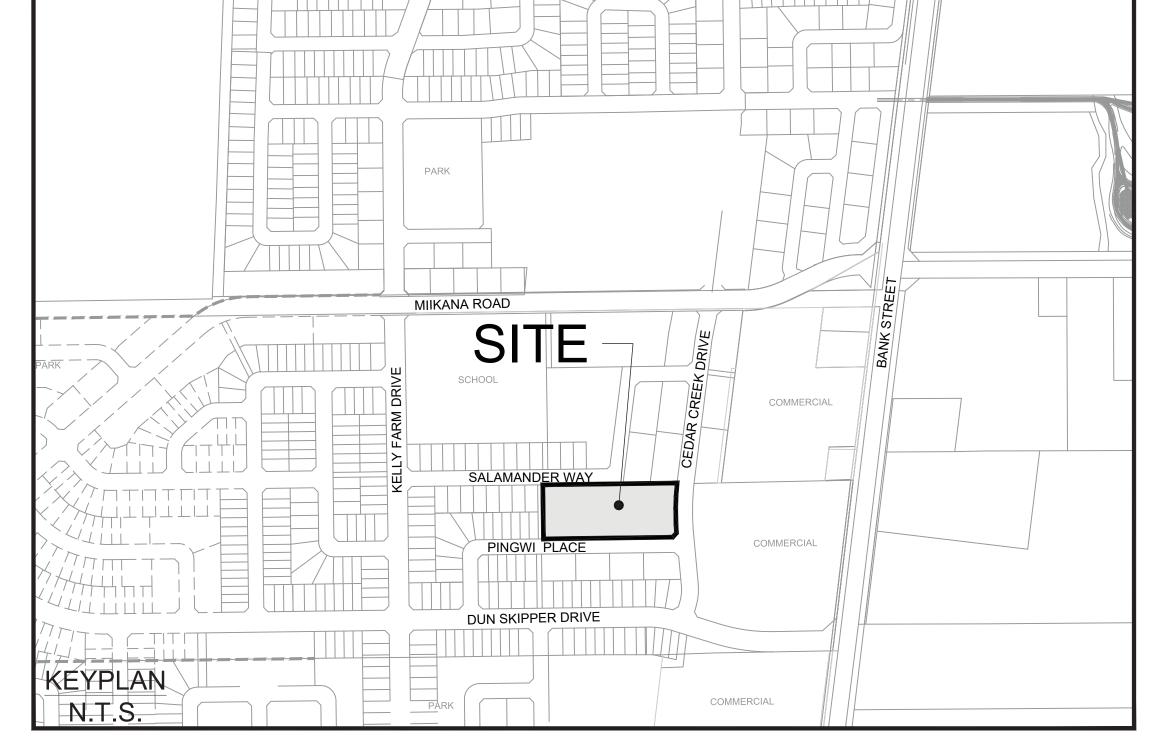


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# CONTRACT NO. 121793

## CITY OF OTTAWA

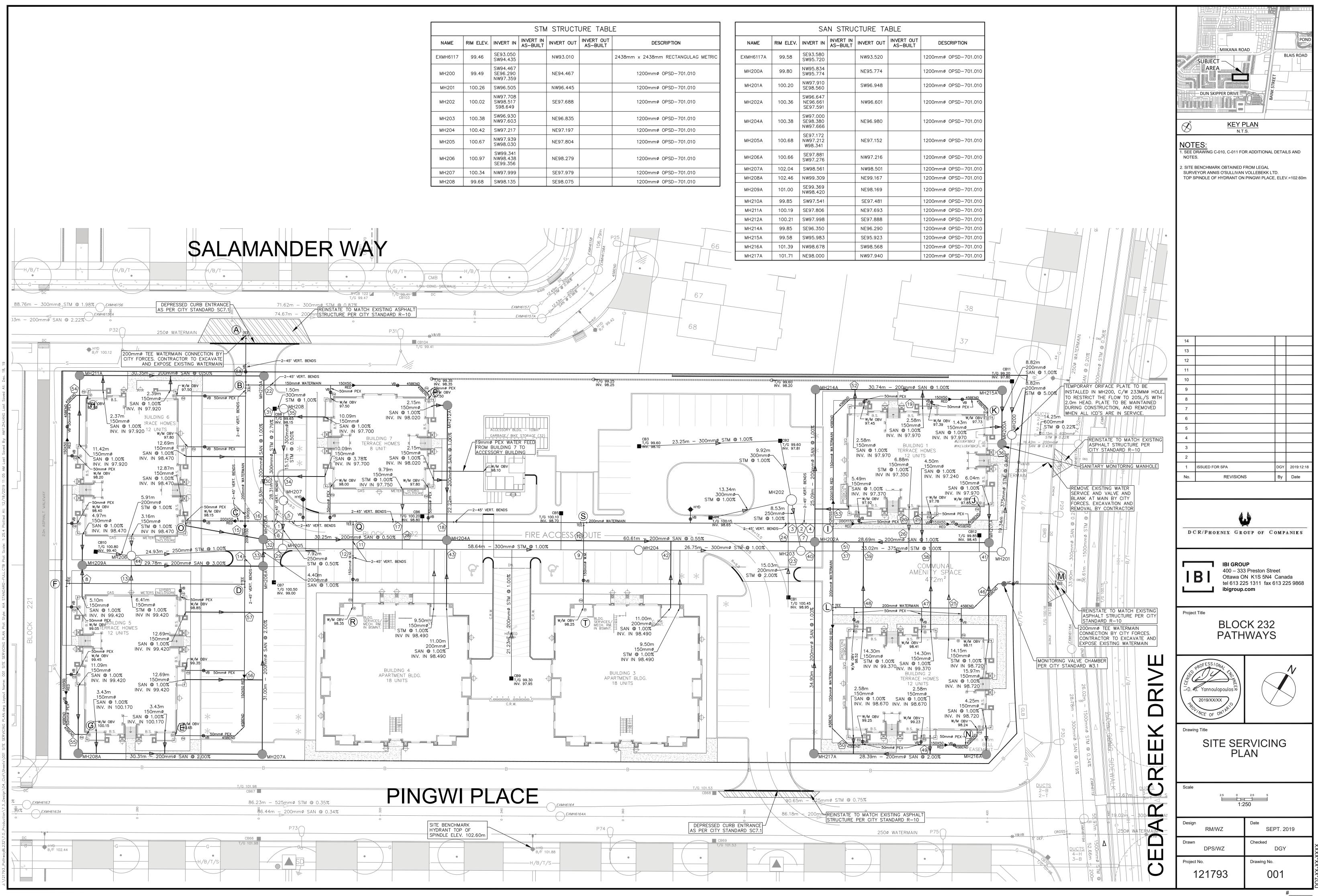






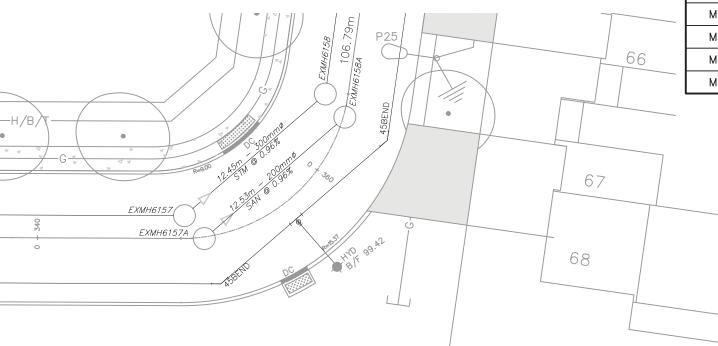


Sheet List Table						
Sheet Number	Sheet Title	Sheet Description				
-	COVER					
001	SITE SERVICING PLAN					
010	GENERAL NOTES, LEGEND AND CB DATA TABLE					
200	SITE GRADING PLAN					
400	SANITARY DRAINAGE AREA PLAN					
500	STORM DRAINAGE AREA PLAN					
600	SITE PONDING PLAN					
900	EROSION AND SEDIMENTATION CONTROL PLAN					



STM STRUCTURE TABLE							
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION	
EXMH6117	99.46	SE93.050 SW94.435		NW93.010		2438mm x 2438mm RECTANGULAG METRIC	
MH200	99.49	SW94.467 SE96.290 NW97.359		NE94.467		1200mmø OPSD-701.010	
MH201	100.26	SW96.505		NW96.445		1200mmø OPSD-701.010	
MH202	100.02	NW97.708 SW98.517 S98.649		SE97.688		1200mmø OPSD-701.010	
MH203	100.38	SW96.930 NW97.603		NE96.835		1200mmø OPSD-701.010	
MH204	100.42	SW97.217		NE97.197		1200mmø OPSD-701.010	
MH205	100.67	NW97.939 SW98.030		NE97.804		1200mmø OPSD-701.010	
MH206	100.97	SW99.341 NW98.438 SE99.356		NE98.279		1200mmø OPSD-701.010	
MH207	100.34	NW97.999		SE97.979		1200mmø OPSD-701.010	
MH208	99.68	SW98.135		SE98.075		1200mmø OPSD-701.010	

SAN STRUCTURE TABLE								
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OU AS-BUIL			
EXMH6117A	99.58	SE93.580 SW95.720		NW93.520				
MH200A	99.80	NW95.834 SW95.774		NE95.774				
MH201A	100.20	NW97.910 SE98.560		SW96.948				
MH202A	100.36	SW96.647 NE96.661 SE97.591		NW96.601				
MH204A	100.38	SW97.000 SE98.380 NW97.666		NE96.980				
MH205A	100.68	SE97.172 NW97.212 W98.341		NE97.152				
MH206A	100.66	SE97.881 SW97.276		NW97.216				
MH207A	102.04	SW98.561		NW98.501				
MH208A	102.46	NW99.309		NE99.167				
MH209A	101.00	SE99.369 NW98.420		NE98.169				
MH210A	99.85	SW97.541		SE97.481				
MH211A	100.19	SE97.806		NE97.693				
MH212A	100.21	SW97.998		SE97.888				
MH214A	99.85	SE96.350		NE96.290				
MH215A	99.58	SW95.983		SE95.923				
MH216A	101.39	NW98.678		SW98.568				
MH217A	101.71	NE98.000		NW97.940				



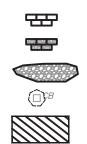
## UTILITY LEGEND

	TRANSFORMER
	TRANSFORMER C/W CONCRETE WINGS
HSG	HYDRO SWITCHGEAR
НМН	HYDRO MANHOLE
$\bigcirc$	BELL PEDESTAL
GLB	BELL GRADE LEVEL BOX (I=600mm, w=1200mm, d=750mm) C/W 1.5 x 3.0m easement
FC	BELL FIBER CABINET (I=1200mm, w=750mm, d=500mm)
CSP	BELL CENTRAL SPLITTING POINTS (I=1175mm, w=1200mm, d=500mm)
	ROGERS PEDESTAL
$\boxtimes$	ROGERS VAULT (I=1000mm, w=1000mm, d=1200mm) C/W 1m x 2m easement
P30 <sup>0</sup> →√	STREET LIGHT
D	STREET LIGHT DISCONNECT
ŀ	STREET LIGHT GROUNDING
———Н/В/Т/G/S———	JOINT UTILITY TRENCH
———Н———	HYDRO CABLE AND DUCTS
————В-———	BELL CABLE
	BELL DUCTS
T	ROGERS CABLE
TT	ROGERS DUCTS
G	GAS
S	STREET LIGHT CABLE
<u> </u>	UTILITY DROP LOCATIONS



 GAS
 STREET LIGHT CABLE
UTILITY DROP LOCATIONS
CONCRETE ENCASED DUCT BANK C/W NUMBER OF DUCTS
PROPOSED TREE LOCATION
ROOT MANAGEMENT BARRIER

## SEDIMENT EROSION LEGEND



IEAVY DUTY SILT FENCE	
SNOW FENCE	
STRAW BALE CHECK DAM	
TRAW BALE CHECK DAM WITH FILTER CLOTH	
ROCK CHECK DAM	
EDIMENT SACK PLACED UNDER EXISTING CB COVER	
EMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON WOVEN FILTER CLOTH	

### GENERAL LEGEND

	LIMIT OF CONSTRUCTION
	PHASING LINE
	BARRIER CURB
	MOUNTABLE CURB
	DEPRESSED BARRIER CURB
	CONCRETE SIDEWALK
	- TACTILE WALKING SURFACE INDICATOR
	ASPHALT SIDEWALK / PATHWAY
JUS /	BUS STOP CONCRETE / ASPHALT

### **ROADWAY STRUCTURE:**

HEAVY-DUTY	ASPHALT AREA :(690mm)
40mm	- SUPERPAVE 12.5 ASPH
50mm 150mm	- SUPERPAVE 19.0 ASPH - OPSS GRANULAR "A" C
450mm	- OPSS GRANULAR "B" T

SUPERPAVE 12.5 ASPHALTIC CONCRETE SUPERPAVE 19.0 ASPHALTIC CONCRETE OPSS GRANULAR "A" CRUSHED STONE OPSS GRANULAR "B" TYPE II

