

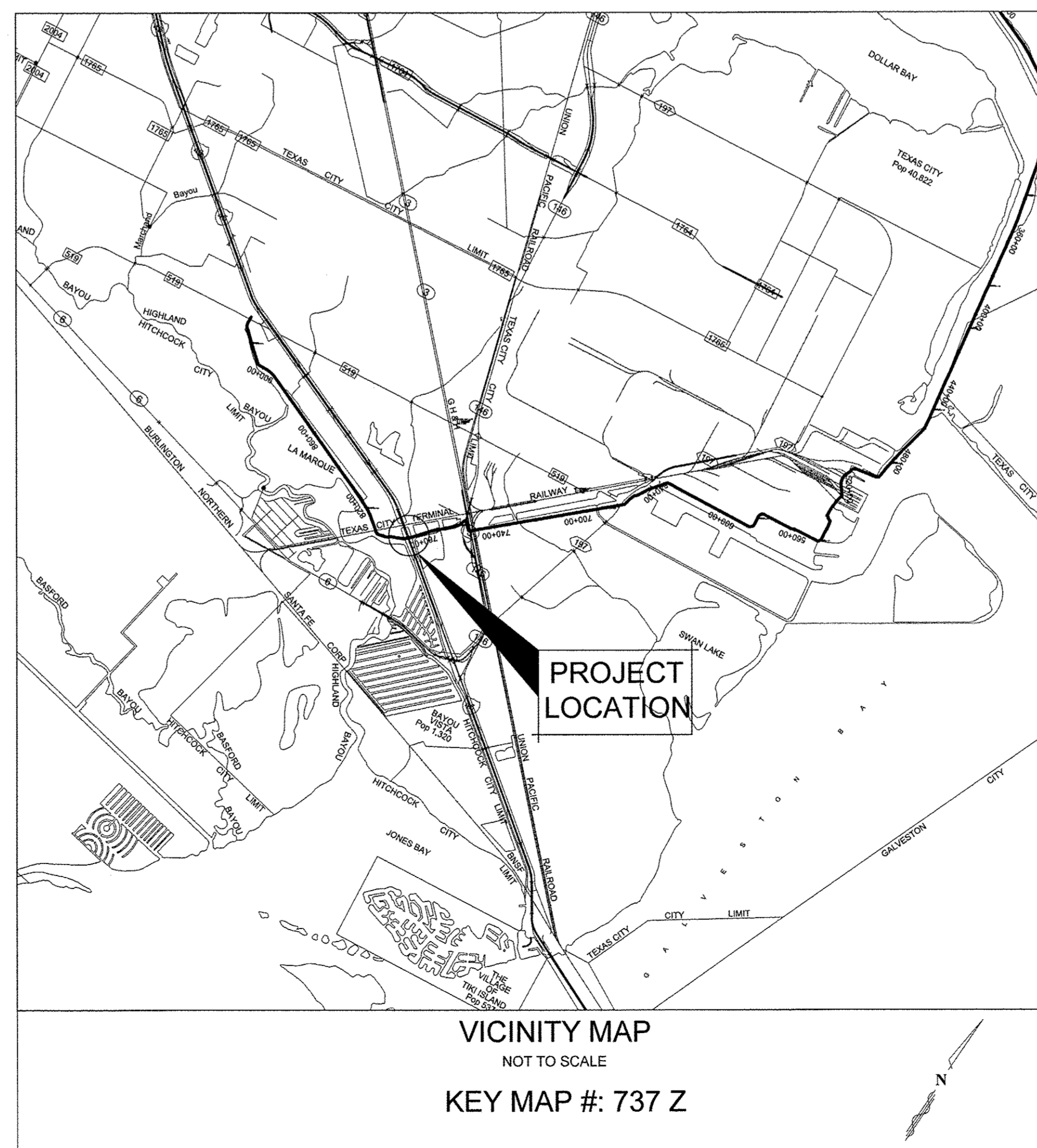


THE COUNTY OF GALVESTON

722 MOODY AVE.
 GALVESTON, TEXAS 77550
 409-770-5554

TEXAS CITY HURRICANE - FLOOD PROTECTION LEVEE REPAIR AT IH-45

February 10, 2014



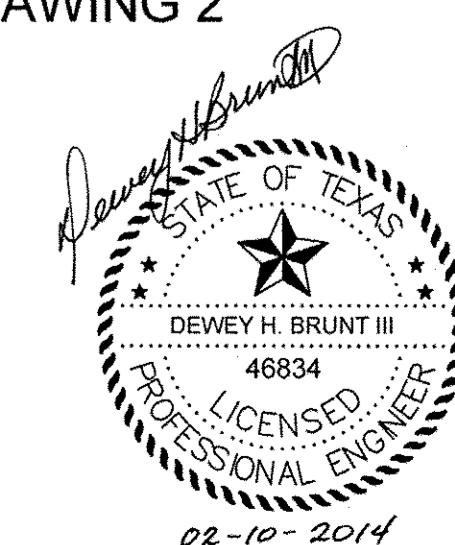
GALVESTON COUNTY COMMISSIONERS

COUNTY JUDGE	HONORABLE MARK A. HENRY
PRECINCT #1	HONORABLE RYAN DENNARD
PRECINCT #2	HONORABLE KEVIN O'BRIEN
PRECINCT #3	HONORABLE STEPHEN D. HOLMES
PRECINCT #4	HONORABLE KEN CLARK
COUNTY ENGINEER	MR. MIKE FITZGERALD, P.E.

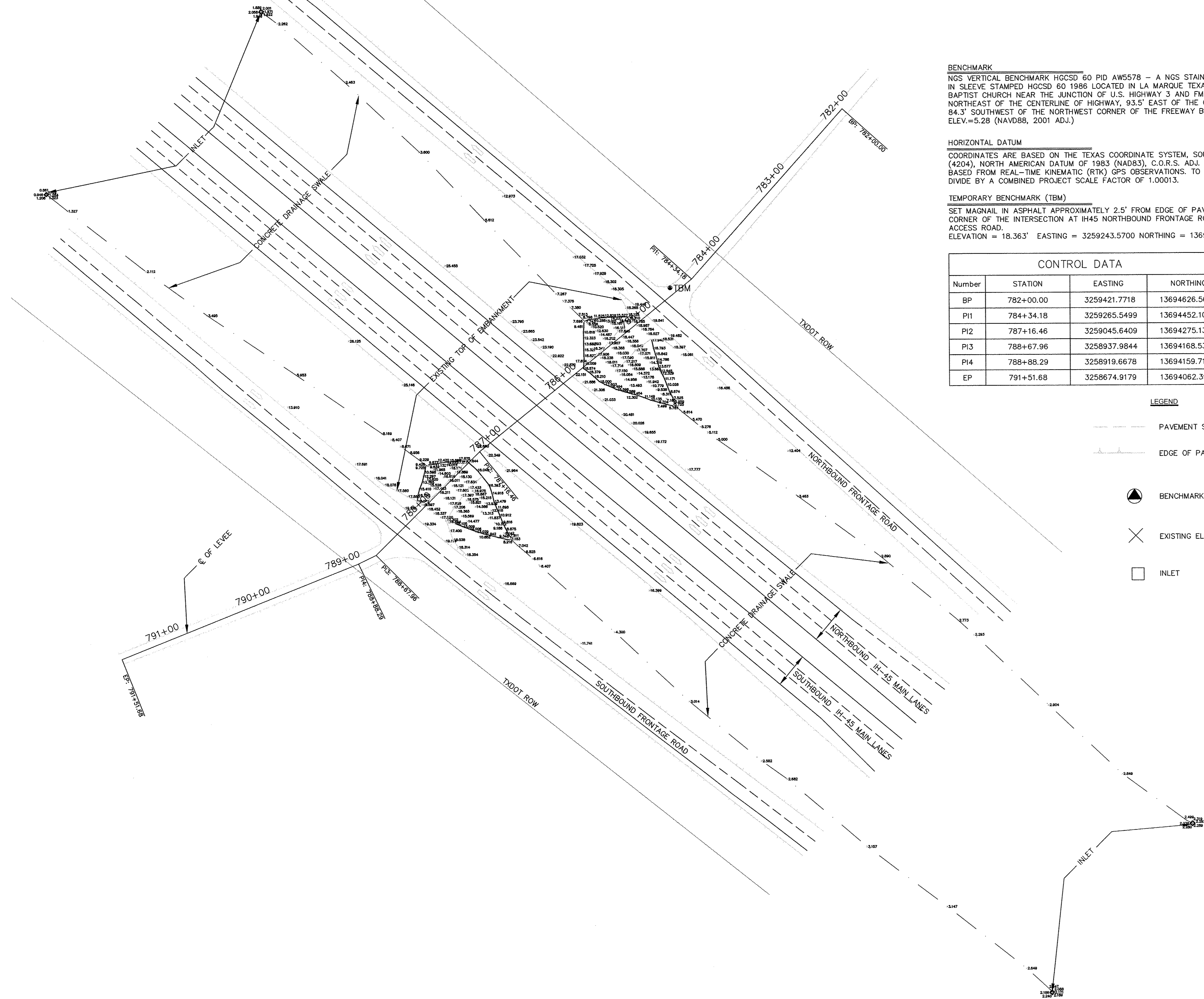
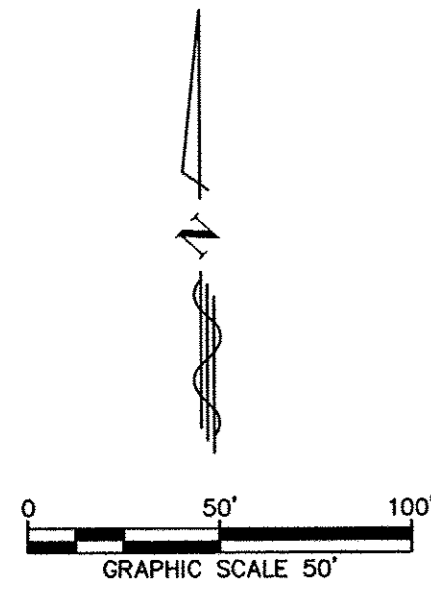
INDEX

No.	TITLE
1.	COVER
2.	GENERAL NOTES
3.	EXISTING ELEVATIONS AND SURVEY CONTROL
4.	PLAN & PROFILE
5.	TRAFFIC CONTROL PLAN
6.	TRAFFIC CONTROL STANDARDS
7.	SWPPP
8.	SWPPP DETAILS
9.	REFERENCE DRAWING 1
10.	REFERENCE DRAWING 2

HUITT-ZOLLARS
 Huitt-Zollars, Inc. TPBE Reg. No. F-761
 1500 South Dairy Ashford Street, Suite 200
 Houston, Texas 77077-3858
 Phone (281) 496-0066 Fax (281) 496-0220



HUITT-ZOLLARS I:\R301820.01 TOHFP Levee Repairs\4-18 Design Development\03 SURVEY.dwg Plotted: Feb 10, 2014 - 5:13 PM mtehrani



BENCHMARK
 NGS VERTICAL BENCHMARK HGSD 60 PID AW5578 - A NGS STAINLESS STEEL ROD IN SLEEVE STAMPED HGSD 60 1986 LOCATED IN LA MARQUE TEXAS, AT THE FREEWAY BAPTIST CHURCH NEAR THE JUNCTION OF U.S. HIGHWAY 3 AND FM 1765. 277.9' NORTHEAST OF THE CENTERLINE OF HIGHWAY, 93.5' EAST OF THE CENTER OF 3RD AVENUE, 84.3' SOUTHWEST OF THE NORTHWEST CORNER OF THE FREEWAY BAPTIST CHURCH. ELEV.=5.28 (NAVD88, 2001 ADJ.)

