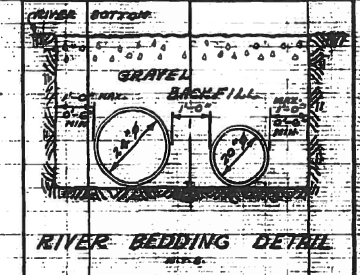
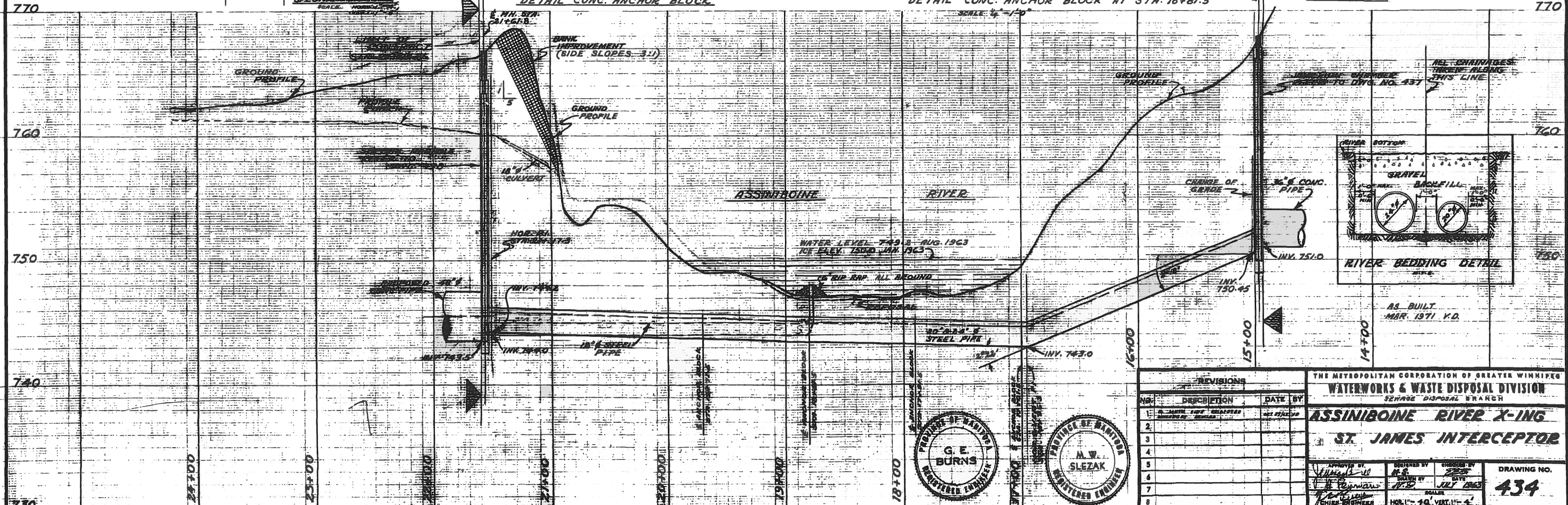
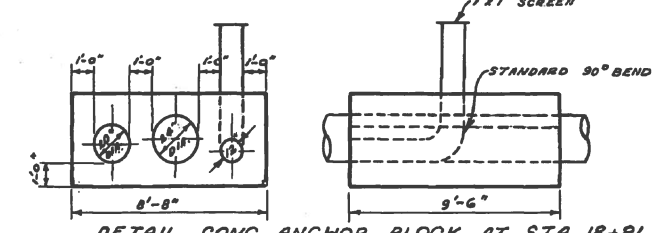
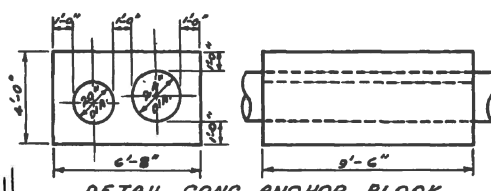
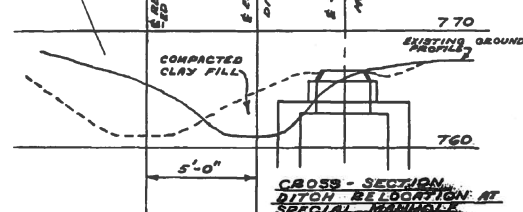
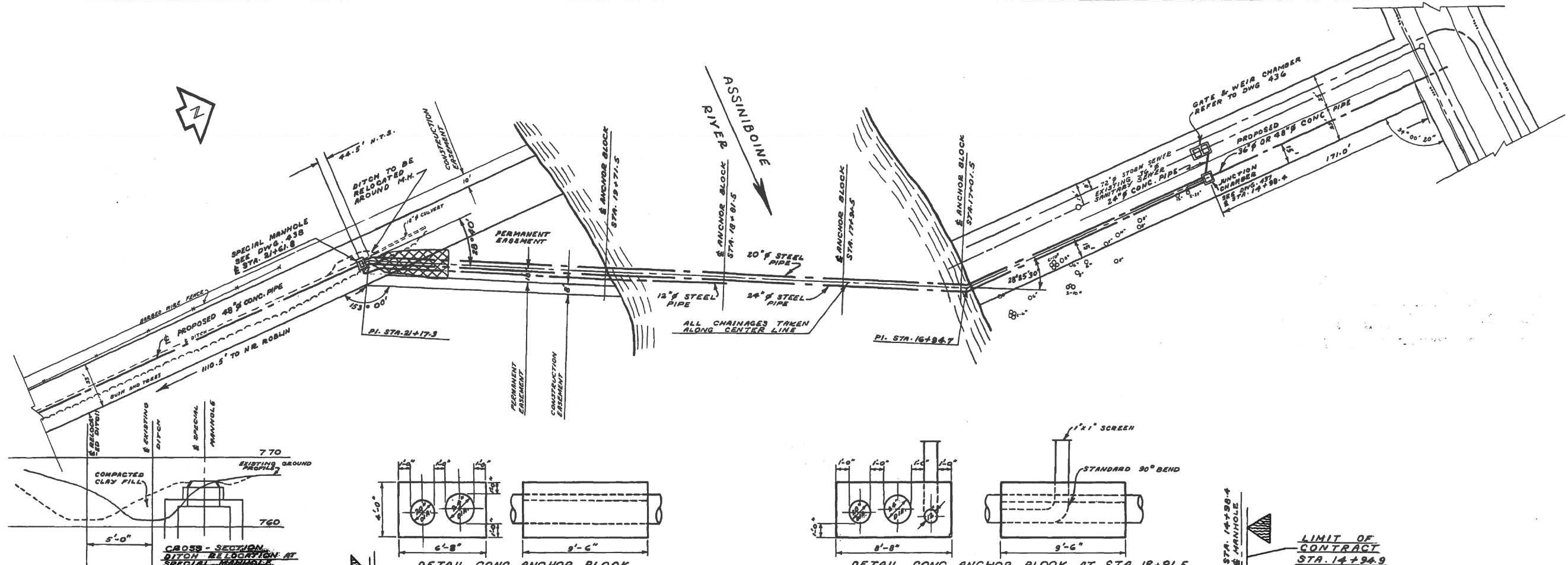


NOTE:
REFER TO DWG. NO. 434
FOR DETAIL OF ASSINIBOINE
RIVER CROSSING

REVISIONS		
NO.	DESCRIPTION	DATE BY
1	CONTRACT REVISED	2/27/19
2	HOUSE CONNECTION ADDED	3/MAY/19
3		
4		
5		
6		
7		
8		

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG			
WATERWORKS & WASTE DISPOSAL DIVISION			
SEWER DISPOSAL BRANCH			
ST. JAMES INTERCEPTOR			
PLAN PROFILE			
STA. 23+77 TO STA. 12+19			
APPROVED BY	DESIGNED BY	CHECKED BY	DRAWING NO.
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	433
SCALE	DATE	SCALE	
1"=40'	AUG 11 1919	1"=40'	
CHIEF ENGINEER			

694-C



NO.	DESCRIPTION	DATE	BY
1	AS BUILT		
2			
3			
4			
5			
6			
7			
8			

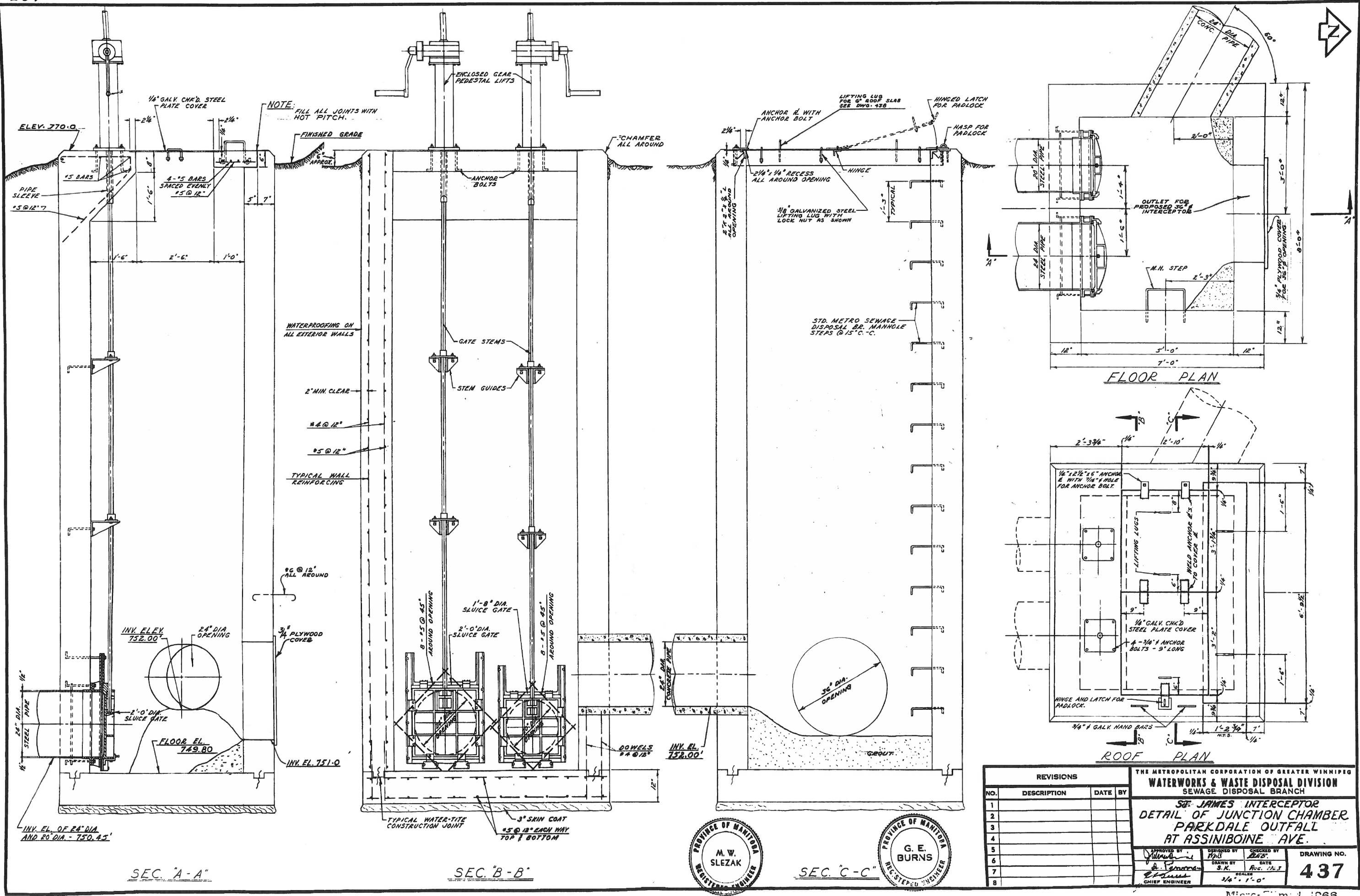
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
 SEWERAGE DISPOSAL BRANCH

ASSINIBOINE RIVER X-ING
ST. JAMES INTERCEPTOR

APPROVED BY: [Signature]
 DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DATE: JULY 1963

DRAWING NO. **434**

HOR. 1" = 40' VERT. 1" = 4'

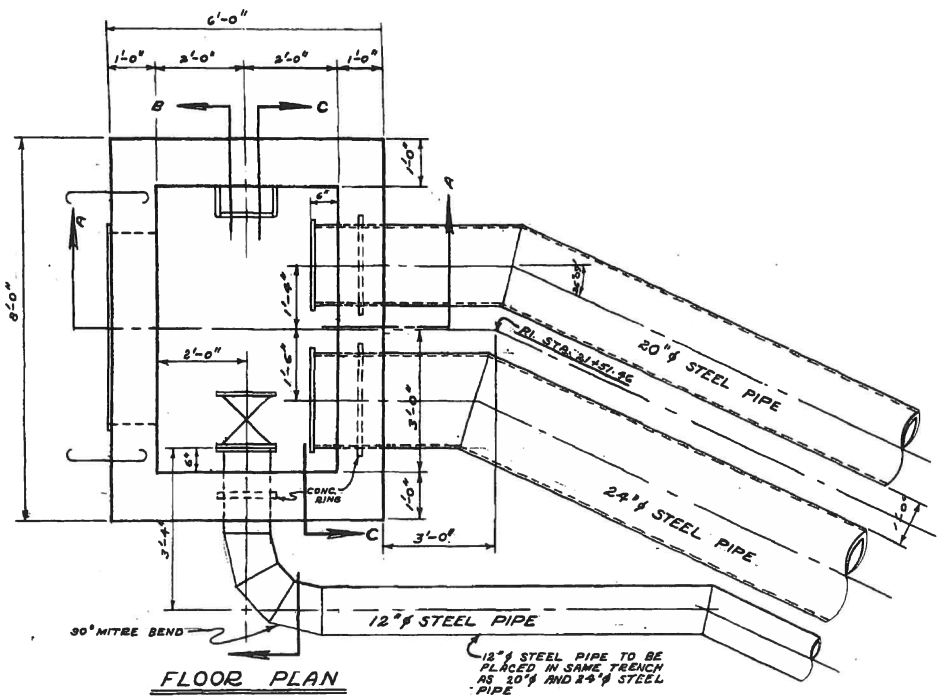


REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			
8			

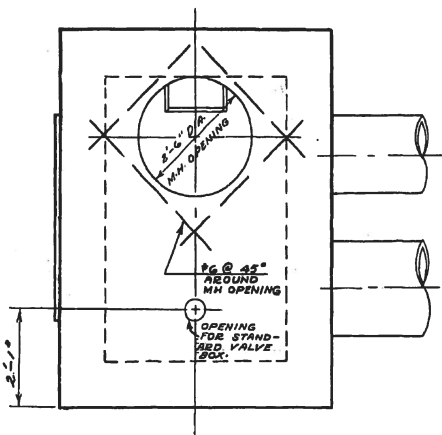
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
 SEWAGE DISPOSAL BRANCH
ST. JAMES INTERCEPTOR
 DETAIL OF JUNCTION CHAMBER,
 PARKDALE OUTFALL
 AT ASSINIBOINE AVE.

APPROVED BY: *[Signature]*
 DESIGNED BY: *[Signature]*
 DRAWN BY: *[Signature]*
 DATE: Nov. 1963
 SCALE: 3/4" = 1'-0"

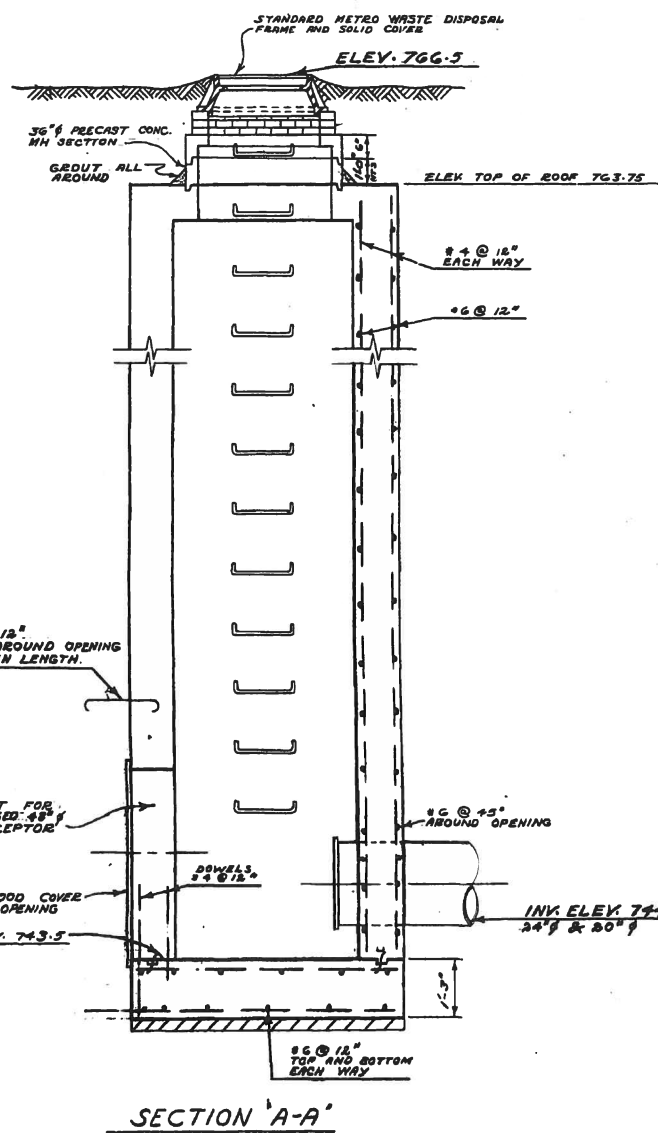
DRAWING NO. **437**



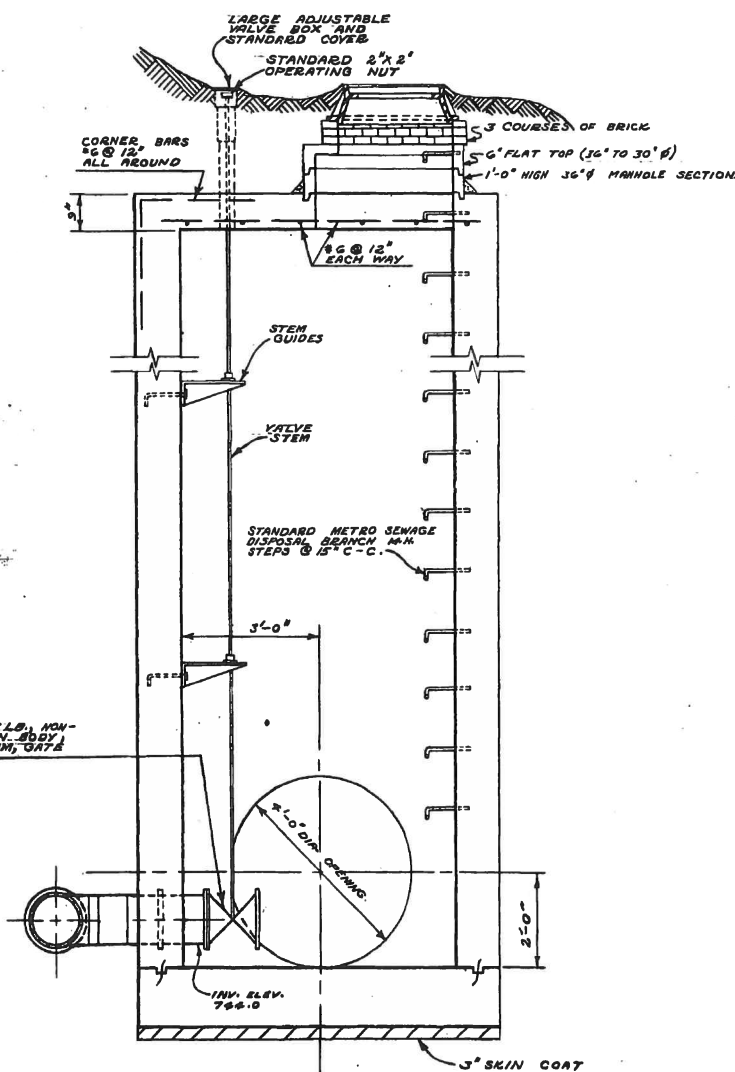
FLOOR PLAN



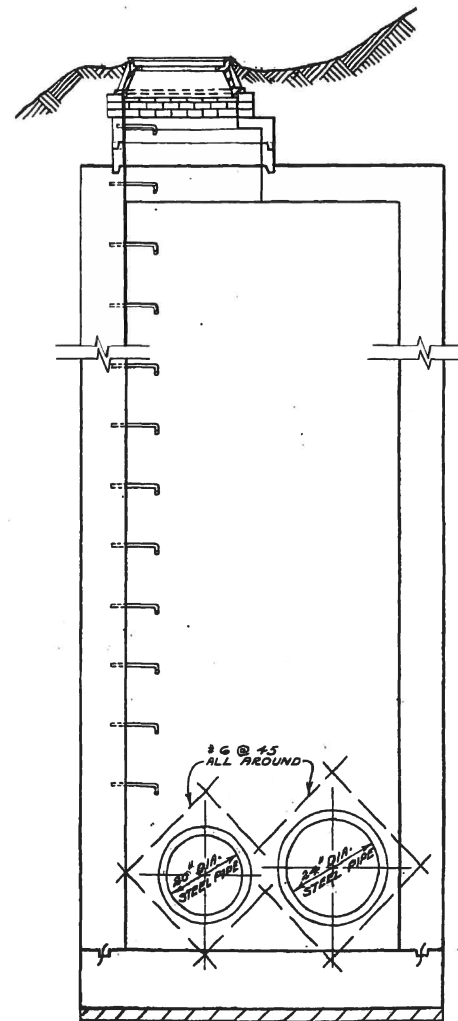
ROOF PLAN



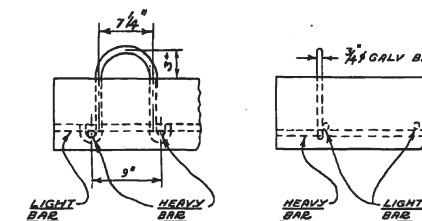
SECTION 'A-A'



SECTION 'B-B'



SECTION 'C-C'

