

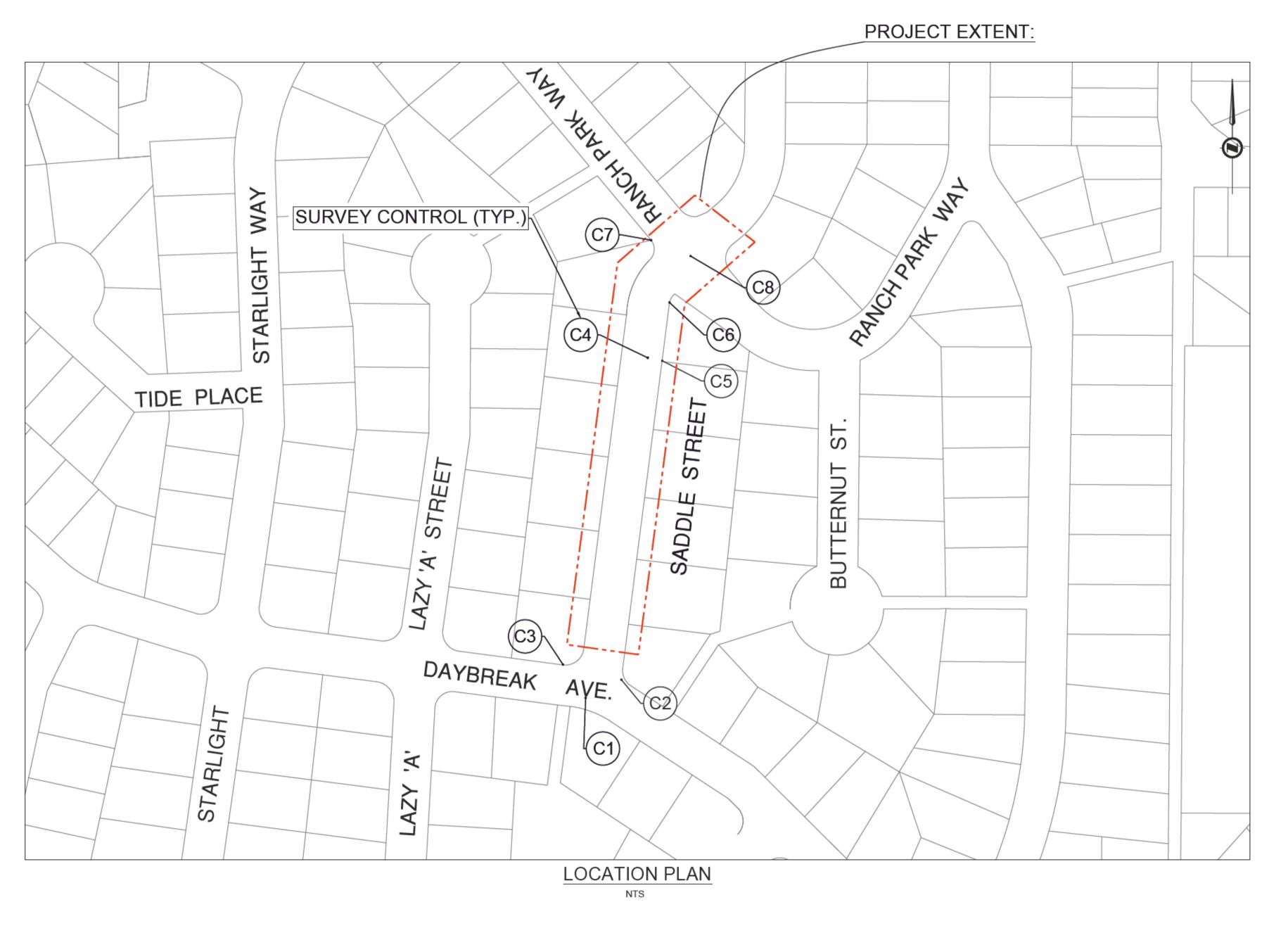
## CITY OF COQUITLAM

# SANITARY UPGRADES SADDLE STREET

	DRAWING SCHEDULE			
	SHEET NO.	TITLE	DESCRIPTION	
GENERAL	00	COVER		
	01	NOTES		
	02	TYPICAL CONSTRUCTION DETAILS		
SANITARY	03	SADDLE STREET	STA. 1+000 TO STA. 1+200	

PROJECT SURVEY CONTROL				
NAME	TYPE	EASTING	NORTHING	ELEVATION
C1	STATION TAG	5459266.1170	514340.6843	91.6410
C2	OLD IRON PIN	5459274.353	514357.9574	90.0290
C3	OLD IRON PIN	5459281.761	514329.3797	92.509
C4	STATION TAG	5459431.688	514370.8737	82.388
C5	OLD IRON PIN	5459430.228	514377.9567	82.203
C6	OLD IRON PIN	5459458.802	514381.6282	79.645
C7	OLD IRON PIN	5459489.103	514372.5574	79.051
C8	SURVEY MONUMENT	5459481.401	514391.8304	76.869