HORIZONTAL DATUM
 COORDINATES ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE (4204), NORTH AMERICAN DATUM OF 1983 (NAD83), C.O.R.S. ADJ. SURFACE DATUM BASED FROM REAL-TIME KINEMATIC (RTK) GPS OBSERVATIONS. TO CONVERT TO SURFACE DIVIDE BY A COMBINED PROJECT SCALE FACTOR OF 1.00013.

TEMPORARY BENCHMARK (TBM)
 SET MAGNAIL IN ASPHALT APPROXIMATELY 2.5' FROM EDGE OF PAVEMENT AT THE NORTH CORNER OF THE INTERSECTION AT IH45 NORTHBOUND FRONTAGE ROAD AND THE LEVEE ACCESS ROAD. ELEVATION = 18.363' EASTING = 3259243.5700 NORTHING = 1369443.2700

CONTROL DATA			
Number	STATION	EASTING	NORTHING
BP	782+00.00	3259421.7718	13694626.5618
PI1	784+34.18	3259265.5499	13694452.1018
PI2	787+16.46	3259045.6409	13694275.1334
PI3	788+67.96	3258937.9844	13694168.5383
PI4	788+88.29	3258919.6678	13694159.7186
EP	791+51.68	3258674.9179	13694062.3927

- LEGEND**
- PAVEMENT STRIPING
 - EDGE OF PAVEMENT
 - BENCHMARK
 - EXISTING ELEVATION
 - INLET

NO.	REVISION	DATE

HUITT-ZOLLARS
 Huitt-Zollars, Inc. TBPE Reg. No. F-761
 1500 South Dairy Ashford St, Suite 200
 Houston, Texas 77077-3865
 Ph (281) 496-0066 Fax (281) 496-0220

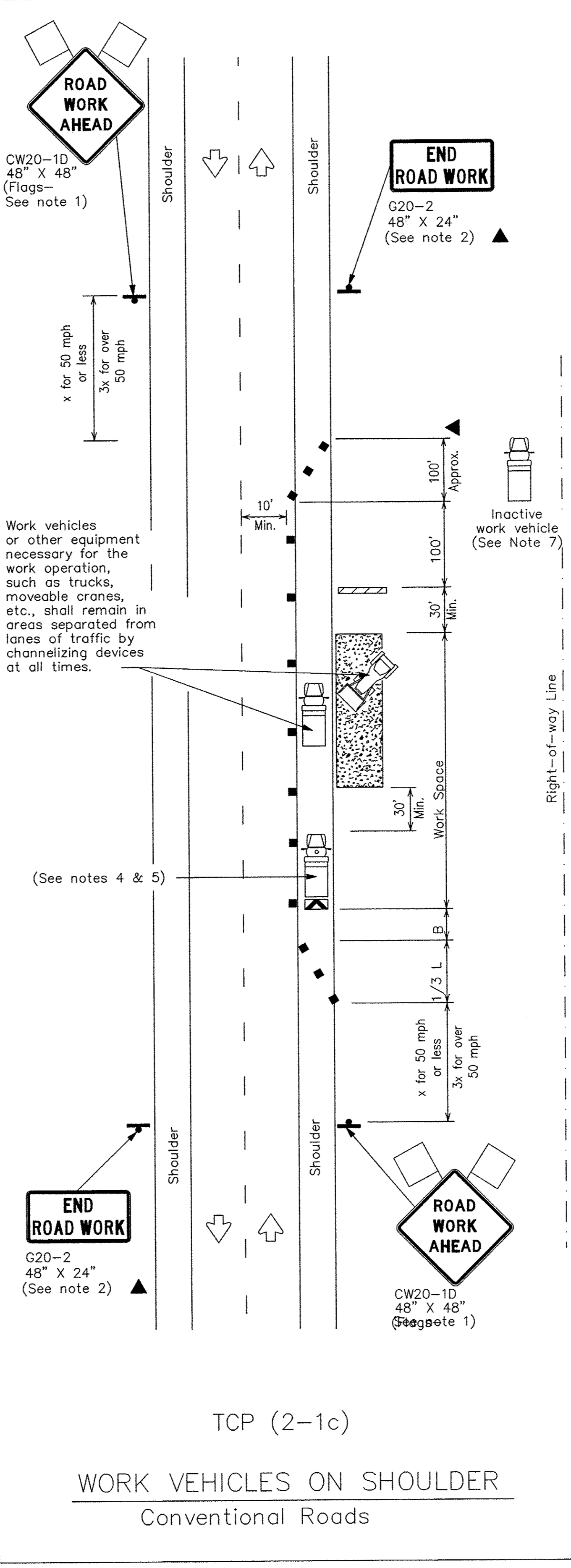
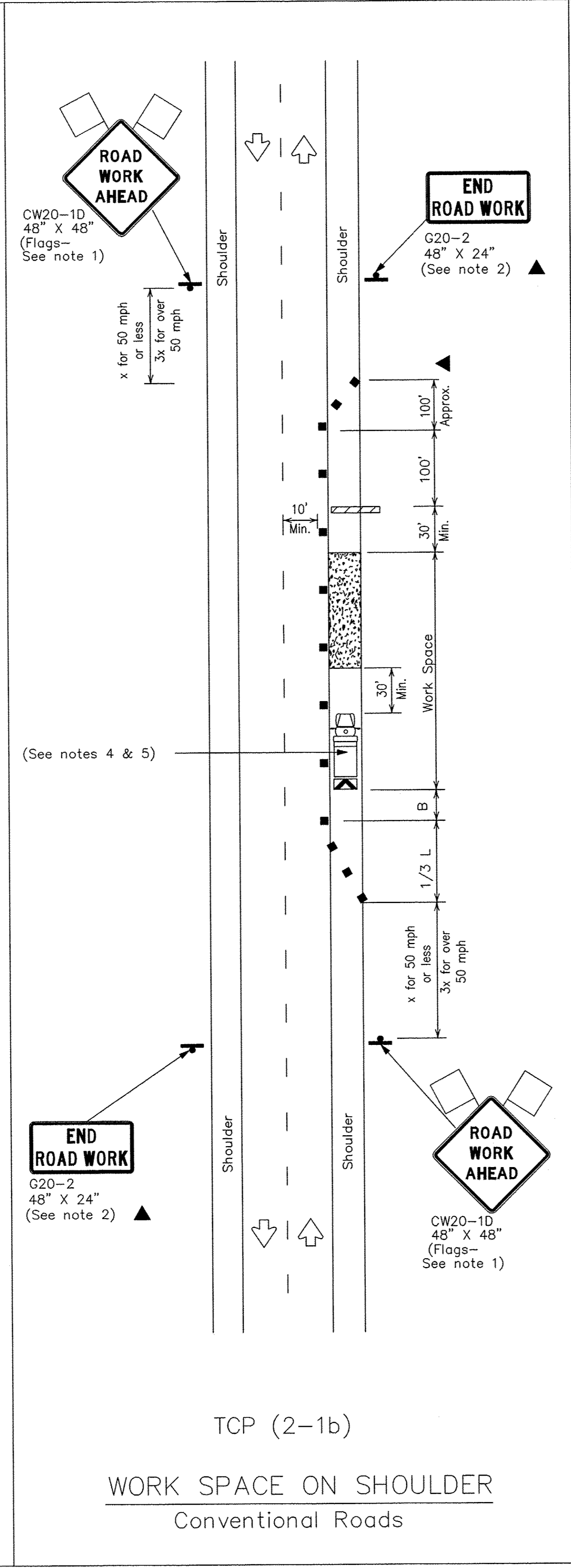
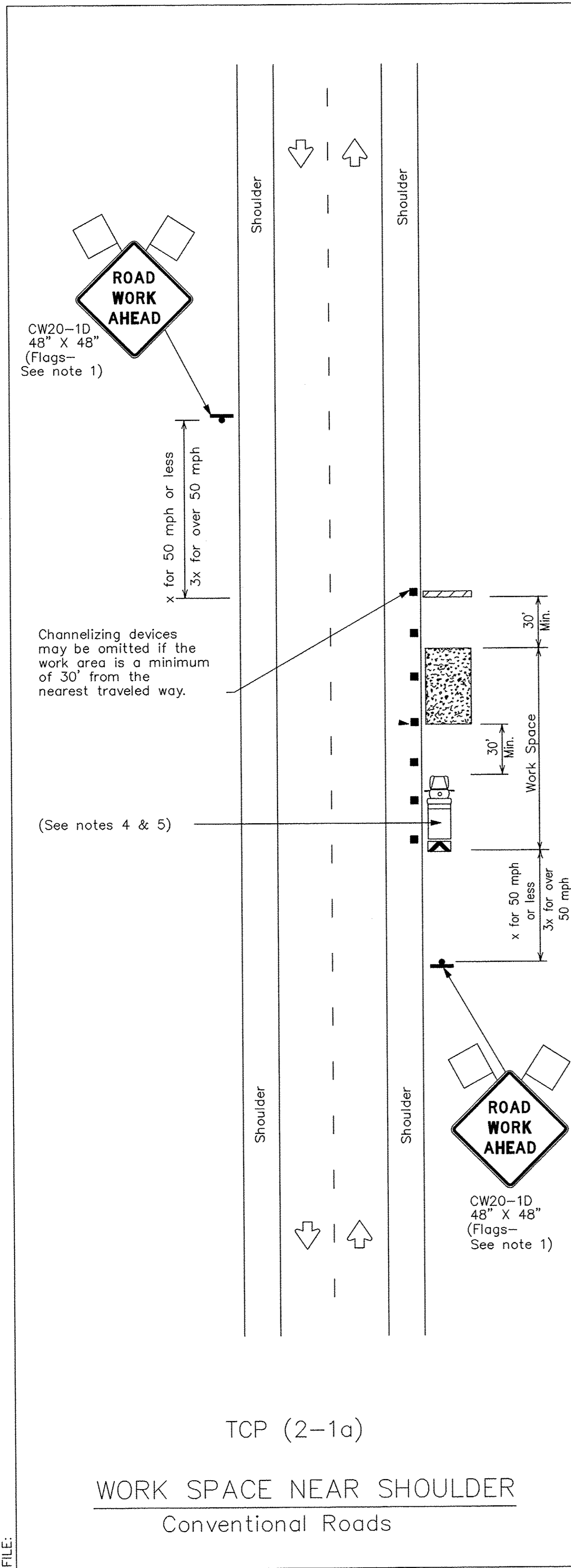
TEXAS CITY HURRICANE - FLOOD PROTECTION LEVEE REPAIR AT IH-45