#### LIGHT-DUTY ASPHALT AREA :(615mm)

- SUPERPAVE 12.5 ASPHALTIC CONCRETE 40mm - SUPERPAVE 19.0 ASPHALTIC CONCRETE 50mm 150mm - OPSS GRANULAR "A" CRUSHED STONE 375mm - OPSS GRANULAR "B" TYPE II

## SERVICING LEGEND

MH118A 200mmø SAN MH109 MH118 825mmø STM 900mmø STM \_\_\_\_\_200Ø WATERMAIN WATERMAIN CB100 T/G 104.10 STREET CATCHBASIN C/W TOP 0 \_\_\_\_\_ CICB10 G/G 104.2 DCICB101 G/G 104.25 \_\_\_\_\_CBMHi T/G 103.54 /G 104.10 REAR YARD CATCHBASIN IN ROA ■ RYCB T/G 104.35 GT/G 104.50 NV 103.50 <u>T/G</u> 104.35 INV 103.35 T/G 104.35 INV 103.35 PERFORATED REAR YARD SUBD 300mmø CSP ⊗ <sup>V&VB</sup> ⊗<sup>V&VC</sup> 2000 WM RED 1500 WM WATERMAIN REDUCER  $\triangleleft$  $\triangleleft$ BH 12 102.00 INFERRED BEDROCK (SEE GEOT HGL 101.79

CURB INLET CATCHBASIN C/W G 104.10 DOUBLE CATCHBASIN C/W TOP DITCH INLET CATCHBASIN C/W ( CATCHBASIN MANHOLE C/W TO DITCH INLET MANHOLE C/W TO ICD LOCATION

#### REAR YARD "THREE WAY" CATC GRATE AND INVERT OUT

CSP CULVERT C/W DIAMETER VALVE AND VALVE BOX VALVE AND VALVE CHAMBER FIRE HYDRANT C/W BOTTOM O SINGLE SERVICE LOCATION DOUBLE SERVICE LOCATION

## GRADING LEGEND

HGL 101.79

108 102.40

\_\_\_\_\_ PROPOSED DITCH C/W FLOW D 1.3%  $\subset \exists$ <sup>×</sup>104.62 ×104.40 (s) ×104.50 (s)HP 104.60 103.59 86.45 EX× \_\_\_\_\_96.79-\_\_\_ 

105.30 T/W<sup>×</sup>

103.50 в/w<sup>×</sup>

Ð

F.FL. 96.32 T.FND. 95.96 U.S.F. 93.36 <u>RISERS 0</u> M.U.S.F

WU

WO

NS

BS

BACKSPLIT UNIT (1.5m frost cover **F** NOISE FENCE LOCATION

NOISE FENCE GATE

LOCATION	AREA (HA)	RELEASE RATE (L/S)	Head (M)	
	0.081			
MH202	0.066	50	2.38	Custom IDE
MH202	0.037	52		Custom IPE
	0.038			
CB5	0.054	17	1.42	Custom IPE
CB6	0.074	17	1.50	Custom IPE
MU207	0.100	50	1.00	Queters IDE)
MH207	0.086	58	1.98	Custom IPE
CB9	0.038	17	1.25	Full Capture
CB10	0.029	10	1.45	Custom HYE
CB11	0.119	27	1.51	Standard IPE
CB12	0.084	7	1.55	Custom HYE
TOTAL	0.806	205	-	

