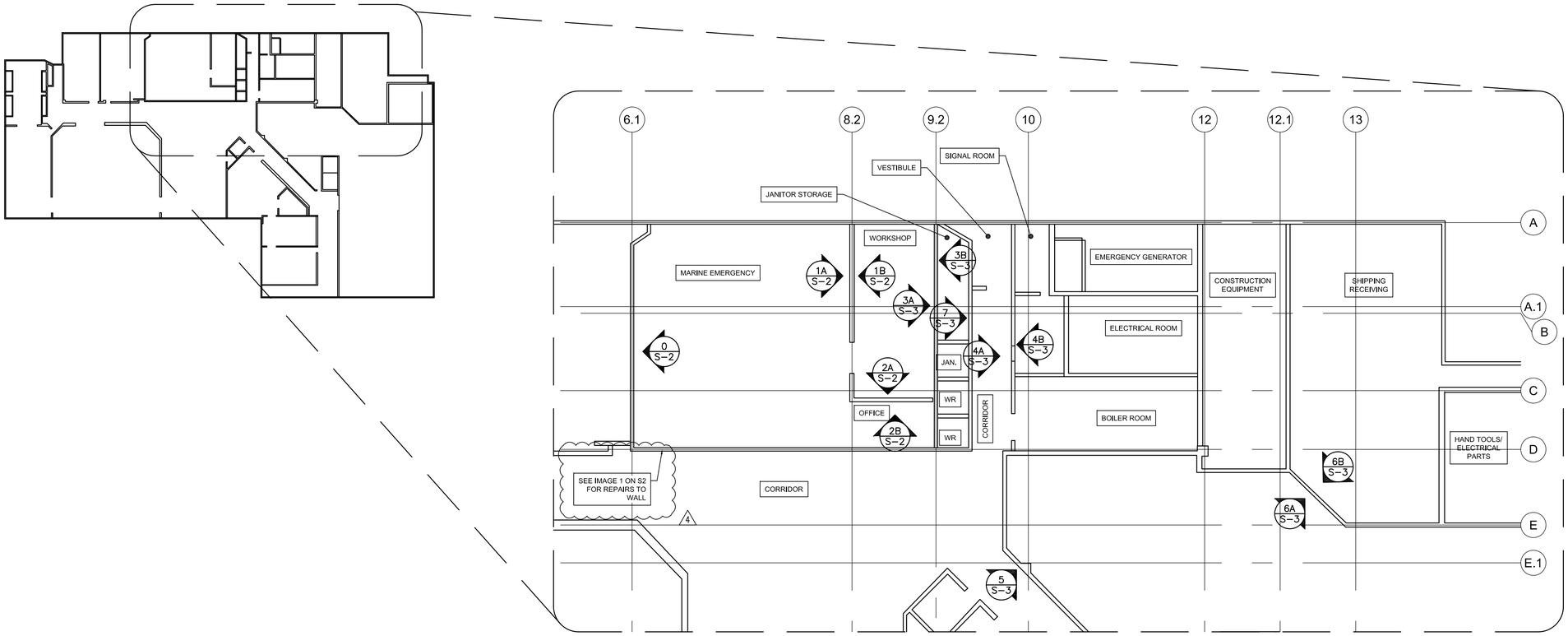

1 / S-1 KEY PLAN
SCALE: 1:500

1. GENERAL NOTES

1.1. DESIGN HAS BEEN COMPLETED IN ACCORDANCE WITH THE 2015 NBCC.
1.2. CHECK DIMENSIONS ON STRUCTURAL DRAWINGS WITH SITE MEASUREMENTS. REPORT ANY INCONSISTENCIES TO DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
1.3. ALL WORK SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE ONTARIO HEALTH AND SAFETY ACT AND MUST FOLLOW THE BEST TRADE PRACTICES.
1.4. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY WORKS AND SCAFFOLDING NECESSARY TO COMPLETE THE SCOPE OF WORK IDENTIFIED.
1.5. DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
1.6. ELEVATIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
1.7. RAKE OUT AND REMOVE ALL LOOSE AND DETERIORATED MORTAR TO THE EXTENT NOTED ON THE DRAWINGS.
1.8. RAKED OUT SURFACES SHALL BE EVEN AND SQUARE.
1.9. REPOINT AS NOTED ON THE DRAWINGS.
1.10. REPAIR/REPLACE AREAS OF EXISTING BLOCK AS NOTED ON DRAWINGS.
1.11. ENTIRETY OF EACH WALL AFFECTED BY CONSTRUCTION SHALL BE REPAINTED TO MATCH EXISTING COLOUR.
1.12. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY LATERAL SUPPORT TO ALL BLOCK WALLS DURING CONSTRUCTION. SUBMIT SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO TO DEPARTMENTAL REPRESENTATIVE.

3. DESIGN

3.1. SEISMIC DESIGN PARAMETERS:
3.1.1. Vp = 1.2 kN/m OF WALL LENGTH
3.2. WIND PRESSURE PARAMETERS:
3.2.1. Vw = 3.92kN/m OF WALL LENGTH (FACTORED)

4. STRUCTURAL STEEL

4.1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-S-16 AND THE CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL.
4.2. ALL EXPOSED WELDS TO BE CONTINUOUS.
4.3. STEEL PLATES SHALL BE CSA G40.20/21 300W.
