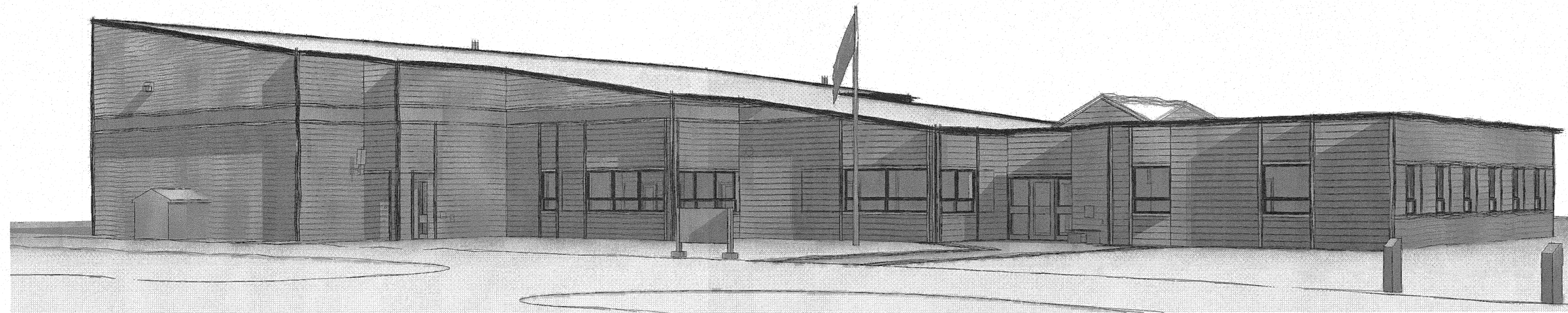
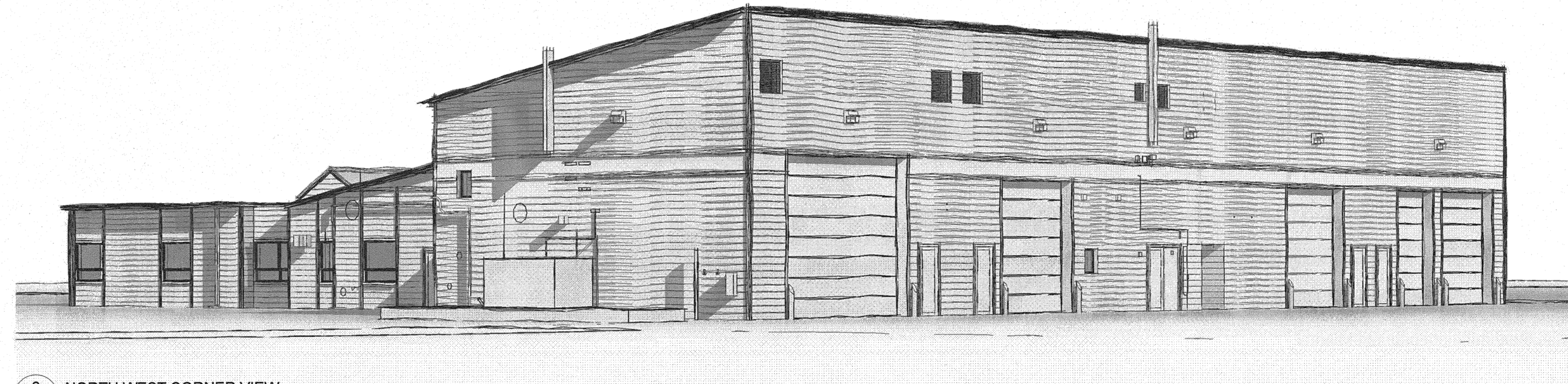


PUKASKWA PARK ADMINISTRATION BUILDING REPAIRS AND UPGRADES PHASE 2



1 SOUTH EAST CORNER VIEW
A1



2 NORTH WEST CORNER VIEW
A1

ARCHITECT:

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LIST OF DRAWINGS

| SHEET NUMBER | DRAWING TITLE |
|----------------------|--------------------------------------------------------|
| ARCHITECTURAL | |
| A1 | TITLE SHEET |
| A2 | GENERAL ARRANGEMENT SITE PLAN & NEW MAIN ENTRANCE PLAN |
| A3 | SITE DETAILS |
| A4 | CONSTRUCTION ASSEMBLIES, NBC MATRIX |
| A5 | DEMOLITION PLAN AND ELEVATIONS |
| A6 | MAIN FLOOR PLAN |
| A7 | BUILDING ELEVATIONS |
| A8 | WALL SECTIONS |
| A9 | SECTION DETAILS |
| A10 | PLAN DETAILS |
| A11 | WINDOW SCHEDULE AND DETAILS |
| A12 | DOOR SCHEDULE AND DETAILS |
| A13 | ALTERNATIVE #1 RIGID INSULATION |
| MECHANICAL | |
| M1 | MECHANICAL RENOVATIONS PLAN AND NOTES |
| M2 | SYSTEM RENOVATIONS SCHEMATICS, DETAILS AND NOTES |
| ELECTRICAL | |
| E1 | CONSTRUCTION NOTES |
| E2 | INTERIOR POWER PLAN |
| E3 | EXTERIOR POWER PLAN |
| E4 | EXTERIOR LIGHTING PLAN |
| E5 | LIGHTING DETAILS |
| E6 | LIFE SAFETY PLAN |

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|-------------|---|---------------------------------------------------------------------|
| A B C | A | Detail No. |
| | B | No. du détail |
| | C | drawing no. - where detail required dessin no. - où détail exigé |

project title
titre du projet
Ontario
PUKASKWA NATIONAL PARK
ADMINISTRATION BUILDING
REPAIR AND UPGRADES PHASE 2

drawing title
titre du dessin
TITLE SHEET

drawn by
dessiné par MAH

designed by
conçu par ML

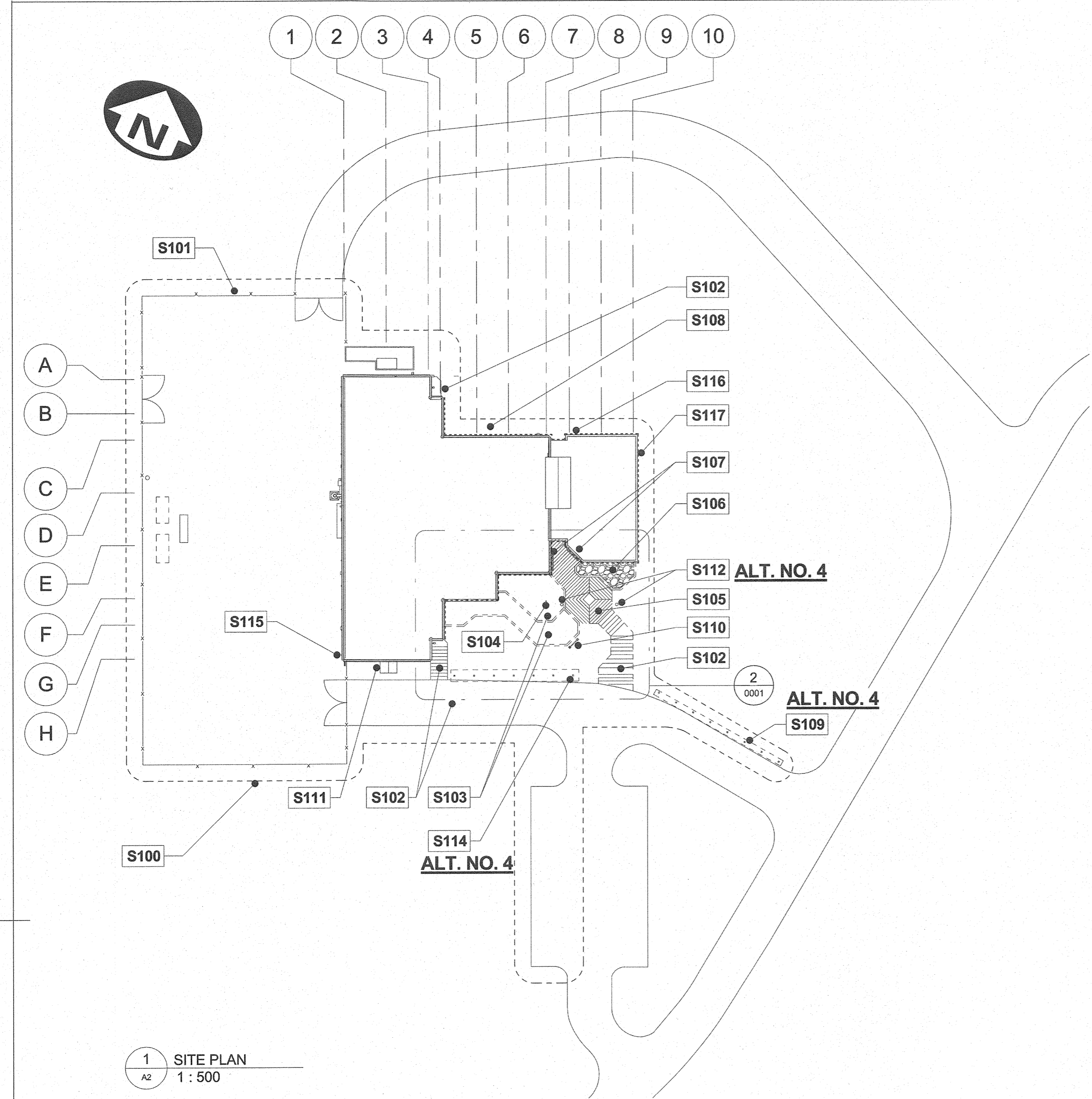
approved by
approuvé par TJA

tender submission
TENDER
project manager
administrateur de projets

project date
date du projet 2017/01/27

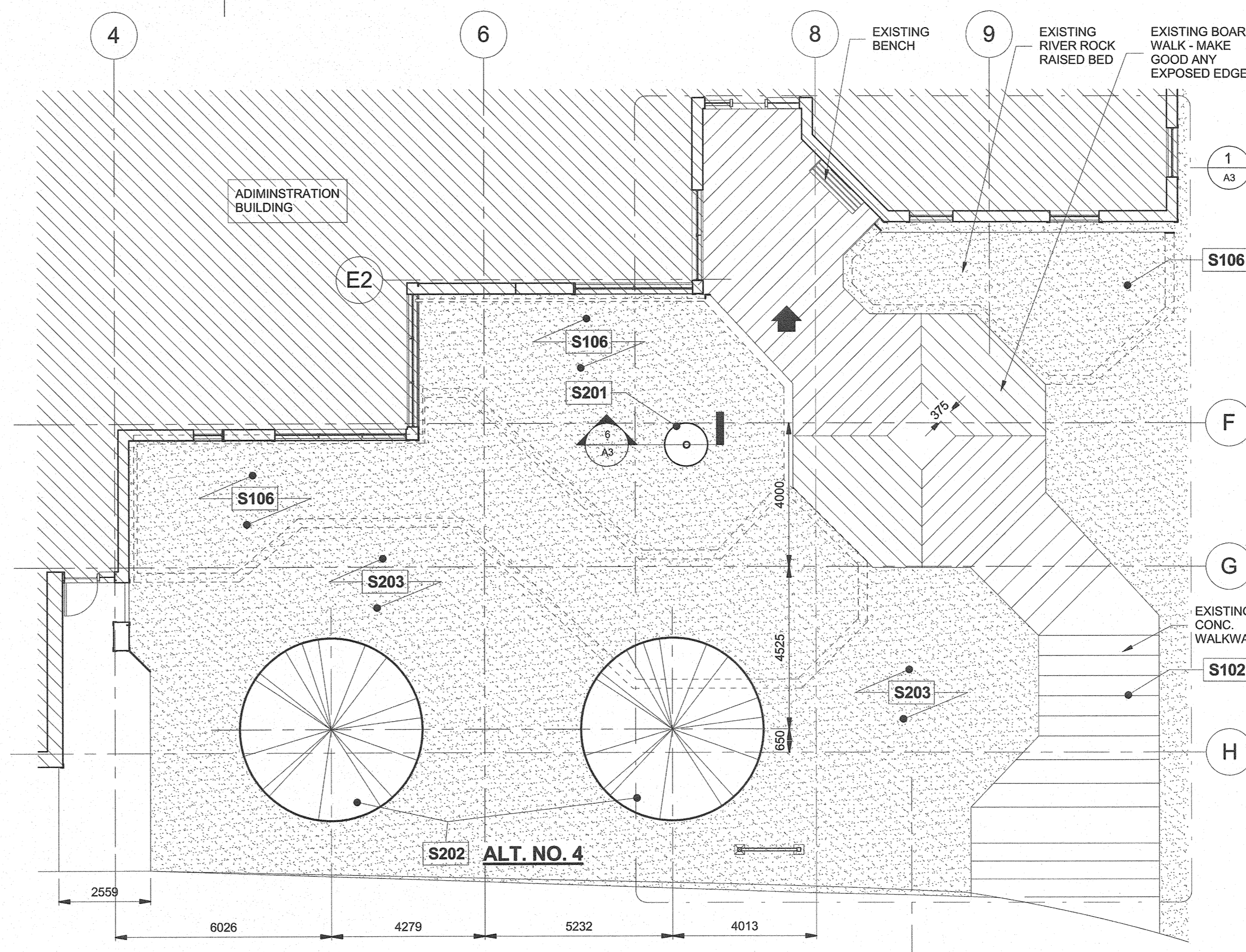
project no.
no. du projet 151-06165-06

drawing no.
dessiné no. A1



1 SITE PLAN
A2 1 : 500

NOTE: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL SCOPE OF WORK

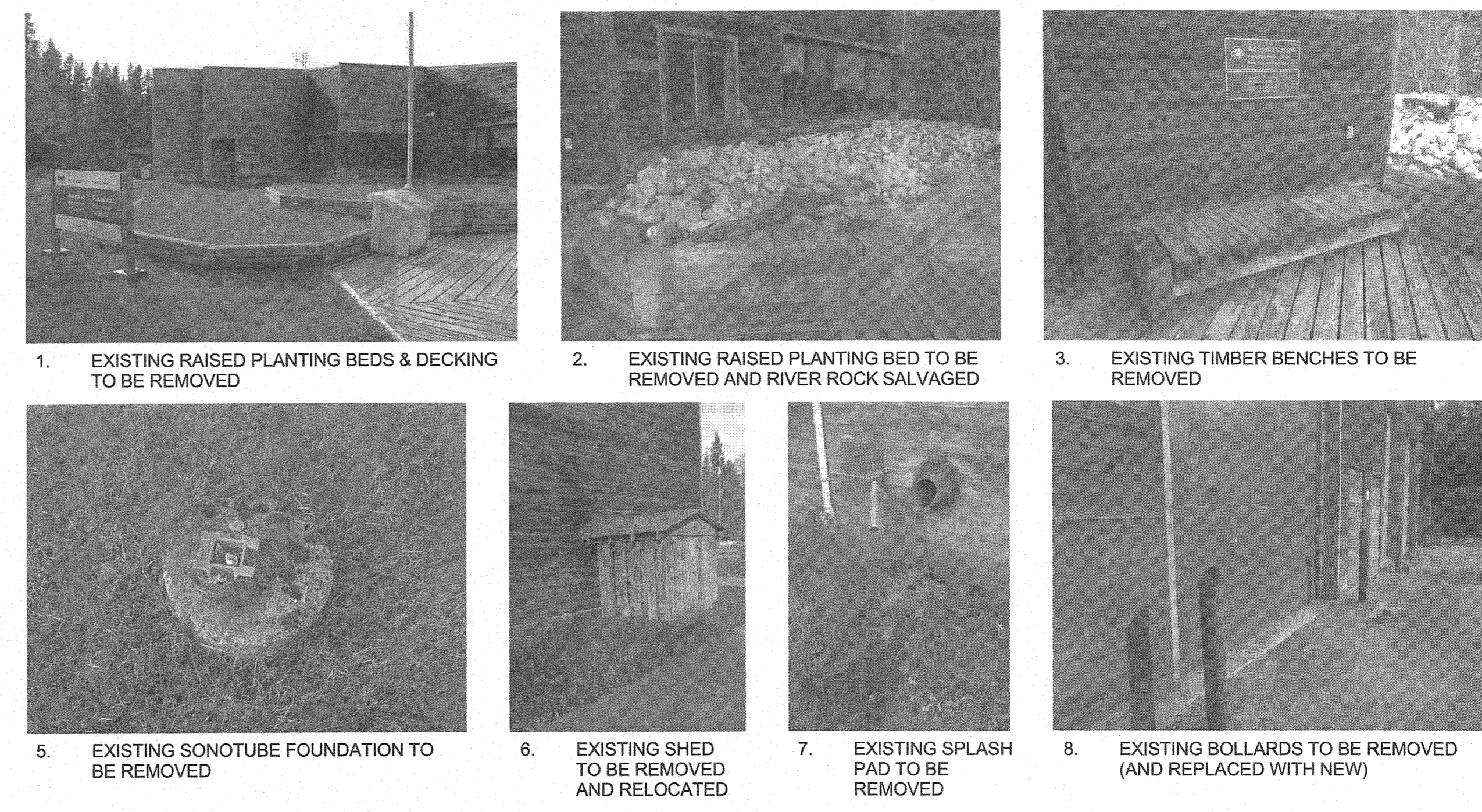


2 NEW MAIN ENTRANCE PLAN
A2 1 : 100

LANDSCAPE SCHEDULE

- ← DIRECTION OF SURFACE DRAINAGE
- [Pattern] NEW SEEDED AREA
- [Pattern] EXIST. CONCRETE PAVING
- [Pattern] RE-PURPOSED RIVER ROCK
- [Pattern] PT WOOD BOARDWALK C/W CEDAR TONE FINISH
- [Symbol] AMERICAN MOUNTAIN-ASH (SORBUS AMERICANA) TREES, TWO (2)

| NOTE | DESCRIPTION |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S100 | SCOPE OF WORK; MAKE GOOD ALL SITE FINISHES UPON COMPLETION OF WORK |
| S101 | EXISTING FENCE TO REMAIN |
| S102 | EXISTING CONCRETE PAVING TO REMAIN |
| S103 | REMOVE EXISTING RAISED LAWN BEDS; REPAIR AND REPLACE WITH SEEDING AT GRADE, MAKE GOOD ANY CONNECTIONS TO AND EXPOSED EDGES OF EXISTING BOARDWALK |
| S104 | EXISTING 127MM DIAM. FLAG POLE AND FOOTING TO BE REMOVED, RETAIN FLAGPOLE, SET ON NEW FOUNDATION AS LOCATED AND DETAILED ON DRAWINGS |
| S105 | REMOVE EXISTING TIMBER DECK; REPLACE W/ NEW BOARDWALK AND SEEDING -ALT#4 |
| S106 | REMOVE EXISTING RAISED PLANTING BED; REPAIR AND REPLACE W/ AT GRADE BED AND SEEDING; SALVAGE RIVER ROCK |
| S107 | REMOVE EXISTING TIMBER BENCHES |
| S108 | LANDING NIC. TO BE CONSTRUCTED LATER BY PUKASKWA NATIONAL PARK |
| S109 | REMOVE EXISTING WOODEN POSTS; PATCH AND MAKE GOOD -ALT#4 |
| S110 | REMOVE 'PARKS CANADA' SIGN; HAND OVER TO PUKASKWA NATIONAL PARK |
| S111 | REMOVE EXISTING FIREWOOD SHED (PUKASKWA NATIONAL PARK TO DETERMINE RELOCATION); PATCH AND MAKE GOOD |
| S112 | REMOVE TWO EXISTING 406MM SONOTUBE FOUNDATIONS (C/W CONDUIT); PATCH AND MAKE GOOD -ALT#4 |
| S114 | REMOVE EXISTING SOD AND TOPSOIL; REPLACE WITH SEEDING AT GRADE |
| S115 | REMOVE EXISTING BOLLARDS, PATCH AND MAKE GOOD, QTY 10; INSTALL NEW BOLLARDS 125MM CLEAR FROM FACE OF NEW WALL |
| S116 | SCUPPER OPENING TO REMAIN. SEAL WITH MEMBRANE FLASHING THROUGH TO WEATHER RESISTANT BARRIER MEMBRANE AND CONTINUE CAP FLASHING OVER - REINSTALL EXISTING DOWNSPOUT - ADD NEW 300X600 CONCRETE SPLASH PAD |
| S117 | EXCAVATE TRENCH 150 x 300 AT FOUNDATION EDGE AS SHOWN ON DRAWING - SEE DETAILS 4&6/A9 |
| S201 | COMPLETE EXISTING FLAGPOLE W/ NEW BASE - SEE DETAIL 6/A3 |
| S202 | INSTALL NEW DECIDUOUS TREE AS PER LANDSCAPE SCHEDULE - ALT#4 |
| S203 | GRADE AND SEED AREA C/W DRAINAGE AWAY FROM BUILDING |



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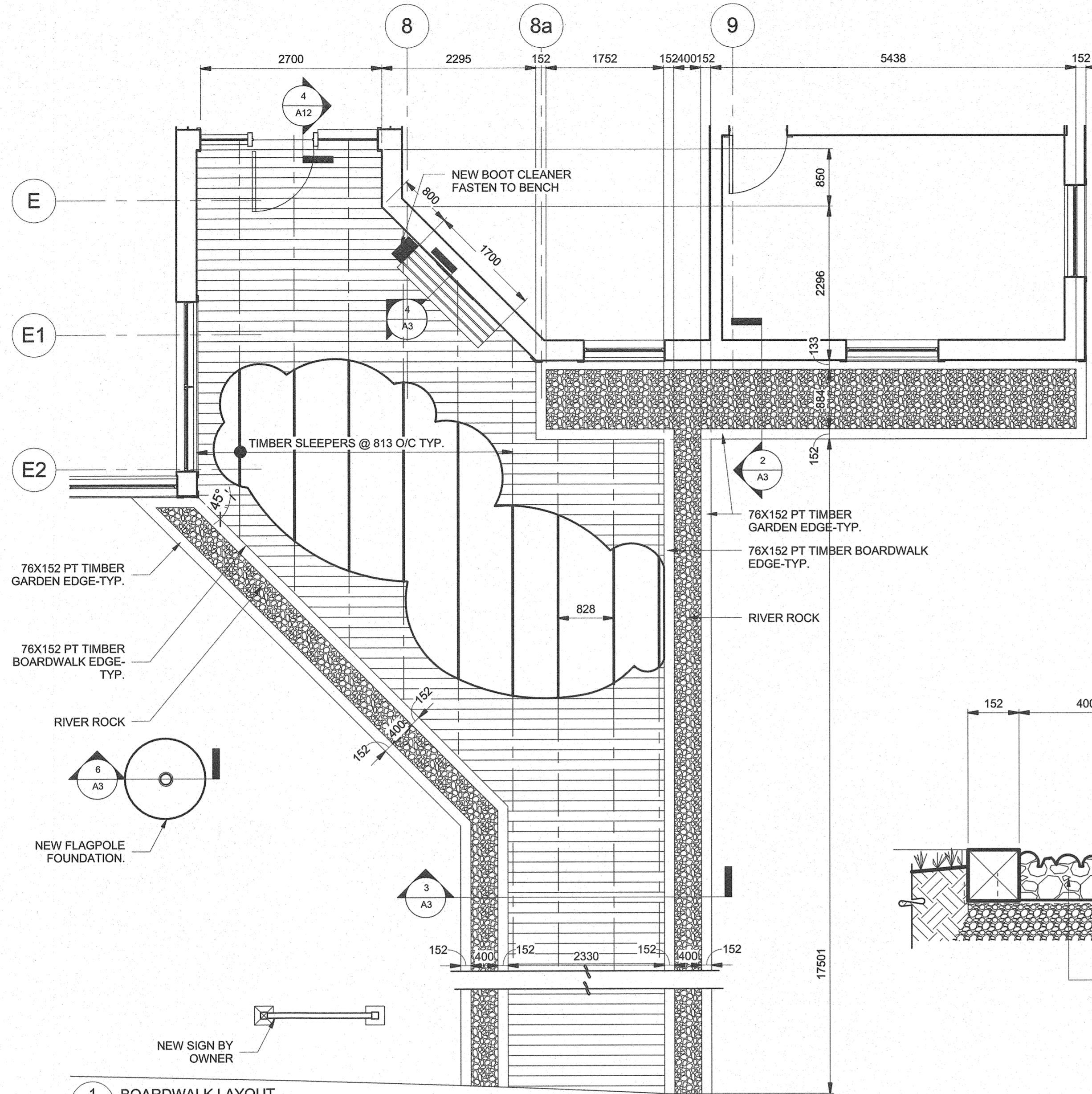
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| | drawing no. - where detailed / dessin no. - où détaillé |

project title / titre du projet
Ontario
PUKASKWA NATIONAL PARK
ADMINISTRATION BUILDING
REPAIR AND UPGRADES PHASE 2

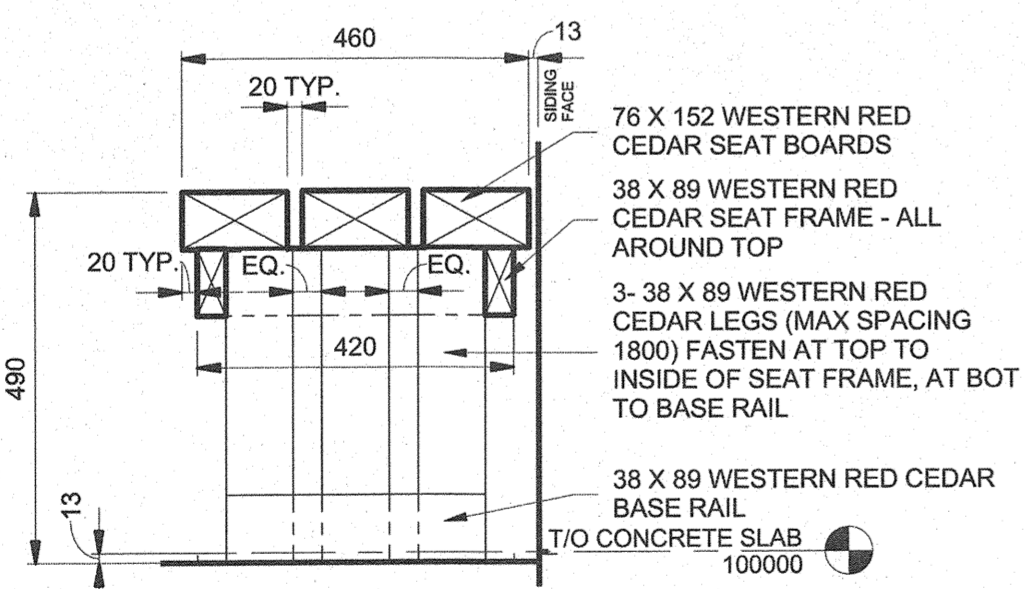
drawing title / titre du dessin
GENERAL ARRANGEMENT
SITE PLAN & NEW MAIN
ENTRANCE PLAN

drawn by / dessiné par MAH
designed by / conçu par ML
approved by / approuvé par TJA
tender submission / soumission de soumission TENDER
project manager / administrateur de projets

project date / date du projet 2017/01/27
project no. / no. du projet 151-06165-06
drawing no. / dessin no. A2



1 BOARDWALK LAYOUT
A3 1:50 ALTERNATIVE NO. 4

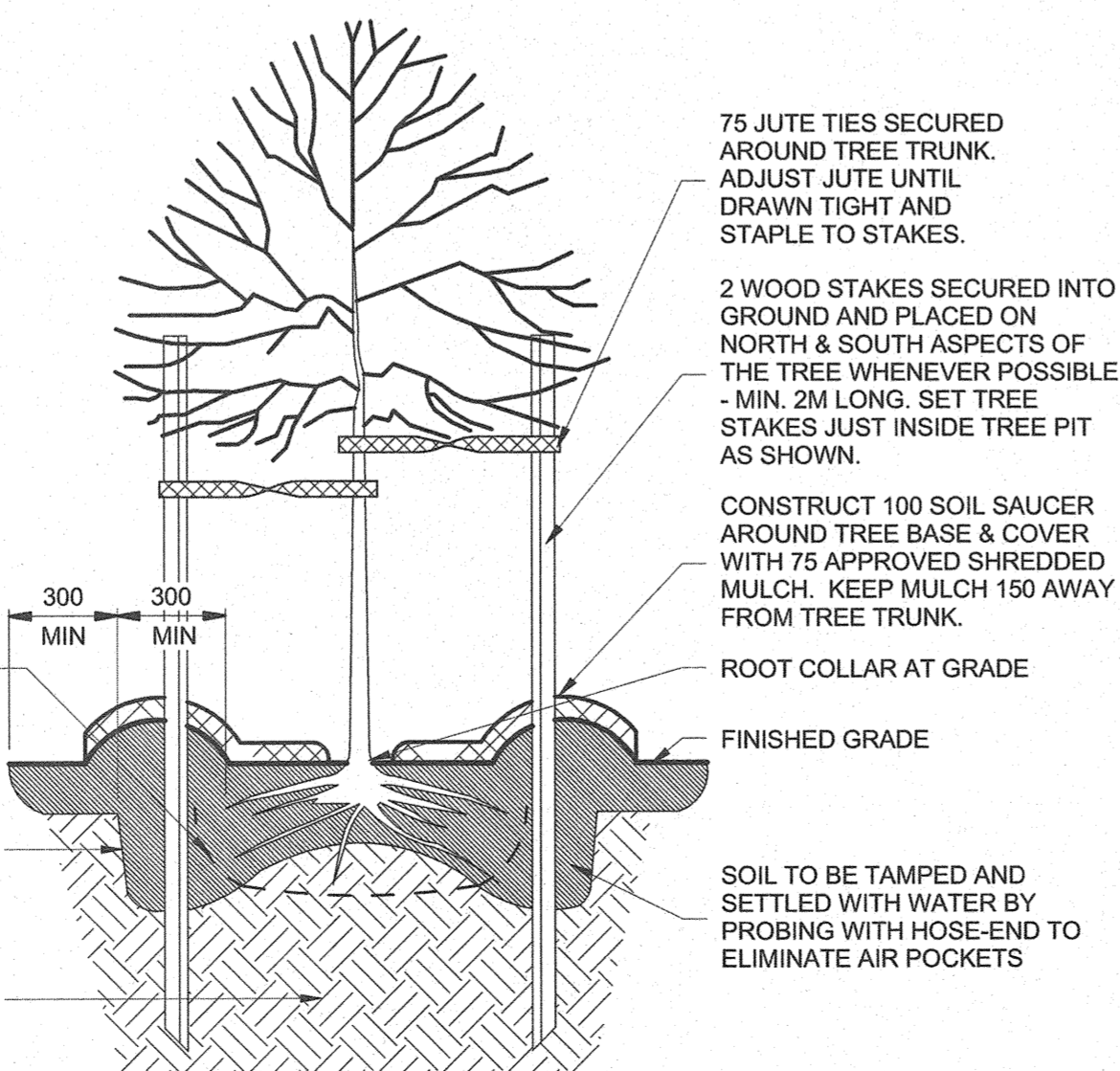


4 BENCH SECTION - END VIEW
A3 1:10 ALTERNATIVE NO. 4

IF ROOTS ARE CONTAINED IN A BURLAP SACK, CUT AND REMOVE TOP 1/2 OF BURLAP & WIRE BASKET FROM ROOTBALL INCLUDING ALL TIE ROPE

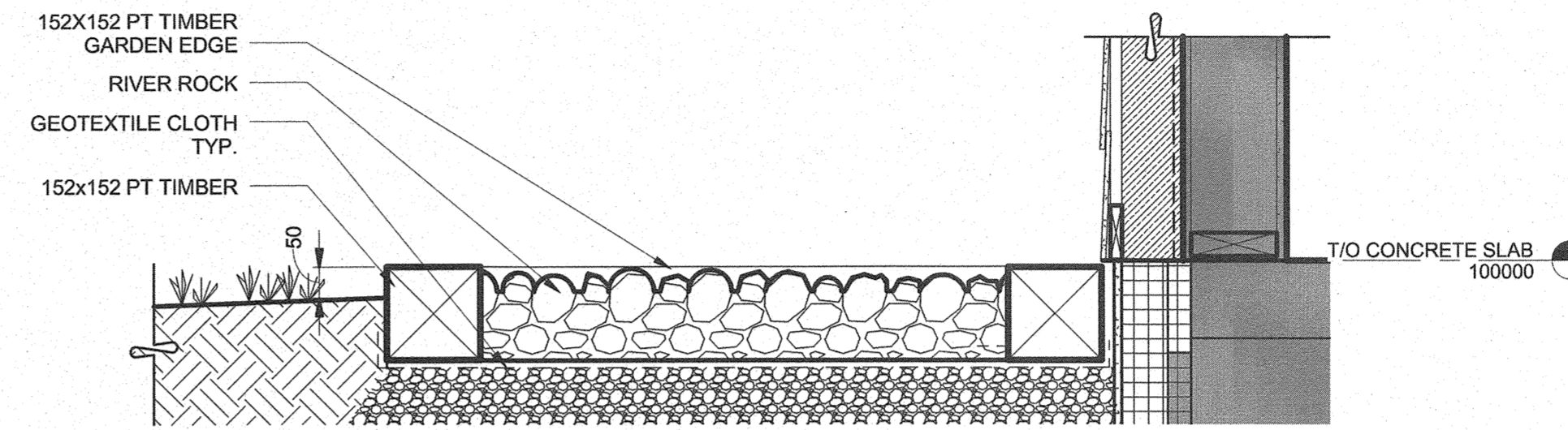
SCARIFY, IRRIGATE AND FERTILIZE THE INSIDE OF THE TREE PIT PRIOR TO PLANTING
BOTTOM OF ROOT SYSTEM TO SIT ON COMPACTED SUBGRADE CARE SHOULD BE TAKEN TO AVOID EXCESSIVE SETTLEMENT OF ROOTS FOLLOWING PLANTING

5 TREE PLANTING DETAIL
A3 1:20 ALTERNATIVE NO. 4

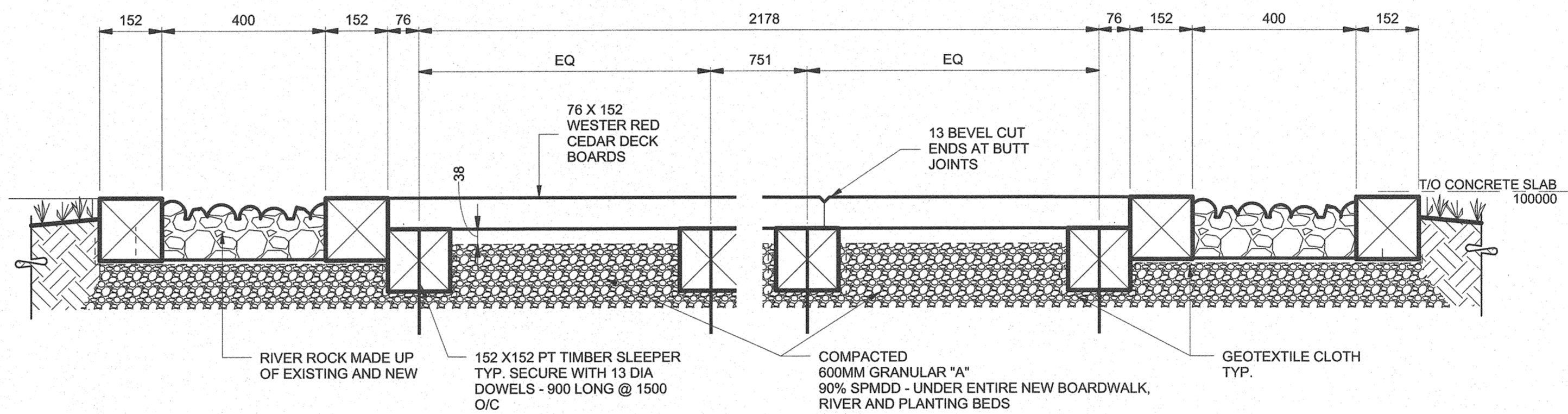


ALTERNATIVE NO. 4

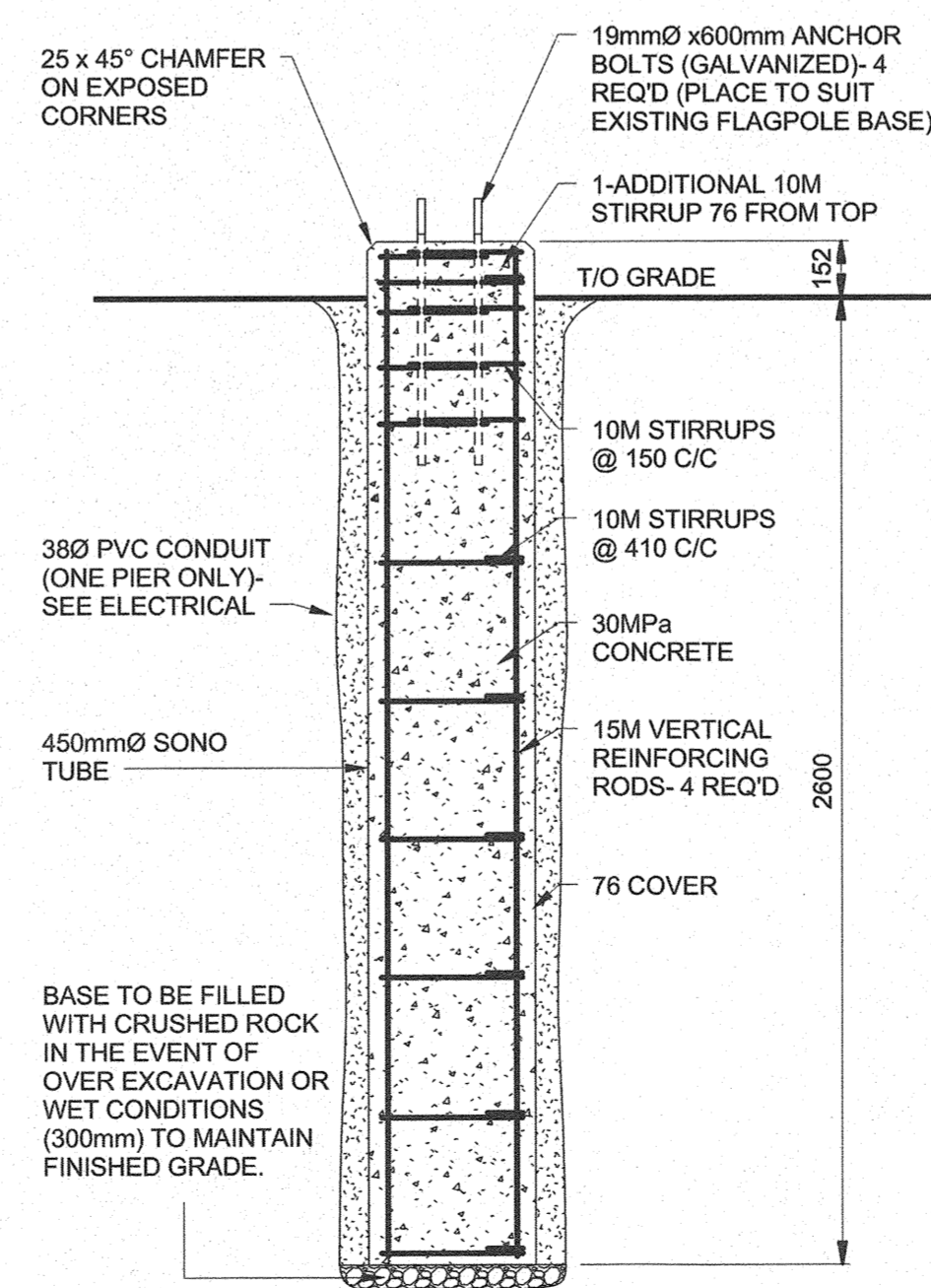
- THE REMOVAL OF EXISTING WALWAY BOARDWALK AND CONCRETE WALKWAY FROM BUILDING TO ROAD
- INSTALLATION OF NEW BOARDWALK C/W ADJACENT ROCK BEDS
- REMOVAL OF 2 EXISTING BENCHES
- INSTALLATION OF 2 NEW BENCH
- INSTALLATION OF 2 NEW TREES
- THE REMOVAL OF POSTS ALONG THE ROADWAY
- THE REMOVAL OF 2 EXISTING BUT ABANDONED LIGHT POST FOUNDATIONS IN THE FRONT LAWN AREA
- REMOVAL OF THE EXISTING SIGN FOUNDATION - RETURN SIGN TO OWNER
- INSTALLATION OF NEW BOOT CLEANER



