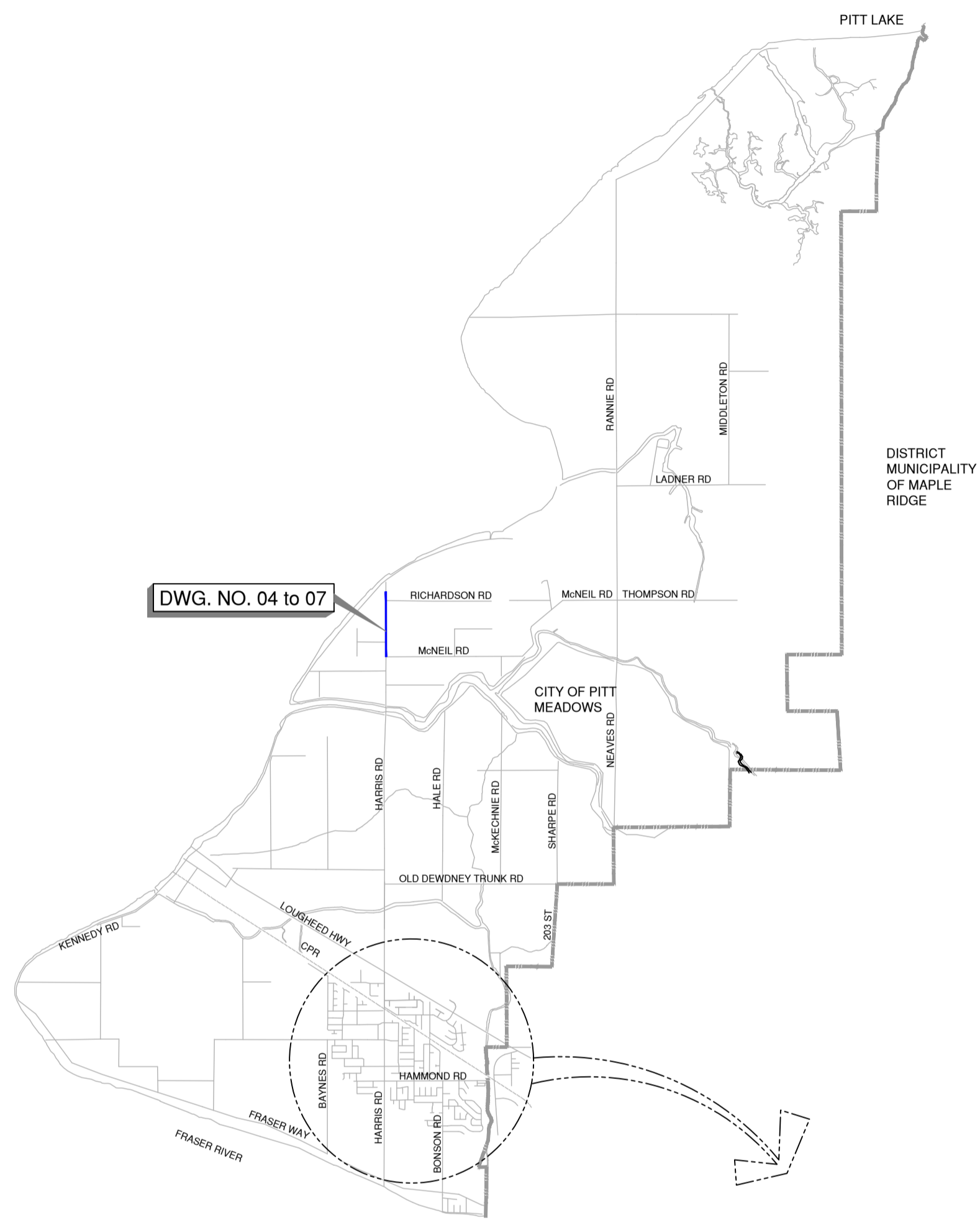
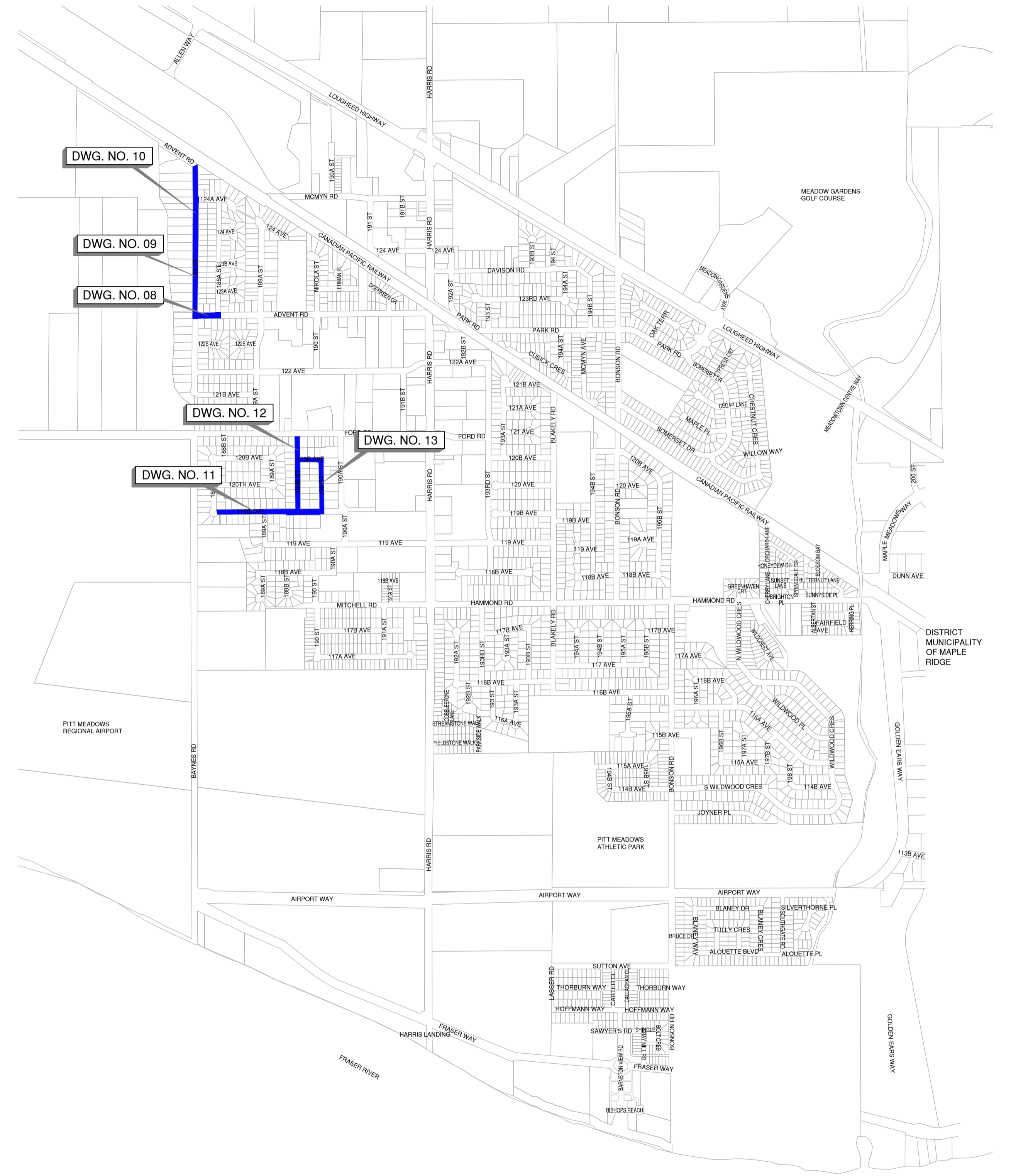


2026 CAPITAL WORKS - UTILITIES



LOCATION MAP
SCALE: NTS



SITE PLAN
SCALE: 1:10,000

LEGEND

PROPOSED		EXISTING		
				RIGHT OF WAY
				WATER MAIN
				WATER SERVICE
				STORM MAIN
				STORM SERVICE
				CB / DRAINAGE LEAD
				DRAINAGE SWALE
				SANITARY SEWER MAIN
				SANITARY SERVICE
				ELECTRICAL
				CONDUIT
				GAS
				FENCE
				RETAINING WALL
				EDGE OF GRAVEL
				BOTTOM OF BANK
				TOP OF BANK
				EDGE OF PAVEMENT
				STREAM / CREEK / DITCH

DRAWING SCHEDULE		
DWG. No.	DRAWING TITLE	DRAWING DESCRIPTION
00	COVER SHEET	
01	NOTES	
02	DETAILS	
03	DETAILS TWO	
04	WATERWORKS- HARRIS ROAD	MCNEIL RD. TO STA. 100+250
05	WATERWORKS- HARRIS ROAD	STA. 100+250 TO 100+500
06	WATERWORKS- HARRIS ROAD	STA. 100+500 TO 100+750
07	WATERWORKS- HARRIS ROAD	STA. 100+750 TO 100+980.261
08	WATERWORKS- ADVENT ROAD	188 ST. TO STA. 0+110
09	WATERWORKS- 188 STREET	ADVENT RD. TO STA. 100+230
10	WATERWORKS- 188 STREET	STA. 100+230 TO ADVENT RD.
11	WATERWORKS- 119B AVENUE	188A ST. TO 190 ST.
12	WATERWORKS- 189B STREET	119B AVE. TO STA. 1+260
13	WATERWORKS- 190 ST. & 120B AVE.	188A ST. TO 190 ST.



ISSUED FOR TENDER



c:\ADSK\ACDdocs\ISL\34162_pit_2025_capital_works_utilities\project_files\02_cadd\20_drawing\202_Production\34162_COVER_SH_UTILITIES.dwg

GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH:
 - THE MASTER MUNICIPAL CONSTRUCTION DOCUMENT AND STANDARD DETAIL DRAWINGS (MMCD 2019), LATEST EDITION (PLATINUM EDITION) AND CITY OF PITT MEADOWS SUBDIVISION AND DEVELOPMENT BYLAW UNLESS OTHERWISE NOTED;
 - APPLICABLE CONTRACT DOCUMENTS AND ALL SPECIFICATIONS REFERENCED THEREIN;
 - MINISTRY OF ENVIRONMENT AND/OR FEDERAL DEPARTMENT OF FISHERIES AND OCEANS;
 - MINISTRY OF TRANSPORTATION "BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS", LATEST EDITION; AND
 - WORKSAFEBC, LATEST EDITION.

THE CONTRACTOR SHALL MAINTAIN ON SITE COPIES OF THE ABOVE DOCUMENTS AND SHALL ENSURE THAT ALL SUB CONTRACTORS ARE THOROUGHLY FAMILIAR WITH THE APPLICABLE SECTIONS OF THE DOCUMENTS.
- THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING ROADWAY MARKINGS, 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, STORM SEWER, AND STREET OR TRAFFIC LIGHTING 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 CONTRACT ADMINISTRATOR.
- 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 CONTRACTORS RESPONSIBILITY.
- REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR A MINIMUM 72 HOURS PRIOR TO CONSTRUCTION TO ENSURE THAT THE LINE AND GRADE OF THE PROPOSED MAIN CAN BE ADJUSTED TO SUIT FIELD CONDITIONS AS REQUIRED.
- EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN OWNERS PROPERTY UPON THEIR REQUEST.
- 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.
- SURVEY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- ALL ELEVATIONS ARE GEODETIC AND REFERENCED TO INTEGRATED SURVEY MONUMENT ELEVATIONS LOCATED ON ROAD RIGHT-OF-WAYS.
- ALL PUBLIC ROADWAYS AFFECTED BY THE WORKS SHALL BE KEPT IN A CLEAN STATE AT ALL TIMES AND FREE OF EQUIPMENT AND MATERIALS AT ALL TIMES WHEN CONSTRUCTION ACTIVITY IS NOT UNDERWAY. DUST CONTROL MEASURES SHALL ALSO BE EMPLOYED.
- 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 ENGINEER A MINIMUM OF 72 HOURS PRIOR, AND OBTAIN APPROVAL FOR THE DISRUPTION. ONCE APPROVAL IS GRANTED, THE CONTRACTOR IS TO INFORM ALL AFFECTED RESIDENTS.
- ALL GRASS AREAS TO BE REINSTATED WITH TOPSOIL AND HYDROSEEDING IN RURAL AREAS OR SODDED IN URBAN AREAS TO EXISTING OR BETTER CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR A 1 YEAR MAINTENANCE PERIOD.
- THE CONTRACTOR IS TO PROTECT AND/OR STABILIZE EXISTING POLES DURING CONSTRUCTION.

WATERMAIN NOTES:

- ALL NEW WATERMANS SHALL BE PC 350 DUCTILE IRON AND INSTALLED WITH 1.2m MINIMUM COVER UNLESS OTHERWISE NOTED. NEW 38mm SERVICE CONNECTIONS ARE TO BE POLYETHYLENE PC160 TUBING TO CSA B137.1
- NO CHANGES TO BE MADE TO PIPE, FITTINGS, OR ALIGNMENT WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.
- ALL TRENCHES TO BE SAWCUT. PERMANENT RESTORATION AS PER MMCD STANDARD DETAIL G4 AND G5.
- CONTRACTOR TO RESTORE EXISTING ROADWAY MARKINGS, LANDSCAPING, DRIVEWAYS, CURBS, SIDEWALKS TO EXISTING OR BETTER CONDITION FOLLOWING CONSTRUCTION.
- CONCRETE CURB AND GUTTER TO BE REINSTATED BETWEEN CONTROL JOINTS. CONCRETE SIDEWALK AND DRIVEWAYS TO BE REINSTATED TO NEAREST PANEL JOINT FOR ONE COMPLETE PANEL. SHOULD A WATER VALVE BE ABANDONED IN A SIDEWALK OR DRIVEWAY, REPLACEMENT OF THE SIDEWALK OR DRIVEWAY WILL BE DONE ON A PER PANEL BASIS.
- EXPANSION JOINTS SHALL NOT BE USED BETWEEN CURB AND GUTTER AND ABUTTING PARALLEL SIDEALKS. CONTRACTOR IS TO USE BOND BREAK COMPOUND UNLESS STATED OTHERWISE BY THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR IS TO EXPOSE EXISTING WATERMANS AND WATER SERVICES 100mm DIAMETER AND LARGER AT TIE-IN LOCATION AND ALL EXISTING UTILITIES BETWEEN. UTILITY DEPTHS ARE TO BE RECORDED AND FORWARDED TO THE CONTRACT ADMINISTRATOR FOR REVIEW.
- ASSURANCE OF PROTECTION OF THE WATERMAIN AS PER FRASER HEALTH AUTHORITY, NOVEMBER 15, 2018:

PARALLEL LINES: WATERMANS SHOULD BE LAID AT LEAST 3m HORIZONTALLY FROM ANY SANITARY OR STORM SEWER. WHERE THIS HORIZONTAL SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATERMAIN SHOULD BE AT LEAST 45cm ABOVE THE TOP OF THE SEWER AND SUFFICIENTLY TO ONE SIDE OF THE SEWER TO ALLOW FOR SEWER REPAIRS WITHOUT DISTURBING THE WATERMAIN. IF THIS VERTICAL SEPARATION IS NOT POSSIBLE, THE SEWER SHOULD BE OF THE SAME SERVICE CAPABILITY AS THE WATERMAIN, WITH PRESSURE CLASS JOINTS DESIGNED TO REMAIN WATERTIGHT IF THE GROUNDWATER TABLE PERIODICALLY RISES ABOVE THE SEWER, AND ARE PRESSURE TESTED BEFORE BACKFILLING. OTHER PRECAUTIONS, SUCH AS A WATERMAIN WITH IMPROVED JOINTS AND HIGHER STRENGTH MAY BE NEEDED.

CROSSINGS: WHERE A WATERMAIN CROSSES A SANITARY OR STORM SEWER, THE LINES SHOULD BE LAID WITH THE WATERMAIN CROSSING OVER THE SEWER AND WITH THE MIDDLE OF PIPE LENGTHS LOCATED AT THE CROSSING POINT, TO MAXIMIZE THE SEPARATION BETWEEN JOINTS. WHERE A MINIMUM 3m JOINT SEPARATION AND/OR A MINIMUM 45cm CLEAR VERTICAL SEPARATION IS NOT POSSIBLE AT THE CROSSING, PRECAUTIONS TO IMPROVE WATER TIGHTNESS OF THE SEWER JOINTS AND STRUCTURAL IMPROVEMENTS SUCH AS HIGHER STRENGTH WATERMAIN AND/OR SEWER AT THE CROSSING AREA MAY BE NEEDED. SLEEVING, PIPE BRIDGING OR OTHER SUITABLE MEASURES MAY BE CONSIDERED. ALL JOINTS WITHIN 3m OF THE CROSSING SHOULD BE:

 - WRAPPED WITH HEAT SHRINK PLASTIC OR
 - PACKED WITH INERT PETROLATUM COMPOUND AND WRAPPED IN TAPE IN ACCORDANCE WITH ANSII/AWWA STANDARDS C209 AND C217-90.
- FOR SERVICE CONNECTIONS, WHEREVER POSSIBLE, THE ABOVE CONSTRUCTION PRACTICES SHOULD ALSO BE APPLIED.
- LOCATION OF WATER SERVICE CONNECTIONS HAVE BEEN DERIVED FROM CITY OF PITT MEADOWS SERVICE RECORDS AND ARE FOR GUIDANCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL WATER SERVICES IN THE FIELD DURING CONSTRUCTION. SERVICES WITH NO SIZE SHOWN IN TABLES HAVE NO RECORD OF SERVICE DIAMETER.
- THE CONTRACTOR IS TO EXTEND ALL NEW WATER SERVICES TO PROPERTY LINE, COMPLETE WITH NEW CURB STOP AS REQUIRED, AT THE SAME ELEVATION AS THE EXISTING CONNECTION AT THE FOLLOWING OFFSETS. ALL SERVICE CONNECTIONS TO BE AS PER MMCD STANDARD DETAIL W2b.
 - 19-50mm - 300mm O/S.
 - 100-300mm - 500 mm O/S.
- SERVICES IN URBAN AREAS TO BE INSTALLED VIA TRENCHLESS METHODS TO MINIMIZE IMPACT TO EXISTING INFRASTRUCTURE AND LIMIT OPEN-CUT TRENCHING. NO PAYMENT WILL BE MADE UNLESS FIRST APPROVED BY THE CONTRACT ADMINISTRATOR.
- FOR ALL WATER SERVICES, SUITABLE NATIVE BACK FILL MAY BE USED IN THE BOULEVARD AREAS (START 0.5m BEHIND BACK OF CURB) AT THE CONTRACT ADMINISTRATOR'S APPROVAL
- CONTRACTOR TO CAP EXISTING WATERMANS THAT ARE TO BE ABANDONED (TYP.) AS PER DETAIL 4/5, DWG 02.
- THRUST BLOCKS TO BE PROVIDED AT ALL TIE-IN LOCATIONS AND CHANGE IN DIRECTIONS. ALL JOINTS ARE TO BE MECHANICALLY RESTRAINED.
- MAXIMUM JOINT DEFLECTION SHOULD NOT EXCEED ONE-HALF OF THE MANUFACTURER'S RECOMMENDED SPECIFICATION.
- ALL VERTICAL BENDS TO BE MINIMUM 2-LUG AND TIE-RODDED TOGETHER AND USE FIELD LOK 350 GASKETS FOR 2 PIPE LENGTHS BACK OF FITTING.
- FIGURED DIMENSION SHALL GOVERN OVER SCALED DIMENSIONS.
- LOT DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. REFER TO BCL'S REGISTERED LEGAL PLAN FOR ACTUAL LOT DIMENSIONS. THE CONTRACTOR SHALL CONFIRM LOCATIONS OF LOT LINES PRIOR TO INSTALLATION OF SERVICE CONNECTIONS.
- ALL SERVICE CONNECTIONS ARE TO HAVE STAINLESS STEEL INSERTS, AND SHALL HAVE STAINLESS STEEL SADDLES INSTALLED AT THE CONNECTION TO THE MAINLINE FOR ALL PIPE DIAMETERS.
- EVERY EFFORT SHOULD BE MADE FOR A MINIMUM DISTANCE OF 1.0m BETWEEN HYDRANT AND HYDRANT VALVE FOR MAINTENANCE PURPOSES. IF NOT POSSIBLE, A VALVE EXTENSION IS REQUIRED
- ALL TIE-RODS, NUTS AND WASHERS ARE TO BE STAINLESS STEEL.
- ALL NEW VALVES ARE TO BE INSTALLED AS PER DETAIL 2/5, DWG 02
- CONTRACTOR TO ABANDON ALL EXISTING VALVES FOLLOWING COMMISSIONING OF NEW MAIN (TYP.) VALVE BOX RISERS AND CASTINGS TO BE REMOVED AND DISPOSED OFFSITE BY CONTRACTOR. SEE DETAIL 4/5, DWG 02
- ALL NEW HYDRANTS TO BE TYPE TC - C71P, PAINTED RED AND WHITE WITH MARINE ENAMEL c/w STORZ CONNECTION ON ONE PORT.
- FOLLOWING COMMISSIONING OF NEW HYDRANTS, CONTRACTOR TO REMOVE EXISTING HYDRANTS. DECOMMISSIONED HYDRANTS ARE TO BE TAKEN TO THE CITY'S WORKS YARD.

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 FROM THE ENGINEERING DEPARTMENT.
- 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 WORK.
- THE CONTRACTOR SHALL ARRANGE FOR, AND COORDINATE THE WORKS DONE BY:
 - FRANCHISE TRANSPORTATION SERVICES; AND
 - FRANCHISE UTILITIES.
- THE CONTRACTOR SHALL ARRANGE FOR, AND COORDINATE WITH ISL FOR THE WORKS DONE BY THE CITY OF PITT MEADOWS.
- THE CONTRACTOR SHALL MAKE CONTACT WITH 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 CONTRACTOR 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.
- APPROVALS FOR REQUIRED TREE CUTTING OR TRIMMING NOT INDICATED IN CONTRACT DRAWINGS SHALL BE OBTAINED BY THE CONTRACTOR FROM THE CITY OF PITT MEADOWS PRIOR TO WORK BEING PERFORMED.
- CONTRACTOR TO OBTAIN APPROVED LANE CLOSURE REQUEST FORM FOR ALL WORKS. APPROVED REQUESTS ARE CIRCULATED TO ALL EMERGENCY SERVICES.
- CONTRACTOR TO SUBMIT A TRAFFIC MANAGEMENT PLAN WITH LANE CLOSURE REQUEST FOR ALL PROJECT SITES.
- ALL TRAFFIC CONTROL TO CONFORM TO THE LATEST EDITION OF THE BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
- APPROVAL OF NOISE VARIANCE FROM THE CITY OF PITT MEADOWS IS REQUIRED FOR ANY WORK PERFORMED OUTSIDE OF THE CITY'S APPROVED WORKING HOURS. NO WORK SHALL BE UNDERTAKEN OUTSIDE OF NORMAL WORKING HOURS WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY.
- NOTICE OF CONSTRUCTION SIGNS TO BE INSTALLED AT PROJECT LIMITS MINIMUM 1 WEEK PRIOR TO CONSTRUCTION, AS PER BELOW. NOTIFY CONTRACT ADMINISTRATOR WITH CONSTRUCTION SCHEDULE AND LOCATIONS. SIGNS PROVIDED AND INSTALLED BY CONTRACTOR.
- CONTRACTOR TO PROVIDE TWO CONSTRUCTION SIGNS AT THE ACCESS AND EGRESS OF EACH PROJECT AREA: SIGNS ARE TO BE INSTALLED AS TO WARN APPROACHING TRAFFIC OF CONSTRUCTION AND ACTIVITIES.
- SURFACE MILLING INCLUDES ALL BUTT JOINTS, AND MINOR PROFILING AS SHOWN ON THE CONTRACT DRAWING AND AS DIRECTED BY THE CONTRACT ADMINISTRATOR. ALL BUTT JOINTS TO BE SURFACE MILLED TO 0 TO 50mm OVER MIN. 5m LENGTH OR AS DIRECTED BY CONTRACT ADMINISTRATOR. BUTT JOINTS TO BE "KEYED IN".
- NO PARKING SIGNS MUST BE INSTALLED A MINIMUM OF 72 HOURS PRIOR TO SITE MOBILIZATION. SIGNS MUST INCLUDE THE DATES AND TIME, CONTRACTOR WILL NOT BE ABLE TO TOW ANY VEHICLES IF THESE REQUIREMENTS ARE NOT MET.