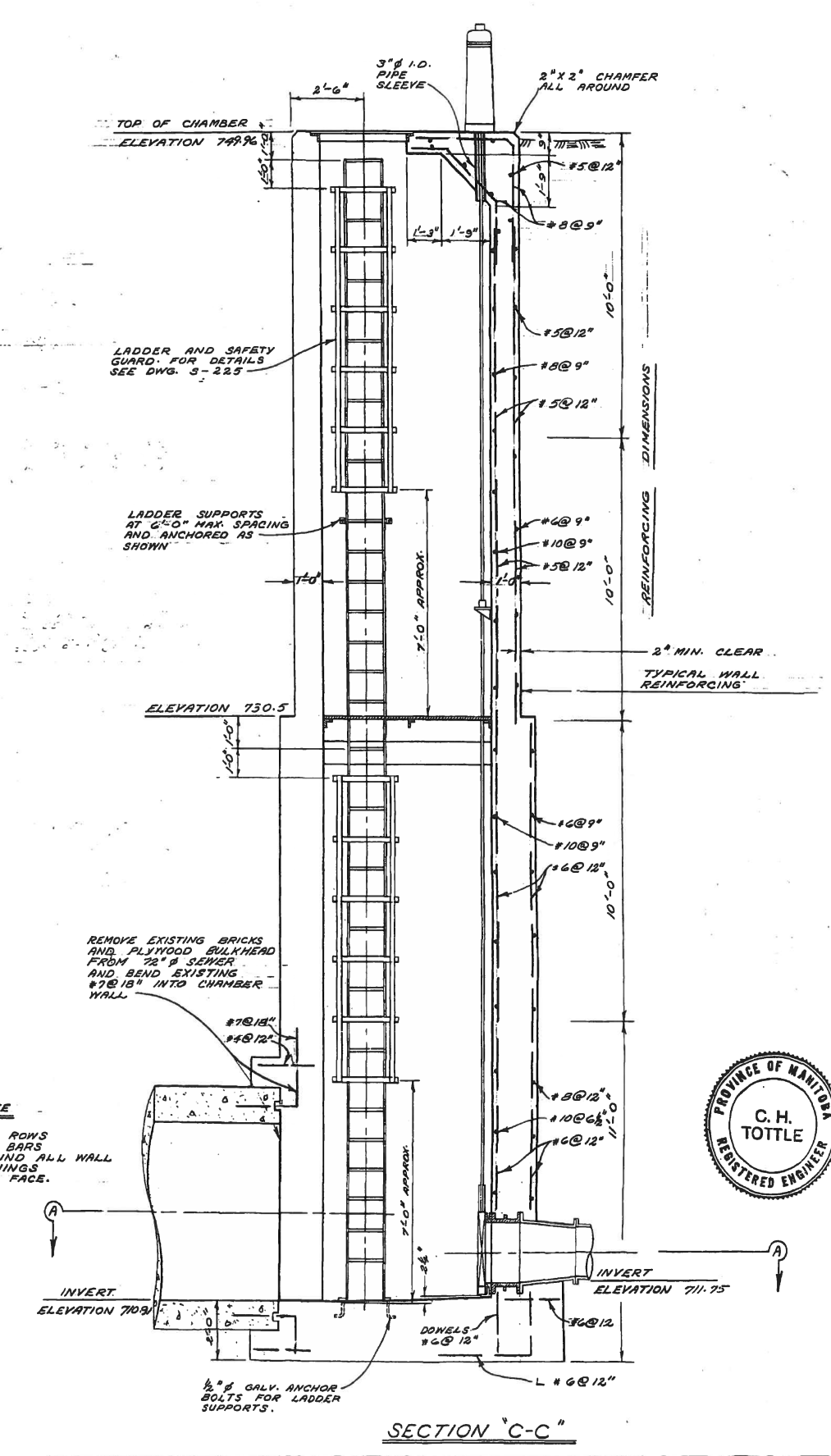
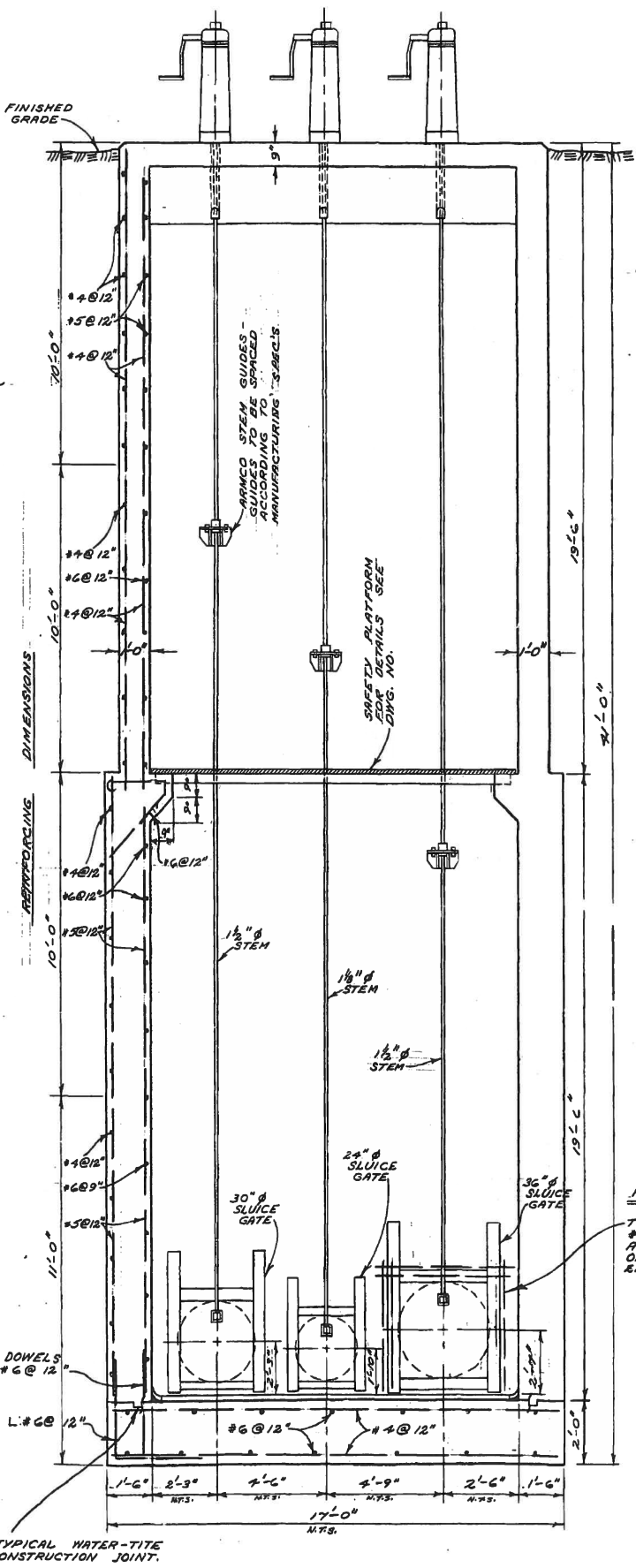
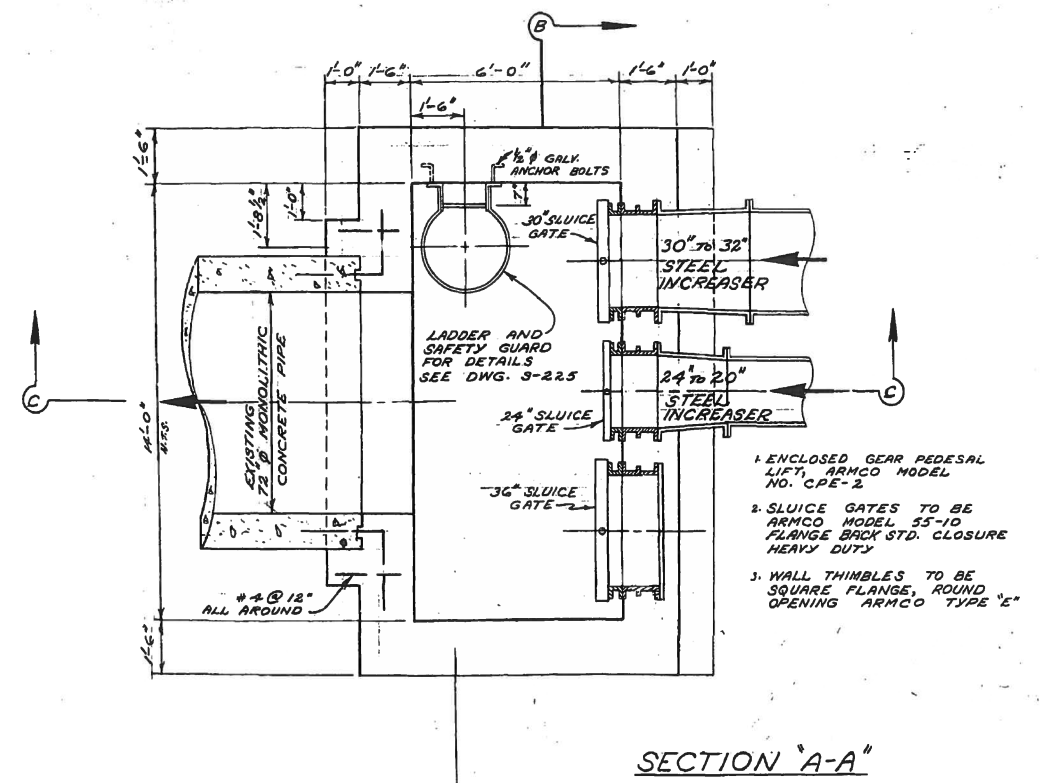
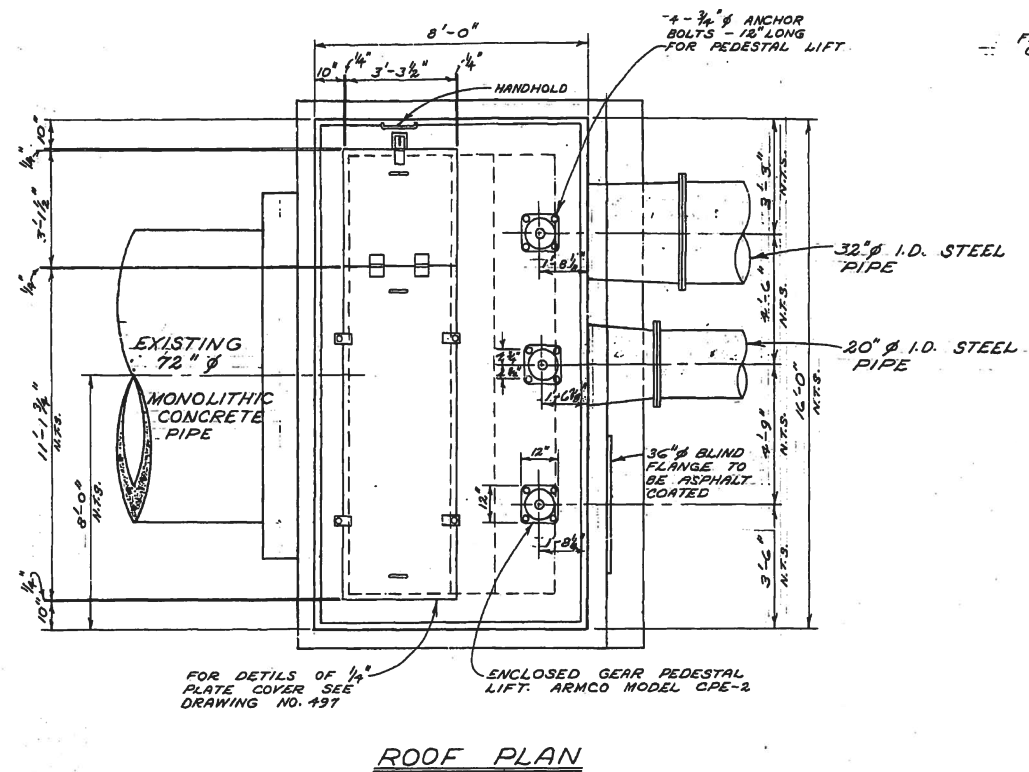


DETAIL OF LIFTING LUG

NOTE:
CONTRACTOR TO SUPPLY 1-20" AND 1-24" BLIND FLANGES FOR STEEL PIPE.



REVISIONS				THE METROPOLITAN CORPORATION OF GREATER WINNIPEG	
NO.	DESCRIPTION	DATE	BY	WATERWORKS & WASTE DISPOSAL DIVISION	
1				SEWAGE DISPOSAL BRANCH	
2				ST. JAMES INTERCEPTOR	
3				SPECIAL MANHOLE ASSINIBOINE	
4				RIVER CROSSING	
5				APPROVED BY: <i>[Signature]</i>	
6				DESIGNED BY: <i>[Signature]</i>	
7				CHECKED BY: <i>[Signature]</i>	
8				DRAWING NO. 438	



SURVEYED & PLAN CHECKED BY: [Signature]

APPROVED AS BUILT BY: [Signature]

DATE: 1/22

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG

WATERWORKS & WASTE DISPOSAL DIVISION

A. PENMAN - DIRECTOR

SEWER DISPOSAL DEPT.

NORTH-EAST INTERCEPTOR RIVER CROSSING SIPHON OUTLET CHAMBER

DESIGNED BY: [Signature]

DATE: JULY 1970

ENGR. [Signature]

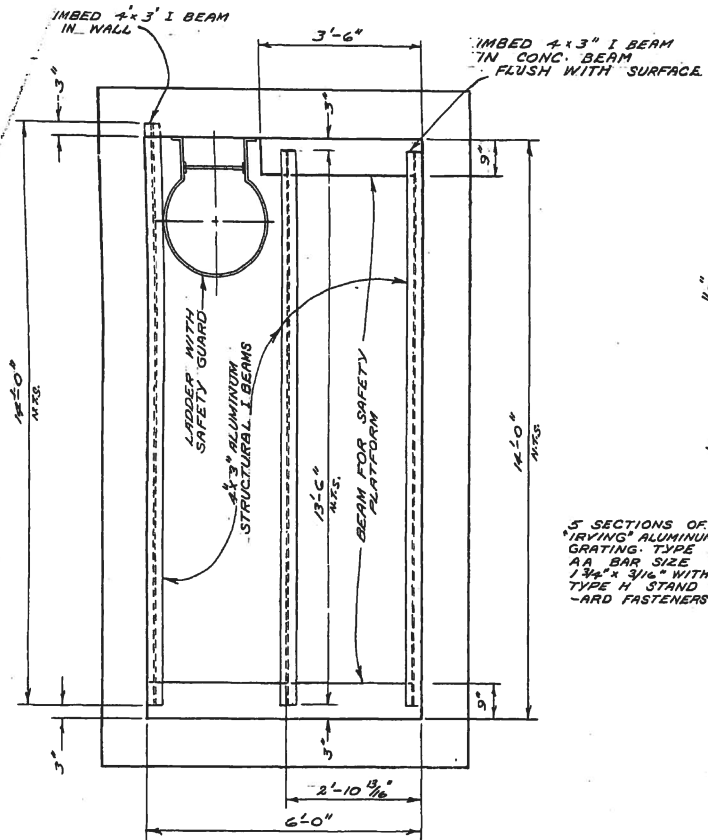
APPROVED BY: [Signature]

PROVINCE OF MANITOBA REGISTERED ENGINEER

C. H. TOTTLE

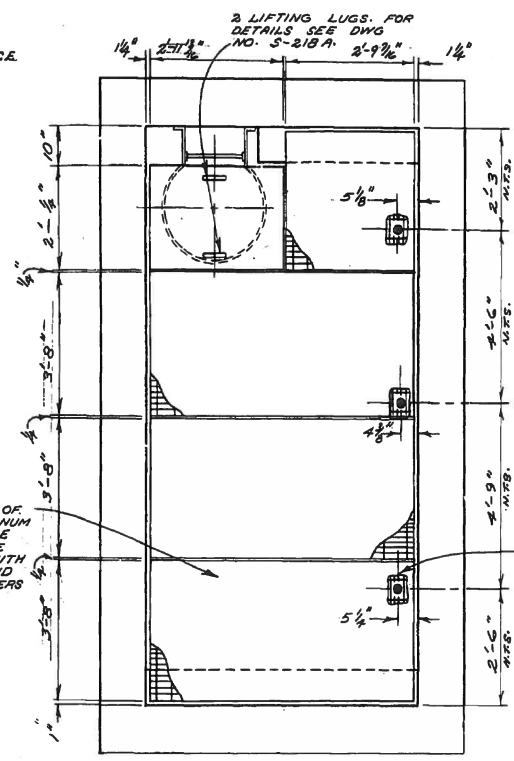
SCALE: 3/8" = 1'-0"

DRAWING NO. **496**

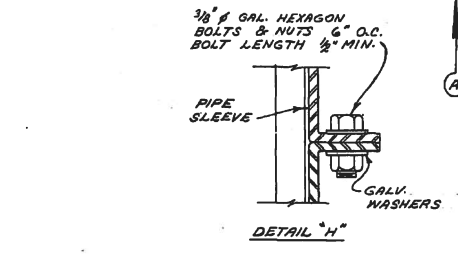


CONCRETE BEAMS AND ANGLE IRON DETAILS

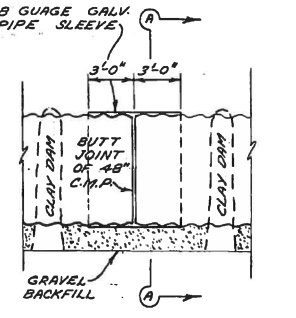
DETAIL OF SAFETY PLATFORM SIPHON OUTLET CHAMBER



GRATING DETAIL

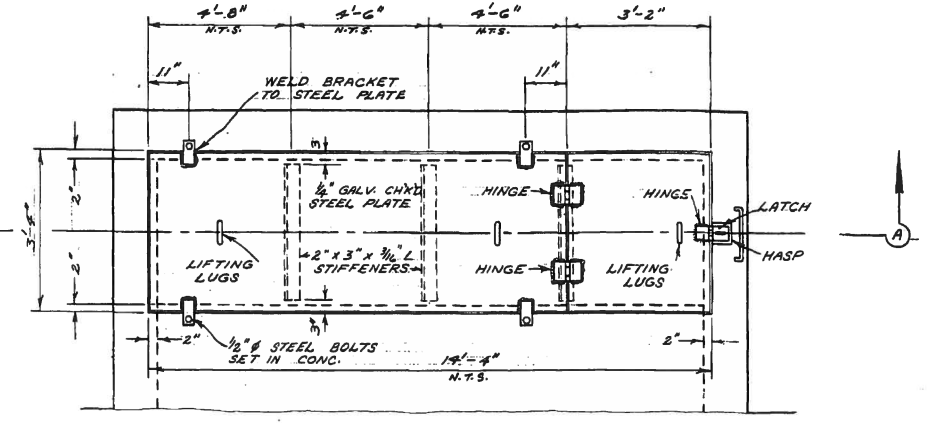


SECTION "A-A"

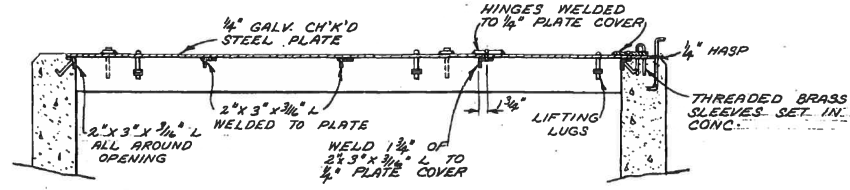


LONGITUDINAL SECTION

SLIP JOINT DETAIL

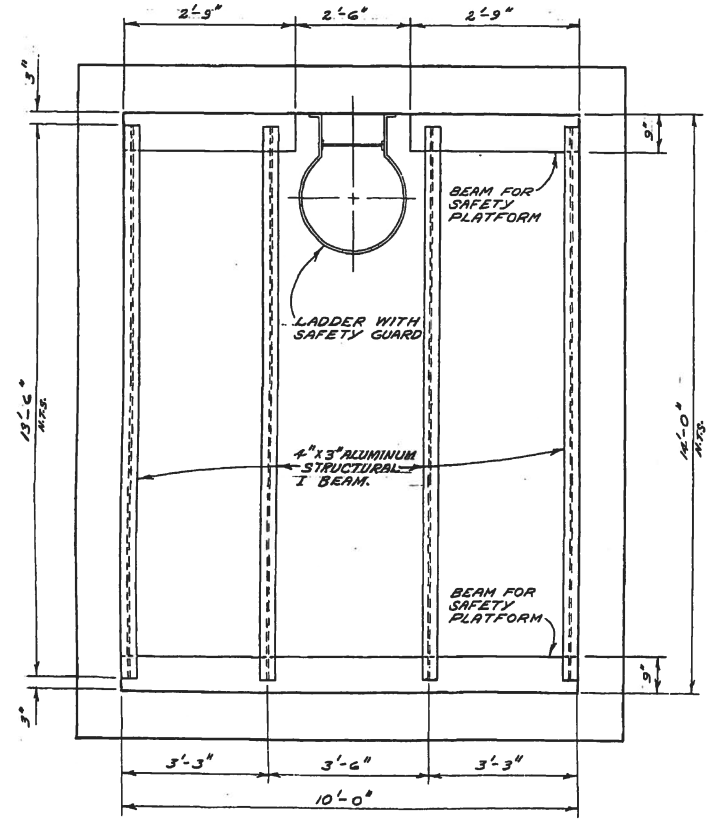


PLAN



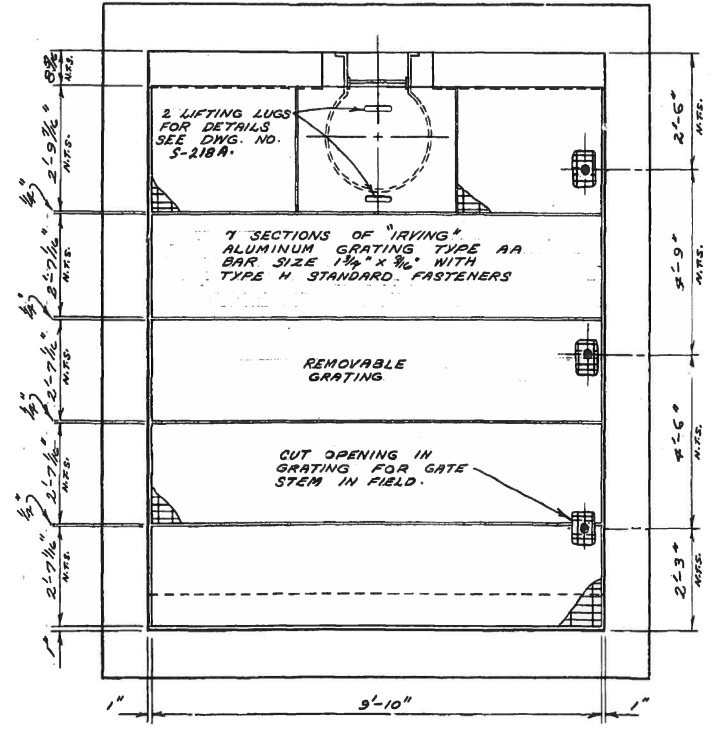
SECTION "A-A"

PLATE COVER FOR INLET AND OUTLET CHAMBERS

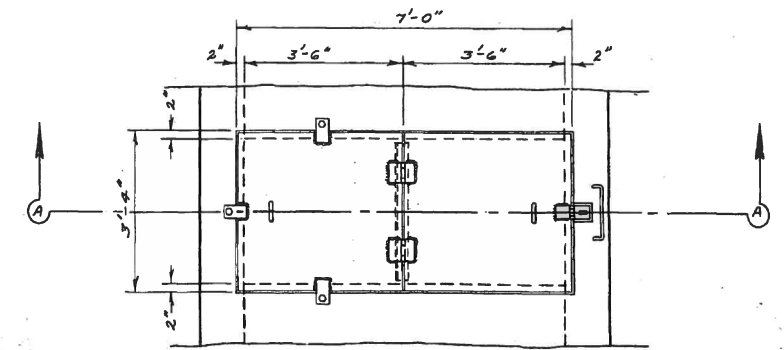


CONCRETE BEAM AND ANGLE IRON DETAIL

DETAIL OF SAFETY PLATFORM SIPHON INLET CHAMBER



GRATING DETAIL



PLAN



SECTION "A-A"

