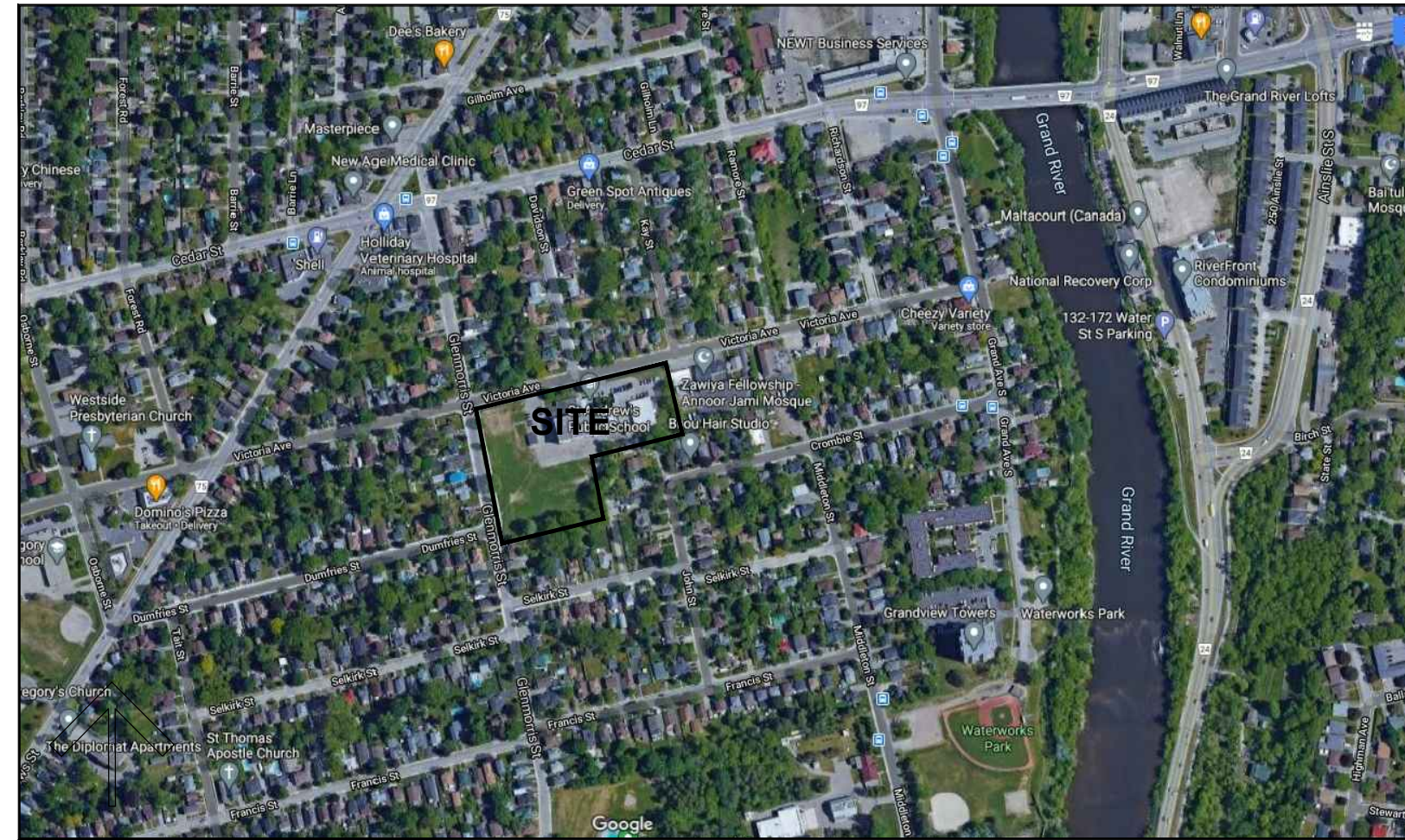




WATERLOO REGION DISTRICT SCHOOL BOARD

ST. ANDREW PUBLIC SCHOOL INTERIOR RENOVATIONS

65 Victoria Ave
Cambridge, ON. N1S 2V1
TENDER No. #7183-RW-22



SATELLITE VIEW



KEY PLAN

ONTARIO BUILDING CODE DATA MATRIX

| Firm Name: Kingsland + Architects Inc. | | Certificate of Practice Number: 4549 | |
|--|--|---|---|
| Firm Address and Contact Information: Colin J. Kingsland Partner, B.E.S., B.Arch., O.A.A., LEED™ AP | | 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1 Telephone: 416-203-7799 x 105 Facsimile: 416-203-7763 Email: C.Kingsland@KingslandPlus.com | |
| Name and Address of Project: ST. ANDREW P.S. - INTERIOR RENOVATIONS 65 Victoria Ave Cambridge, ON. N1S 2V1 | | The architect noted above has exercised responsible control with respect to design activities. The architect's seal number is the architect's BCDN. | |
| Ontario Building Code Data Matrix - Parts 3 & 9 | | OBC Reference | |
| 1 | Project Description: <input type="checkbox"/> Change of Use <input type="checkbox"/> Addition <input type="checkbox"/> Alteration | <input type="checkbox"/> Part 3 <input checked="" type="checkbox"/> Part 11 | 1.1.2. [A] 1.1.2. [2] & 9.10.1.3 |
| 2 | Major Occupancy(s): Group 'A', Division 2, Elementary School | | 3.1.2.1.(1) 9.10.2 |
| 3 | Building Area (m ²): Existing: EXISTING New: 0 Total: EXISTING | | 1.4.1.2. [A] 1.4.1.2. [A] |
| 4 | Gross Area (m ²): Existing: EXISTING New: 0 Total: EXISTING | | 1.4.1.2. [A] 1.4.1.2. [A] |
| 5 | Number of Storeys: Above Grade: 2 Below Grade: 1 | | 1.4.1.2. [A] & 3.2.1.1. 1.4.1.2. [A] & 9.10.4 |
| 6 | Number of Streets/Fire Fighter Access: EXISTING TO REMAIN | | 3.2.2.10 & 3.2.5 9.10.20 |
| 7 | Building Classification: Group 'A', Division 2 | | 3.2.2.20. -.83 9.10.2 |
| 8 | Sprinkler System Existing: <input checked="" type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating <input type="checkbox"/> not required | | 3.2.2.20. -.83 9.10.8.2 3.2.1.5. 3.2.2.17. INDEX INDEX |
| 9 | Standpipe required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 3.2.9. N/A |
| 10 | Fire Alarm required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 3.2.4. 9.10.18 |
| 11 | Water Service/Supply is adequate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | 3.2.5.7 N/A |
| 12 | High Building: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 3.2.6.1 N/A |
| 13 | Construction Restrictions <input type="checkbox"/> Comb. Permitted <input checked="" type="checkbox"/> Non-comb. required <input type="checkbox"/> Both <input type="checkbox"/> Combustible <input checked="" type="checkbox"/> Non-combustible <input type="checkbox"/> Both | | 3.2.2.20. -.83 9.10.6. |
| 14 | Mezzanine(s) Area (m ²): N/A | | 3.2.1.1.(3)-(8) 9.10.4.1. |
| 15 | Occupant Load based: <input type="checkbox"/> m ² /person <input checked="" type="checkbox"/> design of building Occupancy EXISTING Load 320 students Load 30 staff | | 3.1.17. 9.9.1.3. |
| 16 | Barrier-free Design: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | 3.8 9.5.2. |
| 17 | Hazardous Substances: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 3.3.1.2 & 3.3.1.19. 9.10.1.3.(4) |
| 18 | Required Fire Resistance Rating (FRR) Horizontal Assemblies FRR (Hours) Listed Design No. or Description (SB-3) Floors: EXISTING Hours N/A Roof: EXISTING Hours N/A Mezzanine: - Hours N/A FRR of Supporting Members Floors: EXISTING Hours N/A Roof: EXISTING Hours N/A Mezzanine: - Hours N/A | | 3.2.2.20. -.83 9.10.8. |
| 19 | Spatial Separation - Construction of Exterior Walls Wall Area of EBF (m ²) L.D. (m) L/H or H/L Permitted Max. % of Openings Proposed % of Openings FRR (Hours) Listed Design or Description Comb. Const. Comb. Const. Nonc. Cladding Non-comb. Const. | | 3.2.3.1 9.10.14. |
| | North N/A - - - EXISTING TO REMAIN - - - | | |
| | South N/A - - - EXISTING TO REMAIN - - - | | |
| | East N/A - - - EXISTING TO REMAIN - - - | | |
| | West N/A - - - EXISTING TO REMAIN - - - | | |

| 20 PLUMBING FIXTURE REQUIREMENTS: Occupant Load Student Occupant Load 320 Staff 30 Total school Occupant Load 350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|-----------------|---------------------------------|----------|-----|----------|----------|-----|-----------|--|--|------|-----|------|------|-----|------|------|-----|------|----------------|-------------------|---|---------------------------------|---|---|---|---|---|-----------|--------------|-----------------|-----------------|---------------------------------|---|---|---|---|---|-----------|-------|-----------------|---|-----------------|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|
| 3.7.4.3. (14) Students: 320 / 2 = 160 at 1 wc per 30 males = 6 320 / 2 = 160 at 1 wc per 26 females = 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7.4.7. (1) Staff - School: 30 / 2 = 15 for 10 to 24 persons of each sex Required = 2 wc's for each sex | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">Existing</th> <th colspan="3">Required</th> <th colspan="3">Proposed</th> </tr> <tr> <th>W.C.</th> <th>Ur.</th> <th>Lav.</th> <th>W.C.</th> <th>Ur.</th> <th>Lav.</th> <th>W.C.</th> <th>Ur.</th> <th>Lav.</th> </tr> </thead> <tbody> <tr> <td>Female Student</td> <td>13- (11 Demo) = 2</td> <td>-</td> <td>2+ 1Bradley (1Bradley Demo) = 2</td> <td>7</td> <td>0</td> <td>4</td> <td>6</td> <td>-</td> <td>1 Bradley</td> </tr> <tr> <td>Male Student</td> <td>6- (4 Demo) = 2</td> <td>9- (8 Demo) = 1</td> <td>2+ 1Bradley (1Bradley Demo) = 2</td> <td>6</td> <td>-</td> <td>3</td> <td>2</td> <td>3</td> <td>1 Bradley</td> </tr> <tr> <td>Staff</td> <td>7- (1 Demo) = 6</td> <td>-</td> <td>5- (1 Demo) = 4</td> <td>4</td> <td>-</td> <td>2</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>B.F.</td> <td>1</td> <td>-</td> <td>1</td> <td>-</td> <td>-</td> <td>-</td> <td>2</td> <td>-</td> <td>2</td> </tr> </tbody> </table> | | Existing | | | Required | | | Proposed | | | W.C. | Ur. | Lav. | W.C. | Ur. | Lav. | W.C. | Ur. | Lav. | Female Student | 13- (11 Demo) = 2 | - | 2+ 1Bradley (1Bradley Demo) = 2 | 7 | 0 | 4 | 6 | - | 1 Bradley | Male Student | 6- (4 Demo) = 2 | 9- (8 Demo) = 1 | 2+ 1Bradley (1Bradley Demo) = 2 | 6 | - | 3 | 2 | 3 | 1 Bradley | Staff | 7- (1 Demo) = 6 | - | 5- (1 Demo) = 4 | 4 | - | 2 | - | - | - | B.F. | 1 | - | 1 | - | - | - | 2 | - | 2 |
| | Existing | | | Required | | | Proposed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | W.C. | Ur. | Lav. | W.C. | Ur. | Lav. | W.C. | Ur. | Lav. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Female Student | 13- (11 Demo) = 2 | - | 2+ 1Bradley (1Bradley Demo) = 2 | 7 | 0 | 4 | 6 | - | 1 Bradley | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Staff | 7- (1 Demo) = 6 | - | 5- (1 Demo) = 4 | 4 | - | 2 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B.F. | 1 | - | 1 | - | - | - | 2 | - | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|--|---|--|
| Ontario Building Code Data Matrix - Parts 11 - Renovation of Existing Building | | OBC Reference |
| 11.1 | Project Description: Describe Existing Use: ELEMENTARY SCHOOL - A2 Construction index: Hazard Index: <input type="checkbox"/> Not Applicable (no change of major occupancy) | 11.2.1.1 |
| 11.2 | Alteration to Existing Building is: Basic Renovation <input checked="" type="checkbox"/> Extensive Renovation <input type="checkbox"/> | 11.3.3.1 |
| 11.3 | Reduction in Performance Level: Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage-system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes | 11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 |
| 11.4 | Compensating Construction: Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Plumbing: Plumbing fixtures replaced: Sewage System: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) | 11.4.3 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6 |
| 11.5 | Compliance Alternatives Proposed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (give number(s)) | 11.5.1 |
| 11.6 | Alternative Measures Proposed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) | 11.5.2 |

SYMBOL LEGEND

| | |
|--|---|
| | EXISTING WALL |
| | EX. WALL TO BE REMOVED |
| | NEW WALL |
| | FIRE SEPARATION |
| | WALL TYPE SEE SPECIFICATION |
| | DOOR NUMBER EXISTING DOOR |
| | DOOR NUMBER NEW DOOR |
| | BUILDING SECTION NUMBER SHEET NUMBER |
| | WALL SECTION NUMBER SHEET NUMBER |
| | DETAIL NUMBER SHEET NUMBER |
| | DETAIL DRAWING NUMBER SEE SPECIFICATION |
| | WINDOW TYPE |
| | SCREEN TYPE |
| | ROOM NAME ROOM NUMBER |
| | CEILING MATERIAL CEILING HEIGHT |

SEE SPECIFICATION FOR:
• ROOM FINISH SCHEDULE SECTION 00860

LIST OF DRAWINGS

| ARCHITECTURAL | |
|---------------|--|
| A0-0 | COVER, OBC MATRIX AND KEY PLANS |
| A2-0 | OVERALL LOWER FLOOR PLAN |
| A2-1 | PARTIAL LOWER FLOOR PLAN - DEMOLITION & NEW LAYOUT |
| A2-2 | PARTIAL LOWER FLOOR PLAN - DEMOLITION & NEW LAYOUT SECTION |
| A2-3 | PARTIAL LOWER FLOOR PLAN - REFLECTED CEILING PLAN |
| A2-4 | PARTIAL LOWER FLOOR PLAN - NEW FINISHES |
| A4-0 | INTERIOR ELEVATIONS |
| STRUCTURAL | |
| S1.0 | PARTIAL GROUND FLOOR FRAMING PLANS & SECTIONS |
| S1.1 | PARTIAL ROOF FRAMING PLANS & SECTIONS |
| MECHANICAL | |
| M101 | MECHANICAL LEGEND & SCHEDULES |
| M201 | LOWER LEVEL WASHROOM PLANS - DEMOLITION |
| M202 | LOWER LEVEL PART PLAN - DEMOLITION |
| M301 | LOWER LEVEL WASHROOM PLANS - RENOVATION |
| M302 | LOWER LEVEL PART PLAN - RENOVATION |
| M303 | LOWER LEVEL PART PLAN - GYM DEMO / RENO |
| M401 | MECHANICAL DETAILS & SPECIFICATION |
| ELECTRICAL | |
| E101 | ELECTRICAL SCHEDULES, KEYPLAN AND LEGEND |
| E201 | ELECTRICAL DEMOLITION AND RENOVATION PLANS |
| E202 | ELECTRICAL DEMOLITION AND RENOVATION PLANS |
| E301 | ELECTRICAL SPECIFICATIONS |
| E302 | ELECTRICAL SPECIFICATIONS |

| | | | |
|----------|------------|------------------------------|----------|
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Kingsland + ARCHITECTS INC.

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Toronto, Ontario M6K 3J1
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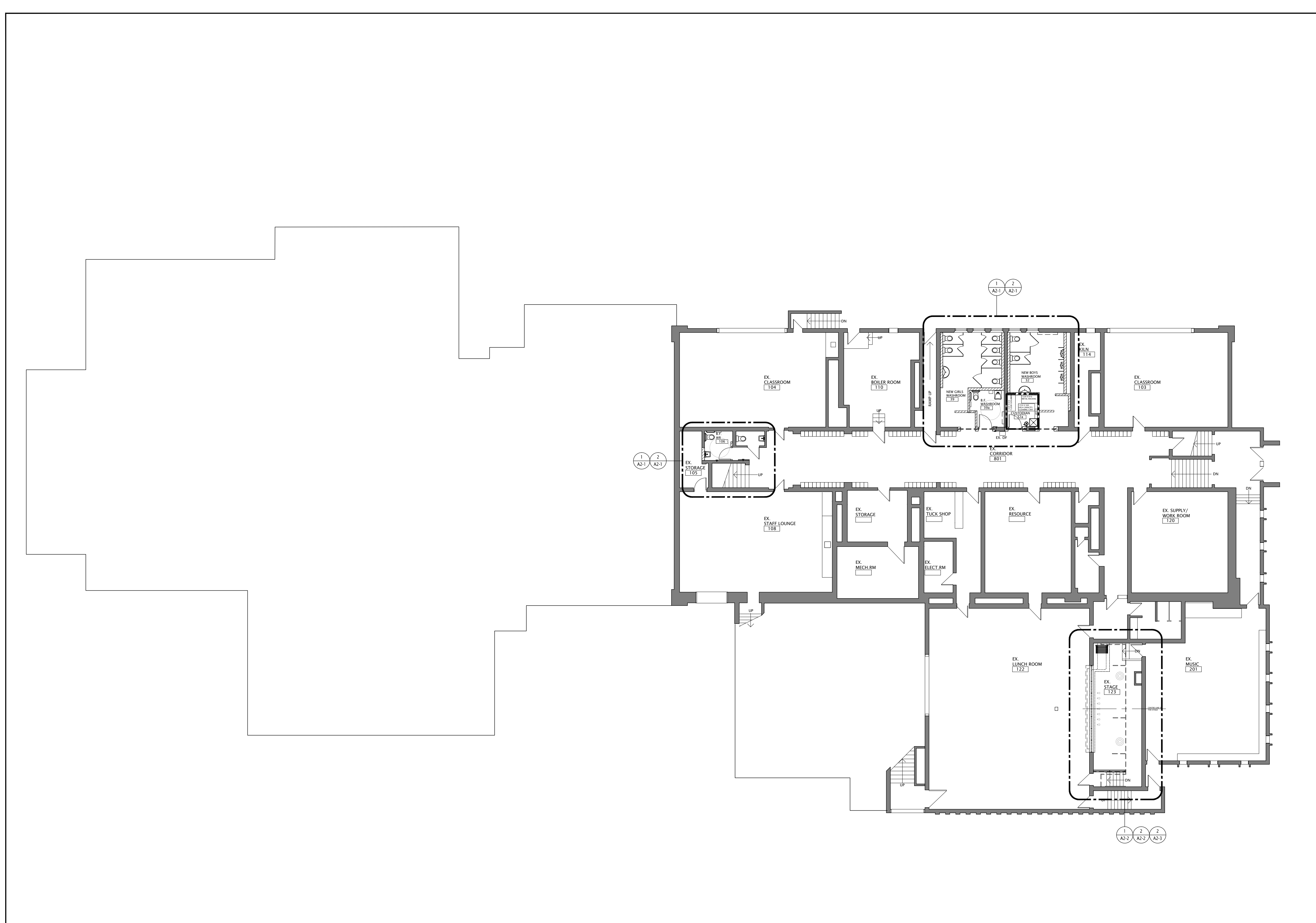


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ST. ANDREW PUBLIC SCHOOL

65 Victoria Ave
Cambridge, ON N1S 2V1

| | |
|---|----------------------------|
| DRAWING TITLE: COVER, OBC MATRIX AND KEY PLANS | |
| PROJECT NO: A20002.6 | SCALE: N.T.S. |
| DRAWN: K+ | DRAWING NO. REV. A0-0 0 |
| CHECKED: B.F. | DATE: NOV/20 |



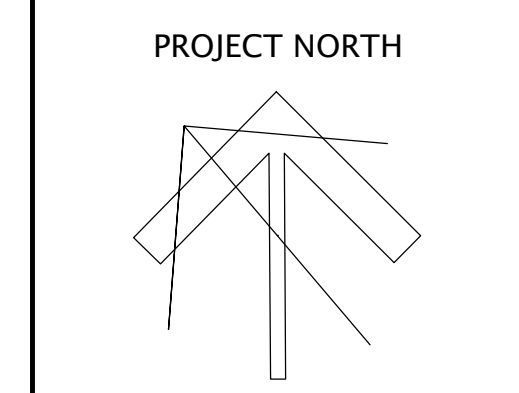
1 LOWER FLOOR PLAN
A2-0 SCALE - 1:125

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| NO. DATE: | 0 22/02/08 | ISSUED FOR PERMIT AND TENDER | REVISION |
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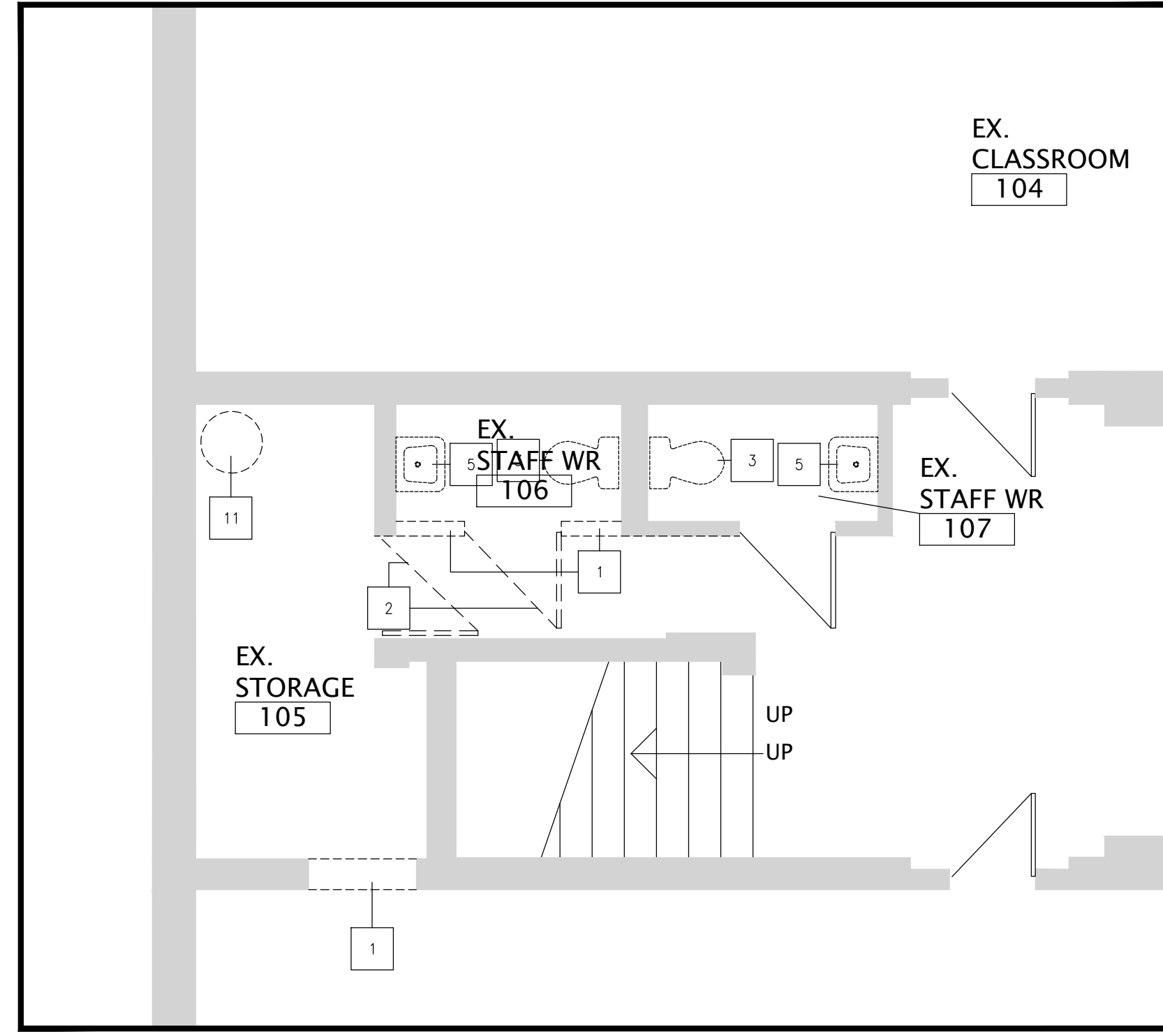
65 Victoria Ave
Cambridge, ON
N1S 2V1

DRAWING TITLE:
OVERALL LOWER
FLOOR PLAN

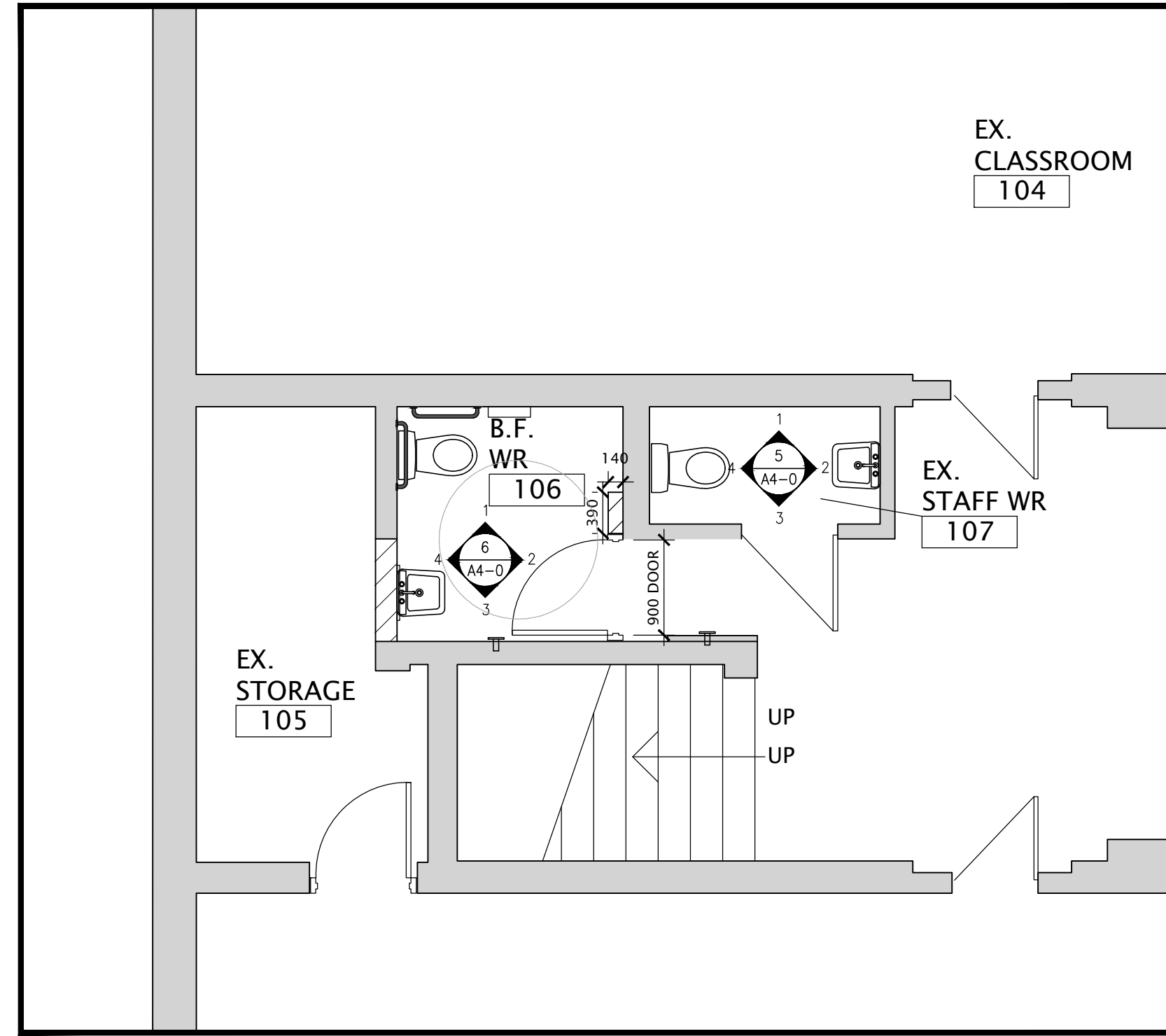
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| DRAWN: | K+ | DRAWING NO.: | A2-0 |
| CHECKED: | | REV.: | 0 |
| DATE: | NOV/20 | | |

FILES: A20002.6-A2-0 OVERALL PLAN.DWG

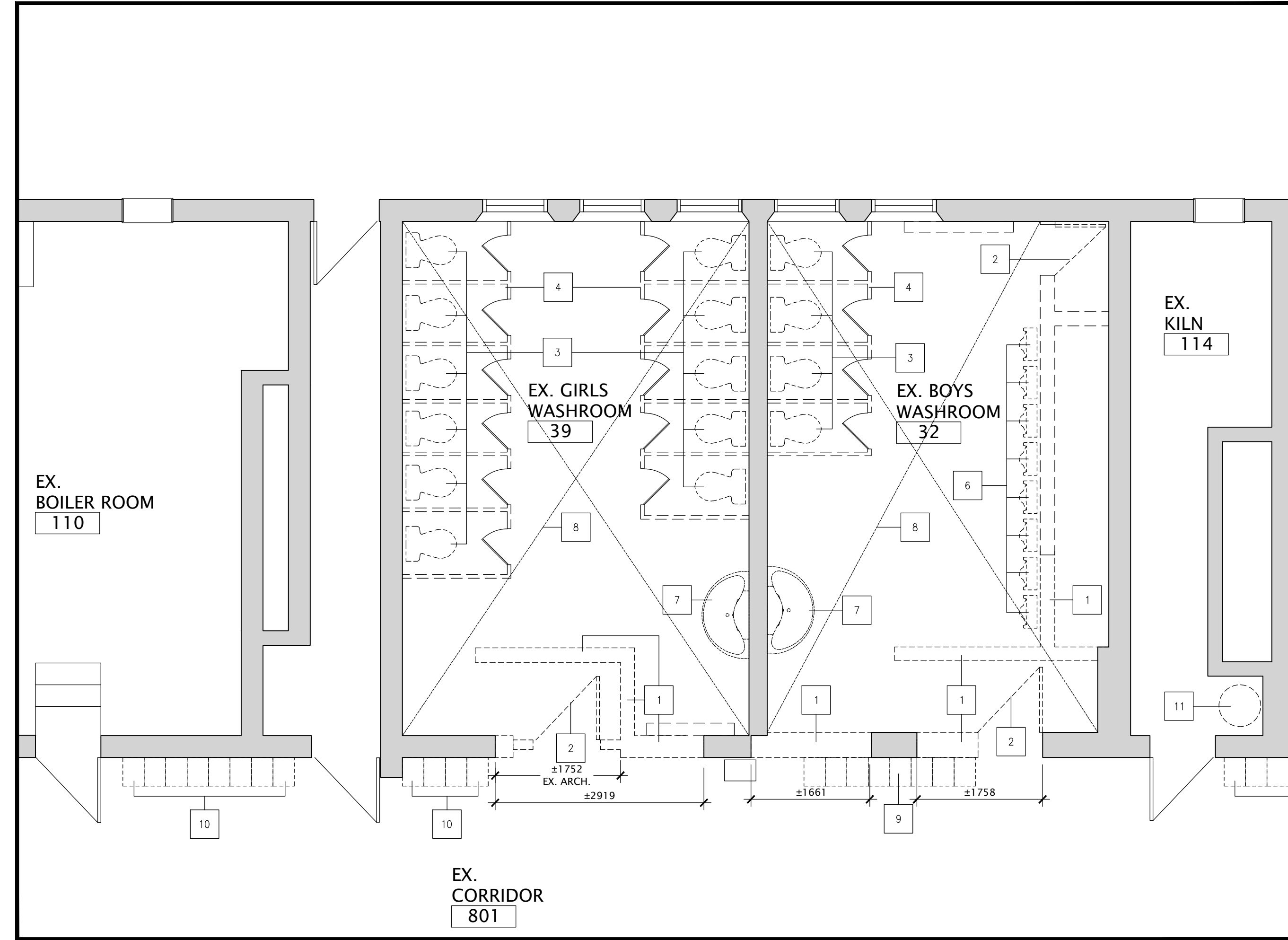
DATE PLOTTED: February 8, 2022



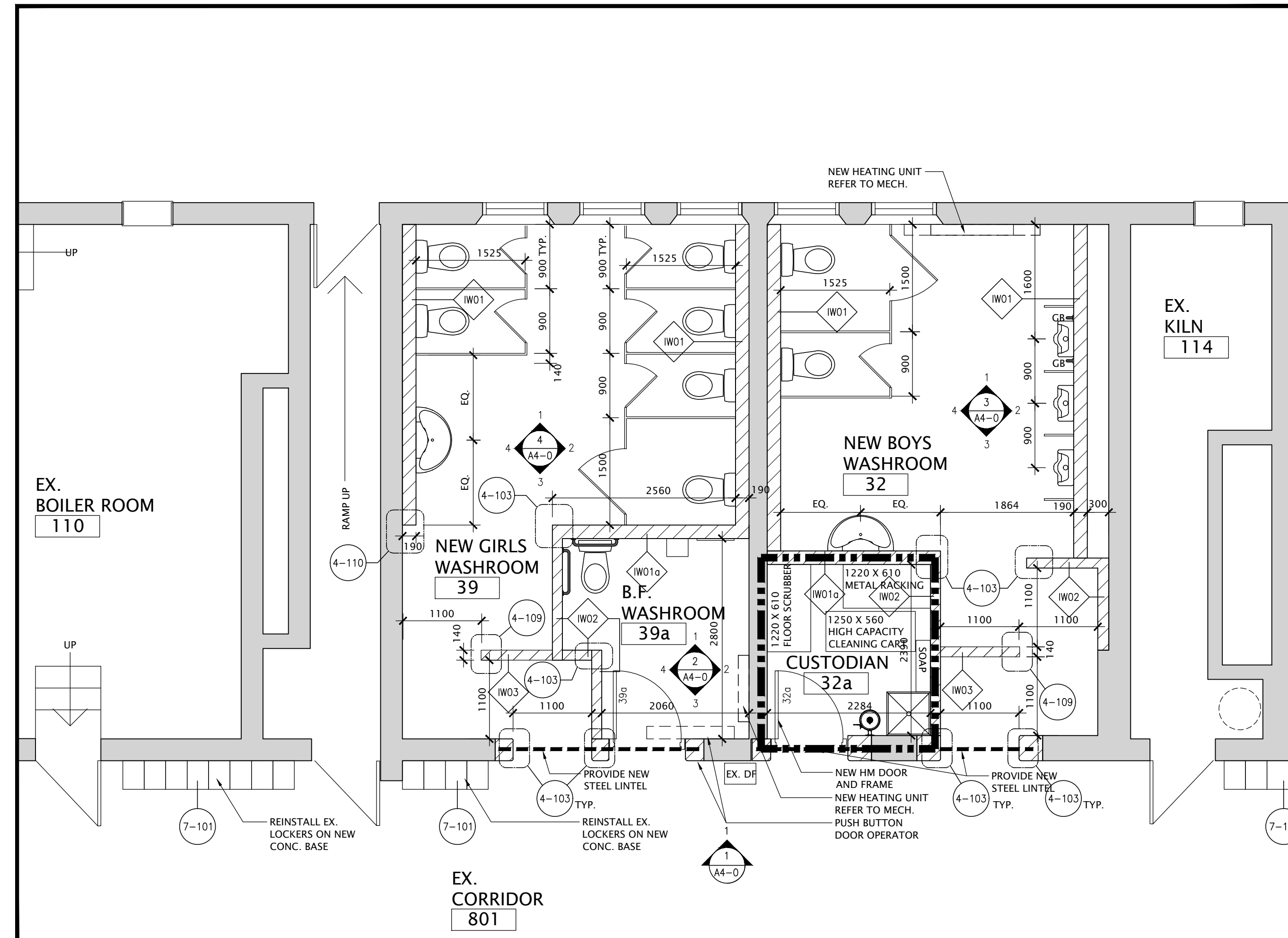
3 PARTIAL LOWER FLOOR PLAN - DEMOLITION
A2-1 SCALE: 1:50 - EXISTING STAFF WASHROOM



4 PARTIAL LOWER FLOOR PLAN - NEW LAYOUT
A2-1 SCALE: 1:50 - NEW STAFF WASHROOM



1 PARTIAL LOWER FLOOR PLAN - DEMOLITION
A2-1 SCALE: 1:50 - EXISTING BOY'S WASHROOM #



2 PARTIAL LOWER FLOOR PLAN - NEW LAYOUT
A2-1 SCALE: 1:50 - NEW BOY'S WASHROOM #

DEMOLITION NOTES

THIS DRAWING IS FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE DEMOLITION REQUIRED TO COMPLETE THE WORK. ALL DEMOLITION INCIDENTAL TO COMPLETING THE WORK IS PART OF THE WORK.

