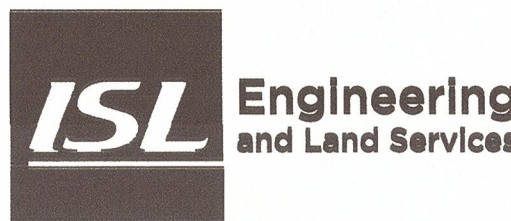


FORT LANGLEY NATIONAL HISTORIC SITE EXISTING UTILITY REHABILITATION PHASE 2



LOCATION PLAN
NTS

DRAWING INDEX		
SHEET NO.	DRAWING NUMBER	DESCRIPTION
GENERAL DRAWINGS		
01	R.081111.01-100	COVER SHEET / LOCATION PLAN & DRAWING INDEX
02	R.081111.01-101	PRE-LOCATE PLAN
CIVIL DRAWINGS		
03	R.081111.01-103	PROPOSED SANITARY - WEST SIDE
04	R.081111.01-104	PROPOSED SANITARY AND FIBRE OPTIC - EAST SIDE
05	R.081111.01-105	PROPOSED WATER AND FIBRE OPTIC - WEST SIDE
06	R.081111.01-106	PROPOSED WATER - EAST SIDE
07	R.081111.01-107	PROPOSED WATER - WATER METER
08	R.081111.01-108	PROPOSED STORM - WEST SIDE
09	R.081111.01-109	SANITARY PUMP STATIONS - ABANDONMENT PLANS
10	R.081111.01-110	STANDARD DETAILS
11	R.081111.01-111	MECHANICAL INTERIOR PLAN



5		
4		
3	ISSUED FOR TENDER	2017/08/15
2	ISSUED FOR 100% REVIEW	2017/07/27
1	ISSUED FOR 60% REVIEW	2017/05/28
0	ISSUED FOR 33% REVIEW	2017/04/10
Revision/	Description/Description	Date/Date
Client/client		

**PUBLIC WORKS &
GOVERNMENT SERVICES
CANADA (PWGSC)**

219-800 BARRARD STREET
VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet

**FORT LANGLEY NHS
UTILITY IMPROVEMENTS**

Consultant Signature Only

S. VERKAIK

Designed by/Concept par

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Drawn by/Dessiné par

S. CLARK

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Gestionnaire régionale, Services d'architecture et de génie, TPSGC

TOM DUNPHY

Drawing title/Titre du dessin

**COVER SHEET / LOCATION PLAN
& DRAWING INDEX**

Project No./No. du
projet
R.081111.01

Sheet/Feuille
1
OF 11

Revision no./
La Révision
no.
3

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R.081111.01-100

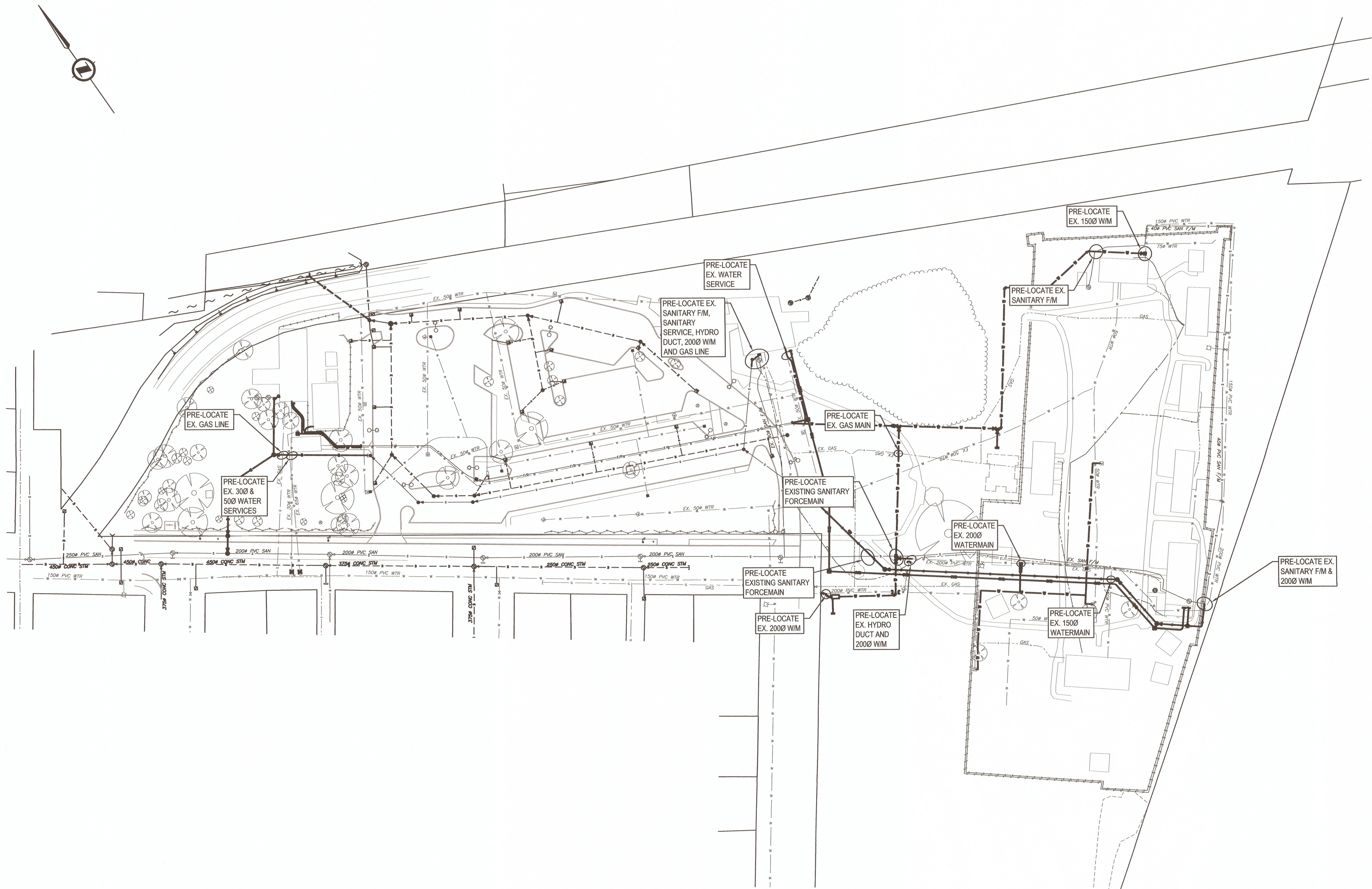
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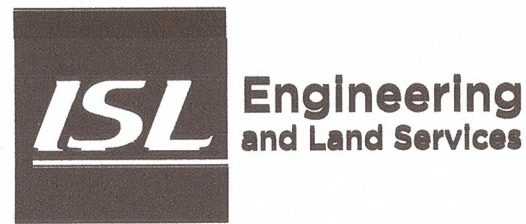
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DWG. NO.
R.081111.01-100

PWGSC - A1 - 841X594



PRE-LOCATE PLAN
SCALE: 1:750



5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2017/08/15
Revision/ Révision	Description/Description	Date/Date

Client/client

PUBLIC WORKS &
GOVERNMENT SERVICES
CANADA (PWGSC)

Project title/Titre du projet
FORT LANGLEY NHS
FORT LANGLEY, BC

FORT LANGLEY NHS
UTILITY IMPROVEMENTS

Consultant Signature Only
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T. DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC
REGIONAL MANAGER AES

Drawing title/Titre du dessin

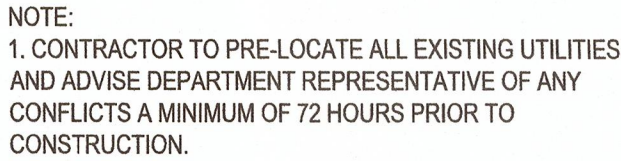
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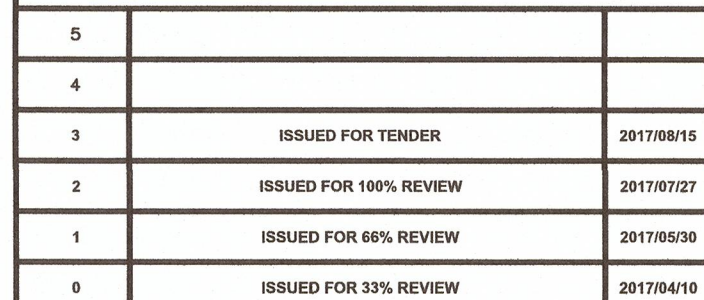
Project No./No. du
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R.081111.01

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02
OF 11

Revision no./
La Révision
no.
0

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**PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA**