			STATION		• • •	WATERMAIN		AS-BUILT WATERMAIN	COMMENTS
GEND		A	0+000.00 0+004.77 0+005.60	CONNECT TO EX. 250Ø W/M WITH 250Ø x 200Ø TEE 200Ø – 45° VERTICAL BEND 200Ø – 45° VERTICAL BEND	<u>99.69</u> 99.83 99.86	97.38 97.43 98.03	2.31 2.40 1.83		* INSULATE PER W
		B	0+006.00 0+008.17	2000 - 43 VENTICAL BEND 2000 V&VB 1500 x 2000 TEE	99.87	98.03 98.03	1.83 1.84 1.79		* INSULATE PER W
			0+008.67 0+009.47	2000 – 45° VERTICAL BEND 2000 – 45° VERTICAL BEND	99.80 99.77	98.03 97.37	1.77 2.40		* INSULATE PER W
SANITARY SEWER			0+010.00 0+018.39	50Ø SERVICE CONNECTION BUILDING 6 50Ø SERVICE CONNECTION BUILDING 6	99.76 100.07	97.36 97.67	2.40 2.40		
STORM SEWER - LESS	S THAN 900Ø		0+029.19 0+029.84	200Ø – 45° VERTICAL BEND 200Ø – 45° VERTICAL BEND	100.56 100.58	98.16 98.60	2.40 1.98		* INSULATE PER W
STORM SEWER - 900@	Ø AND GREATER	C	0+030.59 0+031.47	200Ø x 200Ø CROSS 200Ø x 150Ø REDUCER	100.62 100.65	98.70 98.77	1.91 1.88		* INSULATE PER W * INSULATE PER W
WATERMAIN			0+032.51 0+036.48	- 1500 – 45° VERTICAL BEND	100.70 100.79	98.98 98.65	1.71 2.14		* INSULATE PER W * INSULATE PER W
STREET CATCHBASIN	I C/W TOP OF GRATE	D	0+037.13 0+041.00	150Ø – 45° VERTICAL BEND 200Ø x 150Ø TEE	100.76 100.80	98.36 98.40	2.40 2.40		
CURB INLET CATCHBA	ASIN C/W GUTTER GRADE		0+055.25 0+056.12	50Ø SERVICE CONNECTION BUILDING 5 150Ø x 50Ø REDUCER	101.29 101.33	98.89 98.93	2.40 2.40		
	N C/W TOP OF GRATE		0+064.50 0+066.62	50Ø - 45° BEND 50Ø - 45° BEND	101.66 101.78	99.26 99.38	2.40 2.40		
	ASIN C/W GUTTER GRADE	E	0+071.83 0+076.47	50Ø V&VB 50Ø SERVICE CONNECTION BUILDING 5	102.01 102.33	99.61 99.93	2.40 2.40		
	LE C/W TOP OF GRATE	D	_	150Ø x 150Ø TEE	100.80	98.40	2.40		
			0+010.60 0+017.20	50Ø SERVICE CONNECTION BUILDING 5	101.34 101.29	98.94 98.88	2.40 2.42		
	ASIN IN ROAD CONNECTING STRUCTURE	F	0+020.20 0+029.35	- 150Ø x 150Ø TEE	101.27 101.18	98.86 98.78	2.42 2.40		
/W SOLID GRATE		F	0+000.00	150Ø x 150Ø TEE	101.18	98.78	2.40		
EAR YARD "TEE" CA ND INVERT OUT	TCHBASIN (300Ø) C/W TOP OF GRATE		0+003.88 0+015.00	50Ø SERVICE CONNECTION BUILDING 5 50Ø SERVICE CONNECTION BUILDING 5	101.36 101.81	98.96 99.41	2.40 2.40		
EAR YARD "END" CA ND INVERT OUT	TCHBASIN (300Ø) C/W TOP OF GRATE		0+018.00 0+020.13	150Ø x 50Ø REDUCER 50Ø V&VB	101.94 102.03	99.54 99.63	2.40 2.40		
	/ ANGLED " CATCHBASIN (450Ø) C/W TOP OF		0+023.37 0+025.49	50Ø - 45° BEND 50Ø - 45° BEND	102.16 102.35	99.76 99.95	2.40 2.40		
RATE AND INVERT C		G	0+027.47	50Ø SERVICE CONNECTION BUILDING 5	102.46	100.06	2.40		
EAR YARD "THREE V RATE AND INVERT C	NAY" CATCHBASIN (450Ø) C/W TOP OF DUT	F	0+000.00 0+009.88	150Ø x 150Ø TEE 50Ø SERVICE CONNECTION BUILDING 6	101.18 100.84	98.78 98.44	2.40 2.40		
ERFORATED REAR Y	ARD SUBDRAIN		0+021.00 0+023.66	50Ø SERVICE CONNECTION BUILDING 6 150Ø x 50Ø REDUCER	100.57 100.50	98.17 98.10	2.40 2.40		
SP CULVERT C/W DI	AMETER		0+025.82 0+029.50	50Ø V&VB 50Ø - 45° BEND	100.45 100.36	98.05 98.15	2.40 2.21		* INSULATE PER \
ALVE AND VALVE BC		н	0+031.62 0+033.44	50Ø – 45° BEND 50Ø SERVICE CONNECTION BUILDING 6	100.33 100.33	98.30 98.30	2.03 2.03		* INSULATE PER V * INSULATE PER V
		С	0+000.00	200Ø x 200Ø CROSS	100.62	98.70	1.91		* INSULATE PER \
	OTTOM OF FLANGE ELEVATION		0+004.50 0+005.30	200Ø – 45° VERTICAL BEND 200Ø – 45° VERTICAL BEND	100.52 100.51	98.31 97.40	2.22 3.10		* INSULATE PER \
ATERMAIN REDUCE			0+007.35 0+008.15	200Ø – 45° VERTICA L BEND 200Ø – 45° VERTICA L BEND	100.46 100.45	97.44 98.05	3.02 2.40		
RTICAL BEND LOCA			0+009.55 0+014.00	200Ø x 150Ø HY DRA NT TEE 50Ø SERVICE CONNECTION BUILDING 7	100.45 100.41	98.05 98.01	2.40 2.40		
UBLE SERVICE LOO		Q	0+017.80 0+024.36	150Ø SERVICE CONNECTION BUILDING 4 200Ø – 45° VERTICA L BEND	100.35 100.29	97.95 97.89	2.40 2.40		
			0+024.84 0+030.18	200Ø – 45° VERTICA L BEND 50Ø SERVICE CONNECTION BUILDING 7	100.29 100.25	98.31 98.34	1.98 1.91		* INSULATE PER \ * INSULATE PER \
	(SEE GEOTECHNICAL REPORT) DRAULIC GRADE LINE AT MANHOLE		0+034.35 0+034.83	2000 – 45° VERTICAL BEND 2000 – 45° VERTICAL BEND	100.34 100.35	98.37 97.95	1.96 2.40		* INSULATE PER \
	I HYDRAULIC GRADE LINE AT MANHOLE	S	0+055.78 0+073.36	150Ø SERVICE CONNECTION BUILDING 3 200Ø x 150Ø HY DRA NT TEE	100.25 100.28	97.85 97.88	2.40 2.40		
	ING ELEVATION (WITH LOT #)		0+089.03 0+089.59	2000 – 45° VERTICAL BEND 2000 – 45° VERTICAL BEND	100.22 100.21	97.82 98.32	2.40 1.89		* INSULATE PER
	R / WATERMAIN TRENCH		0+091.84 0+092.40	2000 – 45° VERTICAL BEND 2000 – 45° VERTICAL BEND	100.20 100.22	98.32 97.82	1.88 2.40		* INSULATE PER
		1	0+096.86 0+100.60	200Ø x 200Ø CROSS 200Ø x 150Ø REDUCER	100.43 100.33	98.03 97.93	2.40 2.40		
			0+101.13 0+107.35	50Ø SERVICE CONNECTION BUILDING 1	100.32 100.18	97.92 97.94	2.40 2.24		* INSULATE PER \
			0+110.42 0+113.00	- 50Ø SERVICE CONNECTION BUILDING 1	100.18	97.94 97.78	2.24		* INSULATE PER \
						97.78	2.40		
			0+115.74 0+117.15	150Ø x 50Ø REDUCER 50Ø V&VB	100.18 100.18				
END			0+115.74 0+117.15 0+119.55 0+121.67	150Ø x 50Ø REDUCER 50Ø V&VB 50Ø - 45° BEND 50Ø - 45° BEND	100.18 100.18 100.18 100.23	97.78 97.78 97.78 97.83	2.40 2.40 2.40 2.40		
	/W FLOW DIRECTION	J	0+117.15 0+119.55	50Ø V&VB 50Ø - 45° BEND	100.18 100.18	97.78 97.78	2.40 2.40		
ROPOSED SWALE C/	/W FLOW DIRECTION W FLOW DIRECTION AND SLOPE	   	0+117.15 0+119.55 0+121.67	50Ø V&VB 50Ø - 45° BEND 50Ø - 45° BEND	100.18 100.18 100.23 100.25 100.43 100.36	97.78 97.78 97.83	2.40 2.40 2.40		
ROPOSED SWALE C/ ROPOSED DITCH C/V .OPE C/W FLOW DIR	W FLOW DIRECTION AND SLOPE RECTION		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00	50Ø V&VB 50Ø – 45° BEND 50Ø – 45° BEND 50Ø SERVICE CONNECTION BUILDING 1 200Ø x 200Ø CROSS	100.18 100.18 100.23 100.25 100.43 100.36 99.94 99.89	97.78 97.78 97.83 97.85 98.03 97.96 97.54 97.29	2.40 2.40 2.40 2.40 2.40		
ROPOSED SWALE C/ ROPOSED DITCH C/V ROPE C/W FLOW DIR AJOR OVERLAND FL	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90	50Ø V&VB         50Ø – 45° BEND         50Ø – 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         200Ø x 200Ø CROSS         200Ø x 150Ø REDUCER         150Ø – 45° BEND	100.18 100.18 100.23 100.25 100.43 100.36 99.94 99.89 99.89 99.89 99.89	97.78 97.78 97.83 97.85 98.03 97.96 97.96 97.54 97.29 97.45 97.39	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
ROPOSED SWALE C/ ROPOSED DITCH C/V ROPE C/W FLOW DIR AJOR OVERLAND FL ROPOSED SPOT GR/	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90 0+021.71 0+024.03 0+035.16 0+038.18 0+040.20	50Ø V&VB           50Ø – 45° BEND           50Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 200Ø CROSS           200Ø × 150Ø REDUCER           150Ø – 45° BEND           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø V&VB	100.18 100.18 100.23 100.25 100.43 100.36 99.94 99.89 99.89 99.89 99.89 99.89 99.89	97.78 97.78 97.83 97.85 98.03 97.96 97.54 97.29 97.45 97.39 97.48 97.50	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
OPOSED SWALE C/ OPOSED DITCH C/V OPE C/W FLOW DIR JOR OVERLAND FL OPOSED SPOT GR/ OPOSED SWALE GI	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90 0+021.71 0+024.03 0+035.16 0+038.18 0+040.20 0+042.89 0+045.02	50Ø V&VB         50Ø – 45° BEND         50Ø – 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         200Ø x 200Ø CROSS         200Ø x 150Ø REDUCER         150Ø – 45° BEND         150Ø – 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         50Ø SERVICE CONNECTION BUILDING 1         50Ø SERVICE CONNECTION BUILDING 1         50Ø - 45° BEND         50Ø - 45° BEND	100.18 100.18 100.23 100.25 100.43 100.36 99.94 99.89 99.89 99.89 99.89 99.89 99.89 99.89 99.89 99.89 99.88 99.80 99.88	97.78 97.83 97.85 98.03 97.96 97.54 97.29 97.45 97.39 97.48 97.50 97.46 97.63	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
COPOSED SWALE C/ COPOSED DITCH C/V OPE C/W FLOW DIR AJOR OVERLAND FL COPOSED SPOT GR/ COPOSED SWALE GI	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90 0+021.71 0+024.03 0+035.16 0+038.18 0+040.20 0+042.89 0+045.02 0+046.27	50Ø V&VB         50Ø – 45° BEND         50Ø – 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         200Ø × 200Ø CROSS         200Ø × 150Ø REDUCER         150Ø – 45° BEND         150Ø – 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         50Ø SERVICE CONNECTION BUILDING 1         50Ø × 50Ø REDUCER         50Ø = 45° BEND         50Ø SERVICE CONNECTION BUILDING 1	100.18 100.18 100.23 100.25 100.43 100.36 99.94 99.89 99.89 99.89 99.89 99.89 99.89 99.89 99.89 99.88 99.90 99.88 99.90 99.86 100.03 100.13	97.78 97.83 97.85 98.03 97.96 97.54 97.54 97.45 97.45 97.45 97.48 97.50 97.46 97.63 97.73	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
OPOSED SWALE C/ OPOSED DITCH C/V OPE C/W FLOW DIR JOR OVERLAND FL OPOSED SPOT GR/ OPOSED SWALE GI	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE	J J I 	0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90 0+021.71 0+024.03 0+035.16 0+038.18 0+040.20 0+042.89 0+045.02 0+045.02 0+046.27	50Ø V&VB         50Ø – 45° BEND         50Ø – 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         200Ø × 200Ø CROSS         200Ø × 150Ø REDUCER         150Ø – 45° BEND         150Ø – 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         50Ø SERVICE CONNECTION BUILDING 1         50Ø SERVICE CONNECTION BUILDING 1         50Ø - 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         200Ø x 200Ø TEE         50Ø SERVICE CONNECTION BUILDING 2	100.18 100.18 100.23 100.25 100.43 100.36 99.94 99.89 99.89 99.89 99.89 99.89 99.89 99.89 99.88 99.90 99.88 99.90 99.86 100.03 100.13 100.91 100.92	97.78 97.78 97.83 97.85 98.03 97.96 97.54 97.54 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.46 97.63 97.73 98.51 98.52	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
OPOSED SWALE C/ OPOSED DITCH C/V OPE C/W FLOW DIR JOR OVERLAND FL OPOSED SPOT GR/ OPOSED SWALE GI OPOSED SWALE HI T CORNER GRADE	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE RADE		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90 0+021.71 0+024.03 0+035.16 0+038.18 0+040.20 0+042.89 0+045.02 0+045.02 0+046.27 0+000.00 0+003.51 0+014.64 0+021.18	$50\emptyset V\&VB$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $200\emptyset \times 200\emptyset$ CROSS $200\emptyset \times 150\emptyset$ REDUCER $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $200\emptyset \times 200\emptyset$ TEE $50\emptyset$ SERVICE CONNECTION BUILDING 2 $50\emptyset$ SERVICE CONNECTION BUILDING 2 $50\emptyset$ SERVICE CONNECTION BUILDING 2	100.18           100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.89           99.80           99.80           99.80           99.80           99.80           99.80           99.80           99.80           99.80           99.80           99.80           99.80           99.81           100.03           100.03           100.91           100.92           100.81           100.69	97.78 97.78 97.83 97.85 98.03 97.96 97.54 97.54 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.50 97.46 97.63 97.73 98.51 98.52 98.41 98.11	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
OPOSED SWALE C/ OPOSED DITCH C/V OPE C/W FLOW DIR JOR OVERLAND FL OPOSED SPOT GR/ OPOSED SWALE GI OPOSED SWALE HI I CORNER GRADE	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE RADE		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90 0+021.71 0+024.03 0+035.16 0+035.16 0+045.02 0+045.02 0+045.02 0+045.02 0+046.27 0+000.00 0+003.51 0+014.64 0+021.18 0+023.18 0+028.87	$50\emptyset V\&VB$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $200\emptyset \times 200\emptyset$ CROSS $200\emptyset \times 150\emptyset$ REDUCER $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $200\emptyset \times 200\emptyset$ TEE $50\emptyset$ SERVICE CONNECTION BUILDING 2 $50\emptyset$ SERVICE CONNECTION BUILDING 2 $50\emptyset$ SERVICE CONNECTION BUILDING 2 $200\emptyset - 45^{\circ}$ BEND	100.18           100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.89           99.80           99.81           100.03           100.03           100.13           100.91           100.92           100.81           100.69           100.65           100.40	97.78 97.78 97.83 97.85 98.03 97.96 97.54 97.59 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.50 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.41 98.25 98.00	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
DPOSED SWALE C/ DPOSED DITCH C/V DPE C/W FLOW DIR JOR OVERLAND FL DPOSED SPOT GR/ DPOSED SWALE GI DPOSED SWALE GI DPOSED SWALE HI CORNER GRADE INTO EXISTING GF L STATIC PONDING TAINING WALL	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE RADE G GRADE		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90 0+021.71 0+024.03 0+035.16 0+035.16 0+035.16 0+045.02 0+045.02 0+045.02 0+046.27 0+000.00 0+003.51 0+014.64 0+021.18 0+023.18 0+028.87 0+029.87 0+031.37	$50\emptyset \vee \&VB$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $200\emptyset \times 200\emptyset$ CROSS $200\emptyset \times 150\emptyset$ REDUCER $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset \times 50\emptyset$ REDUCER $50\emptyset - 45^{\circ}$ BEND $50\emptyset = 45^{\circ}$ BEND $50\emptyset SERVICE CONNECTION BUILDING 1200\emptyset \times 200\emptyset TEE50\emptyset SERVICE CONNECTION BUILDING 250\emptyset SERVICE CONNECTION BUILDING 250\emptyset SERVICE CONNECTION BUILDING 2200\emptyset - 45^{\circ} BEND200\emptyset MONITORING VALVE CHAMBER200\emptyset V&VB$	100.18           100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.03           100.03           100.13           100.91           100.92           100.81           100.65           100.40           100.33	97.78 97.78 97.83 97.85 98.03 97.96 97.54 97.54 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.50 97.46 97.50 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.41 98.52 98.00 97.98 97.93	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
POSED SWALE C/ POSED DITCH C/V PE C/W FLOW DIR OR OVERLAND FL POSED SPOT GR/ POSED SWALE HI CORNER GRADE NTO EXISTING GF STATIC PONDING AINING WALL OF RETAINING W RACING 3:1 MAXIN	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE IGH POINT GRADE C/W EXISTING GRADE RADE G GRADE		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90 0+021.71 0+024.03 0+035.16 0+035.16 0+035.16 0+045.02 0+045.02 0+045.02 0+046.27 0+000.00 0+003.51 0+014.64 0+021.18 0+023.18 0+023.18 0+028.87 0+029.87 0+031.37 0+038.37	50Ø V&VB         50Ø – 45° BEND         50Ø = 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         200Ø × 200Ø CROSS         200Ø × 150Ø REDUCER         150Ø – 45° BEND         150Ø – 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         50Ø SERVICE CONNECTION BUILDING 1         50Ø SERVICE CONNECTION BUILDING 1         50Ø - 45° BEND         50Ø - 45° BEND         50Ø - 45° BEND         50Ø - 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         200Ø × 200Ø TEE         50Ø SERVICE CONNECTION BUILDING 2         50Ø SERVICE CONNECTION BUILDING 2         50Ø SERVICE CONNECTION BUILDING 2         200Ø × 200Ø TEE         50Ø SERVICE CONNECTION BUILDING 2         200Ø × 200Ø TEE         50Ø SERVICE CONNECTION BUILDING 2         200Ø × 200Ø TEE         50Ø SERVICE CONNECTION BUILDING 2         200Ø - 45° BEND         200Ø MONITORING VALVE CHAMBER         200Ø V&VB         CONNECT TO EXISTING WTH 250Ø × 200Ø TEE	100.18           100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.03           100.03           100.13           100.91           100.92           100.81           100.69           100.65           100.33           100.33	97.78 97.78 97.83 97.85 98.03 97.96 97.54 97.59 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.45 97.46 97.50 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.41 98.52 98.41 98.52 98.41 98.52 98.00 97.98 97.93 97.79	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
