLERK'S DEPARTMENT & COUNCIL CHAMBERS
1000 ROCHESTER HILLS DR.
ROCHESTER HILLS, MI 48064

DRAWING TITLE
ELECTRICAL SHEET INDEX, SYMBOL LIST, DETAILS AND LIGHTING FIXTURE SCHEDULE

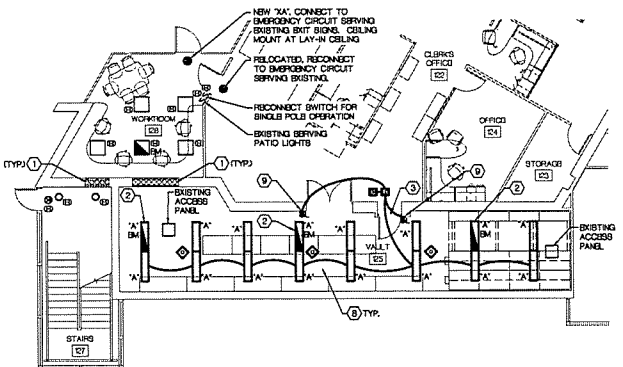
PROJECT NO. 19-151
DATE OCTOBER 4, 2021
DRAWN V.K./M.V.
CHECKED J.B.

CAD FILE NO. E-1
SCALE SHEET 7 of 9

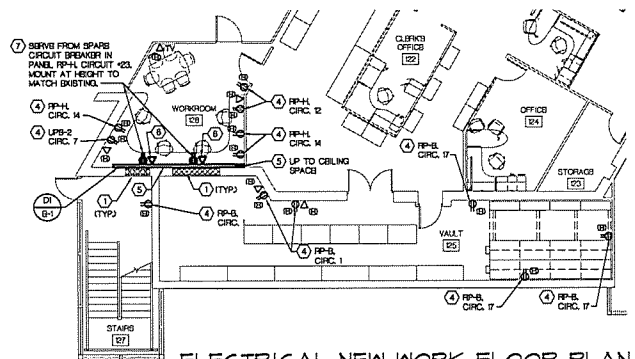
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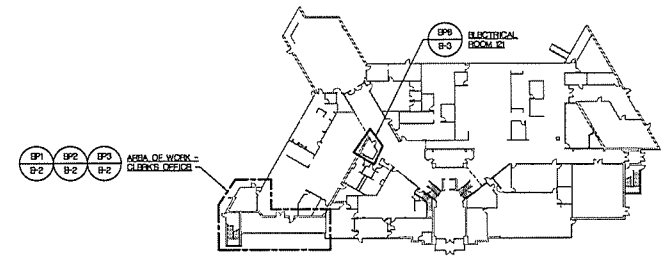
**ELECTRICAL DEMOLITION FLOOR PLAN
 CLERK'S OFFICE**
 SCALE: 1/8" = 1'-0"
 NORTH



**ELECTRICAL NEW WORK FLOOR PLAN
 LIGHTING - CLERK'S OFFICE**
 SCALE: 1/8" = 1'-0"
 NORTH



**ELECTRICAL NEW WORK FLOOR PLAN
 POWER AND SYSTEMS - CLERK'S OFFICE**
 SCALE: 1/8" = 1'-0"
 NORTH



LOWER LEVEL KEY PLAN
 NORTH
 NO SCALE

FOR GENERAL NOTES SEE SHEET B-1

- KEY NOTES:**
- NEW WALL CONSTRUCTION REFER TO ARCHITECTURAL DRAWINGS.
 - SERVE FROM 277 VOLT EMERGENCY CIRCUIT SERVING AREA. VERIFY PANEL LAYOUT IN BASEMENT MECH/ELECT ROOM. CONTROL ON AND OFF WITH ROOM NORMAL LIGHTING. UTILIZE UL LISTED #24 EMERGENCY LOAD TRANSFER DEVICE LOCATED ABOVE ADJACENT LAY-IN CEBLING. LABEL WITH BOTH NORMAL AND EMERGENCY CIRCUITS USED.
 - SERVE NEW LIGHTING FROM EXISTING 277 VOLT CIRCUIT SERVED FROM LP-A AT BASEMENT MECH/ELECT ROOM.
 - CIRCUIT FROM ORIGINAL DRAWINGS. FIELD VERIFY ACTUAL CIRCUIT.
 - WIRE/OLD GANDD, 2-COMPARTMENT RACEWAY, INTERNAL BARRIER, IVORY FINISH.
 - DATA OUTLET, SHOWN FOR REFERENCE ONLY. ALL WORK BY OWNER.
 - 20A, 20 VOLT DUPLEX RECEPTACLE.
 - LIGHT FIXTURE DIMENSIONS TO ACCOMMODATE EXISTING CEILING OPENING. FIELD VERIFY OPENING DIMENSIONS AND CONFIRM NEW FIXTURE DIMENSIONS PRIOR TO ORDERING.
 - UTILIZE EXISTING SWITCH BOX OR OPENING FOR NEW LIGHTING CONTROLS.
 - REMOVES EXISTING RECESSED FLUORESCENT LIGHT FIXTURE, ALL LIGHTING 277 VOLT SERVED FROM LP-A AT BASEMENT MECH/ELECT ROOM, FIELD LOCATE.
 - UTILIZE EXISTING SWITCH BOX OR OPENING FOR NEW LIGHTING CONTROLS.