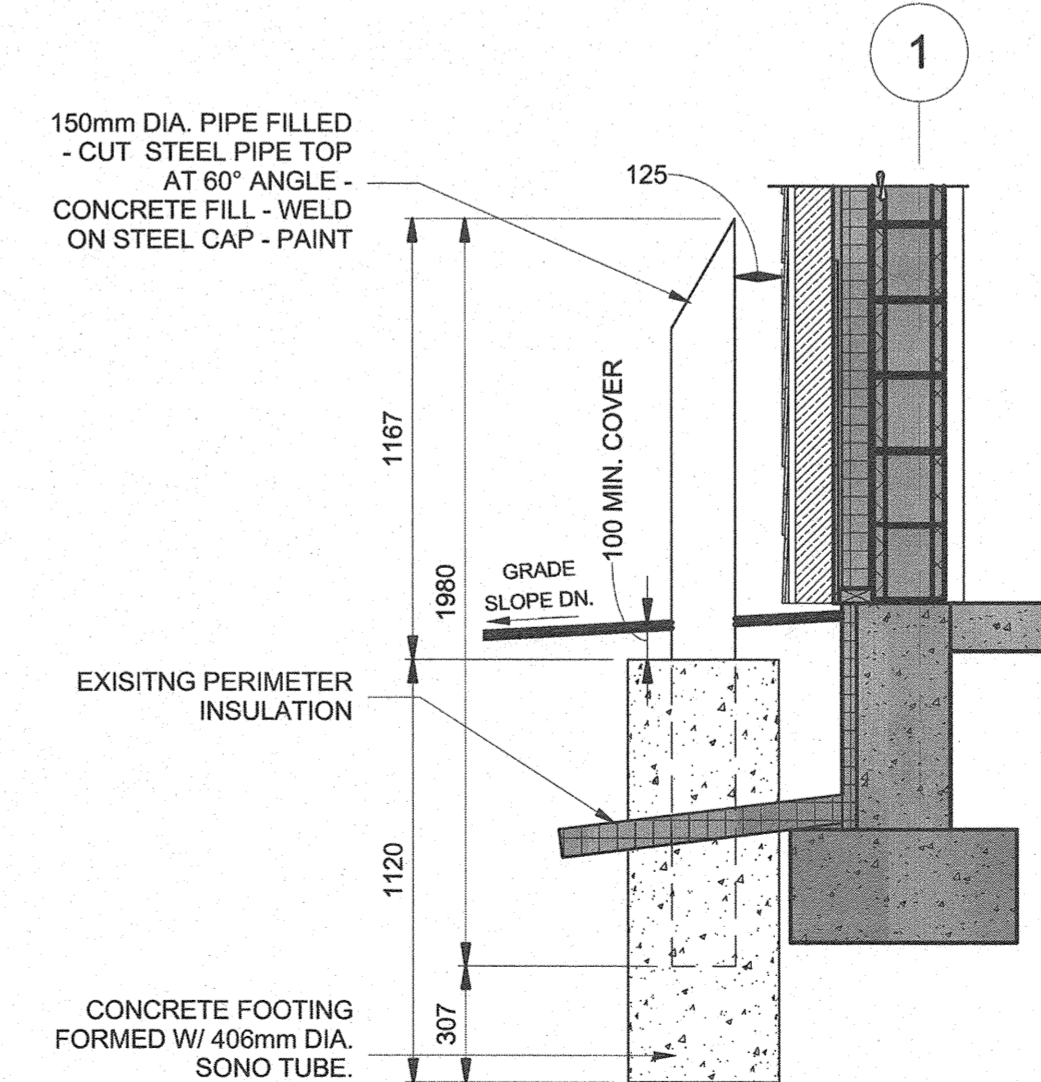
2 PLANTING BED DETAIL
A3 1:10 ALTERNATIVE NO. 4



3 BOARDWALK DETAIL
A3 1:10 ALTERNATIVE NO. 4



6 FLAGPOLE BASE DETAIL
A3 1:20 ALTERNATIVE NO. 4



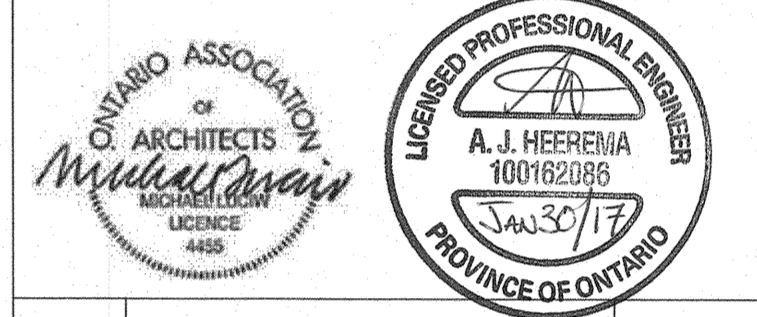
7 BOLLARD DETAIL
A3 1:20 ALTERNATIVE NO. 4



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project title
titre du projet

Ontario
PUKASKWA NATIONAL PARK
ADMINISTRATION BUILDING
REPAIR AND UPGRADES PHASE 2

drawing title
titre du dessin
SITE DETAILS

drawn by
dessiné par

designed by
conc par

approved by
approuvé par

tender
soumission

project date
date du projet

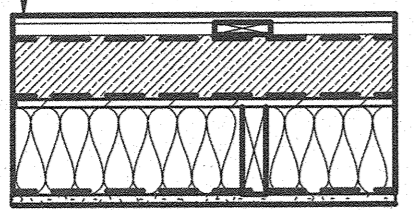
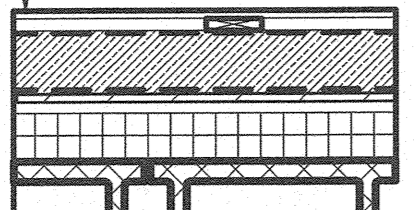
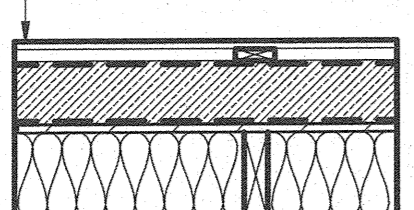
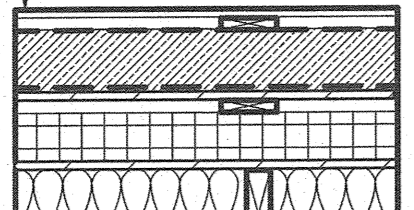
project no.
no. du projet

151-06165-06

drawing no.
dessiné no.
A3

WALL TYPES

NOTE: REFER TO FLOOR PLAN FOR RATED WALL LOCATIONS. WALL ASSEMBLIES TO BE RATED ONLY IN LOCATIONS INDICATED ON FLOOR PLAN.
FOR WOOD STRAPPING, #10 WOOD SCREWS (152 LG), 2 PER STUD OR STRAPPING WHERE RUNNING PERPENDICULAR AND @ 203 O/C WHERE RUNNING PARALLEL. UNLESS NOTED OTHERWISE

| TYPE | ASSEMBLY | NOTES |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| E1 | <p>FIBER CEMENT BOARD (PLANK, PANEL, TRIM) 19 x 89 VERT. WOOD STRAPPING @ 406 O/C (MATCH EXIST STUDS) WEATHER RESISTANT BARRIER 100 WOOD FIBER INSULATION BOARD (R14.5) AIR BARRIER 13 PLYWOOD SHEATHING (EXISTING) R-24 BATTS TO FILL CAVITY (EXISTING) 38 x 140 WOOD STUDS @ 400 O/C (EXISTING) VAPOUR BARRIER (EXISTING) 16 GYPSUM BOARD (EXISTING)</p>  | |
| E2 | <p>FIBER CEMENT BOARD (PLANK, PANEL, TRIM) 19 x 89 VERT. WOOD STRAPPING @ 406 O/C (MATCH EXIST STRAPPING) WEATHER RESISTANT BARRIER 100 WOOD FIBER INSULATION BOARD (R14.5) AIR BARRIER 13 PLYWOOD SHEATHING (EXISTING) WOOD STRAPPING (EXISTING) 75 RIGID INSULATION (EXISTING) VAPOUR BARRIER (EXISTING) 190 CMU (EXISTING)</p>  | SEE DETAILS 1, 2 & 4 ON SHEET A9 |
| E3 | <p>FIBER CEMENT BOARD (PLANK, PANEL, TRIM) 19 x 89 VERT. WOOD STRAPPING @ 406 O/C (MATCH STUDS) WEATHER RESISTANT BARRIER 100 WOOD FIBER INSULATION BOARD (R14.5) AIR BARRIER 13 PLYWOOD SHEATHING R-24 BATTS TO FILL CAVITY 38 x 140 WOOD STUDS @ 406 O/C VAPOUR BARRIER 16 GYPSUM BOARD</p>  | |
| E4 | <p>FIBER CEMENT BOARD (PLANK, PANEL, TRIM) 19 x 89 VERT. WOOD STRAPPING @ 406 O/C (MATCH EXIST STUDS) WEATHER RESISTANT BARRIER 100 WOOD FIBER INSULATION BOARD (R14.5) AIR BARRIER 13 PLYWOOD SHEATHING (EXISTING) WOOD STRAPPING (EXISTING) 75 RIGID INSULATION (EXISTING) 16 PLYWOOD SHEATHING (EXISTING) 38 x 140 WOOD STUDS @ 400 O/C (EXISTING) 16 PLYWOOD SHEATHING (EXISTING)</p>  | |

ABBREVIATIONS

| | |
|---------|-------------------------------|
| AFB | ABOVE FINISHED FLOOR |
| B.F. | BARrier FREE |
| BH | BLOCK HEATER |
| B/S | BOTH SIDES |
| BLK | BLOCK |
| C/C | CENTRE TO CENTRE |
| CT | CERAMIC TILE |
| CW | COMPLETE WITH |
| CONC. | CONCRETE |
| CONT. | CONTINUOUS |
| DWG | DRAWING |
| EL/ELEV | ELEVATION |
| F.A.R. | FIRE ACCESS ROUTE |
| FEC | FIRE EXTINGUISHER CABINET |
| FND. | FOUNDATION |
| FOS | FACE OF STUD |
| GALV. | GALVANIZED |
| G.L. | GRID LINE |
| GWG | GEORGIAN WIRE GLASS |
| GYP | GYPSUM BOARD |
| I/F | INSIDE FACE |
| MAX. | MAXIMUM |
| MDF | MEDIUM DENSITY FIBER |
| MECH. | MECHANICAL |
| MIN. | MINIMUM |
| NIC | NOT IN CONTRACT |
| OSB | ORIENTED STRAND BOARD |
| PTD | PAINTED |
| P.LAM | PLASTIC LAMINATE |
| PLYWD | PLYWOOD |
| PT | PRESSURE TREATED |
| RD | ROOF DRAIN |
| RWL | RAIN WATER LEADER |
| S.S. | STAINLESS STEEL |
| SUSP. | SUSPENDED |
| T&G | TONGUE AND GROOVE |
| TB AL | THERMALLY BROKEN ALUMINUM |
| TBHM | THERMALLY BROKEN HOLLOW METAL |
| TDP | THERMO-FUSED DECORATIVE PANEL |
| THK. | THICK |
| T/O | TOP OF |
| T.O.C. | TOP OF CONCRETE |
| TYP. | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |
| UNDSIDE | UNDERSIDE |
| VCT | VINYL COMPOSITE TILE |
| W | WITH |
| W/C | WATER CLOSET |
| WR | WASHROOM |

SYMBOLS

| | |
|--|----------------------------|
| | CONSTRUCTION ASSEMBLY |
| | WINDOW TYPE |
| | MATERIAL FINISHES NOTE |
| | CEILING TYPE AND ELEVATION |
| | DOOR TYPE |
| | REVISION NUMBER/LETTER |
| | CONSTRUCTION NOTE |
| | MAIN ENTRANCE ARROW |
| | NORTH ARROW |

| Name of Practice: | | Building Code Reference | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------|------------------------------|------------------------------|-------------------------|------------------------------|------------------|-----------------------------|------------------|-------|----------------------------------------------------------------------------|-------------------------|------|-----|-----|---------------------------|-----------------------------------------|--------------------------|-----|------------------|-------|-----|-----|--------------------------|-----|-----|-----|---------------------|-----|-----|-----|------|-----|-----|-------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-------------|-----|-----|-----|-----|-----|-----|-----|--|
| ARCHITECTURE 49 1269 PREMIER WAY, THUNDER BAY, ONTARIO, CANADA P7B 0A3 T. (807) 625-6700 F. (807) 623-4491 WWW.ARCHITECTURE49.COM Certificate of Practice No.: 5312 | | References are to Division B unless noted (A) for Division A or (C) for Division C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name of Project: PUKASKWA NATIONAL PARK ADMINISTRATION BUILDING REPAIRS AND UPGRADES PHASE 2 Location: Pukaskwa National Park, Hwy 627 Via Hatlie Cove, Heron Bay, ON | | Part 1 Part 3 Part 9 11.1 to 11.4 1.1.2. [A] 1.1.2. [A] & 9.10.1.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| National Building Code Data Matrix Parts 3 or 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Project Description | <input type="checkbox"/> New <input type="checkbox"/> Part 11 <input checked="" type="checkbox"/> Part 3 <input type="checkbox"/> Part 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Major Occupancy(ies) | Group D | 3.1.2.1(1) 9.10.2. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Building Area (m ²) | Existing 1500m ² New Total 1500m ² | 1.4.1.2. [A] 1.4.1.2. [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Gross Area | Existing 1500m ² New Total 1500m ² | 1.4.1.2. [A] 1.4.1.2. [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Number of Storeys | Above Grade 1 Below Grade | 1.4.1.2. [A] & 3.2.1.1. 1.4.1.2. [A] & 9.10.4. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Number of Streets / Fire Fighter Access | 1 | 3.2.2.10. & 3.2.5. 9.10.20. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Building Classification | | 3.2.2.20.-83. 9.10.2. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Sprinkler System Proposed | <input 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 checked="" 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. N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Construction Restrictions | <input type="checkbox"/> Combustible permitted <input type="checkbox"/> Non-combustible required <input checked="" type="checkbox"/> Both | 3.2.2.20.-83. 9.10.6. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Mezzanine(s) Area m ² | N/A | 3.2.1.1.(3)-(6). 9.10.4.1. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Occupant Load based on | <input type="checkbox"/> m ² / person <input checked="" type="checkbox"/> design of building Basement Occupancy N/A Load N/A persons 1st Floor Occupancy D Load ... persons 2nd Floor Occupancy N/A Load N/A persons Additional floors added at bottom. | 3.1.17. 9.9.1.3. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | Barrier-free Design | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain) | 3.8. 9.5.2. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Hazardous Substances | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 3.3.1.2. & 3.3.1.20. 9.10.1.3.(4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Required Fire Resistance Rating (FRR) | <table border="1"> <tr> <th>Horizontal Assemblies FRR (Hours)</th> <th>Listed Design No. or Description (SG-2)</th> <th>3.2.2.20.-83. & 3.2.1.4.</th> <th>9.10.8. 9.10.9.</th> </tr> <tr> <td>Floors NONE Hours</td> <td>N/A</td> <td></td> <td></td> </tr> <tr> <td>Roof NONE Hours</td> <td>N/A</td> <td></td> <td></td> </tr> <tr> <td>Mezzanine N/A Hours</td> <td>N/A</td> <td></td> <td></td> </tr> <tr> <th>FRR of Supporting Members</th> <th>Listed Design No. or Description (SG-2)</th> <th></th> <th></th> </tr> <tr> <td>Floors N/A Hours</td> <td>N/A</td> <td></td> <td></td> </tr> <tr> <td>Roof N/A Hours</td> <td>N/A</td> <td></td> <td></td> </tr> <tr> <td>Mezzanine N/A Hours</td> <td>N/A</td> <td></td> <td></td> </tr> </table> | Horizontal Assemblies FRR (Hours) | Listed Design No. or Description (SG-2) | 3.2.2.20.-83. & 3.2.1.4. | 9.10.8. 9.10.9. | Floors NONE Hours | N/A | | | Roof NONE Hours | N/A | | | Mezzanine N/A Hours | N/A | | | FRR of Supporting Members | Listed Design No. or Description (SG-2) | | | Floors N/A Hours | N/A | | | Roof N/A Hours | N/A | | | Mezzanine N/A Hours | N/A | | | | | | | | | | | | | | | | | | | | | | | | | |
| Horizontal Assemblies FRR (Hours) | Listed Design No. or Description (SG-2) | 3.2.2.20.-83. & 3.2.1.4. | 9.10.8. 9.10.9. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floors NONE Hours | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Roof NONE Hours | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mezzanine N/A Hours | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FRR of Supporting Members | Listed Design No. or Description (SG-2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floors N/A Hours | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Roof N/A Hours | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mezzanine N/A Hours | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | Spatial Separation - Construction of Exterior Walls | | 3.2.3. 9.10.14. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Wall</th> <th>Area of EBF (m²)</th> <th>L.D. (m)</th> <th>L/H or H/L</th> <th>Permitted Max. % of Openings</th> <th>Proposed % of Openings</th> <th>FRR (Hours)</th> <th>Listed Design or Description</th> <th>Comb Const</th> <th>Comb Constr. Nonc. Cladding</th> <th>Non-Comb Constr.</th> </tr> </thead> <tbody> <tr> <td>North</td> <td>N/A</td> <td>N/A</td> <td><3:1</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>NO</td> <td>NO</td> <td>NO</td> </tr> <tr> <td>South</td> <td>N/A</td> <td>N/A</td> <td>>10:1</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>East</td> <td>N/A</td> <td>N/A</td> <td>3:1 TO 10:1</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>West</td> <td>N/A</td> <td>N/A</td> <td>3:1 TO 10:1</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> | 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 Constr. Nonc. Cladding | Non-Comb Constr. | North | N/A | N/A | <3:1 | N/A | N/A | N/A | N/A | NO | NO | NO | South | N/A | N/A | >10:1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | East | N/A | N/A | 3:1 TO 10:1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | West | N/A | N/A | 3:1 TO 10:1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 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 Constr. Nonc. Cladding | Non-Comb Constr. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| North | N/A | N/A | <3:1 | N/A | N/A | N/A | N/A | NO | NO | NO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South | N/A | N/A | >10:1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| East | N/A | N/A | 3:1 TO 10:1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West | N/A | N/A | 3:1 TO 10:1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | Plumbing Fixture Requirements | <table border="1"> <thead> <tr> <th>Male/Female Count @ 50 %/ 50 % except as noted otherwise</th> <th>Occupant Load</th> <th>BC Table Number</th> <th>Fixtures Required</th> <th>Fixtures Provided</th> <th>Building Code Reference</th> </tr> </thead> <tbody> <tr> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td><input checked="" type="checkbox"/> Part 3 <input type="checkbox"/> Part 9</td> </tr> <tr> <td>Basement: Occupancy N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>1st Floor: Occupancy N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>2nd Floor: Occupancy N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> | Male/Female Count @ 50 %/ 50 % except as noted otherwise | Occupant Load | BC Table Number | Fixtures Required | Fixtures Provided | Building Code Reference | N/A | N/A | N/A | N/A | N/A | <input checked="" type="checkbox"/> Part 3 <input type="checkbox"/> Part 9 | Basement: Occupancy N/A | N/A | N/A | N/A | N/A | N/A | 1st Floor: Occupancy N/A | N/A | N/A | N/A | N/A | N/A | 2nd Floor: Occupancy N/A | N/A | N/A | N/A | N/A | N/A | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2nd Floor: Occupancy N/A | N/A | N/A | N/A | N/A | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | Other (describe): | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

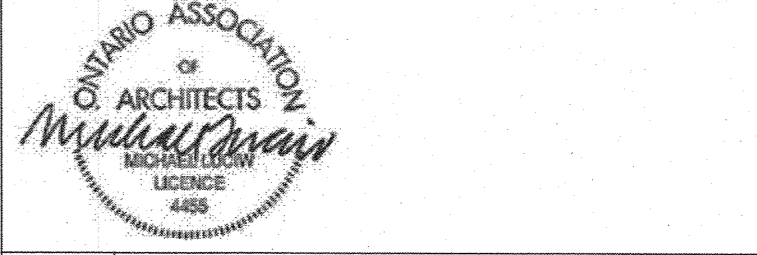
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| 03 | | |
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| 01 | | |
| revision | | date |

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project title
titre du projet
Ontario
PUKASKWA NATIONAL PARK
ADMINISTRATION BUILDING
REPAIR AND UPGRADES PHASE 2

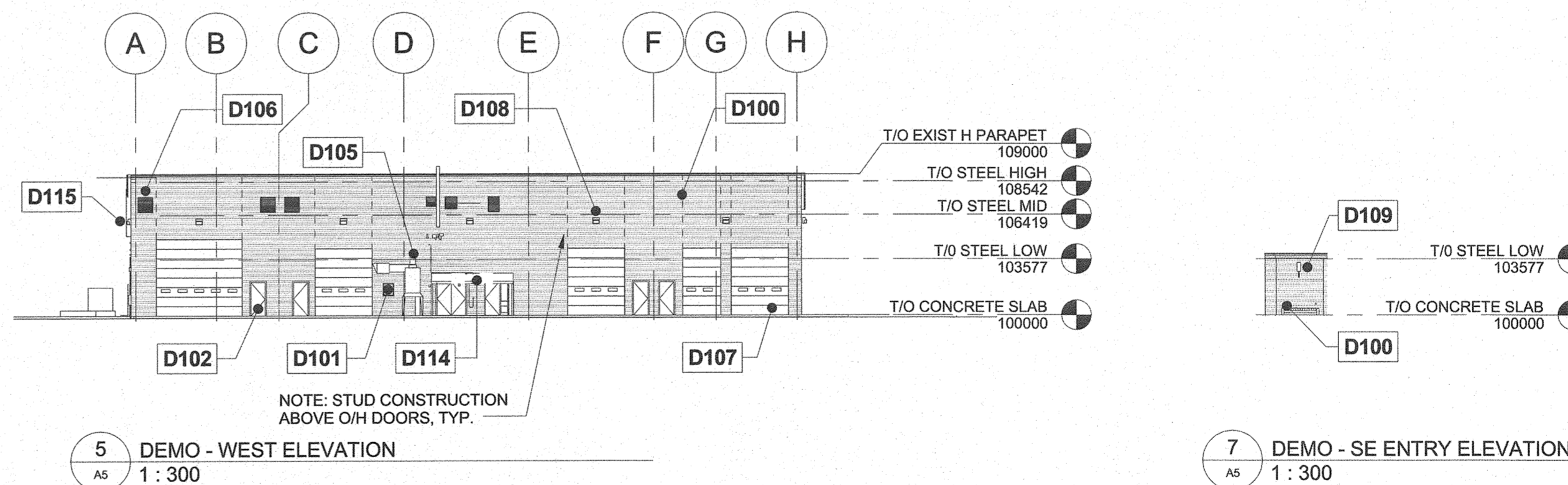
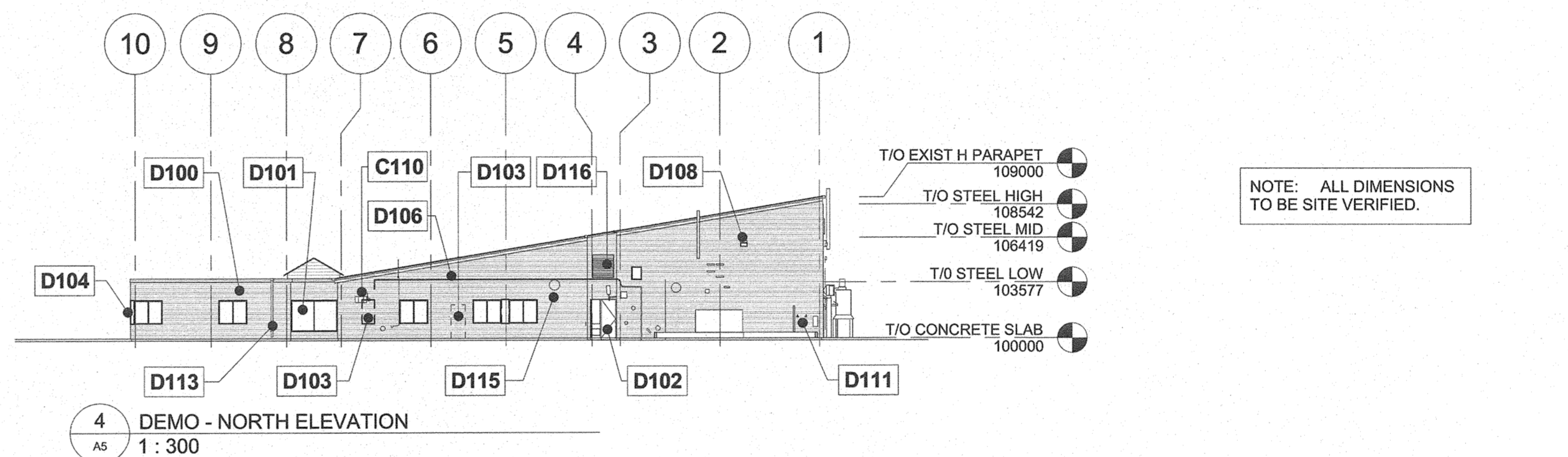
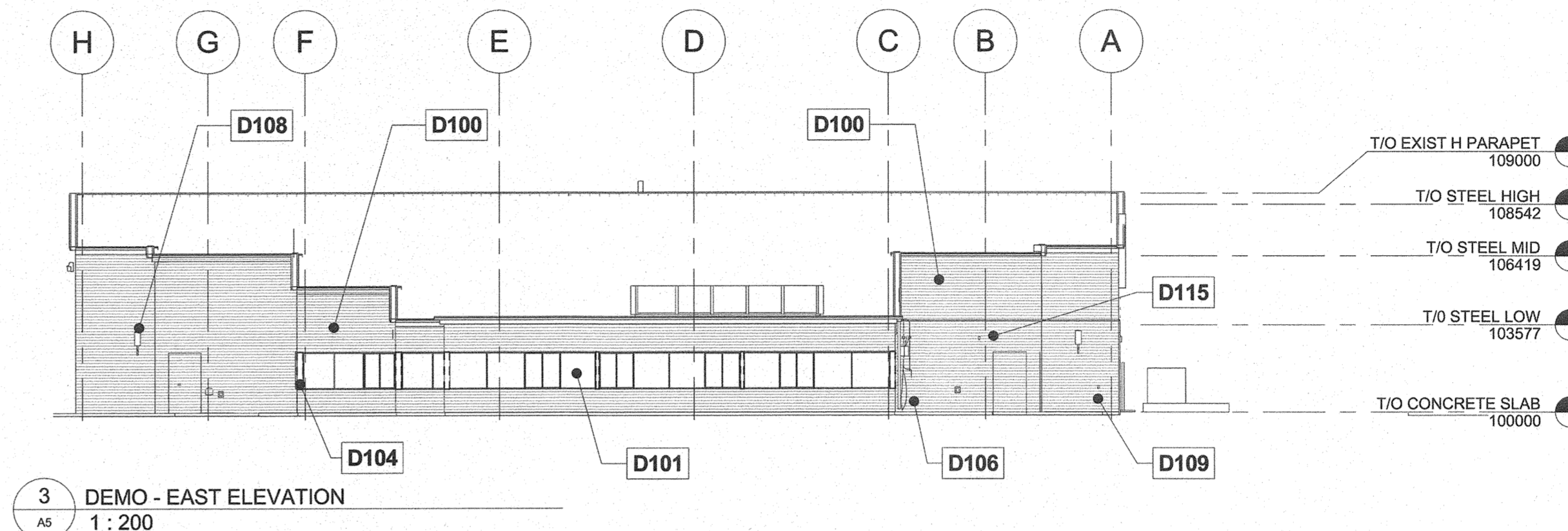
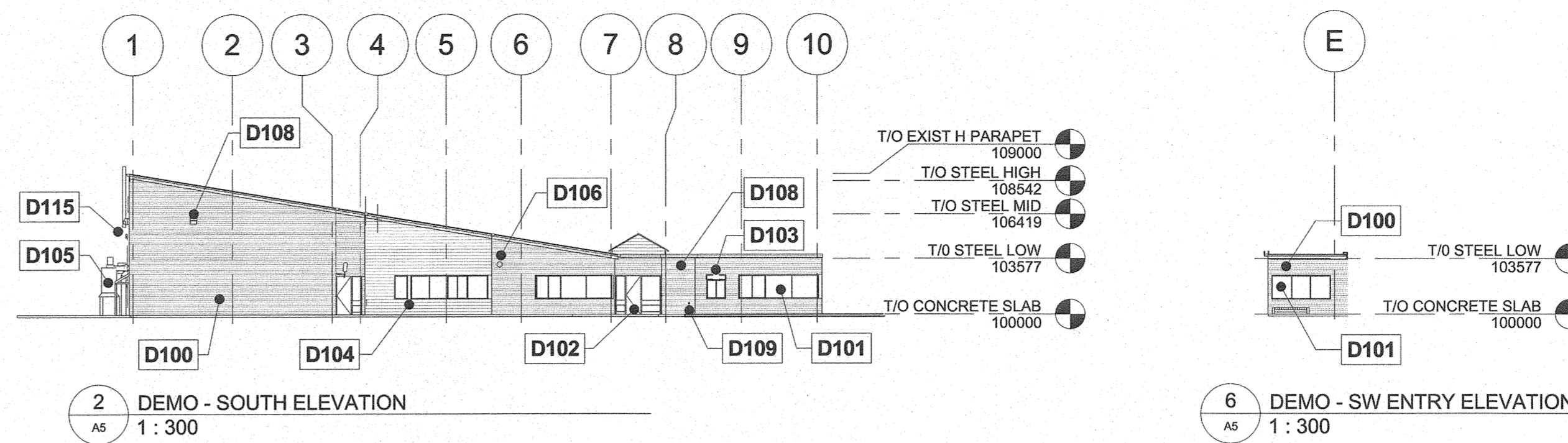
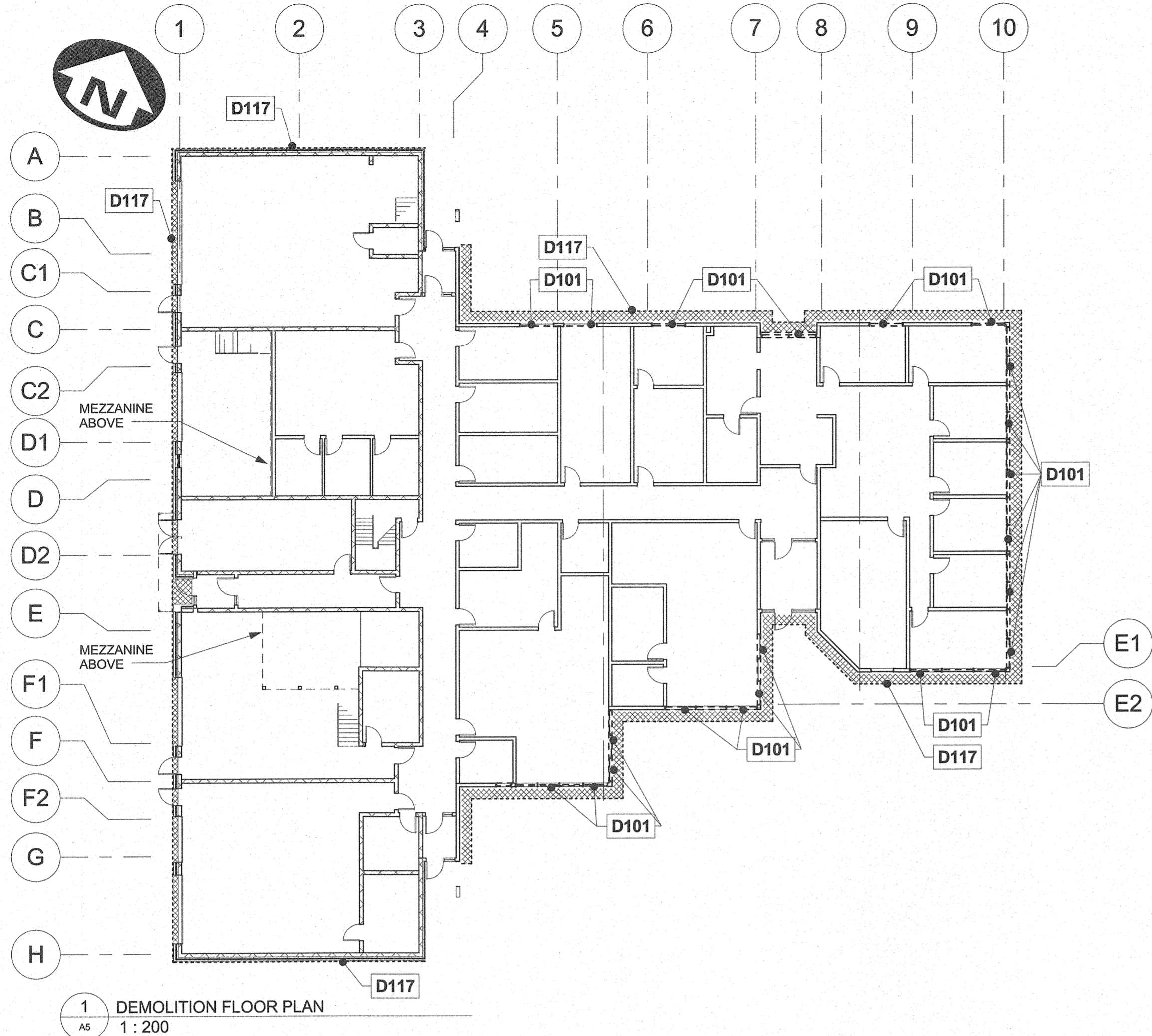
drawing title
titre du dessin
CONSTRUCTION ASSEMBLIES
NBC MATRIX

| | | |
|-----------------------------|--------|----------------------------------------------|
| drawn by dessiné par | MAH | |
| designed by conc par | ML | |
| approved by approuvé par | TJA | |
| tender soumission | TENDER | project manager administrateur de projets |

project date
date du projet
2017/01/27

project no.
no. du projet
151-06165-06

drawing no.
dessiné no.
A4



NOTE: ALL DIMENSIONS TO BE SITE VERIFIED.

| DEMOLITION NOTES | |
|------------------|---------------------------------------------------------------------------------------------------------------------|
| NOTE | DESCRIPTION |
| D100 | REMOVE EXISTING SIDING UP TO EXISTING BUILDING SHEATHING; REPAIR/REPLACE DAMAGED SHEATHING AS REQUIRED |
| D101 | REMOVE EXISTING EXTERIOR WINDOWS |
| D102 | REMOVE EXISTING PEDESTRIAN DOORS (O/H DOORS TO REMAIN) EXTERIOR DOORS - REPLACE AS NOTED ON SHEETS A1, A7 AND A12 |
| D103 | REMOVE PORTION OF WALL TO CONSTRUCT OPENING FOR WINDOW OR DOOR |
| D104 | EXISTING PREFIN. ALUMINUM PANEL TO BE REMOVED |
| D105 | DUST COLLECTOR TO BE REMOVED, REFER TO MECHANICAL |
| D106 | ALL MECHANICAL ITEMS (UNLESS OTHERWISE NOTED) TO BE RE-LOCATED TO NEW WALL ASSEMBLY, REFER TO MECHANICAL |
| D107 | EXISTING OVERHEAD STEEL DOORS TO REMAIN; REPLACE SEALS |
| D108 | ALL EXISTING EXTERIOR LIGHTING TO BE REMOVED AND REPLACED WITH NEW; REFER TO ELECTRICAL |
| D109 | ALL EXISTING EXTERIOR RECPTACLES TO BE REMOVED AND REUSED; REFER TO ELECTRICAL |
| D111 | REMOVE AND SALVAGE EXISTING HOOKS FOR RE-USE |
| D113 | REMOVE EXISTING DOWNSPOUT AND STORE FOR RE-USE |
| D114 | REMOVE EXISTING WOOD FRAME SHINGLED CANOPY |
| D115 | OWNER TO SPECIFY WHICH EQUIPMENT, HARDWARE AND COMMUNICATION SYSTEMS ON EXTERIOR WALLS TO BE RELOCATED OR ABANDONED |
| D116 | GRILLE TO BE REMOVED, REFER TO MECHANICAL - INFILL WALL WITH E3 CONSTRUCTION |
| D117 | ASBESTOS REMOVAL LOCATIONS - SEE DETAILS |

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ONTARIO ASSOCIATION OF ARCHITECTS
A. J. HEEPEMA
100162086
JAN 30/17
PROVINCE OF ONTARIO

| | |
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| 04 | |
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| revision | date |

