

# North End Water Pollution Control Centre Lab Renovation

Winnipeg, Manitoba

ARCHITECT

LM Architectural Group

STRUCTURAL CONSULTANT

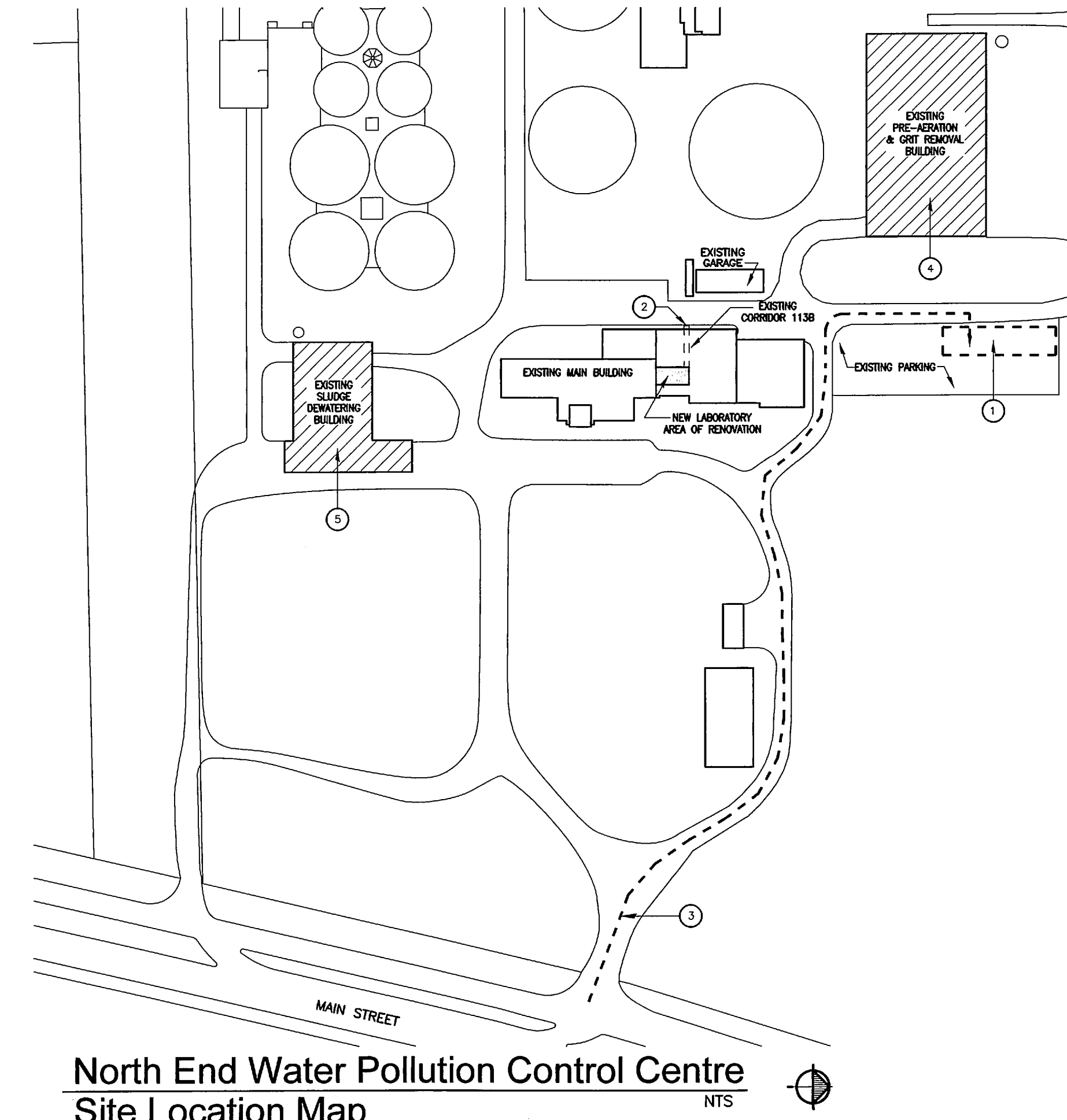
CROSIER KILGOUR AND PARTNERS LIMITED

MECHANICAL CONSULTANT

ALLIANCE ENGINEERING SERVICES

ELECTRICAL CONSULTANT

MCW/AGE CONSULTING PROFESSIONAL ENGINEERS



## MASTER ABBREVIATIONS LIST

|               |  |       |                           |             |  |
|---------------|--|-------|---------------------------|-------------|--|
| A             | AND  | FF    | FORCE FLOW UNIT           | O.H.        | OVERHEAD                                 |
| AT            | AT CENTERLINE                                    | FHC   | FIRE HOSE CABINET         | OSIC        | ORIG. SUPPLIED, IN CONTRACT INSTALLATION |
| CL            | CL   | FIN.  | FINISH(ED)                | OX          | OXYGEN                                   |
| Ø             | DIAMETER   | F.L.  | FLOOR                     |             |  |
| #             | NUMBER   | F.S.  | FULL SIZE                 |             |  |
| ACS           | ACOUSTIC CEILING SYSTEM                          | G     | NATURAL GAS               | PL/LAM (PL) | PLASTIC LAMINATE                         |
| ADJ.          | ADJUSTABLE                                       | GA.   | GALV.                     | PLB         | PLUMBING                                 |
| ADO           | AUTOMATIC DOOR OPERATOR                          | G.E.  | GYP/SUM BOARD             | PLP         | PLASTIC LAMINATE PANNELLING              |
| AF.F.         | AIR/FINISH FLOOR                                 | GO    | GLOVE DISPENSER (NIC)     | PREPAB      | PREPARATED                               |
| ALUM.         | ALUMINUM   | GL    | GLAZING                   | PREFIN.     | PREFINISHED                              |
| ANOD.         | ANODIZED   | GRT   | GROUT                     | PRD.        | PAINTED                                  |
| APPROX.       | APPROXIMATE                                      | GRR   | GRAIN DIRECTION           | R.T.        | ROOF DRAIN                               |
| BD.           | BOARD  | H.    | HOLE                      | REIN.       | REINFORCING, REINFORCED                  |
| BGL           | BUMPER GUARD, LOWER                              | H.B   | HOLLOW METAL              | REQ'D.      | REQUIRED                                 |
| BGU           | BUMPER GUARD, UPPER                              | H.H.  | HORIZONTAL                | REV.        | REVISION OR REVISION                     |
| BLDG.         | BUILDING   | H.S.  | HOLLOW STEEL SECTION      | R.O.        | ROUGH OPENING                            |
| BSM.          | BOTH SIDES                                       | H.W.  | HOT WATER TANK            | R.V.        | ROUGH OPENING                            |
| B.S.          | BOTH SIDES                                       | H.    | HOLE                      | R.W.        | RAIN WATER LEADER                        |
| B.SMT.        | BASIN  | H.    | HOLE                      | R.W.        | RAIN WATER LEADER                        |
| CA            | COMPRESSED AIR                                   | IC    | IN CONTRACT               | S.M.        | SHIM                                     |
| CG            | CORNER GUARD                                     | IC    | IN CONTRACT COORDINATION  | S/M         | SQUARE                                   |