POSED SWALE C/ POSED DITCH C/V PE C/W FLOW DIR OR OVERLAND FL POSED SPOT GR/ POSED SWALE GI POSED SWALE HI CORNER GRADE NTO EXISTING GF L STATIC PONDING AINING WALL OF RETAINING W RACING 3:1 MAXIM	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE RADE G GRADE VALL GRADE		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90 0+021.71 0+024.03 0+035.16 0+035.16 0+035.16 0+045.02 0+045.02 0+045.02 0+046.27 0+000.00 0+003.51 0+014.64 0+021.18 0+023.18 0+023.18 0+028.87 0+029.87 0+031.37 0+038.37	50Ø V&VB         50Ø – 45° BEND         50Ø = 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         200Ø × 200Ø CROSS         200Ø × 150Ø REDUCER         150Ø – 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         50Ø - 45° BEND         50Ø - 45° BEND         50Ø - 45° BEND         50Ø - 45° BEND         50Ø SERVICE CONNECTION BUILDING 1         200Ø × 200Ø TEE         50Ø SERVICE CONNECTION BUILDING 2         200Ø - 45° BEND         200Ø MONITORING VALVE CHAMBER         200Ø V&VB         CONNECT TO EXISTING WITH 250Ø x 200Ø TEE         200Ø x 200Ø CROSS         200Ø x 200Ø CROSS         200Ø x 200Ø TEE	100.18           100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.03           100.03           100.13           100.91           100.92           100.81           100.65           100.40           100.33           100.33           100.10           100.33           100.43           100.91	97.78 97.78 97.83 97.85 98.03 97.96 97.54 97.59 97.45 97.73 97.45 97.73 98.51 98.52 98.00 97.93	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
POSED SWALE C/ POSED DITCH C/V PE C/W FLOW DIR OR OVERLAND FL POSED SPOT GR/ POSED SWALE GI POSED SWALE HI CORNER GRADE NTO EXISTING GF STATIC PONDING AINING WALL OF RETAINING W RACING 3:1 MAXIM POSED BOTTOM O SSURE REDUCING ed on the higher of SHED FLOOR ELE	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE RADE G GRADE VALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE the sewer obverts, or hydraulic grade line)		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90 0+021.71 0+024.03 0+035.16 0+035.16 0+035.16 0+045.02 0+045.02 0+045.02 0+046.27 0+000.00 0+003.51 0+014.64 0+021.18 0+023.18 0+028.87 0+029.87 0+029.87 0+031.37 0+038.37 0+000.00 0+013.81 0+016.94 0+033.71	$50\emptyset \vee \&VB$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $200\emptyset \times 200\emptyset$ CROSS $200\emptyset \times 150\emptyset$ REDUCER $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset \times 50\emptyset$ REDUCER $50\emptyset - 45^{\circ}$ BEND $50\emptyset = 45^{\circ}$ BEND $50\emptyset \times 200\emptyset$ TEE $50\emptyset \times 200\emptyset$ TEE $50\emptyset \times ERVICE CONNECTION BUILDING 250\emptyset \times ERVICE CONNECTION BUILDING 2200\emptyset - 45^{\circ} BEND200\emptyset X 200\emptyset CROSS200\emptyset X 200\emptyset TEE200\emptyset X 200\emptyset CROSS200\emptyset X 200\emptyset TEE200\emptyset X 200\emptyset TEE200\emptyset X 200\emptyset CROSS200\emptyset X 150\emptyset REDUCER150\emptyset - 45^{\circ} BEND$	100.18           100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.03           100.03           100.91           100.92           100.81           100.69           100.65           100.33           100.33           100.33           100.40           100.33           100.40           100.33           100.10           100.43           100.91           101.12           101.67	97.78 97.78 97.83 97.85 98.03 97.96 97.54 97.59 97.45 97.45 97.45 97.45 97.45 97.50 97.46 97.50 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.41 98.52 98.41 98.52 98.00 97.98 97.93 97.93 97.79 98.03 98.51 98.72 99.27	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
POSED SWALE C/ POSED DITCH C/V PE C/W FLOW DIR OR OVERLAND FL POSED SPOT GR/ POSED SWALE GI POSED SWALE GI CORNER GRADE NTO EXISTING GF STATIC PONDING AINING WALL OF RETAINING W RACING 3:1 MAXIN POSED BOTTOM SSURE REDUCING ed on the higher of SHED FLOOR ELE OF FOUNDATION ERSIDE OF FOOT	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE RADE G GRADE VALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE the sewer obverts, or hydraulic grade line) VATION I ELEVATION		0+117.15 0+119.55 0+121.67 0+123.04 0+000.00 0+003.56 0+017.90 0+021.71 0+024.03 0+035.16 0+035.16 0+038.18 0+040.20 0+042.89 0+045.02 0+046.27 0+046.27 0+000.00 0+003.51 0+014.64 0+021.18 0+023.18 0+023.18 0+028.87 0+029.87 0+029.87 0+031.37 0+038.37 0+003.00 0+013.81 0+016.94 0+033.71 0+037.52 0+039.84	$50\emptyset \vee \&VB$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $200\emptyset \times 200\emptyset$ CROSS $200\emptyset \times 150\emptyset$ REDUCER $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset \times 50\emptyset$ REDUCER $50\emptyset - 45^{\circ}$ BEND $50\emptyset = 45^{\circ}$ BEND $50\emptyset \times 200\emptyset$ TEE $50\emptyset SERVICE CONNECTION BUILDING 1200\emptyset \times 200\emptyset TEE50\emptyset SERVICE CONNECTION BUILDING 250\emptyset SERVICE CONNECTION BUILDING 2200\emptyset - 45^{\circ} BEND200\emptyset X 200\emptyset CROSS200\emptyset x 200\emptyset CROSS200\emptyset x 200\emptyset TEE200\emptyset x 200\emptyset CROSS200\emptyset x 150\emptyset REDUCER150\emptyset - 45^{\circ} BEND150\emptyset - 45^{\circ} BEND150\emptyset - 45^{\circ} BEND150\emptyset - 45^{\circ} BEND150\emptyset - 45^{\circ} BEND50\emptyset SERVICE CONNECTION BUILDING 2$	100.18           100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.03           100.03           100.91           100.92           100.81           100.69           100.65           100.40           100.33           100.10           100.43           100.91           100.43           100.10           100.43           100.43           100.43           100.43           100.43           100.43           100.43           100.43           100.43           100.43           100.43           100.43           100.43           100.43           100.43           101.67           101.69           101.65	97.78 97.78 97.83 97.85 98.03 97.96 97.54 97.54 97.29 97.45 97.45 97.39 97.45 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.41 98.52 98.41 98.52 98.00 97.98 97.93 97.79 98.03 97.79 98.03 98.51 98.72 99.27 99.29 99.25	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		
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VB</math><math>200\emptyset X 200\emptyset</math> CROSS<math>200\emptyset \times 200\emptyset</math> REDUCER<math>150\emptyset - 45^{\circ}</math> BEND<math>150\emptyset - 45^{\circ}</math> BEND<math>150\emptyset - 45^{\circ}</math> BEND<math>200\emptyset \times 150\emptyset</math> REDUCER<math>150\emptyset = 45^{\circ}</math> BEND<math>150\emptyset = 45^{\circ}</math> BEND<math>150\emptyset = 45^{\circ}</math> BEND<math>50\emptyset</math> SERVICE CONNECTION BUILDING 2<math>50\emptyset</math> SERVICE CONNECTION BUILDING 2<math>50\emptyset = 45^{\circ}</math> VERTICAL BEND<math>200\emptyset = 50\emptyset</math> SERVICE CONNECTION BUILDING 5</math></td> <td>100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           99.82           99.83           99.84           100.03           100.03           100.91           100.92           100.81           100.65           100.65           100.40           100.38           100.33           100.40           100.43           100.65           100.40           100.65           100.43           100.65           100.43           100.10           100.43           100.43           100.43           100.65           101.67           101.67           101.62           101.62           101.61           101.56           101.45           101.24           100.62           100.63           100.64</td> <td>97.78 97.83 97.83 97.85 97.85 97.85 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.41 98.52 98.00 97.98 97.93 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 98.51 98.72 99.27 99.27 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.33 99.22 99.16 99.05 98.89 98.84 98.70 98.70 98.70 98.70 98.24 98.37 98.59</td> <td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td> <td></td> <td>* INSULATE PER</td>	$50\emptyset \vee 8VB$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $200\emptyset \times 200\emptyset$ CROSS $200\emptyset \times 150\emptyset$ REDUCER $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset \times 50\emptyset$ REDUCER $50\emptyset \vee 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset = 45^{\circ}$ BEND $50\emptyset = 45^{\circ}$ BEND $50\emptyset = 45^{\circ}$ BEND $50\emptyset SERVICE CONNECTION BUILDING 150\emptyset SERVICE CONNECTION BUILDING 250\emptyset SERVICE CONNECTION BUILDING 250\emptyset SERVICE CONNECTION BUILDING 250\emptyset SERVICE CONNECTION BUILDING 2200\emptyset - 45^{\circ} BEND200\emptyset - 45^{\circ} BEND200\emptyset V & VB200\emptyset X 200\emptyset CROSS200\emptyset \times 200\emptyset REDUCER150\emptyset - 45^{\circ} BEND150\emptyset - 45^{\circ} BEND150\emptyset - 45^{\circ} BEND200\emptyset \times 150\emptyset REDUCER150\emptyset = 45^{\circ} BEND150\emptyset = 45^{\circ} BEND150\emptyset = 45^{\circ} BEND50\emptyset SERVICE CONNECTION BUILDING 250\emptyset SERVICE CONNECTION BUILDING 250\emptyset = 45^{\circ} VERTICAL BEND200\emptyset = 50\emptyset SERVICE CONNECTION BUILDING 5$	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           99.82           99.83           99.84           100.03           100.03           100.91           100.92           100.81           100.65           100.65           100.40           100.38           100.33           100.40           100.43           100.65           100.40           100.65           100.43           100.65           100.43           100.10           100.43           100.43           100.43           100.65           101.67           101.67           101.62           101.62           101.61           101.56           101.45           101.24           100.62           100.63           100.64	97.78 97.83 97.83 97.85 97.85 97.85 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.41 98.52 98.00 97.98 97.93 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 97.79 98.03 98.51 98.72 99.27 99.27 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.33 99.22 99.16 99.05 98.89 98.84 98.70 98.70 98.70 98.70 98.24 98.37 98.59	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		* INSULATE PER
POSED SWALE C/ POSED DITCH C/V PE C/W FLOW DIR DR OVERLAND FL POSED SPOT GR/ POSED SWALE GI POSED SWALE GI POSED SWALE HI CORNER GRADE NTO EXISTING GF STATIC PONDING ANNING WALL OF RETAINING WALL OF FOUNDATION ENSIDE OF FOOT AL NUMBER OF R MUM UNDERSIDE MUM GARAGE GR KUP UNIT KOUT UNIT -STANDARD FOUI t cover not provide (SPLIT UNIT (1.5m	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE RADE G GRADE VALL GRADE VALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE the sever obverts, or hydraulic grade line) VATION I ELEVATION ING ELEVATION ISERS OF FOOTING RADE		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+003.51           0+021.18           0+028.87           0+028.87           0+03.71           0+038.37           0+03.71           0+03.71           0+03.71           0+03.71           0+03.71           0+03.71           0+03.71           0+053.62           0+054.95           0+057.21           0+059.33           0+000.	$50\emptyset \vee 8 \vee B$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset \text{SERVICE CONNECTION BUILDING 1}$ $200\emptyset \times 200\emptyset$ CROSS $200\emptyset \times 150\emptyset$ REDUCER $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset$ SERVICE CONNECTION BUILDING 1 $50\emptyset \times 50\emptyset$ REDUCER $50\emptyset \vee 84\%$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset = 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 2 $50\emptyset$ SERVICE CONNECTION BUILDING 2 $200\emptyset - 45^{\circ}$ BEND $200\emptyset = 45^{\circ}$ BEND $200\emptyset = 45^{\circ}$ BEND $200\emptyset - 45^{\circ}$ BEND $200\emptyset = 45^{\circ}$ BEND $200\emptyset = 45^{\circ}$ BEND $200\emptyset × 200\emptyset$ CROSS $200\emptyset × 200\emptyset$ CROSS $200\emptyset × 200\emptyset$ CROSS $200\emptyset × 200\emptyset$ REDUCER $150\emptyset = 45^{\circ}$ BEND $50\emptyset$ SERVICE CONNECTION BUILDING 2 $50\emptyset SERVICE CONNECTION BUILDING 250\emptyset SERVICE CONNECTION BUILDING 250\emptyset SERVICE CONNECTION BUILDING 250\emptyset SERVICE CONNECTION BUILDING 250\emptyset = 45^{\circ} BEND50\emptyset = 45^{\circ} VERTICAL BEND50\emptyset = 45^{\circ} VERTICAL BEND200\emptyset x 50\emptyset REDUCER50\emptyset V &VB50\emptyset = 45^{\circ} VERTICAL BEND200\emptyset x 200\emptyset TEE150\emptyset x 200\emptyset TEE150\emptyset x 200\emptyset TEE50\emptyset SERVICE CONNECTION BUILDING 550\emptyset V &VB50\emptyset SERVICE CONNECTION BUILDING 5$	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.13           100.91           100.92           100.81           100.65           100.40           100.81           100.65           100.40           100.38           100.33           100.10           100.40           100.55           100.40           100.65           100.65           100.40           100.55           100.65           100.40           100.55           100.65           100.61           101.67           101.62           101.61           101.62           101.61           101.56           101.45           100.62           100.63           100.64           100.65           100.64           100.65 <td>97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.41 98.52 98.00 97.98 97.93 97.93 97.93 97.93 97.79 98.03 98.51 98.72 99.27 99.27 99.27 99.27 99.27 99.23 99.25 99.37 98.59</td> <td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td> <td></td> <td>* INSULATE PER  * INSULATE PER * INSULATE PER</td>	97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.41 98.52 98.00 97.98 97.93 97.93 97.93 97.93 97.79 98.03 98.51 98.72 99.27 99.27 99.27 99.27 99.27 99.23 99.25 99.37 98.59	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		* INSULATE PER  * INSULATE PER * INSULATE PER
POSED SWALE C/ POSED DITCH C/V PE C/W FLOW DIR OR OVERLAND FL POSED SPOT GR/ POSED SWALE GI POSED SWALE GI POSED SWALE HI CORNER GRADE INTO EXISTING GF STATIC PONDING AINING WALL OF RETAINING W RACING 3:1 MAXIN POSED BOTTOM O SSURE REDUCING ed on the higher of SHED FLOOR ELE OF FOUNDATION ERSIDE OF FOOT AL NUMBER OF RE MUM GARAGE GR KUP UNIT ISTANDARD FOUI STANDARD FOUI SCOVER NOT UNIT SE FENCE LOCATI SE FENCE GATE	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE CW EXISTING GRADE CW EXISTING GRADE RADE G GRADE ALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE To sever obverts, or hydraulic grade line) VATION ELEVATION ING ELEVATION ISSERS G F FOOTING RADE		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.18           0+023.18           0+028.87           0+028.87           0+03.71           0+038.37           0+038.37           0+038.37           0+038.37           0+039.84           0+049.46           0+053.62           0+045.46           0+057.21           0+059.33           0+060.58           0+000.00           0+000.00           0+000.00 <td< td=""><td>50Ø V&amp;VB           50Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 200Ø CROSS           200Ø × 150Ø REDUCER           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø V&amp;VB           50Ø - 45° BEND           50Ø - 45° BEND           50Ø - 45° BEND           50Ø - 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 200Ø TEE           200Ø MONITORING VALVE CHAMBER           200Ø × 200Ø CROSS           200Ø × 200Ø TEE           200Ø × 200Ø CROSS           200Ø × 200Ø TEE           200Ø × 200Ø CROSS           200Ø × 200Ø TEE           200Ø × 200Ø CROSS           200Ø × 150Ø REDUCER           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 2           50Ø V&amp;VB           50Ø SERVICE CONNECTION BUILDING 2           50Ø × 50Ø REDUCER           50Ø × 45° BEND           50Ø × 45° BEND<!--</td--><td>100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.91           100.65           100.43           100.91           100.92           100.81           100.65           100.40           100.38           100.33           100.40           100.38           100.40           100.65           100.40           100.55           100.61           100.43           100.10          </td><td>97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.00 97.98 98.11 98.25 98.00 97.98 97.93 97.93 97.79 98.03 98.51 98.72 98.03 98.51 98.72 99.27 99.27 99.27 99.27 99.27 99.23 99.25 99.37 98.84 98.70 97.70</td><td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td><td></td><td>* INSULATE PER  * INSULATE PER * INSULATE PER  * INSULATE PER  * INSULATE PER * INSULATE PER * INSULATE PER</td></td></td<>	50Ø V&VB           50Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 200Ø CROSS           200Ø × 150Ø REDUCER           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø V&VB           50Ø - 45° BEND           50Ø - 45° BEND           50Ø - 45° BEND           50Ø - 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 200Ø TEE           200Ø MONITORING VALVE CHAMBER           200Ø × 200Ø CROSS           200Ø × 200Ø TEE           200Ø × 200Ø CROSS           200Ø × 200Ø TEE           200Ø × 200Ø CROSS           200Ø × 200Ø TEE           200Ø × 200Ø CROSS           200Ø × 150Ø REDUCER           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 2           50Ø V&VB           50Ø SERVICE CONNECTION BUILDING 2           50Ø × 50Ø REDUCER           50Ø × 45° BEND           50Ø × 45° BEND </td <td>100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.91           100.65           100.43           100.91           100.92           100.81           100.65           100.40           100.38           100.33           100.40           100.38           100.40           100.65           100.40           100.55           100.61           100.43           100.10          </td> <td>97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.00 97.98 98.11 98.25 98.00 97.98 97.93 97.93 97.79 98.03 98.51 98.72 98.03 98.51 98.72 99.27 99.27 99.27 99.27 99.27 99.23 99.25 99.37 98.84 98.70 97.70</td> <td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td> <td></td> <td>* INSULATE PER  * INSULATE PER * INSULATE PER  * INSULATE PER  * INSULATE PER * INSULATE PER * INSULATE PER</td>	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.91           100.65           100.43           100.91           100.92           100.81           100.65           100.40           100.38           100.33           100.40           100.38           100.40           100.65           100.40           100.55           100.61           100.43           100.10	97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.00 97.98 98.11 98.25 98.00 97.98 97.93 97.93 97.79 98.03 98.51 98.72 98.03 98.51 98.72 99.27 99.27 99.27 99.27 99.27 99.23 99.25 99.37 98.84 98.70 97.70	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		* INSULATE PER  * INSULATE PER * INSULATE PER  * INSULATE PER  * INSULATE PER * INSULATE PER * INSULATE PER