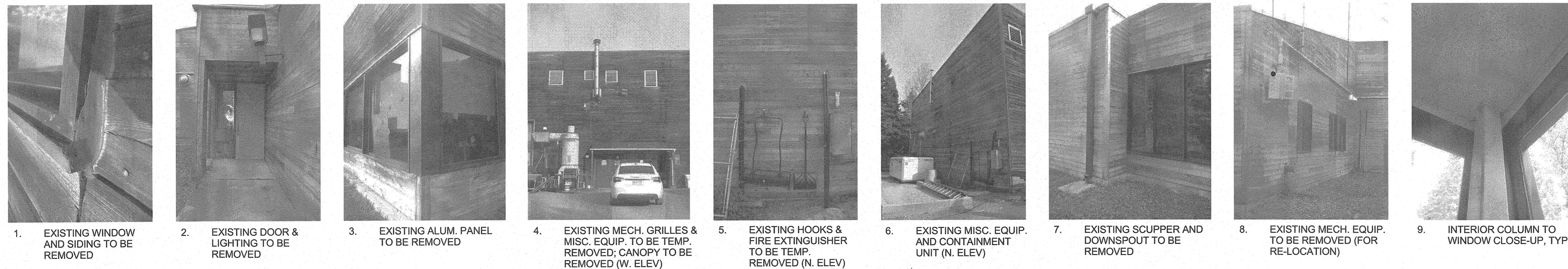
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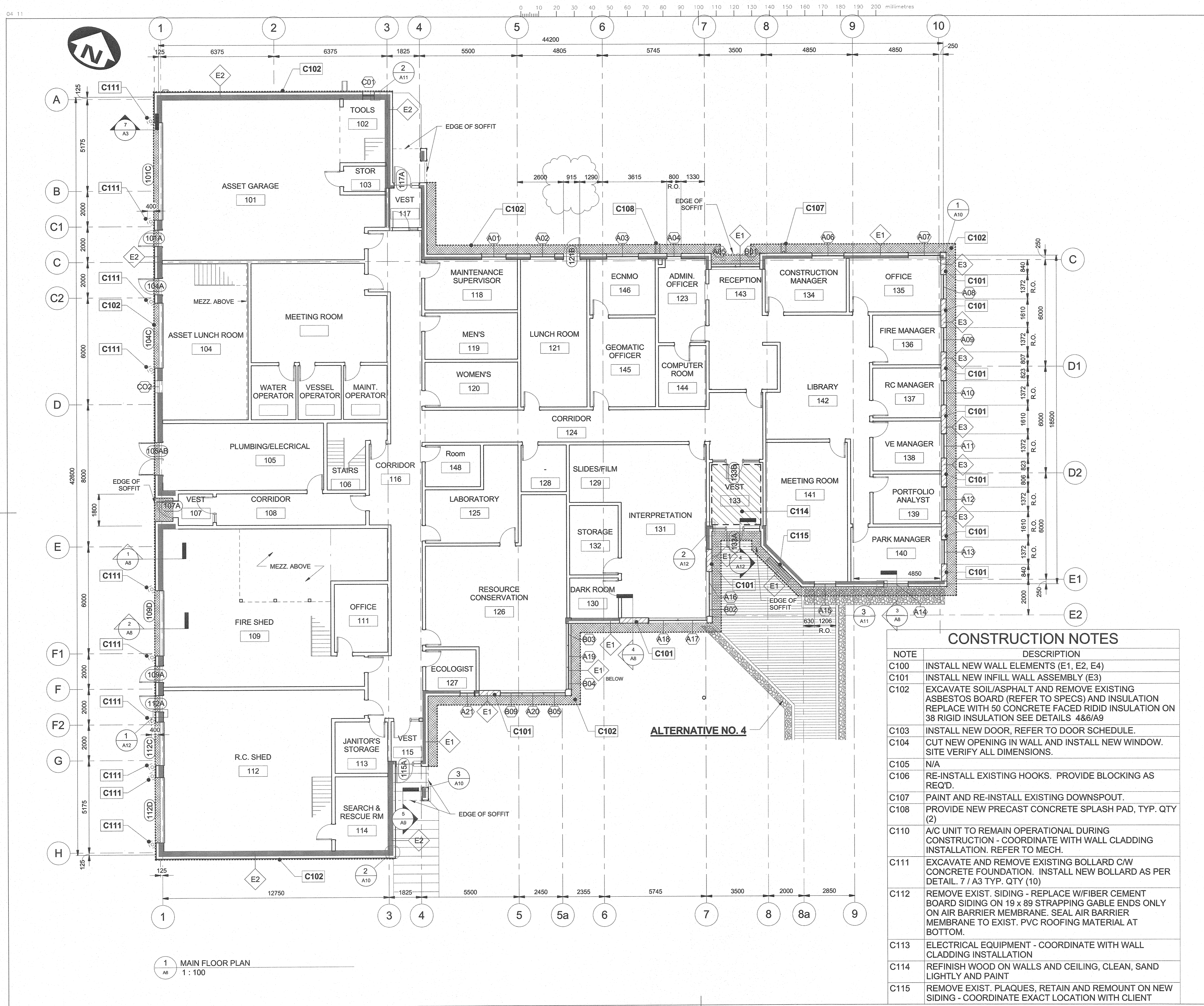
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project title / titre du projet
Ontario
PUKASKWA NATIONAL PARK ADMINISTRATION BUILDING REPAIR AND UPGRADES PHASE 2

drawing title / titre du dessin
DEMOLITION PLAN AND ELEVATIONS

| | | |
|--------------------------------|--------------|---------------------------------------------|
| drawn by / dessiné par | MAH | |
| designed by / conçu par | ML | SM for NL |
| approved by / approuvé par | TJA | JH |
| tender submission / soumission | TENDER | project manager / administrateur de projets |
| project date / date du projet | 2017/01/27 | |
| project no. / no. du projet | 151-06165-06 | |
| drawing no. / dessin no. | A5 | |





1 MAIN FLOOR PLAN
1 : 100

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project title
titre du projet

Ontario

PUKASKWA NATIONAL PARK
ADMINISTRATION BUILDING
REPAIR AND UPGRADES PHASE 2

drawing title
titre du dessin

MAIN FLOOR PLAN
AND PLAN DETAILS

drawn by
dessiné par MAH

designed by
conc. par ML

approved by
approuvé par TJA

tender submission
TENDER

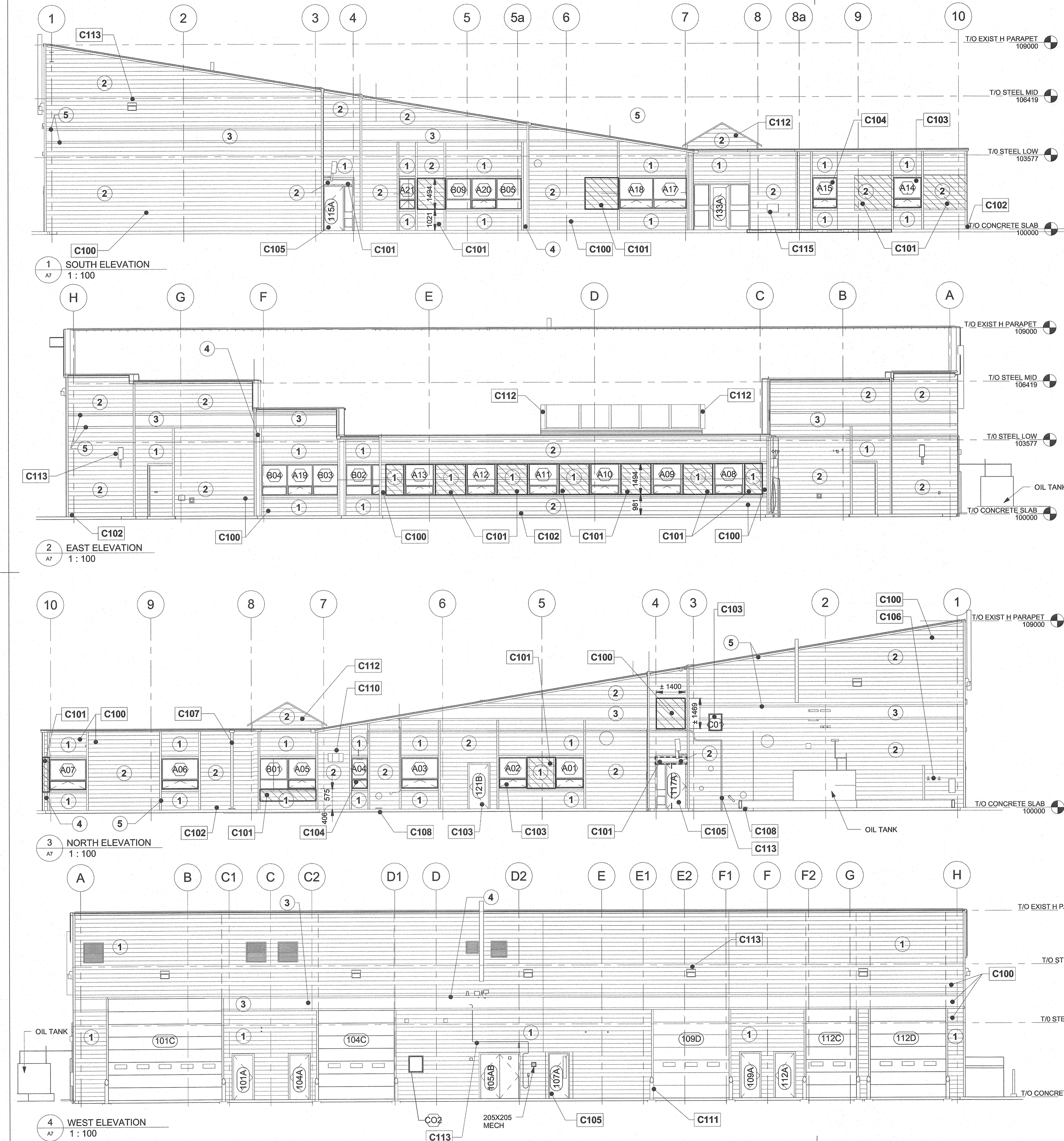
project manager
administrateur de projets

project date
date du projet 2017/01/27

project no.
no. du projet 151-06165-06

drawing no.
dessiné no. A6

| NOTE | DESCRIPTION |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C100 | INSTALL NEW WALL ELEMENTS (E1, E2, E4) |
| C101 | INSTALL NEW INFILL WALL ASSEMBLY (E3) |
| C102 | EXCAVATE SOIL/ASPHALT AND REMOVE EXISTING ASBESTOS BOARD (REFER TO SPECS) AND INSULATION REPLACE WITH 50 CONCRETE FACED RIGID INSULATION ON 38 RIGID INSULATION SEE DETAILS 4&6/A9 |
| C103 | INSTALL NEW DOOR, REFER TO DOOR SCHEDULE. |
| C104 | CUT NEW OPENING IN WALL AND INSTALL NEW WINDOW. SITE VERIFY ALL DIMENSIONS. |
| C105 | N/A |
| C106 | RE-INSTALL EXISTING HOOKS. PROVIDE BLOCKING AS REQ'D. |
| C107 | PAINT AND RE-INSTALL EXISTING DOWNSPOUT. |
| C108 | PROVIDE NEW PRECAST CONCRETE SPLASH PAD, TYP. QTY (2) |
| C110 | A/C UNIT TO REMAIN OPERATIONAL DURING CONSTRUCTION - COORDINATE WITH WALL CLADDING INSTALLATION. REFER TO MECH. |
| C111 | EXCAVATE AND REMOVE EXISTING BOLLARD C/W CONCRETE FOUNDATION. INSTALL NEW BOLLARD AS PER DETAIL. 7 / A3 TYP. QTY (10) |
| C112 | REMOVE EXIST. SIDING - REPLACE W/FIBER CEMENT BOARD SIDING ON 19 x 89 STRAPPING GABLE ENDS ONLY ON AIR BARRIER MEMBRANE. SEAL AIR BARRIER MEMBRANE TO EXIST. PVC ROOFING MATERIAL AT BOTTOM. |
| C113 | ELECTRICAL EQUIPMENT - COORDINATE WITH WALL CLADDING INSTALLATION |
| C114 | REFINISH WOOD ON WALLS AND CEILING, CLEAN, SAND LIGHTLY AND PAINT |
| C115 | REMOVE EXIST. PLAQUES, RETAIN AND REMOUNT ON NEW SIDING - COORDINATE EXACT LOCATION WITH CLIENT |



MATERIAL FINISHES LEGEND

| TYPE | DESCRIPTION |
|------|---------------------------------------------------------------------|
| 1 | FIBER CEMENT PLANK LAP SIDING, BEADED CEDARMILL - "WOODSTOCK BROWN" |
| 2 | FIBER CEMENT PLANK LAP SIDING, BEADED CEDARMILL - "SANDSTONE BEIGE" |
| 3 | FIBER CEMENT BOARD PANEL - "LIGHT MIST" |
| 4 | FIBER CEMENT BOARD PANEL - "SANDSTONE BEIGE" |
| 5 | FIBER CEMENT TRIM - "ARCTIC WHITE" |

ELEVATION LEGEND

| | |
|--|--------------------------|
| | NEW INFILL WALL ASSEMBLY |
|--|--------------------------|

CONSTRUCTION NOTES

| NOTE | DESCRIPTION |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C100 | INSTALL NEW WALL ELEMENTS (E1, E2, E4) |
| C101 | INSTALL NEW INFILL WALL ASSEMBLY (E3) |
| C102 | EXCAVATE SOIL/ASPHALT AND REMOVE EXISTING ASBESTOS BOARD (REFER TO SPECS) AND INSULATION. REPLACE WITH 50 CONCRETE FACED RIDID INSULATION ON 38 RIGID INSULATION. SEE DETAILS 4&6/A9 |
| C103 | INSTALL NEW DOOR, REFER TO DOOR SCHEDULE. |
| C104 | CUT NEW OPENING IN WALL AND INSTALL NEW WINDOW. SITE VERIFY ALL DIMENSIONS. |
| C105 | N/A |
| C106 | RE-INSTALL EXISTING HOOKS. PROVIDE BLOCKING AS REQ'D. |
| C107 | PAINT AND RE-INSTALL EXISTING DOWNSPOUT. |
| C108 | PROVIDE NEW PRECAST CONCRETE SPLASH PAD, TYP. QTY (2) |
| C110 | A/C UNIT TO REMAIN OPERATIONAL DURING CONSTRUCTION - COORDINATE WITH WALL CLADDING INSTALLATION. REFER TO MECH. |
| C111 | EXCAVATE AND REMOVE EXISTING BOLLARD C/W CONCRETE FOUNDATION. INSTALL NEW BOLLARD AS PER DETAIL. 7 / A3 TYP. QTY (10) |
| C112 | REMOVE EXIST. SIDING - REPLACE W/FIBER CEMENT BOARD SIDING ON 19 x 89 STRAPPING GABLE ENDS ONLY ON AIR BARRIER MEMBRANE. SEAL AIR BARRIER MEMBRANE TO EXIST. PVC ROOFING MATERIAL AT BOTTOM. |
| C113 | ELECTRICAL EQUIPMENT - COORDINATE WITH WALL CLADDING INSTALLATION |
| C114 | REFINISH WOOD ON WALLS AND CEILING, CLEAN, SAND LIGHTLY AND PAINT |
| C115 | REMOVE EXIST. PLAQUES, RETAIN AND REMOUNT ON NEW SIDING - COORDINATE EXACT LOCATION WITH CLIENT |

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| | drawing no. - where detailed / dessin no. - où détaillé |

project title / titre du projet: PUKASKWA NATIONAL PARK ADMINISTRATION BUILDING REPAIR AND UPGRADES PHASE 2
 Ontario

drawing title / titre du dessin: BUILDING ELEVATIONS

drawn by / dessiné par: MAH

designed by / conçu par: ML

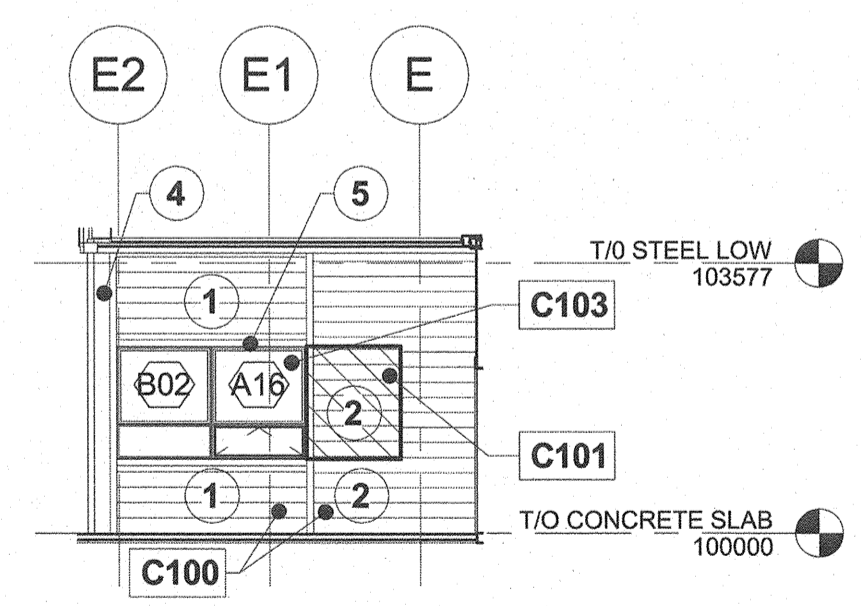
approved by / approuvé par: TJA

tender submission / soumission de projet: TENDER

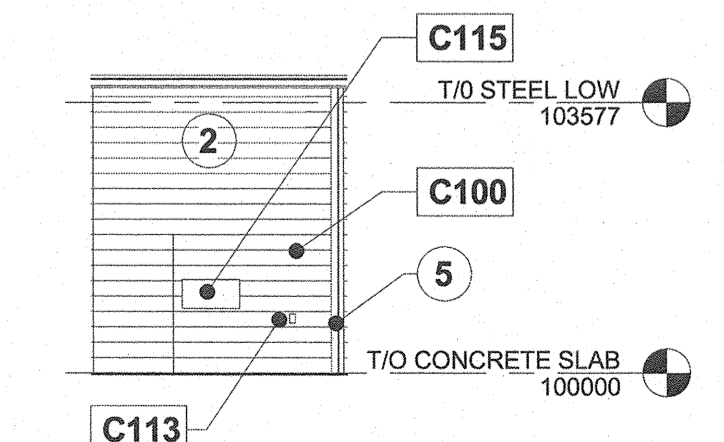
project date / date du projet: 2017/01/27

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drawing no. / dessin no.: A7



5 SW ENTRY ELEVATION 1:100



6 SE ENTRY ELEVATION 1:100



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project title
 titre du projet

Ontario
 PUKASKWA NATIONAL PARK
 ADMINISTRATION BUILDING
 REPAIR AND UPGRADES PHASE 2

drawing title
 titre du dessin
 WALL SECTIONS

drawn by
 dessiné par JDJ

designed by
 conçu par ML

approved by
 approuvé par TJA

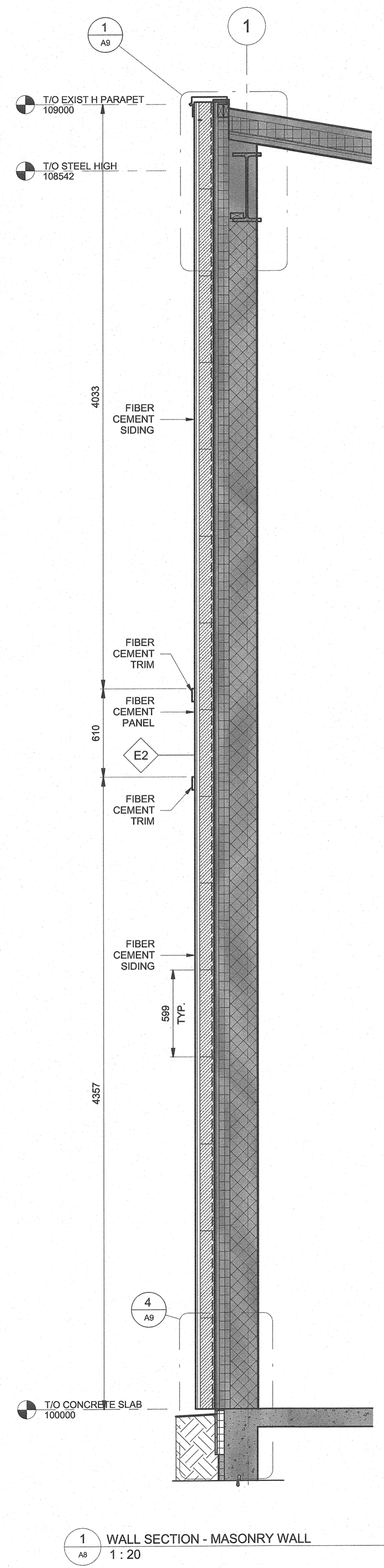
tender submission
 soumission TENDER

project manager
 administrateur de projets

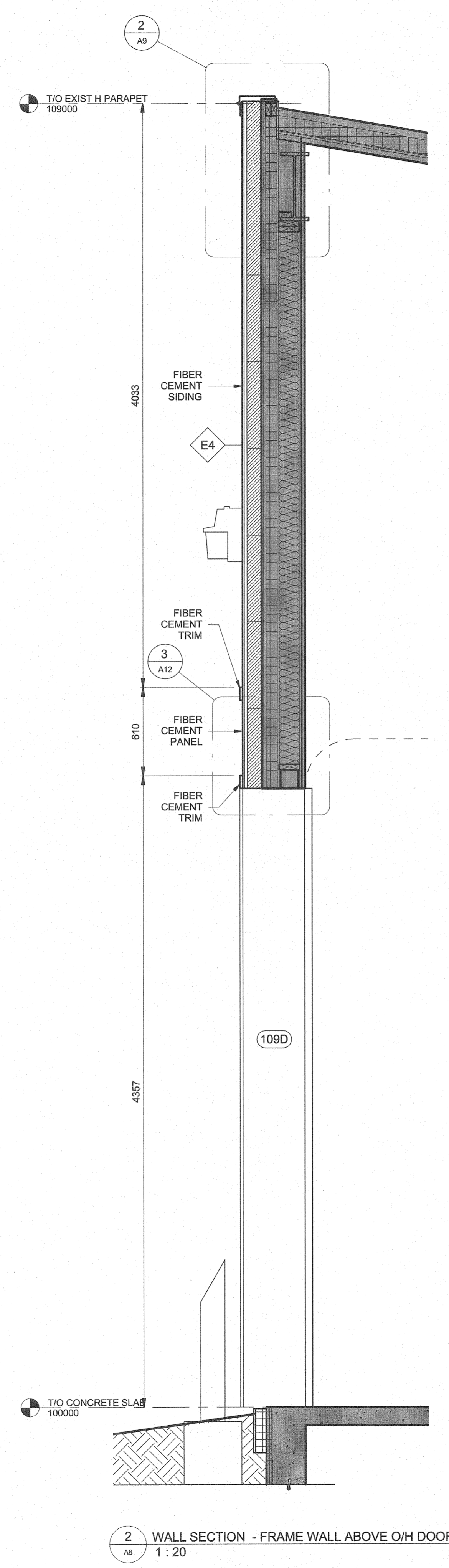
project date
 date du projet 2017/01/27

project no.
 no. du projet 151-06165-06

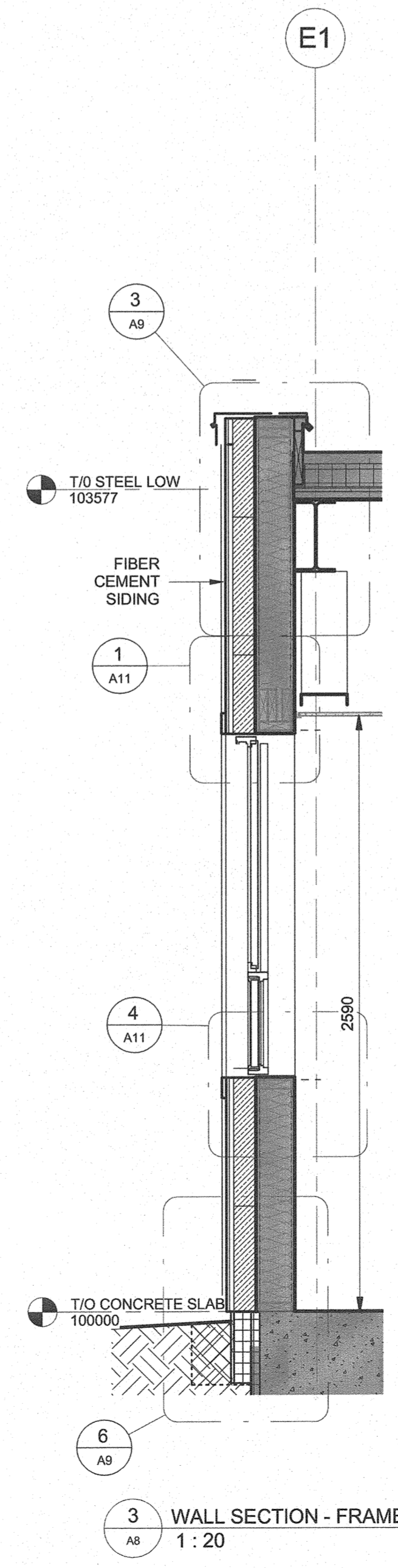
drawing no.
 dessiné no. A8



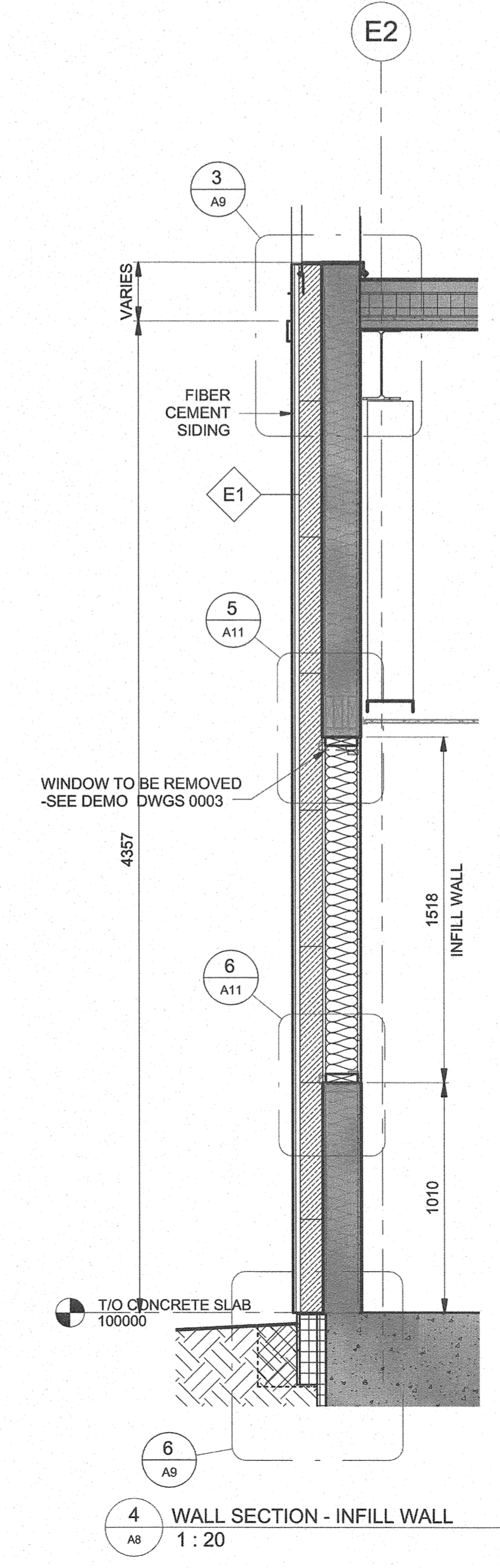
1 WALL SECTION - MASONRY WALL
 1:20



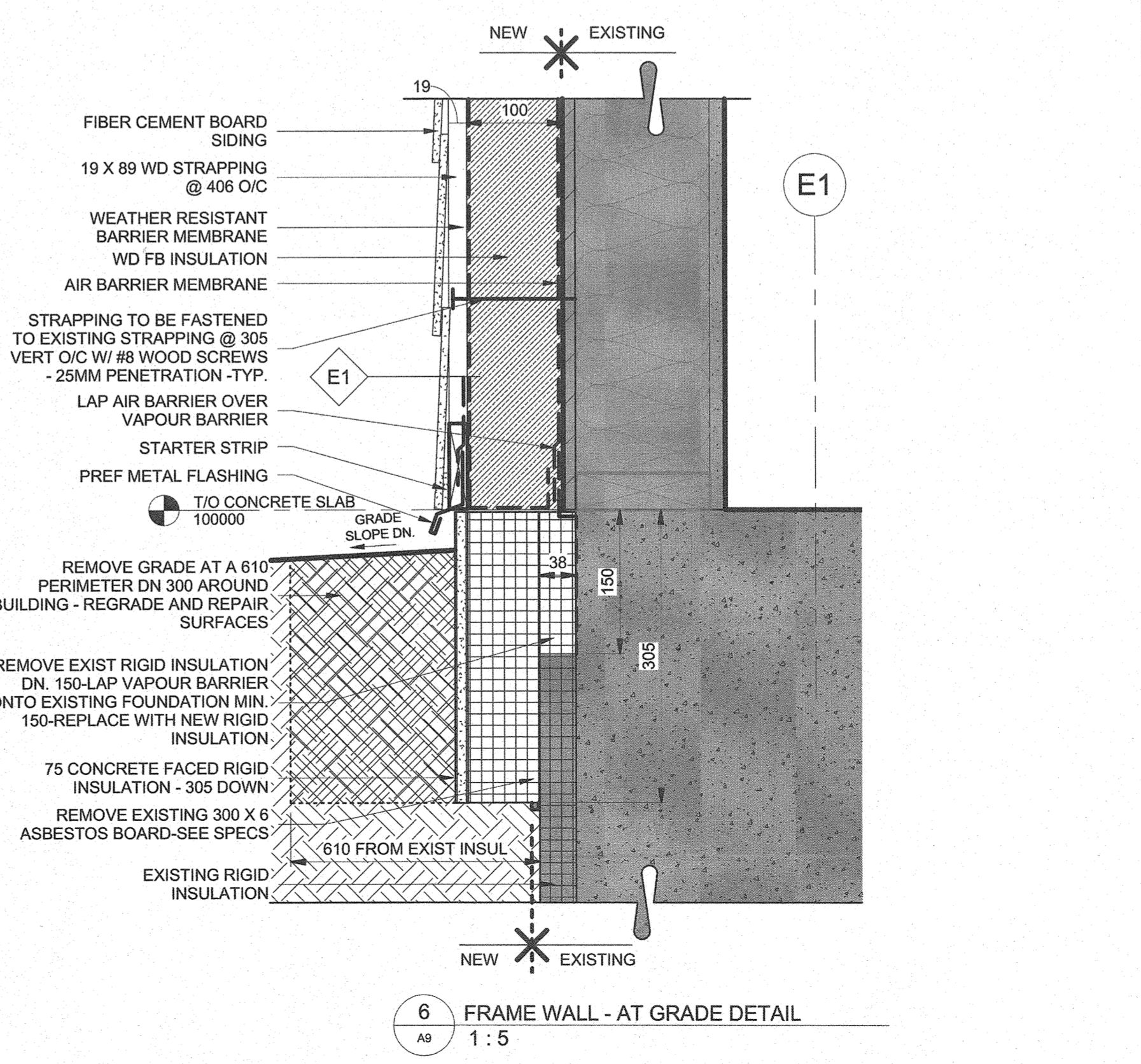
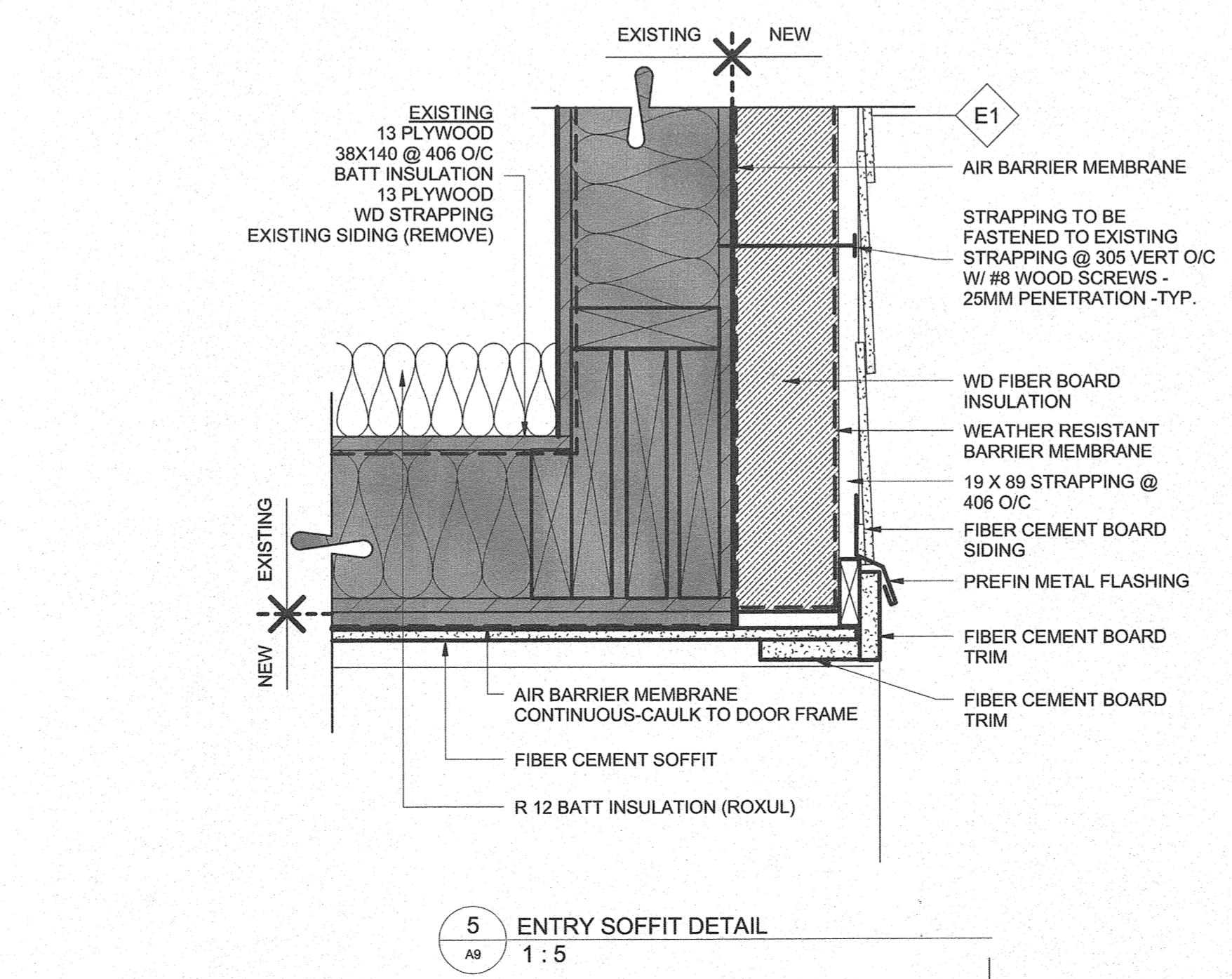
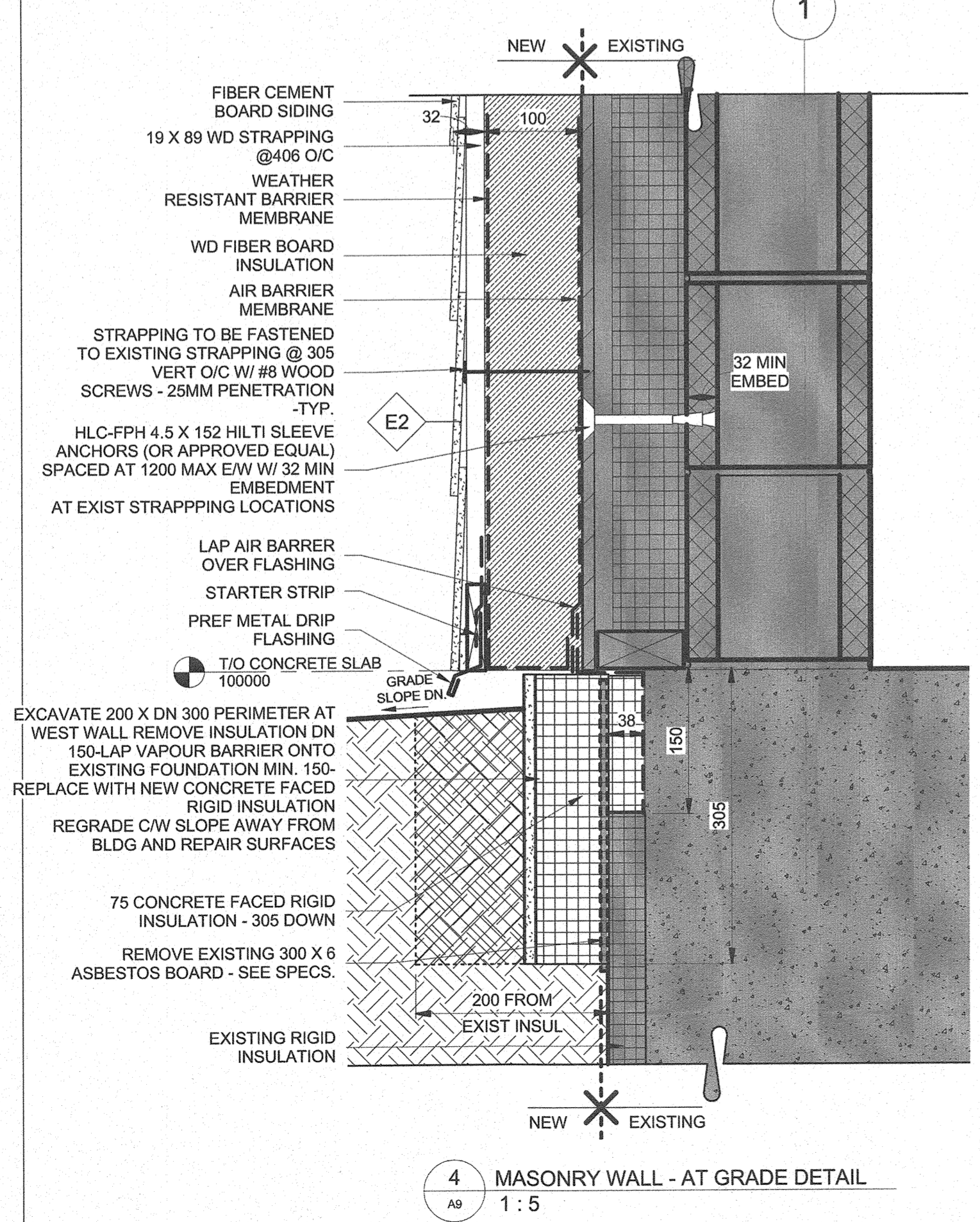
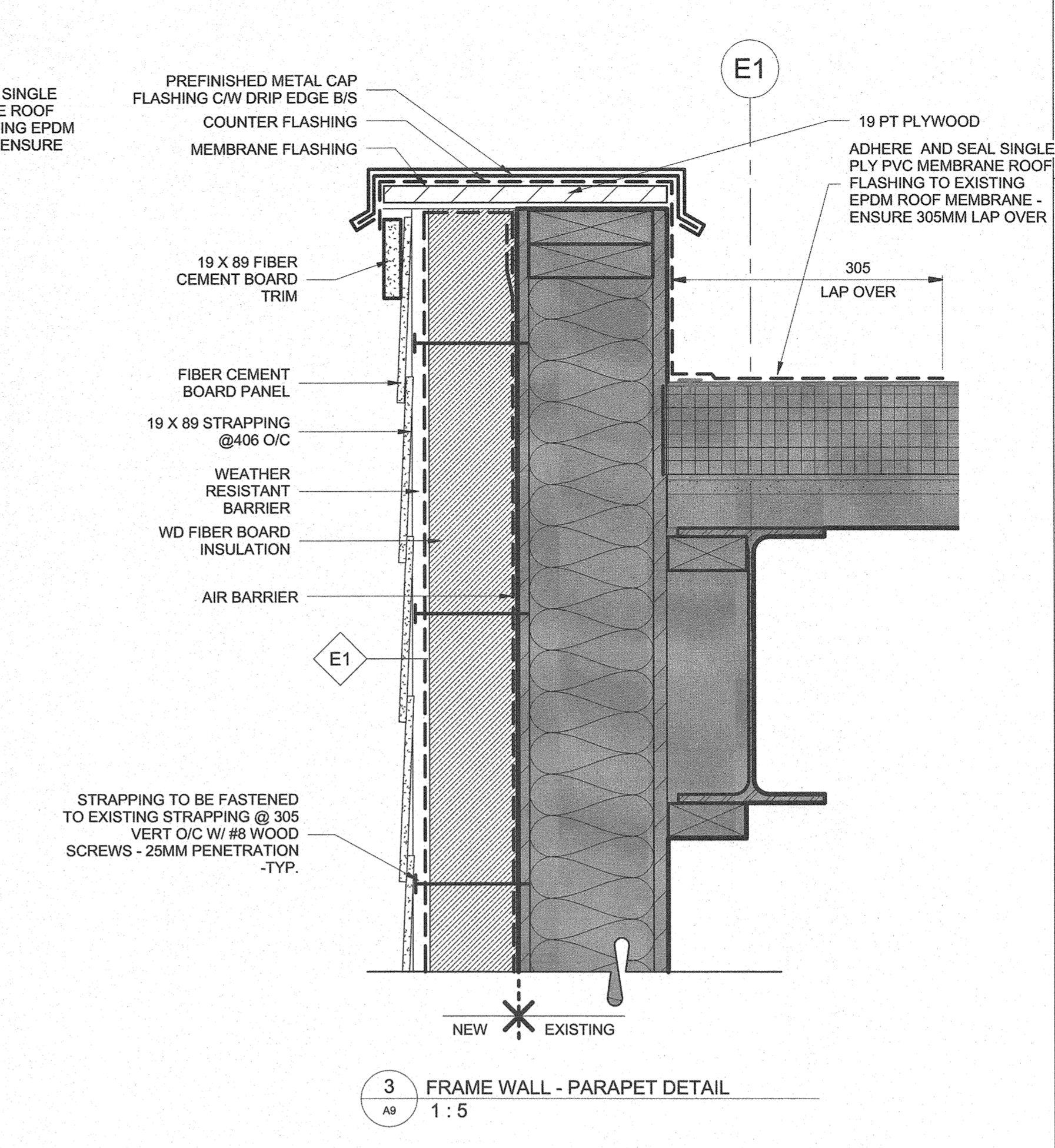
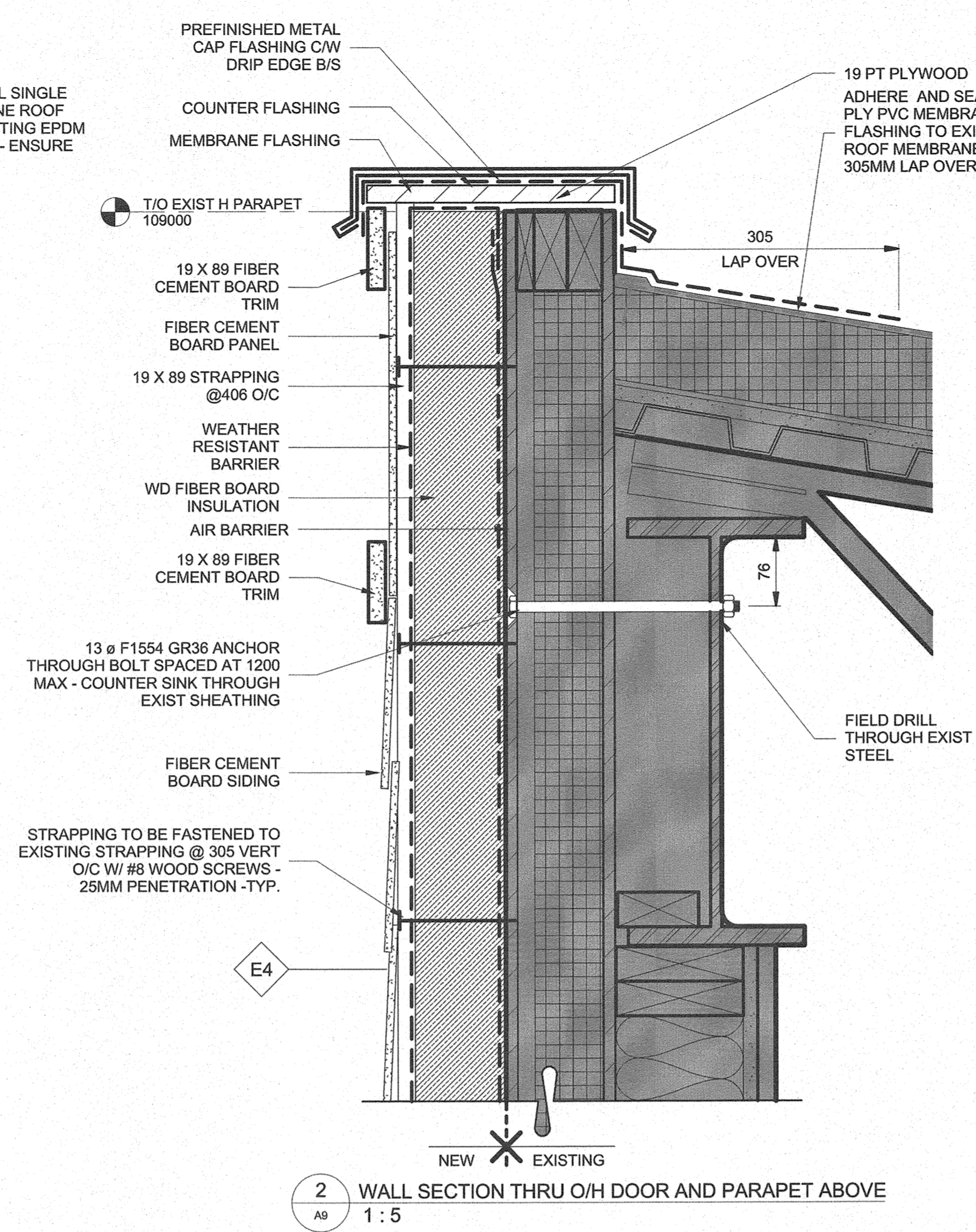
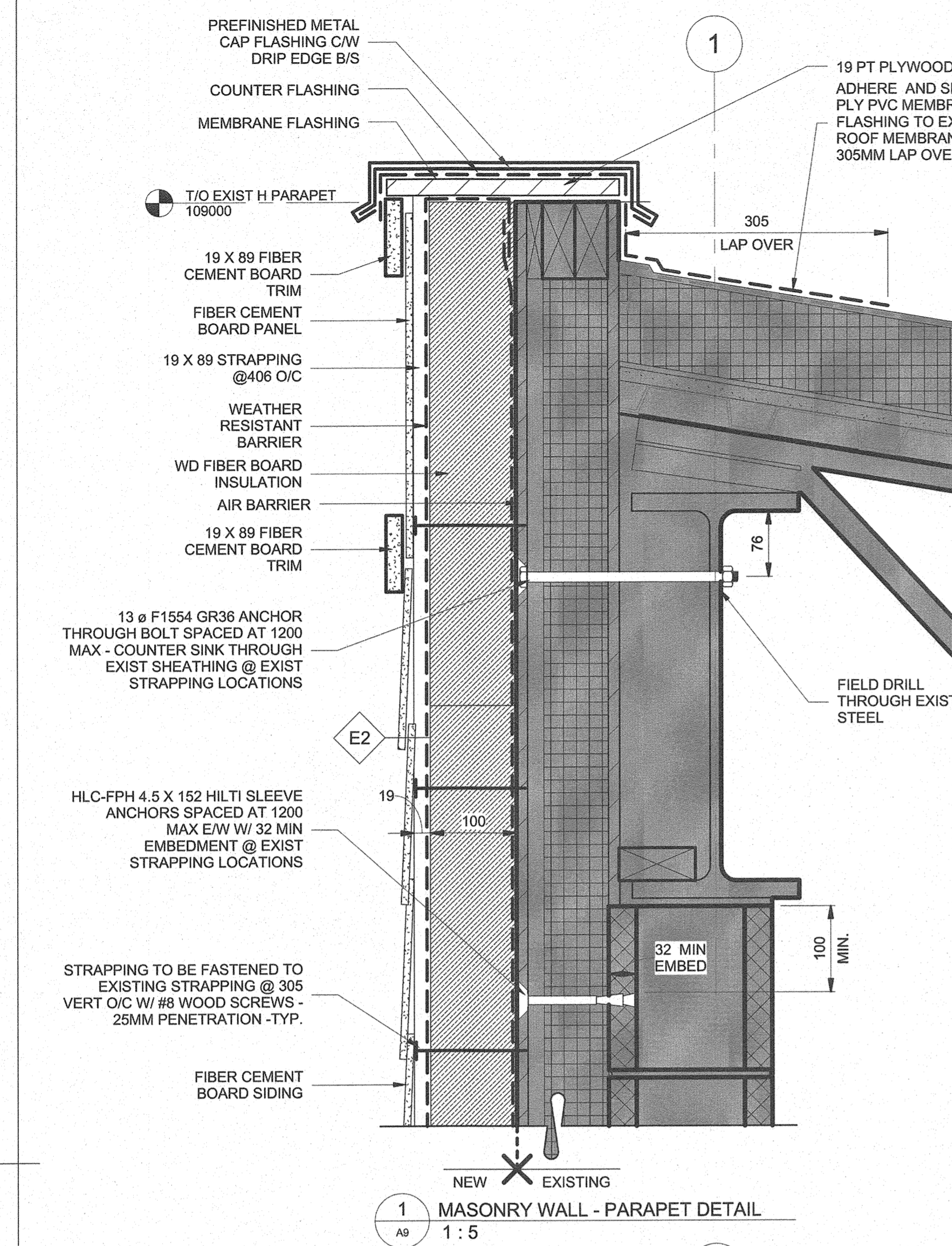
2 WALL SECTION - FRAME WALL ABOVE O/H DOOR
 1:20



