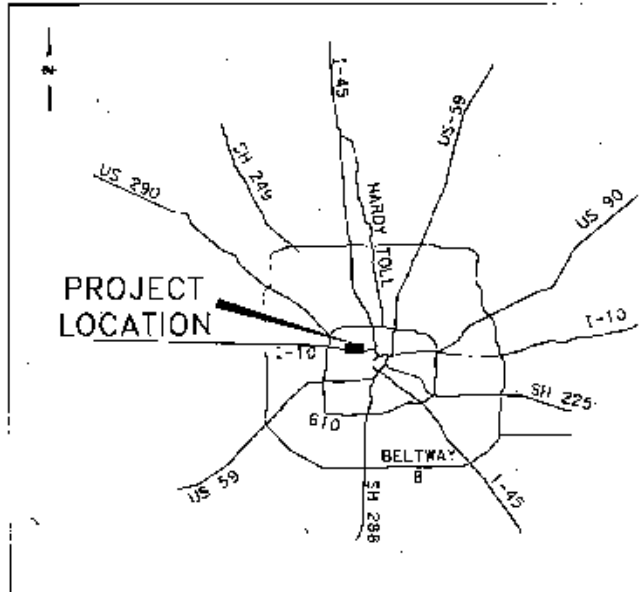


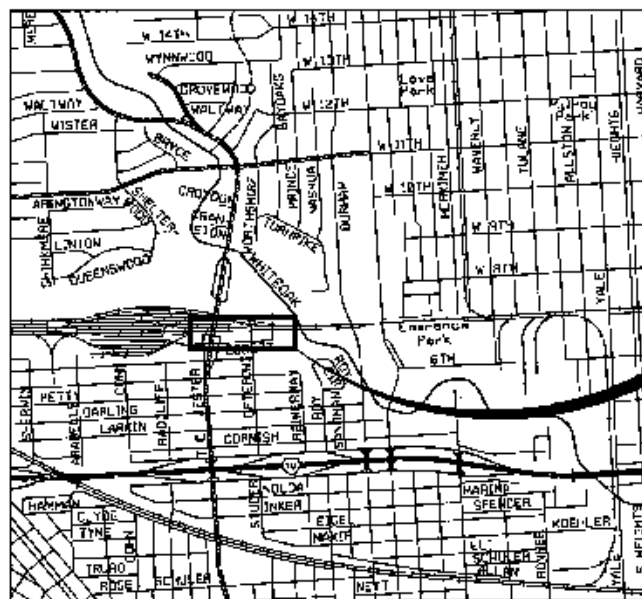
MEMORIAL-HEIGHTS REDEVELOPMENT AUTHORITY/TIRZ NO. 5

WHITE OAK BAYOU TRAIL TO MEMORIAL PARK CONNECTION PROJECT

COH WBS No. N-T05000-0010-7



LOCATION MAP NTS



VICINITY MAP NTS

KEY MAP No. 493A, E, F, G
GIMS TILE No. 5358A, C, D 5357A
ZIP CODE: 77007

TDLR EABPR

TEXAS811 NOTIFICATION SYSTEM
CALL BEFORE YOU DIG
www.texas811.org or
Texas811 or 1-800-344-8377



MAYOR
SYLVESTER TURNER

CONTROLLER
CHRIS B. BROWN

DISTRICT COUNCIL MEMBERS

AMY PECK DISTRICT A	JERRY DAVIS DISTRICT B	ABBIE KAMIN DISTRICT C	CAROLYN EVANS-SHABAZZ DISTRICT D
DAVE MARIN DISTRICT E	TIFFANY D. THOMAS DISTRICT F	GREG TRAVIS DISTRICT G	KARLA CISNEROS DISTRICT H
ROBERT GALLEGOS DISTRICT I	EDWARD POLLARD DISTRICT J	MARTHA CASTEX-TATUM DISTRICT K	

COUNCIL MEMBERS AT-LARGE

MIKE KNOX POSITION 1	DAVID W. ROBINSON POSITION 2
MICHAEL KUBOSH POSITION 3	LETITIA PLUMMER POSITION 4
SALLIE ALCORN POSITION 5	

AUGUST 2021

FINAL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, RESORTING, REPLACING ALL INFRASTRUCTURES AND EXISTING DETECTION CURRENTLY IN PLACE FOR ALL APPROACHES IF DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO MAINTAIN EXISTING COMMUNICATION. THE CONTRACTOR SHALL ALSO MAINTAIN PEDESTRIAN ACCESSIBILITY TO PUSH BUTTONS AND PROPER SIGNAL ALIGNMENT THROUGHOUT TCP STAGES, OTHERWISE BAG PEDESTRIAN SIGNAL HEADS AND INSTALL CROSSWALK CLOSED SIGNS AND PROVIDE PEDESTRIAN DETOUR.

Contractor shall notify the City of Houston, Department of Public Works and Engineering, Office of the City Engineer, 48 hours prior to starting work on this project.
Telephone No.: 832-394-9098



SURVEYED BY: UNITED ENGINEERS, INC.
FB NO.



PE
8/17/21

NOTE: CITY'S SIGNATURE VALID FOR ONE YEAR ONLY, AFTER DATE OF SIGNATURE.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

[Signature]
8/31/21

FOR CITY OF HOUSTON USE ONLY



SHEET NO 1 OF 36 SHEETS

NOTE: BEFORE TREE PROTECTION AND SITE PREPARATION OF ANY TREE REMOVAL, CONTACT DALE TEMPLE WITH THE CITY OF HOUSTON URBAN FORESTRY DEPARTMENT AT (832) 395-8459 OR DALE.TEMPLE@HOUSTONTX.GOV

PER FEMA PANEL No. 48201C0670M DATED JANUARY 6, 2017, THE PROJECT AREA IS PARTIALLY LOCATED WITHIN ZONE AE (100 YEAR FLOODPLAIN) AND THE FLOODWAY. BFE=43.00'

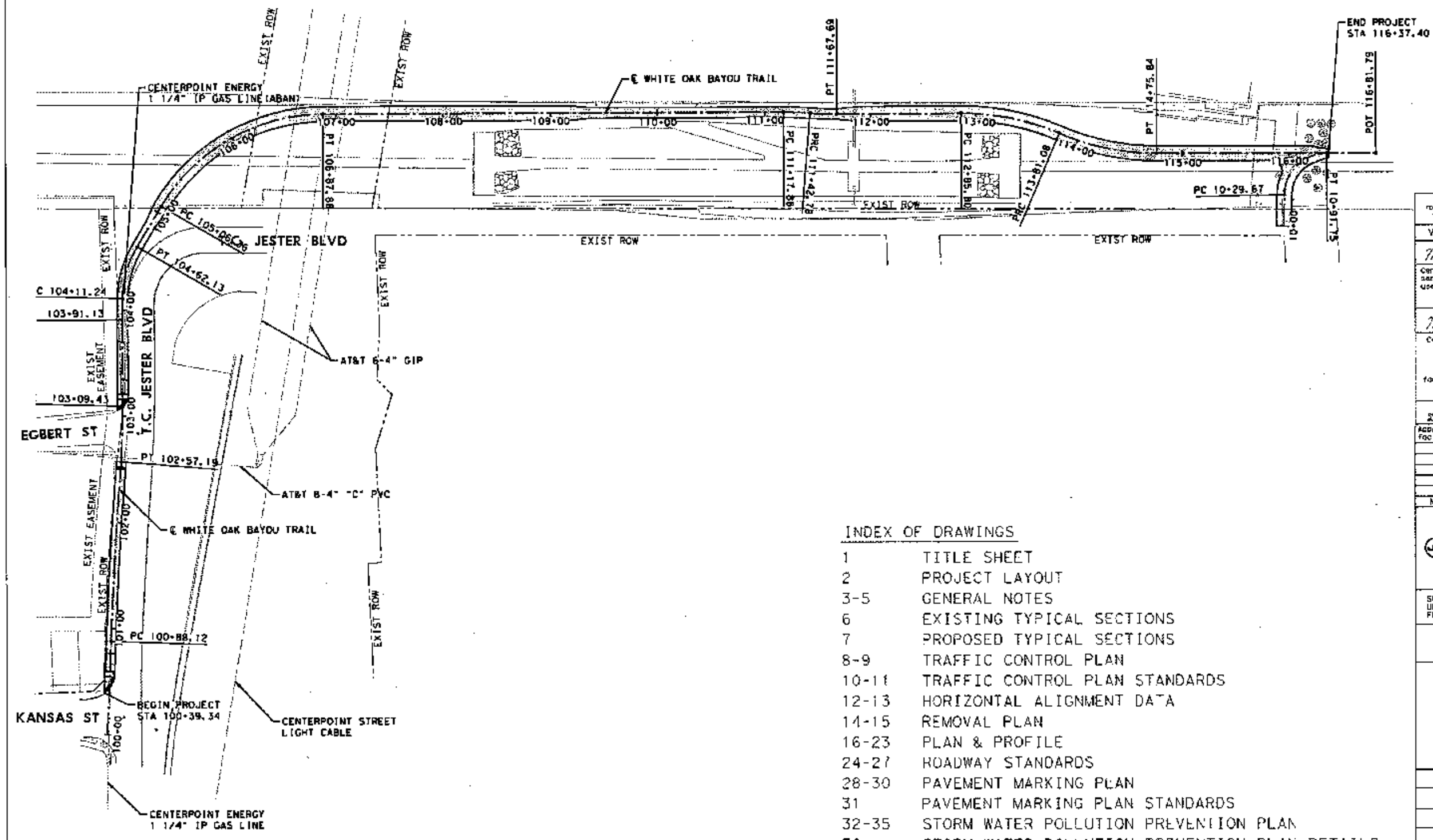
PER FEMA PANEL No. 48201C0690M DATED JANUARY 6, 2017, THE PROJECT AREA IS PARTIALLY LOCATED WITHIN ZONE X (500 YEAR FLOODPLAIN) AND THE FLOODWAY. BFE=36.50'

WHITE OAK BAYOU TRAIL TO MEMORIAL PARK CONNECTION PROJECT

J.C. JONES & CARTER
HOUSTON, TEXAS



LEGEND:
 — EXISTING ROW
 [Hatched Area] PROPOSED PAVEMENT



NOTICE:
 FOR YOUR SAFETY, YOU ARE REQUESTED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDISCOVERED LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES
Mike Brown Date 07-27-21
 CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not be used for conflict verification.
 Signature valid for six months.

