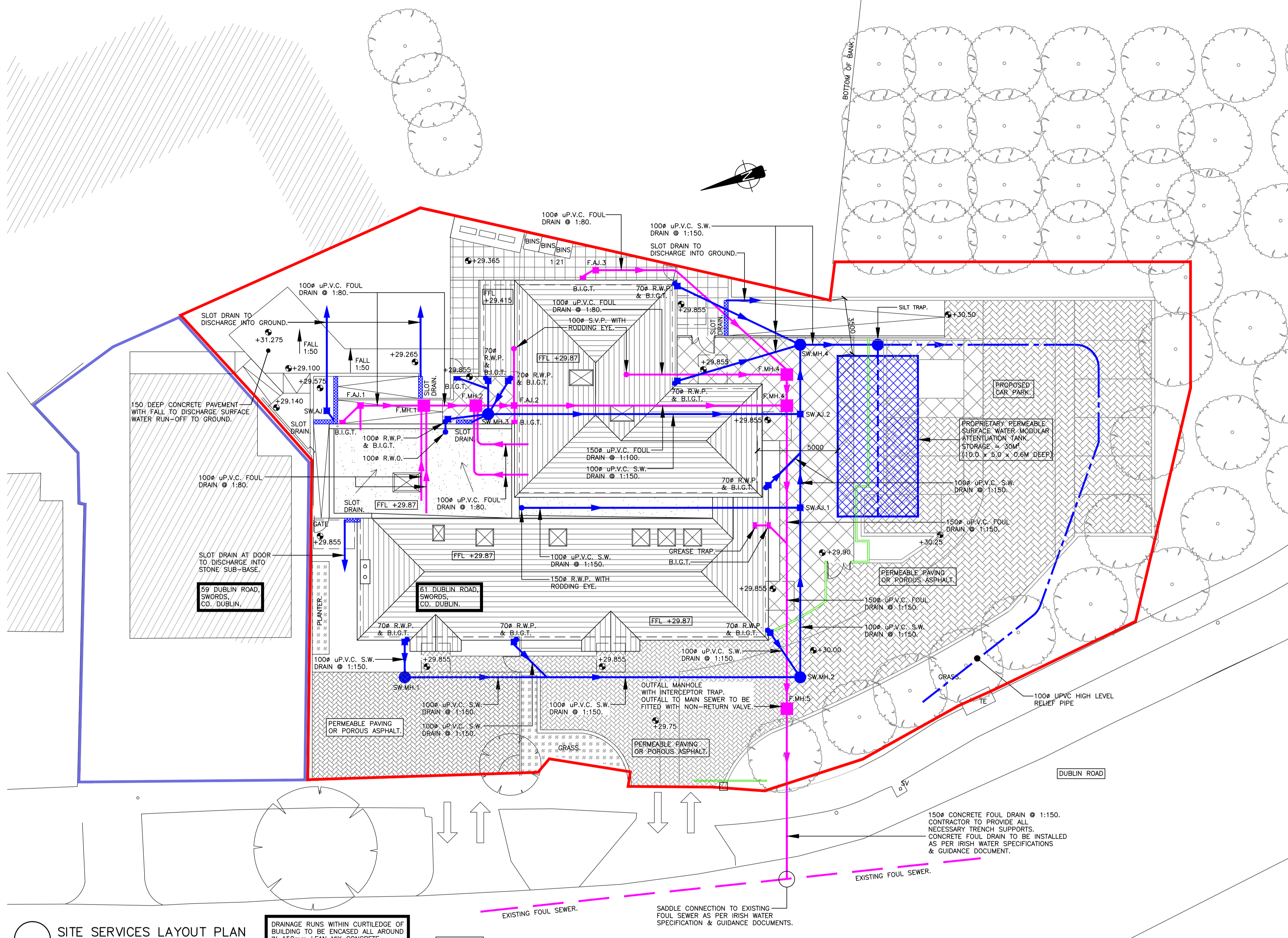
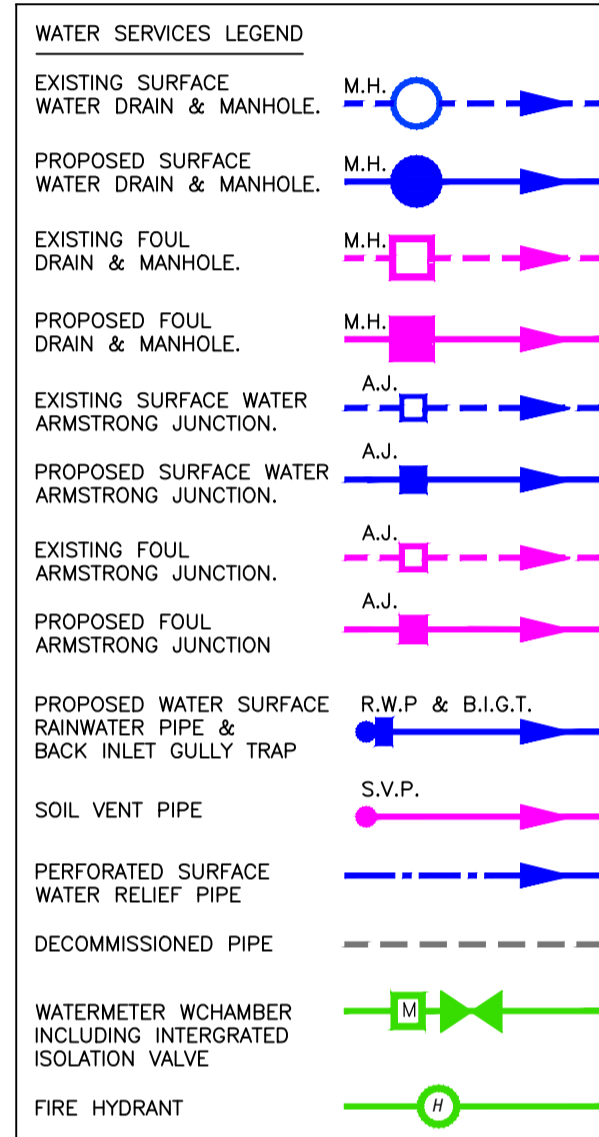


