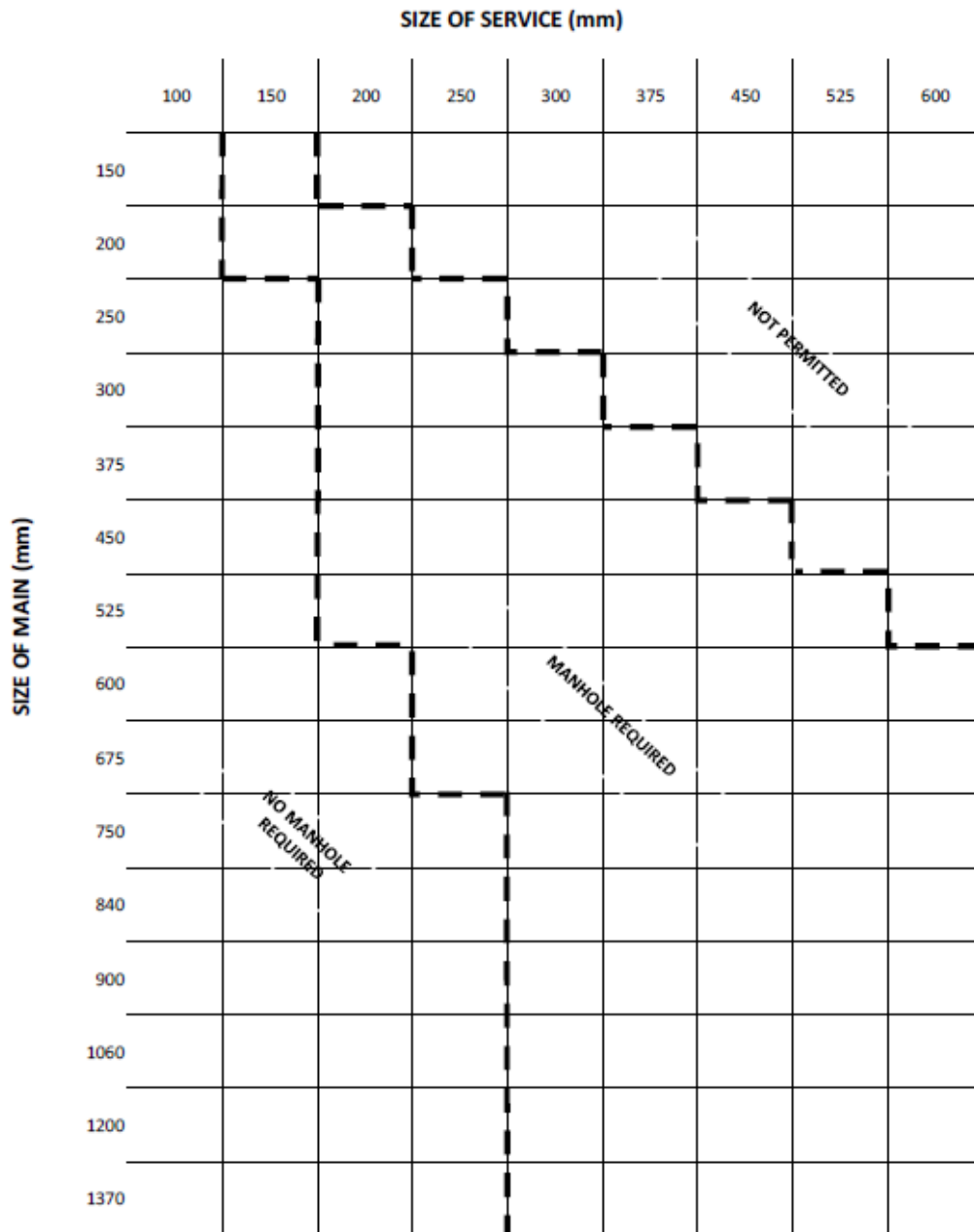


BL11913 replaced SS-S50

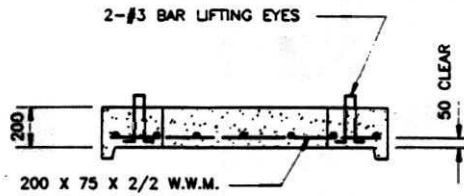
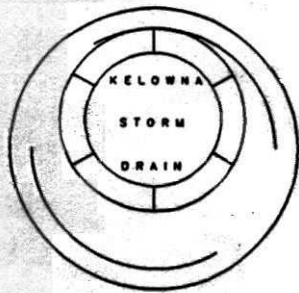
STANDARD DETAIL DRAWINGS



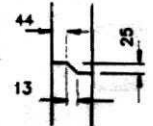
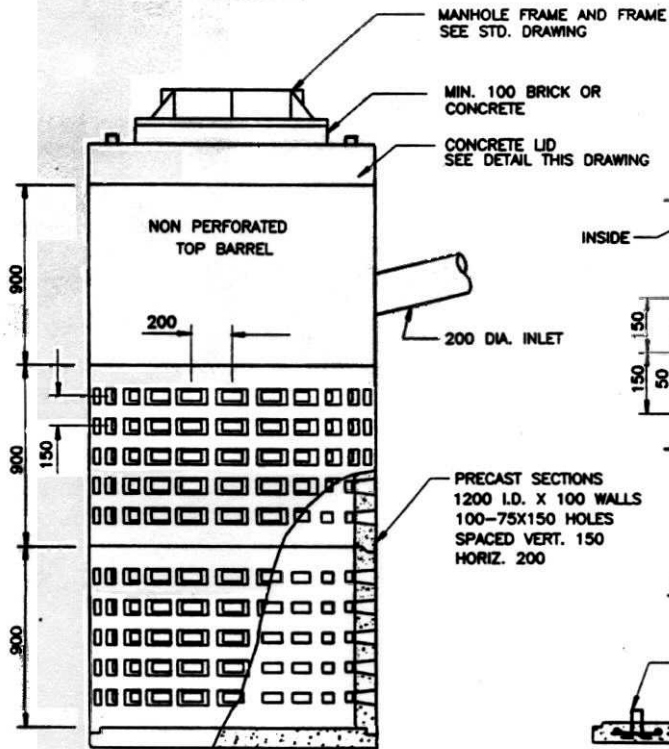
MANHOLE REQUIREMENT FOR SERVICES

SS-S50

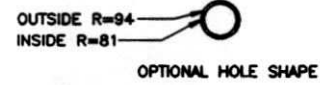
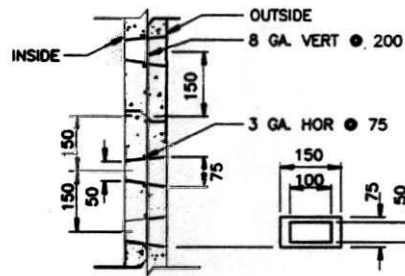
STANDARD DETAIL DRAWINGS



