

**1. PAVING**

- I. DESIGN THICKNESS OF PAVING \_\_\_\_\_
- II. STABILIZED SUBGRADE TO A DEPTH OF \_\_\_\_\_ psi
- III. DESIGN STRENGTH OF CONCRETE \_\_\_\_\_ psi
- IV. TYPE AND PLACEMENT OF STEEL: \_\_\_\_\_

**DRIVEWAYS**

- I. NUMBER OF DRIVEWAY APPROACHES PROPOSED: \_\_\_\_\_
- II. HARRIS COUNTY STANDARD DRIVEWAY DETAIL APPEARS ON SHEET \_\_\_\_\_

**FIRE APPARATUS ACCESS ROAD**

- REQUIRED AND SHOWN ON SHEET(S) \_\_\_\_\_
- NOT REQUIRED DUE TO \_\_\_\_\_

**CURBING**

- I. ISLANDS AND MEDIANS REQUIRE STANDARD 6" CURBING
- II.  STANDARD 6" CURBING PROPOSED  
 4" x 12" CURBING PROPOSED  
 6" OR 4" x 12" ALLOWED EXCEPT AT MEDIANS AND ISLANDS

**TRAFFIC CONSIDERATIONS**

- I. MEDIAN CUTS**  
 NO MEDIAN CUT OR RELOCATION IS PROPOSED  
 MEDIAN MODIFICATIONS ARE SHOWN ON SHEET \_\_\_\_\_
- II. LEFT HAND TURN**  
 NO LEFT TURN LANE IS PROPOSED  
 LEFT TURN LANE IS SHOWN ON SHEET \_\_\_\_\_
- III. TRAFFIC CONTROL PLAN**  
 NO WORK IN THE RIGHT OF WAY IS PROPOSED THAT WOULD INTERFERE WITH TRAFFIC FLOW  
 TRAFFIC CONTROL SHOWN ON SHEET \_\_\_\_\_
- IV. EXISTING TRAFFIC CONTROL**  
 DEVICES SHOWN ON PLANS (T.C. BOXES AND LOOPS)

**6. STORM WATER QUALITY**

- I. CONSTRUCTION PROTECTIVE MEASURES.**  
 SWPPP SITE PLAN AND DETAILS ON SHEET(S) \_\_\_\_\_ 8
- II. APPLICABILITY FOR PERMANENT FEATURES.**  
 EXEMPT NEW DEVELOPMENT OF LESS THAN 5 ACRE PARCEL.  
 EXEMPT REDEVELOPMENT OF A 5 ACRE OR LARGER PARCEL WHERE TOTAL IMPERVIOUS SURFACE (EXISTING PLUS PROPOSED) IS LESS THAN 1 ACRE.  
 EXEMPT "GRAND FATHERED" BY AN EXISTING STORM SEWER LINE.  
 "STORM WATER QUALITY MANAGEMENT PLAN" HAS BEEN/WILL BE INCLUDED IN A SEPARATE SUBMITTAL ENTITLED \_\_\_\_\_  
 "STORM WATER QUALITY MANAGEMENT PLAN" INCLUDED. SWQMP SITE PLAN ON SHEET(S) \_\_\_\_\_
- III. STORM WATER QUALITY FEATURES.**  
 VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) \_\_\_\_\_  
 POND STRUCTURE USED (WET, DRY, WETLANDS) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) \_\_\_\_\_  
 HYDRODYNAMIC TYPE SEPERATOR MODEL: \_\_\_\_\_  
 OTHER(S): REINFORCED FILTER FABRIC FENCE

**9. WHEEL CHAIR RAMPS / SIDEWALK**

- WHEEL CHAIR RAMPS PROPOSED YES  NO
- SIDEWALKS PROPOSED YES  NO

NOTE: IF A MAJOR CATEGORY ON THIS SHEET IS NOT REQUIRED FOR THE PROJECT, "X" THROUGH THAT ENTIRE SECTION. CATEGORY (6) MUST BE COMPLETED.

**2. SUBDIVISION DRAINAGE**

- I. DRAINAGE SYSTEM TYPE**  
 STORM SEWER  
 ROADSIDE DITCH
- II. DESIGN METHOD USED**  
 CITY OF HOUSTON \_\_\_\_\_ FREQUENCY  
 OTHER \_\_\_\_\_
- III. DRAINAGE SYSTEM OUTFALL**  
 TO DETENTION POND  
 DETENTION POND MAINTAINED BY \_\_\_\_\_  
 TO HCFCO DRAINAGE DITCH UNIT NO. \_\_\_\_\_  
 TO HARRIS COUNTY ROADSIDE DITCH  
ROAD NAME: \_\_\_\_\_  
 STATIC W.S.E. @ OUTFALL IS \_\_\_\_\_  
 PROPOSED STORM SEWER IS SUBMERGED.
- IV. STORM WATER OUTFALL**  
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: \_\_\_\_\_ (CFS)  
FROM DRAINAGE AREA MAP DATED: \_\_\_\_\_  
PREPARED BY: \_\_\_\_\_  
ACTUAL OUTFALL RATE: \_\_\_\_\_ (CFS)
- OTHER: \_\_\_\_\_
- V. DRAINAGE SYSTEM FLOW RATE**  
FLOW PRIOR TO DETENTION: \_\_\_\_\_ CFS  
FLOW AFTER DETENTION (IF REQUIRED): \_\_\_\_\_ CFS

