

ELECTRICAL LEGEND

- ▶ VOICE/DATA OUTLET C/W 3/4" CONDUIT TO CEILING SPACE
- ⊕ DUPLEX RECEPTACLE
- ⊕ DUPLEX RECEPTACLE WITH DEDICATED CIRCUIT
- ⊕ DUPLEX RECEPTACLE HOSPITAL GRADE
- ⌈ JUNCTION BOX

E DENOTES EXISTING TO REMAIN
E.N. EXISTING IN A NEW LOCATION
N DENOTES NEW
RL DENOTES RELOCATE
REM DENOTES REMOVE

1	BLDG. PERMIT	MAR. 13, 2019
R	ISSUED	DATE

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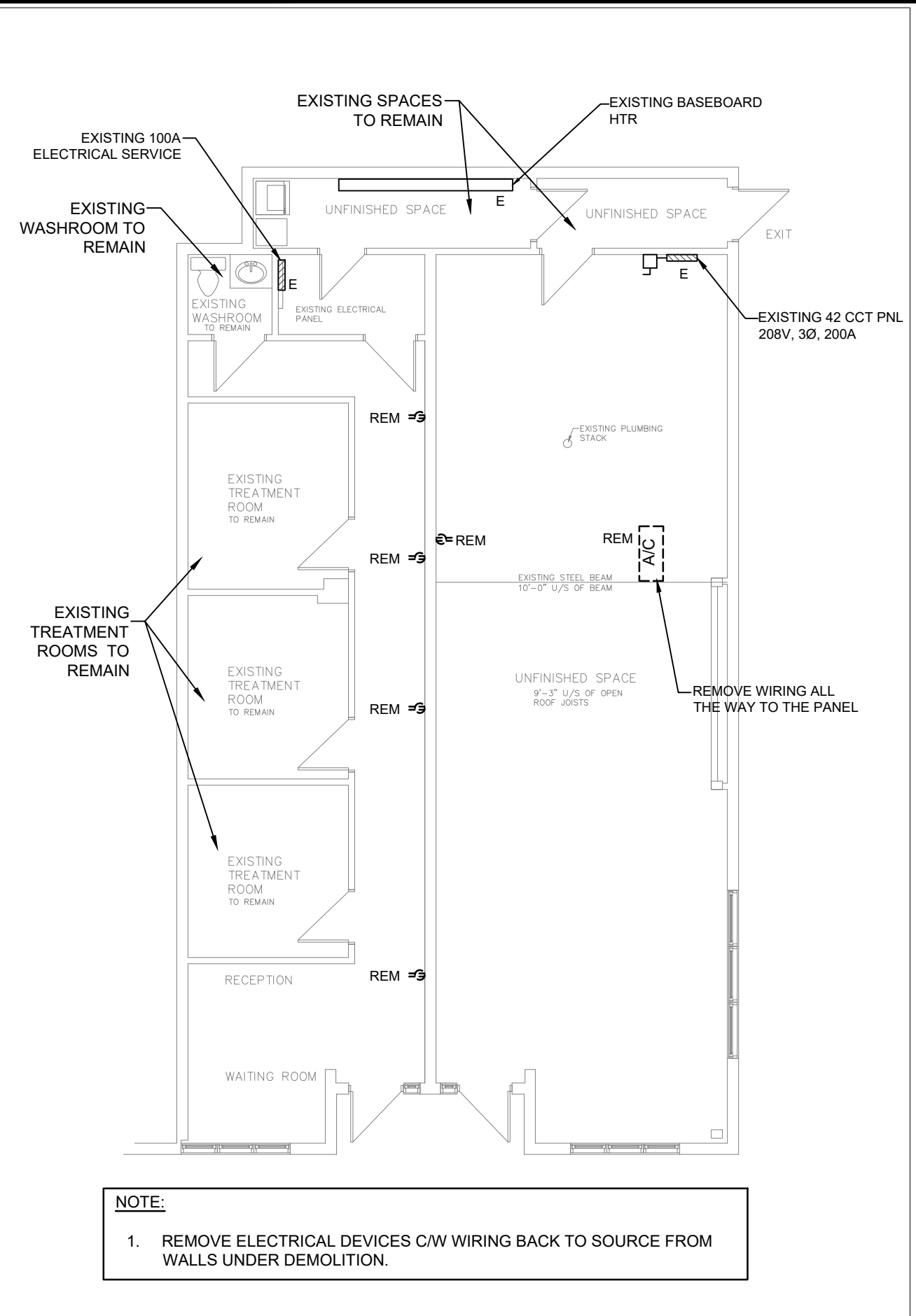
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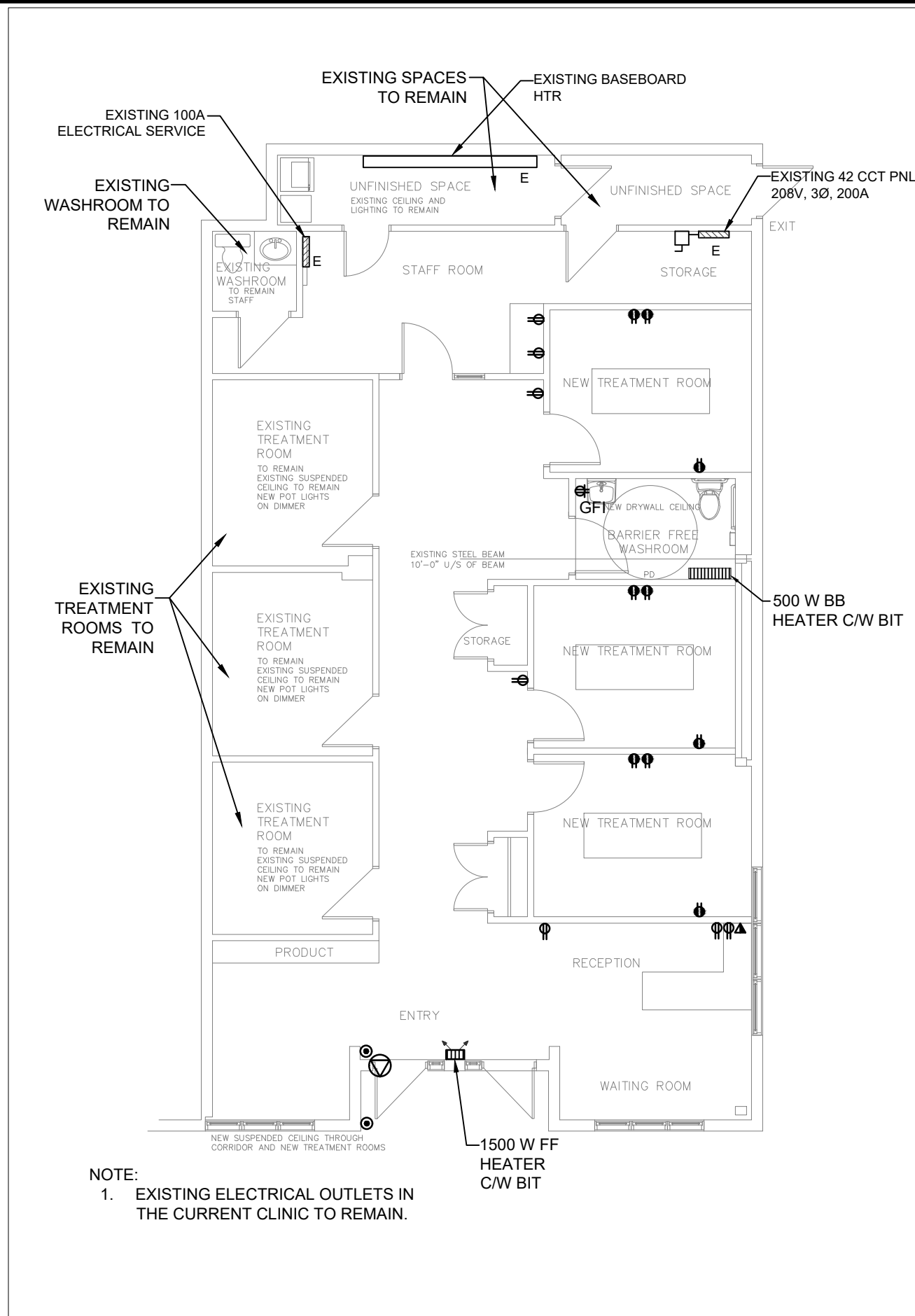
PROJECT / LOCATION
MANOTICK MASSAGE THERAPY
5524 Manotick Main Steert
OTTAWA, ONTARIO