ALL CONTROL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE



ISSUED: 2024/06/28

**ISSUED FOR TENDER** 



 PLATINUM EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD); MINISTRY OF FORESTS, LANDS, NATURAL RESOURCE OPERATIONS AND RURAL DEVELOPMENT AND/OR FEDERAL DEPARTMENT OF FISHERIES AND OCEANS; AND - WORKSAFEBC, LATEST EDITION

- MINISTRY OF TRANSPORTATION "BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS", LATEST

THE CONTRACTOR SHALL BE FAMILIAR WITH THE ABOVE DOCUMENTS AND SHALL ENSURE THAT ALL SUB CONTRACTORS ARE THOROUGHLY FAMILIAR WITH THE APPLICABLE SECTIONS OF THE DOCUMENTS.

- 2. THE LOCATION OF EXISTING UTILITIES IS COMPILED FROM OWNER AND UTILITY SUPPLIED RECORD DRAWINGS AND ARE CONSIDERED APPROXIMATE ONLY. THE EXACT LOCATION AND EXTENT OF UTILITIES SHOULD BE DETERMINED BY CONSULTING THE LOCAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND INVERT ELEVATION BY HAND OR HYDROVAC EXCAVATION BEFORE CONSTRUCTION OF UTILITY CROSSINGS AND SHALL BE RESPONSIBLE FOR RESTORATION OF ANY DAMAGE TO EXISTING UTILITIES. ANY COSTS ASSOCIATED WITH UTILITY CONFLICTS THAT WERE NOT PRELOCATED WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- 3. NOTIFY THE CITY OF COQUITLAM 48 HOURS IN ADVANCE OF ANY CONSTRUCTION OR UTILITY RELOCATION.
- 4. REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER A MIN 72 HOURS PRIOR TO CONSTRUCTION.
- ALL SURVEY MONUMENTS WITHIN THE PROJECT BOUNDARIES SHALL BE PROTECTED DURING THE COURSE OF THE WORK. SHOULD ANY SURVEY MONUMENT REQUIRE RAISING OR RELOCATION. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEERING AND OPERATIONS DEPARTMENT AT LEAST 72 HOURS IN ADVANCE OF SCHEDULING WORK. ALL DISTURBED MONUMENTS WILL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. IF MONUMENTS ARE IN CLOSE PROXIMITY TO PROPOSED ALIGNMENT, CONTRACTOR TO NOTIFY THE CITY WHEN MONUMENTS ARE REMOVED.
- SURVEY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 7. ALL PUBLIC ROADWAYS AFFECTED BY THE WORKS SHALL BE KEPT IN A CLEAN STATE AT ALL TIMES. DUST CONTROL MEASURES SHALL ALSO BE EMPLOYED DURING THE COURSE OF THE WORK.
- 8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING THE VARIOUS PARTS OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THERE IS NO DISRUPTION TO SERVICE, AND IF DISRUPTION IS ANTICIPATED, TO NOTIFY THE DESIGN ENGINEER A MINIMUM OF 72 HOURS PRIOR, AND OBTAIN APPROVAL FOR THE DISRUPTION.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITY POLE SUPPORTS NECESSARY TO COMPLETE THE WORKS AS AN INCIDENTAL ITEM TO GENERAL CONTRACT REQUIREMENTS WHERE AND AS
- CONTRACTOR TO MAINTAIN AN UP TO DATE SET OF AS-CONSTRUCTED DRAWINGS AT ALL TIMES. AS-CONSTRUCTED DRAWINGS TO BE DELIVERED TO THE ENGINEER AT SUBSTANTIAL PERFORMANCE FOR PREPARATION OF FINAL RECORD DRAWINGS. THE ENGINEER SHALL BE PROVIDED ACCESS TO REVIEW THE AS-CONSTRUCTED DRAWINGS AT ALL TIMES TO CONFIRM THEY ARE UP TO DATE.
- THE CONTRACTOR SHALL MAINTAIN THE PROVISIONS FOR EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING STREETS, SIDEWALKS, WHEELCHAIR LETDOWNS, SERVICES, SIGNS, LANDSCAPING, DRIVEWAY LETDOWNS, PRIVATE LANDSCAPING, OR PRIVATE IMPROVEMENTS THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION. REPAIRS TO EXISTING CITY SERVICES SUCH AS WATER, SANITARY SEWER AND STORM SEWER, SHALL BE MADE BY THE CITY AT COST TO THE CONTRACTOR. REPAIRS TO EXISTING SURFACE WORKS MAY BE DONE BY THE CONTRACTOR AT THE DISCRETION OF THE CITY.
- 13. RESTORATION OF EXISTING ROADWAYS, DRIVEWAYS, CURBS, STAIRS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS AND BE INCIDENTAL TO THE UNIT PRICES IN THE CONTRACT. PROTECTION OF EXISTING UTILITIES, SHRUBS AND TREES TO BE INCIDENTAL TO THE UNIT PRICES IN THE
- SURVEY IS BASED UPON NAD83 UTM GROUND COORDINATES. SURVEY BASED ON LOCAL VERTICAL
- THE CONTRACTOR SHALL PROVIDE TEMPORARY HOT MIX ASPHALT PATCHING TO CITY REQUIREMENTS AT ALL NECESSARY LOCATIONS. USE OF COLD MIX IS NOT ACCEPTABLE. TEMPORARY PATCHING OF SIDEWALKS AND CURBS AND GUTTERS IS ALSO TO BE MADE WITH HOT MIX AND MEET THE EXISTING SURFACE.
- 16. FIGURED DIMENSIONS WILL GOVERN OVER SCALED DIMENSIONS.
- 17. ALL TESTING OF MATERIAL AND COMPACTION SHALL BE PERFORMED BY A CERTIFIED TESTING AGENCY UNDER THE DIRECTION OF THE CONTRACT ADMINISTRATOR OR APPROVED REPRESENTATIVE. COPIES OF THE TESTING REPORT SHALL BE SUBMITTED TO THE CITY AND THE CONTRACT ADMINISTRATOR AS SOON AS IN RECEIPT.
- 18. ALL SHOP DRAWINGS SHALL BE REVIEWED BY ISL ENGINEERING AND LAND SERVICES LTD. PRIOR TO