Mike Brown Date 07-27-21
 CenterPoint Energy UNDERGROUND Electrical Facilities Verification ONLY.
 (This signature verifies existing underground facilities - not to be used for conflict verification)
 Signature valid for six months.

Paul Jones Date 7/22/21
 Approved for AT&T Texas SMRT underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

JONES CARTER

STATE OF TEXAS
 SETH D. SWARINGEN
 128178
 LICENSED PROFESSIONAL ENGINEER
 8/17/21

SURVEYED BY:
 UNITED ENGINEERS, INC.
 FB NO.

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS
 WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

PROJECT LAYOUT
 SHEET 1 OF 1

WBS NUMBER	N-T05000-0010-7
DRAWING SCALE	HORIZ. 1"=100'
CITY OF HOUSTON PW	HIEN PHAM, P.E.
SHEET NO. 2 OF 36	70825

INDEX OF DRAWINGS

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- 14-15 REMOVAL PLAN
- 16-23 PLAN & PROFILE
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- 36 STORM WATER POLLUTION PREVENTION PLAN DETAILS

GENERAL CONSTRUCTION NOTES

- CONSTRUCT WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING IN ACCORDANCE WITH THE LATEST EDITION OF THE PUBLICATIONS STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTIONS SYSTEMS, WATER LINES, STORM DRAINAGE, STREET PAVING, AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING PUBLISHED BY THE CITY OF HOUSTON, HOUSTON PUBLIC WORKS.
- THE GEOTECHNICAL INVESTIGATION FOR THIS PROJECT WAS CONDUCTED IN ACCORDANCE WITH CHAPTER 11 OF THE LATEST EDITION OF THE PUBLICATION INFRASTRUCTURE DESIGN MANUAL, PUBLISHED BY HOUSTON PUBLIC WORKS. SOILS REPORT WAS PREPARED BY (GEOTECHNICAL ENGINEERING FIRM) REPORT NO. (NO. OF REPORT), DATED (DATE OF REPORT).
- UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4567 OR 800-344-8377 AND LONE STAR NOTIFICATION CENTER AT 800-669-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION. UTILITIES MARKED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS SHALL COMPLY WITH TAC TITLE 16, PART 1, CHAPTER 10, RULE 18.6 AND THE AMERICAN PUBLIC WORKS ADMINISTRATION (APWA) UNIFORM COLOR CODE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER, STORM WATER LINES, AND TRAFFIC CONTROL DEVICES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS, STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING, REFERENCED ABOVE, AT NO ADDITIONAL COST.
- CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER, HOUSTON PUBLIC WORKS @ 832-394-9098 OR VIA FAX AT 832-395-4424 FOR INSPECTION AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.
- CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.
- CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS AND RECORD AS-BUILT CONDITIONS DURING CONSTRUCTION. THESE REDLINE MARKED UP DRAWINGS WILL BE SUBMITTED TO THE DESIGN CONSULTANT WHO WILL MAKE THE CHANGES ON THE ORIGINAL TRACINGS, LABEL EACH SHEET IN THE SET AS "RECORD DRAWINGS", AND RETURN IT TO THE OFFICE OF THE CITY ENGINEER.

ADDITIONAL GENERAL CONSTRUCTION NOTES

- THE CONTRACTOR SHALL RETURN ALL EXISTING FACILITIES TO EXISTING OR BETTER CONDITION UNLESS OTHERWISE NOTED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO FOLLOW CONSTRUCTION DETAILS IF DRAWINGS DEVIATE FROM CITY OF HOUSTON STANDARDS.
- CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY CITY OF HOUSTON, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN CITY OF HOUSTON ROAD RIGHT-OF-WAY.

URBAN FORESTRY NOTES

- CONTRACTOR AND PROJECT INSPECTOR TO MEET WITH PARKS DEPARTMENT / URBAN FORESTRY BEFORE STARTING CONSTRUCTION TO DISCUSS TREE PROTECTION AND REMOVAL. CONTACT DALE TEMPLE AT (832)395-8459 OR AT DALETEMPLE@HOUSTONTX.GOV

UTILITY NOTES

CAUTION: OVERHEAD ELECTRICAL LINES
OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 792, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

ANY ACTIVITY WHERE PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND

OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN TEN (10) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT 713-207-2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6348 OR (713) 207-5769.

CAUTION: UNDERGROUND ELECTRICAL FACILITIES

UNDERGROUND ELECTRICAL FACILITIES EXIST IN THE AREA OF THIS PROJECT. DO NOT BEGIN CONSTRUCTION UNTIL THESE FACILITIES HAVE BEEN LOCATED AND STAKED. TO HAVE THESE UNDERGROUND FACILITIES STAKED, CALL THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567, OR TOLL FREE AT 1-800-869-8344, AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION.

CAUTION: UNDERGROUND GAS FACILITIES

THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005, OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

-WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5463 OR (713) 945-8037 17:00 AM TO 4:30 PM FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.

-WHEN EXCAVATING WITHIN EIGHTEEN (18") OF THE INDICATED LOCATION OF CENTER POINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.

-WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

-FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-3552 OR (713) 207-4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

AT&T TEXAS/SWBT FACILITIES

- THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
- WHEN EXCAVATING WITHIN EIGHTEEN (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
- WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES, THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
- THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
- PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE JR. AT (713) 567-4552 OR E-MAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATING NEAR OUR AT&T TEXAS/SWBT FACILITIES.

ABBREVIATIONS

ASHP	ASPHALT	NTS	NOT TO SCALE
BLDG	BUILDING	OC	ON CENTER
CONC	CONCRETE	OCEW	ON CENTER EACH WAY
CJ	CONTROL JOINT	PGL	PROFILE GRADE LINE
DIMS	DIMENSIONS	PI	POINT OF INTERSECTION
DIP	DUCTILE IRON PIPE	PL MKR	PIPELINE MARKER
D/W OR DW	DRIVEWAY	PP	POWER POLE
DWG	DRAWING	PROP	PROPOSED
EL OR ELEV	ELEVATION	PVT	PRIVATE
EQ	EQUAL	PVMT	PAVEMENT
ER	END OF RADIUS	R	RADIUS
EXIST OR EX	EXISTING	(R)	PER RECORDS
EJ OR EXP JT	EXPANSION JOINT	RE	REFERENCE
FH	FIRE HYDRANT	ROW	RIGHT-OF-WAY
GALV	GALVANIZED	RT	RIGHT
GM	GAS METER	SAN SWR	SANITARY SEWER
GUT	GUTTER	SH	SPRINKLER HEAD
GV	GAS VALVE	SHT	SHEET
HP	HIGH PRESSURE GAS MAIN	SM	SIMILAR
INSTR	INSTRUCTION	SP	SERVICE POLE
IP	IRON PIPE	STA	STATION
IP GM	INTERMEDIATE PRESSURE GAS MAIN	STL	STEEL
LT	LEFT	STM SWR	STORM SEWER
LT STD	LIGHT STANDARD	SV	SPRINKLER VALVE
(M)	PER MH MAPPING	S/W OR SW	SIDEWALK
MAT SCHED	MATERIALS SCHEDULE	TP	TOP OF PAVEMENT
MFR	MANUFACTURER	TYP	TYPICAL
MH	MANHOLE	UG	UNDERGROUND
NGS	NATIONAL GEOLOGICAL SURVEY	UNO OR U.N.O.	UNLESS NOTED OTHERWISE
NIC	NOT IN CONTRACT	WL	WATER LINE
(NIR)	NOT IN RECORDS	WM	WATER METER
		WV	WATER VALVE

NOTICE:
FOR YOUR SAFETY, YOU ARE REMINDER BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.
VERIFICATION OF PRIVATE UTILITY LINES
Mike Brown Date 07-27-21
CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for condition verification.
Signature valid for six months.

Mike Brown Date 07-27-21
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
(This signature verifies existing underground facilities - not to be used for condition verification)
Signature valid for six months.

