



# City of Galveston

ENGINEERING DIVISION  
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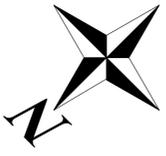
- A. Existing and Post Construction spot elevations on a 15 foot grid, including lot corners, along property boundaries, and around building perimeters.
- B. All building footprints, dimensions, easements, and main floor elevations.
- C. Existing and proposed surface treatment throughout property (swales, paving, landscaping, fence, gravel, etc.)
- D. Drainage is conveyed safely to the ROW, drainage easement, or to the Bay without impacting the public.
- E. Subsurface site drainage required for sites larger than 15,000 square feet or having a frontage wider than 150-ft.
- F. Maximum 12 inch rise in elevation with fill in VE zones per FEMA requirements along with P.E. certification that "Fill shall not be used to support structures".
- G. If the lot drains directly to the bay, provide spot elevations (no P.E. or R.P.L.S. seals are required).
- H. If there is no subdivision drainage plan (as-built) and there are no changes to existing grades, a statement **signed and sealed by Texas Professional Engineer** is required on the plan that states **"No fill shall be brought onsite, no changes shall be made to existing grading, and post development drainage shall not impact the public. Contractor/builder shall be 100% liable for deviation from these requirements"**.
- I. If there is an existing subdivision drainage plan (as-built) and site topography is not being altered:
  1. please request the approved drainage plan (as-built) online at: <http://www.galvestontx.gov/537/Public-Records>,
  2. attach the approved drainage plan (as-built) to the permit application,
  3. reference (2) in your site plan and have the Texas Professional Engineer state, **"No fill shall be brought to site, no changes shall be made to existing grading or drainage plan (as-built), and there shall be no drainage impact to neighborhood properties. Contractor/builder shall be 100% liable for deviation from these requirements based on City Inspection."**

City of Galveston's details for application to your engineering design are at:

<http://www.cityofgalveston.org/921/Details>

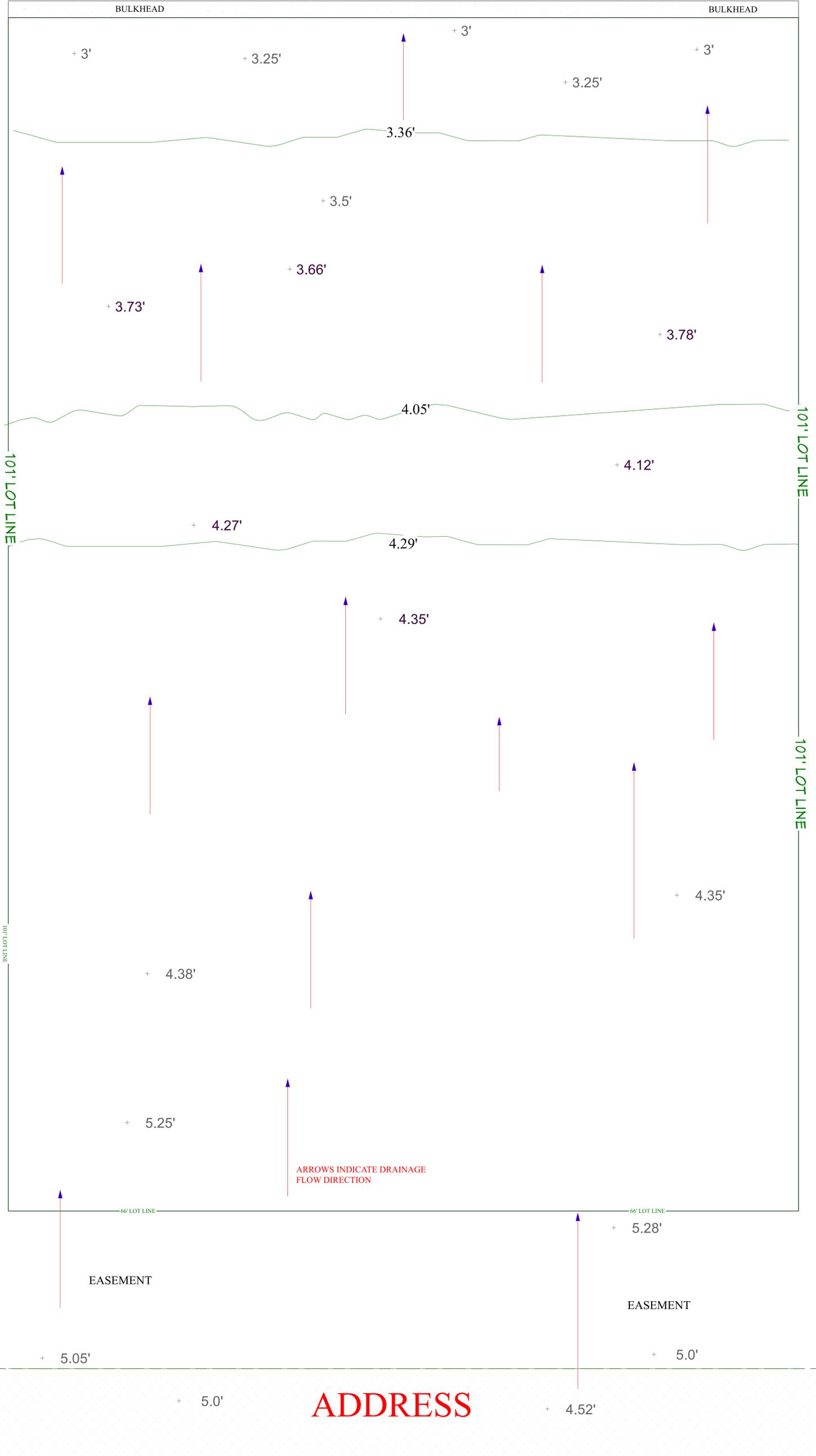






NEWLY BULKHEAD  
36" MSL

# CANAL



THE BUILD SITE HAS A NEW RESIDENTIAL CONSTRUCTION PERMIT IN PLACE AND THERE ARE NO EXISTING STRUCTURES ON THE SITE

ARROWS INDICATE DIRECTION OF BOTH CURRENT AND PROPOSED GRADE SLOPE

ELEVATIONS ARE HEIGHT ABOVE SEA LEVEL ONCE GRADING IS COMPLETED UNDER PROPOSED FILL PLAN. NO GRADE CHANGE IS PROPOSED FOR AREAS OUTSIDE OF THE FILL AREA

EXISTING DRAINAGE GRADE OF THE SITE IS A SHEET TYPE SLOPE OVER THE ENTIRE DISTANCE FROM MARTES STREET SOUTHWARD TOWARDS CANAL. THE MAJORITY OF THIS SLOPE ANGLE IS UNAFFECTED BY THE PROPOSED FILL INSTALLATION

NO CURRENT POOLING EXISTS NOR WILL ANY BE CREATED BY THE PROPOSED FILL PLAN

A SLIGHT FLATTENING OF THE PREVIOUS SLOPE WILL OCCUR AS A RESULT OF THE NEW BULKHEAD AND CAP, HOWEVER THERE WILL BE **NO** ADVERSE AFFECT TO THE SITE'S ABILITY TO DRAIN, NOR WILL THERE BE ANY ADVERSE AFFECTS TO THE NEIGHBORING PROPERTY'S DRAINAGE CAPABILITY.

PORTIONS OF THE PROPOSED FILL IS ENTIRELY NECESSARY AND INTEGRAL TO THE STRUCTURAL INTEGRITY OF THE NEWLY INSTALLED CONCRETE BULKHEAD

RECENT STORMS HAVE ERODED AND WASHED OUT THE SOIL IN AREAS CURRENTLY UNDER CONSTRUCTION. APPROXIMATELY 8-10% OF THE FILL IS TO REPLACE THAT LOST SOIL.

THE PROPOSED FILL WILL PREVENT EROSION AND SOIL WASHOUTS OF THE PROPERTY WHICH FREQUENTLY OCCUR DURING TIMES OF TIDAL AND RAIN INDUCED FLOODING

THE MAXIMUM DEPTH OF THE FILL, WHICH WILL BE ~10' NORTH OF THE BULKHEAD, WILL BE 12" ABOVE THE PREVIOUS GRADE. THE AVERAGE DEPTH OF THE FILL OVER THE ENTIRETY OF THE PROPOSED AREA WILL BE 6" AND WILL BE TAPERED TO MATCH THE ELEVATION OF THE PROPERTY'S ADJACENT TO THE PROPOSED FILL AREA

A SHALLOW BERM WILL BE FORMED ALONG THE EAST AND WEST SIDE PROPERTY LINES AT FINAL GRADING. THIS BERM WILL DIRECT DRAINAGE AWAY FROM NEIGHBORING PROPERTY AND INTO A SHALLOW DITCH THAT FOLLOWS THE NATURAL SHEET FLOW TOPOGRAPHY TOWARDS CANAL.

