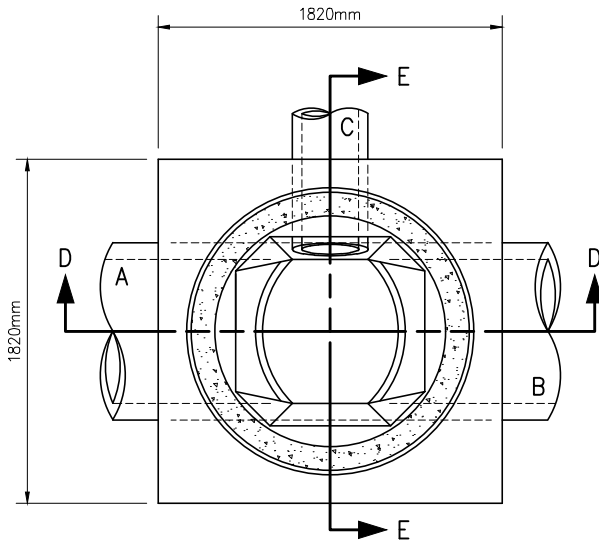
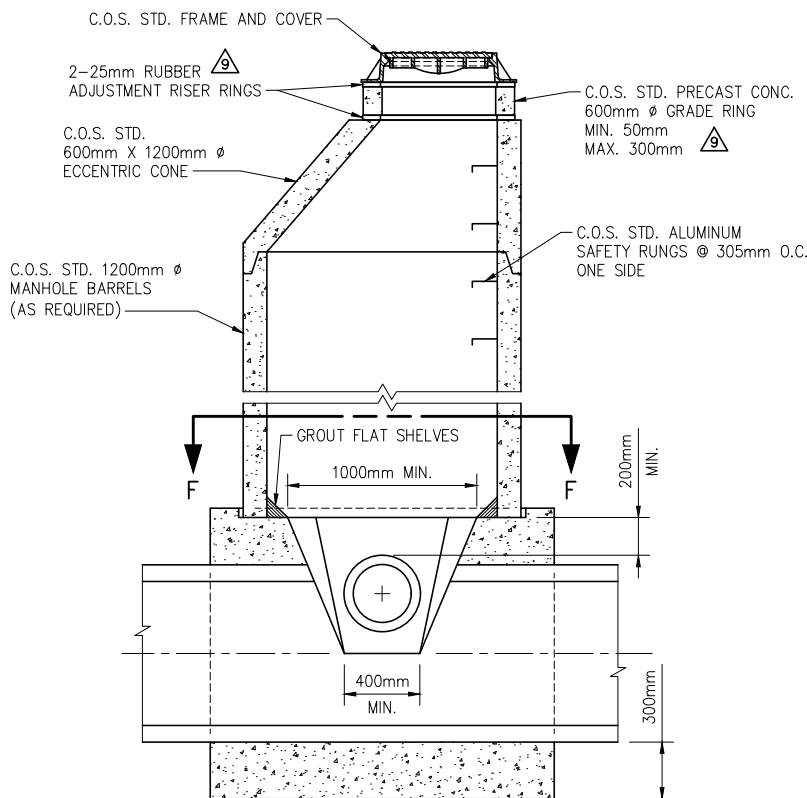