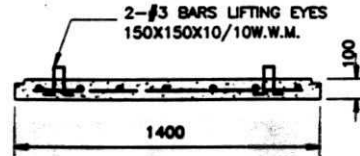
CONCRETE LID DETAIL



JOINT DETAIL



SECTION-BARREL



BOTTOM SLAB DETAIL

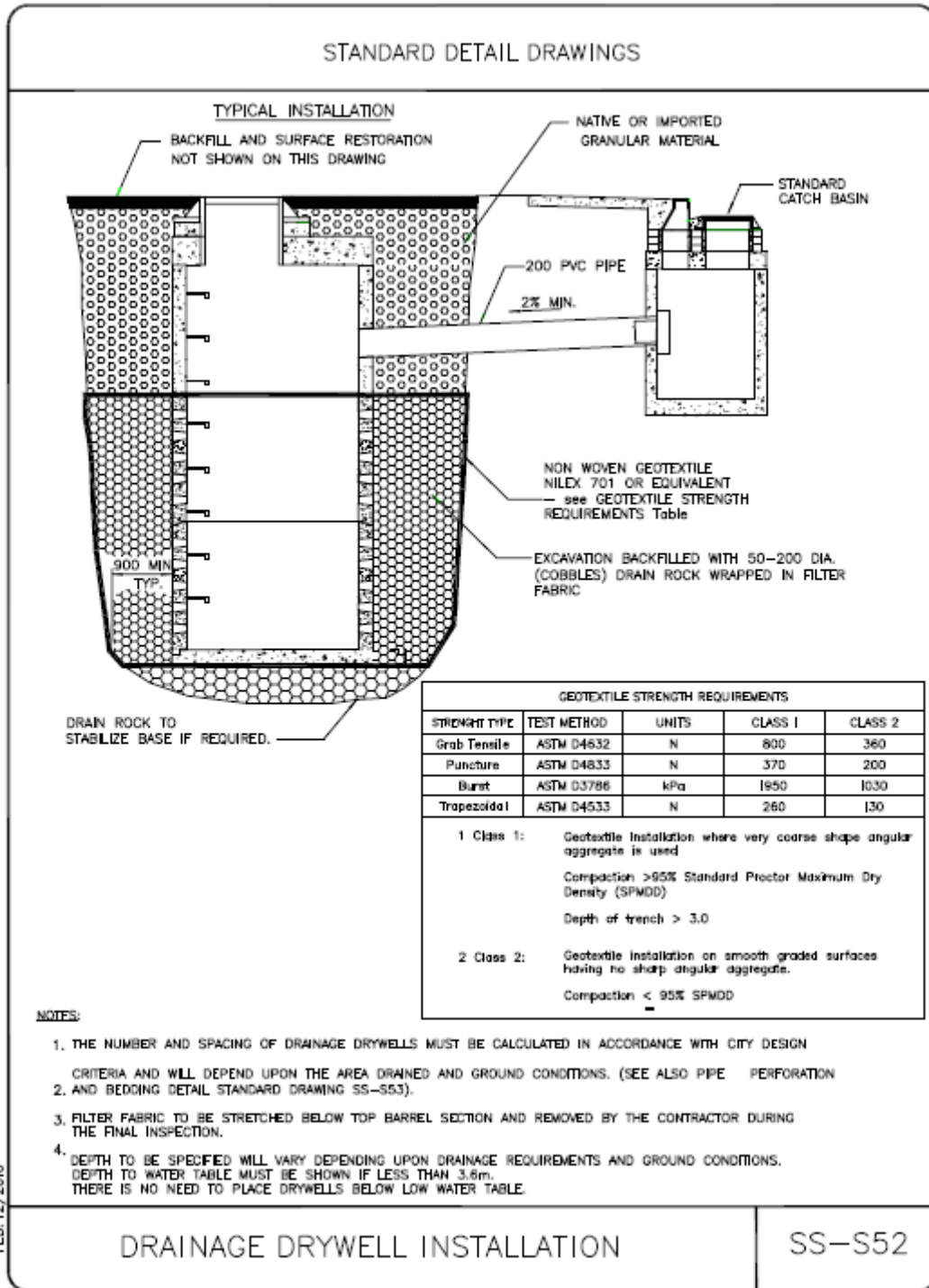
- NOTES:
1. LADDER RUNGS ARE REQUIRED.
 2. SEE MANHOLE STD. DWG. FOR DETAILS.
 3. SEE DRAINAGE DRYWELL INSTALLATION STANDARD FOR DETAILS.
 4. THIS STANDARD IS ALLOWED ONLY IN ACCORDANCE WITH THE STORM WATER POLICY AND DESIGN MANUAL.