**7. FLOOD CONTROL DISTRICT CRITERIA**

**I. DETENTION SUMMARY**

STORMWATER DETENTION BASIN ROUTING TABLE							
DETENTION BASIN DRAINAGE AREA = _____ ACRES							
RAINFALL EVENT PROBABILITY	PRE-DEVELOPED PEAK RUNOFF (CFS)	POST-DEVELOPED PEAK RUNOFF (CFS)	DETENTION BASIN PEAK OUTFLOW (CFS)	MAXIMUM WATER SURFACE ELEVATION	PEAK STORAGE VOLUME (AC-FT)	STORAGE RATE (AC-FT PER AC)	
10% EXCEEDANCE (10-YEAR)							
1% EXCEEDANCE (100-YEAR)							

ADDITIONAL CRITERIA FOR PUMPED DETENTION BASINS:  
VOLUME OF PUMPED 1% EXCEEDANCE STORAGE VOLUME = \_\_\_\_\_ AC-FT @ \_\_\_\_\_ CFS  
MAXIMUM DESIGN OUTFLOW VELOCITY INTO HCFCO CHANNEL = \_\_\_\_\_ CFS  
DRAIN TIME FOR BASIN = \_\_\_\_\_ HOURS BASED ON \_\_\_\_\_ HEAD CONDITIONS.

STORMWATER DRAINAGE DESIGN REPORT  
REPORT TITLE: \_\_\_\_\_  
REPORT DATE: \_\_\_\_\_  
DATE OF ACKNOWLEDGEMENT BY HCFCO OR FLOODPLAIN ADMINISTRATOR: \_\_\_\_\_

STORMWATER DETENTION FOR THE PROPOSED WORK CONTAINED IN THESE PLANS IS PROVIDED BY OTHER PLANS:  
PLAN TITLE: \_\_\_\_\_  
ENGINEERING FIRM: \_\_\_\_\_ DATE SIGNED BY HCFCO: \_\_\_\_\_

- II. HCFCO STANDARD NOTES: SEE SHEET \_\_\_\_\_ OF THESE PLANS.
- III. HCFCO STANDARD DETAILS: SEE SHEET \_\_\_\_\_ OF THESE PLANS.
- IV. REFER TO PLAN SHEETS \_\_\_\_\_ FOR EXISTING AND PROPOSED RIGHT OF WAY DELINEATION AND COMPLETE RECORDING INFORMATION TO INCLUDE CLERK'S FILE NUMBERS, TYPE OF ESTATE (E.G., DRAINAGE EASEMENT, FEE STRIP, ETC.) AND GRANTEE (E.G., COH, HCFCO, PUBLIC, TXDOT, ETC.)

**3. SITE DRAINAGE**  
(OTHER THAN SUBDIVISION TYPE PROJECTS)

- I. PROPOSED DRAINAGE AREA**  
 NEW DEVELOPMENT AREA: 0.1 ACRES  
 RE-DEVELOPMENT AREA (AMOUNT INCREASED IMPERVIOUS AREA): \_\_\_\_\_
- II. DETENTION VOLUME (DRY BASIN)**  
NEW AREA \_\_\_\_\_ X 0.65 = \_\_\_\_\_ ACRE-Feet  
DETENTION REQUIRED \_\_\_\_\_  
PROPOSED VOLUME = \_\_\_\_\_ ACRE FEET
- III. OUTFALL**  
OUTFALL TO  ROADSIDE DITCH  
 STORM SEWER  
 OTHER \_\_\_\_\_  
STATIC W.S.E. @ OUTFALL IS \_\_\_\_\_  
ROADSIDE DITCH OUTFALL:  
ROAD FRONTAGE \_\_\_\_\_ X 0.0088 = \_\_\_\_\_ (CFS) ALLOWABLE OUTFALL  
PROPOSED OUTFALL RATE: \_\_\_\_\_  
 STORM SEWER OUTFALL  
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: \_\_\_\_\_ (CFS)  
FROM DRAINAGE AREA MAP DATED: \_\_\_\_\_  
PREPARED BY: \_\_\_\_\_  
ACTUAL OUTFALL RATE: \_\_\_\_\_ (CFS)
- IV. PUMPED DETENTION FACILITIES**  
VOLUME THAT GRAVITY FLOWS: \_\_\_\_\_ ACRE FEET  
VOLUME THAT IS PUMPED: \_\_\_\_\_ ACRE FEET  
ENTRANCE VELOCITY INTO ROADSIDE DITCH OR STORM SEWER: \_\_\_\_\_  
PUMP SPECIFICATIONS AND OPERATING PLAN APPEAR ON SHEET \_\_\_\_\_
- V. FLOW RESTRICTOR SIZE**  
OUTFALL PIPE SIZE: \_\_\_\_\_  
RESTRICTOR PIPE SIZE: \_\_\_\_\_
- VI.**  PROPOSED STORM SEWER IS SUBMERGED.

