



CATTERALL & WRIGHT
CONSULTING ENGINEERS

1231 - 8th STREET EAST
SASKATOON, SK S7H 0S5

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- LEGEND:**
- MANHOLE
 - ⊙ CATCH BASIN / CATCH BASIN MANHOLE
 - ⊕ CATCH BASIN IN CURB
 - ⊗ EXIST. HYDRANT
 - ⊘ EXIST. VALVE
 - ⊥ EXIST. TEE
 - EXIST. POWER POLE
 - ⊥ PLUG
 - △ FLOW DIRECTION
 - FENCE
 - BARRIER CURB
 - EXIST. OVERHEAD POWER LINE
 - EXIST. UNDERGROUND POWER LINE
 - EXIST. PHONE LINE
 - EASEMENT
 - CONCRETE

ALLOWABLE DISCHARGE

NOTE:
STORAGE CALCULATIONS BASED ON COS DD5M
MAXIMUM ALLOWABLE DISCHARGE RATE.

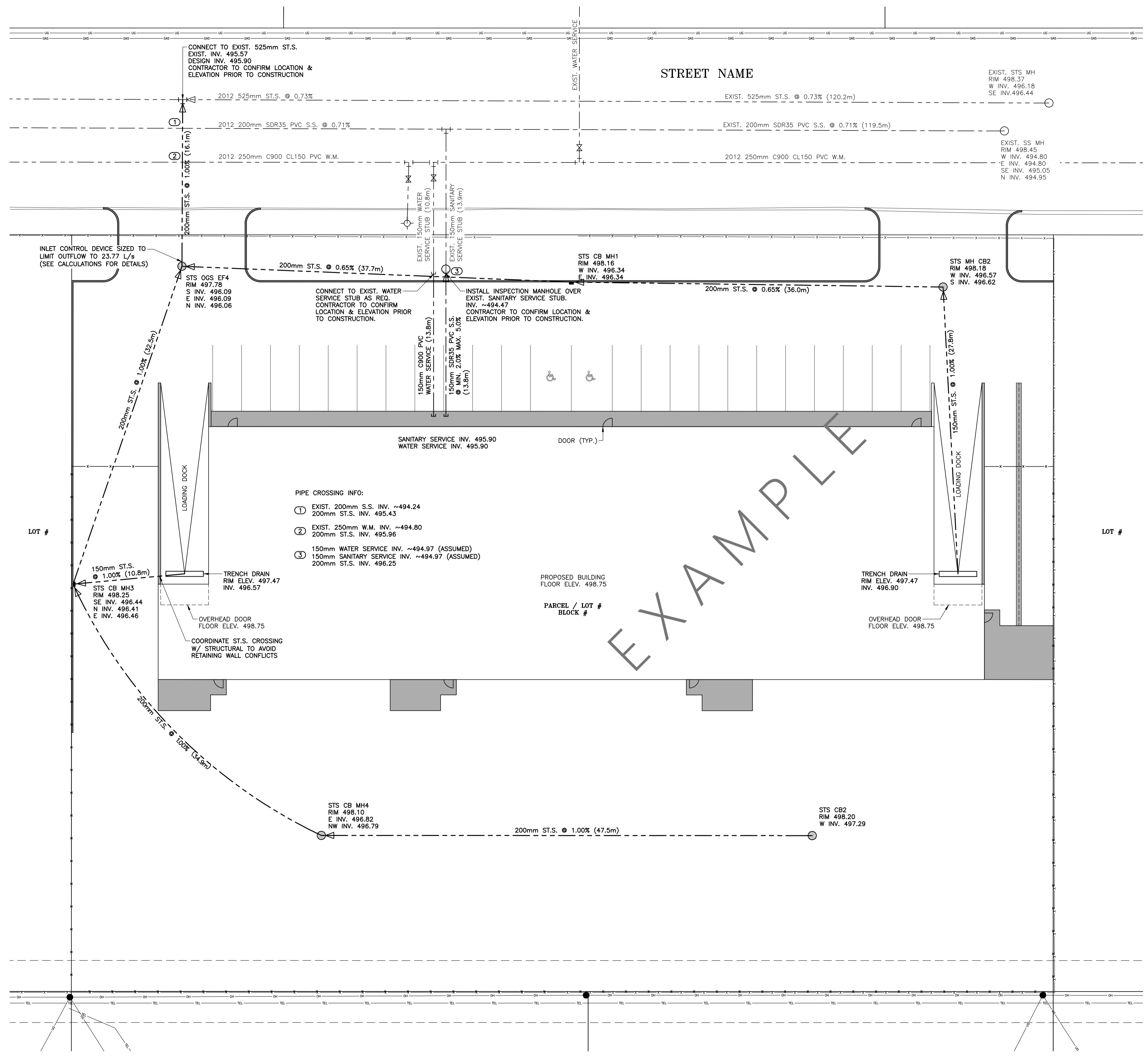
Cd= 0.3 CITY OF SASKATOON DESIGN C FACTOR

FLOW(L/s/ha)=114*Cd
FLOW(L/s)= 23.77

ORIFICE SIZE CALCULATION

Q= 0.02377 ALLOWABLE RELEASE RATE (cu.m/s)
K= 0.61 CONSTANT
A= AREA OR ORIFICE (sq.m)
g= 9.81 ACCELERATION OF GRAVITY (m/s²)
h= 2.31 HEAD (m)

Q=KA(2gh)^{0.5}
A= 0.0058sq.m
DIAMETER= 0.086m



- PIPE CROSSING INFO:**
- ① EXIST. 200mm S.S. INV. ~494.24
200mm ST.S. INV. 495.43
 - ② EXIST. 250mm W.M. INV. ~494.80
200mm ST.S. INV. 495.96
 - ③ 150mm WATER SERVICE INV. ~494.97 (ASSUMED)
150mm SANITARY SERVICE INV. ~494.97 (ASSUMED)
200mm ST.S. INV. 496.25

EXAMPLE

SITE PLAN
SCALE: 1:200