DRAWING
ELECTRICAL LAYOUTS

DESIGNED BY: FH	CHECKED BY: MY
DRAWN BY: FH	SCALE:
PLOT DATE	DRAWING NO.: E-1



1
E-1 EXISTING / DEMOLITION LAYOUT
SCALE 1/8" = 1'-0"



2
E-1 NEW LAYOUT
SCALE 1/8" = 1'-0"

LIGHTING LEGEND

- ⌚ ONE GANG 3 WAY SWITCH
- ⌚ DOUBLE GANGE SWITCH
- ⌚ D DIMMER SWITCH
- ⌚ INCANDESCENT/HID LIGHT
- ⌚ SINGLE PHASE MOTOR EXHAUST FAN
- ⌚ 2'x4' RECESSED LIGHT FIXTURE
- ⌚ EMERGENCY BATTERY UNIT C/W TWO LED HEADS, 6W
- ⌚ EMERGENCY REMOTE LIGHT WITH 2-6W LED HEADS
- ⌚ EXIT SIGN, LED TYPE, EXTRUDED ALUMINUM "RUNNING MAN"

E DENOTES EXISTING TO REMAIN
E.N. EXISTING IN A NEW LOCATION
N DENOTES NEW
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REM DENOTES REMOVE

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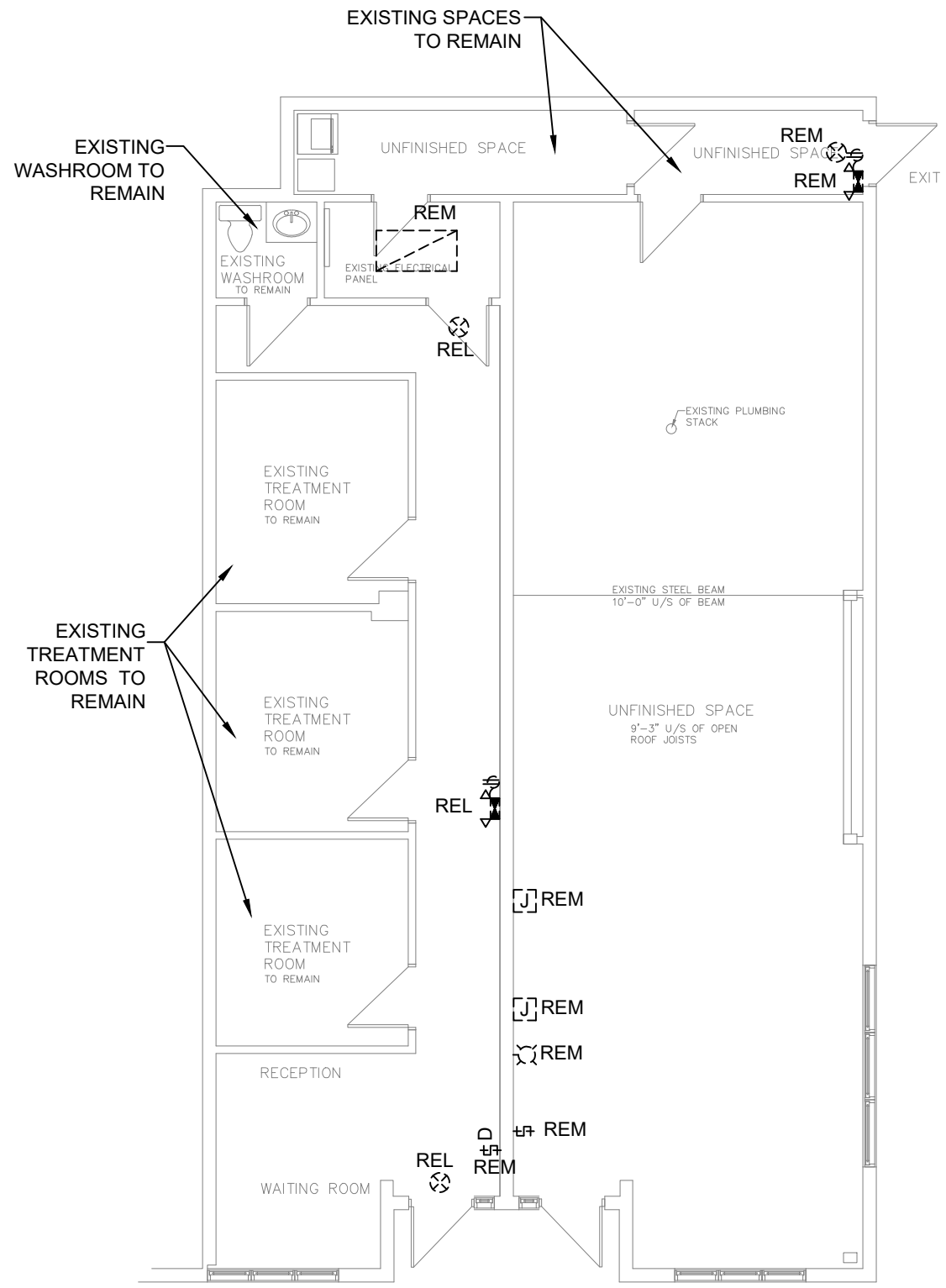
PROJECT / LOCATION
MANOTICK MASSAGE THERAPY
5524 Manotick Main Steert
OTTAWA, ONTARIO

