

DRAWING NOTES

1.0 GENERAL

- 1.1 CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- 1.2 DO NOT SCALE DRAWINGS.
- 1.3 CONTRACTOR TO REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE ARCHITECT OR DESIGN ENGINEER AS APPLICABLE.
- 1.4 USE ONLY THE LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED 'ISSUED FOR CONSTRUCTION'.
- 1.5 ALL CONSTRUCTION SHALL COMPLY WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- 1.6 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS.
- 1.7 FOR LEGAL SURVEY INFORMATION REFER TO REGISTERED PLAN.
- 1.8 REFER TO SITE PLAN BY IBI GROUP ARCHITECTS INC.
- 1.9 CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA. PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.), DURING ALL PHASES OF THE SITE PREPARATION AND CONSTRUCTION THE MEASURES ARE TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. SHOULD ANY ADDITIONAL MEASURES BE REQUIRED TO ADDRESS FIELD CONDITIONS THEY SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE CITY OF OTTAWA. SUCH ADDITIONAL MEASURES MAY INCLUDE BUT NOT BE LIMITED TO INSTALLATION OF SEDIMENT CAPTURE FILTER SOCKS WITH MANHOLES AND CATCHBASINS TO PREVENT SEDIMENT FROM ENTERING THE STRUCTURE AND INSTALLATION AND MAINTENANCE OF A LIGHT DUTY Silt FENCE BARRIER AS REQUIRED.
- 1.10 ALL IRON WORK ELEVATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR ADJUSTMENTS AS DETERMINED BY THE ENGINEER.
- 1.11 ALL CONCRETE CURBS AND SIDEWALKS TO CONFORM TO O.P.S. AND CONSTRUCTED TO CITY STANDARDS. ALL ONSITE CURBS TO BE BARRIER TYPE, WITH DEPRESSIONS AS NOTED.
- 1.12 ALL CONCRETE SHALL BE "NORMAL PORTLAND CEMENT" IN ACCORDANCE WITH O.P.S.S. 1350 AND SHALL ACHIEVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.
- 1.13 ALL CONSTRUCTION TRAFFIC TO ACCESS SITE FROM BANK STREET.
- 1.14 FOR GEOTECHNICAL REPORT SEE GEOTECHNICAL INVESTIGATION PROPOSED RESIDENTIAL DEVELOPMENT - KELLAM LANDS, OTTAWA, ON, REPORT NO. 12-1121-0286 BY GOLDER ASSOCIATES.
- 1.15 CONTRACTOR TO PROTECT EXISTING INFRASTRUCTURE AND PROPERTY SUCH AS TREES, PARKING METERS, SIDEWALKS, CURBS, ASPHALT, AND STREET SIGNS FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR TO PAY THE COST TO REINSTATE OR REPLACE ANY DAMAGED INFRASTRUCTURE OR PROPERTY TO THE SATISFACTION OF THE CITY.
- 1.16 THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS, AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM ITSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, SHALL PROTECT ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- 1.17 CONTRACTOR TO SUPPLY SUITABLE FILL MATERIAL WHERE REQUIRED TO ROUGH GRADE THE SITE. ALL IMPORTED FILL MATERIAL TO BE CERTIFIED AS ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.
- 1.18 CONTRACTOR TO HAUL EXCESS MATERIAL OFFSITE AS NECESSARY TO GRADE SITE TO MEET THE PROPOSED GRADES. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER, ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.
- 1.19 FILL MATERIAL WITHIN THE PARKING LOT AND BUILDING PAD AREAS, AND SUPPORTING BUILDING FOUNDATIONS SHALL BE COMPACTED TO 90% STANDARD MODIFIED PROCTOR DENSITY AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 1.20 ALL COMPACTION METHODS TO BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO INCLUDE BUT NOT BE LIMITED TO THE THICKNESS OF LIFTS, AND COMPACTION EQUIPMENT USED.
- 1.21 ALL DISTURBED BOULEVARDS TO BE REINSTEATED WITH SOD ON 100mm TOPSOIL.
- 1.22 UTILITY DUCTS TO BE INSTALLED PRIOR TO ROAD BASE CONSTRUCTION.
- 1.23 CLAY DIKES TO BE INSTALLED WHERE INDICATED ON THE DRAWINGS OR AS APPROVED AND DIRECTED BY THE GEOTECHNICAL ENGINEER ALL IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- 1.24 BACKWATER VALES, PER CITY STANDARDS S14, S14.1 AND S14.2 RE TO BE INSTALLED FOR ALL STORM AND SANITARY SERVICE CONNECTIONS.