NOV 2/88

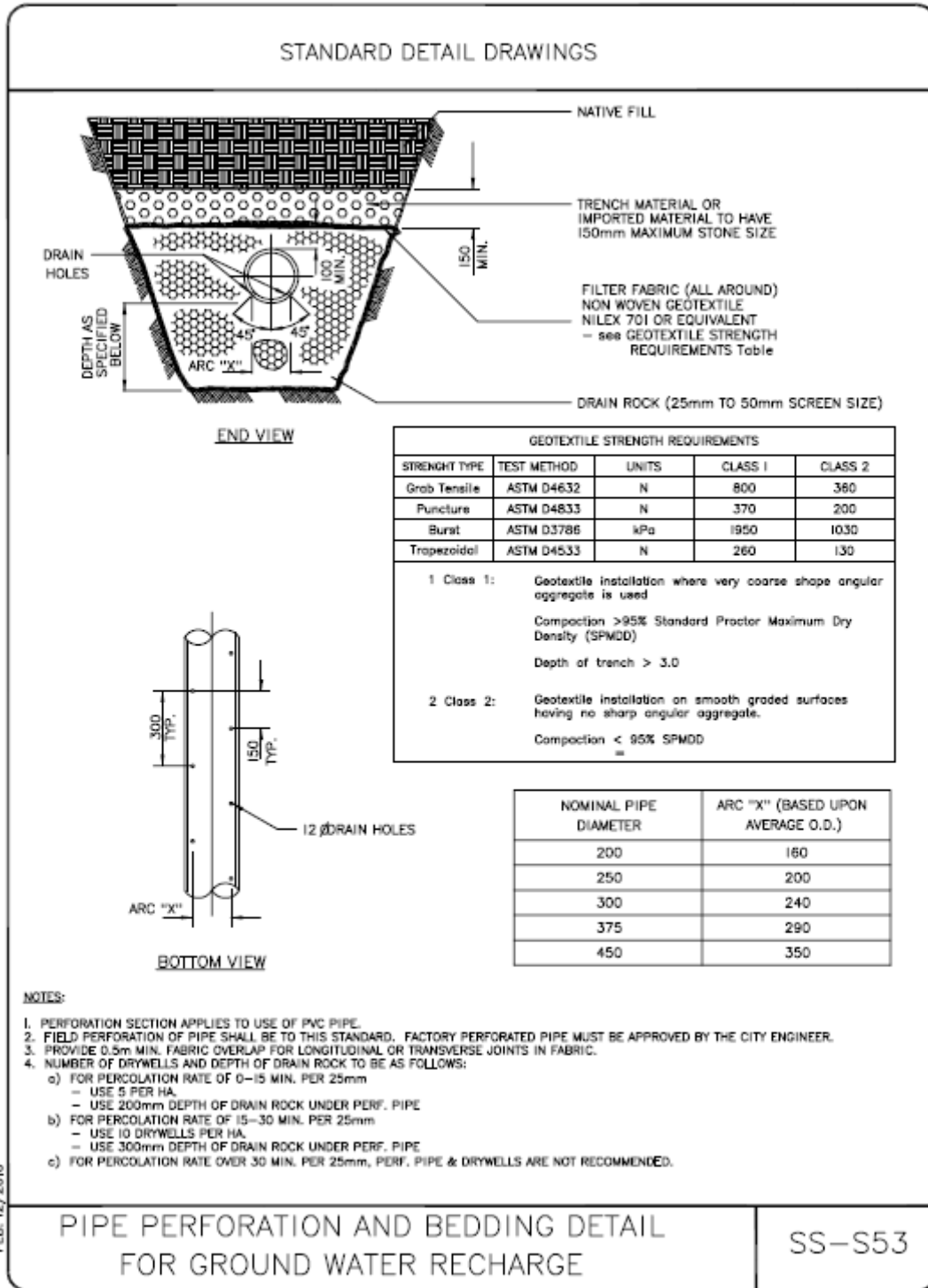
DRAINAGE DRYWELL

SS-S51

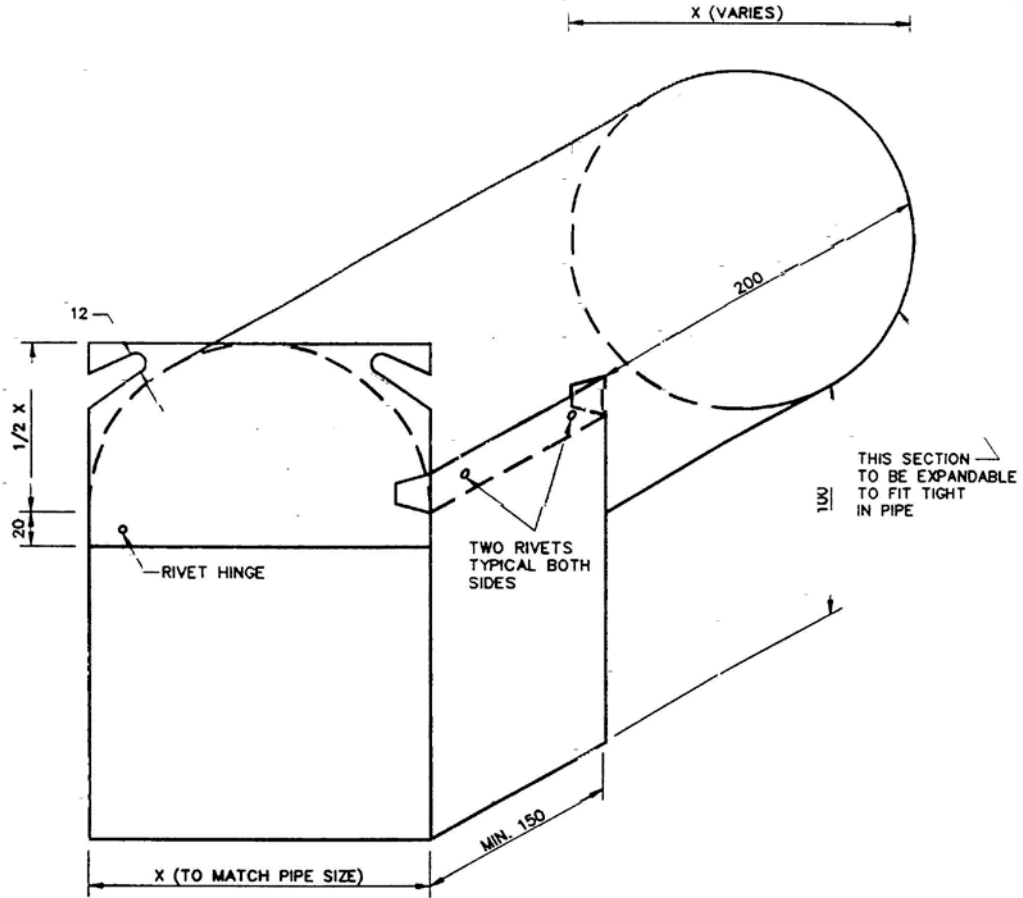
BL10640 added a new SS-S52:



BL10640 added a new SS-S53:



STANDARD DETAIL DRAWINGS



NOTES:

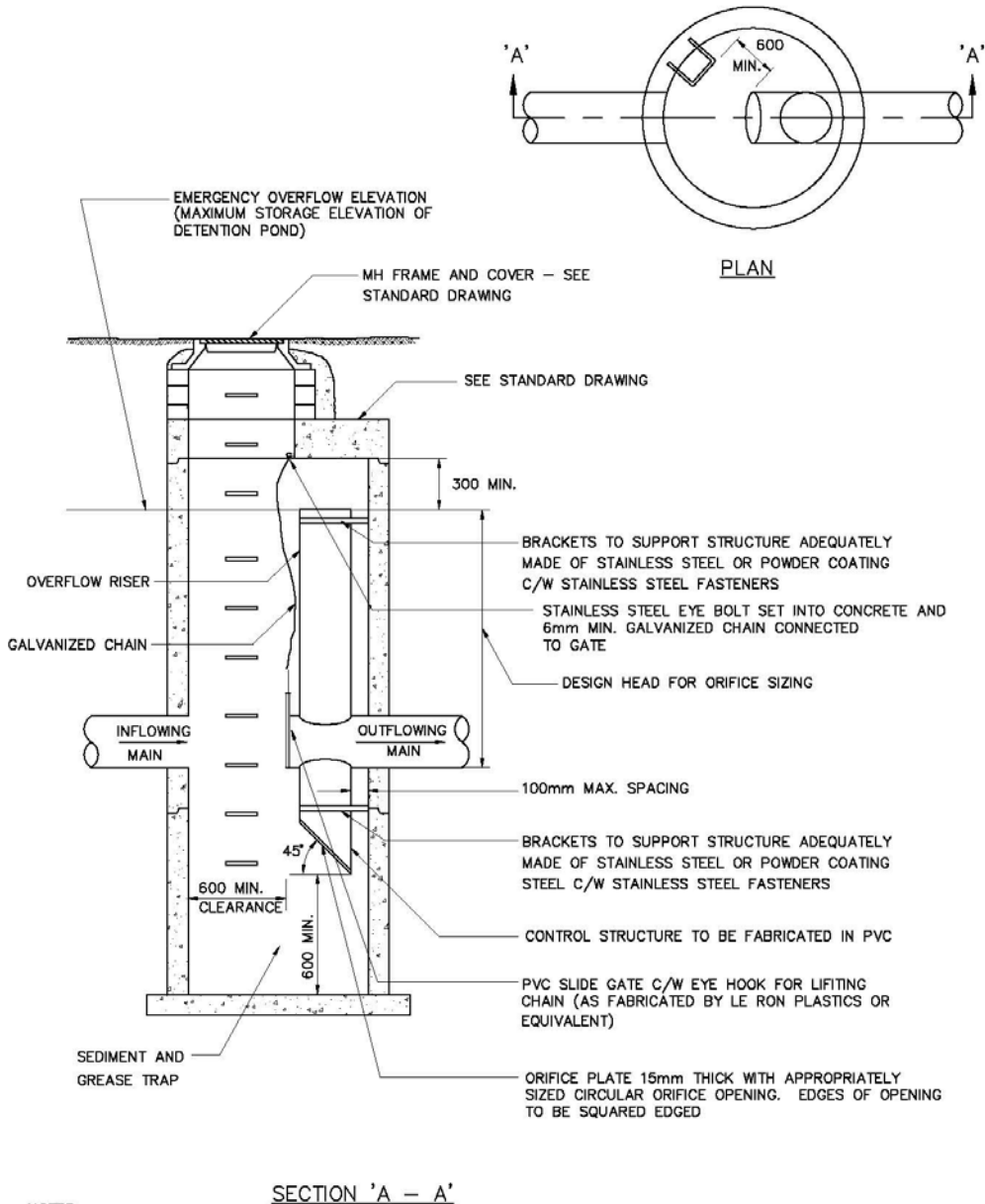
1. SEWER TRAPS SHALL BE MANUFACTURED FROM 16 GAUGE ALUMINUM.
2. BLIND RIVETS ONLY SHALL BE USED. RIVETS SHALL BE ALUMINUM EQUAL TO POP #AD64ABS.

