

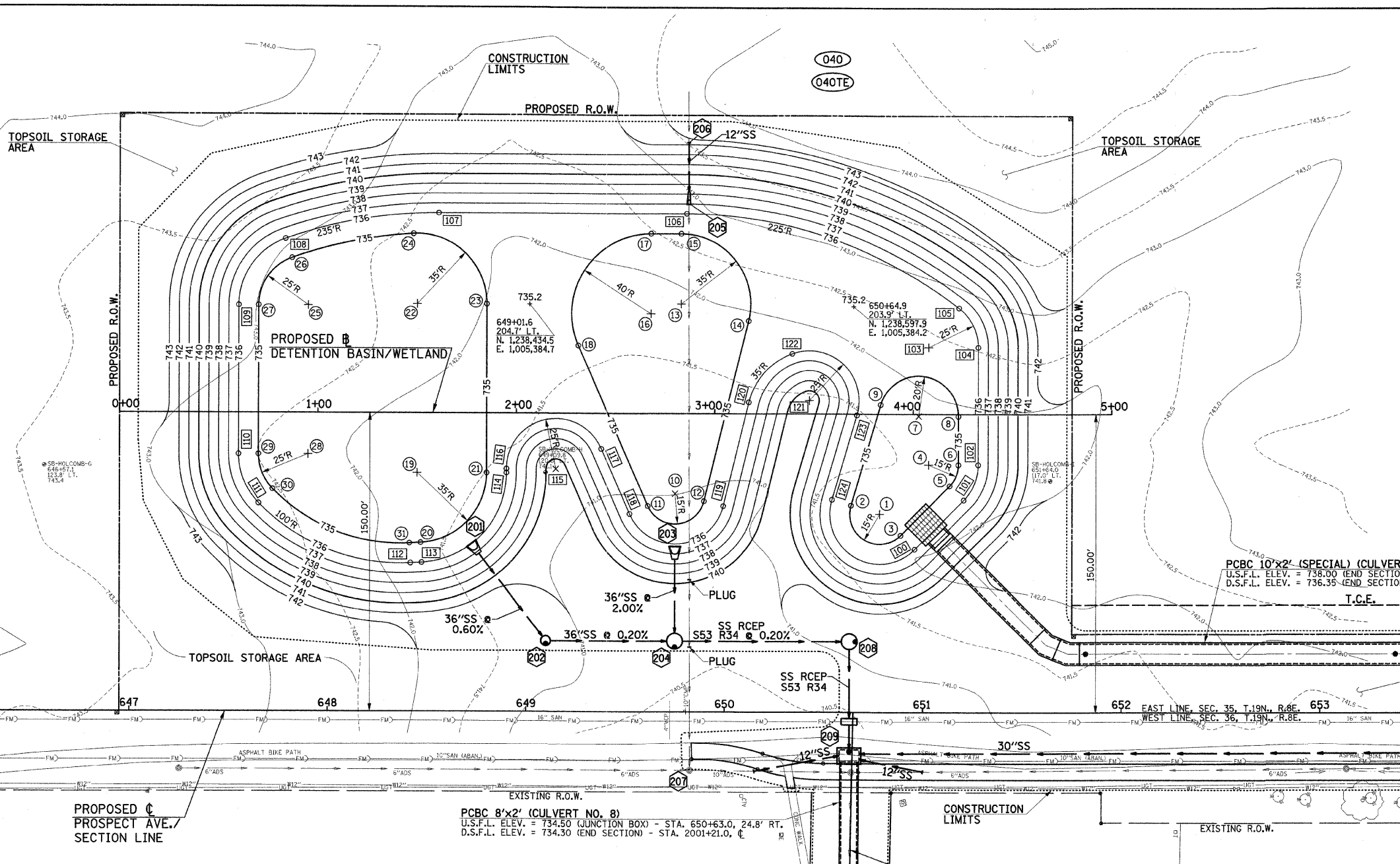
TYPICAL DETENTION BASIN/WETLAND SECTION

DETENTION BASIN/WETLAND CONTOUR 735 LAYOUT AND COORDINATE TABLE

POINT NO.	STATION	OFFSET	NORTHING	EASTING
1	650+78.1	100.3' LT.	1,238,611.9	1,005,487.7
2	650+63.7	104.5' LT.	1,238,597.4	1,005,483.5
3	650+88.7	89.7' LT.	1,238,622.6	1,005,498.2
4	651+02.8	124.9' LT.	1,238,636.4	1,005,462.8
5	651+13.4	114.3' LT.	1,238,647.0	1,005,473.3
6	651+17.8	124.9' LT.	1,238,651.4	1,005,462.7
7	650+97.8	149.0' LT.	1,238,631.2	1,005,438.8
8	651+17.8	149.0' LT.	1,238,651.2	1,005,438.7
9	650+78.6	154.7' LT.	1,238,611.9	1,005,433.3
10	649+75.0	110.1' LT.	1,238,508.8	1,005,478.7
11	649+61.3	104.0' LT.	1,238,495.1	1,005,484.9
12	649+89.6	106.4' LT.	1,238,523.3	1,005,482.2
13	649+78.0	205.0' LT.	1,238,511.0	1,005,383.8
14	650+12.0	196.6' LT.	1,238,545.0	1,005,391.9
15	649+78.0	240.0' LT.	1,238,510.7	1,005,348.8
16	649+62.8	200.0' LT.	1,238,495.8	1,005,388.9
17	649+62.8	240.0' LT.	1,238,495.5	1,005,348.9
18	649+26.2	183.9' LT.	1,238,459.3	1,005,405.3
19	648+45.0	120.4' LT.	1,238,378.6	1,005,469.4
20	648+46.8	85.4' LT.	1,238,380.8	1,005,504.4
21	648+80.0	120.4' LT.	1,238,413.6	1,005,469.1
22	648+45.0	204.7' LT.	1,238,378.0	1,005,385.1
23	648+80.0	204.7' LT.	1,238,413.0	1,005,384.8
24	648+43.0	239.6' LT.	1,238,375.7	1,005,350.2
25	647+90.0	203.9' LT.	1,238,323.0	1,005,386.4
26	647+81.8	227.5' LT.	1,238,314.6	1,005,362.8
27	647+65.0	203.9' LT.	1,238,298.0	1,005,386.6