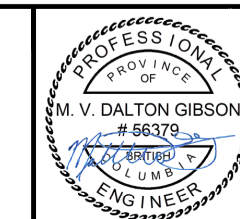
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A	ISSUED FOR TENDER	2026/03/19	LE	MG



WATER WORKS

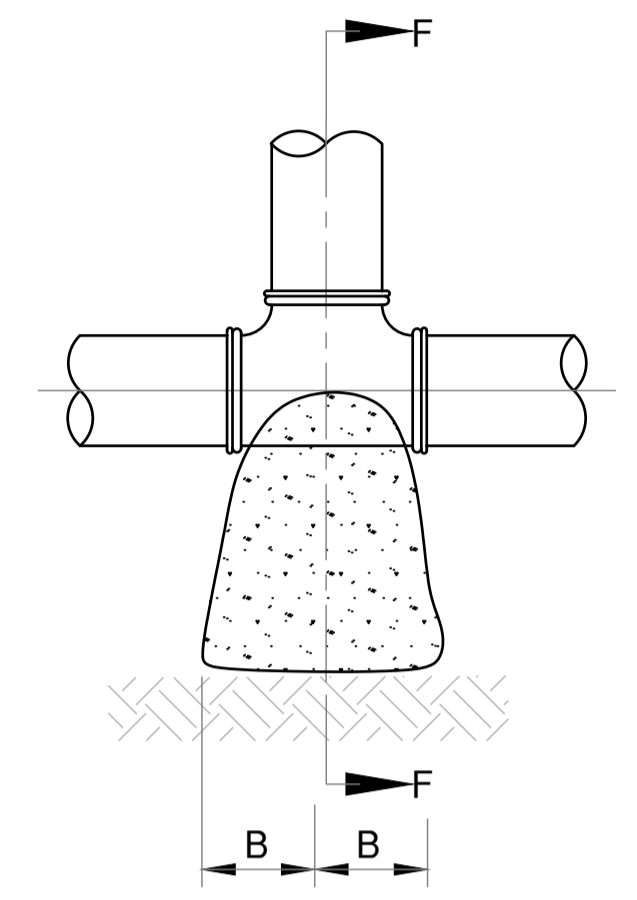
2026 CAPITAL WORKS - UTILITIES NOTES



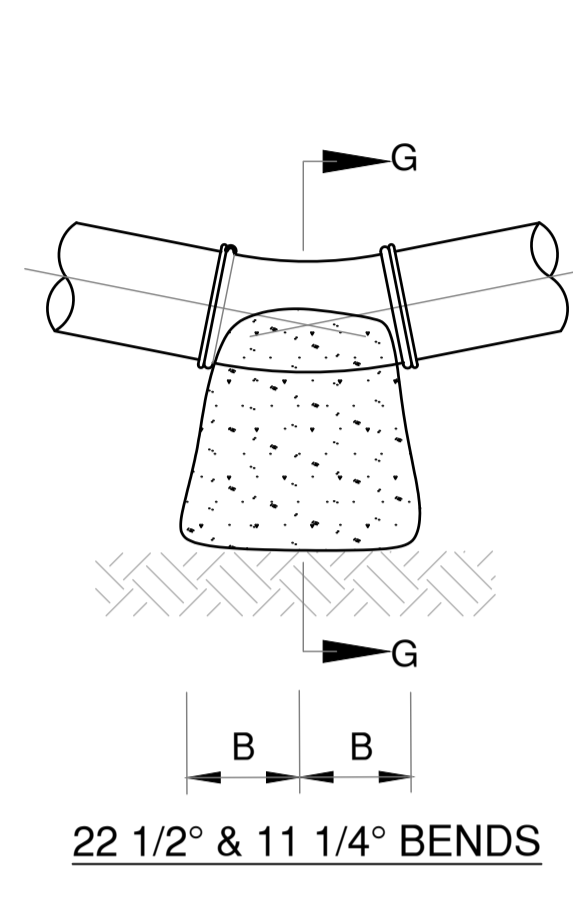
ISSUED FOR TENDER DESIGN NO.

34162

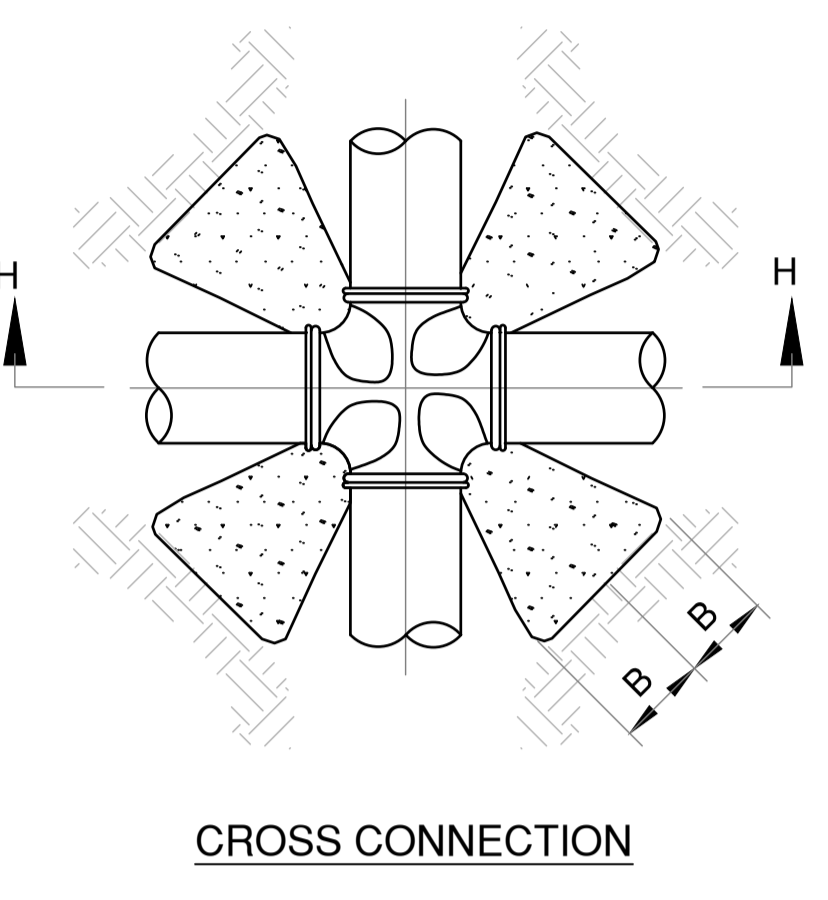
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DRAWN BY	NL	DESIGN BY	LE	01 OF 13
CHECKED BY	MG	APPROVED BY	MG	REV. A
PLOT DATE	March 18, 2026			



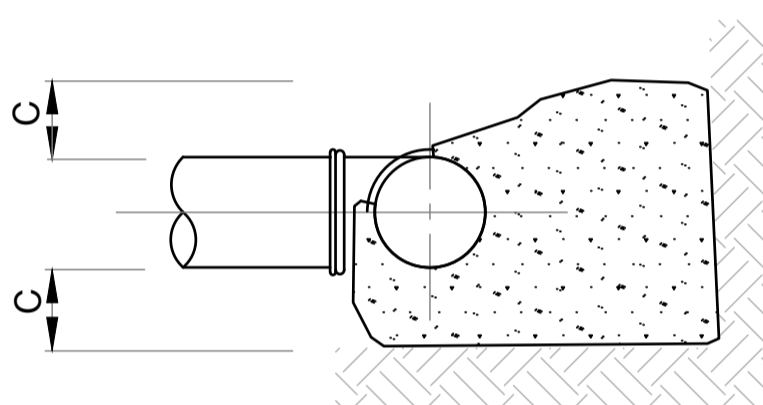
TEE & DEAD END CONNECTION



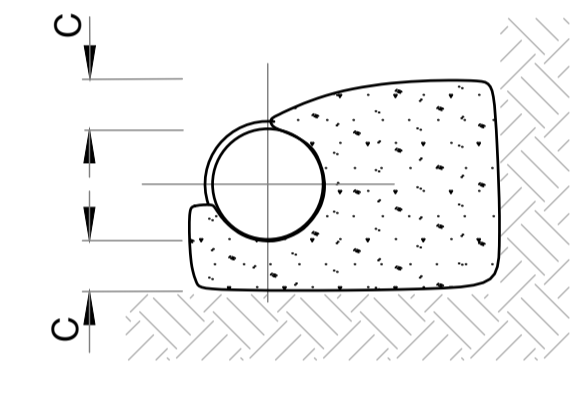
22 1/2° & 11 1/4° BENDS



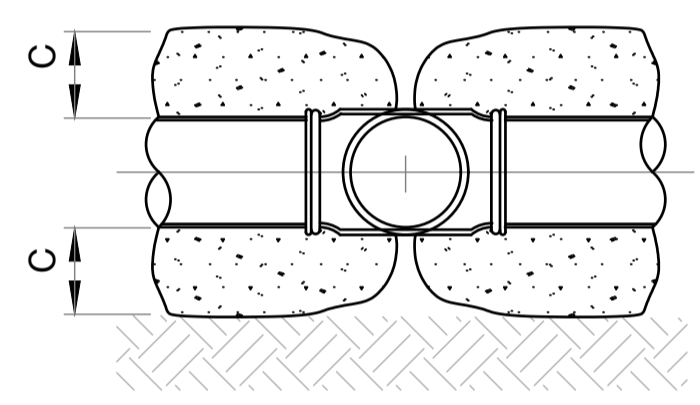
CROSS CONNECTION



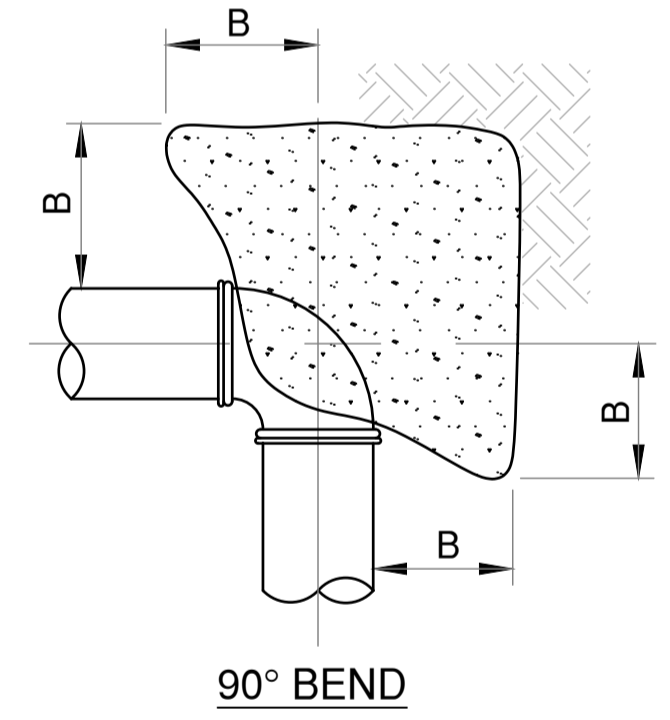
SECTION F - F



SECTION G - G



SECTION H - H



90° BEND

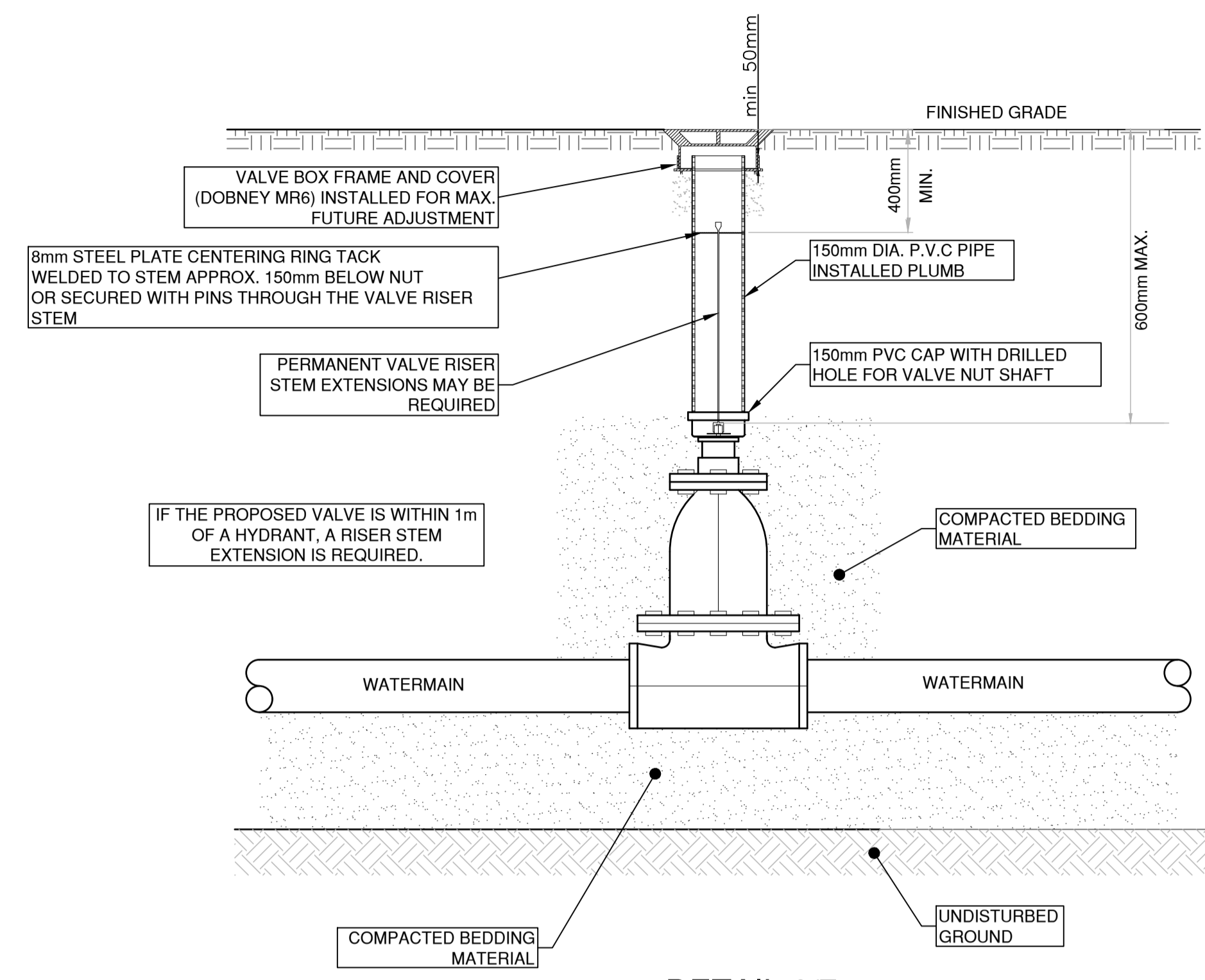
MINIMUM CONCRETE THRUST BLOCK DIMENSIONS

1035 Kpa WATER PRESSURE & 95.76 Kpa ALLOWABLE SOIL PRESURE									
FITTINGS	11 1/4° BEND	22 1/2° BEND	45° BEND	60° BEND	67 1/2° BEND	75° BEND	90° BEND	CROSS-TEE & PLUG	
RAR	0.198 A	0.390 A	0.765 A	A	1.112 A	1.218 A	1.414 A	A	
RAR = 2B x (2C + DIA.) & 2B > (2C ± DIA.)				RAR = REACTION AREA REQUIRED A = AREA CONSTANT					
DIA. =150 A=0.197	RAR	0.039	0.77	0.151	0.197	0.219	0.240	0.279	0.197
	B	100	150	220	250	250	275	310	250
	C	50 (MIN.)	50 (MIN.)	100	125	150	150	150	125
DIA. =200 A=0.350	RAR	0.069	0.137	0.268	0.350	0.389	0.426	0.495	0.350
	B	125	175	275	300	325	360	360	300
	C	75	100	150	200	200	200	250	200
DIA. =300 A=0.788	RAR	0.156	0.307	0.603	0.788	0.876	0.960	1.114	0.788
	B	200	310	430	440	440	440	500	440
	C	75	100	200	300	350	400	400	300

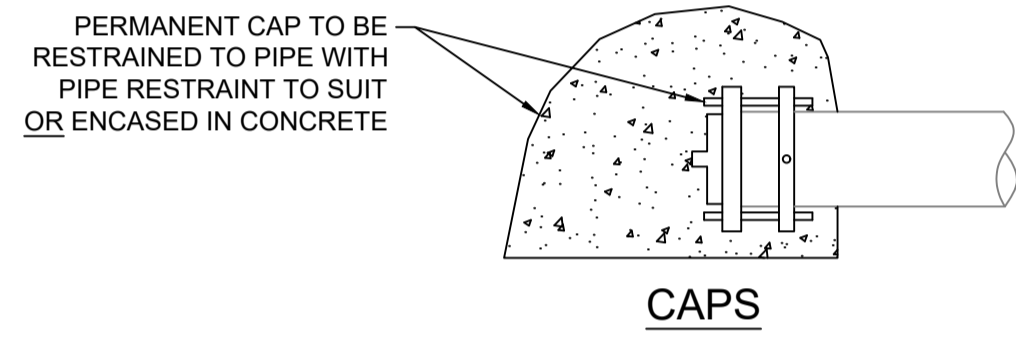
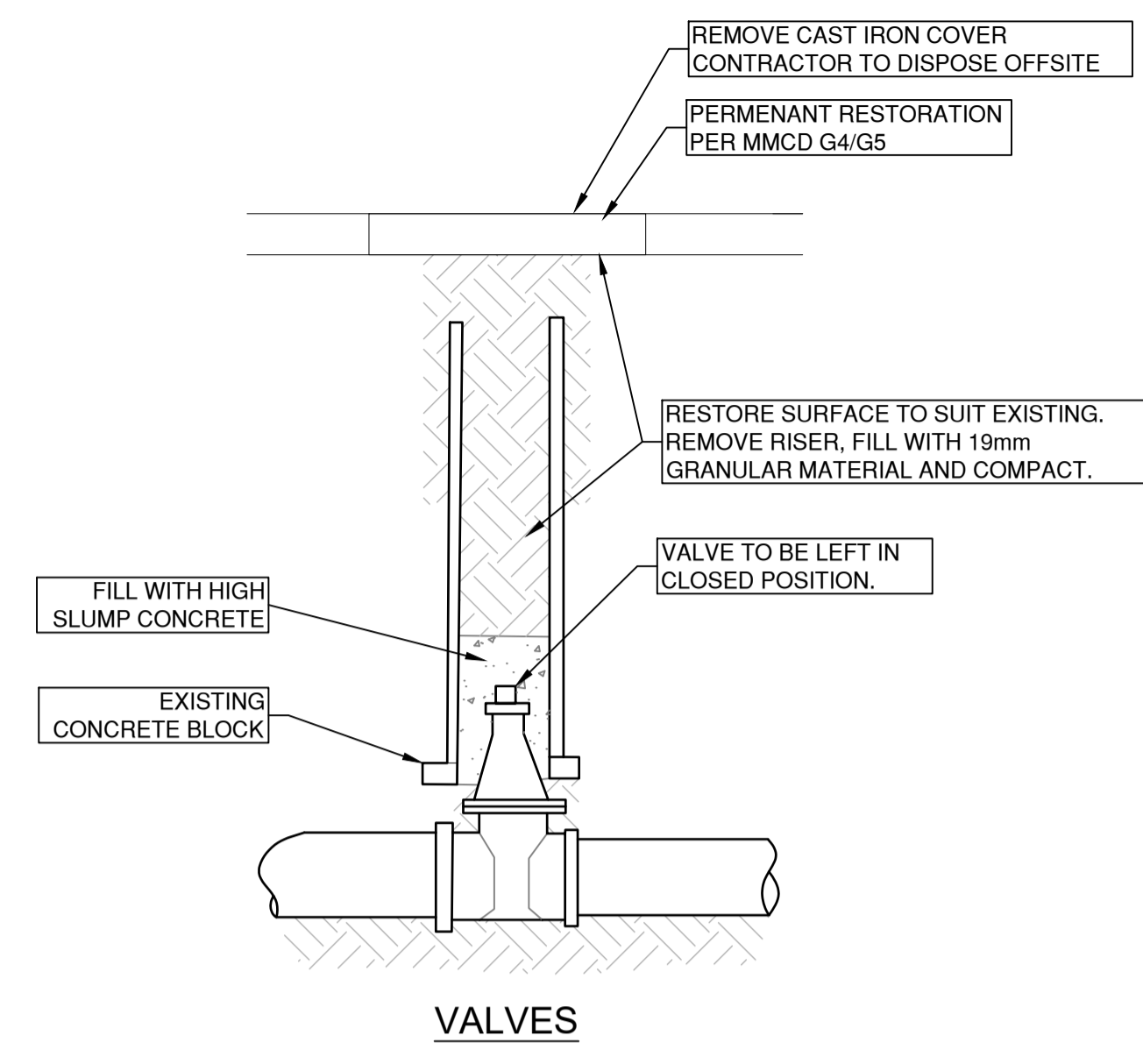
NOTE:
 - CONCRETE TO BE 25 Mpa @ 28 DAYS
 - CONCRETE TO BE TYPE 50 SULFATE RESISTANT
 - CONCRETE TO BE CLEAR OF BELLS & PIPE

NOTE:
 THRUST BLOCK DESIGNED ON
 - 100 Kpa ALLOWABLE SOIL BEARING PRESSURE.
 - 1.5 FACTOR OF SAFETY
 - 150 PSI PIPE WATER PRESSURE.