Project title/Titre du projet

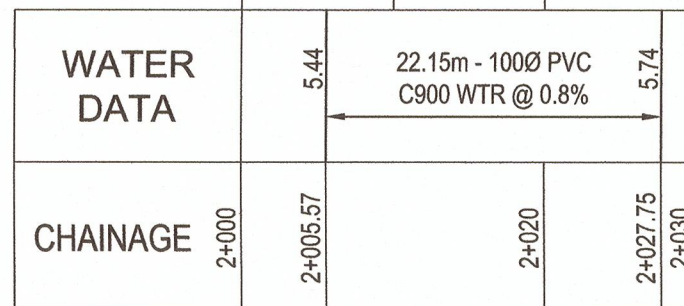
FORT LANGLEY NHS EXISTING UTILITY REHABILITATION

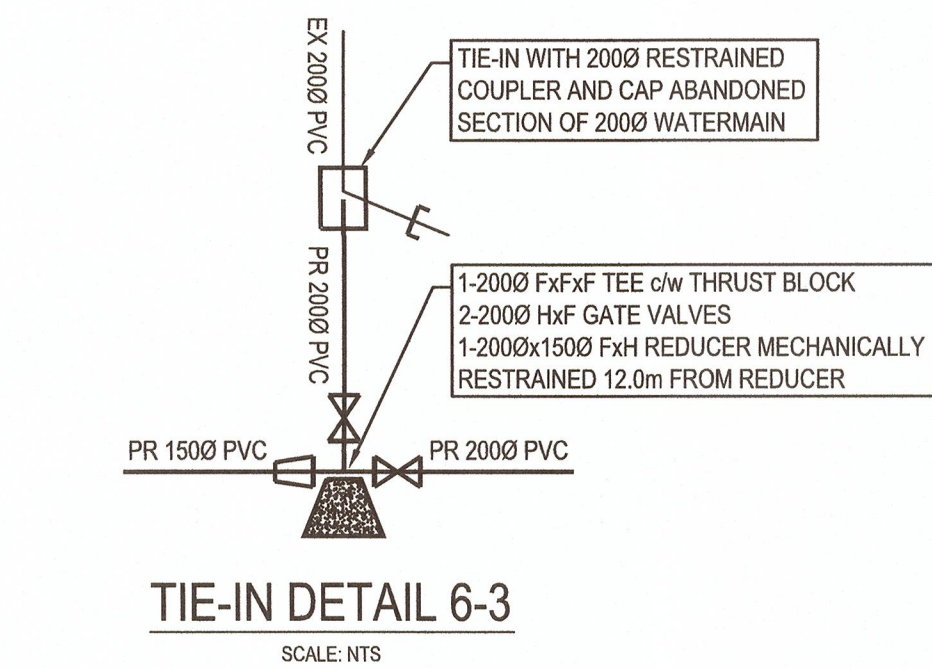
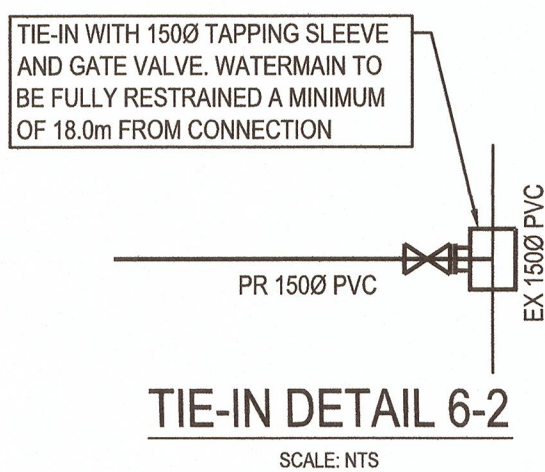
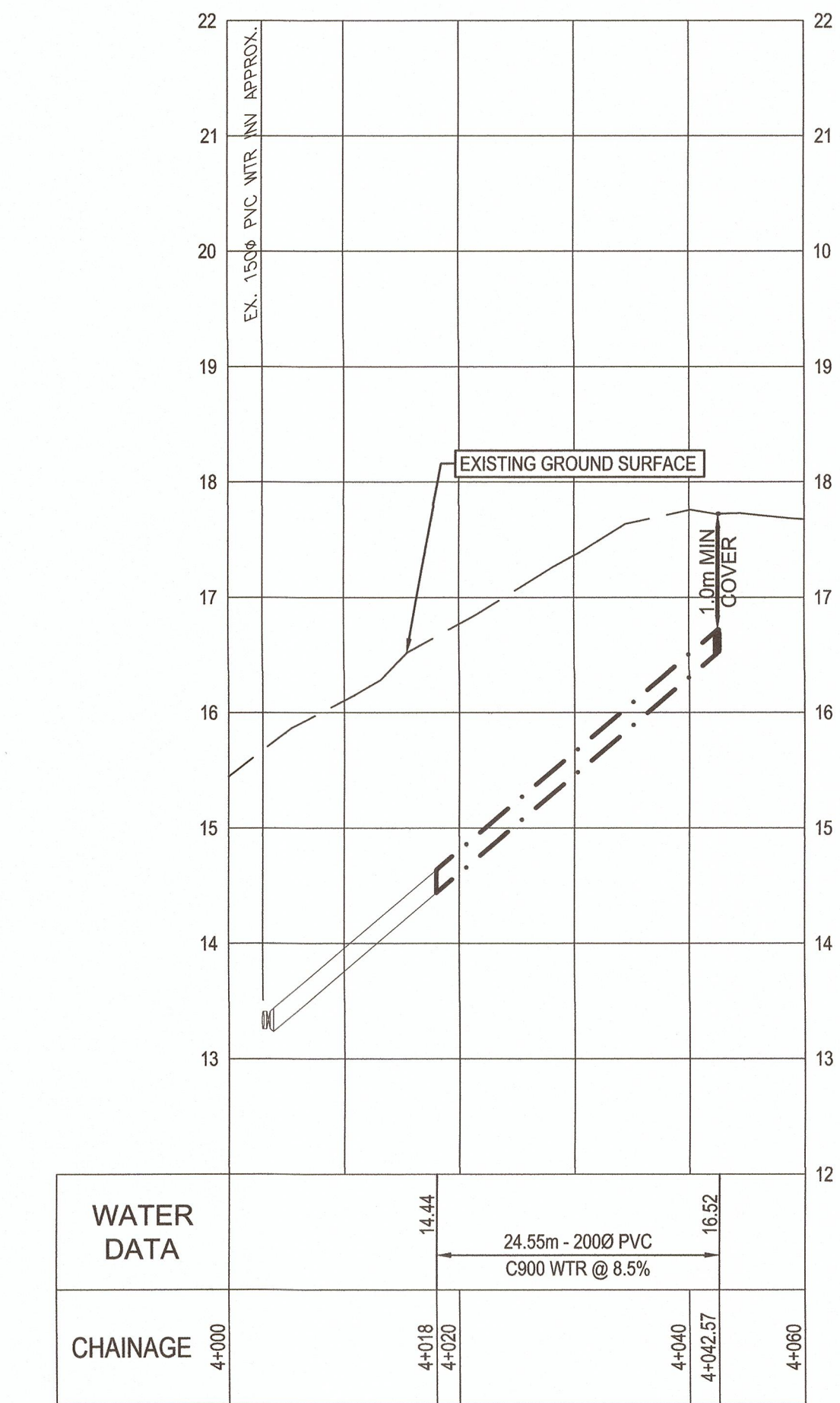
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Revision no./
La Révision
no. **3**



