





Garden Oaks Civic Club

Garden Oaks and Shepherd Forest Drainage & Paving M-000285-0001-3, Council District C **January 7, 2014**

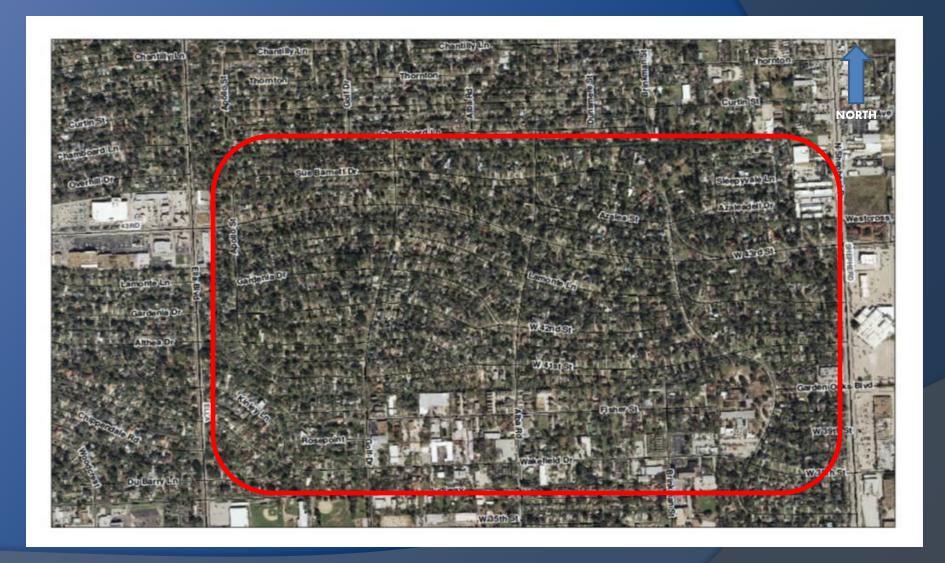
Engineering Branch

Ravi Kaleyatodi, P.E., CPM **Senior Assistant Director**

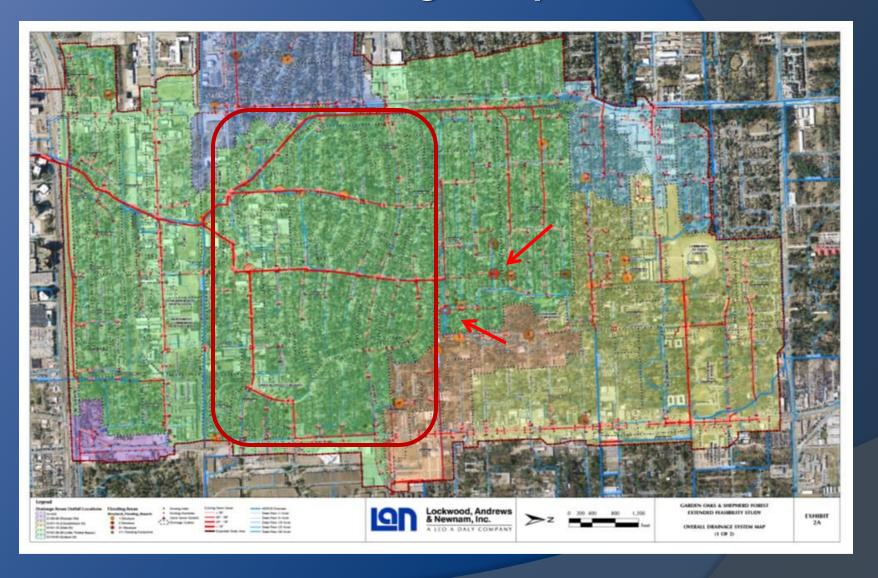
Storm Water Engineering Section

Dane P. Schneider, P.E. – Managing Engineer Jeffrey T. Hall, P.E. – Project Manager