POSED SWALE C/ POSED DITCH C/V PE C/W FLOW DIR OR OVERLAND FL POSED SPOT GR/ POSED SWALE GI POSED SWALE GI POSED SWALE HI CORNER GRADE NTO EXISTING GF STATIC PONDING AINING WALL OF RETAINING W RACING 3:1 MAXIN POSED BOTTOM O SSURE REDUCING ed on the higher of SHED FLOOR ELE <sup>T</sup> OF FOUNDATION ERSIDE OF FOOT AL NUMBER OF RE MUM UNDERSIDE MUM GARAGE GR KUP UNIT KOUT UNIT STANDARD FOUI at cover not provide KSPLIT UNIT (1.5m SE FENCE GATE Head	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE RADE G GRADE VALL GRADE VALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE the sever obverts, or hydraulic grade line) VATION I ELEVATION ING ELEVATION ISERS OF FOOTING RADE		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+035.16           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+000.00           0+023.18           0+028.87           0+03.71           0+038.37           0+03.71           0+03.71           0+03.71           0+03.71           0+03.71           0+03.71           0+053.62           0+053.62           0+057.21           0+059.33           0+000.00           0+000.01.72           0+	$50\emptyset \vee 8 \vee B$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset \times 200\emptyset$ CROSS $200\emptyset \times 150\emptyset$ REDUCER $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset \times 80\%$ REDUCER $50\emptyset \times 80\%$ REDUCER $50\emptyset \times 45^{\circ}$ BEND $50\emptyset \times 45^{\circ}$ BEND $50\emptyset = 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset = 45^{\circ}$ BEND $50\emptyset \times 200\emptyset$ TEE $50\emptyset SERVICE CONNECTION BUILDING 1200\emptyset \times 200\emptyset TEE50\emptyset SERVICE CONNECTION BUILDING 2200\emptyset - 45^{\circ} BEND200\emptyset = 200\emptyset MONITORING VALVE CHAMBER200\emptyset × 200\emptyset TEE200\emptyset × 200\emptyset CROSS200\emptyset × 200\emptyset TEE200\emptyset × 150\emptyset REDUCER150\emptyset = 45^{\circ} BEND150\emptyset = 45^{\circ} BEND50\emptyset SERVICE CONNECTION BUILDING 2150\emptyset = 45^{\circ} BEND50\emptyset = 45^{\circ} VERTICAL BEND200\emptyset × 200\emptyset CROSS200\emptyset × 200\emptyset CROSS200\emptyset × 200\emptyset CROSS200\emptyset = 45^{\circ} VERTICAL BEND200\emptyset × 200\emptyset CROSS200\emptyset = 45^{\circ} VERTICAL BEND200\emptyset × 200\emptyset TEE150\emptyset = 45^{\circ} VERTICAL BEND200$	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.91           100.65           100.43           100.91           100.92           100.81           100.69           100.65           100.40           100.38           100.31           100.40           100.65           100.40           100.65           100.65           100.40           100.61           100.55           100.43           100.91           101.12           101.67           101.62           101.61           101.62           101.61           101.56           101.45           100.62           100.63           100.64           100.65           100.63           100.64           100.65           100.63 <td>97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.54 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.46 97.63 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.00 97.98 98.51 98.00 97.98 97.93 97.79 98.03 97.79 98.03 98.51 98.72 99.27 99.27 99.27 99.27 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.33 99.22 99.16 99.05 98.89 98.84 98.70 97.41 97.52 97.49 97.45</td> <td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td> <td></td> <td>* INSULATE PER  * INSULATE PER * INSULATE PER</td>	97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.54 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.46 97.63 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.00 97.98 98.51 98.00 97.98 97.93 97.79 98.03 97.79 98.03 98.51 98.72 99.27 99.27 99.27 99.27 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.33 99.22 99.16 99.05 98.89 98.84 98.70 97.41 97.52 97.49 97.45	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		* INSULATE PER  * INSULATE PER * INSULATE PER
POSED SWALE C/ POSED DITCH C/V PE C/W FLOW DIR OR OVERLAND FL POSED SPOT GR/ POSED SWALE GI POSED SWALE GI POSED SWALE HI CORNER GRADE NTO EXISTING GF STATIC PONDING AINING WALL OF RETAINING W RACING 3:1 MAXIN POSED BOTTOM O SSURE REDUCING ed on the higher of SHED FLOOR ELE <sup>T</sup> OF FOUNDATION ERSIDE OF FOOT AL NUMBER OF RE MUM UNDERSIDE MUM GARAGE GR KUP UNIT KOUT UNIT STANDARD FOUI at cover not provide KSPLIT UNIT (1.5m SE FENCE GATE Head	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE CW EXISTING GRADE CW EXISTING GRADE RADE G GRADE ALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE To sever obverts, or hydraulic grade line) VATION ELEVATION ING ELEVATION ISSERS G F FOOTING RADE		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+000.00           0+013.81           0+028.87           0+03.37           0+038.37           0+038.37           0+03.71           0+03.71           0+03.71           0+03.71           0+03.71           0+053.62           0+057.21           0+059.33           0+000.00           0+000.00           0+000.00           0+00	$50\emptyset \vee 8 \vee B$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset \times 200\emptyset \text{ CROSS}$ $200\emptyset \times 200\emptyset \text{ CROSS}$ $200\emptyset \times 150\emptyset \text{ REDUCER}$ $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset \text{ SERVICE CONNECTION BUILDING 1}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 1}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 1}$ $50\emptyset \times 50\emptyset \text{ REDUCER}$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset \times 200\emptyset \text{ TEE}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 1}$ $200\emptyset \times 200\emptyset \text{ TEE}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 2}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 2}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 2}$ $200\emptyset - 45^{\circ}$ BEND $200\emptyset - 45^{\circ}$ BEND $200\emptyset \text{ MONITORING VALVE CHAMBER}$ $200\emptyset \times 200\emptyset \text{ CROSS}$ $200\emptyset \times 200\emptyset \text{ CROSS}$ $200\emptyset \times 200\emptyset \text{ CROSS}$ $200\emptyset \times 200\emptyset \text{ REDUCER}$ $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset \text{ SERVICE CONNECTION BUILDING 2}50\emptyset \text{ SERVICE CONNECTION BUILDING 2}150\emptyset - 45^{\circ} BEND50\emptyset = 45^{\circ} BEND<$	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.92           100.81           100.92           100.81           100.65           100.40           100.38           100.91           100.92           100.81           100.65           100.40           100.73           100.65           100.65           100.65           100.40           100.71           100.65           100.40           100.73           100.65           100.43           100.71           101.67           101.67           101.62           101.62           101.61           101.56           101.45           100.62           100.63           100.63           100.64           100.65           100.63 <td>97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.00 97.98 97.93 97.79 98.03 97.93 97.79 98.03 98.51 98.72 98.03 98.51 98.72 99.27 99.27 99.27 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.33 99.22 99.16 99.05 98.89 98.84 98.70 97.41 97.41 97.45 97.43 97.70</td> <td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td> <td></td> <td>* INSULATE PER  * INSULATE PER * INSULATE PER</td>	97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.00 97.98 97.93 97.79 98.03 97.93 97.79 98.03 98.51 98.72 98.03 98.51 98.72 99.27 99.27 99.27 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.33 99.22 99.16 99.05 98.89 98.84 98.70 97.41 97.41 97.45 97.43 97.70	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		* INSULATE PER  * INSULATE PER * INSULATE PER
POSED SWALE C/ POSED DITCH C/V PE C/W FLOW DIR OR OVERLAND FL POSED SPOT GR/ POSED SWALE GI POSED SWALE GI POSED SWALE HI CORNER GRADE INTO EXISTING GF L STATIC PONDING AINING WALL POF RETAINING W RACING 3:1 MAXIN POSED BOTTOM O SSURE REDUCING ed on the higher of SHED FLOOR ELE POF FOUNDATION DERSIDE OF FOOT AL NUMBER OF RE MUM UNDERSIDE MUM GARAGE GR .KUP UNIT .KOUT UNIT .KOUT UNIT .KOUT UNIT SE FENCE LOCATI SE FENCE GATE Head (M)	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE CW EXISTING GRADE CW EXISTING GRADE RADE G GRADE ALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE To sever obverts, or hydraulic grade line) VATION ELEVATION ING ELEVATION ISSERS G F FOOTING RADE		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+035.16           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+003.51           0+028.87           0+028.87           0+028.87           0+033.71           0+033.71           0+033.71           0+03.81           0+049.46           0+03.71           0+049.46           0+053.62           0+054.95           0+057.21           0+059.33           0+000.00           0+000.01.72           <	$50\emptyset \vee 8 \vee B$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset \times 200\emptyset$ CROSS $200\emptyset \times 200\emptyset$ CROSS $200\emptyset \times 150\emptyset$ REDUCER $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset \times 80^{\circ}$ REDUCER $50\emptyset \times 80^{\circ}$ REDUCER $50\emptyset \times 80^{\circ}$ REDUCER $50\emptyset - 45^{\circ}$ BEND $50\emptyset \times 200\emptyset$ TEE $50\emptyset SERVICE CONNECTION BUILDING 1200\emptyset \times 200\emptyset TEE50\emptyset SERVICE CONNECTION BUILDING 250\emptyset SERVICE CONNECTION BUILDING 2200\emptyset - 45^{\circ} BEND200\emptyset - 45^{\circ} BEND200\emptyset - 45^{\circ} BEND200\emptyset - 45^{\circ} BEND200\emptyset V & VBCONNECT TO EXISTING WITH 250Ø x 200Ø TEE200\emptyset x 200\emptyset CROSS200\emptyset x 200\emptyset CROSS200\emptyset x 200\emptyset CROSS200\emptyset x 200\emptyset CROSS200\emptyset x 8DUCER150\emptyset - 45^{\circ} BEND150\emptyset - 45^{\circ} BEND50\emptyset SERVICE CONNECTION BUILDING 250\emptyset V & VB50\emptyset V & VB50\emptyset = 45^{\circ} BEND50\emptyset = 45^{\circ} BEND50\emptyset = 45^{\circ} BEND50\emptyset = 45^{\circ} VERTICAL BEND200\emptyset x 50\emptyset REDUCER50\emptyset X = 45^{\circ} VERTICAL BEND200\emptyset x = 45^{\circ} VERTICAL BEND200\emptyset x = 45^{\circ} VERTICAL BEND200\emptyset x = 45^{\circ} VERTICAL BEND50\emptyset X = 45^{\circ} VERTICAL BEND50\emptyset X = 700 REDUCER50\emptyset X =$	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           99.86           100.91           100.92           100.81           100.65           100.40           100.38           100.92           100.81           100.65           100.40           100.38           100.40           100.43           100.65           100.40           100.65           100.43           100.73           100.65           100.43           100.10           100.43           100.65           101.67           101.67           101.62           101.62           101.61           101.56           101.45           100.62           100.63           100.64           100.65           100.64           100.65 <td>97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.46 97.63 97.46 97.63 97.46 97.63 97.43 98.51 98.52 98.00 97.98 98.51 98.00 97.98 97.93 97.79 98.03 98.51 98.72 99.27 99.27 99.27 99.27 99.27 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.33 99.22 99.16 99.05 98.89 98.84 98.70 97.41 97.42 97.43</td> <td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td> <td></td> <td>* INSULATE PER  * INSULATE PER * INSULATE PER  * INSULATE PER  * INSULATE PER * INSULATE PER * INSULATE PER</td>	97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.46 97.63 97.46 97.63 97.46 97.63 97.43 98.51 98.52 98.00 97.98 98.51 98.00 97.98 97.93 97.79 98.03 98.51 98.72 99.27 99.27 99.27 99.27 99.27 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.33 99.22 99.16 99.05 98.89 98.84 98.70 97.41 97.42 97.43	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		* INSULATE PER  * INSULATE PER * INSULATE PER  * INSULATE PER  * INSULATE PER * INSULATE PER * INSULATE PER