Robert Yarbrough Date 7/27/21
Approved for AT&T Texas SWBT Underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

JONES BARTER
SURVEYED BY:
UNITED ENGINEERS, INC.
FB NO. _____
8/17/21

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

GENERAL NOTES

WBS NUMBER	N-105000-0010-7
DRAWING SCALE	NTS
CITY OF HOUSTON PM	HIEN PHAM, P.E.
SHEET NO. 3 OF 36	

SHEET 1 OF 3
70825
CITY OF HOUSTON
HOUSTON, TEXAS

STREET & BRIDGE CONSTRUCTION NOTES

1. HOUSTON PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN IS CONSISTENT WITH THE MINIMUM STANDARDS ESTABLISHED IN THE INFRASTRUCTURE DESIGN MANUAL REFERENCED AT: [HTTP://EDOC.S.PUBLICWORKS.HOUSTON.TX.GOV/ENGINEERING-AND-CONSTRUCTION/DESIGN-MANUALS.NTML](http://EDOC.S.PUBLICWORKS.HOUSTON.TX.GOV/ENGINEERING-AND-CONSTRUCTION/DESIGN-MANUALS.NTML)
2. FILL AREAS ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8 IN DEPTH AND EACH COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY PRIOR TO INSTALLATION OF WATER LINE AND FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS.
3. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURBED INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.
4. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.
5. EXISTING PAVEMENTS, CURBS, DRIVEWAYS, AND SIDEWALKS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY OF HOUSTON STANDARDS, WITH LATEST ADDENDA AND AMENDMENTS THERETO.
6. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY UPON COMPLETION OF JOB SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.
7. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO SATISFACTION OF THE OWNING AUTHORITY.
8. EXPOSED 15 OF REINFORCING STEEL AT PROPOSED SAWED JOINT IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS. HORIZONTAL DOWELS SHALL BE #6 BARS 24 LONG 24 C-C DRILLED AND EMBEDDED 8 INTO THE CENTER OF THE EXISTING SLAB WITH PD ROC OR EQUAL.
9. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG AREAS OF EXCAVATION.
10. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAWS CONCERNING EXCAVATION, TRENCHING AND SHORING AS SPECIFIED IN CITY OF HOUSTON ORDINANCE #87-1457.
11. WHEEL CHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF HOUSTON STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.
12. WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE HOUSTON PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN SHOULD BE CONSISTENT WITH THE MINIMUM STANDARD ESTABLISHED IN THE DESIGN MANUAL FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORMS DRAINAGE AND STREET PAVING.
13. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES TO EXISTING WATER, WASTEWATER, STORM SEWER AND TRAFFIC SIGNAL CONDUITS, ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE HOUSTON PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS WITH LATEST ADDENDA AND AMENDMENTS THERETO, AT NO COST TO THE CITY OF HOUSTON.
14. PRIOR TO STREET CONSTRUCTION, THE CONTRACTOR SHALL CONTACT HOUSTON PUBLIC WORKS AT (PHONE) 832-394-9578 AND COMPLY WITH ALL REQUIREMENTS FOR THE ISSUANCE OF NECESSARY PERMITS/WORK ORDERS FOR STREET CONSTRUCTION.

STREET & BRIDGE CONSTRUCTION NOTES

15. DOUBLE REFLECTORIZED BLUE TRAFFIC MARKERS SHALL BE PLACED 6-INCHES OFFSET OF THE CENTERLINE OF ALL FIRE HYDRANT LOCATIONS BY THE PAVING CONTRACTOR. HYDRANTS LOCATED AT INTERSECTIONS SHALL HAVE A BUTTON PLACED ON EACH STREET.
- STORM SEWER CONSTRUCTION NOTES**
1. STORM SEWER SHALL BE REINFORCED CONCRETE PIPE (C-76, CLASS III), AND SHALL BE INSTALLED, BEDDED, AND BACK FILLED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-3, 02317-05, 02317-06, AND 02317-07 (OCT. 2002) AS APPLICABLE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
 2. ALL STORM SEWER CONSTRUCTED IN SIDELOT EASEMENT SHALL BE R.C.P (C-76, CLASSIII) AND SHALL BE EMBEDDED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07 AS APPLICABLE.
 3. ALL SEWER UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENT/C.Y. STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.
 4. ALL TRENCH BACKFILL SHALL BE IN 8' LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS IN EACH LIFT, AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMACTION TEST (ASTM D-698/AAASHTO T99).
 5. CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER CASKET JOINT CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.
 6. ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24 AND LARGER R.C.P. (C-76, CLASSIII).
 7. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES AND INLET LEADS ARE TO BE PLUGGED WITH 8 BRICK WALLS UNLESS OTHERWISE NOTED.
 8. MINIMUM HORIZONTAL CLEARANCE BETWEEN ANY STORM PIPE AND BOX SHALL BE AT LEAST 48-INCHES FROM EXTERIOR OF THE STORM PIPE OR BOX TO THE EXTERIOR OF THE EXISTING OR PROPOSED PUBLIC OR PRIVATE UTILITY AND OTHER APPURTENANCES. MINIMUM VERTICAL CLEARANCE BETWEEN ANY STORM PIPE AND BOX SHALL BE AT LEAST 18-INCHES FROM EXTERIOR OF THE STORM PIPE OR BOX TO THE EXTERIOR OF THE EXISTING OR PROPOSED PUBLIC OR PRIVATE UTILITY AND OTHER APPURTENANCES.
 9. ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION 02086-ADJUSTING MANHOLES, INLETS, AND VALVE BOXES TO GRADE.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF THIS WORK.
 11. ALL DITCHES SHALL BE GRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREA SHALL BE REGRADED, SEEDED, AND FERTILIZED.
 12. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.

SWPPP CONSTRUCTION NOTES

1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.

SWPPP CONSTRUCTION NOTES

2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEEPED BACK INTO THE EXCAVATED AREA.
3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FROM THE EXCAVATED AREA.
4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
 - DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
 - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
 - STRUCTURAL CONTROL MEASURES.
 - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION OR BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.

ABBREVIATIONS

ASHP	ASPHALT BUILDING	NTS	NOT TO SCALE
BLDG	CONCRETE	OC	ON CENTER
CONC	CONTROL JOINT	OCEN	ON CENTER EACH WAY
CJ	DIMENSIONS	PGL	PROFILE GRADE LINE
DIMS	DUCTILE IRON PIPE	PI	POINT OF INTERSECTION
DIP	DRIVEWAY	PL MKR	PIPELINE MARKER
D/W OR DW	DRAWING	PP	POWER POLE
DWG	ELEVATION	PROP	PROPOSED
EL OR ELEV	EQUAL	PVT	PRIVATE
EQ	END OF RADIUS	PVMT	PAVEMENT
ER	EXISTING	R	RADIUS
EXST OR EX	EXPANSION JOINT	(R)	PER RECORDS
EJ OR EXP JT	FIRE HYDRANT	RE	REFERENCE
FH	GALVANIZED	ROW	RIGHT-OF-WAY
GALV	GAS METER	RT	RIGHT
GM	GUTTER	SAN SWR	SANITARY SEWER
GUT	GAS VALVE	SH	SHEET
GV	HIGH PRESSURE GAS MAIN	SHT	SIMILAR
HP	INSTRUCTION	SM	SERVICE POLE
INSTR	IRON PIPE	SP	STATION
IP	INTERMEDIATE PRESSURE GAS MAIN	STA	STEEL
IP GM	LEFT	STL	STORM SEWER
LT	LIGHT STANDARD	STM SWR	SPRINKLER VALVE
LT STD	PER MH MAPPING	SV	SIDEWALK
(M)	MATERIALS SCHEDULE	S/W OR SW	TOP OF PAVEMENT
MAT SCHED	MANUFACTURER	TP	TYPICAL
MFR	MANHOLE	TYP	TYPICAL
MH	NATIONAL GEOLOGICAL SURVEY	UG	UNDERGROUND
NGS	NOT IN CONTRACT	UND OR U.N.O.	UNLESS NOTED OTHERWISE
NIC	NOT IN RECORDS	WL	WATER LINE
(NIR)		WM	WATER METER
		WY	WATER VALVE

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Mike Brown Date 07-27-21
CenterPoint Energy natural gas utilities shown. 15006 service lines are not shown. This signature not to be used for conflict verification.
Signature valid for six months.

Mike Brown Date 07-27-21
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
This signature verifies existing underground facilities - not to be used for conflict verification!
Signature valid for six months.

N/A Date _____
Approved for AT&T Texas SWPT underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

JONES BARTER
SURVEYED BY:
UNITED ENGINEERS, INC.
FB NO. _____

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

GENERAL NOTES

SHEET 2 OF 3

WBS NUMBER: N-105000-0010-7
DRAWING SCALE: NS
CITY OF HOUSTON PM: HIEN PHAM, P.E.
SHEET NO. 4 OF 36

70825

PAVING CONSTRUCTION NOTES

- PAVEMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING CITY OF HOUSTON DOCUMENTS: "STANDARD CONSTRUCTION SPECIFICATIONS" AND "STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATERLINES, STORM DRAINAGE AND STREET PAVING".
- THE CONTRACTOR(S) SHALL NOTIFY CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORK AND ENGINEERING, OFFICE OF THE CITY ENGINEER, 48 HOURS PRIOR TO START OF WORK ON THIS PROJECT. TEL. NO. 713-837-7000, FAX NO. 832-395-4424.
- ALL RETURNS SHALL HAVE A 25-FOOT RADIUS AT FACE OF CURB UNLESS OTHERWISE NOTED.
- GUIDELINES SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE OBSERVED.
- ALL INTERSECTIONS SHALL BE CONSTRUCTED WITH WHEELCHAIR RAMPS IN ACCORDANCE WITH THE GOVERNOR'S OFFICE OF TRAFFIC SAFETY MEMORANDUM DATED MAY 6, 1976. (HIGHWAY SAFETY ACT - 1973 SECTION 208). SEE CITY OF HOUSTON ACCESSIBLE COMPLIANT CURB RAMPS AND LANDINGS DETAIL. ALL WHEELCHAIR RAMPS SHALL COMPLY WITH CURRENT "THE AMERICANS WITH DISABILITIES ACT" (A.D.A.) SPECIFICATIONS. RAMPS TO BE COLORED WITH A COLOR TO BE DETERMINED BY THE ENGINEER CONFORMING TO ASTM-C979.
- ALL FILL IN EXISTING OR PROPOSED CITY OF HOUSTON RIGHT-OF-WAY, INCLUDING BACKDRESSING BEHIND THE CURB, SHALL BE PLACED IN MAXIMUM LOOSE LIFTS OF EIGHT INCHES (8") OR LESS AND COMPACTED TO 95% OF MAXIMUM DENSITY AT -3% TO +5% MOISTURE CONTENT AS DETERMINED BY AASHTO TEST METHOD T-99.
- REFER TO THE LATEST CITY OF HOUSTON PAVEMENT MARKING DETAILS.
- SIDEWALK BULLNOSES CONSTRUCTED IN ESPLANADES SHALL BE SIX INCHES (6") THICK WITH SURFACE COLORED BLACK, WHEN CURBS ARE TEN FEET (10') AND LESS IN WIDTH FROM FACE-TO-FACE OF CURBS. FOR CONCRETE ROADWAYS, SURFACE SHALL BE COLORED BLACK. FOR ASPHALT ROADWAYS, SURFACE SHALL BE UNCOLORED.