ARROWS INDICATE DRAINAGE FLOW DIRECTION

PE SEAL



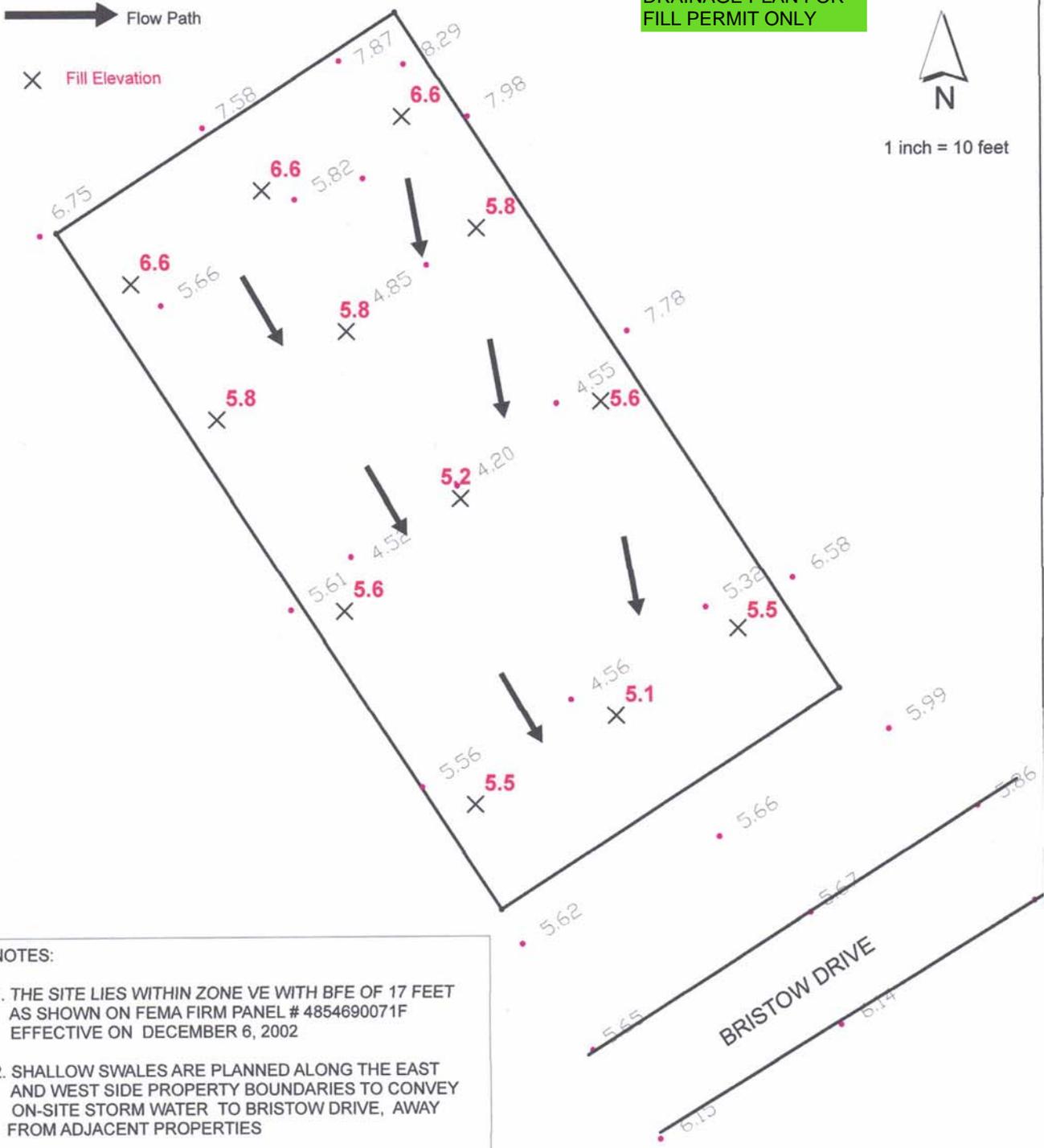
**DRAINAGE PLAN FOR  
FILL PERMIT ONLY**

→ Flow Path

× Fill Elevation



1 inch = 10 feet



**NOTES:**

1. THE SITE LIES WITHIN ZONE VE WITH BFE OF 17 FEET AS SHOWN ON FEMA FIRM PANEL # 4854690071F EFFECTIVE ON DECEMBER 6, 2002
2. SHALLOW SWALES ARE PLANNED ALONG THE EAST AND WEST SIDE PROPERTY BOUNDARIES TO CONVEY ON-SITE STORM WATER TO BRISTOW DRIVE, AWAY FROM ADJACENT PROPERTIES
3. PROPOSED FILLS WILL PREVENT PONDING ISSUES AT THE LOT DURING RAIN EVENTS
4. PROPOSED FILLS HAVE NO ADVERSE DRAINAGE IMPACT ON EXISTING DRAINAGE WATERSHED AS WELL AS ON ADJACENT PROPERTIES
5. CONTRACTOR WILL TAPE FILLS TO MATCH ELEVATIONS OF ADJACENT PROPERTIES
6. THE MAXIMUM DEPTH OF THE FILL WILL BE 12" ABOVE EXISTING NATURAL GROUND

**PE  
SEAL**