EXISTING ELEVATIONS AND SURVEY CONTROL

DATE: 10/31/13
 DRAWN: T.G.
 DESIGNED: M.T.
 CHECKED:
 PROJ. No.: R301820.01

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty, of any kind is made by TXDOT for any purpose whatsoever. TXDOT assumes no responsibility for the consequences of the use of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:



LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55	$L = WS$	550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	✓

GENERAL NOTES

- Flags attached to signs where shown, are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
- Stockpiled material should be placed a minimum of 30 feet from nearest traveled way.
- Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
- See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
- Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- CW21-5 "SHOULDER WORK" signs may be used in place of CW21-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for item 502, Barricades, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN
CONVENTIONAL ROAD
SHOULDER WORK

TCP(2-1)-12

©TXDOT December 1985	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
REVISIONS	CONT	SECT	JOB	HIGHWAY
2-94 2-12				
8-95				
1-97				
4-98				
161				

NO.	REVISION	DATE

HUETT-ZOLLARS
Huett-Zollars, Inc. TPBE Reg. No. F-761
1500 South Dairy Ashford St. Suite 200
Houston, Texas 77077-8858
Ph (281) 496-0056 Fax (281) 496-0220

TEXAS CITY HURRICANE - FLOOD PROTECTION LEVEE REPAIR AT IH-45

TRAFFIC CONTROL STANDARDS

DATE: 10/31/13
DRAWN: T.G.
DESIGNED: M.T.
CHECKED:
PROJ. No.: R301820.01

HUITT-ZOLLARS I:\R301820.01 TCHFP Levee Repairs\4 DESIGN PHASE\4-18 Design Development\07 STANDARD.dwg Plotted: Feb 10, 2014 6:58 PM mtehrani

SITE DESCRIPTION

PROJECT LIMITS: FROM SHOULDER OF SOUTHBOUND FRONTAGE ROAD TO 20 FEET FROM SHOULDER ON IH45 MAIN LANES, 400 FEET ON EITHER SIDE OF LEVEE.
 FROM SHOULDER OF NORTHBOUND FRONTAGE ROAD TO 20 FEET FROM SHOULDER ON IH45 MAIN LANES, 400 FEET ON EITHER SIDE OF LEVEE.

PROJECT DESCRIPTION: REPAIRING LEVEE BY REMOVING TOPSOIL AND ADDING 1.5 FEET OF FILL TO SURFACE ELEVATION.

MAJOR SOIL DISTURBING ACTIVITIES: REMOVING TOPSOIL AND ADDING 1.5 FEET OF FILL TO SURFACE ELEVATION. HYDROMULCH ALL DISTURBED AREAS.

TOTAL PROJECT AREA: 0.4 ACRES

TOTAL AREA TO BE DISTURBED: .22 ACRES

WEIGHTED RUNOFF COEFFICIENT: (AFTER CONSTRUCTION): 0.3

EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: EXISTING COVER IS 100% GRASS

NAME OF RECEIVING WATERS: HIGHLAND BAYOU

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

TEMPORARY SEEDING
 PERMANENT PLANTING, SODDING, OR SEEDING
 MULCHING
 SOIL RETENTION BLANKET
 BUFFER ZONES
 PRESERVATION OF NATURAL RESOURCES

OTHER: _____

STRUCTURAL PRACTICES:

SILT FENCES
 HAY BALES
 ROCK BERMS
 DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
 DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
 DIVERSION DIKE AND SWALE COMBINATIONS
 PIPE SLOPE DRAINS
 PAVED FLUMES
 ROCK BEDDING AT CONSTRUCTION EXIT
 TIMBER MATTING AT CONSTRUCTION EXIT
 CHANNEL LINERS
 SEDIMENT TRAPS
 SEDIMENT BASINS
 STORM INLET SEDIMENT TRAP
 STONE OUTLET STRUCTURES
 CURBS AND GUTTERS
 STORM SEWERS
 VELOCITY CONTROL DEVICES
 EROSION CONTROL LOGS

OTHER: _____

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

REMOVING TOPSOIL AND ADDING 1.5 FEET OF FILL TO SURFACE ELEVATION. HYDROMULCH ALL DISTURBED AREAS.

STORM WATER MANAGEMENT: STRIP AND STOCKPILE 4 INCHES OF TOPSOIL FROM AREAS TO BE FILLED. SCARIFY EXPOSED LEVEE BEFORE PLACING FILL. SPREAD STOCKPILED TOPSOIL UP TO 3 INCHES ON FINISHED/DISTURBED AREAS.

OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE: ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREA ADJACENT TO CREEKS AND DRAINAGEWAYS SHALL HAVE PRIORITY FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.

INSPECTION: ALL INSPECTIONS WILL BE PERFORMED BY A TxDOT INSPECTOR PER ONE OF THE OPTIONS BELOW AS DIRECTED BY THE AREA ENGINEER
 1. AT LEAST EVERY 7 CALENDAR DAYS
 2. AT LEAST EVERY 14 DAYS OR AFTER 0.5 INCHES OR MORE OF RAINFALL
 AN INSPECTION AND MAINTENANCE REPORT SHOULD BE MADE FOR EACH INSPECTION. BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE REVISED ACCORDING TO THE INSPECTION REPORT.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING): _____ IN THE EVENT OF A SPILL WHICH MAY BE CONSIDERED HAZARDOUS, THE HOUSTON DISTRICT SAFETY OFFICE SHALL BE CONTACTED IMMEDIATELY AT 713-802-5962.

WASTE MATERIALS: THE DUMPSTER USED TO STORE ALL WASTE MATERIAL WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.

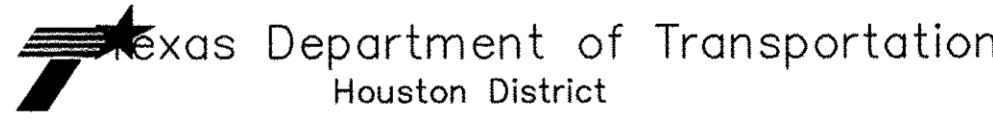
SANITARY WASTE: N/A

OFFSITE VEHICLE TRACKING:

HAUL ROADS DAMPENED FOR DUST CONTROL
 LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
 EXCESS DIRT ON ROAD REMOVED DAILY
 STABILIZED CONSTRUCTION ENTRANCE

OTHER: _____

REMARKS: DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE SEDIMENT THAT MAY ENTER RECEIVING WATERWAYS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WATERWAY, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER WHICH MINIMIZES THE RUNOFF OF ALL POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED AS SOON AS PRACTICAL OF TEMPORARY EMBANKMENTS, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING, DEBRIS, AND OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT PART OF THE FINISHED WORK.



TxDOT STORM WATER POLLUTION PREVENTION PLAN

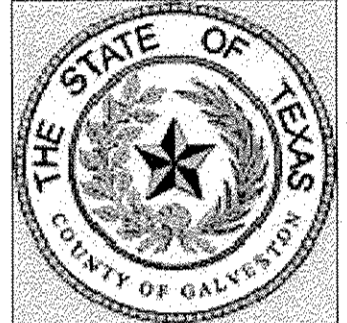
SWP3

FILE: STDG1.DGN	DN: TxDot	CK: TxDot	DW: TxDot	CR: TxDot
© TxDOT JANUARY 2007	DIST: HOUSTON	FED REG: 6	PROJECT NO:	SHEET
REV. 9/2010 INSPECTION NOTE	COUNTY:	CONTROL SECT:	JOB:	HIGHWAY:
REV. 9/2013 INSPECTION NOTE				
REV. 11/2013 SWP TO SWP3				

NO.	REVISION	DATE

HUITT-ZOLLARS

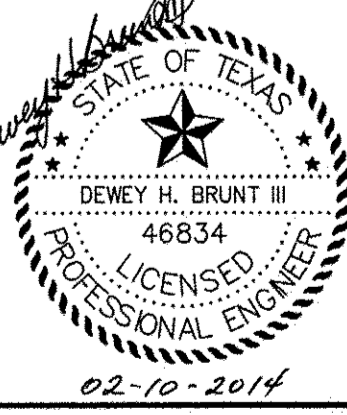
Huitt-Zollars, Inc. TBPB Reg. No. F-761
 1500 South Dairy Ashford St, Suite 200
 Houston, Texas 77077-3658
 Ph (281) 496-0056 Fax (281) 496-0220



THE STATE OF TEXAS
 COUNTY OF GALVESTON

TEXAS CITY HURRICANE - FLOOD PROTECTION LEVEE REPAIR AT IH-45

SWPPP



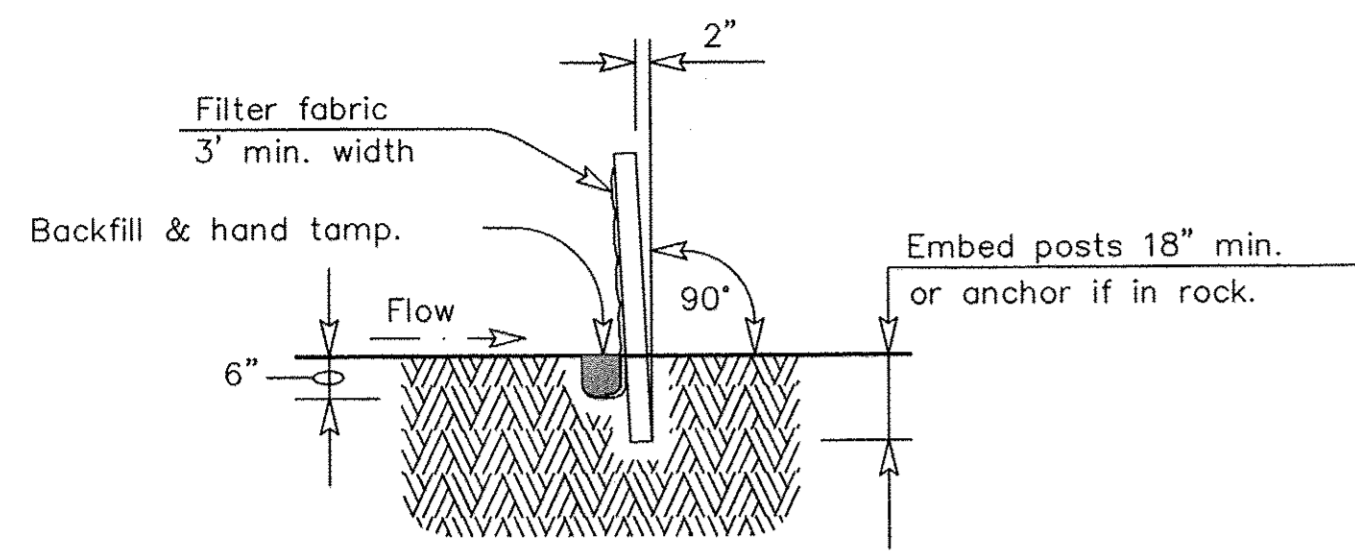
STATE OF TEXAS
 DENNY H. BRUNT III
 46834
 LICENSED PROFESSIONAL ENGINEER
 02-10-2014