NOV. 2/98

CATCH BASIN TRAPPING HOOD

SS-S54

STANDARD DETAIL DRAWINGS



NOTES:
1. ALL DIMENSIONS IN MILLIMETRES.

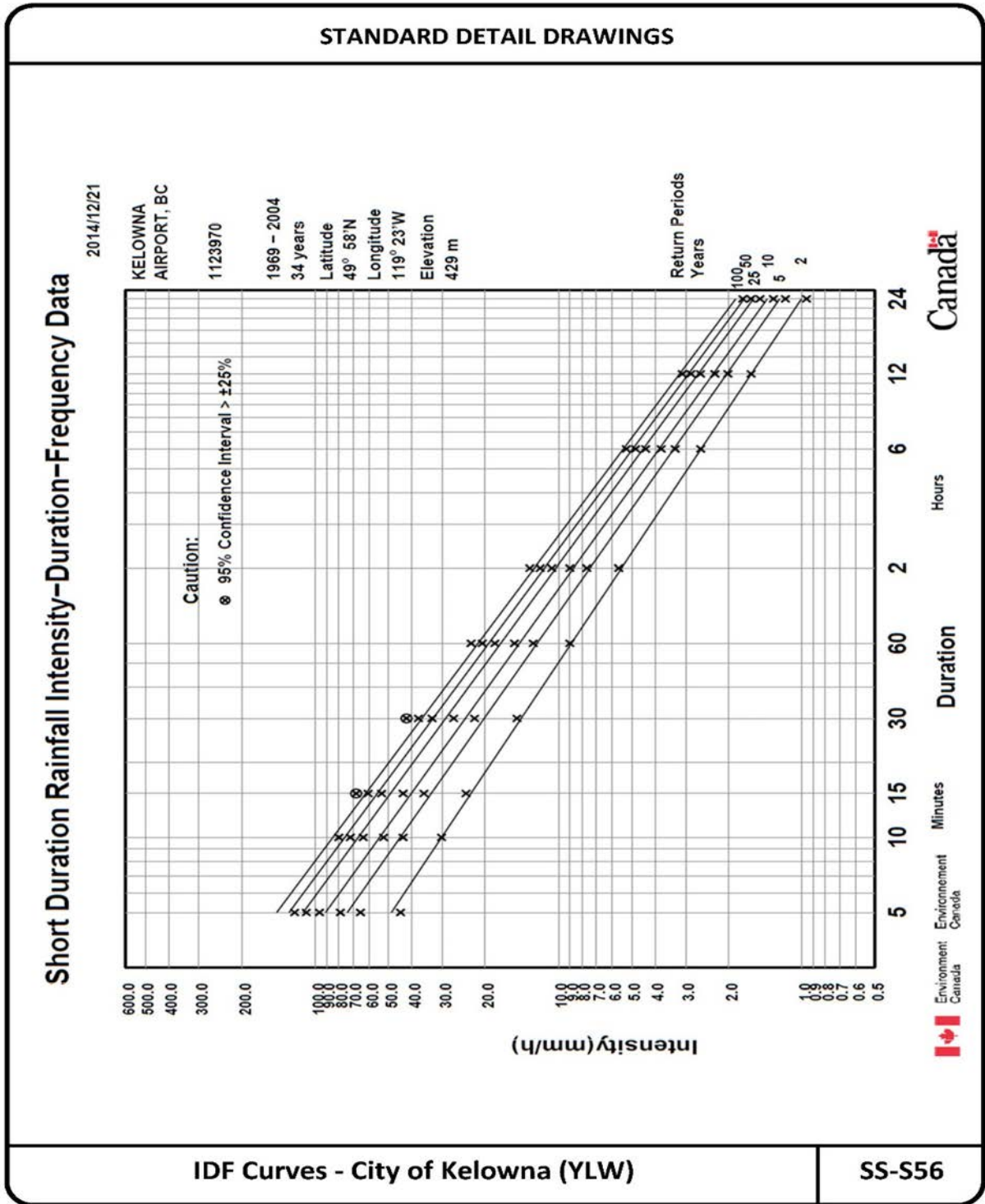
FLOW CONTROL CHAMBER
(WITH SEDIMENT & GREASE TRAP)

SS-S55

JULY 25/18

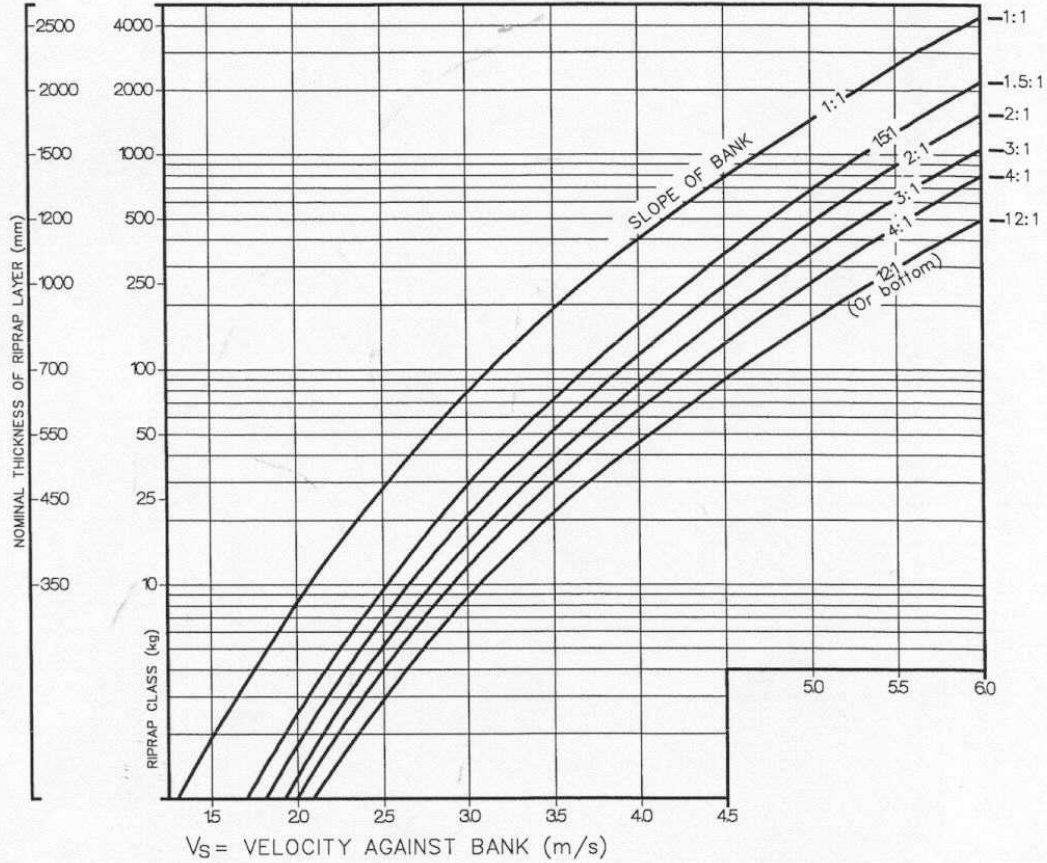
P:\DRAFTING\Standard Drawings\City_of_Kelowna\Utilities\Drainage and Sanitary\Proposed_for_Council\SS-S55.dwg