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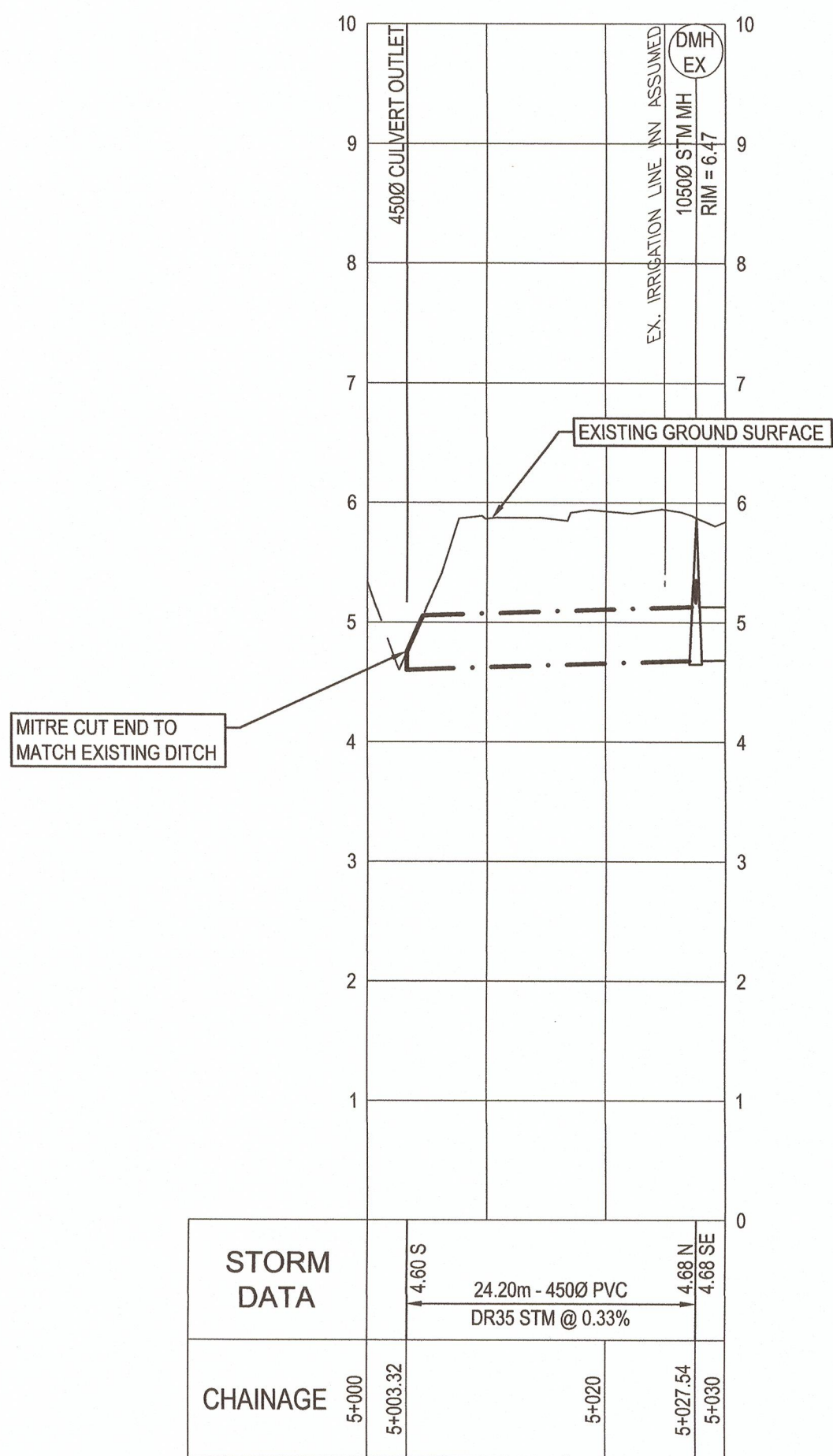
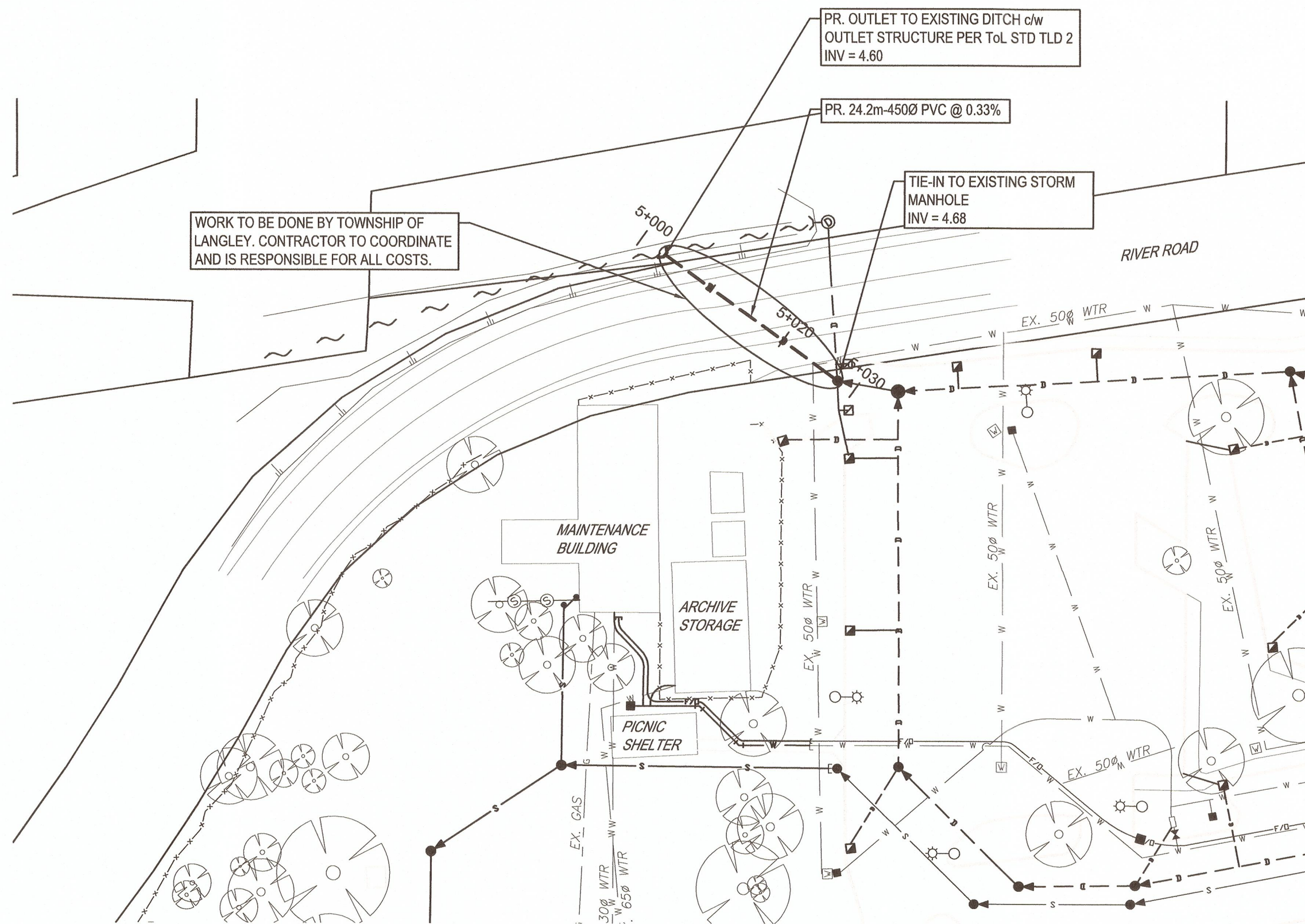
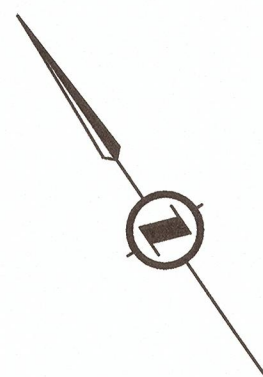




1. CONTRACTOR TO PRE-LOCATE ALL EXISTING UTILITIES AND ADVISE DEPARTMENT REPRESENTATIVE OF ANY CONFLICTS A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.
2. EXISTING WATER SYSTEM TO BE MAINTAINED AND PROTECTED.
3. CONTRACTOR TO COMMISSION, INCLUDING PRESSURE TESTING, FLUSHING, CHLORINATING AND 2 SETS OF WATER SAMPLES.

2017/Aug/15, 5:59pm - scotck PR STW H:\proj\proj\31583 F. Road Hill & E. Langley NHS\02_CADD\02_Drawing\021_Schema\001_Langley\31583-FortLangley-PR2.dwg

PWGSC - A1 - 841X594



NOTES:

1. CONTRACTOR TO PRE-LOCATE ALL EXISTING UTILITIES AND ADVISE DEPARTMENT REPRESENTATIVE OF ANY CONFLICTS A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.



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4		
3	ISSUED FOR TENDER	2017/08/15
2	ISSUED FOR 100% REVIEW	2017/07/27
1	ISSUED FOR 66% REVIEW	2017/05/20
0	ISSUED FOR 33% REVIEW	2017/04/19

Revision/Revisión	Description/Description	Date/Date
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Client/client

PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA

219 - 800 BURRARD STREET
VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet

FORT LANGLEY NHS
EXISTING UTILITY
REHABILITATION

Consultant Signature Only

S. VERKAIK

Designed by/Concept par

S. CLARK

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TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TP50C

TOM DUNPHY

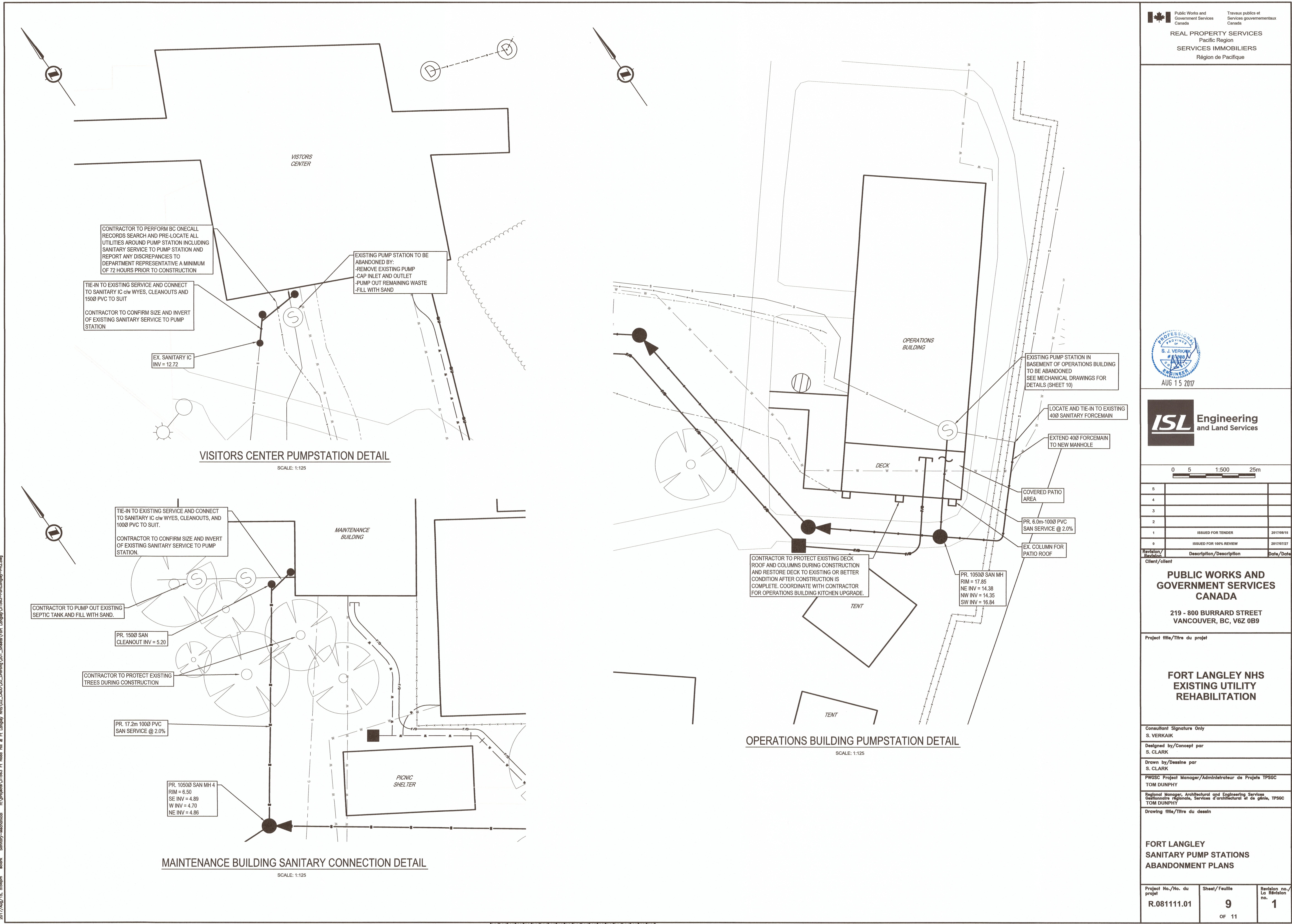
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FORT LANGLEY
WEST SIDE
PROPOSED STORM