DRAWING
LIGHTING LAYOUTS

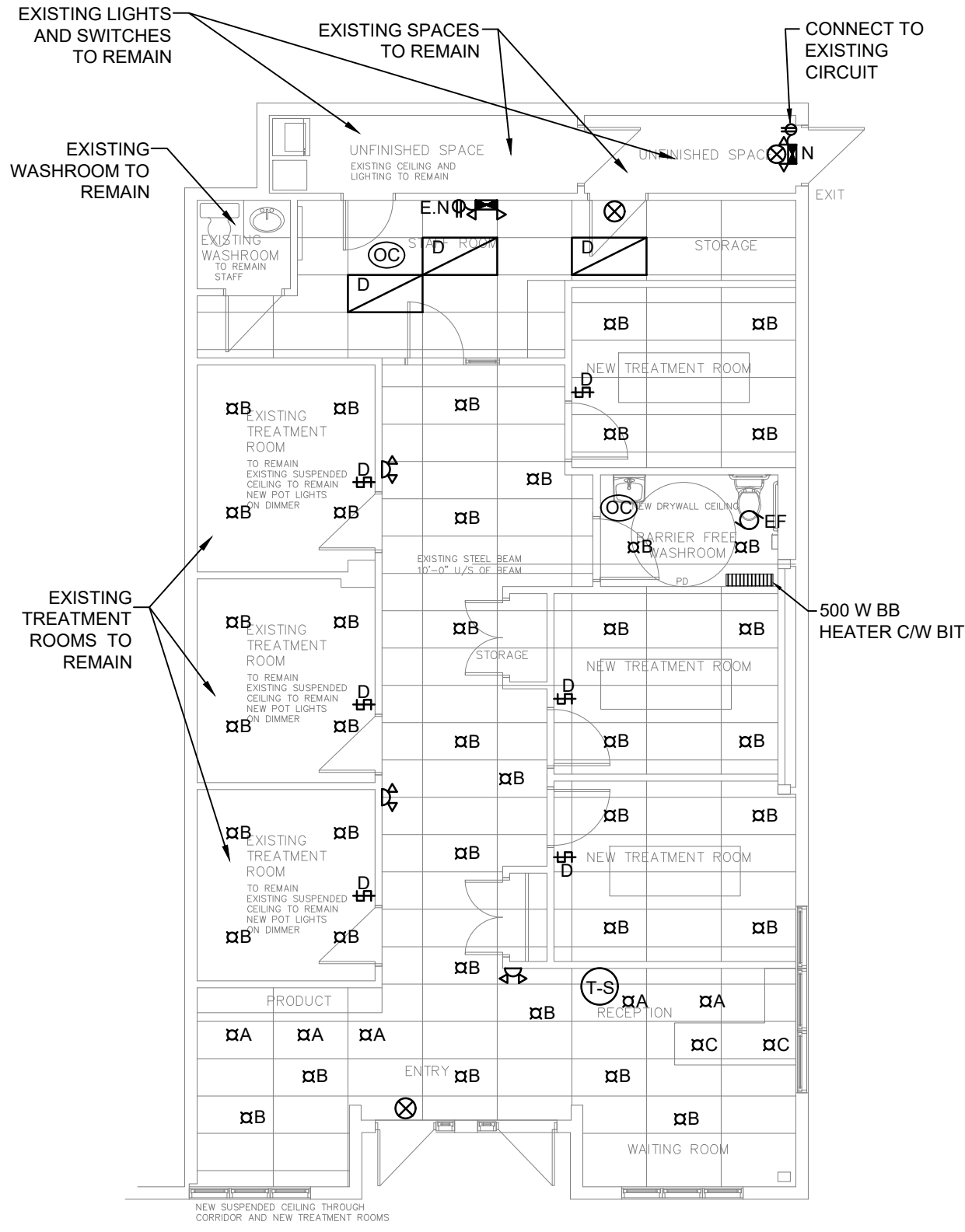
DESIGNED BY: FH CHECKED BY: MY

DRAWN BY: FH SCALE:

PLOT DATE DRAWING NO.: E-2



1 EXISTING / DEMOLITION LAYOUT
E-2 SCALE 1/8" = 1'-0"



2 NEW LAYOUT
E-2 SCALE 1/8" = 1'-0"

SPECIFICATION

1. COMPLY WITH THE REQUIREMENTS OF THE INSTRUCTION TO BIDDERS, THE GENERAL CONDITIONS OF THE CONTRACT AND THE SUPPLEMENTARY GENERAL CONDITIONS INCLUDED IN THE TENDER DOCUMENTS.
2. THE WORK AS COVERED BY THESE SPECIFICATIONS AND PLANS IS INTENDED TO COMPLY EXACTLY WITH THE LATEST RULES AND REGULATIONS OF THE INSPECTION AUTHORITIES, APPLICABLE CODES AND BYLAWS. ALL CHANGES AND ALTERATIONS TO THE CONTRACTOR'S WORK REQUIRED BY AN AUTHORIZED INSPECTOR OR ANY AUTHORITY HAVING JURISDICTION TO BE CARRIED OUT AT NO EXPENSE TO THE OWNER. IF THE CONTRACT DOCUMENTS ARE SPECIFICALLY AT VARIANCE WITH A GOVERNING REGULATION, THE CONTRACTOR SHALL NOTIFY THE CONSULTANT BEFORE INSTALLATION FOR A RULING.
3. ANY CONFLICT OR QUESTIONS THAT ARISE IN RELATION TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN DURING TENDER PERIOD SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF THIS PROCEDURE IS NOT FOLLOWED, REROUTING AND MODIFICATIONS REQUIRED TO COMPLETE THE WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR.
4. EXAMINE SITE AND LOCAL CONDITIONS AFFECTING WORK UNDER THIS DIVISION TO ENSURE THAT WORK CAN BE SATISFACTORILY CARRIED OUT WITHOUT CHANGES TO DRAWINGS. NO ALLOWANCES WILL BE MADE LATER FOR ANY EXPENSE INCURRED THROUGH FAILURE TO MAKE THIS EXAMINATION. START OF WORK WILL BE DEEMED EVIDENCE OF ACCEPTANCE OF, AND SATISFACTION WITH, EXISTING CONDITIONS.
5. OBTAIN ALL PERMITS FROM ESA (ELECTRICAL SAFETY AUTHORITY) AND PAY ALL FEES AND AND INSPECTION COSTS AND DELIVER TO THE CONSULTANT FINAL CERTIFICATES OF INSPECTION AND APPROVAL FROM ESA, BEFORE FINAL CERTIFICATE OF PAYMENT MAY BE CONSIDERED DUE. NOTIFY ESA IN SUFFICIENT TIME FOR THEM TO INSPECT WORK.
6. GUARANTEE ALL WORK FOR 12 MONTHS FROM DATE OF OCCUPANCY.
7. ENSURE THAT ALL PRECAUTIONS ARE TAKEN TO PROTECT ALL PERSONNEL FROM HAZARDS DURING THE WORK. PROTECT ALL EQUIPMENT FROM DAMAGE FROM ANY CAUSE INCLUDING WEATHER.
8. USE ONLY NEW MATERIALS, FULLY CSA CERTIFIED THAT MEET THIS SPECIFICATION IN ALL RESPECTS.
9. STRICTLY FIRST-CLASS WORKMANSHIP BY EXPERIENCED WORKMEN WILL BE RIGIDLY INSISTED UPON IN EVERY DETAIL.
10. GROUND ALL EQUIPMENT WITH APPROVED FITTINGS AND GROUND CONDUCTORS OF AMPLE CAPACITY AS REQUIRED BY THE ELECTRICAL CODE. ALL GROUND CONDUCTORS TO HAVE GREEN INSULATION AND TO BE INSTALLED IN CONDUIT.
11. DURING THE COURSE OF CONSTRUCTION AND UPON COMPLETION, REMOVE ALL RUBBISH AND WASTE RESULTING FROM THIS WORK, TO THE SATISFACTION OF CONSULTANT. CHECK, CLEAN AND REPAINT WHERE NECESSARY, ALL ELECTRICAL EQUIPMENT AND LEAVE IN A FIRST CLASS CONDITION.
12. MANUFACTURER'S INSTRUCTIONS REGARDING THE HANDLING, INSTALLING AND TESTING OF EQUIPMENT SPECIFIED HEREIN SHALL BE CONSIDERED PART OF THIS SPECIFICATION.
13. IT SHALL BE THE RESPONSIBILITY OF THIS DIVISION TO CARRY OUT ALL REQUIRED CUTTING AND PATCHING FOR COMPLETION OF THIS PORTION OF THE CONTRACT. PATCHED SURFACES ARE TO BE PRIME FINISHED READY FOR FINAL FINISH BY OTHERS.
14. PROVIDE A SET OF MARKUP "AS-BUILT" PRINTS FOR RECORD PURPOSES.
15. ALL WIRING SHALL BE COPPER #90 #12 CONDUCTOR MINIMUM. ALL RACEWAYS SHALL BE THIN WALL CONDUIT.
16. RECEPTACLES AND SWITCHES TO BE: DECORA STYLE, WHITE
17. PROVIDE TYPED ELECTRICAL PANEL LEGEND.

DESCRIPTION OF DEMOLITION WORKS:

- REMOVE FROM THE SITE ALL REDUNDANT ELECTRICAL EQUIPMENT EXCEPT AS SHOWN, OTHERWISE REUSE ONLY INDICATED EQUIPMENT. ALL OTHER WIRING AND EQUIPMENT TO BE NEW. COORDINATE ELECTRICAL SHUTDOWN WITH OWNER AND CORRECT ANY UNSCHEDULED SHUTDOWNS IMMEDIATELY.
- DISPOSE OF REMOVED MATERIALS IN ACCORDANCE WITH CODES, STANDARDS AND REGULATIONS.
- MAINTAIN EXISTING SERVICES WHICH PASS THROUGH THE RENOVATION AREA. PROVIDE ADDITIONAL WIRE AND CONDUIT (CONCEALED) AS REQUIRED TO ACCOMPLISH THIS.
- CORRECT ANY UNSCHEDULED SERVICE DISRUPTIONS IMMEDIATELY.

SEISMIC RESTRAINT SYSTEM

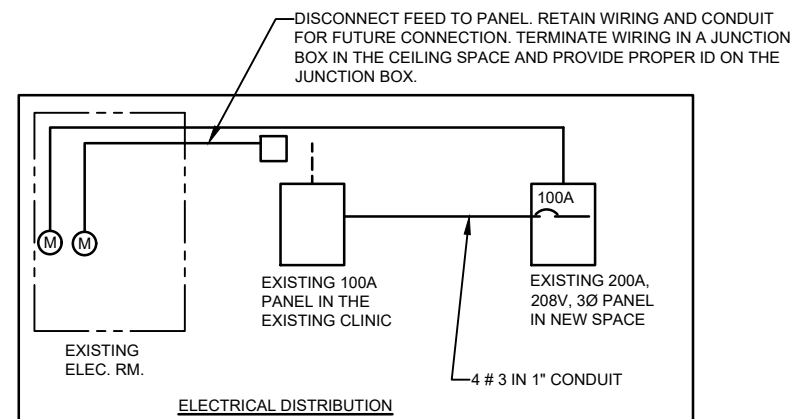
1. EACH TRADE SHALL BE RESPONSIBLE FOR ALL APPLICABLE SEISMIC RESTRAINT SYSTEMS FOR ALL SYSTEMS AND EQUIPMENT FORMING PART OF THEIR RESPECTIVE CONTRACTS. ALL TRADES SHALL COORDINATE SRS DESIGN AND IMPLEMENTATION.
2. DESIGN TO BE BY PROFESSIONAL ENGINEER SPECIALIZING IN DESIGN AND REGISTERED IN THE PROVINCE.