TRAFFIC CONSTRUCTION NOTES

CONTRACTOR OR OWNER SHALL SUBMIT TRAFFIC CONTROL PLANS WITH THE MOBILITY PERMIT APPLICATION. THE PLANS SHALL BE DRAWN TO SCALE AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS.

THE GENERAL NOTES THAT SHALL BE INCLUDED ON THE TRAFFIC CONTROL PLAN CAN BE FOUND IN CHAPTER 15 (15.12 TRAFFIC CONTROL PLAN) OF THE CITY OF HOUSTON'S (CITY) INFRASTRUCTURE DESIGN MANUAL (IDM). BELOW ARE SEVERAL KEY NOTES FROM THE IDM TO BE AWARE OF:

- THE CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) LATEST EDITION WITH REVISIONS DURING THE ENTIRE CONSTRUCTION PERIOD.
- NO WORK SHALL BE PERFORMED IN RESIDENTIAL AREAS FROM 7:00PM TO 7:00AM.
- CONTRACTOR SHALL MAINTAIN APPROVED NUMBER OF LANES OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION WORKING HOURS. TRAFFIC CONTROL PLANS SHALL INCLUDE ONE-WAY AND/OR DETOUR PLANS. CONTRACTOR SHALL MAINTAIN ADA COMPLIANT PEDESTRIAN ACCESS TO BUS STOPS AND ADEQUATE BUS ACCESS TO THE BUS STOP.
- CONTRACTOR SHALL COVER OPEN PAVEMENT EXCAVATIONS FOR MINOR UTILITY WORK WITH ANCHORED STEEL PLATES DURING NON-WORKING HOURS, OPEN LANES FOR NORMAL TRAFFIC FLOW WHEN FEASIBLE.
- CONTRACTOR SHALL SECURE LANE/SIDEWALK/BICYCLE FACILITY CLOSURE PERMITS FROM TRANSPORTATION & DRAINAGE OPERATIONS (MOBILITY PERMIT SECTION AT WWW.CIMS.HOUSTONTX.GOV) BEFORE IMPLEMENTING THE TRAFFIC CONTROL PLAN. THE APPLICATION MUST BE SUBMITTED AT LEAST TEN BUSINESS DAYS PRIOR TO THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN AND/OR BEGINNING CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS, CONSTRUCTION SEQUENCING, AND CONSTRUCTION SCHEDULE WITH THE APPLICATION.
- CONTRACTOR SHALL HAVE APPROVED TRAFFIC CONTROL PLAN AND PERMIT AT THE JOB SITE FOR INSPECTION AT ALL TIMES.

TRAFFIC CONSTRUCTION NOTES

- ACCESS TO DRIVEWAYS ADJACENT TO THE CONSTRUCTION WORK ZONE SHALL BE MAINTAINED AT ALL TIMES AS MUCH AS POSSIBLE. ADDITIONAL CONES AND/OR DELINEATORS MAY BE REQUIRED TO DELINEATE THE DRIVEWAY ACCESS ROUTE THROUGH THE CONSTRUCTION WORK ZONE. A MINIMUM OF ONE TRAVEL LANE SHALL BE MAINTAINED ACROSS THE DRIVEWAY, UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE CITY OF HOUSTON.
- ADDITIONAL OFF DUTY POLICE OFFICERS/FLAGGERS MAY BE REQUESTED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED AT THE DIRECTION OF THE CITY EVEN IF THEY ARE NOT SPECIFICALLY IDENTIFIED ON THE PROJECT PLANS.

METRO GENERAL NOTES

- CONTRACTOR SHALL NOTIFY METRO AT 713-615-7119 TWO WEEKS PRIOR TO MOBILIZING TO THE PROJECT SITE TO COORDINATE IMPACTS TO BUS OPERATIONS DURING CONSTRUCTION.
- CONTRACTOR SHALL CONTACT FACILITIES MAINTENANCE AT 713-615-6195 OR FACILITIESMAINTENANCE@IDEMETRO.ORG 14 WORKING DAYS PRIOR TO PLANNED IMPACTS TO EXISTING METRO BUS STOPS TO SCHEDULE THE REMOVAL OF ANY BENCHES, WASTE RECEPTACLES, AND SIGNS AS REQUIRED.
- CONTRACTOR SHALL NOTIFY METRO AT LEAST 72 HOURS PRIOR TO PLACEMENT OF CONCRETE SUBSLAB FOR PAVERS AT BUS STOP AND ALLOW METRO TO INSPECT THE SLAB FORM FOUNDATION PRIOR TO PLACEMENT OF CONCRETE.
- CONTRACTOR SHALL COORDINATE WITH METRO, AS NECESSARY, FOR INSTALLATION OF VARIOUS FEATURES AT FINISHED BUS STOP LOCATIONS.

ABBREVIATIONS

ASHP	ASPHALT	NIS	NOT TO SCALE
BLDG	BUILDING	OC	ON CENTER
CONC	CONCRETE	OCEW	ON CENTER EACH WAY
CJ	CONTROL JOINT	PGL	PROFILE GRADE LINE
DIMS	DIMENSIONS	PI	POINT OF INTERSECTION
DIP	DUCTILE IRON PIPE	PL MKR	PIPELINE MARKER
D/W OR DW	DRIVEWAY	PP	POWER POLE
DWG	DRAWING	PROP	PROPOSED
EL OR ELEV	ELEVATION	PVT	PRIVATE
EQ	EQUAL	PVMT	PAVEMENT
ER	END OF RADIUS	R	RADIUS
EXIST OR EX	EXISTING	(R)	PER RECORDS
EJ OR EXP JT	EXPANSION JOINT	RE	REFERENCE
FH	FIRE HYDRANT	ROW	RIGHT-OF-WAY
GALV	GALVANIZED	RT	RIGHT
GM	GAS METER	SAN SWR	SANITARY SEWER
GUT	GUTTER	SH	SPRINKLER VALVE
GV	GAS VALVE	SHT	SHEET
HP	HIGH PRESSURE GAS MAIN	SIM	SIMILAR
INSTR	INSTRUCTION	SP	SERVICE POLE
IP	IRON PIPE	STA	STATION
IP GM	INTERMEDIATE PRESSURE GAS MAIN	STL	STEEL
LT	LEFT	STM SWR	STORM SEWER
LT STD	LIGHT STANDARD	SV	SPRINKLER VALVE
(M)	PER MH MAPPING	S/W OR SW	SIDEWALK
MAT SCHED	MATERIALS SCHEDULE	TP	TOP OF PAVEMENT
MFR	MANUFACTURER	TYP	TYPICAL
MH	MAN-HOLE	UG	UNDERGROUND
NCS	NATIONAL GEOLOGICAL SURVEY	UND OR U.N.O.	UNLESS NOTED OTHERWISE
NIC	NOT IN CONTRACT	WL	WATER LINE
(NIR)	NOT IN RECORDS	WM	WATER METER
		WV	WATER VALVE

NOTICE
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MAPPED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.


VERIFICATION OF PRIVATE UTILITY LINES

Mike Brown Date: 07-27-21
CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature may be used for conflict verification.
Signature valid for six months.

Mike Brown Date: 07-27-21
CenterPoint Energy/UNDERGROUND Electrical Facilities verification ONLY.
(This signature verifies existing underground facilities - not to be used for conflict verification)
Signature valid for six months.


N/A Date: _____
Approved for AT&T Texas SBT underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.



JONES & BARTLETT

SURVEYED BY:
UNITED ENGINEERS, INC.
FE NO.



CITY OF HOUSTON
HOUSTON PUBLIC WORKS

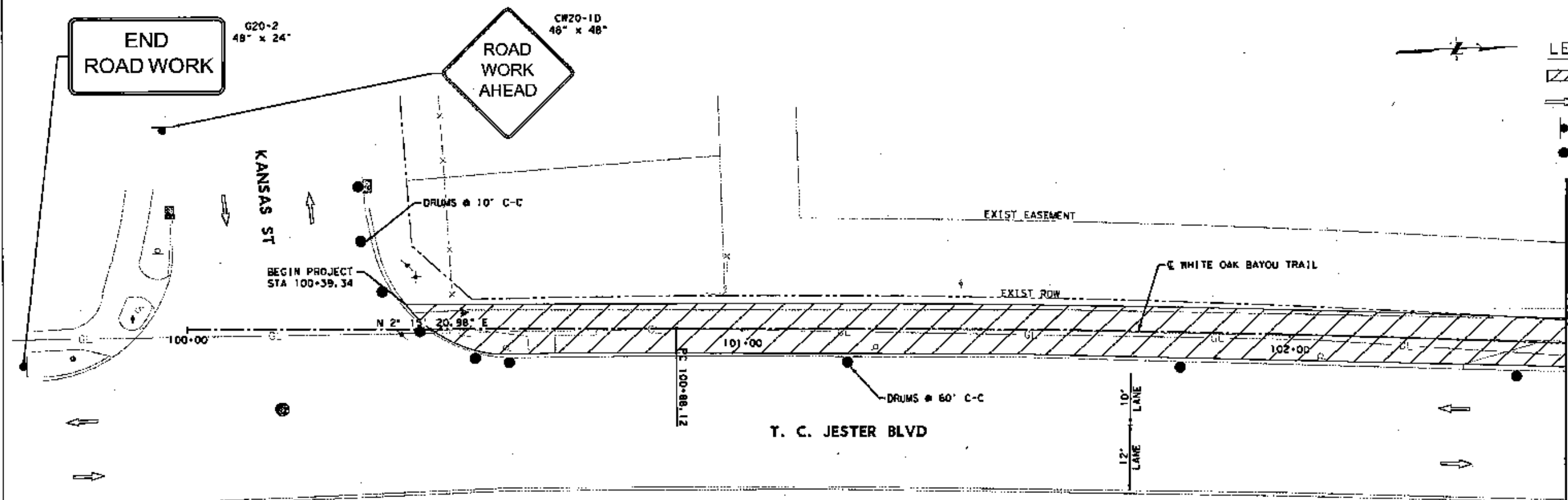
WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

