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- The diagram illustrates the layout of foul and surface water drainage systems. It includes the following components:
- PROPOSED FOUL DRAINAGE SHOWN:** A green line with an arrow pointing right, ending in a green circle (manhole).
 - EXISTING FOUL DRAINAGE SHOWN:** A purple line with an arrow pointing right, passing through a purple circle (manhole) labeled "F18 1500 1.80".
 - EXISTING SURFACE WATER SHOWN:** A blue line with an arrow pointing right, passing through a blue circle (manhole) labeled "E16 1500 1.80".
 - PROPOSED SURFACE WATER DRAINAGE SHOWN:** A purple line with an arrow pointing right, passing through a purple circle (manhole) labeled "S18 1500 1.80".
 - EXISTING SURFACE & FOUL DRAINAGE TO BE REMOVED SHOWN:** A red dashed line with an arrow pointing right, ending in a red circle (manhole) labeled "F18 1500 1.80".

1. TAKE GREAT CARE WHEN EXCAVATING FOR FOOTINGS TO ENSURE THE STABILITY OF EXISTING OR ADJACENT STRUCTURES.
2. THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY TEMPORARY PRO AND SHORING AS REQUIRED BY THE WORKS OR DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL PREPARE A METHOD STATEMENT FOR ALL DEMOLITIONS AND SHALL PREPARE CALCULATIONS FOR TEMPORARY WORKS FOR APPROVAL OF THE ENGINEER. TEMPORARY WORKS SHALL BE DESIGNED IN ACCORDANCE WITH BS 5973 3019, CODE OF PRACTICE FOR TEMPORARY WORKS PROCEDURES AND THE PERMISSIBLE STRESS DESIGN ALLOWABLE.
4. THE CONTRACTOR SHALL RETAIN ALL MATERIAL CERTIFICATES FOR THE WORKS FOR THE INSPECTION OF THE ENGINEER.
5. THE ENGINEER MAY DIRECT TESTING OF MATERIALS OR WORKS IN ACCORDANCE WITH THE SPECIFICATION.

FOUNDATIONS

FOUNDATIONS SHALL BE FORMED USING GRADE XC2, C28/35, C05, 52, DO NOT ADD WATER ON SITE.

THE FOUNDATIONS TRENCHES SHALL NOT CONTAIN WATER WHEN CASTING CONCRETE. REMOVE ALL SOFT SPOTS AND LOOSE MATERIAL AND FILL WITH CRUSHED GRANULAR MATERIAL C15/20 BUILDING LAYER. ALL FOUNDATIONS REINFORCED WITH A830 GRADE 600 KESM REINFORCEMENT SUPPORTED ON PREPARED CHAIRS. MIN. 50MM COVER TO CONCRETE ON BULKHEAD PILES.

FOUNDATION STEPS, WHERE REQUIRED ON SITE SHALL BE IN ACCORDANCE WITH DIAGRAM 12, BUILDING REGULATIONS, TGD 4.2.1. STEPPING SHALL FOLLOW CURSORS/WORK AND NOT BE GREATER THAN TWICE THE THICKNESS OF THE FOUNDATION. FOUNDATION STEPS SHALL BE CAST AND CURED IN THE SAME FOUNDATION TRENCHES AS THE FOUNDATION AND APPROVED BY THE

PROVIDE 150MM CONCRETE TRENCH FILL TO 15MM BELOW FPC
DRIVE ON SITE. FINAL DEPTH AND DIMENSIONS TO BE AS
ENGINEER FOLLOWING EXCAVATION.

RISING WALLS

RISING WALLS SHALL BE SOLID AND CONSTRUCTED OF ROAD
1:3:10 SOLID CONCRETE BLOCKWORK COMPLYING WITH U.S.
WALLS SHALL BE AT LEAST THE SAME THICKNESS AS THE
AND CURBS RISING IN PROPORTION SHALL BE FULLY
PROVIDE NODICEX EASLOK RATIONAL RAMP PROOF
CONCRETE 50MM GRAS IN INTERNAL RISING WALLS AT 0.0M
RAMP SLIDE.

PROVIDE M1200 MORTAR BELOW DPC LEVEL.

PROVIDE ROADSTONE THERMAL UTILITY GROUP 1, 518N 80
WHERE SHOWN ON THE DRAWINGS AND ASSOCIATED DATA
AND 100% THERE. THERE SHALL BE A MINIMUM 10%
CONDUCTIVITY (LAMBDA) VALUES LESS THAN 0.23W/MK.