DATE: 10/31/13
 DRAWN: T.G.
 DESIGNED: M.T.
 CHECKED:
 PROJ. No.: R301820.01

STD G-1

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:



SECTION A-A

GENERAL NOTES

1. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

PLAN SHEET LEGEND

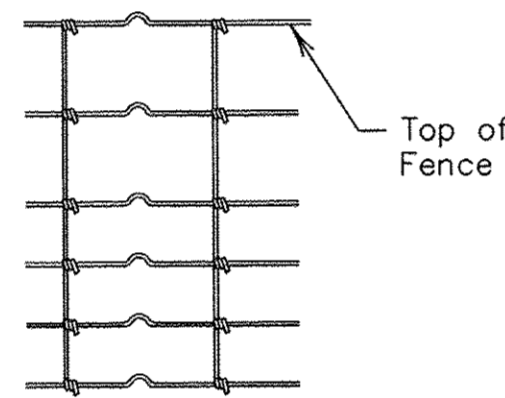
Sediment Control Fence — SCF —

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

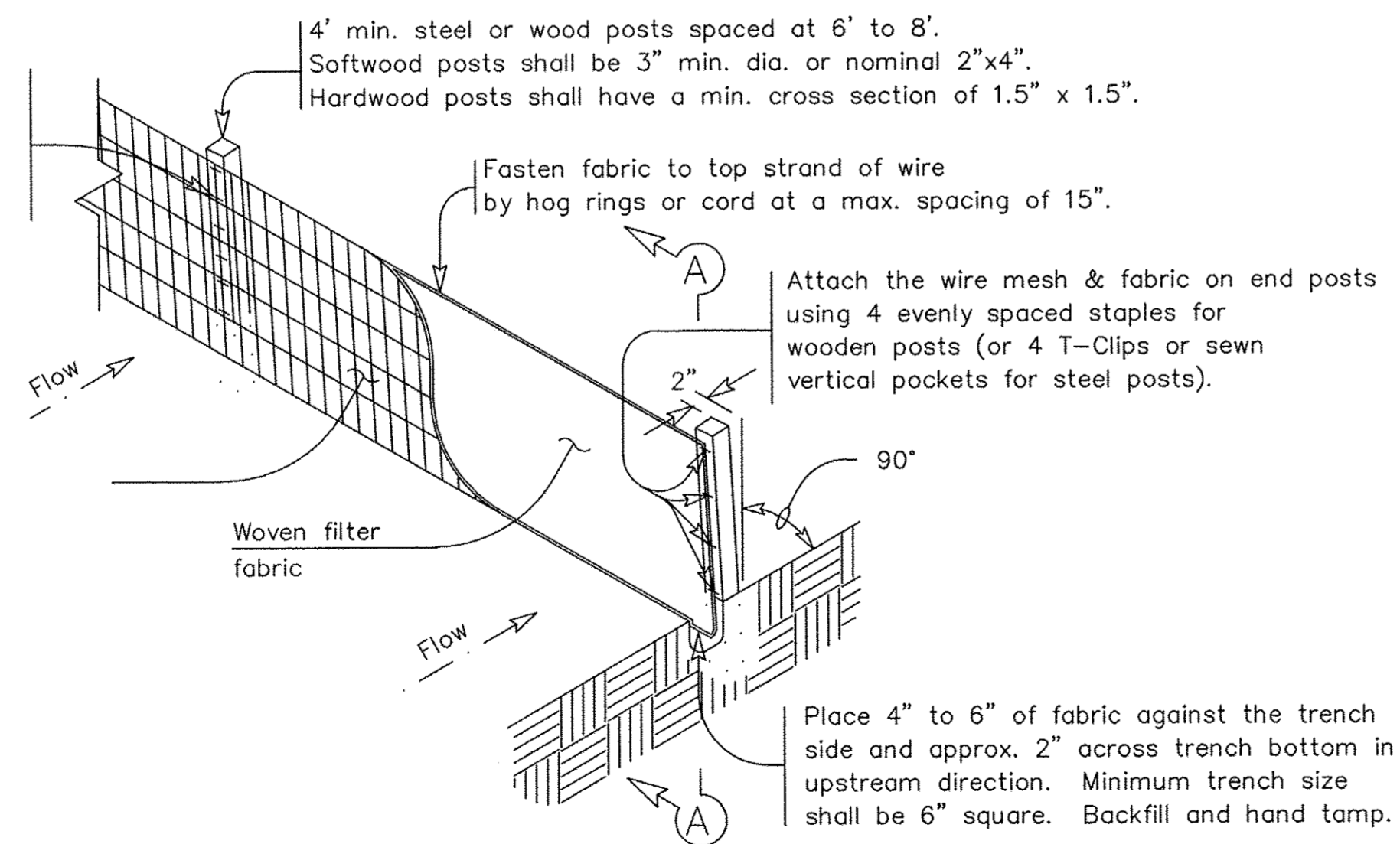
Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

Galv. Hinge joint knot woven mesh (12.5 Ga. Min.) requires a minimum of five horizontal wires spaced at a max. 12 inches apart and all vertical wires spaced at a max. 12 inches apart.



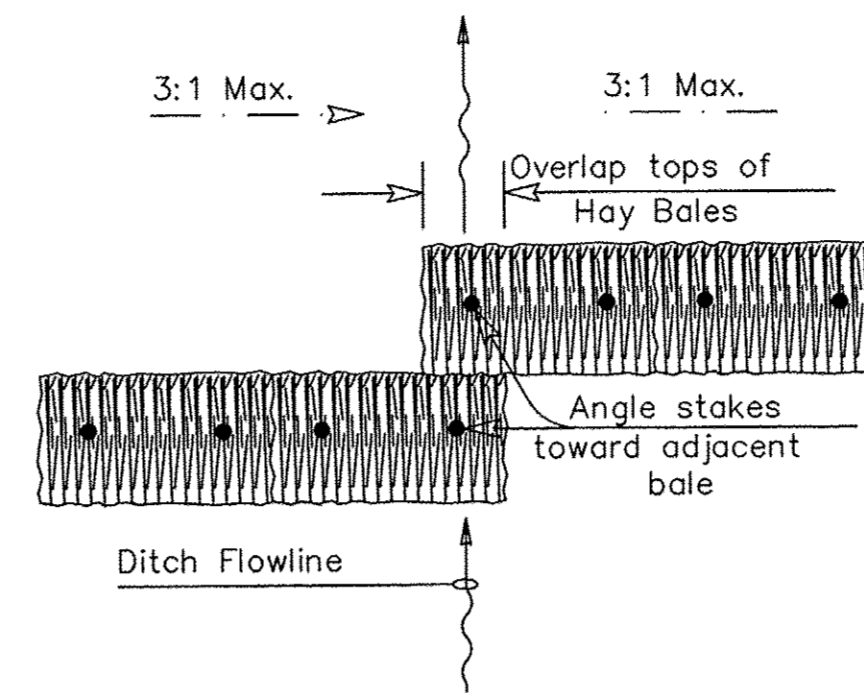
Hinge Joint Knot Woven Mesh (Option)

Connect the ends of successive reinforcement sheets or rolls a min. of 6 times with hog rings.