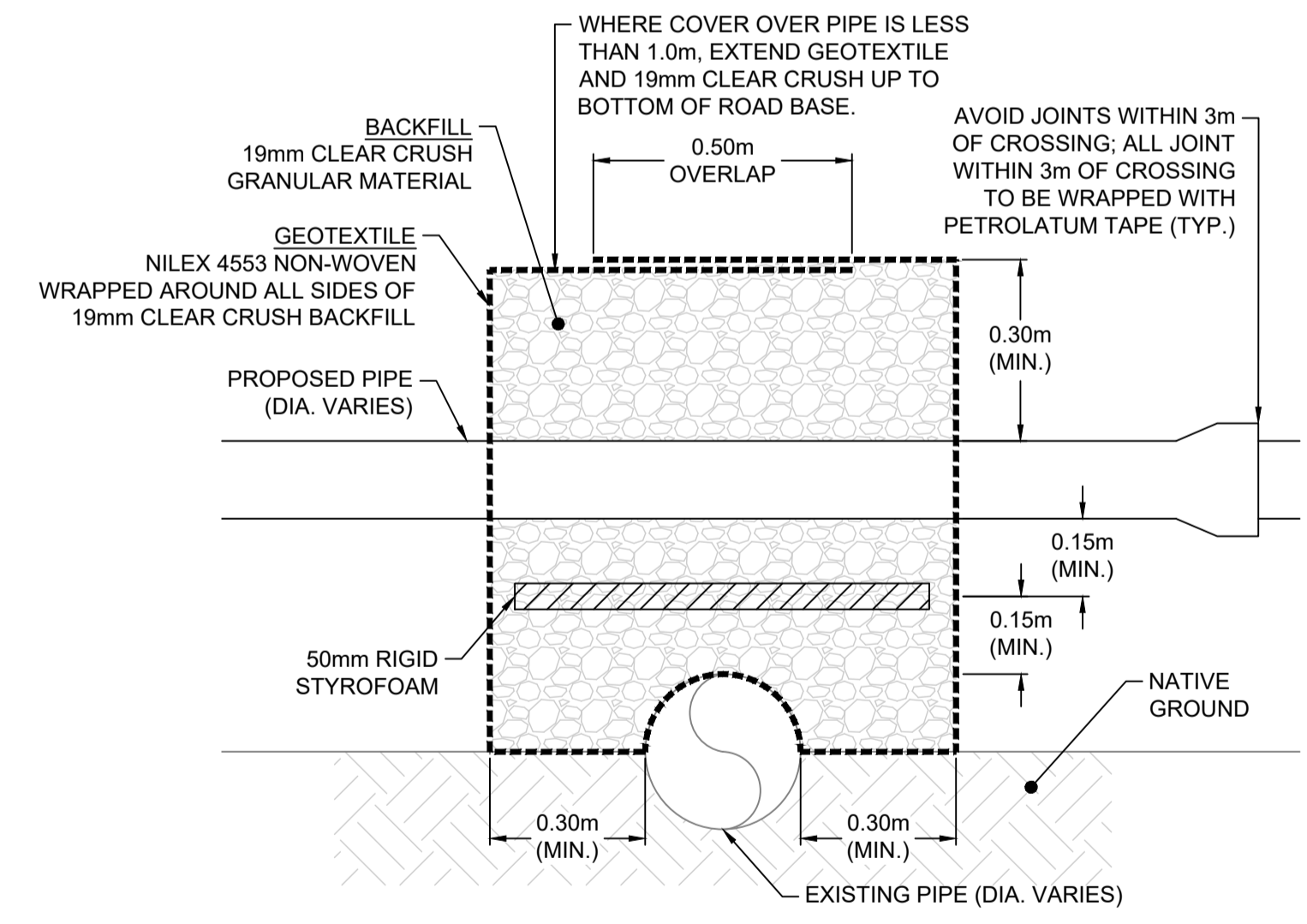
DETAIL 1/7 -
TYPICAL THRUST BLOCK ARRANGEMENTS
NTS



DETAIL 2/7 -
TYPICAL VALVE INSTALLATION WITH CAP
NTS

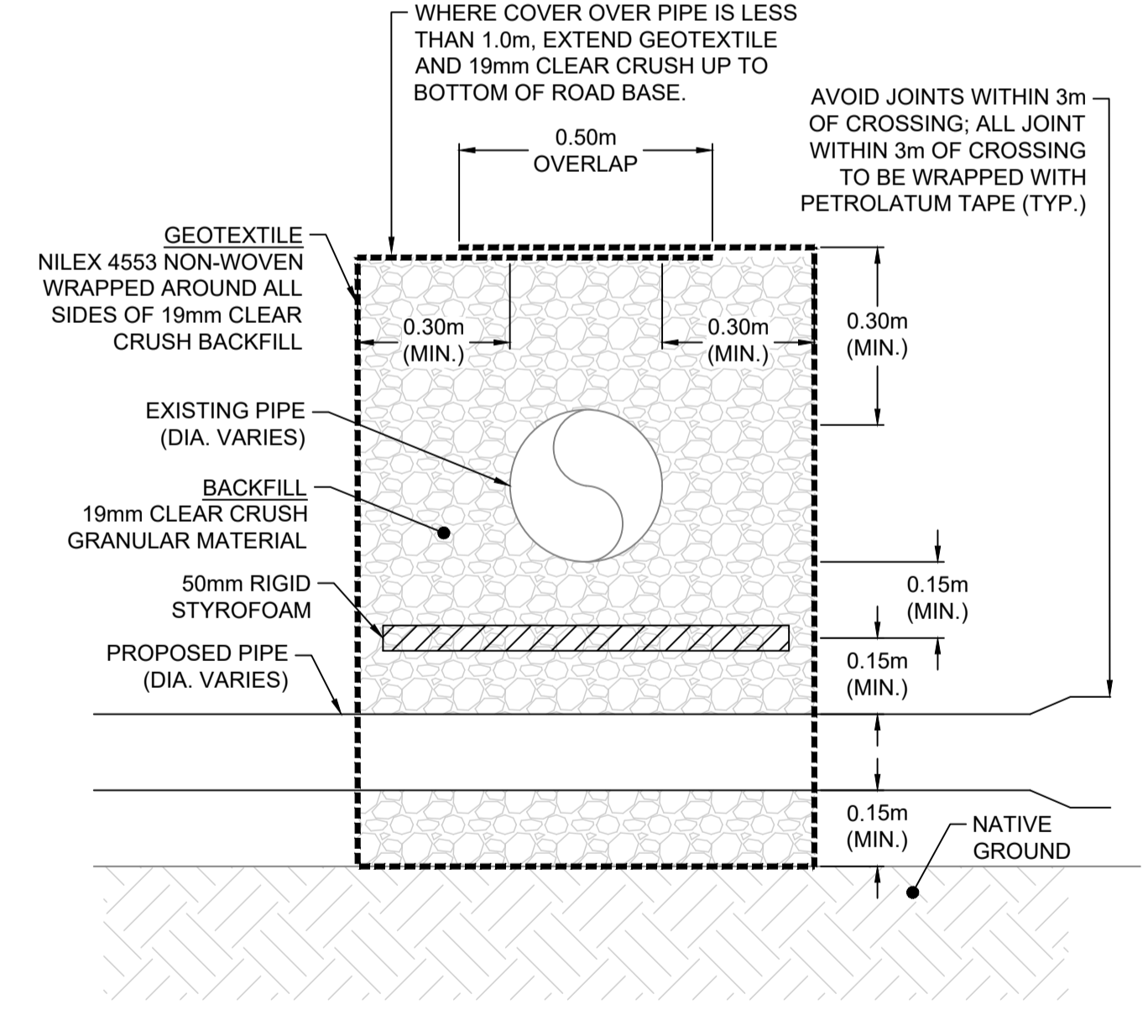


DETAIL 4/7 -
WATERMAIN ASSET ABANDONMENT
NTS



***WHERE VERTICAL GAP BETWEEN UTILITIES IS LESS THAN 300mm USE 100mm THICK RIGID STYROFOAM OR CONCRETE ENCASE EXISTING PIPE PER MMCD STANDARD DETAIL G7.

ABOVE



***WHERE VERTICAL GAP BETWEEN UTILITIES IS LESS THAN 300mm USE 100mm THICK RIGID STYROFOAM OR CONCRETE ENCASE PROPOSED PIPE PER MMCD STANDARD DETAIL G7.

BELOW

DETAIL 3/7 -
TYPICAL UTILITY CROSSING
NTS

ISSUED FOR TENDER

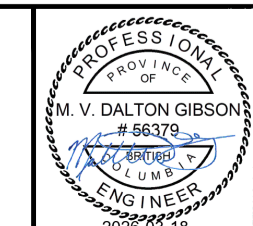
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2026/03/19	LE	MG

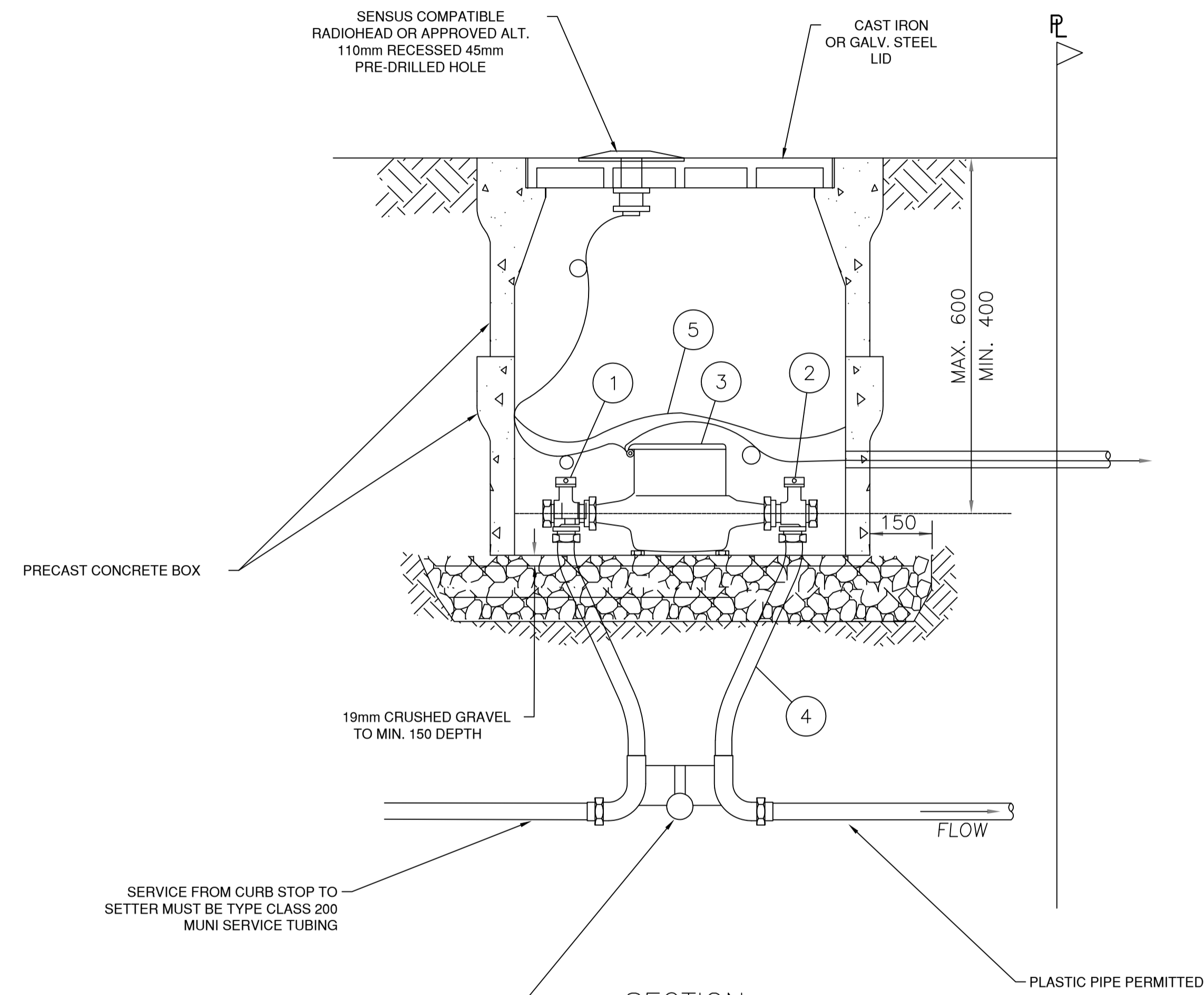


WATER WORKS

2026 CAPITAL WORKS - UTILITIES
DETAILS



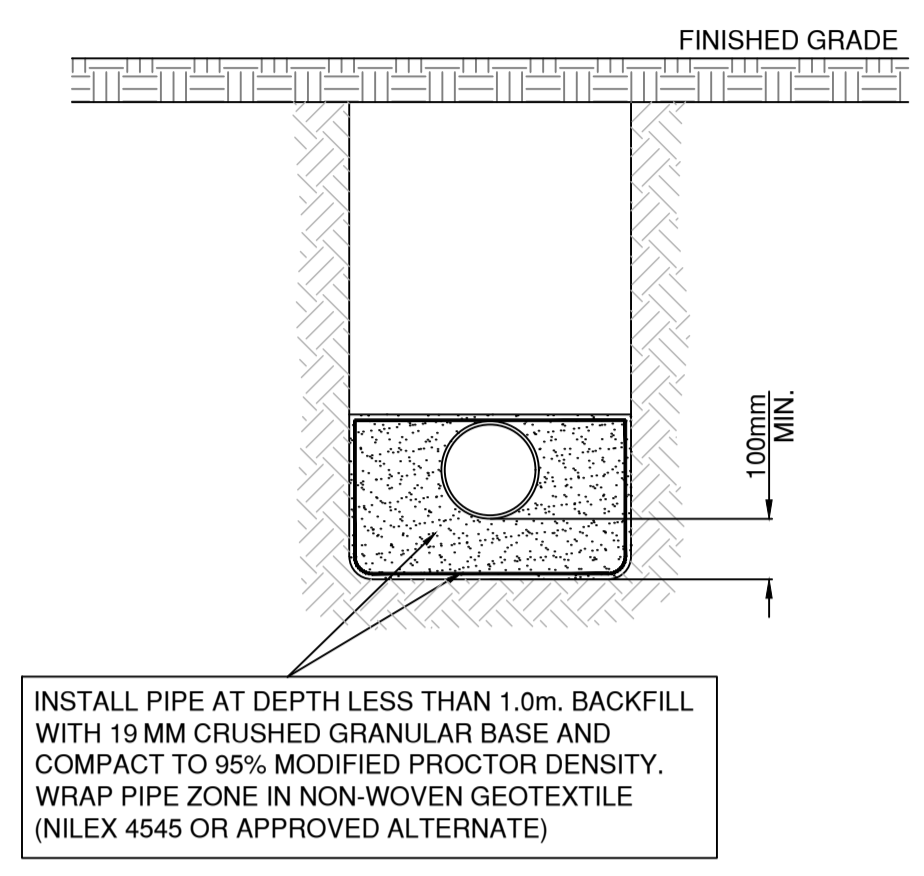
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DRAWN BY NL	DESIGN BY LE		02 OF 13
CHECKED BY MG	APPROVED BY MG		REV. A
PLOT DATE	March 18, 2026		



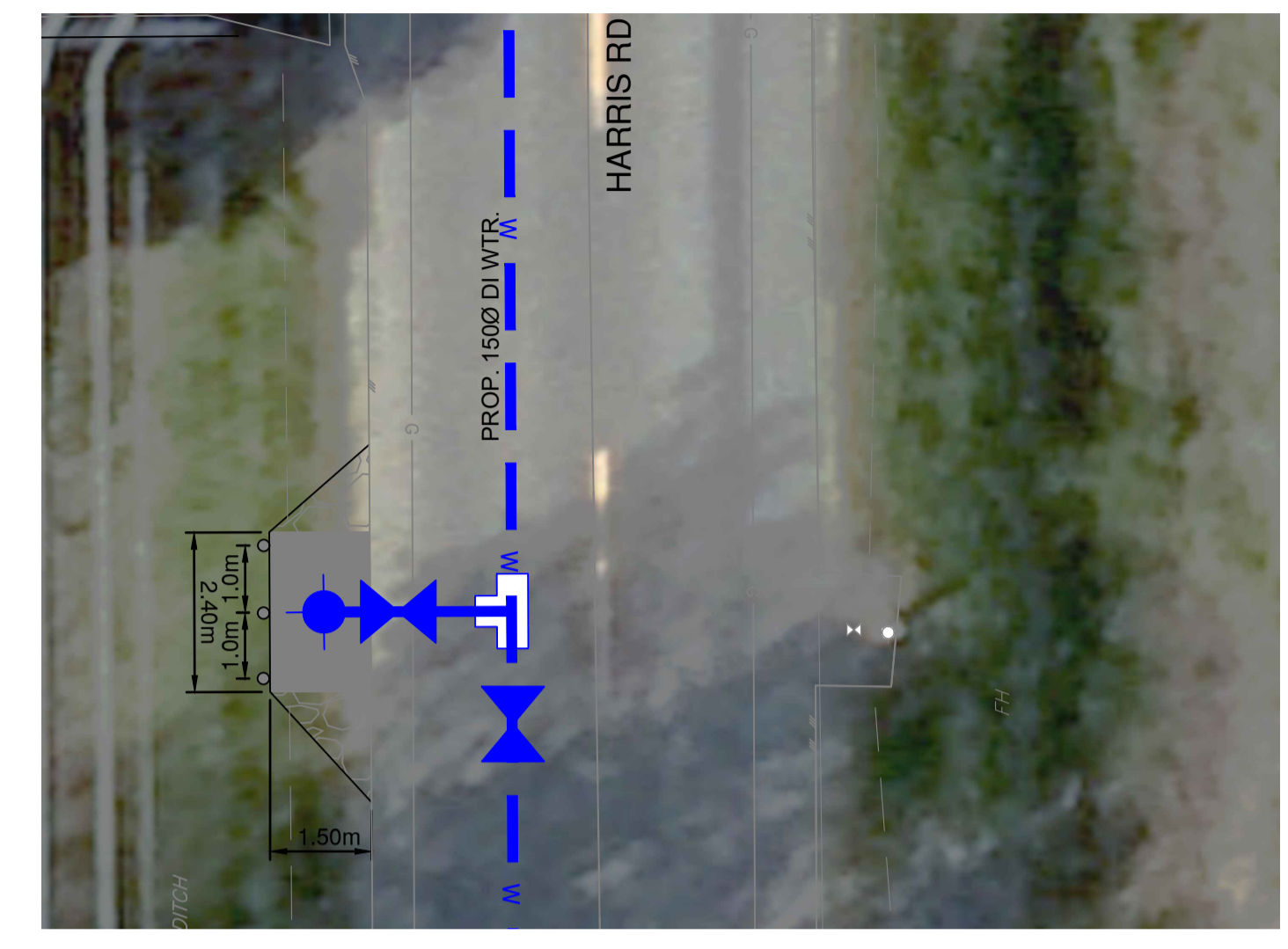
METER BOXES	
19mm	METER - BROOKS 66
25mm	METER - BROOKS 66

NO.	DESCRIPTION
1	INLET BALL VALVE (FULL PORT)
2	DUAL CHECK VALVE (IN SETTER)
3	NEPTUNE ULTRASONIC METER OR APPROVED ALT.
4	APPROVED METER SETTER
5	FOIL BUBBLE WRAP INSULATION BLANKET (CUT TO FIT)

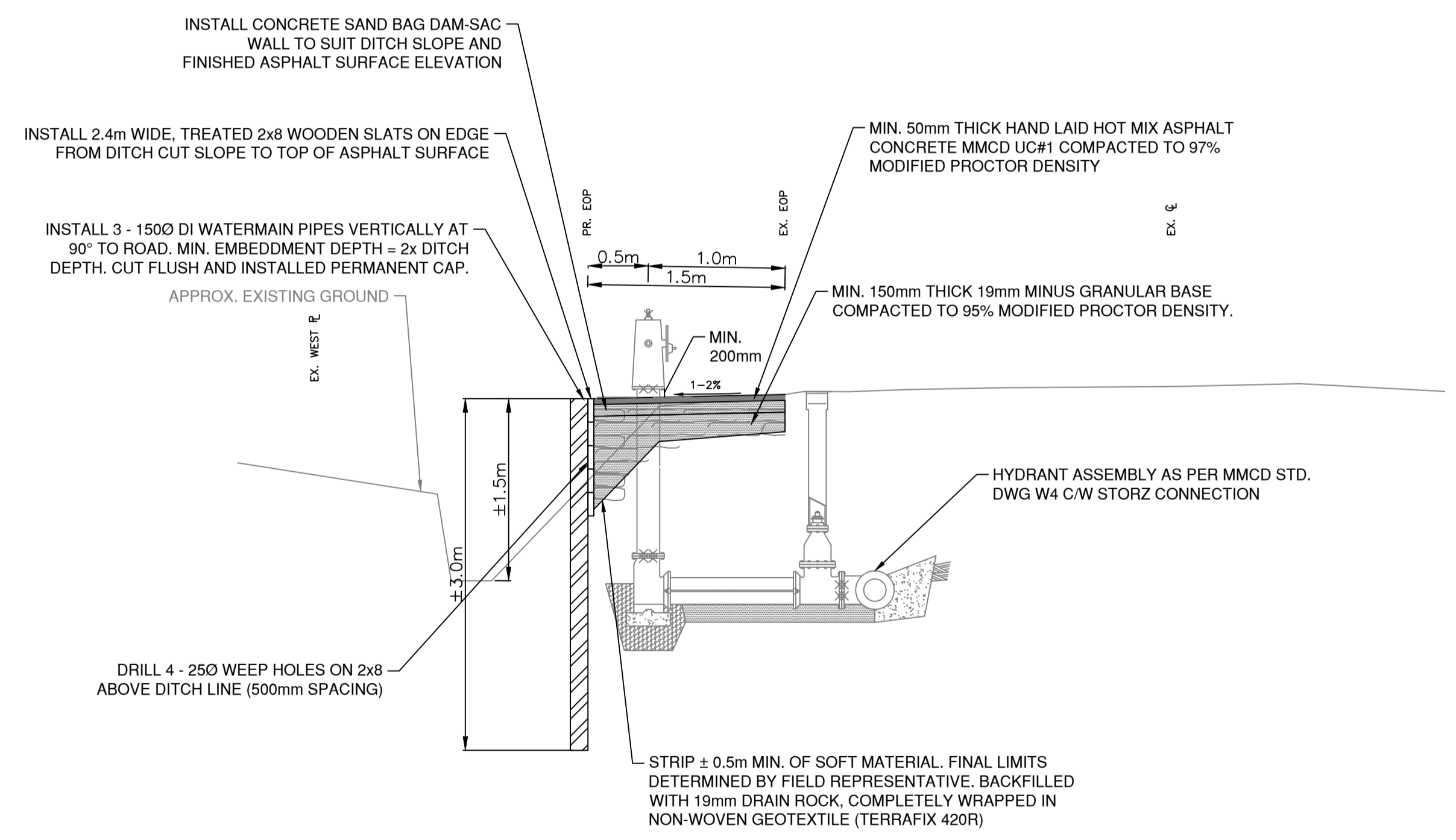
DETAIL 5/7 -
19mmØ - 25mmØ METER DETAIL
NTS



DETAIL 6/7 -
TRENCH DETAIL
NTS



DETAIL 7/7 -
TYPICAL HYDRANT SURROUND DETAIL
PLAN
1:100



DETAIL 7/7 -
TYPICAL HYDRANT SURROUND DETAIL
CROSS -SECTION
1:50

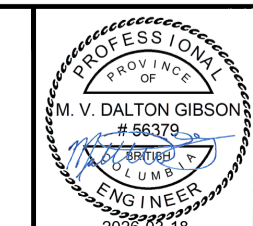
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUE FOR TENDER	2026/03/19	LE	MG



WATER WORKS

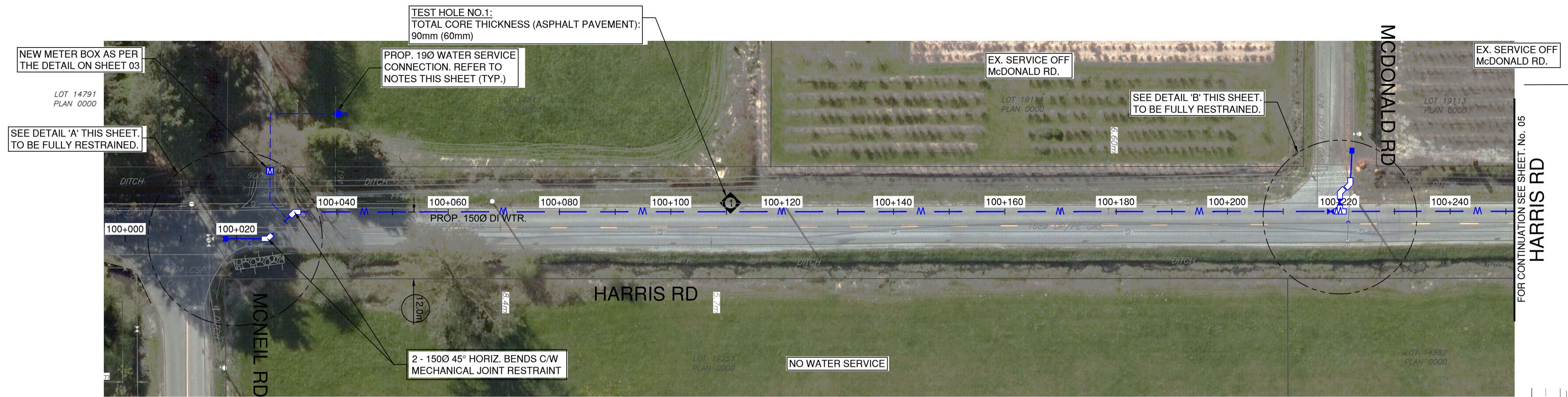
2026 CAPITAL WORKS - UTILITIES
DETAILS TWO



ISSUED FOR TENDER DESIGN NO.