## TRAFFIC MANAGEMENT, NOTIFICATION AND APPROVALS NOTES:

- THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SIGNAGE, BARRIERS, FLASHING INDICATORS, ETC. AT ALL TIMES TO ENSURE THE SAFETY OF THE PUBLIC. TRAFFIC CONTROL WILL BE REQUIRED FOR ALL CONSTRUCTION WORKS WITHIN THE TRAVELED PORTION OF THE ROAD. NO ROAD SHALL BE CLOSED WITHOUT THE WRITTEN CONSENT OF THE DIRECTOR OF ENGINEERING AND OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCAVATED MATERIAL UNSUITABLE FOR REUSE AT A SUITABLE OFF-SITE DISPOSAL AREA, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS REQUIRED FOR THE PROPOSED WORKS HAVE BEEN OBTAINED FROM ALL AUTHORITIES AND AGENCIES PRIOR TO COMMENCING
- THE CONTRACTOR SHALL ARRANGE FOR, AND COORDINATE THE WORKS DONE BY:
  - CITY OF COQUITLAM; AND
  - FRANCHISE UTILITIES (BC HYDRO, FORTIS GAS, BC TRANSMISSION CORP., SHAW CABLE, TELUS AND METRO VANCOUVER).
- THE CONTRACTOR SHALL CONTACT THE APPROPRIATE PERSONNEL AT LEAST 72 HOURS PRIOR TO THE WORK. SCHEDULING AND OTHER CONSTRUCTION CONSTRAINTS IMPOSED BY THESE WORKS SHALL BE TAKEN INTO ACCOUNT.
- RESIDENTS DIRECTLY AFFECTED BY CONSTRUCTION OF THESE WORKS AND SERVICES SHALL BE GIVEN 5 DAYS WRITTEN NOTICE OF THE PROPOSED START OF CONSTRUCTION. THE CITY IS TO DISTRIBUTE A NOTICE OF CONSTRUCTION LETTER TO ALL AFFECTED RESIDENTS AND BUSINESSES. LETTER TO DIRECT INQUIRIES TO CONTRACT ADMINISTRATOR. FOLLOWING CONSTRUCTION ACTIVITY ON ANY PRIVATE PROPERTY, A WRITTEN RELEASE MAY BE REQUIRED FROM THE PROPERTY OWNER AT THE DISCRETION OF THE CITY.
- A TRAFFIC AND PEDESTRIAN SAFETY CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 8. APPROVALS FOR REQUIRED TREE CUTTING OR TRIMMING NOT INDICATED IN CONTRACT DRAWINGS SHALL BE OBTAINED BY THE CONTRACTOR FROM THE CITY PRIOR TO WORK BEING PERFORMED.
- CONTRACTOR TO OBTAIN APPROVED LANE CLOSURE REQUEST FORM FOR ALL WORKS. APPROVED REQUESTS ARE CIRCULATED TO ALL EMERGENCY SERVICES.
- 10. CONTRACTOR TO SUBMIT A TRAFFIC MANAGEMENT PLAN WITH LANE CLOSURE REQUEST FOR ALL MAJOR ROADS AND ANY LOCAL ROADS WHICH REQUIRE ANY DETOURS.
- 11. APPROVAL OF NOISE VARIANCE FOR ALL WORK OUTSIDE OF NORMAL APPROVED WORK HOURS REQUIRED BY THE CITY.
- 12. NOTICE OF CONSTRUCTION SIGNS TO BE INSTALLED AT ALL PROJECT LIMITS AND PREFERRED DETOUR ROUTE. NOTIFY CONTRACT ADMINISTRATOR WITH CONSTRUCTION SCHEDULE AND LOCATIONS. SIGNS PROVIDED AND INSTALLED BY THE CITY.
- ALL PAVEMENT MARKINGS TO BE REINSTATED BY CITY CONTRACTOR.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETION OF ALL TAPED TEMPORARY AND PERMANENT PAINT AND THERMOPLASTIC PAVEMENT MARKINGS IN THE PLACE OF THE WORK. PERMANENT LANE MARKINGS ARE TO BE PLACED WITHIN SEVENTY-TWO (72) HOURS OF FINAL PAVING AND PERMANENT THERMOPLASTIC PAVEMENT MARKINGS ARE TO BE PLACED WITHIN FIVE (5) DAYS OF FINAL PAVING. ALL TEMPORARY MARKINGS TO BE REMOVED IMMEDIATELY FOLLOWING PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 15. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE TRAFFIC MANAGEMENT DETAILED SPECIFICATIONS IN THE CONTRACT DOCUMENTS.
- 16. ALIGN ALL THERMOPLASTIC STOP BARS WITH ADJACENT STOP SIGN. CONSULT WITH CITY WHERE NO STOP SIGNS ARE AVAILABLE OR ARE DAMAGED TO SCHEDULE REPLACEMENT.
- 17. STEEL PLATING OF ROADWAY IS ONLY ALLOWED WHEN PERMITTED BY THE CONTRACT ADMINISTRATOR, AND IN ACCORDANCE WITH DIRECTIONS PROVIDED BY CONTRACT ADMINISTRATOR FOR PINNING DOWN PLATES, PLACING HOT MIX AROUND PLATES FOR RAMPING AND INCLUDING WELDED WIRE ON PLATES FOR TRACTION.