PLATE COVER FOR OVERFLOW CHAMBER

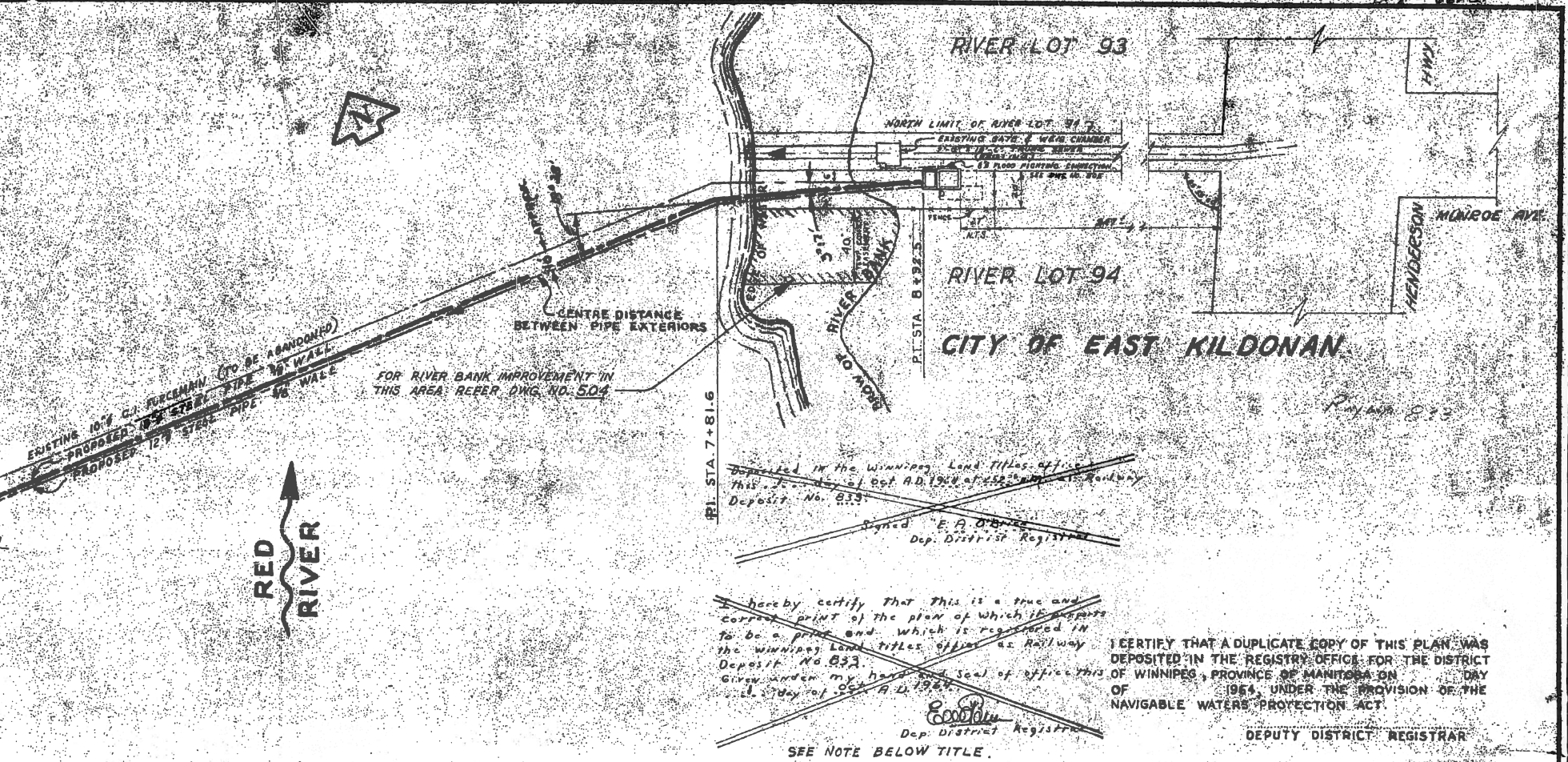
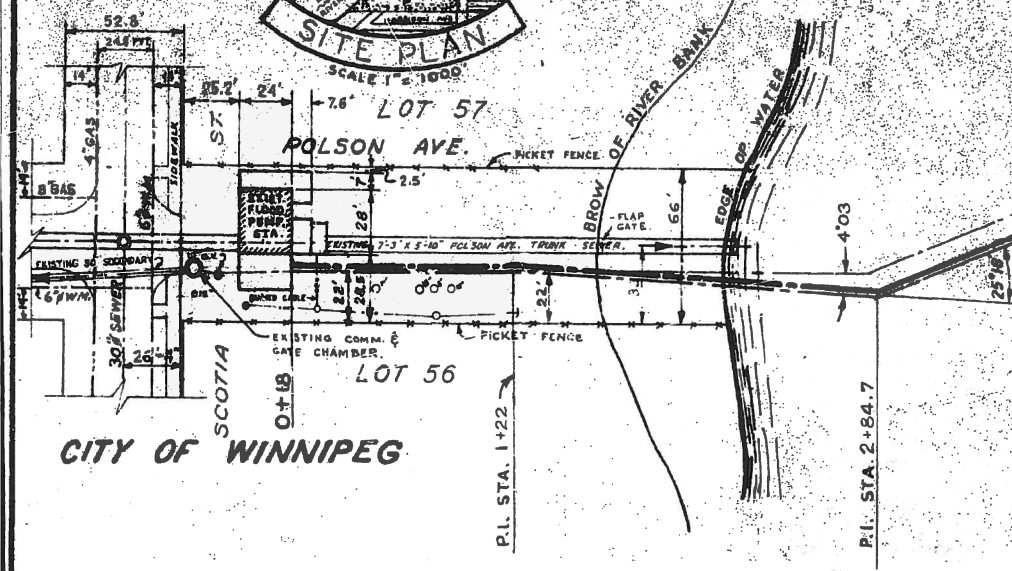
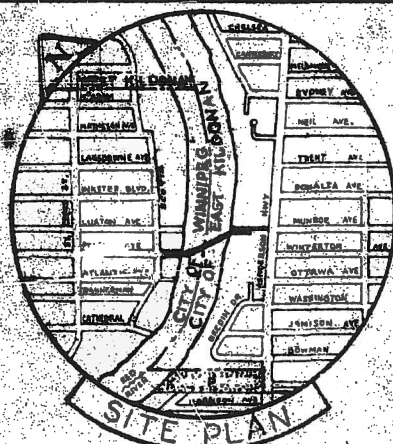


SURVEYED & PLAN CHECKED BY: APPROVED AS BUILT BY: DATE: MAR 1972

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION PENMAN - DIRECTOR

SEWER DISPOSAL DEPT. CH'KD. DRN. K. DUMORE DATE SEPT 3/70 ENG. DES. DATE: ENG. APPROVE:

SCALE: 1/2" = 1'-0" DRAWING NO. 497



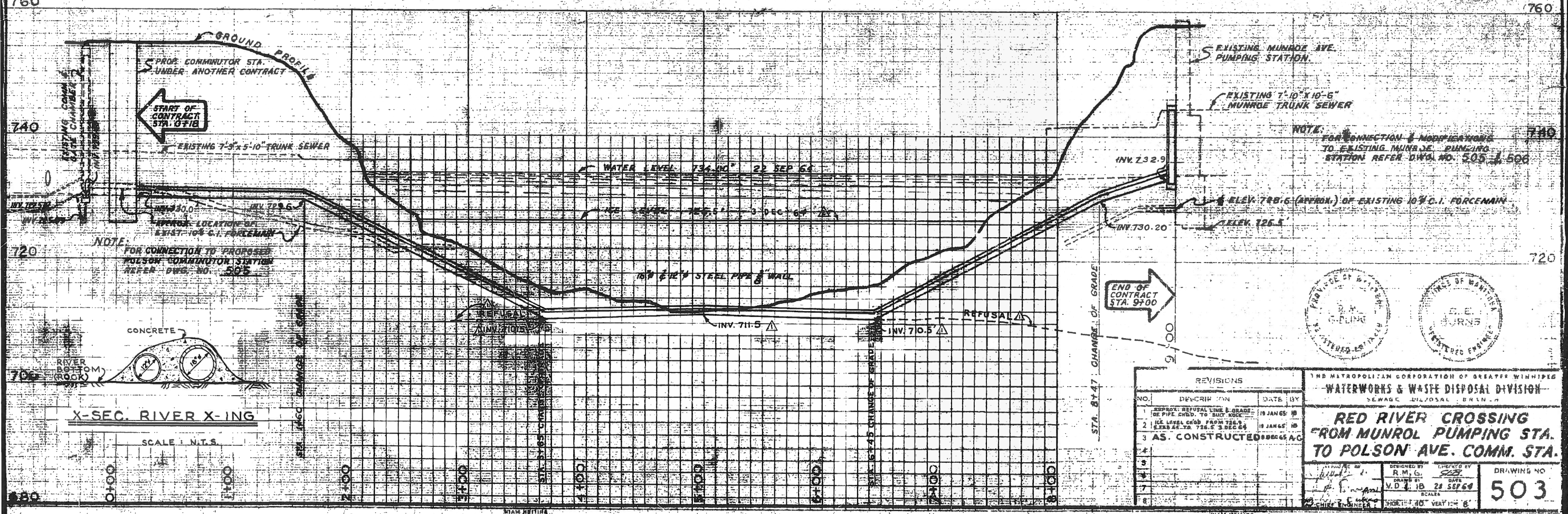
I hereby certify that this is a true and correct print of the plan of which it appears to be a part and which is registered in the Winnipeg Land Titles Office as Railway Deposit No. 833.

Signed: *E.A. Burns*
Dep. District Registrar

I CERTIFY THAT A DUPLICATE COPY OF THIS PLAN WAS DEPOSITED IN THE REGISTRY OFFICE FOR THE DISTRICT OF WINNIPEG, PROVINCE OF MANITOBA ON 11 DAY OF SEP 1964, UNDER THE PROVISION OF THE NAVIGABLE WATERS PROTECTION ACT.

DEPUTY DISTRICT REGISTRAR

SEE NOTE BELOW TITLE.



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	APPROX. REFUSAL LINE & GRADE OF PIPE CHGD. TO SUCC. ROCK	19 JAN 65	IB
2	ICE LEVEL CHGD. FROM 725.5 TO 726.5 3 DEC 64	19 JAN 65	IB
3	AS. CONSTRUCTED	28 SEP 64	AG
4			
5			
6			
7			
8			

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
SEWAGE DISPOSAL BRANCH

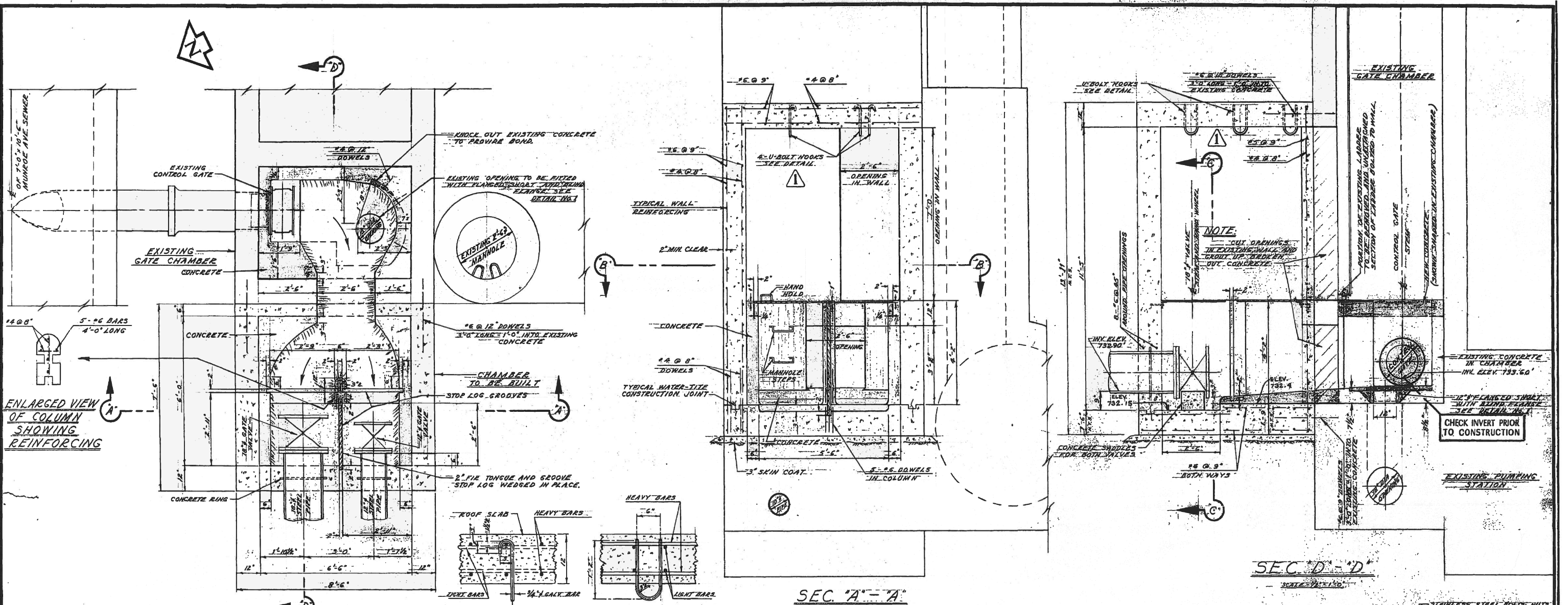
RED RIVER CROSSING FROM MUNROE PUMPING STA. TO POLSON AVE. COMM. STA.

DESIGNED BY: R.M.G.
DRAWN BY: V.D. 18
CHECKED BY: V.D. 18
DATE: 28 SEP 64

DRAWING NO. **503**

SCALE: 1" = 10' VERT. 1" = 10'

NOTE: FOR 500.0 PLAN ORIGINAL USED WITH WINNIPEG LAND TITLES OFFICE DEPT. OF PUBLIC WORKS OF W.A. SEE SEPIA OF DWG. NO. 503



FLOOR PLAN

**CROSS-SECTION LONG SECTION
DETAIL OF U-BOLT HOOK**
SCALE - 1" = 1'-0"

SEC. 'A' - 'A'

SEC. 'D' - 'D'
SCALE - 1/2" = 1'-0"

SEC. 'B' - 'B'
PLAN OF GRATINGS

SEC. 'C' - 'C'
SCALE - 1/2" = 1'-0"

**LOCATION OF PILES
ON FLOOR SLAB**
SCALE - 3/4" = 1'-0"

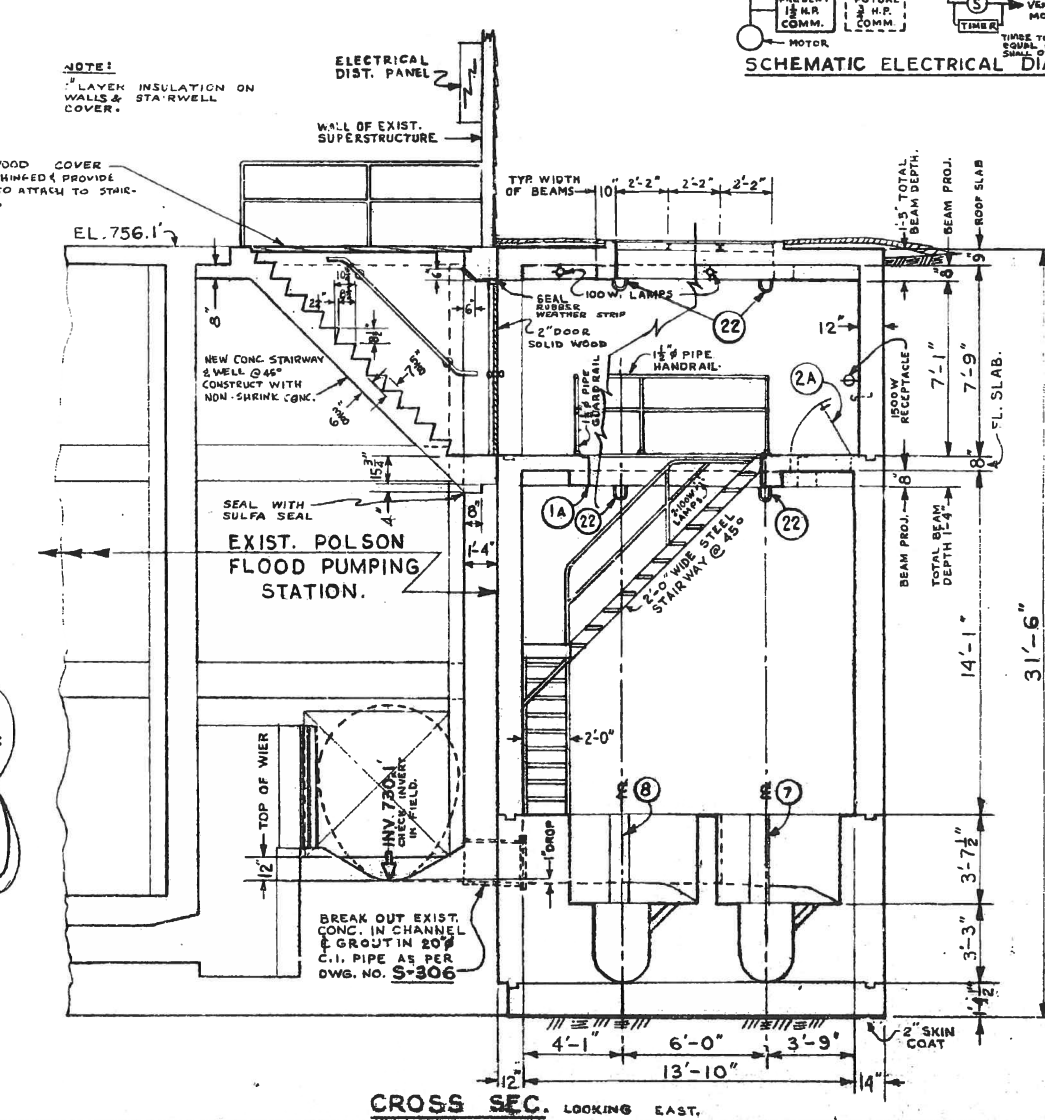
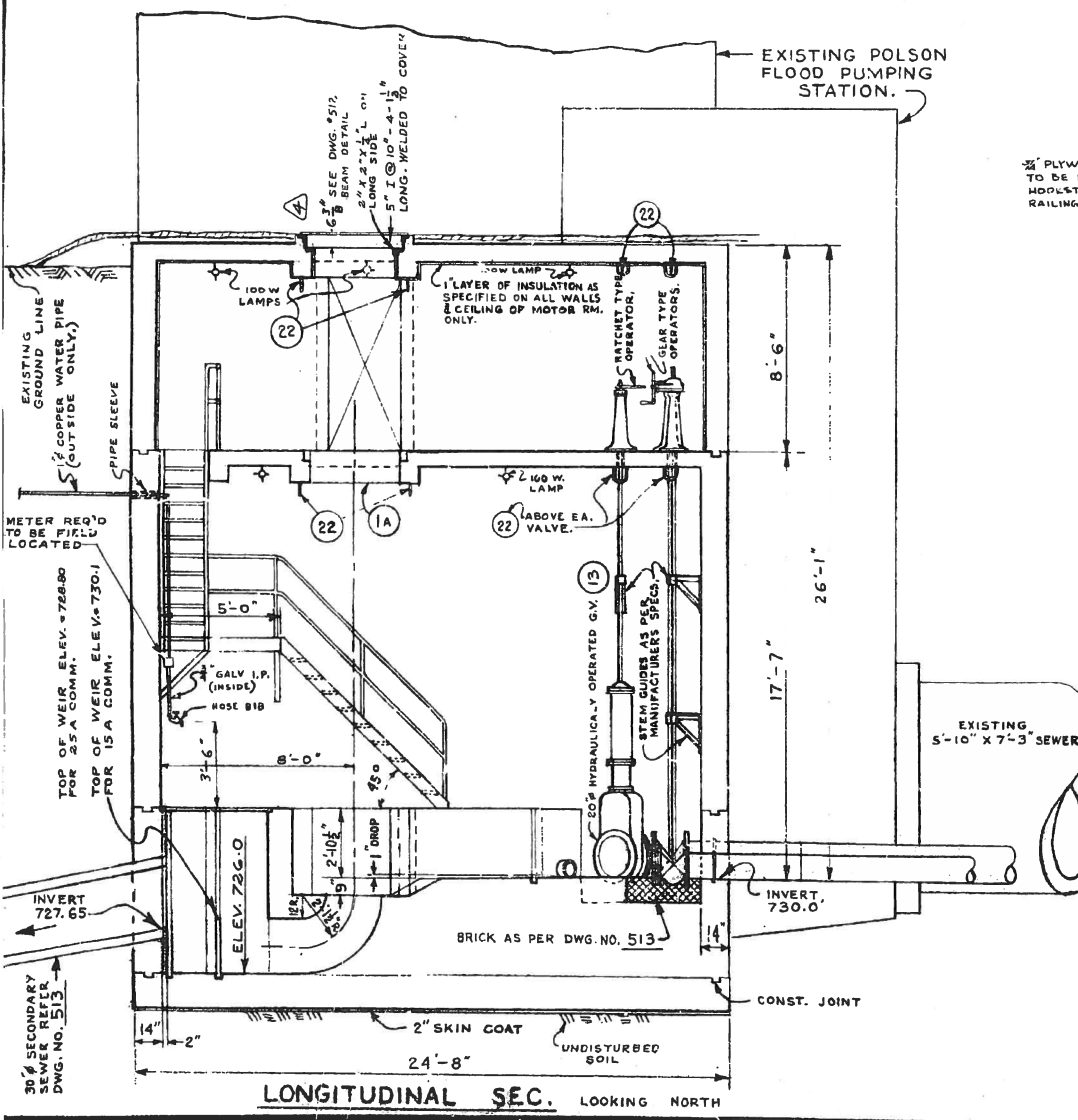
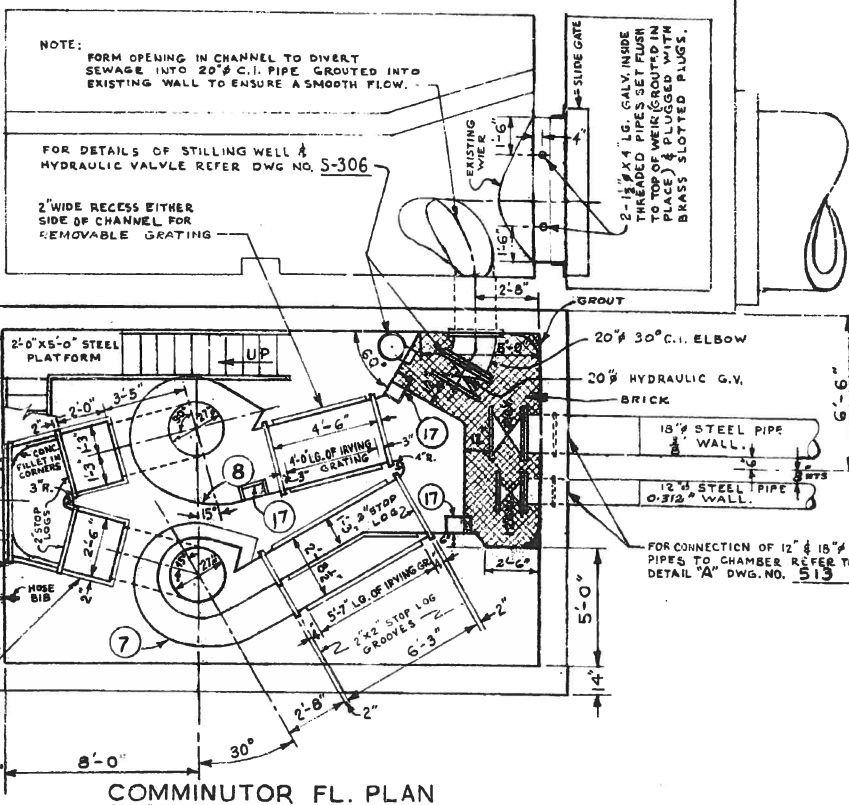
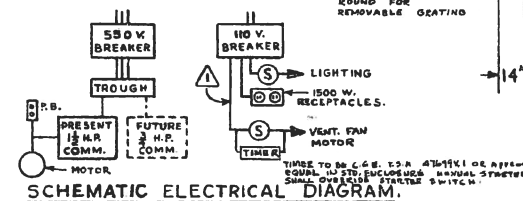
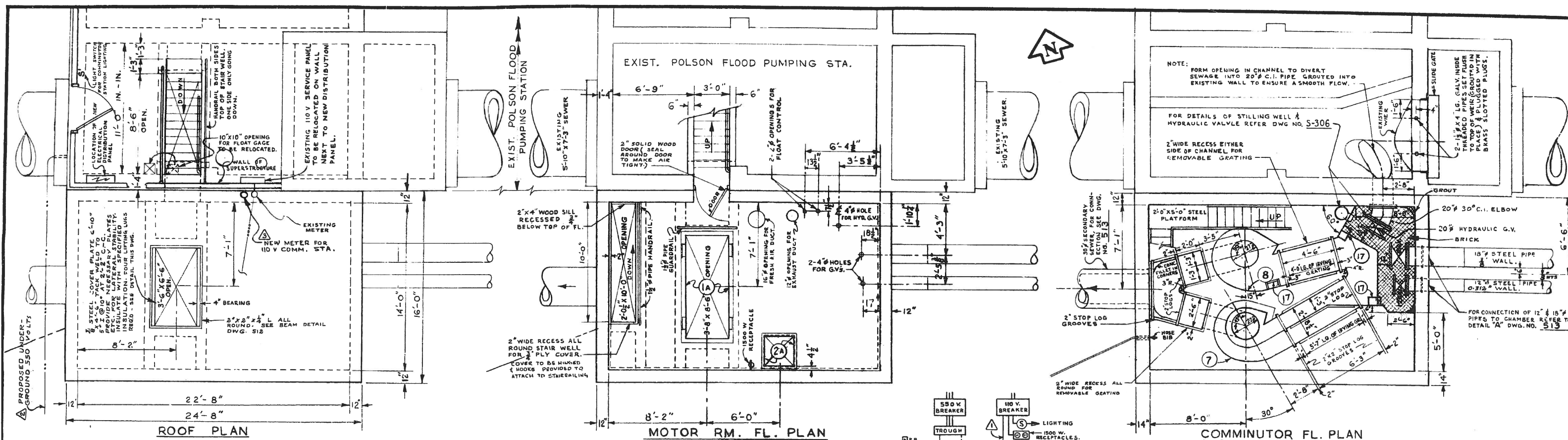
DETAIL No. 1
SCALE - 1" = 1'-0"

NO.	DESCRIPTION	DATE	BY
AS CONSTRUCTED		10 NOV. 65	A.G.
1	TYPE OF 'IRVING' GRATE	26 NOV. 64	S.R.
2	FLOORS: ERA TRIGLITE	26 NOV. 64	S.R.
3	CONCRETE PILES	26 NOV. 64	S.R.
4	USE OF PRECAST PILES AS	26 NOV. 64	S.R.
5	ALUMINUM GRATING	26 NOV. 64	S.R.
6	DETAIL OF U-BOLT HOOK AND	26 NOV. 64	S.R.
7	U-BOLT HOOK DETAIL AND	26 NOV. 64	S.R.