| CJ            | CONTROL JOINT                                    | I.D.  | INSIDE DIAMETER           | S.S.        | STAINLESS STEEL                          |
| C.L.          | CEILING  | INSL. | INSULATION                | S.S. (SS)   | STAINLESS STEEL                          |
| C/M           | CEILING MOUNTED                                  | INT.  | INTERIOR                  | ST.         | STEEL                                    |
| CCL           | COLUMN   | JAN.  | JANITOR                   | STRUC.      | STRUCTURAL                               |
| CONC.         | CONCRETE   | KB    | KEYBOARD TRAY (NIC)       | SUSP.       | SUSPENDED                                |
| CONSTR.       | CONSTRUCTION                                     | LAV.  | LAVATORY                  | T & G       | TONGUE AND GROOVE                        |
| CONT.         | CONTINUOUS                                       | LIN   | LINOLEUM                  | TB          | TACK BOARD                               |
| CP            | CERAMIC TILE                                     | MP    | MOUNTING BOARD & HOOPS    | TL          | TACK LIGHT                               |
| CT OR C.T.    | COMPLETE WITH                                    | MECH. | MEDIUM DENSITY FIBERBOARD | TS          | TACK SURFACE                             |
| CUM           | COMPLETE WITH                                    | M.F.  | MOUNTING BOARD & HOOPS    | T.S.        | TACK STRIP                               |
| C/W           | COMPLETE WITH                                    | M.S.  | MOUNTING BOARD & HOOPS    | TYP.        | TYPICAL                                  |
| DF            | DRINKING FOUNTAIN                                | M.S.  | MOUNTING BOARD & HOOPS    | U/C         | UNDER COUNTER                            |
| DIA.          | DIAMETER   | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| DN            | DOWN   | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| DWG.          | DRAWING  | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| E OR ELECT.   | ELECTRICAL                                       | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| ELEV.         | ELEVATION  | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| EP            | ELECTRICAL PANEL                                 | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| EPB           | EMERGENCY PANIC BUTTON                           | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| EQ.           | EQUIPMENT RAIL SYSTEM                            | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| ES            | EXPOSED STRUCTURE                                | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| ESU           | EXPOSED STRUCTURE UNFINISHED                     | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| EX. or EXIST. | EXISTING   | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| EXT.          | EXTERIOR   | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| FD            | FLOOR DRAIN                                      | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |
| FE (-S)(-F)   | FIRE EXTINGUISHER(SEM-RECESSED) (FULLY-RECESSED) | M.S.  | MOUNTING BOARD & HOOPS    | U/L         | UNDER LAB                                |