### SANITARY SEWER NOTES:

- NO CHANGES TO BE MADE TO PIPES, MANHOLES, OR ALIGNMENT WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR IS TO EXPOSE EXISTING WATERMAINS, STORM AND SANITARY SEWERS AT TIE-IN LOCATION AND ALL EXISTING UTILITIES BETWEEN. UTILITY DEPTHS AND LOCATIONS ARE TO BE RECORDED AND FORWARDED TO THE CONTRACT ADMINISTRATOR FOR REVIEW.
- SANITARY SERVICES TO BE 125Ø HDPE DR17 AT MINIMUM 2% SLOPE, UNLESS NOTED
- MINIMUM COVER OVER SANITARY SEWERS AND SERVICES ARE TO BE 1.2m RESPECTIVELY UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- SANITARY SERVICE LOCATIONS SHOWN ARE APPROXIMATE ONLY AND ARE AVAILABLE ONLINE THROUGH CITY OF COQUITLAM GIS WEBSITE. CONFIRM SERVICE SIZE, LOCATION, AND ALL POTENTIAL UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO LOCATE ANY EXISTING SANITARY SERVICES TO PROPERTIES. PROVIDE NEW SERVICE CONNECTION TO MMCD S9, C/W CONCRETE BROOKS BOX WITH STEEL PLATE LID MARKED
- CONTRACTOR IS RESPONSIBLE FOR TRANSFER OF SERVICE CONNECTIONS AT BOTH THE PROPERTY LINE AND AT THE MAIN.
- 8. ALL SEWER AIR TESTING & CCTV INSPECTIONS SHALL BE TO THE CITY OF COQUITLAM STANDARDS AND SPECIFICATIONS.
- CONTRACTOR TO INCLUDE BYPASS PUMPING AS REQUIRED TO MAINTAIN 24/7 SERVICE TO ALL EXISTING PROPERTIES. THE CONTRACTOR SHALL PROVIDE A DETAILED FLOW BYPASS PLAN, ACCEPTABLE TO BOTH THE CITY AND CONTRACT ADMINISTRATOR FOR APPROVAL BEFORE STARTING CONSTRUCTION.
- 10. NEW SANITARY SEWER MANHOLES TO MMCD S1 AND S2.
- 11. CONTRACTOR TO FLUSH ALL SEWERS & SERVICES AND PERFORM CCTV INSPECTION UPON COMPLETION.
- 12. CONTRACTOR TO PROVIDE NEW BENCHING WHERE TIE-INS TO EXISTING MANHOLES IS
- 13. ALL TIE-INS TO EXISTING MANHOLES ARE TO BE CORED c/w GROUT.
- FIGURED DIMENSION SHALL GOVERN OVER SCALED DIMENSIONS.
- REFER TO COQ STD. DWG. COQ-G4 FOR UTILITY TRENCH DETAIL.
- SANITARY SEWER MATERIALS ARE TO CONFORM TO THE MMCD SPECIFICATIONS.
- 17. ALL EXISTING SANITARY MAINS THAT ARE ABANDONED ARE TO BE CAPPED. ALL EXISTING SANITARY SERVICE CONNECTIONS THAT ARE ABANDONED ARE TO CAPPED WHERE THE NEW SERVICE CONNECTION TIES IN TO THE EXISTING CONNECTION AT THE PROPERTY LINE. FOR CLARITY, DRAWINGS DO NOT INDICATE ALL CAPS REQUIRED.
- 18. ALL ABANDONED MANHOLES TO BE REMOVED TO A MINIMUM OF 1.2m BELOW FINISHED GRADE AND FILLED WITH APPROVED 19mm MINUS CRUSHED GRANULAR BACKFILL COMPACTED TO 95% MODIFIED PROCTOR DENSITY, AND HAVE FRAME & COVER RETURNED TO CITY OF COQUITLAM OPERATIONS YARD. INLETS AND OUTLETS ARE TO BE PLUGGED WITH GROUT.
- 19. PRIOR TO ABANDONING EXISTING MANHOLES, AND AFTER CAPPING UPSTREAM END OF EXISTING SANITARY MAIN. CONTRACTOR TO CCTV EXISTING SANITARY MAIN TO CONFIRM ALL SERVICES HAVE BEEN TRANSFERRED TO NEW MAIN AND THAT THERE IS NO SEWER FLOW ENTERING THE EXISTING MAIN TO BE ABANDONED.