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

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 35400 West 12 Mile Road
 Farmington Hills, Michigan 48331
 (248) 488-3100 • FAX (248) 488-3181
 BAI # 21-0508

| NO. | DESCRIPTION | DATE |
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| 1 | FOR PERMITS | 08/13/21 |
| 2 | FOR BIDS | 10/14/2021 |
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CITY OF ROCHESTER HILLS CITY HALL
CLERK'S DEPARTMENT & COUNCIL CHAMBERS
 1000 ROCHESTER HILLS DR.
 ROCHESTER HILLS, MI 48069

DRAWING TITLE
ELECTRICAL DEMOLITION AND NEW WORK FLOOR PLANS - CLERK'S OFFICE

PROJECT NO. 14-151
 DATE OCTOBER 4, 2021
 DRAWN V.K. / M.V.
 CHECKED J.B.

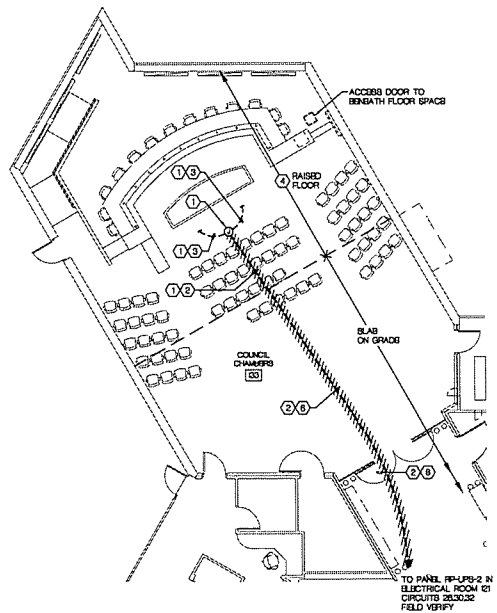
E-2
 CAD FILE NO. E-2
 SCALE SHEET 6 OF 9

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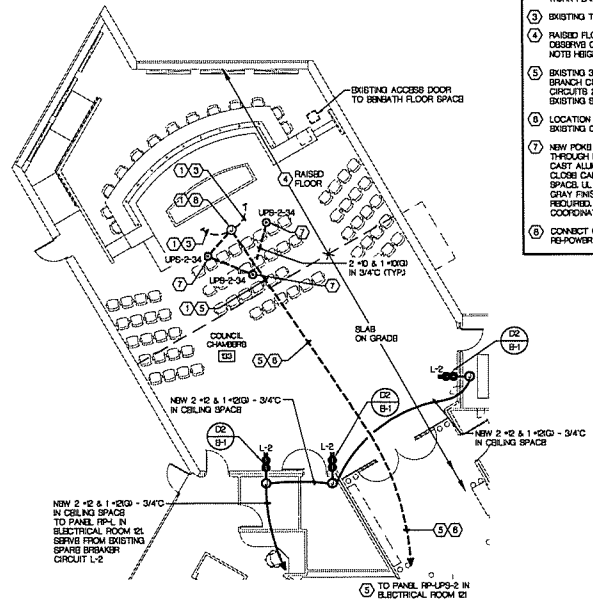
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W:\Projects\1000\1000-6000-Rochester Hills City Hall
C:\Users\jmc\OneDrive\Documents\1000-6000-Rochester Hills City Hall.dwg