4.4. CLEAN,PREPARE AND COAT ALL STRUCTURAL STEEL AFFECTED BY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PAINTING SPECIFICATIONS. DO NOT PRIME ANCHOR BOLTS OR SURFACES IN CONTACT WITH CONCRETE. WIRE BRUSH AND PAINT ALL EXISTING STEEL COMPONENTS TO REMAIN.
4.5. TOUCH-UP FIELD WELDS, CONNECTIONS AND ABRASIONS TO MATCH THE SHOP PRIMER.
4.6. ALL WELDING SHALL BE IN ACCORDANCE WITH CSA W59 BY A CERTIFIED PROFESSIONAL.

5. MASONRY

5.1. ALL CONCRETE BLOCK WALLS SHALL BE CONSTRUCTED WITH MINIMUM REINFORCEMENT CONSISTING OF 1-15M VERTICAL BAR AT 1000 MM C/C, LADDER TYPE HORIZONTAL REINFORCEMENT EVERY OTHER ROW (MIN. 3.66mm Ø). LAP LENGTH FOR VERTICAL BARS SHALL BE MIN. 1500mm.
5.2. ALL BARS SHALL BE DOWELED INTO SLAB AT BOTTOM OF WALL WITH 1500mm LONG DOWELS AND 100mm EMBEDMENT INTO SLAB. DOWEL SHALL BE FASTENED TO SLAB USING POST-INSTALLED EPOXY SYSTEM FOR A FACTORED SHEAR FORCE OF 2kN PER BAR. SUBMIT PRODUCT DATA FOR EXPOXY SYSTEM FOR APPROVAL BY DEPARTMENTAL REPRESENTATIVE.
5.3. SLAB MUST BE SCANNED TO IDENTIFY EXISTING REBAR AND SERVICES PRIOR TO ANY DRILLING ACTIVITIES.
5.4. MORTAR
5.5. MORTAR FOR REPOINTING AND CRACK REPAIR SHALL MATCH ORIGINAL MORTAR IN STRENGTH, COLOR AND COMPOSITION. CONTRACTOR SHALL COORDINATE AND CARRY OUT TESTING OF EXISTING MORTAR TO CONFIRM EXISTING MATERIAL PROPERTIES. TEST RESULTS SHALL BE SUBMITTED TO DEPARTMENTAL REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. TESTING SHALL BE PAID FOR BY THE CONTRACTOR.
5.5.1. MEETS CSA A179-14 REQUIREMENTS.
5.5.2. COLOUR TO MATCH EXISTING.
5.5.3. COMPRESSIVE STRENGTH (28 DAYS) FOR NEW CONSTRUCTION SHALL BE 13 MPa.
5.5.4. MORTAR TYPE : S
5.6. CONCRETE MASONRY UNITS
5.6.1. MEETS CSA A165 STANDARDS
5.6.2. UNIT STRENGTH (NET AREA) : 20 MPa
5.7. GROUT
5.7.1. MEETS A179-14 REQUIREMENTS.
5.7.2. MINIMUM COMPRESSIVE STRENGTH : 10 MPa AT 28 DAYS

