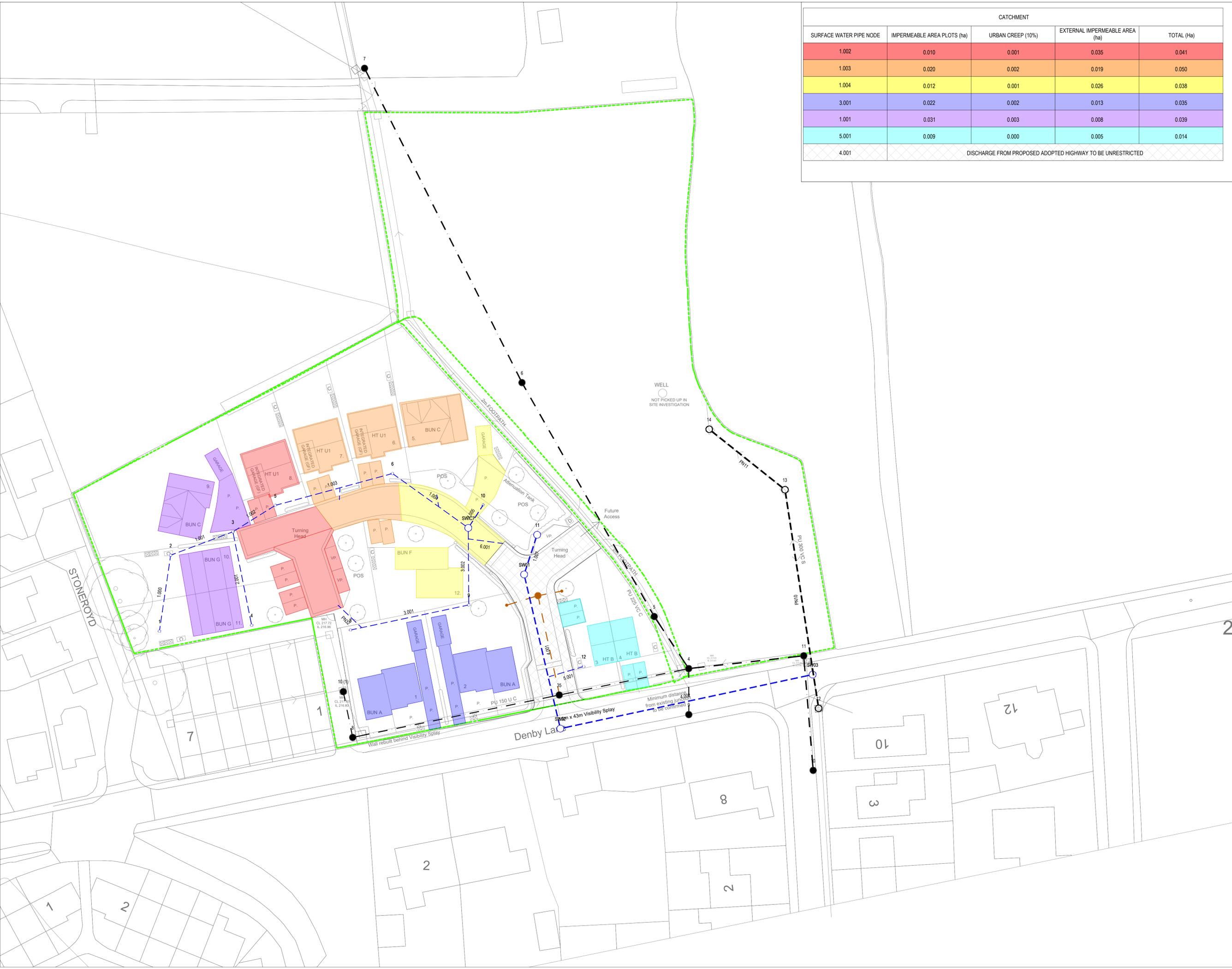


CATCHMENT				
SURFACE WATER PIPE NODE	IMPERMEABLE AREA PLOTS (ha)	URBAN CREEP (10%)	EXTERNAL IMPERMEABLE AREA (ha)	TOTAL (Ha)
1.002	0.010	0.001	0.035	0.041
1.003	0.020	0.002	0.019	0.050
1.004	0.012	0.001	0.026	0.038
3.001	0.022	0.002	0.013	0.035
1.001	0.031	0.003	0.008	0.039
5.001	0.009	0.000	0.005	0.014
4.001	DISCHARGE FROM PROPOSED ADOPTED HIGHWAY TO BE UNRESTRICTED			