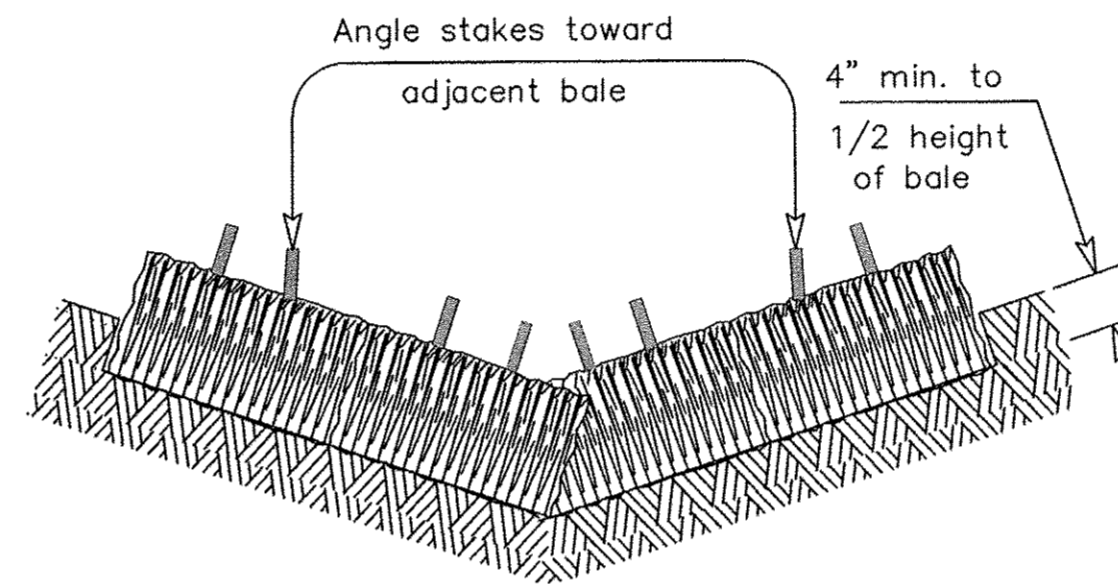


TEMPORARY SEDIMENT CONTROL FENCE

SCF



PLAN VIEW



PROFILE VIEW

PLANS SHEET LEGEND

Baled Hay — BH —

BALED HAY USAGE GUIDELINES

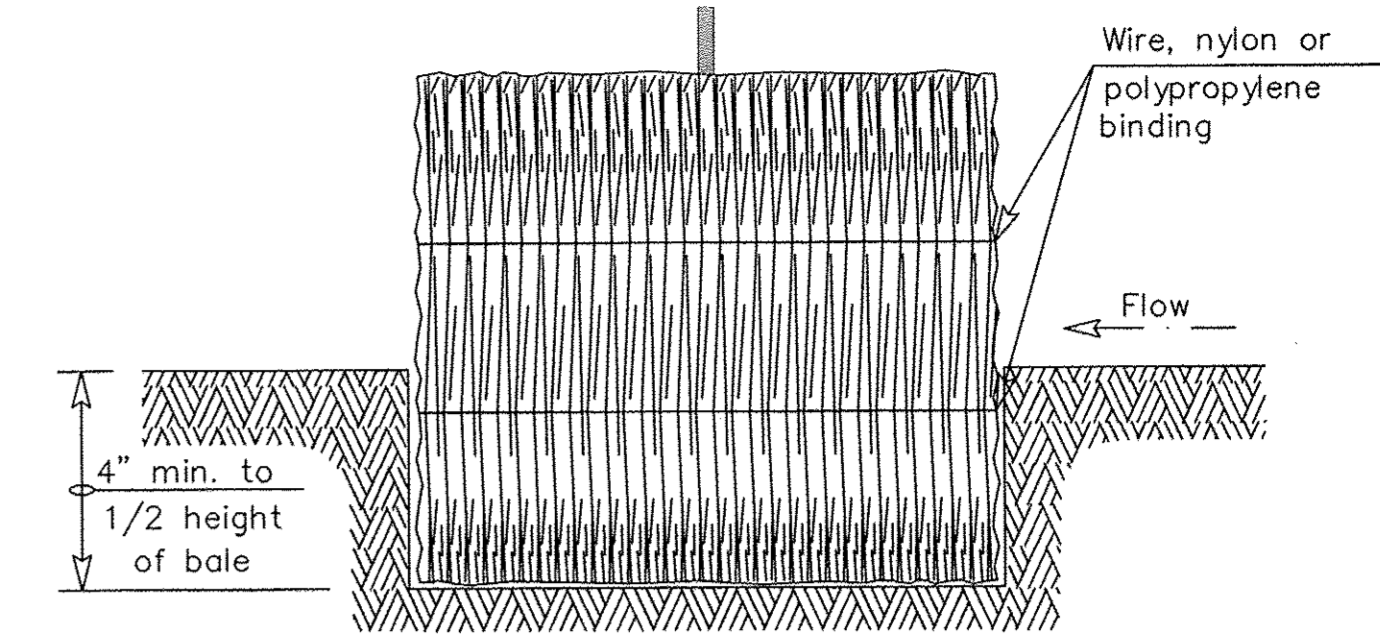
A Baled Hay installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A two year storm frequency may be used to calculate the flow rate to be filtered. The installation should be sized to filter a maximum flow thru rate of 5 GPM/FT² of cross sectional area. Baled hay may be used at the following locations:

1. Where the runoff approaching the baled hay flows over disturbed soil for less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.
2. Where the installation will be required for less than 3 months.
3. Where the contributing drainage area is less than 1/2 acre.

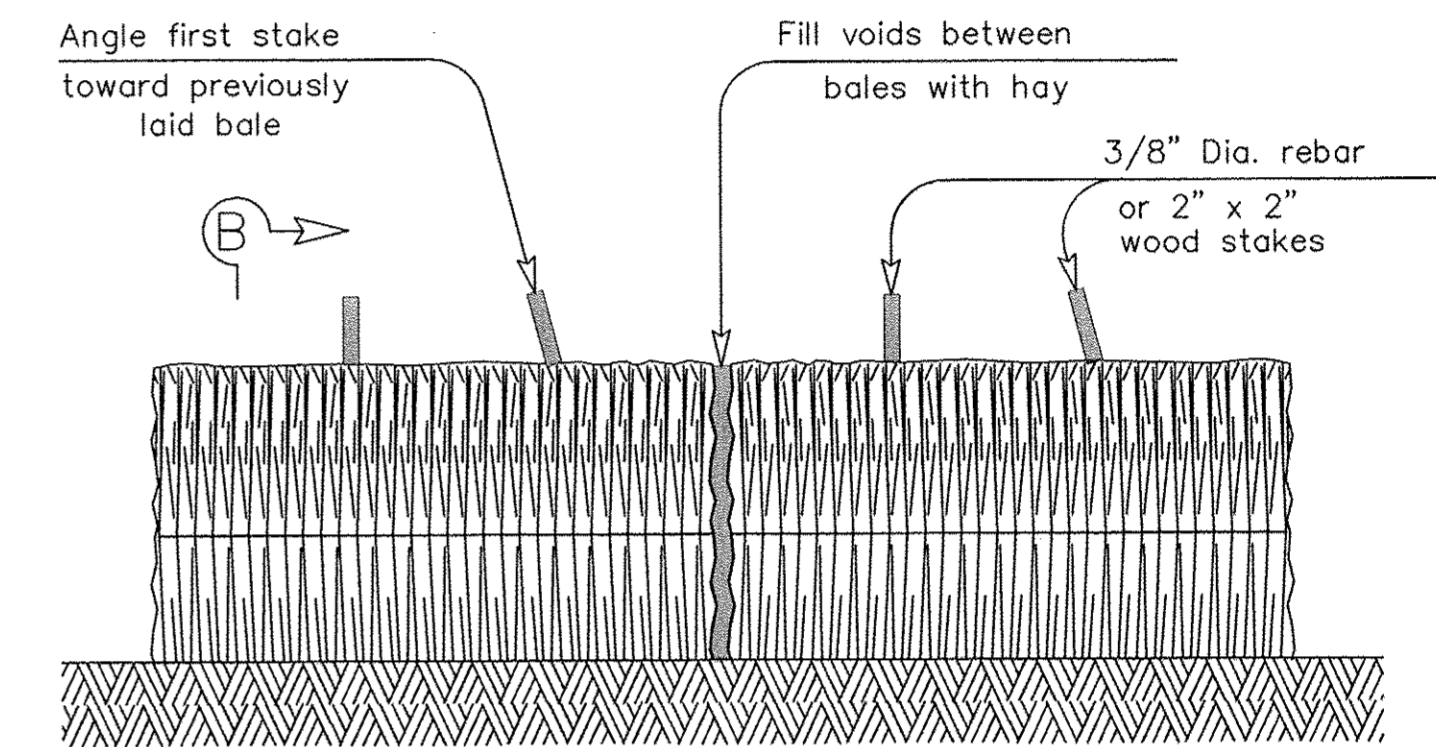
For Baled Hay installations in small ditches, the additional following considerations apply:

1. The ditch sideslopes should be graded as flat as possible to maximize the drainage flowrate thru the hay.
2. The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity is accelerated.



SECTION B-B



BALED HAY FOR EROSION CONTROL

BH

GENERAL NOTES

1. Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 Lbs.
2. Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetative matter.
3. Hay bales shall be embedded in the soil a minimum of 4" and where possible 1/2 the height of the bale.
4. Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
5. Hay bales shall be securely anchored in place with 3/8" Dia. rebar or 2" x 2" wood stakes, driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

TEMPORARY EROSION,
SEDIMENT AND WATER
POLLUTION CONTROL MEASURES
FENCE & BALED HAY
EC(1)-09

FILE: ec109.dgn	DN: TxDOT	CK: AM	DW: TV	CK: BD
©TxDOT June 1993	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY	SHEET NO.	

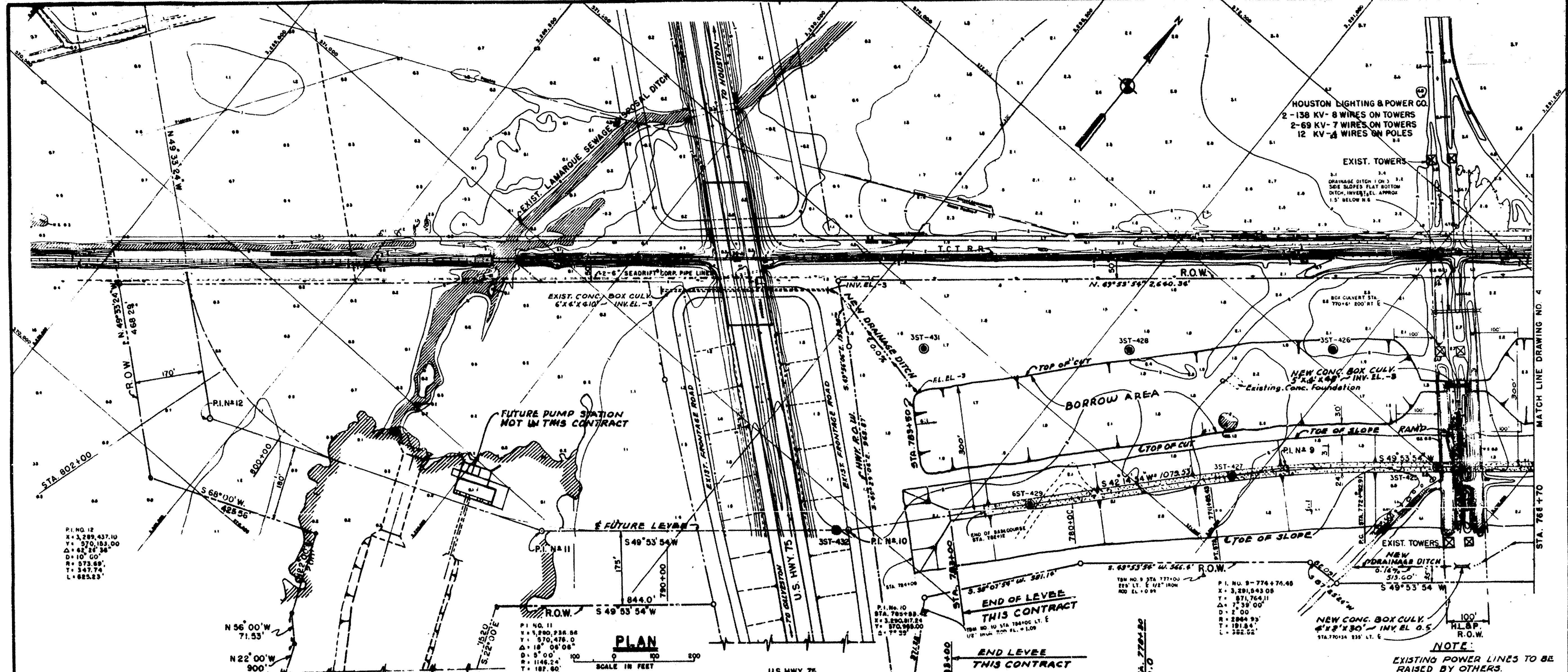
NO.	REVISION	DATE

HUITT-ZOLLARS
Huitt-Zollars, Inc. TBP# Reg. No. F-761
1500 South Dairy Ashford St. Suite 200
Houston, Texas 77077-3858
Ph (281) 496-0058 Fax (281) 496-0220