SCALE	CREATION DATE	2025/05/19	DWG. NO.
DRAWN BY NL	DESIGN BY LE		03 OF 13
CHECKED BY MG	APPROVED BY MG		REV. A
PLOT DATE	March 18, 2026		

34162

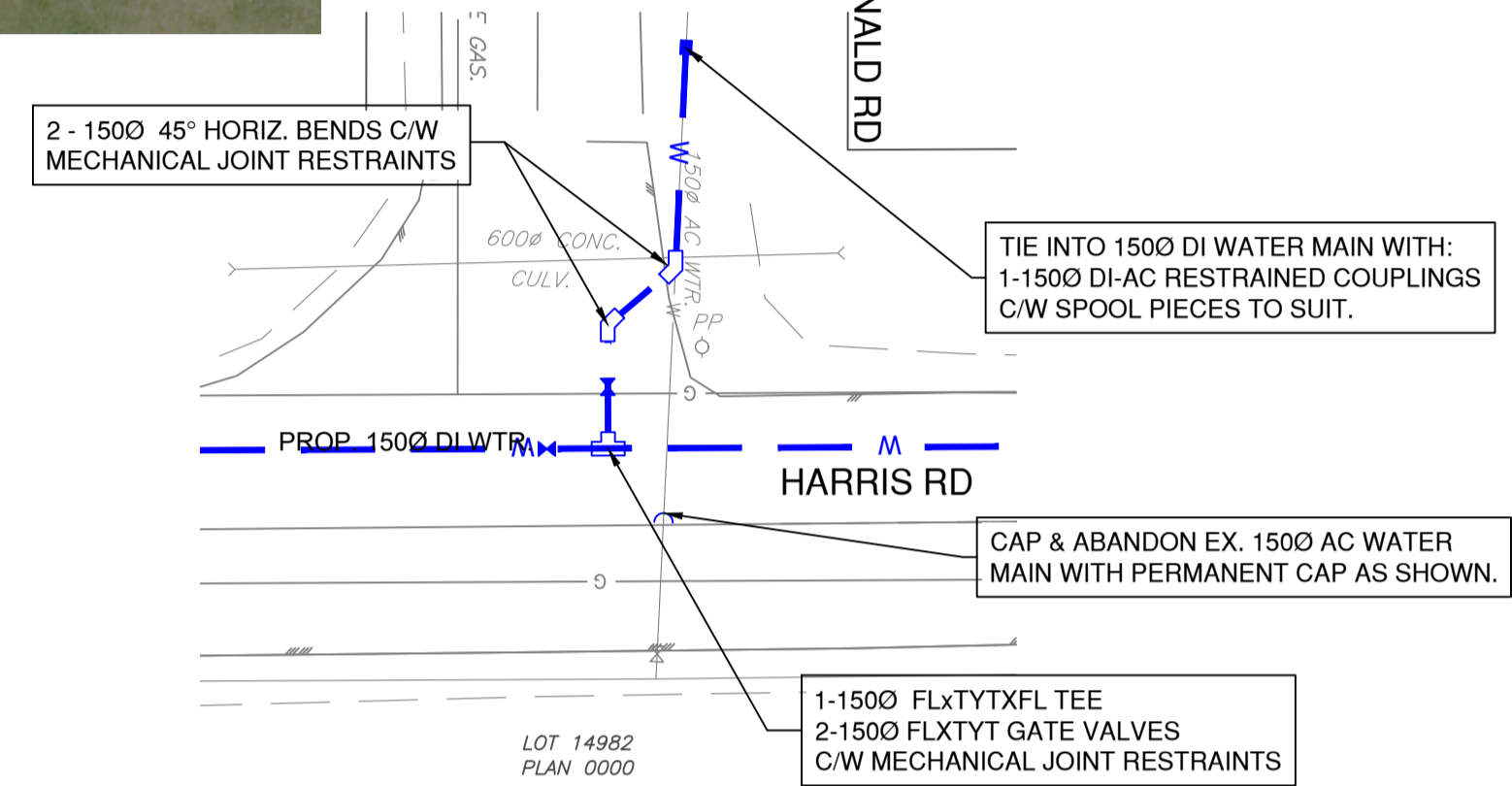


PLAN
SCALE: 1:500

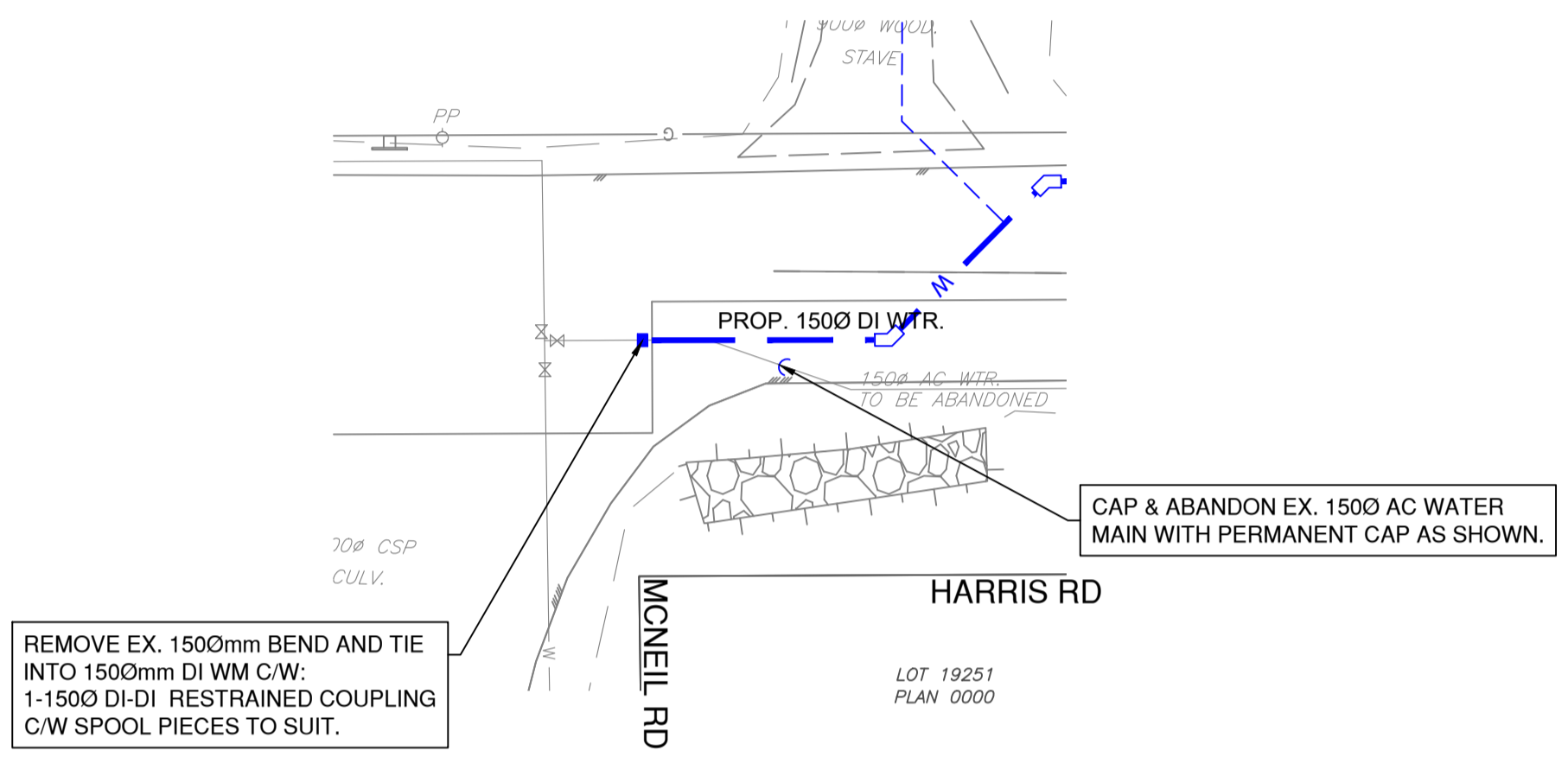
FOR WATERWORKS NOTES SEE DWG. NO. 01
FOR WATERWORKS DETAILS SEE DWG. NO. 02

- NOTES:
1. ALL SERVICES TO BE 19mm UNLESS OTHERWISE SHOWN. CONTRACTOR IS TO MATCH THE SIZE OF THE EXISTING SERVICE.
 2. CONFIRM PIPE DIAMETER AND SERVICE LOCATION PRIOR TO CONSTRUCTION.
 3. FINAL LOCATION OF PRIVATE SIDE CONNECTION TO BE CONFIRMED WITH THE CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
 4. CONTRACTOR TO COORDINATE PRIVATE PROPERTY ACCESS AS REQUIRED.
 5. AERIAL AND SURVEY DATA IS CONSIDERED APPROXIMATE. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
 6. EXISTING FENCES, VEGETATION, AND OTHER SURFACE FEATURES TO BE PROTECTED WHERE POSSIBLE. WHERE THE REMOVAL OF SURFACE FEATURES IS REQUIRED, THE CONTRACTOR SHALL REINSTATE TO EXISTING CONDITIONS OR BETTER.
 7. USE HYDROEXCAVATION WITHIN TREE PROTECTION ZONES, AS REQUIRED. CONTRACTOR TO REQUIRE CITY AND RESIDENT APPROVAL PRIOR TO THE REMOVAL OF ANY TREE.
 8. CONTRACTOR TO TRANSFER EXISTING METERS TO NEW METER BOXES AS NEEDED. EXISTING METER BOXES TO BE REMOVED AND DISPOSED OFF-SITE.

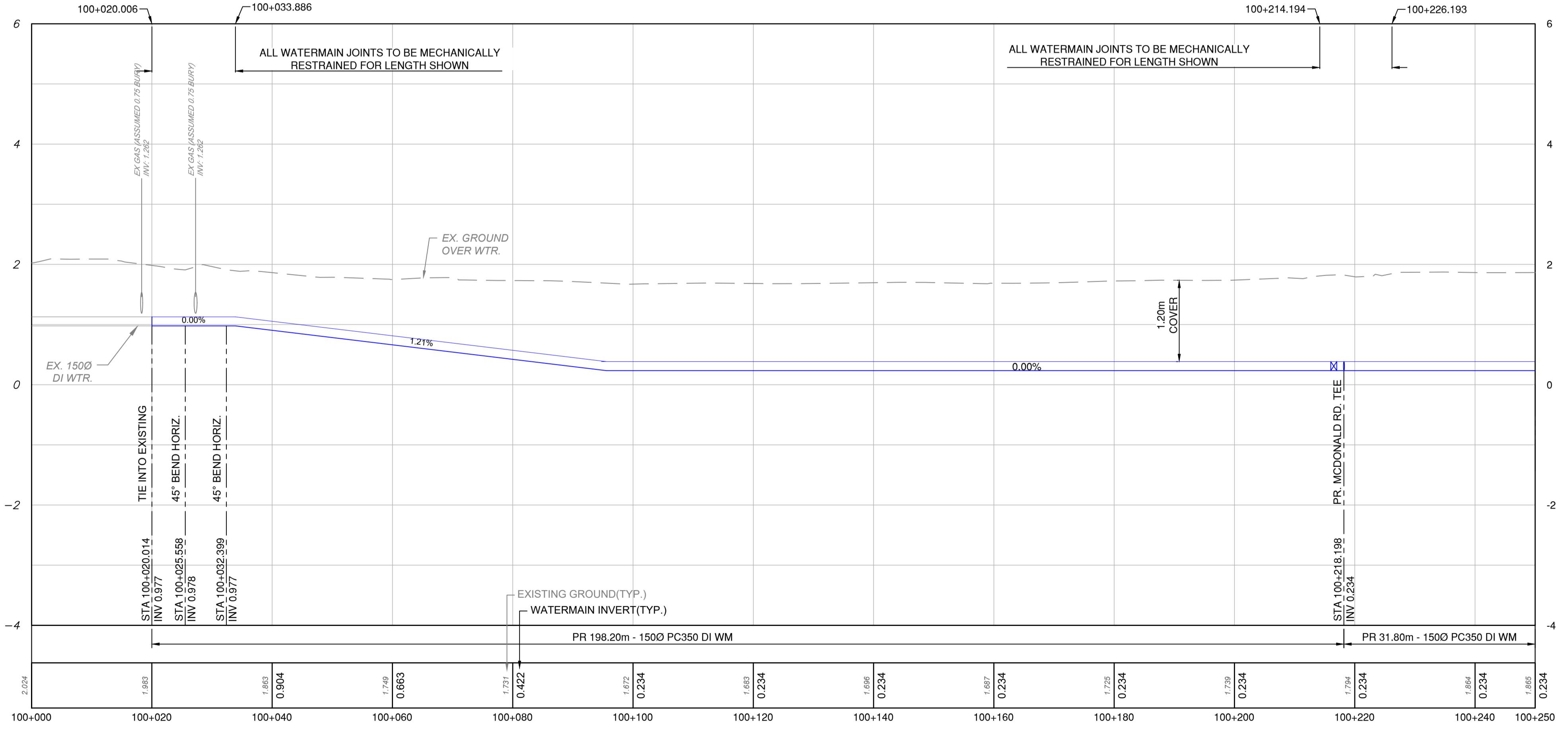
HARRIS ROAD SERVICE CONNECTIONS			
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS
14813 HARRIS RD	13m. N OF CL DRIVEWAY	19/CU/UNKNOWN	REPLACE



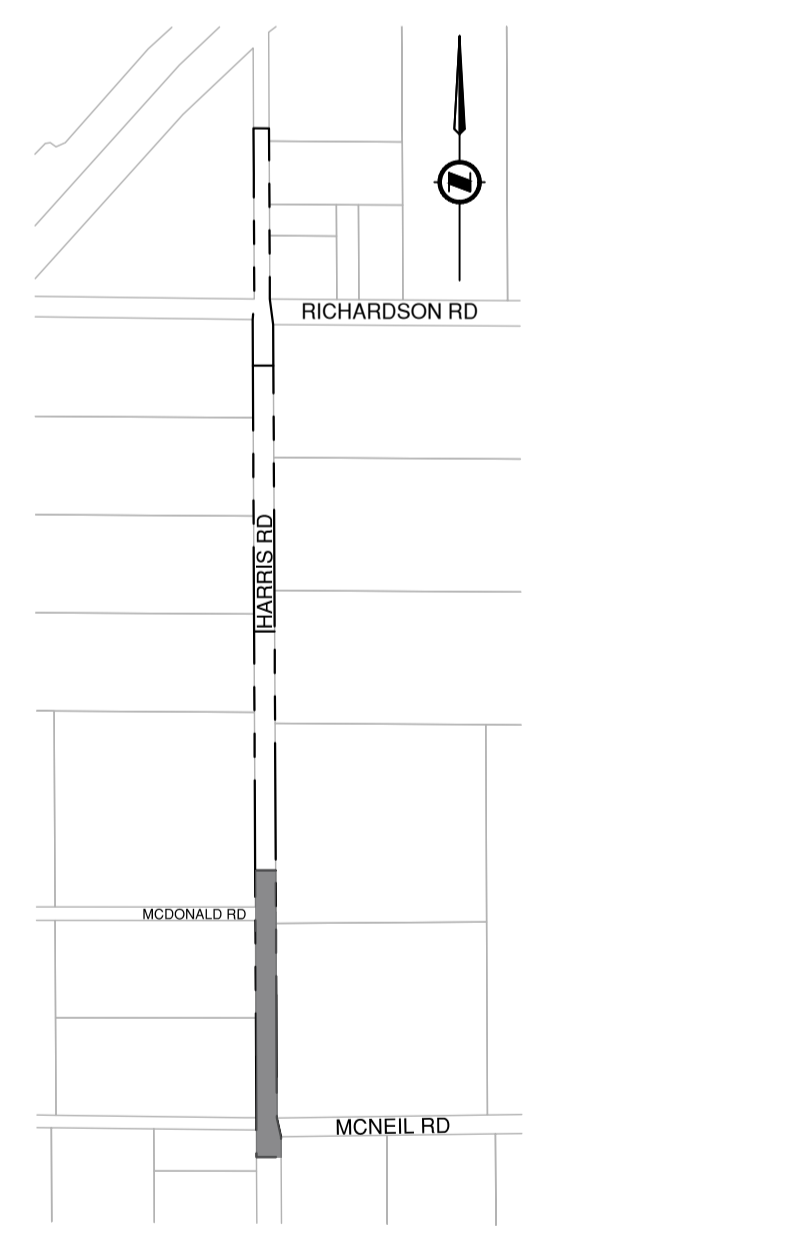
DETAIL 'B'
SCALE: 1:200



DETAIL 'A'
SCALE: 1:200



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



KEY PLAN
NTS



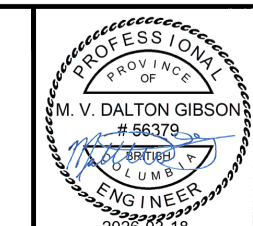
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2026/03/19	LE	MG



WATER WORKS

HARRIS ROAD
MCNEIL RD. to STA. 100+250

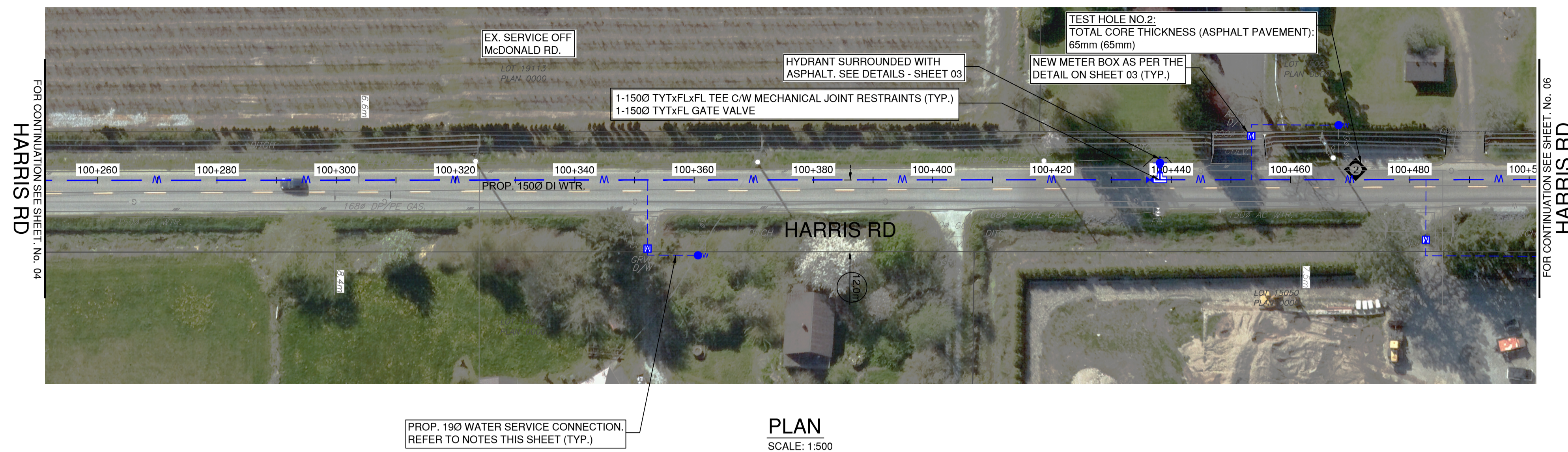


ISSUED FOR TENDER

DESIGN NO.		34162	
SCALE	1:500 HOR. 1:50 VER.	CREATION DATE	2025/05/19
DRAWN BY	NL	DESIGN BY	LE
CHECKED BY	LE	APPROVED BY	MG
PLOT DATE	March 18, 2026		

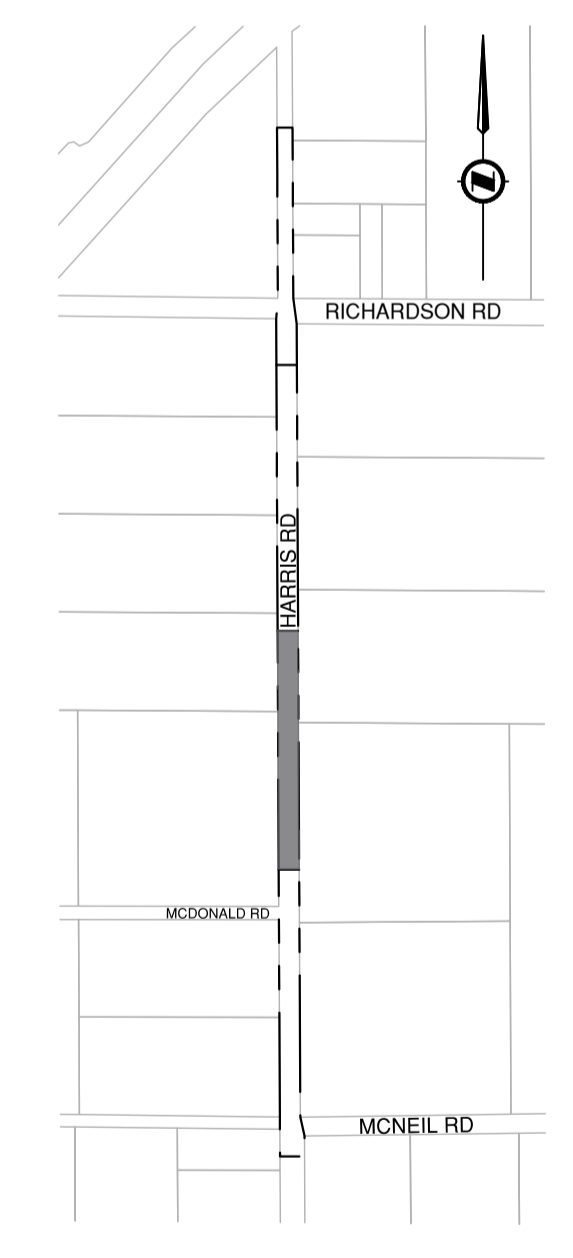
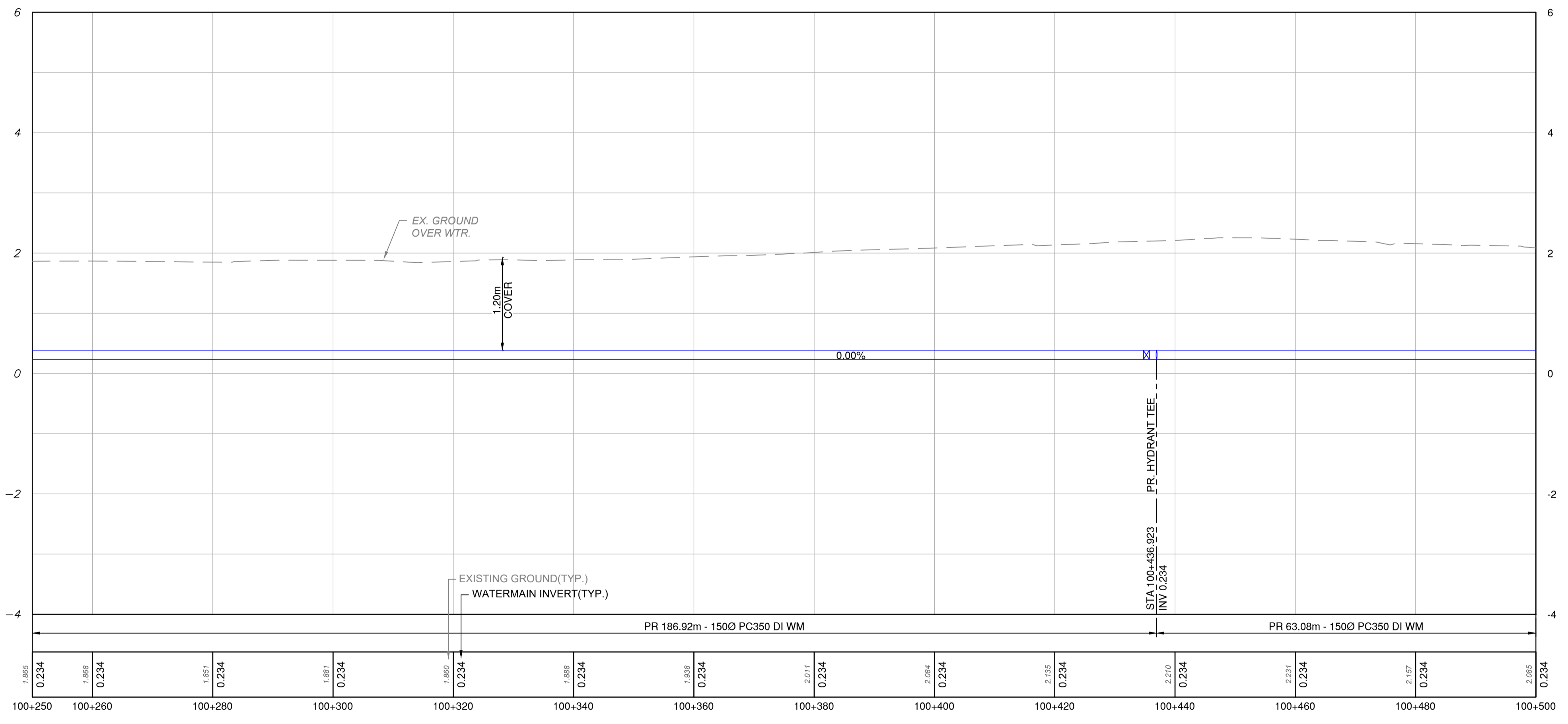
DWG. NO. 04 OF 13
REV. A

FOR WATERWORKS NOTES SEE DWG. NO. 01
 FOR WATERWORKS DETAILS SEE DWG. NO. 02

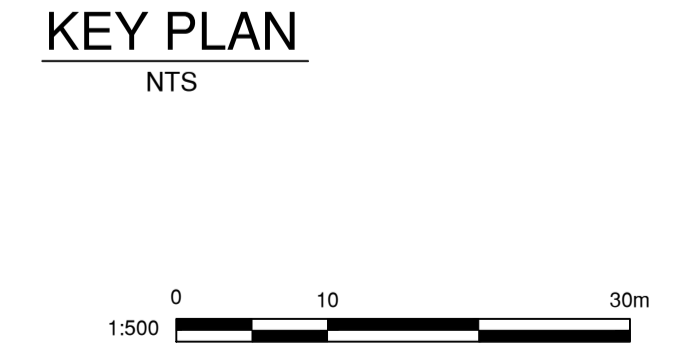


- NOTES:**
1. ALL SERVICES TO BE 19mm UNLESS OTHERWISE SHOWN. CONTRACTOR IS TO MATCH THE SIZE OF THE EXISTING SERVICE.
 2. CONFIRM PIPE DIAMETER AND SERVICE LOCATION PRIOR TO CONSTRUCTION.
 3. FINAL LOCATION OF PRIVATE SIDE CONNECTION TO BE CONFIRMED WITH THE CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
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 8. CONTRACTOR TO TRANSFER EXISTING METERS TO NEW METER BOXES AS NEEDED. EXISTING METER BOXES TO BE REMOVED AND DISPOSED OFF-SITE.