2.0 SANITARY

- 2.1 ALL SANITARY SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OPSD 100.01. SANITARY SEWER MATERIALS TO BE 250mm ID AND SMALLER - PVC DR 35
- 2.2 ALL SANITARY MAINTENANCE HOLES TO BE 1.2m DIAMETER AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, FRAME AND COVER. DROP PIPES AND LANDINGS WHERE NEEDED.
- 2.3 SANITARY MANHOLE COVERS TO BE CITY OF OTTAWA STD. S25 (MOD. OPSD. 401.020). SANITARY MANHOLE COVER TO BE CLOSED COVER TYPE AS PER CITY STANDARD S24.
- 2.4 SANITARY SEWER LEAKAGE TEST AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY SPECIFICATIONS PRIOR TO INSTALLATION OF BASE COURSE ASPHALT.
- 2.5 ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22. OR AS APPROVED BY THE ENGINEER.
- 2.6 CONNECTION TO THE EXISTING SANITARY SEWER TO BE INCLUDED IN THE COST FOR SANITARY SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

3.0 STORM

- 3.1 ALL STORM SEWERS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ALL STORM SEWERS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ONLY FACTORY FITTINGS TO BE USED. STORM SEWER MATERIALS TO BE: 375mm ID AND SMALLER - PVC DR 35 450mm ID AND LARGER - 100-D REINFORCED CONCRETE. UNLESS NOTED OTHERWISE
- 3.2 ALL STORM MAINTENANCE HOLES TO BE SIZED IN ACCORDANCE WITH THE PLANS AND AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, AND FRAME AND COVER.

- 3.3 STORM MH COVERS TO BE OPEN TYPE, AS PER CITY STANDARD S24, FRAMES TO BE PER CITY OF OTTAWA STD. S25. CONTRACTOR TO INSTALL FILTER FABRIC UNDER STORM MH COVER UNTIL SODDING IS COMPLETE.
- 3.4 STORM MAINTENANCE HOLES TO BE OPSD. SIZE, SIZE AS SPECIFIED, TAPER TOP.
- 3.5 ALL CATCH BASINS TO BE AS PER OPSD 705.010, FRAME & FISH TYPE GRATE AS PER CITY OF OTTAWA STD. S19.1.
- 3.6 3m 150mm DIAMETER SOCK-WRAPPED PERFORATED PVC SUBGRANS TO BE INSTALLED ALL CBS. TO EXTEND PARALLEL TO CURB IN CBS ADJACENT TO CURB AND IN 4 DIRECTIONS FOR CBS IN CENTER OF PARKING LOT. SUBGRANS TO DISCHARGE TO CBS.
- 3.7 ANY STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22. OR AS APPROVED BY THE ENGINEER.
- 3.8 CONNECTION TO THE EXISTING STORM SEWER TO BE INCLUDED IN THE COST FOR STORM SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUT TO CITY STANDARDS.
- 3.9 CONTRACTOR TO PROVIDE IPEX-TEMPREST MHF ICDS SHOP DRAWINGS, OR EQUIVALENT, FOR ENGINEERS REVIEW PRIOR TO ORDERING ICDS.

4.0 WATER

- 4.1 ALL WATERMANS TO BE PVC DR 18, WITH MINIMUM COVER OF 2.4m AND INSTALLED PER CITY OF OTTAWA STANDARDS. ALL DOMESTIC WATER SERVICES ARE TO BE 200mm ID.
- 4.2 THRUST BLOCKS TO BE INSTALLED AT ALL BENDS, TEES, AND CAPS ALL AS PER OPSD 1103.01 AND 1103.02.
- 4.3 CONTRACTOR TO CONDUCT PRESSURE AND LEAKAGE TESTING OF ALL WATERMANS AND DISINFECT AND CHLORINATE ALL WATERMANS TO THE SATISFACTION OF M.O.E. AND THE CITY OF OTTAWA.
- 4.4 TRACER WIRE TO BE INSTALLED ALONG THE FULL LENGTH OF WATERMAIN AND ATTACHED TO EACH MAIN STOP AS PER CITY OF OTTAWA STANDARDS.
- 4.5 ALL COMPONENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE CATHODICALLY PROTECTED AS PER CITY OF OTTAWA STANDARDS.
- 4.6 ALL VALVES & VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLIES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS.
- 4.7 ANY WATERMAIN WITH LESS THAN 2.4m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22. OR AS APPROVED BY THE ENGINEER.