REVISIONS	
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG	SEWER DISPOSAL DEPT.
WATERWORKS & WASTE DISPOSAL DIVISION	MUNROE - POLSON RIVER CROSSING
N. S. BUBBIS - DIRECTOR	AVE. PUMPING STATION & PROX. SAPHON INLET CHAMBER



SEWER DISPOSAL DEPT.		MUNROE - POLSON RIVER CROSSING	
DES. R. GIRLING CH'ED. G.E.B.	SCALE 1/2" = 1'-0"	DRN. S.R.	DATE 18. NOV. 64
ENGR. DES. J. Burns	AND AS NOTED.	ENGR. WASTE DES. A. Burns	DRAWING NO.
APPROVED			506



NOTES

- GRATING TO BE IRVING TYPE A A X-BAR OR APPROVED EQUAL, HOT DIP GALV. AFTER FABRICATION.
- STOP LOGS TO BE 2" FIR TONGUE & GROOVE WEDGED IN PLACE.
- ALL ANCHOR BOLTS NOT IN CONTACT WITH SEWAGE TO BE HOT DIPPED GALV.
- ALL ANCHOR BOLTS IN CONTACT WITH SEWAGE TO BE CADMIUM PLATED.
- THE CONTRACTOR IS TO ENSURE AN AIRTIGHT SEAL FOR ALL OPENINGS TO THE OUTSIDE ATMOSPHERE, THIS INCLUDES THE ROOF HATCH AND ENTRANCE DOOR BETWEEN THE FLOOD PUMPING STATION AND THE NEW COMMUNICATOR STRUCTURE.
- HATCH COVER IN ROOF TO BE PAINTED LAMP POST GREEN.
- THE CONTRACTOR IS TO FIELD CHECK ALL INVERTS PRIOR TO CONSTRUCTION.
- ALL EXPOSED MISC. METAL WORK TO BE HOT DIP GALV. AFTER FABRICATION.
- GALV. PIPE SLEEVES REQ'D FOR 1" WATER SERVICE. SEAL EA. FACE WITH SULFA SEAL OR APPROVED EQUAL.
- STAIR NOSINGS TO BE EDGED 1/8" RADIUS.
- STAIR WELL COVERS TO BE 3/4" PLYWOOD WITH 2" x 4" FRAME REINFORCING & PROVIDED WITH LIFTING LUGS.

LIFTING LUG DETAIL FOR ROOF HATCH COVER
 SCALE 1/2" = 1'-0"
 NOTE: LUG TO SWING FREELY

NO.	DESCRIPTION	DATE BY
1	BEAM DIMENSION INCREASED TO 2" x 4" x 1/2"	FEB 26/65 V.D.
2	LOCATION OF NEW 110 V METER AS PER ADDENDUM NO. 1	6 JAN 65 H.B.
3	UNDERSIDES TO BE SUPPLY AS PER ADDENDUM NO. 1	6 JAN 65 H.B.
4	SCHEMATIC ELECTRICAL DIAGRAM AS PER ADDENDUM NO. 1	6 JAN 65 H.B.

REVISIONS

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
 N. S. BURBIS - DIRECTOR

SEWAGE DISPOSAL DEPT.
POLSON COMMUNICATOR STA CONSTRUCTION DETAILS

DES. R. GIRLING CH'K'D. J. BURMAN
 ENGR. H. BUXMAN DATE 28 DEC. 64
 ENGR. WASTE DISP. J. BURMAN
 APPROVED [Signature]

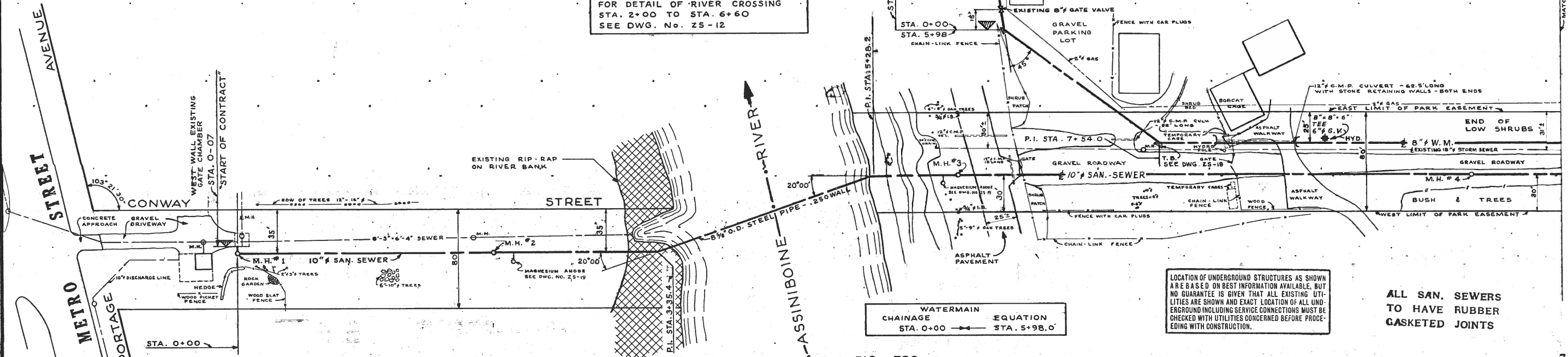
SCALE 1/2" = 1'-0"
 DRAWING NO. **511**



CITY OF ST. JAMES

ASSINIBOINE PARK
CITY OF WINNIPEG

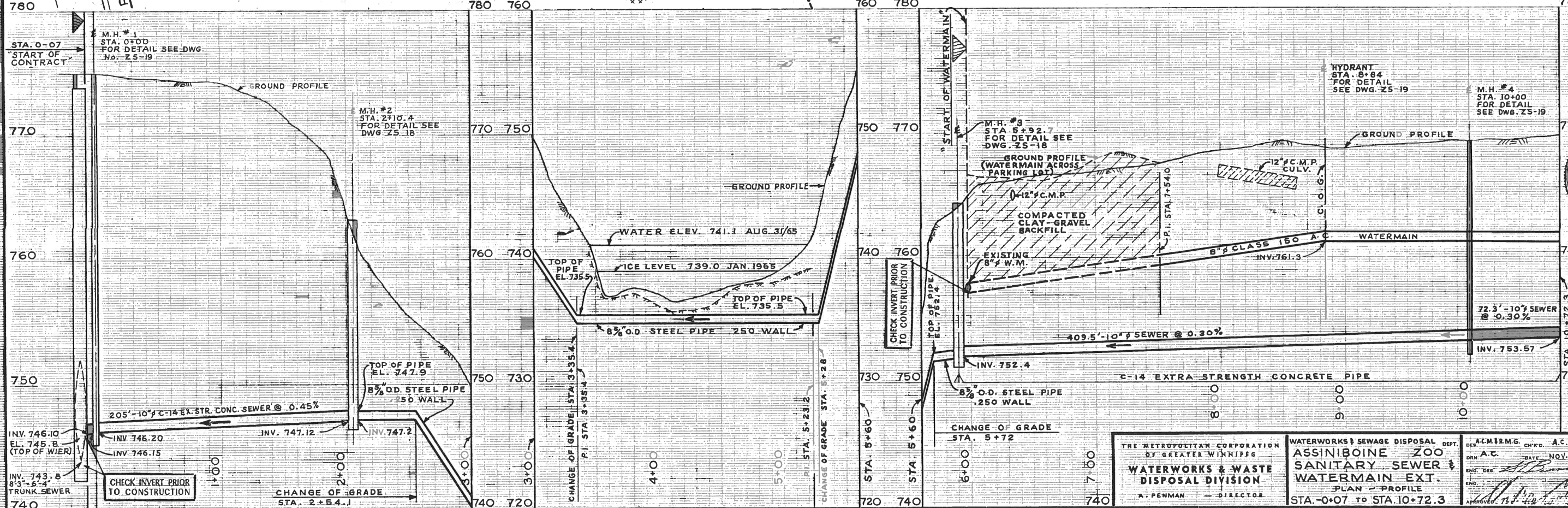
FOR DETAIL OF RIVER CROSSING
STA. 2+00 TO STA. 6+60
SEE DWG. No. Z5-12



WATERMAIN CHAINAGE EQUATION
STA. 0+00 → STA. 5+98.0

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN AND EXACT LOCATION OF ALL UNDERGROUND INCLUDING SERVICE CONNECTIONS MUST BE CHECKED WITH UTILITIES CONCERNED BEFORE PROCEEDING WITH CONSTRUCTION.

ALL SAN. SEWERS TO HAVE RUBBER GASKETED JOINTS



THE METROPOLITAN CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION A. PENNAN - DIRECTOR	WATERWORKS & SEWAGE DISPOSAL DEPT. ASSINIBOINE ZOO SANITARY SEWER & WATERMAIN EXT. PLAN - PROFILE STA. 0+07 TO STA. 10+72.3	A.C.M.R.M.G. CH'RD. A.C.M. DRN. A.C. DATE NOV. 65 ENG. DES. <i>[Signature]</i> APPROVED <i>[Signature]</i>	SCALES HORIZ. 1" = 40' VERT. 1" = 4' DRAWING NO. Z5-13
		AS CONSTRUCTED MAY 24, 1967 A.C. ANDREW CURRIE Director of Parks & Protection Micro-Filmed 1968	

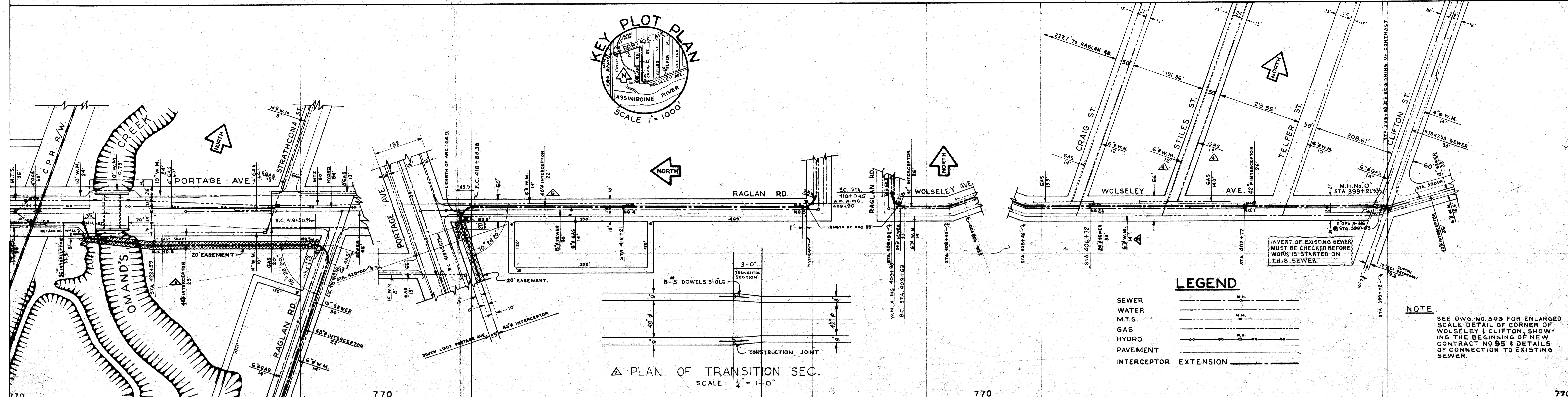
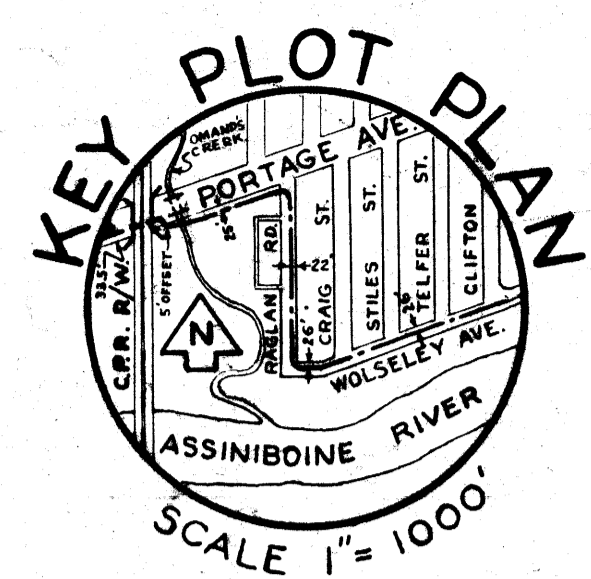
file # IN 10084

294 A

REF. or DRAWING No.

this says 294 in 116 book
 the ORIGINAL 294 Rev 2 is called 294 IN 10084
 (THIS DWG WAS MICROFILMED) SO MAKE THIS 294 A (THIS IS REVISION 7)

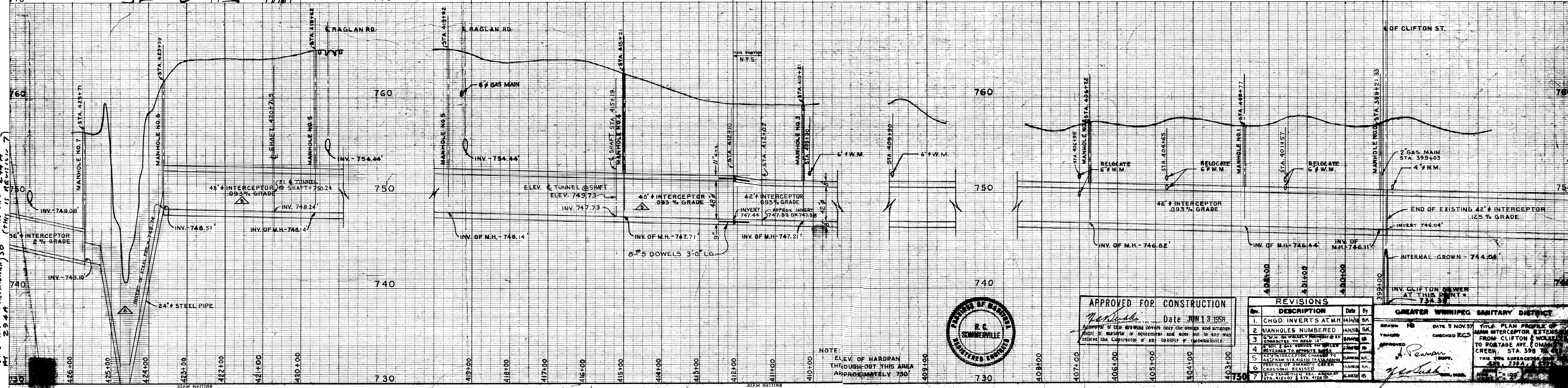
ONLY HAVE MICROFILM FOR REV 2 HAVE ORIGINAL FOR REV 4



LEGEND

SEWER	---
WATER	---
M.T.S.	---
GAS	---
HYDRO	---
PAVEMENT	---
INTERCEPTOR EXTENSION	---

NOTE:
 SEE DWG. NO. 303 FOR ENLARGED SCALE DETAIL OF CORNER OF WOLSELEY & CLIFTON SHOWING THE BEGINNING OF NEW CONTRACT NO. 95 & DETAILS OF CONNECTION TO EXISTING SEWER.



APPROVED FOR CONSTRUCTION
 Date JUN 13 1959

REVISIONS

REV.	DESCRIPTION	DATE	BY
1	CHGD. INVERTS AT M.H.	4/4/59	SK
2	MANHOLES NUMBERED	4/15/59	SK
3	CONNECTION TO ROAD 14'	5/1/59	SK
4	REVISIONS TO APPROXIMATE SIZES	5/1/59	SK
5	42" INTERCEPTOR CHANGED TO 48" FROM STA. 412+00 TO STA. 412+70	5/1/59	SK
6	PROFILE OF OMAMIC CREEK CROSSING REVISED	5/1/59	SK
7	TOP TRANSITION SEC. APPROX. STA. 412+07 TO STA. 412+70	5/1/59	SK

GREATER WINNIPEG SANITARY DISTRICT
 DRAWN BY DATE 5 NOV. 57 TITLE: PLAN PROFILE OF MAIN INTERCEPTOR EXTENSION FROM CLIFTON ST. TO PORTAGE AVE. & OMAMIC CREEK, STA. 398 TO 412
 CHECKED BY
 APPROVED BY
 THIS DWG SUPERSEDES 294, 299A, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

AS CONSTRUCTED 24 NOV. 59 - IB
 Micro-Film 1965

LANDRAIL

CREEK

SOUTH BOUNDARY OF PORTAGE AVENUE

OF INTERCEPTOR

24" STEEL PIPE

CONC. THRUST BLOCK

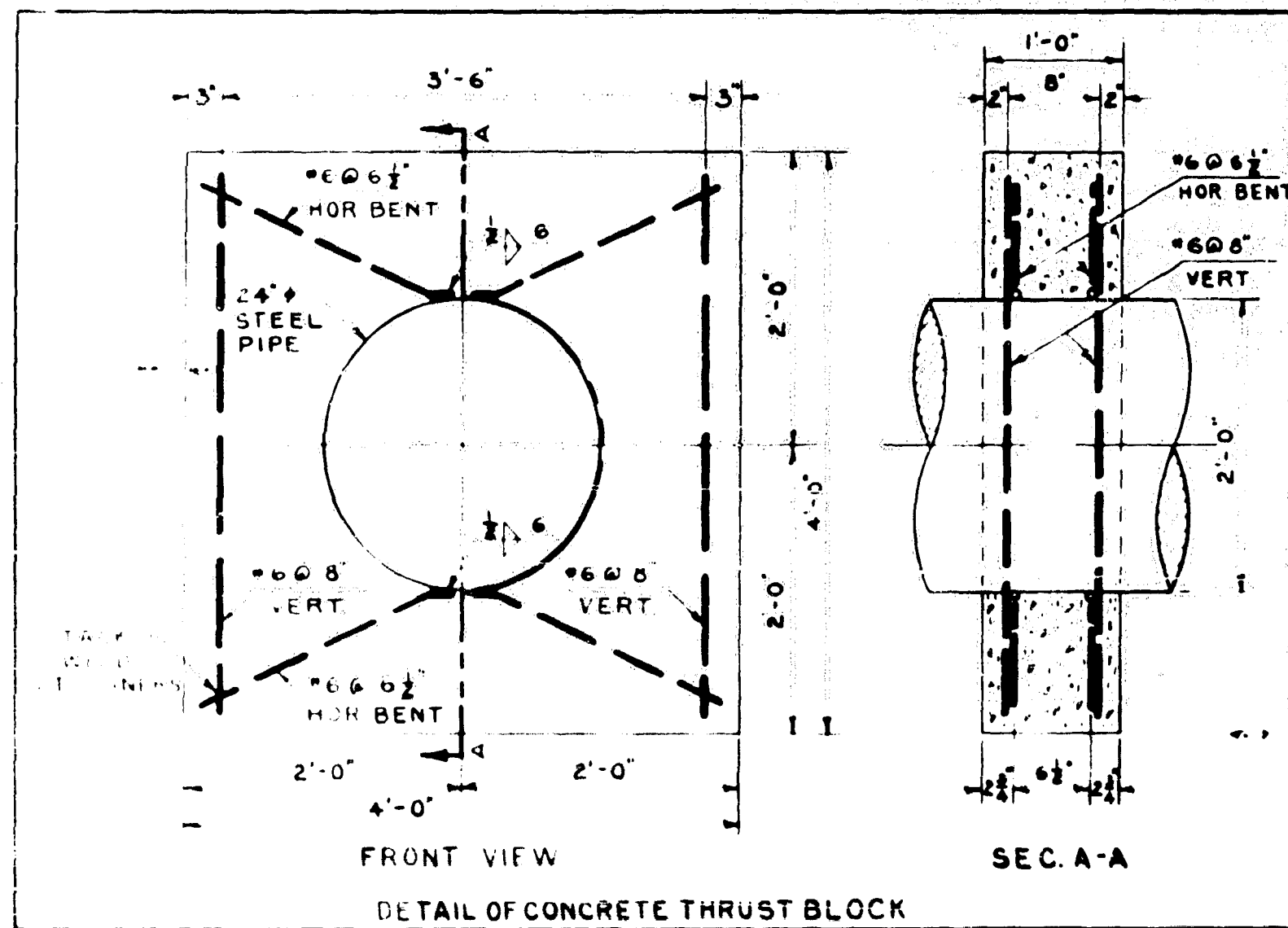
EAST SHAFT

M.H. NO. 6

42" INTERCEPTOR

LEGEND

WATER
INTERCEPTOR EXTENSION



770

770

760

760

750

750

740

740

730

730

Basin of Omand's Creek

PROFILE ON INTERCEPTOR

42" INTERCEPTOR
.088% GRADE

CONCRETE THRUST BLOCK
SEE DETAIL

INV. - 748.39

MANHOLE NO. 6

STA. 423+61

STA. 423+61

423+50



GREATER MINNEAPOLIS SANITARY DISTRICT

DESIGNED BY	DATE	TYPE
CHECKED BY	REVISED	DESCRIPTION
<p>PLAN PROFILE OF MAIN INTERCEPTOR EXTENSION, PORTAGE AVE. - OMAND'S CREEK CROSSING</p>		<p>SCALE: 1" = 1'-0"</p>