HARRIS ROAD SERVICE CONNECTIONS			
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS
14982 HARRIS RD	6" N OF N SIDE HOUSE	19/UNK/UNK	REPLACE
15023 HARRIS RD	BASED ON W-STAMP	19/UNK/UNK	REPLACE



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



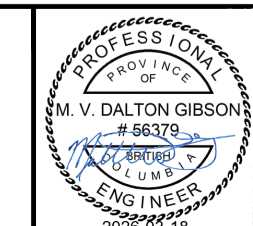
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2026/03/19	LE	MG



WATER WORKS

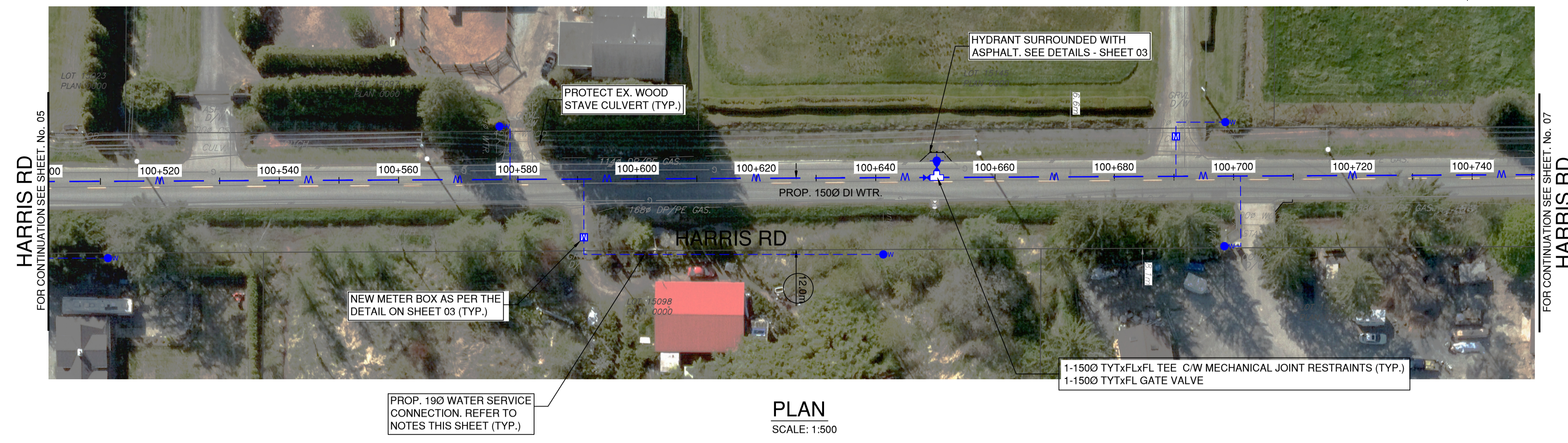
HARRIS ROAD
 STA. 100+250 to 100+500



ISSUED FOR TENDER

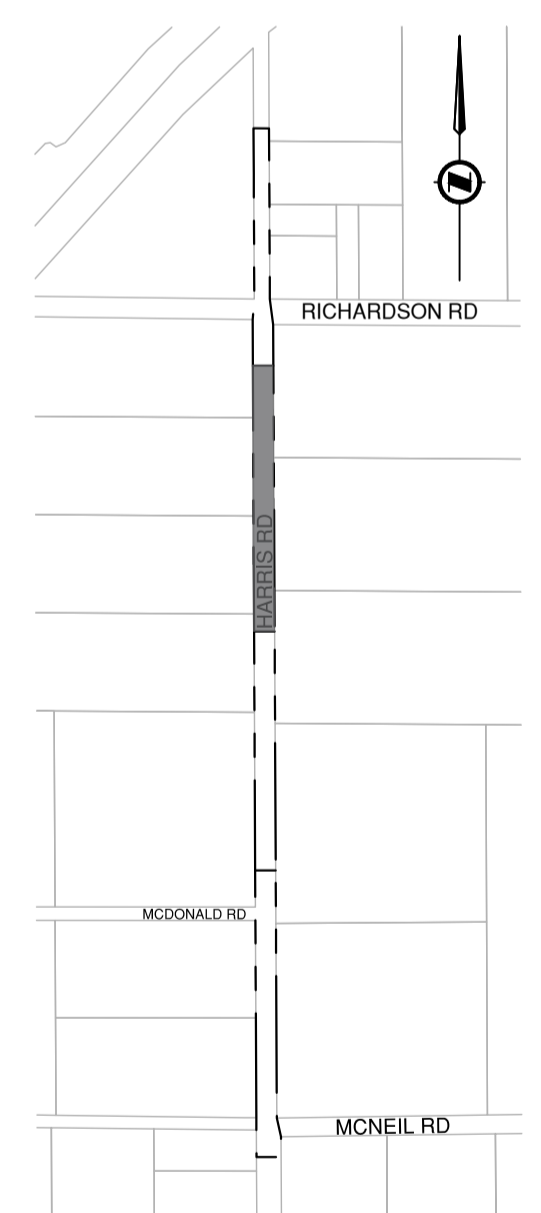
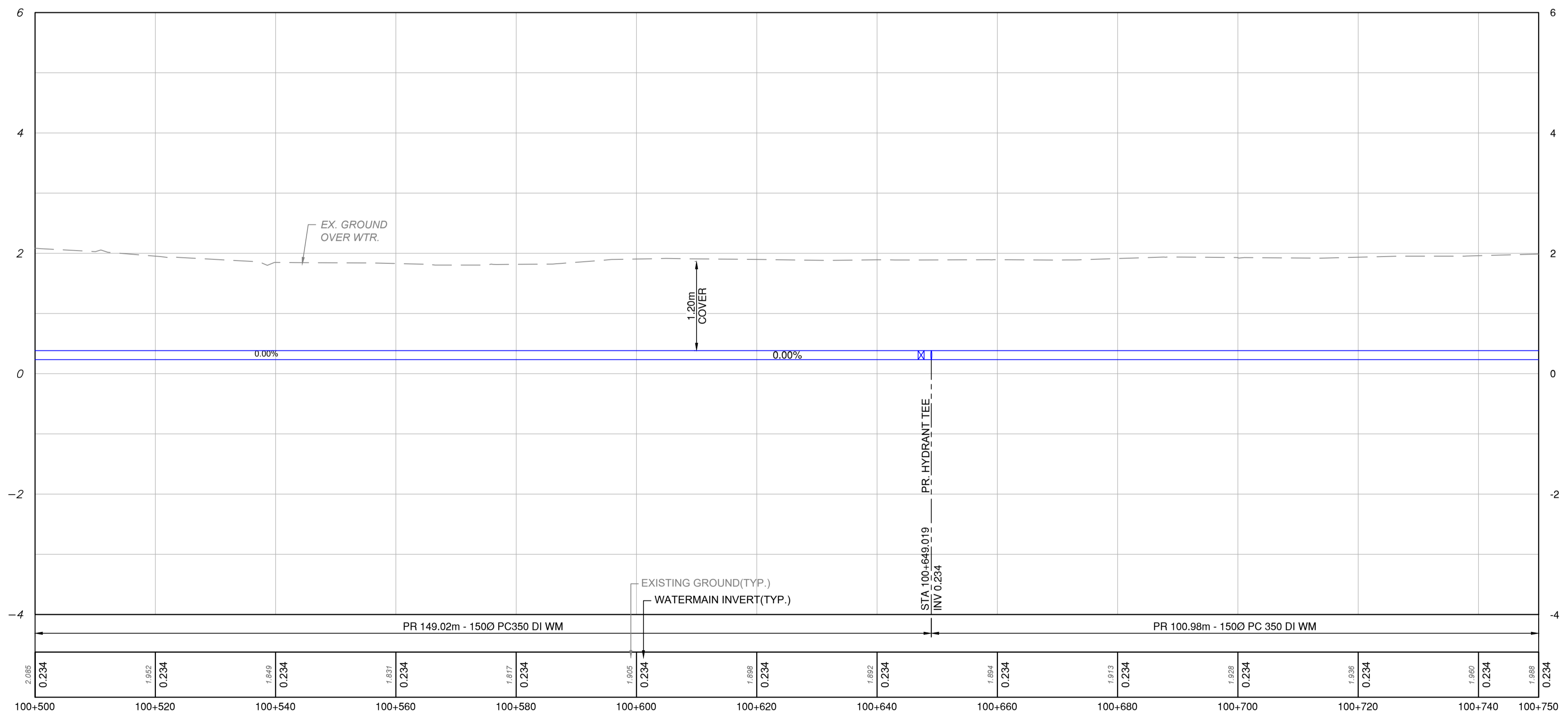
DESIGN NO. **34162**

SCALE	1:500 HOR. 1:50 VER.	CREATION DATE	2025/05/19	DWG. NO.
DRAWN BY	TL	DESIGN BY	LE	05 OF 13
CHECKED BY	LE	APPROVED BY	MG	REV. A
PLOT DATE	March 18, 2026			



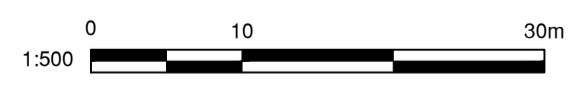
- NOTES:**
1. ALL SERVICES TO BE 150mm UNLESS OTHERWISE SHOWN. CONTRACTOR IS TO MATCH THE SIZE OF THE EXISTING SERVICE.
 2. CONFIRM PIPE DIAMETER AND SERVICE LOCATION PRIOR TO CONSTRUCTION.
 3. FINAL LOCATION OF PRIVATE SIDE CONNECTION TO BE CONFIRMED WITH THE CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
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HARRIS ROAD SERVICE CONNECTIONS				
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS	
15050 HARRIS RD	N. LINE OF HOUSE	19/UNK/UNK	REPLACE	
15097 HARRIS RD	BASED ON W-STAMP	19/UNK/UNK	REPLACE	
15098 HARRIS RD	65 PACES N OF DW	UNK/UNK/UNK	REPLACE	
15146 HARRIS RD	BASED ON W-STAMP	19/UNK/UNK	REPLACE	
15145 HARRIS RD	BASED ON W-STAMP	25/UNK/UNK	REPLACE	



KEY PLAN
NTS

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



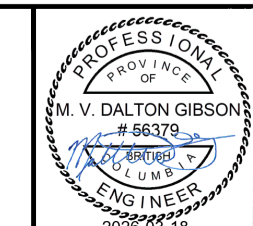
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2026/03/19	LE	MG



WATER WORKS

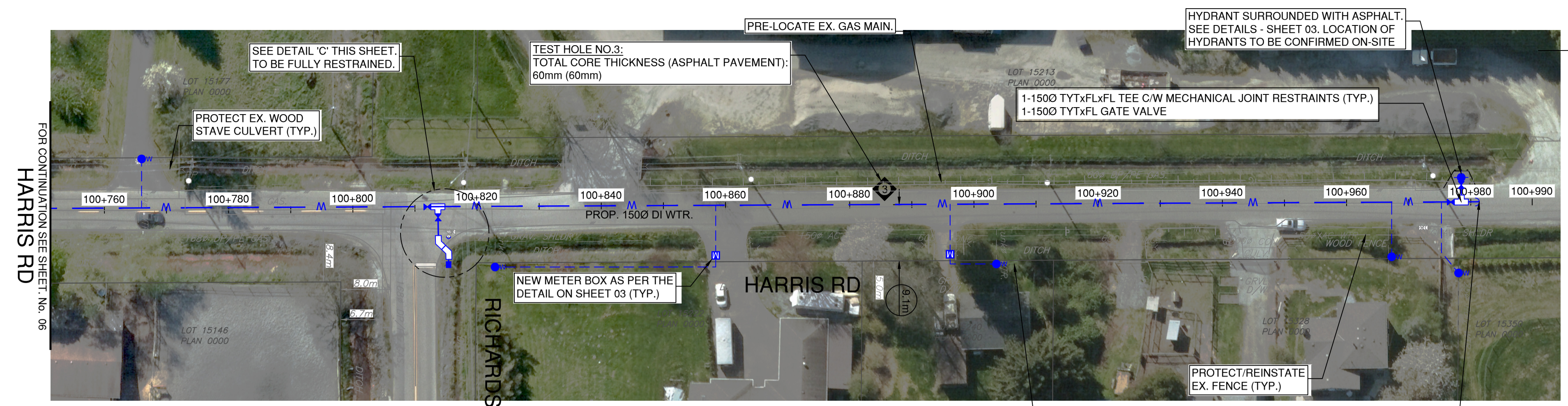
HARRIS ROAD
STA. 100+500 to 100+750



ISSUED FOR TENDER

DESIGN NO. **34162**

SCALE	1:500 HOR. 1:50 VER.	CREATION DATE	2025/05/19	DWG. NO.
DRAWN BY	TL	DESIGN BY	LE	06 OF 13
CHECKED BY	LE	APPROVED BY	MG	REV. A
PLOT DATE	March 18, 2026			

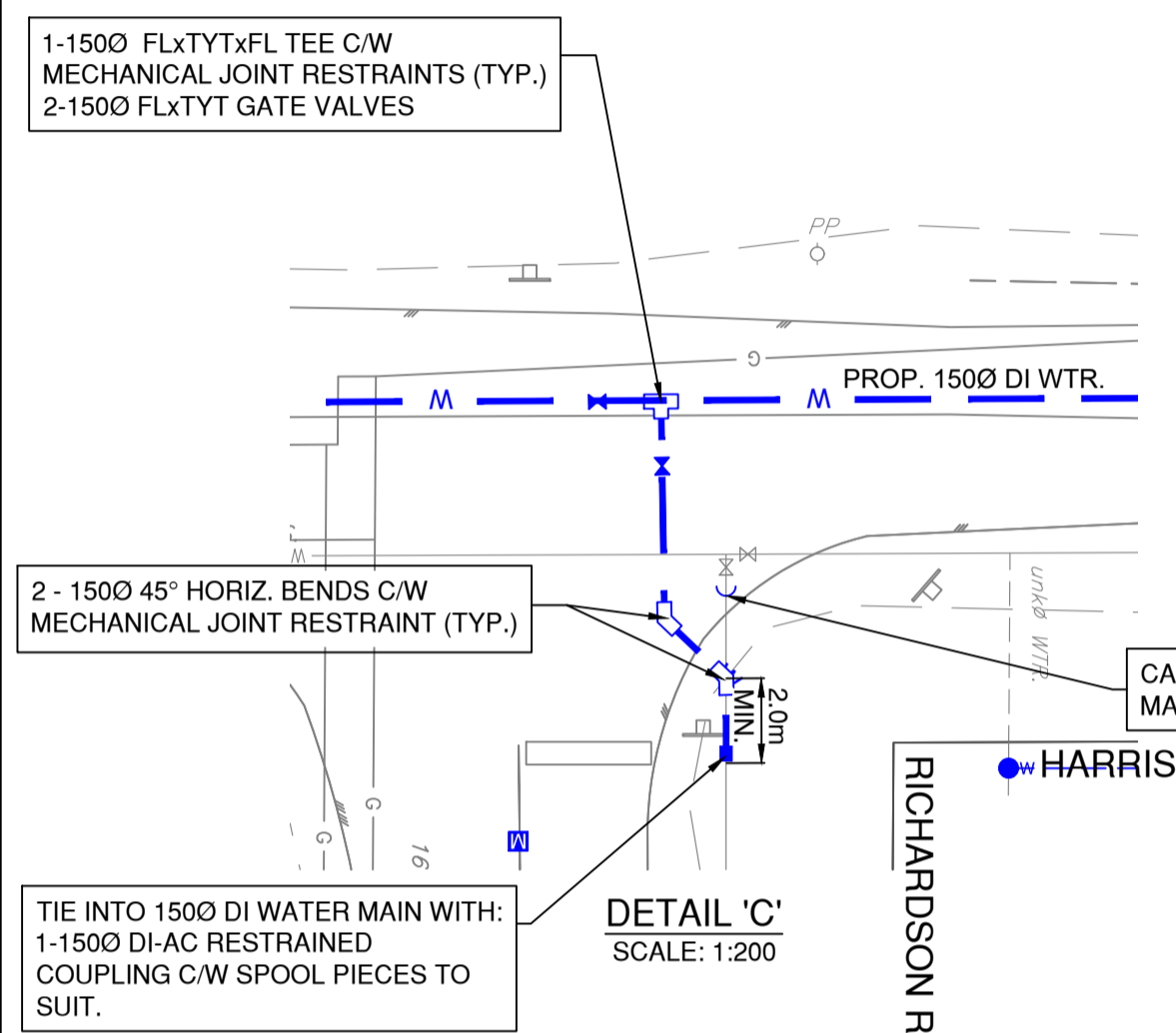


FOR WATERWORKS NOTES SEE DWG. NO. 01
FOR WATERWORKS DETAILS SEE DWG. NO. 02

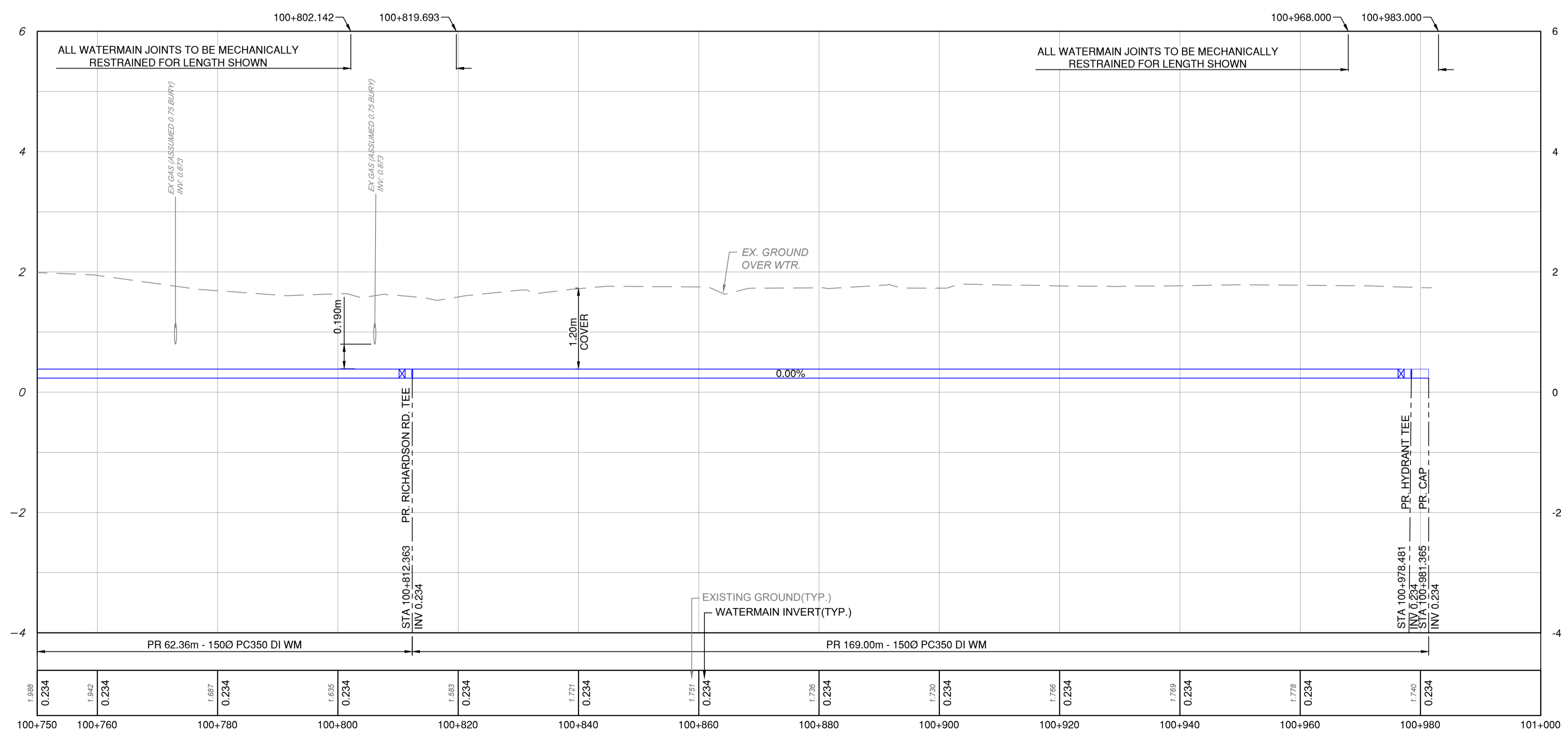
NOTES:

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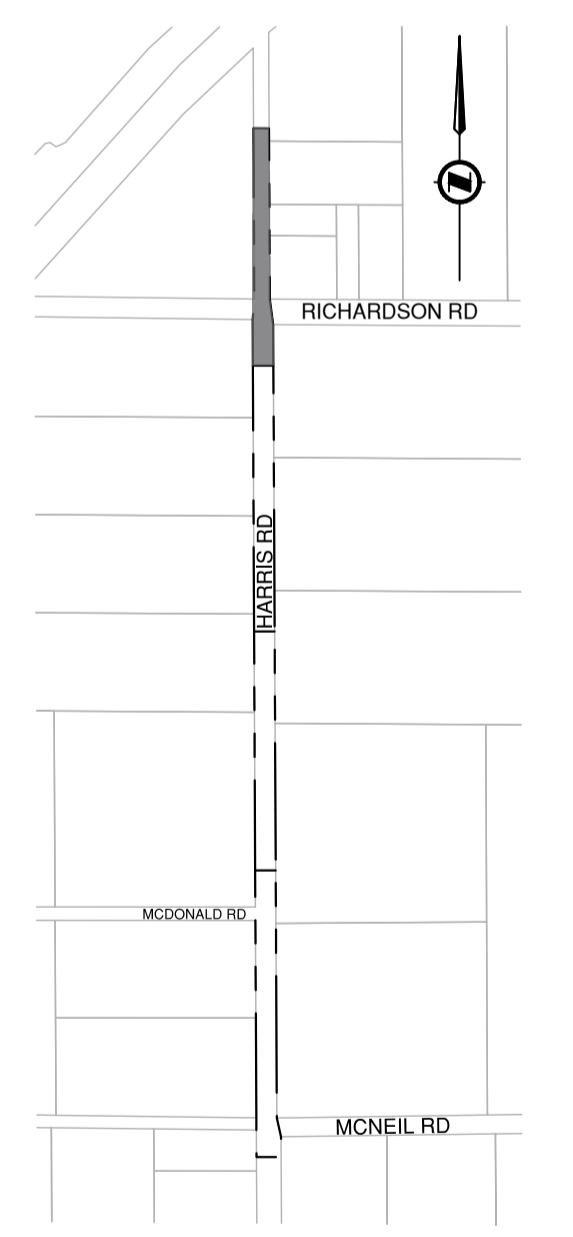
PLAN
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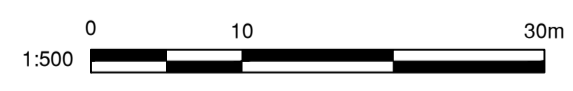
HARRIS ROAD SERVICE CONNECTIONS				
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS	
15177 HARRIS RD	CENTER OF DW	19/UNK/UNK	REPLACE	
15222 HARRIS RD	UNKNOWN	UNK/UNK/UNK	REPLACE	
15240 HARRIS RD	BASED ON W-STAMP	UNK/UNK/UNK	REPLACE	
15222 HARRIS RD	N. SIDE OF HOUSE	UNK/UNK/UNK	REPLACE	
15222 HARRIS RD	UNKNOWN	25/UNK/UNK	REPLACE	