3 WALL SECTION - FRAME WALL
 1:20



4 WALL SECTION - INFILL WALL
 1:20

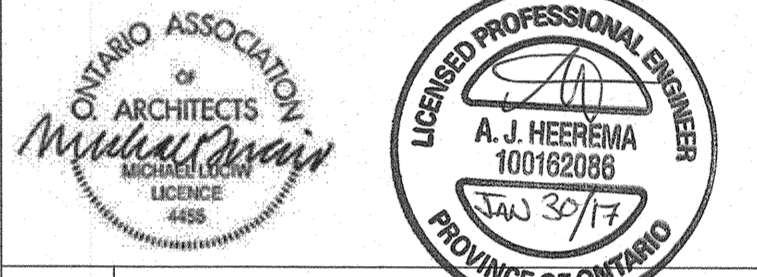


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project title titre du projet

Ontario
 PUKASKWA NATIONAL PARK ADMINISTRATION BUILDING REPAIR AND UPGRADES PHASE 2

drawing title titre du dessin
 SECTION DETAILS

drawn by dessiné par JDU

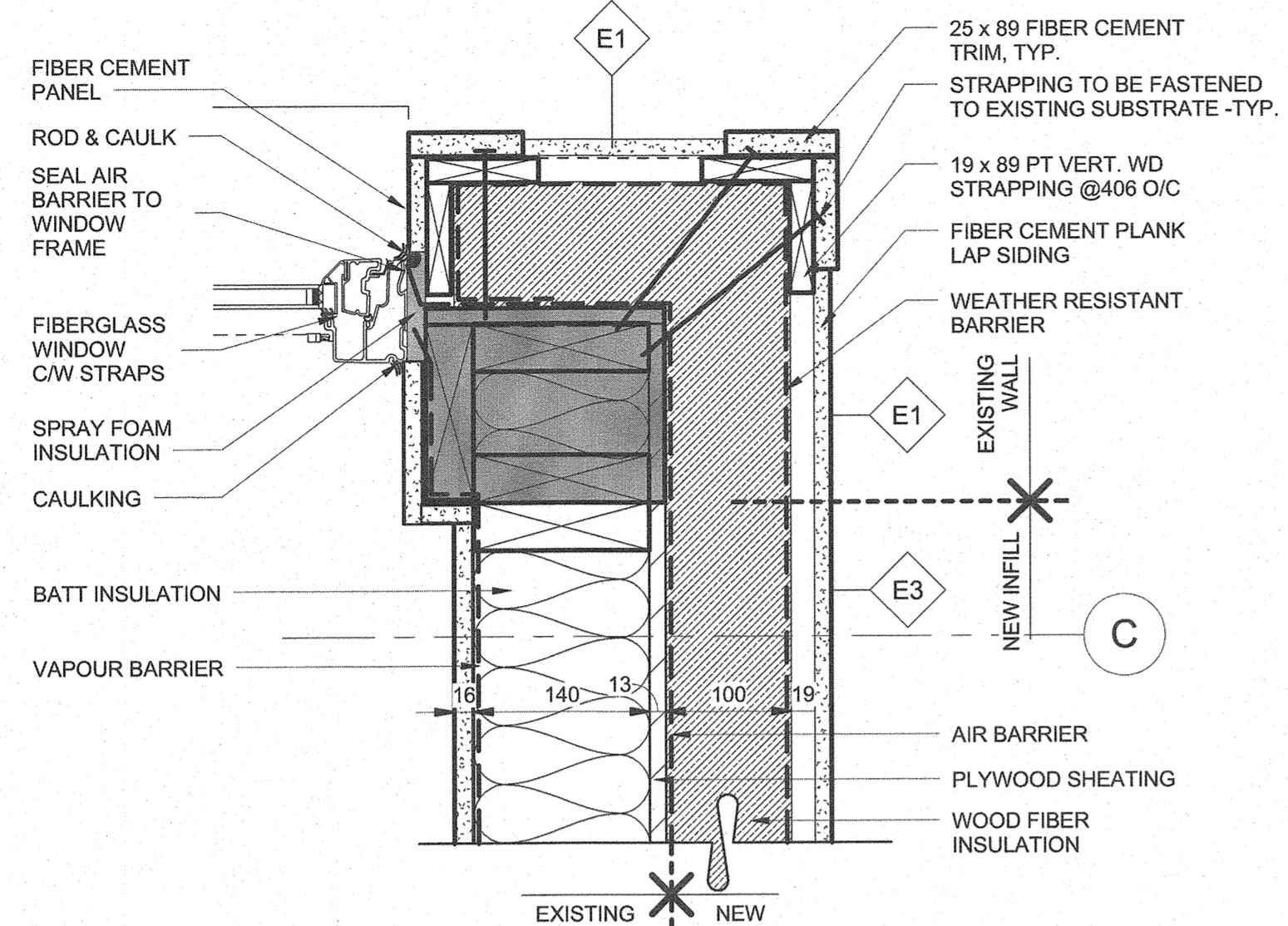
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approved by approuvé par TSA

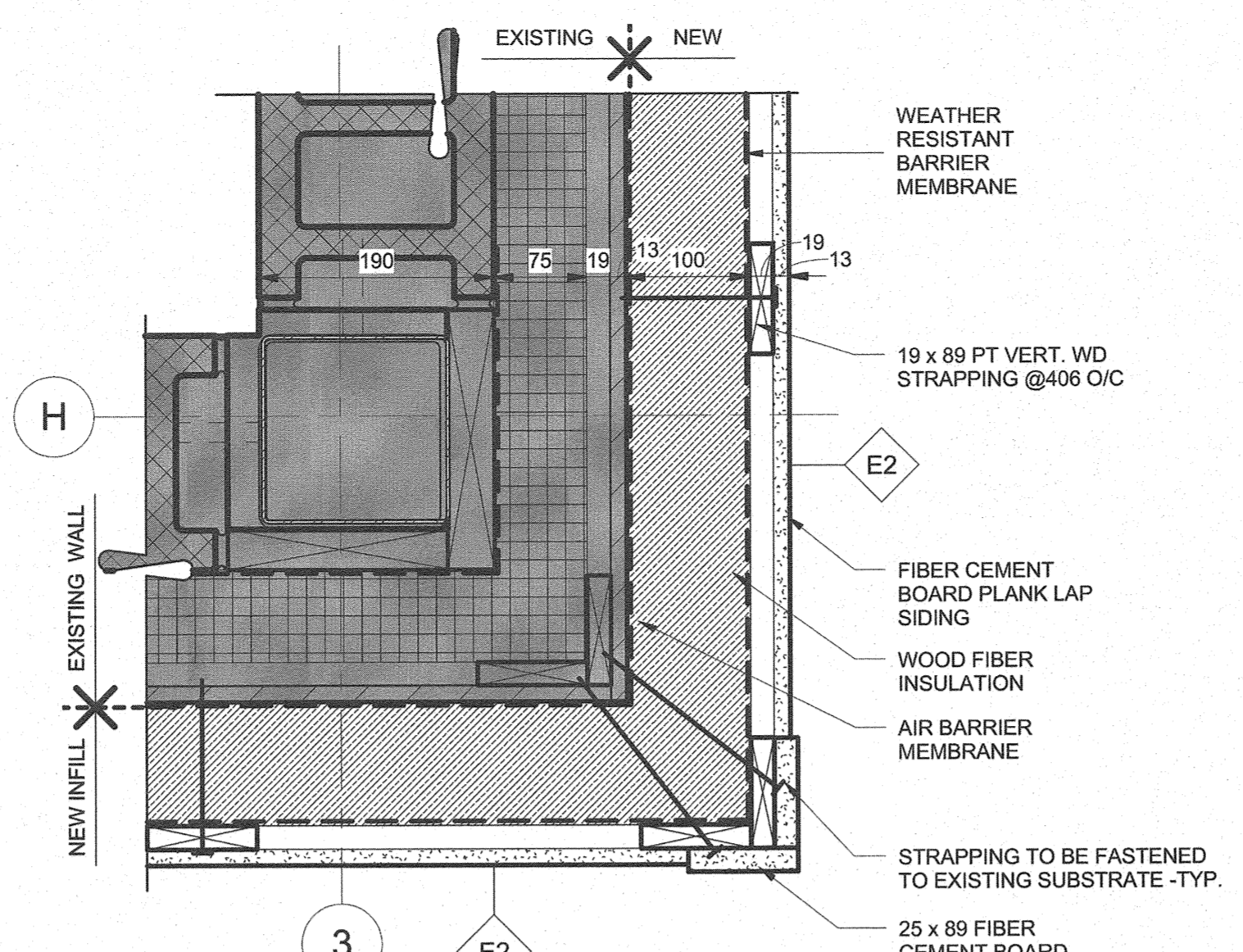
tender submission TENDER project manager administrateur de projets

project date date du projet 2017/01/27

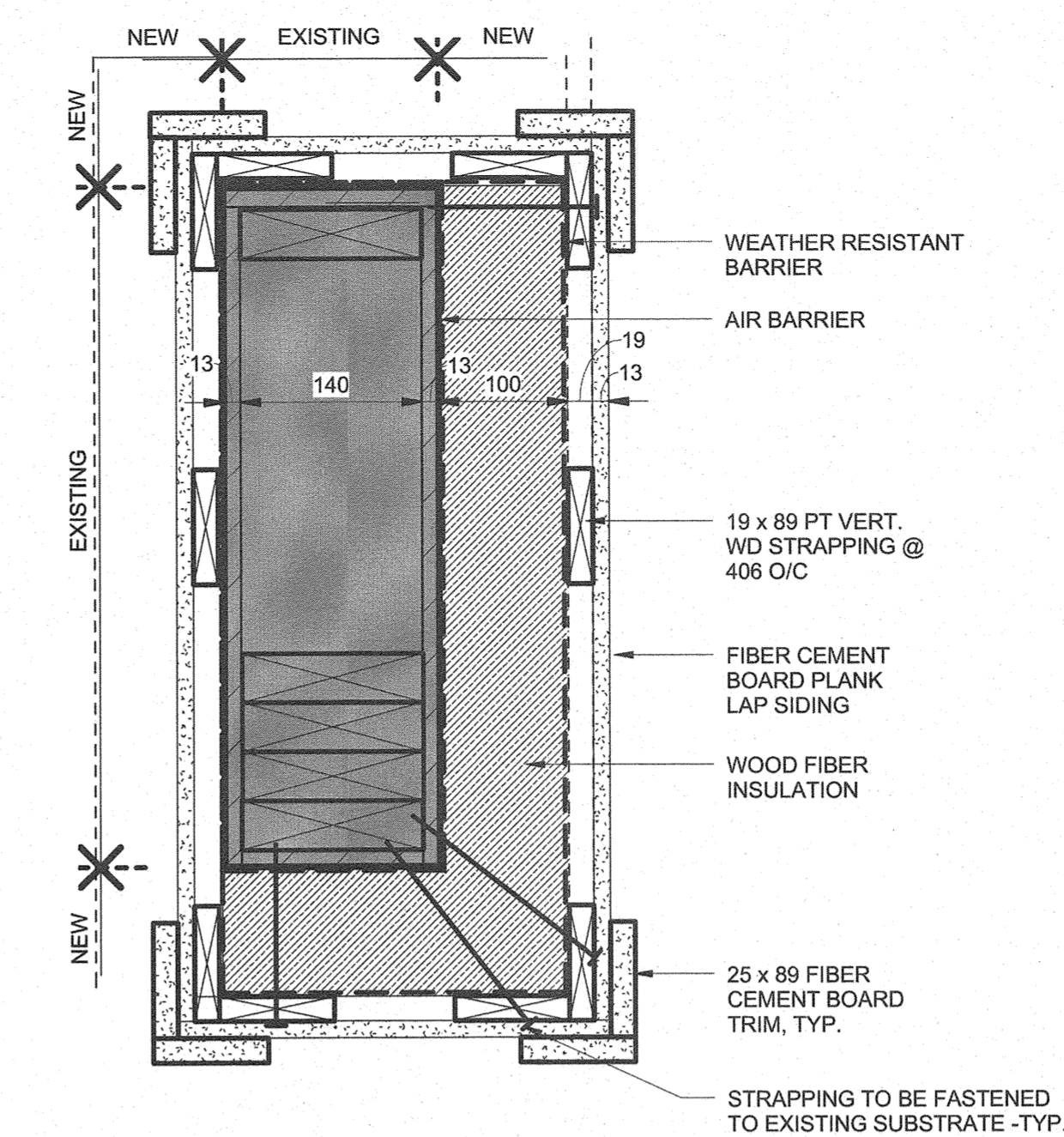
project no. no. du projet 151-06165-06
 drawing no. dessin no. A9



1 OUTSIDE CORNER - FRAME WALL
A10 1:5



2 OUTSIDE CORNER - MASONRY WALL
A10 1:5



3 COLUMN DETAIL
A10 1:5



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project title
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Ontario
PUKASKWA NATIONAL PARK
ADMINISTRATION BUILDING
REPAIR AND UPGRADES PHASE 2

drawing title
titre du dessin
PLAN DETAILS

drawn by
dessiné par JDJ

designed by
conçu par ML

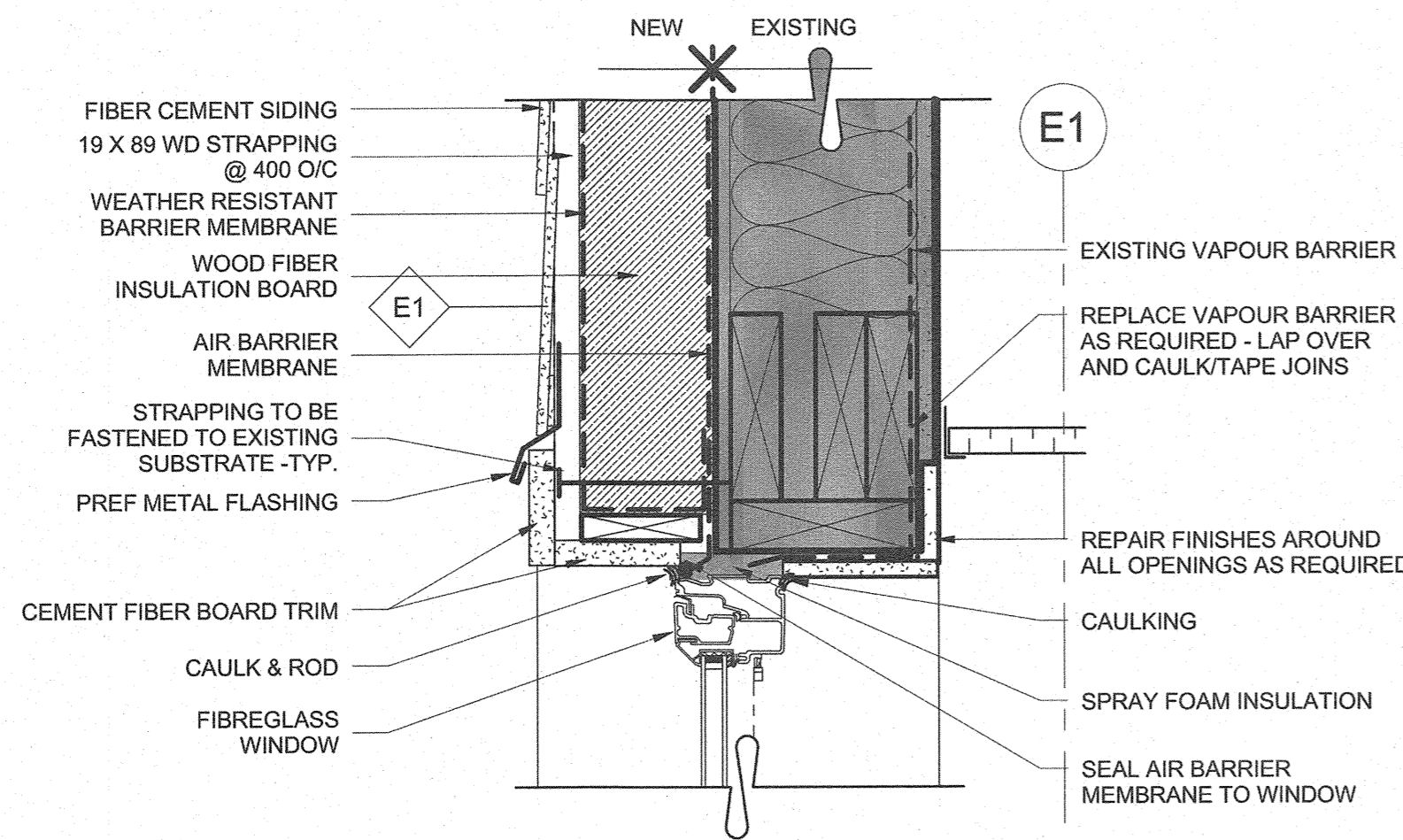
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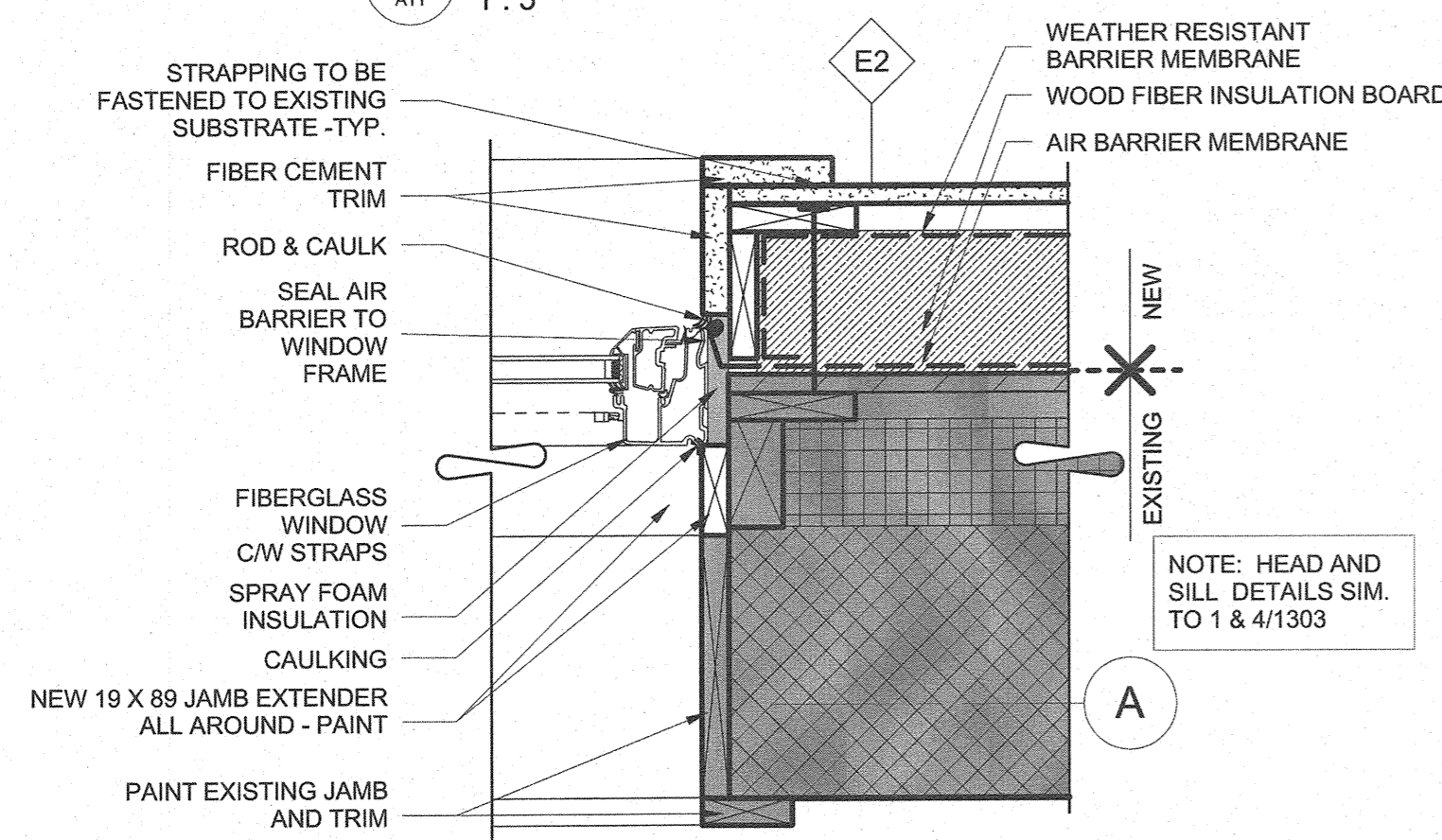
project date
date du projet 2017/01/27

project no.
no. du projet 151-06165-06

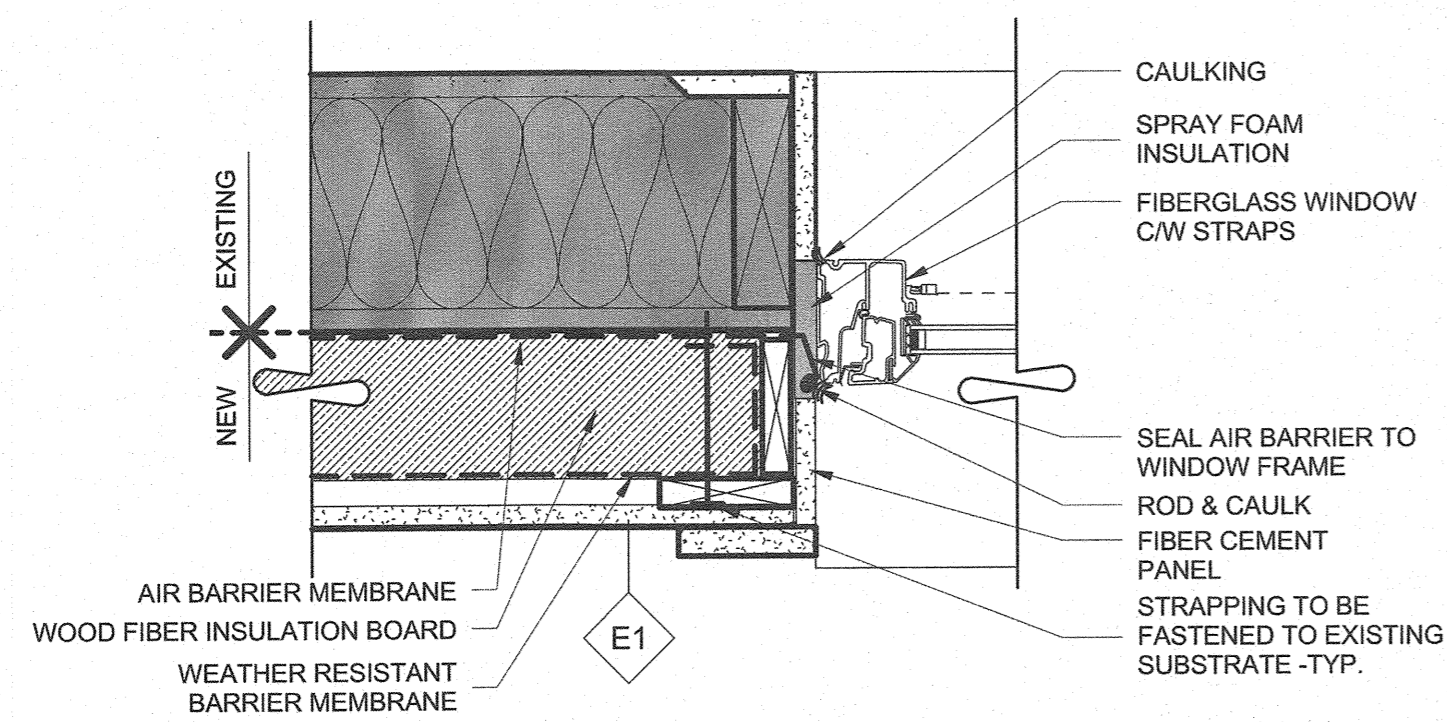
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dessiné no. A10



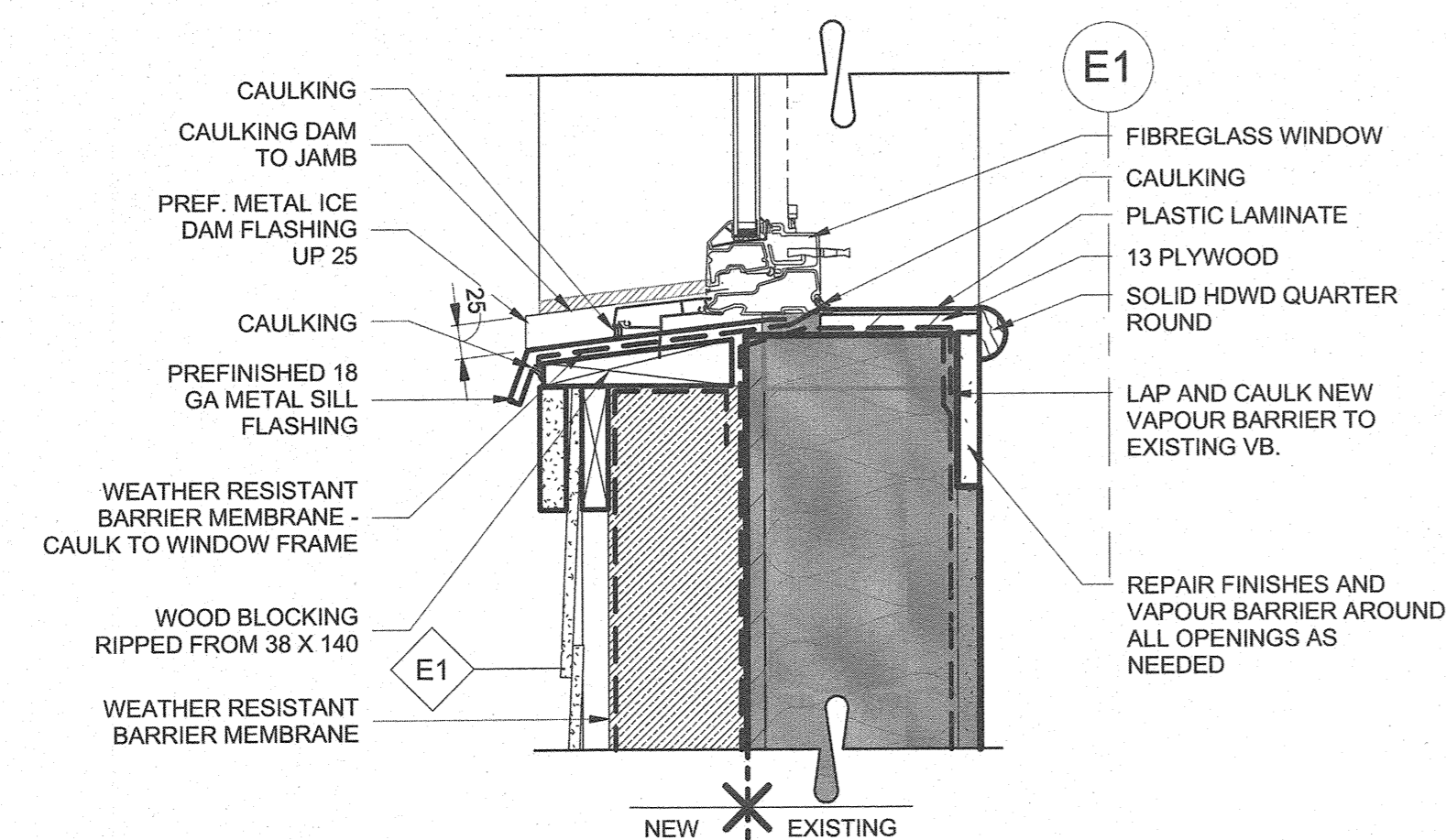
1 FRAME WALL - Window Head Detail
A11 1:5