Project No./No. du
projet
R.081111.01

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OF 11

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La Révision
no.
3







Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique



S. J. VERKAIK
PROFESSIONAL
ENGINEER
AUG 15 2017



ISL Engineering
and Land Services

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3		
2		
1	ISSUED FOR TENDER	2017/08/15
0	ISSUED FOR 100% REVIEW	2017/07/27
Revision/	Description/Description	Date/Date
Client/client		

**PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA**

219 - 800 BURNARD STREET
VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet

**FORT LANGLEY NHS
EXISTING UTILITY
REHABILITATION**

Consultant Signature Only
S. VERKAIK

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Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
TOM DUNPHY

Drawing title/Titre du dessin

**FORT LANGLEY
SANITARY PUMP STATIONS
ABANDONMENT PLANS**

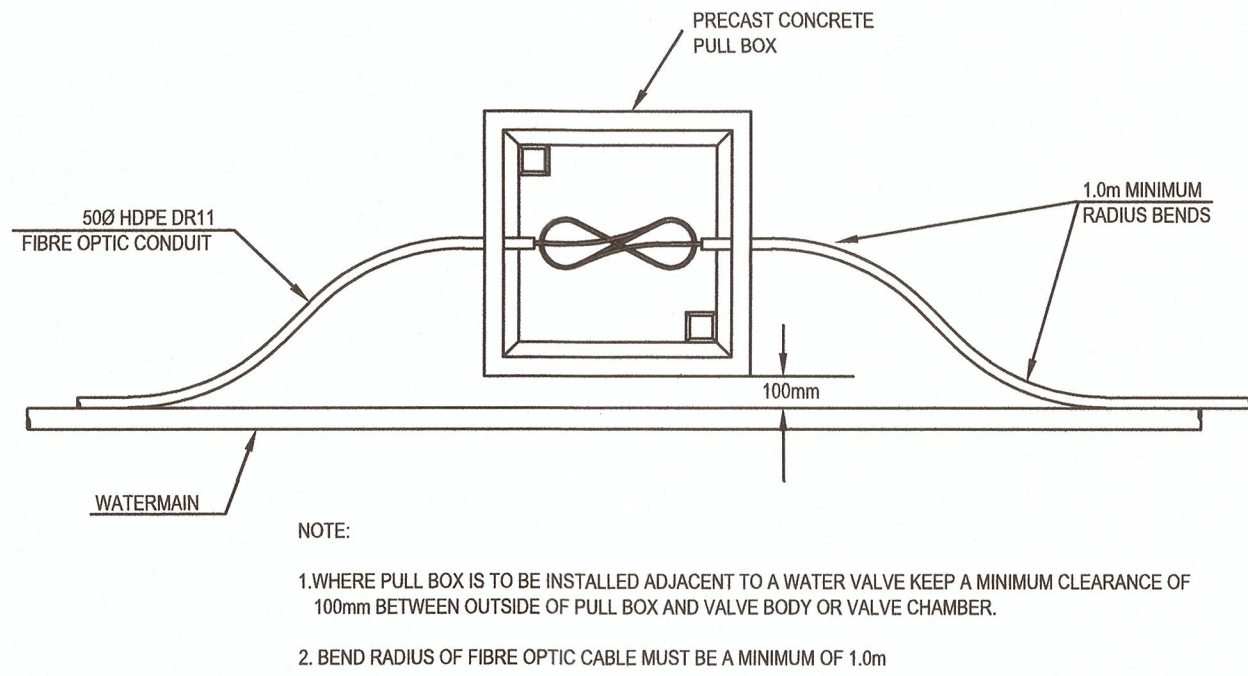
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R.081111.01