DO NOT SUBSTITUTE MATERIALS WITHOUT WRITTEN APPROVAL

75MM NON STRUCTURAL SCREED REINFORCED WITH A192 TO TOP WITH 25 COVER, ON

THE ARCHITECTS SPECIFICATION, ON

- MONUMETAL RMB-400 RADON BARRIER WITH ALL JOINTS WELL LAPPED AND DOUBLE SEALED WITH MONOMORND RT DEPTH-SIDED BUTYL SEALANT TAPE
- C28/35 X31 D20 S2 CONCRETE BASE.
- NOT MORE THAN 50MM T3 BLIND/ FINE SAND BUNDING ON
- 200MM T2 PERM GAS PERMEABLE LAYER ON
- 150MM THICK T1 STRUCT/ SUBBASE FILLING ON
- TO STRUC/ HARDWARE FILLING TO DEPTHS AS REQUIRED, COMPACTED IN LAYERS NOT EXCEEDING 225MM IN THICKNESS

ALL LAYERS SHALL BE WELL COMPACTED IN ACCORDANCE WITH TABLE B.1, S. 868-2016

PROVIDE NIDEXCEL EAS-SUMP RADON SUMPS IN T2 PERM GAS PERMEABLE

FABRICATED STRUCTURAL STEEL (TO IS EN 1090-1:2009+AC:2010+A1:2011) SHALL BE CE MARKED. CONTRACTOR SHALL PROVIDE FACTORY PRODUCTION CERTIFICATE, WELDING CERTIFICATE AND PROJECT SPECIFIC DECLARATION OF PERFORMANCE TO THE ARCHITECT/ENGINEER.

- EXCUTION CLASS (C) IN COMPLIANCE WITH THE NATIONAL STRUCTURAL STEEL CONSTRUCTION MANUAL, 13TH EDITION, PART 5, SELF-PERFORMING STEELWORK SHALL BE AS FABRICATED TO D10 D960.
- ALL STRUCTURAL STEELWORK SHALL BE GRADE 50/250 MILYIELD STEEL TO BE WELDED TO D10 D960.
- ALL STRUCTURAL STEELWORK (RIVETS, COUPLERS AND BEAMS) SHALL BE WELDED TO D10 D960.
- ORDINARY BOLTS SHALL BE GRADE 8 TO D10 940 AND SHALL BE TO DIMENSIONS AS SHOWN.
- WELDS ARE TO BE FULL PENETRATION WELDS UNLESS NOTED OTHERWISE. WELDS ARE TO BE TO THE CONNECTION SHALL BE FULL PENETRATION BUT NOT TO THE END OF THE MEMBER.
- WELDS ARE TO BE FULL PENETRATION IN ACCORDANCE WITH THE SECTIONS OF THE AISC 360-10.
- ALL GALVANIZING SHALL BE IN ACCORDANCE WITH THE SECTIONS OF THE AISC 360-10 AND D10 900. ALL GALVANIZING VOLT HOURS SHALL BE IN ACCORDANCE WITH THE SECTIONS OF THE AISC 360-10 AND D10 900. ALL GALVANIZING SHALL BE IN ACCORDANCE WITH THE SECTIONS OF THE AISC 360-10 AND D10 900.
- FABRICATION DRAWINGS BASED ON THE DIMENSIONS SHALL BE PREPARED BY THE FABRICATOR. ALL STRUCTURAL STEELWORK SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT.

STRUCTURAL FASTENERS

- ORDINARY BOLTS SHALL BE GRADE 8 OR D10 940 AND SHALL BE TO DIMENSIONS AS SHOWN.
- HOLDING BOLTS SHALL BE FITTED IN ANGLE BRACES PRIOR TO CONCRETE POURING TO BE ACCURATELY IN THE LINE AND ANGLE FRAMES PRIOR TO CONCRETE POURING.
- CONCRETE REINFORCING BARS IN MASONRY JOINTS IN LOCATIONS WHERE

WITH FRS - A 44 STAINLESS STEEL ANCHOR RODS UNDER NOTED OTHERWISE SHALL BE USED TO REPAIR ALL STAINLESS STEEL WOLTS FROM STRUCTURAL STEEL PLATES. FOR CANTILEY WALL & BLOCKS UNDER NOTED OTHERWISE SHALL BE FRS 19 X 100 LUG TO 1/2" DIA. BUTT. SUFF. DATA.