**DESIGN NOTES**

- IN ACCORDANCE WITH THE CONSTRUCTION DESIGN & MANAGEMENT REGULATIONS 2015, IT IS THE DUTY OF THE CONTRACTOR TO IDENTIFY AND CONTROL ANY POTENTIAL RISKS TO THE HEALTH AND SAFETY OF THE CONSTRUCTION OPERATIONS AND MAINTENANCE OF THE PROJECT.
- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE CONSTRUCTION INFORMATION WHICH IS DEFINED IN THE CONSTRUCTION DESIGN & MANAGEMENT REGULATIONS 2015.
- A COMPETENT CONTRACTOR SHOULD BE AWARE OF POTENTIAL RISKS INVOLVED WITH THE CONSTRUCTION PROCESS. HOWEVER ADDITIONAL PRECAUTIONS WILL NEED TO BE CONSIDERED FOR THE FOLLOWING:
- SAFE METHODS AND SYSTEMS OF WORK REMAIN THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE IDENTIFIED IN THE CONSTRUCTION PHASE PLAN. THE CONSTRUCTION PHASE PLAN MUST BE IN PLACE PRIOR TO THE START OF ANY MAINTENANCE OR CONSTRUCTION WORKS.
- RESIDUAL RISKS THAT HAVE BEEN IDENTIFIED AND CANNOT BE DESIGNED OUT ARE AS FOLLOWS:
- IF ANY PARTY USING THE DRAWING CONSIDERS THAT THERE ARE ANY ADDITIONAL RISKS THAT HAVE NOT BEEN IDENTIFIED ABOVE, THEN THE ENGINEER SHOULD BE NOTIFIED.

**ADDITIONAL HEALTH & SAFETY NOTES**

- CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND THE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTIONS.
- CONTRACTOR TO PROVIDE TRIP/SUPPORT AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE.
- THE TRENCH EXCAVATION ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
- CONNECTIONS TO EXISTING SERVICES TO BE MADE BY APPROVED CONTRACTOR ONLY.
- CONTRACTOR TO MAKE OPERATIVES AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS COLD/STRESS/HEAT STROKES AND RECOMMENDED PRECAUTIONS AND TO WEAR APPROPRIATE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
- UNRESTRICTED MANHOLES MUST BE COVERED WITH LOAD-BEARING MATERIALS AND SURROUNDED WITH BARRIERS.

**PIPES & CHAMBERS**

- CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.
- SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORKS COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.

**EXCAVATIONS**

- CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE SAFE DURING EXCAVATION WORKS.
- CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM EXCAVATIONS.
- CONTRACTOR TO REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR CONVICTION TESTS AND TO OBTAIN ALL NECESSARY PERMITS, RELEASE FACILITIES AND PROTECTIVE COVERING AS REQUIRED.