TEXAS CITY HURRICANE - FLOOD PROTECTION LEVEE REPAIR AT IH-45

SWPPP DETAILS

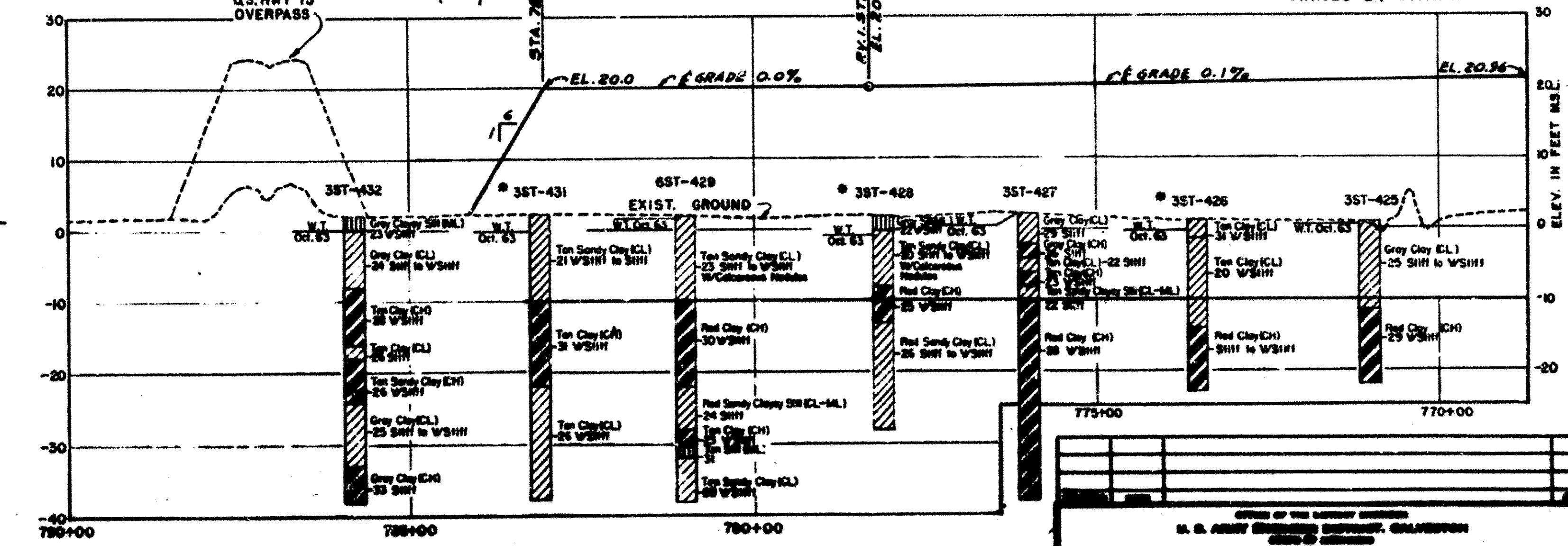
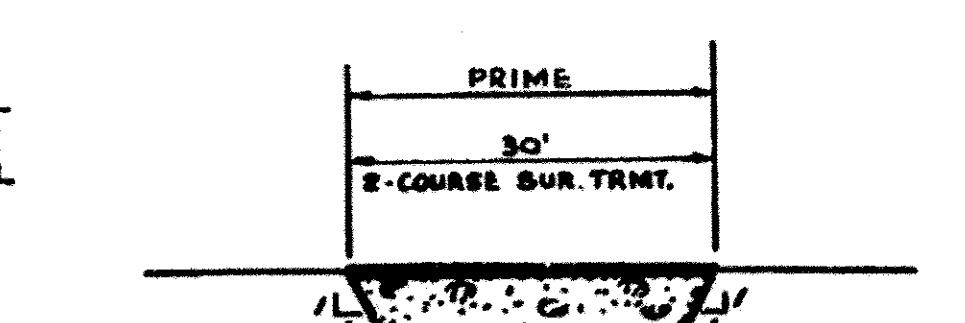
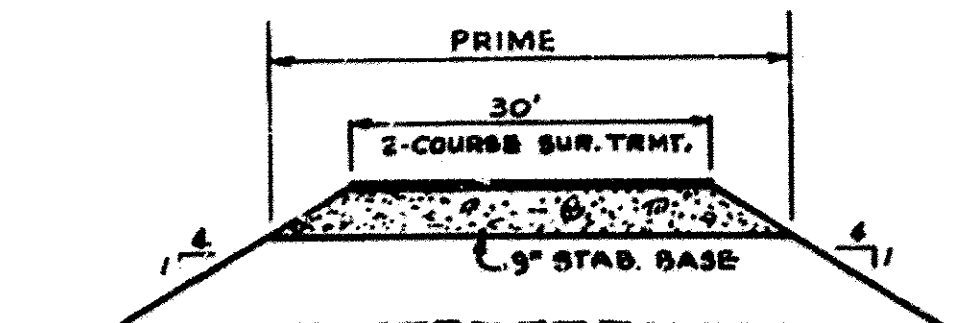
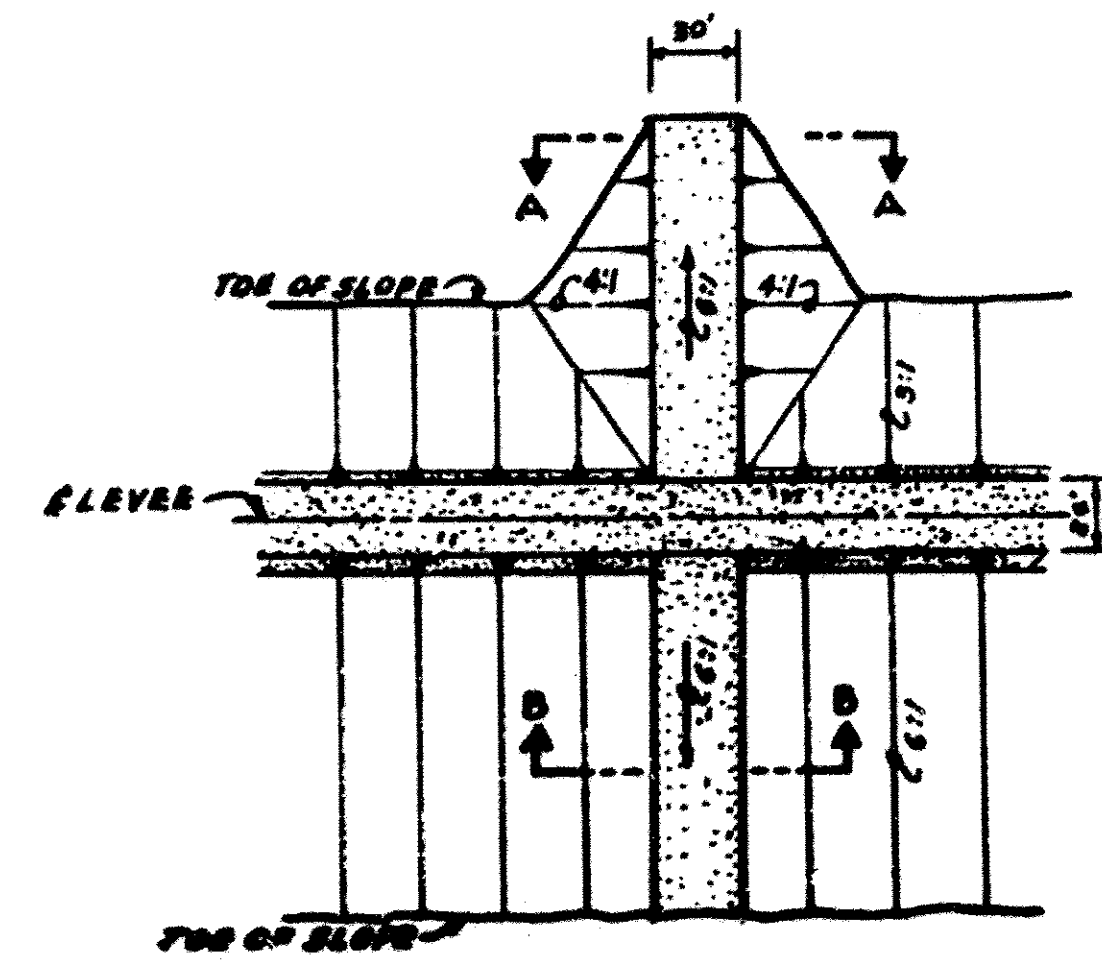
DATE: 10/31/13
DRAWN: T.G.
DESIGNED: M.T.
CHECKED:
PROJ. No.: R301820.01



PI. NO. 12
 X = 3,279,437.10
 Y = 570,183.00
 Δ = 42° 44' 34"
 D = 10' 00"
 R = 573.89'
 T = 347.74'
 L = 682.52'

PI. NO. 11
 X = 3,280,238.86
 Y = 570,438.0
 Δ = 16° 08' 08"
 D = 9' 00"
 R = 1148.24'
 T = 187.80'
 L = 357.14'

PI. NO. 9 - 776 + 76.60
 X = 3,281,943.08
 Y = 571,756.11
 Δ = 73° 00'
 D = 2' 00"
 R = 1884.93'
 T = 181.84'
 L = 382.52'



NOTE:
 EXISTING POWER LINES TO BE RAISED BY OTHERS.

NOTE: See Sup. No. 2 for Bolt Legend

CONTRACT NO.
 DA-41-243-CIVENS
 63-40

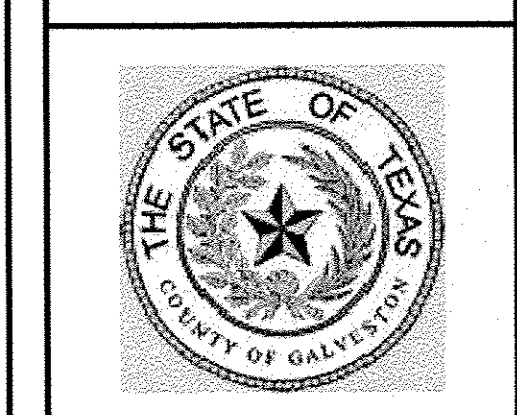
OFFICE OF THE DISTRICT ENGINEER
 U. S. ARMY ENGINEERING DISTRICT, GALVESTON
 DISTRICT OFFICE
 TEXAS CITY, TEXAS

**LEVEE
 PLAN AND PROFILE
 STA. 768+70 TO STA. 770+00**

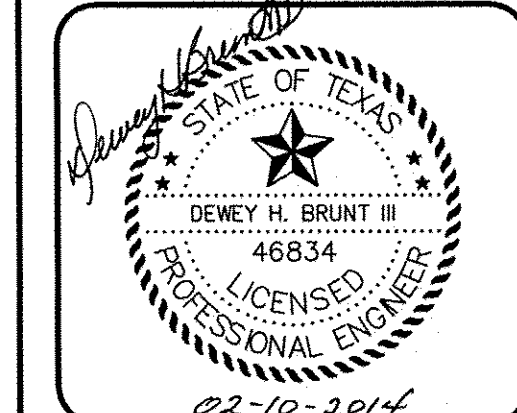
DATE: 10/31/13
 DRAWN: T.G.
 DESIGNED: M.T.
 CHECKED:
 PROJ. No.: R301820.01