Garden Oaks – Aerial View



Garden Oaks – Flooding Complaints

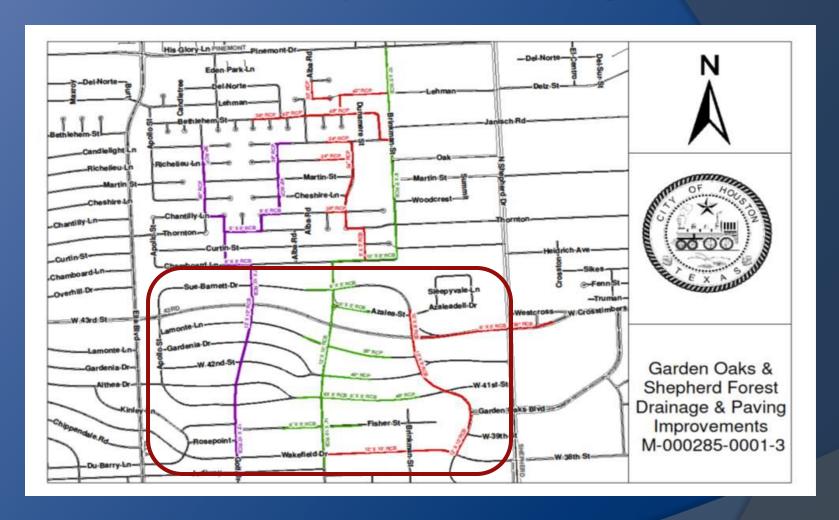


Total Project – Flooding Counts

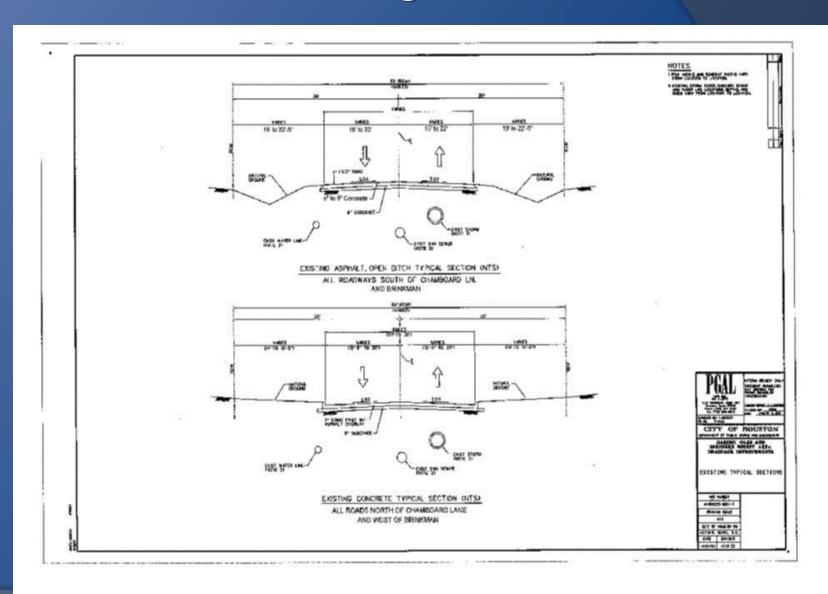
Project Name: Garden Oaks and Shepherd Forest Drainage and Paving Improvements									
WBS No.: M-000285-0001-3									
Table 1: Comparison of Structural Flooding and ECC									
Flooding Instance	Total No. of Parcels	Total No. of Structures	Existing Condition [Impacted Parcels/Structures]	Task B - Inline Detention [Impacted Parcels/Structures]	% Reduction of Task B - 100 yr				
⁽¹⁾ 2-yr HGL touching parcel boundary.	1897	3001	253	11	96%				
(1) 100-yr HGL inundating an area > 100 sq ft of the respective parcel.			1368	178	87%				
(1) 100-yr HGL touching building foot print			777	65	92%				
Estimated Construction Cost (Millions) \$ 46.40									
(1) This product is for informational purposes ONLY and may not have been prepared for or be suitable for legal, engineering or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of prop									
Used the following GIS layers to Geoprocess and perform the * 2011 HCAD Parcels *COH Building Footprint									

Impacted Parcels/Structures in Existing Conditions
Impacted Parcels/Structures in Proposed Conditions
Based upon Hydraulic Analysis

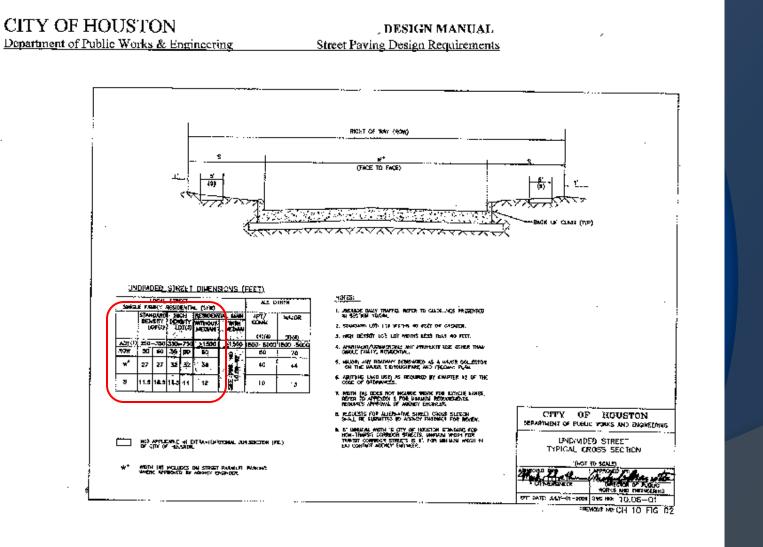
Garden Oaks – Proposed Storm System



Garden Oaks – Existing Pavement Sections



Garden Oaks – Proposed Pavement Section



Garden Oaks – Estimated Construction Cost

	SUB-PROJECT 1	SUB-PROJECT 2	SUB-PROJECT 3		
GENERAL ITEMS	\$706,000	\$784,000	\$750,000		
PAVING ITEMS	\$4,242,000	\$3,202,000	\$4,613,000		
STORM SEWER ITEMS	\$9,040,000	\$6,162,000	\$5,494,000		
WASTEWATER ITEMS	\$706,000	\$341,000	\$358,000		
WATER ITEMS	\$196,000	\$461,000	\$0		
TRAFFIC SIGNALS	\$163,000	\$163,000	\$0		
EXTRA ITEMS	\$11,000	\$9,000	\$5,000		
ALLOWANCES	\$21,000	\$11,000	\$12,000		
MOBILIZATION	\$603,000	\$445,000	\$449,000		
CONTINGENCIES	\$3,017,000	\$2,227,000	\$2,247,000		
TOTALS	\$18,705,000	\$13,805,000	\$13,928,000		
Adopted CIP	Fiscal Year 2015	Not Programmed	Not Programmed		



Engineering and Construction Division





QUESTIONS?