- 1 SAW CUT AND REMOVE PORTION EX. WALL AND BASE MAKE GOOD ALL SURFACE TO RECEIVE NEW FINISH
- 2 REMOVE EX. DOOR AND FRAME
- 3 REMOVE EX. WATER CLOSET REFER MECH. FOR NEW WORKS
- 4 REMOVE EX. TOILET PARTITIONS COMPLETELY
- 5 REMOVE EX. WALL SINK REFER MECH. FOR NEW WORKS
- 6 REMOVE EX. URINAL REFER MECH. FOR NEW WORKS
- 7 REMOVE EX. HAND WASH REFER MECH. FOR NEW WORKS
- 8 REMOVE EX. VINYL FLOOR AND BASE MAKE GOOD FOR NEW FLOOR
- 9 REMOVE AND RELOCATE EX. LOCKERS
- 10 REMOVE AND REINSTALL EX. LOCKERS ON NEW CONC. BASE
- 11 REMOVE AND RELOCATE EX. WATER HEATERS REFER MECH. FOR NEW LOCATION

NEW CONSTRUCTION NOTES

THIS DRAWING IS FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PATCH AND MAKE GOOD ALL AFFECTED AREAS REQUIRED TO COMPLETE THE WORK. ALL WORK INCIDENTAL TO COMPLETING THE WORK IS PART OF THE WORK.

INTERIOR WALL AND CEILING TYPE

- IW01 - 190mm CONC. BLOCK WALL TO EXTEND ±100MM ABOVE NEW CEILING
- IW02 - 190mm CONC. BLOCK WALL TO UNDERSIDE OF EXISTING FLOOR SLAB
- IW03 - 140mm CONC. BLOCK WALL TO UNDERSIDE OF EXISTING FLOOR SLAB
- IW04 - 140mm CONC. BLOCK WALL 2200mm HIGH

LEGEND

- - - FIRE SEPARATION WITH 1 HR FIRE-RESISTANCE RATING

| NO. | DATE | REVISION |
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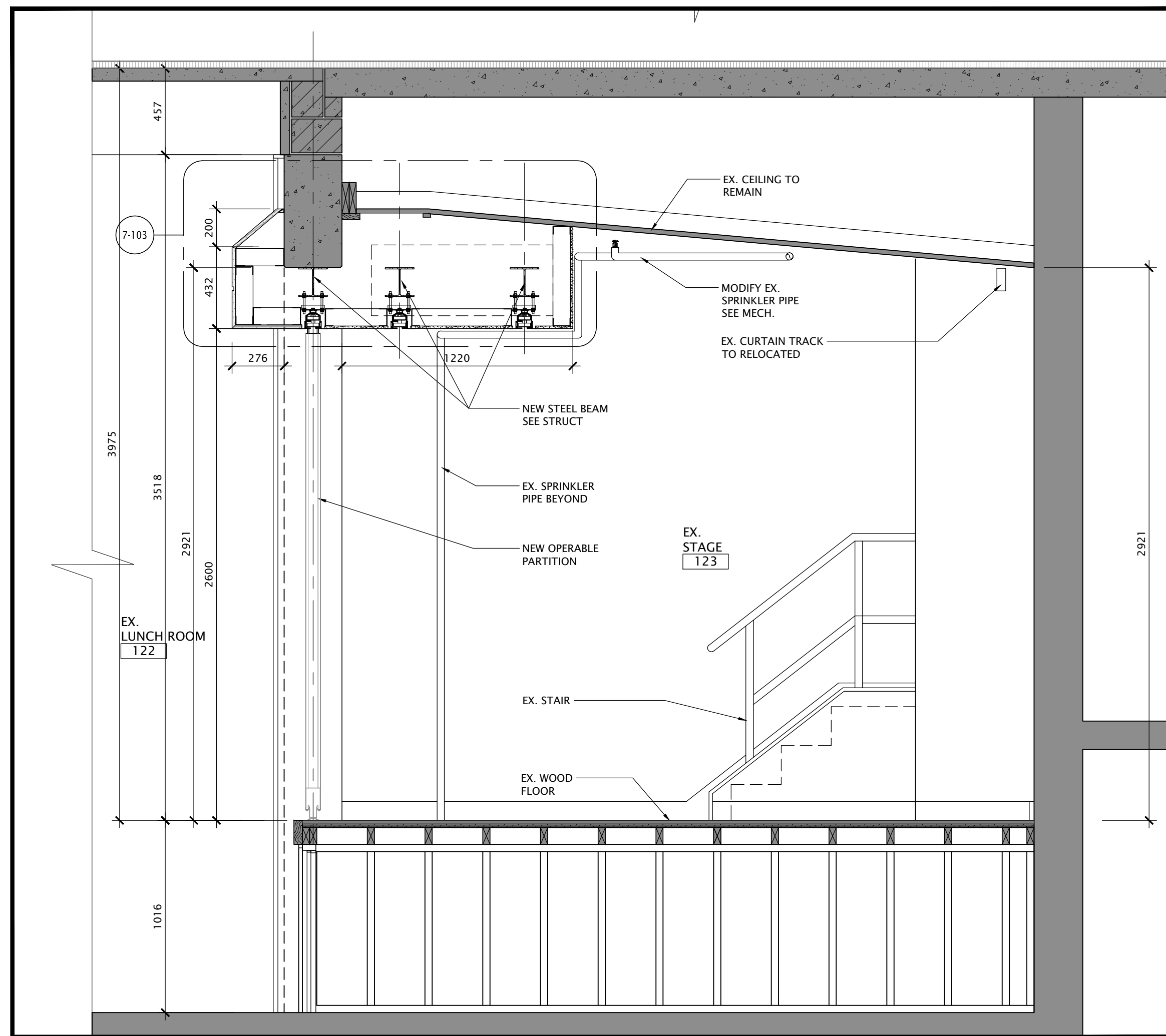
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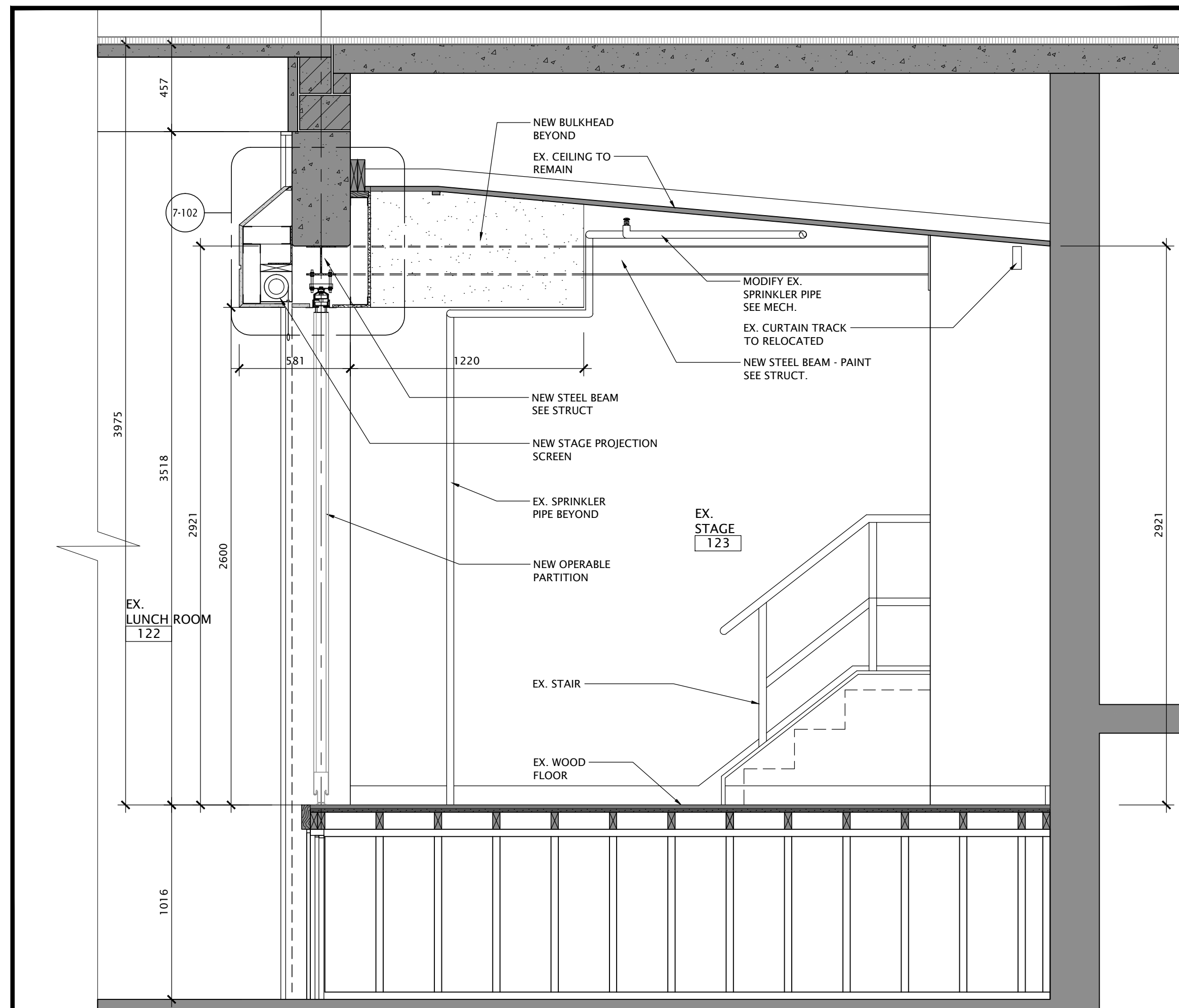
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DRAWING TITLE:
PARTIAL LOWER FLOOR PLAN DEMOLITION & NEW LAYOUT

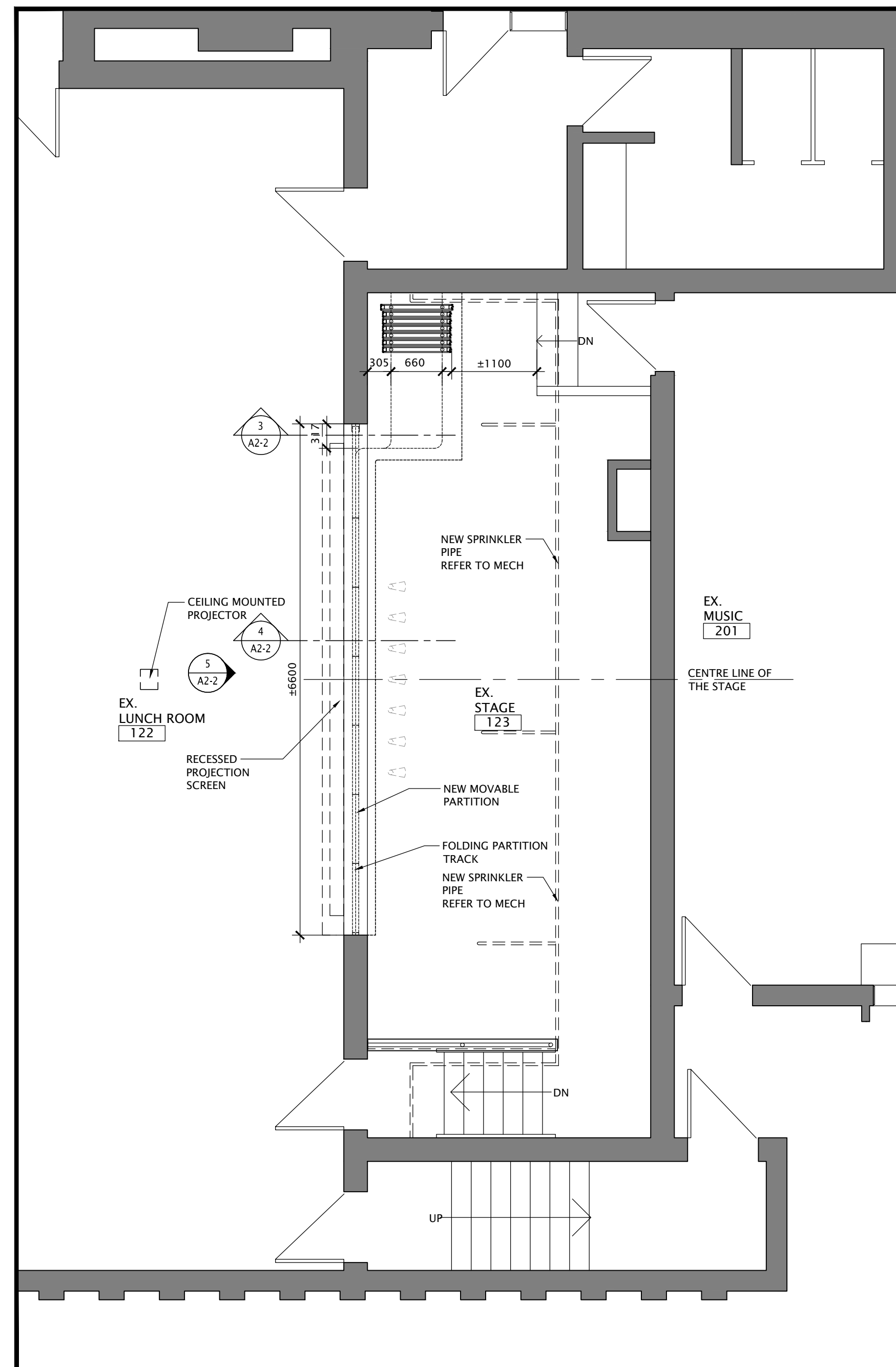
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| CHECKED: | B.F. | REV.: | 0 |
| DATE: | NOV/20 | | |



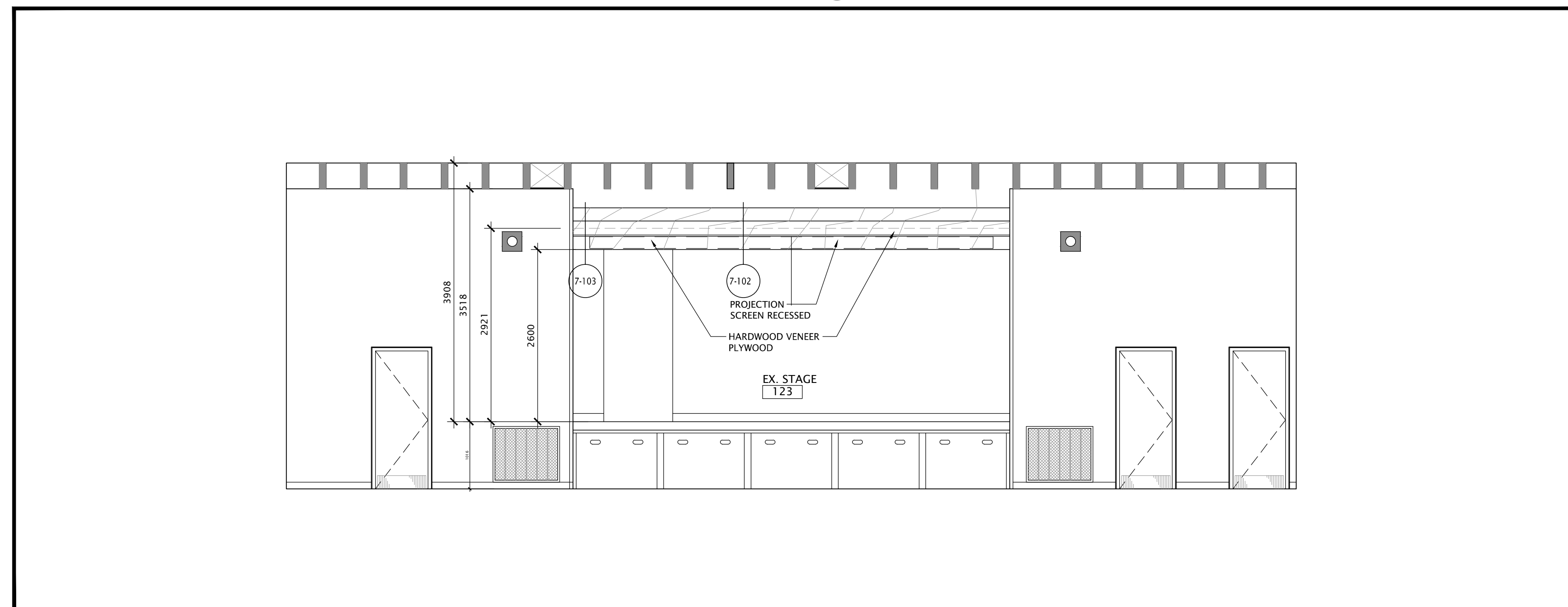
3 PARTIAL LOWER FLOOR PLAN - SECTION
SCALE: 1:20 - EXISTING STAGE



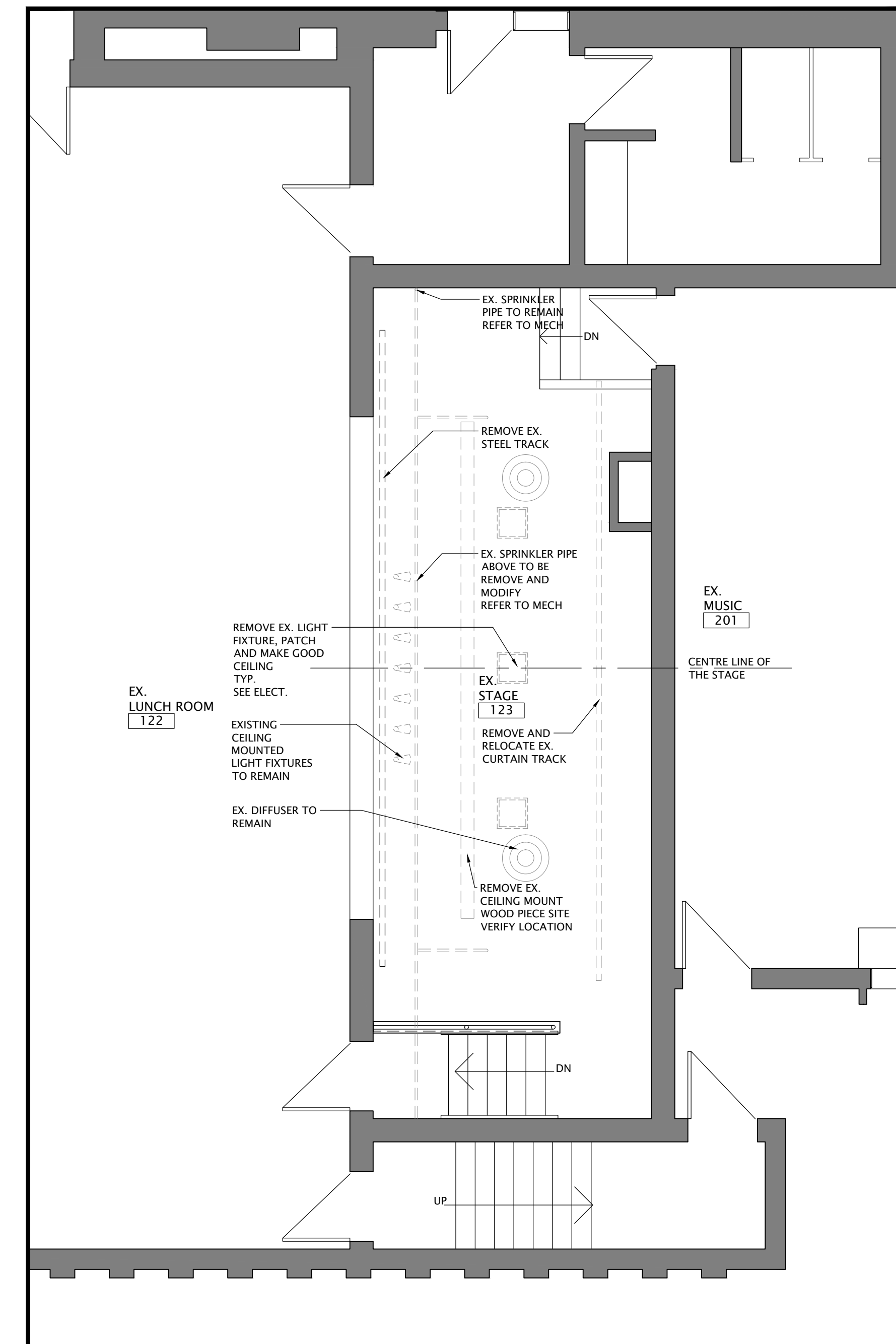
4 PARTIAL LOWER FLOOR PLAN - SECTION
SCALE: 1:20 - EXISTING STAGE



2 PARTIAL LOWER FLOOR PLAN - NEW
SCALE: 1:50 - EXISTING STAGE



5 PARTIAL LOWER FLOOR PLAN - ELEVATION
SCALE: 1:50 - EXISTING STAGE



1 PARTIAL LOWER FLOOR PLAN - DEMOLITION
SCALE: 1:50 - EXISTING STAGE

| NO. | DATE | REVISION |
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 6. ALL DIMENSIONS GIVEN ARE IN METRIC.



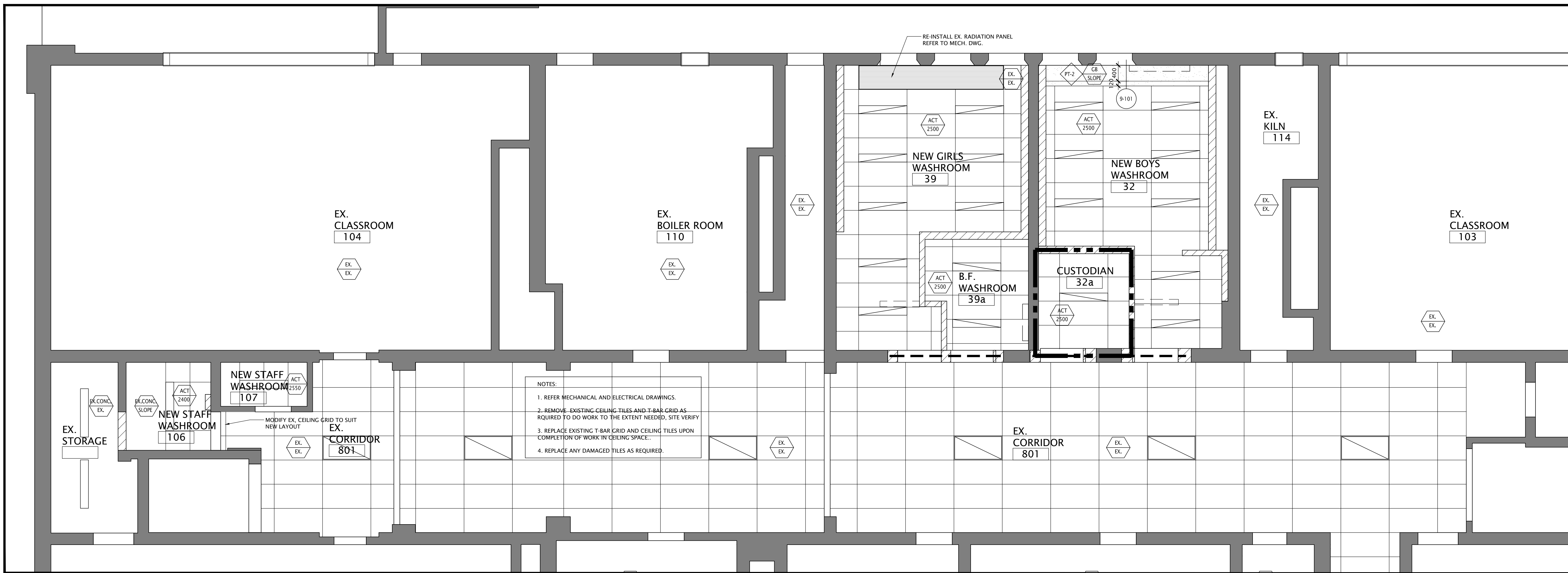
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219 Dufferin Street, Suite 308b
Toronto, Ontario M5K 3L1
ph 416.203.7799
fax 416.203.7763



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65 Victoria Ave
Cambridge, ON
N1S 2V1

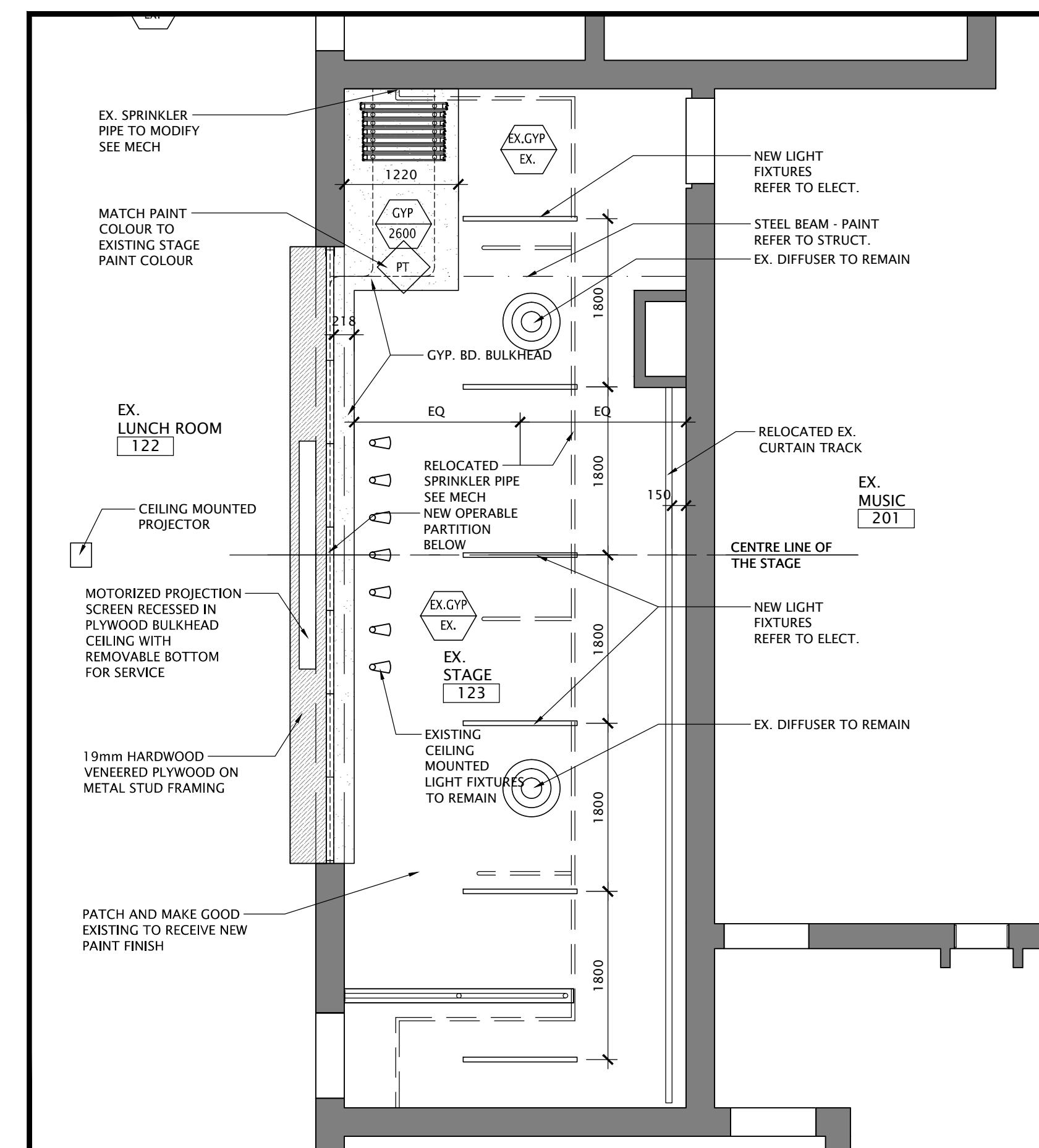
DRAWING TITLE:
**PARTIAL LOWER FLOOR PLAN
DEMOLITION & NEW LAYOUT
SECTION**

| | |
|-------------------------|----------------------------|
| PROJECT NO: A20002.6 | SCALE: 1:50 |
| DRAWN: K+ | DRAWING NO. REV. A2-2 0 |
| CHECKED: B.F. | DATE: NOV/20 |



1 PARTIAL REFLECTED CEILING PLAN
SCALE: 1:50 - STAFF WASHROOM , BOY'S , GIRL'S , B.F. WASHROOM AND CUSTODIAN

NOTES:
 1. REFER MECHANICAL AND ELECTRICAL DRAWINGS.
 2. REMOVE EXISTING CEILING TILES AND T-BAR GRID AS REQUIRED TO DO WORK TO THE EXTENT NEEDED, SITE VERIFY
 3. REPLACE EXISTING T-BAR GRID AND CEILING TILES UPON COMPLETION OF WORK IN CEILING SPACE...
 4. REPLACE ANY DAMAGED TILES AS REQUIRED.