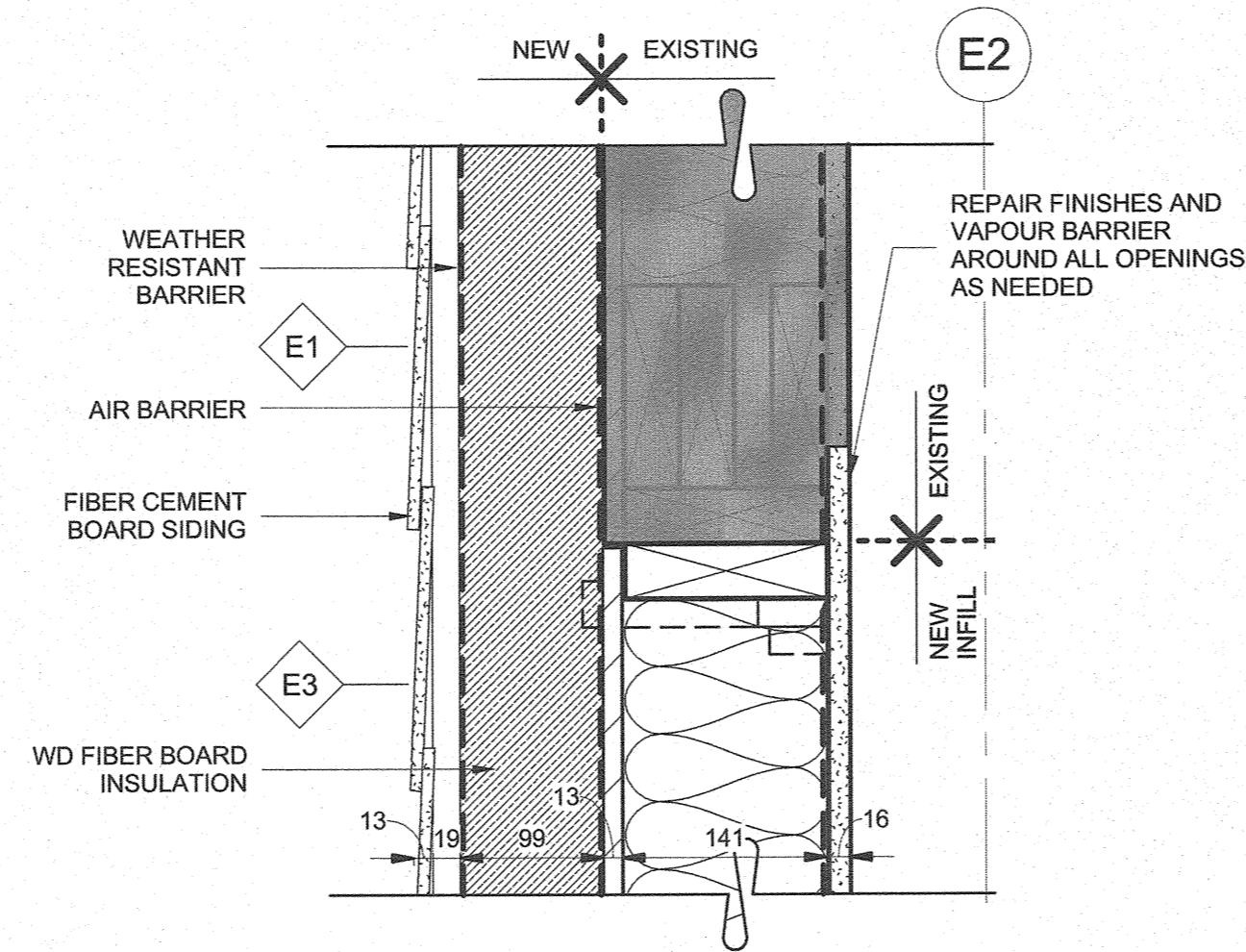
2 WINDOW JAMB DETAIL @ MASONRY
A11 1:5



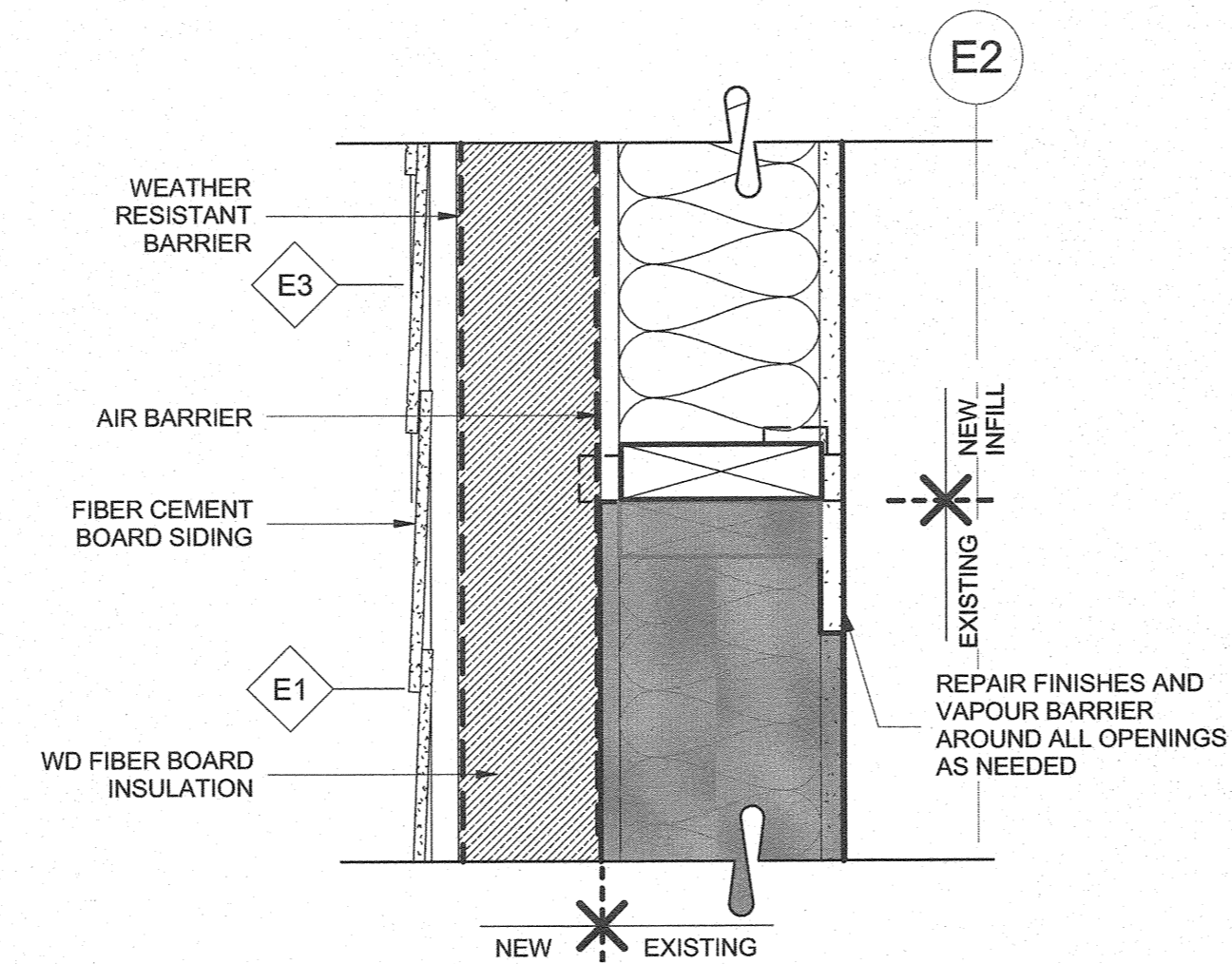
3 WINDOW JAMB DETAIL
A11 1:5



4 FRAME WALL - Window Sill Detail
A11 1:5



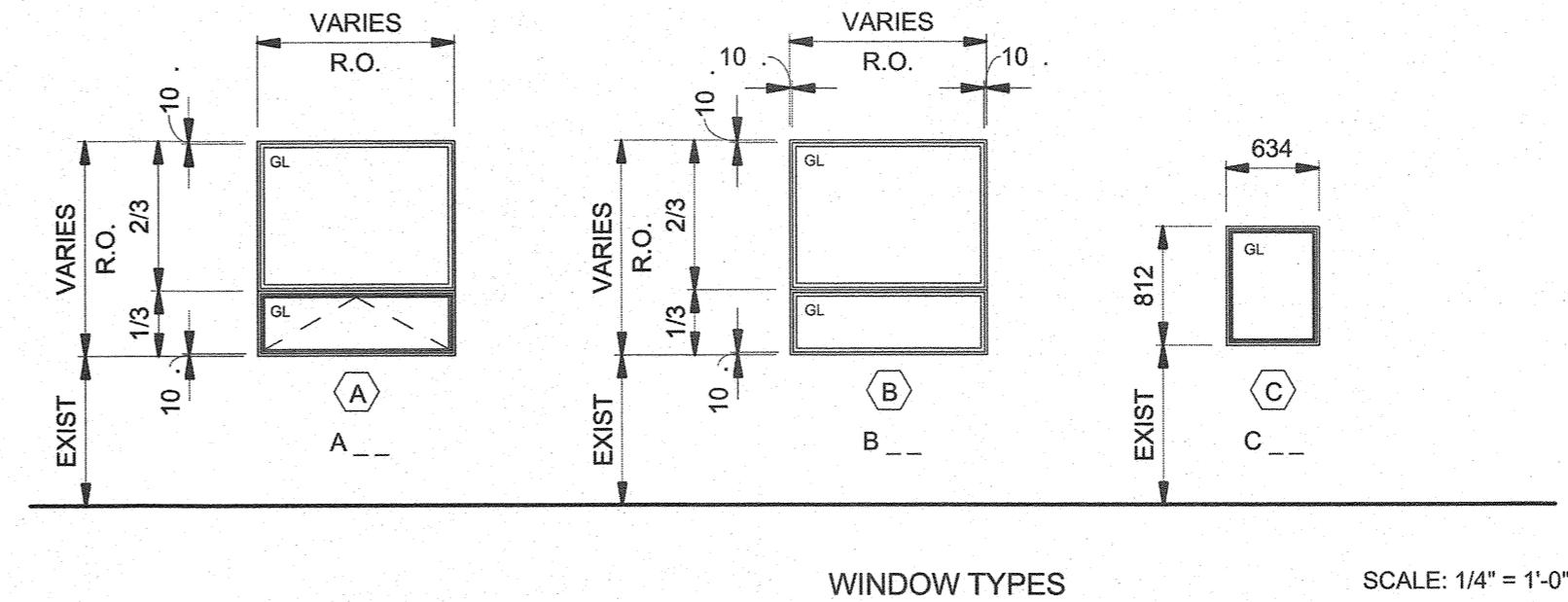
5 INFILL WALL - Infill Head
A11 1:5



6 INFILL WALL - Infill Sill
A11 1:5

WINDOW SCHEDULE

| NUMBER | R.O. SIZE (MM) | CONSTRUCTION NOTES |
|--------|-----------------|-----------------------------------------------------------------------------------------|
| A01 | 1372 W X 1494 H | INSTALL WINDOW INTO NEW FRAMING ONE SIDE. SITE VERIFY ALL DIMENSIONS. |
| A02 | 1372 W X 1494 H | INSTALL WINDOW INTO NEW FRAMING ONE SIDE. SITE VERIFY ALL DIMENSIONS. |
| A03 | 1800 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| A04 | 800 W X 1494 H | INSTALL WINDOW INTO NEW FRAMING BOTH SIDES. SITE VERIFY ALL DIMENSIONS. |
| A05 | 1372 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING, NEW FRAMING BELOW. SITE VERIFY ALL DIMENSIONS. |
| A06 | 1800 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| A07 | 1800 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| A08 | 1372 W X 1494 H | INSTALL WINDOW INTO NEW FRAMING BOTH SIDES. SITE VERIFY ALL DIMENSIONS. |
| A09 | 1372 W X 1494 H | INSTALL WINDOW INTO NEW FRAMING BOTH SIDES. SITE VERIFY ALL DIMENSIONS. |
| A10 | 1372 W X 1494 H | INSTALL WINDOW INTO NEW FRAMING BOTH SIDES. SITE VERIFY ALL DIMENSIONS. |
| A11 | 1372 W X 1494 H | INSTALL WINDOW INTO NEW FRAMING BOTH SIDES. SITE VERIFY ALL DIMENSIONS. |
| A12 | 1372 W X 1494 H | INSTALL WINDOW INTO NEW FRAMING BOTH SIDES. SITE VERIFY ALL DIMENSIONS. |
| A13 | 1372 W X 1494 H | INSTALL WINDOW INTO NEW FRAMING BOTH SIDES. SITE VERIFY ALL DIMENSIONS. |
| A14 | 1372 W X 1494 H | INSTALL WINDOW INTO NEW FRAMING BOTH SIDES. SITE VERIFY ALL DIMENSIONS. |
| A15 | 1206 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING, NEW FRAMING ABOVE. SITE VERIFY ALL DIMENSIONS. |
| A16 | 1267 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING, NEW FRAMING ONE SIDE. SITE VERIFY ALL DIMENSIONS. |
| A17 | 1638 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| A18 | 1638 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| A19 | 1233 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| A20 | 1220 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| A21 | 800 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| A22 | 705 W X 800 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| B01 | 1372 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING, NEW FRAMING BELOW. SITE VERIFY ALL DIMENSIONS. |
| B02 | 1267 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| B03 | 1233 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| B04 | 1233 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| B05 | 1220 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| B09 | 1220 W X 1494 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| C01 | 660 W X 838 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |
| CO2 | 705 W X 800 H | INSTALL WINDOW INTO EXISTING OPENING. SITE VERIFY ALL DIMENSIONS. |



ALTERNATIVE NO. 2
GLAZING ALTERNATE: HIGH UV SPECTRUM COATING "ORNILUX BIRD PROTECTION GLASS" - SEE SPECIFICATIONS

ALTERNATIVE NO. 3
GLAZING ALTERNATE: CERAMIC FRIT "BIRD FRIENDLY GLASS" - SEE SPECIFICATIONS



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| | dessin no. - où détaillé |

project title
titre du projet
Pukaskwa National Park Administration Building Repair and Upgrades Phase 2
Ontario

drawing title
titre du dessin
WINDOW SCHEDULE & DETAILS

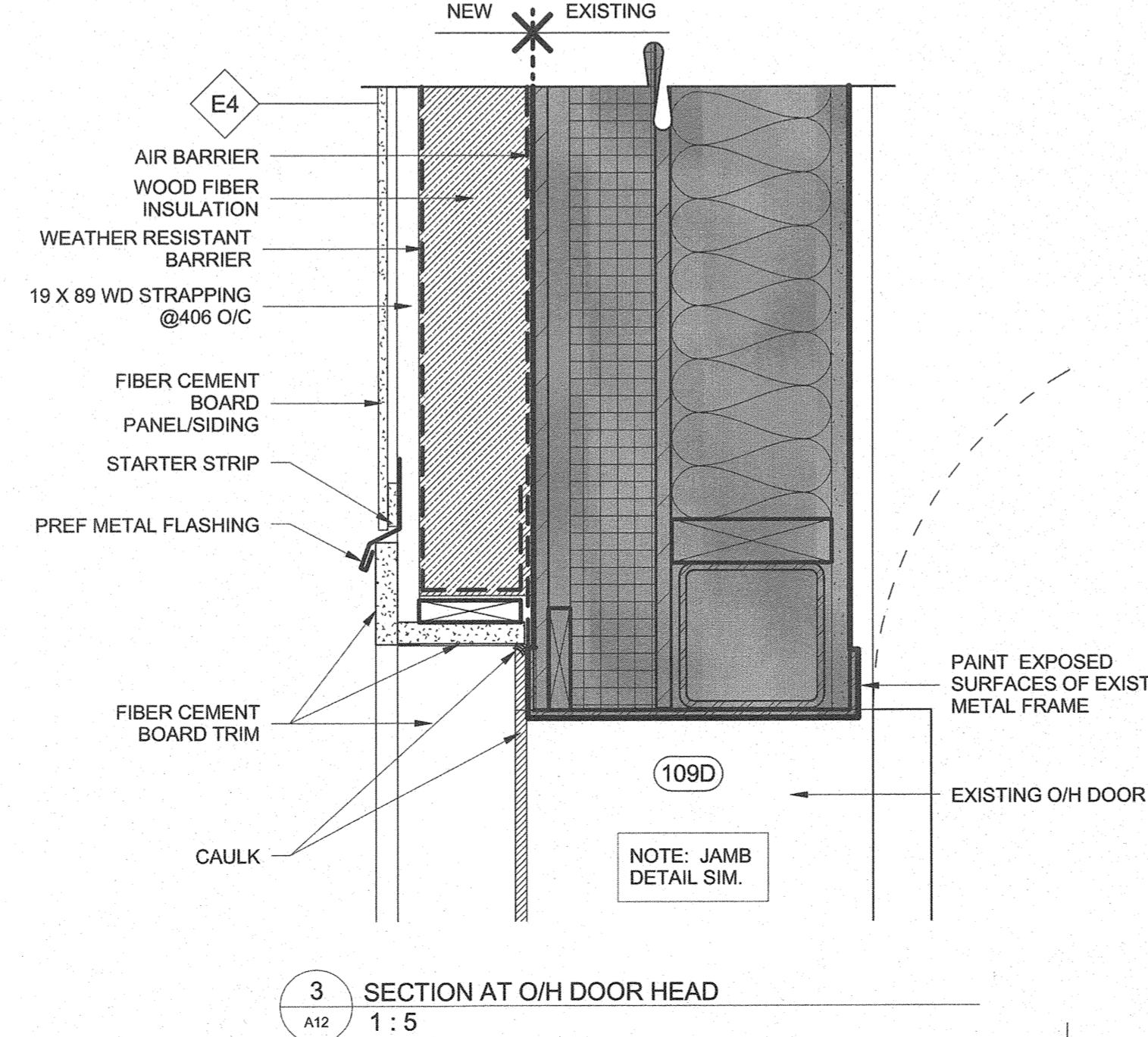
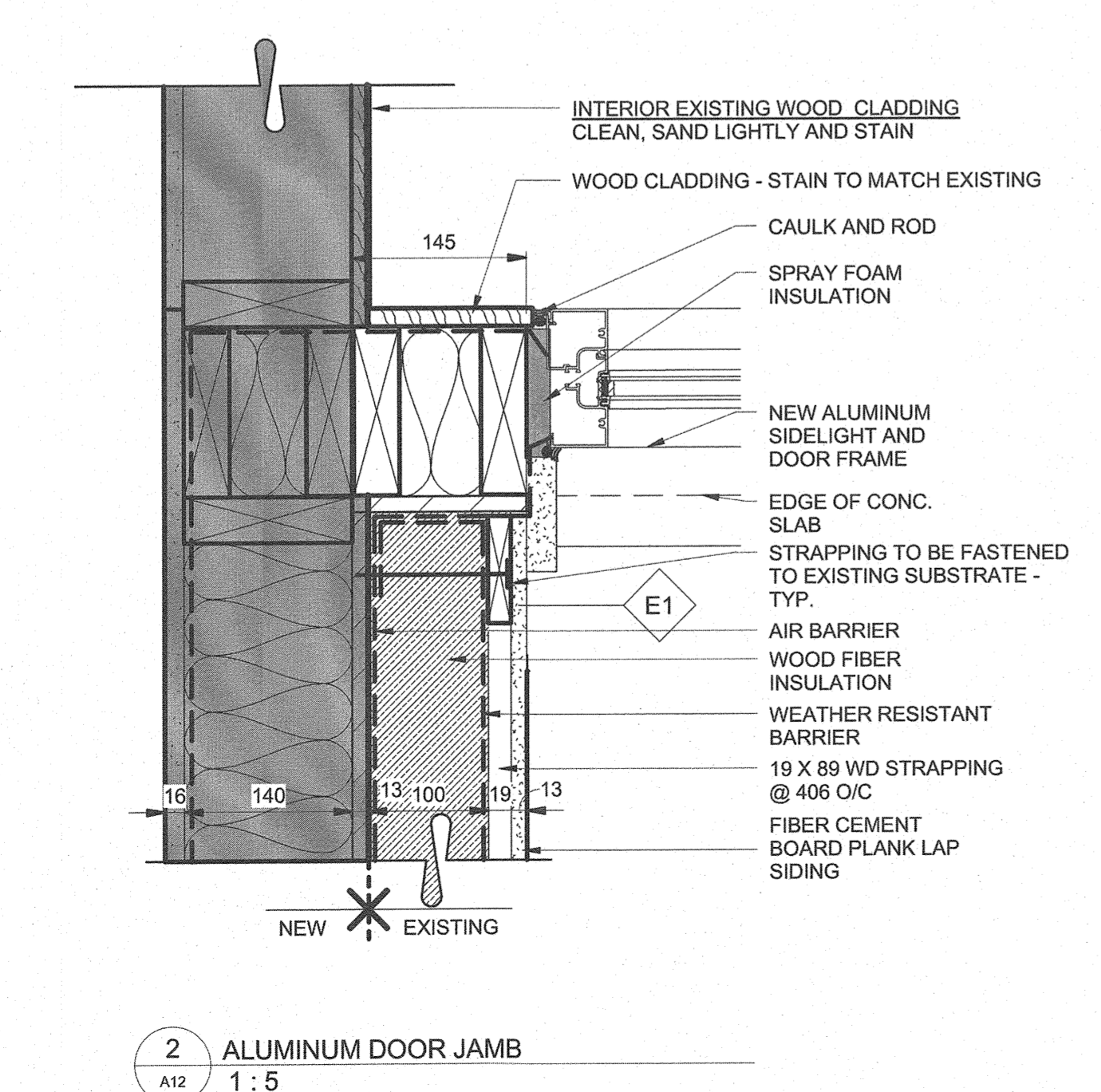
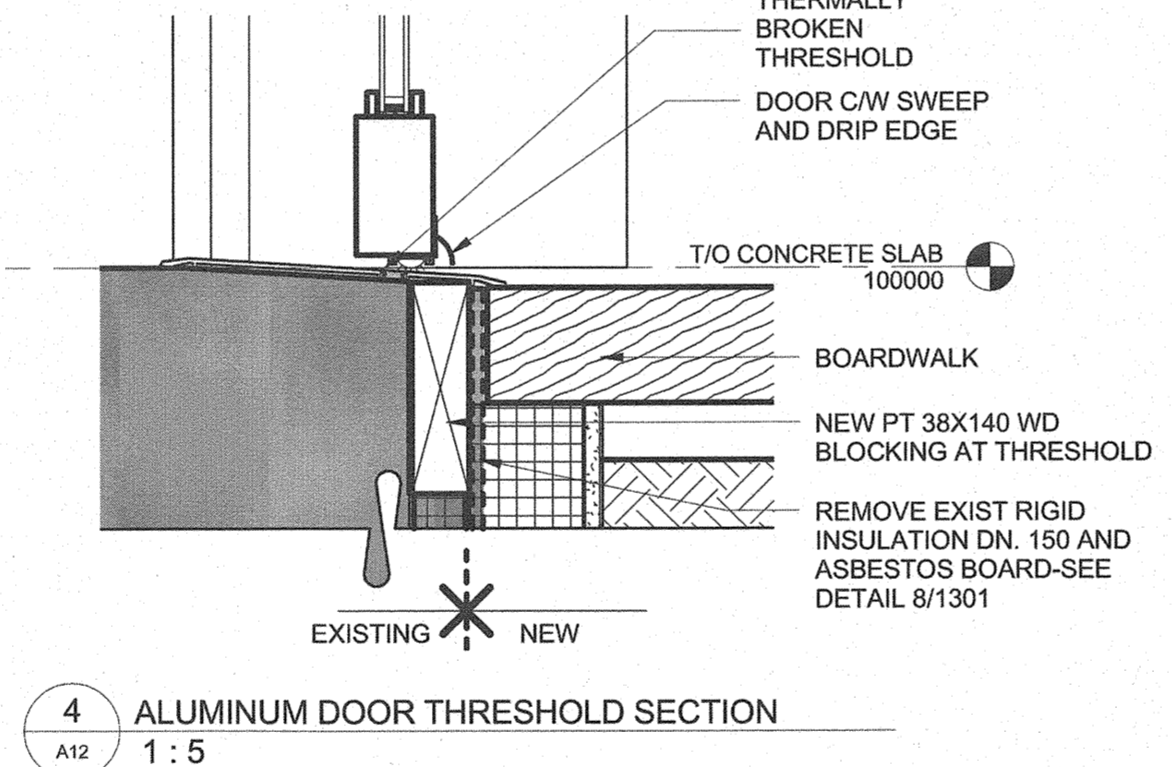
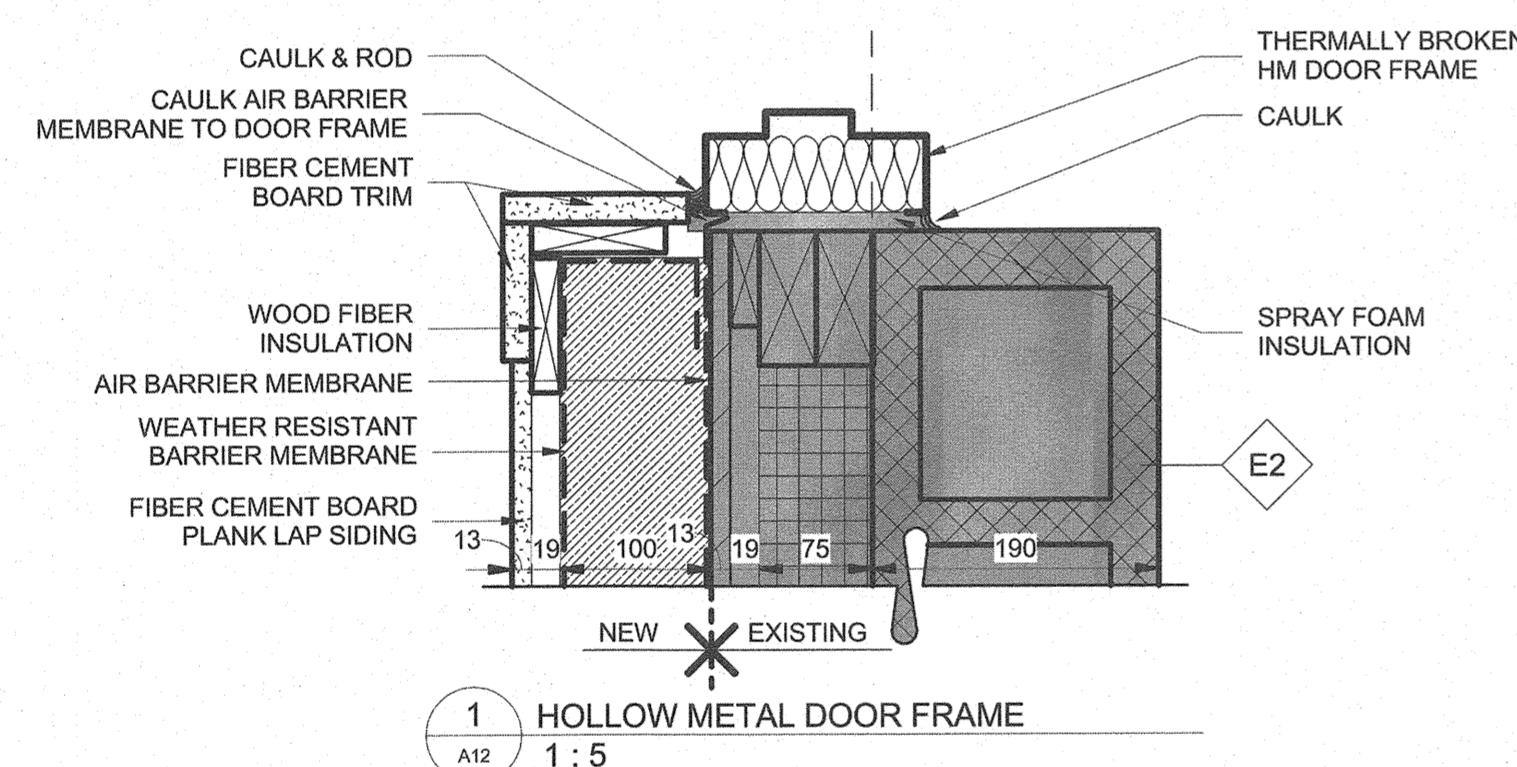
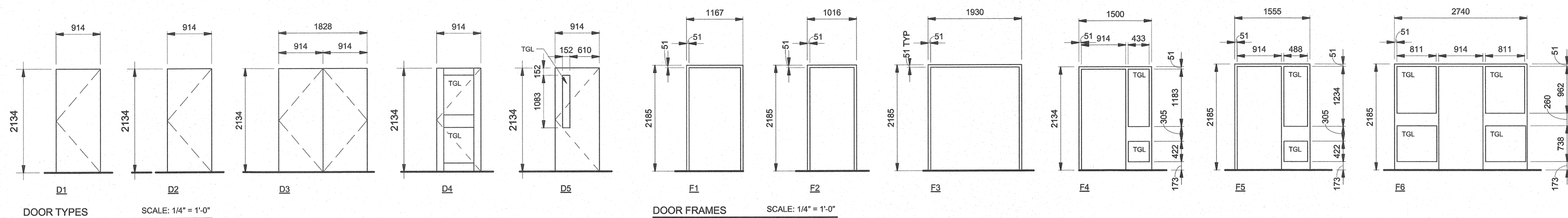
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|-----------------------------|--------|----------------------------------------------|
| drawn by dessiné par | JDJ | project manager administrateur de projets |
| designed by conçu par | M.L. | |
| approved by approuvé par | TJA | |
| tender submission | TENDER | |

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date du projet
2017/01/27
project no.
no. du projet
151-06165-06
drawing no.
dessiné no.
A11

DOOR SCHEDULE

| DOOR NO. | DOOR | | | | FRAME | | | CONSTRUCTION NOTES | NOTES |
|----------|-----------------|------|----------|--------|-------|----------|--------|--------------------------------------------------------------------------------|-------|
| | DOOR SIZE | TYPE | MATERIAL | FINISH | TYPE | MATERIAL | FINISH | | |
| 101A | 914 W x 2134 H | D2 | HM INSUL | PTD | F2 | TBHM | PTD | INSTALL DOOR AND FRAME INTO EXISTING OPENING. | 1 |
| 101C | 5486 W x 4878 H | N/A | N/A | N/A | N/A | N/A | N/A | OVERHEAD DOOR TO REMAIN AS IS; PROVIDE NEW GASKETS, SEALS AND WEATHERSTRIPPING | |
| 104A | 914 W x 2134 H | D2 | HM INSUL | PTD | F2 | TBHM | PTD | INSTALL DOOR AND FRAME INTO EXISTING OPENING. | 1 |
| 104C | 3658 W x 4268 H | N/A | N/A | N/A | N/A | N/A | N/A | OVERHEAD DOOR TO REMAIN AS IS; PROVIDE NEW GASKETS, SEALS AND WEATHERSTRIPPING | |
| 105AB | 1828 W x 2134 H | D3 | HM INSUL | PTD | F3 | TBHM | PTD | INSTALL DOORS AND FRAME INTO EXISTING OPENING. | 1 |
| 107A | 914 W x 2134 H | D5 | HM INSUL | PTD | F2 | TBHM | PTD | INSTALL DOOR AND FRAME INTO EXISTING OPENING. | 1 |
| 109A | 914 W x 2134 H | D2 | HM INSUL | PTD | F2 | TBHM | PTD | INSTALL DOOR AND FRAME INTO EXISTING OPENING. | 1 |
| 109D | 3658 W x 4268 H | N/A | N/A | N/A | N/A | N/A | N/A | OVERHEAD DOOR TO REMAIN AS IS; PROVIDE NEW GASKETS, SEALS AND WEATHERSTRIPPING | |
| 112A | 914 W x 2134 H | D2 | HM INSUL | PTD | F2 | TBHM | PTD | INSTALL DOOR AND FRAME INTO EXISTING OPENING. | 1 |
| 112C | 2438 W x 4268 H | N/A | N/A | N/A | N/A | N/A | N/A | OVERHEAD DOOR TO REMAIN AS IS; PROVIDE NEW GASKETS, SEALS AND WEATHERSTRIPPING | |
| 112D | 3658 W x 4268 H | N/A | N/A | N/A | N/A | N/A | N/A | OVERHEAD DOOR TO REMAIN AS IS; PROVIDE NEW GASKETS, SEALS AND WEATHERSTRIPPING | |
| 115A | 914 W x 2134 H | D1 | HM INSUL | PTD | F4 | TBHM | PTD | INSTALL DOOR AND FRAME INTO EXISTING OPENING. | |
| 117A | 914 W x 2134 H | D1 | HM INSUL | PTD | F4 | TBHM | PTD | INSTALL DOOR AND FRAME INTO EXISTING OPENING. | |
| 121B | 914 W x 2134 H | D2 | HM INSUL | PTD | F2 | TBHM | PTD | INSTALL DOOR INTO NEW FRAMING. | 1 |
| 133A | 914 W x 2134 H | D4 | ALUMINUM | PTD | F6 | TB AL | PTD | INSTALL DOOR AND FRAME INTO EXISTING OPENING. | 1 |
| 133B | 914 W x 2134 H | D4 | ALUMINUM | PTD | F6 | AL | PTD | INSTALL DOOR AND FRAME INTO EXISTING OPENING. | 1 |

SCHEDULE NOTES:
1. ALL DIMENSIONS TO BE SITE VERIFIED



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A Detail No. No. du détail
B drawing no. - where detail required dessin no. - ou détail exigé
C drawing no. - where detailed dessin no. - ou détaillé

project title
titre du projet
Ontario
PUKASKWA NATIONAL PARK ADMINISTRATION BUILDING REPAIR AND UPGRADES PHASE 2

drawing title
titre du dessin
DOOR SCHEDULE & DETAILS

drawn by
dessiné par MAH

designed by
conc par M.L. *S.M. For M.L.*

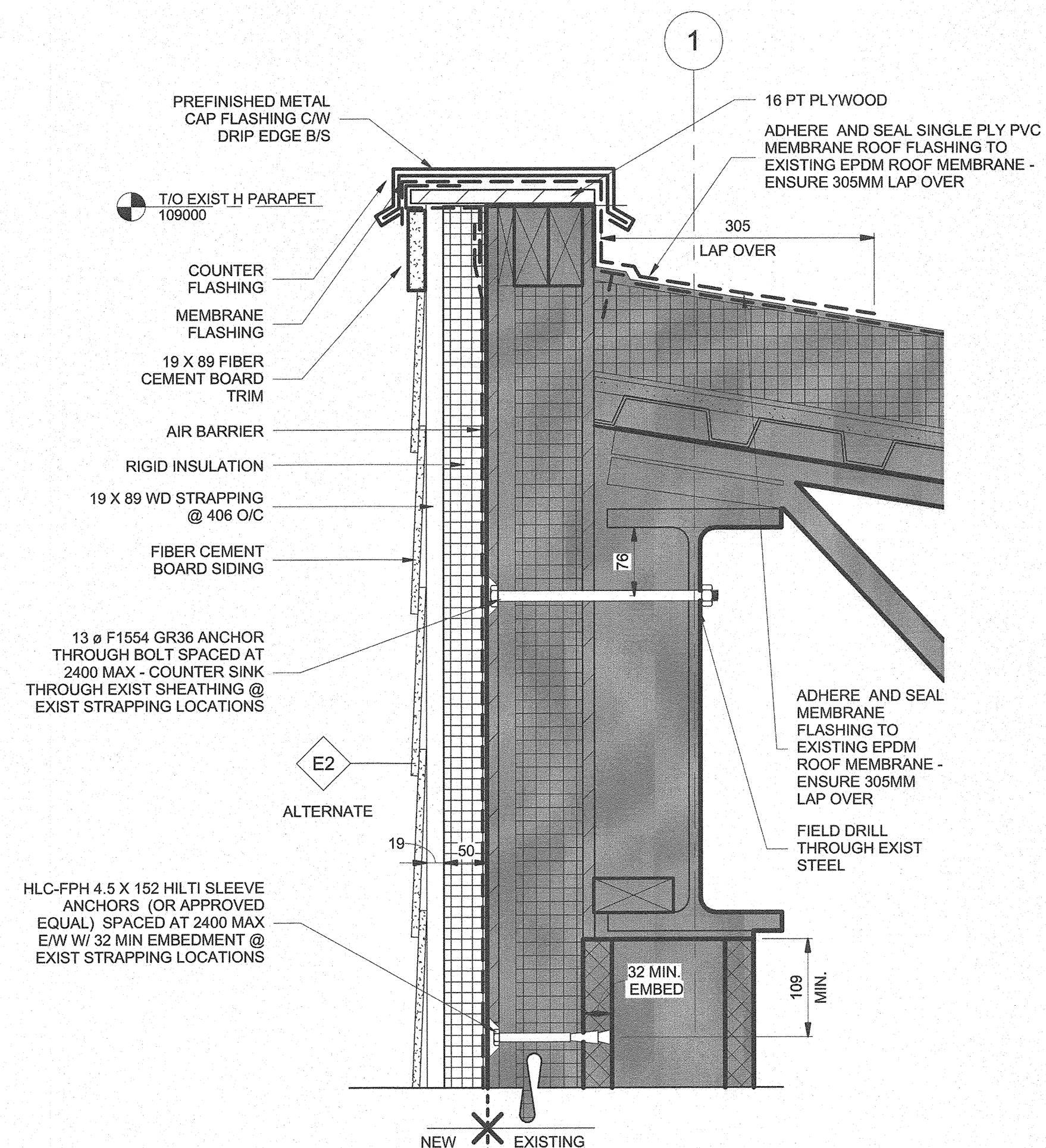
approved by
approuvé par TJA *JP*

tender submission
TENDER project manager
administrateur de projets

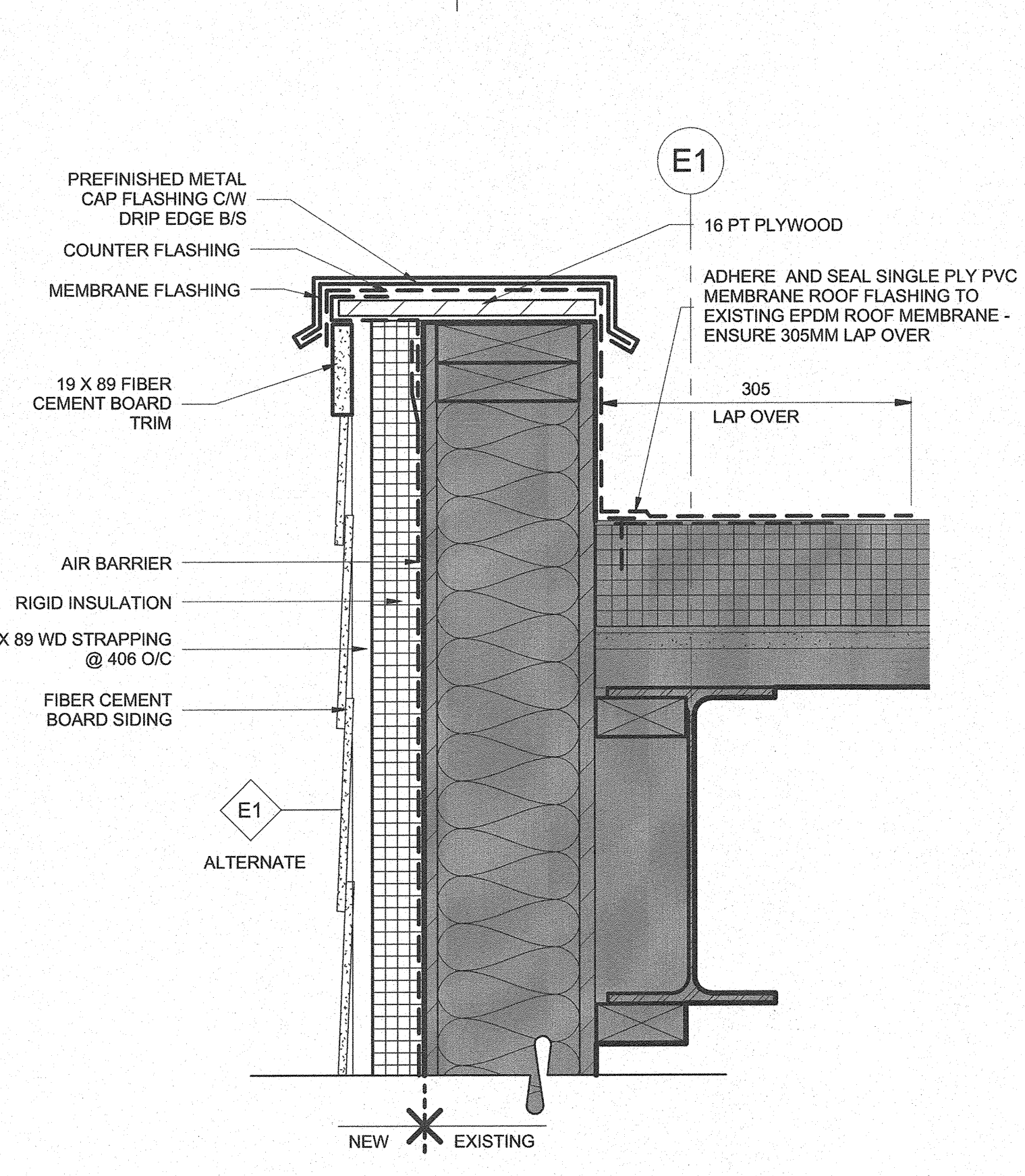
project date
date du projet 2017/01/27

project no.
no. du projet 151-06165-06

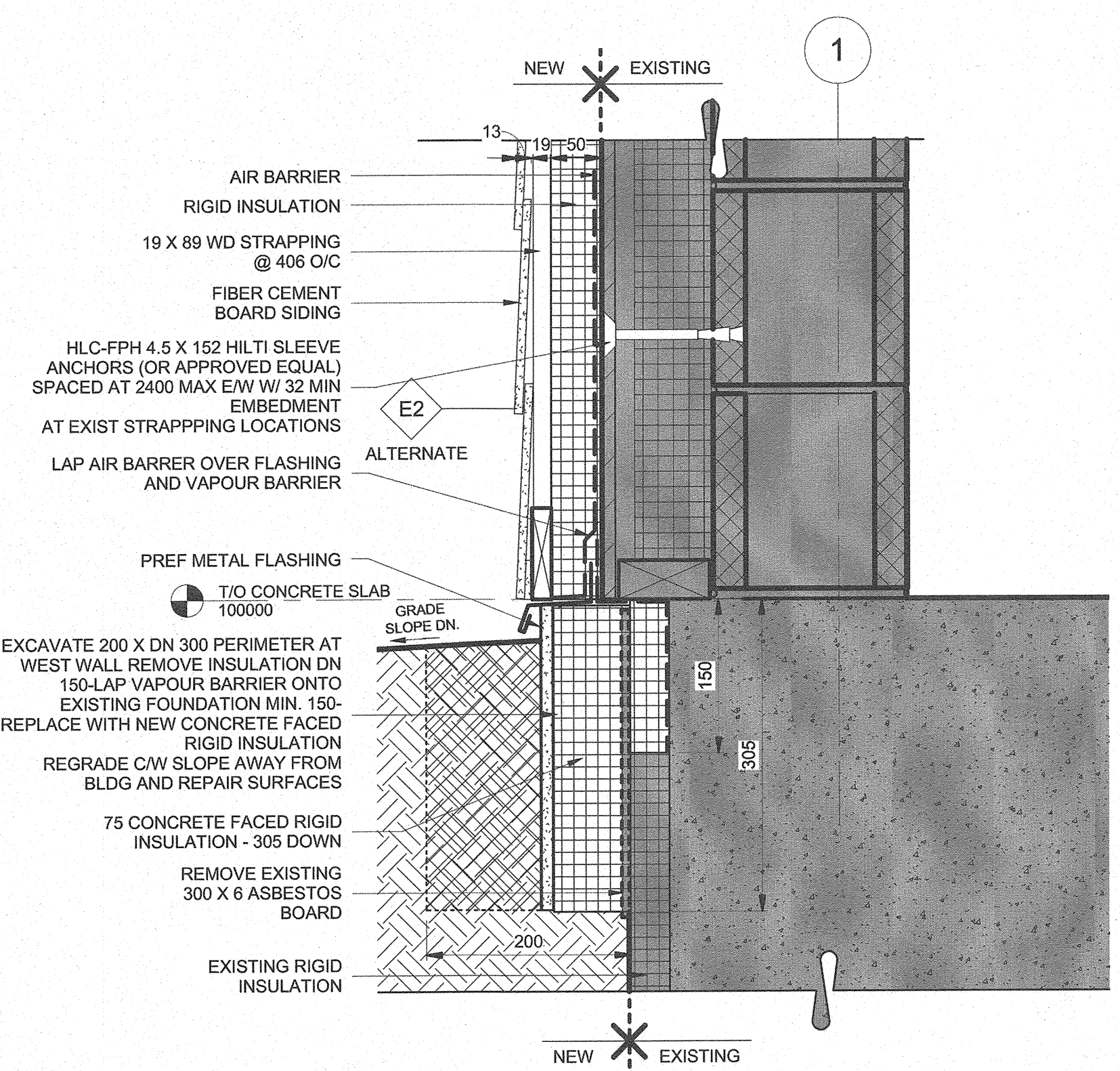
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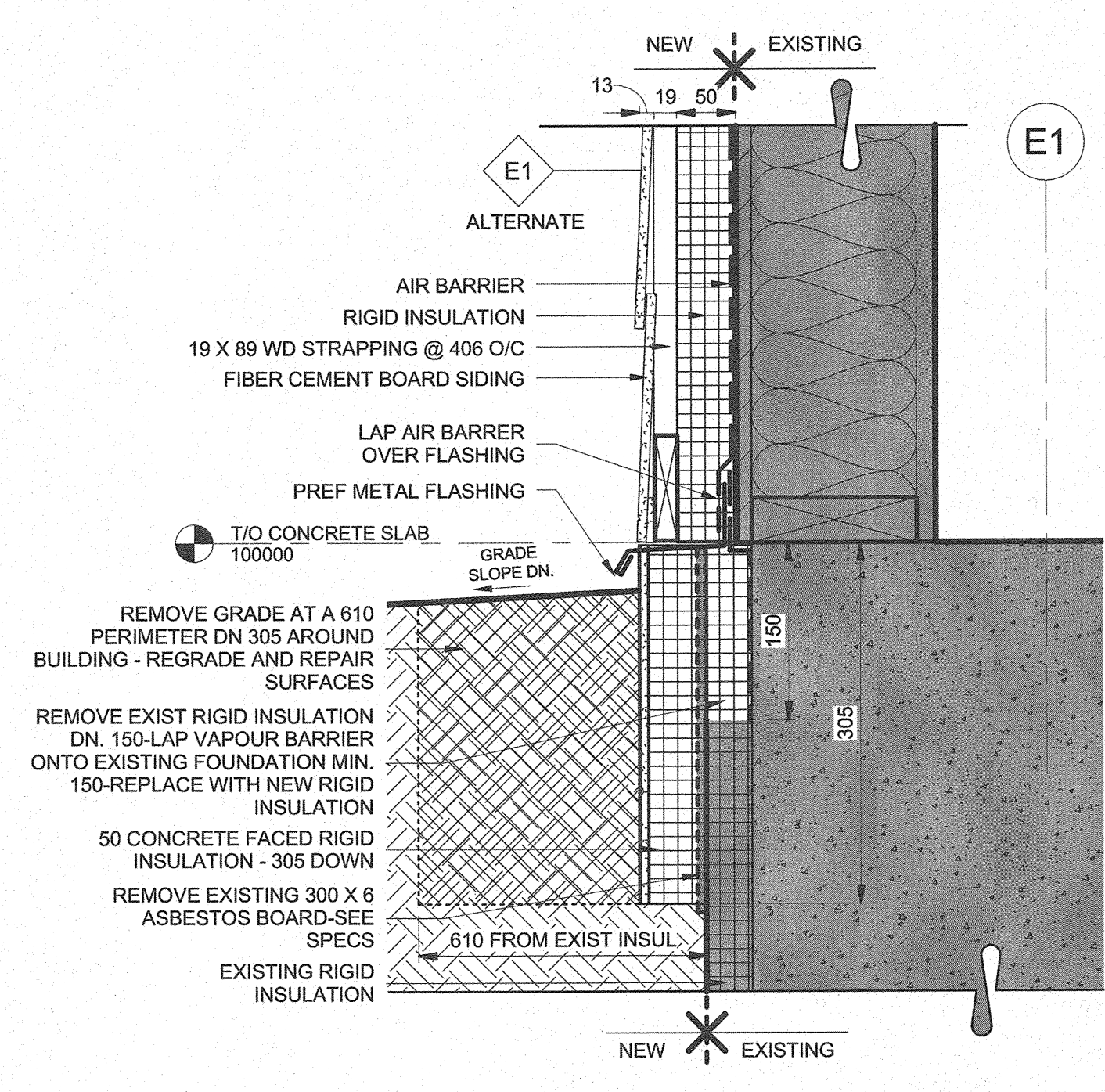
1 MASONRY WALL - Parapet Detail RIGID
A13 1:5



