FORT RODD HILL N.H.S.
CASEMATE BARRACKS REHABILITATION
1. CASEMATE BARRACKS ROOF REBAR PLAN

REBAR PLAN NOTES:

1. In addition to slab crack repairs at steel beams and new reinforcing, carry out local spall repair 51 over roof slab. Assume 40mm of sl repair, average 75mm depth.

S.S. BAR TERMINATED 150mm BACK FROM EDGE OF SLAB TYPICAL

CONCRETE WALL BELOW ROOF SLAB EDGE

S.S. BAR TERMINATED 150mm BACK FROM EDGE OF SLAB TYPICAL

10mm S.S. DOWELS EQUAL SPACING BETWEEN STEEL BEAMS TYPICAL EACH SLOT, SEE DETAIL

REPAIR EXISTING CRACK OVER EACH STEEL BEAM, SEE DETAIL

5 NEW SLOTS CUT INTO ROOF SLAB COMPLETE WITH NEW REINFORCING 25mm S.S. BARS, TYPICAL FOR ALL LOCATIONS, SEE DETAIL

COAL STORE NC

GENERAL STORE NC

LATRINE
CASEMATE BARRACKS & LATRINE ROOF PLAN

ROOF PLAN NOTES:
- INDICATES DIRECTION OF ROOF SLOPE

NOTES:
1. ENTIRE CASEMATE AND LATRINE ROOFING MATERIAL IS TO BE REMOVED BY OTHERS. CONTRACTOR IS TO TARP AND SAND BAG ROOF AT ALL TIMES DURING CONSTRUCTION TO PROTECT FROM LEAKAGE.

PROVIDE NEW OPENING (OR REINSTATE EXISTING) IN REPAIRED CONCRETE ROOF SLAB FOR PROVISION OF NEW VENT TO MATCH EXISTING.

FLASHING DETAIL AS PER SHOP DRAWINGS

ALL EXISTING ROOF VENTS TO BE REMOVED & REINSTALLED UPON COMPLETION OF ROOF REPAIRS AND REROOFING.

WOOD ROOF OVER PORCH TO BE PROTECTED FROM ANY DAMAGE DURING REMOVAL OF CONCRETE & REROOFING UPPER ROOF.

CHIMNEY STACK

FORT RODD HILL NHS
Victoria, B.C.

CASEMATE BARRACKS REHABILITATION

K. MAYER / P.MCMADDEN
D. STEPHENSON / T. ALMAD
M. CHAMBERS
TOM DUNPHY / PREETIPAL PAUL

R.07697.001 A07 0
RECTIFIED ELEVATION E
SCALE 1:40

NOTES FOR ELEVATION E:
1. CLEAN ENTIRE SURFACE AND REMOVE VESSELMENTS WHERE DOWN TO BARE CONCRETE.
2. DOCUMENT SHAPES AND DIMENSIONS OF PAINTED AREA PRIOR TO REMOVAL.
3. REMOVE ALL PAINT AT CONCRETE SURFACE.
4. SOUND ENTIRE CONCRETE SURFACE AND CARRY OUT SPALLING REPAIRS "AS" "AS", A CRACK REPAIR "US" FOLLOWED BY PAINTING "AS" "AS" ENTIRE SURFACE.

RECTIFIED ELEVATION F
SCALE 1:40

TYPICAL FOR ALL EXTERIOR WALLS.
**EXISTING STEEL BEAM EMBEDDED**

**EXISTING CONCRETE TO BE REMOVED AND REPLACED WITH NEW FROM TOP OF WINDOW TO 400mm IN FROM INTERIOR FACE OF WALL, ELEVATIONS C & D. REFER TO DRAWINGS ON SHEET A11 & A12**

**EXISTING CORRODED STEEL UNTIL TO BE REMOVED AND REPLACED WITH NEW MATCHING EXISTING SIZE AND PROFILE, ELEVATIONS C, D, & E**

**TEN EXISTING WOOD WINDOWS WILL BE REMOVED AND RESTORED OFF SITE BY OTHER WHO WILL ALSO INSTALL TEMPORARY WOOD WINDOW PLUG. WINDOW PLUGS TO BE MAINTAINED, REMOVED REINSTALLED AS REQUIRED TO PERFORM THE WORK AS PART OF THIS CONTRACT. REFER TO PLAN FOR WINDOW LOCATIONS.**

**TRIM BACK ALL VEGETATION, SHRUBS.**

**NEW WOOD VENT FLUSH IN FLOOR. REFER TO FLOOR PLAN FOR LOCATIONS. (7 TOTAL)**

**CLEAN OUT AND EXPOSE GUTTER, CARRY OUT CONCRETE REPAIR "SL" ALL ALONG GUTTER, ALL AROUND. SEE DETAIL**

**REINSTATE AIR CIRCULATION IN EACH ROOM BY OPENING UP EXISTING VENTING. APPLY REMOVABLE FRAME C/W DIAMOND BACK SCREEN OR SIMILAR TO PREVENT RODENT INFILTRATION AT EACH OPENING IN CRAWLSPACE. TERRA-COTTA VENT TO REMAIN INTACT. TYPICAL FOR ALL. (11 OR 12 TOTAL)**