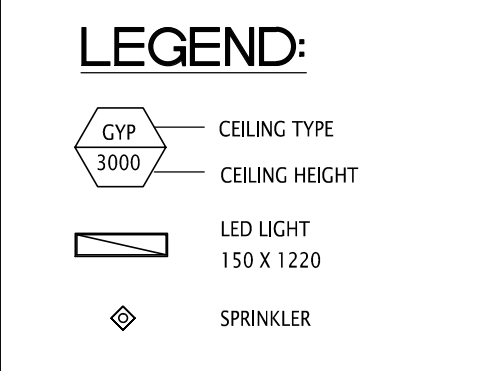


2 PARTIAL REFLECTED CEILING PLAN
SCALE: 1:50 - STAGE

| NO. | DATE | REVISION |
|-----|------------|------------------------------|
| 0 | 22/02/2024 | ISSUED FOR PERMIT AND TENDER |

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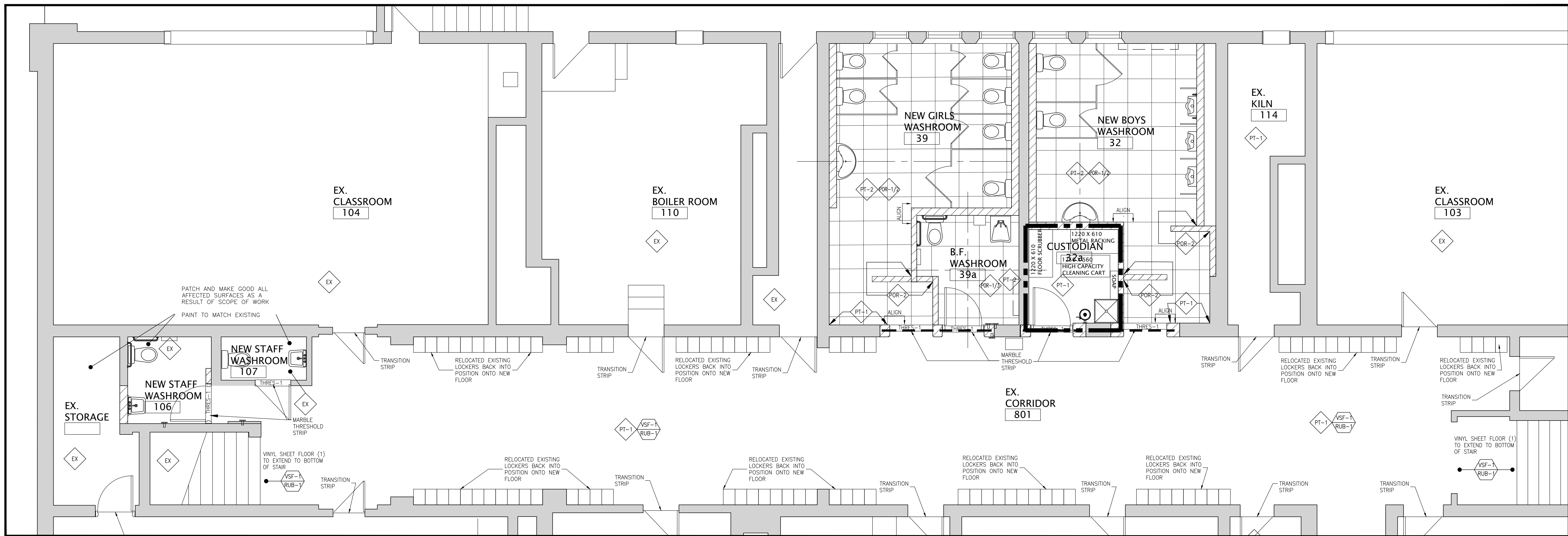
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 N1S 2V1

DRAWING TITLE:
PARTIAL LOWER FLOOR PLAN REFLECTED CEILING PLANS

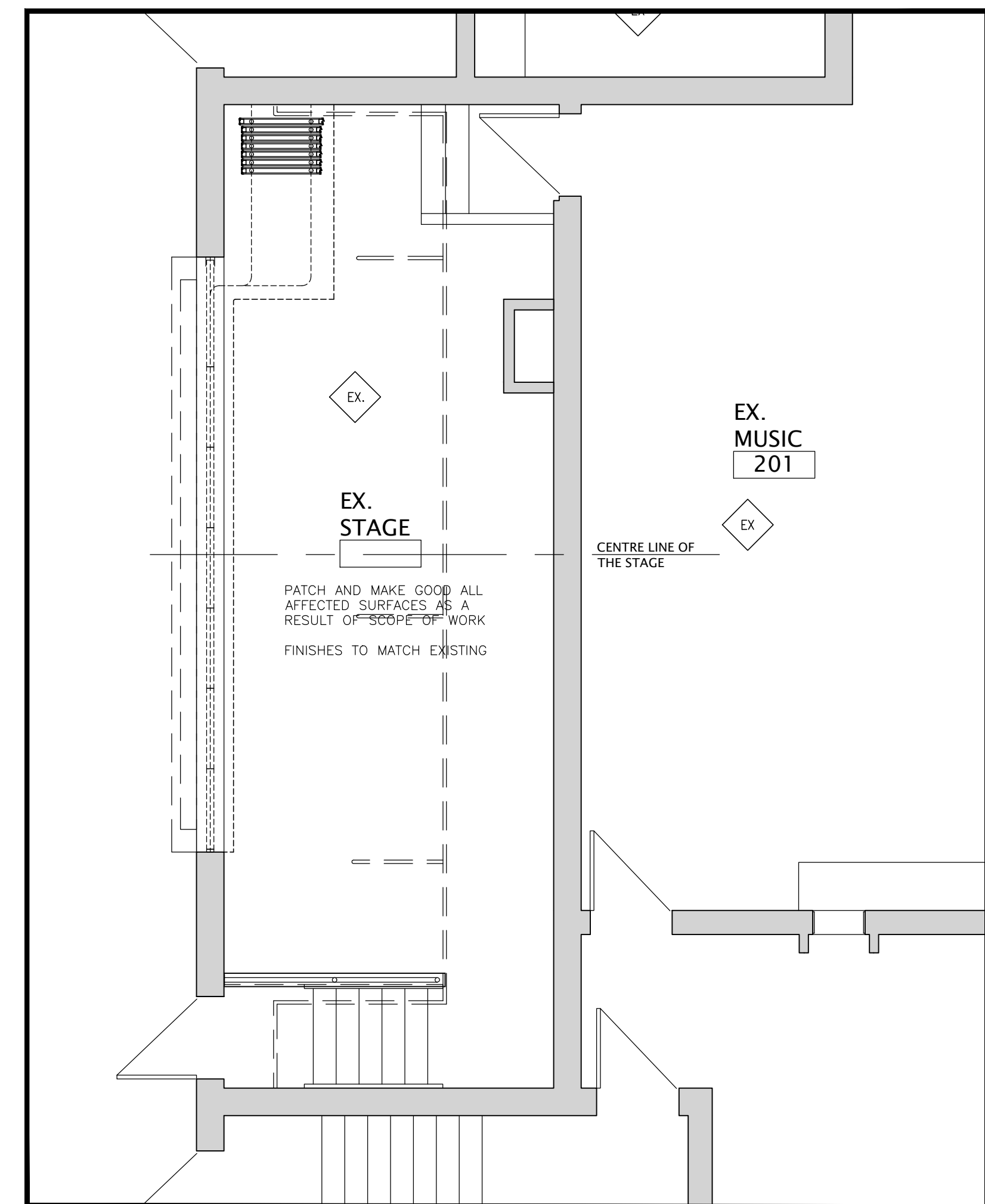
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| PROJECT NO: A20002.6 | SCALE: 1:50 |
| DRAWN: K+ | DRAWING NO. REV. A2-3 0 |
| CHECKED: B.F. | DATE: NOV/20 |

FILES: A20002.6-A2-3 NEW RCP PLAN.DWG

DATE PLOTTED: February 8, 2022



1 PARTIAL FINISH PLAN - NEW
SCALE: 1:50



2 PARTIAL FINISH PLAN
SCALE: 1:50 - STAGE

| NO. | DATE | REVISION |
|-----|------|----------|
| | | |
| | | |
| | | |

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LEGEND:

| | | |
|--|-----------|----------------|
| | CYP | CEILING TYPE |
| | 3000 | CEILING HEIGHT |
| | LED LIGHT | 150 X 1220 |
| | SPRINKLER | |



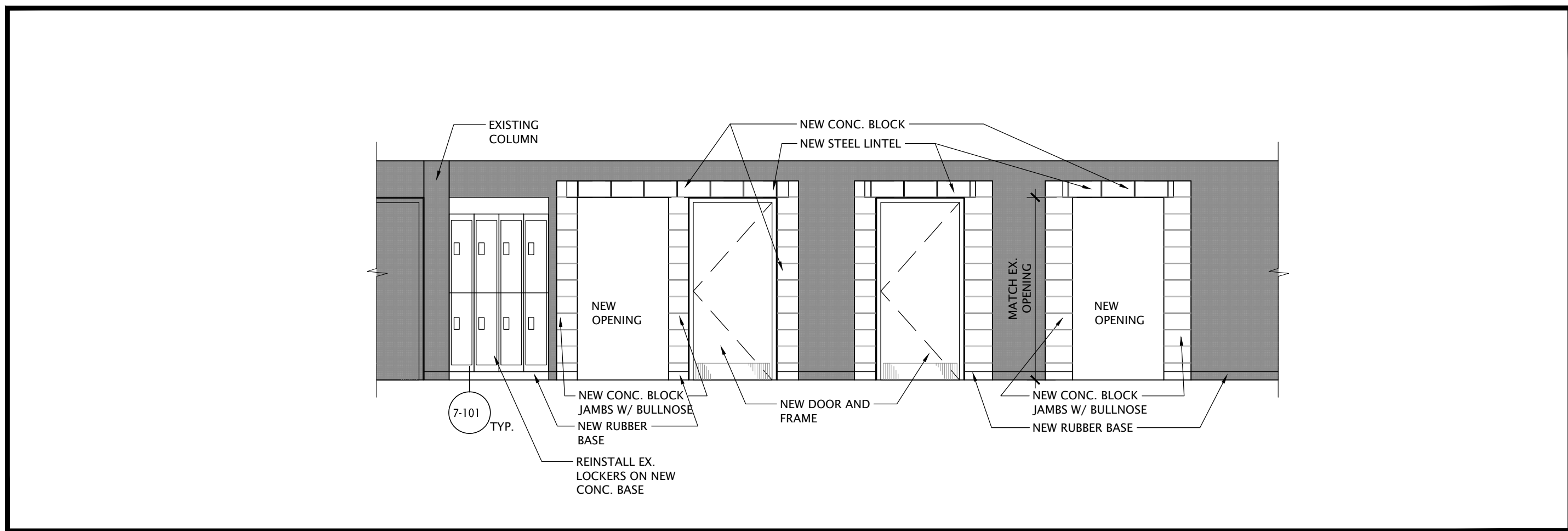
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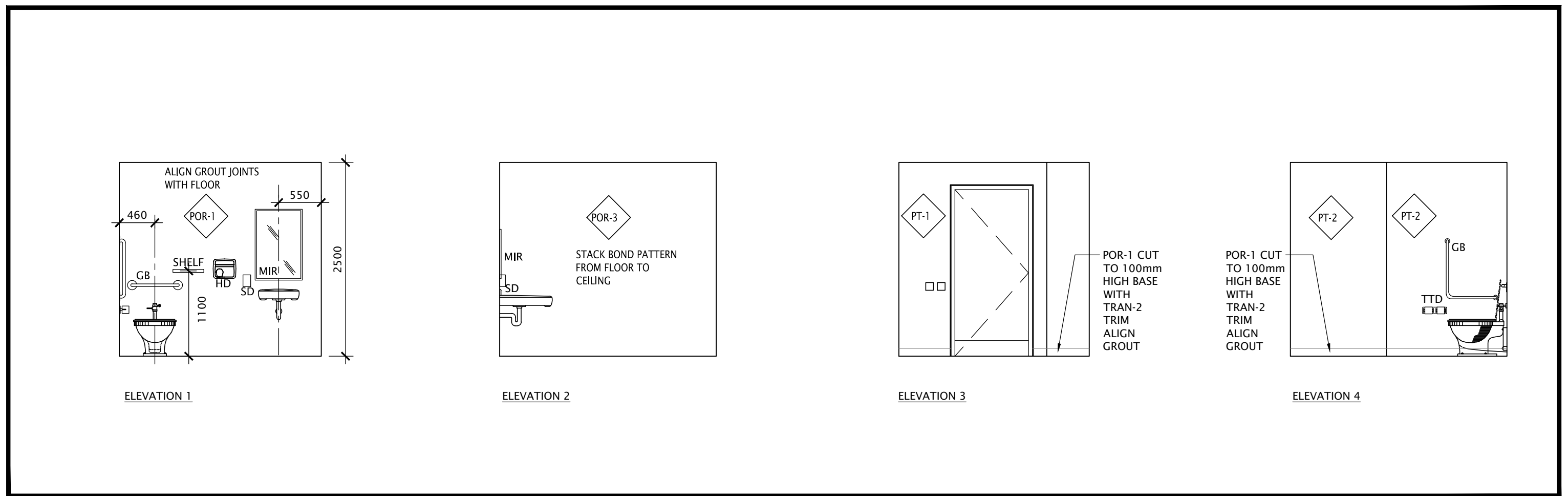
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DRAWING TITLE:
PARTIAL LOWER FLOOR PLAN - NEW FINISHES

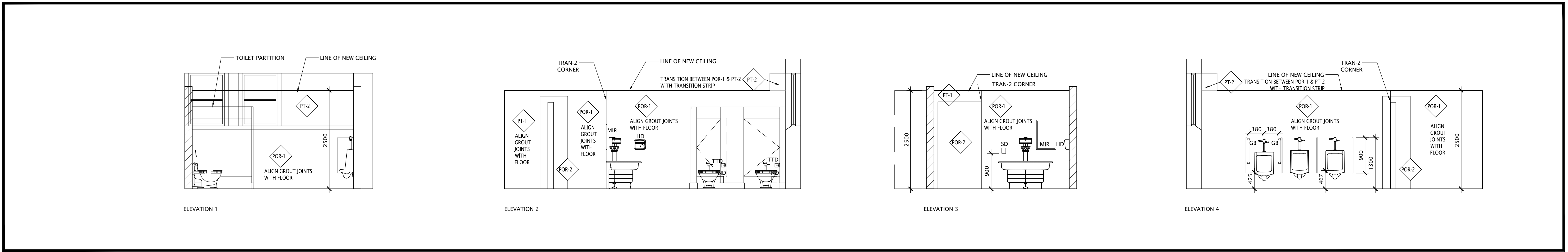
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| DRAWN: K+ | DRAWING NO. REV. A2-4 0 |
| CHECKED: B.F. | |
| DATE: NOV/20 | |



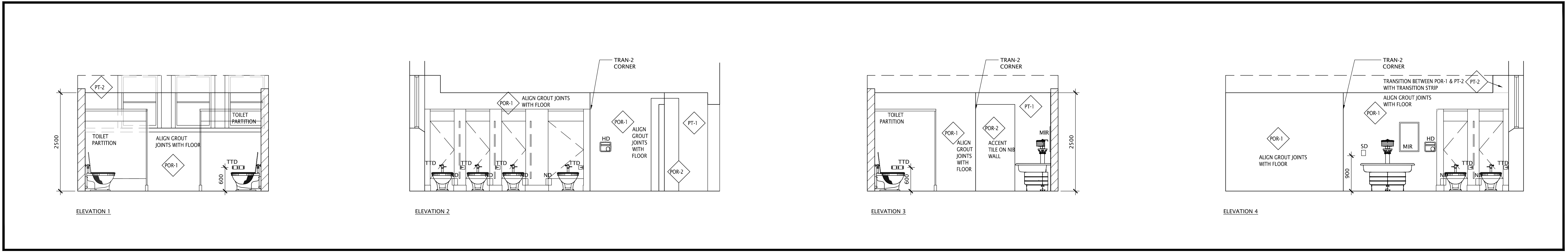
1 INTERIOR ELEVATION - EXISTING CORRIDOR 81
SCALE: 1:50



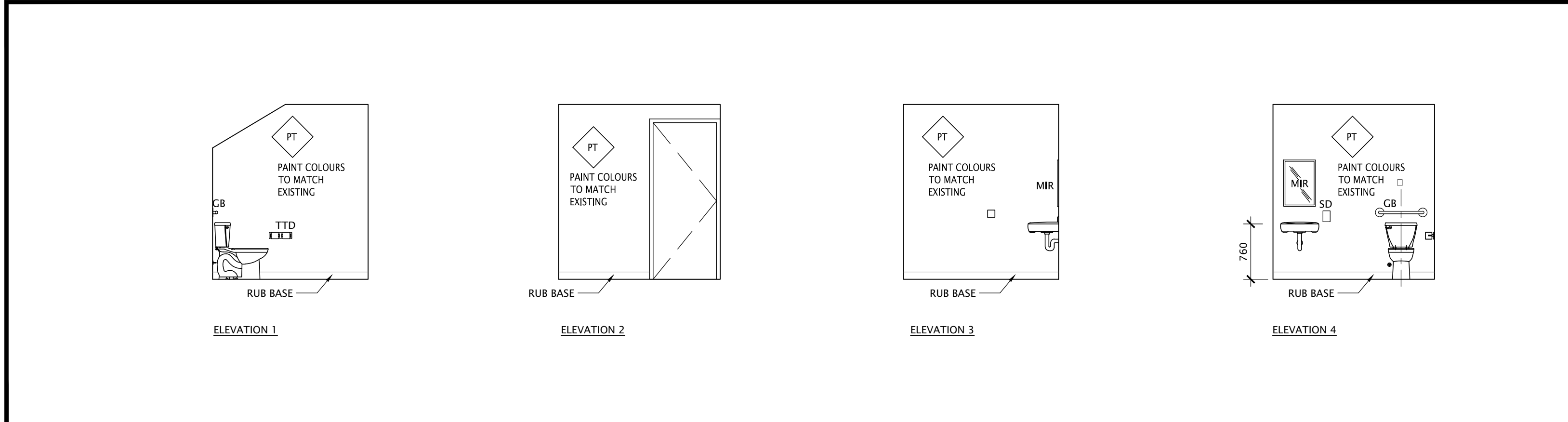
2 INTERIOR ELEVATION - NEW UNIVERSAL WASHROOM 39a
SCALE: 1:50



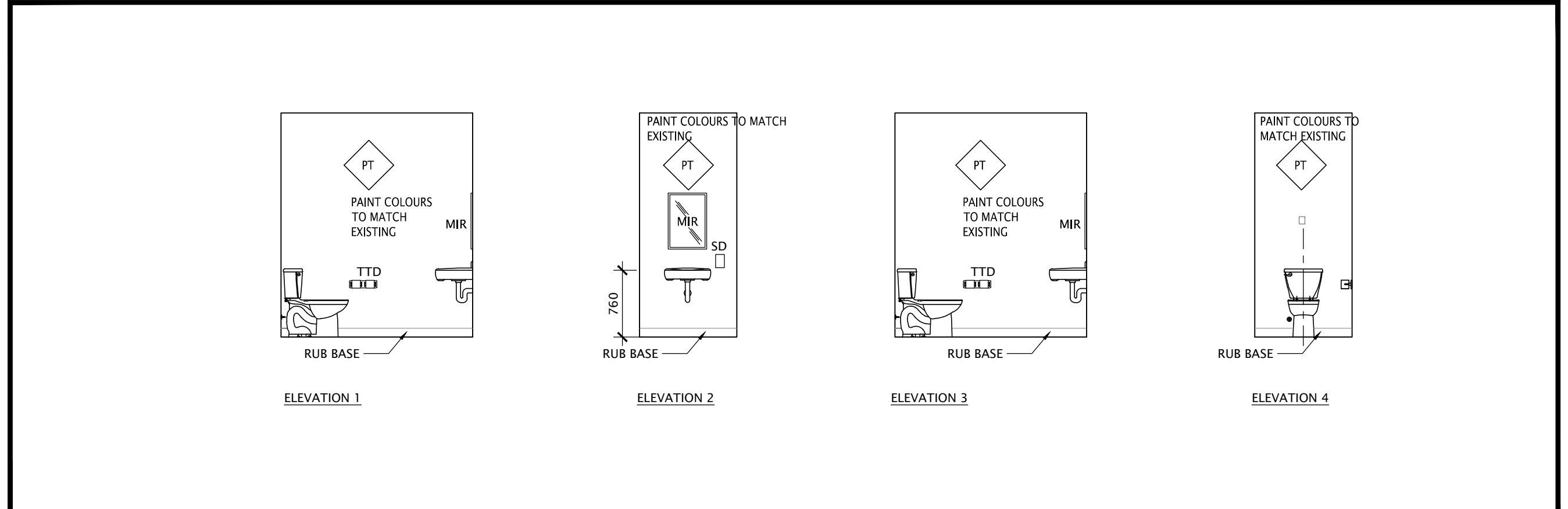
3 INTERIOR ELEVATION - NEW BOY'S WASHROOM 32
SCALE: 1:50



4 INTERIOR ELEVATION - NEW GIRL'S WASHROOM 39
SCALE: 1:50



6 INTERIOR ELEVATION - NEW STAFF WASHROOM 106
SCALE: 1:50



5 INTERIOR ELEVATION - NEW STAFF WASHROOM 107
SCALE: 1:50

| | | | |
|-----------|---|----------|------------------------------|
| NO. DATE: | 0 | 22/02/20 | ISSUED FOR PERMIT AND TENDER |
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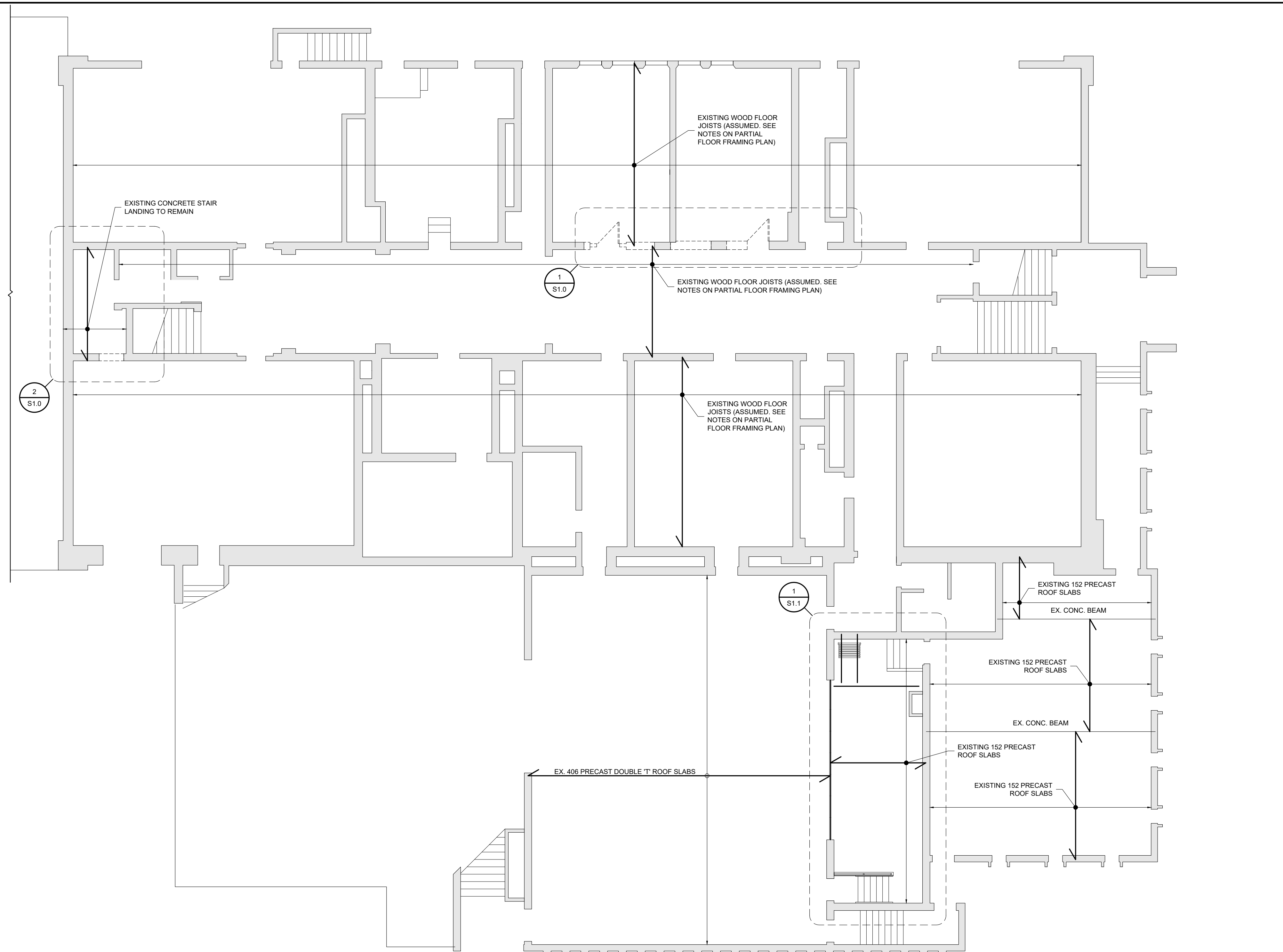


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| | |
|---------------------------------------|----------------------------|
| DRAWING TITLE: INTERIOR ELEVATIONS | |
| PROJECT NO: A20002.6 | SCALE: 1:50 |
| DRAWN: K+ | DRAWING NO. REV. A4-0 0 |
| CHECKED: B.F. | DATE: NOV/20 |



CONSTRUCTION NOTES:

- A. GENERAL**
- ALL WORK SHALL CONFORM TO THE ONTARIO BUILDING CODE AND ALL STANDARDS REFERENCED WITHIN LOCAL REGULATIONS AND BY-LAWS, AND THE OCCUPATIONAL HEALTH AND SAFETY ACT FOR CONSTRUCTION PROJECTS. THE LATEST VERSIONS OF STANDARDS SHALL APPLY.
 - READ THESE DRAWINGS IN CONJUNCTION WITH ALL RELATED CONTRACT DOCUMENTS AND CONSULTANT DRAWINGS.
 - THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS IN RELATION TO THE DRAWINGS AND NOTIFY THE ENGINEER TO ALL DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
 - DRAWINGS ARE NOT TO BE SCALED.
 - THE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE WITH THE PARTY WHOM THE ENGINEER HAS ENTERED INTO CONTRACT. THERE ARE NO REPRESENTATIONS MADE TO ANY PARTY WITH WHOM THE ENGINEER HAS NOT ENTERED INTO CONTRACT.
 - THE CONTRACTOR SHALL RETAIN AN INDEPENDENT TESTING AND INSPECTION COMPANY TO ENSURE THAT THE WORK IS DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS INCLUDING COMPACTION TESTING, REINFORCING STEEL PLACEMENT, CONCRETE TESTING AND STRUCTURAL STEEL.
 - THE ENGINEER SHALL BE GIVEN MINIMUM 24 HOURS NOTICE BY THE CONTRACTOR FOR ALL CONSTRUCTION REVIEWS, SITE VISITS AND REVIEWS BY THE ENGINEER OR HIS REPRESENTATIVE ARE INTENDED FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THE REVIEWS SHALL NOT MEAN THAT THE ENGINEER HAS SEEN ALL CONSTRUCTION PROCEDURES. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR ERRORS AND OMISSIONS AND FOR MEETING ALL THE REQUIREMENTS OF THE CONSTRUCTION AND CONTRACT DOCUMENTS.
 - THE CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR CONSTRUCTION LOADS AND TEMPORARY BRACING TO ENSURE SAFETY AND THE BUILDING IS PLUMB AND IN TRUE ALIGNMENT AT ALL PHASES OF CONSTRUCTION AS PER O.R.G. 213/91. ALL BRACING MEMBERS SHOWN ON THE DRAWINGS ARE DESIGNED FOR THE FINISHED STRUCTURE AND MAY NOT BE SUFFICIENT FOR ERECTION PURPOSES. SHORING AND BRACING IS REQUIRED UNTIL PROPOSED STRUCTURE IS PROPERLY IN PLACE. SHORING AND BRACING SHALL BE DESIGNED, REVIEWED AND APPROVED BY PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL BE SUBMITTED WITH P.ENG'S STAMP FOR OUR REVIEW PRIOR TO CONSTRUCTION.
 - NO SUBSTITUTIONS FROM THE SPECIFIED PRODUCTS AND MATERIALS ARE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

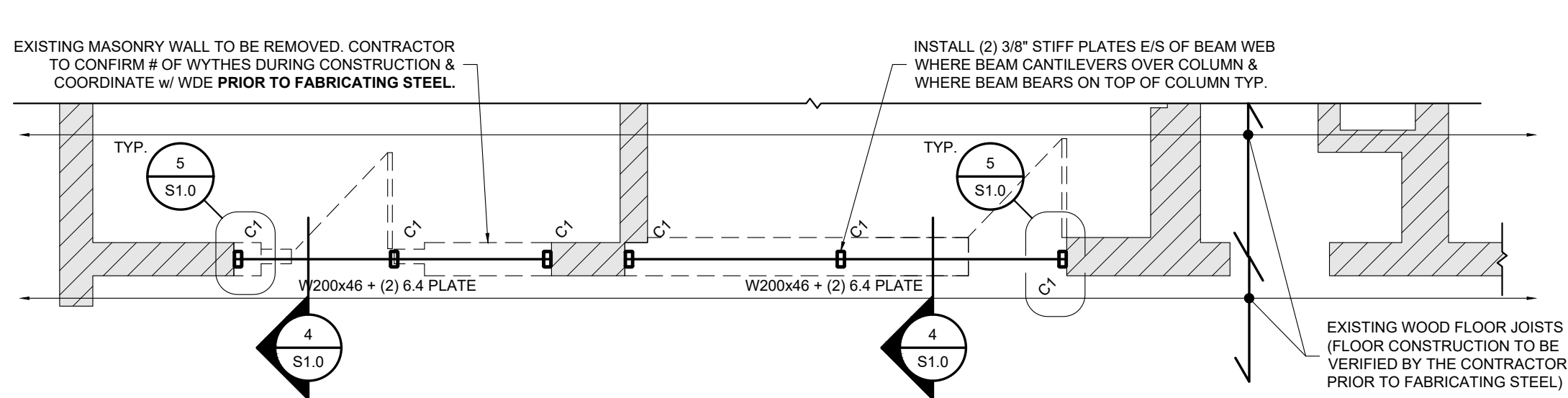
| TESTING REQUIREMENTS | |
|--|-------------------------|
| TEST | COMMENTS |
| STRUCTURAL STEEL CONNECTIONS | INSPECT ALL FIELD WELDS |
| ALL TESTING TO BE COMPLETED BY A CERTIFIED INDEPENDENT TESTING AND INSPECTION COMPANY. COPIES OF ALL REPORTS ARE TO BE FORWARDED TO THE ENGINEER FOR REVIEW. | |

- B. STRUCTURAL STEEL**
- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST VERSION OF CAN/CSA-S16 AND THE CISC CODE OF STANDARD PRACTICE.
 - STRUCTURAL STEEL SHALL CONFORM TO THE LATEST VERSION OF CAN/CSA G40.20, G40.21 GRADE 350W CLASS C FOR H.S.S., G40.21 GRADE 350W FOR W SHAPE SECTIONS AND G40.21 GRADE 350W FOR CHANNELS, ANGLES AND MISCELLANEOUS METAL.
 - BOLTED CONNECTIONS SHALL USE GRADE A325 BOLTS.
 - ANCHOR BOLTS SHALL BE FABRICATED USING STEEL ROD CONFORMING TO THE LATEST VERSION OF CSA G40.21 GRADE 300W.
 - WELDING SHALL CONFORM TO CSA W59 AND CSA W47 DIVISION 1 OR DIVISION 2.1 BY THE CANADIAN WELDING BUREAU. WELDING SHALL BE COMPLETED BY CWB CERTIFIED FABRICATOR AND ERECTOR TO THE CSA STANDARDS W178.1 AND W178.2.
 - WHERE FORCES ARE NOT SHOWN ON THE DRAWINGS BEAM REACTIONS SHALL BE 1/2 THE TOTAL UNIFORM DISTRIBUTED FACTORED LOADS NOTED IN THE BEAM LOAD TABLES OF PART 5 OF THE CISC'S HANDBOOK OF STEEL CONSTRUCTION.
 - COLUMN BEARING GROUT SHALL BE 40 MPa MINIMUM, NON-SHRINK AND 38mm (1 1/2") MINIMUM THICK.
 - STRUCTURAL STEEL MEMBERS SHALL NOT BE SPLICED WITHOUT THE APPROVAL OF THE ENGINEER.
 - STEEL BEAMS AND LINTELS SHALL HAVE MINIMUM 200mm (8") BEARING ON MASONRY UNLESS OTHERWISE NOTED. WELD BEAMS AND LINTELS TO BEARING PLATES WHERE PROVIDED WITH MINIMUM 4.8mm x 50mm (3/16"x2") FILLET WELD EACH SIDE.
 - PROVIDE (2) 10mm (3/8") STIFFENER PLATES EACH SIDE OF BEAMS CANTILEVERED OVER COLUMNS OR SUPPORTS OR SUPPORTING COLUMNS.
 - ALL STRUCTURAL STEEL IS TO BE SHOP PRIME PAINTED UNLESS NOTED OTHERWISE. STRUCTURAL STEEL WHICH IS TO BE PROTECTED WITH SPRAY APPLIED FIREPROOFING IS TO BE KEPT CLEAN AND UNCOATED. STRUCTURAL STEEL EXPOSED TO WEATHER IS TO BE HOT DIP GALVANIZED CONFORMING TO THE LATEST VERSION OF CAN/CSA-G164. ALL COATINGS ARE TO BE TOUCHED UP ON SITE WITH APPROVED PAINT FOR PRIMED STEEL AND ZINC RICH PAINT FOR GALVANIZED STEEL.
 - TO FACILITATE THE MECHANICAL AND ELECTRICAL INSTALLATIONS PANEL POINTS OF JOISTS ARE TO LINE UP JOIST TO JOIST WITHIN SIMILAR AREAS.
 - ALL BUILDING MATERIALS AND EQUIPMENT SUPPORTED BY OPEN WEB STEEL JOISTS ARE TO BE CONNECTED AT JOIST PANEL POINTS.

| SHOP DRAWINGS REQUIRED | | | |
|------------------------|-------|--------------|-------------------------------------|
| NAME | REQ'D | P.ENG. STAMP | MINIMUM CERTIFICATION REQUIREMENTS: |
| STRUCTURAL STEEL | YES | YES | CONNECTIONS ONLY |
| SHORING | YES | YES | LAYOUT AND ANCHORAGE DETAILS |

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS MUST BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO ISSUING TO THE ENGINEER FOR REVIEW.