Sheet/Feuille
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OF 11

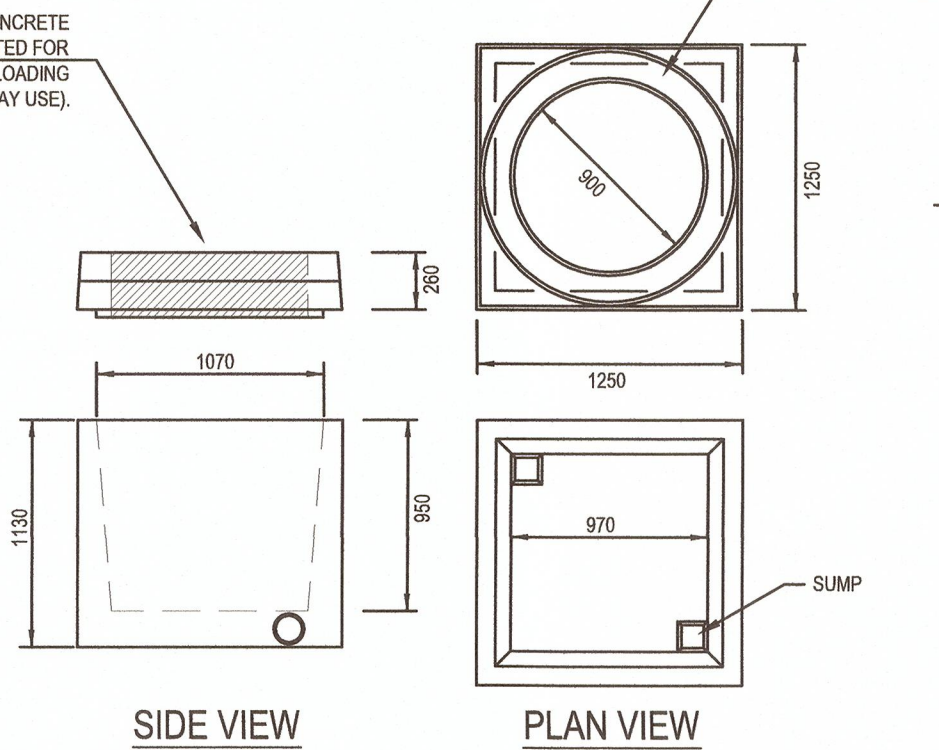
Revision no./
La Révision
no.
1

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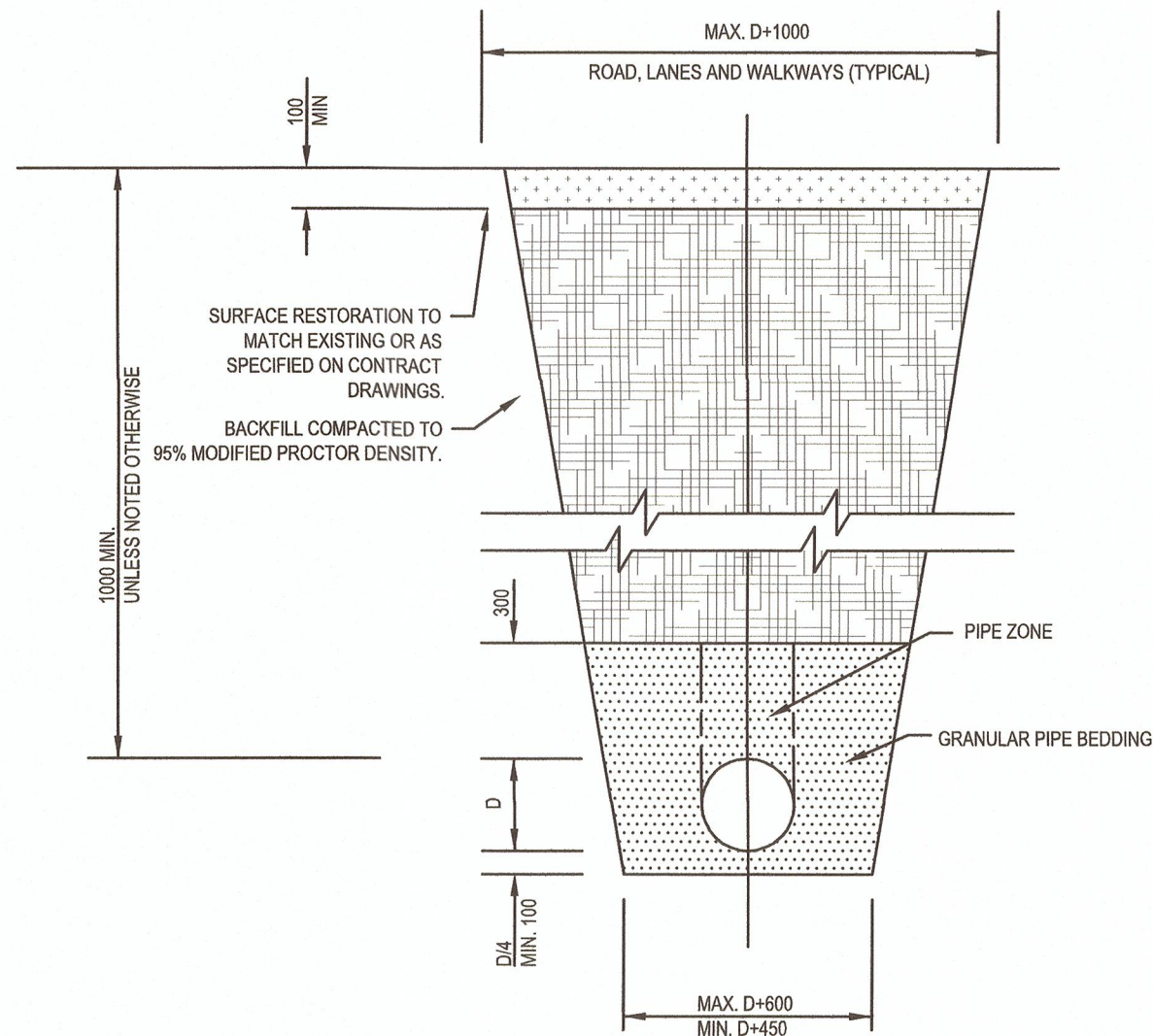




PULL BOX INSTALLATION DETAIL

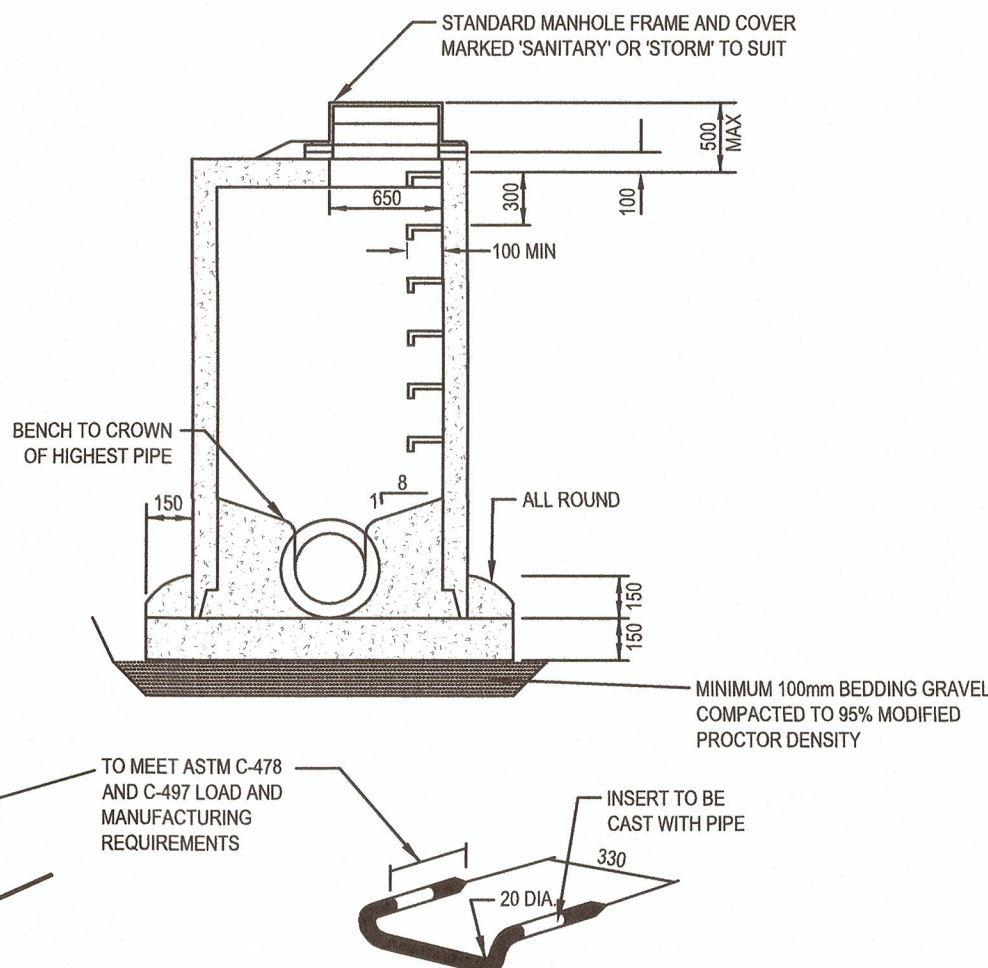


FIBRE OPTIC PULL BOX DETAIL



UTILITY TRENCH DETAIL

NOTE: 1. COMPLY WITH ALL REQUIREMENTS OF WORK SAFE BC.

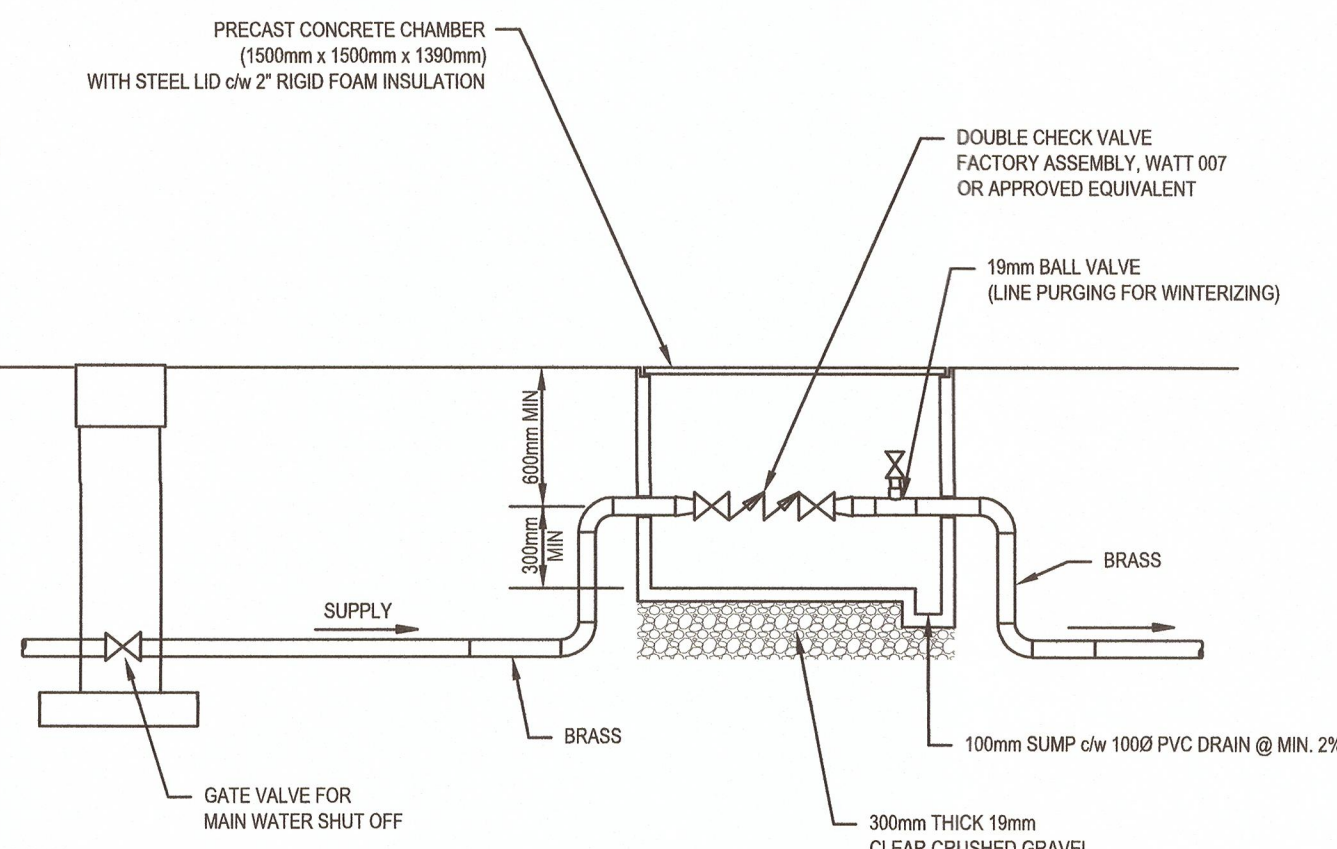


STANDARD MANHOLE DETAIL NOTES

1. DETAILS ARE DRAWN FOR PRECAST RISERS ON CAST-IN-PLACE BASE. PRECAST BASES APPROVED BY DEPARTMENT REPRESENTATIVE ARE ACCEPTABLE
2. MAXIMUM DEPTH TO FIRST RING IS 500mm. WHEN HAND HOLD IS INSTALLED BETWEEN TOP AND FIRST RING, MAXIMUM DEPTH MAY BE INCREASED TO 600mm
3. FOR MANHOLES OVER 1200mm DIA. BASE THICKNESS TO BE 200mm.
4. REFER TO STANDARD MANHOLE CONNECTION DETAILS
5. REFER TO CONTRACT DOCUMENTS FOR DETAILED SPECIFICATIONS.