**CONCRETE PAD, DEPTH UNKNOWN**

**CONCRETE SLAB, DEPTH UNKNOWN**

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**PHOTO OF TYPICAL OPENING IN WALL FOR VENTING. SEE PLAN FOR LOCATIONS**

**PHOTO OF TYPICAL EXISTING TERRA COTTA VENT. CONTRACTOR TO ENSURE ALL VENTS ALLOW AIR FLOW INTO CRAWLSPACE C/W SCREEN @ INSIDE OF CRAWLSPACE.**
CONCRETE TO BE REMOVED AND REPLACED WITH NEW ALL ALONG ELEVATION C, D, AT LINTEL AREA, ELEVATION E, EXCEPT WHERE OTHERWISE NOTED ON ELEVATION DRAWINGS.

RECORD FORM FOR NEW DRIP EDGE AT FASCIA, PROFILE TO MATCH EXISTING.

CORRODED STEEL LINTEL TO BE REPLACED WITH NEW, ELEVATION C, D, & E.

Parged Finish Surface

EXISTING WOOD WINDOW EXTENDS UP INTO CONCRETE PROFILE

RECORD PRECISELY EXISTING CONCRETE PROFILE, PAINT AND OPENING DIMENSIONS AT EACH WINDOW

EXISTING PRE-CAST CONCRETE SILL

EXISTING CONCRETE WALL

Parged Surface

1. DRIP DETAIL SHALL BE CAST AS PART OF NEW CONCRETE POUR & NOT SAW CUT

SECTION AT WINDOW / STEEL LINTEL (EXISTING)

SCALE: 1:10

SECTION NOTE:

EXISTING ROOF SLAB

EXISTING CONCRETE

EMBEDDED STEEL BEAM

CONCRETE TO BE REMOVED AND REPLACED WITH NEW ALL ALONG ELEVATION C, D, AT LINTEL AREA, ELEVATION E, EXCEPT WHERE NOTED ON ELEVATION DRAWINGS.

SMALL REPAIR "E" ALL ALONG TOP OF EXISTING CONCRETE

EXISTING CONCRETE TO REMAIN

Parged Surface

SECTION B1 AT WALL BETWEEN LINTELS (EXISTING)

SCALE: 1:10
**Photo 1:** Indicates approximate location of corrosion of steel lintel above all windows typical.

**Photo 2:** Exterior edge corroded steel lintel

**Photo 3:** Window lintel
PARING MIX DEPTH VARIERS TO SUIT LEVEL OF CONCRETE SURFACE AFTER DETERIORATED CONCRETE REMOVED. MATCH ORIGINAL CONCRETE SURFACE.

CRACK REPAIR CR2 AS REQUIRED. SEALANT & SAND AGGREGATE

MINOR CRACK

MAJOR CRACK

TOP SURFACE REPAIR

SHALLOW SPALL MIX PER LOCAL SPALL REPAIR SL, AS REQUIRED

PARING MIX FOR REPAIR DEPTHS

0 - 25mm AS REQUIRED

DEEP SPALL MIX PER LOCAL SPALL REPAIR SL, AS REQUIRED (DEPTH>75mm)

SOUND CONCRETE

CONCRETE WALL / PIER

CONCRETE COPING

LOCAL SHALLOW OR DEEP SPALL REPAIR PER SL

CONTINUOUS Drip EDGE RESTORED, TO MATCH ORIGINAL (TYPICAL)

CONCRETE SURFACE AFTER LOOSE, DETERIORATED CONCRETE REMOVED TO SOUND CONCRETE

CRACK REPAIR CR2 AT LOCATIONS OF EXISTING COPING CRACKS THAT ALIGN WITH WALL CRACKS AND AS OTHERWISE DESIGNATED. SEE DETAIL

SEALANT
1. FR - Fascia
   A167 (Repair)

2. P - General Parging
   A167 (Repair)

SHALLOW OR DEEP SPALL REPAIR PER SL.
AS REQUIRED. SEE DETAIL A167

FACE OF ROOF SLAB, OR COPING

PARGING MIX

RESTORED DRAIN EDGE
MATCH ORIGINAL FORM

EXISTING CONCRETE

PARGING MIX OVER AREA OF ERODED/
DELAMINATED PARGING

EXISTING PARGING LAYER

SAW CUT AS REQUIRED TO SUIT
JUNCTION OF NEW AND
EXISTING

EDGE OF SOUND CONCRETE

EXISTING CONCRETE

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CONCRETE REPAIR
DETAILS

R.076507.001 A16 0
EXISTING CONCRETE ROOF SLAB

THROUGH WALL CRACK

CRACKED & DELaminated CONCRETE WALL (600mm+)

EXTERIOR

INTERIOR

CONCRETE ROOF SLAB

THROUGH WALL CRACK

CRACKED & DELaminated CONCRETE WALL (600mm+)

CONCRETE WALL (600mm+)

CORROSION

STEEL BEAM EMBEDDED (6" TYP.)

