℄ OF 2'-6" DIA. STD. METRO SEWAGE MANHOLE FRAME AND SOLID COVER. FOR DETAIL SEE DWG. S-223
FINISHED GRADE
2'-6" DIA. PRECAST CONC. RUBBER GASKET, M.H. SECTIONS WITH M.H. STEPS
CEMENT MORTAR ALL AROUND
THIS DIMENSION TO BE DETERMINED DURING CONSTRUCTION
36" DIA. C-76 CLASS III PIPE
36"-48" DIA. CONC. REDUCER
48" DIA. C-76 CLASS III PIPE
36"-48" DIA. CONC. INCREASER
36" DIA. C-76 CLASS III PIPE
CONCRETE HAUNCH
LONG. SECTION
℄ OF M.H.
STD. METRO SEWAGE M.H. STEPS @ 12" C.-C. SEE DWG. S-217
CONCRETE HAUNCH
CROSS SECTION
PRECAST CONCRETE MANHOLE AT STA. 5+76
SCALE 1/2" = 1'-0"
PROPOSED 36"ø SEWER
INV. ELEV. 743.6
CONTRACTOR TO REMOVE TOP OF EXISTING BRICK SEWER AND PLACE CONCRETE SADDLE.
TYPICAL REINFORCING #5 @ 10" BOTH WAYS
EXISTING 36"ø SEWER INV. ELEV. 740.6
UNDISTURBED GROUND
CONCRETE FILL
CONCRETE SADDLE
CROSS SECTION OF EXISTING 36"ø SEWER
SCALE 1/2" = 1'-0"
PROPOSED 36"ø SEWER
2-#5 BOTH SIDES
EXISTING 36"ø SEWER (BRICK)
CONCRETE SADDLE
CROSS SECTION OF PROPOSED 36"ø SEWER
SCALE 1/2" = 1'-0"
DETAIL SEWER X-ING AT STA. 0+62
CEMENT MORTAR ALL AROUND
EXISTING 36" DIA. CONC. SEWER PIPE
CONCRETE
3'-6" STOP LOGS GROOVE
#5 BARS @ RANDOM SPACING
PROP. 36" DIA. CONCRETE PIPE (ALTERNATE "B") NOT SHOWN
PROP. 48" DIA. CONCRETE PIPE (ALTERNATE "A")
CONCRETE PIPE (ALTERNATE "A")
MH STEPS
PLAN
NOTE
SUPPLY AND INSTALL 2" DOUGLAS FIR STOP LOGS AND SET TOP OF LOGS 1.5 FEET ABOVE PIPE INVERT.
48"ø CONC. PIPE
#4 @ 12"
#6 @ 10"
CONCRETE
48"ø CONC. PIPE
FLOOR PLAN
LAYOUT OF MANHOLE AT STA. 15+73.20
SCALE - N.T.S.
NOTE
MANHOLE AT STA. 21+69.40 TO BE BUILT AS SHOWN.
SUSPENSEL OR APPROVED EQUAL
CLEARANCE BETWEEN SLABS
DETAIL OF 1"x1" NOTCH IN ROOF SLAB JOINTS
SCALE - N.T.S.
℄ OF 2'-6" DIA. STD. METRO SEWAGE MANHOLE FRAME AND SOLID COVER. FOR DETAIL SEE DWG. S-223
FINISHED GRADE
2'-6" DIA. PRECAST CONC. RUBBER GASKET, M.H. SECTIONS WITH M.H. STEPS
LIFTING LUGS
TYPICAL WALL REINFORCING #6 @ 12" EACH WAY
#6 @ 9"
1'-3"
2" CLEAR
8-#6 @ 45° AROUND EACH PIPE OPENING
CONCRETE
EXISTING 36" DIA. CONC. PIPE
PROP. 48" DIA. CONC. PIPE
INV. EL. 745.25'
STOP LOGS GROOVE
CONCRETE FILL TO UNDISTURBED SOIL
3" SKIN COAT
SEC. "A" - "A"
CHECK INVERT PRIOR TO CONSTRUCTION
DETAIL OF SPECIAL CHAMBER AT STA. 11+55.10
HIGGINS ST. AND SUTHERLAND AVE.
#7 @ 10"
#4 @ 8"
8-#6 x 3'-0" @ 45° AROUND EACH PIPE OPENING
DOWELS #6 @ 10" #5 @ 10"
48" DIA. CONC. PIPE
#6 @ 9"
EACH WAY
SEC. "A" - "A"
SCALE - 1/2" = 1'-0"
℄ OF 2'-6" DIA. STD. METRO SEWAGE MANHOLE FRAME AND SOLID COVER. FOR DETAIL SEE DWG. S-223
FINISHED GRADE
MAX. OF 2 ROWS OF CONC. BRICKS OR A 6" LONG PRECAST CONC. SECTION.
CEMENT MORTAR ALL AROUND
TO BE SET IN FIELD
2-#8 x 4'-0" ON TWO UNSUPPORTED SIDES OF M.H.
STD. METRO SEWAGE M.H. STEPS @ 12" C.-C. SEE DWG. S-217
CONCRETE
3" SKIN COAT
CONC. FILL TO UNDISTURBED SOIL
SEC. "B" - "B"
SCALE - 1/2" = 1'-0"
DETAIL OF SPECIAL MANHOLE AT STA. 21+69.40
℄ OF M.H.
MAX. OF 2 ROWS OF CONC. BRICKS OR A 6" LONG PRECAST CONC. SECTION.
CEMENT MORTAR ALL AROUND
2" SAND
LIFTING LUG FOR DETAIL SEE DWG. S-18
STD. METRO SEWAGE M.H. STEPS @ 12" C.-C.
CONCRETE
PROP. 36" DIA. CONC. PIPE
EXISTING 36" DIA. CONC. PIPE
PROP. 48" DIA. CONC. PIPE (ALTERNATE "A")
PROP. 36" DIA. CONC. PIPE (ALTERNATE "B") NOT SHOWN
INV. EL. 745.25'
DOWELS #6 @ 12"
CONCRETE FILL TO UNDISTURBED SOIL
SEC. "B" - "B"
PROVINCE OF MANITOBA
R. M. GIRLING
REGISTERED ENGINEER
AS CONSTRUCTED 25 JAN. 66 HB
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
A. PENMAN — DIRECTOR
SEWAGE DISPOSAL DEPT.
SUTHERLAND SECONDARY INTERCEPTOR SEWER
SPECIAL CHAMBER, MANHOLES & MISC. DETAILS
DES. R.M.G. CHK'D. A.C.H.
DRN. K.D., A.C., V.S.K. DATE 18 MAY 65
ENG. DES.
ENG. OPER.
APPROVED A. Penman
SCALES 1/2" = 1'-0" AND AS NOTED
DRAWING NO. 519