NO.	
REVISION	
DATE	

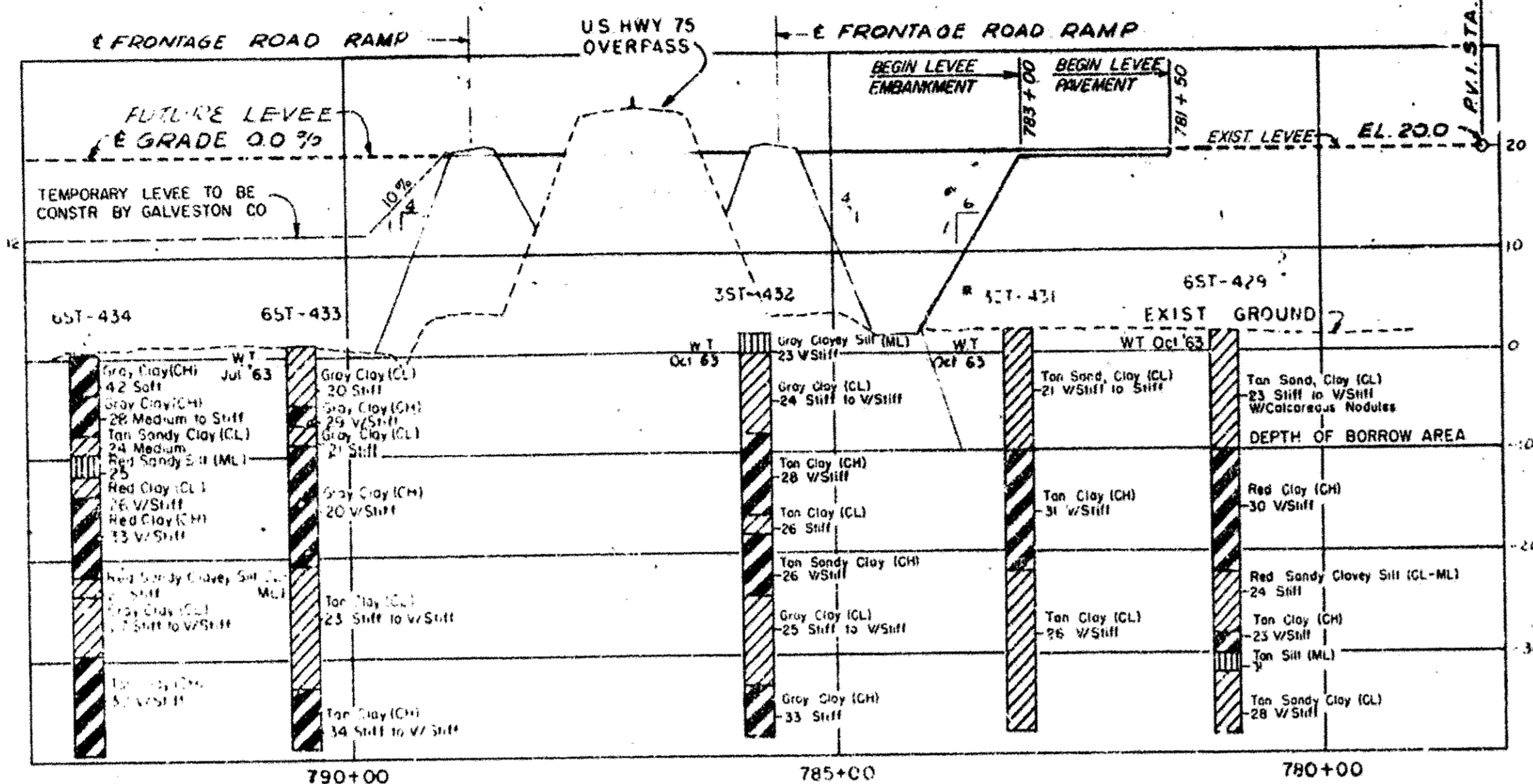
HUETT-ZOLLARS
 Huett-Zollars, Inc. TBPE Reg. No. F-761
 1500 South Dairy Ashford St. Suite 200
 Houston, Texas 77077-3838
 Ph (281) 496-0556 Fax (281) 496-0220



TEXAS CITY HURRICANE - FLOOD PROTECTION LEVEE REPAIR AT IH-45
 REFERENCE DRAWING 1

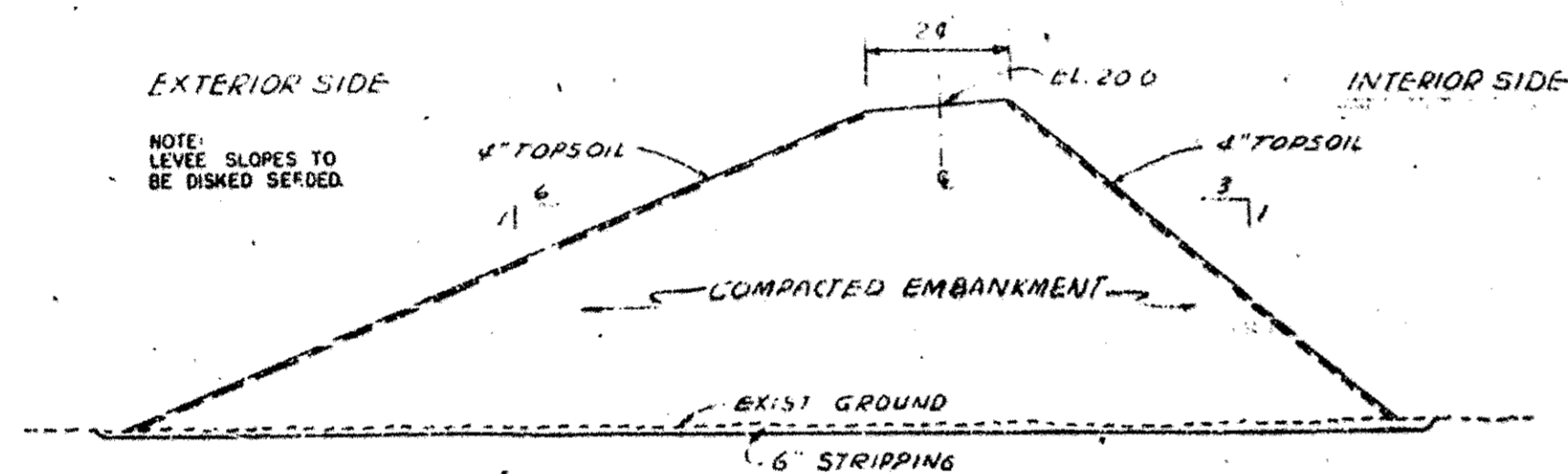


HUETT-ZOLLARS I:\R301820.01 TCHFP Levee Repairs\4 DESIGN PHASE\4-18 Design Development\09 REFERENCE DRAWING.dwg Plotted: Feb 10, 2014 7:04 PM mtehrant



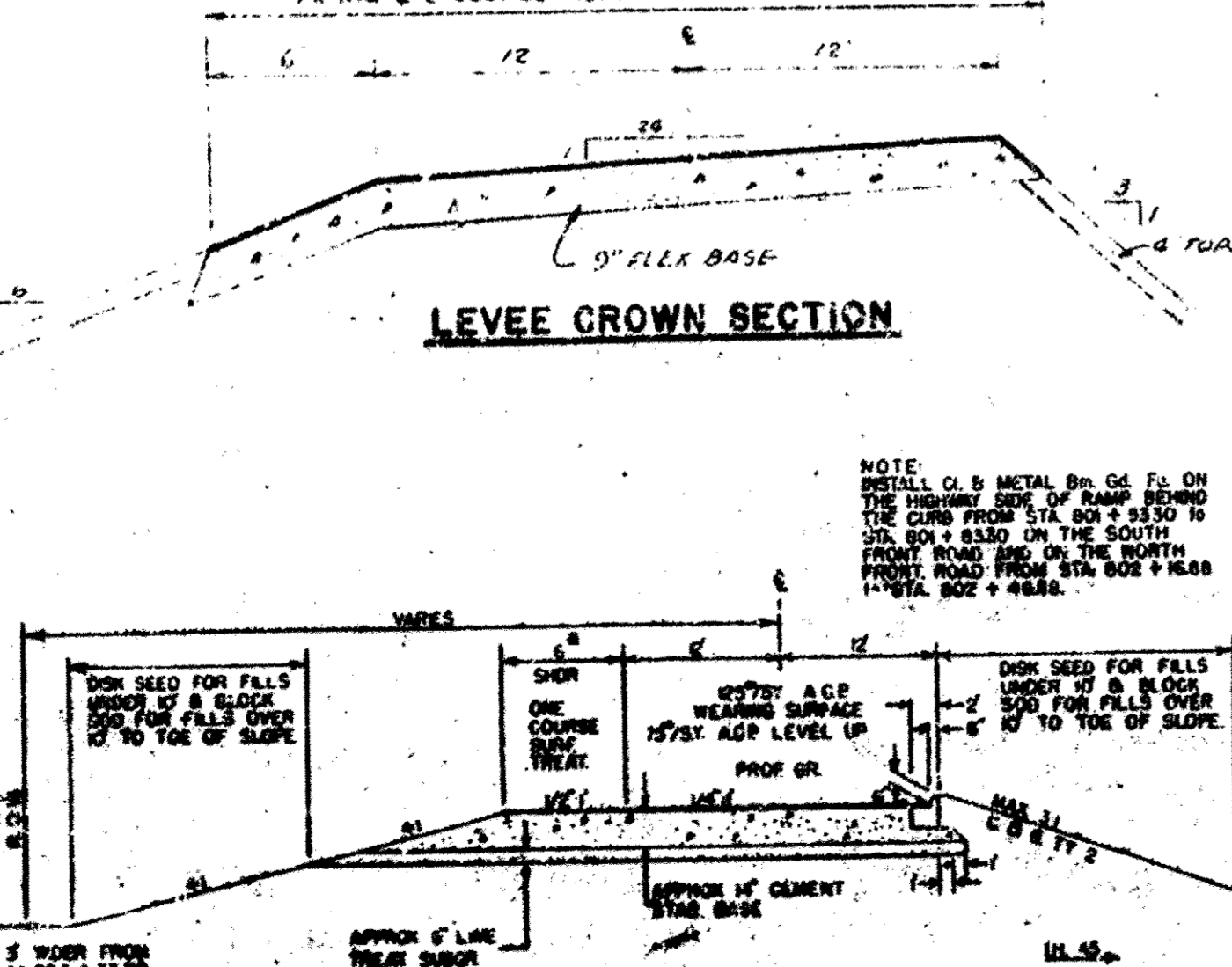
LEVEE PROFILE

NOTE: See Plate No. 2 for Soils Legend.