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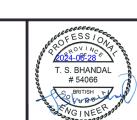
UTILITY SERVICES TO INDIVIDUAL LOTS, CATCH BASIN LEADS, STREET LIGHT CONDUIT AND TRAFFIC SIGNAL CONDUIT ARE NOT ALWAYS SHOWN ON THE DRAWINGS FOR THE PURPOSE OF CLARITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITY SERVICES IN THE FIELD PRIOR TO CONSTRUCTION. ANY COSTS ASSOCIATED WITH UTILITY CONFLICTS OR DAMAGE CAUSED TO UTILITIES THAT WERE NOT PRELOCATED PRIOR TO CONSTRUCTION WILL BE THE CONTRACTORS RESPONSIBILITY.

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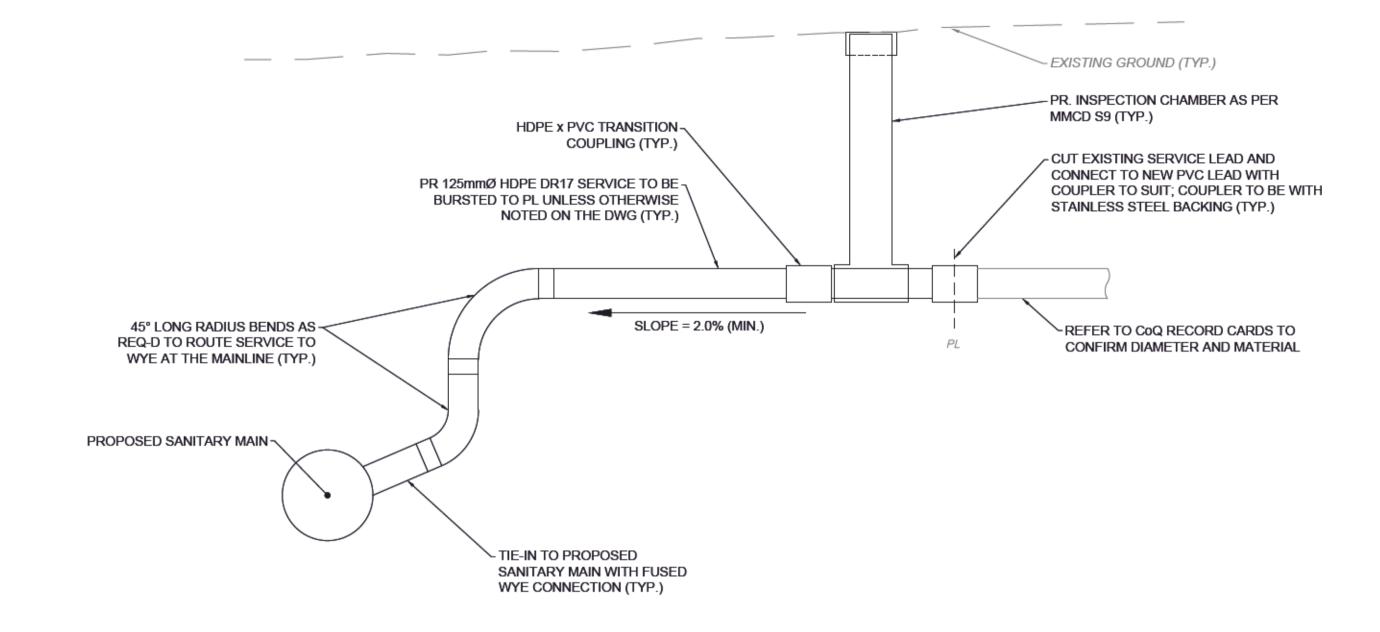
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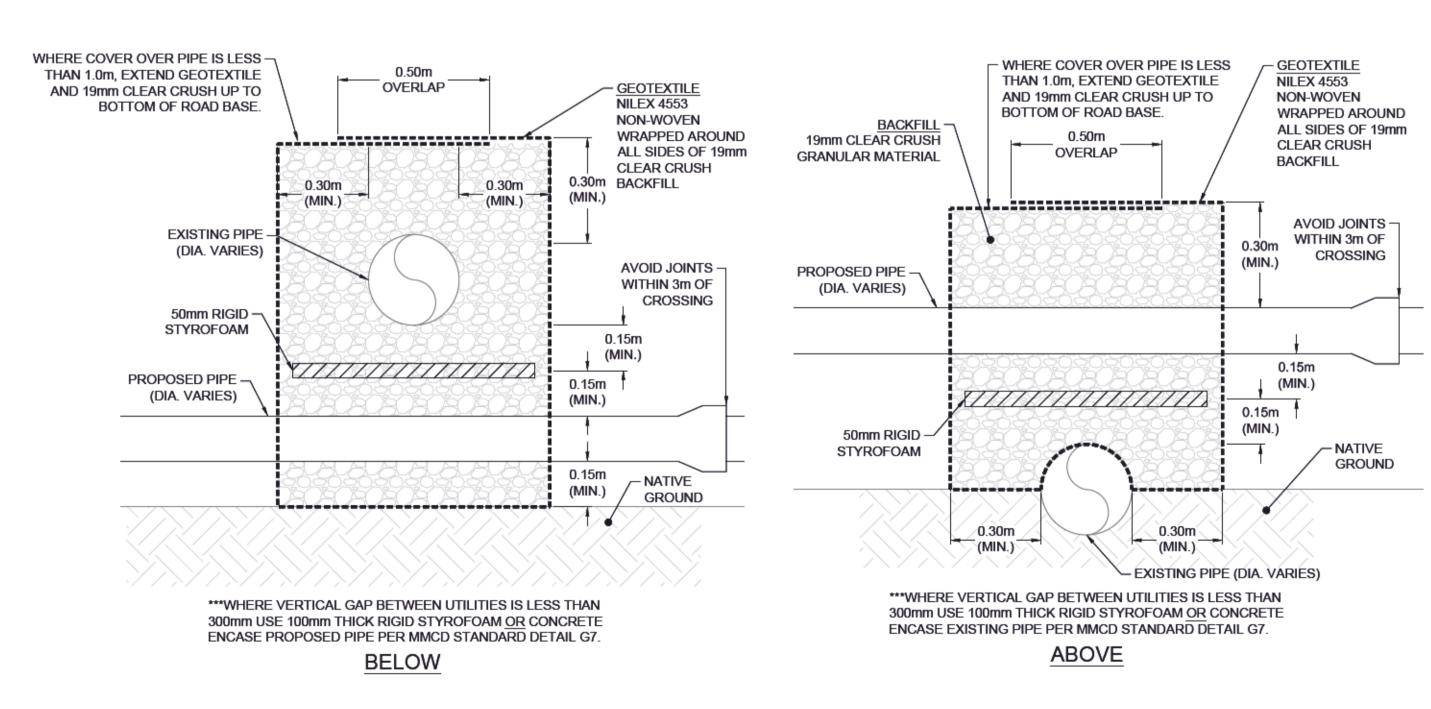




SCALE: NTS



**DETAIL 3 - SANITARY SERVICE TIE-IN** SCALE: NTS



DETAIL 2 - TYPICAL UTILITY CROSSING SCALE: NTS

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DATE DRAWN APPR'D 2024/06/28 AA TSB