**MANHOLES**

- ALL ACCEPTABLE DRAINAGE WORKS AND MATERIALS TO BE IN ACCORDANCE WITH CODE FOR ADOPTION. THE RELEVANT BIDDING/OPENING AND THE AUTHORITIES ENDORSEMENTS/COMPLIANCE STATEMENTS TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND STANDARD.
- MANHOLES TO BE CLASS 2 OR CLASS 3 UNLESS OTHERWISE SPECIFIED. CLASS 2 SHALL BE USED IN ALL AREAS WITH 100MM DEEP FRAMES IN HIGHWAYS.
- FILLED GROUNDS MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF THE LOCAL AUTHORITY PRIOR TO ANY SEWER WORKS BEING CARRIED OUT.
- ALL ACCEPTABLE SEWER MANHOLES SHALL BE CLASS 2 UNLESS OTHERWISE SPECIFIED.
- PLASTIC CHAMBER SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND THE WATER AUTHORITY PLASTER LAYERS CHAMBER IN MANHOLES PLASTER CHAMBERS ARE DIFFICULT TO BE SET IN CONCRETE BECAUSE THEY FLAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON THE BENCHING.
- SUBSTRATE RESISTANT CONCRETE PRODUCTS AND PRECAST CONCRETE PRODUCTS TO BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
- THE ACCEPTABLE SEWERS SHALL BE A MINIMUM OF 100MM MANHOLES 500MM FROM FACE AND SERVICE BARRIERS.
- SEWERS MUST HAVE A MINIMUM CLEARANCE FROM TREES AND HEDGES.
- SEWERS TO BE LAID IN CLASS 'S' BEDDING (FROM GRANULAR BED) AND SURROUNDING WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 200MM AND VERTICAL UNLESS OTHERWISE STATED IN SOME VERTICAL ACCESS AREAS THEN A CLASS '2' BEDDING CONCRETE SURROUNDING SHOULD BE PROVIDED.
- BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION BS 5118 TABLE 4D.
- THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION TO THEM MUST BE TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENCHING.
- ALL PRECAST CONCRETE PRODUCTS SHALL BE CARRIED OUT IN ACCORDANCE WITH BUILDING REGULATIONS 2010 EDITION.
- CONTRACTOR TO ESTABLISH POSITION SIZE AND DEPTH OF ALL EXISTING BUILDINGS AND SERVICES PRIOR TO COMMENCEMENT OF SITE.
- CONTRACTOR SHALL ALLOW FOR THE PROTECTIVE TEMPORARY AND PERMANENT SUPPORT AND TEMPORARY AND PERMANENT DIVERSION WORKS, AS NECESSARY TO ALL EXISTING SERVICES.
- THE CONTRACTOR SHALL ALLOW FOR ALL TRAFFIC MANAGEMENT IN CONNECTION WITH ROAD AND SEWER WORKS.
- THE CONTRACTOR SHALL ALLOW FOR KEEPING SEWER TRENCHES AND EXCAVATIONS AS DRY AS PRACTICABLE BY PUMPING FROM TEMPORARY SLURPS AND DRAINING AS APPROPRIATE. THE POINT AND METHOD OF DISCHARGE TO BE AGREED WITH THE DRAINAGE AUTHORITY.
- FOR PIPE SPECIFICATION PLEASE REFER TO ADDITIONAL NOTES.
- VERTICAL CLAY PIPES AND STRUCTURE SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS 6918 AND BS 6919 RESPECTIVELY AND BE STRENGTHED ALL PIPES SHALL BE EXTRA STRENGTH TO BS 6918 OR EQUIVALENT TO EN 12459 APPROVAL.
- STRUCTURED WALL PLASTIC PIPES TO BS 4241 MAY BE USED FOR FOUL & SURFACE WATER DRAINAGE, SUBJECT TO ENDS APPROVED APPROVAL.
- PRECAST CONCRETE PRODUCTS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS 6918 AND BE STRENGTHED. CONCRETE PIPES CLASS 'D' UNLESS NOTED OTHERWISE.
- GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 12459 AND BE A NON-SKIDDING DESIGN WITH CAPTURE ACCESS AND BE STRENGTHED. LOAD CLASS 'D' FOR ROADS AND SERVICE YARD AREAS. CLASS 'D2' TO BE USED IN CAR PARKING AREAS.