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



KEY PLAN
NTS



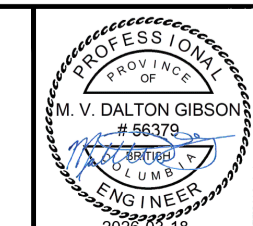
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2026/03/19	LE	MG



WATER WORKS

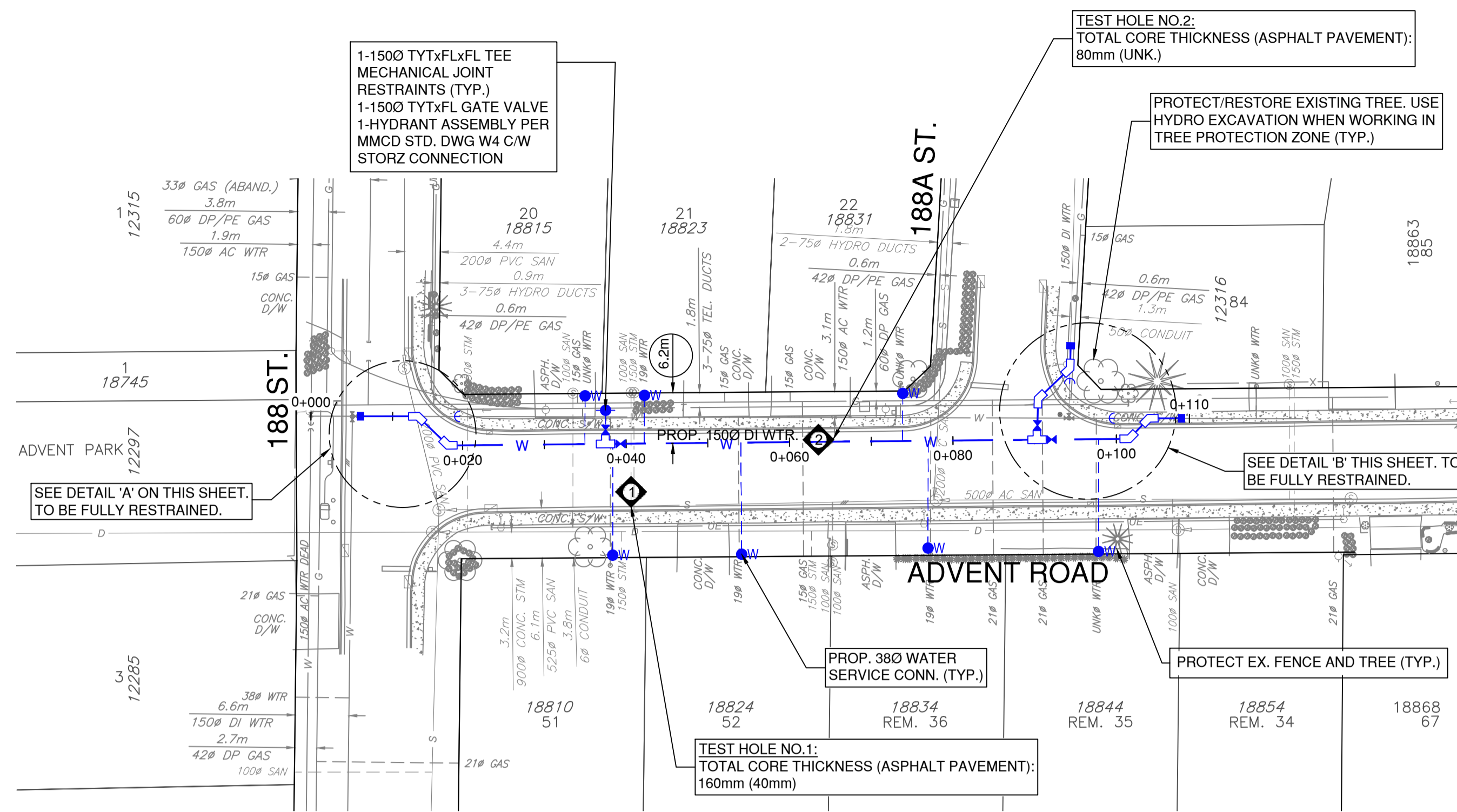
HARRIS ROAD
STA. 100+750 to 100+980.261



ISSUED FOR TENDER

DESIGN NO. 34162

SCALE	1:500 HOR. 1:50 VER.	CREATION DATE	2025/05/19	DWG. NO.
DRAWN BY	TL	DESIGN BY	LE	07 OF 13
CHECKED BY	LE	APPROVED BY	MG	REV. A
PLOT DATE	March 18, 2026			

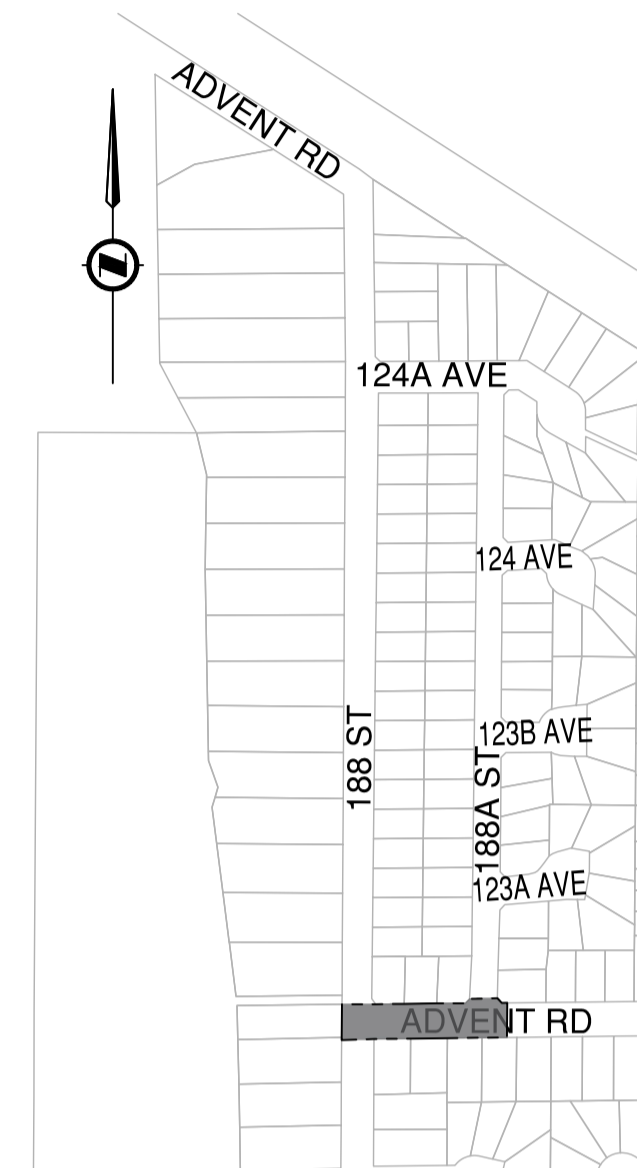


PLAN
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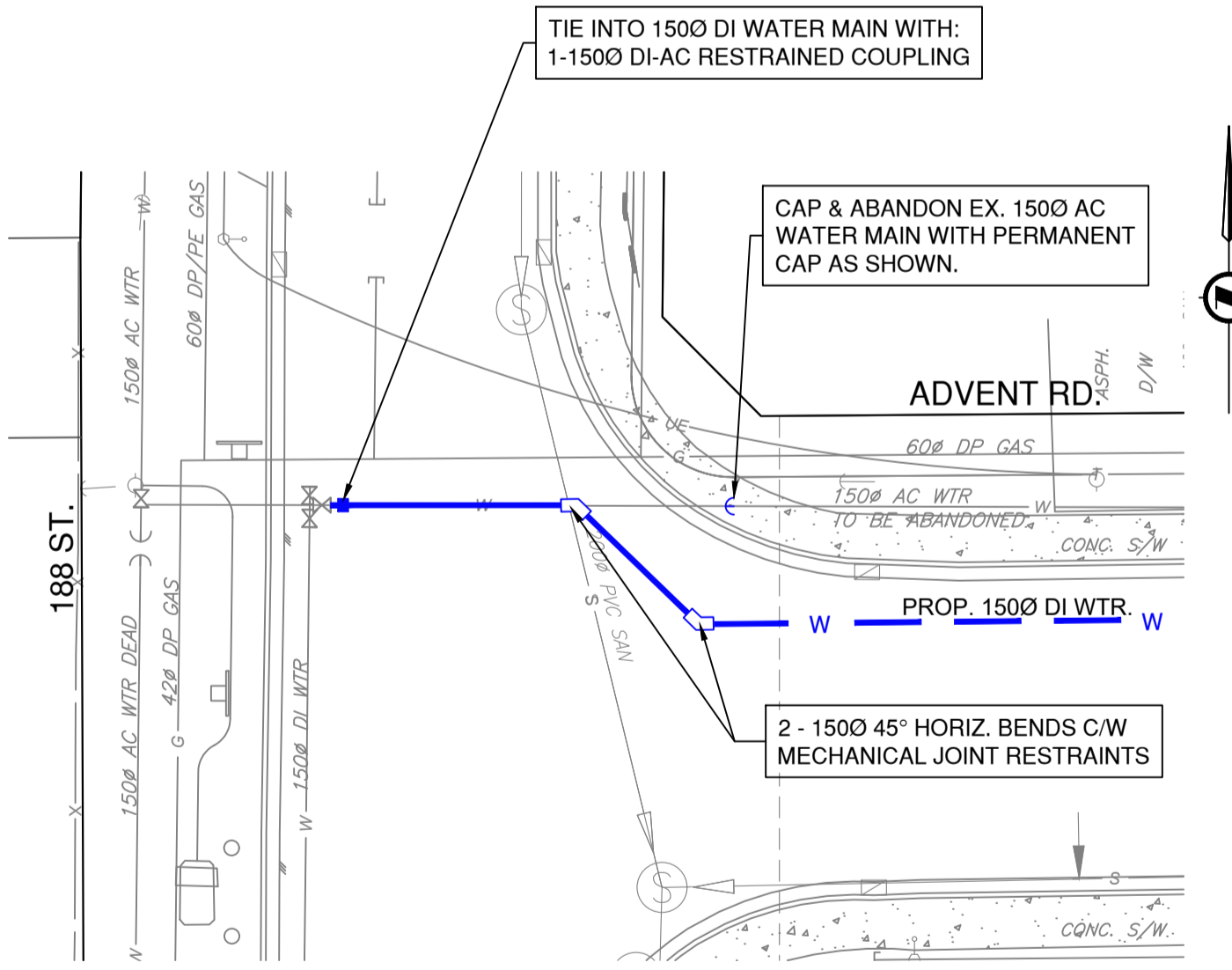
FOR WATERWORKS NOTES SEE DWG. NO. 01
FOR WATERWORKS DETAILS SEE DWG. NO. 02

ADVENT RD. - WATER SERVICE CONNECTIONS (NORTH SIDE)				
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS	
18815 ADVENT RD.	2.4m W of E PL	UNKNOWN	REPLACE	
18823 ADVENT RD.	4.9m E of W PL	19mm CU 1988	REPLACE	
18831 ADVENT RD.	16.5m E of W PL	UNKNOWN	REPLACE	

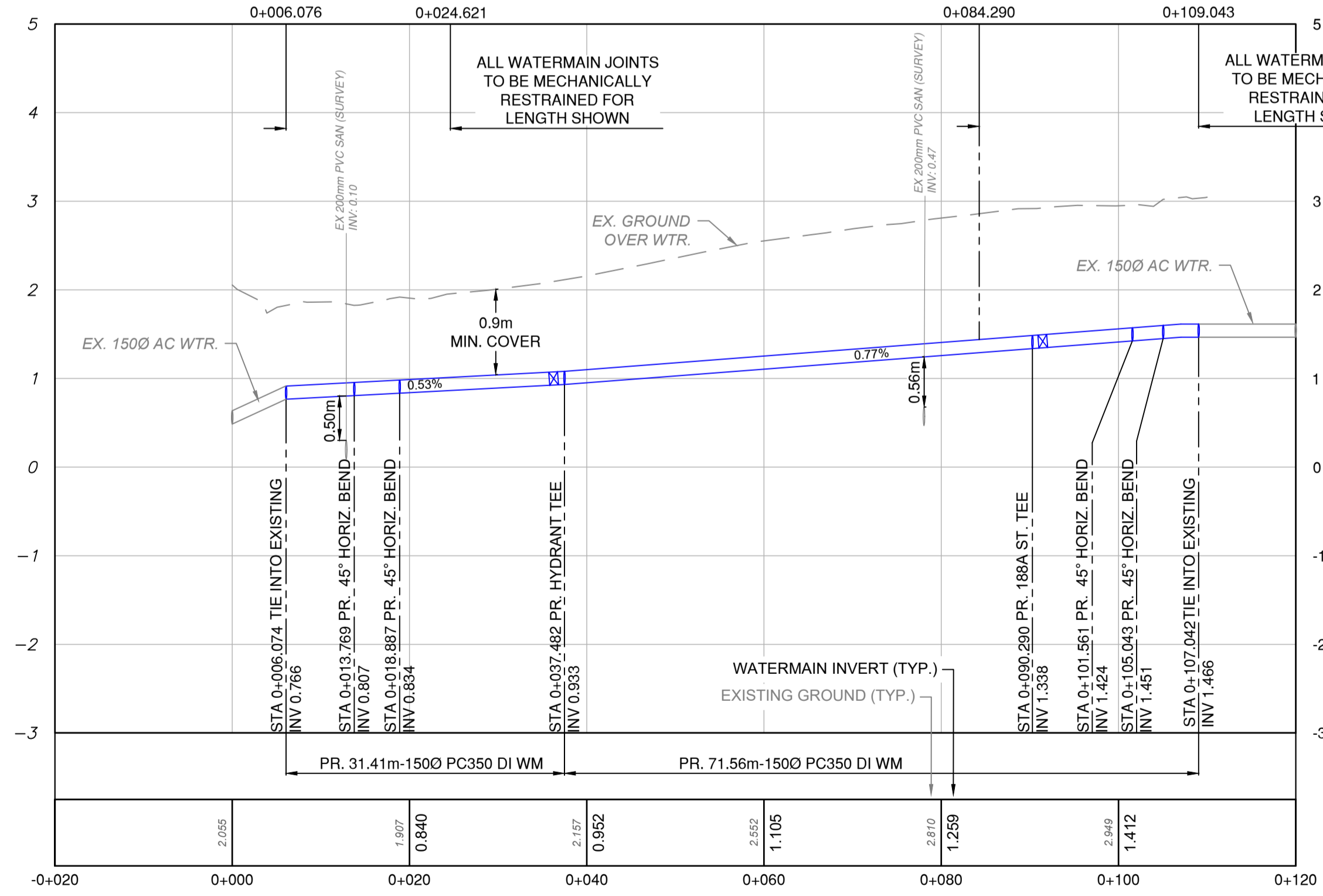
ADVENT RD. - WATER SERVICE CONNECTIONS (SOUTH SIDE)				
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS	
18810 ADVENT RD.	4.5m W of E PL	19mm 1982	REPLACE	
18824 ADVENT RD.	11.3m W of E PL	19mm 1999	REPLACE	
18834 ADVENT RD.	9.2m W of E PL	19mm 1982	REPLACE	
18844 ADVENT RD.	10.3m W of E PL	UNKNOWN	REPLACE	



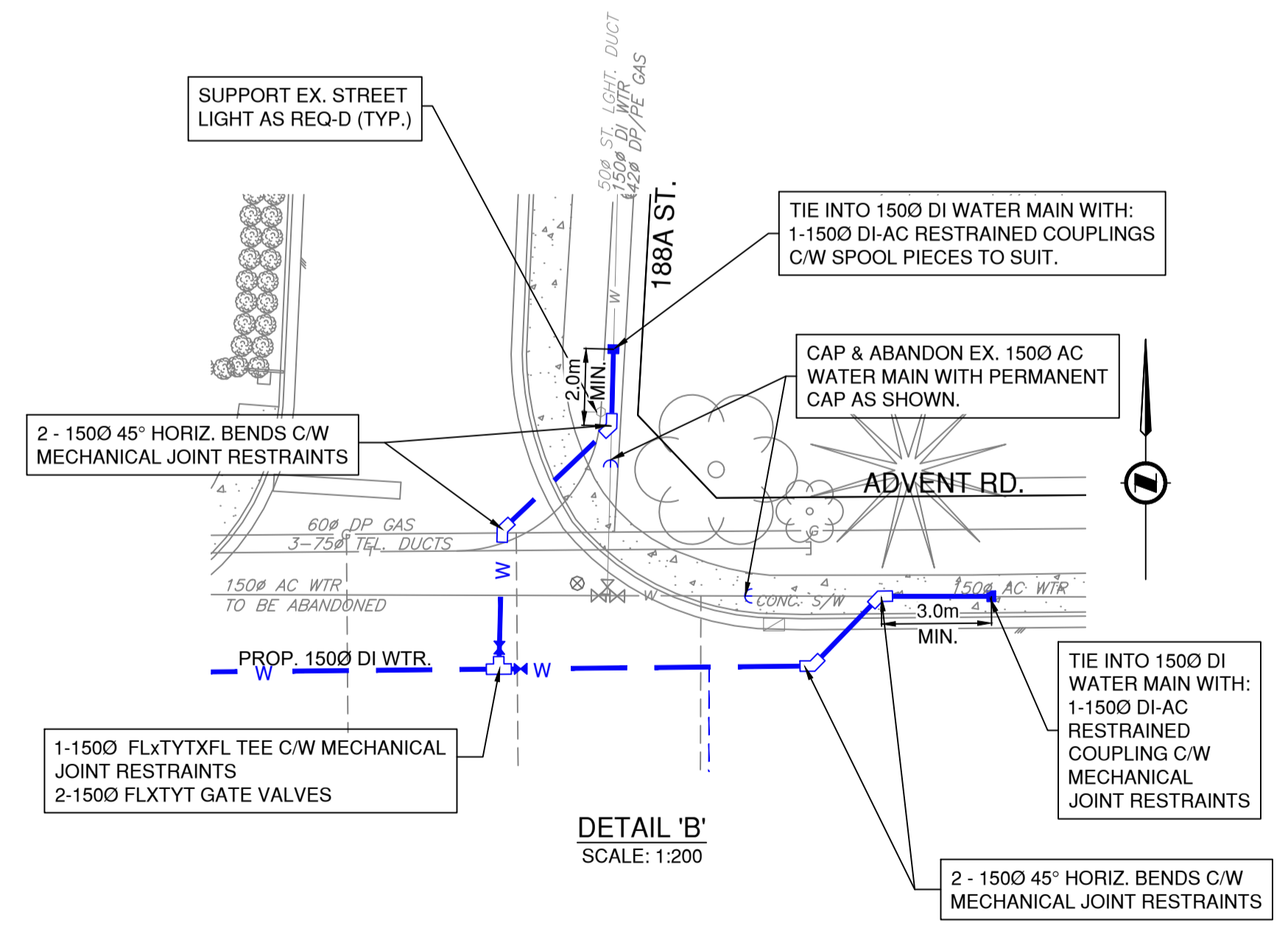
KEY PLAN
NTS



DETAIL 'A'
SCALE: 1:200



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



DETAIL 'B'
SCALE: 1:200



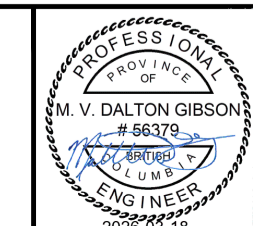
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2026/03/19	LE	MG



WATER WORKS

ADVENT ROAD
188 ST. TO STA. 0+110

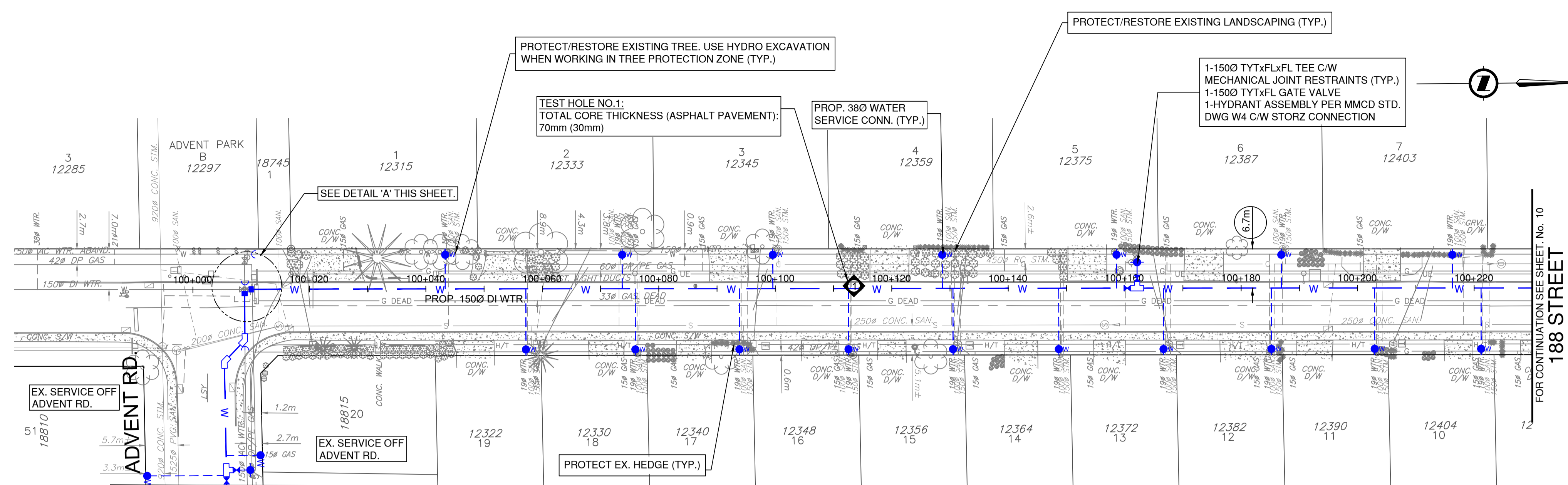


ISSUED FOR TENDER

DESIGN NO.		DWG. NO.	
SCALE	1:500 HOR. 1:50 VER.	CREATION DATE	
DRAWN BY	NL	DESIGN BY	LE
CHECKED BY	LE	APPROVED BY	MG
PLOT DATE	March 16, 2026		