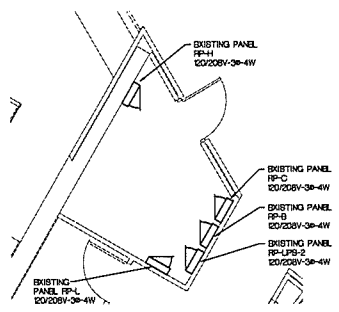
PLOT DATE: 10/02/2021 10:23 AM



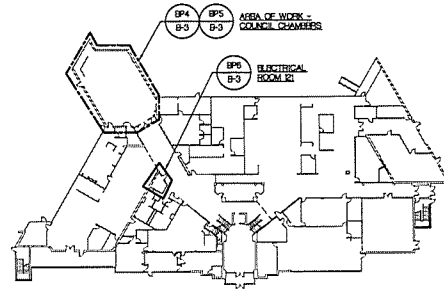
ELECTRICAL DEMOLITION FLOOR PLAN
COUNCIL CHAMBERS
SCALE: 1/8" = 1'-0"



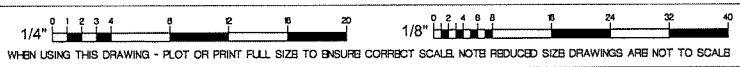
ELECTRICAL NEW WORK FLOOR PLAN
COUNCIL CHAMBERS
SCALE: 1/8" = 1'-0"



ENLARGED FLOOR PLAN
ELECTRICAL ROOM 121
SCALE: 3/4" = 1'-0"



LOWER LEVEL KEY PLAN
NO SCALE



FOR GENERAL NOTES SEE SHEET B-1

KEY NOTES:

- EXISTING UNDER RAISED FLOOR LOCATION AND ARRANGEMENT SHOWN FOR CONCEPT ONLY. FIELD VERIFY EXISTING CONDITIONS.
- EXISTING 4 #2 & 1 #12G - 3/4" TO PANEL RP-LPS-2. CIRCUITS LPS-2-28, 29, 30, 31. REMOVE WIRES COMPLETE TO PANEL RP-LPS-2. SEE NEW WORK PLAN FOR REVISIONS.
- EXISTING TO REMAIN, TO RECEPTACLES SERVING COUNCIL CHAMBERS.
- RAISED FLOOR AREA, NOTE CONFINED SPACE WITH TIGHT CONDITIONS. OBSERVE CONDITIONS THROUGH ACCESS PANEL PRIOR TO SUBMITTING BID. NOTE HEIGHT OF RAISED FLOOR REDUCES IN A WEST DIRECTION.
- EXISTING 3/4" TO REMAIN. INSTALL NEW 6 #2 #12G-3/4" H&G & 1 #12G BRANCH CIRCUIT WIRING TO 40 20A-1P BREAKERS IN PANEL RP-LPS-2. CIRCUITS 28, 30, 32, 34. PROVIDE NEW 20A-1P CIRCUIT BREAKER IN LUB OF EXISTING SPACE #04 TO SERVE NEW LOADS.
- LOCATION AND ARRANGEMENT SHOWN FOR CONCEPT ONLY. FIELD VERIFY EXISTING CONDITIONS.
- NEW POND THRU FITTING WITH (2) 20A, 25V DUPLEX RECEPTACLES. POND THROUGH FITTING TO BE FOR 8' FLOOR CORE. FITTING TO HOLD A DIS CAST ALUMINUM FLIP LID WITH FLANGE FOR INSTALLATION ON CARPET, AUTO CLOSE CABLE EXPRESS DOORS, INTERNAL PROCESSED DEVICE MOUNTING SPACE. LL LISTED INCLUDING SCRUB WATER LL, LISTING, ADA STANDARD 4.5, GRAY FINISH WIREMOLD #ATC2002Y. LOW VOLTAGE DEVICES ARE NOT REQUIRED. EXACT LOCATION OF FLOOR POND THRU FITTING TO BE COORDINATED WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- CONNECT CIRCUITS 28, 30 AND 32 TO EXISTING RECEPTACLE CIRCUITS TO RE-POWER EXISTING RECEPTACLES.

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| NO. | DESCRIPTION | DATE |
|-----|-------------|------------|
| 6 | | |
| 5 | | |
| 4 | | |
| 3 | | |
| 2 | FOR BIDS | 10/14/2021 |
| 1 | FOR PERMITS | 09/10/21 |

CITY OF ROCHESTER HILLS CITY HALL
CLERK'S DEPARTMENT & COUNCIL CHAMBERS
1000 ROCHESTER HILLS DR.
ROCHESTER HILLS, MI 48064

DRAWING TITLE
ELECTRICAL DEMOLITION AND NEW WORK FLOOR PLANS - COUNCIL CHAMBERS

PROJECT NO. 14-151
DATE OCTOBER 4, 2021
DRAWN V.K. / M.V.
CHECKED J.B.

E-3

CAD FILE NO. E-3

SCALE SHEET 1 of 1