BL10640 added a new SS-S56:
 BL11913 replaced SS-S56



BL10640 added a new SS-S57:

STANDARD DETAIL DRAWINGS



SIZE OF ROCK AND THICKNESS OF PROTECTION BLANKET THAT WILL RESIST DISPLACEMENT FOR VARIOUS VELOCITIES AND BANKSIDE SLOPES.

Notes:

- Adapted from report of Sub-committee on slope protection, Am. Soc. Civil Engineers Proc. June 1948.
- Density of stone assumed at 2,640 kg/m³.
- Enter graph at known velocity to intersection with desired slope curve. Move horizontally to required riprap class and thickness.
- V_M = mean stream velocity.
- For parallel flow along tangent bank; $V_S = 2/3 V_M$
- For impinging flow against curved bank; $V_S = 4/3 V_M$
- For direct impingement on the bank; $V_S = 2V_M$
- The riprap class No. is the mass (kg) of the 50% rock size (i.e., at least half of the riprap must be heavier than its class mass).
- Do not interpolate between riprap classes. Use the next highest class.

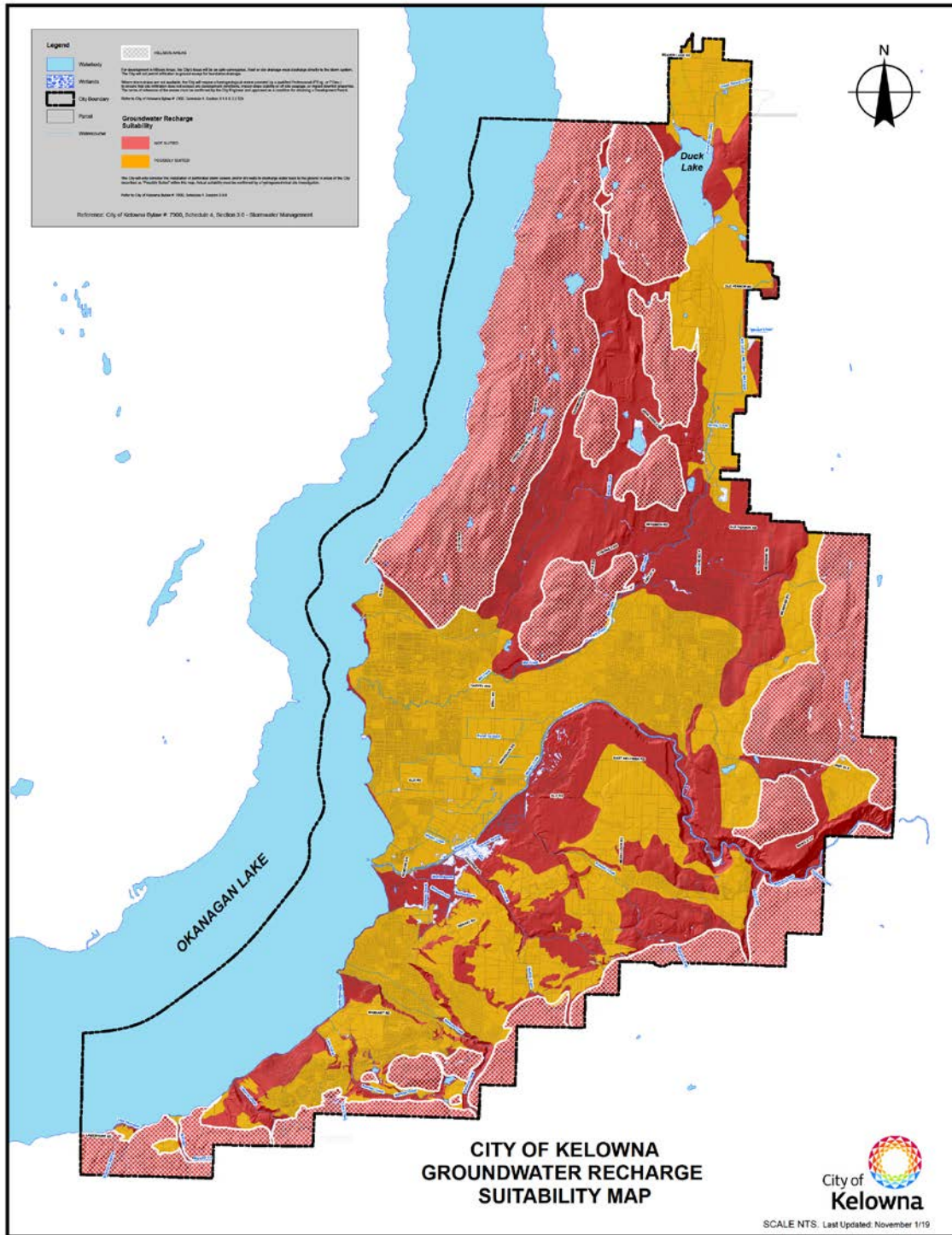
H:\WU\DRAFTING\STD-DWG\SS-S57

RIPRAP DESIGN CHART

SS-S57

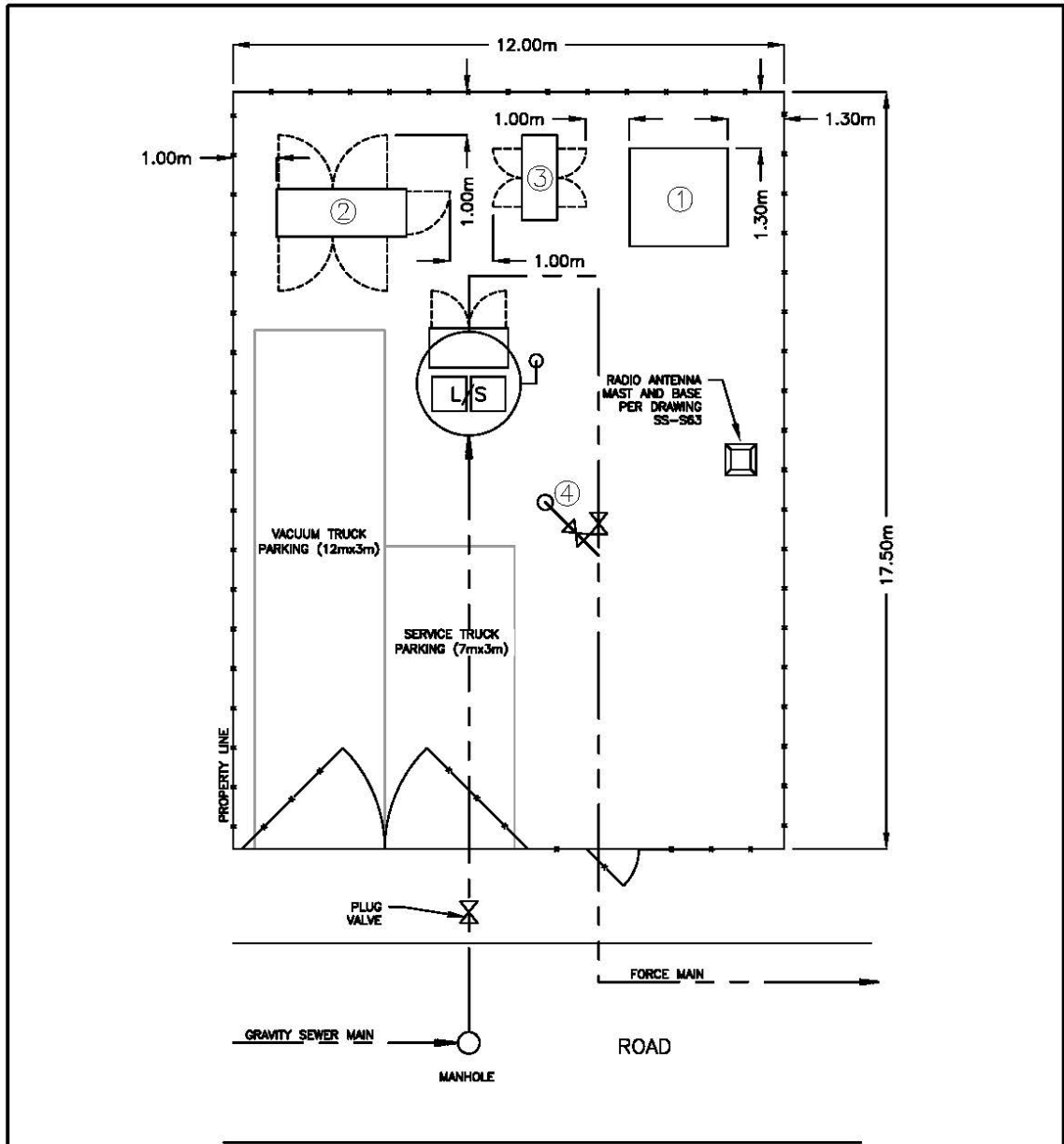
DATE: MAY08/02