## REFERENCE SYMBOLS

|                      |  |  |
|----------------------|--|--|
| DETAIL:              |  | Detail number  |
|                      |  | Drawing where detail is initially referenced from          |
| WALL SECTION:        |  | Wall section number  |
|                      |  | Drawing where section is initially referenced from         |
| INTERIOR ELEVATIONS: |  | Interior elevation numbers                                 |
|                      |  | Detail located in Project Manual Architectural Section AP2 |
|                      |  | Drawing where detail is initially referenced from          |

\* When REFERENCE SYMBOL includes the letters 'AP' or is referenced as AP2.5, it indicates the detail is located in the PROJECT MANUAL.

## List of Drawings

### Architectural

|    |  |
|----|--|
| A0 | TITLE SHEET  |
| A1 | DEMOLITION/RENOVATION/REFLECTED CEILING PLAN               |
| A2 | LARGE SCALE PLAN/INTERIOR ELEVATIONS/MISCELLANEOUS DETAILS |

### Structural

|     |                           |
|-----|---------------------------|
| S.1 | PARTIAL ROOF FRAMING PLAN |
|-----|---------------------------|

### Mechanical

|      |   |
|------|---|
| M1.1 | EXISTING PLUMBING - DEMOLITION PLANS          |
| M1.2 | EXISTING VENTILATION - DEMOLITION PLANS       |
| M2.1 | PLUMBING MODIFICATIONS - PLANS                |
| M2.2 | NEW VENTILATION - PLANS                       |
| M2.3 | NEW VENTILATION - FLOW DIAGRAM                |
| P2.1 | NEW VENTILATION EQUIP. I/O LIST AND NARRATIVE |
| P2.2 | NEW VENTILATION - FLOW DIAGRAM                |
| P2.3 | NEW VENTILATION - CONTROLS SITE PLAN          |

### Electrical

|      |                              |
|------|------------------------------|
| E1.1 | LARGE SCALE ELECTRICAL PLANS |
|------|------------------------------|

North End Water Pollution Control Centre Site Location Map NTS

## BUILDING CODE SUMMARY

PROJECT DESCRIPTION  
THE PROJECT CONSISTS OF THE RENOVATION OF THE EXISTING PILOT STUDIES ROOM AND SOILS ROOM IN THE CITY OF WINNIPEG'S NORTH END WATER POLLUTION CONTROL CENTRE. THIS BUILDING IS LOCATED ON THE WEST SIDE OF NORTH MAN STREET IN WINNIPEG, MANITOBA.

THE EXISTING BUILDING IS CLASSIFIED TO THE FOLLOWING:  
BASED ON THE NATIONAL BUILDING CODE OF CANADA 2010

ARTICLE 3.2.2.81 GROUP F, DIVISION 3 (LOW HAZARD INDUSTRIAL OCCUPANCY)  
UP TO 4 STOREYS, NONSPRINKLERED  
THIS EXISTING BUILDING IS 3, 555 SQ. M. (38, 265 SQ. FT.)