CHEMICAL ANALYSTS TO CONCRETE ONLY IN LOCATIONS SYSTEM WITH FRS AA BY THE ENGINEER. SHALL BE GROUPED IN CONCRETE SYSTEM WITH FRS AA 44 STAINLESS STEEL ANCHOR RODS UNDER NOTED OTHERWISE.

ALL INSTRUCTIONS SHALL BE DETAILLED IN AGREEMENT WITH MANUFACTURER'S INSTRUCTIONS.

STRUCTURAL TIMBER

STRUCTURAL TIMBER WHEN USED SHALL BE IN ACCORDANCE WITH THE FOLLOWING: SHALL BE SIZED IN ACCORDANCE WITH BR 17-219 TIMBER CONSTRUCTION REQUIREMENTS - SPAN TABLE & CLEARENCE.

STRUCTURAL CONCRETE

CONCRETE SHALL COMPLY WITH EN 206:2013 +A1:2014 +AC208:2014. REINFORCED CONCRETE SHALL COMPLY WITH EN 10080:2005 +A1:2014. CONCRETE SHALL BE GROUPED IN ACCORDANCE WITH EN 12601:2002. ALL CONCRETE MATERIAL SHALL BE CARRIED OUT STRUCTURE IN ACCORDANCE WITH THE SPECIFICATION.

MASONRY

BLOCKWORK WALLS SHALL BE CONSTRUCTED OF GROUP 1, ST 25M SUDO CONCRETE BLOCKWORK COMPLYING WITH EN 771-3:2015 AND BS 3283:2013 +A1:2014 +AC208:2014. USED MASONRY SHALL BE IN ACCORDANCE WITH THE SIZES SHOWN ON THE PLANS AND DETAILS.

STRUCTURAL TIMBER WHERE USED SHALL BE IN ACCORDANCE WITH EN14080-1:2019 AND SHALL BE SIZED IN ACCORDANCE WITH SR 71:2015 TIMBER CONSTRUCTION EUROCODE 5 - SPAN TABLE AND GUIDELINES.

CONCRETE SHALL COMPLY WITH IS 200:2013 +A1:2016 +AC:2017. REINFORCING STEEL SHALL COMPLY WITH IE EN 10080:2005 +NA: 2010. CONCRETE SHALL BE SUPPLIED TO THE GRADES SHOWN ON THE DRAWINGS. ALL CONCRETE WORK SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE SPECIFICATION.

BLOCKWORK WALLS SHALL BE CONSTRUCTED OF GROUP 1, 57.5N SOLID CONCRETE BLOCKWORK COMPLYING WITH I.S. EN 771-3:2011 AND SR 325:2013 +A2:2016 +AC:2019, USING M400 MORTAR ABOVE DPC LEVEL. WALLS SHALL BE THE SIZES SHOWN ON THE PLANS AND DETAILS.

WHERE SHOWN ON THE DRAWINGS AND ASSOCIATED DETAILS. ALL VALUES SHALL BE KEILSPEC, CROSS GRADE AND UNIFIED CONDITIONS WITH HOODSTONE THERMAL LITEBLOCK. BLOCKS ONLY. DO NOT SUBSTITUTE MATERIALS WITHOUT WRITTEN APPROVAL.

WALL TIES

PROVIDE 27MM(1.06 INCH) ANCHOR STAYS RITE TYPE 2 WALL TIES AT 450MM(17.72 INCH) HORIZONTAL SPACES AND 600MM VERTICAL SPACES AT 18MM(.71 INCH) TIE. PROVIDE 27MM(1.06 INCH) COURSE AT UNIFIED CONDITIONS AND DEEPS AT 18MM(.71 INCH) FROM THE EDGE.

PROVIDE TIES AT EVERY COURSE AT MOVEMENT JOINTS. WALL TIES SHALL BE CONTINUED ON THE OUTSIDE. EMBEDDED IN THE MAIN MASONRY ABOVE EACH DEEP. PROVIDE 27MM(1.06 INCH) ANCHOR STAYS RITE TYPE 2 WALL TIES AT 450MM(17.72 INCH) AT 18MM(.71 INCH) TIE.