BL11913 added SS-S58 – Groundwater Recharge Suitability Map



BL12066 added:
 SS-S59 - Typical Lift Station Layout

BYLAW NOTE



NOTES:

- 1.) IF PERMANENT GENSET IS NOT REQUIRED, PROVIDE A LOCATION FOR A PORTABLE GENSET.
- 2.) CONDUIT FROM KIOSK TO PROPERTY LINE REQUIRED FOR FUTURE FIBRE CONNECTION. TERMINATE IN JUNCTION BOX.
- 3.) CHEMICAL FEED CONDUIT TO BE STUBBED FOR FUTURE ODOUR CONTROL BUILDING.
- 4.) OFF STREET PARKING TO ACCOMMODATE A VACUUM TRUCK (HSU) AND FULL SIZE PICKUP TRUCK SIMULTANEOUSLY.
- 5.) ANTENNA MAST LOCATION TO BE DETERMINED BASED ON SITE CONDITIONS.
- 6.) ENTIRE SITE TO BE PAVED AND FENCED c/w VEHICLE ACCESS GATES AND MAN GATE.
- 7.) IF ODOUR CONTROL BUILDING IS REQUIRED, AN ADDITIONAL 13m x 13m AREA MAY BE REQUIRED.
- 8.) CONCRETE BASES FOR TRANSFORMER, ELECTRICAL KIOSK AND GENSET TO BE 200mm ABOVE GRADE.

LEGEND

- ① TRANSFORMER
- ② ELECTRICAL KIOSK
- ③ GENSET
- ④ PIGGING PORT PER DRAWING SS-582

STANDARD
 DETAIL
 DRAWING

DATE:
 05/22/20
 SCALE:
 NTS

TYPICAL LIFT STATION
 SITE LAYOUT

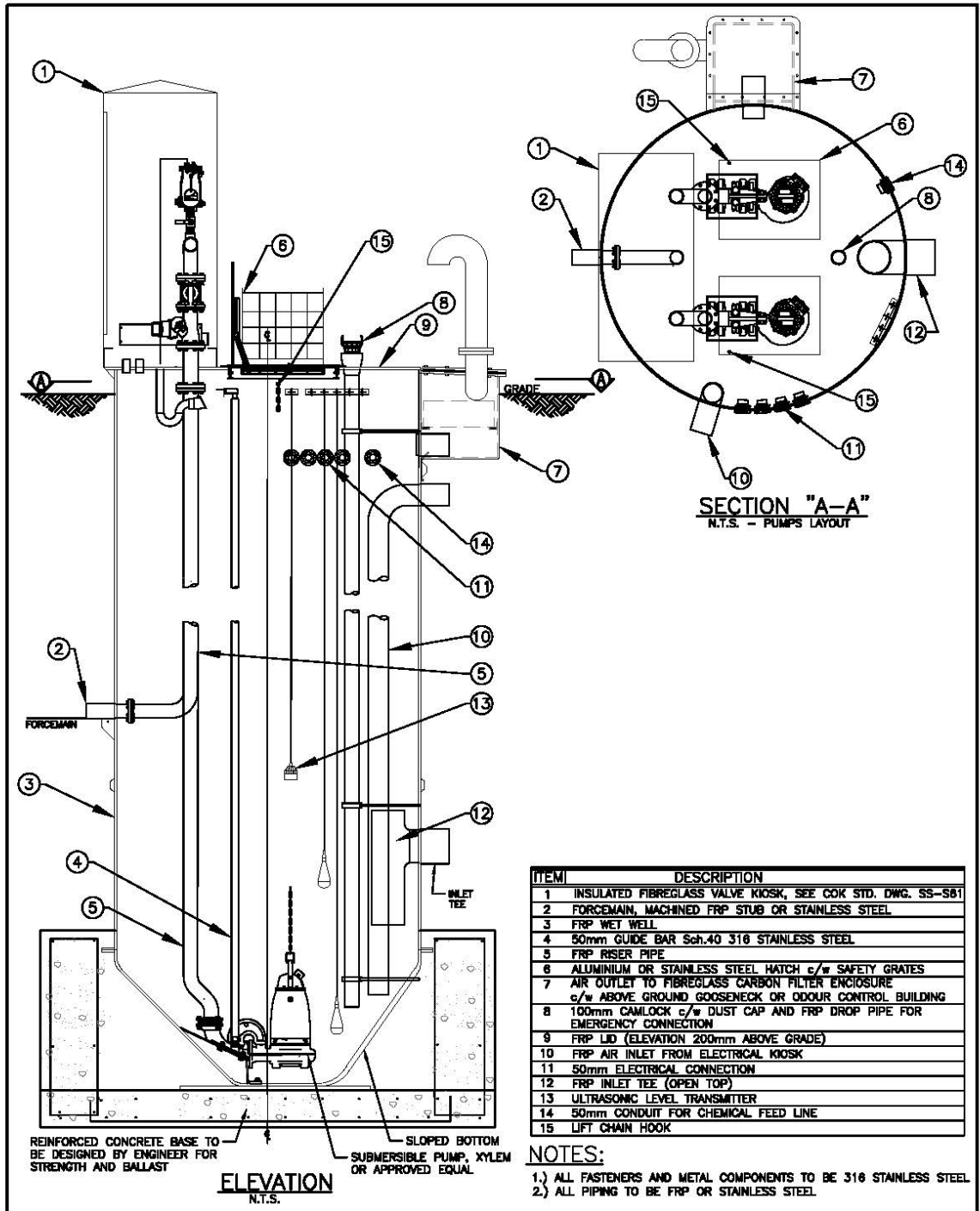
DWG. NO.