424+75

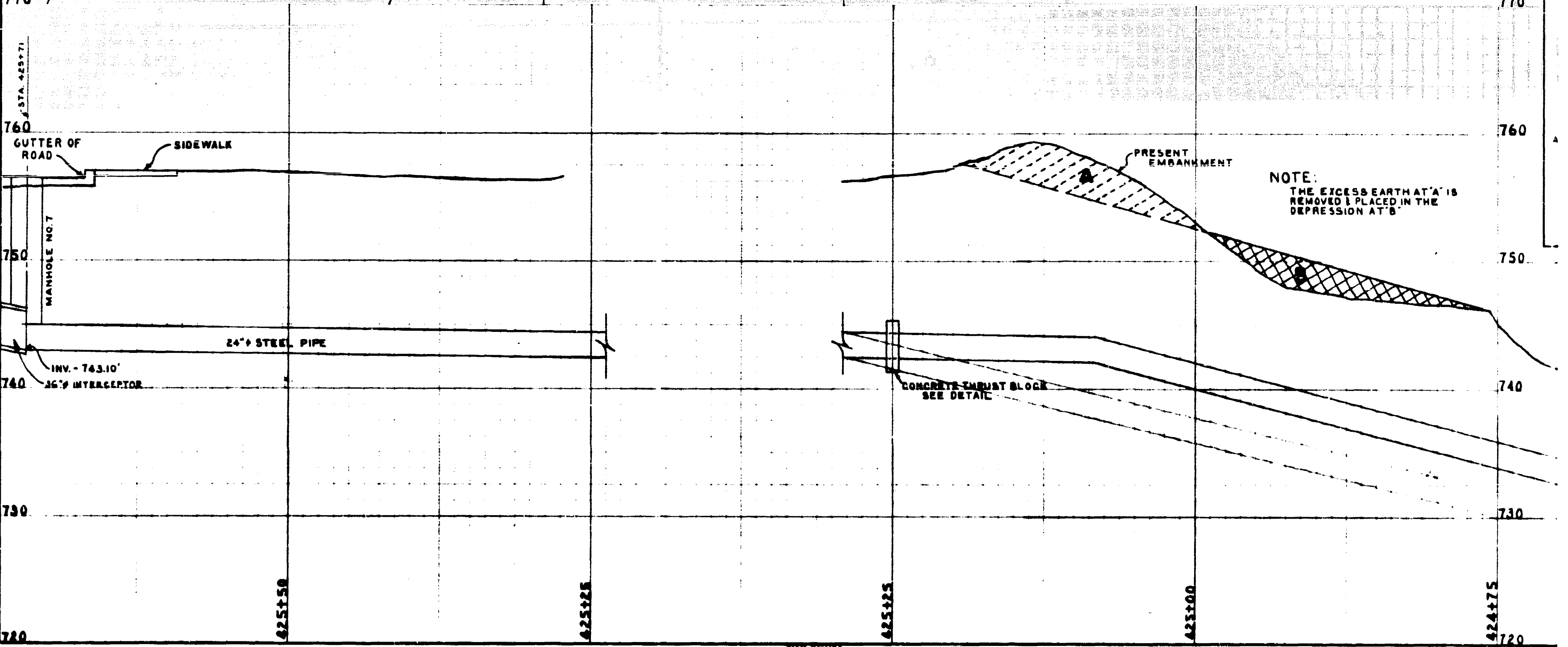
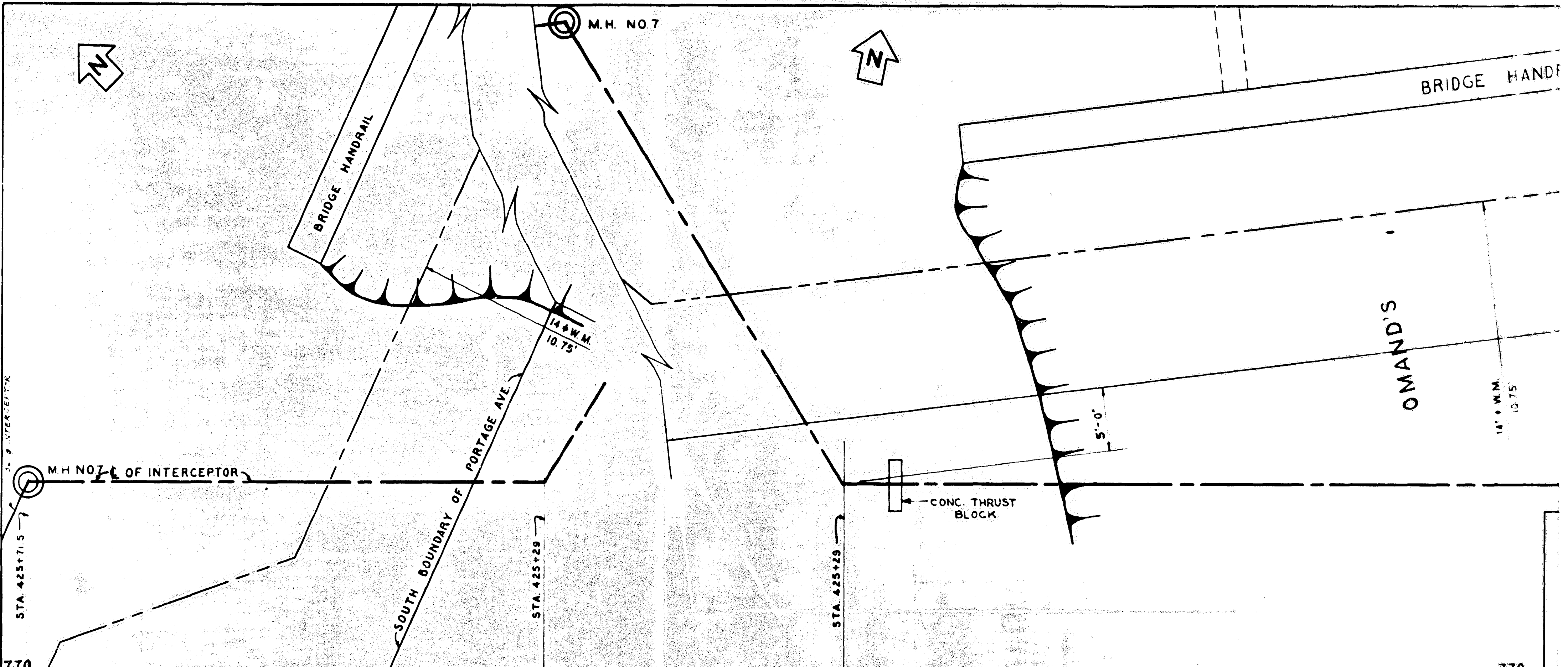
424+50

424+25

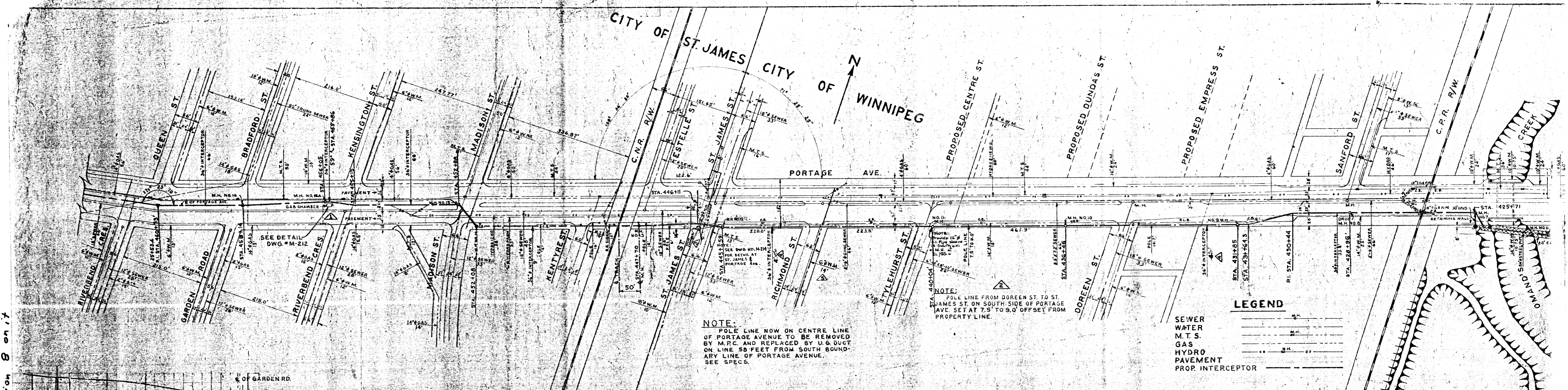
424+00

423+75

720



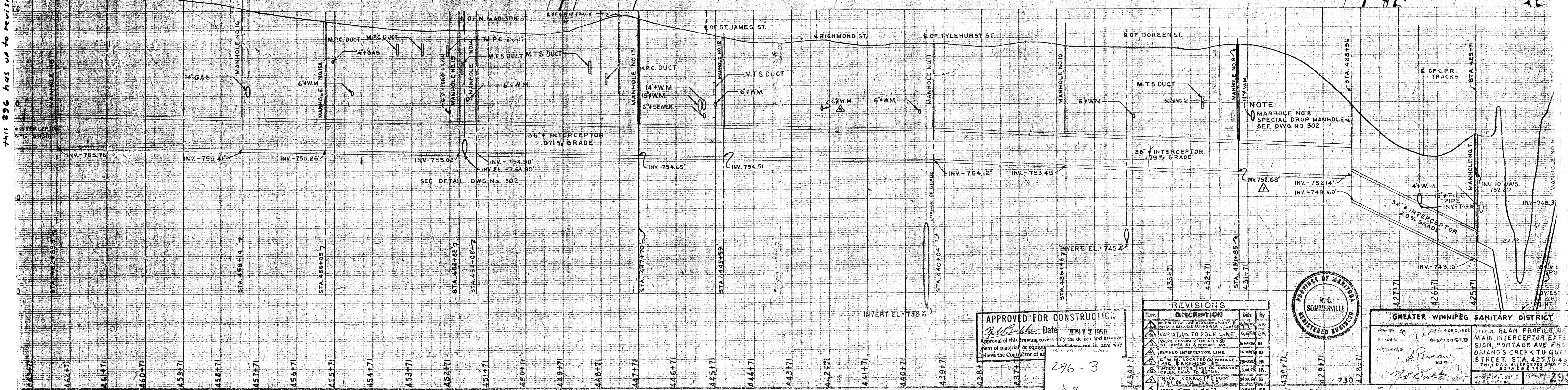
295-296-3 IN 1085
 REF. OF DRAWING NO.
 DETAILS
 THIS 296 has up to revision B on it



NOTE:
 POLE LINE NOW ON CENTRE LINE OF PORTAGE AVENUE TO BE REMOVED BY M.R.C. AND REPLACED BY U.G. DUCT ON LINE 50 FEET FROM SOUTH BOUNDARY LINE OF PORTAGE AVENUE. SEE SPECS.

NOTE:
 POLE LINE FROM DOREEN ST. TO ST. JAMES ST. ON SOUTH SIDE OF PORTAGE AVE. SET AT 7.5' TO 9.0' OFFSET FROM PROPERTY LINE.

NOTE:
 MANHOLE NO. 8 SPECIAL DROP MANHOLE SEE DWG. NO. 302



APPROVED FOR CONSTRUCTION
 Date JUN 13 1959
 Approval of this drawing covers only the design and arrangement of material or equipment and does not in any way relieve the Contractor of his responsibility for proper construction.

REVISIONS

NO.	DESCRIPTION	Date	By
1	INTERCEPTOR LINE AT KENSINGTON ST. & PORTAGE AVE. AND MANHOLE NO. 8	6/15/59	SK
2	VARIATION TO POLE LINE	6/15/59	SK
3	VALVE COVER LOCATED @ ST. JAMES ST. & PORTAGE AVE.	REMOVED	SK
4	REVISED INTERCEPTOR LINE	REMOVED	SK
5	G.W.M. LOCATED @ PORTAGE AVE. & RICHMOND ST.	REMOVED	SK
6	INTERCEPTOR EXT. FROM O'MAND'S CREEK TO PORTAGE AVE.	REMOVED	SK
7	INVERT CORRECTED FROM 751.88 TO 752.66	REMOVED	SK
8	ADDED 18" WWS AT M.H. 7	REMOVED	SK

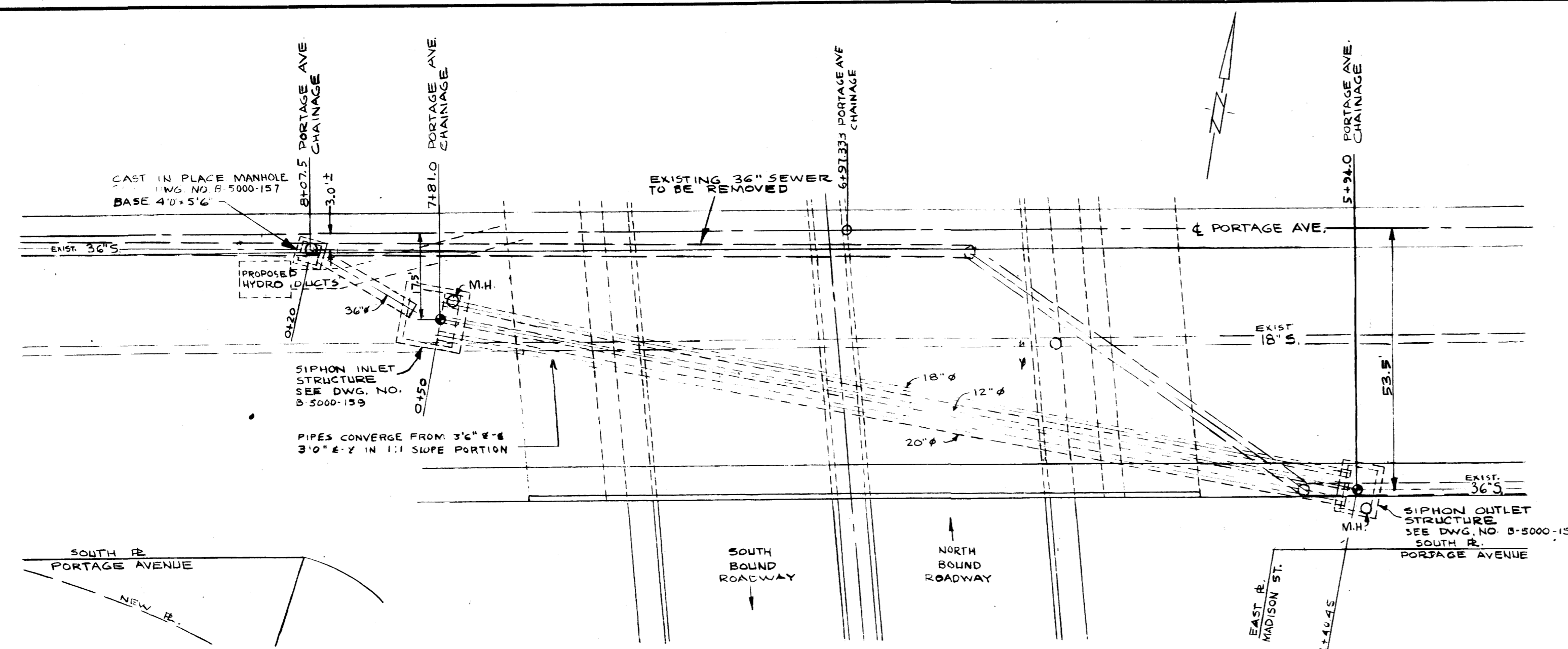


GREATER WINNIPEG SANITARY DISTRICT

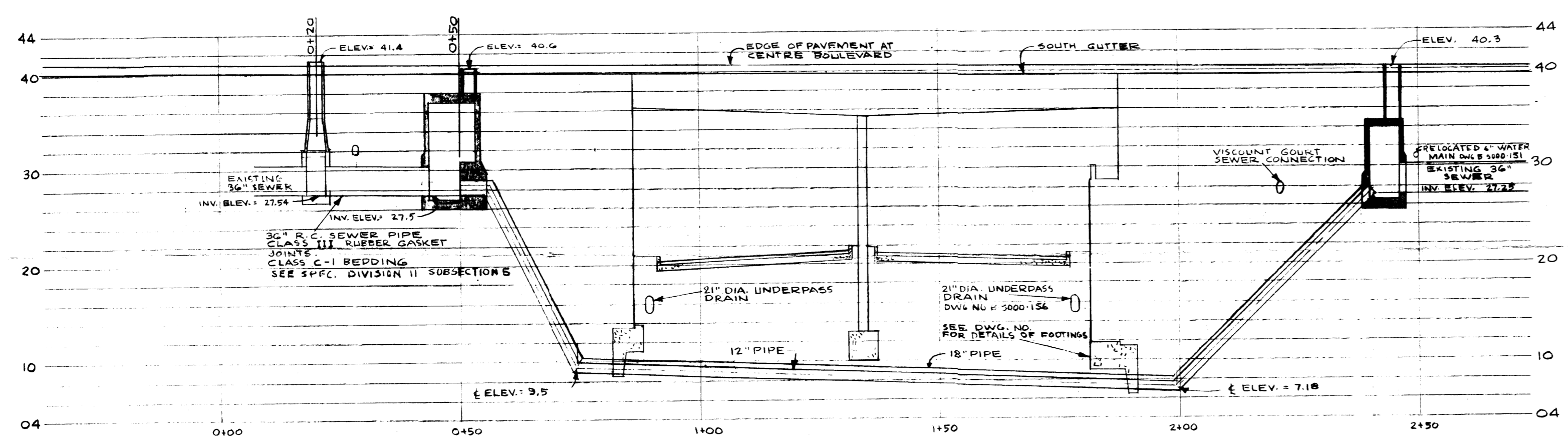
TITLE: PLAN PROFILE OF MAIN INTERCEPTOR EXTENSION, PORTAGE AVE FROM O'MAND'S CREEK TO QUEEN STREET, S.A. 425 TO 450

DATE: 296-3

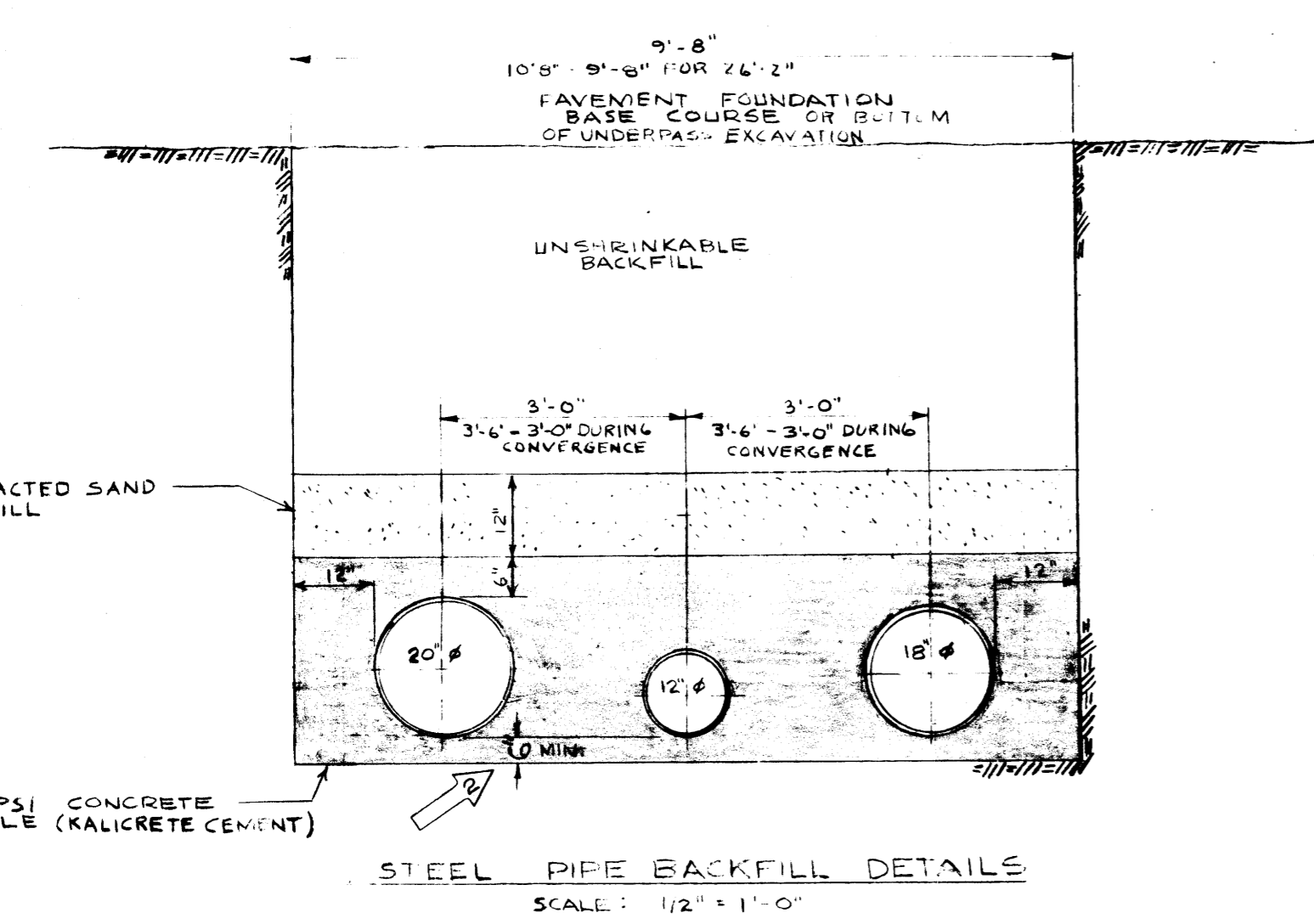
AS CONSTRUCTED 26 NOV. 59 HB



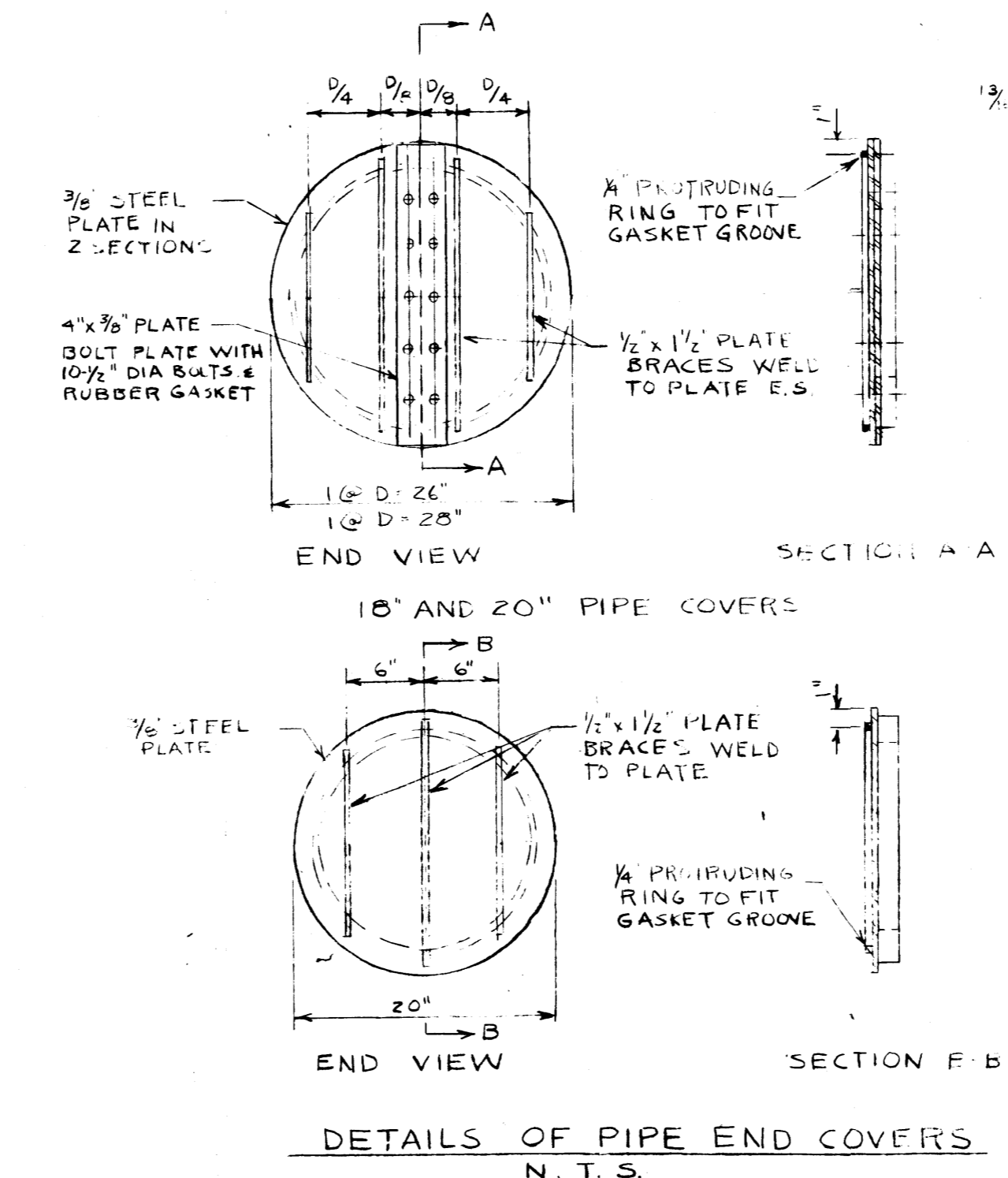
PLAN
SCALE: 1" = 20'-0"