34162

08 OF 13
REV. A



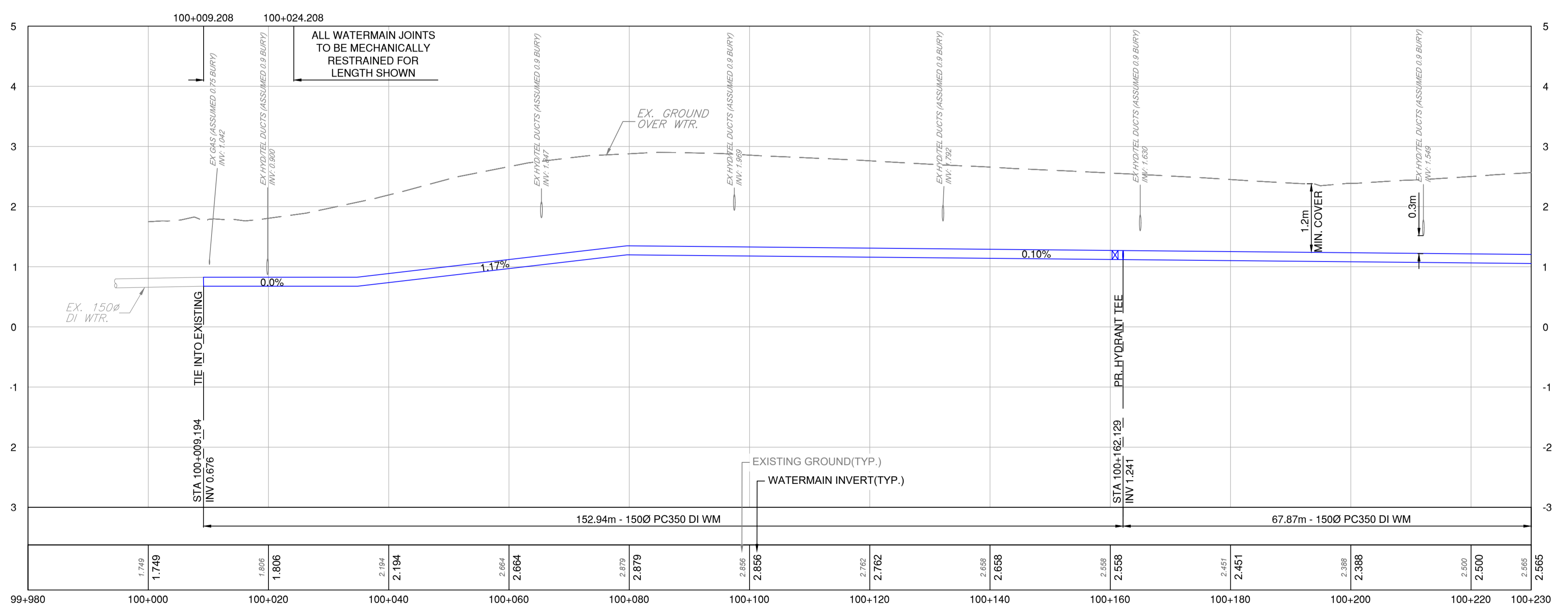
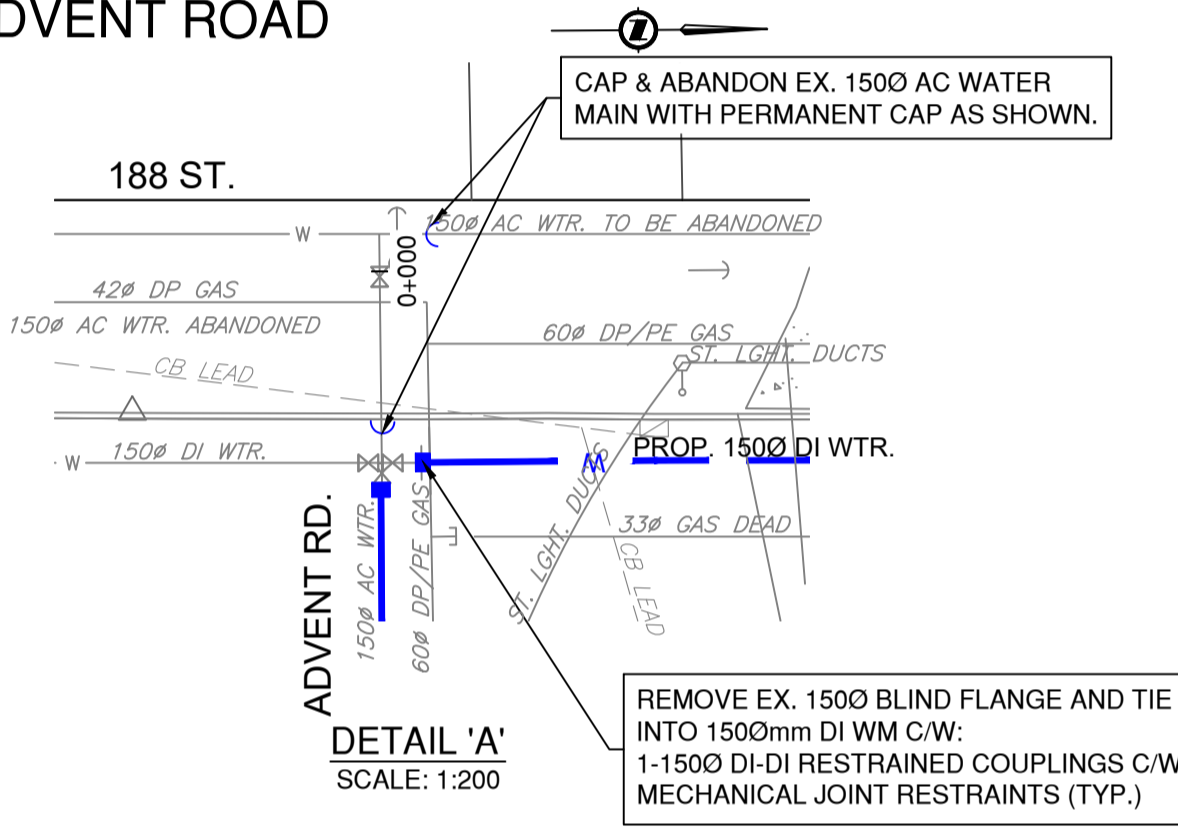
188 STREET PLAN
 SCALE: 1:500

188 ST. - WATER SERVICE CONNECTIONS (WEST SIDE)

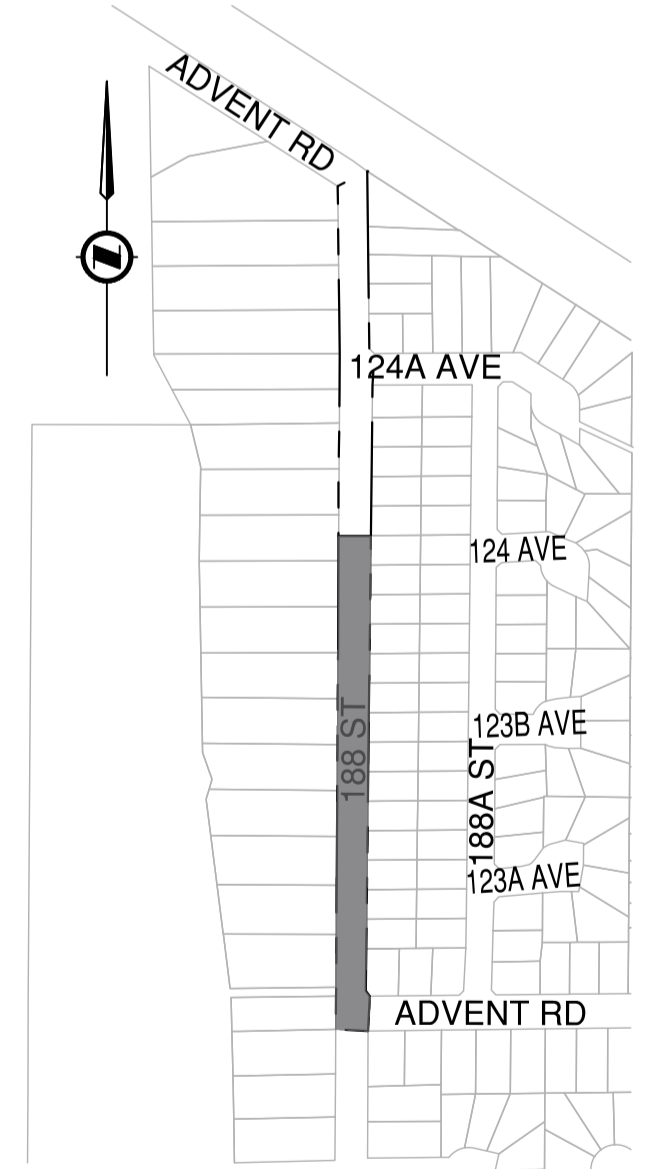
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS
12315 188 ST.	5.8m S of N FL	190 CU 1988	REPLACE
12333 188 ST.	5.8m S of N FL	190 CU 1988	REPLACE
12345 188 ST.	9.3m S of N FL	190 CU 1988	REPLACE
12359 188 ST.	9.1m S of N FL	190 CU 1988	REPLACE
12375 188 ST.	7.5m S of N FL	190 CU 1988	REPLACE
12387 188 ST.	6.9m S of N FL	190 CU 1988	REPLACE
12403 188 ST.	6.4m S of N FL	190 ?? ???? ?	REPLACE

188 ST. - WATER SERVICE CONNECTIONS (EAST SIDE)

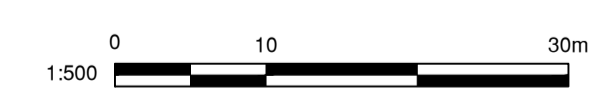
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS
12322 188 ST.	2.3m S of N FL	190 CU 1988	REPLACE
12330 188 ST.	1.7m S of N FL	190 CU 1988	REPLACE
12340 188 ST.	2.0m S of N FL	190 CU 1988	REPLACE
12348 188 ST.	1.5m S of N FL	190 CU 1988	REPLACE
12356 188 ST.	1.7m S of N FL	190 CU 1988	REPLACE
12364 188 ST.	1.7m S of N FL	190 CU 1988	REPLACE
12372 188 ST.	1.9m S of N FL	190 CU 1988	REPLACE
12382 188 ST.	2.2m S of N FL	190 CU 1988	REPLACE
12390 188 ST.	2.0m S of N FL	190 CU 1988	REPLACE
12404 188 ST.	1.9m S of N FL	190 CU 1988	REPLACE
12412 188 ST.	1.8m S of N FL	190 CU 1988	REPLACE



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



KEY PLAN
 NTS



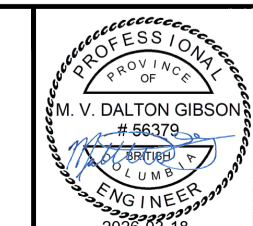
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2026/03/19	LE	MG



WATER WORKS

188 STREET
 ADVENT RD. TO STA. 100+230



#201, 3988 Henning Drive, Burnaby, B.C. V5C 6P9
 T: (604)929-2598 F: (604)929-2598

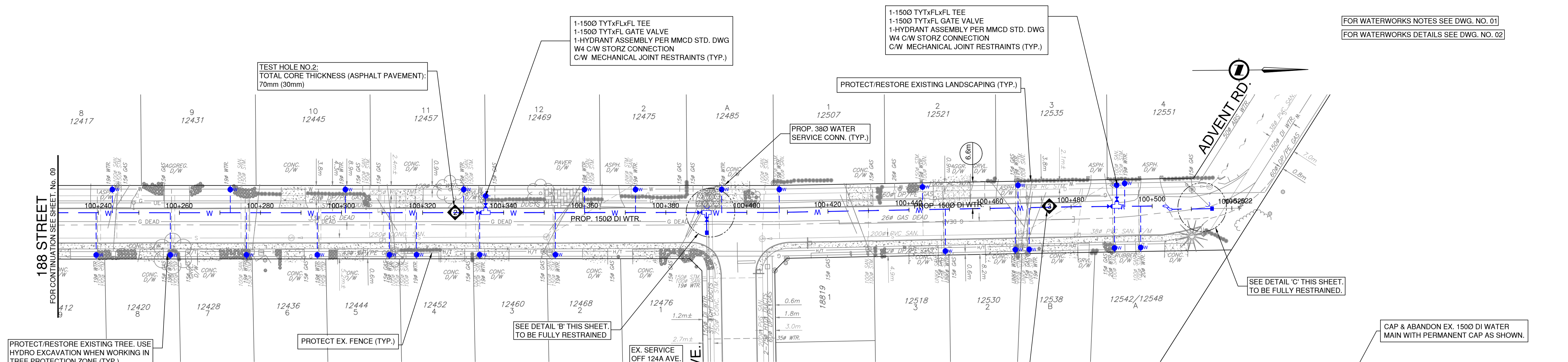
ISSUED FOR TENDER

DESIGN NO. 2025/05/19

34162

SCALE	1:500 HOR. 1:50 VER.	CREATION DATE	2025/05/19	DWG. NO.	09
DRAWN BY	NL	DESIGN BY	LE	OF	13
CHECKED BY	MG	APPROVED BY	MG		
PLOT DATE	March 18, 2026			REV.	A

FOR WATERWORKS NOTES SEE DWG. NO. 01
FOR WATERWORKS DETAILS SEE DWG. NO. 02



188 STREET PLAN
SCALE 1:500

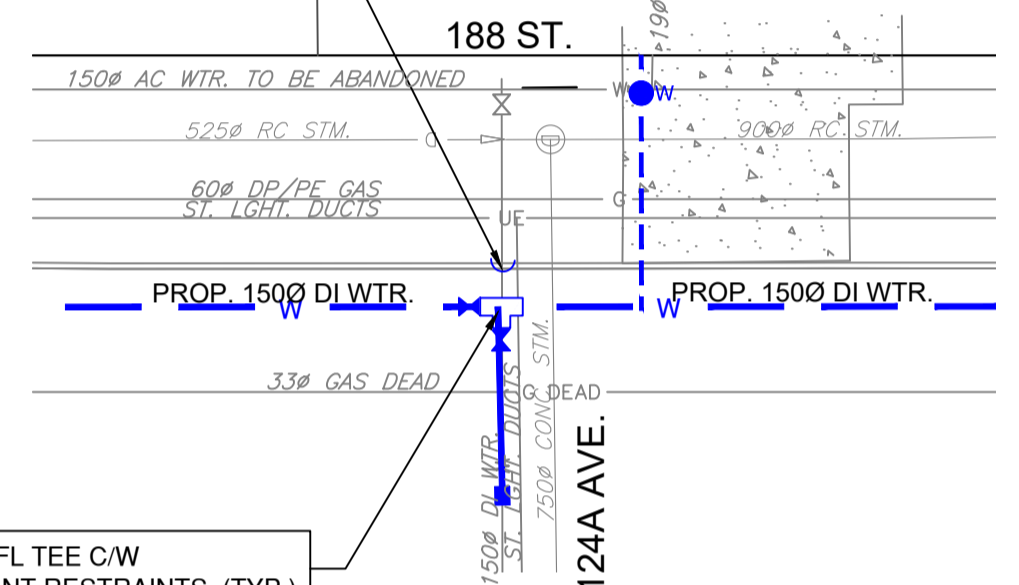
188 ST. - WATER SERVICE CONNECTIONS (WEST SIDE)

ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL	YEAR	COMMENTS
12417 188 ST.	7.5m S of N PL	190 CU 1988		REPLACE
12431 188 ST.	6.7m S of N PL	190 CU 1988		REPLACE
12445 188 ST.	6.6m S of N PL	190 CU 1988		REPLACE
12457 188 ST.	5.1m S of N PL	190 CU 1988		REPLACE
12469 188 ST.	3.8m S of N PL	190 CU 1988		REPLACE
12475 188 ST.	8.4m N of S PL	190 UNK. 1999		REPLACE
12485 188 ST.	8.8m N of S PL	190 POLY. 1999		REPLACE
12507 188 ST.	1.1m N of S PL	190 CU 1988		REPLACE
12521 188 ST.	9.0m N of S PL	190 CU 1988		REPLACE
12535 188 ST.	5.1m N of S PL	190 CU 1988		REPLACE
12551 188 ST.	4.0m N of S PL	190 CU 1988		REPLACE

188 ST. - WATER SERVICE CONNECTIONS (EAST SIDE)

ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL	YEAR	COMMENTS
12420 188 ST.	1.7m S of N PL	190 CU 1988		REPLACE
12428 188 ST.	1.7m S of N PL	190 CU 1988		REPLACE
12436 188 ST.	1.8m S of N PL	190 CU 1988		REPLACE
12444 188 ST.	2.2m S of N PL	190 CU 1988		REPLACE
12452 188 ST.	3.8m S of S PL	190 CU 1988		REPLACE
12460 188 ST.	1.3m N of S PL	190 CU 1988		REPLACE
12468 188 ST.	1.8m N of S PL	190 CU 1988		REPLACE
12518 188 ST.	1.2m S of N PL	UNKN UNK UNK		REPLACE
12530 188 ST.	1.3m S of N PL	UNKN UNK UNK		REPLACE
12538 188 ST.	1.5m N of S PL	190 CU 1988		REPLACE
12542 188 ST.	4.5m N of S PL	200 POLY 1999		REPLACE
12548 188 ST.	11.0m N of S PL	200 POLY 1999		REPLACE

CAP & ABANDON EX. 1500 AC WATER MAIN WITH PERMANENT CAP AS SHOWN.



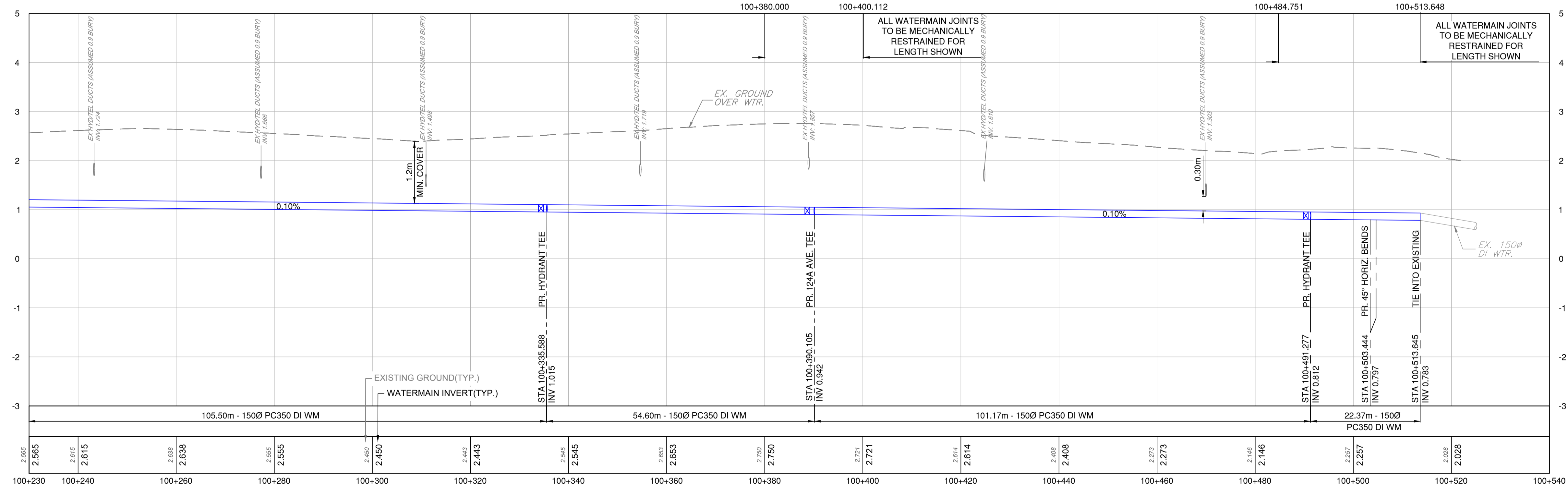
DETAIL 'B'
SCALE: 1:200

1-1500 FLxTYXFL TEE C/W MECHANICAL JOINT RESTRAINTS (TYP.)
2-1500 FLTYT GATE VALVES
1-1500 DI-DI RESTRAINED COUPLINGS C/W SPOOL PIECES TO SUIT

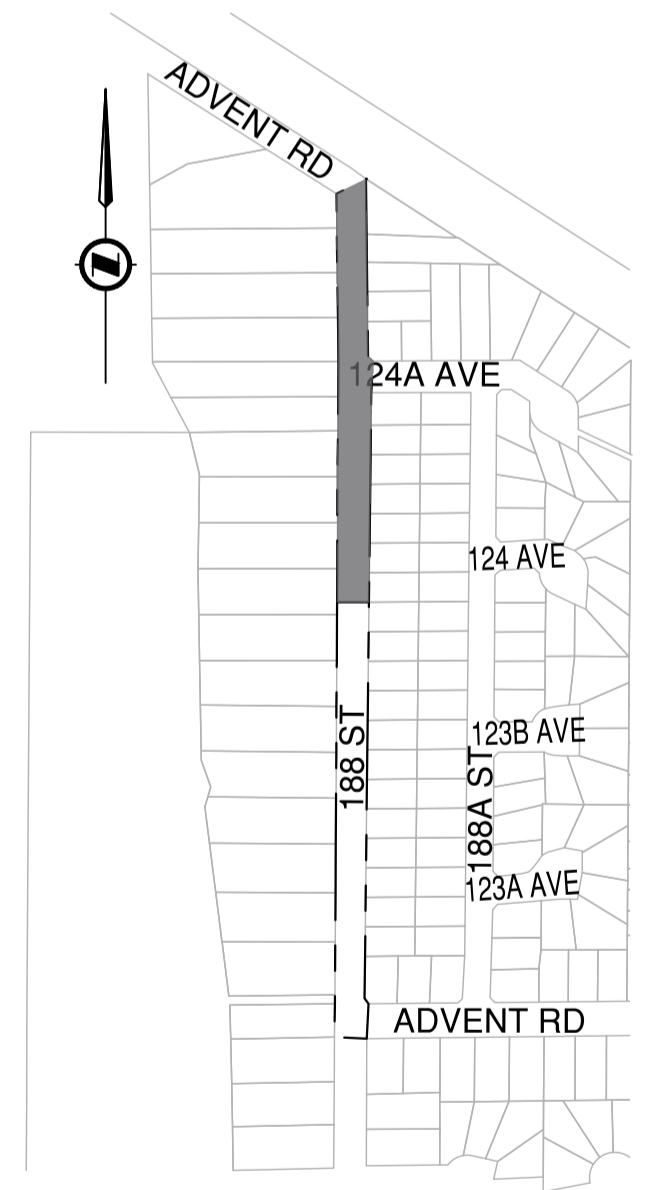
2 - 1500 45° HORIZ. BENDS C/W MECHANICAL JOINT RESTRAINTS

REMOVE EX. 1500mm BEND AND TIE INTO 1500mm DI WM C/W 1-1500 DI-DI RESTRAINED COUPLINGS C/W MECHANICAL JOINT RESTRAINTS.

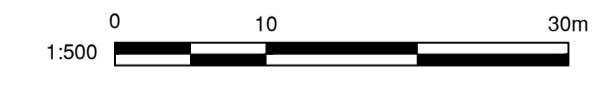
DETAIL 'C'
SCALE: 1:200



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



KEY PLAN
NTS



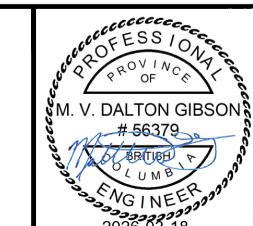
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2026/03/19	LE	MG



WATER WORKS

188 STREET
STA. 100+230 TO ADVENT RD.



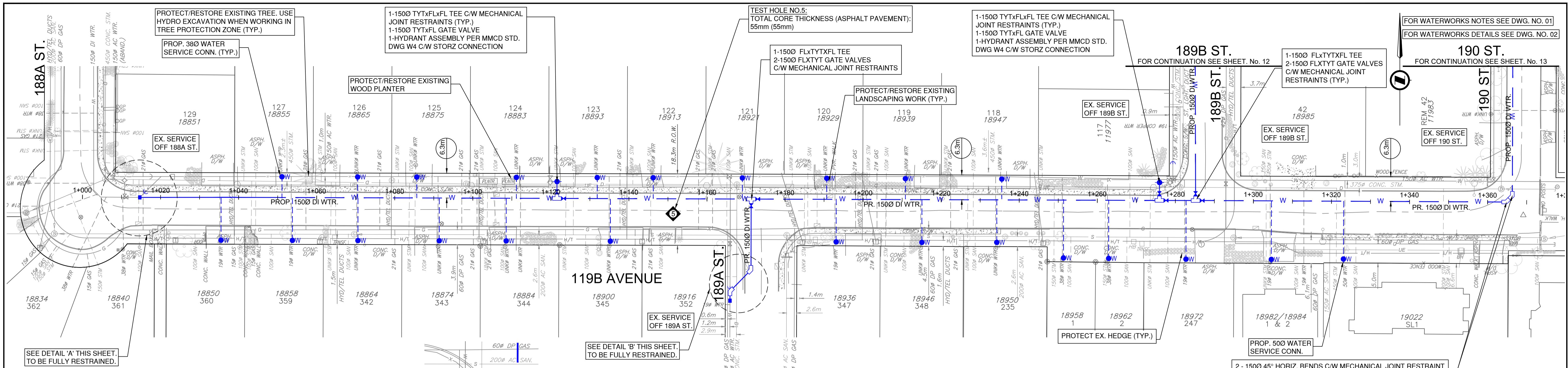
#201, 3998 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)929-2698 F: (604)929-2598

ISSUED FOR TENDER

DESIGN NO.