**GENERAL SPECIFICATION NOTES**

- DO NOT SCALE FROM DRAWING. USE FIGURED DIMENSIONS ONLY.
- ALL WORKS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THIS DRAWING. NO CHANGES TO BE MADE ON SITE WITHOUT THE PRIOR PERMISSION OF EAMONN DOYLE ASSOCIATES.
- ALL LEVELS SHOWN ARE RELATIVE TO MALIN HEAD AOD. ALL FOUL & SURFACE WATER MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL SPECIFICATIONS & APPROVED BY AREA INSPECTOR.
- SLOT DRAIN:** 150MM WIDE PROPRIETARY SLOT DRAINAGE SYSTEM WITH CONSTANT DEPTH CHANNEL. STAINLESS STEEL COVER GRATING. SLOT DRAINS TO BE PROVIDED AT ALL ROLLER SHUTTER DOOR THRESHOLDS.
- MANHOLES: LOCKABLE & NON-SLIP.**  
ROADS / CAR PARK:  
CLASS D400 MANHOLE COVER & FRAME (150MM DEEP) TO IS / EN124  
PEDESTRIAN / GRASSED AREAS:  
CLASS B125 MANHOLE COVER & FRAME (100MM DEEP) TO IS / EN124  
MANHOLE COVER & FRAME TO BE OF NON-ROCK DESIGN (FITTED WITH GASKET) WITH SNAP-LOCK FACILITY. MANHOLE COVER & FRAME TO BE MANUFACTURED FROM SPHEROIDAL GRAPHITE CAST IRON (DUCTILE CAST IRON), 600 X 600 CLEAR OPENING. COVER & FRAME COATED IN BITUMEN OR OTHER APPROVED MATERIAL. COVER TO HAVE A MINIMUM MASS OF 140KG PER SQ. METRE. FRAME BEARING AREA SHALL BE 80,000 SQ. MM MIN. FRAMES SHALL BE DESIGNED TO PREVENT COVERS FALLING INTO MANHOLE. FRAMES SHALL BE BEDDED ON APPROVED MORTAR TO MANUFACTURER'S INSTRUCTIONS.  
200 PRECAST R.C ROOF SLAB. CONCRETE GRADE C25/30-D20. MINIMUM 40MM COVER TO STEEL. 600 SQ. OPE IN ROOF SLAB.  
STANDARD RUNGS AT 300MM CRS. RUNGS TO BE HOT DIPPED GALVANISED.  
PRECAST CONCRETE MANHOLE RINGS TO B.S 2494  
PRECAST CONCRETE RINGS SHALL BE SURROUNDED WITH CONCRETE, GRADE C20/25-D20 TO A MINIMUM THICKNESS OF 150MM TO WITHIN 1.0M OF GROUND LEVEL. CONCRETE TO BE REINFORCED WITH A142 MESH FABRIC REINFORCEMENT.  