28	647+90.0	129.5' LT.	1,238,323.6	1,005,460.8
29	647+65.0	129.5' LT.	1,238,298.6	1,005,461.0
30	647+72.2	112.0' LT.	1,238,305.9	1,005,478.4
31	648+41.2	85.1' LT.	1,238,375.1	1,005,504.7

DETENTION BASIN/WETLAND CONTOUR 736 LAYOUT AND COORDINATE TABLE

POINT NO.	STATION	OFFSET	NORTHING	EASTING
100	650+95.8	82.6' LT.	1,238,629.7	1,005,505.2
101	651+20.4	107.3' LT.	1,238,654.2	1,005,480.3
102	651+27.8	124.9' LT.	1,238,661.4	1,005,462.6
103	651+02.8	183.5' LT.	1,238,635.9	1,005,404.3
104	651+27.8	183.5' LT.	1,238,660.9	1,005,404.1
105	651+18.0	203.3' LT.	1,238,651.0	1,005,384.4
106	649+80.7	250.0' LT.	1,238,513.3	1,005,338.7
107	648+55.7	250.0' LT.	1,238,388.3	1,005,339.7
108	647+78.5	236.9' LT.	1,238,311.2	1,005,353.4
109	647+55.0	203.9' LT.	1,238,288.0	1,005,386.7
110	647+55.0	129.5' LT.	1,238,288.6	1,005,461.0
111	647+65.0	105.0' LT.	1,238,298.8	1,005,485.5
112	648+41.7	75.2' LT.	1,238,375.7	1,005,514.7
113	648+47.4	75.5' LT.	1,238,381.4	1,005,514.3
114	648+90.0	120.4' LT.	1,238,423.6	1,005,469.1
115	649+15.0	122.4' LT.	1,238,448.6	1,005,466.9
116	648+90.0	122.4' LT.	1,238,423.6	1,005,467.1
117	649+37.9	132.5' LT.	1,238,471.4	1,005,456.6
118	649+52.2	100.0' LT.	1,238,486.0	1,005,489.0
119	649+99.3	104.0' LT.	1,238,533.1	1,005,484.6
120	650+12.1	155.7' LT.	1,238,545.5	1,005,432.8
121	650+42.7	156.6' LT.	1,238,576.0	1,005,431.6
122	650+34.0	180.1' LT.	1,238,567.2	1,005,408.2
123	650+66.6	149.5' LT.	1,238,600.0	1,005,438.6
124	650+54.1	107.4' LT.	1,238,587.8	1,005,480.8