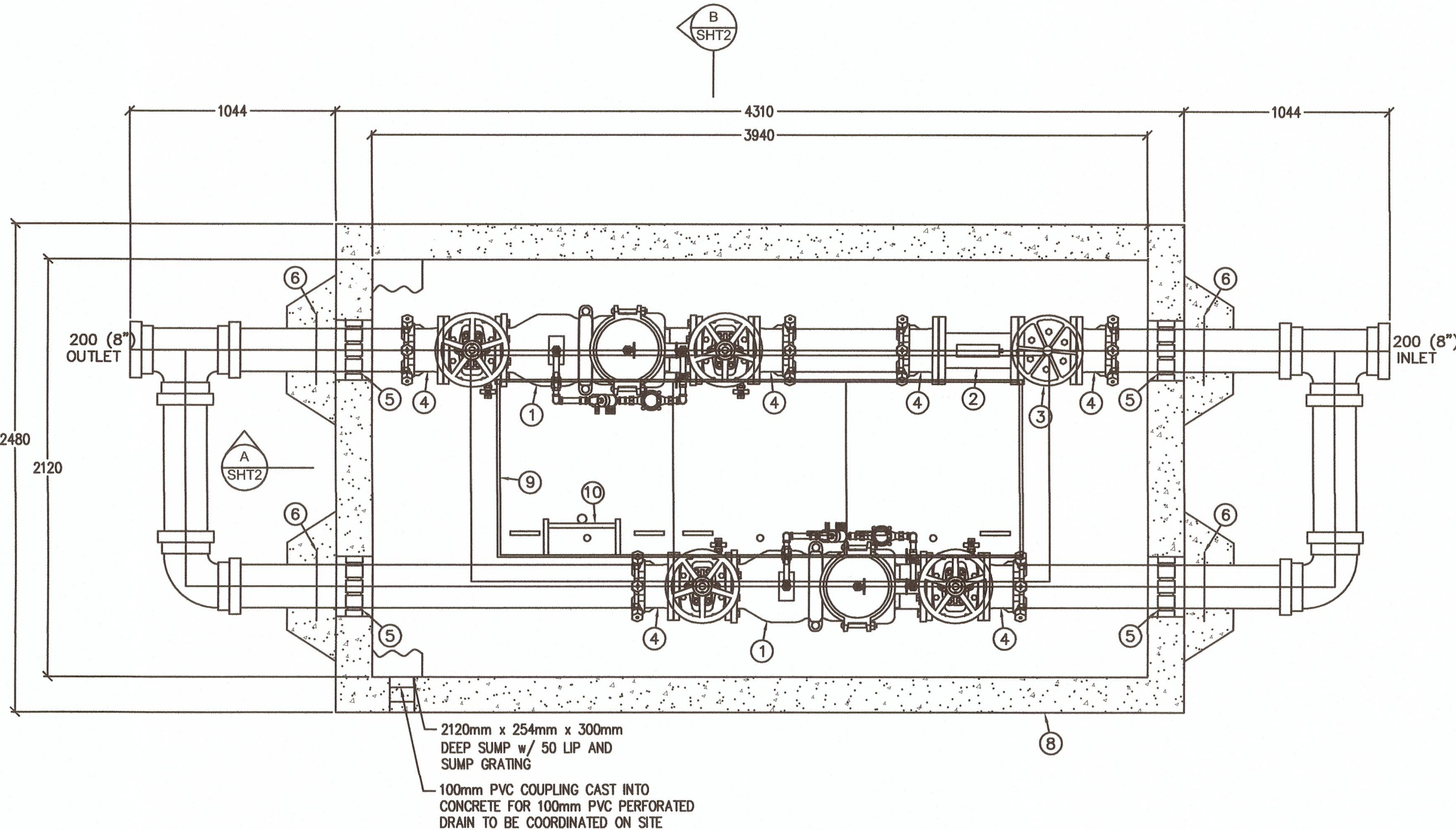
STANDARD MANHOLE DETAIL

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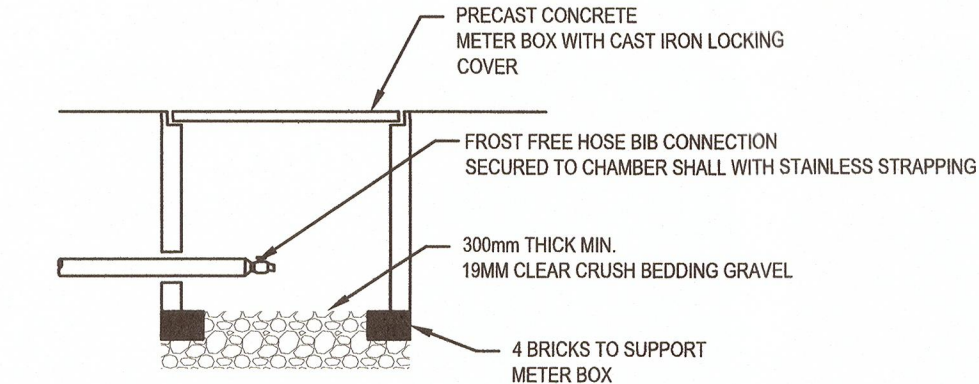
DOUBLE CHECK VALVE ASSEMBLIES
(50mm OR GREATER)