3 FRAME WALL - Parapet Detail RIGID
A13 1:5



2 MASONRY WALL - at Grade Detail RIGID
A13 1:5



4 FRAME WALL - at Grade Detail RIGID
A13 1:5

ALTERNATIVE NO. 1
INSULATION ALTERNATE: RIGID INSULATION (EXTRUDED POLYSTYRENE) - SEE SPECIFICATIONS

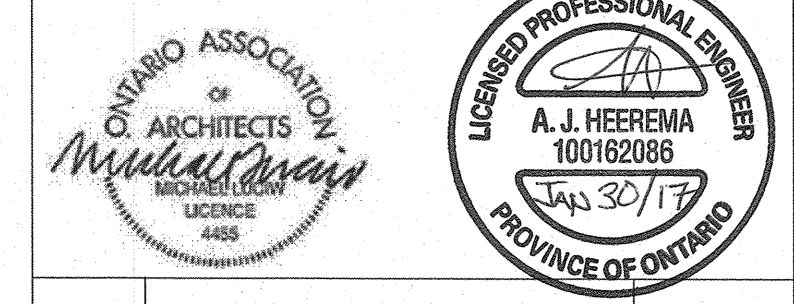
| WALL TYPES ALTERNATIVE NO. 1 | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| NOTE: REFER TO FLOOR PLAN FOR RATED WALL LOCATIONS. WALL ASSEMBLIES TO BE RATED ONLY IN LOCATIONS INDICATED ON FLOOR PLAN. FOR WOOD STRAPPING, #10 WOOD SCREWS (152 LG), 2 PER STUD OR STRAPPING WHERE RUNNING PERPENDICULAR AND @ 203 O/C WHERE RUNNING PARALLEL. UNLESS NOTED OTHERWISE | | |
| TYPE | ASSEMBLY | NOTES |
| E1 | NEW FIBER CEMENT BOARD (PLANK, PANEL, TRIM) 19 x 89 VERT. WOOD STRAPPING @ 406 O/C (MATCH EXIST STUDS) 50 RIGID INSULATION (R10) AIR BARRIER 13 PLYWOOD SHEATHING (EXISTING) R-24 BATTS TO FILL CAVITY (EXISTING) 38 x 140 WOOD STUDS @ 400 O/C (EXISTING) VAPOUR BARRIER (EXISTING) 16 GYPSUM BOARD (EXISTING) | |
| E2 | NEW FIBER CEMENT BOARD (PLANK, PANEL, TRIM) 19 x 89 VERT. WOOD STRAPPING @ 406 O/C (MATCH EXIST STRAPPING) 50 RIGID INSULATION (R10) AIR BARRIER 13 PLYWOOD SHEATHING (EXISTING) WOOD STRAPPING (EXISTING) 75 RIGID INSULATION (EXISTING) AIR BARRIER (EXISTING) 190 CMU (EXISTING) | SEE DETAILS 1,2 & 4 ON SHEET A9 |
| E3 | NEW FIBER CEMENT BOARD (PLANK, PANEL, TRIM) 19 x 89 VERT. WOOD STRAPPING @ 406 O/C (MATCH EXIST STUDS) 50 RIGID INSULATION (R10) AIR BARRIER 13 PLYWOOD SHEATHING R-24 BATTS TO FILL CAVITY 38 x 140 WOOD STUDS @ 406 O/C VAPOUR BARRIER 16 GYPSUM BOARD | |
| E4 | NEW FIBER CEMENT BOARD (PLANK, PANEL, TRIM) 19 x 89 VERT. WOOD STRAPPING @ 406 O/C (MATCH EXIST STUDS) 50 RIGID INSULATION (R10) AIR BARRIER 13 PLYWOOD SHEATHING (EXISTING) WOOD STRAPPING (EXISTING) 75 RIGID INSULATION (EXISTING) 16 PLYWOOD SHEATHING (EXISTING) 38 x 140 WOOD STUDS @ 400 O/C (EXISTING) 16 PLYWOOD SHEATHING (EXISTING) | |



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ARCHITECTURE | 49

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| B | drawing no. - where detail required |
| C | drawing no. - where detailed |

project title
titre du projet
Pukaskwa National Park Administration Building Repair and Upgrades Phase 2
Ontario

drawing title
titre du dessin
ALTERNATIVE #1 SECTIONS

drawn by
dessiné par
designed by
conçue par
approved by
approuvé par

tender submission
soumission de projet
project manager
administrateur de projet

project date
date du projet
2016/01/27

project no.
no. du projet
151-06165-06

drawing no.
dessiné no.
A13

1. GENERAL

CONFORM TO THE GENERAL CONDITIONS OF THE CONTRACT.

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

COORDINATE WORK WITH ALL OTHER TRADES. EXAMINE ALL PROJECT DRAWINGS BEFORE PROCEEDING WITH THE WORK.

ELECTRICAL EQUIPMENT IS SHOWN NOT TO SCALE (N.T.S.) ON DRAWINGS.

IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE WITH THE GENERAL CONTRACTOR OF ANY CONFLICTS BETWEEN THE TRADES AT NO ADDITIONAL COST TO PARKS CANADA AGENCY (PCA).

DIVISION OF WORK TO BE PERFORMED BY THE GENERAL CONTRACTOR.

PROVIDE ALL MATERIALS AND DEVICES, ALL LABOUR AND TOOLS, AS WELL AS ANY MISCELLANEOUS MATERIALS REQUIRED TO COMPLETE ALL SYSTEMS SHOWN ON THE DRAWINGS RENDERING A COMPLETE AND OPERATING INSTALLATION.

SCHEDULE AND PERFORM THE WORK TO MEET THE COMPLETION SCHEDULE AS SET OUT BY THE GENERAL CONTRACTOR.

CHANGES TO THE WORK: AUTHORIZED BY CHANGE ORDER, SIGNED BY PCA'S REPRESENTATIVE.

ENSURE THAT ALL ELECTRICAL EQUIPMENT SUPPLIED BY OTHER TRADES IS SUITABLE FOR THE RESPECTIVE VOLTAGE.

MAINTAIN PHASE SEQUENCE AND COLOUR CODING.

WHERE VISIBLE, PROVIDE EMT CONDUITS AND BOXES FOR ALL LOW VOLTAGE WIRING SYSTEMS. WIREMOLD (PAINTED TO MATCH) TO BE USED IN ALL PUBLIC SPACES.

PROVIDE BRANCH CIRCUIT BREAKERS AS REQUIRED. PROVIDE POWER REQUIREMENTS, RECEPTACLES AND POWER TO ALL MECHANICAL, ELECTRICAL AND B.A.S. SYSTEMS AS REQUIRED. CO-ORDINATE WITH ALL TRADES.

ALL ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED ELECTRICIANS HOLDING A VALID CERTIFICATE OF QUALIFICATION.

INSTALLATION SHALL COMPLY WITH THE LATEST VERSIONS OF THE ONTARIO ELECTRICAL SAFETY CODE, THE ONTARIO BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.

CONTRACTOR TO PAY ALL FEES TO OBTAIN REQUIRED APPROVALS AND INSPECTION CERTIFICATES THROUGHOUT THE CONSTRUCTION.

DO NOT REDUCE THE STANDARDS ESTABLISHED BY THE DRAWINGS AND SPECIFICATIONS BY APPLYING ANY OF THE CODES REFERRED TO HEREIN.

CONTRACTOR TO COORDINATE WITH ALL TRADES TO COMPLETE THE WORK WITHOUT INTERRUPTING PARKS CANADA OPERATIONS.

AS PER THE SCOPE OF WORK OUTLINED, THE EXTERIOR ENVELOPE OF THE BUILDING IS TO BE EXTENDED APPROXIMATELY 6". THIS WILL REQUIRE EXTERIOR PENETRATIONS BE EXTENDED (I.E. ELECTRICAL WIRING, CONDUIT/PIPING, DUCT WORK, ETC.) ANY EXTERIOR RUN PIPING/CONDUIT IS TO BE SUPPORTED AND CONCEALED IN THE BUILDING ENVELOPE, ANY PULL BOXES, ELBOWS, ACCESS POINTS TO BE ACCESSIBLE VIA INSULATED ACCESS DOOR.

ANY EXTERIOR EQUIPMENT TO BE REMOVED /RE-INSTALLED AS REQUIRED DURING THE SCOPE OF WORK.

1. TEMPORARY FACILITIES AND WASTE DISPOSAL

PROVIDE TEMPORARY POWER AND LIGHTING AS REQUIRED BY THE GENERAL CONTRACTOR FOR CONSTRUCTION. CONTRACTOR SHALL ARRANGE TO PAY FOR TEMPORARY SERVICES AND FEES FOR ANY REQUIRED TEMPORARY SERVICE PERMITS.

PROVIDE TEMPORARY STORAGE AS REQUIRED FOR ELECTRICAL CONSTRUCTION EQUIPMENT AND MATERIALS.

PARKING SHALL BE ARRANGED WITH PCA.

REMOVE ALL CONSTRUCTION WASTE FROM SITE.

APPLY WASTE MANAGEMENT FOR REDUCTION, RECYCLING, AND REUSE.

3. SUBMITTALS

IF CONFLICTS ARE FOUND BETWEEN DRAWINGS OR BETWEEN THESE DOCUMENTS AND SITE CONDITIONS, INFORM CONSULTANT.

COMPLETE COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW BEFORE WORK COMMENCES. SHOP DRAWINGS TO CONSIST OF ALL EQUIPMENT TO BE INSTALLED.

CHANGES TO THE CONTRACT RESULTING FROM UNFORESEEN SITE CONDITIONS, OR CHANGES REQUIRED BY ANY AND ALL AUTHORITIES HAVING JURISDICTION SHALL BE SUBMITTED TO THE CONSULTANT FOR APPROVAL.

ONE (1) FULL SIZE SET OF "RECORD DRAWINGS" AND SPECIFICATIONS SHALL BE MARKED AND SUBMITTED TO THE CONSULTANT. RECORD CHANGES TO THE DESIGN; INDICATE FINAL EQUIPMENT LOCATIONS; SKETCH ROUTES OF RACEWAYS AND LOCATION OF JUNCTION BOXES AND RISERS, MARK DEVICE ADDRESSES, ZONES AND PARTITIONS FOR ELECTRONIC SAFETY AND SECURITY SYSTEMS. IN "RECORD SPECIFICATIONS" MARK UP CHANGES TO FUNCTIONAL SPECIFICATIONS AND SEQUENCE OF OPERATIONS.

CERTIFICATE OF INSPECTION AND APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION SHALL BE SUBMITTED TO THE CONSULTANT.

TEST RESULTS SHALL BE SUBMITTED TO THE CONSULTANT.

SUBMIT OPERATING AND MAINTENANCE (O&M) DOCUMENTS TO PCA AND CONSULTANT.

4. GENERAL PRODUCT REQUIREMENTS

ALL MATERIAL SHALL BE COMMERCIAL GRADE, NEW, WITHOUT DEFECT AND CSA APPROVED UNLESS OTHERWISE NOTED. AS INDICATED ON THE LAYOUT DRAWINGS.

ALL ELECTRICAL FITTINGS, SUPPORTS, BOXES ETC., SHALL BE GALVANIZED OR PAINTED FINISH OVER CORROSION RESISTANT PRIMER.

IN ALL AREAS: WIRING SHALL BE CONCEALED IN WALL AND DEVICES SHALL BE MOUNTED RECESSED IN WALL AND CEILING SURFACES. OBTAIN CONSULTANT APPROVAL OTHERWISE.

MOUNTING HEIGHTS FOR DEVICES AS SPECIFIED.

PROVIDE VAPOUR BARRIER BOXES FOR ELECTRICAL BOXES THAT PENETRATE INTO EXTERIOR WALLS.

ALL 120V/208V INDOOR BRANCH CIRCUIT WIRING MINIMUM: #12AWG COPPER, TYPE T90 OR EQUIVALENT.

ALL POWER FEEDERS TO BE AC90 OR R90 COMPLETE WITH CONDUIT.

4. GENERAL PRODUCT REQUIREMENTS (CONTINUED)

INSTALL INSULATED GREEN BONDING CONDUCTOR IN ALL EMT CONDUIT.

ARMoured CABLE, AC90: ACCEPTABLE FOR EQUIPMENT DROPS WHERE CONDUIT IS IMPRACTICAL AS APPROVED BY CONSULTANT. CABLES BETWEEN LIGHTING FIXTURES TO BE AC90.

CONNECTION TO MOTORS: FLEXIBLE CONDUIT, LIQUID-TIGHT IN WET LOCATIONS.

CABLES SHALL BE RATED FT6 WHERE INSTALLED IN AIR RETURN PLENUM SPACES AND ARE NOT TOTALLY ENCLOSED. CABLES SHALL BE RATED FT4 OTHERWISE.

RACEWAYS SHALL BE RIGID, GALVANIZED STEEL WHERE EXPOSED TO MECHANICAL INJURY OR DAMP LOCATIONS, AND EMT IN ALL OTHER LOCATIONS.

SAFETY SWITCHES: QUICK-MAKE, QUICK BREAK, VOIDABLE COVER INTERLOCK, LOCKABLE IN "OFF" POSITION, FUSED.

PANELBOARDS: COMPLETE WITH BRANCH CIRCUIT BREAKERS, THERMAL-MAGNETIC TRIP, BOLT-ON FIELD INTERCHANGEABLE.

PROVIDE SPARE PARTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

5. GENERAL EXECUTION REQUIREMENTS

IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE WITH THE GENERAL CONTRACTOR OF ANY CONFLICTS BETWEEN SUB TRADES AT NO ADDITIONAL COST TO PCA.

PROVIDE APPROPRIATE ACCESSORIES TO COMPLETE THE INSTALLATION INCLUDING, BUT NOT LIMITED TO FASTENINGS, SUPPORTS, CONNECTORS, SEALANTS.

CUT, PATCH AND MAKE GOOD TO LEAVE WORK IN FINISHED CONDITION. DO NOT CUT LOAD-BEARING STRUCTURAL MEMBERS.

ALL SUB-GRADE CABLING TO BE TECK 90 OR EQUIVALENT. NO CONDUIT TO BE USED BELOW GRADE. NO EXCEPTION.

BOND ALL EQUIPMENT.

PROVIDE EXPANSION COUPLINGS WHERE RACEWAY CROSSES BUILDING CONTROL JOINTS.

CLEAN CONDUIT OF OBSTRUCTIONS BEFORE PULLING WIRE.

PROVIDE KNOCK-OUT PLUGS AND COVER PLATES TO COVER OPENINGS ON BOXES AND PANELS.

INSTALLATION SHALL BE CARRIED OUT IN SUCH MANNER THAT THE FIRE RATING OF THE STRUCTURE IS MAINTAINED, INCLUDING RECESSED FIXTURES.

PROVIDE FIRE AND SMOKE SEALS FOR ALL PENETRATIONS THROUGH WALL, FLOOR AND ROOF ASSEMBLIES.

PROVIDE RATED FIRE-STOPPING FOR ALL PENETRATIONS THROUGH FIRE-RESISTANCE RATED WALL, FLOOR AND ROOF ASSEMBLIES.

ALL NON-POWER CABLES RUN THROUGH THE CEILING SPACE SHALL BE INSTALLED WITH J-HOOKS OR SECURED TO STRUCTURE SO THAT THE CABLES ARE SUPPORTED ABOVE THE CEILING TILES. CABLES AND CONDUIT SHALL NOT BE SUPPORTED FROM MECHANICAL PIPING OR DUCTWORK.

COMMUNICATION CABLES SHALL NOT BE RUN OVER OR IN DIRECT PROXIMITY TO LIGHTING FIXTURES, MOTORS, MAGNETS, OR ELECTRICAL JUNCTION BOXES.

ROUTE EMERGENCY LIGHTING WIRING INDEPENDENT OF CONDUCTORS, RACEWAYS, AND BOXES USED FOR OTHER CIRCUITS.

PROVIDE INSTRUCTIONS FOR EMERGENCY UNIT EQUIPMENT IN ACCORDANCE WITH NATIONAL BUILDING CODE.

IN FINISHED AREAS, ELECTRICAL BOXES AND PANELS SHALL BE RECESSED AND WIRING OR CONDUIT SHALL BE CONCEALED.

INSTALL RACEWAY AND EQUIPMENT PLUMB, SQUARE AND STRAIGHT WITH RESPECT TO BUILDING LINES.

PROVIDE COMPLETE, CLEARLY LEGIBLE PANEL DIRECTORY MOUNTED INSIDE THE DOOR OF EACH ELECTRICAL PANEL.

CLEARLY IDENTIFY ALL NEW DISTRIBUTION PANELS, DISCONNECTS, AND CONTACTORS WITH LAMACOID LABELS.

PROVIDE LABELS ON ELECTRICAL DISTRIBUTION EQUIPMENT TO WARN PERSONS OF POTENTIAL ELECTRIC SHOCK AND ARC FLASH HAZARDS.

ALL RECEPTACLES SHALL BE IDENTIFIED WITH A PERMANENT, TYPE-WRITTEN LABEL INSTALLED ON THE COVER PLATE, INDICATING SOURCE PANEL AND BRANCH CIRCUIT NUMBER.

CONTRACTOR SHALL REPAIR OR PAY FOR ALL DAMAGE TO THE BUILDING INCURRED BY THE WORK OF THIS DIVISION.

6. FIRE ALARM & DETECTION SYSTEM NOTES

INSTALL TO CAN/ULC-S524 AND THE ONTARIO BUILDING CODE. TEST AND VERIFY TO CAN/ULC-S536 AND CAN/ULC-S537.

FIRE ALARM JUNCTION BOXES SHALL BE OF A RED COLOUR.

MAINTAIN 450MM (MIN.) DISTANCE BETWEEN ANY CEILING FIRE ALARM SPOT DETECTOR AND SUPPLY AND/OR EXHAUST AIR DUCTS.

SUBMIT DOCUMENTATION REQUIRED BY CAN/ULC-S524 PARAGRAPH 3.5.1 - 2 COPIES TO CONSULTANT.

SUBMIT AS-BUILT MARKUPS ON FULL SIZE DRAWINGS PROVIDED BY CONSULTANT, SHOWING ANY CHANGES TO ZONING, DEVICE LOCATIONS, AND RISER DIAGRAM.

PERFORM FIRE ALARM VERIFICATION. FIRE ALARM VERIFICATION TO BE PERFORMED BY PCA'S PREFERRED VERIFICATION COMPANY.

PCA'S PREFERRED VERIFICATION COMPANY TO PERFORM ROUGH-IN INSPECTION WITH REPORT ISSUED TO CONSULTANT.

FIRE ALARM DESIGN TO BE VERIFIED BY PCA'S PREFERRED VERIFICATION COMPANY AND REPORT SUBMITTED TO CONSULTANT.

7. COMMISSIONING

TEST THE ELECTRICAL INSTALLATION FOR PROPER AND SAFE OPERATION IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.

INSTRUCT PCA OR PCA'S REPRESENTATIVE IN OPERATION OF SYSTEMS.

"RECORD DRAWINGS" TO BE SUBMITTED TO THE CONSULTANT.



Public Works and
Government Services Canada
Architectural and Engineering Services
Ontario Region

Travaux publics et
Services gouvernementaux Canada
Services d'architecture et de génie
Région de l'Ontario



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project title
titre du projet

Ontario

PUKASKWA NATIONAL PARK
ADMINISTRATION BUILDING
REPAIR AND UPGRADES PHASE 2

drawing title
titre du dessin
CONSTRUCTION NOTES

| | | |
|-----------------------------|------------------------|----------------------------------------------|
| drawn by dessiné par | LMT <i>LMT</i> For LMT | |
| designed by conc par | KJW <i>KJW</i> | |
| approved by approuvé par | TJA <i>TJA</i> | |
| tender soumission | TENDER | project manager administrateur de projets |

project date
date du projet

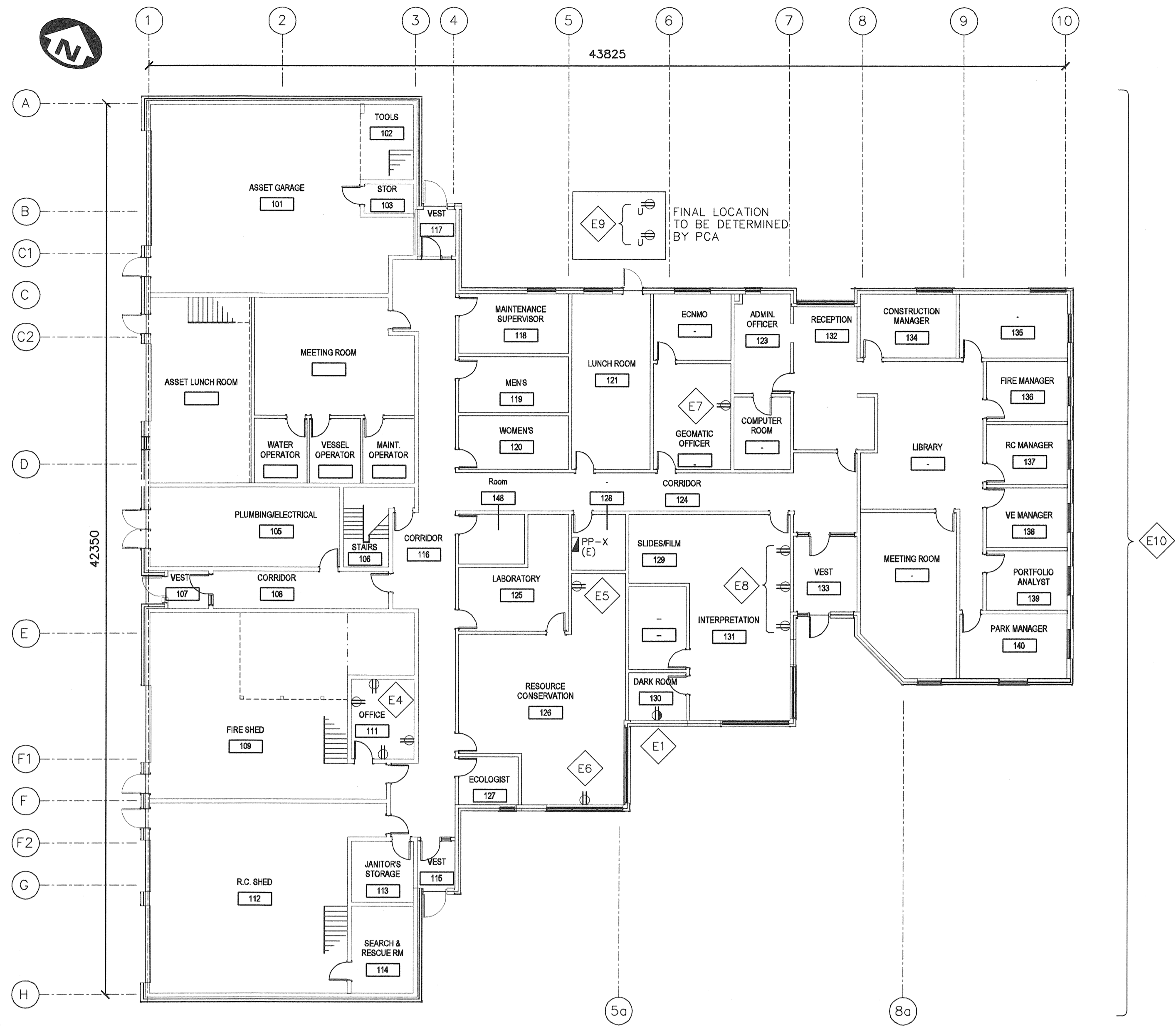
2017/01/27

project no.
no. du projet

151-06165-06

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dessiné no.

E1



INTERIOR POWER PLAN
SCALE: 1:150

INTERIOR POWER PLAN NOTES

- GENERAL:**
- REFER TO MECHANICAL DRAWINGS 5000 - 5001 FOR ADDITIONAL SCOPE OF WORK. PERFORM ALL TASKS REQUIRED, AS OUTLINED ON DRAWING 5000 TO COMPLETE A FULLY OPERATIONAL SYSTEM.
 - (E) DENOTES EXISTING DEVICE/EQUIPMENT.
 - ALL SUB-GRADE CABLING TO BE TECK 90 OR EQUIVALENT. NO CONDUIT TO BE USED BELOW GRADE. NO EXCEPTION.
 - DEMOLITION WORK: REMOVE ALL WIRING/CONDUIT BACK TO CIRCUIT BREAKER AND MARK CIRCUIT AS SPARE ON CIRCUIT DIRECTORY.
- E1** CONTRACTOR TO SUPPLY AND INSTALL COUNTERTOP RECEPTACLE IN DARK ROOM 130. WIRING TO BE RECESSED AND FISHED DOWN THE WALL. RECEPTACLE TO BE POWERED FROM DEDICATED 15A CIRCUIT LOCATED IN PP-X IN COMPUTER ROOM 128. CONFIRM FINAL LOCATION OF RECEPTACLE WITH PARKS CANADA AGENCY (PCA). (WORK ORDER E4).
- E2** (NOTE NOT USED)
- E3** (NOTE NOT USED)
- E4** CONTRACTOR TO REMOVE EXISTING TRACK STYLE RECEPTACLES AND REPLACE WITH FOUR (4) RECEPTACLES. RECEPTACLES TO BE POWERED BY EXISTING RECEPTACLE CIRCUIT. RECEPTACLES TO BE INSTALLED IN METALLIC IVORY WIREMOLD. CONFIRM FINAL LOCATIONS WITH PCA. (WORK ORDER E9).
- E5** CONTRACTOR TO SUPPLY AND INSTALL ONE (1) RECEPTACLE BEHIND WORK DESK. WIRING TO BE RECESSED AND FISHED DOWN WALL. RECEPTACLE TO BE POWERED BY EXISTING RECEPTACLE LOCATED OPPOSITE ON EAST WALL. CONFIRM FINAL LOCATION WITH PCA. (WORK ORDER E5).
- E6** CONTRACTOR TO SUPPLY AND INSTALL ONE (1) DEDICATED RECEPTACLE ON THE STRUCTURAL COLUMN. RECEPTACLE TO BE POWERED BY A DEDICATED 15A CIRCUIT FROM PP-X, AND INSTALLED IN METALLIC IVORY WIREMOLD FROM THE CEILING TO 450mm A.F.F. (WORK ORDER E5).
- E7** CONTRACTOR TO SUPPLY AND INSTALL ONE (1) RECEPTACLE BEHIND PHOTOCOPIER. WIRING TO BE RECESSED AND FISHED DOWN THE WALL. RECEPTACLE TO BE POWERED BY A DEDICATED 15A CIRCUIT FROM PP-X. (WORK ORDER E5).
- E8** CONTRACTOR TO REMOVE EXISTING TRACK STYLE RECEPTACLES AND REPLACE WITH THREE (3) RECEPTACLES. RECEPTACLES TO BE POWERED BY EXISTING RECEPTACLE CIRCUIT. RECEPTACLES TO BE INSTALLED IN METALLIC IVORY WIREMOLD. CONFIRM FINAL LOCATIONS WITH PCA. (WORK ORDER E5).
- E9** CONTRACTOR TO PROVIDE ADDITIONAL TWO (2) 20A RECEPTACLES IN LUNCH ROOM 121. WIRING TO BE RECESSED AND FISHED DOWN THE WALL. RECEPTACLES TO BE POWERED BY TWO (2) 20A BREAKERS FROM PP-X. CONFIRM FINAL LOCATIONS WITH PCA. (WORK ORDER E5).
- E10** ELECTRICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES TO COMPLETE ALL TASKS AND WORK ORDERS OUTLINED IN 5000 SERIES DRAWINGS.
- E11** (NOTE NOT USED)

INTERIOR POWER DEVICE SCHEDULE

| ITEM | DESCRIPTION | MANUF./CAT. No. |
|------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------|
| ⊕ _(E) | EXISTING 15A/20A 120V DUPLEX RECEPTACLE | EXISTING |
| ⊕ | 15A, 120V, 5-15R, IVORY, SELF-GROUNDING COMMERCIAL GRADE DUPLEX RECEPTACLE, STAINLESS STEEL PLATE COVER, REGULAR STYLE | LEVITON TBR15-1 |
| ⊕ _U | 20A, 120V, 5-20R, IVORY, SELF-GROUNDING COMMERCIAL GRADE DUPLEX RECEPTACLE, STAINLESS STEEL PLATE COVER, REGULAR STYLE | LEVITON 7599-1 |
| ⊕ | 15A, 120V, 5-15R, IVORY, SELF-GROUNDING, SELF-TESTING COMMERCIAL GRADE GFCI RECEPTACLE, STAINLESS STEEL PLATE COVER, REGULAR STYLE | LEVITON 7899-SGI |

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Architectural and Engineering Services
Ontario Region
Travaux publics et Services gouvernementaux Canada
Services d'architecture et de génie
Région de l'Ontario



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Ontario
PUKASKWA NATIONAL PARK ADMINISTRATION BUILDING REPAIR AND UPGRADES PHASE 2

drawing title
titre du dessin
INTERIOR POWER PLAN

drawn by
dessiné par
LMT *[Signature]* For LMT

designed by
conçu par
KJW *[Signature]*

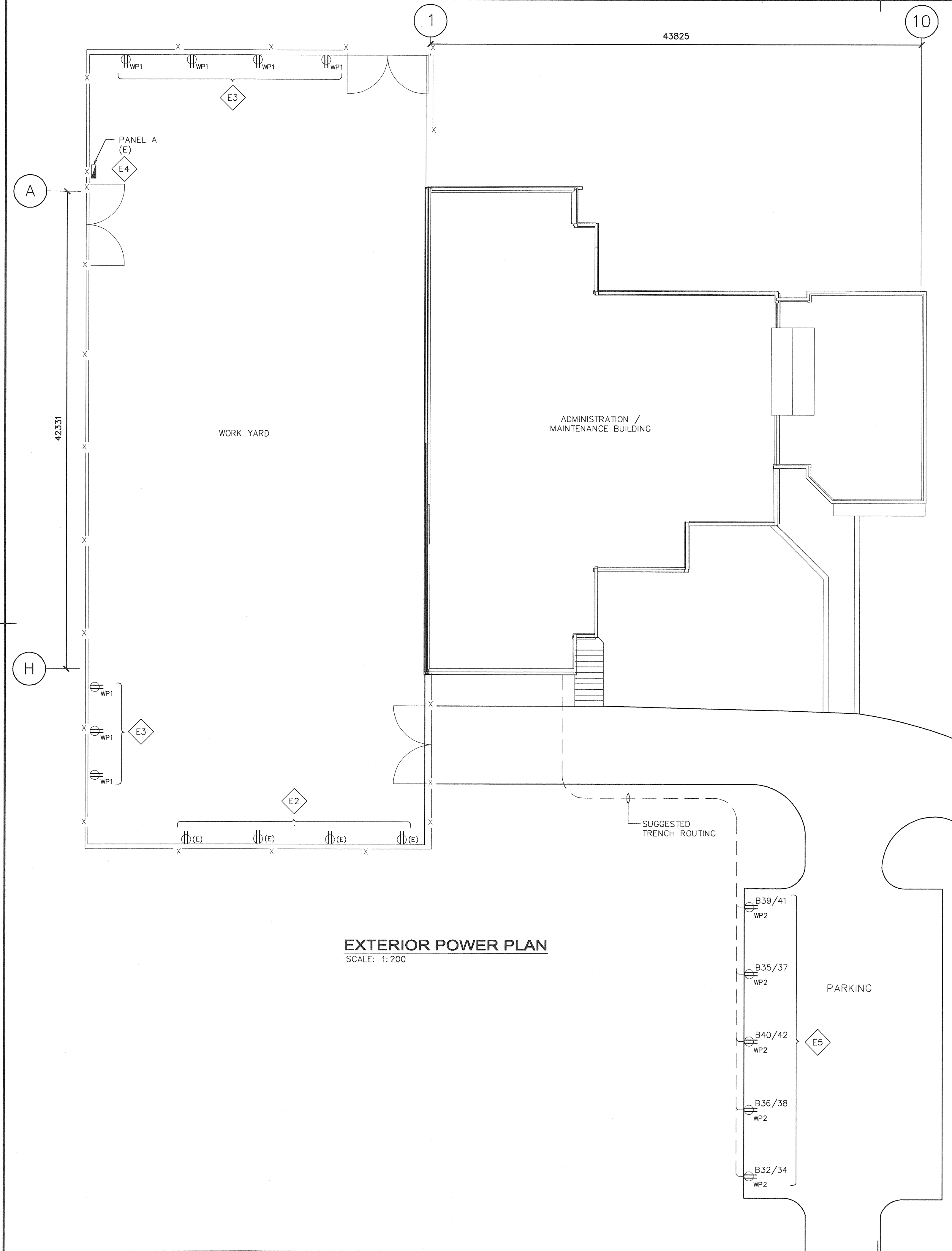
approved by
approuvé par
TJA *[Signature]*

tender submission
projet manager
administrateur de projets
TENDER

project date
date du projet
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project no.
no. du projet
151-06165-06

drawing no.
dessiné no.
E2



EXTERIOR POWER PLAN NOTES

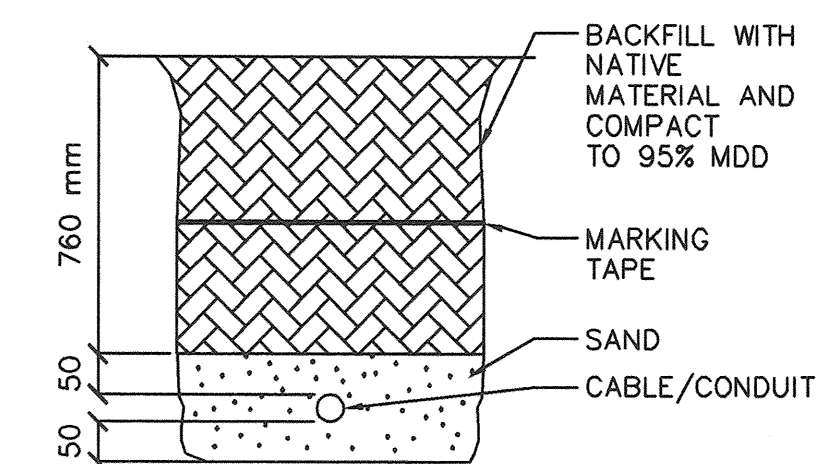
GENERAL:

- (E) DENOTES EXISTING DEVICE/EQUIPMENT.
- ALL SUB-GRADE CABLING TO BE TECK 90 OR EQUIVALENT. NO CONDUIT TO BE USED BELOW GRADE. NO EXCEPTION.