SS-S59



BL12066 added:
 SS-S6o - Sanitary Lift Station

BYLAW NOTE



ITEM	DESCRIPTION
1	INSULATED FIBREGLASS VALVE KIOSK, SEE COK STD. DWG. SS-S81
2	FORCEMAIN, MACHINED FRP STUB OR STAINLESS STEEL
3	FRP WET WELL
4	50mm GUIDE BAR Sch.40 316 STAINLESS STEEL
5	FRP RISER PIPE
6	ALUMINIUM OR STAINLESS STEEL HATCH c/w SAFETY GRATES
7	AIR OUTLET TO FIBREGLASS CARBON FILTER ENCLOSURE c/w ABOVE GROUND GOOSENECK OR ODOUR CONTROL BUILDING
8	100mm CAMLOCK c/w DUST CAP AND FRP DROP PIPE FOR EMERGENCY CONNECTION
9	FRP LID (ELEVATION 200mm ABOVE GRADE)
10	FRP AIR INLET FROM ELECTRICAL KIOSK
11	50mm ELECTRICAL CONNECTION
12	FRP INLET TEE (OPEN TOP)
13	ULTRASONIC LEVEL TRANSMITTER
14	50mm CONDUIT FOR CHEMICAL FEED LINE
15	LIFT CHAIN HOOK

