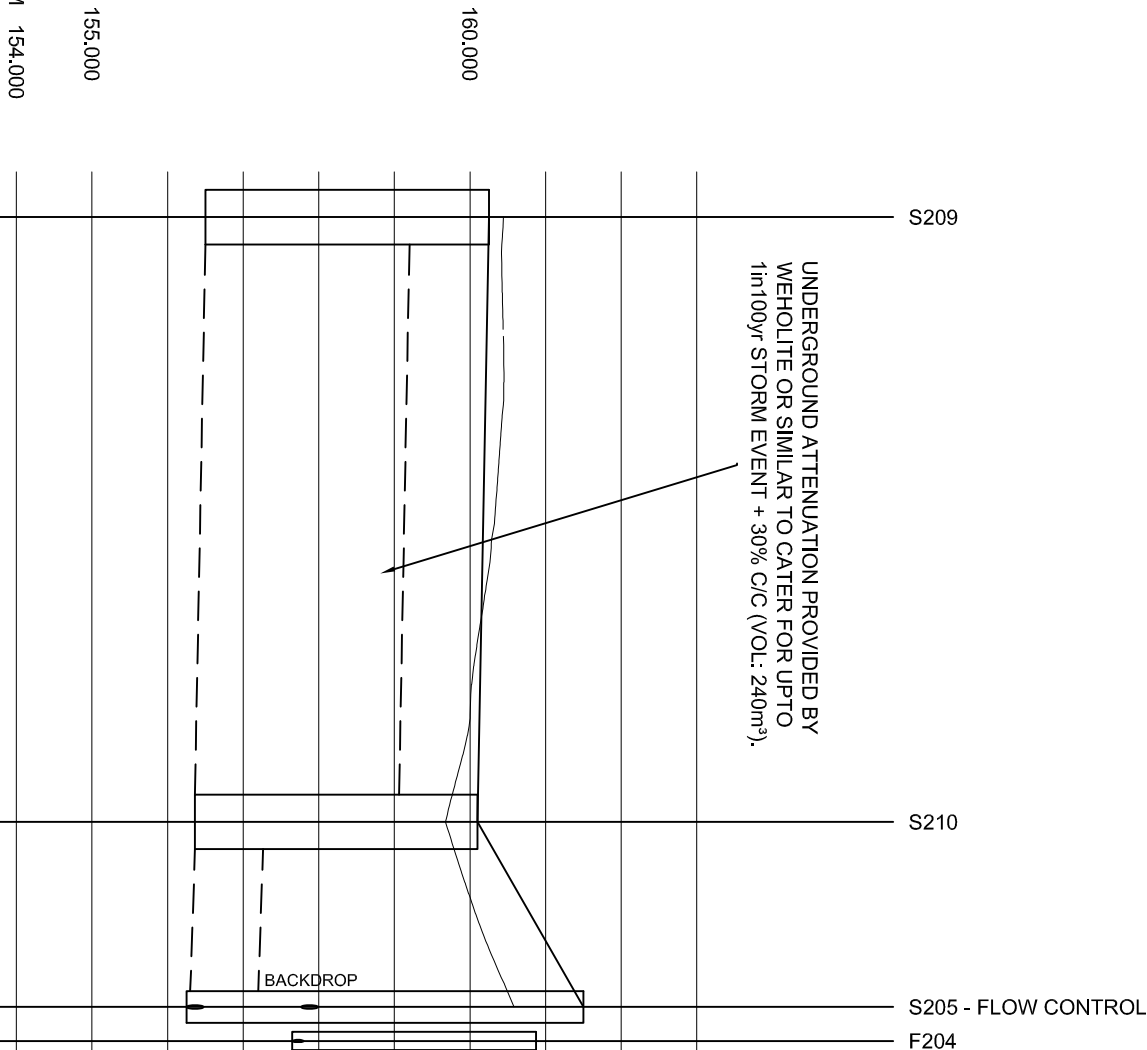
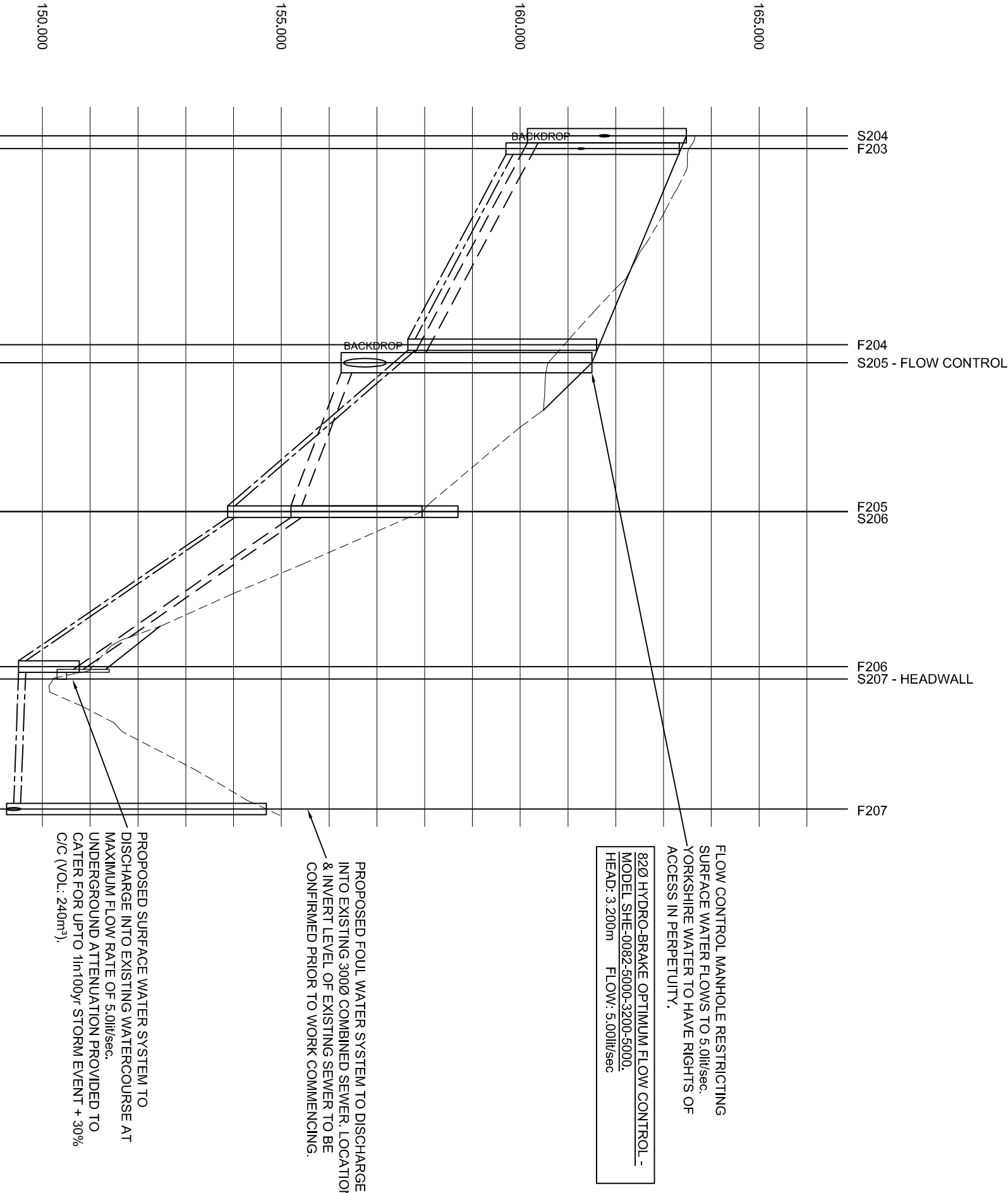




S209-S205				
DATUM 154.000				
GROUND LEVEL	160.444	160.449	160.325	160.042
STORMWATER COVER LEVEL	160.250			160.100
STORMWATER INVERT	156.500		156.362	156.362
STORMWATER DETAILS	Pipe 3.000 Dia 2700 Circular 1 in 250		Pipe 3.001 Dia 3000 Circular 1 in 197	
STORMWATER LENGTHS	40.000		12.236	
FLOWWATER COVER LEVEL				160.875
FLOWWATER INVERT				157.650
FLOWWATER DETAILS				
FLOWWATER LENGTHS				



S204-S207 & F203-F207				
DATUM 147.000				
GROUND LEVEL	163.664	162.787	161.253	160.134
STORMWATER COVER LEVEL	163.478		161.500	157.945
STORMWATER INVERT	161.650	160.150	157.800	156.250
STORMWATER DETAILS	Pipe 1.004 Dia 225 Circular 1 in 10	Pipe 1.005 Dia 225 Circular 1 in 15	Pipe 1.006 Dia 225 Circular 1 in 4	
STORMWATER LENGTHS	23.735	15.580	17.514	
FLOWWATER COVER LEVEL	163.330		158.698	150.771
FLOWWATER INVERT	161.200	157.650	153.878	149.500
FLOWWATER DETAILS	Pipe 1.003 Dia 150 Circular 1 in 10	Pipe 1.004 Dia 150 Circular 1 in 4	Pipe 1.005 Dia 150 Circular 1 in 4	Pipe 1.006 Dia 150 Circular 1 in 48
FLOWWATER LENGTHS		20.526	14.491	17.460