6. REPOINTING METHODOLOGY

6.1. OLD MORTAR JOINTS TO BE RAKED OUT TO A MINIMUM DEPTH OF 2 TIMES THE WIDTH OF THE JOINT OR TO SOUND MATERIAL AS DETERMINED BY DEPARTMENTAL REPRESENTATIVE.
6.2. JOINTS ARE TO BE RAKED BY MANUAL METHODS. NO SAW CUTING IS PERMITTED UNLESS ALLOWED BY DEPARTMENTAL REPRESENTATIVE.
6.3. LOOSE MATERIAL FURTHER INSIDE THE JOINT MUST BE REMOVED AND CLEANED OUT.
6.4. AVOID DAMAGING EDGES OF BLOCK UNITS.
6.5. WET THE JOINTS IN ADVANCE OF REPOINTING.
6.6. BACK POINTING SHALL BE UP TO 30mm FROM THE FACE. DO NOT SMEAR MORTAR ONTO EXISTING MASONRY UNITS.
6.7. MORTAR MUST NOT EXTEND ONTO THE SURFACE OF BLOCK UNITS.
6.8. MOIST CURE FRESHLY POINTED JOINTS BY SPRAYING WATER AT INTERVALS AND COVERING WITH MOIST BURLAP AND/OR POLYETHYLENE SHEETING FOR A MINIMUM OF 7 DAYS AFTER REPOINTING. KEEP WALL AND BURLAP MISTED.
6.9. USE NATURAL BRISTLE OR NYLON BRUSHES TO REMOVE SMALL PIECES OF MORTAR AT THE EDGE OF THE REPOINTED JOINT AFTER THE MORTAR HAS BECOME THUMB PRINT HARD.

7. FIREPROOFING

7.1. ALL PENETRATIONS THROUGH FIRE-RATED WALLS SHALL BE SEALED WITH APPROPRIATE MATERIAL SO AS TO ACHIEVE A 2 HOUR FIRE RATING. LOCATIONS INIDCATED ON DRAWINGS.

Public Works and Government Services Canada
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Services d'architecture et de génie
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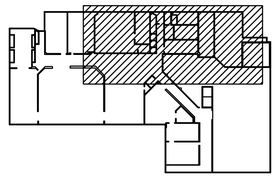

LICENSED PROFESSIONAL ENGINEER
C.B.M. VONTECHMAN
100183463
PROVINCE OF ONTARIO
2018-12-21

4	ISSUED FOR ADDENDUM #1	2018-12-21
3	ISSUED FOR TENDER	2018-12-03
2	ISSUED FOR 99% REVIEW	2018-11-16
1	ISSUED FOR 66% REVIEW	2018-10-26
revision	description	date

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

A Detail No. / No. du détail
B drawing no. – where detail required / dessin no. – où détail exigé
C drawing no. – where detailed / dessin no. – où détaillé

project title / titre du projet
PARRY SOUND Ontario
Canadian Coast Guard Base
28 Waubeek Street

WALL CRACK REPAIRS

drawing title / titre du dessin
KEY PLAN AND GENERAL NOTES

drawn by / dessine par: Claudia Bonneau
designed by / conc par: Josiah Fogarty
approved by / approuve par: Christoph von Teichman
tender / soumission: NANG QACH
project manager / administrateur de projets
project date / date du projet: 2018-12-03
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