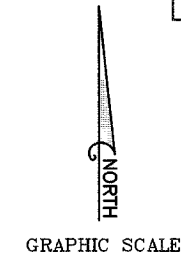


PAL. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#	06-00132-00-PK	WILL	15	7
STA.	..*	TO STA.	* .	
	ELAPSED			

CONTRACT NUMBER 83974



NORMANTOWN ROAD

91ST STREET

250TH AVENUE

PARK AND RIDE ACCESS ROAD

**SITE DATA**  
 TOTAL SITE AREA 179,932 SQ. FT. (4.13 ACRES)  
 TOTAL PERVIOUS AREA 79,204 SQ. FT. (1.82 ACRES) (44%)  
 TOTAL IMPERVIOUS AREA 100,728 SQ. FT. (2.31 ACRES) (56%)

**DRAINAGE DATA**  
 USING FIGURE 7 OF THE WILL COUNTY TECHNICAL GUIDANCE MANUAL

**2\_YR STORM WITH 56% IMPERVIOUS AREA**  
 DETENTION VOLUME = 0.11 AC-FT/AC  
 UNIT AREA DETENTION METHOD = 0.11 AC-FT/AC X 4.13 AC = 0.45 AC-FT  
 RELEASE RATE = 0.04 CFS/AC X 4.13 AC = 0.17 CFS

**100\_YR STORM WITH 56% IMPERVIOUS AREA**  
 DETENTION VOLUME = 0.33 AC-FT/AC  
 UNIT AREA DETENTION METHOD = 0.33 AC-FT/AC X 4.13 AC = 1.36  
 AC-FT RELEASE RATE = 0.15 CFS/AC X 4.13 AC = 0.62 CFS

ELEV.	HEIGHT	AREA (SQ)	AREA (ACRES)	AVERAGE AREA (ACRES)	INCREMENTAL VOLUME (AC-FT)	TOTAL VOLUME (AC-FT)	DESCRIPTION
688.2	0.00	0.00	0.00	0.00	0.00	0.00	Bottom Sedimentation Basin
688.46	0.26	1608	0.36	0.36	0.22	0.22	Top of Sedimentation Basin
688.45	0.25	1508	0.34	0.34	0.22	0.22	Bottom Detention Area
688	0.00	17894	0.41	0.41	0.27	0.48	2-Yr Detention Paved Area
688.93	0.93	15295	0.34	0.34	0.17	0.65	Top of 2-Year Detention Volume
688	0.00	22226	0.51	0.51	0.48	1.16	
688.00	0.00	22747	0.52	0.52	0.21	1.37	100-Yr Detention Paved Area
688.40	0.40	22753	0.52	0.52	0.21	1.58	Top of 100-Year Detention Volume

**STORM STRUCTURES**

- 1 CB TC T1F OL  
RIM=693.50  
INV.=689.90 (12" S)
- 2 CB TC T1F OL  
RIM=693.00  
INV.=690.00 (12" S)
- 3 RD CB 4 DIA T1F OL  
RIM=692.00  
INV.=689.27 (12" S & N)
- 4 RD CB 4 DIA T1F OL  
RIM=692.00  
INV.=689.38 (12" S & N)
- 5 RD CB 4 DIA T11F&G  
RIM=692.00  
INV.=688.68 (12" S & N)
- 6 RD CB 4 DIA T11F&G  
RIM=692.00  
INV.=688.79 (12" SW & N)
- 7 PRC FLAR END SEC 12 W/  
GRATING-C FL END S 12  
INV.=688.45 (12")
- 8 PRC FLAR END SEC 12 W/  
GRATING-C FL END S 12  
INV.=688.45 (12")
- 9 PRC FLAR END SEC 12 W/  
GRATING-C FL END S 12  
INV.=688.45 (12")
- 10 DR STR WITH RESTRICT  
RIM=692.25  
INV.=688.10  
INV.=688.45 (2-1/2")  
INV.=689.63 (3-1/8")  
INV.=691.40 (TOP OF BAFFLE)
- 11 RD CB 4 DIA T3F&G  
RIM=691.18  
INV.=687.52 (12" W)  
INV.=687.40 (12" SW & SE)
- 12 RD CB 4 DIA T11F&G  
RIM=690.75  
INV.=687.66 (12" S & NE)
- 13 CB TC T11F&G  
RIM=690.75  
INV.=688.00 (12" N)
- 14 INLET ADJ NEW T1F OL  
RIM=690.50
- 15 INLET TO BE ADJUSTED  
RIM=691.27
- 16 RELOCATE EXISTING LIGHTING UNIT  
(SEE LIGHTING PLAN FOR DETAILS)
- 17 CONTRACTOR TO VERIFY LOCATION &  
ELEVATION OF EXISTING FIELD TILES. FIELD  
TILES ARE TO BE EXTENDED AND CONNECTED  
TO DRAINAGE STRUCTURES.
- 18 EXIST 20" STEEL CASING PIPE  
T/PIPE (W)=685.25  
T/PIPE (E)=684.25
- 19 EXIST 20" STEEL CASING PIPE  
T/PIPE (W)=683.00  
T/PIPE (E)=682.50

**STORM SEWER PIPES**

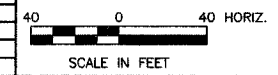
- A STORM SEW CL A 1 12"  
123 L.F. @ 0.50%
- B STORM SEW CL A 1 12"  
123 L.F. @ 0.50%
- C STORM SEW CL A 1 12"  
114 L.F. @ 0.50%
- D STORM SEW CL A 1 12"  
114 L.F. @ 0.50%
- E STORM SEW CL A 1 12"  
41 L.F. @ 0.50%
- F STORM SEW CL A 1 12"  
55 L.F. @ 0.50%
- G STORM SEW CL A 1 12"  
68 L.F. @ 0.50%
- H STORM SEW CL A 1 12"  
112 L.F. @ 0.50%
- I STORM SEW CL A 1 12"  
50 L.F. @ 0.50%
- J STORM SEW CL A 1 12"  
66 L.F. @ 0.50%
- K PROP. STEEL CASINGS 20"  
100 L.F. @ 0.00%  
T/PIPE (W)=685.25  
T/PIPE (E)=685.25

**LEGEND**

- (XX.XX) EXISTING SPOT ELEVATION
- LOT DIVIDES
- PR DRAINAGE DIVIDE
- XXX.XX NEW TOP OF CURB ELEVATION (+ 600)
- XXX.XX NEW EDGE OF PAVEMENT ELEVATION (+ 600)
- PR DETECTABLE WARNINGS
- PR LIGHTING BURIED
- PR LIGHTING UNIT

CITY OF NAPERVILLE  
**SITE GRADING AND UTILITY**  
**95TH STREET PARK AND RIDE**

REVISIONS	
NAME	DATE
PRE-FINAL SUBMITTAL	05.31.07
FINAL SUBMITTAL	08.31.07



DATE: 11/26/2007  
 DESIGNED BY: RTM  
 TECHNICIAN: JRR  
 CHECKED BY: JRV