34162

SCALE	1:500 HOR. 1:50 VER.	CREATION DATE	2025/05/19	DWG. NO.	10
DRAWN BY	NL	DESIGN BY	LE		13
CHECKED BY	MG	APPROVED BY	MG		REV. A
PLOT DATE	March 18, 2026				



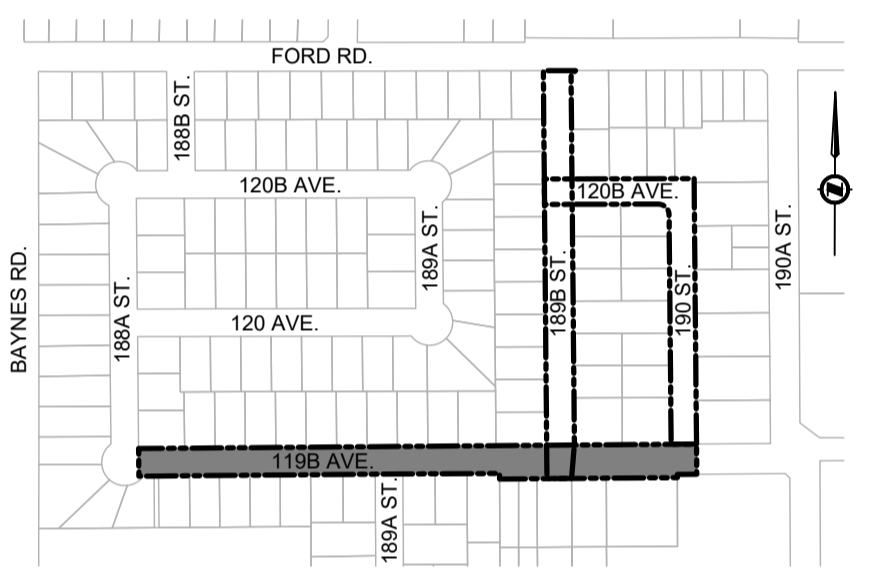
PLAN
SCALE 1: 500

119B AVE. - WATER SERVICE CONNECTIONS (NORTH SIDE)

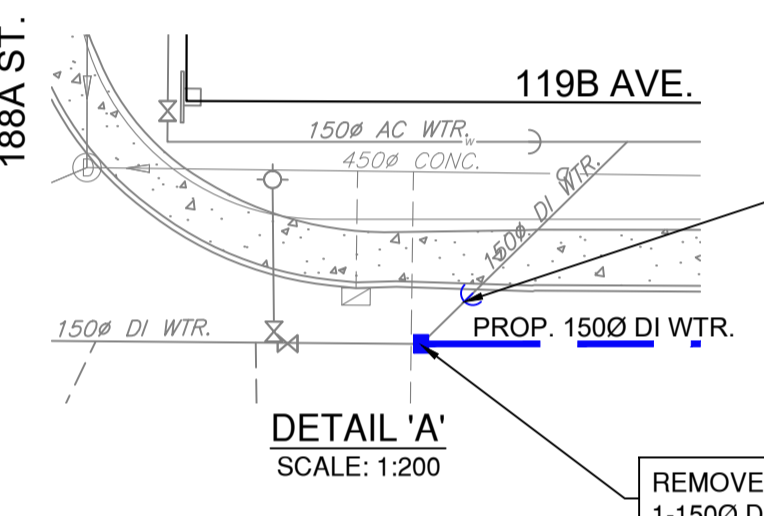
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS
18855 119B AVE.	8.2m W of E PL	UNKNOWN	REPLACE
18865 119B AVE.	8.9m W of E PL	UNKNOWN	REPLACE
18875 119B AVE.	6.2m E of W PL	UNKNOWN	REPLACE
18883 119B AVE.	7.9m W of E PL	UNKNOWN 1978	REPLACE
18893 119B AVE.	7.3m W of E PL	UNKNOWN	REPLACE
18913 119B AVE.	6.4m E of W PL	UNKNOWN	REPLACE
18921 119B AVE.	11.0m E of W PL	UNKNOWN	REPLACE
18929 119B AVE.	9.5m W of E PL	UNKNOWN	REPLACE
18939 119B AVE.	8.8m W of E PL	UNKNOWN	REPLACE
18947 119B AVE.	9.6m W of E PL	UNKNOWN	REPLACE

119B AVE. - WATER SERVICE CONNECTIONS (SOUTH SIDE)

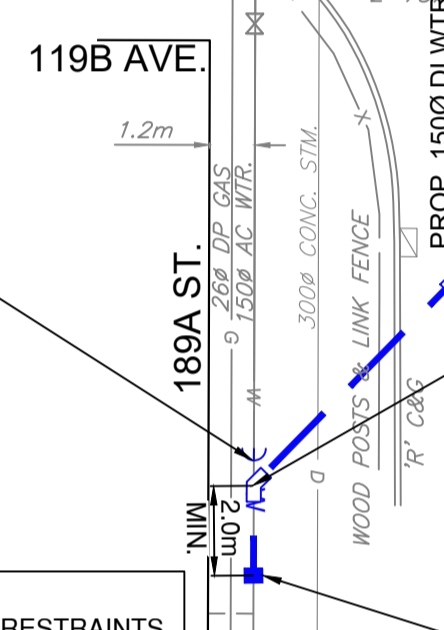
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS
18850 119B AVE.	6.4m W of E PL	190 1974	REPLACE
18858 119B AVE.	8.2m W of E PL	190 1974	REPLACE
18864 119B AVE.	8.6m E of W PL	UNKNOWN	REPLACE
18874 119B AVE.	9.3m E of W PL	UNKNOWN	REPLACE
18884 119B AVE.	8.3m E of W PL	UNKNOWN	REPLACE
18900 119B AVE.	8.5m W of E PL	UNKNOWN	REPLACE
18916 119B AVE.	15.5m S of N PL	190 CU 1981	NO ACTION
18936 119B AVE.	11.6m W of E PL	190 CU 1978	REPLACE
18946 119B AVE.	10.4m E of W PL	UNKNOWN	REPLACE
18950 119B AVE.	8.1m E of W PL	UNKNOWN	REPLACE
18958 119B AVE.	3.9m E of W PL	380 POLY.	REPLACE
18962 119B AVE.	3.0m E of W PL	380 POLY.	REPLACE
18972 119B AVE.	10.4m E of W PL	190 1985	REPLACE
18982/18984 119B AVE.	9.3m E of W PL	UNKNOWN	REPLACE
19022 119B AVE.	5.3m E of W PL	500 UNKNOWN 1977	REPLACE



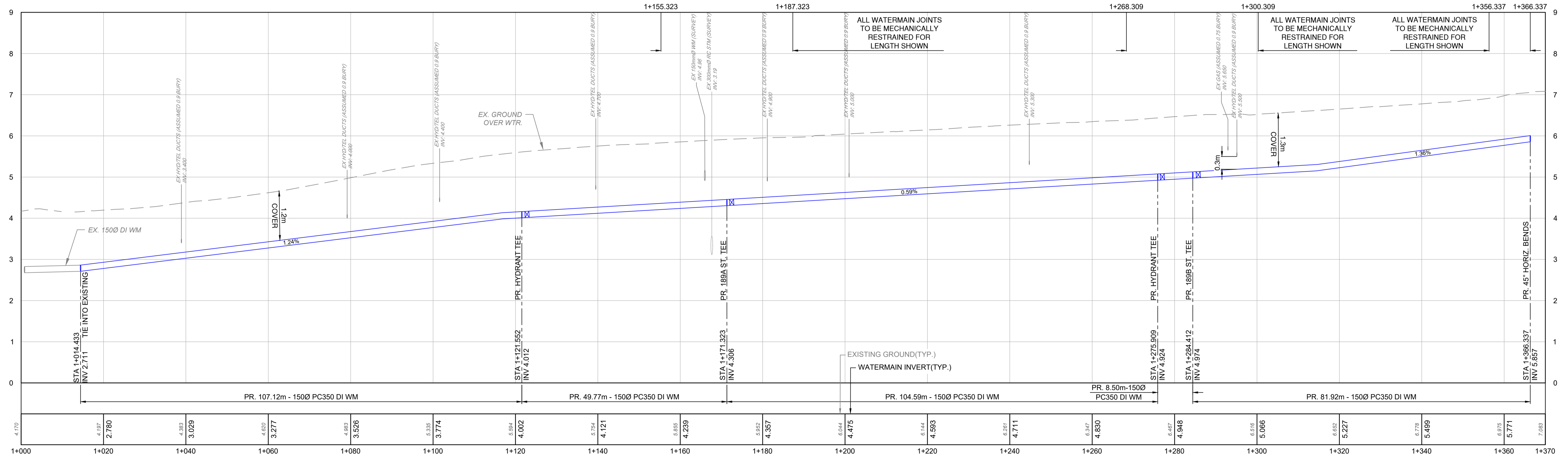
KEY PLAN
NTS



DETAIL 'A'
SCALE: 1:200



DETAIL 'B'
SCALE: 1:200



PROFILE
SCALE 1: 500H / 1: 50V

ISSUED FOR TENDER

34162

PLOT DATE: March 16, 2026

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2026/03/19	LE	MG



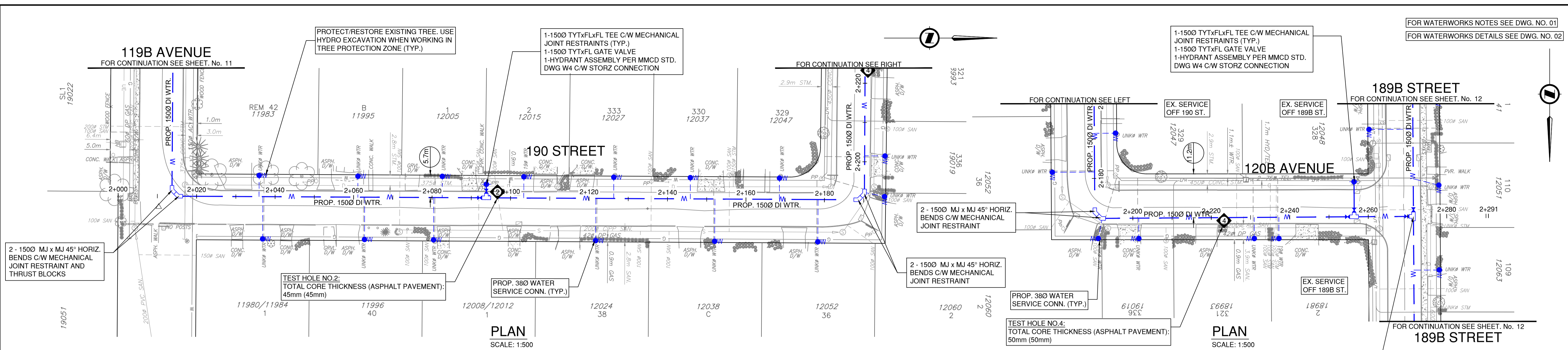
WATER WORKS

119B AVENUE
188A ST. TO 190 ST.



SCALE	1:500 HOR. 1:50 VER.	CREATION DATE	2025/05/19	DWG. NO.	11
DRAWN BY	NL	DESIGN BY	LE	OF	13
CHECKED BY	MG	APPROVED BY	MG	REV.	A

File: c:\ADSKACCD\03\133775\Project\102_CADD\20_Drawing\202_Production\2025 - Design Only\Sheet\33775_119B_SH_PR_WATR.dwg



190 ST. - WATER SERVICE CONNECTIONS (WEST SIDE)

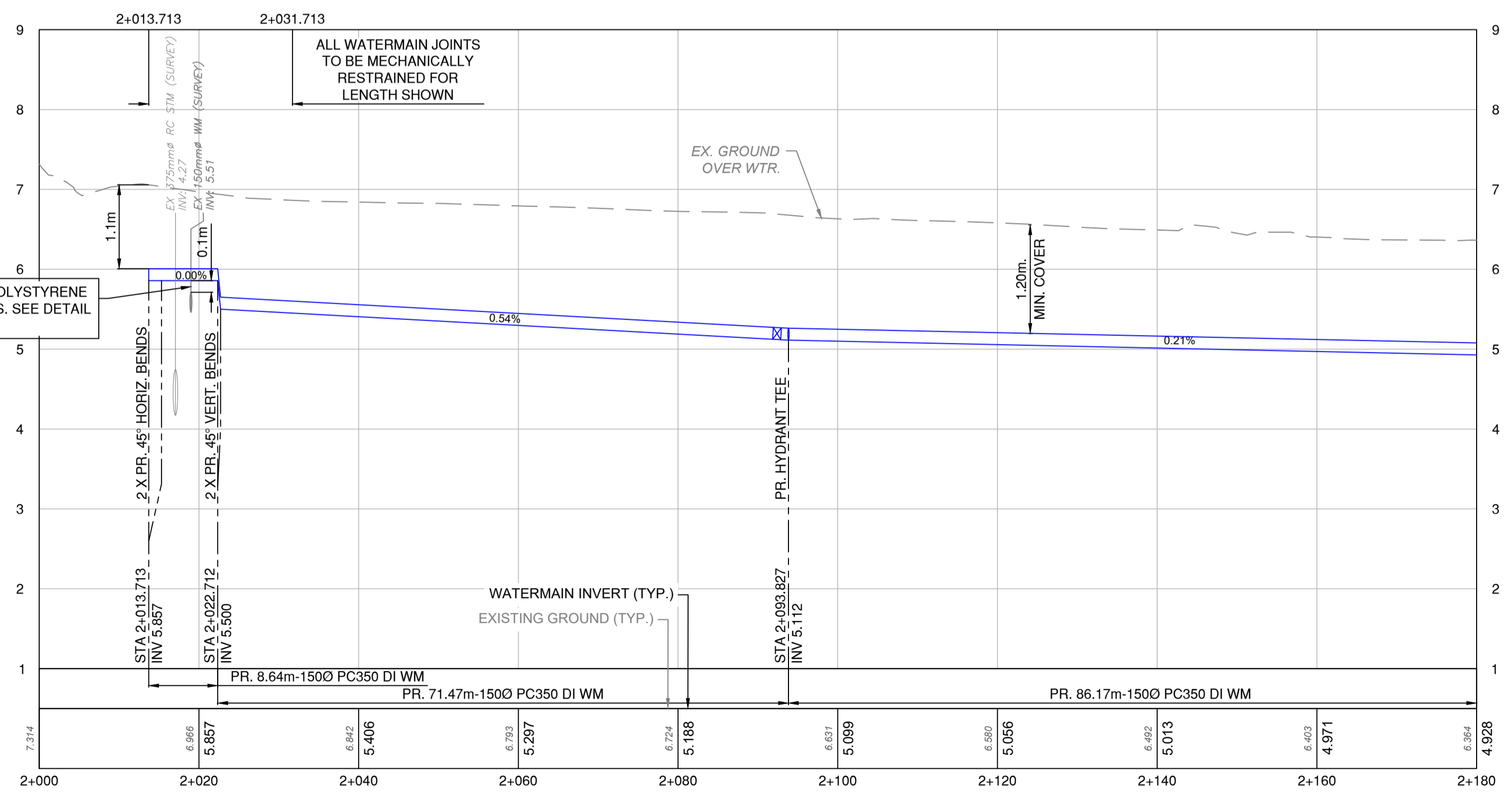
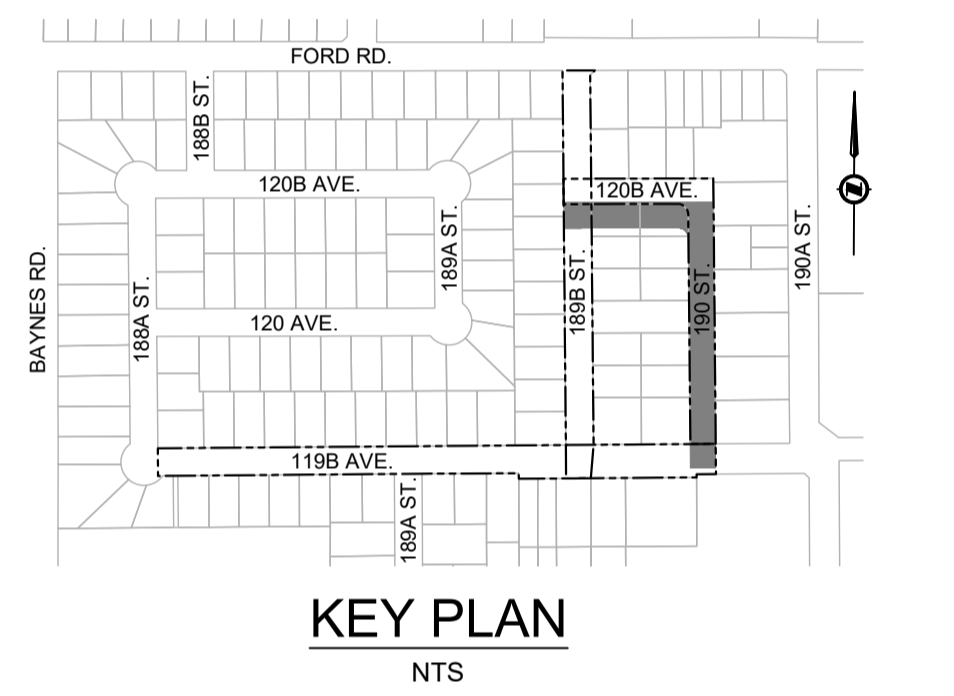
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS
11983 190 ST.	14.6m S of N PL	UNKNOWN	REPLACE
11995 190 ST.	10.5m N of S PL	UNKNOWN	REPLACE
12005 190 ST.	10.7m N of S PL	UNKNOWN	REPLACE
12015 190 ST.	10.1m N of S PL	190 UNKNOWN	REPLACE
12027 190 ST.	9.6m S of N PL	UNKNOWN	REPLACE
12037 190 ST.	9.9m N of S PL	UNKNOWN	REPLACE
12047 190 ST.	11.3m N of S PL	UNKNOWN	REPLACE

190 ST. - WATER SERVICE CONNECTIONS (EAST SIDE)

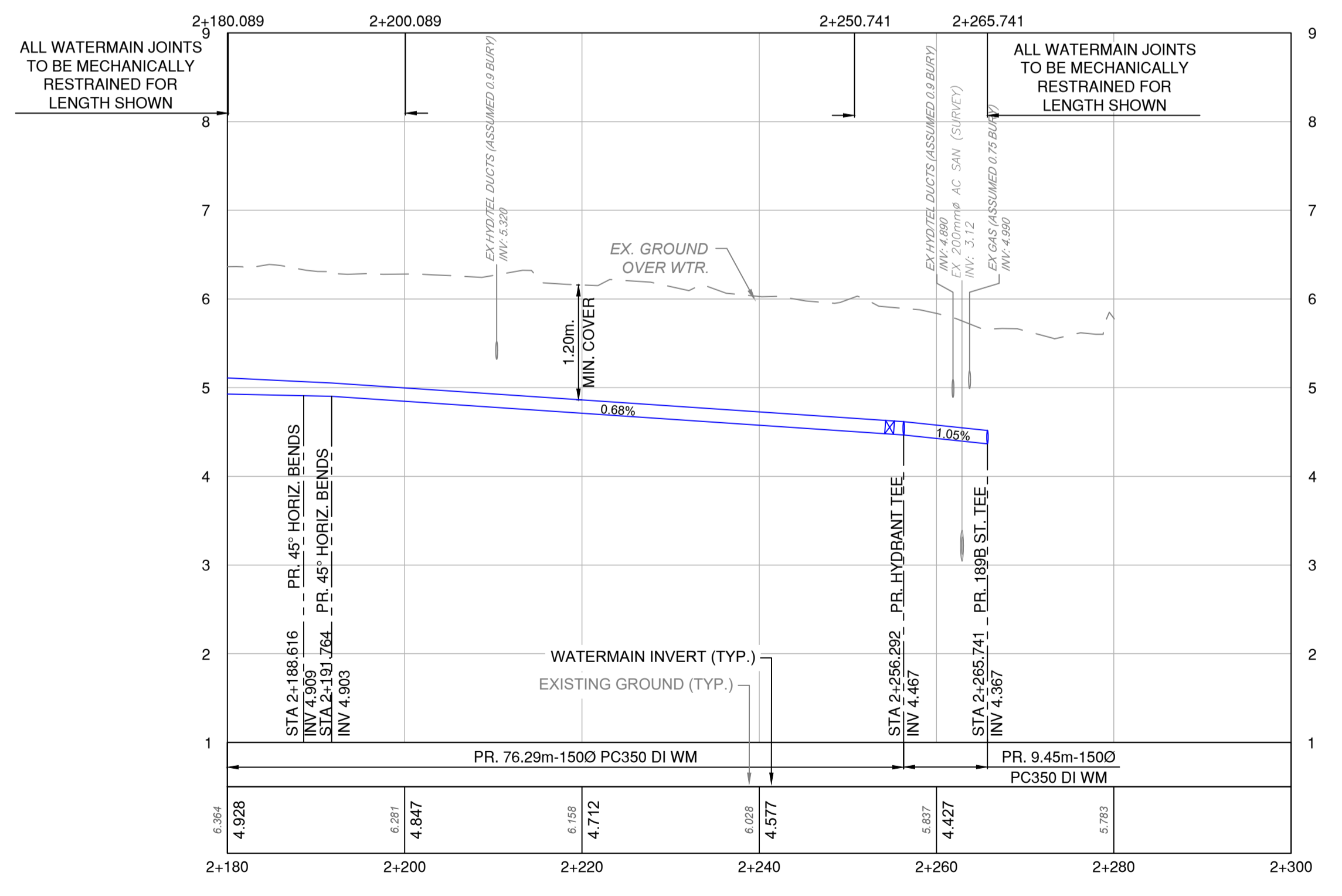
ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS
11980/84 190 ST.	11.6m S of N PL	UNKNOWN	REPLACE
11996 190 ST.	13.7m N of S PL	UNKNOWN	REPLACE
12008/12 190 ST.	3.1m N of S PL	UNKNOWN	REPLACE
12024 190 ST.	13.3m S of N PL	UNKNOWN	REPLACE
12038 190 ST.	12.4m S of N PL	UNKNOWN	REPLACE
12052 190 ST.	13.9m N of S PL	UNKNOWN	REPLACE

120B AVE. - WATER SERVICE CONNECTIONS (NORTH SIDE)

ADDRESS	EX. SERVICE LOCATION	EX. SIZE/MATERIAL/YEAR	COMMENTS
12060 190 ST.	0.8m E of W PL	UNKNOWN	REPLACE
19019 120B AVE.	9.1m W of E PL	UNKNOWN	REPLACE
18993 120B AVE.	4.6m E of W PL	UNKNOWN	REPLACE



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



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

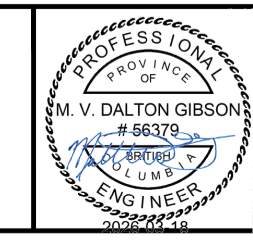
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2026/03/19	LE	MG



WATER WORKS

190 ST. & 120B AVE.
188A ST. TO 190 ST.



ISSUED FOR TENDER		DESIGN NO.	
SCALE	1:500 HOR. 1:50 VER.	CREATION DATE	2025/05/19
DRAWN BY	NL	DESIGN BY	LE
CHECKED BY	MG	APPROVED BY	MG
PLOT DATE	March 16, 2026		

34162

DWG. NO. 13 OF 13 REV. A