DPOSED SWALE C/ DPOSED DITCH C/V DPE C/W FLOW DIR DOR OVERLAND FL DPOSED SPOT GR/ DPOSED SWALE GI DPOSED SWALE GI DPOSED SWALE HI CORNER GRADE INTO EXISTING GF L STATIC PONDING AINING WALL POF RETAINING WALL POF RETAINING WALL POF RETAINING WALL POF RETAINING WALL POSED BOTTOM OF SSURE REDUCING SOF FOUNDATION DERSIDE OF FOOT FAL NUMBER OF R IMUM UNDERSIDE INUM UNDERSIDE INUM GARAGE GR LKUP UNIT LKOUT UNIT LKOUT UNIT SE FENCE LOCATI SE FENCE GATE	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE CW EXISTING GRADE CW EXISTING GRADE RADE G GRADE VALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE The sewer obverts, or hydraulic grade line) VATION ING ELEVATION ING ELEVATION ING ELEVATION SERS OF FOOTING ADE NDATION IN df or standard unit) In frost cover on footings) ION		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+003.51           0+028.87           0+028.87           0+028.87           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+049.46           0+049.46           0+045.82           0+057.21           0+059.33           0+000.00 <t< td=""><td><math>50\emptyset \vee 8 \vee B</math><math>50\emptyset - 45^{\circ}</math> BEND<math>50\emptyset - 45^{\circ}</math> BEND<math>50\emptyset \times 200\emptyset \text{ CROSS}</math><math>200\emptyset \times 200\emptyset \text{ CROSS}</math><math>200\emptyset \times 150\emptyset \text{ REDUCER}</math><math>150\emptyset - 45^{\circ}</math> BEND<math>150\emptyset - 45^{\circ}</math> BEND<math>50\emptyset \text{ SERVICE CONNECTION BUILDING 1}</math><math>50\emptyset \text{ SERVICE CONNECTION BUILDING 1}</math><math>50\emptyset \text{ SERVICE CONNECTION BUILDING 1}</math><math>50\emptyset \times 50\emptyset \text{ REDUCER}</math><math>50\emptyset - 45^{\circ}</math> BEND<math>50\emptyset - 45^{\circ}</math> BEND<math>50\emptyset - 45^{\circ}</math> BEND<math>50\emptyset \times 200\emptyset \text{ TEE}</math><math>50\emptyset \text{ SERVICE CONNECTION BUILDING 1}</math><math>200\emptyset \times 200\emptyset \text{ TEE}</math><math>50\emptyset \text{ SERVICE CONNECTION BUILDING 2}</math><math>50\emptyset \text{ SERVICE CONNECTION BUILDING 2}</math><math>50\emptyset \text{ SERVICE CONNECTION BUILDING 2}</math><math>200\emptyset - 45^{\circ}</math> BEND<math>200\emptyset - 45^{\circ}</math> BEND<math>200\emptyset \text{ MONITORING VALVE CHAMBER}</math><math>200\emptyset \times 200\emptyset \text{ CROSS}</math><math>200\emptyset \times 200\emptyset \text{ CROSS}</math><math>200\emptyset \times 200\emptyset \text{ CROSS}</math><math>200\emptyset \times 200\emptyset \text{ REDUCER}</math><math>150\emptyset - 45^{\circ}</math> BEND<math>150\emptyset - 45^{\circ}</math> BEND<math>50\emptyset \text{ SERVICE CONNECTION BUILDING 2}<math>50\emptyset \text{ SERVICE CONNECTION BUILDING 2}<math>150\emptyset - 45^{\circ}</math> BEND<math>50\emptyset = 45^{\circ}</math> BEND&lt;</math></math></td><td>100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.92           100.81           100.92           100.81           100.65           100.40           100.38           100.91           100.92           100.81           100.65           100.40           100.73           100.65           100.65           100.65           100.40           100.71           100.65           100.40           100.73           100.65           100.43           100.71           101.67           101.67           101.62           101.62           101.61           101.56           101.45           100.62           100.63           100.63           100.64           100.65           100.63</td></t<> <td>97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.00 97.98 97.93 97.79 98.03 97.93 97.79 98.03 98.51 98.72 98.03 98.51 98.72 99.27 99.27 99.27 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.33 99.22 99.16 99.05 98.89 98.84 98.70 97.41 97.41 97.45 97.43 97.70</td> <td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td> <td></td> <td>* INSULATE PER  * INSULATE PER * INSULATE PER</td>	$50\emptyset \vee 8 \vee B$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset \times 200\emptyset \text{ CROSS}$ $200\emptyset \times 200\emptyset \text{ CROSS}$ $200\emptyset \times 150\emptyset \text{ REDUCER}$ $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset \text{ SERVICE CONNECTION BUILDING 1}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 1}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 1}$ $50\emptyset \times 50\emptyset \text{ REDUCER}$ $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset - 45^{\circ}$ BEND $50\emptyset \times 200\emptyset \text{ TEE}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 1}$ $200\emptyset \times 200\emptyset \text{ TEE}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 2}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 2}$ $50\emptyset \text{ SERVICE CONNECTION BUILDING 2}$ $200\emptyset - 45^{\circ}$ BEND $200\emptyset - 45^{\circ}$ BEND $200\emptyset \text{ MONITORING VALVE CHAMBER}$ $200\emptyset \times 200\emptyset \text{ CROSS}$ $200\emptyset \times 200\emptyset \text{ CROSS}$ $200\emptyset \times 200\emptyset \text{ CROSS}$ $200\emptyset \times 200\emptyset \text{ REDUCER}$ $150\emptyset - 45^{\circ}$ BEND $150\emptyset - 45^{\circ}$ BEND $50\emptyset \text{ SERVICE CONNECTION BUILDING 2}50\emptyset \text{ SERVICE CONNECTION BUILDING 2}150\emptyset - 45^{\circ} BEND50\emptyset = 45^{\circ} BEND<$	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.92           100.81           100.92           100.81           100.65           100.40           100.38           100.91           100.92           100.81           100.65           100.40           100.73           100.65           100.65           100.65           100.40           100.71           100.65           100.40           100.73           100.65           100.43           100.71           101.67           101.67           101.62           101.62           101.61           101.56           101.45           100.62           100.63           100.63           100.64           100.65           100.63	97.78 97.83 97.83 97.85 97.85 97.85 97.85 97.96 97.96 97.54 97.29 97.45 97.39 97.45 97.39 97.46 97.63 97.46 97.63 97.46 97.63 97.73 98.51 98.52 98.41 98.52 98.00 97.98 97.93 97.79 98.03 97.93 97.79 98.03 98.51 98.72 98.03 98.51 98.72 99.27 99.27 99.27 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.23 99.25 99.33 99.22 99.16 99.05 98.89 98.84 98.70 97.41 97.41 97.45 97.43 97.70	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		* INSULATE PER  * INSULATE PER * INSULATE PER
POSED SWALE C/ POSED DITCH C/V PE C/W FLOW DIR OR OVERLAND FL POSED SPOT GR/ POSED SWALE GI POSED SWALE GI POSED SWALE HI CORNER GRADE INTO EXISTING GF L STATIC PONDING AINING WALL POF RETAINING W RACING 3:1 MAXIM POSED BOTTOM G SURE REDUCING COF FOUNDATION POSED BOTTOM G SURE REDUCING COF FOUNDATION POSED BOTTOM G SURE REDUCING SURE REDUCING COF FOUNDATION DERSIDE OF FOOT AL NUMBER OF R MUM GARAGE GR LUP UNIT LKOUT UNIT LKOUT UNIT LKOUT UNIT SE FENCE LOCATI SE FENCE GATE CO 1.42 CU	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE RADE IGH POINT GRADE CW EXISTING GRADE CW EXISTING GRADE ADE G GRADE MALL GRAD		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+000.00           0+023.18           0+028.87           0+03.71           0+03.71           0+03.71           0+03.71           0+03.84           0+049.46           0+053.62           0+057.21           0+059.33           0+000.00           0+000.75           0+000.00           0+000.00           0+000.00           0+0	50Ø V&VB           50Ø – 45° BEND           50Ø = 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø x 200Ø CROSS           200Ø x 150Ø REDUCER           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø × 80Ø REDUCER           50Ø × 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 200Ø TEE           200Ø V&VB           200Ø NONTORING VALVE CHAMBER           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø REDUCER           150Ø - 45° BEND           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 200Ø CROSS           200Ø × 45° VERTICAL BEND           200Ø × 200Ø	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.92           100.81           100.65           100.43           100.91           100.92           100.81           100.69           100.65           100.40           100.33           100.10           100.40           100.55           100.65           100.65           100.61           100.73           100.10           100.43           100.91           101.12           101.67           101.62           101.61           101.62           101.61           101.56           101.45           100.62           100.63           100.64           100.65           100.77           100.99           99.81           99.81	97.78         97.83         97.83         97.85         98.03         97.96         97.54         97.29         97.45         97.39         97.45         97.73         97.63         97.63         97.73         98.51         98.52         98.41         98.52         98.00         97.93         97.93         97.93         97.73         98.03         98.72         98.03         97.93         97.93         97.93         97.93         97.92         98.03         98.72         99.25         99.23         99.25         99.23         99.25         99.23         99.25         99.26         98.70         98.70         98.70         98.70         98.70         98.71         98.72         98.70         98.71	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		INSULATE PER
OPOSED SWALE C/         OPOSED DITCH C/V         OPOSED DITCH C/V         OPOSED SPOT GR/         OPOSED SPOT GR/         OPOSED SWALE GI         SALTIC PONDING         GARACING 3:1 MAXIN         OPOSED BOTTOM GI         SSURE REDUCING         SHED FLOOR ELEP         OF FOUNDATION         OF FOUNDATION         OF FOUNDATION         DERSIDE OF FOOT         AL NUMBER OF R         IMUM UNDERSIDE         IMUM UNDERSIDE         IMUM GARAGE GR         LKUP UNIT         LKOUT UNIT         VALSTANDARD FOUL         SE FENCE LOCATI         SE FENCE GATE         OL         ALAN         QUARAGE	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE RADE IGH POINT GRADE C/W EXISTING GRADE C/W EXISTING GRADE RADE G GRADE ALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE the sewer obverts, or hydraulic grade line) VATION I ELEVATION I ELEVATION I SERS OF FOOTING RADE NDATTON I forst cover on footings) ION I CD UST UST UST UST UST UST UST UST		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+003.51           0+028.87           0+028.87           0+028.87           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+049.46           0+053.62           0+057.21           0+059.33           0+000.00           0+000.00 <t< td=""><td>50Ø V&amp;VB           50Ø – 45° BEND           50Ø = 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø x 150Ø REDUCER           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø × 45° BEND           50Ø × 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 45° BEND           200Ø × 200Ø TEE           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 45° BEND           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 3           50Ø × 80Ø REDUCER           50Ø × 80Ø REDUCER</td><td>100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           99.82           100.13           100.91           100.92           100.81           100.65           100.40           100.38           100.33           100.40           100.33           100.40           100.65           100.40           100.55           100.65           100.40           100.73           100.65           100.65           100.40           100.55           100.65           101.67           101.67           101.62           101.62           101.61           101.56           101.45           100.62           100.63           100.64           100.65           100.63           100.64           100.65<td>97.78         97.83         97.85         98.03         97.96         97.54         97.79         97.45         97.39         97.45         97.73         97.63         97.63         97.73         98.51         98.52         98.41         98.52         98.00         97.93         97.93         97.93         97.79         98.03         98.72         98.03         97.93         97.93         97.93         97.93         97.93         97.92         98.03         98.72         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26</td><td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td><td></td><td>INSULATE PER     INSULATE PER</td></td></t<>	50Ø V&VB           50Ø – 45° BEND           50Ø = 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø x 150Ø REDUCER           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø × 45° BEND           50Ø × 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 45° BEND           200Ø × 200Ø TEE           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 45° BEND           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 3           50Ø × 80Ø REDUCER	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           99.82           100.13           100.91           100.92           100.81           100.65           100.40           100.38           100.33           100.40           100.33           100.40           100.65           100.40           100.55           100.65           100.40           100.73           100.65           100.65           100.40           100.55           100.65           101.67           101.67           101.62           101.62           101.61           101.56           101.45           100.62           100.63           100.64           100.65           100.63           100.64           100.65 <td>97.78         97.83         97.85         98.03         97.96         97.54         97.79         97.45         97.39         97.45         97.73         97.63         97.63         97.73         98.51         98.52         98.41         98.52         98.00         97.93         97.93         97.93         97.79         98.03         98.72         98.03         97.93         97.93         97.93         97.93         97.93         97.92         98.03         98.72         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26</td> <td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td> <td></td> <td>INSULATE PER     INSULATE PER</td>	97.78         97.83         97.85         98.03         97.96         97.54         97.79         97.45         97.39         97.45         97.73         97.63         97.63         97.73         98.51         98.52         98.41         98.52         98.00         97.93         97.93         97.93         97.79         98.03         98.72         98.03         97.93         97.93         97.93         97.93         97.93         97.92         98.03         98.72         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		INSULATE PER
DPOSED SWALE C/         DPOSED DITCH C/V         DPOSED DITCH C/V         DPOSED SPOT GR/         DPOSED SPOT GR/         DPOSED SWALE GI         CORNER GRADE         INTO EXISTING GF         INTO EXISTING WALL         POF RETAINING WALL         POSED BOTTOM GESSURE REDUCING         SSURE REDUCING         SSURE REDUCING         SSURE REDUCING         SSURE REDUCING         SSURE REDUCING         DOF FOUNDATION         DERSIDE OF FOOT         CAL NUMBER OF R         IMUM UNDERSIDE         IMUM UNDERSIDE         IMUM UNIT         V-STANDARD FOUI         SE FENCE LOCATI         SE FENCE GATE         E       Head         G       1.42         Q       1.98	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE C/W EXISTING GRADE RADE G GRADE ALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE The sewer obverts, or hydraulic grade line) VATION ING ELEVATION ING ING ING ING ING ING ING ING ING ING		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+003.51           0+028.87           0+028.87           0+028.87           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+049.46           0+053.62           0+057.21           0+059.33           0+000.00           0+000.00 <t< td=""><td>50Ø V&amp;VB           50Ø - 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø x 200Ø CROSS           200Ø x 150Ø REDUCER           150Ø - 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø V&amp;VB           50Ø SERVICE CONNECTION BUILDING 1           50Ø X 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 45° BEND           200Ø × 45° BEND           200Ø × 45° BEND           200Ø × 200Ø TEE           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS</td><td>100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           99.82           100.13           100.91           100.92           100.81           100.65           100.40           100.33           100.65           100.40           100.33           100.65           100.40           100.65           100.65           100.40           100.55           100.65           100.40           100.55           100.43           100.71           101.62           101.62           101.62           101.62           101.62           101.61           101.24           100.62           100.63           100.64           100.65           100.61           99.81           99.81           99.81</td><td>97.78         97.83         97.85         98.03         97.96         97.54         97.29         97.45         97.39         97.45         97.73         97.63         97.63         97.73         98.51         98.52         98.41         98.52         98.00         97.93         97.93         97.93         97.79         98.03         98.71         98.03         97.93         97.93         97.93         97.93         97.93         97.92         98.03         98.72         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26</td><td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td><td></td><td>INSULATE PER     INSULATE PER</td></t<>	50Ø V&VB           50Ø - 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø x 200Ø CROSS           200Ø x 150Ø REDUCER           150Ø - 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø V&VB           50Ø SERVICE CONNECTION BUILDING 1           50Ø X 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 45° BEND           200Ø × 45° BEND           200Ø × 45° BEND           200Ø × 200Ø TEE           200Ø × 200Ø CROSS	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           99.82           100.13           100.91           100.92           100.81           100.65           100.40           100.33           100.65           100.40           100.33           100.65           100.40           100.65           100.65           100.40           100.55           100.65           100.40           100.55           100.43           100.71           101.62           101.62           101.62           101.62           101.62           101.61           101.24           100.62           100.63           100.64           100.65           100.61           99.81           99.81           99.81	97.78         97.83         97.85         98.03         97.96         97.54         97.29         97.45         97.39         97.45         97.73         97.63         97.63         97.73         98.51         98.52         98.41         98.52         98.00         97.93         97.93         97.93         97.79         98.03         98.71         98.03         97.93         97.93         97.93         97.93         97.93         97.92         98.03         98.72         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		INSULATE PER
