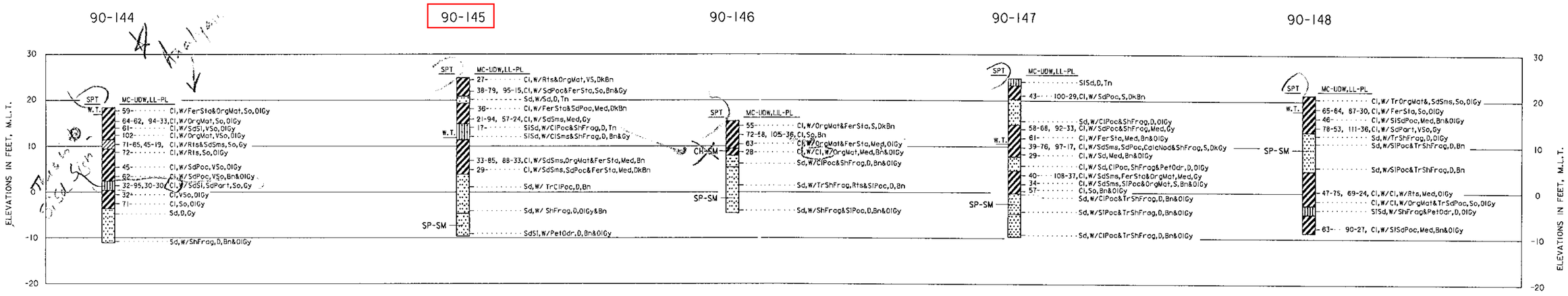

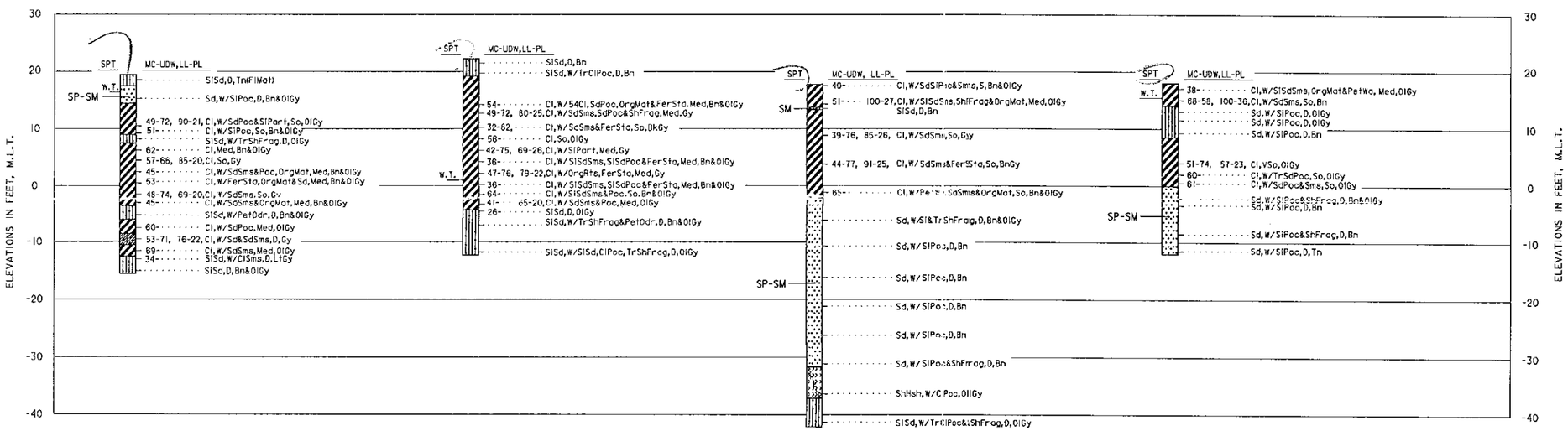

LABORATORY CLASSIFICATION

- SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES.
- SM SILTY SANDS, SAND-SILT MIXTURES.
- ML INORGANIC SILTS AND VERY FINE SANDS, WITH SLIGHT PLASTICITY.
- SC CLAYEY SANDS, SAND-CLAY MIXTURES.
- CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, LEAN CLAYS.
- CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS.
- SH SHELL(S)