THE ENTIRE EXISTING BUILDING IS 2 STOREYS IN BUILDING HEIGHT WITH A PARTIAL BASEMENT AND CRAWL SPACE, AND IS NONSPRINKLERED. THE BUILDING IS SUB-DIVIDED INTO THREE PARTS BY 1 HOUR FIRE SEPARATIONS. THE PORTION OF THE BUILDING THAT WILL CONTAIN THE NEW LABORATORY IS 223.16 SQ. M. (2,402 SQ. FT.)

THE BUILDING SHALL BE OF NONCOMBUSTIBLE OR COMBUSTIBLE CONSTRUCTION.

FLOOR ASSEMBLIES SHALL BE FIRE SEPARATIONS WITH A 45 MIN. FIRE RESISTANCE RATING.

ALL LOAD BEARING WALLS, COLUMNS ETC. SHALL HAVE A FIRE RESISTANCE RATING EQUAL TO THE SUPPORTED ASSEMBLY. COLUMNS ETC. SUPPORTING THE FIRST FLOOR ASSEMBLY SHALL HAVE A 45 MIN. FIRE RESISTANCE RATING AND COLUMNS SUPPORTING THE ROOF ASSEMBLIES ARE NOT REQUIRED TO BE RATED.

## SITE NOTES:

- DESIGNATED AREA FOR GENERAL CONTRACTOR'S PARKING AND LAYDOWN AREA. COORDINATE REQUIRED ACCESS TIME FOR CONSTRUCTION WITH THE OWNER.
- ACCESS TO THE AREA OF RENOVATION FOR THE NEW LAB IS THROUGH THE EXISTING WEST DOOR AND EXISTING CORRIDOR - 113B. NOTE THAT THE DOOR IS KEY LOCKED. THE GENERAL CONTRACTOR IS TO COORDINATE WITH THE OWNER FOR KEYS.
- DESIGNATED VEHICULAR ACCESS ROUTE FOR THE GENERAL CONTRACTOR AND SUPPLIERS.
- REFER TO DRAWING A1 - EQUIPMENT REMOVAL NOTES. EQUIPMENT AND FURNISHINGS AS INDICATED IN ITEM NO'S 1, 15, 17, 20, 21, 23, 24 AND 25 TO BE REMOVED BY THE GENERAL CONTRACTOR AND PLACED IN THE EXISTING STORAGE ROOM IN THE EXISTING GRIT REMOVAL BUILDING. COORDINATE WITH OWNER.
- REFER TO DRAWING A1 - EQUIPMENT REMOVAL NOTES. EQUIPMENT AND FURNISHINGS AS INDICATED IN NOTE 18 TO BE REMOVED BY THE GENERAL CONTRACTOR AND TO BE PLACED IN THE STORAGE ROOM OF THE EXISTING SLUDGE DENSIFICATION BUILDING - COORDINATE WITH OWNER.



|                           |               |  |  |   |                                     |
|---------------------------|---------------|--|--|---|-------------------------------------|
| B.M. ELEV.                | FIELD BOOK #: | LM Architectural Group<br>500-136 Market Ave<br>Winnipeg Manitoba Canada R3B 0P4<br>t: (204) 942.0681 f: (204) 943.8676<br>www.lm-architects.com | SEAL<br>PROVINCE OF MANITOBA<br>REGISTERED ARCHITECT<br>TERRY W. DANIELLEY<br>Aug 2011 | THE CITY OF WINNIPEG<br>WATER AND WASTE DEPARTMENT<br>NORTH END WATER POLLUTION CONTROL CENTRE<br>- LAB RENOVATIONS | SHEET 1 OF 3<br>CITY DRAWING NUMBER |
| POSTED TO LBIS            |               | DESIGNED BY  | CHECKED BY   | TITLE PAGE  |                                     |
|                           |               | DRAWN BY JM  | APPROVED BY  | CONSULTANT DRAWING NO. A0   |                                     |
| 2 ISSUED FOR FINAL REVIEW | 30/08/11 JM   | HOR. SCALE   | RELEASED FOR CONSTRUCTION  |   |                                     |
| 1 ISSUED FOR REVIEW       | 06/06/11 JM   | VERTICAL   |  |   |                                     |
| NO. REVISIONS             | DATE BY       | DATE   | DATE   |   |                                     |