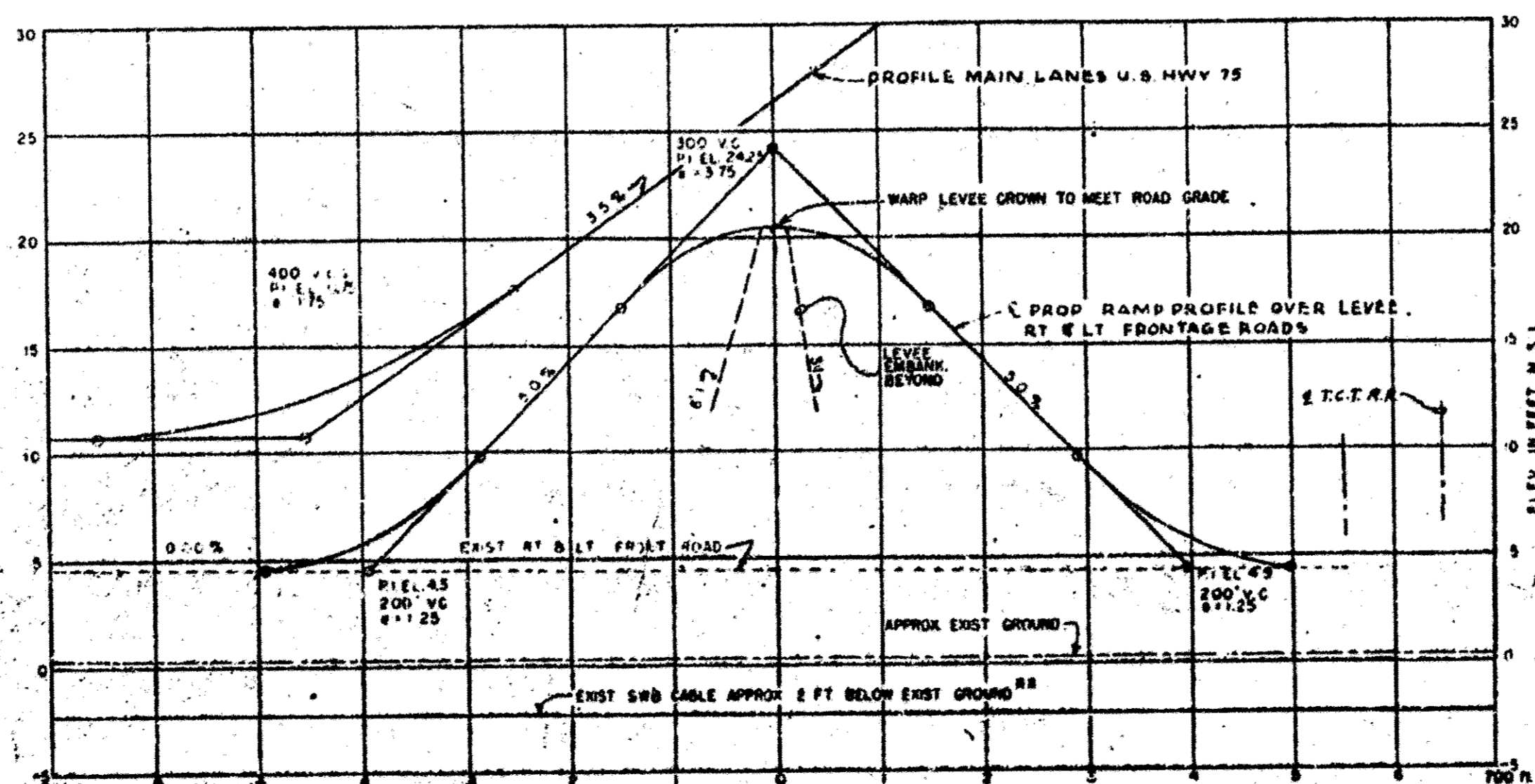


LEVEE SECTION

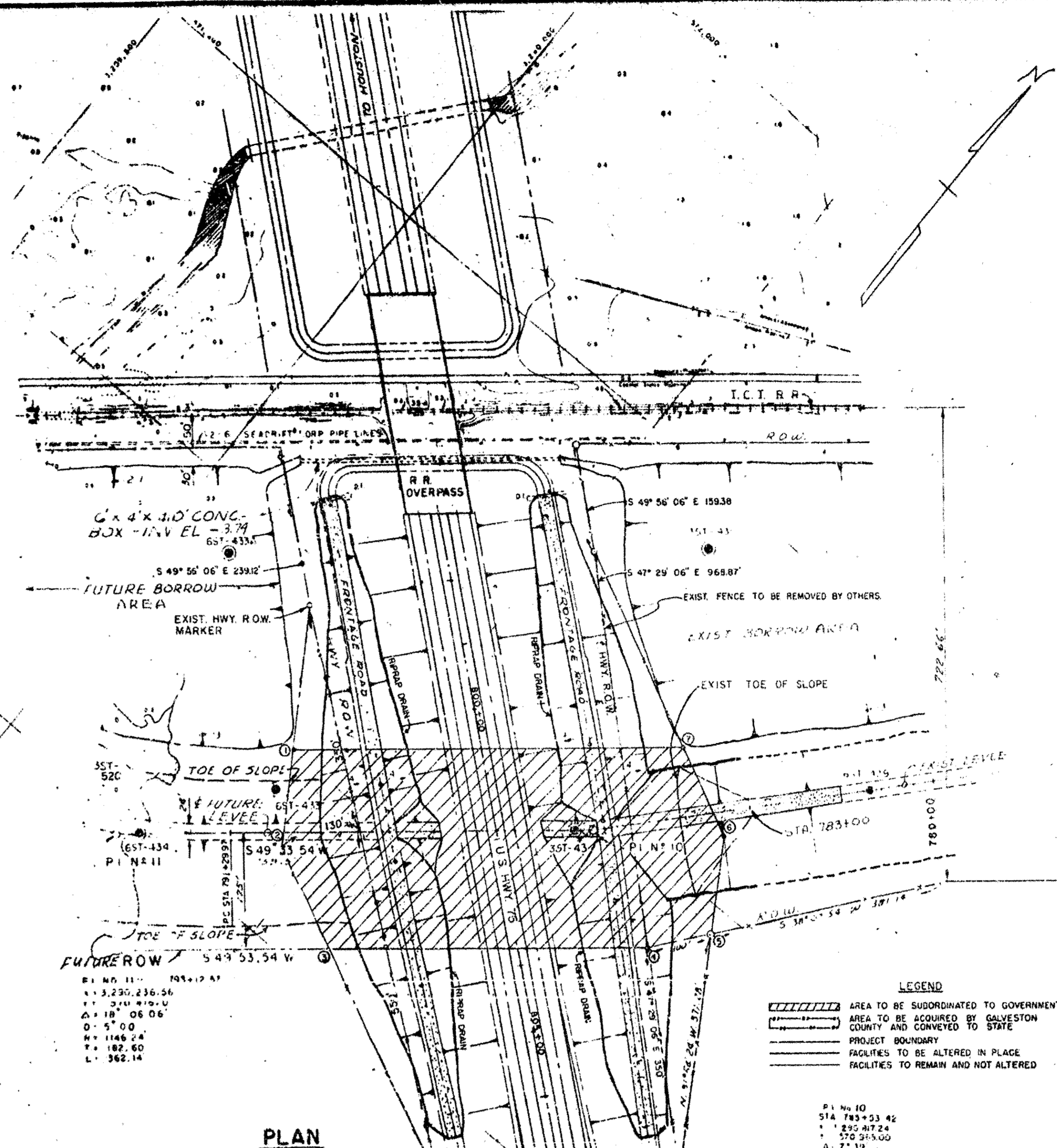
LEVEE CROWN SECTION



TYPICAL SECTION OF FRONTAGE ROAD



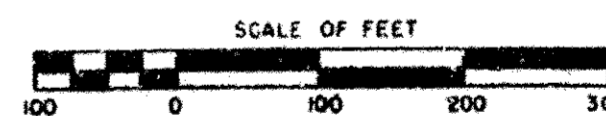
PROFILE-FRONTAGE ROADS



PLAN

LEGEND
 [Symbol] AREA TO BE SUBORDINATED TO GOVERNMENT
 [Symbol] AREA TO BE ACQUIRED BY GALVESTON COUNTY AND CONVEYED TO STATE
 [Symbol] PROJECT BOUNDARY
 [Symbol] FACILITIES TO BE ALTERED IN PLACE
 [Symbol] FACILITIES TO REMAIN AND NOT ALTERED

NOTE
 B.M. ELEV. = 1.73 M.S.L.
 □ ON S.W. HDWL. OF CONC. BOX CULV. AT STA. 795+94

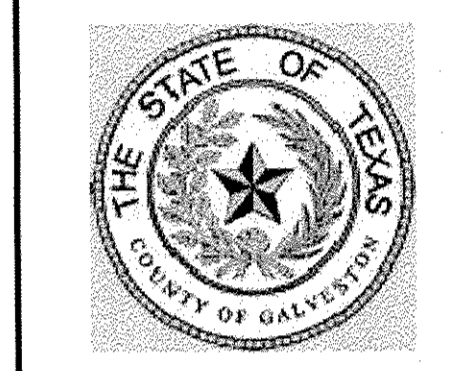


REVISION	DATE
OFFICE OF THE DISTRICT ENGINEER U.S. ARMY ENGINEER DISTRICT, GALVESTON CORPS OF ENGINEERS GALVESTON, TEXAS	
TEXAS CITY, TEXAS HURRICANE - FLOOD PROTECTION RELOCATION TEXAS HIGHWAY DEPARTMENT	
DRAWN BY: C.H.H.	DATE: JUNE 1971
TRACED BY:	APPROVED:
ENGINEERED BY:	DATE:
SUBMITTED BY:	SCALE:
APPROVED:	DATE:
TO ACCOMPANY SUPPLEMENT NO. 2 TO DESIGN MEMORANDUM NO. 7	
DRAWING NUMBER: GALV 308-283	

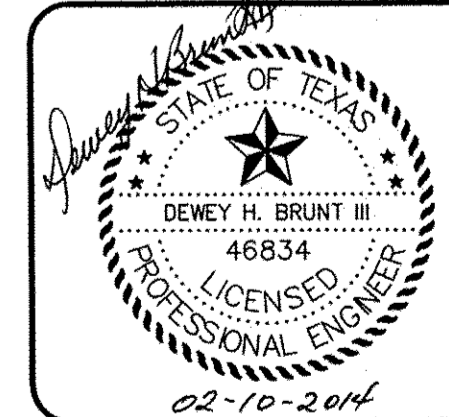
PLATE 7

NO.	REVISION	DATE

HUETT-ZOLLARS
 Huett-Zollars, Inc. T&PE Reg. No. P-761
 1500 South Dairy Ashford St. Suite 200
 Houston, Texas 77077-3858
 Ph (281) 496-0056 Fax (281) 496-0220



TEXAS CITY HURRICANE - FLOOD PROTECTION LEVEE REPAIR AT IH-45



DATE: 10/31/13
 DRAWN: T.G.
 DESIGNED: M.T.
 CHECKED:
 PROJ. No.: R301820.01