BENCHING IS TO BE FORMED IN GRADE 30/20 CONCRETE & SHOULD RISE VERTICALLY FROM THE TOP EDGE OF THE CHANNEL TO A HEIGHT NOT LESS THAN THAT OF THE SOFFIT OF THE OUTLET & SLOPE UPWARDS TO MEET THE WALL OF THE MANHOLE AT A GRADIENT OF 1:6 (MIN RISE 25MM) IT SHOULD BE FLOATED WITH STEEL FLOAT TO A SMOOTH HARD SURFACE WITH 25MM THICK COAT OF 1:1 CEMENT MORTAR LAID WHILE THE BENCHING CONCRETE IS STILL GREEN.  
2000 X 2000 X 225DP BASE SLAB, CONCRETE GRADE C20/25-D20. 50MM LEAN MIX CONCRETE BLINDING, CONCRETE GRADE C8/10-D20.
- BEDDING AND BACKFILL:**  
ALL DRAINS TO BE BEDDED ON MINIMUM 150MM DEPTH OF 10MM DIAMETER PEA GRAVEL. DRAINS TO BE COVERED OVER TO A DEPTH OF 150MM ABOVE CROWN OF PIPE WITH 10MM DIAMETER PEA GRAVEL. SELECTED GRANULAR BACKFILL TO BE USED (CL804 UNDER TRAFFICKED AREAS ABOVE THIS).  
ALL DRAINS IN FOOTPATHS AND TRAFFICKED AREAS TO BE FULLY ENCASED IN 150MM CONCRETE, CONCRETE GRADE C16/20-D20 MINIMUM.  
ALL DRAINS WITHIN THE CURTLEDGE OF THE PROPOSED BUILDINGS TO BE FULLY ENCASED IN 150MM CONCRETE, CONCRETE GRADE C16/20-D20 MINIMUM.
- 7. FULL CCTV SURVEY TO BE CARRIED OUT ON ALL NEW DRAINS BEFORE HANDOVER. AIR TIGHTNESS TEST TO BE CARRIED OUT ON ALL NEW DRAINS IN ACCORDANCE WITH BUILDING REGULATIONS.**
- 8. WATER SPECIFICATION FOR INDIVIDUAL UNITS:**  
NEW 25MMØ MOPS MAINS WATER SUPPLY BRANCH CONNECTION IN 100MMØ SERVICE DUCT.  
NEW COMMERCIAL WATERMETER CHAMBER UNITS (WCU) INCLUDING INTEGRATED ISOLATION VALVE TO IRISH WATER SPECIFICATIONS. WATER METERS MUST BE CAPABLE OF REMOTE READING.
- ALL WATERMANS ARE TO BE HYDRAULICALLY TESTED AFTER LAYING IN COMPLIANCE WITH IRISH WATER STANDARDS. ON COMPLETION OF THE FINAL TEST, ALL PIPELINES ARE TO BE FLUSHED OUT AND STERILISED IN COMPLIANCE WITH IRISH WATER STANDARDS.
- 10. LOCATION OF BRANCH CONNECTIONS FROM ROOF LEVEL RAINWATER OUTLETS SUBJECT TO DESIGN OF ROOF DRAINAGE FALLS, ETC.**
- 11. DRAINAGE RUNS WITHIN CURTLEDGE OF BUILDING TO BE ENCASED ALL AROUND IN 150MM LEAN MIX CONCRETE, GRADE C16/20-D20.**