- ◊ E1 (NOTE NOT USED)
- ◊ E2 CONTRACTOR TO REMOVE EXISTING EXTERIOR RECEPTACLE C/W CONDUIT AND WIRING TO POWER PANEL A. CONDUIT TO BE SEALED AT GRADE, AT BOTH PANEL A, AND AT EACH POST. (WORK ORDER E11).
- ◊ E3 CONTRACTOR TO REPAIR EXISTING ABOVE GROUND CONDUIT/BOX AS REQUIRED. RECEPTACLE TO BE REPLACED WITH NEW SPLIT, 15A, 120V IPLC RECEPTACLE AS SPECIFIED. RECEPTACLES TO BE PROGRAMMED AS PER PARKS CANADA AGENCY (PCA) INSTRUCTIONS. IPLC PROGRAMMER TO BE ORDERED FOR RECEPTACLE COMMISSIONING. (WORK ORDER E11).
- ◊ E4 CONTRACTOR TO SUPPLY AND REPLACE EXISTING EXTERIOR PP-A C/W EXTERIOR CABINET. REFER TO DEVICE SCHEDULE FOR PANEL SPECIFICATIONS. CONTRACTOR TO CONFIRM PANEL AND CIRCUIT SPECIFICATIONS. (WORK ORDER E2).
- ◊ E5 CONTRACTOR TO SUPPLY AND REPLACE FIVE (5) SPLIT BLOCK HEATER RECEPTACLES LOCATED IN PARKING LOT. CONTRACTOR TO SUPPLY/INSTALL CONDUIT/CABLE AS REQUIRED FROM PP-B TO PARKING LOT. ASPHALT CUTTING/PATCHING IS REQUIRED. CONTRACTOR TO CONFIRM EXISTING CIRCUIT USED, AND PROVIDE AS-BUILT RECORD DRAWINGS. (NO WORK ORDER).

EXTERIOR POWER DEVICE SCHEDULE

| ITEM | DESCRIPTION | MANUF./CAT. No. |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| ☑ | POWER PANEL, 42 CIRCUIT, 100A MAIN BREAKER, 120/208V, 3 PHASE, 4 WIRE, NEMA 3R RATED, LOCKABLE, PANEL DIRECTORY HOLDER, PANEL TO BE INSTALLED C/W WEATHER PROOF CABINET. EXISTING CIRCUIT COUNT: 15A 1P 10kA - 11 15A 2P 10kA - 12 20A 2P 10kA - 1 30A 2P 10kA - 1 | GENERIC |
| ⊕(E) | EXISTING 15A/20A 120V DUPLEX RECEPTACLE | EXISTING |
| ⊕ WP | 15A, 120V, 5-15R, WHITE, SELF-GROUNDING, SELF-TESTING COMMERCIAL GRADE GFCI RECEPTACLE, C/W HEAVY DUTY WHILE-IN-USE COVER | LEVITON GFWR1-W C/W RED DOT CKMUV |
| ⊕ WP1 | 15A, 120V, 5-15R, SPLIT REGULAR IPLC RECEPTACLE, C/W HEAVY DUTY WHILE-IN-USE COVER | IPLC M210-15 C/W RED DOT CKMUV |
| ⊕ WP2 | 15A, 120V, 5-15R, SPLIT REGULAR IPLC RECEPTACLE, C/W HEAVY DUTY WHILE-IN-USE COVER. RECEPTACLE TO BE INSTALLED C/W 8" X 8" POST INSTALLED 2.0m IN THE GROUND AND 1.0m ABOVE GROUND. | IPLC M210-15 C/W RED DOT CKMUV |



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project title
titre du projet
Ontario
PUKASKWA NATIONAL PARK
ADMINISTRATION BUILDING
REPAIR AND UPGRADES PHASE 2

drawing title
titre du dessin
EXTERIOR POWER PLAN

drawn by
dessiné par **LMT** *SAM For LMT*

designed by
conçue par **KJW** *KJW*

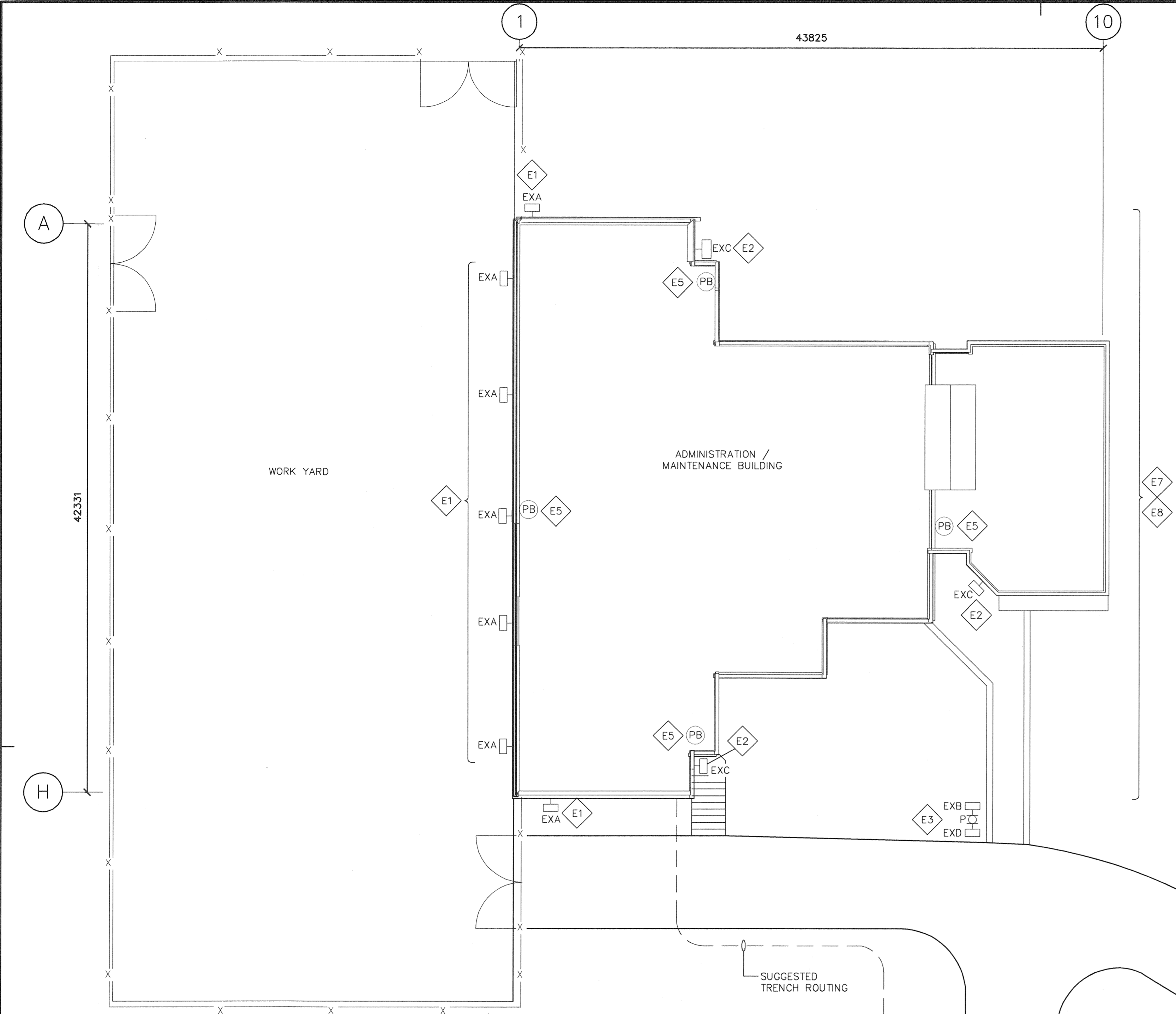
approved by
approuvé par **TJA** *TJA*

tender
soumission **TENDER** project manager
administrateur de projets

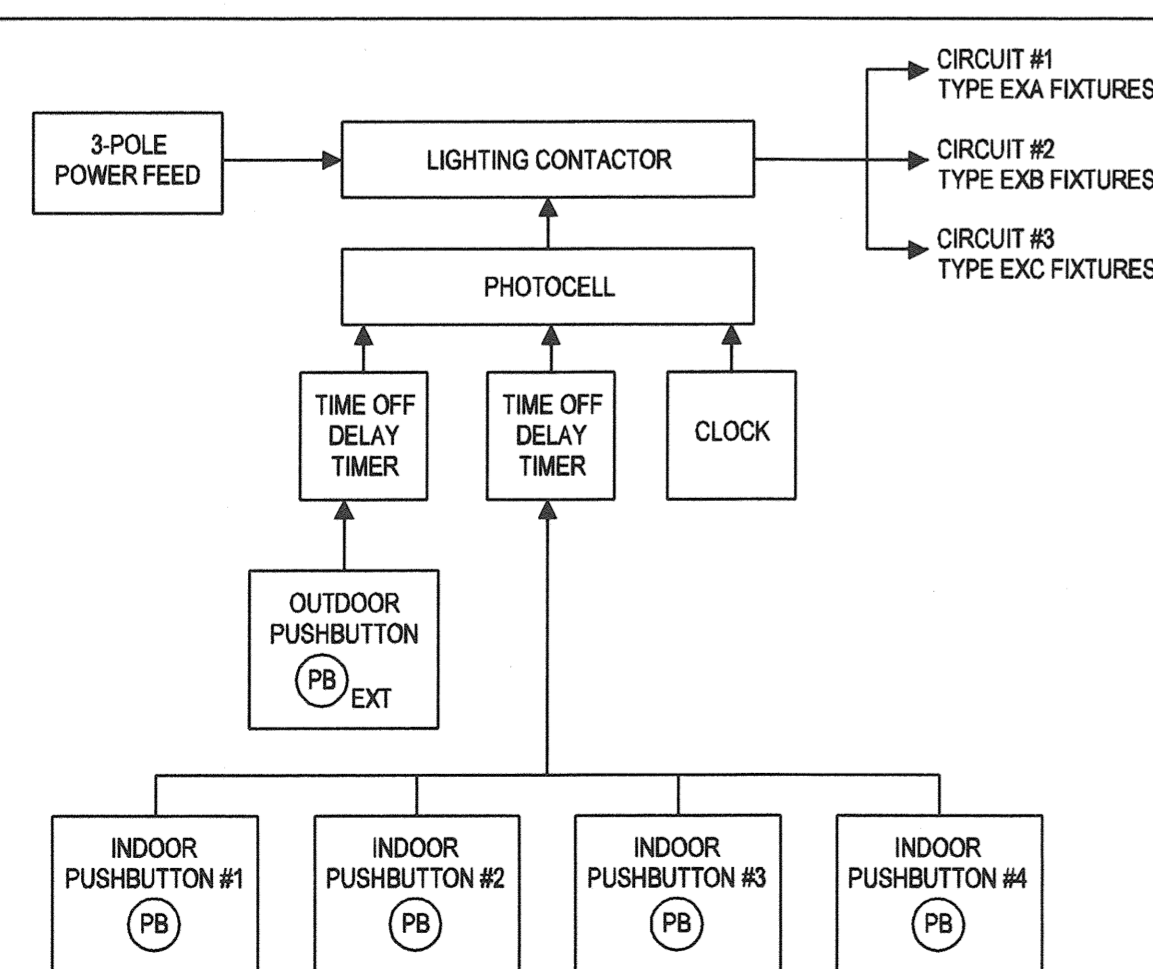
project date
date du projet **2017/01/27**

project no.
no. du projet **151-06165-06**

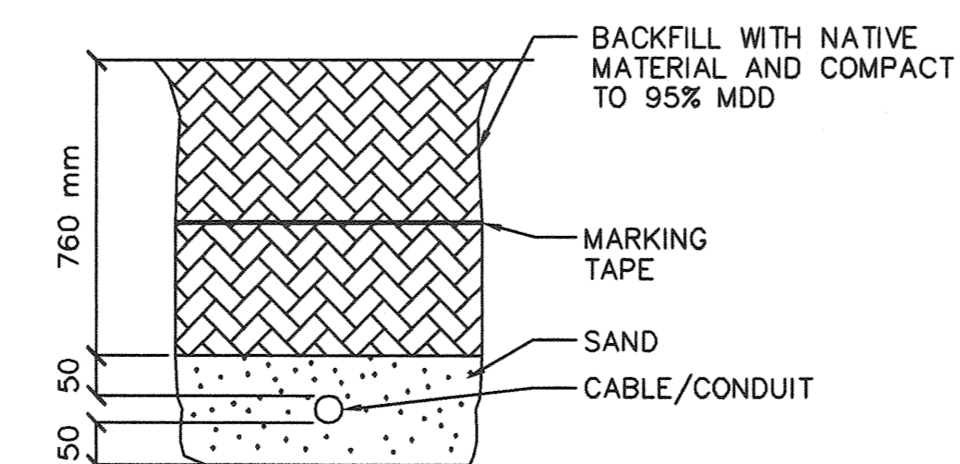
drawing no.
dessiné no. **E3**



EXTERIOR LIGHTING PLAN
SCALE: 1:200



EXTERIOR LIGHTING CONTROL WIRING BLOCK DIAGRAM
SCALE: N.T.S.



TYP. TRENCH DETAIL
SCALE: N.T.S.

EXTERIOR LIGHTING CONTROL SCOPE OF WORK

POWER SOURCE:

- ALL EXTERIOR LIGHTING TO BE POWERED BY 3-POLE, 15A BREAKER FROM THE LIGHTING PANEL LOCATED IN MECHANICAL ROOM 201.
- 3-POLE LIGHTING CONTACTOR (120VAC COIL) C/W ON/OFF/AUTO SELECTOR SWITCH LOCATED IN MECHANICAL ROOM 201 TO BE USED TO CONTROL ALL EXTERIOR LIGHTING.

LIGHTING CONTROL:

- ALL EXTERIOR LIGHTING TO BE CONTROLLED BY A COMBINATION OF MASTER PHOTOCELL, DIGITAL CLOCK, TIME OFF DELAY TIMERS AND INTERIOR/EXTERIOR MOMENTARY CONTACT PUSHBUTTONS.
- LIGHTING CONTACTOR - EATON OR EQUIVALENT
- PHOTOCELL - INTERMATIC EK4436SM
- TIME OFF DELAY TIMER, 15 MIN. - 60 MIN. RANGE - OMRON DIN RAIL MOUNT
- CLOCK - INTERMATIC, T103P (ON) 6:00 A.M. - 9:00 A.M.; (ON) 4:00 P.M. - 7:00 P.M. - CONFIRM WITH PARKS CANADA AGENCY (PCA).

ENCLOSURE:

- CONTACTOR, TIMERS, MECHANICAL CLOCK TO BE LOCATED INSIDE A WALL MOUNT, HINGED, LOCKABLE CABINET
- ENCLOSURE - HAMMOND

EXTERIOR LIGHTING PLAN NOTES

GENERAL:

- ALL EXTERIOR LIGHTING TO BE POWERED BY NEW 3-POLE, 120V LIGHTING CONTACTOR LOCATED IN PLUMBING/ELECTRICAL ROOM 105. INTERIOR AND EXTERIOR PUSHBUTTONS TO ACTIVATE ALL EXTERIOR LIGHTING.
- ALL WIRING TO BE RECESSED OR INSTALLED IN WIREMOLD PAINTED TO MATCH.
- LOW VOLTAGE LOGIC TO BE ADDED THROUGHOUT BUILDING AND PARKING LOT. SEE CONTROL LOGIC/BLOCK DIAGRAM.
- ALL SUB-GRADE CABLING TO BE TECK 90 OR EQUIVALENT. NO CONDUIT TO BE USED BELOW GRADE. NO EXCEPTION.

- ◆ E1 CONTRACTOR TO REMOVE EXISTING LIGHT FIXTURE TYPE 'EXA', AND REPLACE WITH SEVEN (7) LIGHT FIXTURES AS SPECIFIED IN LIGHTING SCHEDULE. MOUNT NEW FIXTURES AT 6000mm ABOVE GRADE.
- ◆ E2 CONTRACTOR TO REMOVE EXISTING LIGHT FIXTURE TYPE 'EXC', AND REPLACE WITH THREE (3) LIGHT FIXTURES AS SPECIFIED IN LIGHTING SCHEDULE. MOUNT NEW FIXTURES AT 3200mm ABOVE GRADE.
- ◆ E3 CONTRACTOR TO SUPPLY AND INSTALL TWO (2) TYPE 'EXB' FIXTURES, MOUNTED ON LIGHT POLE.
- ◆ E4 CONTRACTOR TO SUPPLY AND INSTALL OUTDOOR NEMA 4X RATED PUSHBUTTON C/W 8"x8" PRESSURE TREATED POST WITH 2.0M BELOW GRADE AND 2.5M ABOVE GROUND. PUSHBUTTON TO BE INSTALLED AT 1.25M A.F.G. C/W 200mm W X 300mm H OUTDOOR RATED GREEN LAMACOID LABEL "PRESS BUTTON TO ACTIVATE EXTERIOR LIGHTING".
- ◆ E5 CONTRACTOR TO SUPPLY AND INSTALL INDOOR PUSHBUTTON C/W 100MM W X 200MM H GREEN LAMACOID LABEL "PRESS BUTTON TO ACTIVATE EXTERIOR LIGHTING". PUSHBUTTON TO BE RECESSED.
- ◆ E6 (NOTE NOT USED)
- ◆ E7 CONTRACTOR TO PERFORM COMPLETE INTERIOR LIGHTING MAINTENANCE C/W REPLACING BURNT OUT LAMPS, FAILED BALLASTS AND DAMAGED SOCKETS. (WORK ORDER E15).
- ◆ E8 CONTRACTOR TO INSTALL PUSHBUTTONS AS SHOWN TO CREATE AN EMPLOYEE INTERACTIVE LIGHTING CONTROL SYSTEM. REFER TO LIGHTING CONTROL LOGIC AND CONTROL BLOCK DIAGRAM.

EXTERIOR LIGHTING SCHEDULE

| ITEM | DESCRIPTION | MANUF./CAT. No. |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| EXA | LED FLOOD LIGHT, WALL MOUNT, 120V, 85W, 800mA DRIVER, 3000K COLOUR TEMPERATURE, WIDE DISTRIBUTION, BRONZE FINISH C/W WALL MOUNT ADAPTER | McGRAW-EDISON GALLEON SERIES GLEON-AF-02-E1-T4W-BZ-ADJA-WM-8030-800 |
| EXB | LED FLOOD LIGHT, SLIPFITTER MOUNT, 120V, 85W, 800mA DRIVER, 3000K COLOUR TEMPERATURE, FORWARD THROW DISTRIBUTION, BRONZE FINISH C/W SLIPFITTER ADAPTER | McGRAW-EDISON GALLEON SERIES GLEON-AF-02-E1-T4FT-BZ-ADJS-8030-800 |
| EXC | LED WALL MOUNT, 120V, 67W, 1.2A DRIVER, 3000K COLOUR TEMPERATURE, BRONZE FINISH | McGRAW-EDISON GALLEON SERIES GWC-AC-01-LED-E1-SL4-BZ-8030-1200 |
| EXD | LED FLOOD LIGHT, SLIPFITTER MOUNT, 120V, 124W, 800mA DRIVER, 3000K COLOUR TEMPERATURE, FORWARD THROW DISTRIBUTION, BRONZE FINISH C/W SLIPFITTER ADAPTER | McGRAW-EDISON GALLEON SERIES GLEON-AF-03-E1-T4FT-BZ-ADJS-8030-800 |
| OP | ROUND STEEL POLE, 6" SHAFT SIZE, 15'-0" HEIGHT, SQUARE BASE, DARK BRONZE FINISH C/W 3-1/2" POLE TOP MOUNTING TENON AND STEEL POLE TOP MOUNTING BRACKET (2 STUBS AT 180°) | EATON RSS-6-A-15-S-F-3-2 C/W 101-A23 |
| PB | INTERIOR PUSHBUTTON LIGHT CONTROL MOUNTED ON WALL C/W LAMACOID LABEL. PUSHBUTTON TO BE MOMENTARY CONTACT, GREEN MUSHROOM HEAD. (SEE NOTE 5). | EATON C/W STAINLESS STEEL COVER PLATE |
| PB EXT | EXTERIOR PUSHBUTTON LIGHT CONTROL MOUNTED ON 8" X 8" POST C/W LAMACOID LABEL. SINGLE HOLE PUSHBUTTON ENCLOSURE C/W 30mm MOMENTARY CONTACT PUSHBUTTON, WATERTIGHT / OIL TIGHT, CORROSION RESISTANT, NEMA 4X RATED, GREEN MUSHROOM HEAD. (SEE NOTE 4). | HAMMOND PJ 744 P221 EATON PUSHBUTTON |

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titre du projet

Ontario

PUKASKWA NATIONAL PARK
ADMINISTRATION BUILDING
REPAIR AND UPGRADES PHASE 2

drawing title
titre du dessin
EXTERIOR LIGHTING PLAN

drawn by
dessiné par
LMT *LMT For LMT*

designed by
conc par
KJW *KJW*

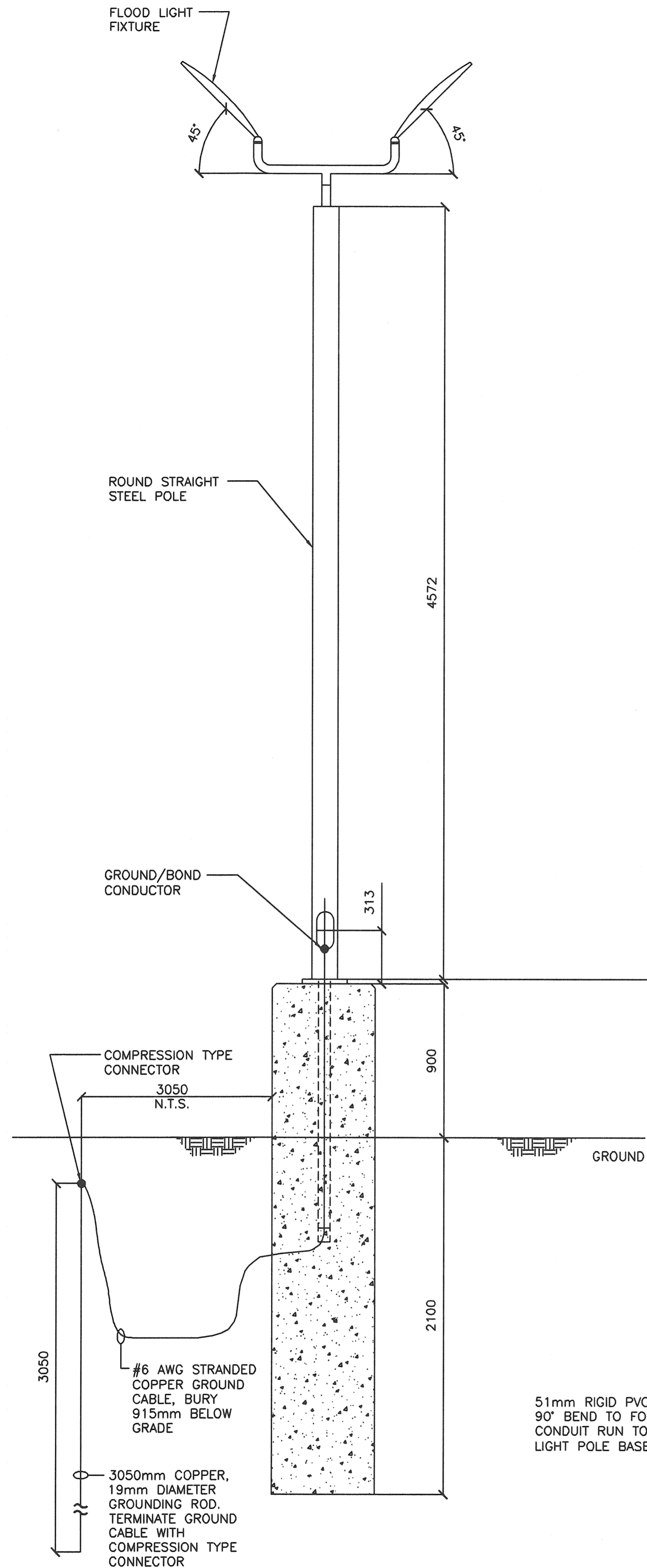
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approuvé par
TJA *TJA*

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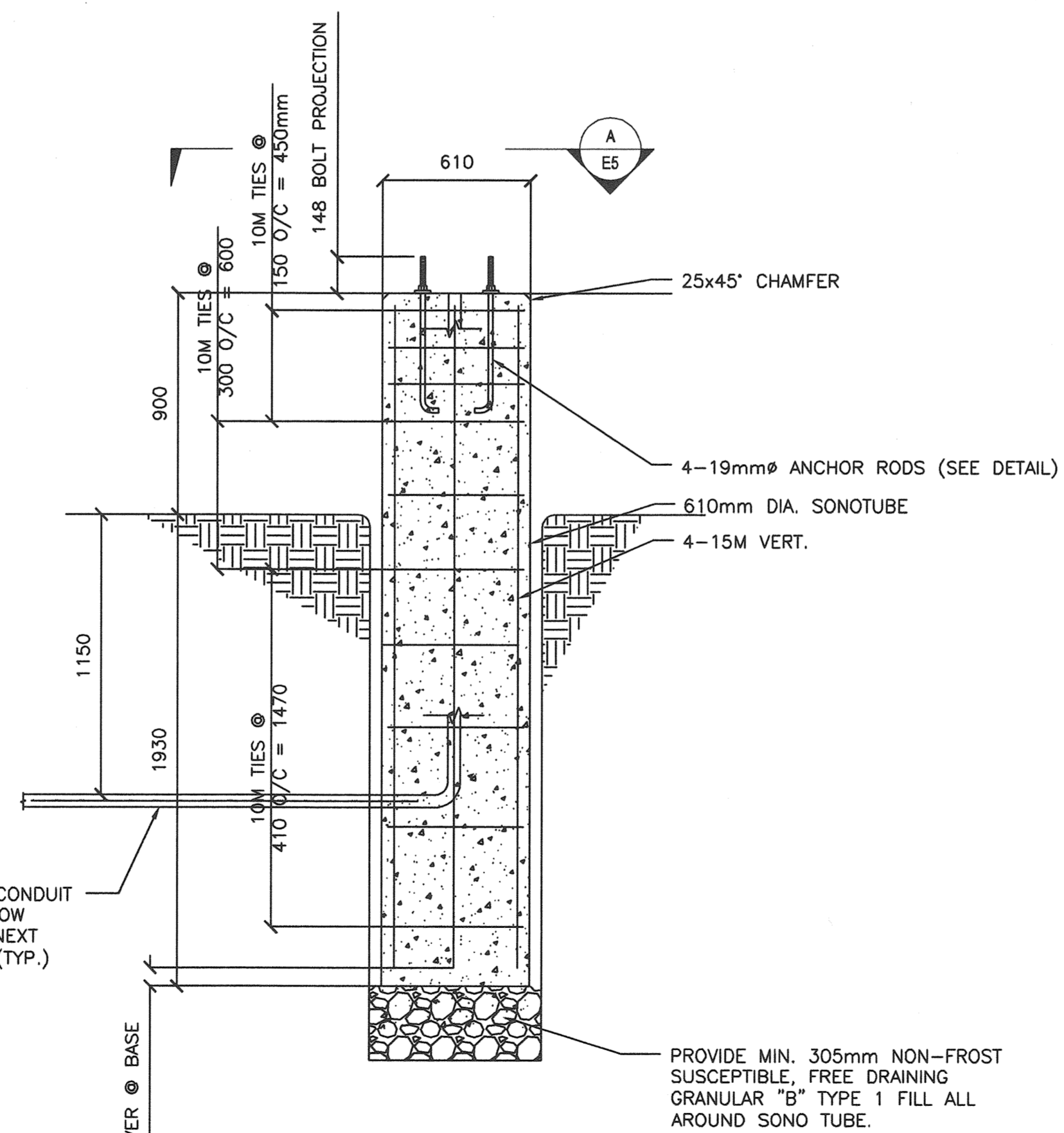
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151-06165-06

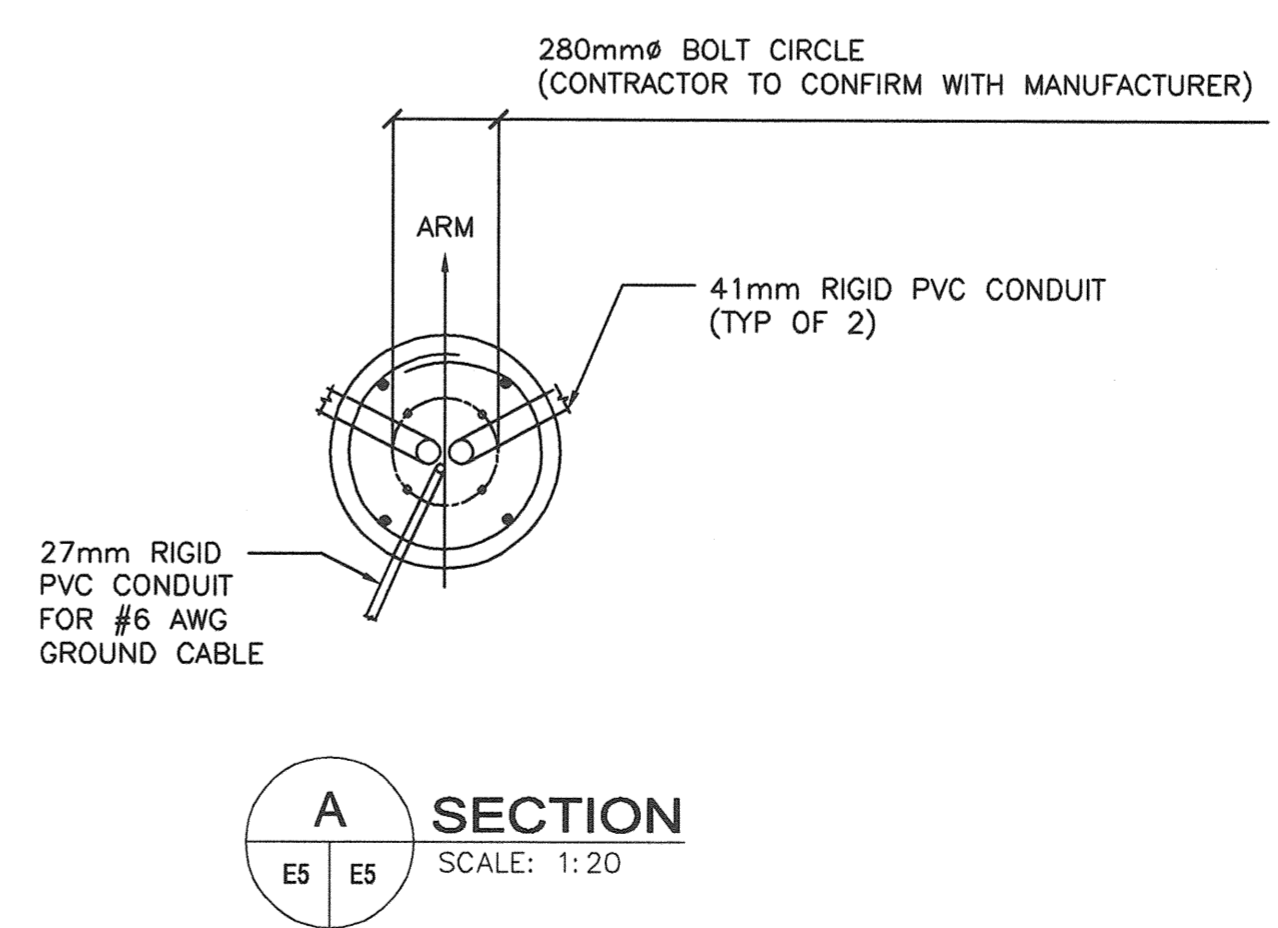
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E4



LIGHT POLE (TYP)
SCALE: 1:20



LIGHT POLE BASE - DETAIL 1
SCALE: 1:20



LIGHTING DETAIL NOTES

GENERAL:

- ALL SUB-GRADE CABLING TO BE TECK 90 OR EQUIVALENT. NO CONDUIT TO BE USED BELOW GRADE. NO EXCEPTION.

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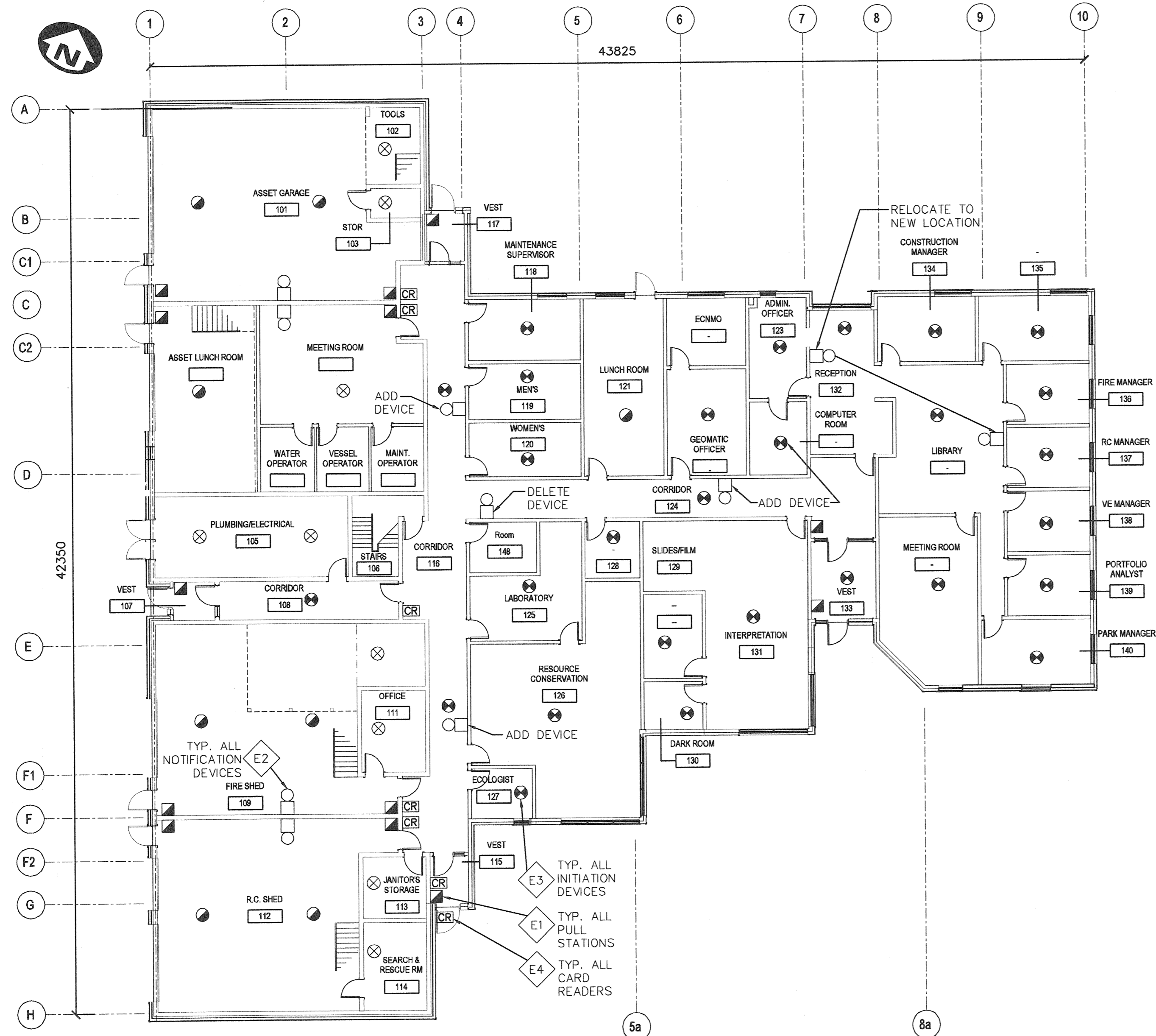
drawing title / titre du dessin: LIGHTING DETAILS

drawn by / dessiné par: LMT For LMT
designed by / conçu par: KJW KJW
approved by / approuvé par: TJA
tender soumission: TENDER project manager / administrateur de projets

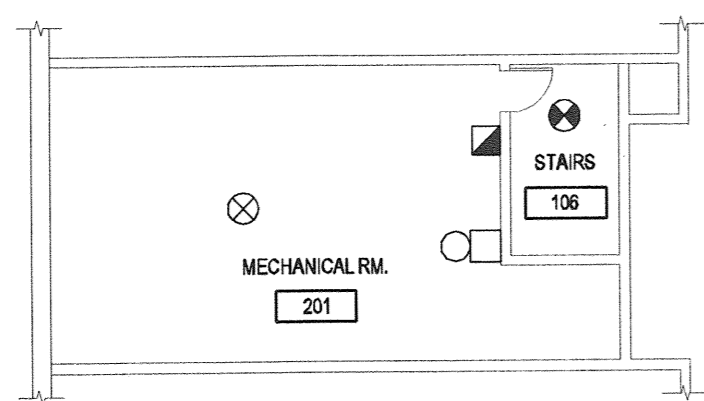
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project no. / no. du projet: 151-06165-06

drawing no. / dessiné no.: E5



LIFE SAFETY PLAN
SCALE: 1:150



LIFE SAFETY MECH. RM. / MEZZANINE PLAN
SCALE: 1:150

LIFE SAFETY PLAN NOTES

GENERAL:

- CONTRACTOR TO COORDINATE WITH PARKS CANADA AGENCY (PCA) TO ACHIEVE A 4-ZONE AUTOMATED DIRECT CALLOUT TO THE LOCAL FIRE DEPARTMENT AND MONITORING COMPANY.
- CONTRACTOR TO VERIFY ALL SPECIFICATIONS AND PRODUCTS TO CONFIRM OPERATION AND INSTALLATION COMPATIBILITY.
- E1 CONTRACTOR TO SUPPLY AND REPLACE EXISTING PULL STATION WITH NEW PULL STATION AS SPECIFIED C/W TAMPER-PROOF COVER. RELOCATE SIGNAGE NEXT TO PULL STATIONS TO MAKE SPACE FOR TAMPER-PROOF COVER.
- E2 CONTRACTOR TO SUPPLY AND REPLACE ALL EXISTING FIRE ALARM NOTIFICATION BELLS WITH NEW HORN/STROBE COMBINATION NOTIFICATION DEVICES AS SPECIFIED. REFER TO LIFE SAFETY PLAN FOR ADDITIONAL SCOPE OF WORK. STROBE SYNCHRONIZATION MODULES TO BE ADDED TO FACP AS REQUIRED. CONTRACTOR TO CONFIRM AMPACITY IS AVAILABLE IN NOTIFICATION CIRCUIT. ALL NEW HORN/STROBE DEVICES AND CABLING TO BE RECESSED.
- E3 CONTRACTOR TO SUPPLY AND REPLACE EXISTING FIRE SPOT DETECTORS WITH NEW HEAT/SMOKE CONVENTIONAL DETECTORS AS SPECIFIED. REFER TO LIFE SAFETY PLAN FOR ADDITIONAL SCOPE OF WORK.
- E4 CONTRACTOR TO DE-COMMISSION AND REMOVE ACCESS CONTROL PANEL, CARD READERS AND ALL RELATED HARDWARE AND ASSOCIATED WIRING. REFER TO LIFE SAFETY PLAN FOR CARD READER LOCATIONS.