REVIEW OF SHOP DRAWINGS

SHOP DRAWINGS MUST BE REVIEWED AND STAMPED BY BOTH SUB-CONTRACTOR AND GENERAL CONTRACTOR. REVIEW BY ENGINEER IS ONLY FOR THE VERIFICATION OF GENERAL QUALITY AND DESIGN AND DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY FOR ENSURING THAT ALL SPACES, CAPACITIES, SPECIFICATION COORDINATION, INSTALLATION AND CONTRACTUAL REQUIREMENTS ARE MET.

ELECTRICAL NOTES:

1. CEILING SPACE IS RETURN AIR PLENUM & THEREFORE ROMEX CABLE CAN NOT BE USED IN THE CEILING.
2. ALL RECEPTACLES AND WIRING IN PATIENT CARE AREA SHALL BE HOSPITAL GRADE PER SECTION 24-100 OF ONTARIO ELECTRICAL SAFETY CODE.
3. ALL ELECTRICAL MUST CONFORM TO ONTARIO BUILDING CODES AND BASE BUILDING STANDARDS.
4. PROVIDE WATERPROOFING / FIRE PROOF SEALANT FOR ALL SERVICES PENETRATING FLOORS AND WALLS.
5. WHERE TWO OR MORE OUTLETS OR SWITCHES OCCUR IN ONE LOCATION, A GANG SHALL BE USED.
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PRE-INSPECT THE SITE TO DETERMINE THE AVAILABILITY AND ELECTRICAL SUPPLY REQUIRED TO COMPLETE THIS PROJECT.
7. THE ELECTRICAL/GENERAL CONTRACTOR SHALL DETERMINE THE LOCATION AND INSTALL ALL EMERGENCY EXIT LIGHTS AND EMERGENCY LIGHT FIXTURES AS REQUIRED BY LOCAL CODES.
8. COORDINATE WITH MECHANICAL DUCTWORK TO AVOID INTERFERENCE.
9. DIVISION 16 TO ENSURE ALL EXISTING CEILING MOUNTED JUNCTION BOXES TO BE CLOSED. PROVIDE COVERPLATES AS REQUIRED.
10. ANNOTATE CIRCUIT NUMBERS ON DEVICES AND AS BUILT DRAWINGS. MEASURE AND REPORT CIRCUIT LOAD TO THE ENGINEER. BALANCE LOADS.
11. ALL NETWORK CABLES TO BE CAT 6.
12. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF WORKS.
13. COORDINATE WORKS AND SHUT DOWN OF SERVICES WITH OTHER OCCUPANTS.
14. REMOVE ALL ELECTRICAL/DATA OUTLETS/DEVICES FROM THE WALLS UNDER DEMOLITION C/W WIRING.



Ⓞ OCCUPANCY SENSOR, WATTSTOPPER DW-103 DUAL TECHNOLOGY MULTI-WAY WALL SWITCH SENSOR COMBINES THE BENEFITS OF PASSIVE INFRARED (PIR) AND ULTRASONIC TECHNOLOGIES, AND CAN TURN LIGHTS OFF AND ON BASED ON OCCUPANCY.

LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	CAT. NO.	LAMP	VOLTAGE
A	4" DIRECTIONAL LED POT LIGHT			120
B	4" LED POT LIGHT			120
C	DECORATIVE PENDANT, 12" LED C/W 60" LONG 5/8" STEM			120
D	2'X4' LED FIXTURE, RECESSED			120