GENERAL NOTES

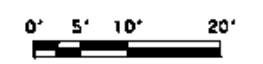
SHEET 3 OF 3

WBS NUMBER: N-705000-0010-
DRAWING SCAL: MS
CITY OF HOUSTON
HIEN PHAM, P.E.
SHEET NO. 3 OF 36

70825



- LEGEND:**
- PROPOSED CONSTRUCTION
 - EXIST TRAFFIC FLOW
 - SIGN
 - CHANNELIZING DEVICE



- NOTES:**
1. CONTRACTOR TO FOLLOW CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING TCP TYPICAL 3-WAY INTERSECTION STANDARD DETAIL FOR FLAGGER OPERATION.
 2. CONTRACTOR IS TO RESTRICT PARKING DURING CONSTRUCTION.

NO.	DATE	REVISIONS	APP.

JONES BARTER

SURVEYED BY:
UNITED ENGINEERS, INC.
FB NO.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

TRAFFIC CONTROL PLAN
BEGIN TO STA 100+00

SHEET 4 OF 2

NBS NUMBER
N-T05000-0010

DRAWING SCALE
HORIZ. 1"=20'

CITY OF HOUSTON
MIEN PHAM, P.E.

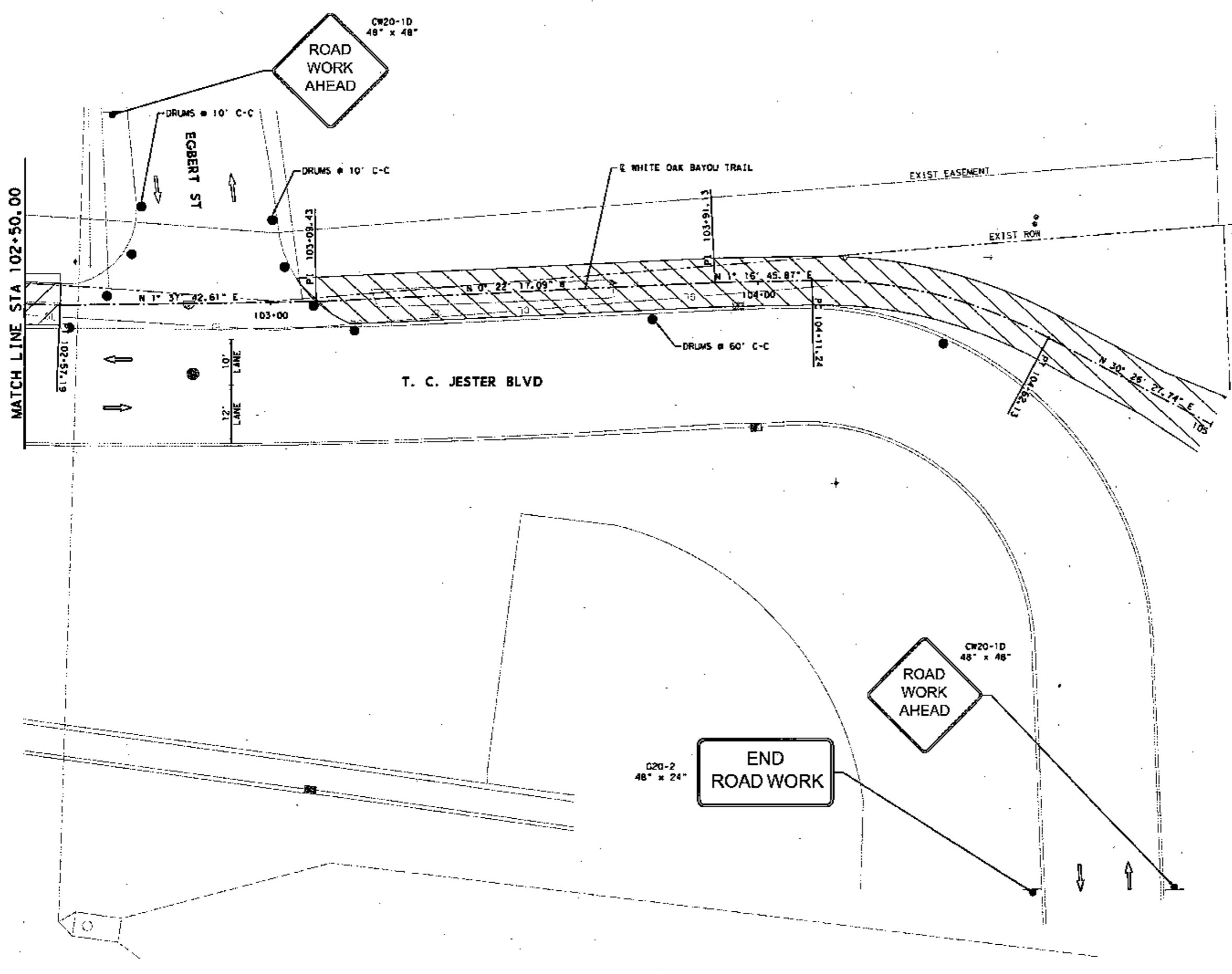
SHEET NO. B OF 30

70825

END ROAD WORK
G20-2
48" x 24"

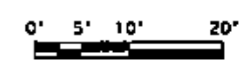
ROAD WORK AHEAD
CW20-1D
48" x 48"

ROAD WORK AHEAD
CW20-1D
48" x 48"



- LEGEND:**
- PROPOSED CONSTRUCTION
 - EXIST TRAFFIC FLOW
 - SIGN
 - CHANNELIZING DEVICE

- NOTES:**
1. CONTRACTOR TO FOLLOW CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING TCP TYPICAL 3-WAY INTERSECTION STANDARD DETAIL FOR FLAGGER OPERATION.
 2. CONTRACTOR IS TO RESTRICT PARKING DURING CONSTRUCTION.



NO.	DATE	REVISIONS	APP.

JONES BARNER

SURVEYED BY:
UNITED ENGINEERS, INC.
FB NO.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

TRAFFIC CONTROL PLAN
STA 102+50 TO 104+00

SHEET 2 OF 2

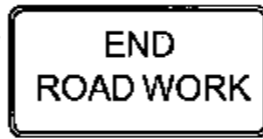
WBS NUMBER
N-T05000-0010-7

DRAWING SCALE
HORIZ. 1"=20'

CITY OF HOUSTON PW
HIEN PHAM, P.E.

SHEET NO. 9 OF 36

70825



GENERAL NOTES

1. All dimensions are shown in feet and inches. Round up to the next inch.
2. All work shall be done in accordance with the City of Houston Standard Specifications for Public Works.
3. All work shall be done in accordance with the City of Houston Standard Specifications for Public Works.
4. All work shall be done in accordance with the City of Houston Standard Specifications for Public Works.
5. All work shall be done in accordance with the City of Houston Standard Specifications for Public Works.
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9. All work shall be done in accordance with the City of Houston Standard Specifications for Public Works.
10. All work shall be done in accordance with the City of Houston Standard Specifications for Public Works.

SPACING FOR CHANNELIZING DEVICES

1. All channelizing devices shall be spaced in accordance with the City of Houston Standard Specifications for Public Works.
2. All channelizing devices shall be spaced in accordance with the City of Houston Standard Specifications for Public Works.
3. All channelizing devices shall be spaced in accordance with the City of Houston Standard Specifications for Public Works.
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8. All channelizing devices shall be spaced in accordance with the City of Houston Standard Specifications for Public Works.
9. All channelizing devices shall be spaced in accordance with the City of Houston Standard Specifications for Public Works.
10. All channelizing devices shall be spaced in accordance with the City of Houston Standard Specifications for Public Works.

CHANNELIZATION AND BARRICADES

TYPICAL CONDITIONS, TRAIL LANE AND BAYOU

NO.	DESCRIPTION	QUANTITY	UNIT	AMOUNT
1
2
3
4
5
6
7
8
9
10

CITY OF HOUSTON
HOUSTON PUBLIC WORKS
TOP HOLES
CHANNELIZING DEVICES
AND BARRICADES
PHASE 1
NOV 12 2010

LEGEND

- 1. SIGN
- 2. BARRICADE
- 3. SPACING CHANNELIZING DEVICES
- 4. TRAFFIC SIGN
- 5. CHANNELIZING DEVICES

CITY OF HOUSTON
HOUSTON PUBLIC WORKS
TRAFFIC CONTROL, LAYOUT
NOV 12 2010

LEGEND

- 1. SIGN
- 2. BARRICADE
- 3. SPACING CHANNELIZING DEVICES
- 4. TRAFFIC SIGN
- 5. CHANNELIZING DEVICES

CITY OF HOUSTON
HOUSTON PUBLIC WORKS
TOP HOLES
CHANNELIZING DEVICES
AND BARRICADES
PHASE 1 & 2
NOV 12 2010

LEGEND

- 1. SIGN
- 2. BARRICADE
- 3. SPACING CHANNELIZING DEVICES
- 4. TRAFFIC SIGN
- 5. CHANNELIZING DEVICES

CITY OF HOUSTON
HOUSTON PUBLIC WORKS
TOP HOLES
CHANNELIZING DEVICES
AND BARRICADES
NOV 12 2010

NO.	DATE	REVISIONS	APP.