SCALE: NTS



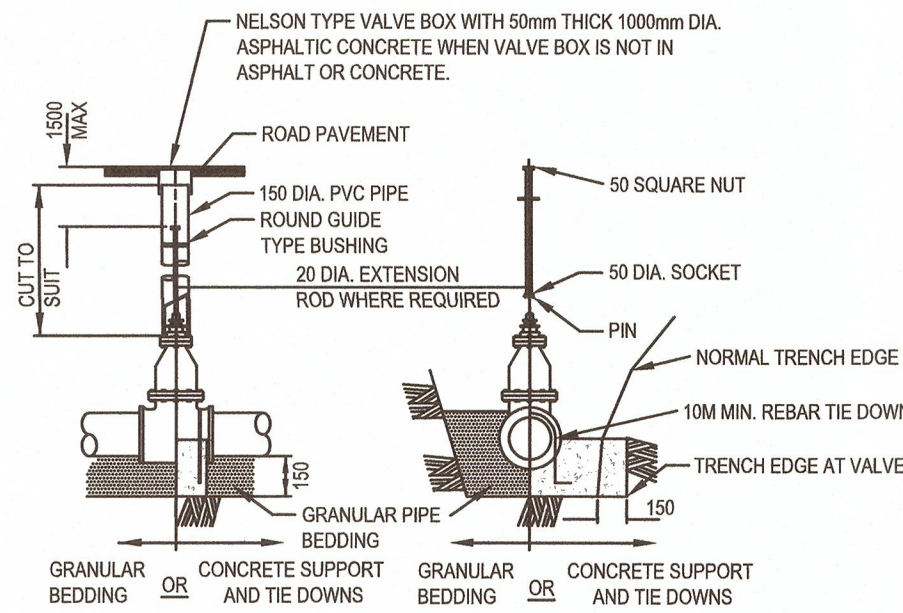
WATER METER DETAIL

SCALE: NTS



HOSE CONNECTION DETAIL

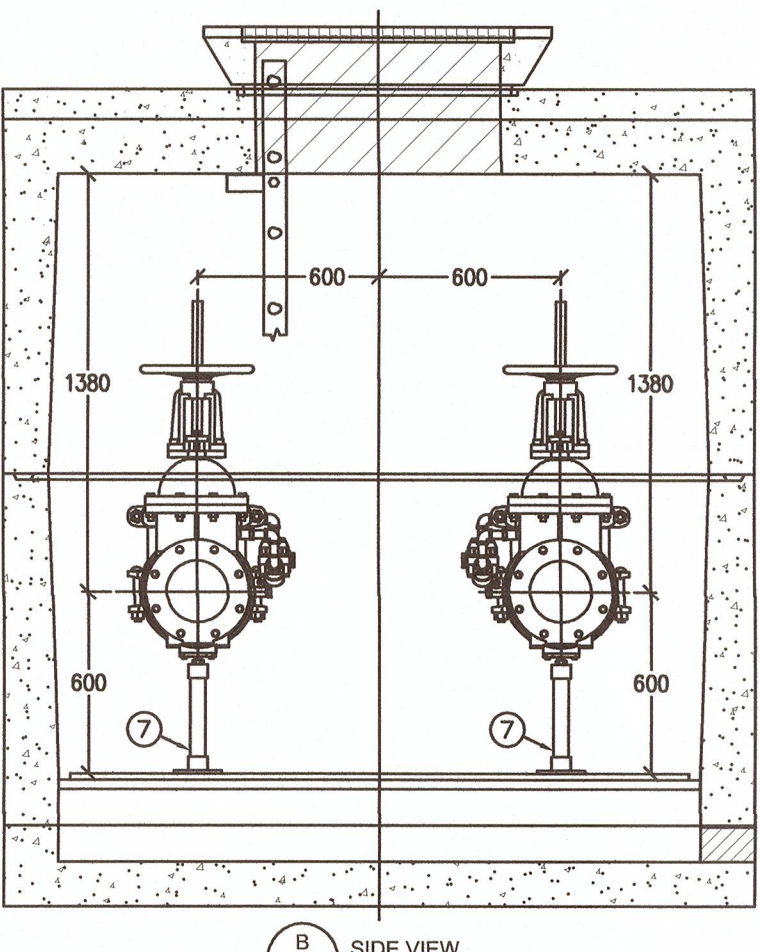
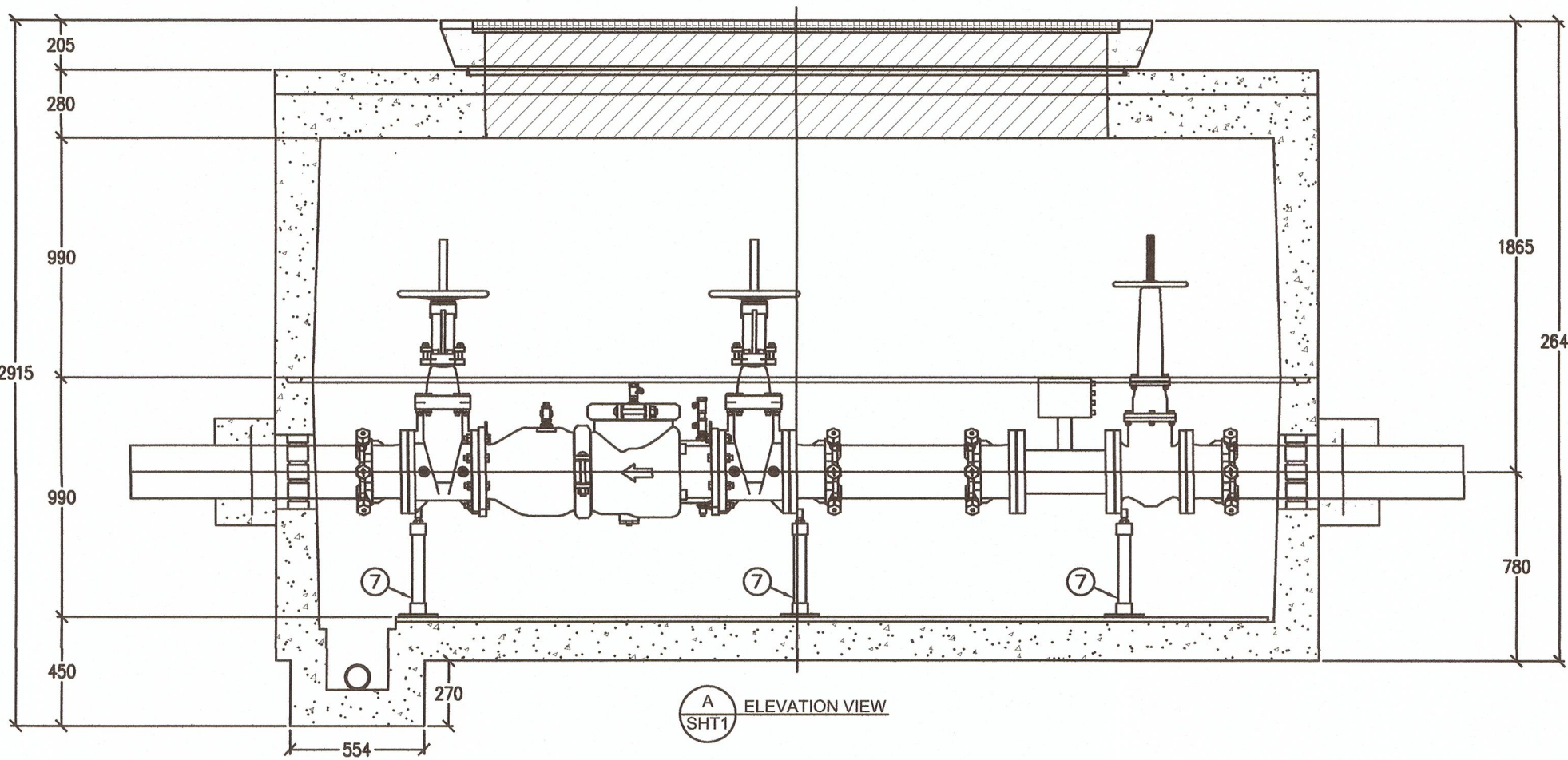
SCALE: NTS



GATE VALVE INSTALLATION DETAIL

SCALE: NTS

MATERIALS LIST		
ITEM	QTY	DESCRIPTION
1	2	200 (8") WILKINS 350ADA DCA w/ OS&Y Gate Valves, Tottelate Meter and Supervisory Switches
2	1	200 (8") BADGER W5000 Mogmeter - Flg x Flg Steel Spool Provided
3	1	200 (8") MUELLER A2365 OS&Y Gate Valve
4	6	200 (8") Restrained Flange Adapter
5	4	200 (8") LINK SEAL Assembly
6	4	200 (8") UFR Restraint
7	5	200 (8") CWS Adj. Galv. Steel Pipe Support
8	1	AE #4212 Precast Concrete Chamber c/w White Interior, Black Exterior and Cored Holes
9	1	AE #R32 Concrete Collar w/ Locking Galv. Steel Lids and RR Holes
10	1	COAST WATER SYSTEMS Aluminum Ladder c/w Safety Post - Shipped Loose Installed By Others



Revision/	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	2017/08/15
2	ISSUED FOR 100% REVIEW	2017/07/27
1	ISSUED FOR 60% REVIEW	2017/05/30
0	ISSUED FOR 35% REVIEW	2017/04/10

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
219 - 800 BARRARD STREET
VANCOUVER, BC, V6Z 0B9

FORT LANGLEY NHS
EXISTING UTILITY
REHABILITATION

Consultant Signature Only S. VERKAIK
Designed by/Concept par S. CLARK
Drawn by/Dessiné par S. CLARK
PWGSC Project Manager/Administrateur de Projets TPSGC TOM DUNPHY
Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architecture et de génie, TPSGC TOM DUNPHY
Drawing title/Titre du dessin