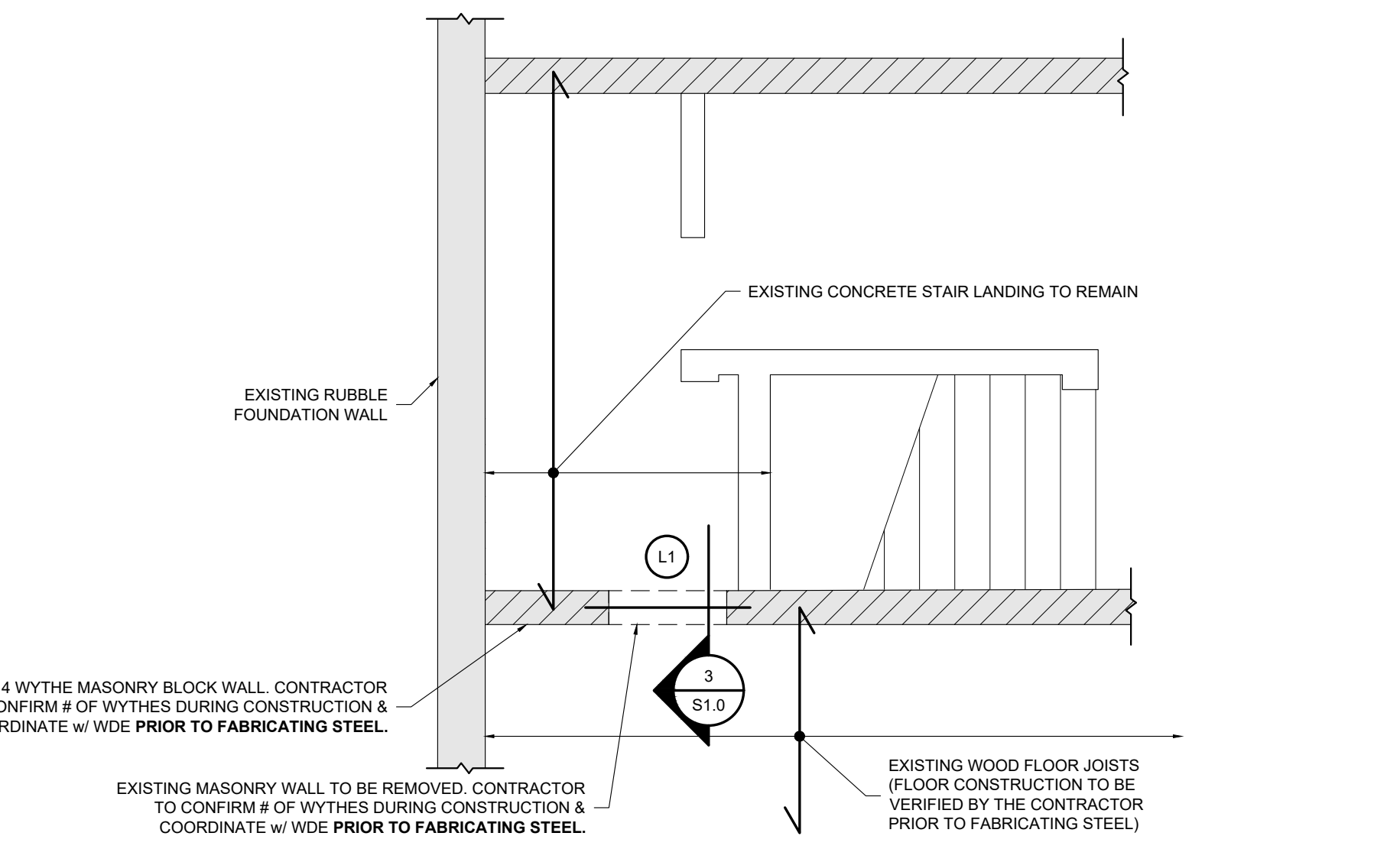
KEYPLAN



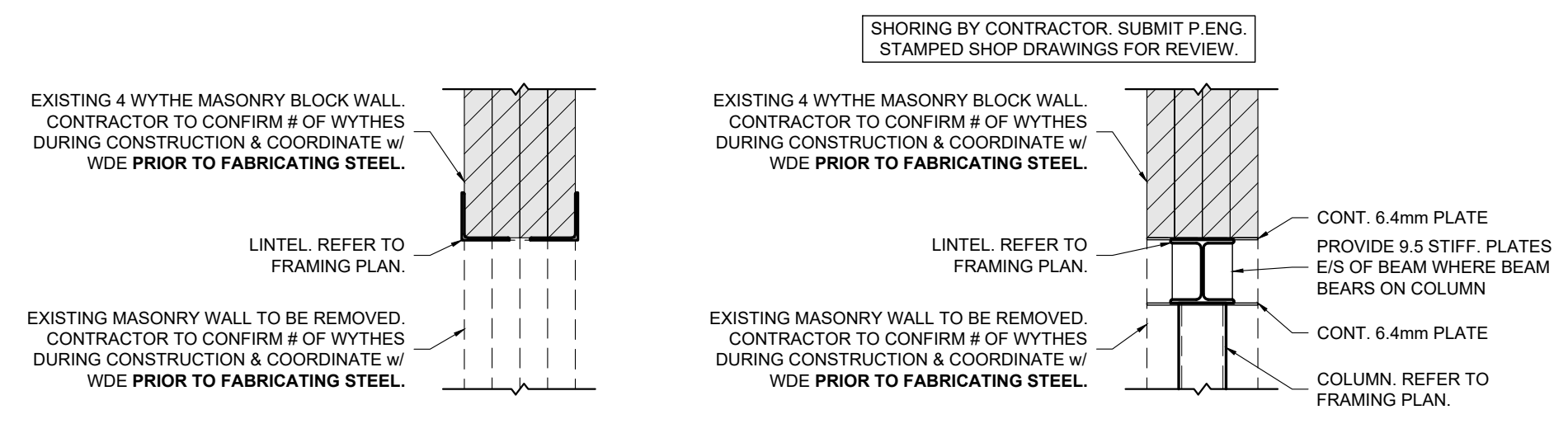
1 PARTIAL GROUND FLOOR FRAMING PLAN 1:50

| FLOOR DESIGN LOADS | |
|--------------------|---|
| DL | = 1.4kPa (WOOD FLOOR STRUCTURE ASSUMED) |
| LL | = 4.8kPa |

| COLUMN SCHEDULE | | | |
|-----------------|---------------|--------------|--|
| COLUMN | SIZE | BASE PLATE | ANCHOR BOLTS |
| C1 | HSS152x76x9.5 | 305x152x12.7 | (2) 15.80 THREADED ROD ANCHORS c/w HILTI HY-200 EPOXY w/ MIN. 127 EMBED. INTO EXISTING CONCRETE FDN WALL. CONTRACTOR TO VERIFY CONSTRUCTION OF EXISTING FOUNDATION WALL & COORDINATE w/ WDE. |

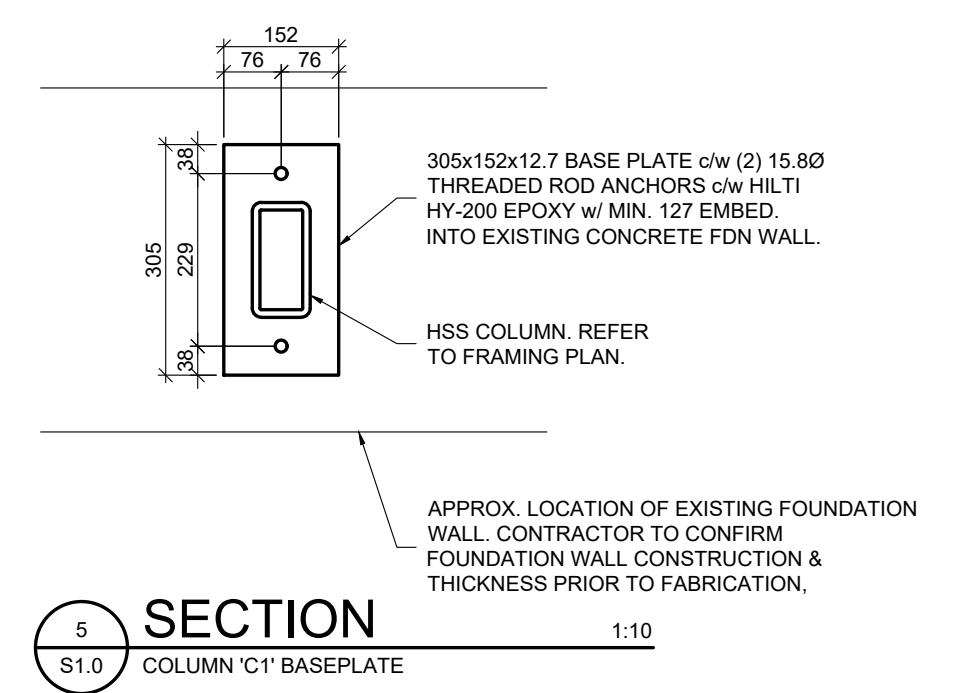


2 PARTIAL GROUND FLOOR FRAMING PLAN 1:50



3 SECTION 1:20
LINTEL AT MULTI-WYTHE MASONRY WALL

4 SECTION 1:20



5 SECTION 1:10
COLUMN C1 BASEPLATE

| NO. | DATE | REVISION |
|-----|------------|------------------------------|
| 2 | 2022/02/08 | ISSUED FOR PERMIT AND TENDER |
| 1 | 2022/01/07 | ISSUED FOR COORDINATION |

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www.witzeldyce.com

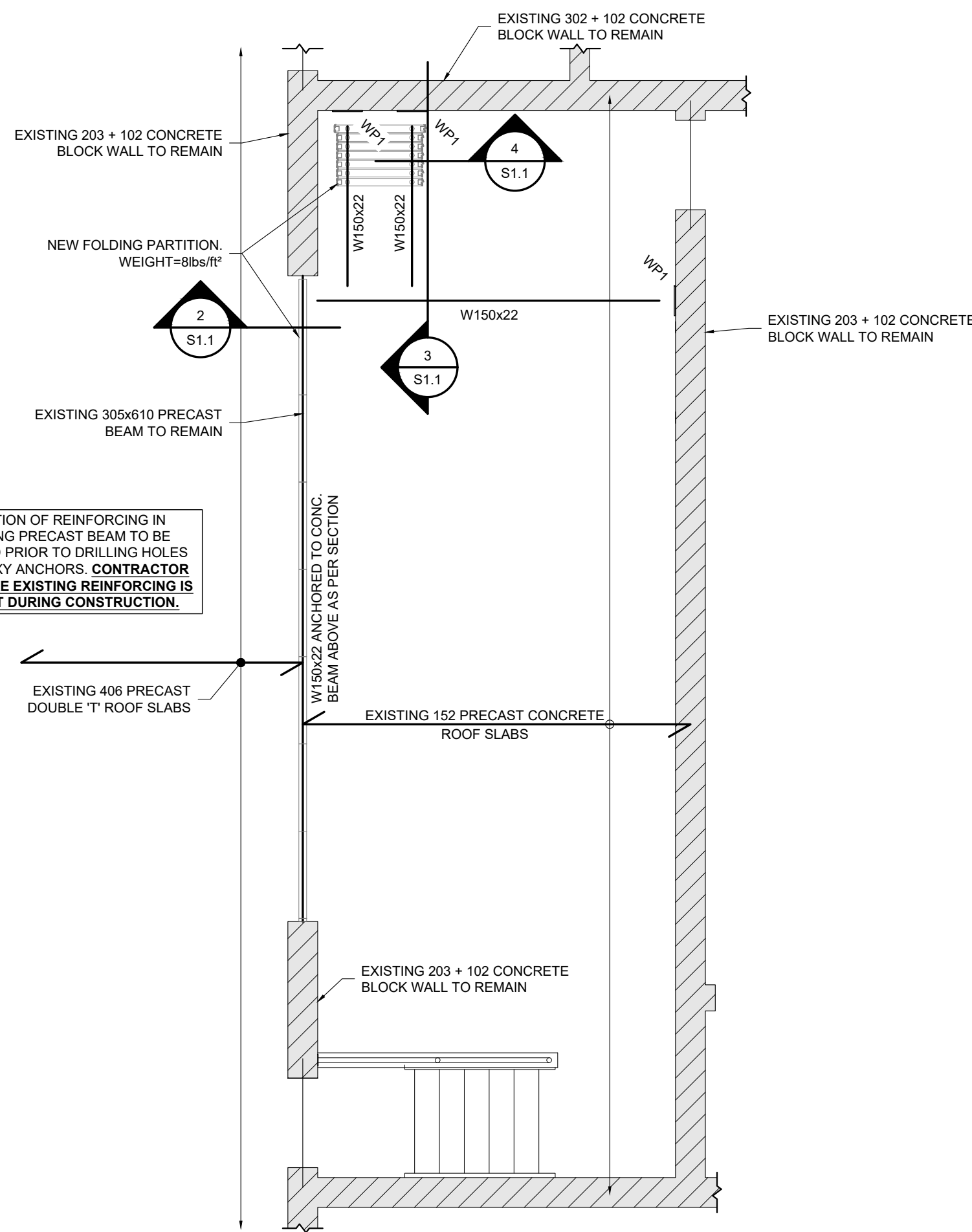
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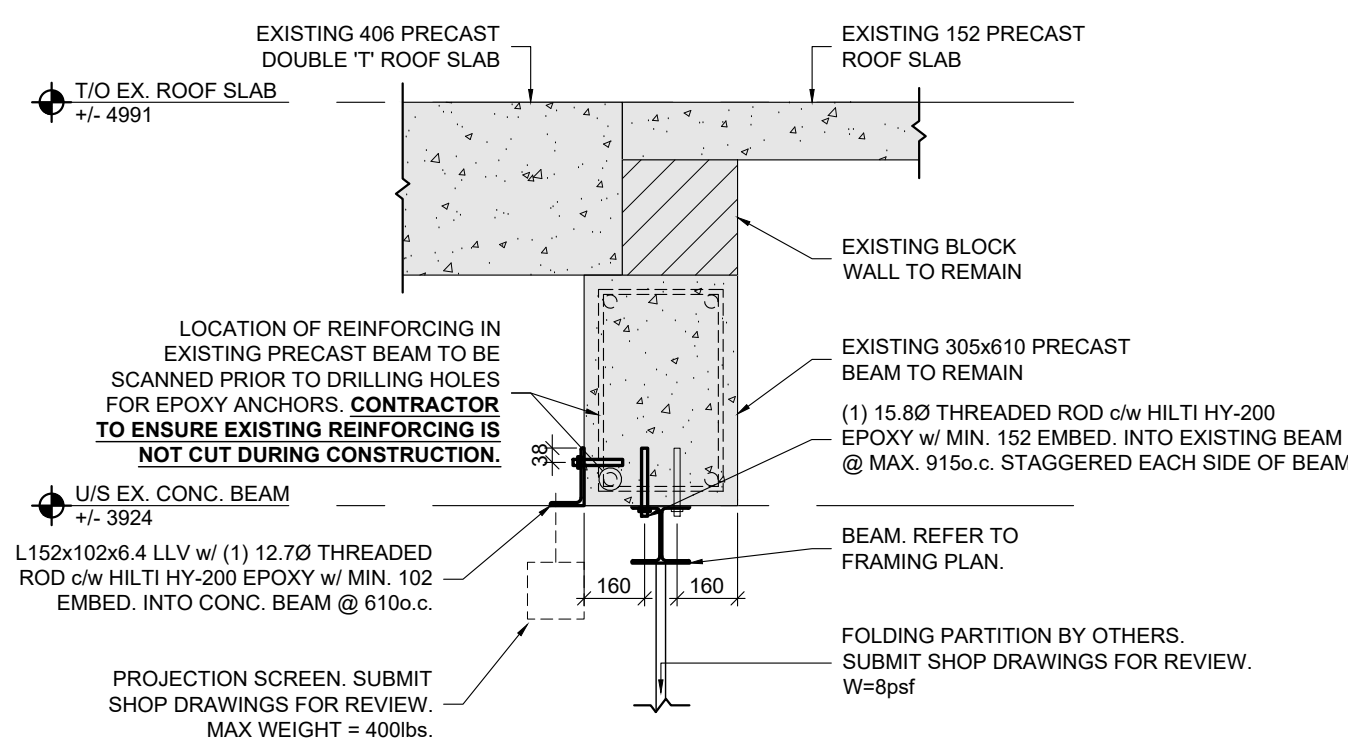
DRAWING TITLE:
PARTIAL GROUND FLOOR FRAMING PLANS & SECTIONS

| | | | |
|-------------|--------------|--------------|----------|
| PROJECT NO: | 14146-101 | SCALE: | AS NOTED |
| DRAWN: | RGW | DRAWING NO.: | S1.0 |
| CHECKED: | MCJ/DAW | REV.: | 1 |
| DATE: | JANUARY 2022 | | |

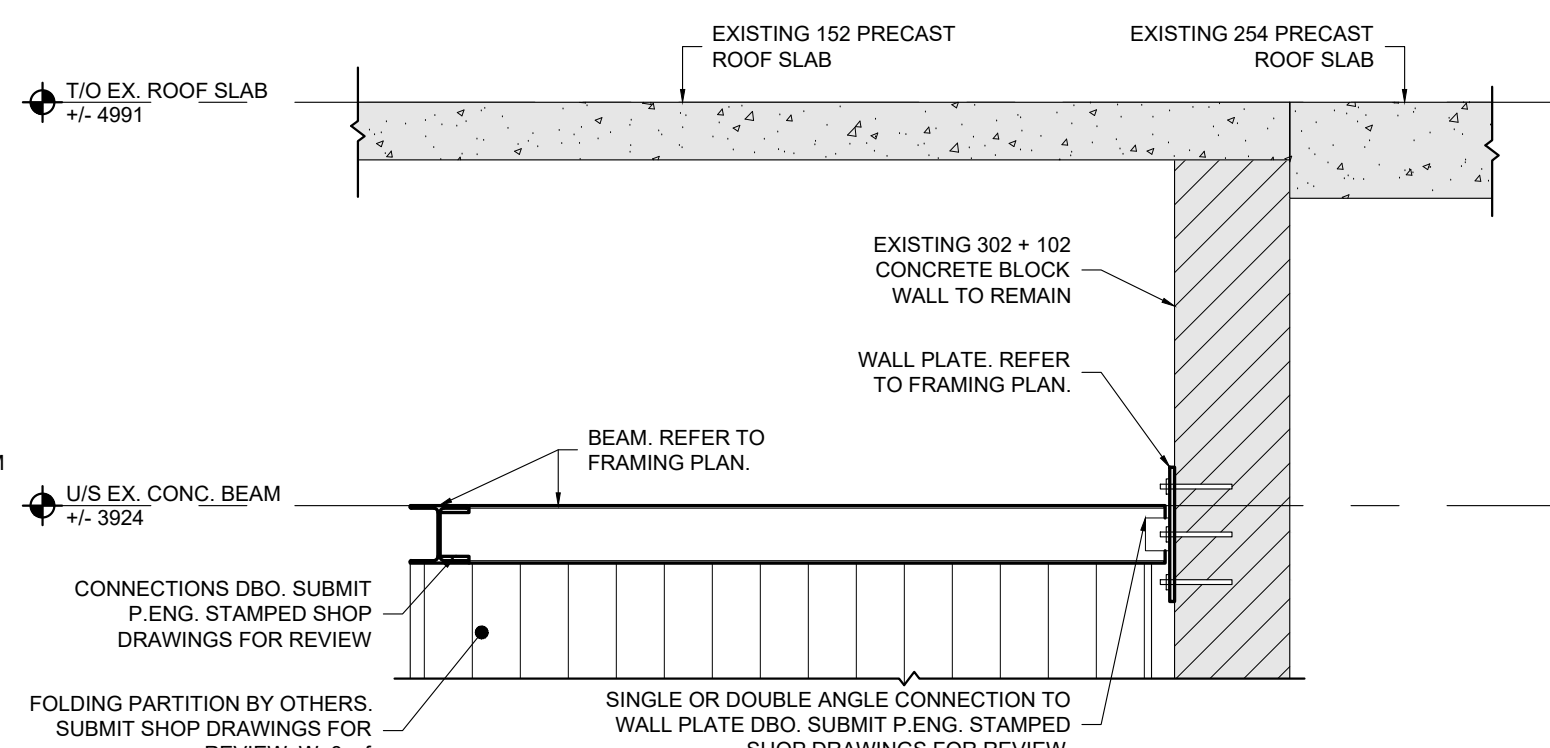


1 PARTIAL ROOF FRAMING PLAN 1:50
S1.1

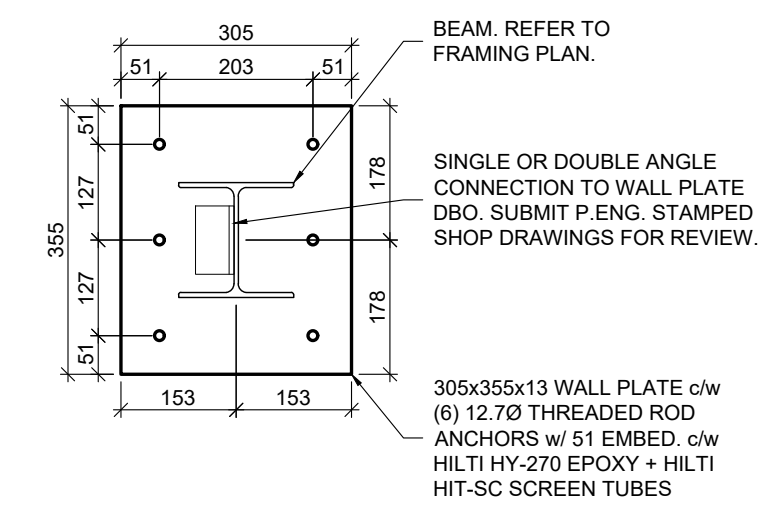
LOCATION OF REINFORCING IN EXISTING PRECAST BEAM TO BE SCANNED PRIOR TO DRILLING HOLES FOR EPOXY ANCHORS. CONTRACTOR TO ENSURE EXISTING REINFORCING IS NOT CUT DURING CONSTRUCTION.



2 SECTION 1:20
S1.1 NEW BEAM UNDER EXISTING



3 SECTION 1:20
S1.1 AT FOLDING PARTITION CLOSET



4 SECTION 1:10
S1.1 WALLPLATE 'WP1'

| WALL PLATE SCHEDULE | | |
|---------------------|------------|--|
| PLATE | SIZE | ANCHORS |
| WP1 | 305x355x13 | (6) 12.70 THREADED ROD ANCHORS w/ 51 EMBED. c/w HILTI HY-270 EPOXY + HILTI HIT-SC SCREEN TUBES |

| ROOF DESIGN LOADS | |
|-------------------|--|
| DL | = 3.1kPa (CONC. ROOF SLAB) + 0.5kPa (ROOFING) + 0.4kPa (PARTITION) = 4kPa TOTAL |
| SL | = 1.9kPa + DRIFT AS PER PLAN |

| NO. | DATE | REVISION |
|-----|------------|------------------------------|
| 1 | 2022/01/07 | ISSUED FOR PERMIT AND TENDER |
| 2 | 2022/02/08 | ISSUED FOR COORDINATION |

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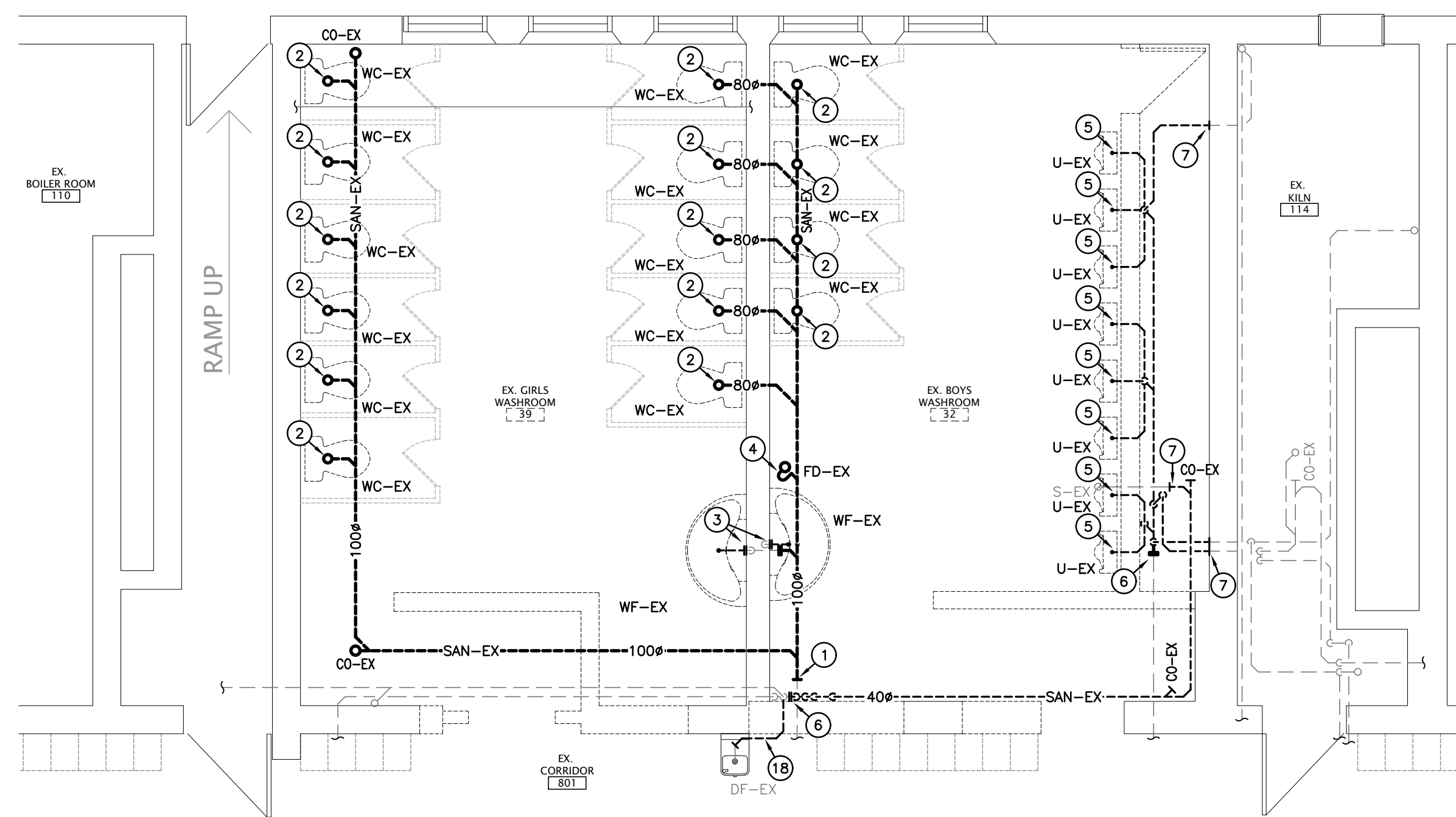


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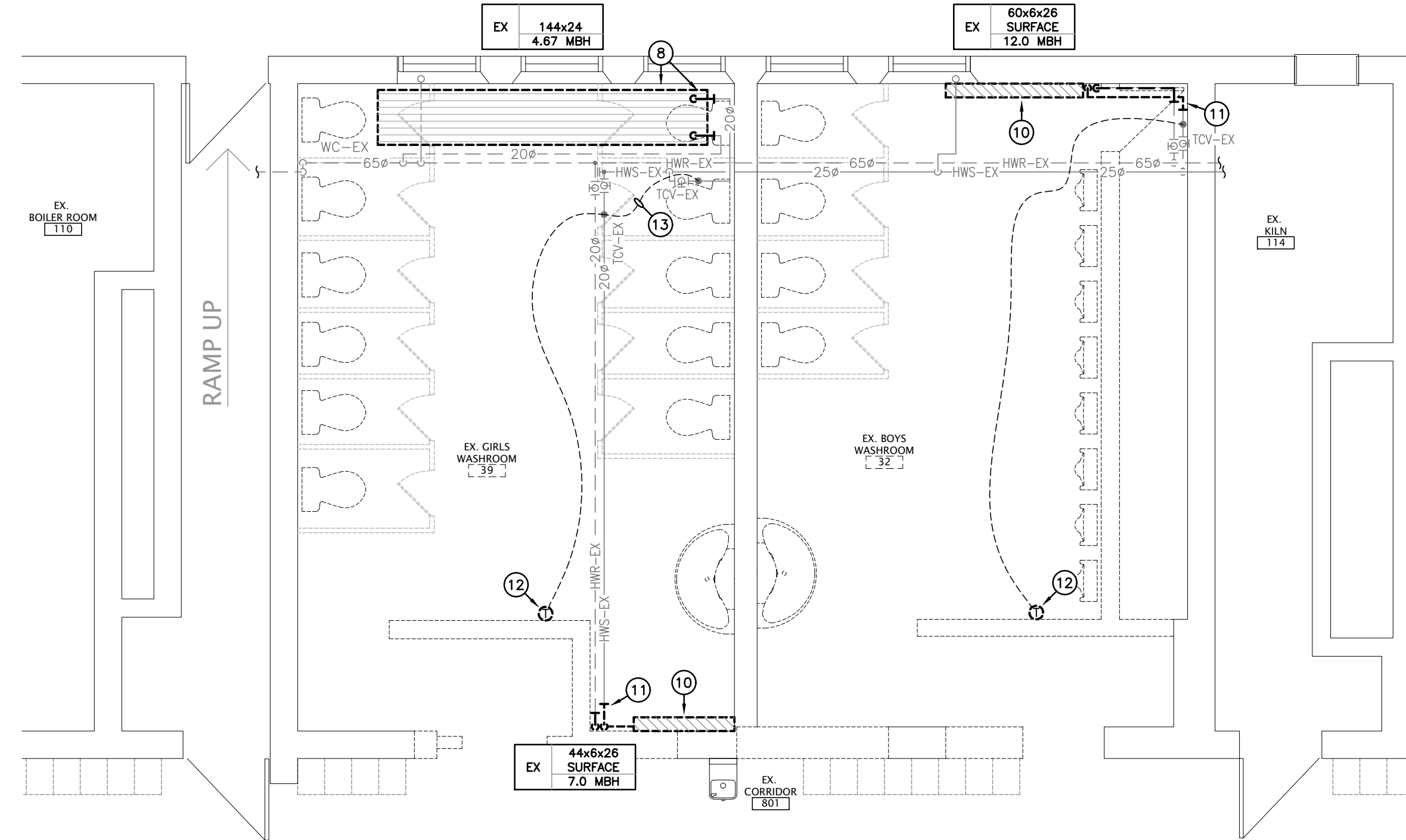
DRAWING TITLE:
PARTIAL ROOF FRAMING PLANS & SECTIONS

| | |
|--------------------------|--------------------------------|
| PROJECT NO: 14146-101 | SCALE: AS NOTED |
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| CHECKED: MCJ/DAW | |
| DATE: JANUARY 2022 | |