OPOSED SWALE C/ OPOSED DITCH C/W DPE C/W FLOW DIR JOR OVERLAND FL OPOSED SPOT GR/ OPOSED SWALE GI OPOSED SWALE GI OPOSED SWALE HI T CORNER GRADE INTO EXISTING GF LL STATIC PONDING TAINING WALL P OF RETAINING W RRACING 3:1 MAXIM OPOSED BOTTOM O ESSURE REDUCING Sed on the higher of IISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE OF SOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> P OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R UMUM UNDERSIDE ISHED FLOOR ELE <sup>T</sup> ISHE FENCE GATE	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE RADE IGH POINT GRADE C/W EXISTING GRADE C/W EXISTING GRADE RADE G GRADE ALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE the sewer obverts, or hydraulic grade line) VATION I ELEVATION I ELEVATION I SERS OF FOOTING RADE NDATTON I forst cover on footings) ION I CD UST UST UST UST UST UST UST UST		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+000.00           0+023.18           0+028.87           0+03.71           0+03.71           0+03.71           0+03.71           0+03.71           0+053.62           0+057.21           0+059.33           0+000.00           0+000.01           0+000.02           0+000.03           0+000.00           0+000.00           0+0	50Ø V&VB           50Ø – 45° BEND           50Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø x 150Ø REDUCER           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø SERVICE CONNECTION BUILDING 1           50Ø X SOØ REDUCER           50Ø V&VB           50Ø X SOØ REDUCER           50Ø V&VB           50Ø ZERVICE CONNECTION BUILDING 1           50Ø X SOØ REDUCER           50Ø X SOØ REDUCER           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           200Ø X 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 200Ø TEE           200Ø X 200Ø TEE           200Ø X 200Ø CROSS           200Ø X 150Ø REDUCER           150Ø × 45° BEND           50Ø SERVICE CONNECTION BUILDING 2           200Ø X 150Ø REDUCER           150Ø × 45° BEND           50Ø SERVICE CONNECTION BUILDING 2           200Ø X 200Ø CROSS           200Ø X 200Ø CROSS           200Ø × 200Ø CROSS     <	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           100.92           100.81           100.65           100.43           100.91           100.92           100.81           100.65           100.40           100.33           100.10           100.40           100.55           100.40           100.65           100.65           100.43           100.71           100.55           100.43           100.71           101.62           101.65           101.62           101.62           101.62           101.61           101.56           101.45           100.62           100.63           100.64           100.65           100.61           99.81           99.81           99.81	97.78         97.83         97.85         97.85         97.85         97.96         97.54         97.29         97.45         97.39         97.45         97.73         97.63         97.63         97.73         98.51         98.52         98.41         98.51         98.00         97.93         97.93         97.93         97.73         98.03         98.72         98.03         97.93         97.93         97.93         97.93         97.92         98.03         98.72         99.25         99.27         99.28         99.29         99.25         99.23         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		<ul> <li>Insulate PER (</li> &lt;</ul>
OPOSED SWALE C/         OPOSED DITCH C/V         OPE C/W FLOW DIR         JOR OVERLAND FL         OPOSED SPOT GR/         OPOSED SWALE GI         OPOSED SWALE HI         T CORNER GRADE         INTO EXISTING GR         LL STATIC PONDING         TAINING WALL         P OF RETAINING W         RRACING 3:1 MAXIN         OPOSED BOTTOM GESSURE REDUCING         ESSURE REDUCING         SSOURE REDUCING         SSOURE REDUCING         ESSURE REDUCING         SSOURE REDUCING         SSOURE REDUCING         ESSURE REDUCING         SSOURE REDUCING         ESSURE REDUCING         IMUM UNDERSIDE         IMUM UNDERSIDE         IMUM UNDERSIDE         IMUM UNDERSIDE         IMUM UNIT         ILKUP UNIT         ILKOUT UNIT         ISE FENCE GATE         E       Head (M)         Q       1.42         Q       1.25         ISE FENCE GATE         E       1.25         Q       1.25	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE C/W EXISTING GRADE RADE G GRADE VALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE the sewer obverts, or hydraulic grade line) VATION I ELEVATION I ELEVATION I ELEVATION I SERS OF FOOTING ADE NDATION d for standard unit) in fost cover on footings) ION I ELEVATION I ELEVATION I STANDARD I ELEVATION I SERS I OF FOOTING ADE I ELEVATION I TON I ELEVATION I STANDARD I ELEVATION I STANDARD I ELEVATION I STANDARD I ELEVATION I SERS I OF FOOTING ADE I ELEVATION I STANDARD I ELEVATION I ELE		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.71           0+028.87           0+028.87           0+028.87           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+033.71           0+053.62           0+053.62           0+055.33           0+000.00           0+000.01           0+000.02           0+000.03           0+000.01 <t< td=""><td>50Ø V&amp;VB           50Ø – 45° BEND           50Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 150Ø REDUCER           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø SERVICE CONNECTION BUILDING 1           50Ø X 45° BEND           50Ø × 200Ø CEQ           50Ø × 45° BEND           50Ø × 45° BEND           50Ø - 45° BEND           50Ø × 45° BEND           50Ø × 45° BEND           50Ø × 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 45° BEND           200Ø × 45° BEND           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø REDUCER           150Ø × 45° BEND           150Ø × 45° BEND           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø</td><td>100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           99.82           100.13           100.91           100.92           100.81           100.65           100.40           100.38           100.33           100.65           100.40           100.38           100.71           100.65           100.40           100.73           100.65           100.61           100.71           100.72           100.43           100.71           101.62           101.62           101.62           101.62           101.62           101.62           101.62           101.62           100.62           100.63           100.62           100.63           100.61           100.62           100.63<td>97.78         97.83         97.85         97.85         97.85         97.96         97.54         97.79         97.45         97.39         97.45         97.73         97.63         97.63         97.73         98.51         98.52         98.41         98.25         98.00         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         98.03         98.70         99.21         99.23         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28</td><td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td><td></td><td>* INSULATE PER     *</td></td></t<>	50Ø V&VB           50Ø – 45° BEND           50Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 150Ø REDUCER           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø SERVICE CONNECTION BUILDING 1           50Ø X 45° BEND           50Ø × 200Ø CEQ           50Ø × 45° BEND           50Ø × 45° BEND           50Ø - 45° BEND           50Ø × 45° BEND           50Ø × 45° BEND           50Ø × 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 45° BEND           200Ø × 45° BEND           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø REDUCER           150Ø × 45° BEND           150Ø × 45° BEND           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           99.82           100.13           100.91           100.92           100.81           100.65           100.40           100.38           100.33           100.65           100.40           100.38           100.71           100.65           100.40           100.73           100.65           100.61           100.71           100.72           100.43           100.71           101.62           101.62           101.62           101.62           101.62           101.62           101.62           101.62           100.62           100.63           100.62           100.63           100.61           100.62           100.63 <td>97.78         97.83         97.85         97.85         97.85         97.96         97.54         97.79         97.45         97.39         97.45         97.73         97.63         97.63         97.73         98.51         98.52         98.41         98.25         98.00         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         98.03         98.70         99.21         99.23         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28</td> <td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td> <td></td> <td>* INSULATE PER     *</td>	97.78         97.83         97.85         97.85         97.85         97.96         97.54         97.79         97.45         97.39         97.45         97.73         97.63         97.63         97.73         98.51         98.52         98.41         98.25         98.00         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         97.93         98.03         98.70         99.21         99.23         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		* INSULATE PER     *
OPOSED SWALE C/ OPOSED DITCH C/W OPE C/W FLOW DIR JOR OVERLAND FL OPOSED SPOT GR/ OPOSED SWALE GI OPOSED SWALE GI OPOSED SWALE HI T CORNER GRADE INTO EXISTING GF LL STATIC PONDING TAINING WALL P OF RETAINING W RRACING 3:1 MAXIM OPOSED BOTTOM ESSURE REDUCING SSOURE REDUCING SSOURE REDUCING SSOURE REDUCING SSOURE OF FOOT TAL NUMBER OF R NIMUM UNDERSIDE OF FOUNDATION DERSIDE OF FOOT TAL NUMBER OF R NIMUM UNDERSIDE ON STANDARD FOUN OSE FENCE LOCATI DISE FENCE GATE CKSPLIT UNIT (1.5m DISE FENCE GATE	W FLOW DIRECTION AND SLOPE RECTION LOW ROUTE ADE RADE IGH POINT GRADE C/W EXISTING GRADE C/W EXISTING GRADE RADE G GRADE VALL GRADE MUM UNLESS NOTED OTHERWISE OF RETAINING WALL GRADE G VALVE the sewer obverts, or hydraulic grade line) VATION I ELEVATION I ELEVATION I SERS OF FOOTING XADE NDATION d for standard unit) In fost cover on footings) ION I ELEVATION UNCON I ELEVATION I SERS I OF FOOTING RADE I ELEVATION I SERS I OF FOOTING RADE I ELEVATION I SERS I OF FOOTING RADE I ELEVATION I SERS I OF FOOTING I ELEVATION I SERS I OF FOOTING RADE I I ELEVATION I ELEVATION I ELEVATION I I ELEVATION I ELEVATION I ELEVATION I I ELEVATION I I		0+117.15           0+119.55           0+123.04           0+000.00           0+003.56           0+017.90           0+021.71           0+024.03           0+042.89           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+045.02           0+000.00           0+023.18           0+028.87           0+03.71           0+03.71           0+03.71           0+03.71           0+03.84           0+049.46           0+053.62           0+054.95           0+057.21           0+059.33           0+000.00           0+000.00           0+000.00           0+000.00           0+0	50Ø V&VB           50Ø – 45° BEND           50Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 150Ø REDUCER           150Ø – 45° BEND           50Ø SERVICE CONNECTION BUILDING 1           50Ø SERVICE CONNECTION BUILDING 1           50Ø X 45° BEND           50Ø × 200Ø CEQ           50Ø × 45° BEND           50Ø × 45° BEND           50Ø - 45° BEND           50Ø × 45° BEND           50Ø × 45° BEND           50Ø × 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 200Ø TEE           50Ø SERVICE CONNECTION BUILDING 2           200Ø × 45° BEND           200Ø × 45° BEND           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø × 200Ø REDUCER           150Ø × 45° BEND           150Ø × 45° BEND           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 2           50Ø SERVICE CONNECTION BUILDING 1           200Ø × 200Ø CROSS           200Ø × 200Ø CROSS           200Ø	100.18           100.23           100.25           100.36           99.94           99.89           99.89           99.89           99.89           99.80           99.81           99.82           100.13           100.91           100.92           100.81           100.65           100.40           100.33           100.65           100.40           100.38           100.31           100.40           100.65           100.40           100.65           100.65           100.40           100.33           100.10           100.43           100.55           101.67           101.62           101.62           101.62           101.62           101.61           101.56           101.45           100.62           100.63           100.64           100.65           100.61           100.62           100.63 <td>97.78         97.83         97.85         97.85         97.85         97.85         97.85         97.85         97.96         97.54         97.96         97.45         97.39         97.45         97.73         97.63         97.63         97.63         97.63         97.73         98.51         98.51         98.52         98.00         97.93         97.93         97.93         97.93         97.79         98.03         98.70         99.27         99.28         99.27         99.29         99.25         99.23         99.25         99.23         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26</td> <td>2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40</td> <td></td> <td></td>	97.78         97.83         97.85         97.85         97.85         97.85         97.85         97.85         97.96         97.54         97.96         97.45         97.39         97.45         97.73         97.63         97.63         97.63         97.63         97.73         98.51         98.51         98.52         98.00         97.93         97.93         97.93         97.93         97.79         98.03         98.70         99.27         99.28         99.27         99.29         99.25         99.23         99.25         99.23         99.25         99.26         99.27         99.28         99.29         99.25         99.26         99.27         99.28         99.29         99.25         99.26	2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40		