JONES & CARTER
128178
PROFESSIONAL ENGINEER
8/17/21

SURVEYED BY:
UNITED ENGINEERS, INC.
P.B. NO.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS
WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT
TCP STANDARDS

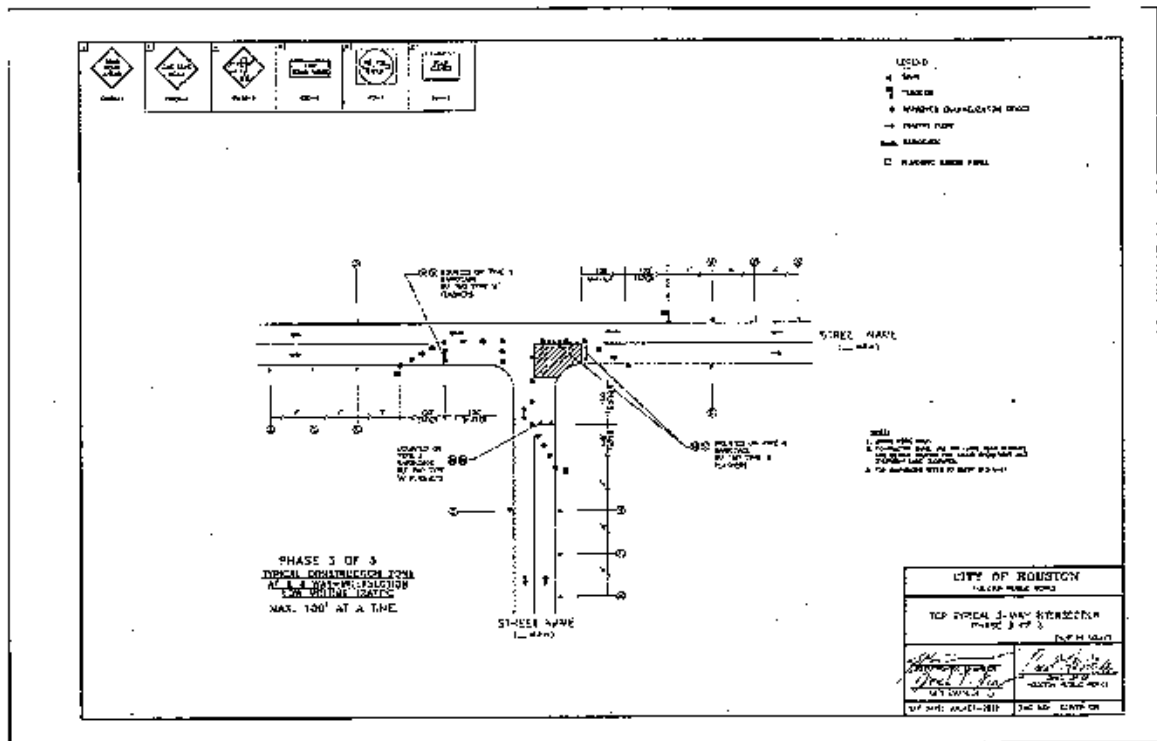
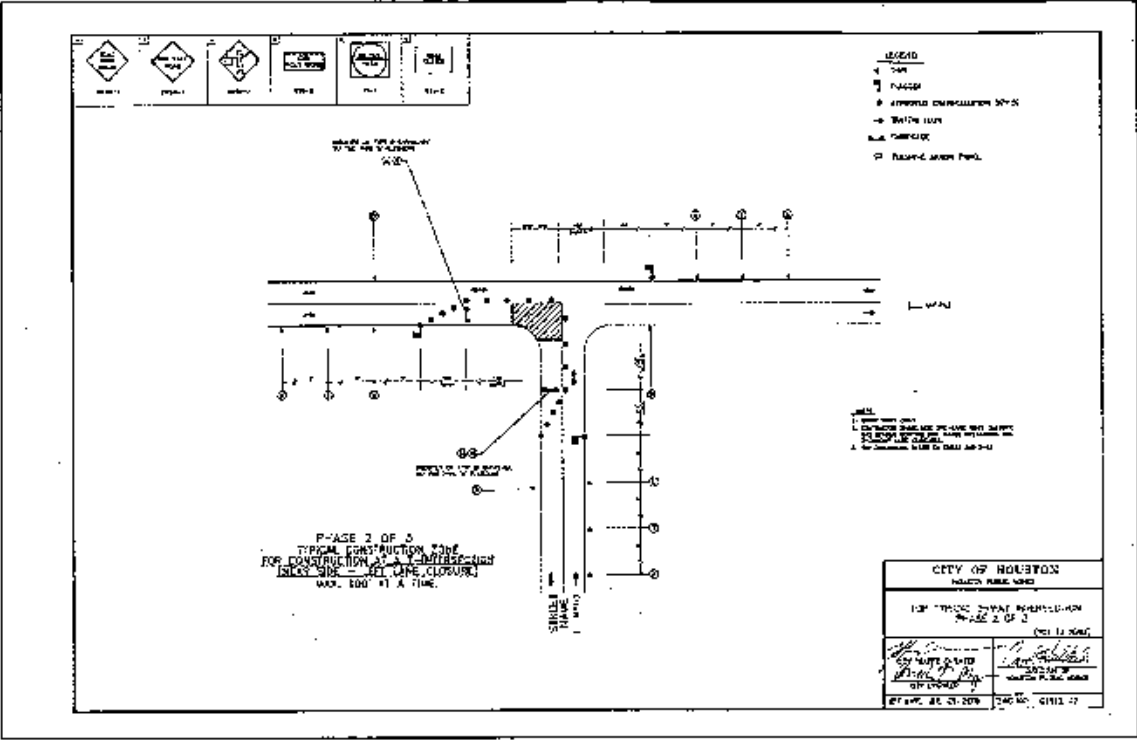
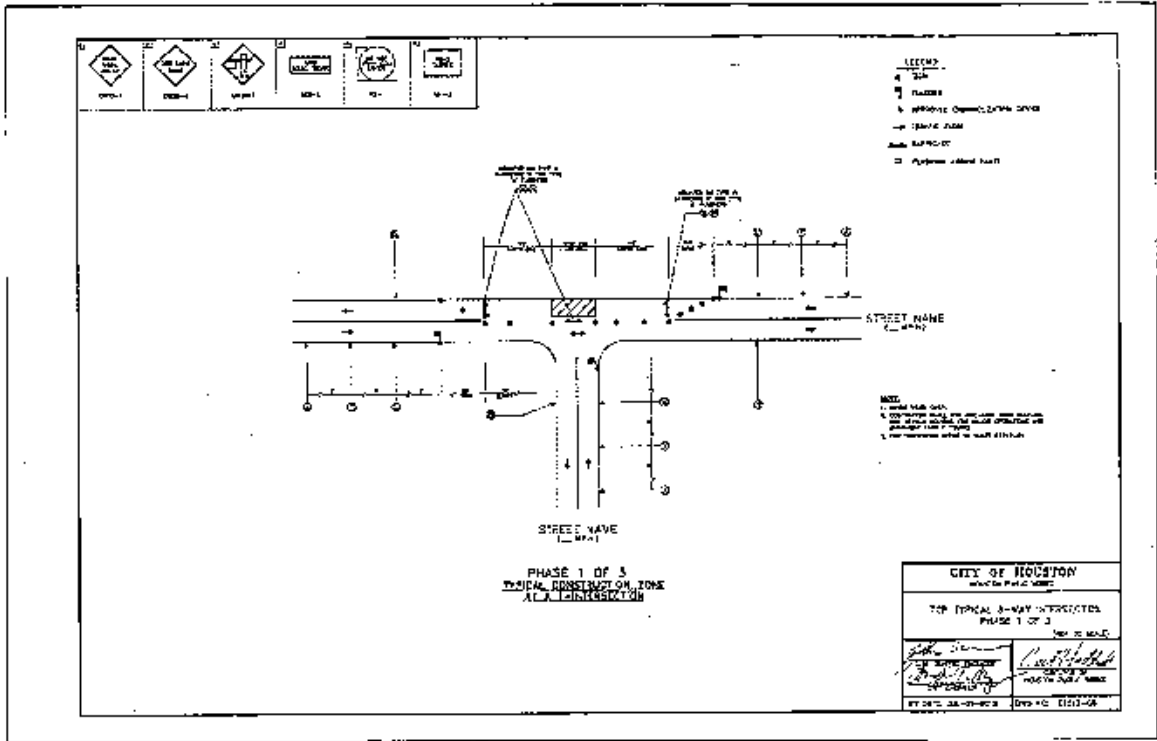
WBS NUMBER
N-105000-0010-7

DRAWING SCALE
NTS

CITY OF HOUSTON PM
MIEN PHAM, P.E.

SHEET NO. 10 OF 36

70825



NO.	DATE	REVISIONS	APP.

JONES BARTER

STATE OF TEXAS

SETH D. SWARINGER
 128178
 MECHANICAL ENGINEER

SURVEYED BY:
UNITED ENGINEERS, INC.
 FB NO.

**CITY OF HOUSTON
HOUSTON PUBLIC WORKS**

**WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT**

TCP STANDARDS

WBS NUMBER
N-T05000-0010-7

DRAWING SCALE
NTS

CITY OF HOUSTON PM
HIEN PHAM, P.E.