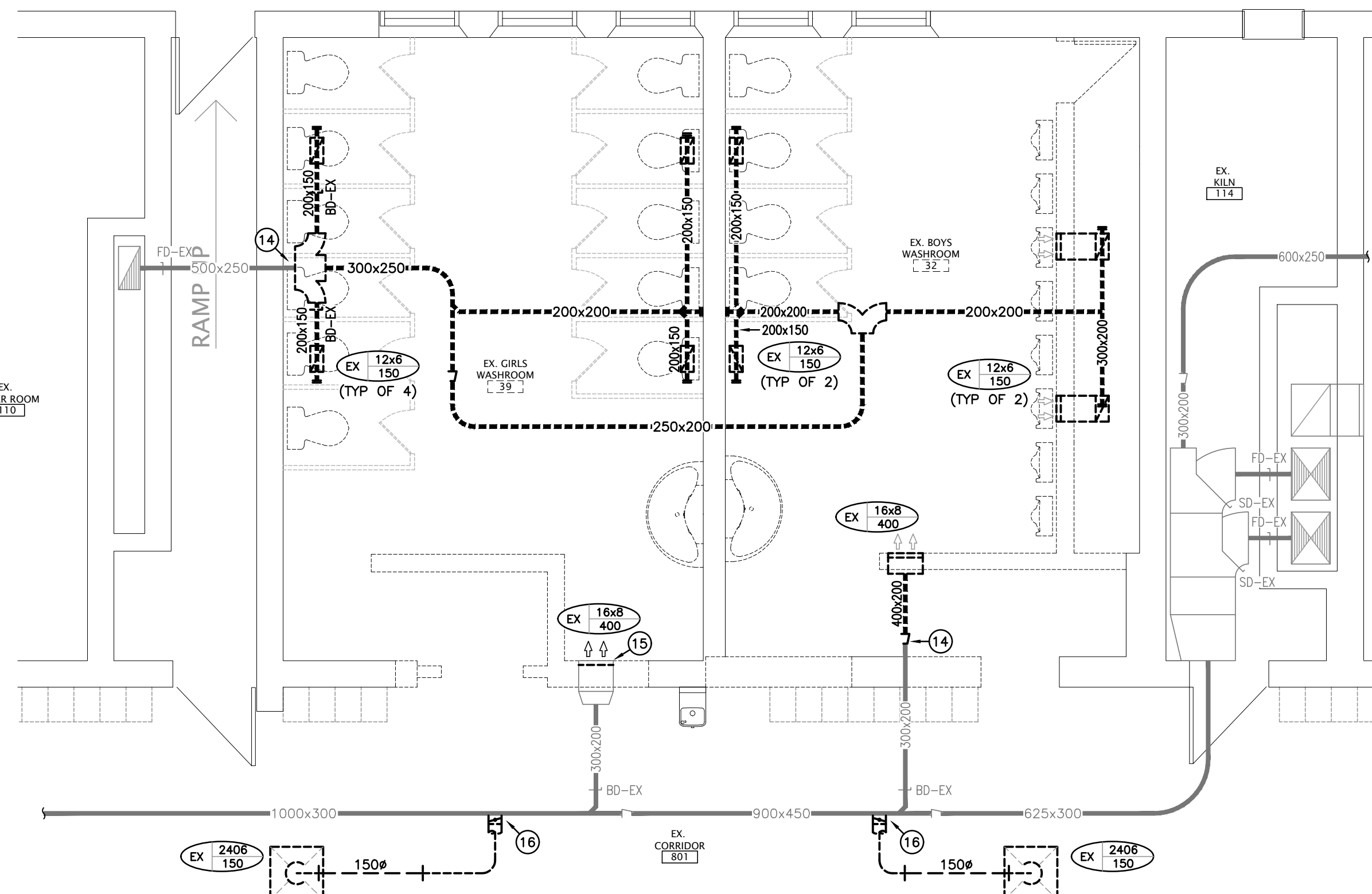
DATE PLOTTED: Tuesday, February 8, 2022



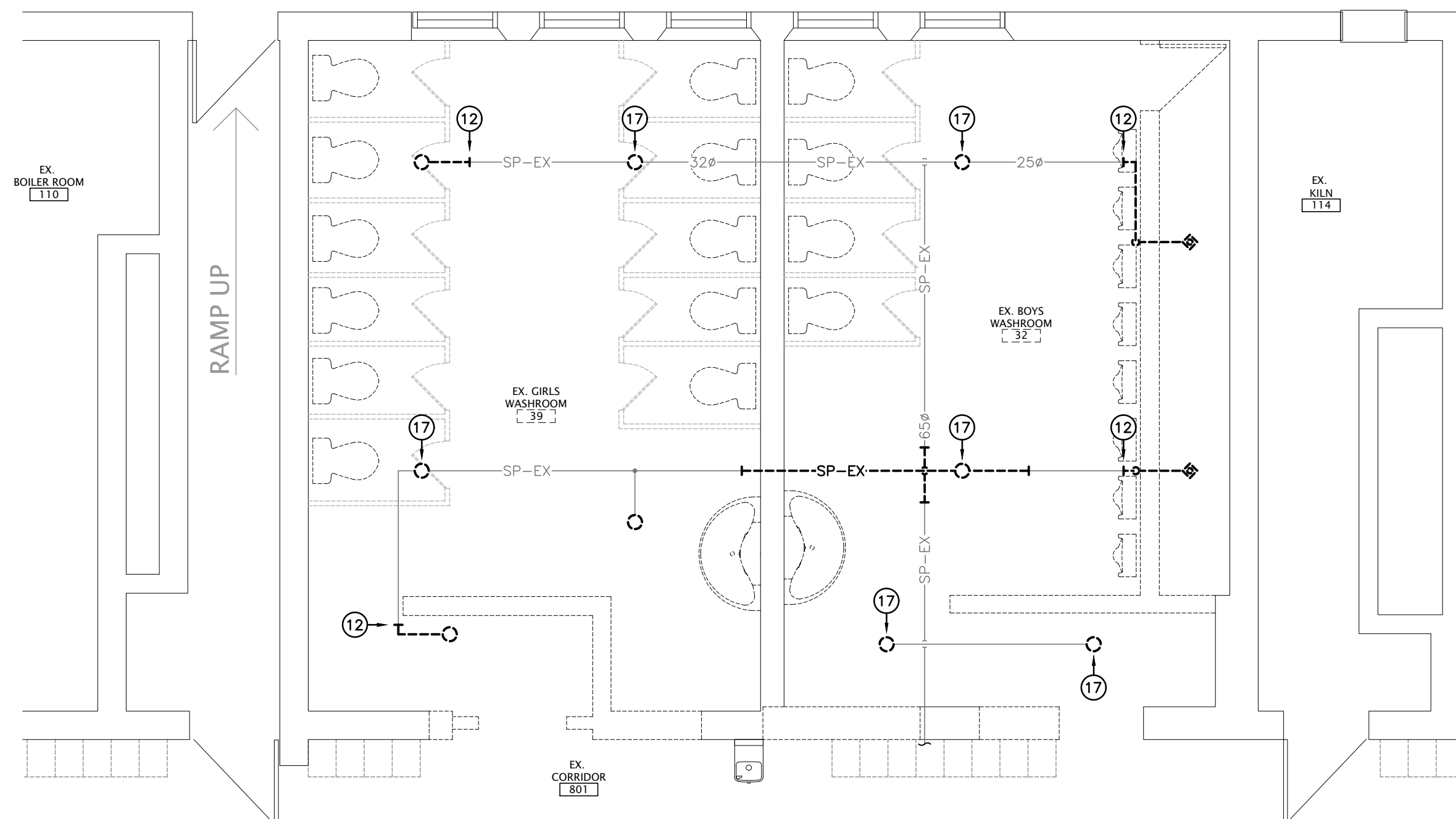
EXISTING LOWER LEVEL PART PLAN - DRAINAGE
SCALE: 1:50



EXISTING LOWER LEVEL PART PLAN - HYDRONIC HEATING
SCALE: 1:50



EXISTING LOWER LEVEL PART PLAN - VENTILATION
SCALE: 1:50



EXISTING LOWER LEVEL PART PLAN - FIRE PROTECTION
SCALE: 1:50

GENERAL DEMOLITION NOTES

- A. EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- B. EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- C. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- D. ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- E. PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- F. REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- G. MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- H. INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- I. THIS CONTRACTOR IS TO REMOVE & REPLACE CEILING AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

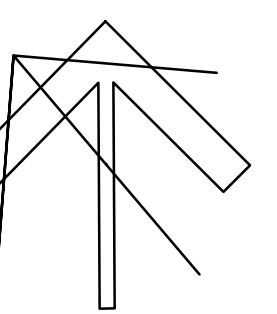
SPECIFIC DEMOLITION NOTES

1. EXISTING SAN SERVING WASHROOM TO BE REMOVED AS INDICATED.
2. EXISTING WC AND ASSOCIATED SAN TO BE REMOVED COMPLETE.
3. EXISTING WF TO BE REMOVED COMPLETE. EXISTING SAN TO BE CUT, CAPPED IN WALL AND REMOVED COMPLETE.
4. EXISTING FLOOR DRAIN TO BE REMOVED COMPLETE.
5. EXISTING URINAL AND ASSOCIATED SAN TO BE REMOVED COMPLETE.
6. EXISTING SAN TO BE CUT, CAPPED, AND REMOVED COMPLETE AS INDICATED.
7. EXISTING SAN ABOVE FLOOR TO BE CUT AND REMOVED COMPLETE AS INDICATED.
8. EXISTING RADIANT CEILING PANEL TO BE DISCONNECTED AND REINSTALLED TO SUIT NEW CEILING LAYOUT.
9. EXISTING SPRINKLER PIPING AND ASSOCIATED SPRINKLER HEAD TO BE REMOVED COMPLETE.
10. EXISTING HEATER TO BE DISCONNECTED AND REMOVED COMPLETE.
11. EXISTING HWS/R PIPING TO BE CUT AND REMOVED BEYOND COMPLETE.
12. EXISTING THERMOSTAT AND ASSOCIATED CONTROL WIRE TO BE DISCONNECTED AND REMOVED COMPLETE.
13. EXISTING THERMOSTAT WIRE TO BE REMOVED COMPLETE.
14. EXISTING EXH DUCT AND ALL ASSOCIATED GRILLES TO BE CUT AND REMOVED BEYOND COMPLETE.
15. EXISTING GRILLE TO BE REMOVED COMPLETE. REPAIR OPENING IN WALL AS REQUIRED TO SUIT NEW DUCT CONNECTION.
16. EXISTING DUCT AND ASSOCIATED DIFFUSER TO BE CUT AND REMOVED COMPLETE.
17. EXISTING SPRINKLER HEAD TO BE CUT AND REMOVED COMPLETE.
18. EXISTING SAN SERVING DRINKING FOUNTAIN TO BE CUT REMOVED BACK TO SOURCE AND CAPPED.
19. EXISTING SECTION OF SPRINKLER PIPE TO BE REMOVED AND REWORKED TO SUIT NEW ROOM LAYOUT.

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| 1 | 22.02.08 | | |

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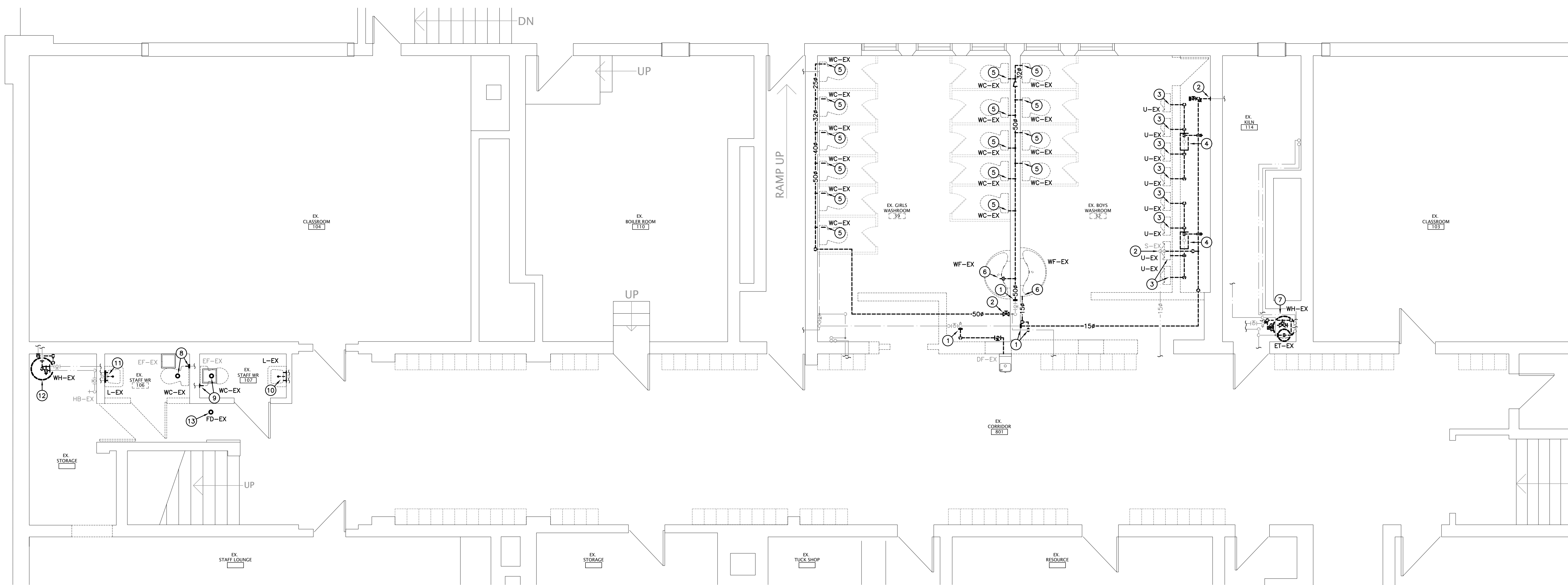


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Project Number: 20251



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| | |
|--|--------------------------------|
| DRAWING TITLE: LOWER LEVEL WASHROOM PLANS - DEMOLITION | |
| PROJECT NO: A20002.6 | SCALE: AS NOTED |
| DRAWN: AH | DRAWING NO. REV. M201 1 |
| CHECKED: AH | |
| DATE: FEB 2022 | |



EXISTING LOWER LEVEL PART PLAN – PLUMBING
SCALE: 1:50

GENERAL DEMOLITION NOTES

- A. EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- B. EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- C. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- D. ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- E. PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- F. REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- G. MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- H. INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- I. THIS CONTRACTOR IS TO REMOVE & REPLACE CEILING AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

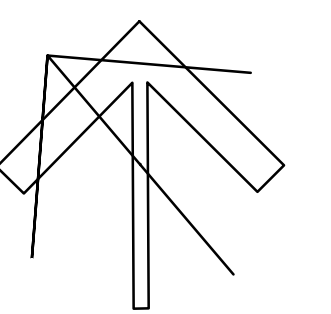
SPECIFIC DEMOLITION NOTES

- 1. EXISTING CW TO BE CUT, CAPPED AND REMOVED COMPLETE.
- 2. EXISTING CW TO BE CUT AND REMOVED AS INDICATED.
- 3. EXISTING URINAL AND ASSOCIATED CW TO BE DISCONNECTED AND REMOVED COMPLETE.
- 4. EXISTING URINAL TANK AND ALL ASSOCIATED PIPING TO BE DISCONNECTED AND REMOVED COMPLETE.
- 5. EXISTING WC AND ASSOCIATED CW TO BE DISCONNECTED AND REMOVED COMPLETE.
- 6. EXISTING WASH FOUNTAIN AND ASSOCIATED WATER PIPING TO BE DISCONNECTED AND REMOVED COMPLETE.
- 7. EXISTING WATER HEATER TO BE DISCONNECTED AND REMOVED. (COORDINATE RETURN OF WATER HEATER TO OWNER RENTAL CO OR DISPOSAL IF NOT RENTED.) EXISTING CW TO BE CUT, CAPPED WHERE INDICATED AND REMOVED COMPLETE. EXISTING HW TO BE CUT, REMOVED/REWORKED TO SUIT NEW LOCATION OF SINGLE CENTRAL WATER HEATER. REFER TO RENOVATION PLANS.
- 8. EXISTING WC TO BE DISCONNECTED AND REMOVED COMPLETE. EXISTING CW TO BE CUT CAPPED IN WALL AND REMOVED COMPLETE. EXISTING SAN TO BE CUT, CAPPED BELOW FLOOR AND REMOVED COMPLETE.
- 9. EXISTING WC TO BE DISCONNECTED AND REMOVED COMPLETE. EXISTING CW AND SAN TO BE REWORKED TO SERVE NEW WC.
- 10. EXISTING LAV TO BE DISCONNECTED AND REMOVED COMPLETE. EXISTING SAN, H&CW TO BE REWORKED TO SERVE NEW LAV.
- 11. EXISTING LAV TO BE DISCONNECTED AND REMOVED COMPLETE. EXISTING SAN, H&CW TO BE CUT, CAPPED, AND REMOVED COMPLETE.
- 12. EXISTING WATER HEATER TO BE DISCONNECTED AND REMOVED. (COORDINATE RETURN OF WATER HEATER TO OWNER RENTAL CO OR DISPOSAL IF NOT RENTED.) EXISTING CW TO BE CUT WHERE INDICATED AND REMOVED COMPLETE. EXISTING HW TO BE CUT, REMOVED/REWORKED TO SUIT NEW LOCATION OF SINGLE CENTRAL WATER HEATER. REFER TO RENOVATION PLANS.
- 13. EXISTING FLOOR DRAIN INCLUDING TRAP TO BE REMOVED. NEW CLEANOUT INSTALLED.

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The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as shown or actual building construction will prevail. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets, fittings and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not issue this drawing. © 2022 DEI & Associates Inc.

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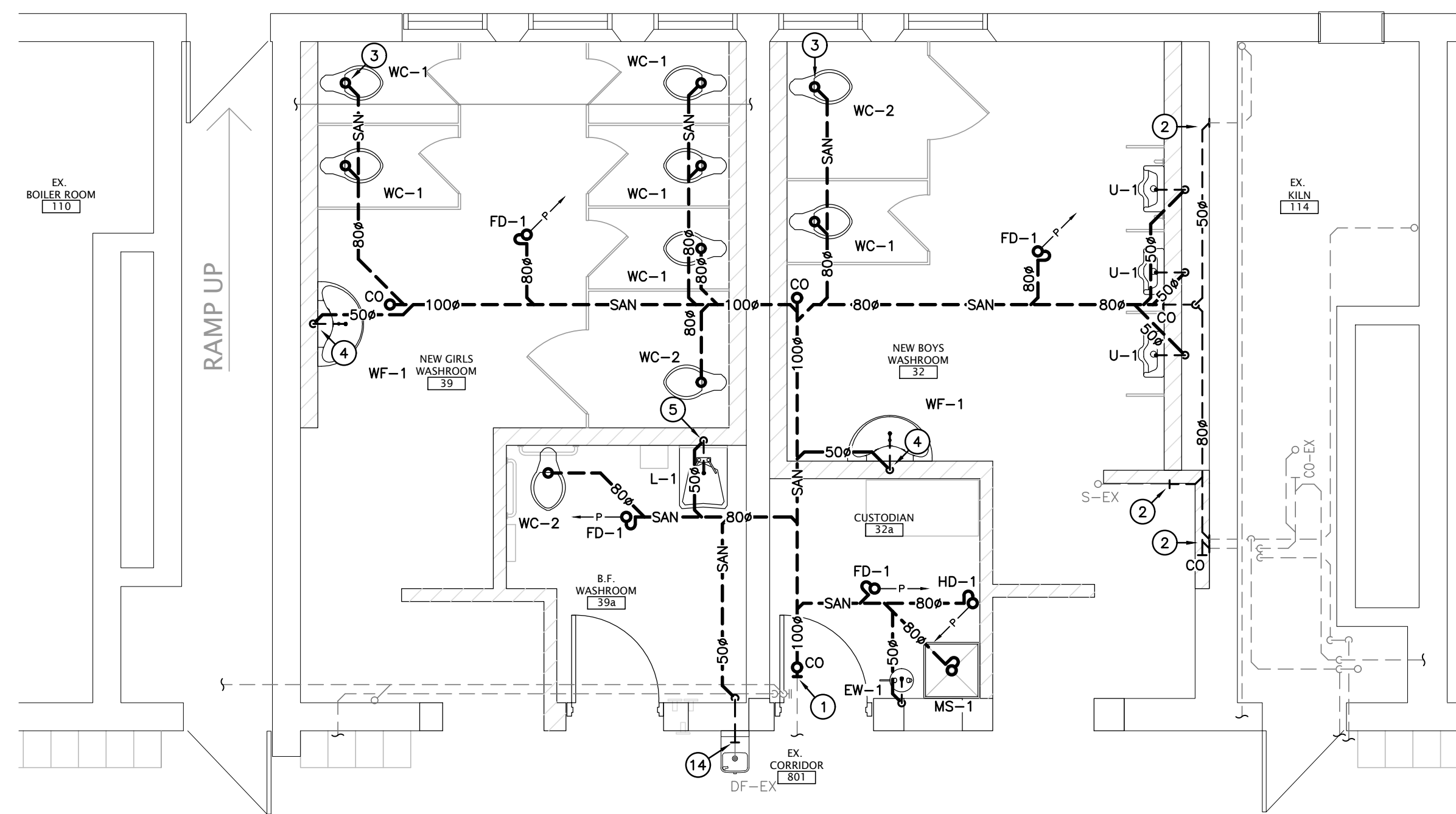


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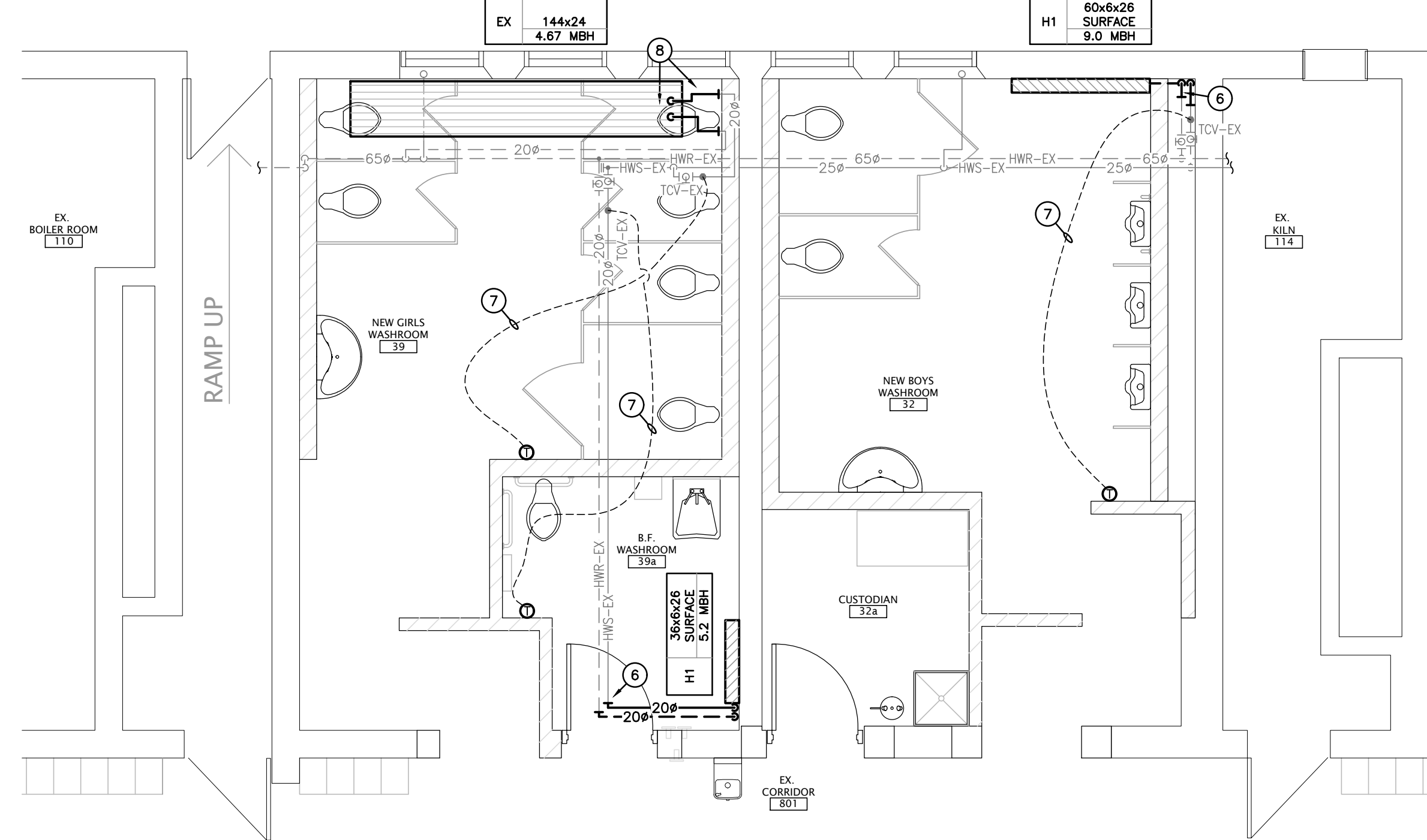


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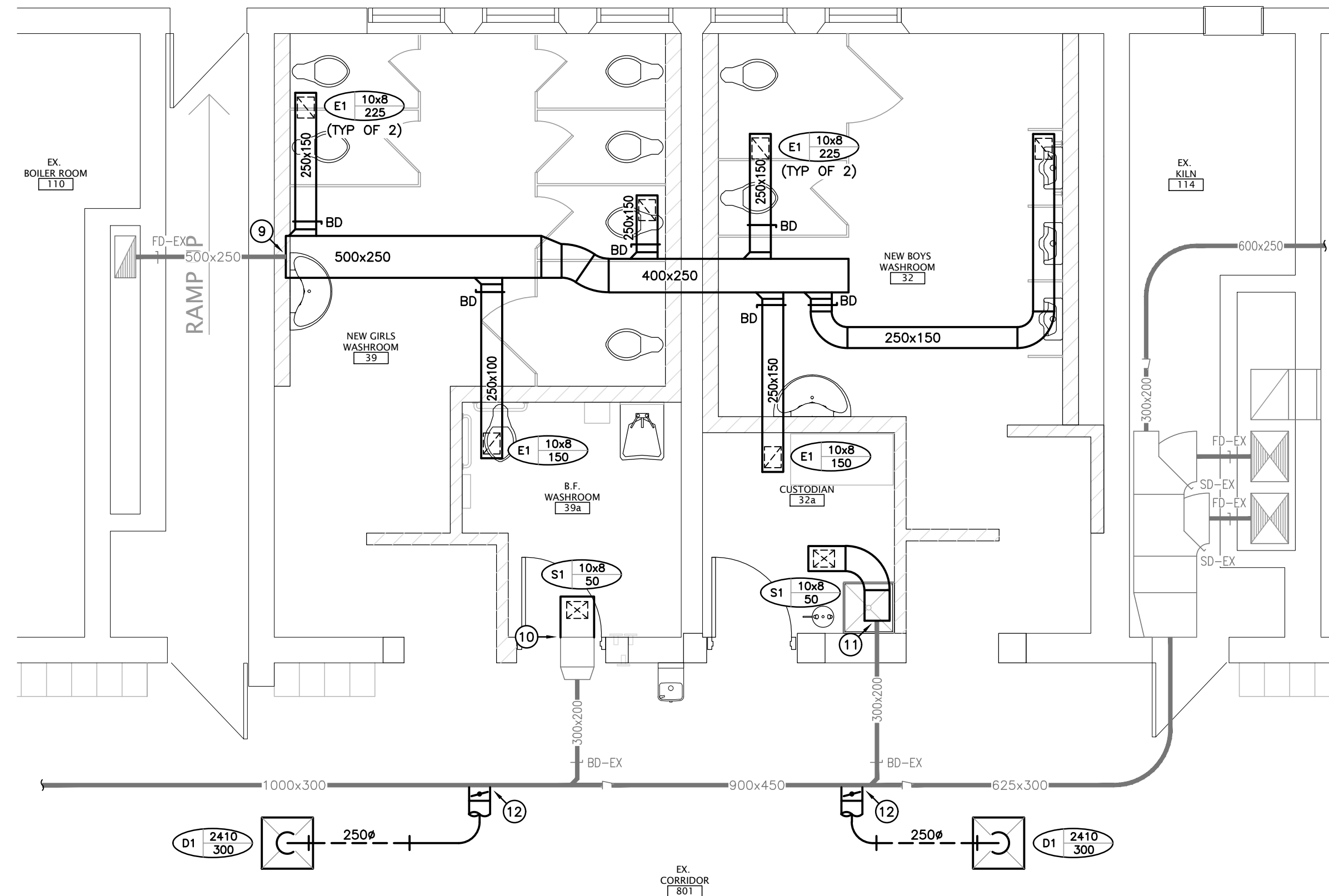
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| PROJECT NO: A20002.6 | SCALE: AS NOTED |
| DRAWN: AH | DRAWING NO. REV. M202 1 |
| CHECKED: AH | |
| DATE: FEB 2022 | |



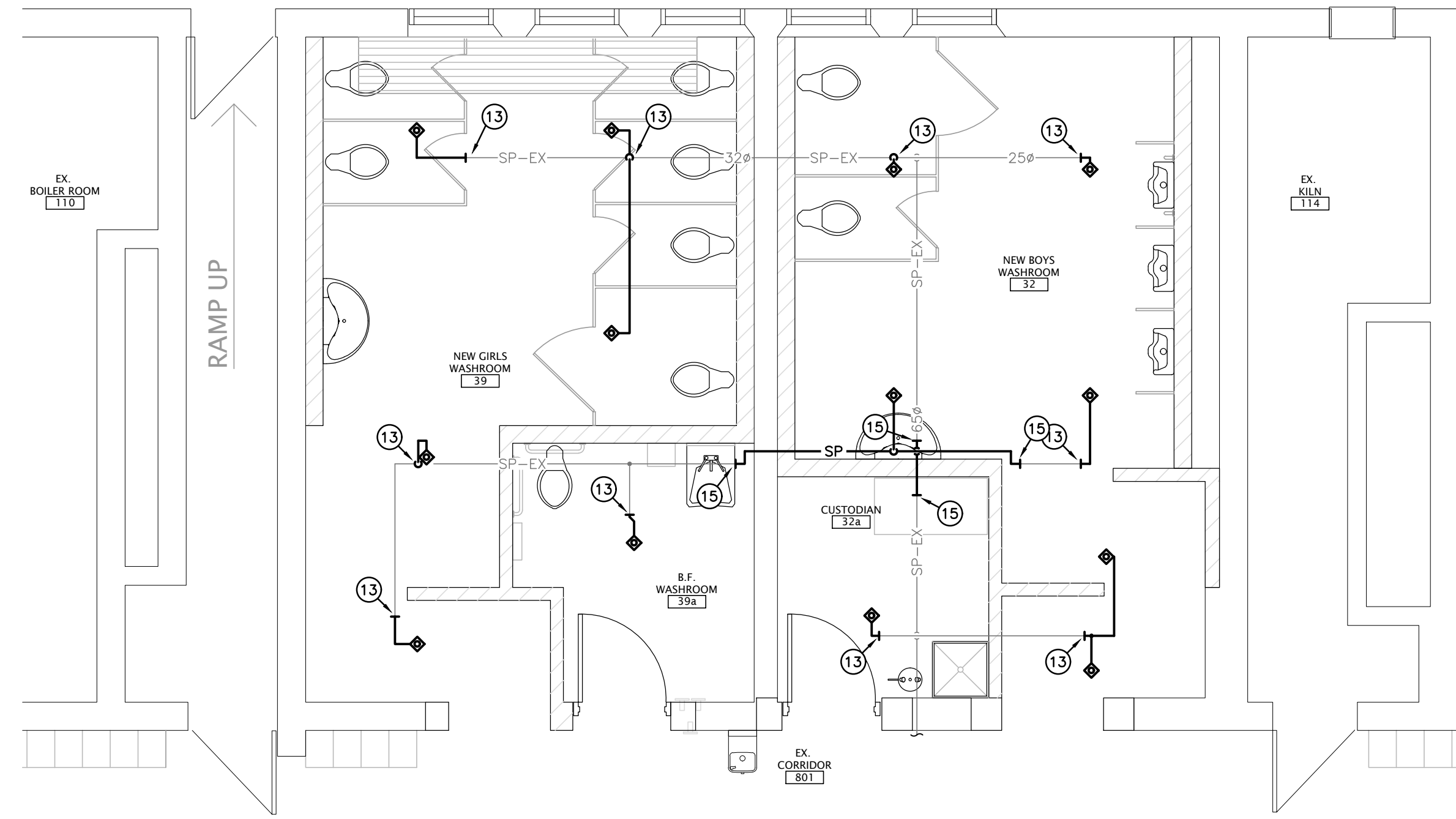
LOWER LEVEL PART PLAN - DRAINAGE
SCALE: 1:50



LOWER LEVEL PART PLAN - HYDRONIC HEATING
SCALE: 1:50



LOWER LEVEL PART PLAN - VENTILATION
SCALE: 1:50



LOWER LEVEL PART PLAN - FIRE PROTECTION
SCALE: 1:50

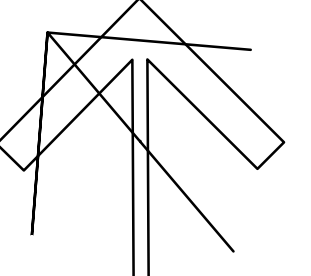
GENERAL RENOVATION NOTES

1. CONNECT NEW 100# SAN TO EXISTING SAN MAIN BELOW FLOOR C/W NEW CLEANOUT.
2. CONNECT NEW SAN TO EXISTING CUT CONNECTION AND ROUTE TO NEW SAN MAIN BELOW FLOOR. SIZE OF NEW ABOVE GRADE SAN TO MATCH EXISTING.
3. 80# SAN IN FLOOR SERVING WATER CLOSET (TYP).
4. 40# SAN SERVING WASH FOUNTAIN.
5. 32# SAN SERVING LAV.
6. CONNECT NEW 20# HWS/R TO EXISTING CUT CONNECTIONS AND EXTEND TO NEW HEATER.
7. WIRE EXISTING TCV TO NEW THERMOSTAT.
8. REINSTALL EXISTING RADIATION PANEL IN NEW CEILING. RECONNECT EXISTING HWS/R TO RELOCATED RADIANT PANEL.
9. CONNECT NEW 500x250 EXH DUCT TO EXISTING CUT CONNECTION AND EXTEND AS INDICATED.
10. CONNECT NEW 400x200 EXH DUCT TO EXISTING CUT CONNECTION AND EXTEND AS INDICATED.
11. CONNECT NEW 300x200 EXH DUCT TO EXISTING CUT CONNECTION AND EXTEND AS INDICATED.
12. CONNECT NEW 250# SA DUCT C/W BALANCING DAMPER TO EXISTING SA MAIN AND EXTEND TO NEW DIFFUSER.
13. CONNECTED NEW SPRINKLER PIPE TO EXISTING AND ROUTE TO NEW SPRINKLER HEAD(S).
14. RECONNECT DRINKING FOUNTAIN TO ALL SAN AND DN IN CHASE.
15. CONNECT NEW SPRINKLER PIPE TO EXISTING CUT CONNECTION. SIZE TO MATCH EXISTING.