#### NOTES

- 1. ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS & SPECIFICATIONS OR OPSD/OPSS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT APPLY. 2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE,
- MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION AND SHALL PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOW ON THESE DRAWINGS.
- 3. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT DATED JANUARY 24, 2017 PREPARED BY GOLDER ASSOCIATES.
- 4. FOR GEODETIC BENCHMARK AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL SURVEY AND PLAN OF SUBDIVISION PREPARED BY ANNIS O'SULLIVAN VOLLEBEKK LTD. BENCHMARK BASED ON CAN--NET VIRTUAL REFERENCE SYSTEM NETWORK.
- 5. ROADWAY SECTIONS REQUIRING GRADE RAISE TO PROPOSED SUB GRADE LEVEL TO BE FILLED WITH ACCEPTABLE NATIVE EARTH BORROW OR IMPORTED OPSS SELECTED SUBGRADE MATERIAL IF NATIVE MATERIAL IS DEFICIENT AS PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
- 6. IN AREAS WHERE EXISTING GROUND IS BELOW THE PROPOSED ELEVATION OF SEWER AND WATERMAINS, GRADE RAISING AND FILLING IS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. AS PER CITY GUIDELINES ALL WATERMAINS IN FILL AREAS ARE TO BE TIED WITH RESTRAINING JOINTS AND THRUST BLOCKS.
- 7. REFER TO DRAWING 011 FOR ROADWAY CROSS SECTIONS.
- 8. SILT FENCE TO BE ERECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE.
- 9. STRAW BALE SEDIMENT TRAPS TO BE PLACED AND MAINTAINED IN EXISTING AND CONSTRUCTED ROAD SIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED (IF APPLICABLE).
- 10. SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS. GEOTEXTILE SILT SACK IN STREET CBs TO REMAIN UNTIL ALL CURBS ARE CONSTRUCTED. GEOTEXTILE FABRIC IN RYCBs TO REMAIN UNTIL VEGETATION IS ESTABLISHED. ALL CATCHBASINS TO BE REGULARLY INSPECTED AND CLEANED, AS NECESSARY, UNTIL SOD AND CURBS ARE CONSTRUCTED.
- 11. ALL CONNECTIONS TO EXISTING WATERMAINS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
- 12. ALL LEADS FOR STREET CB'S TO AND CICB'S CONNECTED TO MAIN SHALL BE 250mmØ PVC DR35 @ MIN 2% SLOPE UNLESS NOTED OTHERWISE. ALL LEADS FOR RYCB'S CONNECTED TO MAIN SHALL BE 200mmØ PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.
- 13. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES.
- 14. THE COMPOSITE UTILITY PLAN HAS BEEN REVIEWED BY IBI GROUP FOR CONFORMITY TO THE DESIGN CONCEPT FOR THE DEVELOPMENT AND FOR GENERAL ARRANGEMENT ONLY AND AS SUCH SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN EITHER LAYOUT OR WORKMANSHIP.
- 15. THIS DRAWING IS A COMPILATION OF OTHER UTILITY DESIGNS AND DOES NOT INDICATE IN ANY WAY THAT THE PARTY SIGNING THIS DRAWING HAS DESIGNED OR APPROVED THE RESPECTIVE UTILITY PLANTS INDICATED ON THIS DRAWING. THE DRAWING WAS PREPARED TO BE USED AS REFERENCE ONLY AS PER REQUIREMENTS OF THE CITY OF OTTAWA. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE IT HAS REVIEWED THE CURRENT AND EXISTING DESIGNS BY HYDRO, STREET LIGHTING, BELL, CANADA POST, O.C. TRANSPO, CABLE TV AND ANY OTHER PARTIES INCLUDED BUT NOT MENTIONED AND COMPLETE THE INSTALLATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE STAKEHOLDER UTILITY DESIGNS.
- 16. THE HGL PROVIDED IS BASED ON HYDRAULIC MODELING COMPLETED USING XPSWMM AND THE 100 YEAR CHICAGO STORM EVENT (C3H10010).
- 17. ALL UTILITY BOXES (I.E. PEDESTALS, TRANSFORMERS, ETS) ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF OTTAWA'S "GUIDELINES FOR UTILITY PEDESTALS WITHIN THE ROAD RIGHT OF WAY"

		ence Table	<i>a</i> :
Crossing No.	PIPE 1 STM	PIPE 2 WTR	Clearance
1	Bottom 98.718 WTR	Top 97.981 STM	0.737
2	Bottom 98.105	Top 97.855	0.250
3	STM Bottom 98.700	WTR Top 98.208	0.492
4	WTR Bottom 97.633	SAN Top 96.777	0.856
5	STM	WTR Top 97.453	0.501
6	Bottom 97.954 STM	SAN	0.597
	Bottom 97.939 STM	Top 97.342 SAN	
7	Bottom 97.612 SAN	Top 96.867 WTR	0.745
8	Bottom 99.394	Top 98.810	0.585
9	WTR Bottom 97.929	STM Top 97.678	0.251
10	WTR Bottom 97.867	SAN Top 97.062	0.805
11	WTR Bottom 97.892	SAN Top 97.284	0.608
12	WTR	STM	0.250
13	Bottom 98.308 STM	Top 98.058 WTR	
	Bottom 99.375 WTR	Top 98.876 STM	0.500
14	Bottom 98.600	Top 98.350	0.251
15	WTR Bottom 98.780	SAN Top 98.526	0.253
16	WTR Bottom 98.204	SAN Top 97.448	0.756
17	WTR Bottom 98.101	STM Top 97.852	0.250
18	WTR	SAN Top 97.902	0.250
	Bottom 98.152 SAN	WTR	0.500
19	Bottom 97.955 WTR	Top 97.454 STM	
20	Bottom 97.731 WTR	Top 97.481 SAN	0.250
21	Bottom 97.661	Top 97.380	0.282
22	WTR Bottom 97.925	SAN Top 97.672	0.253
23	STM Bottom 98.790	STM Top 97.321	1.469
24	STM Bottom 98.760	SAN Top 96.877	1.883
25	STM	WTR	0.506
-	Bottom 98.667 STM	Top 98.161 SAN	
26	Bottom 97.292 STM	Top 97.022 SAN	0.269
28	Bottom 97.662	Top 97.243 STM	0.419
29	STM Bottom 98.846	Top 98.302	0.544
30	STM Bottom 98.512	SAN Top 97.542	0.970
31	STM Bottom 98.237	SAN Top 97.772	0.466
32	STM	SAN Top 97.349	1.453
33	Bottom 98.802 STM	SAN	0.660
	Bottom 98.054 STM	Top 97.395 SAN	
34	Bottom 98.010 STM	Top 97.598 SAN	0.412
35	Bottom 98.059	Top 97.787	0.273
36	STM Bottom 96.226	SAN Top 95.974	0.252
37	WTR Bottom 97.956	STM Top 97.221	0.735
38	SAN Bottom 99.237	STM Top 97.072	2.165
39	SAN	STM	2.054
40	Bottom 99.237 SAN	Top 97.183 STM	0.337
	Bottom 97.600 SAN	Top 97.263 STM	
41	Bottom 98.571 SAN	Top 96.977 STM	1.594
42	Bottom 98.389	Top 97.514	0.875
43	SAN Bottom 98.389	STM Top 97.903	0.486
44	STM Bottom 99.345	SAN Top 98.133	1.212
46	SAN Bottom 98.639	WTR Top 98.107	0.532
47	SAN	WTR	1.115
	Bottom 99.330 SAN	Top 98.215 WTR	
48	Bottom 99.330 WTR	Top 98.494 SAN	0.837
49	Bottom 99.063	Top 98.814	0.250
50	WTR Bottom 99.116	SAN Top 98.814	0.302
51	WTR Bottom 97.900	SAN Top 96.909	0.991
52	SAN Bottom 97.955	WTR Top 97.455	0.500
53	WTR	SAN	0.268
54	Bottom 97.780 WTR	Top 97.512 SAN	0.250
	Bottom 98.243 WTR	Top 97.993 SAN	
55	Bottom 99.922	Top 99.495	0.427
56	SAN Bottom 99.319	WTR Top 98.958	0.361
57	SAN Bottom 99.319	WTR Top 98.572	0.746
	WTR	SAN	0.250

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NOTES:	NG C-010, C-011 FC	R ADDITIONAL I	DETAI	LS AND				
SURVEYOR	2. SITE BENCHMARK OBTAINED FROM LEGAL SURVEYOR ANNIS O'SULLIVAN VOLLEBEKK LTD. TOP SPINDLE OF HYDRANT ON PINGWI PLACE, ELEV.=102.60m							
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Project Title		CK 232 WAYS						
	SS/ONAL TROMET							
Drawing Title	Drawing Title GENERAL NOTES, LEGEND AND CB DATA TABLE							
Scale	N. <sup>-</sup>	Г.S.						
Design		Date	от <i>с</i>	010				
Drawn	RM/WZ DPS/WZ	Checked	PT. 2 DGY					
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