1. ALL ADAPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH 'SEWERS FOR ADOPTION 6th EDITION, THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATERS STANDARD SPECIFICATION FOR THE RELEVANT MATERIALS AND TECHNICAL SPECIFICATION AND RELEVANT ADAPTABLE SEWERS TO BE SUBMITTED (CERTIFIED TO WAS 65917 AND BS EN 13476)
2. MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 AND SHALL BE SUBMITTED TO THE LOCAL AUTHORITY FOR APPROVAL AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
4. ALL SEWER WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE PUBLIC SEWER WORKS ACT 1968 AND THE REQUIREMENTS OF THE LOCAL AUTHORITY FOR APPROVAL AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
5. COVER SLABS MUST CARRY THE FULL WEIGHT OF THE ROAD OR OTHER OVERLAPPING LOADS AND MUST BE SUBMITTED TO THE LOCAL AUTHORITY FOR APPROVAL AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
6. SUBPHASE RESISTANT CEMENT AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A 7. THE ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES DIA FROM KERB FACES AND SERVICE MARGINS.
8. SEWERS MUST HAVE 5m CLEARANCE FROM TREES AND HERDS. PLEASE ALSO REFER TO FIGURE 12. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BRIDS.
9. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4.48-02 (TABLE A2).
10. CRUSHING STRENGTHS TO BE AS FOLLOWS: 100mm DIA 40kN/m², 150mm DIA 40kN/m², 225mm DIA 40kN/m² and 300mm DIA 22kN/m².
11. ALL PIPEWORK 375mm DIA. OR GREATER TO BE CONCRETE CLASS 120. 50kN/m² MINIMUM.
12. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BRIDS.
13. YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE 'C' BRICK MANHOLES AND 1050mm DIA. OR 1500mm DIA. RINGS, WITH THE OPENING SIGHTED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE 90PHTT IS 1+1.5m.
14. ALL HIGHWAY WORKS AND MATERIAL TO CONFORM WITH HAKELSS COUNCIL SPECIFICATION, STANDARD BS EN 124. THOSE SIGHTED IN ACCESSWAYS AND KERB COURTS MUST BE SUITABLE FOR USE IN PEDESTRIAN AREAS.
15. SUBPHASE RESISTANT CEMENT (C20-D2) AND PRECAST CONCRETE PRODUCTS MUST BE USED.
16. ADAPTABLE SEWERS TO BE LAID IN MAXIMUM 3m LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY IN LONGER LENGTHS.
17. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTED BY YORKSHIRE WATER AND CLAYWARE CHANNELS ARE TO BE USED.