- 4.8 CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE WATER PERMIT FROM THE CITY OF OTTAWA AND PAYMENT OF ANY FEES ASSOCIATED WITH SECURING THE WATER PERMIT. OWNER IS RESPONSIBLE FOR REIMBURSING THE CONTRACTOR FOR THE ACTUAL COST OF ACQUIRING THE WATER PERMIT.
- 4.9 CONNECTION TO EXISTING WATERMAIN TO BE INCLUDED IN THE COST FOR THE WATERMAIN INSTALLATION. THIS COST INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.
- 4.10 ALL WATERMAIN CROSSINGS TO BE COMPLETED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2.

5.0 PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

- 5.1 CONTRACTOR TO REINSTATE ROAD CUTS PER CITY OF OTTAWA STANDARD R-10.
- 5.2 THE CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN FOR REVIEW AND APPROVAL BY THE CITY OF OTTAWA. CONTRACTOR TO MAINTAIN TRAFFIC FLOW DURING THE ENTIRE CONSTRUCTION PERIOD. MAINTENANCE OF ROAD CUTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVISION OF FLAGMEN, DETOURS AS NECESSARY, BARRICADES AND SIGNS TO THE FULL SATISFACTION OF THE ENGINEER AND ROAD AUTHORITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 5.3 CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.
- 5.4 FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.
- 5.5 CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
- 5.6 GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR B PLACEMENT.
- 5.7 ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR A PLACEMENT.
- 5.8 CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
- 5.9 CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE ENGINEER WITH VERIFICATION PRIOR TO PLACEMENT.
- 5.10 DITCHES DISTURBED DURING CULVERT INSTALLATION AND GRADING OPERATIONS ARE TO BE REINSTEATED TO THEIR ORIGINAL CONDITION AND FLOWLINE GRADES.
- 5.11 EXISTING EAST SIDE ROAD DITCH ALONG PALLADIUM DRIVE TO BE REALIGNED AS PER THE GRADING PLAN. ADJACENT AREAS BETWEEN ROAD SIDE DITCH AND PARKING LOT TO BE RE-GRADED AS PER THE GRADING PLAN. ALL RE-GRADED AREAS IN EXISTING PUBLIC RIGHTS OF WAY AND ANY OTHER DISTURBED AREAS IN EXISTING PUBLIC RIGHTS OF WAY ARE TO BE FINISHED WITH SOD ON 100mm TOPSOIL.
- 5.12 PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESSES) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

SAN STRUCTURE TABLE						
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION
EXMH13123	91.51	NW90.700				1200mmØ OPSD-701.010
MH01A	94.01			SE91.796		1200mmØ OPSD-701.010
MH02A	94.03	NW91.615 SE91.915		NE91.315		1200mmØ OPSD-701.010
MH03A	94.00			NW92.057		1200mmØ OPSD-701.010
MH04A	93.85	SW91.222		NE91.202		1200mmØ OPSD-701.010
MH05A	93.96	SW91.086 SE91.126		NE91.066		1200mmØ OPSD-701.010
MH06A	93.37			NW91.253		1200mmØ OPSD-701.010
MH07A	94.21			NE91.255		1200mmØ OPSD-701.010
MH08A	93.81	SW91.076		SE91.016		1200mmØ OPSD-701.010
MH09A	93.74	SW90.955 NW90.915		SE90.895		1200mmØ OPSD-701.010
MH10A	93.22	NW90.752		SW90.752		1200mmØ OPSD-701.010
MH11A	93.31	NE90.732		SE90.732		1200mmØ OPSD-701.010

