

// Q U A L R I V U

Sample Reviewed Drawing Set

An AI pass over three sheets of a fictional municipal servicing set.

QualRivu read the set against a municipal design standard and recorded 85 checks on these three sheets - violations and passing confirmations alike. Each one is pinned where it occurs on the sheet and cited to the clause it tests. Open the Comments pane in any PDF reader to list them all.

This is a rough audit.

The notes are the AI pass alone. They have not been verified by a licensed engineer, and the drawings are a fictional sample rather than a real project. In a live review every finding is checked, accepted, rejected or discussed by the reviewer, who holds the determination.

3 sheets · 85 checks · every one cited to a clause

qualrivu.ai



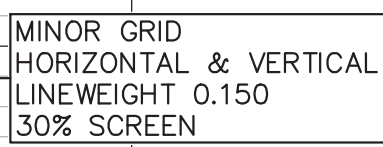
- ① 35mm OF UPPER COURSE#2 ASPHALT
50mm OF LOWER COURSE#2 ASPHALT
- ② 100mm OF 19mm MINUS CRUSHED GRAVEL
GRANULAR BASE COURSE
- ③ 200mm OF 75mm MINUS PIT RUN SAND AND GRAVEL
GRANULAR SUB-BASE COURSE
- ④ APPROVED SUBGRADE COMPACTED TO NOT LESS THAN
95% MPDD AS PER THE GEOTECHNICAL REPORT
- ⑤ 100mm CONCRETE SIDEWALK
- ⑥ MINIMUM 150mm TOPSOIL AND SOD BOULEVARD

DATE _____
BY _____

1. TIE-IN TO BE COMPLETED BY TOWNSHIP OF ALLEGAN FORCES AT OWNER'S COST,
2. ONSITE WATER SYSTEM TO PASS PRESSURE AND BACTERIOLOGICAL TESTING BEFORE CONNECTION IS MADE TO EXISTING WATER SYSTEM.
3. NEW WATERMAIN TO BE INSTALLED TO WITHIN 2.0m OF EXISTING WATERMAIN AT CONNECTION LOCATION.
4. CONTRACTOR TO ENSURE NEW WATERMAIN ELEVATION MATCHES EXISTING WATERMAIN ELEVATION AT CONNECTION LOCATION.
5. CONTRACTOR TO EXPOSE AND CONFIRM ELEVATION AND OFFSET OF ALL UTILITIES BETWEEN NEW WATERMAIN AND EXISTING WATERMAIN AT CONNECTION LOCATION.
6. NO THRUST BLOCKS BEHIND NEW WATERMAIN AND EXISTING WATERMAIN AT CONNECTION LOCATION. ROD AND RESTRAIN AND/OR USE REVERSE THRUST BLOCKS.
7. NEW HYDRANT SERVICED BY TOWNSHIP OF ALLEGAN AT OWNER'S EXPENSE.
8. NO THRUST BLOCK BEHIND BLOW-OFFS, HYDRANT AND STUBS FOR FUTURE USE. ROD & RESTRAIN AND/OR USE REVERSE THRUST BLOCK.
9. USE CERTANTEED COUPLINGS FOR ALL BENDS LESS THAN 3'.



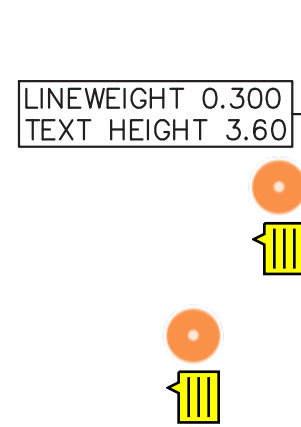
CURB RETURN TABLE														
SEGMENT	BC STA.	BC O/S	EC STA.	EC O/S	LENGTH	RADIUS	DELTA	TANGENT	CHORD	BC ELEV	¼ ELEV	½ ELEV	¾ ELEV	EC ELEV
C1	3+094.29	5.40 R	0+204.31	5.40 L	14.12	9.00	89°53'24"	8.98	12.72	65.15	65.43	65.57	65.47	65.57
C2	3+064.69	5.40 R	0+204.48	5.40 R	14.65	9.00	93°17'46"	9.53	13.09	66.29	66.23	66.16	65.69	65.61