SECTION D-D

#### NOTES:

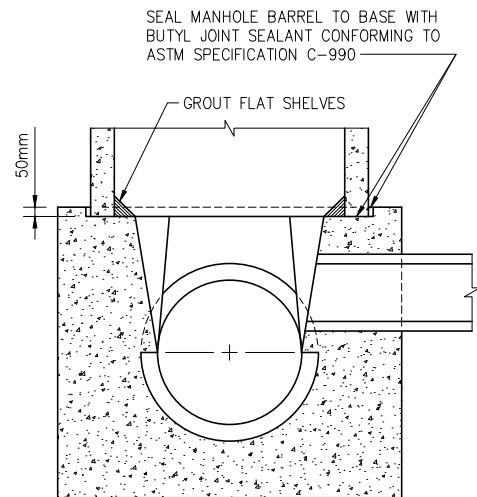
- ALL POURED IN PLACE CONCRETE TO BE 35 MPa SULPHATE RESISTANT. ALL GROUT TO BE NON-SHRINK, TYPE HS SULPHATE RESISTANT, CEMENTITIOUS GROUT.
- EXTERIOR DROP STRUCTURE REQUIRED FOR SANITARY SEWERS WHEN CROWN OF INLET PIPE IS 0.75m OR MORE ABOVE CROWN OF OUTLET PIPE.
- ALL PRECAST CONCRETE SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH A.S.T.M. SPECIFICATION C-478.
- ALL WALLS SHALL BE FORMED INSIDE AND OUTSIDE, AND POURED IN PLACE.
- SAFETY PLATFORMS AS PER CITY OF SASKATOON STANDARD SPECIFICATIONS SHALL BE INSTALLED IN ALL MANHOLES WITH DEPTHS GREATER THAN 6.0 METERS.
- SAFETY PLATFORMS SHALL BE INSTALLED IN SUCH A MANNER SO THAT NO VERTICAL FALL DISTANCE EXCEEDS 5.0 METERS OR IS LESS THAN 2.4 METERS.
- PVC CHANNELING SHALL BE SEAMLESS FOR STRAIGHT THROUGH BASES.
- PIPE TO MANHOLE CONNECTIONS SHALL BE WATERTIGHT.
- TAPERED RUBBER ADJUSTMENT RISER RINGS ARE REQUIRED ON CATCH BASINS AND MANHOLES THAT ARE OFFSET FROM THE CENTER OF THE ROAD.



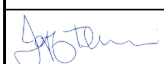
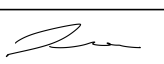
SECTION D-D

| A     | B (MAX.) | C (MAX.) |
|-------|----------|----------|
| 675mm | 675mm    | 600mm    |
| 750mm | 750mm    | 525mm    |
| 900mm | 900mm    | 300mm    |

NOTE: IF C > C (Max.) IN TABLE THEN A SPECIAL DESIGN IS REQUIRED.



SECTION E-E

| PLAN DESCRIPTION/REVISION | DATE        | BY  | APPROVALS                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|-------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2                         | 2006-JAN-20 | HLO | <br><b>STANDARD 1200mm MANHOLE FOR SEWERS BETWEEN 600mm &amp; 900mm</b> | <div>  <br/>           SIGNATURE<br/>           Jeff P D Thomson<br/>           NAME<br/>           Jan 27, 2021<br/>           DATE SIGNED         </div> <div>  <br/>           SIGNATURE<br/>           Maciej Jurkiewicz<br/>           NAME<br/>           Jan 27, 2021<br/>           DATE SIGNED         </div> |
| 3                         | 2006-APR-04 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4                         | 2007-JAN-22 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5                         | 2012-JAN-05 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6                         | 2014-DEC-12 | MJ  |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 7                         | 2015-NOV-26 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8                         | 2017-JAN-25 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 9                         | 2021-JAN-12 | DLH |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1                         | 2006-JAN-20 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2                         | 2006-APR-04 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3                         | 2007-JAN-22 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4                         | 2012-JAN-05 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5                         | 2014-DEC-12 | MJ  |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6                         | 2015-NOV-26 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 7                         | 2017-JAN-25 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8                         | 2017-JAN-25 | HLO |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 9                         | 2021-JAN-12 | DLH |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 10                        |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 11                        |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 76                        |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 168                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 169                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 170                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 171                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 172                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 173                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 174                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 175                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 176                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 177                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 178                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 181                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 183                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 184                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 187                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 188                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 189                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 190                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 191                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 192                       |             |     |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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