STR. NO.	STRUCTURE TYPE	OFF-SET SIDE	STA. OF C/L 2 FT. OPENING	OFFSET OF C/L 2 FT. OPENING	STA. OF C/L STR.	OFFSET OF C/L STR.	EX. T/O FRAME/GRATE ELEV.	PR. T/O FRAME/GRATE ELEV.	PR. T/O FLAT SLAB TOP ELEV.	INVERT IN ELEV.	U.S. STR. NO.	INVERT OUT ELEV.	D.S. STR. NO.
201	PRC FLAR END SEC 36" GRATING - C FL END S 36"	LT	---	---	*648+76.20	*79.90	---	---	---	736.00	BASIN	735.96	202
202	RD MAN TA 5 DIA T1 CLOSED	LT	649+10.00	34.50	649+10.00	36.00	741.30	740.30	735.63	201	735.55	204	
203	PRC FLAR END SEC 36" GRATING - C FL END S 36"	LT	---	---	*649+75.00	*77.45	---	---	---	736.30	BASIN	736.18	204
204	RD MAN TA 8 DIA T1 CLOSED	LT	649+75.00	33.00	649+75.00	36.00	740.80	739.80	735.43	202	735.35	208	
205	PRC FLAR END SEC 12" GRATING - C FL END S 12"	LT	---	---	**649+82.00	**261.10	---	---	---	735.42	203	737.00	206
206	CONNECT TO EXISTING FIELD TILE	LT	---	---	**649+82.00	**286.10	---	---	---	**737.00	WEST	**737.00	205

\*STATION AND OFFSET TO DOWNSTREAM END OF END SECTION  
\*\*SEE NOTE 1

LOCATION STR. - STR. OR STA., O.S.	CONCRETE COLLAR (EACH)	STORM SEWER CL A 1 12" (FOOT)	STORM SEWER CL A 1 36" (FOOT)	STORM SEW 1 RCEP S53 R34 (FOOT)	GRADE %	CONTR LOW-STRENG MATL (CU YD)
201 - 202			56		0.60	
202 - 204			59		0.20	
203 - 204			38		2.00	
204 - 208				80	0.20	
205 - 206	1	25				

CONCRETE COLLARS SHALL BE USED TO CONNECT STORM SEWERS

NOTE 1  
THE EXACT LOCATION AND ELEVATION OF THE FIELD TILE IS UNKNOWN AND SHALL BE DETERMINED BY THE CONTRACTOR DURING EXCAVATION OF THE DETENTION BASIN. THE FIELD TILE CONNECTION AND OUTLET SHALL BE AS DIRECTED BY THE ENGINEER. THE FIELD TILE SHALL BE REMOVED WITHIN THE LIMITS OF THE BASIN AND THE DOWNSTREAM END OF THE FIELD TILE SHALL BE PLUGGED.

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS = 3 EACH  
STA. 646+95.00, @  
STA. 646+95.00, 300.00' LT.  
STA. 651+75.00, 300.00' LT.

FLOOD YEAR	BASIN INFLOW	BASIN OUTFLOW	STORAGE VOLUME	HIGH WATER ELEVATION
50 YEAR	140.6 CFS	92.3 CFS	7.83 AC/FT	739.25
100 YEAR	173.6 CFS	106.7 CFS	10.50 AC/FT	739.77

SEE THE DETENTION BASIN/WETLAND PLANTING PLAN SHEET FOR SEEDING AND PLANTING AND DETAILS FOR THE DETENTION BASIN/WETLAND SITE.

SEE THE STORM SEWER OUTFALL PLAN AND PROFILE SHEETS AND THE DETENTION BASIN/WETLAND CROSS SECTIONS FOR ADDITIONAL INFORMATION.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETENTION BASIN/WETLAND GRADING AND DRAINAGE PLAN

DATE: 10-08  
DRAWN BY: J.L.B.  
CHECKED BY: R.L.H.

SCALE: 1"=30'