SHEET NO. 11 OF 36

70825

SHEET 2 OF 2

Beginning chain WOB_TRAIL description

Point 51 N 13,850,713.2161 E 3,104,770.3025 Sta 100+00.00

Course from 51 to PC WOB_TRAIL1 N 2° 15' 20.98" E Dist 88.1232

Curve Data

Curve WOB_TRAIL1
 P.I. Station 101+72.67 N 13,850,885.7649 E 3,104,776.8260
 Delta 2° 39' 43.06" (RT)
 Degree 1° 34' 28.17"
 Tangent 84.5491
 Length 169.0678
 Radius 3,639.0000
 External 0.9821
 Long Chord 169.0526
 Mid. Ord. 0.9818
 P.C. Station 100+88.12 N 13,850,801.2710 E 3,104,773.7711
 P.T. Station 102+57.19 N 13,850,970.0258 E 3,104,783.8017
 C.C. N 13,850,669.7906 E 3,108,410.3951
 Back = N 2° 04' 14.16" E
 Ahead = N 4° 43' 57.22" E
 Chord Bear = N 3° 24' 05.69" E

Course from PT WOB_TRAIL1 to 52 N 1° 37' 42.61" E Dist 52.2385

Point 52 N 13,851,022.2432 E 3,104,785.2862 Sta 103+09.43

Course from 52 to 53 N 0° 22' 17.09" W Dist 81.6996

Point 53 N 13,851,103.9411 E 3,104,784.7566 Sta 103+91.13

Course from 53 to PC WOB_TRAIL2 N 1° 16' 45.87" E Dist 20.1067

Curve Data

Curve WOB_TRAIL2
 P.I. Station 104+37.25 N 13,851,150.0485 E 3,104,785.7864
 Delta 29° 09' 41.87" (RT)
 Degree 57° 17' 44.81"
 Tangent 26.0123
 Length 50.8966
 Radius 100.0000
 External 3.3278
 Long Chord 50.3491
 Mid. Ord. 3.2206
 P.C. Station 104+11.24 N 13,851,124.0427 E 3,104,785.2056
 P.T. Station 104+62.13 N 13,851,172.4750 E 3,104,798.9655
 C.C. N 13,851,121.8099 E 3,104,885.1806
 Back = N 1° 16' 45.87" E
 Ahead = N 30° 26' 27.74" E
 Chord Bear = N 15° 51' 36.80" E

Course from PT WOB_TRAIL2 to PC WOB_TRAIL3 N 30° 26' 27.74" E Dist 44.2240

Curve Data

Curve WOB_TRAIL3
 P.I. Station 106+06.24 N 13,851,296.7154 E 3,104,871.9766
 Delta 59° 25' 51.90" (RT)
 Degree 32° 44' 25.60"
 Tangent 99.8812
 Length 181.5219
 Radius 175.0000
 External 26.4975
 Long Chord 173.4930
 Mid. Ord. 23.0130
 P.C. Station 105+06.36 N 13,851,210.6028 E 3,104,821.3717
 P.T. Station 106+87.88 N 13,851,296.9383 E 3,104,971.8575
 C.C. N 13,851,121.9388 E 3,104,972.2481
 Back = N 30° 26' 27.74" E
 Ahead = N 89° 52' 19.64" E
 Chord Bear = N 60° 09' 23.69" E

Course from PT WOB_TRAIL3 to PC WOB_TRAIL4 N 89° 52' 19.64" E Dist 430.0001

Curve Data

Curve WOB_TRAIL4
 P.I. Station 111+30.34 N 13,851,297.9259 E 3,105,414.3164
 Delta 4° 36' 12.05" (RT)
 Degree 18° 28' 57.03"
 Tangent 12.4600
 Length 24.9065
 Radius 310.0000
 External 0.2503
 Long Chord 24.8998
 Mid. Ord. 0.2501
 P.C. Station 111+17.88 N 13,851,297.8981 E 3,105,401.8565
 P.T. Station 111+42.78 N 13,851,296.9536 E 3,105,426.7384
 C.C. N 13,850,987.8968 E 3,105,402.5484
 Back = N 89° 52' 19.64" E
 Ahead = S 85° 31' 28.32" E
 Chord Bear = S 87° 49' 34.34" E

Curve Data

Curve WOB_TRAIL5
 P.I. Station 111+55.24 N 13,851,295.9813 E 3,105,439.1604
 Delta 4° 36' 12.04" (LT)
 Degree 18° 28' 57.03"
 Tangent 12.4600
 Length 24.9065
 Radius 310.0000
 External 0.2503
 Long Chord 24.8998
 Mid. Ord. 0.2501
 P.C. Station 111+42.78 N 13,851,296.9536 E 3,105,426.7384
 P.T. Station 111+67.69 N 13,851,296.0091 E 3,105,451.6203
 C.C. N 13,851,606.0084 E 3,105,450.9284
 Back = S 85° 31' 28.32" E
 Ahead = N 89° 52' 19.64" E
 Chord Bear = S 87° 49' 34.34" E

Course from PT WOB_TRAIL5 to PC WOB_TRAIL6 N 89° 52' 19.64" E Dist 118.1047

Curve Data

Curve WOB_TRAIL6
 P.I. Station 113+34.10 N 13,851,296.3805 E 3,105,618.0299
 Delta 23° 13' 52.45" (RT)
 Degree 24° 22' 52.26"
 Tangent 48.3053
 Length 95.2835
 Radius 235.0000
 External 4.9133
 Long Chord 94.6321
 Mid. Ord. 4.8127
 P.C. Station 112+85.80 N 13,851,296.2727 E 3,105,569.7247
 P.T. Station 113+81.08 N 13,851,277.4260 E 3,105,662.4611
 C.C. N 13,851,061.2733 E 3,105,570.2492
 Back = N 89° 52' 19.64" E
 Ahead = S 66° 53' 47.91" E
 Chord Bear = S 78° 30' 44.14" E

Curve Data

Curve WOB_TRAIL7
 P.I. Station 114+29.11 N 13,851,258.5786 E 3,105,706.6409
 Delta 23° 06' 12.09" (LT)
 Degree 24° 22' 52.26"
 Tangent 48.0321
 Length 94.7590
 Radius 235.0000
 External 4.8585
 Long Chord 94.1183
 Mid. Ord. 4.7600
 P.C. Station 113+81.08 N 13,851,277.4260 E 3,105,662.4611
 P.T. Station 114+75.84 N 13,851,258.5786 E 3,105,754.6730
 C.C. N 13,851,493.5786 E 3,105,754.6730
 Back = S 66° 53' 47.91" E
 Ahead = Due East
 Chord Bear = S 78° 26' 53.96" E

Course from PT WOB_TRAIL7 to 54 Due East Dist 205.9539

Point 54 N 13,851,258.5786 E 3,105,960.6269 Sta 116+81.79

Ending chain WOB_TRAIL description

NO.	DATE	REVISIONS	APP.
SURVEYED BY: UNITED ENGINEERS, INC. FE NO.			
CITY OF HOUSTON HOUSTON PUBLIC WORKS			
WHITE OAK BAYOU TRAIL TO MEMORIAL PARK CONNECTION PROJECT			
HORIZONTAL ALIGNMENT DATA			
WBS NUMBER N-105000-0010-7		SHEET 1 OF 2	
DRAWING SCALE NTS		70825	
CITY OF HOUSTON PUBLIC WORKS HIEN PHAM, P.E.			
SHEET NO. 12 OF 36			

Beginning chain WOB_EXIST description

Point E01 N 13,851,189.6632 E 3,105,874.0916 Sta 10+00.00

Course from E01 to PC WOB_EXIST1 N 1° 04' 23.37" E Dist 29.6698


Curve Data


Curve WOB_EXIST1

P.I. Station 10+58.93 N 13,851,258.5786 E 3,105,875.3826
Delta = 88° 55' 36.63" (RT)
Degree = 143° 14' 22.02"
Tangent = 39.2577
Length = 62.0826
Radius = 40.0000
External = 16.0461
Long Chord = 56.0363
Mid. Ord. = 11.4521
P.C. Station 10+29.67 N 13,851,219.3278 E 3,105,874.6473
P.T. Station 10+91.75 N 13,851,258.5786 E 3,105,914.6403
C.C. = N 1° 04' 23.37" E
Back = Due East
Chord Bear = N 45° 32' 11.68" E

Ending chain WOB_EXIST description

NO.	DATE	REVISIONS	APP.

 JONES CARTER
SURVEYED BY:
UNITED ENGINEERS, INC.
FB NO.