VISUAL CLASSIFICATIONS:

Calc Calcareous	Med Medium	Sl Silty
Cl Clay(ey)	Nod Nodules	Slks Slickensides
D Dense	Odr Odor	Sms Seams
Dep Deposit(s)	Org Organic	So Soft
Fer Ferrous	Ol Olive	Tn Tan(nish)
Frag Fragment(s)	Part Particle(s)	Tr Trace(s)
Gy Gray(ish)	Pet Petroleum	V Very
Hsh Hash	Poc Pocket(s)	Wa Waste
L Loose	Rts Root(s)	W.T. Water Table
Ly Layer(s)	S Stiff	W With
Lt Light	Sd Sand(y)	Y Yellow(ish)
Mat Material	Sh Shell(y)	

NOTES:

1. SOILS HAVE BEEN CLASSIFIED IN ACCORDANCE WITH ASTM 2487-93 "CLASSIFICATIONOF SOILS FOR ENGINEERING PURPOSESES (UNIFIED SOILS CLASSIFICATION SYSTEM)". CONSISTENCY OF SOILS SUCH AS SOFT, MEDIUM, HARD, RELATIVE TERMS BASED ON ESTIMATED UNDISTURBED LOOSE, DENSE, ETC., ARE RELATIVE TERMS BASED ON ESTIMATED UNDISTURBED SHEAR STRENGTH OF THE MATERIAL AS DETERMINED BY VISUAL CLASSIFICATION, POCKET PENETROMETER TESTS, AND PENETRATION RESISTANCE DURING SAMPLING.
2. FIGURES TO THE RIGHT OF BORING LOGS ARE WATER CONTENTS IN PERCENT OF THE DRY WEIGHT, DRY DENSITY, LIQUID LIMIT, PLASTIC LIMIT, AND BAR LINEAR SHRINKAGE. (MC-UDW), (LL-PL), ~~(DrDn), (BL)~~.
3. BORINGS WERE DRILLED USING WET ROTARY DRILLING TRICHIQUES AND UNDISTURBED SAMPLES WHERE RECOVERED WITH A 3-INCH DIAMETER THIN WALL SAMPLER WHERE COHESIVE MATERIALS WERE ENCOUNTERED. WHERE COHESIONLESS MATERIALS WERE ENCOUNTERED, DISTURBED SAMPLES WERE TAKEN WITH A SPLIT SPOON SAMPLER DURING PERFORMANCE OF STANDARD PENETRATION TESTING.
4. WATER TABLE LEVELS SHOWN ON BORING LOGS WERE DETERMINED AFTER DRILLING BORINGS BY MEASURING THE TOP OF FLUID LEVELS IN THE BORINGS. INASMUCH AS WET ROTARY DRILLING TECHNIQUES AND DRILLING MUD WERE USED TO DRILL THE HOLES, THE LEVEL OF DRILLING FLUIDS IN THE BORE HOLES MAY NOT HAVE STABLILIZED TO THE LEVEL OF THE ACTUAL WATER TABLE. ADDITIONALLY, WATER TABLES IN THE FIELD ARE LIKELY TO FLUCTUATE, DEPENDING ON WEATHER CONDITIONS. THEREFORE, SOME VARIATION SHOULD BE ANTICIPATED BETWEEN WATER TABLES INDICATED AND WATER TABLES ENCOUNTERED IN THE FIELD.

REVISION	DATE	DESCRIPTION	BY

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

DRAWN BY: * X
DESIGNED BY: * X
CHECKED BY: * X
SUBMITTED BY: *
CHIEF,
APPROVED: *
CHIEF,

HOUSTON-GALVESTON NAVAGATION CHANNELS, TX.
SAN JACINTO PLACEMENT AREA

LOGS OF BORINGS

APPROVED: * CHIEF, ENGINEERING DIVISION
DATE: X
(* AS REQUIRED BY ENGINEER CIRCULAR NO. 1110-1-8152)
SCALE: AS SHOWN
SPEC. DATE:
Prepared under the direction of
Robert B. Gatlin, Col., C.E.,
District Engineer
DRAWING NUMBER X
SHEET X OF X
FSE NO. X

DESIGN FILE:
CREATED BY:
DWG. 17-SEP-1996
AT: 14:29