EXTERIOR

INTERIOR

CR1 = ROOF / WALL JUNCTION CRACK FROM CORROSION JACKING

EXISTING, EXPOSED STEEL BEAM

NOTE: EXISTING. FOR REFERENCE INFORMATION ONLY.

CR1 = ROOF / WALL JUNCTION CRACK

EXISTING, EMBEDDED STEEL BEAM

NOTE: EXISTING. FOR REFERENCE INFORMATION ONLY.

CONCRETE ROOF SLAB

APPLY CRACK REPAIR MIX AS DEEP AS POSSIBLE WITH HAND TOOLS

EDGEx LOOSE DELaminATED CONCRETE REMOVED FOR REPAIR

CONCRETE WALL (600mm+)

EXTERIOR

INTERIOR

THROUGH WALL CRACK

CR1 = ROOF / WALL JUNCTION CRACK FROM CORROSION JACKING

REPAIR

APPLY CRACK REPAIR MIX AS DEEP AS POSSIBLE WITH HAND TOOLS
Cracked, delaminated at edge of crack

Crack repair mix as required to square off edge of sawcut

Crack repair mix to fill saw cut as deep as possible with hand tools

Sand aggregate finish

Sealant at 2:1 width/depth ratio

Backer rod/bond breaker

Sawcut, rout out existing crack to sound material depth to suit

Existing crack

1. CR2 - General Crack

4.5. (Existing)

Note: Existing, for reference information only.

Line of saw cut min 12 mm deep

12-75 mm

Shallow spall mix per repair sl

>75 mm

Deep spall mix per repair sl

Cracked, delaminated at edge of crack

Crack

Sand aggregate repair

Sealant at 2:1 width/depth ratio

Backer rod/bond breaker

Crack repair mix 12-25 mm deep repair

Edge of removal to sound concrete

Existing crack

3. CR2 - Crack with Spall

4.5. (Existing)

Note: Existing, for reference information only.

12-20 mm

Sand aggregate finish

Sealant at 2:1 width/depth ratio

Backer rod/bond breaker

Sawcut, rout out existing crack to sound material depth to suit

Existing crack

2. CR2 - General Crack

4.5. (Repair)
ROOF

CR2 REPAIR FROM EXTERIOR / INTERIOR

4 - 20M GFRP DOWELS 600mm LENGTH, ON DIAGONAL, INSTALLED TO STITCH ACROSS CRACK FROM EXTERIOR, SET IN EPOXY ADHESIVE. 50mm EMBEDMENT FROM SURFACE. PLUG DRILL HOLE WITH FARGING REPAIR MIX.

DOOR OPENING

1. CR3 - DOOR HEAD CRACK / PINNING REPAIR

SCALE: NTS
CR4 - BUILDING JOINT CRACK
(REPAIR)
CRACK REPAIR MIX, SEALANT AND SAND AGGREGATE FINISH PER CR2 REPAIR, SEE DETAILS.

MATCH WALL CRACK OR2 REPAIR BELOW WHERE CRACKS CONCEDE.

ELEVATION VIEW

SECTION VIEW AT COPING CRACK REPAIR

CR5 – WALL CAP / COPING CRACKS

CONCRETE COPING / CAR 25mm DEPTH

CRACK REPAIR MIX FOR REPAIR UP TO 25mm DEPTH

DEPTH OF CRACKED, SPALLED, DELAMINATED CONCRETE ADJACENT TO CRACKS VARY

REBUILT DRIP EDGE AT SPALL; MATCH ORIGINAL FORM

CONCRETE WALL

DEPT OF CRACKED, SPALLED, DELAMINATED CONCRETE ADJACENT TO CRACKS VARY

FOR LARGER SPALLS AT CRACKS SHALLOW OR DEEP SPALL MIX PER REPAIR SL. SEE DETAIL

RESTORED DRIP EDGE AT SPALL; MATCH ORIGINAL FORM

CONCRETE WALL
Shallow spall repair mix
25mm S.S. threaded hook bar
& S.S. couplers to suit

Existing roof slab
10mm S.S. threaded hooked bar
dowels set in epoxy adhesive and
drilled at slight angle
Epoxy adhesive at junction