MAJOR GRID
HORIZONTAL & VERTICAL
LINEWEIGHT 0.15

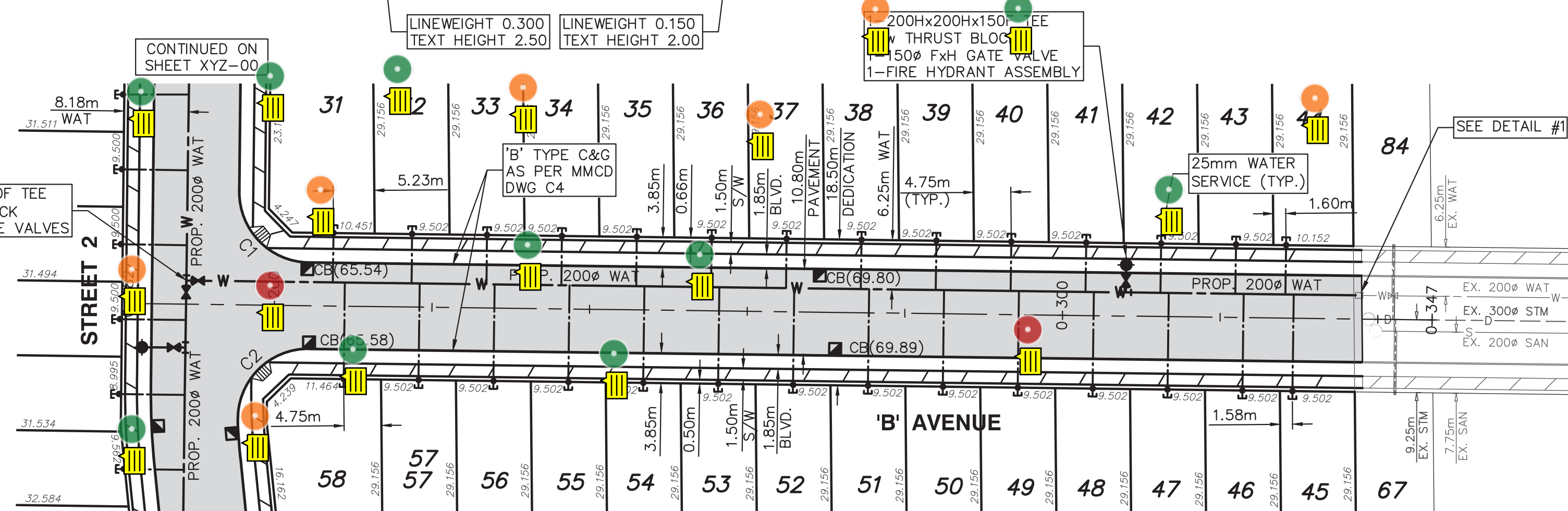
LINEWEIGHT 0.300
TEXT HEIGHT 2.50

		BACKFILL & BEDDING NOTE													
ROAD CENTERLINE ELEVATIONS	PROPOSED EXISTING													ROAD CENTERLINE ELEVATIONS	
WATERMAIN LENGTH, SIZE, TYPE & GRADE		26.19m-200Ø PVC DR 18 WAT @ 0.80% 66.43 66.43 68.05 68.05 69.51 69.51 70.32 70.32 70.84 70.84 71.18 71.18 70.88												WATERMAIN LENGTH, SIZE, TYPE & GRADE	
WATERMAIN INVERT ELEVATIONS		64.04 64.26 67.66 69.24 69.37 69.69												WATERMAIN INVERT ELEVATIONS	
CHAINAGE		0+180 0+188.81 0+200 0+215 0+220 0+240 0+255 0+260 0+280 0+295 0+300 0+308 0+320 0+337.14 0+340 0+360												CHAINAGE	



EXISTING BLOW-OFF TO BE REMOVED:
WATER TIE IN BY TOWNSHIP OF
ALLEGAN FORCES AT OWNER'S COST.
TOWNSHIP OF ALLEGAN TO SUPPLY:
2-200Ø FIELD COUPLING (TOWNSHIP
OF ALLEGAN PROVIDES ALL MATERIALS
FOR TIE-IN AT OWNER'S COST)