NOTES:  
I. REQUIRED FOR ALL PROJECTS OTHER THAN SUBDIVISION TYPE PROJECTS. DEVELOPMENT AREA INCLUDES ALL AREA WHERE BUILDING, PAVING OR GRADING WILL OCCUR. AREAS NOT INCLUDED BUT WITHIN THE PROPERTY'S BOUNDARIES MUST BE DELINEATED AS A "NO WORK" AREA ON THE DRAWINGS.  
II. - V. REQUIRED WHEN PROPOSED FACILITY WILL INCREASE THE AMOUNT OF RUNOFF INTO A COUNTY DRAINAGE DITCH, ROADSIDE DITCH OR STORM SEWER. IF ANALYZED AND THE RECEIVING DRAINAGE STRUCTURE HAS CAPACITY IN THE FULLY DEVELOPED CONDITION OF THE AREA IT SERVES, NO DETENTION IS REQUIRED.

**4. WATER AND WASTEWATER**

- I. TYPE OF SERVICE PROPOSED**  
 MUNICIPALITY:  
 MUNICIPAL UTILITY DISTRICT: H.C.M.U.D. No. 191  
 OTHER DISTRICT: \_\_\_\_\_  
 PRIVATE WATER AND WASTEWATER SYSTEMS  
 PRIVATE WATER SYSTEM AND INDIVIDUAL OSSF  
 INDIVIDUAL WATER WELL AND OSSF  
 OTHER:  
 NO UTILITIES ARE PROPOSED
- II. PROOF OF CAPACITY**  
 LETTER FROM DISTRICT AUTHORIZING SERVICE AND CONNECTION  
 TCEQ APPROVAL FOR WATER SYSTEM AND PERMIT FOR WASTEWATER SYSTEM.  
 TCEQ APPROVAL FOR WATER SYSTEM AND OSSF FEASIBILITY REPORT  
 OSSF FEASIBILITY REPORT WHICH CONSIDERS INDIVIDUAL WELLS
- III. AMOUNT OF FLOW**  
 RESIDENTIAL: \_\_\_\_\_ LOTS OR UNITS  
 COMMERCIAL: \_\_\_\_\_ AVERAGE DAILY FLOW  
 OTHER: \_\_\_\_\_

NOTES:  
I. COMPLETE FOR ALL PROJECTS  
II. COMPLETE ONLY IF TCEQ DISCHARGE PERMIT IS PROPOSED

**5. DESCRIPTION OF PROPERTY**

- I. LEGAL DESCRIPTION / PLAT NAME (PROPOSED OR RECORDED):**  
WATER AND SANITARY EXTENSIONS ALONG DOTSON ROAD WITH RECORDED EASEMENTS (HCFC 2007-0197004 2007-0197005, 2007-0176598, 8 2007-0176593 PROP. PLAT HAMMETT ACRES SUBDIVISION (BY OTHERS))  
 NEW PLAT LOCATED IN THESE SURVEYS: \_\_\_\_\_  
 REPLAT OF RECORDED SUBDIVISION OR RESERVE KNOWN AS \_\_\_\_\_
- II. ADJACENT ROADS** DOTSON ROAD AND HARGRAVE ROAD
- III. JURISDICTIONS**  
 CITY OF HOUSTON  
 CITY OF \_\_\_\_\_  
 ETJ, CITY OF HOUSTON  
 UTILITY DISTRICT: HCMUD No. 191  
 OTHER: \_\_\_\_\_
- IV. HCAD ACCOUNT NOS. (ALL)**  
043-046-000-0052; 043-046-000-0053; 043-046-000-0055

NOTES:  
I. - IV. COMPLETE FOR ALL PROJECTS  
II. COMPLETE ONLY IF PROJECT IS LOCATED ADJACENT TO A PUBLIC OR PRIVATE ROAD.