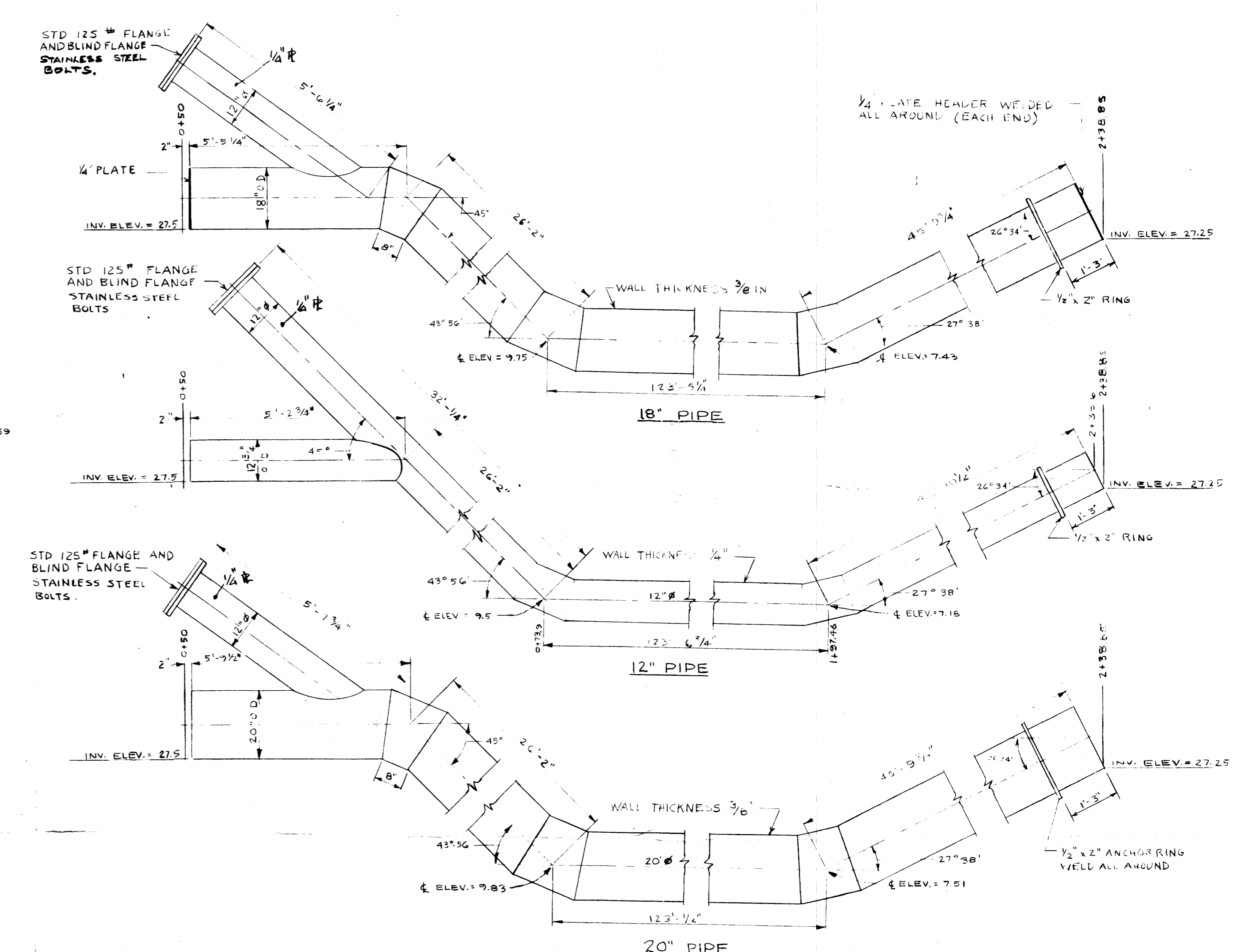
PROFILE
SCALE: HOR. 1" = 20'-0"
VERT. 1" = 10'-0"



STEEL PIPE BACKFILL DETAILS
SCALE: 1/2" = 1'-0"



DETAILS OF PIPE END COVERS
N. T. S.



WELDED STEEL PIPE DETAILS
SCALE: 1/2" = 1'-0"

- NOTE:
- CONTRACTOR SHALL SUPPLY DETAILED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION OF PIPES. LOCATION OF FIELD WELDS MUST BE CLEARLY SHOWN.
 - STEEL TO CONFORM TO A.S.T.M. A-283 GRADE B OR C.
 - FINISH: ALL PIPES TO BE CLEANED BY SAND BLASTING UPON COMPLETION OF SHEET FABRICATION. PORTIONS OF PIPES NOT ENCASED IN CONCRETE SHALL BE PAINTED WITH TWO COATS OF LIQUID NEOPRENE. PIPES ENCASED IN CONCRETE TO BE PRIME AND FINISH AS SPECIFIED. FIELD SPACES SHALL BE WRAPPED WITH POLYAN NO. 901, 2" WIDE TAPE TO BE LAPPED 1/2" AND TO EXTEND TO COVER A MIN. OF 2" OF PAINTED PIPE ON EITHER SIDE OF JOINT.
 - HANDLING OF BASE CABLES, CHAINS, HOOKS, METAL BARS OR NARROW SKIDS SHALL NOT BE PERMITTED TO COME IN CONTACT WITH THE FINISHED PIPE. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER BEFORE PIPE IS LOWERED INTO THE TRENCH.

Originally approved
On 11/62
for approval
[Signature]
DIRECTOR

DATE	ISSUE No.	REV. No.	DESCRIPTION	DRAWN BY
MAR 4/62	3	2	PIPE COATING & CONC. GRADE DEPTH REVISED	R.M.
FEB 12/62	2	1	FOR CONSTRUCTION	A.M.
FEB 12/62	1		CONCRETE IN PIPE CRADLE 2500 P.S.I.	A.M.
JAN 15/62			FOR TENDER	A.M.

ISSUE OR REVISION

METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. JAMES BRIDGE AND INTERCHANGE

INVERTED SIPHON
GENERAL ARRANGEMENT AND PIPE DETAILS

TEMPLETON ENGINEERING COMPANY
PROFESSIONAL ENGINEERS
WINNIPEG, MANITOBA

IN ASSOCIATION WITH
A. D. MARGISON AND ASSOCIATES LIMITED
CONSULTING PROFESSIONAL ENGINEERS
TORONTO, CANADA

APPROVED
[Signature]
DIRECTOR OF STREETS AND TRANSIT

DRAWN BY
R.M.

CHECKED
A.M.

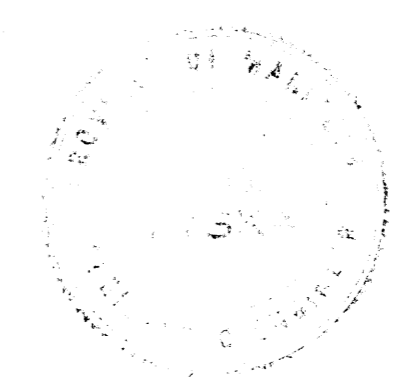
DATE
NOVEMBER, 1962

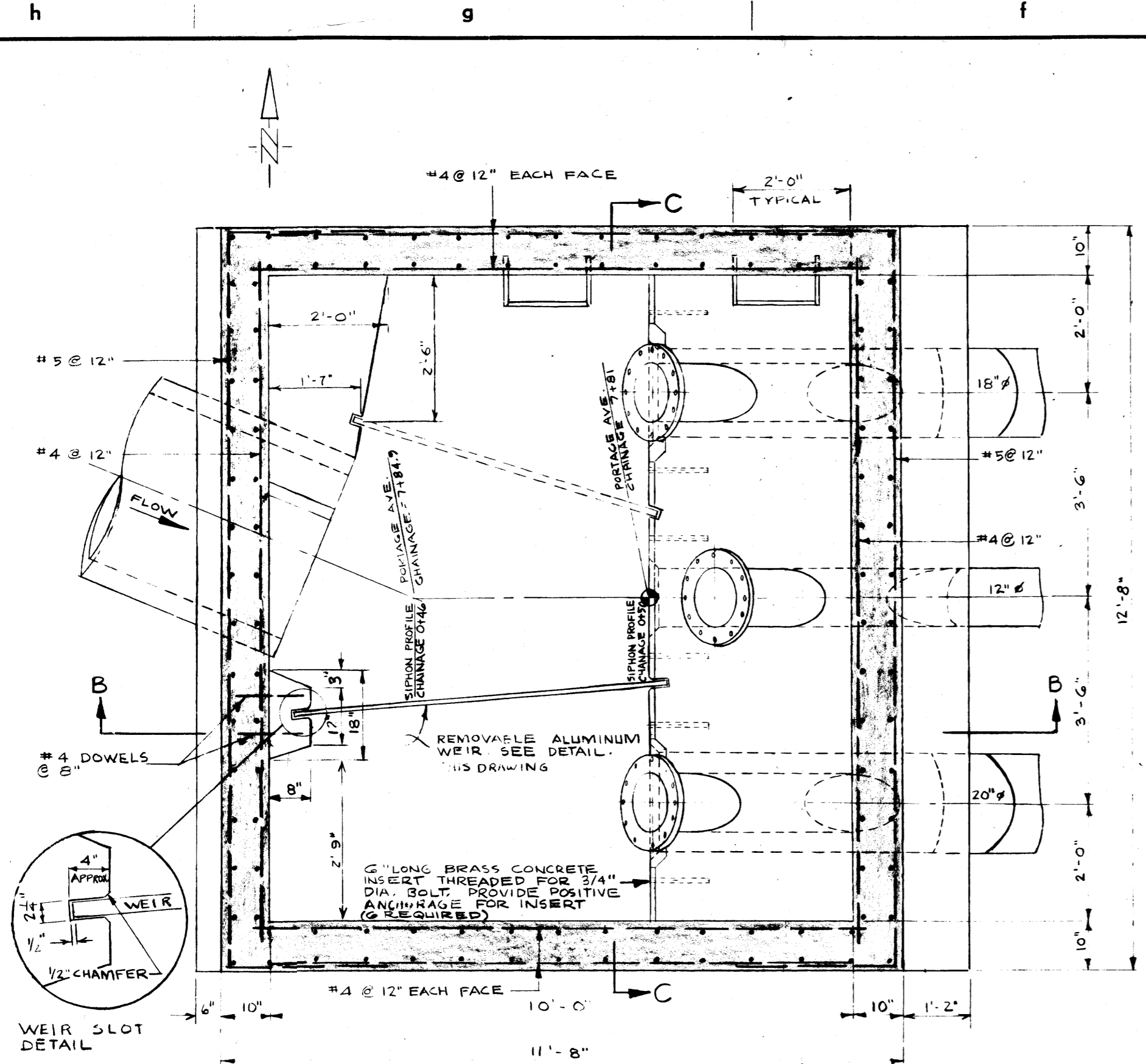
SCALE
AS SHOWN

FILE No.
B-5000-158

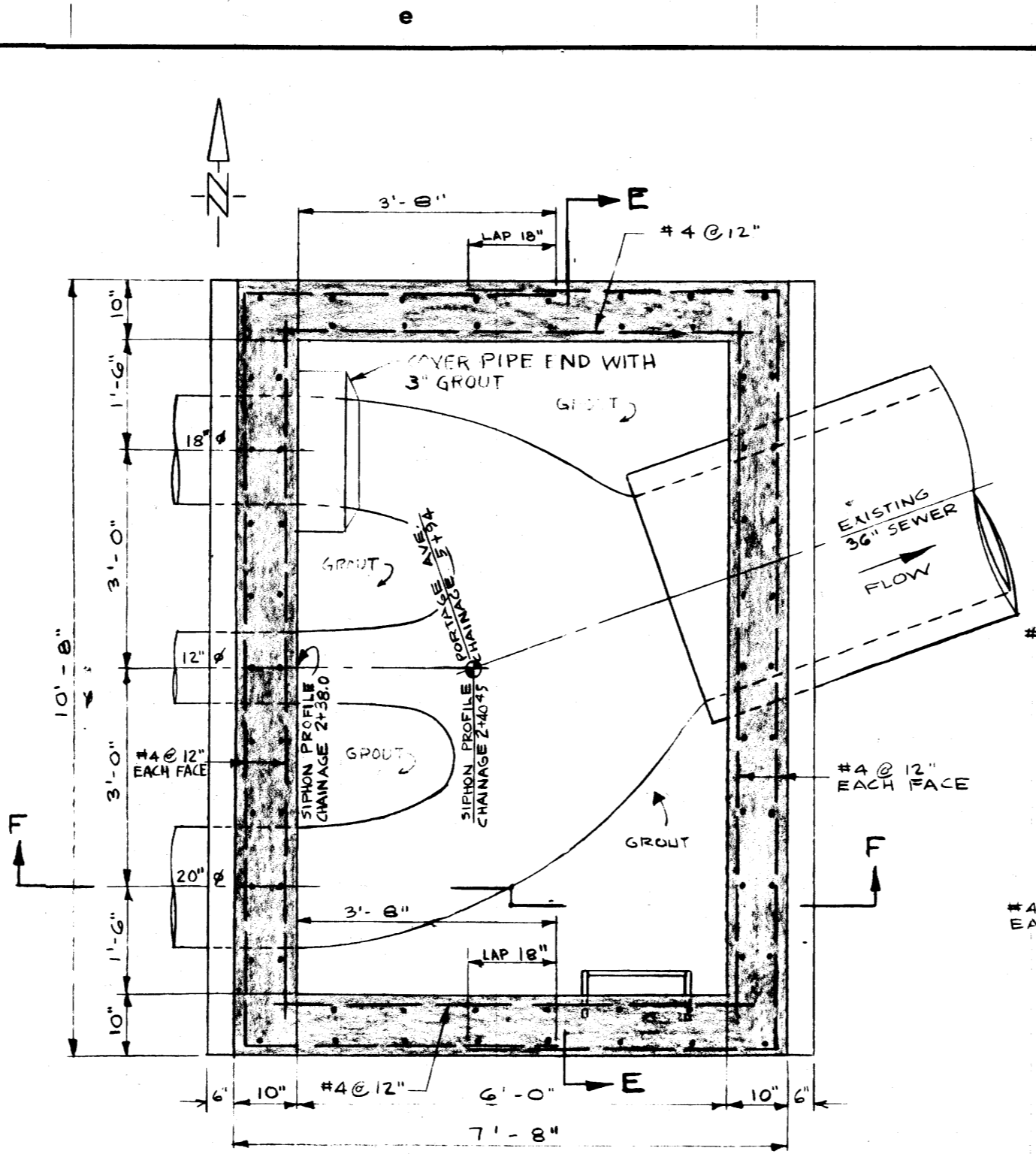
DWG. No.
SHEET No.

296-B

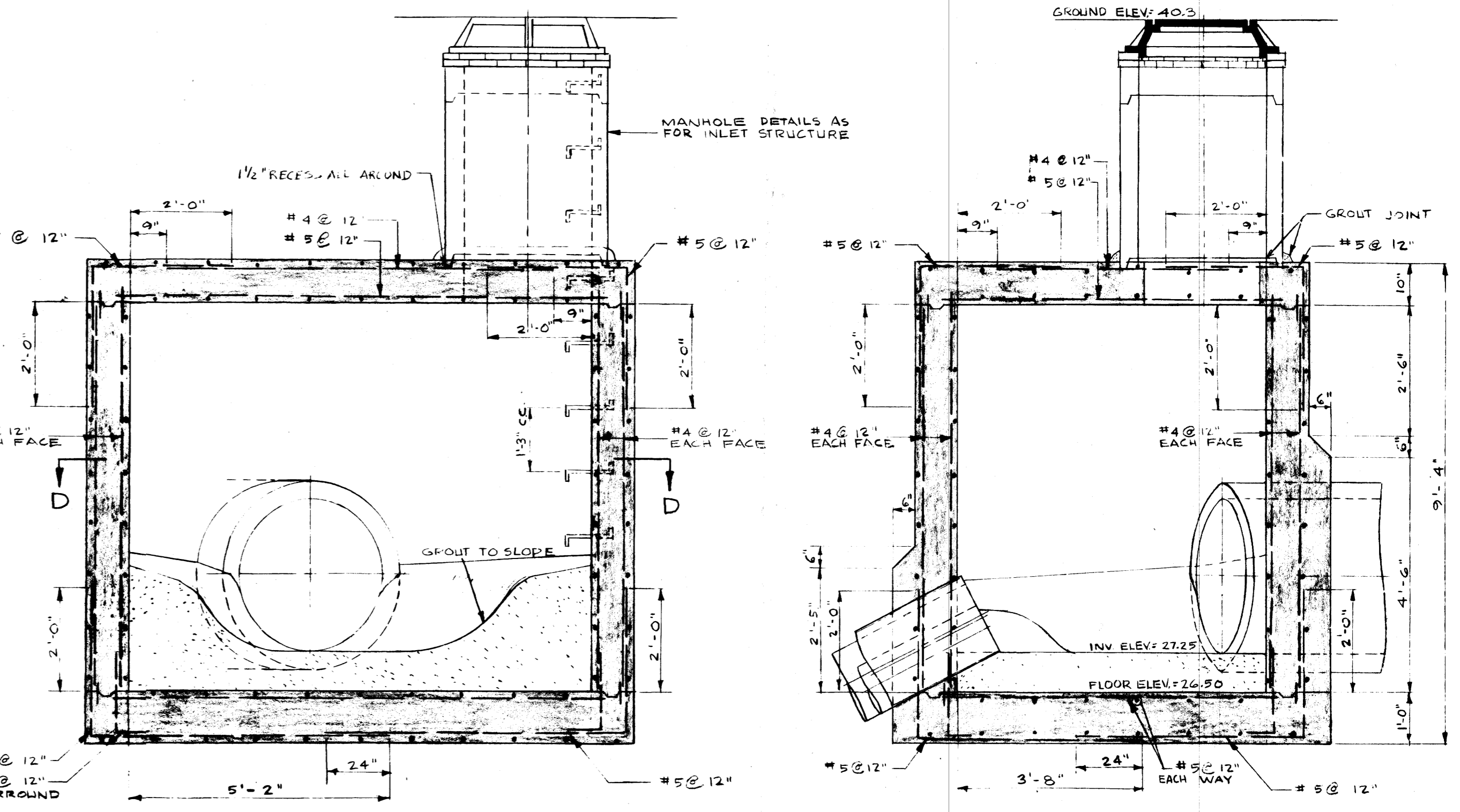




SECTION A-A



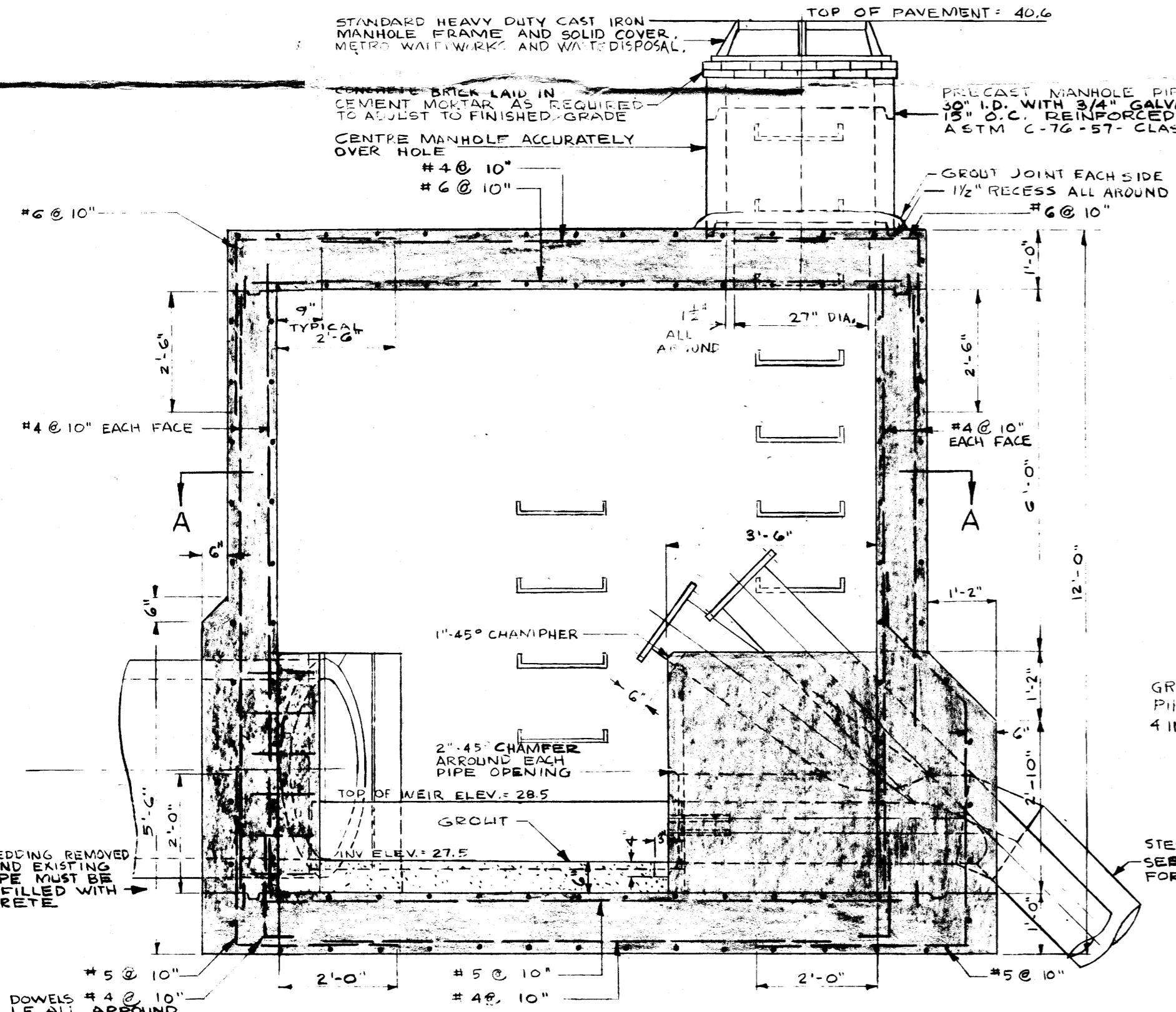
SECTION D-D
(OUTLET STRUCTURE)



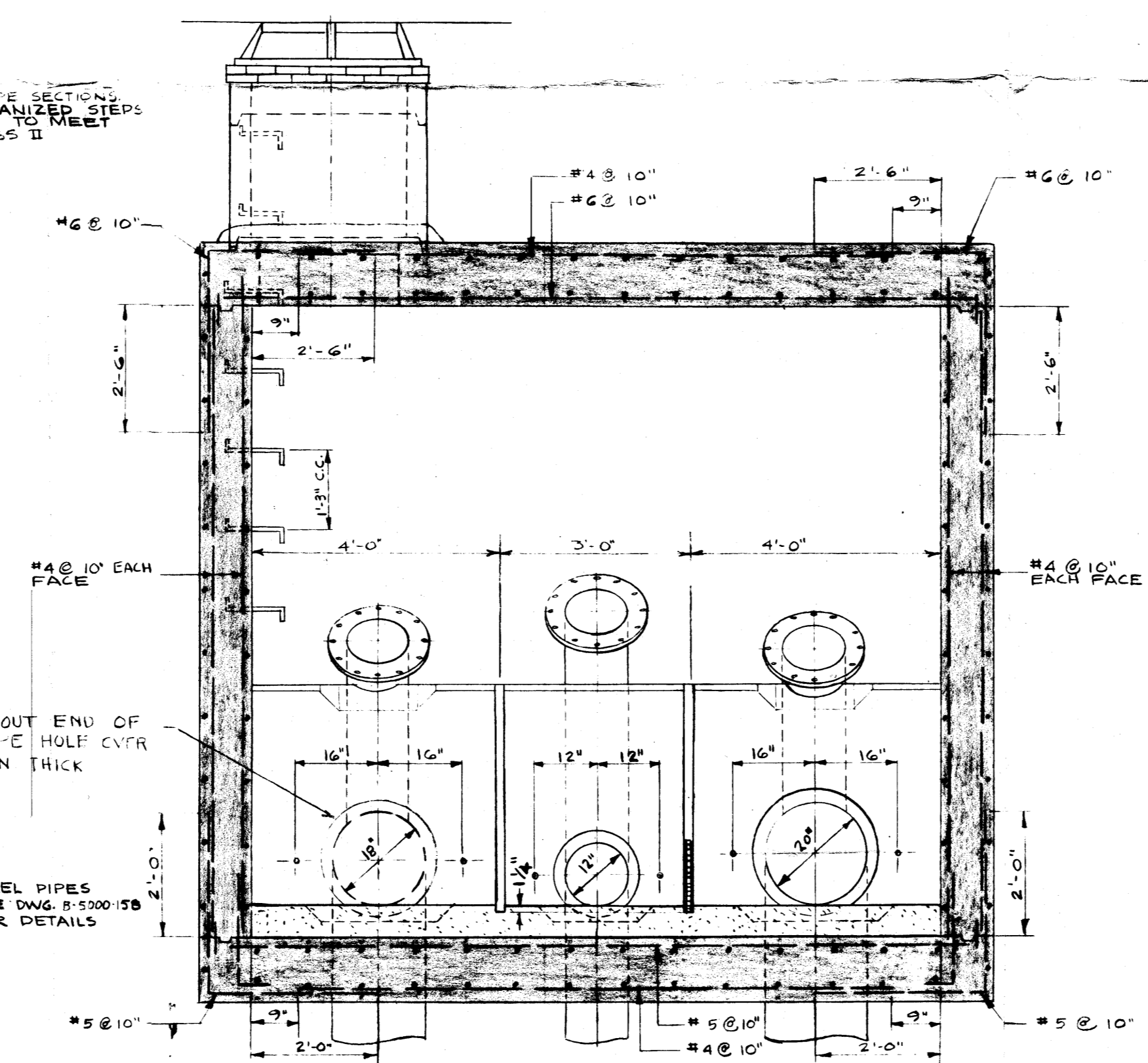
SECTION E-E

SECTION F-F

OUTLET STRUCTURE
SCALE: 1/2" = 1'-0"