1-200Fx200Hx200F TEE
C/W THRUST BLOCK
2-200Ø FxH GATE VALVES

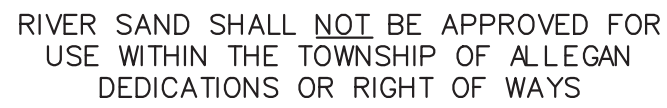


RIVER SAND SHALL NOT BE APPROVED FOR
USE WITHIN THE TOWNSHIP OF ALLEGAN
DEDICATIONS OR RIGHT OF WAYS

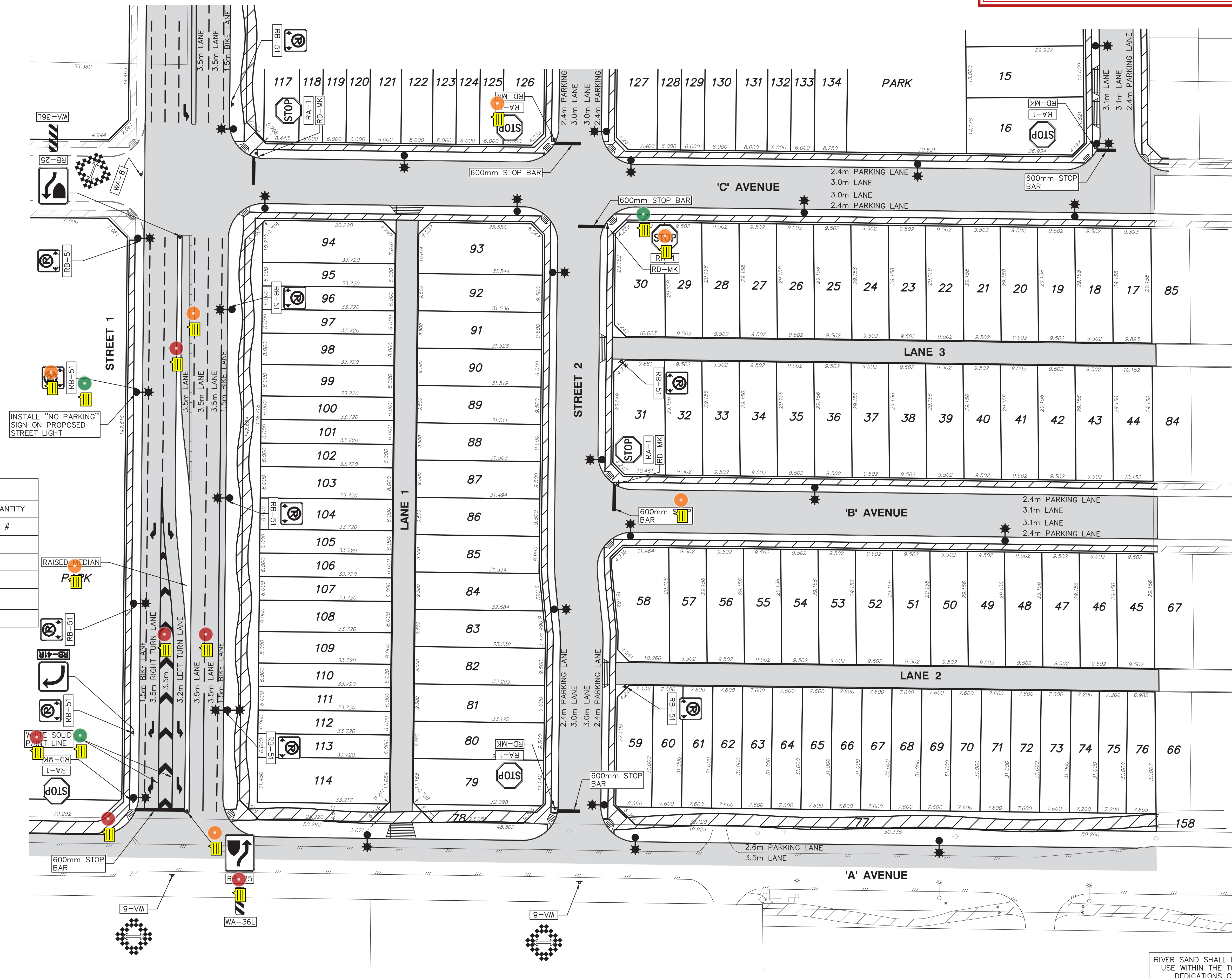
MUNICIPAL PROJECT No. xx-xx-xxxx

NOTES	BENCHMARK	XYZ	OWNER	OWNER'S ENGINEER	SEAL	DESIGN BY	No	Date	REVISIONS	PLAN & PROFILE	
CONTRACTOR TO CONTACT TELUS, BC HYDRO, FORTISBC AND BC ONE ALL PRIOR TO CONSTRUCTION TO CONFIRM LOCATIONS OF UTILITIES AND APPURTENANCES REQUIRING ADJUSTMENT.	LEGAL	XYZ	XYZ LOGO	XYZ LOGO	I, _____, PROFESSIONAL ENGINEER, IN GOOD STANDING IN AND FOR THE PROVINCE OF BRITISH COLUMBIA, HEREBY CERTIFY THAT THE WORKS IN HEREIN SET OUT ON THE ATTACHED DRAWINGS HAVE BEEN DESIGNED TO GOOD ENGINEERING PRACTICE AND IN COMPLIANCE WITH THE TOWNSHIP OF ALLEGAN SUBDIVISION AND DEVELOPMENT CONTROL BYLAW, EXCEPT AS NOTED BELOW. EXCEPTIONS: _____	DESIGN BY			XYZ	SCALE: HORIZ. 1:500 VERT. 1:50	
		XYZ					DRAWN BY				XYZ
							CHECKED BY				XYZ
							DATE				XYZ

ROADWORKS AND WATERWORKS "B" AVENUE EAST OF STREET 2 ADDRESS (TYP.)			
DESIGN FILE No.		PLAN No. XYZ-	
AS BUILT No. XYZ-		SHEET NO. of XX	REV. _____



NOTES		XYZ	OWNER	OWNER'S ENGINEER	SEAL	1. I, _____, A PROFESSIONAL ENGINEER, IN GOOD STANDING IN AND FOR THE PROVINCE OF BRITISH COLUMBIA, HEREBY CERTIFY THAT THE WORKS IN HEREIN SET OUT ON THE ATTACHED DRAWINGS HAVE BEEN DESIGNED TO GOOD ENGINEERING PRACTICE AND IN CONFORMANCE WITH THE TOWNSHIP OF ALEGAN SUBDIVISION AND DEVELOPMENT CONTROL BYLAW, EXCEPT AS NOTED BELOW.	No	Date	REVISIONS