BED JOINT REINFORCEMENT

PROVIDE ANCHOR AIR-JOINTS SWIFT'S MASONRY REINFORCEMENT IN THE FIRST AND LAST JOINT COURSE. TIES SHALL BE 27MM(1.06 INCH) WIDEN AND 1500MM(59 INCH) BED JOINT REINFORCEMENT SHALL EXTEND 600MM BEYOND THE OPENING.

LINTELS & BEARING PADS

PROVIDE KEILSPEC PRECAST LINTEL BEAMS. BEARING PADS WHERE SHOWN SHALL BE KEILSPEC ANCHOR FASTENERS TO SIZES SHOWN ON THE DRAWING.

PROVIDE TIES AT EVERY COURSE AT MOVEMENT JOINTS. TIES SHALL BE CENTRED ON THE CAVITY, EMBEDDED IN TYPE M4000 MORTAR ABOVE DPC LEVEL AND LAID CRIP DOWN. TIES SHALL BE MAINTAINED FREE OF MORTAR SNOTS. WALL TIES SHALL COMPLY WITH U.S. EN 845-1:2013+A1:2016.

PROVIDE ANCON AMR-XS/D3.0W175 MASONRY REINFORCEMENT IN THE FIRST AND SECOND COURSE ABOVE AND BELOW ALL WINDOW AND DOOR OPENINGS. BED REINFORCEMENT SHALL EXTEND 600MM BEYOND THE OPENING.

PROVIDE KILLESFAL PRECAST LINTEL BEAMS. BEARING PADS WHERE SHOWN SHALL BE KILLESFAL 40N PADSTONES TO SIZES SHOWN ON THE DRAWING.

**Horizontal Dam-Proof Courses (HPCs) SHALL COMPLY WITH THE REQUIREMENTS
 10.05 9102.05 9101 AND 95 9020. PART 3**

**HORIZONTAL DAM-PROOF COURSES SHALL BE PROVIDED AT POSITIONS
 ON THE DETAILS AND BE POSITIONED SO AS TO FULLY COVER THE LEAF
 THICKNESS. ALL HORIZONTAL DAM-PROOF COURSES SHALL BE Laid ON A
 BED OF FINE MORTAR AND COVERED BY MORTAR SO AS TO MAINTAIN THE
 COURSE AND JOINT THICKNESS AND WHILE EXPOSED SHALL BE PROTECTED
 FROM DAMAGE WHILE THE BUILDING IS PROCEEDING.**

**STEPS IN DAM-PROOF COURSES AT OPENINGS SHALL EXTEND BEYOND THE
 OF THE LEVEL BY AT LEAST 100MM.**

**ALL HORIZONTAL DAM-PROOF COURSES SHALL PROTRUDE 10MM FROM THE
 EXTERNAL FACE OF THE WALL AND BE TURNED DOWNWARDS.**

**VERTICAL DAM-PROOF COURSES SHALL BE OF ADEQUATE WIDTH AND BE
 SO AS TO SEPARATE THE INNER AND OUTER LEAFS OF THE WALL. THE
 MATERIAL FOR DAM-PROOF COURSES SHALL COMPLY WITH BS 5628 PART 3**

VERTICAL DAMP-PROOF COURSES SHALL BE OF ADEQUATE WIDTH AND BE 50 AS TO SEPARATE THE INNER AND OUTER LEAVES OF THE WALL. THE MATERIAL FOR DAMP-PROOF COURSES SHALL COMPLY WITH BS 5623 PART 1.

REV	DATE	DETAILS	CHK	CRN
CLIENT			PROJECT NO	DRAWING NO
BOM MUN'S CROSS NS			3367-01	T2000
PROJECT			PROJECT STAGE	
EXTENSION A ALTERATIONS TO NUN'S CROSS NS			TENDER	
PROJECT LOCATION			SCALE	
NUN'S CROSS N.S., NUN'S CROSS RD, WYCKLOD, A67 HKTO			1:50	
DRAWING			A0	
FOUNDATION LAYOUT - SHEET 1				
DWG. REF.				
3387-01-00-00-06-T2000-A01				
16. THESE NOTES ARE TO BE OBSERVED. UNLESS NOTED OTHERWISE, THEY APPLY TO ALL DIMENSIONS. SEE ALSO THE FOUNDATION, OVERHEAD, SIDEWALK, & PAVING. SEE ALSO SCALE & GRID. IN				