- SKIDDING AND RESISTANCE TO TRENCHES OF THE PUBLIC HIGHWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE ADOPTING AUTHORITY. OR, IN THE ABSENCE OF SUCH, IN ACCORDANCE WITH THE REQUIREMENTS OF THE STREET WORKS REGULATIONS 1997 AND RELEVANT PROVISIONS OF A.L.C. 'S' SPECIFICATION FOR THE REINFORCEMENT OF OPENINGS IN HIGHWAYS JUNE 1998 BOTH UNDER SECTION 11 OF THE NEW ROADS AND STREET WORKS ACT 1991.
- ALL GULLY GRATES TO BE 1000MM DIAMETER.
- ALL GULLY GRATES TO BE TRAPPED GULLIES.
- ALL NECESSARY EXISTING CHANGES TO BE GRUBBED UP OR GROUTED. ANY EXISTING DRAINAGE SHALL BE REPORTED TO THE ENGINEER AND RECONNECTED.
- ALL ROAD GULLIES TO BE CLEARED OF DEBRIS UPON COMPLETION OF WORKS.
- THE CONTRACTOR SHOULD BE SURE THAT ANY OF THE EXISTING DRAINAGE MANHOLE LIDS BE KEPT CLEAR OF DEBRIS AND SHOULD ALLOW FOR JETTING THROUGH THE NEW & EXISTING DRAINAGE UPON COMPLETION.
- CONTRACTOR TO TAKE MEASURES TO PROTECT HIS OPERATIVES WITH RESPECT TO THE PRESENCE OF GAS IN SEWER TRENCHES AND MANHOLES THROUGH THE USE OF GAS MONITORING EQUIPMENT AND BREATHING APPARATUS AS REQUIRED.
- CONTRACTOR TO APPLY FOR SEWER PERMITS AND ROAD OPENING PERMITS AS NECESSARY FROM THE APPROPRIATE AUTHORITIES PRIOR TO COMMENCING WORKS.
- ACCEPTABLE PLASTIC SEWER PIPES TO BE LAID IN MINIMUM 3% FALLOWS UNLESS THERE IS A SPECIFIC OPERATIONAL REQUIREMENT TO LAY LONGER LENGTHS.
- WHERE PLASTIC PIPES ARE NOTIFIED FROM THE DRAINAGE AUTHORITY, THEN A LIGHT LINE CTSY SURVEY AND REPORT ARE REQUIRED PRIOR TO APPROVAL.
- WHERE ALSO COVER AND FRAME HAD BEEN APPROVED. THIS MUST NOT BE COVERED IN PLASTIC AND MUST HAVE LIFTING EYES SUFFICIENTLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREEN DOWN COVERS ARE NOT ACCEPTABLE.
- THESE SHOULD BE ENOUGH CLEARANCE TO ACCOMMODATE THE BEDDING FOR BOTH PIPES. APPROX 300MM. IF CROSSOVERS OR NEAR THE RECORDS THEN THE CLEARANCE REQUIRED WILL BE INCREASED.
- THE MINIMUM CURBING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100MM DIA. ABOVE 100MM DIA. ABOVE 200MM DIA. ABOVE 300MM DIA. ABOVE 400MM DIA. ABOVE 500MM DIA. ABOVE 600MM DIA. ABOVE 700MM DIA. ABOVE 800MM DIA. ABOVE 900MM DIA. ABOVE 1000MM DIA. ABOVE 1200MM DIA. ABOVE 1500MM DIA. ABOVE 2000MM DIA. ABOVE 2500MM DIA. ABOVE 3000MM DIA. ABOVE 4000MM DIA. ABOVE 5000MM DIA. ABOVE 6000MM DIA. ABOVE 7000MM DIA. ABOVE 8000MM DIA. ABOVE 9000MM DIA. ABOVE 10000MM DIA. ABOVE 12000MM DIA. ABOVE 15000MM DIA. ABOVE 20000MM DIA. ABOVE 25000MM DIA. ABOVE 30000MM DIA. ABOVE 40000MM DIA. ABOVE 50000MM DIA. ABOVE 60000MM DIA. ABOVE 70000MM DIA. ABOVE 80000MM DIA. ABOVE 90000MM DIA. ABOVE 100000MM DIA. ABOVE 120000MM DIA. ABOVE 150000MM DIA. ABOVE 200000MM DIA. ABOVE 250000MM DIA. ABOVE 300000MM DIA. ABOVE 400000MM DIA. ABOVE 500000MM DIA. ABOVE 600000MM DIA. ABOVE 700000MM DIA. ABOVE 800000MM DIA. ABOVE 900000MM DIA. ABOVE 1000000MM DIA. ABOVE 1200000MM DIA. ABOVE 1500000MM DIA. ABOVE 2000000MM DIA. 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