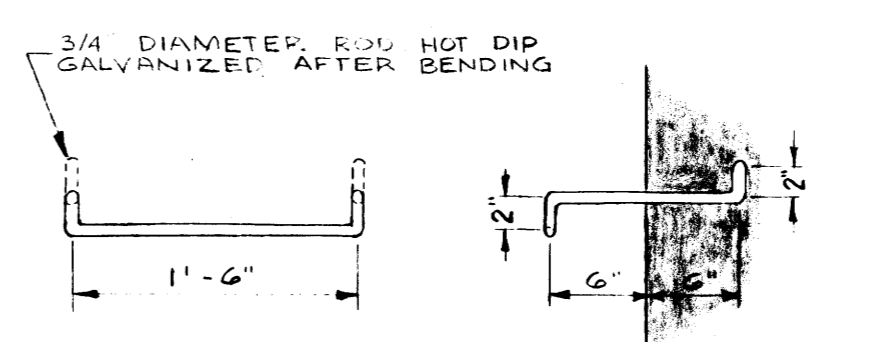


SECTION B-B

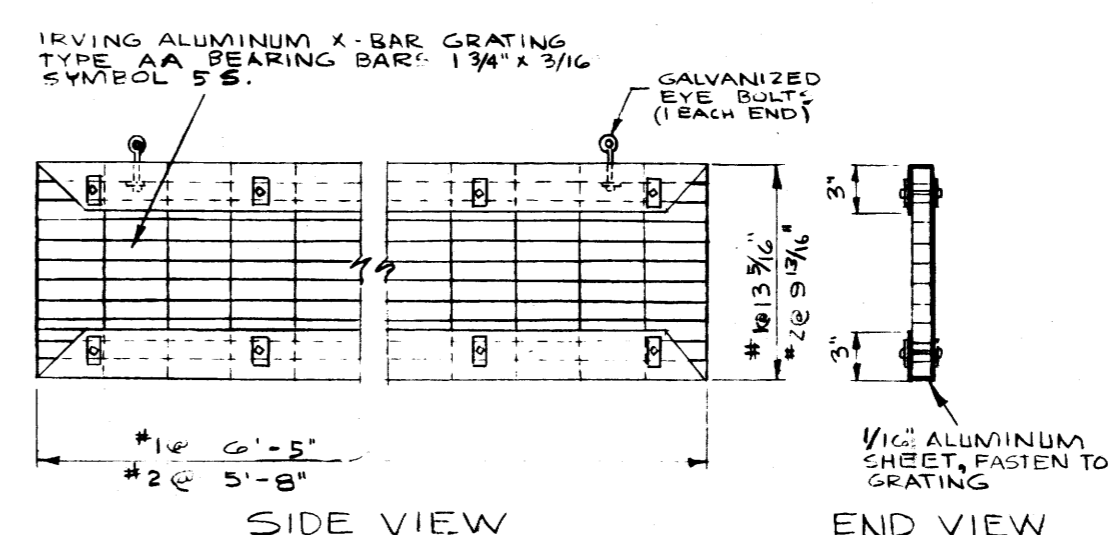


SECTION C-C

INLET STRUCTURE
SCALE: 1/2" = 1'-0"



DETAIL OF CAST IN PLACE STEPS
SCALE: 1" = 1'-0"



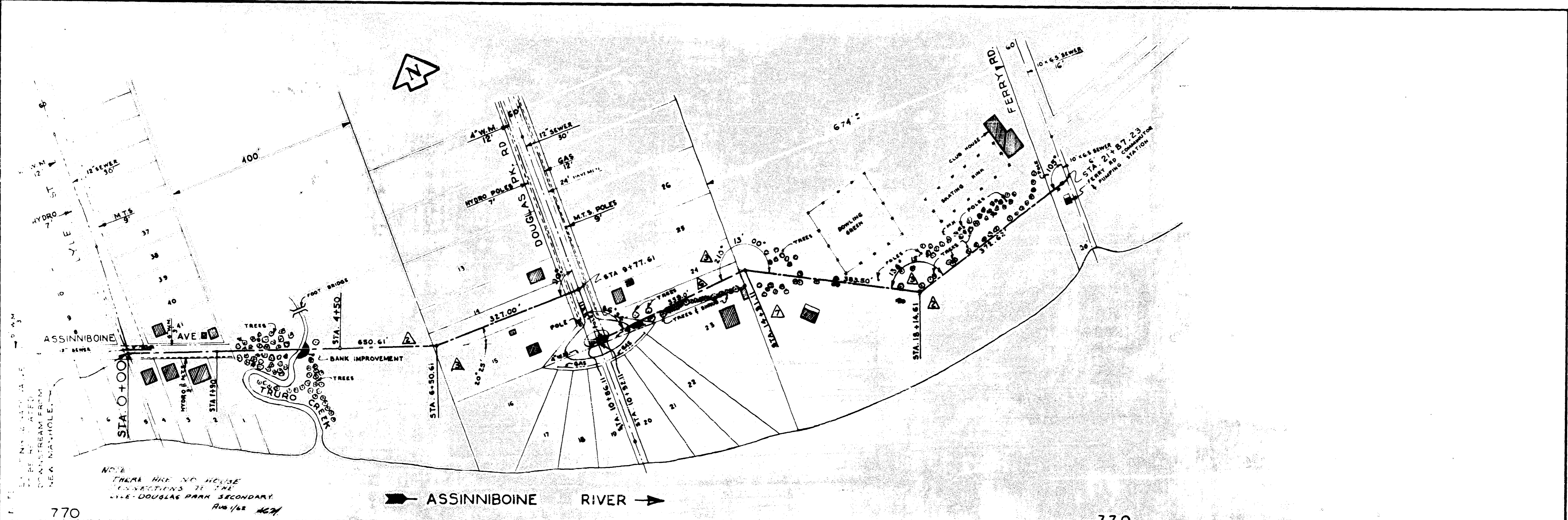
DETAIL OF REMOVABLE WEIRS (2 REQ'D)
SCALE: 1" = 1'-0"

- NOTES:
1. ALL CONCRETE 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS. KALIGRETE CEMENT SHALL BE USED FOR ALL CONCRETE.
 2. ALL REINFORCING STEEL INTERMEDIATE GRADE DEFORMED BARS F_s = 20000 P.S.I.
 3. CONCRETE COVER FOR REINFORCING STEEL 2"
 4. FRAME ALL PIPE AND MANHOLE OPENINGS IN WALL AND ROOF WITH #4 @ 5" BARS, 4 EACH FACE, SET DIAGONALLY TO THE MAIN STEEL.
 5. SECTIONS OF EXCAVATION FOR INLET AND OUTLET STRUCTURES THAT WILL BE UNDER PORTAGE AVENUE PAVEMENT TO BE BACKFILLED WITH UNSHRINKABLE FILL UP TO THE UNDERSIDE OF THE PAVEMENT FACE.
 6. PROVIDE 6" PVC WATERSTOP IN ALL CONSTRUCTION JOINTS

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS AND WASTE DISPOSAL DIVISION
APPROVED
[Signature]
DEC 14 1967 DIRECTOR

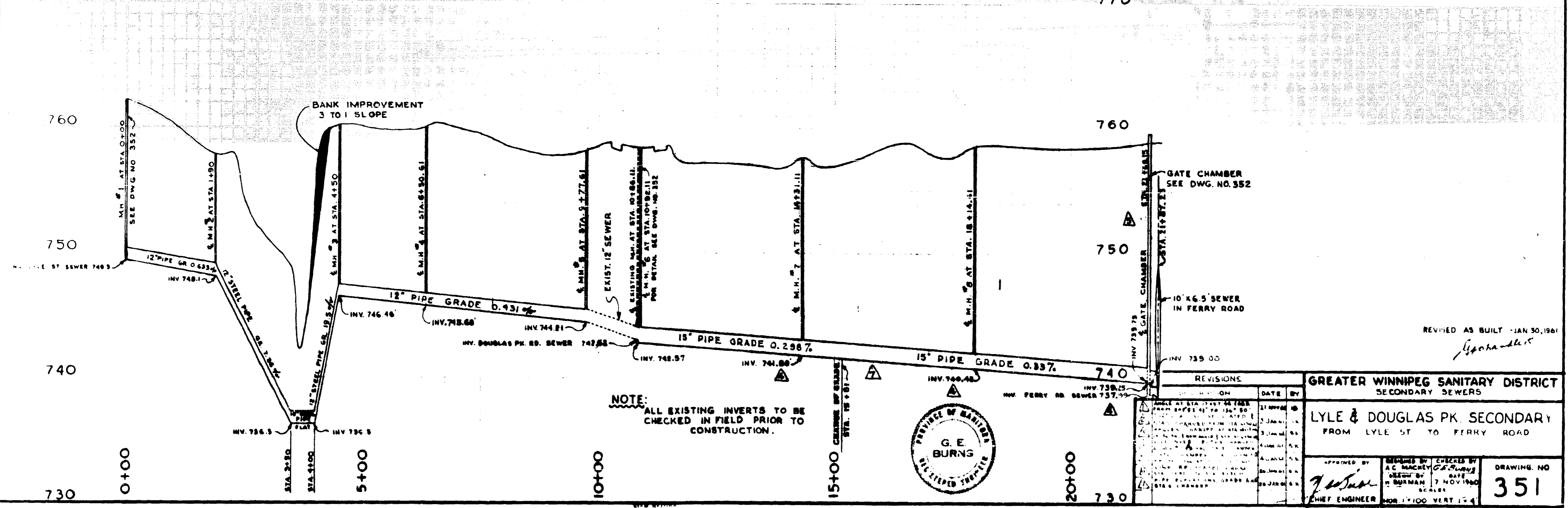
FEB. 12/63	2	FOR CONSTRUCTION	R.M.
JAN 15/63	1	FOR TENDER	A.M.
DATE	ISSUE No.	REV. No.	DESCRIPTION
ISSUE OR REVISION			

METROPOLITAN CORPORATION OF GREATER WINNIPEG STREETS AND TRANSIT DIVISION			
ST. JAMES BRIDGE AND INTERCHANGE			
INVERTED SIPHON INLET AND OUTLET STRUCTURES			
TEMPLETON ENGINEERING COMPANY PROFESSIONAL ENGINEERS WINNIPEG, MANITOBA	IN ASSOCIATION WITH	A. D. MARGISON AND ASSOCIATES LIMITED CONSULTING PROFESSIONAL ENGINEERS TORONTO	
APPROVED <i>[Signature]</i> DIRECTOR OF STREETS AND TRANSIT	DRAWN BY R.M.	DATE NOVEMBER, 1962	
	CHECKED A.M.	SCALE AS SHOWN	
	FILE No. B-5000-159	DWG. No.	296-C
	SHEET No.		



NOTE:
THERE ARE NO HOUSE
CONNECTIONS TO THE
LYLE-DOUGLAS PARK SECONDARY
R/S 1/62 AGM

ASSINIBOINE RIVER



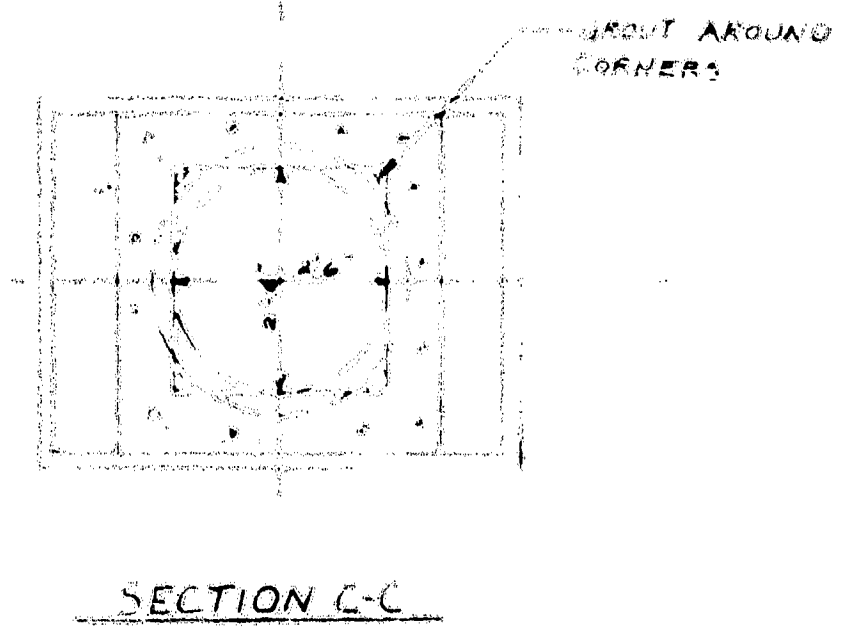
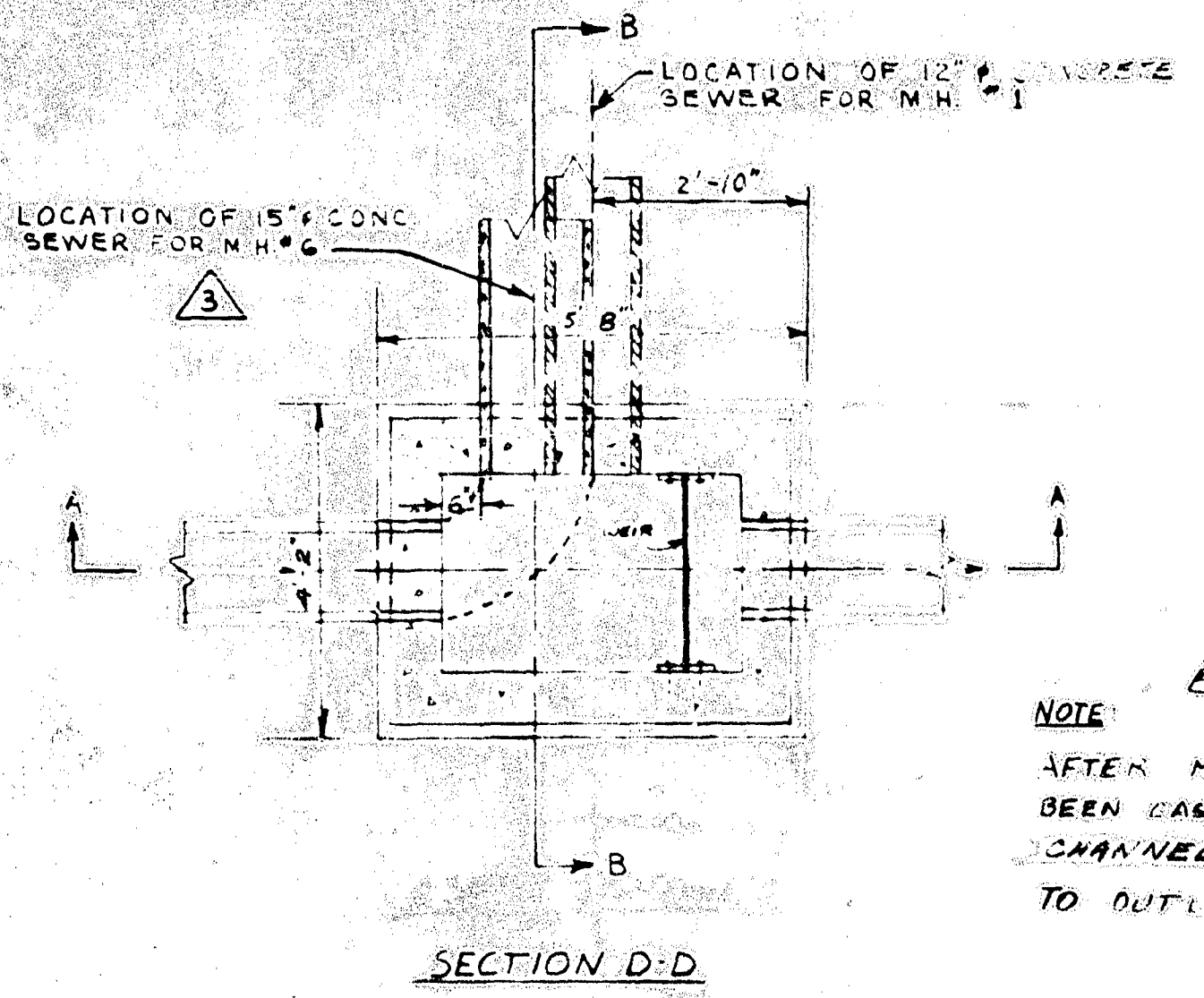
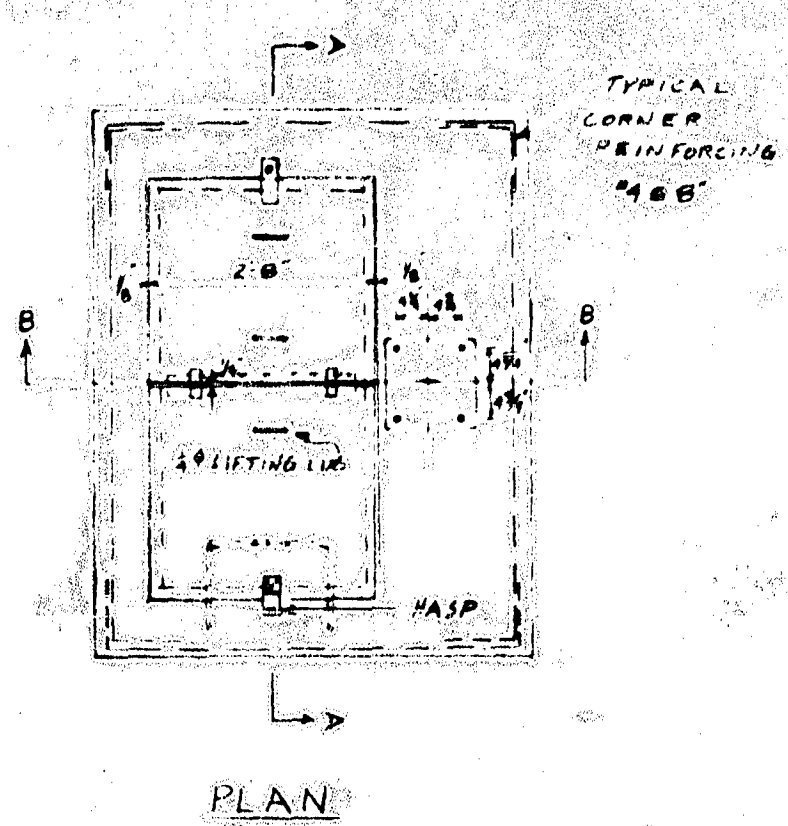
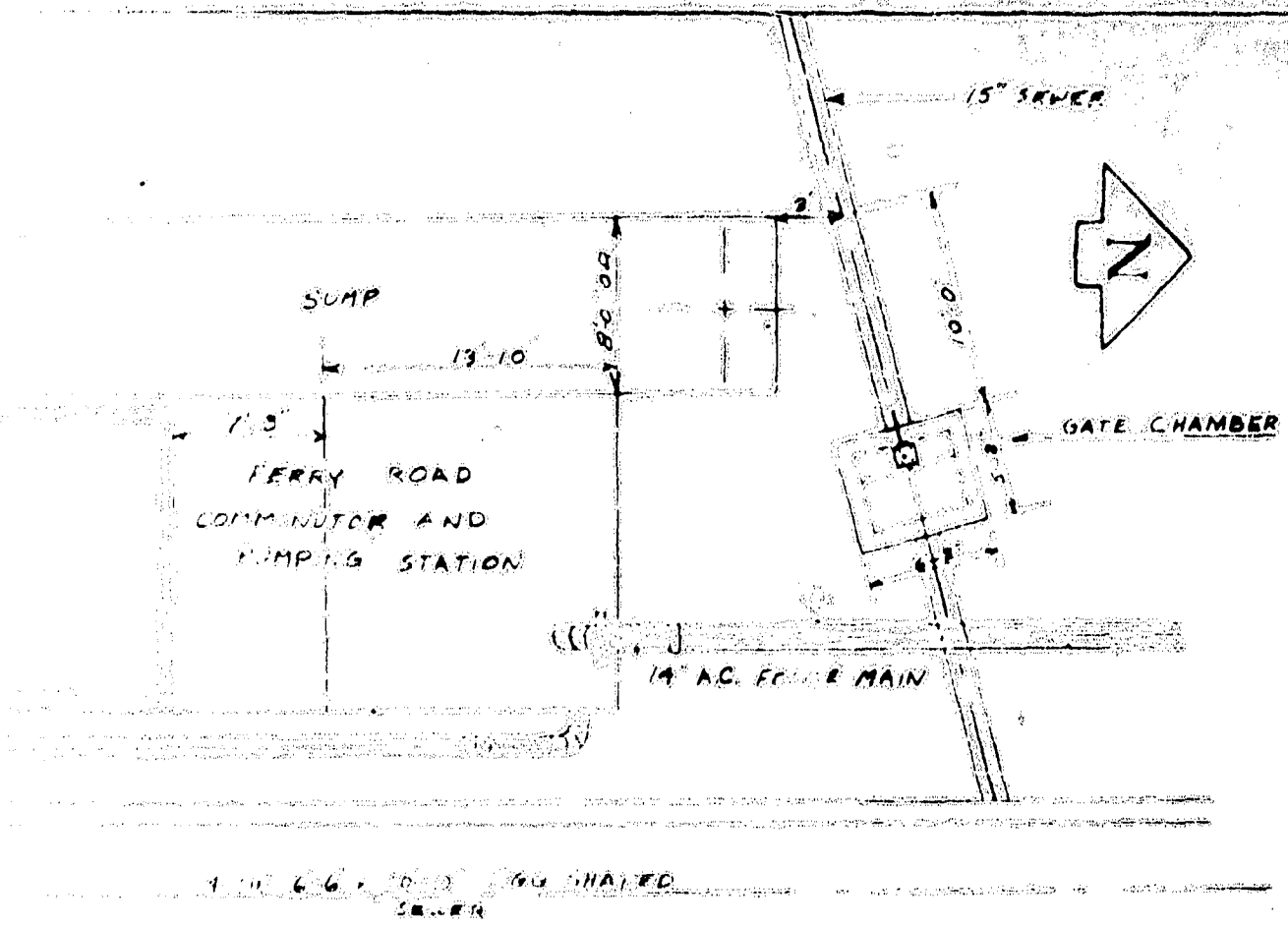
NOTE:
ALL EXISTING INVERTS TO BE
CHECKED IN FIELD PRIOR TO
CONSTRUCTION.



