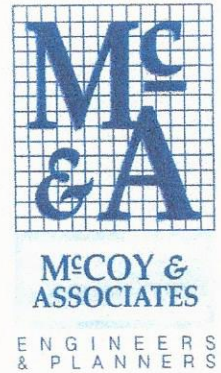


May 2, 2016

ATTN: Ms. Marjorie Cook, P.E.  
**St. John's River Water Management District**  
Department of Water Resources  
601 South Lake Destiny Road, Suite 200  
Maitland, FL 32751



Project: **HANCOCK SQUARE COMMERCIAL SITE PLAN**  
*Sec. 27, Twp. 22 S., Rng. 26 E.; City of Clermont, Lake County, FL.*  
(McA Project #15-039)

Re: **Environmental Resource Permit Letter Modification Request**  
**SJRWMD ERP Permit No. 42-069-67971-1, March 20, 2001**

Dear Ms. Cook,

The purpose of this letter is to request a Letter Modification for the 15,996 sf Hancock Square commercial project in Clermont, Florida. Hancock Square is the 2.21 acre southern half of the 4.07 acre parcel originally permitted as the "7-Eleven SR 50 & Hancock Road" in 2001. In accordance with Condition #25 of the original permit (#42-069-67971-1) which states, "*Prior to any construction within the future development area, the appropriate modification to original permit must be obtained from the District*", we respectfully request consideration for a permit modification for the Hancock Square commercial project.

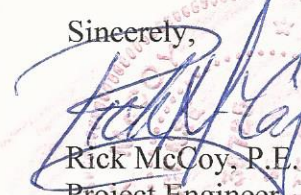
Historically, the dry water retention area (WRA) for the entire 4.07 acre 7-Eleven property was constructed with the original 7-Eleven construction in 2001. The existing frontage road parallel to Hancock Road was also constructed on the Hancock Square parcel to provide access to the full median opening on Hancock Road. In 2004, the property east of the 7-Eleven property was permitted as Hancock Commons, ERP 42-069-93366-1, issued 5/14/2004. In 2007, the 7-Eleven ERP permit was modified to allow two (2) retaining walls, (3) 60" RCP cross-culverts and a paved roadway to bisect the existing WRA on the northern side of the Hancock Square parcel. The existing roadways were constructed on the northern, eastern and southern sides of the Hancock Square project site to serve the Hancock Commons development.

The Hancock Square project will complete the original 7-Eleven ERP Permit. The original permit allowed for 1.77 acres of impervious surface area for the future development parcel that is now Hancock Square. The actual Hancock Square impervious surface area is 1.73 acre and includes all of the existing pavement within the Hancock Square property boundaries.

Some minor reshaping of the existing WRA on the Hancock Square property is necessary to accommodate the project grading. The proposed WRA regrading is represented on the cross-sections, Sheet 8 of 17. Stage-Storage calculations on the following pages demonstrate that the storage volume of the regraded WRA will exceed the existing WRA storage volume.

Please contact us if any additional information is required.

Sincerely,



Rick McCoy, P.E.  
Project Engineer

5/2/2016



**STORMWATER RETENTION AREA**  
**STAGE-STORAGE-DISCHARGE CALCULATIONS**

**PROJECT:** HANCOCK SQUARE - [aka: 7-ELEVEN at SR 50 & HANCOCK RD]  
 Sec. 27; Twp. 22S; Rng. 26E, City of Clermont, Lake County, Florida  
 McA Project #15-039

**DATE:**

**LOCATION:** EXISTING ON-SITE RETENTION AREA

**INPUT REQUIRED:**

- |                                |                   |        |      |
|--------------------------------|-------------------|--------|------|
| 1. Top Elevation of WRA,       | El <sub>T</sub> = | 210.00 | MSL  |
| 2. Top Surface Area of WRA,    | A <sub>T</sub> =  | 7,688  | sf   |
| 3. Bottom Surface Area of WRA, | A <sub>B</sub> =  | 1,131  | sf   |
| 4. Ave. Width at Top,          | W <sub>T</sub> =  | 80     | feet |
| 5. Ave. Width at Bottom,       | W <sub>B</sub> =  | 42     | feet |
| 6. Total Depth of WRA,         | D =               | 8.00   | feet |
| 7. Stage Increments,           | d =               | 1.00   | feet |

**METHODOLOGY:**

AVERAGE END AREA EQUATION:

$$[ V = d/3(A_t + A_b + \text{SQRT}(A_t \cdot A_b)) ]$$

- Where:
- V = VOLUME, (cf)
  - d = DEPTH INCREMENT, (feet)
  - A<sub>t</sub> = TOP SURFACE AREA, (sf)
  - A<sub>b</sub> = BOTTOM SURFACE AREA, (sf)

ELEV. (MSL)	EQUIV. WIDTH (ft)	EQUIV. LENGTH (ft)	AREA		VOLUME (cf)	CUM. VOLUME	
			(sf)	(ac)		(cf)	(ac-ft)
202.00	42.0	26.9	1,131	0.026	-	-	0.000
203.00	46.8	41.7	1,951	0.045	1,522	1,522	0.035
204.00	51.5	53.8	2,770	0.064	2,348	3,871	0.089
205.00	56.3	63.8	3,590	0.082	3,171	7,042	0.162
206.00	61.0	72.3	4,410	0.101	3,993	11,035	0.253
207.00	65.8	79.5	5,229	0.120	4,813	15,848	0.364
208.00	70.5	85.8	6,049	0.139	5,634	21,482	0.493
209.00	75.3	91.3	6,868	0.158	6,454	27,936	0.641
210.00	80.0	96.1	7,688	0.176	7,274	35,211	0.808

**STORMWATER RETENTION AREA**  
**STAGE-STORAGE-DISCHARGE CALCULATIONS**

**PROJECT:** HANCOCK SQUARE - [aka: 7-ELEVEN at SR 50 & HANCOCK RD]  
 Sec. 27; Twp. 22S; Rng. 26E, City of Clermont, Lake County, Florida  
 McA Project #15-039

**DATE:**

**LOCATION:** RE-GRADED ON-SITE RETENTION AREA

**INPUT REQUIRED:**

- |                                |                              |
|--------------------------------|------------------------------|
| 1. Top Elevation of WRA,       | El <sub>T</sub> = 210.00 MSL |
| 2. Top Surface Area of WRA,    | A <sub>T</sub> = 7,298 sf    |
| 3. Bottom Surface Area of WRA, | A <sub>B</sub> = 1,890 sf    |
| 4. Ave. Width at Top,          | W <sub>T</sub> = 84 feet     |
| 5. Ave. Width at Bottom,       | W <sub>B</sub> = 50 feet     |
| 6. Total Depth of WRA,         | D = 8.00 feet                |
| 7. Stage Increments,           | d = 1.00 feet                |

**METHODOLOGY:**

AVERAGE END AREA EQUATION:

$$[ V = d/3(At + Ab + \text{SQRT}(At*Ab)) ]$$

Where: V = VOLUME, (cf)

d = DEPTH INCREMENT, (feet)

At = TOP SURFACE AREA, (sf)

Ab = BOTTOM SURFACE AREA, (sf)

ELEV. (MSL)	EQUIV. WIDTH (ft)	EQUIV. LENGTH (ft)	AREA		VOLUME (cf)	CUM. VOLUME	
			(sf)	(ac)		(cf)	(ac-ft)
202.00	50.0	37.8	1,890	0.043	-	-	0.000
203.00	54.3	47.3	2,566	0.059	2,219	2,219	0.051
204.00	58.5	55.4	3,242	0.074	2,897	5,117	0.117
205.00	62.8	62.4	3,918	0.090	3,575	8,691	0.200
206.00	67.0	68.6	4,594	0.105	4,252	12,943	0.297
207.00	71.3	74.0	5,270	0.121	4,928	17,871	0.410
208.00	75.5	78.8	5,946	0.137	5,605	23,476	0.539
209.00	79.8	83.0	6,622	0.152	6,281	29,757	0.683
210.00	84.0	86.9	7,298	0.168	6,957	36,714	0.843