IF THE PIPE MATERIAL IS NOT SHOWN ON THE INDIVIDUAL PIPE LENGTH THEN, ALL PIPEWORK 300mm DIA. OR LESS TO BE VITRIFIED CLAY CONFORMING WITH BS 65. MINIMUM CRUSHING STRENGTHS TO BE AS FOLLOWS: 100mm DIA 40kN/m², 150mm DIA 40kN/m², 225mm DIA 45kN/m² and 300mm DIA 72kN/m².

ALL PIPEWORK 375mm DIA. OR GREATER TO BE CLASS 120 TO EN 1916 / BS 5911-1 : 2002.

ADAPTABLE SEWERS TO BE LAID IN CLASS 'S' GRANULAR BED & SURROUND.

NO.	DESCRIPTION	UNIT	QUANTITY
1	SEWER PIPING (300mm DIA. OR GREATER)	M	100.00
2	SEWER PIPING (150mm DIA. OR GREATER)	M	50.00
3	SEWER PIPING (75mm DIA. OR GREATER)	M	25.00
4	SEWER PIPING (37.5mm DIA. OR GREATER)	M	12.50
5	SEWER PIPING (19mm DIA. OR GREATER)	M	6.25
6	SEWER PIPING (9.5mm DIA. OR GREATER)	M	3.125
7	SEWER PIPING (4.75mm DIA. OR GREATER)	M	1.5625
8	SEWER PIPING (2.375mm DIA. OR GREATER)	M	0.78125
9	SEWER PIPING (1.1875mm DIA. OR GREATER)	M	0.390625
10	SEWER PIPING (0.59375mm DIA. OR GREATER)	M	0.1953125
11	SEWER PIPING (0.296875mm DIA. OR GREATER)	M	0.09765625
12	SEWER PIPING (0.1484375mm DIA. OR GREATER)	M	0.048828125
13	SEWER PIPING (0.07421875mm DIA. OR GREATER)	M	0.0244140625
14	SEWER PIPING (0.037109375mm DIA. OR GREATER)	M	0.01220703125
15	SEWER PIPING (0.0185546875mm DIA. OR GREATER)	M	0.006103515625
16	SEWER PIPING (0.00927734375mm DIA. OR GREATER)	M	0.0030517578125
17	SEWER PIPING (0.004638671875mm DIA. OR GREATER)	M	0.00152587890625
18	SEWER PIPING (0.0023193359375mm DIA. OR GREATER)	M	0.000762939453125
19	SEWER PIPING (0.00115966796875mm DIA. OR GREATER)	M	0.0003814697265625
20	SEWER PIPING (0.000579833984375mm DIA. OR GREATER)	M	0.00019073486328125
21	SEWER PIPING (0.0002899169921875mm DIA. OR GREATER)	M	0.000095367431640625
22	SEWER PIPING (0.00014495849609375mm DIA. OR GREATER)	M	0.0000476837158203125
23	SEWER PIPING (0.000072479248046875mm DIA. OR GREATER)	M	0.00002384185791015625
24	SEWER PIPING (0.0000362396240234375mm DIA. OR GREATER)	M	0.000011920928955078125
25	SEWER PIPING (0.00001811981201171875mm DIA. OR GREATER)	M	0.0000059604644775390625
26	SEWER PIPING (0.000009059906005859375mm DIA. OR GREATER)	M	0.00000298023223876953125
27	SEWER PIPING (0.0000045299530029296875mm DIA. OR GREATER)	M	0.000001490116119384765625
28	SEWER PIPING (0.00000226497650146484375mm DIA. OR GREATER)	M	0.0000007450580596923828125
29	SEWER PIPING (0.000001132488250732421875mm DIA. OR GREATER)	M	0.00000037252902984619140625
30	SEWER PIPING (0.0000005662441253662109375mm DIA. OR GREATER)	M	0.000000186264514923095703125
31	SEWER PIPING (0.00000028312206268310546875mm DIA. OR GREATER)	M	0.0000000931322574615478515625
32	SEWER PIPING (0.000000141561031341552734375mm DIA. OR GREATER)	M	0.000000046566128730773928125
33	SEWER PIPING (0.0000000707805156707763671875mm DIA. OR GREATER)	M	0.0000000232830643653869640625
34	SEWER PIPING (0.00000003539025783538818359375mm DIA. OR GREATER)	M	0.0000000116415321826934821875
35	SEWER PIPING (0.000000017695128917694091796875mm DIA. OR GREATER)	M	0.00000000582076609134674109375
36	SEWER PIPING (0.0000000088475644588470458984375mm DIA. OR GREATER)	M	0.000000002910383045673370546875
37	SEWER PIPING (0.00000000442378222942352294921875mm DIA. OR GREATER)	M	0.0000000014551915228366852734375
38	SEWER PIPING (0.000000002211891114711761474609375mm DIA. OR GREATER)	M	0.00000000072759576141834263671875