LIFE SAFETY SCHEDULE

| ITEM | DESCRIPTION | MANUF./CATALOG No. |
|------|------------------------------------------------------------------------------------------------------|-----------------------------------------|
| ⊗ | EXISTING CONVENTIONAL FIRE SPOT SMOKE DETECTOR | EXISTING |
| ⊗ | CONVENTIONAL PHOTOELECTRIC SPOT SMOKE DETECTOR | NOTIFIER C2W-BA |
| ⊗ | EXISTING SPOT SMOKE DETECTOR | EXISTING |
| ⊗ | CONVENTIONAL PHOTOELECTRIC/ THERMAL SPOT SMOKE DETECTOR | NOTIFIER C2WT-BA |
| ● | EXISTING HEAT DETECTOR | EXISTING |
| ● | CONVENTIONAL HEAT DETECTOR, 135°F FIXED TEMPERATURE AND RATE OF RISE | NOTIFIER 5451 C/W B401B |
| □ | EXISTING NOTIFICATION 6" BELL | EXISTING |
| □ | NOTIFICATION HORN/STROBE RED BILINGUAL DEVICE C/W RED WALL TRIM | NOTIFIER P2R-B1 C/W BBS-2A |
| ■ | EXISTING CONVENTIONAL INITIATING PULL STATION | EXISTING |
| ■ | CONVENTIONAL SINGLE STAGE RED BILINGUAL MANUAL PULL STATION. TO BE INSTALLED C/W TAMPER-PROOF COVER. | NOTIFIER N-MPS-SC C/W STL INC. STI-1200 |
| CR | EXISTING ACCESS CONTROL CARD READER | EXISTING |

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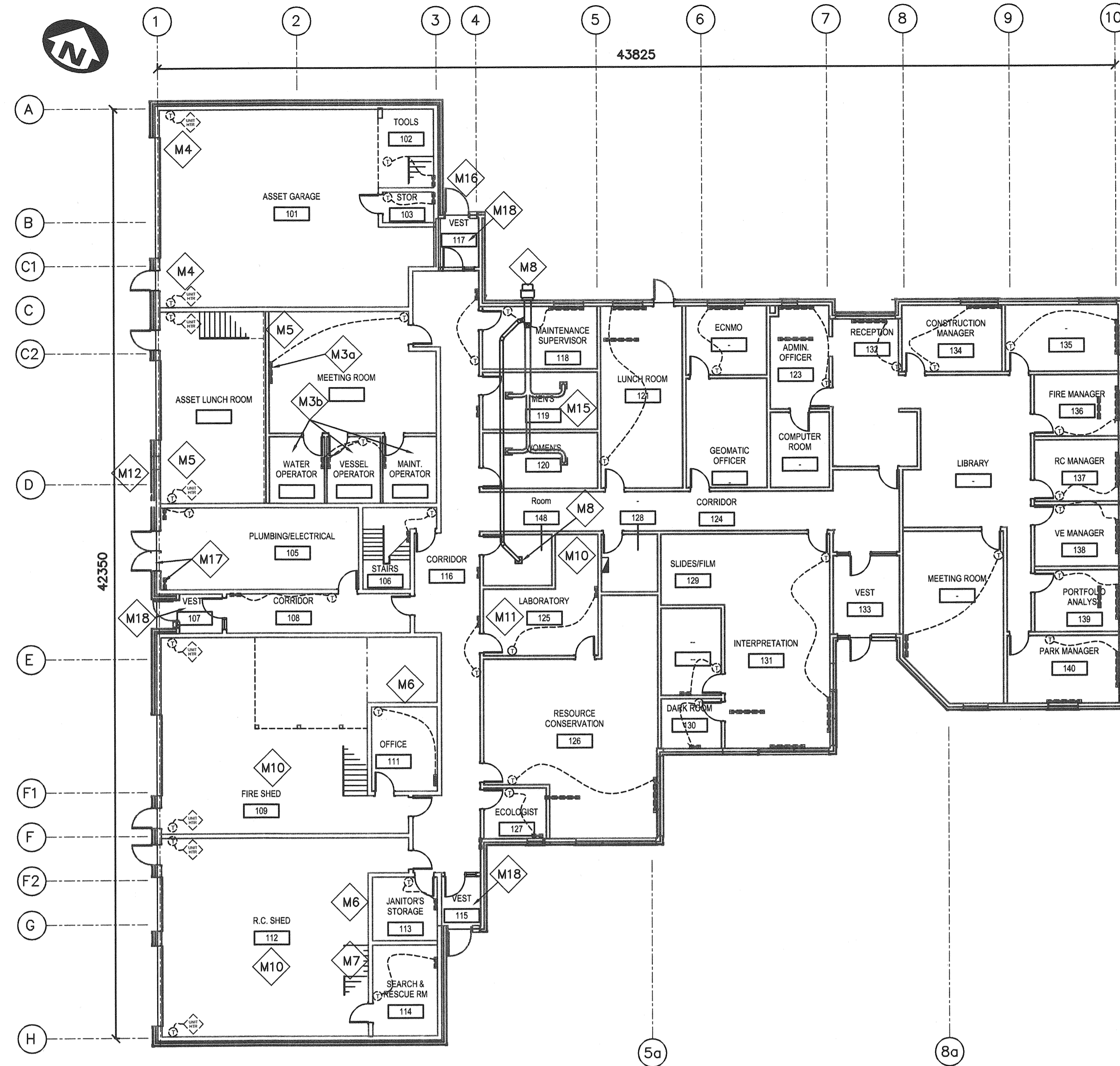
drawing title / titre du dessin: **LIFE SAFETY PLAN**

drawn by / dessiné par: LMT *[Signature]*
designed by / conçu par: KJW *[Signature]*
approved by / approuvé par: TJA *[Signature]*
tender soumission: TENDER project manager / administrateur de projets

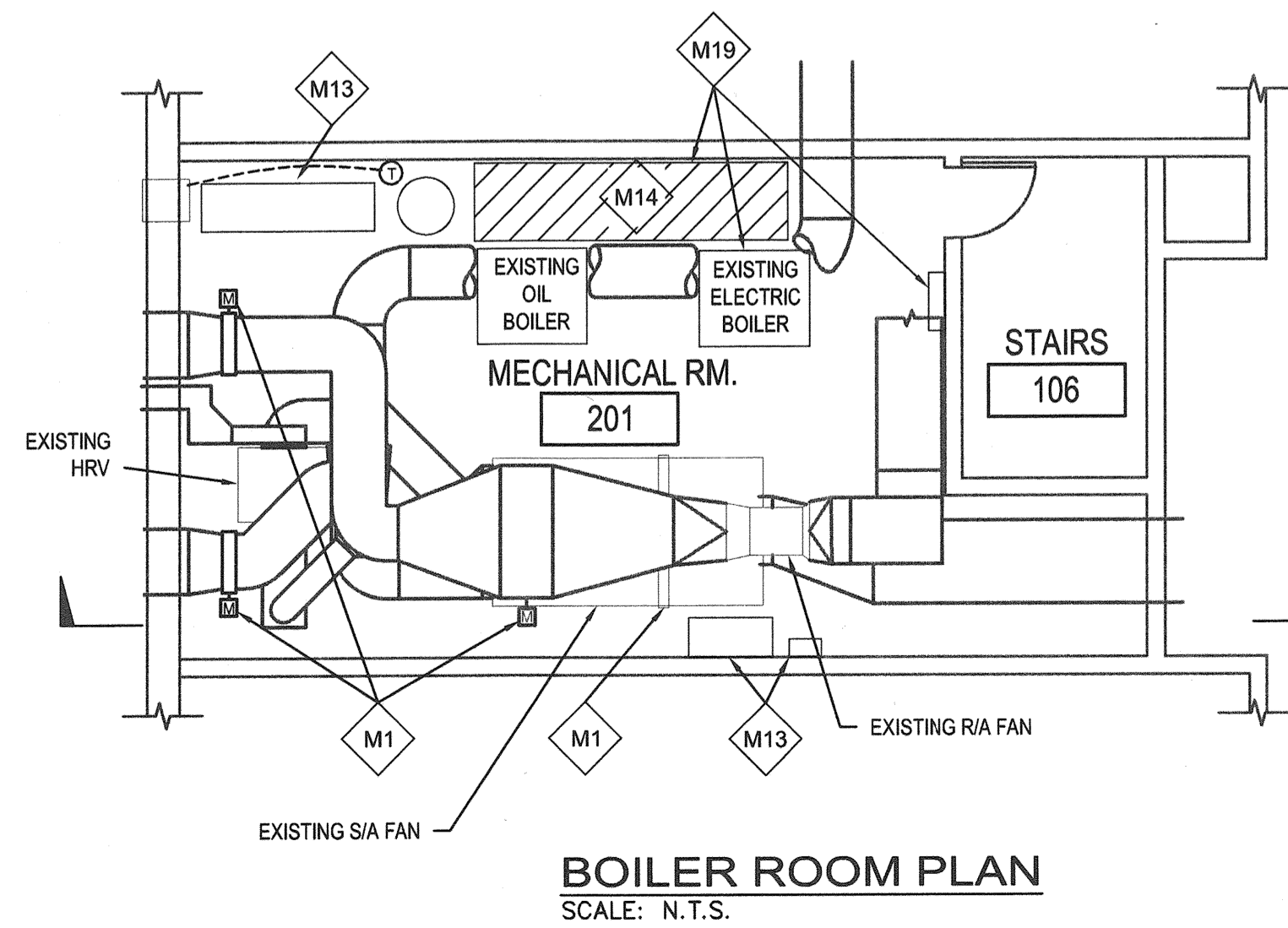
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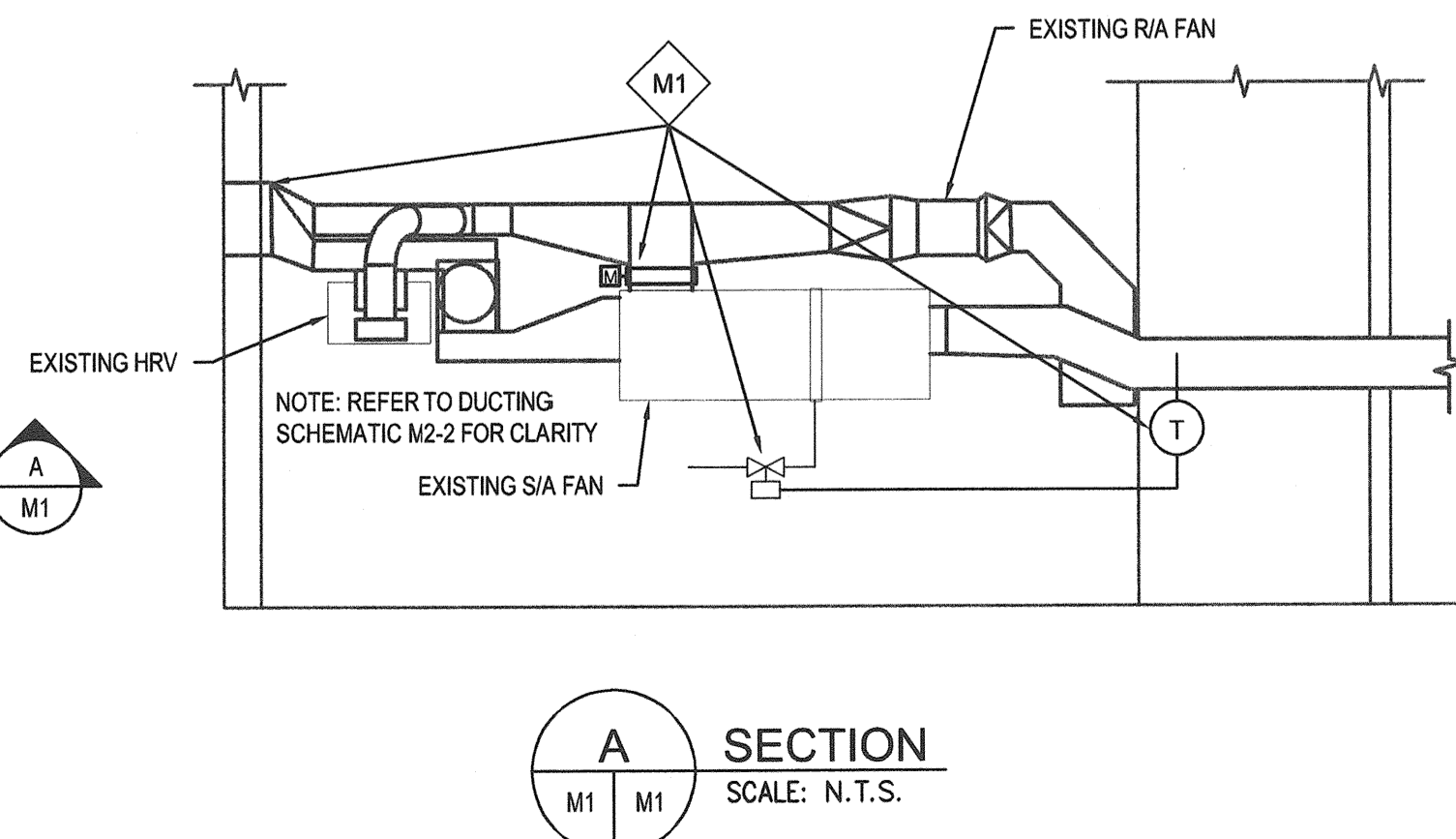
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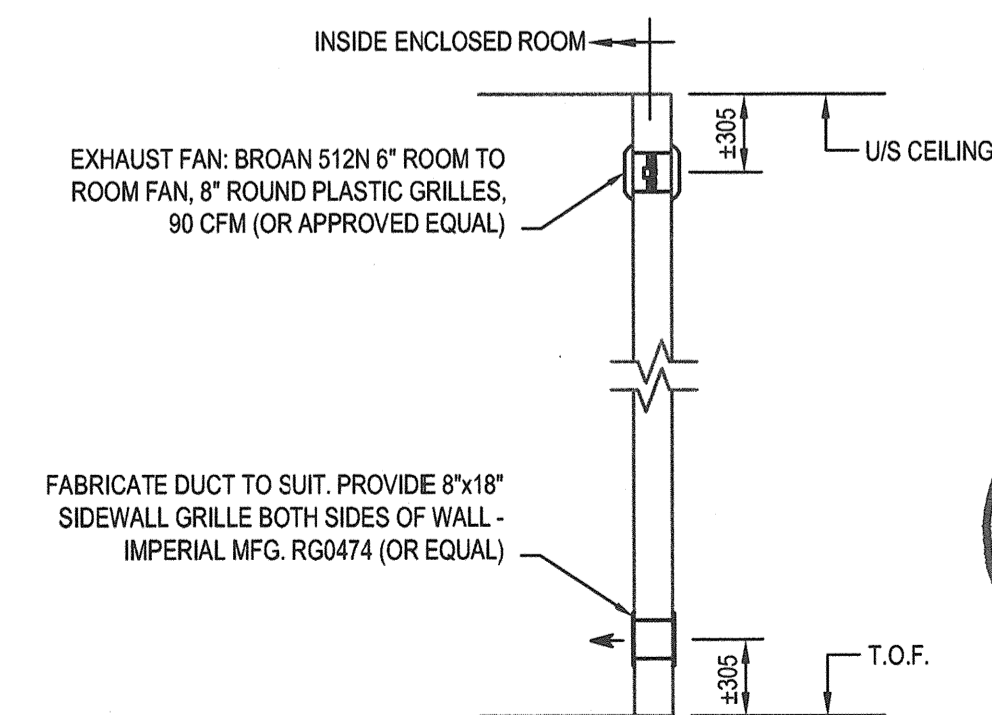
MAIN FLOOR PLAN
SCALE: 1:150



BOILER ROOM PLAN
SCALE: N.T.S.



A SECTION
SCALE: N.T.S.



DETAIL M1-1
SCALE: N.T.S.

MECHANICAL CONSTRUCTION PLAN NOTES

- M1 INSPECT AND REPLACE DAMPERS (IF REQUIRED). INSTALL NEW LOW VOLTAGE ACTUATORS ON DAMPERS. INSTALL NEW TEMPERATURE SENSOR AND TRANSMITTER IN S/A DUCT. REPLACE EXISTING GLYCOL COIL. INSTALL NEW LOW VOLTAGE MODULATING CONTROL VALVE IN COIL GLYCOL SUPPLY LINE. INSTALL NEW CIRCUIT SETTER BALANCING VALVE IN COIL GLYCOL RETURN LINE. INSTALL NEW CONTROL SYSTEM TO REGULATE S/A TEMPERATURE AT ADJUSTABLE SET POINT. NEW CONTROL VALVE MODULATES OPEN/CLOSED TO SATISFY S/A TEMP SENSOR. WHEN OUTDOOR TEMPERATURE IS BELOW 18°C DAMPERS MODULATE TO MINIMUM SET POINT. WHEN TEMPERATURE IS ABOVE 18°F DAMPERS MODULATE FULLY OPEN. ENSURE ALL DUCTING FROM WALL LOUVERS TO FAN AND HRV IS INSULATED. SEE SYSTEM SCHEMATIC - DETAIL M2-2.
- M2 BUILDING WIDE: INSPECT AND REPLACE FINNED TUBE RADIATOR AS REQUIRED. INSTALL NEW LOW VOLTAGE ELECTRIC CONTROL VALVE AND CIRCUIT SETTER BALANCING VALVE. REPLACE EXISTING THERMOSTAT WITH NEW LOW VOLTAGE UNIT TO SUIT NEW CONTROL VALVE. RE-BALANCE HYDRONIC SYSTEM TO SUIT.
- M3a INSTALL NEW FINNED TUBE RADIATOR (3400 BTU), CABINET, LOW VOLTAGE CONTROL VALVE AND CIRCUIT SETTER BALANCING VALVE. THERMOSTAT TO BE LOCATED IN MEETING ROOM BY LIGHT SWITCH.
- M3b INSTALL NEW FINNED TUBE RADIATOR (1000 BTU), CABINET, LOW VOLTAGE CONTROL VALVE AND CIRCUIT SETTER BALANCING VALVE. THERMOSTAT TO BE LOCATED IN OFFICE 2 BY LIGHT SWITCH.
- M4 INSTALL NEW CO SENSORS IN MECHANICS SHOP. SERVICE EXISTING FANS TO ENSURE RELIABLE OPERATION. INSTALL CONTROLLER TO OPERATE EXHAUST FAN AND S/A FAN TO PROVIDE MAKE-UP AIR WHEN EXHAUST FAN IS ENERGIZED.
- M5 REMOVE EXHAUST FAN AND DUCTING FROM CARPENTRY SHOP. REPAIR WALL PENETRATIONS TO MATCH EXISTING. ENSURE EXTERIOR WALL PENETRATION IS WEATHER TIGHT.
- M6 ADD EXHAUST FAN AND WALL TRANSFER GRILL TO ENCLOSED STORAGE ROOMS IN SHOPS. SEE DETAIL M1-1
- M7 ADD EXHAUST FAN AND WALL TRANSFER GRILL TO S.A.R. ROOM. SEE DETAIL M1-1
- M8 CHANGE EXHAUST FAN TO INCREASE FLOW AND TIE IN EXHAUST FROM ACCESSIBLE WASHROOM. SEE DETAIL M2-3
- M9 BUILDING WIDE: RE-BALANCE ALL AIR SYSTEMS (S/A, R/A, E/A) AT COMPLETION OF ALL RENOVATION WORK
- M10 PROVIDE SEPARATE QUOTE TO SUPPLY AND INSTALL DUCTLESS FUME HOOD. SENTRY AIR SYSTEMS 24" WIDE HIGH FLOW HOOD - MODEL #22-324-DCH OR APPROVED EQUAL.
- M11 REPLACE WATER SUPPLY PLUMBING FOR LAB SINK BACK TO HEADERS AND ENSURE NO CARBON STEEL OR CAST IRON.
- M12 REMOVE DUST COLLECTOR AND RELATED DUCTING, SUPPORT STEEL AND ELECTRICAL. REPAIR EXTERIOR WALL AS REQUIRED AND ENSURE WEATHER TIGHT.
- M13 REMOVE OLD COMPRESSOR AND ANY RELATED ELECTRICAL AND CONTROL AS REQUIRED. ALL EQUIPMENT REMOVED TO BE RETURNED TO PCA.
- M14 REMOVE OLD EXPANSION TANK ABOVE BOILERS (NOW REDUNDANT)
- M15 REMOVE FLUSH TANKS, REDUNDANT EQUIPMENT AND PLUMBING FROM CEILING SPACE.
- M16 REMOVE REDUNDANT EXTERIOR GRILLES. REPAIR EXTERIOR WALL AND ENSURE WEATHER TIGHT. COORDINATE WORK WITH SIDING CONTRACTOR.
- M17 RELOCATE AIR VENT FROM DOOR TO WALL AS NOTED. PROVIDE AIR DAM AT FLOOR.
- M18 REPLACE EXISTING VESTIBULE CEILING MOUNTED FAN FORCED CONVERTOR CABINETS IN KIND AND RELOCATE TO FLOOR LEVEL.
- M19 REPLACE EXISTING ELECTRIC BOILER WITH NEW OIL FIRED BOILER. EXISTING ELECTRIC BOILER, RELATED WIRING AND CONTROL TO BE COMPLETELY REMOVED. NEW BOILER SHALL BE BURNHAM V9A c/w BECKET BURNER TO MATCH EXISTING. CONTRACTOR TO PROVIDE NEW OIL SUPPLY/ RETURN LINES AS REQUIRED AND PROVIDE NEW COMBINED BOILER BREECHING AND CHIMNEY. BOILER TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND IN CONJUNCTION WITH CAN/CSA B139 AND TSSA GUIDELINES. ALL EXISTING HYDRONIC PUMPS TO BE REMOVED AND RETURNED TO PCA. NEW PIPING AND PUMPS TO BE INSTALLED PER HYDRONIC SYSTEM SCHEMATIC - DETAIL M2-1

GENERAL NOTES:

1. COORDINATE ALL EXTERIOR MECHANICAL WORK WITH SIDING CONTRACTOR. ENSURE ALL MECHANICAL PENETRATION WORK IS COMPLETED PRIOR TO SIDING BEING REPLACED.
2. MECHANICAL CONTRACTOR TO REMOVE MECHANICAL ITEMS (GRILLES, LOUVRES, ETC) PRIOR TO BUILDING EXTERIOR UPGRADES AND RE-INSTALL, OR REPLACE AS REQUIRED, AFTER NEW EXTERIOR SIDING IS INSTALLED.
3. EXISTING EXTERIOR RAIN WATER LEADERS (2 LOCATIONS) TO BE EXTENDED AS REQUIRED TO SUIT NEW EXTERIOR FINISH OF BUILDING. EXISTING BRONZE LEADER NOZZLES TO BE SALVAGED AND RE-INSTALLED.
4. APPROXIMATE LOCATIONS OF EXISTING THERMOSTATS ILLUSTRATED. CONTRACTOR TO LOCATE NEW THERMOSTATS USING INDUSTRY BEST PRACTICE GUIDELINES.
5. FOR NEW EQUIPMENT SPECIFICATIONS AND SEQUENCES OF OPERATION SEE DRAWING M2.
6. CONTRACTOR TO COORDINATE WITH ALL TRADES TO COMPLETE THE WORK WITHOUT INTERRUPTING PARKS CANADA OPERATIONS.
7. AS PER THE SCOPE OF WORK OUTLINED, THE EXTERIOR ENVELOPE OF THE BUILDING IS TO BE EXTENDED APPROXIMATELY 6". THIS WILL REQUIRE EXTERIOR PENETRATIONS BE EXTENDED (I.E. ELECTRICAL WIRING, CONDUIT/PIPING, DUCT WORK, ETC.) ANY EXTERIOR RUN PIPING/CONDUIT IS TO BE SUPPORTED AND CONCEALED IN THE BUILDING ENVELOPE, ANY PULL BOXES, ELBOWS, ACCESS POINTS TO BE ACCESSIBLE VIA INSULATED ACCESS DOOR.
8. ANY EXTERIOR EQUIPMENT TO BE REMOVED /RE-INSTALLED AS REQUIRED DURING THE SCOPE OF WORK. CONTRACTOR TO ENSURE ALL DUCTWORK IS SEALED. REFER TO PROJECT SPECIFICATIONS. PROVIDE SEPARATE PRICING FOR DUCTWORK PRESSURE TESTING.
- 9.

Public Works and
Government Services Canada
Architectural and Engineering Services
Ontario Region
Travaux publics et
Services gouvernementaux Canada
Services d'architecture et de génie
Région de l'Ontario



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Do not scale drawings.
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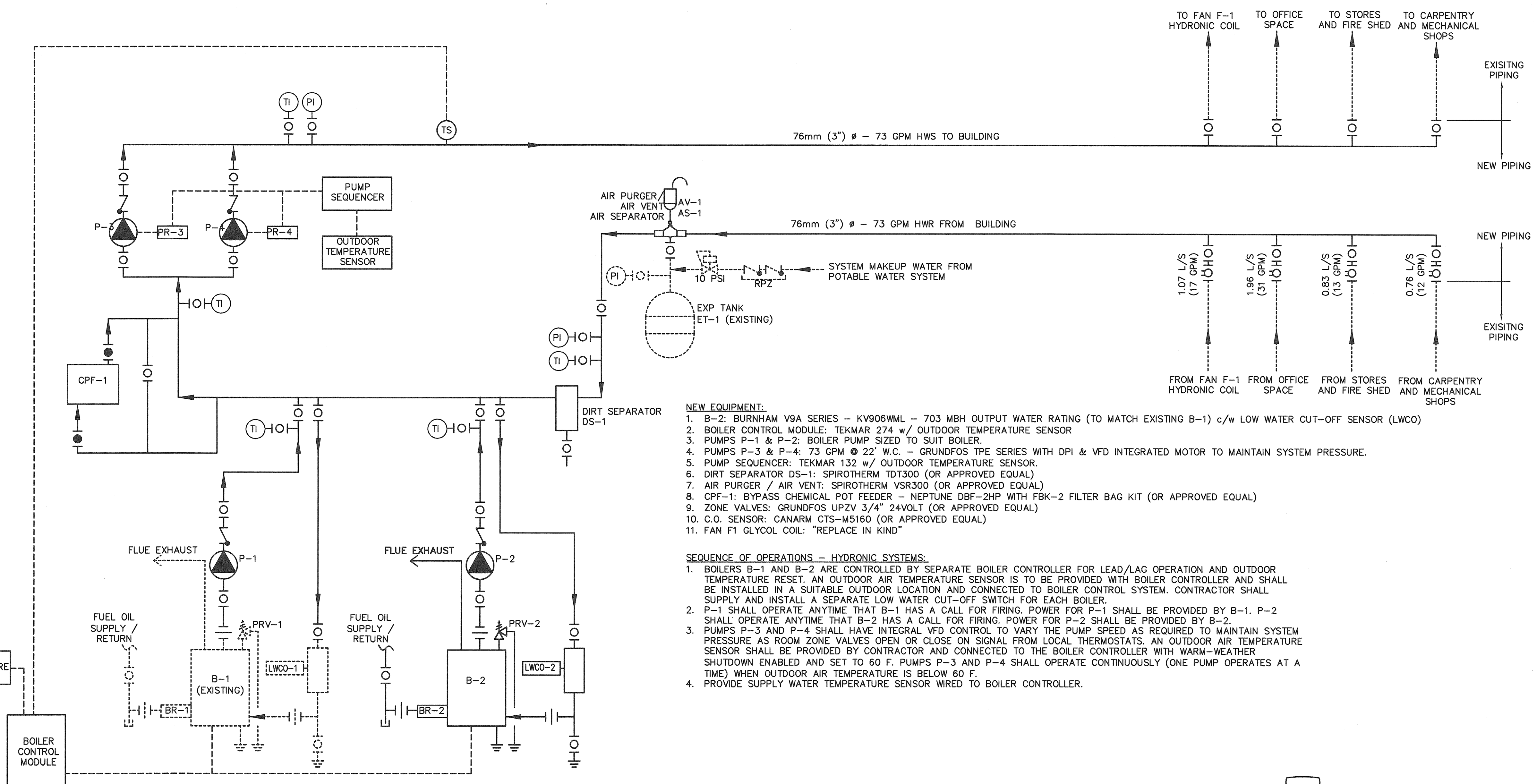
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| A B C | A Detail No. |
| | B No. du détail |
| | C drawing no. - where detail required dessin no. - où détail exigé |

project title
titre du projet
**PUKASKWA NATIONAL PARK
ADMINISTRATION BUILDING
REPAIR AND UPGRADES PHASE 2**
Ontario

drawing title
titre du dessin
**MECHANICAL
RENOVATION PLAN AND NOTES**

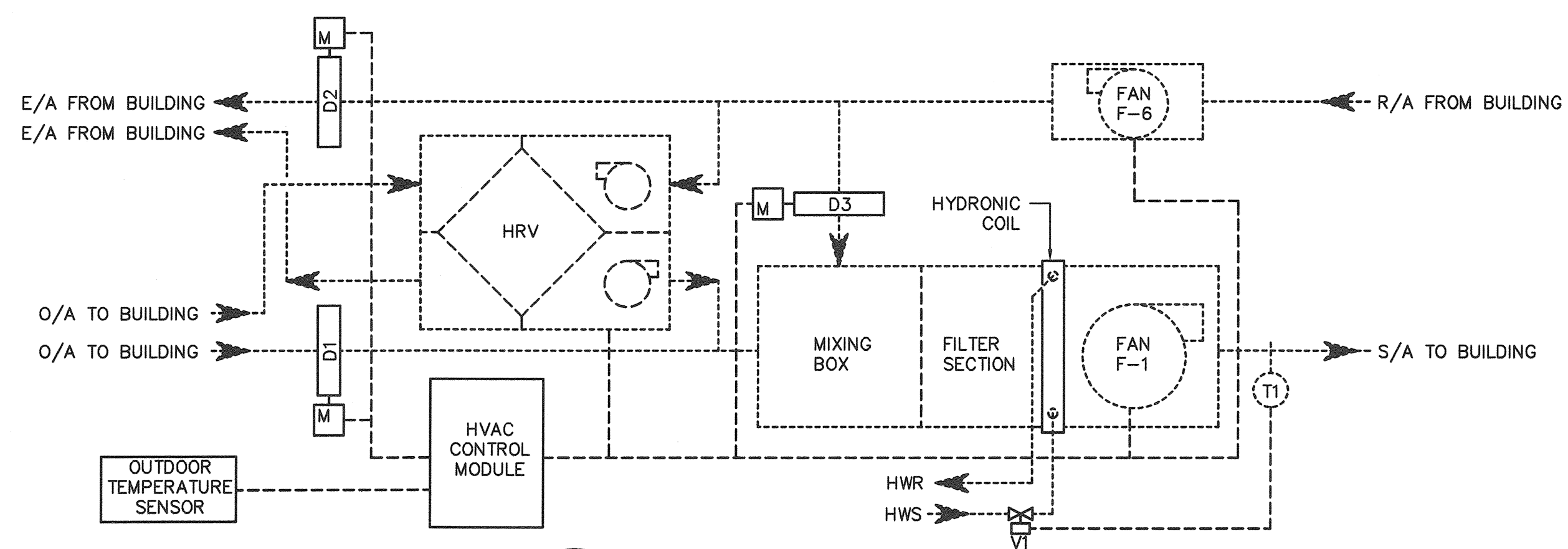
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| drawn by dessiné par | SvT | |
| designed by conçu par | CPB | |
| approved by approuvé par | TJA | |
| tender soumission | TENDER | project manager administrateur de projets |
| project date date du projet | 2017/01/27 | |
| project no. no. du projet | 151-06165-06 | |
| drawing no. dessiné no. | M1 | |





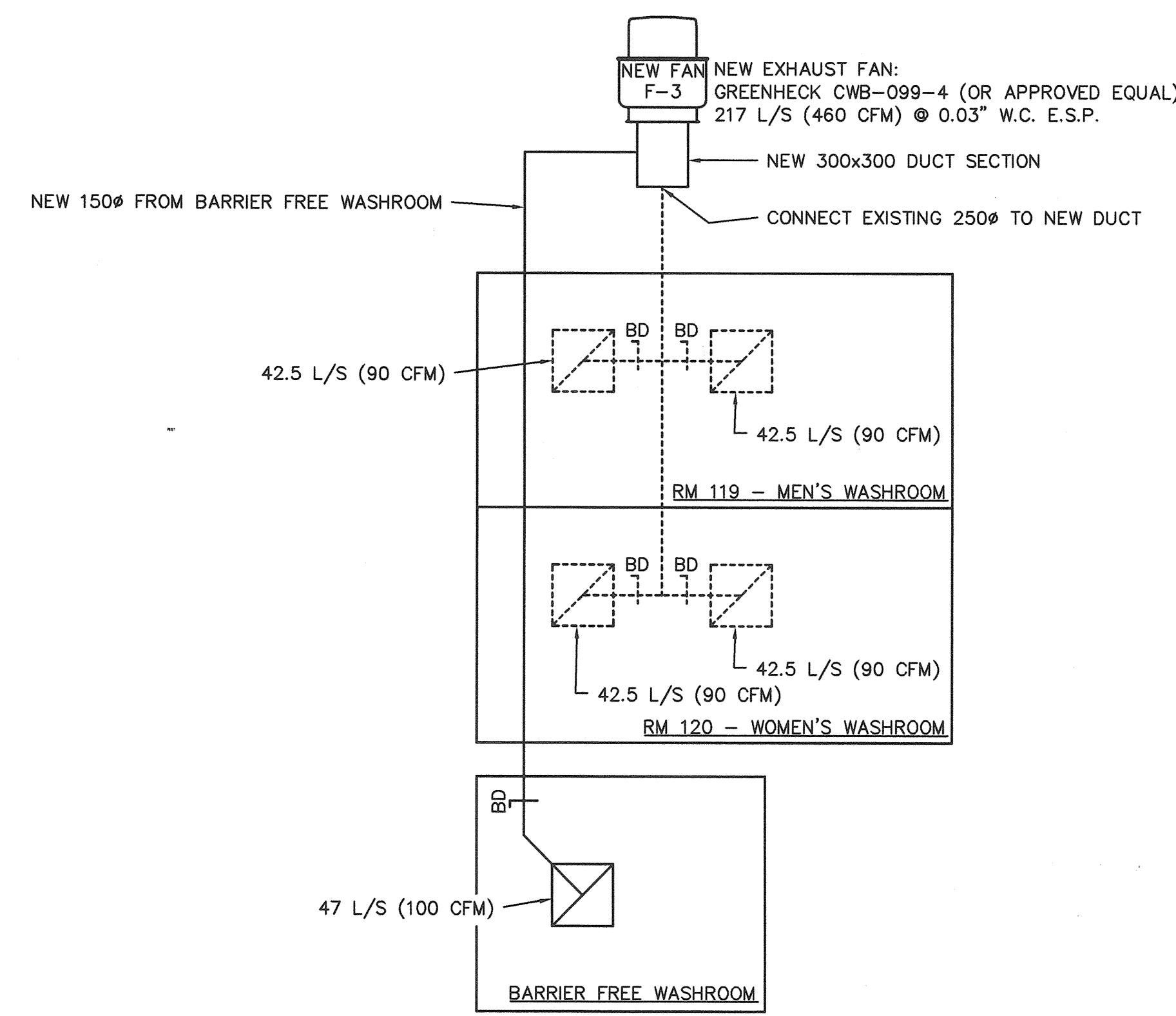
- NEW EQUIPMENT:**
- B-2: BURNHAM V9A SERIES - KV906WML - 703 MBH OUTPUT WATER RATING (TO MATCH EXISTING B-1) c/w LOW WATER CUT-OFF SENSOR (LWCO)
 - BOILER CONTROL MODULE: TEKMAR 274 w/ OUTDOOR TEMPERATURE SENSOR
 - PUMPS P-1 & P-2: BOILER PUMP SIZED TO SUIT BOILER
 - PUMPS P-3 & P-4: 73 GPM @ 22' W.C. - GRUNDFOS TPE SERIES WITH DPI & VFD INTEGRATED MOTOR TO MAINTAIN SYSTEM PRESSURE.
 - PUMP SEQUENCER: TEKMAR 132 w/ OUTDOOR TEMPERATURE SENSOR.
 - DIRT SEPARATOR DS-1: SPIROTHERM DT300 (OR APPROVED EQUAL)
 - AIR PURGER / AIR VENT: SPIROTHERM VSR300 (OR APPROVED EQUAL)
 - CPF-1: BYPASS CHEMICAL POT FEEDER - NEPTUNE DBF-2HP WITH FBK-2 FILTER BAG KIT (OR APPROVED EQUAL)
 - ZONE VALVES: GRUNDFOS UPZV 3/4" 24VOLT (OR APPROVED EQUAL)
 - C.O. SENSOR: CANARM CTS-M5160 (OR APPROVED EQUAL)
 - FAN F1 GLYCOL COIL: "REPLACE IN KIND"
- SEQUENCE OF OPERATIONS - HYDRONIC SYSTEMS:**
- BOILERS B-1 AND B-2 ARE CONTROLLED BY SEPARATE BOILER CONTROLLER FOR LEAD/LAG OPERATION AND OUTDOOR TEMPERATURE RESET. AN OUTDOOR AIR TEMPERATURE SENSOR IS TO BE PROVIDED WITH BOILER CONTROLLER AND SHALL BE INSTALLED IN A SUITABLE OUTDOOR LOCATION AND CONNECTED TO BOILER CONTROL SYSTEM. CONTRACTOR SHALL SUPPLY AND INSTALL A SEPARATE LOW WATER CUT-OFF SWITCH FOR EACH BOILER.
 - P-1 SHALL OPERATE ANYTIME THAT B-1 HAS A CALL FOR FIRING. POWER FOR P-1 SHALL BE PROVIDED BY B-1. P-2 SHALL OPERATE ANYTIME THAT B-2 HAS A CALL FOR FIRING. POWER FOR P-2 SHALL BE PROVIDED BY B-2.
 - PUMPS P-3 AND P-4 SHALL HAVE INTEGRAL VFD CONTROL TO VARY THE PUMP SPEED AS REQUIRED TO MAINTAIN SYSTEM PRESSURE AS ROOM ZONE VALVES OPEN OR CLOSE ON SIGNAL FROM LOCAL THERMOSTATS. AN OUTDOOR AIR TEMPERATURE SENSOR SHALL BE PROVIDED BY CONTRACTOR AND CONNECTED TO THE BOILER CONTROLLER WITH WARM-WEATHER SHUTDOWN ENABLED AND SET TO 60 F. PUMPS P-3 AND P-4 SHALL OPERATE CONTINUOUSLY (ONE PUMP OPERATES AT A TIME) WHEN OUTDOOR AIR TEMPERATURE IS BELOW 60 F.
 - PROVIDE SUPPLY WATER TEMPERATURE SENSOR WIRED TO BOILER CONTROLLER.

M2-1 HYDRONIC SYSTEM SCHEMATIC
 SCALE: N.T.S.



M2-2 FAN F-1 / F-6 SYSTEM SCHEMATIC
 SCALE: N.T.S.

- SEQUENCE OF OPERATIONS - FAN F-1/F-6 SYSTEM:**
- FANS F-1 & F-6 TO OPERATE CONTINUOUSLY WHILE BUILDING IS OCCUPIED.
 - WHEN OUTDOOR TEMPERATURE IS ABOVE 15°C (59°F): DAMPER D1 & D2 OPEN FULLY AND DAMPER D3 MODULATES FULLY CLOSED. HRV REMAINS IN STANDBY.
 - WHEN OUTDOOR TEMPERATURE IS BELOW 15°C (59°F): DAMPER D1 & D2 MODULATE FULLY CLOSED AND DAMPER D3 OPENS FULLY. HRV IS ENERGIZED TO PROVIDE MINIMUM OUTDOOR AIR REQUIREMENTS FOR BUILDING AND PROTECT HEATING COIL FROM FREEZING.
 - WHEN OUTDOOR TEMPERATURE IS BELOW HEATING SYSTEM SET-POINT VALVE V1 MODULATES TO MAINTAIN S/A TEMPERATURE BASED ON SET-POINT OF TEMPERATURE SENSOR T1.



M2-3 BATHROOM EXHAUST SYSTEM MODIFICATION
 SCALE: N.T.S.

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M2