STM STRUCTURE TABLE						
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION
EXMH13123	94.14	NW89.694				1200mmØ OPSD-701.010
MH01	93.85	SW91.787		SE90.390		1200mmØ OPSD-701.010
MH02	93.89			NE91.110		1200mmØ OPSD-701.010
MH04	93.85	SW90.800 SE91.041 NW90.700		NE90.141		1200mmØ OPSD-701.010
MH07	93.79	W91.823		SE90.878		1200mmØ OPSD-701.010
MH9	93.71	NW90.175 SW90.025		SE89.875		1500mmØ OPSD-701.011
MH10	93.25	NW89.818		SW89.788		1500mmØ OPSD-701.011
MH11	93.24	NE89.779 SW91.890		SE89.704		1500mmØ OPSD-701.011
MH12	93.86	SW91.842		NW91.167		1200mmØ OPSD-701.010

CROSSING SCHEDULE		
①	200Ø SAN 0.50m	CLEARANCE OVER 300Ø STM.
②	200Ø SAN 0.45m	CLEARANCE OVER 300Ø STM.
③	150Ø W/M 0.30m	CLEARANCE OVER 200Ø SAN.
④	150Ø W/M 0.50m	CLEARANCE OVER 450Ø STM.
⑤	450Ø STM 0.50m	CLEARANCE UNDER 200Ø SAN.
⑥	200Ø W/M 0.45m	CLEARANCE OVER 250Ø STM.
⑦	200Ø SAN 0.50m	CLEARANCE OVER 250Ø STM.
⑧	150Ø W/M 0.50m	CLEARANCE UNDER 200Ø WM.
⑨	150Ø W/M 0.30m	CLEARANCE OVER 200Ø SAN.
⑩	150Ø W/M 0.50m	CLEARANCE UNDER 200Ø WM.
⑪	200Ø SAN 0.50m	CLEARANCE OVER 250Ø STM.
⑫	150Ø W/M 0.50m	CLEARANCE OVER 250Ø STM.
⑬	150Ø W/M 1.00m	CLEARANCE UNDER 200Ø SAN.
⑭	200Ø W/M 0.15m	CLEARANCE UNDER 150Ø W/M.
⑮	200Ø W/M 0.80m	CLEARANCE OVER 300Ø STM.
⑯	200Ø W/M 0.30m	CLEARANCE OVER 200Ø STM.
⑰	200Ø W/M 0.80m	CLEARANCE UNDER 200Ø STM.
⑱	200Ø W/M 0.50m	CLEARANCE UNDER 200Ø SAN.
⑲	150Ø W/M 0.50m	CLEARANCE UNDER 250Ø STM.
⑳	200Ø W/M 0.50m	CLEARANCE OVER 975Ø STM.
㉑	200Ø W/M 1.50m	CLEARANCE OVER 200Ø SAN.

PAVEMENT STRUCTURE **

CAR ONLY PARKING AREAS:

50mm WEAR COURSE - HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
150mm BASE - OPSS GRANULARGRANULAR "A" CRUSHED STONE
300mm SUBBASE - OPSS GRANULAR "B" TYPE II
SUBGRADE - IN SITU SOIL, OR OPSS GRANULAR "B" TYPE I OR II
MATERIAL PLACED OVER IN SITU SOIL

HEAVY TRUCK PARKING AREAS AND ACCESS LANES:

40mm WEAR COURSE - HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm BINDER COURSE - HL-8 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm BASE COURSE - OPSS GRANULAR "A" CRUSHED STONE
450mm SUBBASE - OPSS GRANULAR "B" TYPE II
SUBGRADE - IN SITU SOIL, OR OPSS GRANULAR "B" TYPE I OR II
MATERIAL PLACED OVER IN SITU SOIL