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| 1 | 22.02.08 | | |

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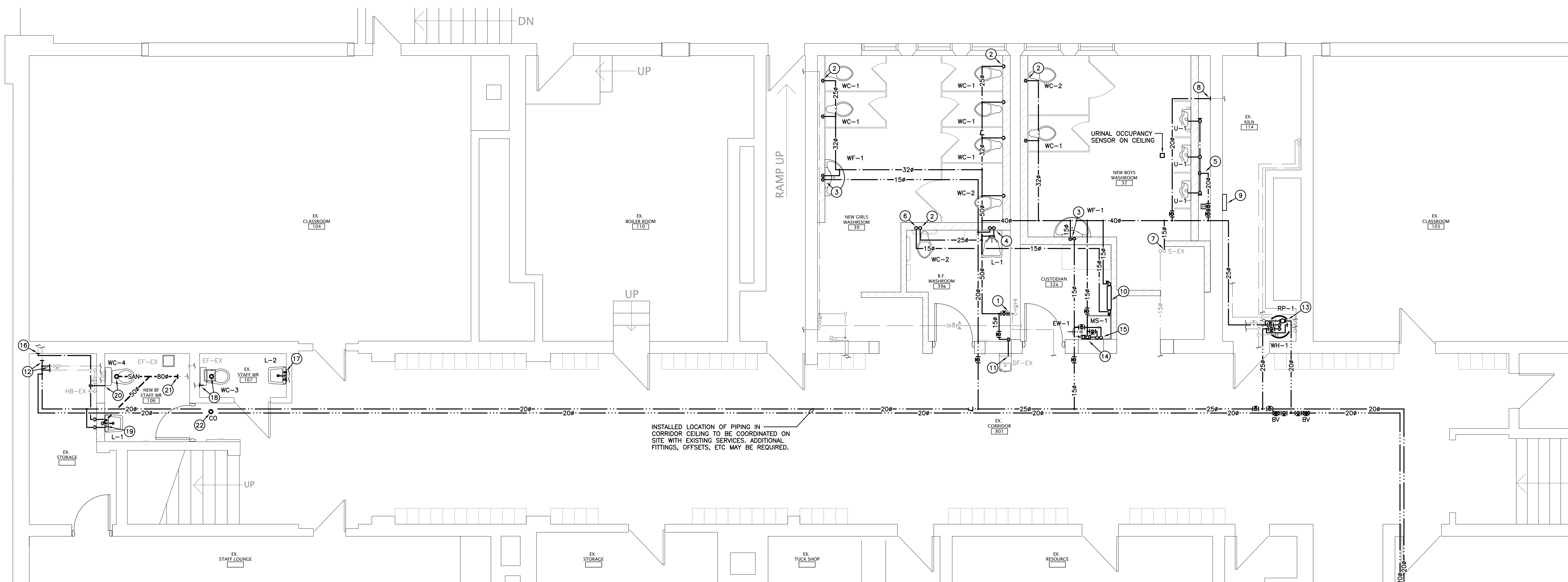


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| DRAWING TITLE: LOWER LEVEL WASHROOM PLANS - RENOVATION | |
| PROJECT NO: A20002.6 | SCALE: AS NOTED |
| DRAWN: AH | DRAWING NO. / REV. M301 / 1 |
| CHECKED: AH | DATE: FEB 2022 |



LOWER LEVEL PART PLAN – PLUMBING
SCALE: 1:50

GENERAL RENOVATION NOTES

1. CONNECT NEW 50# CW TO EXISTING CUT CONNECTION AND EXTEND TO SERVE NEW FIXTURES.
2. 25# CW SERVING WATER CLOSET (TYP).
3. 15# H&W SAN SERVING WASH FOUNTAIN.
4. 15# H&W SERVING LAV.
5. 32# CW HEADER IN CHASE SERVING URINALS. 20# CW FROM HEADER TO EACH URINAL C/W URINAL FLUSHING CONTROL PANEL AND SENSOR.
6. 15# CW DN TO CW ROUGHIN FOR FUTURE BIDET SEAT. PROVIDE STOP.
7. CONNECT NEW 15# CW TO EXISTING CW UP THRU FLOOR.
8. CONNECT NEW 20# CW TO EXISTING CUT CONNECTION.
9. URINAL CONTROL PANEL MOUNTED ON WALL ABOVE CEILING.
10. NEW 15# CW ROUTE TO RP BACKFLOW DEVICE. ROUTE CW BACK TO W/R'S FOR FUTURE BIDET. MOUNT RP BFD ON WALL WITHIN 1200MM AFF. PIPE DRAIN TO MS. LOCATE RP ON SUITABLE WALL SURFACE IN ROOM.
11. CONNECT NEW 15# CW TO EXISTING DRINKING FOUNTAIN.
12. CONNECT NEW 20# HW TO EXISTING CUT CONNECTIONS. REDUCE NEW CW AS REQUIRED TO SUIT EXISTING PIPE SIZE(S).
13. CONNECT NEW 25# CW AND HW TO NEW WATER HEATER. CONNECT NEW HW TO EXISTING CUT CONNECTION C/W ISOLATION VALVE. REDUCE HW AS REQUIRED TO SUIT EXISTING PIPE SIZE.
14. 15# H&W DN TO MIXING VALVE ON WALL. 15# TW UP TO EYEWASH ABOVE.
15. 15# H&W DN SERVING MOP SINK.
16. CONNECT NEW 15# CW TO EXISTING CUT CONNECTION AND EXTEND TO SERVE NEW FIXTURES.
17. CONNECT NEW 32# SAN, 15# H&W TO EXISTING CUT CONNECTION AND CONNECT TO NEW LAV.
18. CONNECT NEW 15# CW TO EXISTING CUT CONNECTIONS AND REWORK EXISTING TOILET FLANGE TO SERVE NEW WC.
19. NEW 32# SAN, 15# H&W SERVING NEW LAV.
20. 15# CW AND 80# SAN SERVING WC.
21. CONNECT NEW 80# SAN TO EXISTING CUT CONNECTION SERVING REMOVED WC AND EXTEND TO SERVE NEW FIXTURES.
22. PROVIDE NEW CLEANOUT, BREAK FLOOR AT REMOVED FLOOR DRAIN & REPAIR/REPLACE PIPE TO ALLOW NEW FLOOR CLEANOUT.

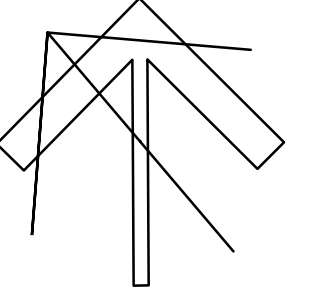
GENERAL NOTES

- A. DWGS ARE DIAGRAMATIC. EXACT LOCATION & ROUTE OF PIPING TO BE COORDINATED ON SITE BY CONTRACTOR WITH EXISTING SERVICES IN CEILING SPACE.

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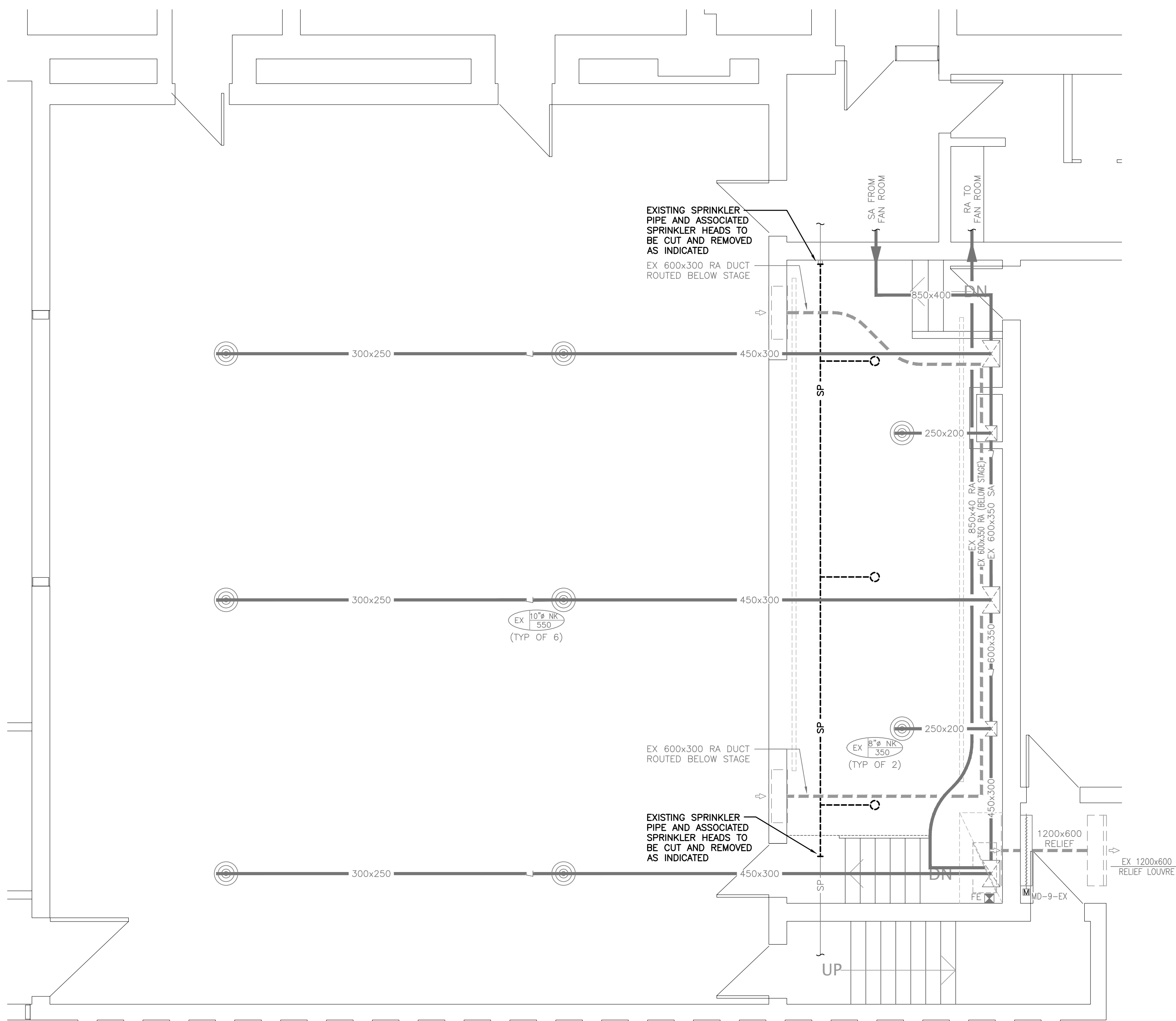


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Project Number: 20251

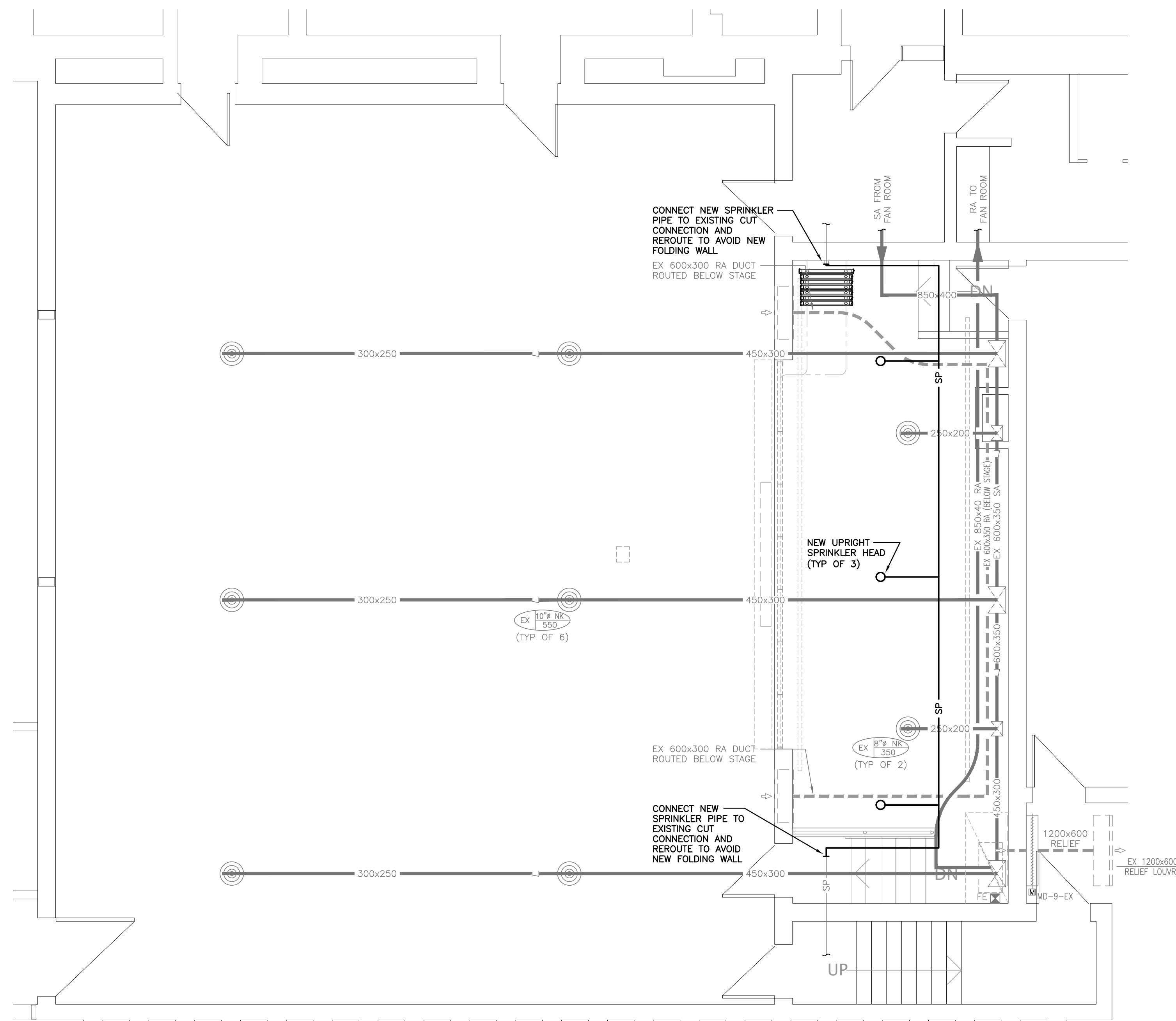


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| DRAWING TITLE: LOWER LEVEL PART PLAN - RENOVATION | |
| PROJECT NO: A20002.6 | SCALE: AS NOTED |
| DRAWN: AH | DRAWING NO. REV. M302 1 |
| CHECKED: AH | |
| DATE: FEB 2022 | |



EXISTING LOWER LEVEL GYM PLAN - DEMOLITION
SCALE: 1:50

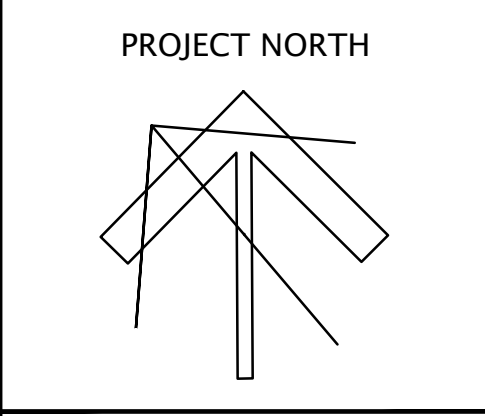


LOWER LEVEL GYM PLAN - RENOVATION
SCALE: 1:50

GENERAL DEMOLITION NOTES

- A. EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- B. EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
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- F. REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
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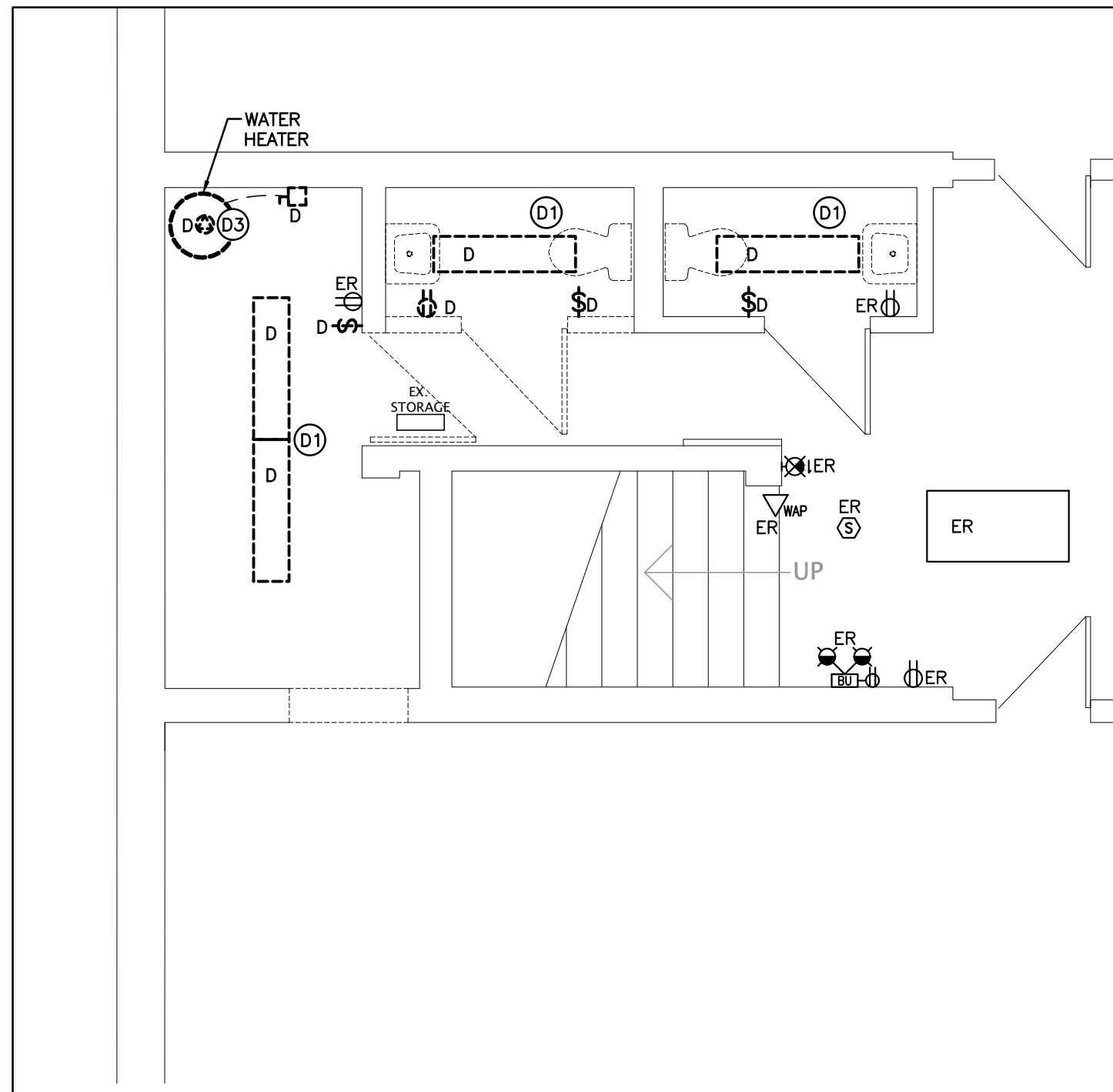
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Project Number: 20555



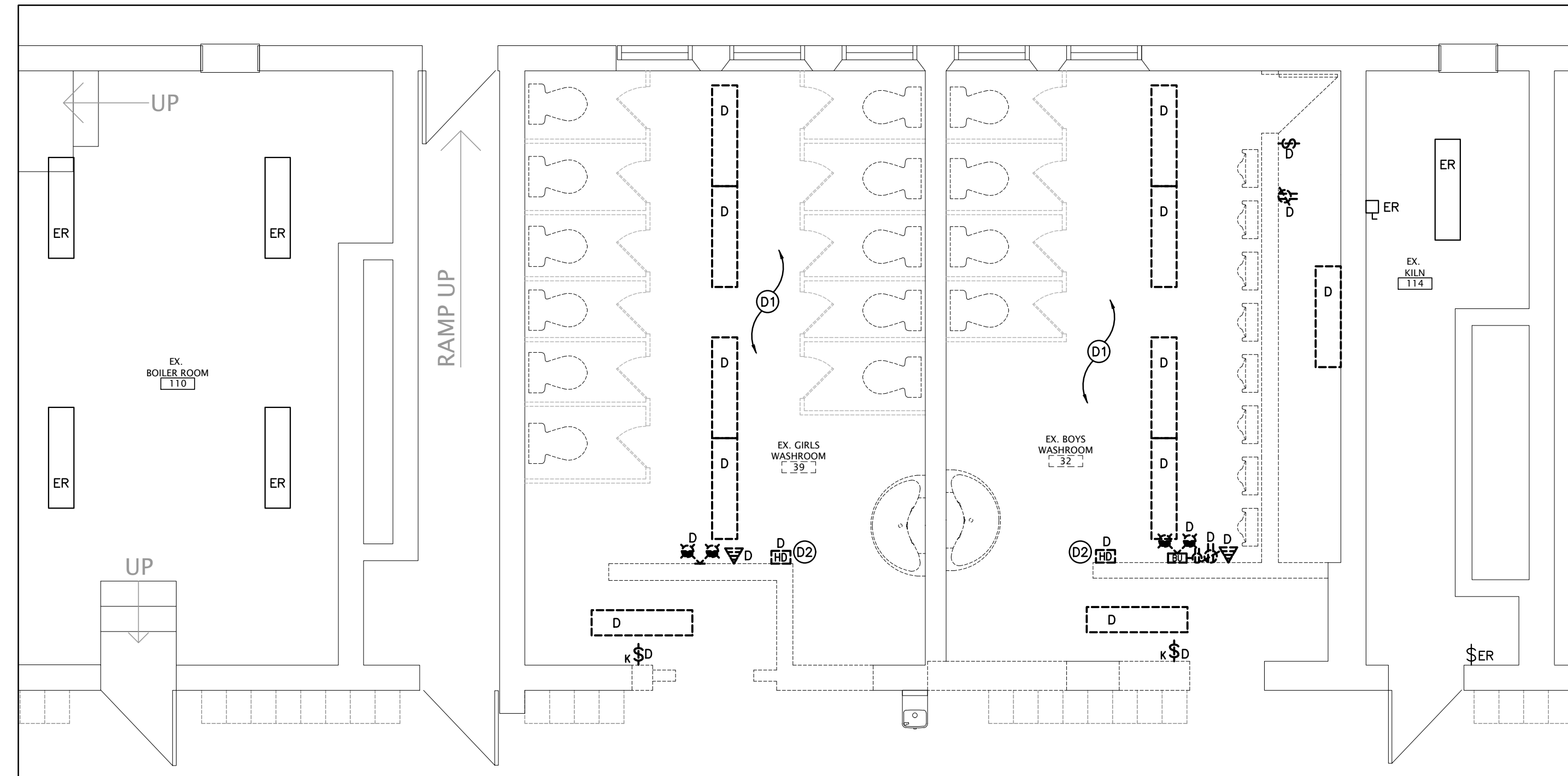
WATERLOO REGION DISTRICT SCHOOL BOARD
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65 Victoria Ave
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N1S 2V1

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| DRAWING TITLE: LOWER LEVEL PART PLAN - GYM DEMO / RENO | |
| PROJECT NO: A20002.6 | SCALE: AS NOTED |
| DRAWN: AH | DRAWING NO. / REV. M303 / 1 |
| CHECKED: AH | |
| DATE: FEB 2022 | |

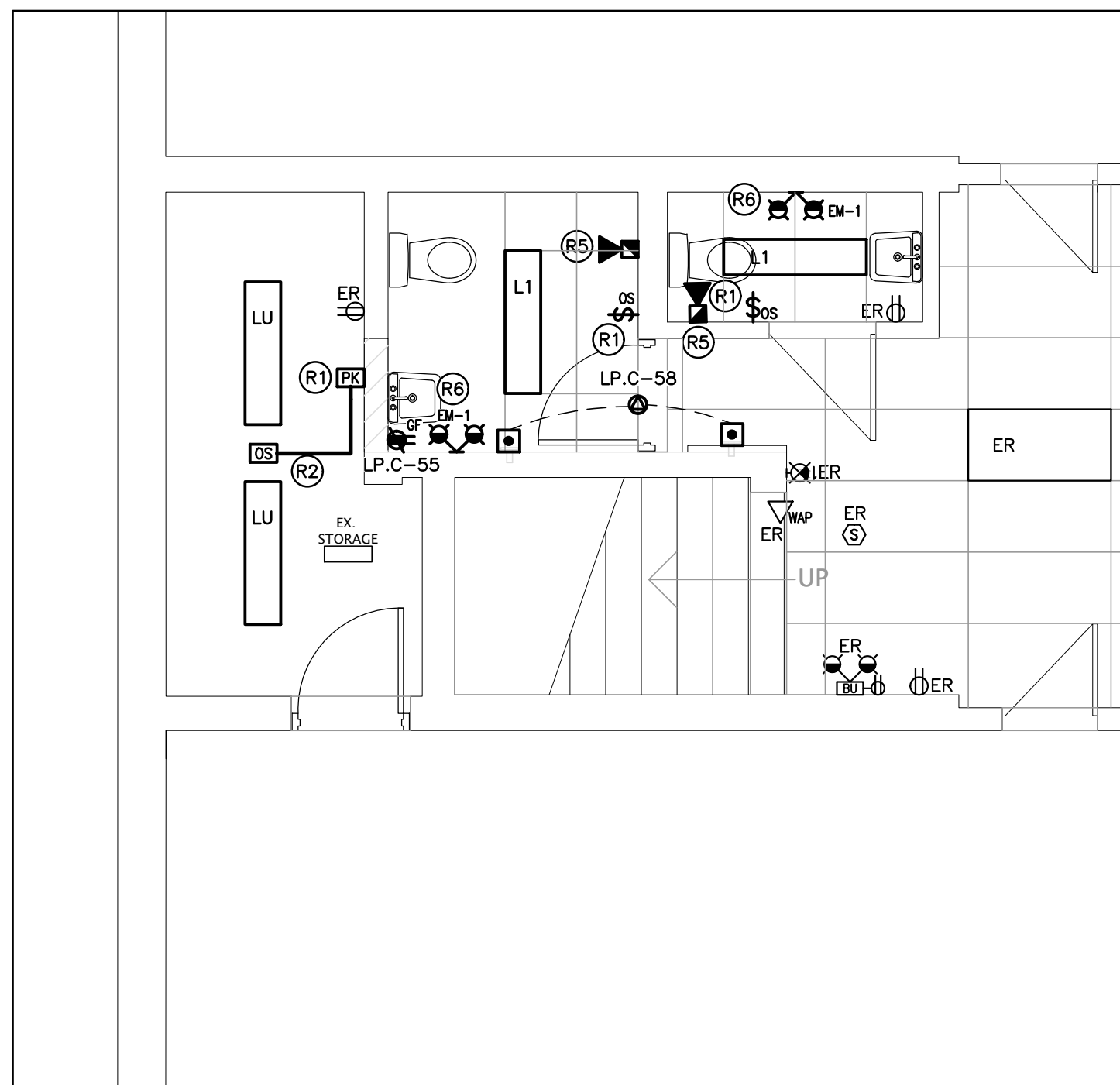
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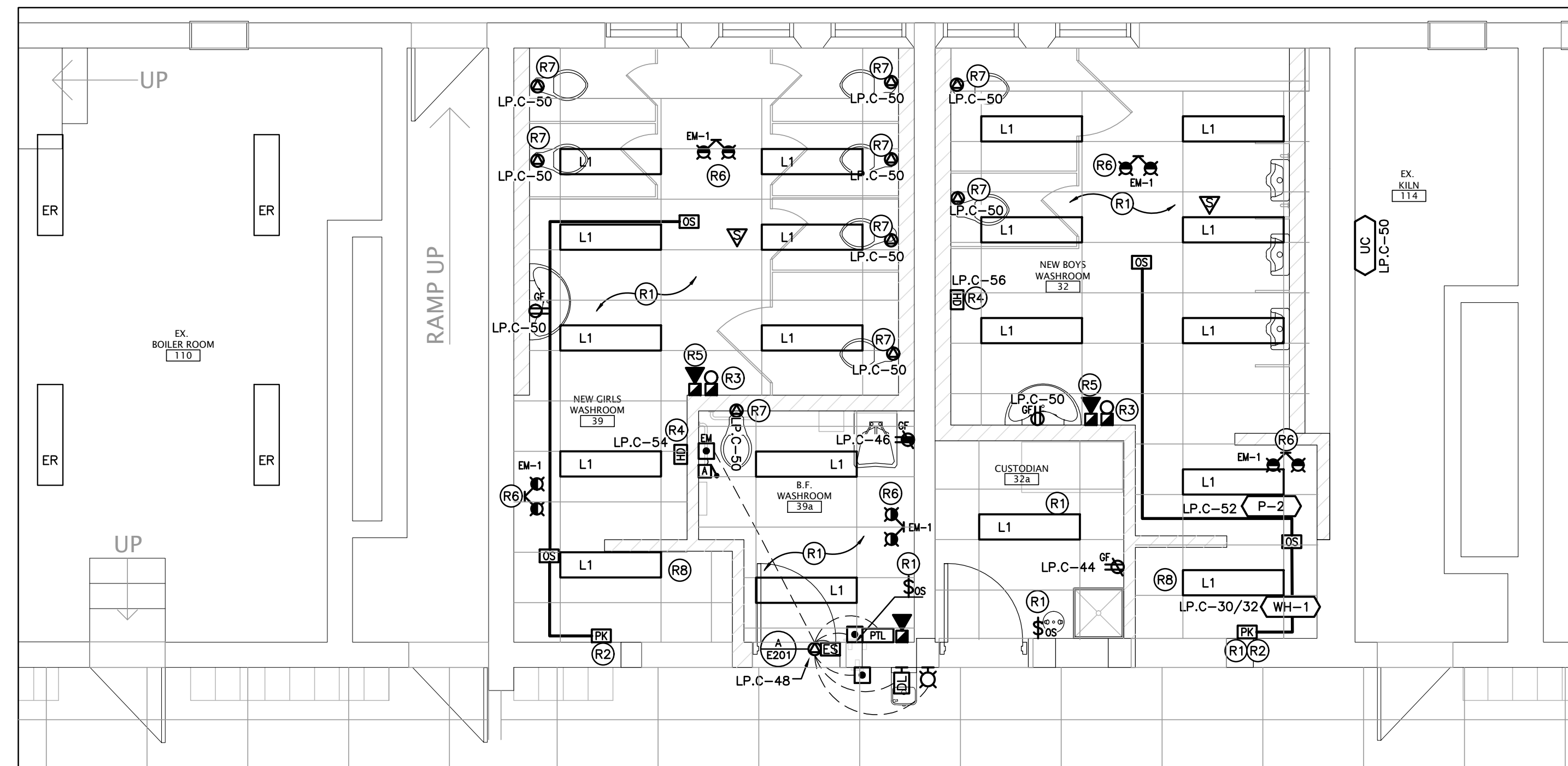
PARTIAL LOWER FLOOR PLAN STORAGE DEMOLITION
SCALE: 1:50



PARTIAL LOWER FLOOR PLAN WASHROOMS DEMOLITION
SCALE: 1:50



PARTIAL LOWER FLOOR PLAN STORAGE RENOVATION
SCALE: 1:50



PARTIAL LOWER FLOOR PLAN WASHROOMS RENOVATION
SCALE: 1:50

GENERAL DEMOLITION NOTES

- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

SPECIFIC DEMOLITION NOTES

- D1 INDICATES FIXTURES AND CONTROLS TO BE REMOVED. EXISTING CIRCUIT TO REMAIN FOR CONNECTION TO NEW FIXTURES AND CONTROLS, REFER TO RENOVATION PLANS.
- D2 INDICATES EXISTING HAND DRYER TO BE REMOVED. ELECTRICAL CONTRACTOR IS TO MAINTAIN AND EXTEND EXISTING CIRCUIT AND RECONNECT TO NEW HAND DRYER, REFER TO RENOVATION PLAN FOR FURTHER INFORMATION.
- D3 INDICATES MECHANICAL EQUIPMENT BEING REMOVED BY MECHANICAL TRADE. THIS CONTRACTOR IS TO DISCONNECT AND REMOVE FEEDER BACK TO SOURCE. DISCONNECT AND REMOVE ALL CONTROL DEVICES. LABEL SOURCE DEVICE AS SPARE.