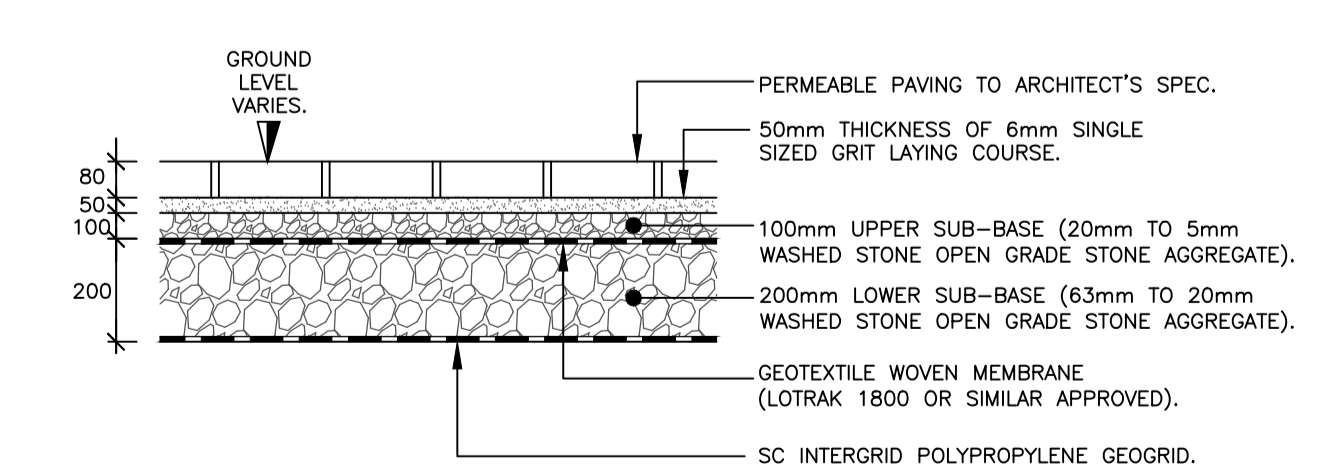
| MANHOLE No. | COVER LEVEL | INVERT LEVEL | COMMENT     |
|-------------|-------------|--------------|-------------|
| SW.MH.1     | +29.80      | +29.20       | 500MM COVER |
| SW.MH.2     | +30.00      | +29.05       | 600MM COVER |
| SW.MH.3     | +29.85      | +29.15       | 600MM COVER |
| SW.MH.4     | +29.72      | +28.90       |             |
| SW.AJ.1     | +29.72      | +28.98       |             |
| SW.AJ.2     | +29.72      | +28.95       |             |

| MANHOLE No. | COVER LEVEL | INVERT LEVEL | COMMENT                          |
|-------------|-------------|--------------|----------------------------------|
| F.MH.1      | +29.80      | +29.10       | 600MM COVER                      |
| F.MH.2      | +29.85      | +29.00       | 700MM COVER                      |
| F.MH.3      | +29.72      | +28.80       |                                  |
| F.MH.4      | +29.72      | +28.83       |                                  |
| F.MH.5      | +29.93      | +28.67       | OUTFALL MANHOLE INTERCEPTOR TRAP |
| F.AJ.1      | +29.65      | +29.20       | 350MM COVER                      |
| F.AJ.2      | +29.85      | +28.95       |                                  |
| F.AJ.3      | +29.65      | +29.20       | 350MM COVER                      |



**SITE SERVICES LAYOUT PLAN**  
SCALE 1:150

DRAINAGE RUNS WITHIN CURTLEDGE OF BUILDING TO BE ENCASED ALL AROUND IN 150mm LEAN MIX CONCRETE.



**TYP. SECTION THRO' PERMEABLE PAVING BUILD-UP**  
SCALE 1:15

| REV. | DATE     | AMENDMENT         | DRN. | CKD. |
|------|----------|-------------------|------|------|
| B    | 21.07.21 | GENERAL REVISIONS | RF   | ED   |
| A    | 11.05.21 | GENERAL UPDATES   | RF   | ED   |

|  |   |  |
|--|---|--|
| <b>EAMONN DOYLE ASSOCIATES CONSULTING ENGINEERS</b>                      |   | UNIT 13, BLOCK 5<br>PORT TUNNEL BUSINESS PARK<br>CLONSILLAUGH<br>DUBLIN 17<br>D17 HY93 |
| PHONE: 01-8670261/62<br>E-MAIL: info@edasoc.ie<br>WEBSITE: www.edasoc.ie |   |  |
| CLIENT   | ST. MICHAEL'S HOUSE   |  |
| ARCHITECT  | MICHAEL MOHAN ARCHITECTS  |  |
| PROJECT  | PROPOSED LOCAL DAY CARE CENTRE FOR ST. MICHAEL'S HOUSE AT 61 DUBLIN ROAD, SWORDS, CO. DUBLIN. |  |
| TITLE  | CIVIL WORKS SHEET NO. 1:<br>SITE SERVICES LAYOUT PLAN   |  |
| JOB No.  | 20-085  | SCALE AS SHOWN   |
| DRG. No.   | 01  | DRAWN BY K.DUNNE   |
| REVISION   | B   | CHECKED BY E.DOYLE   |
| DATE   | 11.05.2021  | FOR PLANNING PURPOSES<br>NOT FOR CONSTRUCTION  |