CONTRACTOR TO CONTACT TELUS, BC HYDRO, FORTISBC AND BC ONE CALL PRIOR TO CONSTRUCTION TO CONFIRM LOCATIONS OF UTILITIES AND APPURTENANCES REQUIRING ADJUSTMENT.	  BENCHMARK LEGAL	XYZ	XYZ 	XYZ 					
		XYZ				EXCEPTIONS: _____ 			



RIVER SAND SHALL NOT BE APPROVED FOR
USE WITHIN THE TOWNSHIP OF ALLEGAN
DEDICATIONS OR RIGHT OF WAYS

MUNICIPAL PROJECT No. xx-xx-xxxx

NOTES	BENCHMARK 	OWNER	OWNER'S ENGINEER	SEAL 	I, _____, PROFESSIONAL ENGINEER, IN GOOD STANDING IN AND FOR THE PROVINCE OF BRITISH COLUMBIA, HEREBY CERTIFY THAT THE WORKS IN HEREIN SET OUT ON THE ATTACHED DRAWINGS HAVE BEEN DESIGNED TO GOOD ENGINEERING PRACTICE AND IN COMPLIANCE WITH THE TOWNSHIP OF ALLEGAN SUBDIVISION AND DEVELOPMENT CONTROL BYLAW, EXCEPT AS NOTED BELOW. EXCEPTIONS: _____	No	Date	REVISIONS	PLAN 	DESIGN BY: XYZ
CONTRACTOR TO CONTACT TELUS, BC HYDRO, FORTISBC AND BC ONE CALL PRIOR TO CONSTRUCTION TO CONFIRM LOCATIONS OF UTILITIES AND APPURTENANCES REQUIRING ADJUSTMENT.	LEGAL XYZ	XYZ 	XYZ 							DRAWN BY: XYZ
										APPROVED BY: XYZ
										DATE:  XYZ
										SCALE: HORIZ. 1:500 VERT. N/A

PAVEMENT MARKING AND SIGNAGE PLAN			
ADDRESS (TYP.) 			
DESIGN FILE No.	PLAN No. XYZ-	REV.	
AS BUILT No. XYZ-	SHEET NO. of XX	.	