39	SEWER PIPING (0.0000000011059455573558807373046875mm DIA. OR GREATER)	M	0.000000000363797880709171318359375
40	SEWER PIPING (0.00000000055297277867794036865234375mm DIA. OR GREATER)	M	0.0000000001818989403545856591796875
41	SEWER PIPING (0.000000000276486389338970184326171875mm DIA. OR GREATER)	M	0.00000000009094947017729282958984375
42	SEWER PIPING (0.0000000001382431946694850921630859375mm DIA. OR GREATER)	M	0.00000000004547473508864641479145703125
43	SEWER PIPING (0.00000000006912159733474254608154296875mm DIA. OR GREATER)	M	0.00000000002273736754432320739596875
44	SEWER PIPING (0.000000000034560798667371273040771484375mm DIA. OR GREATER)	M	0.000000000011368683772161603697984375
45	SEWER PIPING (0.0000000000172803993336856365203859375mm DIA. OR GREATER)	M	0.0000000000056843418860801848989921875
46	SEWER PIPING (0.00000000000864019966684281826019296875mm DIA. OR GREATER)	M	0.00000000000284217094304009244949609375
47	SEWER PIPING (0.000000000004320099833421409131305984375mm DIA. OR GREATER)	M	0.000000000001421085471520046224748046875
48	SEWER PIPING (0.0000000000021600499167107045656529921875mm DIA. OR GREATER)	M	0.0000000000007105427357600231123740234375
49	SEWER PIPING (0.00000000000108002495835535228282649609375mm DIA. OR GREATER)	M	0.00000000000035527136788001155618701171875
50	SEWER PIPING (0.000000000000540012479177776141413248046875mm DIA. OR GREATER)	M	0.00000000000017763568394000577809350884375
51	SEWER PIPING (0.0000000000002700062395888880707066240234375mm DIA. OR GREATER)	M	0.000000000000088817841970002889046754421875
52	SEWER PIPING (0.00000000000013500311979444403535331201171875mm DIA. OR GREATER)	M	0.00000000000004440892098500144452337721875
53	SEWER PIPING (0.000000000000067501559897222217676656005884375mm DIA. OR GREATER)	M	0.00000000000002220446049250072226168861171875
54	SEWER PIPING (0.0000000000000337507799486111088383280029421875mm DIA. OR GREATER)	M	0.000000000000011102230246250036130844305884375
55	SEWER PIPING (0.00000000000001687538997430555441916400147109375mm DIA. OR GREATER)	M	0.0000000000000055511151231250180654221529421875
56	SEWER PIPING (0.000000000000008437694987152772209582000735546875mm DIA. OR GREATER)	M	0.00000000000000277555756156250903271107647109375
57	SEWER PIPING (0.0000000000000042188474935763861047910003677734375mm DIA. OR GREATER)	M	0.000000000000001387778780781254516355538235546875
58	SEWER PIPING (0.0000000000000021094237467881930523955001838890625mm DIA. OR GREATER)	M	0.0000000000000006938893903906252277777691177734375
59	SEWER PIPING (0.000000000000001054711873394096526197750009194453125mm DIA. OR GREATER)	M	0.0000000000000003469446951953125113888895585884375
60	SEWER PIPING (0.0000000000000005273559366970482630988750045972265625mm DIA. OR GREATER)	M	0.00000000000000017347234759765625569444779279421875
61	SEWER PIPING (0.00000000000000026367796834852413154943750022986328125mm DIA. OR GREATER)	M	0.000000000000000086736173798828125284722396397109375
62	SEWER PIPING (0.0000000000000001318389841742620657747187500114931640625mm DIA. OR GREATER)	M	0.0000000000000000433680868994140625142361196984609375
63	SEWER PIPING (0.000000000000000065919492087131032887359375000574658203125mm DIA. OR GREATER)	M	0.0000000000000000216840434497070312571180598484609375
64	SEWER PIPING (0.00000000000000003295974604356551644367968750002873291015625mm DIA. OR GREATER)	M	0.00000000000000001084202172485351562535590292423046875