**8. FLOOD PLAIN STATUS**

- I. GENERAL INFORMATION**  
FIRM PANEL(S) FOR PROPERTY: 48201C0435L  
FIRM PANEL(S) DATE: REVISED PRELIMINARY JUNE 9, 2006  
STATUS OF PROPERTY ON MAP  
 LOCATED IN UNSHADED ZONE "X"  
 ENTIRELY LOCATED IN SHADED AND UNSHADED ZONE "X"  
 LOCATED PARTIALLY IN ZONE "AE" DELINEATE ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT)  
 LOCATED ENTIRELY IN ZONE "AE" (INDICATE BASE FLOOD LEVEL ON CONSTRUCTION DRAWINGS)  
 OTHER \_\_\_\_\_  
 SITE REMOVED FROM FLOODPLAIN BY LOMA OR LOMR-F CASE NO. \_\_\_\_\_
- FLOOD HAZARD RECOVERY DATA**  
 FLOOD HAZARD RECOVERY DATA AVAILABLE AND UTILIZED (PROVIDED INFORMATION BASED ON 1973 AND 2001 ADJUSTMENTS).  
 FLOOD HAZARD RECOVERY DATA NOT AVAILABLE.
- ELEVATION INFORMATION**  
BENCHMARK USED  
 FEMA RM benchmark  
 HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)  
 OTHER TSARP RM No. 150770  
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT:  
LOCATED 100 FEET NORTH OF INTERSECTION OF F.M. 1960 AND BRETON RIDGE STREET. ELEV. 120.92; NAVD 88, 2001 ADJ.
- II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION**  
 PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN ZONE "X" (SHADED OR UNSHADED)  
 PROPERTY LIES PARTIALLY BELOW THE BASE FLOOD LEVEL (MUST BE DELINEATED ON TOPOGRAPHIC SURVEY)
- III. FLOODPLAIN STORAGE SUMMARY** (APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FLOODPLAIN AS DELINEATED BY FIRM PANELS)  
A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.):  
i.e., BELOW ELEVATION \_\_\_\_\_ (19 \_\_\_\_\_ ADJ.) \_\_\_\_\_ CUBIC YARDS  
B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN:  
i.e., BELOW ELEVATION \_\_\_\_\_ (19 \_\_\_\_\_ ADJ.) \_\_\_\_\_ CUBIC YARDS
- IV.**  LOMR REQUIRED

NOTES:  
I. COMPLETE FOR ALL PROJECTS  
II. COMPLETE ONLY IF PROJECT IS ADJACENT TO 100-YEAR FLOOD PLAIN

VERIFIED BY: ONE NO 10/10/07

43241  
CITY PLANNING NUMBER  
HOUSTON, TEXAS

**HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT EXPRESS REVIEW SHEET**

**HCPID SIGNATURE BLOCK**  
PROJECT KNOWN AS:  
WATER AND SANITARY SEWER EXTENSIONS ALONG DOTSON ROAD  
WAS ACCEPTED BY THE FOLLOWING GROUPS FOR THE PURPOSES LISTED BELOW:  
**ENGINEERING DIVISION**

BY: \_\_\_\_\_ INTERPOSE NO OBJECTION \_\_\_\_\_ DATE: \_\_\_\_\_  
BY: \_\_\_\_\_ AS TO PAVING AND/OR DRAINAGE ONLY \_\_\_\_\_ DATE: \_\_\_\_\_  
BY: Shannon C. Watson 4/23/07 AS TO LOCATION OF ITEMS IN COUNTY RIGHT OF WAY \_\_\_\_\_ DATE: \_\_\_\_\_  
BY: PSWQ not required SM 20 Apr 2006 AS TO STORM WATER QUALITY \_\_\_\_\_ DATE: \_\_\_\_\_  
**HARRIS COUNTY FLOOD CONTROL DISTRICT**  
INTERPOSE NO OBJECTION  
BY: No Review Required - WCB 4-20-07 FOR ITEMS LOCATED OUTSIDE OF HCFCO RIGHT-OF-WAY \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
BY: \_\_\_\_\_ FOR ITEMS LOCATED WITHIN EXISTING HCFCO RIGHT-OF-WAY \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
BY: \_\_\_\_\_ FOR ITEMS LOCATED WITHIN PROPOSED HCFCO RIGHT-OF-WAY \_\_\_\_\_ DATE: \_\_\_\_\_  
ADDITIONAL COMMENTS: \_\_\_\_\_

RECORD DRAWING

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. THESE SIGNATURES ARE VALID FOR A MAXIMUM OF TWO YEARS.

**ENGINEER'S CERTIFICATION**  
I, JOSEPH PETER CASTRONOVO, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.  
THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS 1 THRU 13  
Joseph Peter Castronovo 4/15/2007  
DATE

REVISIONS

DATE	SHEET NO.	DESCRIPTION	ACKNOWLEDGMENT

REQUEST NO. 1008577      APPLICANT NO. \_\_\_\_\_      SHEET NUMBER 13 OF 13  
ADDENDUM No. 1