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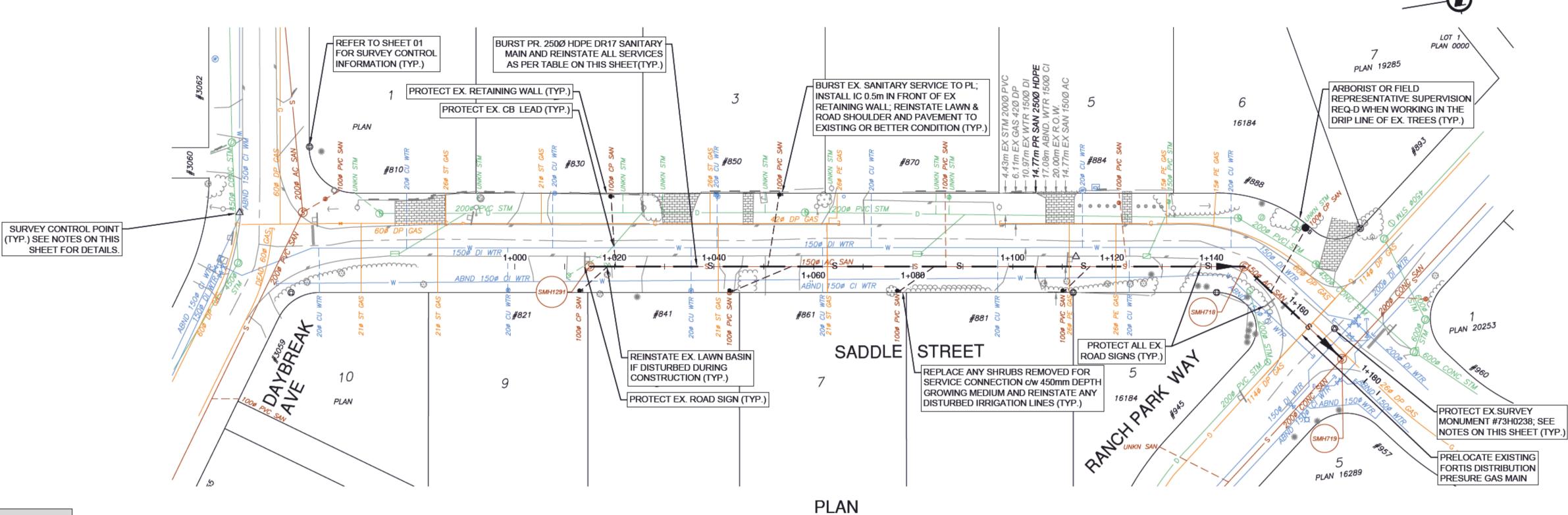


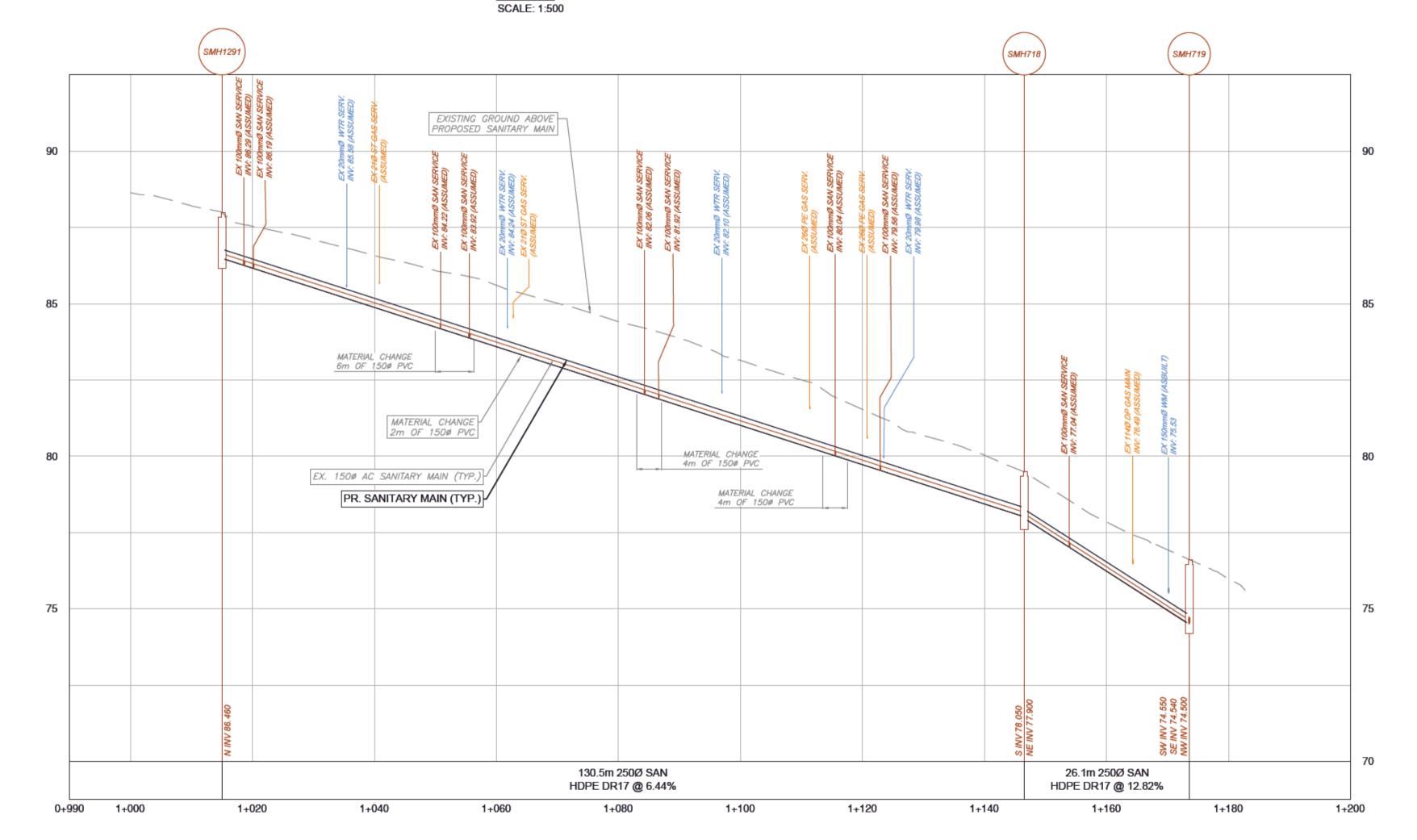
SCALE	AS SHOWN	CREATION DATE	2024/06	DWG. NO.
DRAWN BY	AA	DESIGN BY	AA	02 of
CHECKED BY	TSB	APPROVED BY	TSB	03
PLOT DATE	June 28, 2024			REV. A