65	SEWER PIPING (0.000000000000000016479873021782758221839843750001436645078125mm DIA. OR GREATER)	M	0.000000000000000005421010862426781251779501462110234375
66	SEWER PIPING (0.00000000000000000823993651089137911091992187500007183225390625mm DIA. OR GREATER)	M	0.000000000000000002710505431213390625088975073051171875
67	SEWER PIPING (0.000000000000000004119968255445689555459609375000035916126953125mm DIA. OR GREATER)	M	0.0000000000000000013552527156066953125044487753655884375
68	SEWER PIPING (0.00000000000000000205998412772284477772980468750000179580634765625mm DIA. OR GREATER)	M	0.0000000000000000006776263578033476562502224388767921875
69	SEWER PIPING (0.0000000000000000010299920638614238888649023437500000897903173828125mm DIA. OR GREATER)	M	0.00000000000000000033881317890167382812501112194388767921875
70	SEWER PIPING (0.0000000000000000005149960319307119444324511718750000044895158693828125mm DIA. OR GREATER)	M	0.000000000000000000169406589450836914062500556097194388767921875
71	SEWER PIPING (0.00000000000000000025749801596535972222162558593750000022447579346884375mm DIA. OR GREATER)	M	0.000000000000000000084703294725418457031250027804897194388767921875
72	SEWER PIPING (0.000000000000000000128749007982679861111081279687500000112237896734421875mm DIA. OR GREATER)	M	0.00000000000000000004235164736270922856250013940244897194388767921875
73	SEWER PIPING (0.0000000000000000000643745039913395305555406398437500000056118948367109375mm DIA. OR GREATER)	M	0.00000000000000000002117582368135461428125000697012244897194388767921875
74	SEWER PIPING (0.000000000000000000032187251995669765277770319921875000000280594741840625mm DIA. OR GREATER)	M	0.00000000000000000001058791184067730714062500034850612244897194388767921875
75	SEWER PIPING (0.0000000000000000000160936259978348826138851599609375000000140297370921875mm DIA. OR GREATER)	M	0.00000000000000000000529395592033865357031250001742530612244897194388767921875
76	SEWER PIPING (0.00000000000000000000804681299891744130694259804687500000000701486854609375mm DIA. OR GREATER)	M	0.000000000000000000002646977960169326785625000087126530612244897194388767921875
77	SEWER PIPING (0.000000000000000000004023406499458720653471299023437500000003507434273046875mm DIA. OR GREATER)	M	0.000000000000000000001323488980084663392812500004356326530612244897194388767921875
78	SEWER PIPING (0.0000000000000000000020117032497293603267356495117187500000017537171365234375mm DIA. OR GREATER)	M	0.000000000000000000000661744490042331696406250000217816326530612244897194388767921875
79	SEWER PIPING (0.000000000000000000001005851624864680163367824755884375000000087685856826171875mm DIA. OR GREATER)	M	0.000000000000000000000330872245021165848203125000010890816326530612244897194388767921875
80	SEWER PIPING (0.0000000000000000000005029258124323400816839123779687500000000438429284130884375mm DIA. OR GREATER)	M	0.000000000000000000000165436122510579244101562500000544540816326530612244897194388767921875
81	SEWER PIPING (0.00000000000000000000025146290621617004084195618890625000000002192146420654296875mm DIA. OR GREATER)	M	0.000000000000000000000082718061252528922050781250000027227240816326530612244897194388767921875
82	SEWER PIPING (0.000000000000000000000125731453108085020420977929453125000000010960732103271484375mm DIA. OR GREATER)	M	0.0000000000000000000000413590306262644610