Roof slab reinforcement detail

25mm Nom. depth saw cut both
sides of crack

50-75mm: Average width following crack
50mm: Average depth along crack

Chip out, cracked, loose concrete
all along crack and repair per
spall repair slab. Use shallow spall
mix. See detail

Existing crack
Existing roof slab
Existing embedded steel beam

Concrete crack repair (top of roof slab)
NEW OR REPAIRED CONCRETE, SEE SHEET A07

SPECIFIED MEMBRANE TO EXTEND OVER FLASHING

FLASHING TO BE SECURED TO EXISTING CONCRETE & EXTEND OVER FASCIA TO MATCH FITTER'S SHOP

SPECIFIED COATING

SPECIFIED COATING

FACTORY FINISHED METAL FLASHING TO ENTIRE ROOF OVER NEW OR REPLACED CONCRETE.

—UPON COMPLETION OF NEW CONCRETE WORK, APPLY SPECIFIED COATING TO FASCIA AND UNDERSIDE OF SOFFIT

NOTE: FLASHING IS REQUIRED ALL EDGES OF NEW AND REPAIRED CONCRETE FOR CASEMATE & LAVRINE (REMOVED ON OTHER DRAWINGS FOR CLARITY OF CONCRETE REPAIRS)

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CASEMATE BARRACKS FLASHING DETAILS

R. 075097.001 A33 0
PHOTO OF CHIMNEY CAP

PHOTO OF CHIMNEY CAP

PHOTO OF CHIMNEY CAP

PHOTO OF CHIMNEY CAP

CHIMNEY DETAILS (EXISTING)

NOTE: PLEASE REFER TO PHOTOS ABOVE FOR CLARIFICATION ON EXISTING CHIMNEY CONDITION

CAREFULLY REMOVE EXISTING ROOF FLASHING, REMOVE TAR (OR FABRICATE NEW FLASHING TO MATCH EXISTING)

REINSTALL EXISTING FLASHING OR NEW TO MATCH EXISTING UPON COMPLETION OF ROOF REPAIRS. INSTALL NEW FLASHING.
FLASHER DETAIL FOR CHIMNEY CAP

EXISTING BRICK CHIMNEY

NEW GALVANIZED REHABILITATED OR RESTORED FLASHER ATTACHED TO ROOF DECK AS PER MANUFACTURER'S INSTRUCTIONS. ALL JOINTS BETWEEN BASE FLASHING ARE SOLDERED.

NEW ROOFING MEMBRANE CONT. ADHERED ACROSS ROOF AND UP MASONRY TO A MINIMUM OF 200mm

FIBRE CANT STRIP

200mm MINIMUM ON ALL SIDES FOR NEW FLASHING

EXISTING CONCRETE ROOF SLAB C/W NEW CONCRETE TOPPING
APPROXIMATE LOCATION OF NEW OPENING IN CONCRETE TO BE PROVIDED WHERE EXISTING BEAM IS TO BE REMOVED AND NEW BEAM TO MATCH EXISTING TO BE INSERTED. REPAIR OPENING WITH DEEP SPALL MIX.

AREA OF CONCRETE TO BE CAREFULLY REMOVED TO FACILITATE REMOVAL OF STEEL BEAM. AFTER SCAFFOLDING HAS BEEN ERECTED BY OTHERS. BEAM IS TO BE CAREFULLY REMOVED AT THIS END WITH AS MINIMAL INTERVENTION TO EXISTING CONCRETE AS POSSIBLE.

MINIMAL CONCRETE REMOVAL AND REPLACEMENT FOR STEEL BEAM REPLACEMENT

25M S.S. BAR CUT IN SLOTS @ 600 O.C. PER DETAIL

NOTE: MAKE INSPECTION OPENING PRIOR TO BEAM REMOVAL.

"DOVE TAIL" REMOVAL LINE FOR CONCRETE REMOVAL FOR MECHANICAL ENGAGEMENT

CORRODED STEEL BEAM TO BE REMOVED AND REPLACED TO MATCH BEAM POCKET REPAIR (SIMILAR TO ) TO SUIT AT EACH END

LATRINE - STEEL BEAM EMBEDDED REPLACEMENT DETAIL

SCALE: 1:5

LOCATION OF EXISTING DRAIN COVER, COVER TO PREVENT MATERIAL FROM ENTERING DURING CONCRETE REMOVAL ADJACENT

CR1 REPAIR, SEE DETAIL

TOP OF WALL CAP / COPING REPAIR

FULL LENGTH OF WALL SEE DETAIL

CR2 REPAIR, SEE DETAIL

CR4 REPAIR AND SL SPALLING REPAIR FULL HEIGHT SEE DETAIL

LATRINE - REPAIRS

SCALE: 1:5

NOTES ON PAVING OVER CONCRETE PATCH: APPLY PAVING WITH TROWEL AND FILL GAPS.