200-1716 Woodward Dr., Ottawa, Ont., K2C0P8
Tel: 613-836-3420 Fax: 613-836-5957

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PROFESSIONAL STAMP

LICENSED PROFESSIONAL ENGINEER

M. YAZDANI

MAR. 13, 2019

PROVINCE OF ONTARIO

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PROJECT / LOCATION

MANOTICK MESSAGE THERAPY

5524 Manotick Main Steert
OTTAWA, ONTARIO

DRAWING

ELECTRICAL SPECS AND NOTES

DESIGNED BY: FH	CHECKED BY: MY
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PLOT DATE	DRAWING NO.: E-3

PLUMBING LEGEND

- + — SANITARY LINE UG
- DCW — DOMESTIC COLD WATER
- DHW — DOMESTIC HOT WATER
- FE ● FIRE EXTINGUISHER
- ⊙ FLOOR DRAIN

- E DENOTES EXISTING TO REMAIN
- E.N EXISTING IN A NEW LOCATION
- N DENOTES NEW
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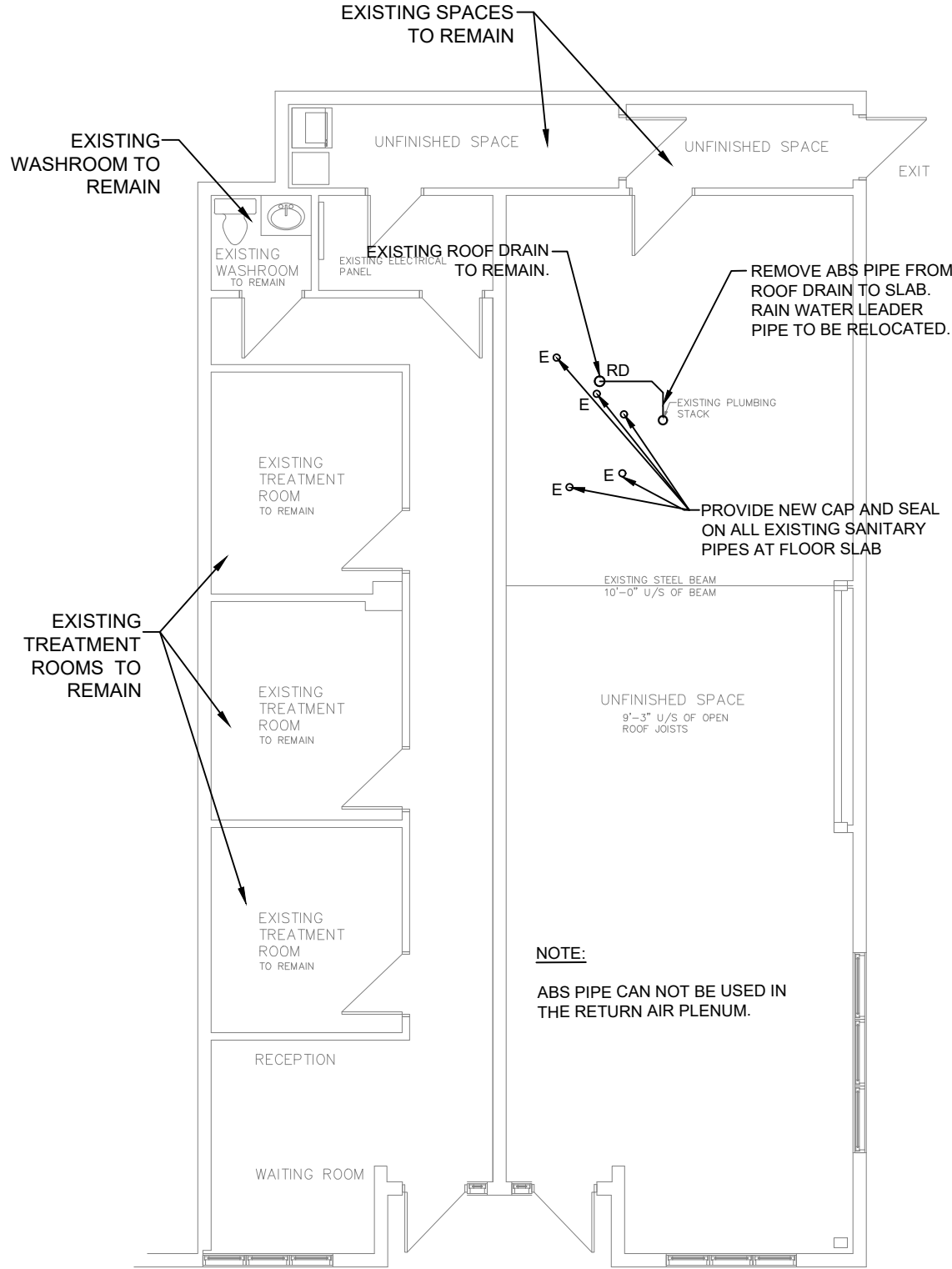
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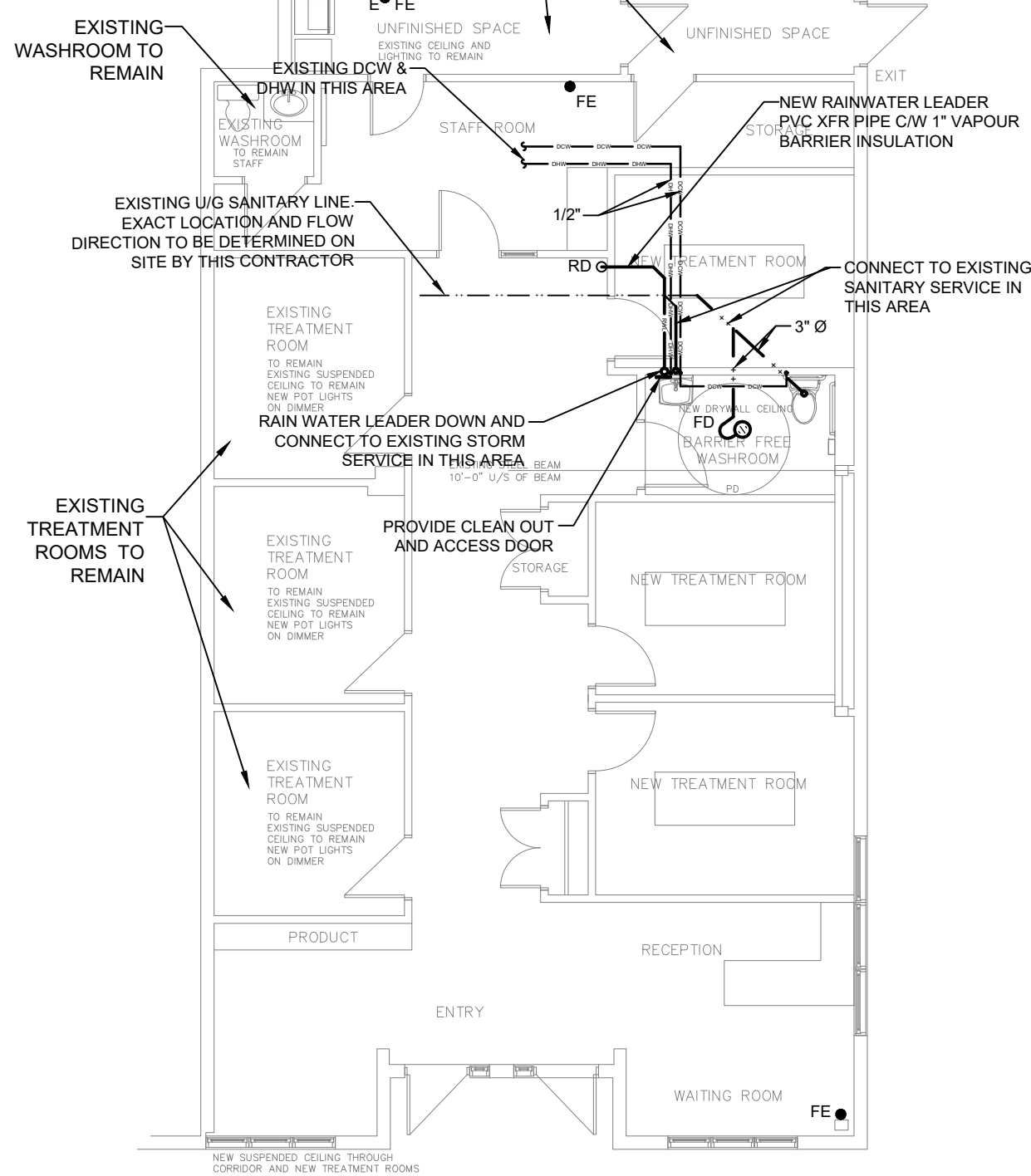
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PLUMBING LAYOUTS

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1
M-1 EXISTING / DEMOLITION LAYOUT
SCALE 1/8" = 1'-0"



2
M-1 NEW LAYOUT
SCALE 1/8" = 1'-0"

MECHANICAL SPECIFICATION

- ALL MECHANICAL/PLUMBING WORK, MATERIALS, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE Ontario Building Code, AND ALL AUTHORITIES HAVING JURISDICTION, AND BASE BUILDING STANDARDS.
- SUPPLY AND INSTALL ALL ITEMS, ARTICLES, AND MATERIALS. INCLUDE ALL LABOUR, EQUIPMENT, MATERIALS, AND TOOLS NECESSARY AND REQUIRED FOR THE COMPLETE INSTALLATION. USE ONLY NEW MATERIALS AND EQUIPMENT.
- CONTRACTOR SHALL INSPECT THE PROJECT PRIOR TO TENDER TO REALIZE THE SCOPE OF WORK INVOLVED AND TO FAMILIARIZE YOURSELF WITH THE SITE CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN THIS REGARD.
- ANY WORK NOT SHOWN ON THE DRAWINGS OR SPECIFICALLY MENTIONED IN THE SPECIFICATIONS, BUT CONSIDERED NECESSARY FOR THE COMPLETION OF THE WORK IN THE PROPER MANNER, SHALL BE PROVIDED BY THIS CONTRACTOR AT NO ADDITIONAL CHARGE.
- BE RESPONSIBLE FOR THE CARE OF THE BUILDING. DO ALL CUTTING, PATCHING, AND PAINTING REQUIRED FOR THE WORK OF THIS TRADE. WORK TO BE PERFORMED BY THE GENERAL TRADES AT THE EXPENSE OF THIS MECHANICAL CONTRACTOR. CO-ORDINATE RELEVANT COSTS AT TIME OF TENDER.
- CEILING SPACE IS RETURN AIR PLENUM. NO COMBUSTIBLE PIPING/MATERIAL IS ALLOWED. VENT PIPING IN THE CEILING MUST BE EITHER METAL OR SYSTEM XFR.
- CLEAN UP DEBRIS ON A DAILY BASIS AND UPON COMPLETION OF THE CONTRACT.
- COOPERATE WITH ALL OTHER TRADES. CO-ORDINATE ALL WORK.
- OBTAIN ALL REQUIRED PERMITS, ARRANGE FOR INSPECTION OF THE WORK BY THE INSPECTION AUTHORITY. PROVIDE FINAL CERTIFICATE.
- PAY ALL REQUIRED FEES.
- SUBMIT 5 COPIES OF SHOP DRAWINGS FOR APPROVAL OF ALL EQUIPMENT AND FIXTURES.
- PROVIDE A CERTIFICATE OF GUARANTEE OF WORKMANSHIP AND MATERIAL FOR ONE YEAR FROM DATE OF ACCEPTANCE.
- CONNECT NEW PLUMBING VENT PIPE TO THE EXISTING VENT PIPE(S) THROUGH THE ROOF. APPROXIMATE LOCATIONS ARE SHOWN.
- ALL SERVICES PENETRATING THE FLOORS MUST BE SEALED TO ENSURE WATER PROOFING AND AN ONE HOUR FIRE-RATING.
- THE PLUMBING CONTRACTOR SHALL COORDINATE ALL CONNECTIONS WITH THE NEW LOCATION OF SINKS.
- THE PLUMBING CONTRACTOR TO PROVIDE 1/2" HOT & COLD WATER SUPPLY AND 1 1/2" TRAPPED AND VENTED DRAIN TO ALL DOMESTIC SINKS.
- INSTALL A SANITARY VENT SYSTEM TO COMPLY WITH ALL APPLICABLE CODES, AND ALL AUTHORITIES HAVING JURISDICTION.
- INSTALL ONE PIECE CHROME PLATED ESCUTCHEON PLATES AT ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS, CEILINGS, AND FLOORS.

FIRE PROTECTION

- FIRE EXTINGUISHERS:
 - TYPE FE: MULTI-PURPOSE DRY CHEMICAL EXTINGUISHER, STORED PRESSURE, RECHARGEABLE TYPE WITH HOSE AND SHUT-OFF NOZZLE, ULC LABELLED FOR A, B, AND C CLASS PROTECTION. SIZE 4.5 Kg. PROVIDE COMPLETE WITH WALL BRACKET AND MAINTENANCE TAGS.
 - STANDARD OF ACCEPTANCE: WILSON & COUSINS OR CANADIAN FIRE HOSE CORPORATION.

SEISMIC RESTRAINT SYSTEM

- EACH TRADE SHALL BE RESPONSIBLE FOR ALL APPLICABLE SEISMIC RESTRAINT SYSTEMS FOR ALL SYSTEMS AND EQUIPMENT FORMING PART OF THEIR RESPECTIVE CONTRACTS. ALL TRADES SHALL COORDINATE SRS DESIGN AND IMPLEMENTATION.
- DESIGN TO BE BY PROFESSIONAL ENGINEER SPECIALIZING IN DESIGN AND REGISTERED IN THE PROVINCE.

AIR BALANCING

- DIVISION 15 SHALL INCLUDE FOR ALL BALANCING WORK AND RELATED ACTIVITIES.
- ALL INLETS, OUTLETS, GRILLES, DIFFUSERS AND REGISTERS SHALL BE ADJUSTED AND A REPORT PREPARED AND SUBMITTED (3 COPIES; RING BINDER; SCHEMATICS).
- THE AIR BALANCING CONTRACTOR SHALL INCLUDE FOR ALL RELATED ACTIVITIES FOR VERIFICATION OF THE FURNACE SYSTEM, INCLUDING SUPPLY, RETURN AND FRESH AIR VOLUMES.
- THE AIR BALANCING CONTRACTOR SHALL INCLUDE FOR ALL RELATED ACTIVITIES FOR VERIFICATION OF ALL EXHAUST FANS AND RELATED GRILLES.
- BALANCE TO ACHIEVE MINIMUM STATIC PRESSURE DROPS COMPATIBLE WITH THE SYSTEM.