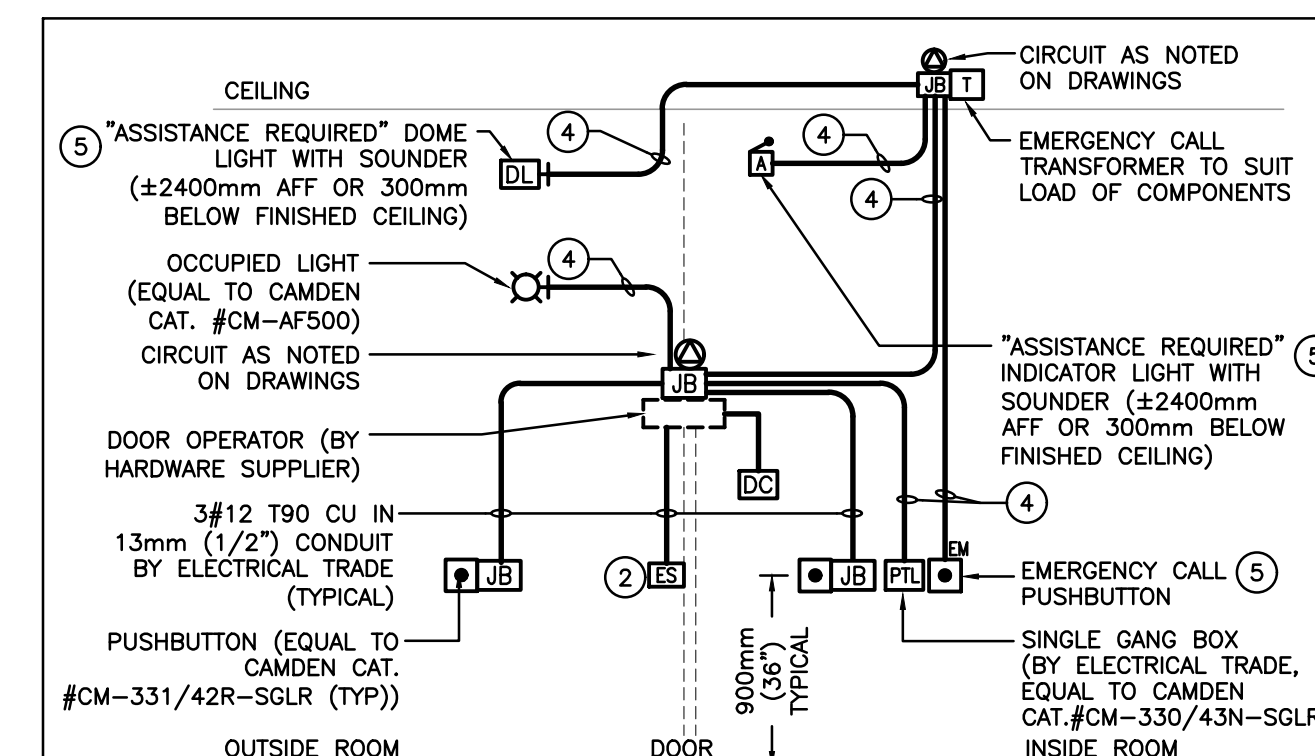
GENERAL RENOVATION NOTES

- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

- R1 INDICATES FIXTURES TO BE CONNECTED TO EXISTING CIRCUIT AND NEW CONTROLS AS SHOWN.
- R2 INDICATES POWER PACK INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED MOTION SENSOR(S). REFER TO LIGHTING CONTROL DETAILS.
- R3 INDICATES NEW F/A BELL TO BE CONNECTED TO EXISTING SIGNAL CIRCUIT.
- R4 CONNECT HAND DRYER TO EXISTING CIRCUIT, EXTEND CIRCUIT AS REQUIRED.
- R5 INDICATES NEW FIRE ALARM STROBE TO BE INSTALLED ON NEW SIGNAL CIRCUIT. CONTRACTOR IS TO PROVIDE BOOSTER MODULE FOR NEW SIGNAL DEVICE(S).
- R6 CONNECT NEW EMERGENCY BATTERY UNIT TO UNSWITCHED SIDE OF EXISTING LIGHTING BRANCH CIRCUIT WHICH SERVES THIS AREA.
- R7 INDICATES 120V FEED TO 24VDC STEP DOWN TRANSFORMER MOUNTED ABOVE CEILING OR AT A HIGH LEVEL FOR AUTOMATIC PLUMBING FIXTURE(S). COORDINATE WITH MECHANICAL TRADE.
- R8 INDICATED FIXTURE TO BE CONNECTED AND CONTROLLED WITH CORRIDOR LIGHTING.

ALL RECEPTACLES ARE TO BE TAMPER RESISTANT TYPE PER 2019 OESC CODE UPDATES - RULE 26-706.

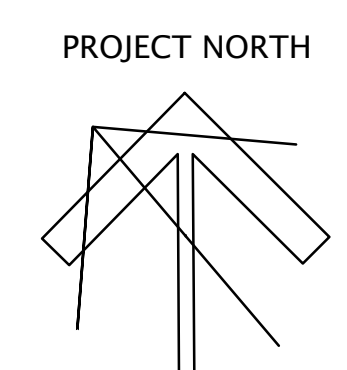


- THIS CONTRACTOR IS TO MAKE ALL CONNECTIONS TO ALL DEVICES AS SUPPLIED BY THE HARDWARE CONTRACTOR. P.A. SUB-CONTRACTOR TO PROVIDE AND INSTALL EMERGENCY CALL AND INTERFACE CONTROLLER. ALL OTHER DEVICES BY HARDWARE CONTRACTOR.
- WHEN EMERGENCY CALL STATION IS ENGAGED, ELECTRIC STRIKE IS TO DISENGAGE TO ALLOW FOR ACCESS TO ROOM. CO-ORDINATE REQUIRED CONNECTIONS WITH THE HARDWARE SUPPLIER. REFER TO NOTE 3.
- CONNECT OUTPUT RELAY OF P.A. SYSTEM DOOR PHONE HARDWARE CONTROLLER TO INPUT CONTACTS OF DOOR ACCESSORIES CONTROLLER.
- PROVIDE LOW VOLTAGE INTERCONNECT WIRING TO SUIT SUPPLIER. FOR PRICING PURPOSES ALLOW 4c#18 IN 13mmC.
- ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL UNIVERSAL WASHROOM KIT EQUAL TO CAMDEN CAT.#CX-WEC10.

A-EMERGENCY CALL / DOOR OPERATOR DETAIL
SCALE: NTS

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The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not include all utility piping and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2022 DEI & Associates Inc.



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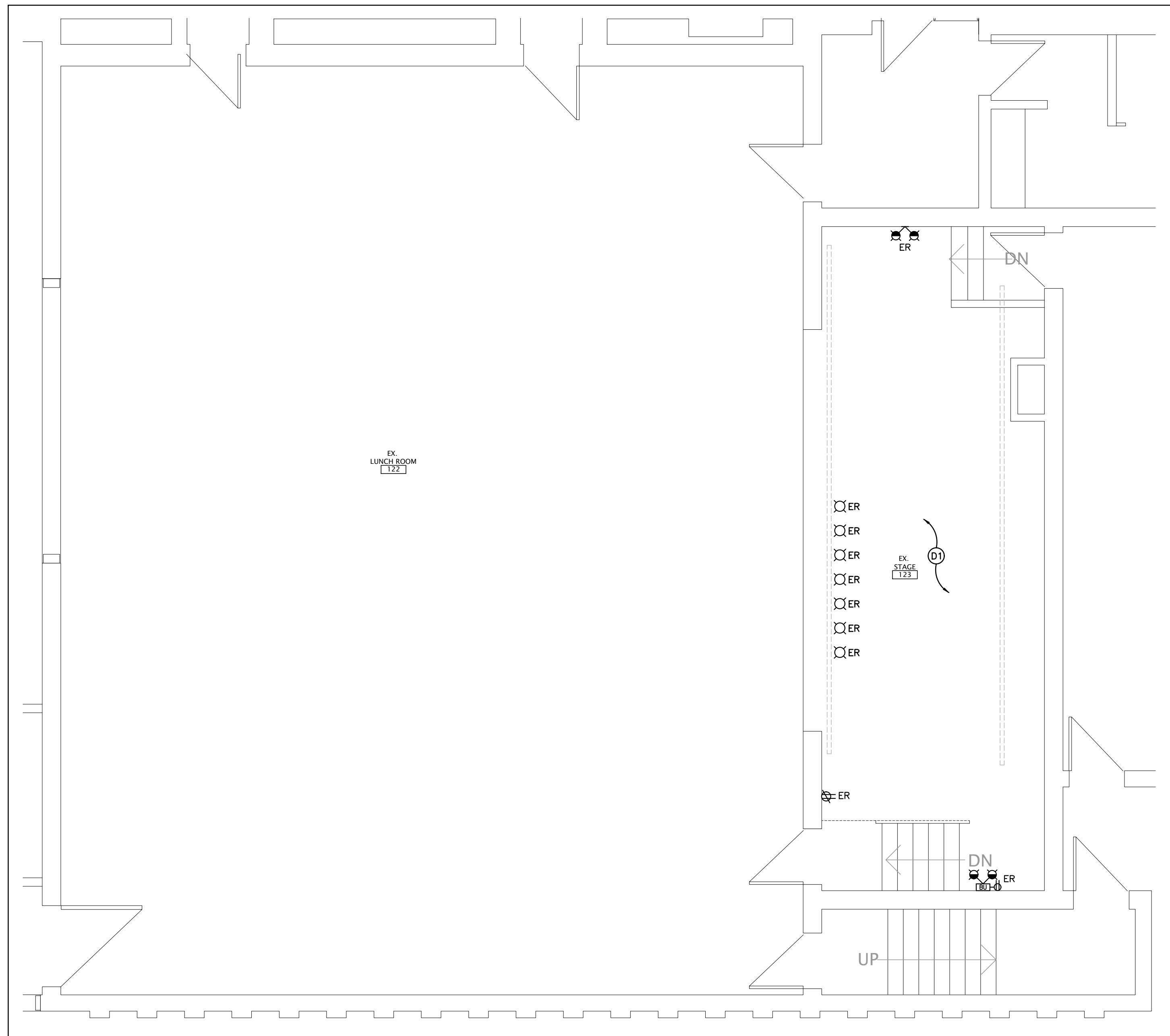


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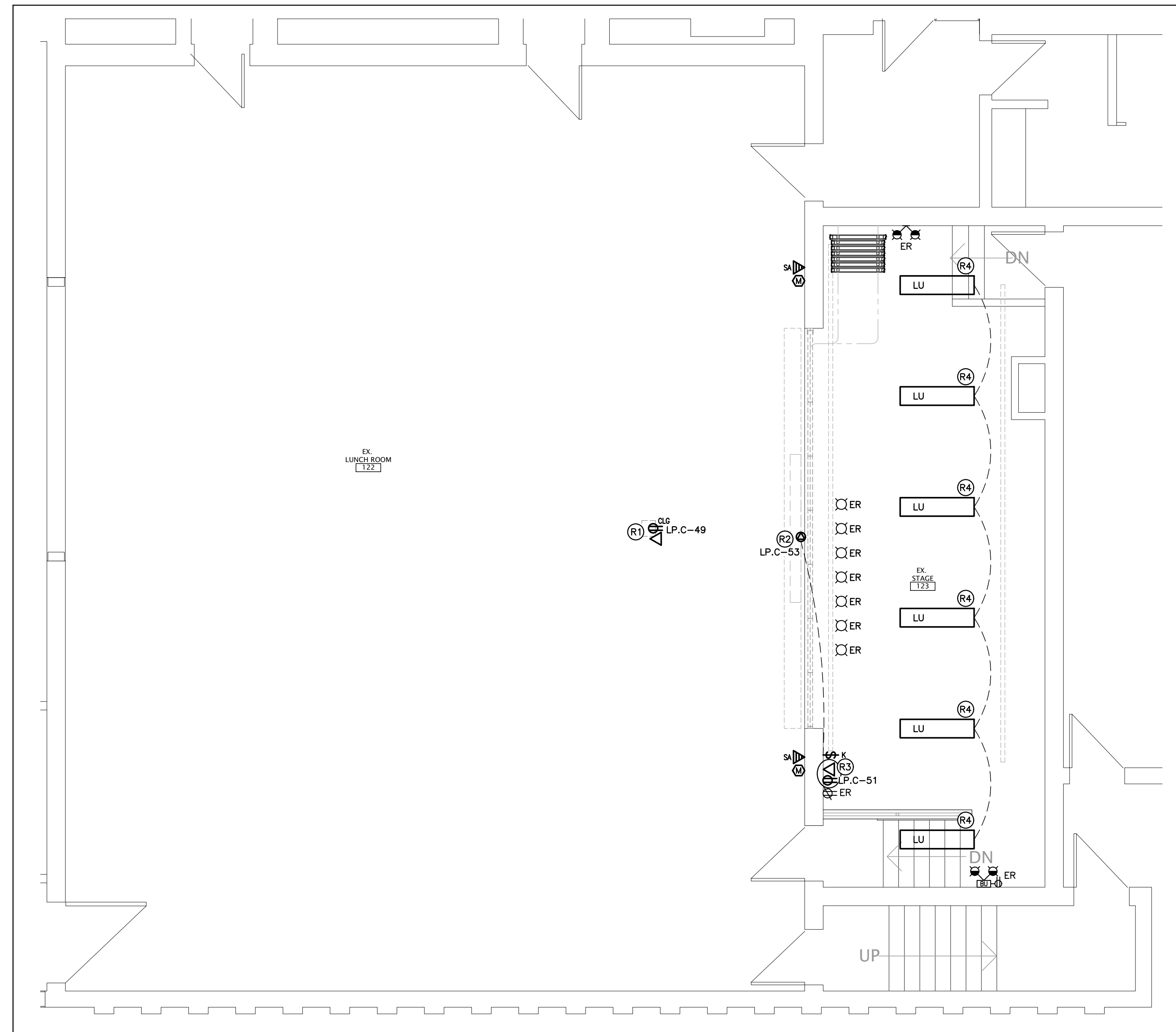
65 Victoria Ave
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DRAWING TITLE:
ELECTRICAL DEMOLITION AND RENOVATION PLANS

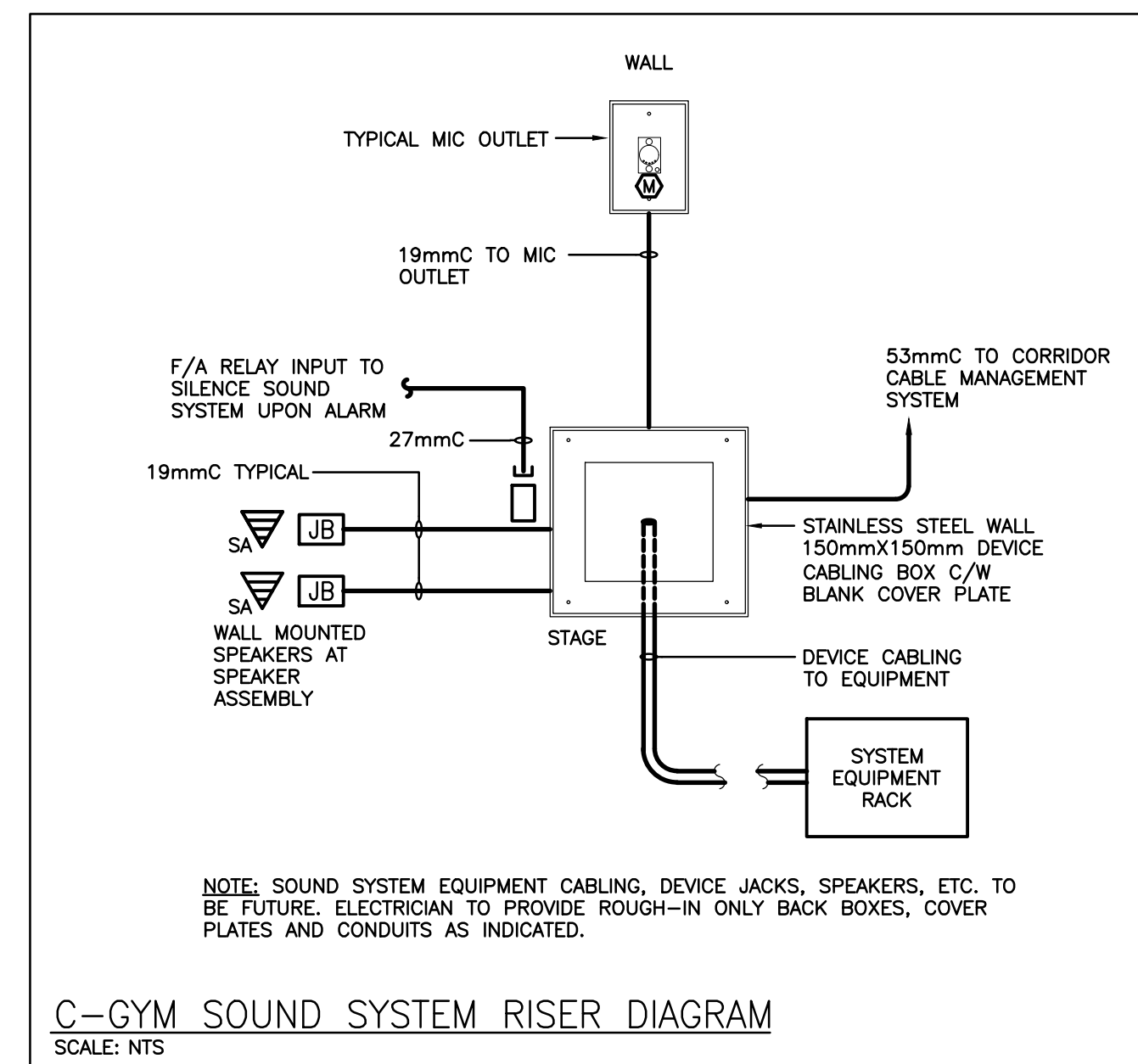
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A—EXISTING LOWER LEVEL GYM PLAN — DEMOLITION
SCALE: 1:50



B—LOWER LEVEL GYM PLAN — RENOVATION
SCALE: 1:50



C—GYM SOUND SYSTEM RISER DIAGRAM
SCALE: NTS

GENERAL RENOVATION NOTES

- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC DEMOLITION NOTES

- D1 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES IN THIS AREA. EXISTING CIRCUIT TO REMAIN FOR CONNECTION TO NEW FIXTURES AND CONTROLS. REFER TO RENOVATION PLANS.

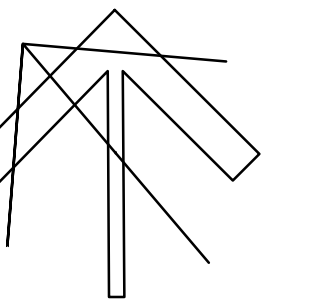
SPECIFIC RENOVATION NOTES

- R1 INDICATES DEVICES FOR CEILING MOUNTED PROJECTOR TO BE INSTALLED AT CEILING.
- R2 INDICATES OUTLET/CONNECTION FOR MOTORIZED PROJECT SCREEN.
- R3 INDICATES RECEPTACLE AND DATA OUTLET FOR SOUND SYSTEM. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. REFER TO DETAIL C/E202 FOR ALL ROUGH-INS REQUIREMENTS.
- R4 INDICATES FIXTURE TO BE CONNECT TO EXISTING CIRCUIT AND CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.

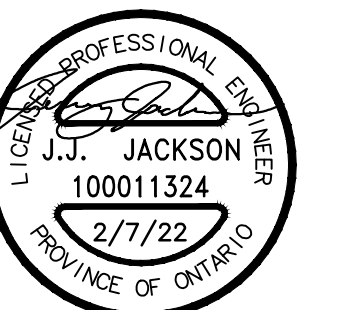
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PROJECT NORTH



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DRAWING TITLE:

ELECTRICAL DEMOLITION AND RENOVATION PLANS

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| PROJECT NO: A20002.6 | SCALE: AS NOTED |
| DRAWN: TM | DRAWING NO. REV. |
| CHECKED: JJ. | E202 1 |
| DATE: FEB 2022 | |

ELECTRICAL SPECIFICATION

GENERAL NOTES

- .1 PROVIDE LABOUR MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION WITH QUALITY WORKMANSHIP ACCEPTABLE TO THE OWNER, ARCHITECT AND CONSULTANT.
.2 OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES AND OTHER COSTS INCURRED WITH THIS WORK. FILE ALL PLANS, OBTAIN NECESSARY APPROVALS, CERTIFICATES AND INSPECTIONS. SUBMIT ALL FINAL CERTIFICATES TO THE CONSULTANT.
.3 COMPLY WITH RULES AND RECOMMENDATIONS OF THE BOARD OF UNDERWRITERS, ELECTRICAL SAFETY AUTHORITY, THE CANADIAN STANDARDS ASSOCIATION AND ALL REQUIREMENTS OF THE LOCAL UTILITY.
.4 VISIT THE SITE BEFORE SUBMITTING TENDERS TO EVALUATE ANY SITE CONDITIONS THAT MIGHT ARISE. INCLUDE ALL SITE CONDITIONS IN TENDER, EXTRAS WILL NOT BE ACCEPTED UNLESS BELIEVED TO BE REASONABLE BY THE OWNER AND CONSULTANT.
.5 CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR REQUIRING TO INSTALL THE SERVICE.
.6 THE DRAWINGS ARE DIAGRAMMATIC, THE SERVICES SHALL BE INSTALLED TO CONSERVE HEADROOM AND INTERFERE AS LITTLE AS POSSIBLE WITH THE FREE USE OF THE SPACES THROUGH WHICH THEY PASS.
.7 SUBMIT COPIES OF SHOP DRAWINGS PDF FILES VIA EMAIL FOR ALL MAJOR EQUIPMENT. THESE WILL BE REVIEWED BY THE CONSULTANT. RESUBMIT AS OFTEN AS MAY BE FOUND NECESSARY.
.8 PROVIDE ALL NECESSARY PROTECTION FOR FINISHED OR UNFINISHED WORK. ALL OPENINGS IN CONDUITS, DUCTS AND EQUIPMENT SHALL BE CAPPED TO ENSURE SERVICES ARE KEPT CLEAN WHEN NOT IN USE.
.9 MAINTAIN INSURANCE TO FULLY PROTECT THE CONTRACTOR, OWNER AND CONSULTANT FROM ANY AND ALL CLAIMS SUCH AS UNDER THE WORKMEN'S COMPENSATION ACT, ETC. POST PROJECT NOTIFICATION AT THE SITE IN ACCORDANCE WITH THE MINISTRY OF LABOUR REQUIREMENTS.
.10 PROVIDE STRUCTURAL SUPPORTS, PLATFORMS, SUPPORTING ROOFS, HANGERS, INSERTS AND BRACKETS FOR EQUIPMENT AND SERVICES. DO NOT SUPPORT SERVICES FROM STEEL DECK.
.11 INSTRUCT THE OWNER'S STAFF IN THE CARE, MAINTENANCE AND OPERATION OF THE SYSTEMS.
.12 WARRANTY ALL LABOUR, MATERIAL AND EQUIPMENT FOR A PERIOD OF TWO (2) YEARS AFTER FINAL ACCEPTANCE OF SYSTEM.
.13 COORDINATE WITH OTHER CONTRACTORS INSTALLING EQUIPMENT OR MATERIAL AND ARRANGE EQUIPMENT IN PROPER RELATION WITH APPARATUS OF ALL OTHER TRADES.
.14 PROVIDE LAMICOID TAGS FOR IDENTIFICATION OF NEW EQUIPMENT ADDED.
.15 MOUNTING HEIGHTS SHALL BE AS FOLLOWS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE/EQUIPMENT (UNLESS OTHERWISE NOTED):
- SWITCHES, DIMMERS AND SPEED CONTROLLERS: 1100mm (44")
- WALL RECEPTACLES:
- GENERAL: 400mm (16")
- ABOVE TOP OF COUNTERS: 100mm (4")
- IN MECHANICAL/ELECTRICAL ROOMS: 1100mm (44") (GANG WITH SWITCH).
- FIRE ALARM STROBES: 2250mm (7'-6")
.16 ALL AREAS NOT AFFECTED BY RENOVATION OR DEMOLITION SHALL REMAIN AS PRESENTLY INSTALLED UNLESS OTHERWISE NOTED.
.17 ALL EXISTING ELECTRICAL DEVICES, OUTLET BOXES, ETC., NOT SHOWN ON DRAWINGS OR MENTIONED IN THE FOLLOWING NOTES AND INSTALLED IN WALLS SLATED FOR DEMOLITION, SHALL BE DISCONNECTED AND REMOVED COMPLETELY IN ALL RESPECTS.
.18 SUBMIT ONE COPY OF OPERATING AND MAINTENANCE INSTRUCTIONS IN A THREE RING BINDER LABELED FOR THE PROJECT COMPLETE WITH ITEMIZED SECTIONS CONTAINING PROJECT DATA, SHOP DRAWINGS, ETC. UPON ACCEPTANCE OF THE OPERATION AND MAINTENANCE MANUAL BY THE CONSULTANT PROVIDE TWO ADDITIONAL COPIES BOUND IN SEPARATE THREE RING BINDERS. A PDF FILE OF THE ENTIRE MANUAL IS TO BE PROVIDED ON A USB STICK. ONLY ONE USB STICK IS TO BE PROVIDED CONTAINING BOTH THE APPROVED MANUALS AND RECORD DRAWINGS.
.19 CONTRACTOR SHALL PROVIDE 2 SETS OF REPRODUCIBLE ELECTRICAL DRAWINGS. MARK THEREON ALL CHANGES AS WORK PROGRESSES AND AS CHANGES OCCUR. THIS SHALL INCLUDE FIELD AND CONTRACT CHANGES TO ELECTRICAL SYSTEMS. IDENTIFY EACH DRAWING IN LOWER RIGHT HAND CORNER IN LETTERS AT LEAST 3mm (1/8") HIGH AS FOLLOWS: - RECORD DRAWINGS: THIS DRAWING HAS BEEN REVISED TO SHOW ELECTRICAL SYSTEMS AS INSTALLED. (SIGNATURE OF CONTRACTOR)(DATE) SUBMIT HARD COPY TO CONSULTANT FOR APPROVAL. WHEN RETURNED, MAKE CORRECTIONS (IF ANY) AS DIRECTED. ONCE APPROVED, SUBMIT COMPLETED REPRODUCIBLE PAPER RECORD DRAWINGS AS WELL AS A SCANNED PDF COPY FILE ON USB STICK WITH OPERATING AND MAINTENANCE MANUALS.
.20 THE CONTRACTOR WILL INCLUDE REDLINES FOR EACH AND EVERY ELECTRICAL DRAWING FOR DEI & ASSOCIATES INC. TO CAD THE RECORD DRAWINGS. THE CAD DRAWING FILES WILL BE PROVIDED TO THE OWNER AS PART OF THE MAINTENANCE MANUALS.