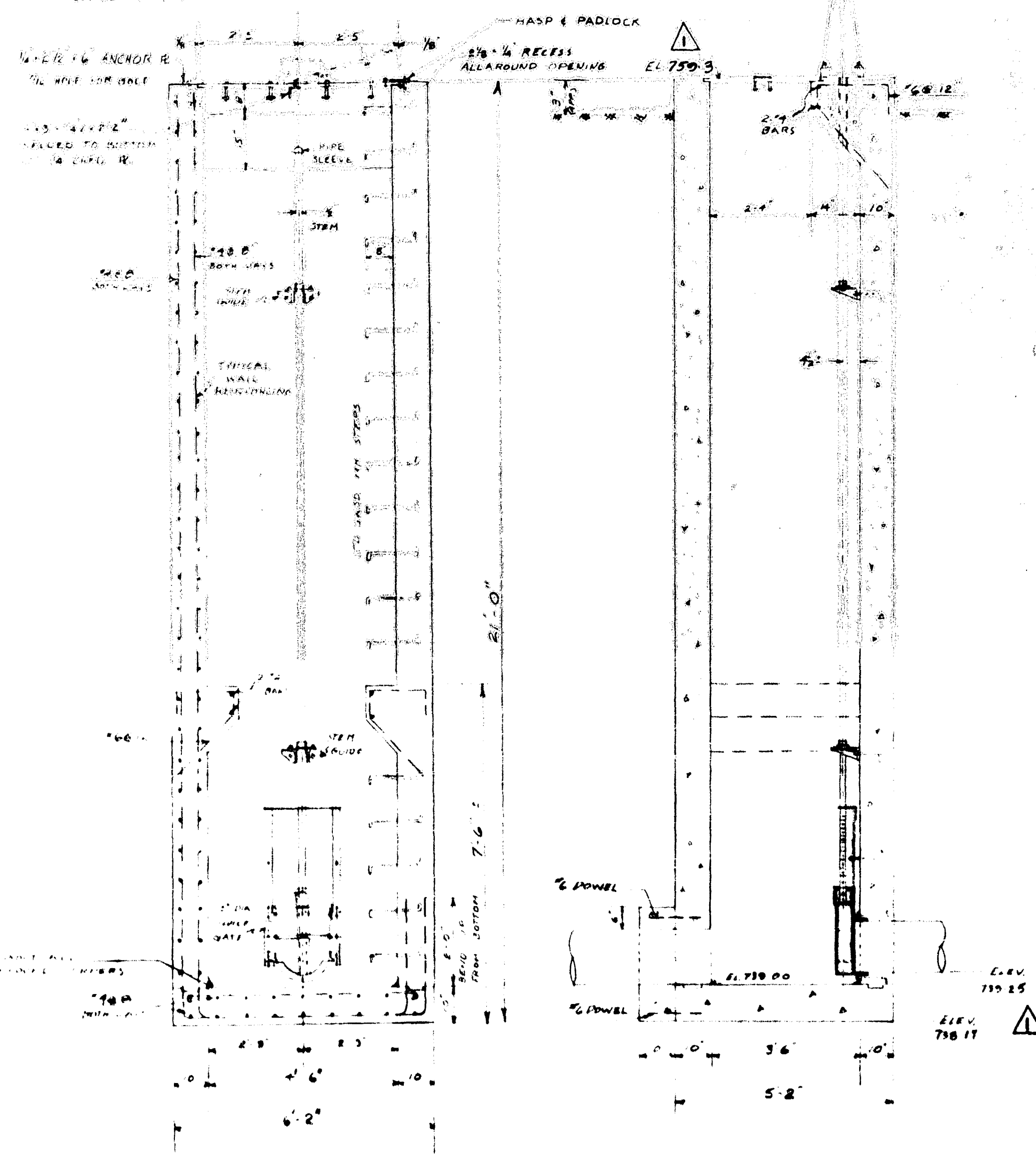
REVISIONS			GREATER WINNIPEG SANITARY DISTRICT SECONDARY SEWERS	
NO.	DESCRIPTION	DATE	BY	
1	ADDED AT STA. 18+14.61	21 NOV 60	AG	
2	ADDED AT STA. 18+14.61	21 NOV 60	AG	
3	ADDED AT STA. 18+14.61	21 NOV 60	AG	
4	ADDED AT STA. 18+14.61	21 NOV 60	AG	
5	ADDED AT STA. 18+14.61	21 NOV 60	AG	
6	ADDED AT STA. 18+14.61	21 NOV 60	AG	
7	ADDED AT STA. 18+14.61	21 NOV 60	AG	
8	ADDED AT STA. 18+14.61	21 NOV 60	AG	
9	ADDED AT STA. 18+14.61	21 NOV 60	AG	
10	ADDED AT STA. 18+14.61	21 NOV 60	AG	

APPROVED BY <i>[Signature]</i> CHIEF ENGINEER	DESIGNED BY A.C. BURNES	CHECKED BY G.E. BURNS	DATE 7 NOV 1960	DRAWING NO. 351
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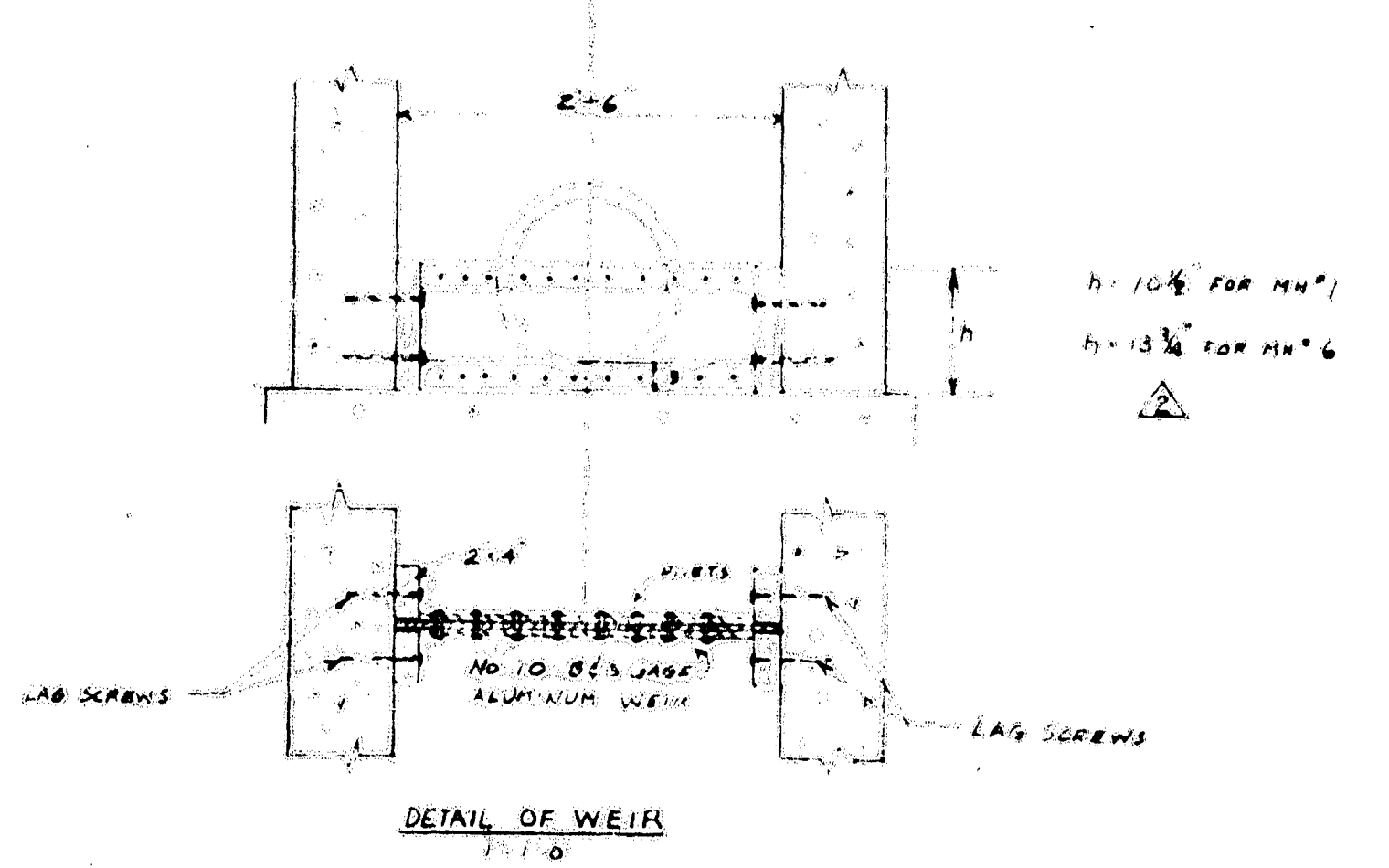
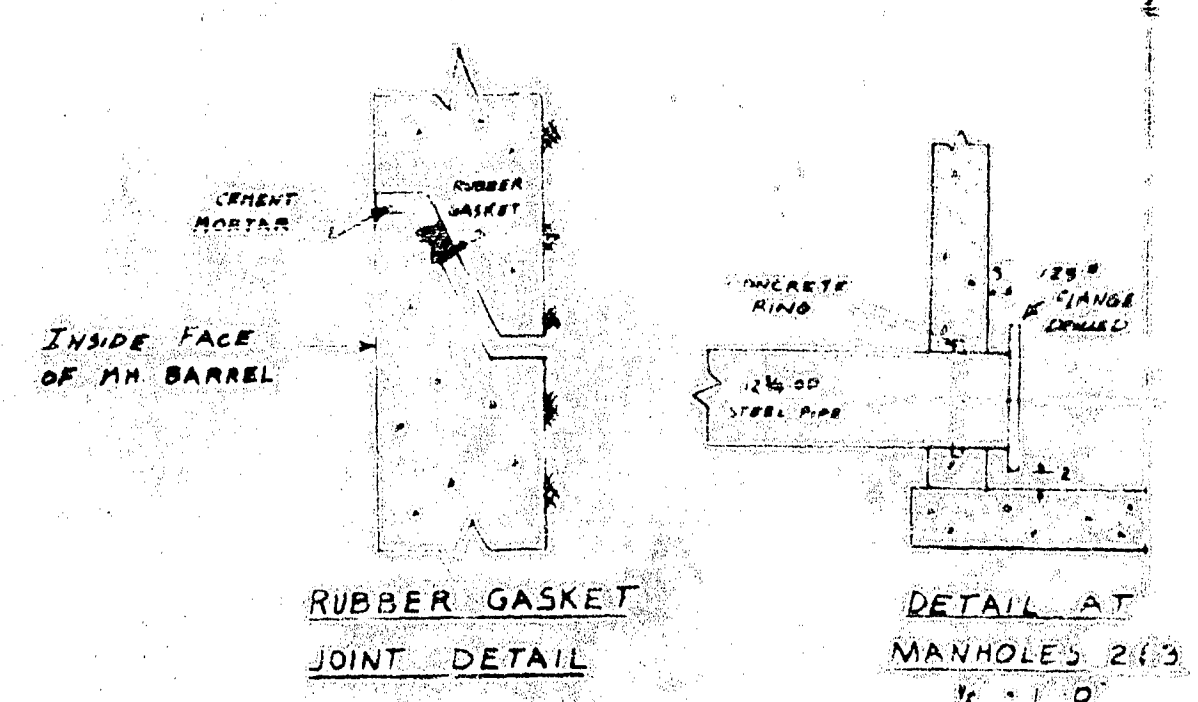
REVISED AS BUILT - JAN 30, 1961
[Signature]



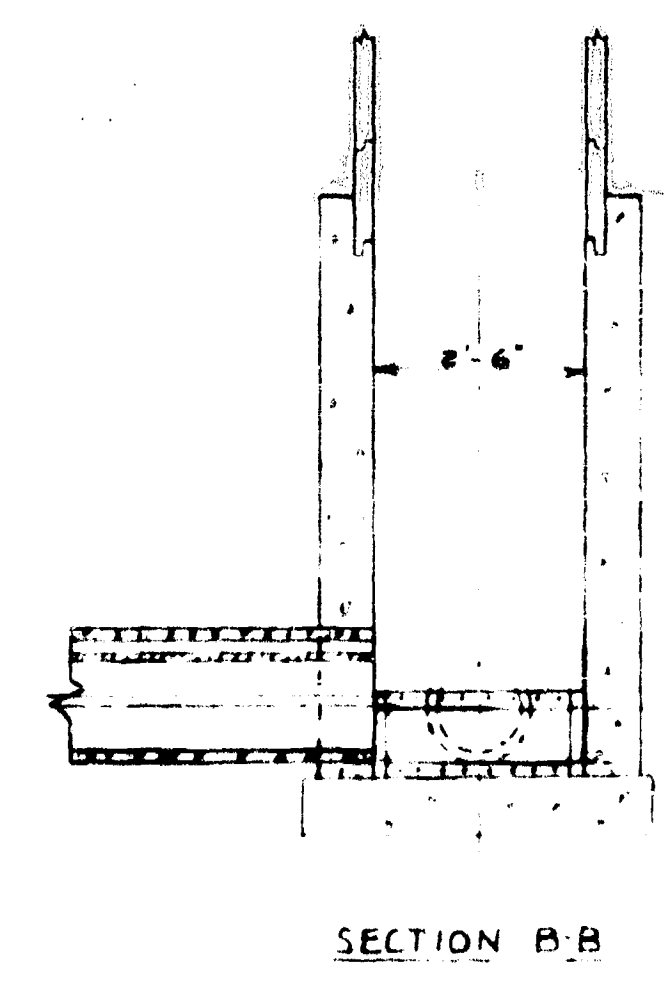
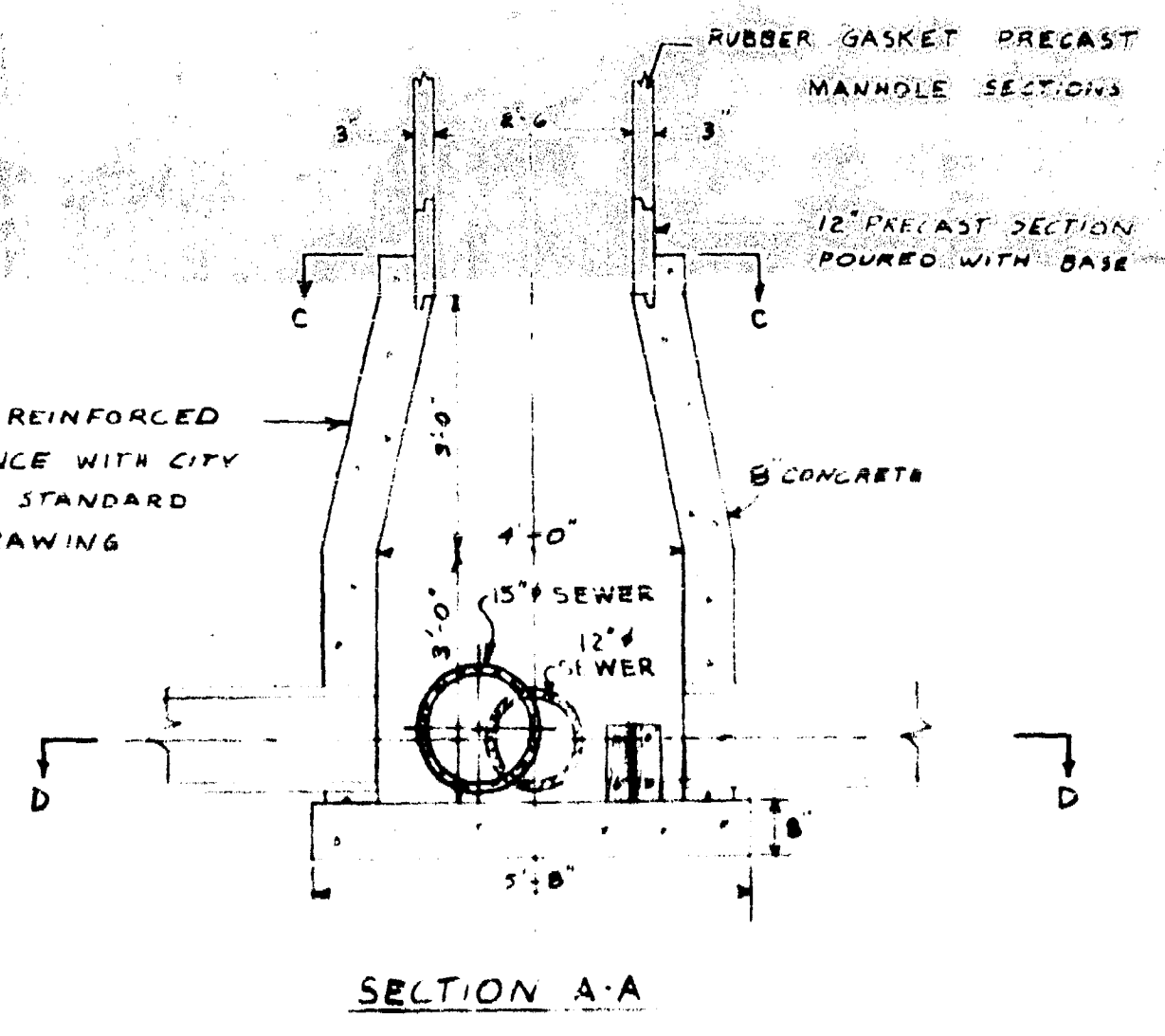
NOTE
AFTER MANHOLES HAVE BEEN CAST, GROUT A SMOOTH CHANNEL IN BASE FROM INLET TO OUTLET



GATE CHAMBER DETAILS
SCALE 1/2" = 1'-0"



BASE TO BE REINFORCED IN ACCORDANCE WITH CITY OF WINNIPEG STANDARD MANHOLE DRAWING NO 14602-E



NOTE
ALL MANHOLES TO HAVE POURED BASE AND PRECAST MANHOLE BARREL SECTIONS AS DETAILED ABOVE.

DETAILS OF MANHOLES

NO. 1 AND 6

SCALE 1/2" = 1'-0"

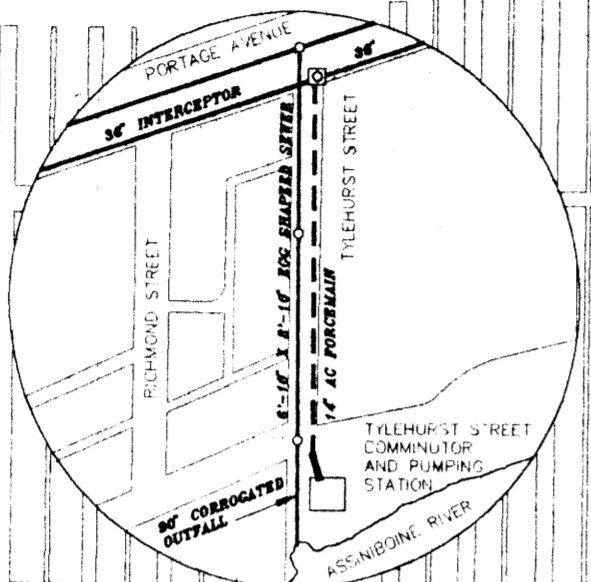
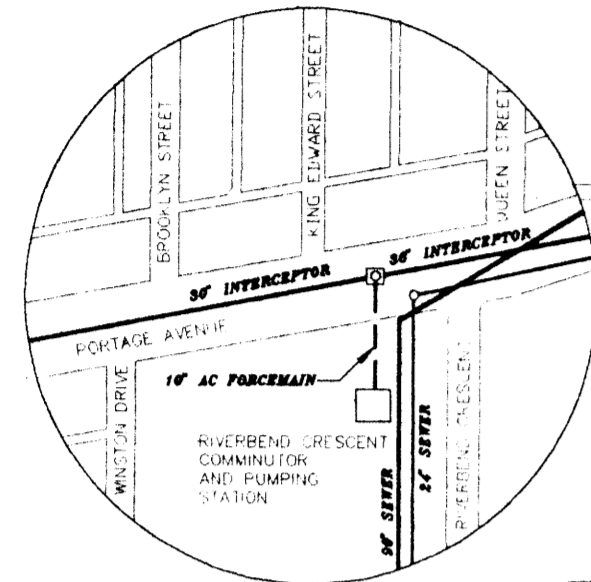


REVISIONS			GREATER WINNIPEG SANITARY DISTRICT SEWERS	
NO.	DESCRIPTION	DATE BY		
1	Gate chamber elevation changed from 759.80 to 759.85	1/20/54		
2	Location of 15" sewer for M.H. #6 changed to the position shown	1/20/54		
3	Location of 12" concrete sewer for M.H. #1	1/20/54		
4	NOTE ADDED	1/20/54		

APPROVED BY <i>[Signature]</i> CHIEF ENGINEER	DRAWN BY A.C. MACKEY	CHECKED BY A.C. MACKEY	DATE 1/20/54	SCALE AS SHOWN	DRAWING NO. 352
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DRAWING NO.'s TITLE AND TYPE

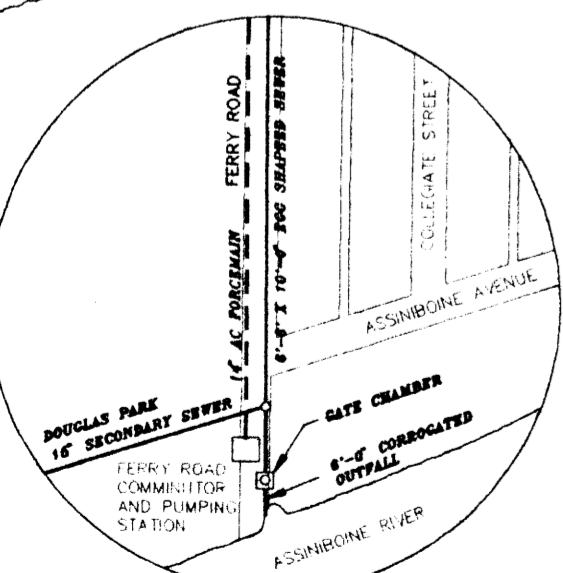
- 43, 198, 199, 294 - 297 MAIN INTERCEPTOR
- 118 ASH STREET SECONDARY AND RIVER CROSSING
- 259 CHATAWAY SECONDARY SEWER AND FORCEMAIN
- 293 FERRY ROAD FORCEMAIN
- 306 TYLEHURST STREET FORCEMAIN
- 351 LYLE / DOUGLAS PARK SECONDARY SEWER
- 1158 PARKSIDE DRIVE SECONDARY SEWER
- ZS-1 ASSINIBOINE PARK SEWER AND FORCEMAIN



RIVERBEND CRESCENT COMMUNITOR AND PUMPING STATION
DETAIL "B"

TYLEHURST STREET COMMUNITOR AND PUMPING STATION
DETAIL "C"

BRUCE AVENUE



FERRY ROAD COMMUNITOR AND PUMPING STATION
DETAIL "A"

FERRY ROAD COMMUNITOR AND PUMPING STATION
SEE DRAWING No. 298B, 299-300.
SEE DETAIL "A" THIS DRAWING

ASSINIBOINE PARK LIFT STATION
SEE DRAWING No. ZS-1

RIVERBEND CRESCENT PUMPING STATION
SEE DRAWING No. 312-316.
SEE DETAIL "B" THIS DRAWING

TYLEHURST STREET COMMUNITOR AND PUMPING STATION
SEE DRAWING No. 307-311.
SEE DETAIL "C" THIS DRAWING

PARKSIDE DRIVE JUNCTION CHAMBER
SEE DRAWING No. 1159

CHATAWAY BOULEVARD PUMPING STATION
SEE DRAWING No. S-162, 260, 528, 629 & 756

CLIFTON STREET COMMUNITOR AND PUMPING STATION
SEE DRAWING No. 202-203A, 416, 777

ASH STREET COMMUNITOR AND PUMPING STATION
SEE DRAWING No. 154-156

FOR CONTINUATION OF WOLSELEY AVENUE MAIN INTERCEPTOR SEE DWG.No. MS-2C

LEGEND
 INTERCEPTOR
 FORCEMAIN

		WATERWORKS, WASTE AND DISPOSAL DEPARTMENT			
MAIN INTERCEPTOR					
DRAWN BY	TM	DATE	1995 01 11	SCALE	NTS
REVISED		AUTOCAD12	PLOT DATE	1995 02 27	CITY DRAWING NO.
MS - 4C					