PLUMBING NOTES:

- PROVIDE SANITARY, 1/2" DCW PIPE, 1/2" DHW PIPE & VENT FOR ALL PLUMBING FIXTURES WHICH ARE SHOWN ON ARCHITECTURAL DRAWINGS.
- PROVIDE FIRE STOP ON SANITARY PIPING WHERE PASSES THROUGH FIRE SEPARATION.
- FOR PLUMBING FIXTURES HEIGHT SEE ARCHITECTURAL DRAWINGS.

HVAC NOTES:

- INSULATE 8' OF EXHAUST DUCT.
- CONTRACTOR MUST VERIFY DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK.
- COORDINATE WITH ELECTRICAL TRADE TO AVOID INTERFERENCE.

DESCRIPTION OF DEMOLITION WORKS

- DISPOSE OF REMOVED MATERIALS IN ACCORDANCE WITH CODES, STANDARDS AND REGULATIONS.
- MAINTAIN EXISTING SERVICES WHICH PASS THROUGH THE RENOVATION AREA.
- CORRECT ANY UNSCHEDULED SERVICE DISRUPTIONS IMMEDIATELY.
- COORDINATE WORKS AND SHUT DOWN OF SERVICES WITH OTHER OCCUPANTS ON SECOND FLOOR.

MECHANICAL EQUIPMENT:

EF

SUPPLY AND INSTALL A WASHROOM EXHAUST FAN PROVIDING A MINIMUM EXHAUST OF 110 CFM @ 1/8" S.P. EQUAL TO GREENHECK MODEL SP-7 950 RPM 120/1/60 1.14A. EXTEND A 5"Ø RIGID DUCT TO WALL BOX. INSULATE LAST 8 FEET OF DUCT AT EXTERIOR WITH 1" THERMAL INSULATION AND VAPOUR BARRIER. ALL DUCTWORK TO BE RIGID C/W TAPED JOINTS, NO FLEXIBLE DUCT IS TO BE USED. WIRE TO A SWITCH.

GRILLES & DIFFUSERS SCHEDULE		
TYPE	MODEL	DESCRIPTION
A	EH PRICE # SCD	4 CONE 2'X2' LAY IN T-BAR CEILING
A1	EH PRICE # SCD	4 CONE 12"X12", DRYWALL CEILING
B	EH PRICE # 80-T8	EGG CRATE FACE RETURN
C		STEEL FRAMED WIRE MESH FOR RETURN AIR DUCT AT RTU's

REVIEW OF SHOP DRAWINGS

SHOP DRAWINGS MUST BE REVIEWED AND STAMPED BY BOTH SUB-CONTRACTOR AND GENERAL CONTRACTOR. REVIEW BY ENGINEER IS ONLY FOR THE VERIFICATION OF GENERAL QUALITY AND DESIGN AND DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY FOR ENSURING THAT ALL SPACES, CAPACITIES, SPECIFICATION COORDINATION, INSTALLATION AND CONTRACTUAL REQUIREMENTS ARE MET.

PLUMBING FIXTURES SHALL BE PROVIDED AS INDICATED:

TOILET - FLOOR MOUNTED PRESSURE-ASSIST TANK (BARRIER FREE DESIGN)

American Standard 'CADET ELONGATED 16-1/2" (420mm) HIGH' #2377.100 'Pressure-Assist Low Consumption' Tank Toilet, floor mounted, vitreous china, elongated syphon jet flush action bowl, fully glazed 2" (50mm) ball pass internal trapway, 10" x 12" (254mm x 304mm) large water surface, 'Speed Connect' P.A. tank complete, 1.3 gal. (6L) flush, with cast sanitary guard on bowl for china to china tank assembly, bolt caps. Provide floor flange, flange bolts, and gasket. **Centoco #820STS Seat**, elongated heavy duty solid plastic open front with cover, reinforced stainless steel check hinge, posts, washers and nuts. **McGuire #H172BV Supply**, C.P., polished, rigid horizontal integral sweat tube with V.P. combination wheel handle/loose key ball valve angle stop, escutcheon and flexible riser.

BASIN WALL HUNG (BARRIER FREE DESIGN & GENERAL USE) FOR TIGHT SPACE AREAS

American Standard 'MURRO' #0954.000 Basin, 4" (102mm) centres, 22" x 21" x 5 - 7-1/2" (559mm x 533mm x 127-191mm) deep, wall hung, vitreous china, rear overflow, for concealed arm support. **Chicago Faucets #802-V-XK Faucet**, C.P. 4" (102mm) C.C., solid cast brass lead-free body, 1/4 turn ceramic disc valve cartridges, with vandal_resistant 1.84 GPM (8L) flow aerator outlet and cast brass lever handles. **McGuire #155A Drain**, C.P. open grid. **McGuire #H170BVRB Supplies**, C.P., polished, short horizontal integral sweat tubes with V.P. combination wheel handle/loose key ball valve angle stops, escutcheons and braided flexible risers. **McGuire #8872C-17T 'p' Trap**, C.P. 17 gauge (1.5mm), 1-1/4" (32mm) and escutcheon. **Smith Series #0700-M Carrier**, with steel pipe legs, block base feet support, concealed arms and pedestal plate. (For narrow wall installation provide 'Z' type sleeve for arms.) **American Standard #0059.020 Semi-China Pedestal** to cover exposed piping as per local codes.

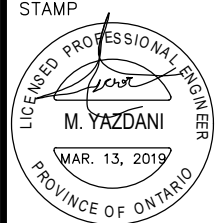
FLOOR DRAINS - FIN. AREAS - SHOWERS (MED. DUTY STRAINER)

Smith Series 2005A Floor Drain, all duco coated cast iron body, reversible flashing clamp with seepage openings and adjustable 5" (127mm) diameter nickel bronze 1/4" (6.35mm) thick strainer, secured with S.S. screws, 4" (100mm) throat on strainer. In quarry or mosaic tiled areas, provide 'B' 5" x 5" (127mm x 127mm) square nickel bronze strainer. (Where required by local code provide trap primer connection.)

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