** REFER TO GEOTECHNICAL REPORT BY GOLDER ASSOCIATES 12-1121-0286

WATERAIN SCHEDULE					Finished Grade	Top of Waterain	As Built Waterain
A	0+000.00	TVS			93.457m	91.057m	
	0+031.60	V&VC			94.393m	91.993m	
	0+050.54	V BEND			93.941m	91.541m	
	0+051.04	V BEND			93.935m	91.535m	
	0+057.54	V BEND			94.169m	91.789m	
	0+058.04	V BEND			94.204m	91.804m	
	0+061.31	SERVICE TEE			94.172m	91.772m	
	0+076.65	HYDRANT			94.062m	91.662m	
	0+084.86	11.25" BEND			93.901m	91.501m	
	0+145.92	V BEND			93.720m	91.320m	
	0+146.42	V BEND			93.722m	91.415m	
	0+150.81	45" BEND			93.688m	91.415m	
	0+151.81	V BEND			93.641m	91.415m	
	0+152.31	V BEND			93.630m	91.230m	
	0+153.20	45" BEND			93.612m	91.218m	
	0+162.14	HYDRANT			93.554m	91.154m	
	0+191.77	45" BEND			93.294m	90.894m	
	0+194.55	45" BEND			93.242m	90.842m	
	0+196.35	V&VC			93.240m	90.840m	
	0+202.20	V BEND			93.620m	91.420m	
	0+202.70	V BEND			93.903m	91.503m	
	0+205.93	V BEND			93.130m	90.730m	
	0+206.43	V BEND			93.130m	90.730m	
B	0+210.35	TVS			93.000m	90.800m	
C	0+000.00	TEE			93.989m	91.589m	
	0+004.92	SERVICE TEE			94.304m	91.904m	
	0+006.42	SERVICE TEE			94.208m	91.808m	
	0+008.13	V BEND			94.247m	91.847m	
	0+008.63	V BEND			94.255m	91.855m	
	0+029.19	11.25" BEND			93.910m	91.510m	
	0+061.04	V BEND			93.891m	91.491m	
	0+061.54	V BEND			93.891m	91.569m	
	0+068.54	45" BEND			93.859m	91.569m	
	0+068.03	45" BEND			93.859m	91.569m	
	0+068.99	V BEND			93.785m	91.568m	
	0+069.49	V BEND			93.773m	91.373m	
	0+079.18	SERVICE CROSS			93.658m	91.258m	
	0+082.82	SERVICE CROSS			93.531m	91.131m	
	0+084.25	SERVICE CROSS			93.485m	91.089m	
	0+101.76	SERVICE CROSS			93.408m	91.008m	
D	0+102.50	SERVICE TEE			93.408m	91.008m	
E	0+000.00	TEE			93.989m	91.589m	
	0+002.02	VB			93.955m	91.555m	
	0+002.17	VB			93.955m	91.555m	
	0+003.03	V BEND			93.947m	91.547m	
	0+003.53	V BEND			93.947m	91.547m	
	0+016.19	SERVICE TEE			94.307m	91.907m	
	0+017.76	SERVICE TEE			94.307m	91.907m	
	0+019.87	SERVICE TEE			94.361m	91.961m	
	0+025.38	SERVICE TEE			94.295m	91.895m	
	0+031.33	SERVICE TEE			94.212m	91.812m	
	0+032.81	SERVICE TEE			94.191m	91.791m	
	0+034.81	SERVICE TEE			94.185m	91.789m	
	0+042.28	SERVICE TEE			94.080m	91.680m	
	0+045.98	CAP			94.231m	91.831m	
F	0+000.00	TEE			93.989m	91.589m	
	0+002.02	VB			94.020m	91.620m	
	0+012.03	SERVICE TEE			94.020m	91.620m	
	0+019.50	SERVICE TEE			94.289m	91.889m	
	0+023.19	SERVICE TEE			94.322m	91.922m	
F	0+025.00	TEE			94.232m	91.832m	
	0+030.69	SERVICE TEE			94.226m	91.826m	
	0+041.97	SERVICE TEE			94.220m	91.820m	
	0+045.66	SERVICE TEE			94.215m	91.815m	
G	0+047.65	CAP			94.213m	91.813m	
H	0+000.00	TEE			94.200m	91.800m	
	0+002.00	VB			94.000m	91.410m	
	0+005.54	11.25" BEND			93.900m	91.410m	
	0+009.42	VB			93.813m	91.413m	
	0+041.41	SERVICE CROSS			94.299m	91.899m	
	0+048.88	SERVICE CROSS			94.381m	91.981m	
	0+052.56	SERVICE CROSS			94.369m	91.969m	
	0+063.86	SERVICE CROSS			94.275m	91.875m	
	0+067.56	SERVICE CROSS			94.234m	91.834m	
	0+075.03	SERVICE CROSS			94.153m	91.753m	
H	0+075.97	CAP			94.143m	91.743m	

SEE 010, 011, 012 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS