

- LEGEND:**
- PROP. STORM DRAIN
  - PROP. STORM DRAIN INLET
  - PROP. DRAINAGE AREA BOUNDARY
  - DRAINAGE AREA LABEL
  - NAME
  - AREA (ACRES)
  - Q<sub>100</sub> (CFS)
  - INLET DESIGNATION
  - FLOW ARROW
  - BERM SWALE
  - EXISTING CONTOUR
  - PROPOSED CONTOUR

**RESPONSIBILITY NOTE:**

"ALL RESPONSIBILITY FOR ADEQUACY DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN."

**GENERAL UTILITY NOTES:**

ALL EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE OWNER AND THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY AFFECTED AND VERIFY THESE LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.

CALL 1-800-344-8377 (DIG-TESS) OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. MYCOSKIE MCINNIS ASSOCIATES, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

- NOTES:**
- AREAS A1-A9 AND P1 DRAIN TO PROPOSED DETENTION POND.
  - ON-SITE AREAS C1, C2, AND C3 DISCHARGE OFFSITE AND BYPASS PROPOSED POND.
  - DETENTION IS PROVIDED SO THE TOTAL ONSITE POST-DEVELOPMENT RUNOFF DOES NOT EXCEED ON-SITE PREDEVELOPMENT CONDITIONS.
  - DESIGN CRITERIA BASED ON CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION DATED AUGUST 2003 AND UPDATES DATED OCTOBER 2007.

**INLET CALCULATIONS**

INLET NO.	Drainage Area	DESIGN STORM FREQUEN	Area Runoff: Q=CIA			CARRY OVER (CFS)	TOTAL FLOW (CFS)	LENGTH L <sub>i</sub> (FT)	SELECTED INLET TYPE	INLET CAPACITY (CFS)	CARRY OVER TO (CFS)		
			T <sub>c</sub> (MIN)	I (IN/HR)	C								
A-1	A1	100	10	9.8	0.90	0.35	3.09	0.00	3.09	5	CURB - SUMP	10.60	0
A-2	A2	100	10	9.8	0.90	0.24	2.12	0.00	2.12	18" DIA	DOME GRATE - SUMP	2.70	0
A-3	A3	100	10	9.8	0.90	0.17	1.50	0.00	1.50	15" DIA	DOME GRATE - SUMP	2.00	0
A-4	A4	100	10	9.8	0.90	0.46	4.06	0.00	4.06	5	CURB - SUMP	10.60	0
A-5	A5	100	10	9.8	0.90	0.16	1.41	0.00	1.41	15"X15"	GRATE - SUMP	2.10	0
A-6	A6	100	10	9.8	0.90	0.16	1.41	0.00	1.41	15"X15"	GRATE - SUMP	2.10	0
A-7	A7	100	10	9.8	0.90	0.17	1.50	0.00	1.50	5	CURB - SUMP	10.60	0
A-8	A8	100	10	9.8	0.90	0.17	1.50	0.00	1.50	5	CURB - SUMP	10.60	0
A-9	A9	100	10	9.8	0.90	0.46	4.06	0.00	4.06	10	CURB - ON GRADE	6.00	0
B-1	B1	100	10	9.8	0.90	0.28	2.47	0.00	2.47	5	CURB - SUMP	10.60	0
B-2	B2	100	10	9.8	0.90	0.16	1.41	0.00	1.41	15" DIA	DOME GRATE - SUMP	2.00	0
B-3	B3	100	10	9.8	0.90	0.13	1.15	0.00	1.15	12"X12"	GRATE - SUMP	1.55	0
B-4	B4	100	10	9.8	0.90	0.65	5.73	0.00	5.73	5	CURB - SUMP	10.60	0
B-5	B5	100	10	9.8	0.90	0.22	1.94	0.00	1.94	5	CURB - SUMP	10.60	0
B-6	B6	100	10	9.8	0.90	0.28	2.47	0.00	2.47	18" DIA	DOME GRATE - SUMP	2.70	0
B-7	B7	100	10	9.8	0.90	0.11	0.97	0.00	0.97	5	CURB - SUMP	10.60	0
B-9	B9	100	10	9.8	0.90	0.17	1.50	0.00	1.50	15"X15"	PED GRATE - SUMP	1.80	0

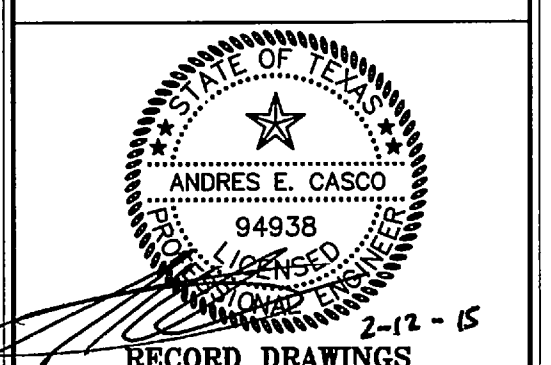
- Notes:**
- The capacity of grate inlets A-2, A-3, A-5, A-6, B-2, B-3, B-6, and B-9 is based on Nyloplast Storm Structures Technical Data for a ponding depth of 0.50 ft.
  - The capacity of Curb inlets A-1, A-4, A-7, A-8, B-1, B-4, B-5, and B-7 is based on Figure 3.7 City of Rockwall Standards of Design and Construction
  - The capacity of Curb inlet A-9 is based on Figure 3.5a City of Rockwall Standards of Design and Construction

DRAINAGE AREA	TOTAL AREA (AC)	LAND USE	C VALUE	C*A	T <sub>c</sub> (MIN)	INTENSITY		DISCHARGE		INTENSITY		DISCHARGE		NOTES
						5 YR (IN/HR)	10 YR (IN/HR)	5 YR (CFS)	10 YR (CFS)	25 YR (CFS)	100 YR (CFS)	5 YR (CFS)	10 YR (CFS)	
A-1	0.35	Senior Facility	0.90	0.32	10	6.10	1.92	7.10	2.24	8.30	2.61	9.80	3.09	To Inlet A-1
A-2	0.24	Senior Facility	0.90	0.22	10	6.10	1.32	7.10	1.53	8.30	1.79	9.80	2.12	To Inlet A-2 & Bldg Downspouts tie into Pipe
A-3	0.17	Senior Facility	0.90	0.15	10	6.10	0.93	7.10	1.09	8.30	1.27	9.80	1.50	To Inlet A-3 & Bldg Downspouts tie into Pipe
A-4	0.46	Senior Facility	0.90	0.41	10	6.10	2.53	7.10	2.94	8.30	3.44	9.80	4.06	To Inlet A-4
A-5	0.16	Senior Facility	0.90	0.14	10	6.10	0.88	7.10	1.02	8.30	1.20	9.80	1.41	To Inlet A-5 & Bldg Downspouts tie into Pipe
A-6	0.16	Senior Facility	0.90	0.14	10	6.10	0.88	7.10	1.02	8.30	1.20	9.80	1.41	To Inlet A-6 & Bldg Downspouts tie into Pipe
A-7	0.17	Senior Facility	0.90	0.15	10	6.10	0.93	7.10	1.09	8.30	1.27	9.80	1.50	To Inlet A-7
A-8	0.17	Senior Facility	0.90	0.15	10	6.10	0.93	7.10	1.09	8.30	1.27	9.80	1.50	To Inlet A-8 & Bldg Downspouts tie into Pipe
A-9	0.46	Senior Facility	0.90	0.41	10	6.10	2.53	7.10	2.94	8.30	3.44	9.80	4.06	To Inlet A-9
B-1	0.28	Senior Facility	0.90	0.25	10	6.10	1.54	7.10	1.79	8.30	2.09	9.80	2.47	To Inlet B-1
B-2	0.16	Senior Facility	0.90	0.14	10	6.10	0.88	7.10	1.02	8.30	1.20	9.80	1.41	To Inlet B-2 & Bldg Downspouts tie into Pipe
B-3	0.13	Senior Facility	0.90	0.12	10	6.10	0.71	7.10	0.83	8.30	0.97	9.80	1.15	To Inlet B-3 & Bldg Downspouts tie into Pipe
B-4	0.65	Senior Facility	0.90	0.59	10	6.10	3.57	7.10	4.15	8.30	4.86	9.80	5.73	To Inlet B-4
B-5	0.28	Senior Facility	0.90	0.25	10	6.10	1.54	7.10	1.79	8.30	2.09	9.80	2.47	To Inlet B-5
B-6	0.11	Senior Facility	0.90	0.10	10	6.10	0.60	7.10	0.70	8.30	0.82	9.80	0.97	To Inlet B-6
B-7	0.61	Senior Facility	0.90	0.55	10	6.10	3.35	7.10	3.90	8.30	4.56	9.80	5.38	To Courtyard Inlets
B-9	0.17	Senior Facility	0.90	0.15	10	6.10	0.93	7.10	1.09	8.30	1.27	9.80	1.50	To Inlet B-9 & Bldg Downspouts tie into Pipe
C-1	0.10	Senior Facility	0.90	0.09	10	6.10	0.55	7.10	0.64	8.30	0.75	9.80	0.88	Sheet Flow Offsite
C-2	0.15	Senior Facility	0.90	0.14	10	6.10	0.82	7.10	0.96	8.30	1.12	9.80	1.32	Sheet Flow Offsite
C-3	0.10	Senior Facility	0.90	0.09	10	6.10	0.55	7.10	0.64	8.30	0.75	9.80	0.88	Sheet Flow Offsite
D-1	0.57	OFFSITE	0.50	0.29	10	6.10	1.74	7.10	2.02	8.30	2.37	9.80	2.79	From Plans by Tipton Engineering dated 7-12-01 for Meadowcreek Estates Phase IV
OS-1	5.53	OFFSITE	0.54	2.99	10	6.10	18.22	7.10	21.20	8.30	24.79	9.80	29.26	From Plans by Winkelmann & Associates, dated 6-21-02 for State Highway 205 Bypass
OS-2	1.26	OFFSITE	0.90	1.13	10	6.10	6.92	7.10	8.05	8.30	9.41	9.80	11.11	Area between pond and existing 48" culvert under State Highway 276
P-1	1.42	POND AREA	0.90	1.28	10	6.10	7.80	7.10	9.07	8.30	10.61	9.80	12.52	Proposed Detention Pond Area

# OAC SENIOR LIVING, LLC. ROCKWALL BY-PASS ADDITION DRAINAGE AREA MAP ROCKWALL, TEXAS

PROJECT TITLE:  
OAC SENIOR LIVING, LLC.  
ROCKWALL BY-PASS ADDN.

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**RECORD DRAWINGS**

PROJECT NUMBER: 2651-00-01  
PROJECT MANAGER: J. SUMPTER  
DRAWN BY: S. BELL  
CHECKED BY: A. CASCO  
ISSUE DATE: 04/30/2013

TO THE BEST OF OUR KNOWLEDGE MYCOSKIE MCINNIS ASSOCIATES, INC. HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS IS BASED ON SURVEY DATA, VISUAL POST-CONSTRUCTION FIELD OBSERVATIONS AND INFORMATION PROVIDED BY THE CONTRACTOR.

02.12.15 RECORD DRAWINGS AEC

REV. DATE DESCRIP. BY

SHEET CONTENT:  
**DRAINAGE AREA MAP**

SHEET NO:  
**9**

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