### NOTES

- REFER TO COVER SHEET FOR SURVEY CONTROL.
- 2. REFER TO SHEETS 01 AND 02 FOR SANITARY SEWER CONSTRUCTION NOTES AND DETAILS.
- 3. ALL SANITARY SERVICES TO BE BURSTED UNLESS NOTED OTHERWISE.
- 4. ALL SERVICE CROSSINGS AND SIZES TO BE PRE-LOCATED PRIOR TO CONSTRUCTION AND ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES. CONTRACTOR TO CCTV ALL EXISTING SANITARY SERVICE CONNECTIONS AND PROVIDE TO CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION & TRANSFER OF NEW
- 5. CONDUITS AND DUCTS ARE TO BE PRE-LOCATED WITH HYDROVAC PRIOR TO CONSTRUCTION TO CONFIRM DEPTH OF COVER. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES.
- CONTRACTOR TO RETAIN EXISTING SANITARY MANHOLES.
- 7. ALL PROPOSED SANITARY SEWER MAINLINE TO BE 250mm HDPE
- 8. ALL SERVICE CONNECTIONS TO BE MINIMUM 125Ø HDPE DR17. SERVICES TO BE UPGRADED UP TO PROPERTY LINE (UNLESS NOTED OTHERWISE ON DRAWINGS) COMPLETE WITH INSPECTION CHAMBER PER MMCD S9 C/W CONCRETE BROOKS BOX WITH STEEL PLATE LID MARKED "SANITARY".
- 9. ALL HYDRO POLES AND STREETLIGHT POLES TO BE SUPPORTED DURING EXCAVATION.
- 10. FINAL LOCATION OF IC CHAMBERS TO BE CONFIRMED WITH CONTRACT ADMINISTRATOR OR FIELD REPRESENTATIVE PRIOR TO EXCAVATION.
- 11. EXISTING SANITARY FLOW TO BE BYPASSED DURING CONSTRUCTION AS REQUIRED.
- 12. EXISTING PVC SERVICES ARE TO BE TREATED AS OPTIONAL UPGRADES UNTIL PRE-CONSTRUCTION VIDEO IS REVIEWED BY CONTRACT ADMINISTRATOR OR FIELD REPRESENTATIVE. CITY WILL CONFIRM IF PVC SERVICES REQUIRE FULL UPGRADE OR INSPECTION CHAMBER INSTALLATION ONLY.

SANITARY SERVICE LIST				
PROPERTY	EX. SERVICE	LOCATION (ASBUILT)	IC RIM ELEV	COMMENTS
888 SADDLE STREET	100Ø CP	10.67 S OF N PL	-	REPLACE
884 SADDLE STREET	100Ø PVC	11 m S OF N PL	±80.93m	TRANSFER
870 SADDLE STREET	100Ø PVC	10.65m S OF N PL	-	TRANSFER
850 SADDLE STREET	100Ø PVC	9.14m S OF N PL	-	REPLACE
830 SADDLE STREET	100Ø CP	9.14m S OF N PL	-	REPLACE
821 SADDLE STREET	100Ø CP	1.83m S OF N PL	-	REPLACE
841 SADDLE STREET	100Ø PVC	2.13m S OF N PL	-	REPLACE
861 SADDLE STREET	100Ø PVC	1.83m S OF N PL	-	REPLACE
881 SADDLE STREET	100Ø PVC	2.13m S OF N PL	-	REPLACE





**PROFILE** SCALE: 1:500H / 1:50V

REV NO. REVISION DESCRIPTION 2024/06/28 AA TSB A ISSUED FOR TENDER

Coouitlam

SANITARY **SEWER** 

SADDLE STREET STA 1+000m TO STA 1+200m



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tenning Drive, Burnaby, B.C. V5C 6P9 4)629-2696 F: (604)629-2698	١,

ISSUED FOR TENDER DESIGN NO. 33927 CREATION DATE 2024/06 AS SHOWN DRAWN BY AA DESIGN BY 03 CHECKED BY TSB APPROVED BY rev. A PLOT DATE June 28, 2024