NOTES:
 1.) ALL FASTENERS AND METAL COMPONENTS TO BE 316 STAINLESS STEEL
 2.) ALL PIPING TO BE FRP OR STAINLESS STEEL

**STANDARD
 DETAIL
 DRAWING**

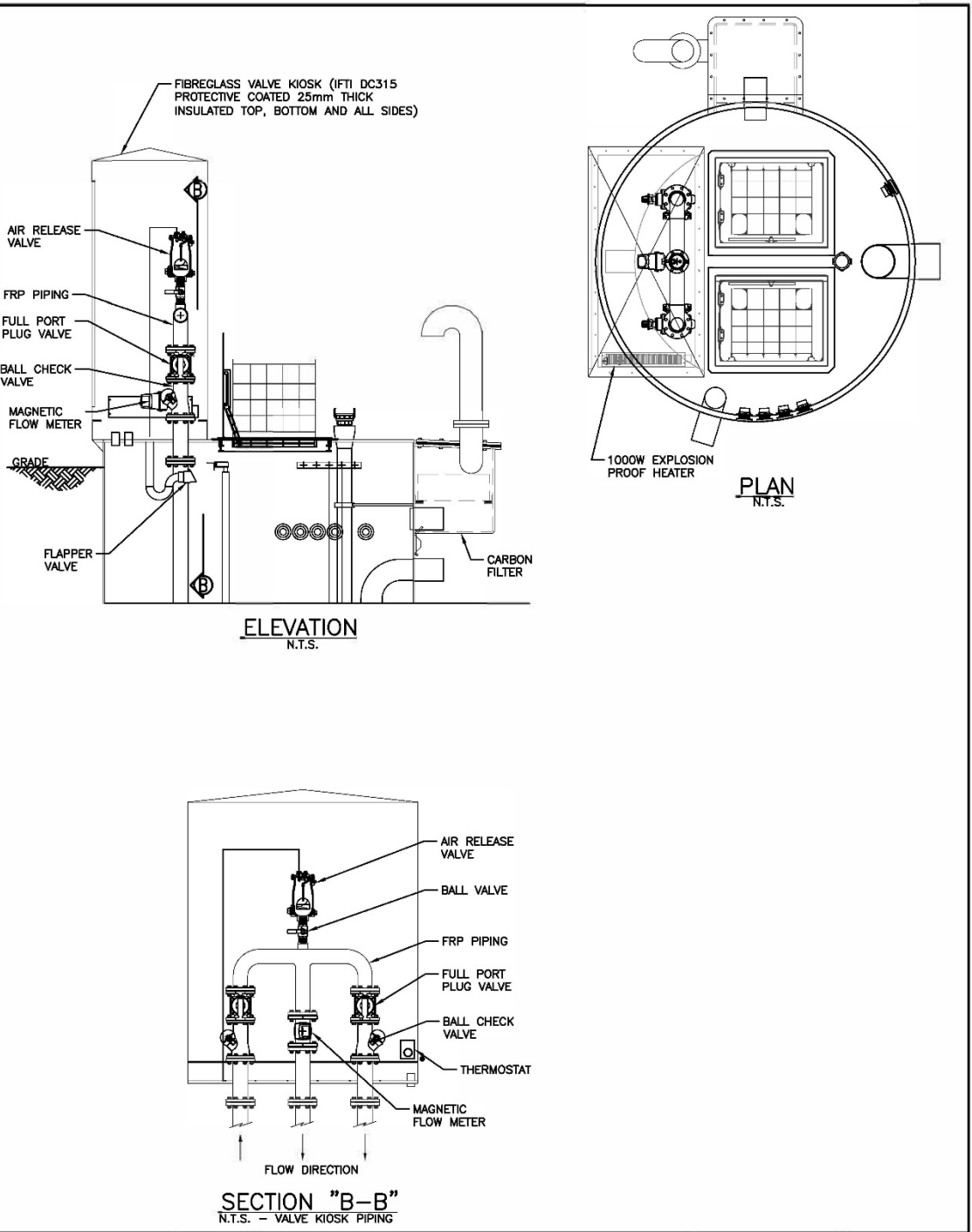
DATE:
 05/22/20
 SCALE:
 NTS

SANITARY LIFT STATION

DWG. NO.
SS-S60
 City of Kelowna

**BL12066 added:
SS-S61 – Above Ground Valve Kiosk**

BYLAW NOTE



**STANDARD
DETAIL
DRAWING**

DATE:
05/22/20
SCALE:
NTS

ABOVE GROUND VALVE KIOSK

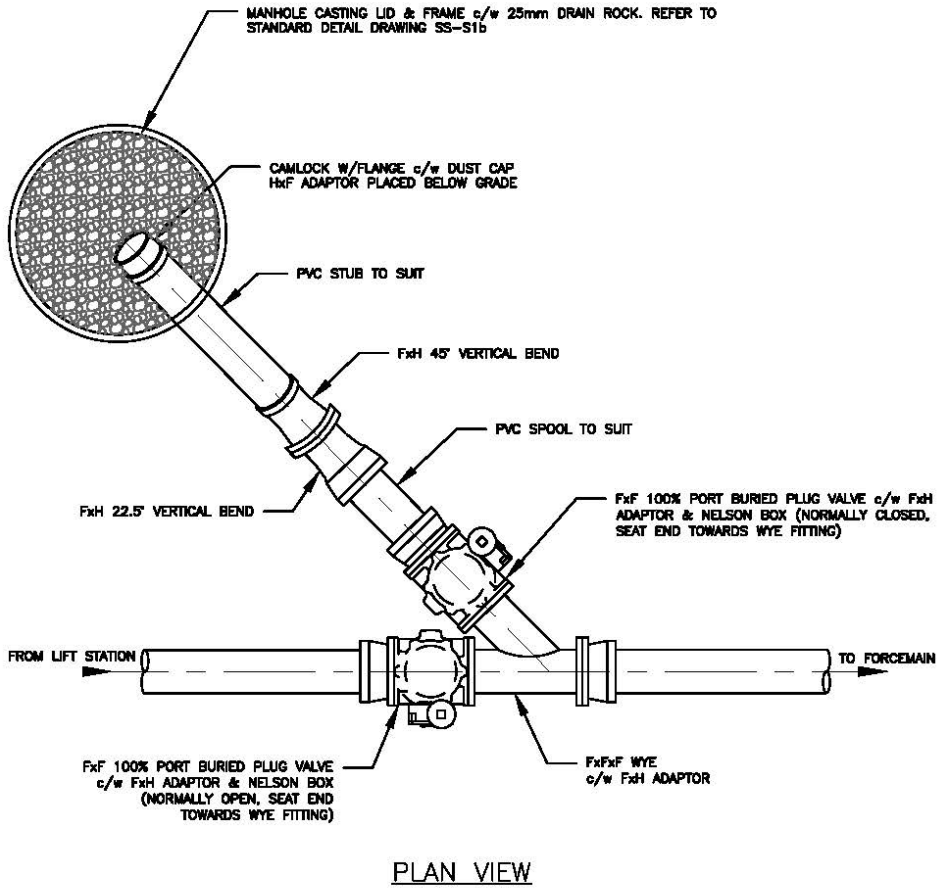
DWG. NO.

SS-S61



BL12066 added:
 SS-S62 – Pigging Port

BYLAW NOTE



PLAN VIEW

NOTES:

- 1.) ALL FITTINGS SHALL BE JOINT RESTRAINED.
- 2.) SIZE OF ALL FITTINGS AND PIPE TO MATCH SIZE OF FORCEMAIN.

**STANDARD
 DETAIL
 DRAWING**

DATE:
 05/22/20
 SCALE:
 NTS

PIGGING PORT

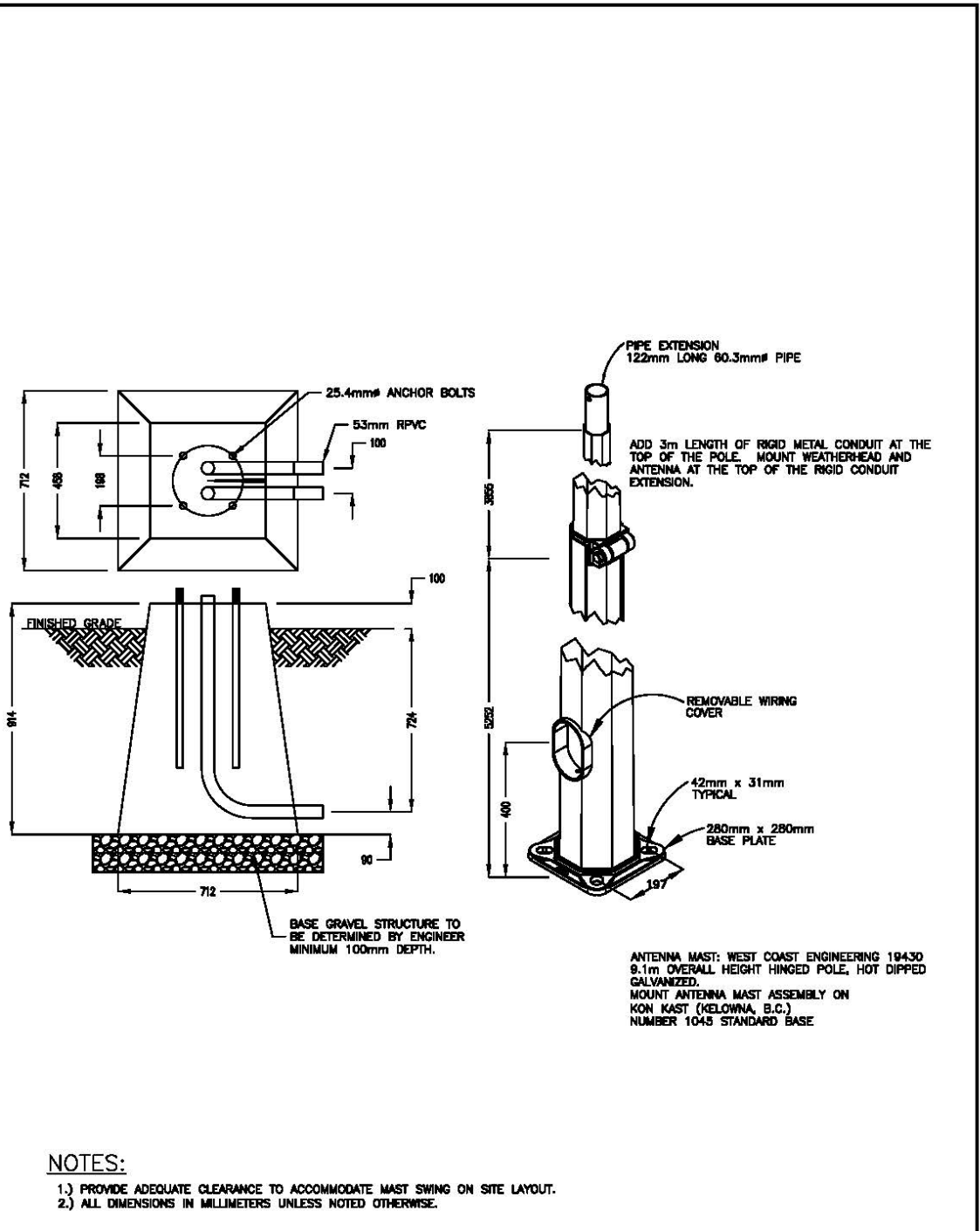
DWG. NO.

SS-S62



BL12066 added:
 SS-S63 – Radio Antenna Mast and Base

BYLAW NOTE



NOTES:

- 1.) PROVIDE ADEQUATE CLEARANCE TO ACCOMMODATE MAST SWING ON SITE LAYOUT.
- 2.) ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.

STANDARD
 DETAIL
 DRAWING

DATE:
 05/22/20

SCALE:
 NTS

RADIO ANTENNA MAST
 AND BASE

DWG. NO.

SS-S63