STANDARD DETAILS

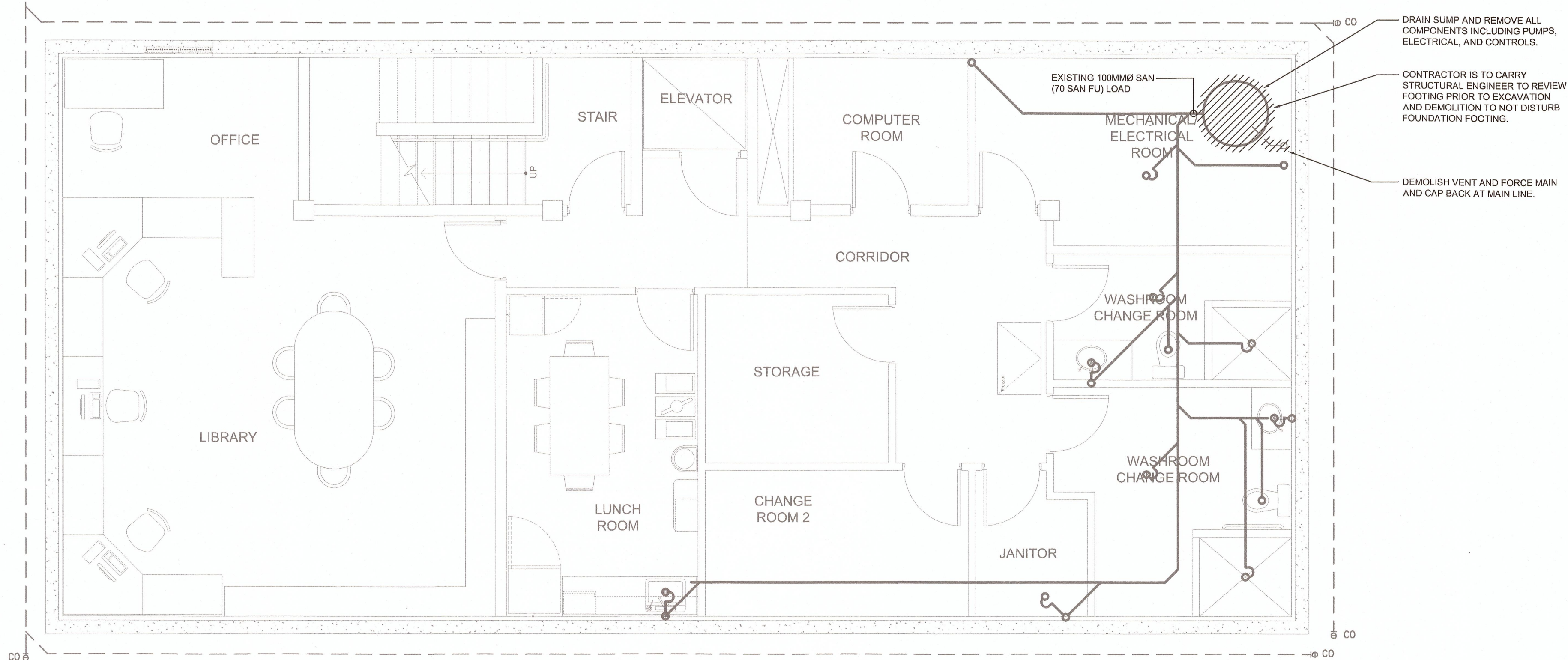
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.081111.01	10	3
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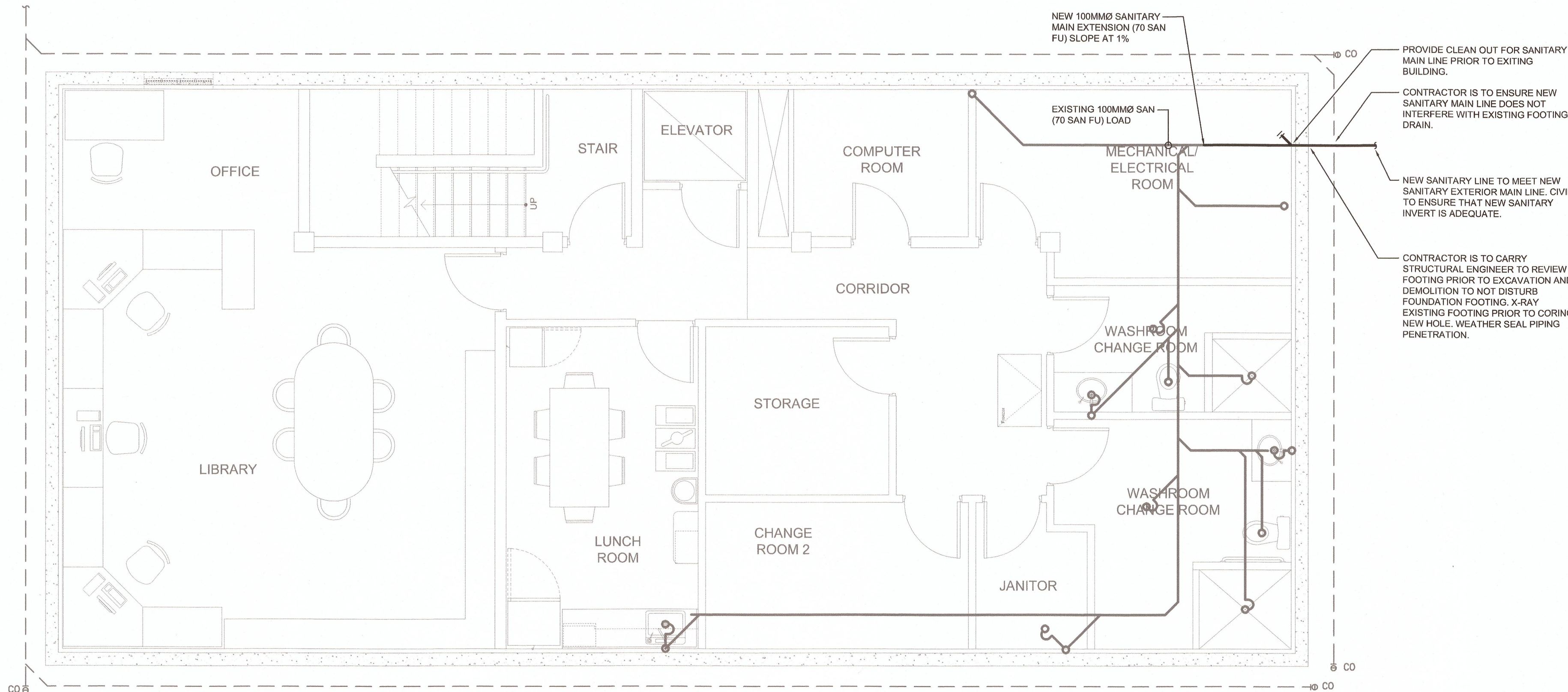
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R.081111.01-100

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0 10 20 30 40 50 60 70 80 90 100mm



1 BASEMENT LEVEL DEMO PLAN
SCALE: 1:50



2 BASEMENT LEVEL NEW PLAN
SCALE: 1:50

MECHANICAL GENERAL NOTES

- IN GENERAL, PROJECT INTENT IS TO REMOVE EXISTING SUMP PUMP AND FEED SANITARY BUILDING MAIN TO NEW CIVIL GRAVITY FED LINE. CONTRACTOR IS TO ALLOW FOR TO REMOVAL OF ALL COMPONENTS OF THE SUMP. CONTRACTOR IS TO HIRE STRUCTURAL ENGINEER TO REVIEW ON SITE CONDITIONS PRIOR TO EXCAVATION OR DEMOLITION OF SUMP BODY TO AVOID AFFECT ON EXISTING BUILDING FOOTINGS. CONTRACTOR IS TO RUN NEW SANITARY LINE VIA GRAVITY TO NEW CIVIL MAIN. CONTRACTOR IS TO PROVIDE BEDDING TO MATCH CURRENT SOIL PROFILE. FLOOR OF MECHANICAL ROOM IS TO BE FINISHED TO MATCH EXISTING.
- MAGNITUDE OF SCOPE OF WORK ON THIS PROJECT SHALL NOT BE BASED SOLELY ON PREPARED CONSTRUCTION DOCUMENTS (DRAWINGS AND SPECIFICATIONS), AS THESE DOCUMENTS ARE OF A DIAGRAMMATIC AND GENERALLY DESCRIPTIVE NATURE, AND LIMITED IN THE AMOUNT OF DETAILS SPECIFIC TO EXISTING SITE CONDITIONS. THEREFORE A "SITE WALK-THRU" IS STRICTLY "MANDATORY", PRIOR TO PRICING. FURTHER SITE VERIFICATION WILL BE ALSO REQUIRED UPON CONTRACT AWARD.
- ALLOW IN YOUR PRICING MODIFYING THE ROUTING OF PIPING AS REQUIRED TO SUIT THE SITE CONDITIONS WITHOUT EXTRA COST TO THE Departmental Representative AT A LATER TIME. ROUTING ON DRAWINGS IS DIAGRAMMATIC AND ONLY SUGGESTED ROUTING.
- THE DESIGN & INSTALLATION OF ALL BUILDING PIPING SHALL COMPLY WITH THE MECHANICAL DRAWINGS, SPECIFICATIONS AND BCBC 2012.
- CONTRACTOR TO PERFORM HYDROSTATIC TESTING ON ALL PIPING AT 1.5 TIMES THE MAXIMUM OPERATING PRESSURE.
- CONTRACTOR IS TO MAKE GOOD ALL FINISHES TO MATCH EXISTING.

DEMOLITION WORK:

- DURING REMOVAL OF ITEMS AS INDICATED, CAUTION SHOULD BE USED TO PREVENT DAMAGE TO ANY EQUIPMENT HAVING SALVAGE VALUE. ALL REUSABLE SALVAGED MATERIAL SHALL REMAIN THE PROPERTY OF THE Departmental Representative AND BE RETAINED FOR THEIR INSPECTION. ONLY ITEMS AGREED BY THE Departmental Representative SHALL BE DISPOSED OF BY THE CONTRACTOR.
- IF ASBESTOS IS DISCOVERED ON THE PREMISES, Departmental Representative SHALL BE NOTIFIED AND ALL WORK SHALL CEASE IMMEDIATELY UNTIL ASBESTOS ABATEMENT WORKS ARE COMPLETED.
- CONTRACTOR IS TO ALLOW FOR A STRUCTURAL ENGINEER PRIOR TO EXCAVATION OR DEMOLITION TO ENSURE EXISTING BUILDING FOOTINGS ARE NOT AFFECTED.

ELECTRICAL WORK:

- CONTRACTOR TO ALLOW FOR THE ELECTRICAL DECOMMISSIONING OF SUMP PUMP AND THE DEMOLITION OF ELECTRICAL FEED BACK TO JUNCTION BOX.
- CONTRACTOR TO ARRANGE FOR AND ALLOW FOR COSTS OF ALL PERMITS AND INSPECTIONS.
- ALL ELECTRICAL WORK TO BE COMPLETED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE.

LEGEND

DESCRIPTION	NAME	NEW	EXISTING
SANITARY LINE	SAN		
FOOTING DRAIN	FTG		
DEMOLITION HATCH	DEMO		

SYMBOLS, FITTINGS AND VALVES

DESCRIPTION	NEW	EXISTING
DIRECTION OF FLOW		
PIPE CAP OFF		
PIPE DROP		
PIPE RISE		
PIPE TEE UP		
PIPE TEE DOWN		
CLEAN OUT		
PIPE BREAK		



SEP 05 2017

Revision/Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2017/08/30
2	ISSUED FOR TENDER	2017/08/16

**PUBLIC WORKS &
GOVERNMENT SERVICES
CANADA (PWGSC)**

219-800 BURNARD STREET
VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet

**FORT LANGLEY NHS
UTILITY IMPROVEMENTS**

Consultant Signature Only
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Designed by/Concept par
B.CHAN

Drawn by/Dessiné par
N.YOUNG

PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
TOM DUNPHY

Drawing title/Titre du dessin

MECHANICAL INTERIOR PLAN

Project No./No. du
projet
R.081111.01

Sheet/Fauille
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OF 11

Revision no./
La Révision
no.
1