BASIC MATERIALS

- .1 JUNCTION, OUTLET AND PULL BOXES MUST BE APPROVED TO SUIT INSTALLATION METHODS AND ENVIRONMENT.
.2 CONDUIT MUST BE CONCEALED UNLESS INSTALLED IN SERVICE OR STORAGE ROOMS.
.3 CONDUIT MUST BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER.
.4 ALL FEEDER AND BRANCH CIRCUIT WIRING MUST BE COPPER, T90 RATING/STYLE RUN IN EMT CONDUIT WITH INTERNAL INSULATED GREEN GROUND WIRE UNLESS NOTED OTHERWISE. MINIMUM WIRE SIZE SHALL BE #12 AND MINIMUM CONDUIT SIZE SHALL BE 3/4" (19mm).
.5 AC90 CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING IN STEEL STUD WALLS AND "DROPS" IN T-BAR CEILING AREAS TO LIGHT FIXTURES AND FIRE ALARM DEVICES. LENGTH OF DROP MUST BE LIMITED TO 8'-0" (2400mm).
.6 WHERE DEVICES ARE TO BE INSTALLED ON EXISTING WALLS IN FINISHED AREA, WHICH CANNOT BE FISHED, INSTALL FEEDS IN A SURFACE METAL RACEWAY EQUAL TO WIREMOLD V700 SERIES.
.7 COLOUR CODE CONDUITS, BOXES AND METALLIC SHEATHED CABLES.
.8 CODE WITH PLASTIC TAPE OR PAINT AT POINTS WHERE CONDUIT OR CABLE ENTERS WALL, CEILING, OR FLOOR, AND AT 15m(45') INTERVALS.
.9 COLOUR BANDS MUST BE 25mm(1") WIDE AND CODED AS FOLLOWS FOR NOTED SYSTEMS.
SYSTEM COLOUR
UP TO 208V YELLOW
FIRE ALARM RED

DRAW BREAKDOWN

- .1 THIS CONTRACTOR MUST SUBMIT A BREAKDOWN OF THE TENDER PRICE INTO CLASSIFICATIONS TO THE SATISFACTION OF THE CONSULTANT, WITH THE AGGREGATE OF THE BREAKDOWN TOTALING THE TOTAL CONTRACT AMOUNT. EACH ITEM MUST BE BROKEN OUT INTO MATERIAL AND LABOUR COSTS. PROGRESS CLAIMS, WHEN SUBMITTED ARE TO BE ITEMIZED AGAINST EACH ITEM OF THE DRAW BREAKDOWN. THIS SHALL BE DONE IN TABLE FORM SHOWING CONTRACT AMOUNT, AMOUNT THIS DRAW, TOTAL TO DATE, % COMPLETE AND BALANCE.
.2 BREAKDOWN SHALL BE AS FOLLOWS:
.1 PERMITS AND FEES
.2 MOBILIZATION (MAXIMUM 1%)
.3 DEMOLITION
.4 BRANCH CONDUITS
.5 BRANCH WIRING
.6 LIGHTING FIXTURES
.7 FIRE ALARM SYSTEM DEVICES
.8 WIRING FOR MECHANICAL EQUIPMENT
.9 HAND DRYERS
.10 CONTRACT CLOSEOUT (MINIMUM 3% BUT NO LESS THAN \$1,500.00)
.3 THE BREAKDOWN MUST BE APPROVED BY THE CONSULTANT PRIOR TO SUBMISSION OF THE FIRST DRAW.
.4 BREAKDOWNS NOT COMPLYING TO THE ABOVE WILL NOT BE APPROVED.
.5 BREAKDOWN MUST INDICATE TOTAL CONTRACT AMOUNT.
.6 MOBILIZATION AMOUNT MAY ONLY BE DRAWN WHEN ALL REQUIRED SHOP DRAWINGS HAVE BEEN REVIEWED BY THE CONSULTANT.

WIRING DEVICES

- .1 GENERAL PURPOSE AC SWITCHES MUST CONFORM TO CSA C22.2 NO. 111 (LATEST EDITION).
.2 15 OR 20 A, 120 V, SINGLE POLE, DOUBLE POLE, THREE-WAY, OR FOUR-WAY SWITCHES.
.3 INSTALL SWITCHES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE SWITCH IS REQUIRED IN ONE LOCATION.
.4 RECEPTACLES, PLUGS, AND OTHER SIMILAR WIRING DEVICES MUST CONFORM TO CSA C22.2 NO. 42 (LATEST EDITION).
.5 DUPLEX RECEPTACLES, CSA TYPE 5-15 R, 125 V, 15 A, U GROUND, WITH THE FOLLOWING FEATURES:
.1 UREA MOLDED HOUSING WITH COLOUR AS SELECTED BY ARCHITECT.
.2 SUITABLE FOR NO. 10 AWG FOR BACK AND SIDE WIRING.
.3 BREAK-OFF LINKS FOR USE AS SPLIT RECEPTACLES.
.4 EIGHT BACK WIRED ENTRANCES, FOUR SIDE WIRING SCREWS.
.5 TRIPLE WIRE CONTACTS AND RIVETED GROUNDING CONTACTS.
.6 ACCEPTABLE MATERIALS:
.1 TAMPER RESISTANT RECEPTACLE: HUBBELL CAT. #BR15TR
.2 TAMPER RESISTANT T-SLOT RECEPTACLE: HUBBELL CAT. #BR20TR
.3 TAMPER RESISTANT GROUND FAULT PROTECTED RECEPTACLE: HUBBELL CAT. #GFR15
.4 TAMPER RESISTANT GROUND FAULT PROTECTED T-SLOT RECEPTACLE: HUBBELL CAT. #GFR20
.7 OTHER RECEPTACLES WITH AMPACITY AND VOLTAGE AS INDICATED. COLOUR BY ARCHITECT.
.8 ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE:
PASS & SEYMOUR
LEVITON
.9 WALL MOUNTED OCCUPANCY SENSORS (PASSIVE TECHNOLOGY), OCCUPANCY SENSORS USED IN STORAGE AND SERVICE ROOMS SHALL BE EITHER:
.1 WATTSTOPPER CAT. #PW-100-VOLT-X (COLOUR BY ARCHITECT)
.2 SENSOR SWITCH CAT. #WS-VOLT-X (COLOUR BY ARCHITECT)
.3 EQUAL BY COOPER CONTROLS
.10 WHERE NOTED ON THE DRAWINGS, THE WALL MOUNTED SWITCH STYLE OCCUPANCY SENSOR USED IN ADMINISTRATIVE OFFICES AND SEMINAR/MEETING ROOMS SHALL BE A DUAL TECHNOLOGY WITH EITHER SINGLE OR DOUBLE RELAY (CIRCUIT) AS NOTED ON THE DRAWINGS. COLOUR TO SUIT ARCHITECT. SWITCHES SHALL BE EITHER:
.1 SINGLE RELAY (CIRCUIT): WATTSTOPPER CAT. #DW-100
.2 DUAL RELAY (CIRCUIT): WATTSTOPPER CAT. #DW-200
.3 APPROVED EQUAL:
.1 SENSOR SWITCH
.2 COOPER CONTROLS
NOTE: FOR DUAL RELAY SWITCHES, PROGRAM THE SENSORY FOR 15 MINUTE OFF DELAY, ENABLED WAL-THRU, AUDIBLE ALERT ENABLED, RELAY 1 ON MODE: AUTO ON, RELAY 2 ON MODE: MANUAL ON.
.11 PROVIDE OTHER OCCUPANCY SENSORS TO SUIT THE DETAIL(S) ON THE DRAWINGS.
.12 ALL SENSORS SHALL BE SET TO 5 MINUTES "DELAY TO OFF" UNLESS OTHERWISE DIRECTED.
.13 OCCUPANCY SENSORS:
.1 INSTALL POWER PACKS IN ACCESSIBLE MAINTENANCE AREAS.
.2 PROVIDE ACCESS DOORS IF POWER PACKS ARE INSTALLED ABOVE DRYWALL CEILINGS.
.3 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORY IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER COVERAGE WITHIN THE RANGE OF COVERAGE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOMS.
.4 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE-INSTALLATION MEETING WITH THE MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE FACILITY, TO VERIFY PLACEMENT TO SENSORS AND INSTALLATION CRITERIA.
.5 THE CONTRACTOR SHALL ALSO PROVIDE THE ON-SITE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES SYSTEMS.
.6 UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE OCCUPANCY-BASED LIGHTING CONTROL. SUBMIT COMMISSIONING REPORT WITH CLOSE-OUT DOCUMENTS.
.14 INSTALL DEVICES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE DEVICE IS REQUIRED IN ONE LOCATION.
.15 SHEET STEEL UTILITY BOX COVER FOR WIRING DEVICES INSTALLED IN SURFACE MOUNTED UTILITY BOXES.
.16 STAINLESS STEEL, VERTICALLY BRUSHED, 1mm THICK OR THERMOPLASTIC CONSTRUCTION, COLOUR TO MATCH WIRING DEVICES, THICKNESS 2.5mm, COVER PLATES FOR WIRING DEVICES MOUNTED IN FLUSH-MOUNTED OUTLET BOXES.
.17 SHEET METAL COVER PLATES FOR WIRING DEVICES MOUNTED IN SURFACE-MOUNTED FS OR FD TYPE CONDUIT BOXES.
.18 PROTECT STAINLESS STEEL COVER PLATE FINISH WITH PAPER OR PLASTIC FILM UNTIL PAINTING AND OTHER WORK IS FINISHED.
.19 INSTALL SUITABLE COMMON COVER PLATES WHERE WIRING DEVICES ARE GROUPED.

EQUIPMENT

- .1 HAND DRYERS
.1 HAND DRYERS WHERE NOTED ON THE DRAWINGS ARE TO BE SUPPLIED AND INSTALLED BY THIS DIVISION WITH THE FOLLOWING FEATURES:
.1 SURFACE MOUNTING.
.2 FIXED NOZZLE.
.3 WHITE FINISH WITH AUTOMATIC ACTIVATION.
.4 RATING OF 1000W, 120V, THREE SPEED, SET TO MEDIUM SPEED AND LOW HEAT.
.5 WORLD DRYER CAT. #SMARTDR
.6 APPROVED ALTERNATE: AMERICAN DRYER CAT. #GXT

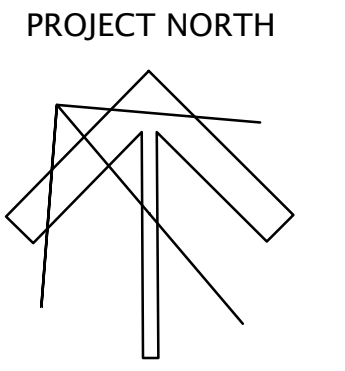
FIRE ALARM SYSTEMS

- .1 INSTALLATION OF FIRE ALARM DEVICES MUST CONFORM TO ULC-S524 (LATEST EDITION).
.2 ALL WIRING MUST BE COLOUR CODED, SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND CONFORM TO THE LATEST EDITION OF THE ELECTRICAL SAFETY CODE.
.3 ALL NEW FIRE ALARM DETECTION AND SIGNALING DEVICES ADDED DUE TO RENOVATIONS AND ADDITIONS SHALL BE CONNECTED TO EXISTING LOCAL ZONE OR NEW ZONE AS INDICATED.
.4 EQUIPMENT SHALL BE SUPPLIED AND INSTALLED AS FOLLOWS:
.1 AUTOMATIC ALARM INITIATING DEVICES
.1 MANUAL ALARM STATIONS: PULL LEVER STYLE, WALL MOUNTED SEMI-FLUSH TYPE, NON-CODED SINGLE POLE NORMALLY OPEN CONTACT FOR SINGLE STAGE, ENGLISH SIGNAGE.
.2 THERMAL FIRE DETECTORS: FIXED TEMPERATURE, NON-RESTORABLE, RATED 57C OR 88C AS INDICATED.
.3 THERMAL FIRE DETECTORS: COMBINATION FIXED TEMPERATURE AND RATE OF RISE, NON-RESTORABLE FIXED TEMPERATURE ELEMENT, SELF-RESTORING RATE OF RISE, FIXED TEMPERATURE 57C OR 88C, RATE OF RISE 8.3C PER MINUTE.
.4 SMOKE DETECTOR: CEILING MOUNTED, PHOTO ELECTRIC TYPE, VISUAL ALARM INDICATOR, COMPLETE WITH RELAY BASE WHERE NOTED.
.5 SMOKE DETECTOR: PHOTO ELECTRIC TYPE AIR DUCT TYPE WITH SAMPLING TUBES WITH PROTECTIVE HOUSING.
.1 PLUG-IN TYPE WITH FIXED BASE.
.2 WIRE-IN BASE ASSEMBLY WITH INTEGRAL RED ALARM LED, AND TERMINALS FOR REMOTE ALARM LED.
.2 AUDIBLE/VISUAL SIGNAL DEVICES
.1 STROBE: SEMI-RECESSED, 24VDC OPERATION, COMPLETE WITH SELECTABLE 15/30/75/110 CANDELA OUTPUT (UNLESS OTHERWISE NOTED SET AT 75 CD), SYNCHRONIZED STROBE, RED FINISH, FM AND ULC LISTED. SUITABLE FOR MOUNTING ON A SINGLE GANG BOX.
.2 150MM (6") BELLS: SURFACE MOUNTED BELL, VIBRATION TYPE 24VDC, 6", 92DBA RATING AT 10', RED FINISH, FM AND ULC LISTED.
NOTE:
.1 SIGNAL DEVICES WITH INTEGRAL STROBE LIGHTS IN HIGH ABUSE AREAS (I.E. GYMNASIUM, CHANGE ROOMS, ETC.) MUST BE PROVIDED WITH PROTECTIVE WIREGUARDS.
.2 ANY SURFACE MOUNTED SIGNAL DEVICES MUST BE PROVIDED WITH SUITABLE BACKBOXES SUPPLIED BY THE MANUFACTURER.
.3 END-OF-LINE DEVICES
.1 END-OF-LINE DEVICES TO CONTROL SUPERVISORY CURRENT IN ALARM CIRCUITS AND SIGNALING CIRCUITS, SIZED TO ENSURE CORRECT SUPERVISORY CURRENT FOR EACH CIRCUIT. OPEN, SHORT OR GROUND FAULT IN ANY CIRCUIT WILL ALTER SUPERVISORY CURRENT IN THAT CIRCUIT, PRODUCING AUDIBLE AND VISIBLE ALARM AT MAIN CONTROL PANEL AND REMOTELY AT ANNUNCIATORS.
.5 ONCE INSTALLATION IS COMPLETE THE MANUFACTURER'S REPRESENTATIVE MUST MAKE AN INSPECTION OF THE DEVICES INSTALLED.
.6 THIS TEST MUST CONFORM TO THE ONTARIO BUILDING CODE AND THE LATEST EDITION OF ULC CAN4-S537.
.7 ALL COSTS ASSOCIATED WITH THIS INSPECTION BY THE CONTRACTOR AND MANUFACTURER MUST BE CARRIED IN THE TENDER PRICE.
.8 UPON SUCCESSFUL COMPLETION OF TESTING THE MANUFACTURER MUST SUBMIT TO THE CONTRACTOR AND CONSULTANT:
- A CERTIFICATE OF VERIFICATION
- FIELD TECHNICIAN VERIFICATION SHEETS FOR EACH DEVICE VERIFIED (INCLUDE COPIES OF SAME IN MAINTENANCE MANUALS)
.9 THE TEST RESULTS ARE TO BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO ISSUING TO OWNER'S REPRESENTATIVES AND/OR AUTHORITIES HAVING JURISDICTION.

Table with 2 columns: Device Name, Manufacturer/Model. Includes CONTROL PANEL (EXISTING) QUICKSTART, AUXILIARY DEVICES, 23 150mm (6") BELLS 439D SERIES OR MB SERIES, 25 STROBE G1R-VM.

Revision table with columns for NO. DATE, DESCRIPTION, and REVISION. Shows revision 1 on 22.02.08.

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Professional Engineer seal for J.J. JACKSON, License No. 00011324, dated 2/7/22, Province of Ontario.

ST. ANDREW PUBLIC SCHOOL logo and address: 65 Victoria Ave, Cambridge, ON N1S 2V1.

DRAWING TITLE: ELECTRICAL SPECIFICATIONS. PROJECT NO: A20002.6. SCALE: AS NOTED. DRAWN: TM. CHECKED: JJ. DATE: FEB 2022. DRAWING NO: E301. REV. 1.

LIGHTING SYSTEMS

FIXTURES ARE TO BE PROVIDED AS NOTED IN THE LIGHT FIXTURE SCHEDULE C/W THE FOLLOWING FEATURES:

- .1 LED
 - .1 FIXTURE LED'S MUST BE TESTED IN CONFORMANCE WITH IESNA LM80 STANDARD.
 - .2 LED'S MUST BE SELECTED USING A BINNING ALGORITHM TO ENSURE COLOUR AND LUMEN OUTPUT OF A GIVEN FIXTURE ARE CONSISTENT, AS WELL AS MEET OR SURPASS ANSI C78.377 SPECIFICATION FOR THE RATED LIFETIME OF THE FIXTURE. COLOUR ACCURACY BETWEEN PRODUCTS MUST BE WITHIN A 2-STEP MACADAM ELLIPSE.
 - .3 LUMINAIRES MUST BE TESTED TO IESNA LM79 BY AN INDEPENDENT APPROVED LABORATORY.
 - .4 LUMINAIRES MUST BE TESTED PRIOR TO SHIPPING.
 - .5 LUMINAIRES MUST BE ULC CERTIFIED AND APPROVED FOR USE IN CANADA.
 - .6 FIXTURES MUST MAINTAIN A MINIMUM OF 90% OF THEIR INITIAL LIGHT OUTPUT FOR 60,000 HOURS. SUBMIT TEST RESULTS UPON REQUEST.
 - .7 LUMEN VALUES INDICATED FOR FIXTURES IN THE PROJECT DOCUMENTS ARE TO BE CONSIDERED AS 'ABSOLUTE' OR 'DELIVERED' VALUES.
 - .8 OTHER THAN FOR SPECIALTY FIXTURES, AND UNLESS OTHERWISE INDICATED, THE MAXIMUM DRIVER CURRENT IS TO BE 750 MA.
- .2 EMERGENCY LIGHTING UNITS
 - .1 MUST CONFORM TO CSA C22.2 NO. 141 (LATEST EDITION).
 - .2 SUPPLY VOLTAGE: 120 VOLT, AC.
 - .3 OUTPUT VOLTAGE: 12 VOLT, DC.
 - .4 BATTERY: SEALED UNITS MUST BE CAPABLE OF SUPPLYING THE WATTAGE INDICATED FOR A MINIMUM OF 30 MINUTES.
 - .5 SIGNAL LIGHTS: "AC POWER ON" CONDITION AND "CHARGING" CONDITION.
 - .6 LAMP HEADS: INTEGRAL ON UNIT, 345° HORIZONTAL AND 180° VERTICAL ADJUSTMENT.
LAMP TYPE: MINIMUM 4W LED.
 - .7 AUXILIARY EQUIPMENT:
 - .1 TEST SWITCH
 - .2 AC INPUT AND DC OUTPUT TERMINAL BLOCKS INSIDE CABINET.
 - .3 SHELF
 - .4 CORD AND PLUG CONNECTION FOR AC.
- .3 REMOTE EMERGENCY LIGHTING FIXTURES
 - .1 REMOTE EMERGENCY LIGHTING FIXTURES MUST CONFORM TO CSA C22.2 NO. 141 (LATEST EDITION).
 - .2 FIXTURES SHALL BE SMALL "MICRO" SIZE WITH WHITE FINISH.
 - .3 FIXTURES MUST BE ADJUSTABLE TYPE HEADS WITH CANOPY.
 - .4 UNLESS OTHERWISE INDICATED SURFACE MOUNTED FIXTURES IN WASHROOMS, LOCKER ROOMS, CHANGE ROOMS AND GYMNASIUMS MUST BE PROVIDED WITH WIRE GUARD.
- .4 FIXTURE INSTALLATION
 - .1 LOCATE AND INSTALL LUMINAIRES AS INDICATED.
 - .2 FIXTURE SURFACE MOUNTED TO SUSPENDED CEILINGS MUST BE SECURED THROUGH CEILING ASSEMBLY TO CROSS MEMBER SUPPORTS. THESE SUPPORTS ARE TO BE STEEL CHANNELS OR ANGLES INDEPENDENTLY SECURED TO STRUCTURE USING #12 "JACK" CHAIN. EACH CHAIN MUST BE SECURED SO NO FIXTURE WEIGHT IS ADDED TO THE CEILING ASSEMBLY.
 - .3 PLASTER FRAMES/FLANGE KITS MUST BE PROVIDED BY THIS DIVISION FOR FIXTURES RECESSED IN PLASTER AND/OR DRYWALL CEILINGS.
 - .4 WHERE SPECIFIED, FIXTURES TO BE CHAIN HUNG SHALL BE HUNG USING "JACK" CHAIN WITH A CAPACITY TO SUIT THE FIXTURE WEIGHT. BRANCH CIRCUIT WIRING FEEDING THESE FIXTURES SHALL BE AC90 CABLE "TY-WRAPPED" AT 36" (900mm) INTERVALS ALONG LENGTH OF DROP. FINAL APPEARANCE MUST BE NEAT AND PROFESSIONAL.
 - .5 INSTALL EXIT LIGHTING UNITS AS INDICATED WITH ILLUMINATED FACES AND CHEVRONS/ARROWS INDICATING PATH(S) OF EXIT.
 - .6 INSTALL EMERGENCY LIGHTING UNITS AND ASSOCIATED REMOTE MOUNTED FIXTURES AS INDICATED.
 - .7 DIRECT "HEADS" ON UNITS AND REMOTE MOUNTED FIXTURES TO ILLUMINATE PATH(S) OF EXIT.
 - .8 INSTALL EMERGENCY LIGHTING UNITS AND REMOTE FIXTURES AT 8' (2400mm) ABOVE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
 - .9 PROVIDE A 15A 120V DUPLEX RECEPTACLE (CONNECT TO CIRCUIT INDICATED) ADJACENT TO UNIT.
 - .10 CONNECT LUMINAIRES TO LIGHTING CIRCUITS AS INDICATED.
 - .11 CONNECT EXIT FIXTURES TO EXIT LIGHTING CIRCUITS AND UNIT EQUIPMENT (IF APPLICABLE).
 - .12 CONNECT UNIT EQUIPMENT TO CIRCUITS AS INDICATED.
 - .13 ALL WIRING OF REMOTE EMERGENCY FIXTURES SHALL BE MINIMUM #10 T90 FOR EACH CIRCUIT AND RUN IN CONDUIT. WIRING MUST BE SIZED IN CONFORMANCE WITH MANUFACTURERS' RECOMMENDATIONS FOR DISTANCE REQUIRED.
 - .14 ALIGN LUMINAIRES MOUNTED IN CONTINUOUS ROWS TO FORM STRAIGHT UNINTERRUPTED LINES.
 - .15 ALIGN LUMINAIRES MOUNTED INDIVIDUALLY PARALLEL OR PERPENDICULAR TO BUILDING GRID LINES.
 - .16 ALL LIGHTING BRANCH CIRCUITS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS.
- .5 GUARANTEE
 - .1 ALL LED FIXTURES AND DRIVERS ARE TO BE COMPLETE WITH A 5 YEAR GUARANTEE.
 - .2 THE LABOUR REQUIRED TO REPLACE THESE DRIVERS MUST BE INCLUDED IN THE ABOVE GUARANTEE
- .6 TESTING/CERTIFICATION
 - .1 AT THE COMPLETION OF THE PROJECT AND IN THE PRESENCE OF THE CONSULTANT, TEST ALL EXIT AND EMERGENCY FIXTURES. ON COMPANY LETTERHEAD, THE CONTRACTOR IS TO PREPARE A CHART INDICATING:
 - PROJECT
 - DATE
 - EQUIPMENT TYPE
 - CERTIFICATION OF CORRECT CONNECTION
 - CERTIFICATION OF CORRECT OPERATION
 - DURATION OF TEST IN MINUTES (MINIMUM 30)
 - ACTUAL PERIOD OF TESTING (TIME OF DAY)

SHOP DRAWINGS AND PRODUCT DATA

- .1 FURNISH COMPLETE CATALOG DATA FOR MANUFACTURED ITEMS OF EQUIPMENT TO BE USED IN THE WORK TO CONSULTANT FOR REVIEW WITHIN 30 DAYS AFTER AWARD OF CONTRACT.
- .2 IF MATERIAL OR EQUIPMENT IS NOT AS SPECIFIED OR SUBMITTAL IS NOT COMPLETE, IT WILL BE REJECTED BY CONSULTANT.
- .3 ADDITIONAL SHOP DRAWINGS REQUIRED BY THE CONTRACTOR FOR MAINTENANCE MANUALS, SITE COPIES ETC., SHALL BE PHOTOCOPIES OF THE "REVIEWED" SHOP DRAWINGS. ALL COSTS TO PROVIDE ADDITIONAL COPIES OF SHOP DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.
- .4 PARTIAL SUBMITTALS WILL NOT BE ACCEPTED.
- .5 CATALOG DATA OR SHOP DRAWINGS FOR EQUIPMENT, WHICH ARE NOTED AS BEING REVIEWED BY CONSULTANT OR HIS ENGINEER SHALL NOT SUPERSEDE CONTRACT DOCUMENTS.
- .6 REVIEW COMMENTS OF CONSULTANT SHALL NOT RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS UNLESS CONSULTANT'S ATTENTION HAS BEEN CALLED TO SUCH DEVIATIONS IN WRITING AT TIME OF SUBMISSION, NOR SHALL THEY RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR ERRORS IN ITEMS SUBMITTED.
- .7 CHECK WORK DESCRIBED BY CATALOG DATA WITH CONTRACT DOCUMENTS FOR DEVIATIONS AND ERRORS.
- .8 SHOP DRAWINGS AND PRODUCT DATA SHALL SHOW:
 - .1 MOUNTING ARRANGEMENTS.
 - .2 OPERATING AND MAINTENANCE CLEARANCES. E.G. ACCESS DOOR SWING SPACES.
- .9 SHOP DRAWINGS AND PRODUCT DATA SHALL BE ACCOMPANIED BY:
 - .1 DETAILED DRAWINGS OF BASES, SUPPORTS, AND ANCHOR BOLTS.
 - .2 MANUFACTURER TEST DATA WHERE REQUESTED.
 - .3 MANUFACTURER TO CERTIFY AS TO CURRENT MODEL PRODUCTION.
 - .4 CERTIFICATION OF COMPLIANCE TO APPLICABLE CODES.
- .10 STATE SIZES, CAPACITIES, BRAND NAMES, MOTOR HP, ACCESSORIES, MATERIALS, GAUGES, DIMENSIONS, AND OTHER PERTINENT INFORMATION. LIST ON CATALOG COVERS PAGE NUMBERS OF SUBMITTED ITEMS. UNDERLINE APPLICABLE DATA.
- .11 ONCE THESE SHOP DRAWINGS ARE RETURNED "REVIEWED OR REVIEWED AS NOTED" FABRICATION, PRODUCTION, AND INSTALLATION MAY COMMENCE. NOTE: IF A SHOP DRAWING IS RETURNED "REVIEWED AS NOTED" THIS CONTRACTOR MUST PROVIDE WRITTEN INDICATION THAT THE COMMENTS HAVE BEEN COMPLIED WITH.
- .12 A PARTIAL LIST OF SHOP DRAWINGS INCLUDES:
 - .1 FIRE ALARM SYSTEM COMPONENTS
 - .2 LUMINAIRES
 - .3 EMERGENCY BATTERY UNITS AND FIXTURES
 - .4 STARTERS, CONTACTORS, AND CONTROL DEVICES
 - .5 FIRESTOPPING MATERIALS
 - .6 HAND DRYERS
 - .7 LIGHTING CONTROL DEVICES
 - .8 UNIVERSAL WASHROOM KIT AND DEVICES

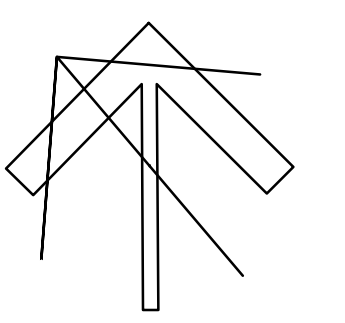
FIRESTOPPING

- .1 FIRESTOPPING MATERIAL AND INSTALLATION WITHIN ANNULAR SPACE BETWEEN CONDUITS, DUCTS, AND ADJACENT FIRE SEPARATION.
 - .2 PROVIDE MATERIALS AND SYSTEMS CAPABLE OF MAINTAINING EFFECTIVE BARRIER AGAINST FLAME, SMOKE, AND GASES.
 - .3 COMPLY WITH THE REQUIREMENTS OF CAN4-S115-M35, AND DO NOT EXCEED OPENING SIZED FOR WHICH THEY HAVE BEEN TESTED.
 - .4 SYSTEMS TO HAVE AN F OR FT RATING (AS APPLICABLE) NOT LESS THAN THE FIRE PROTECTION RATING REQUIRED FOR CLOSURES IN A FIRE SEPARATION. PROVIDE "FIREWRAP" BLANKET AROUND SERVICES PENETRATING FIREWALLS.
 - .5 EXTENT OF BLANKET MUST CORRESPOND TO ULC RECOMMENDATIONS. IN GENERAL WRAP INDIVIDUAL CONDUITS WITH APPROVED FIREWRAP MATERIALS ON EACH SIDE OF FIREWALL. REFER TO ARCHITECTURAL DRAWINGS FOR FT RATINGS. PROVIDE 1 AND/OR 2 LAYERS OF FIREWRAP WITH TRANSVERSE AND LONGITUDINAL SEAMS OVERLAPPED AND/OR BUTTED (SECOND LAYER OFFSET FROM FIRST LAYER). CUT EDGES ARE TO BE SEALED WITH ALUMINUM FOIL TAPE. PROVIDE 50 MM STAINLESS STEEL BANDING AT 200 MM INTERVALS. INSTALL FIREWRAP TO MANUFACTURERS' RECOMMENDATIONS FOR PROPER FT RATING. ACCEPTABLE MANUFACTURERS ARE 3M FIREMASTER DUCTWRAP OR APPROVED EQUAL.
 - .6 THE FIRESTOPPING MATERIALS ARE NOT TO SHRINK, SLUMP OR SAG AND BE FREE OF ASBESTOS, HALOGENS AND VOLATILE SOLVENTS.
 - .7 FIRESTOPPING MATERIALS ARE TO CONSIST OF A COMPONENT SEALANT APPLIED WITH A CONVENTIONAL CAULKING GUN AND TROWEL.
 - .8 FIRESTOP MATERIALS ARE TO BE CAPABLE OF RECEIVING FINISH MATERIALS IN THOSE AREAS, WHICH ARE EXPOSED AND SCHEDULED TO RECEIVE FINISHES.
 - .9 FIRESTOPPING SHALL BE INSPECTED AND APPROVED BY LOCAL AUTHORITY PRIOR TO CONCEALMENT OR ENCLOSURE.
 - .10 INSTALL MATERIAL AND COMPONENTS IN ACCORDANCE WITH ULC CERTIFICATION, MANUFACTURERS INSTRUCTIONS AND LOCAL AUTHORITY.
 - .11 SUBMIT PRODUCT LITERATURE AND INSTALLATION MATERIAL ON FIRESTOPPING IN SHOP DRAWING AND PRODUCT DATA MANUAL.
 - .12 ACCEPTABLE MANUFACTURERS:
 - FYRESLEEVE INDUSTRIES INC.
 - GENERAL ELECTRIC PENISIL FIRESTOP SYSTEMS
 - INTERNATIONAL PROTECTIVE COATINGS CORP.
 - RECTORSAL CORPORATION (METACAULK)
 - PROSET SYSTEMS
 - 3M
 - AD SYSTEMS
 - HILTI
 - ROYAL
- NOTE: FIRE STOP MATERIAL MUST CONFORM TO REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION. CONTRACTOR TO CONFIRM PRIOR TO APPLICATION AND ENSURE MATERIAL USED IS COMPATIBLE WITH THAT USED BY OTHER TRADES ON SITE.

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| NO. | DATE | ISSUED FOR PERMIT AND TENDER | REVISION |
| 1 | 22.02.08 | | |

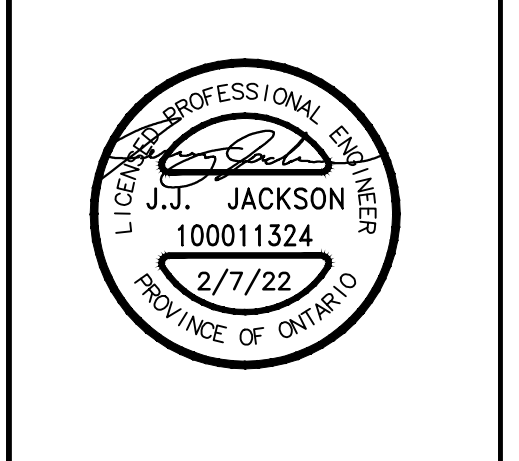
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as practical building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all details, fittings and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2022 DEI & Associates Inc.

PROJECT NORTH



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DRAWING TITLE:
ELECTRICAL SPECIFICATIONS

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| PROJECT NO: A20002.6 | SCALE: AS NOTED |
| DRAWN: TM | DRAWING NO. REV. E302 1 |
| CHECKED: JJ. | |
| DATE: FEB 2022 | |