SETH D. SWARINCE
128178
LICENSED
PROFESSIONAL ENGINEER
8/17/21

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

**HORIZONTAL ALIGNMENT
DATA**

WBS NUMBER

N-T05000-00-D-7

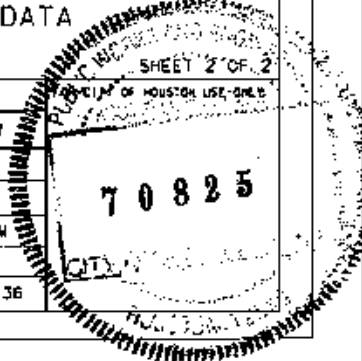
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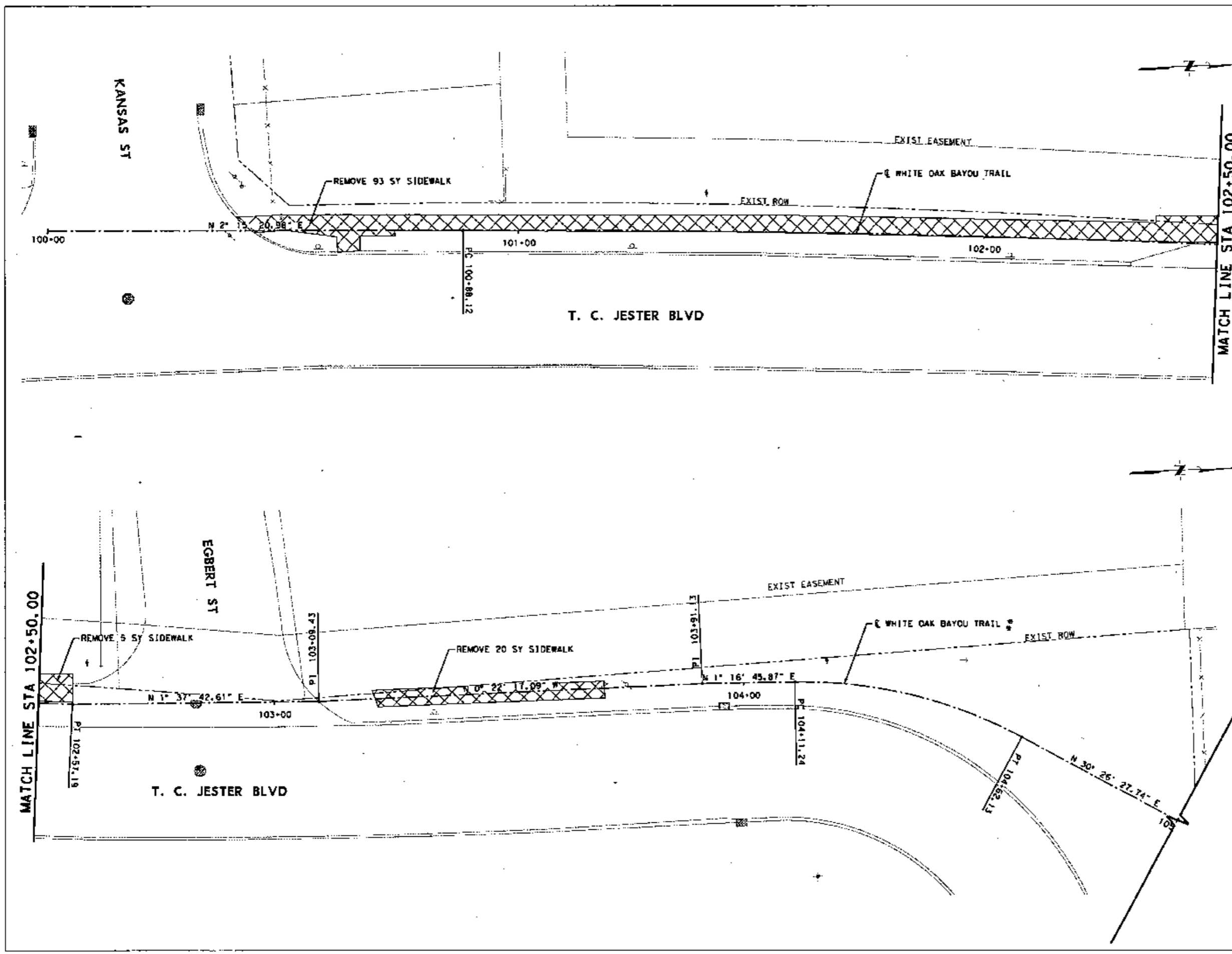
NTS

CITY OF HOUSTON PM

RIEN PHAM, P.E.

SHEET NO. 13 OF 36





LEGEND:
 --- EXISTING ROW
 [X] REMOVE SIDEWALK

NOTICE:
 FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES
 Mike Brown Date 07-27-21
 CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not be used for conflict verification.
 Signature valid for six months.

UNDERGROUND FACILITIES VERIFICATION
 Mike Brown Date 07-27-21
 CenterPoint Energy UNDERGROUND Electrical Facilities ONLY.
 (This signature verifies existing underground facilities - not to be used for conflict verification)
 Signature valid for six months.

N/A Date
 Approved for AT&T Texas SR01 underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

JONES BARTER

STATE OF TEXAS
 SETH D. SWARTZ
 128178
 PROFESSIONAL ENGINEER
 8/17/21

SURVEYED BY:
 UNITED ENGINEERS, INC.
 FB NO.

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS
 WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

REMOVAL PLAN
 BEGIN TO STA 100+00
 SHEET 1 OF 2

WBS NUMBER	N-T05000-0010-7
DRAWING SCALE	HORIZ. 1"=20'
CITY OF HOUSTON PROJECT	HIEN PHAM, P.E.
SHEET NO. 14 OF 36	70825



0' 5' 10' 20'

LEGEND:

-  EXISTING ROW
-  REMOVE SIDEWALK

NOTICE:
 FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MAPPED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.


VERIFICATION OF PRIVATE UTILITY LINES

Mike Brown Date 07-27-21
 CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature may be used for conflict verification.
 Signature valid for six months.


Mike Brown Date 07-27-21
 CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
 (This signature verifies existing underground facilities - not to be used for conflict verification)
 Signature valid for six months.

Richard Thelwell Date 7/22/21
 Approved for AT&T Texas SMT underground consult facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.



JONES GARTER
 ENGINEERS, ARCHITECTS & SURVEYORS



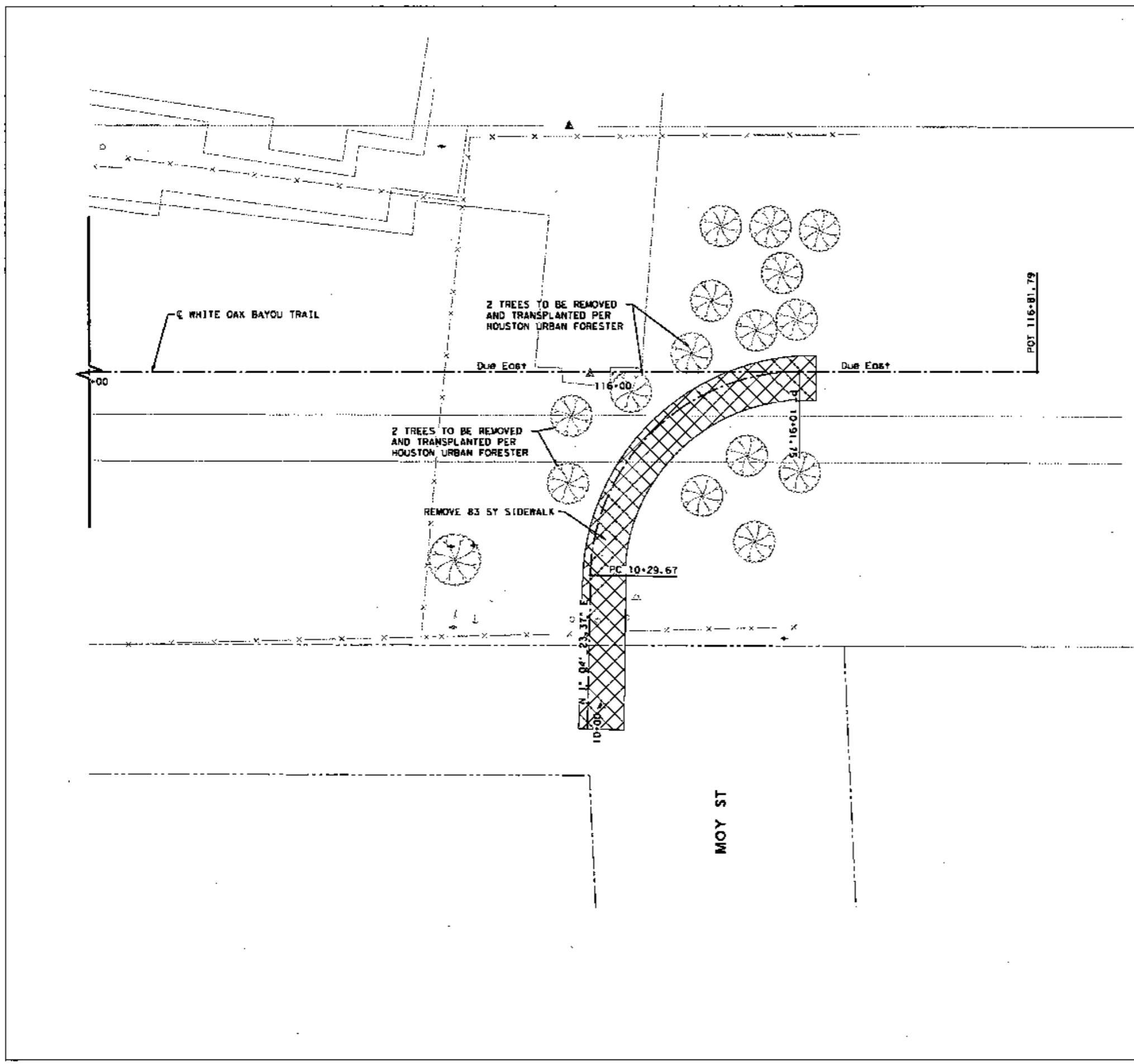
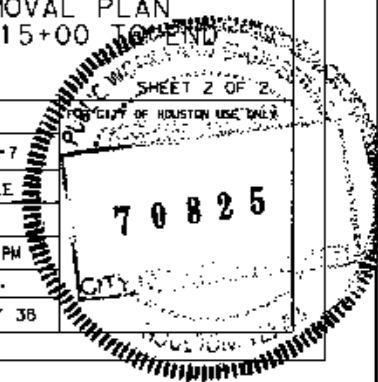
SURVEYED BY:
 UNITED ENGINEERS, INC.
 FB NO.

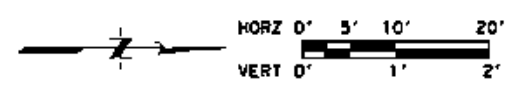
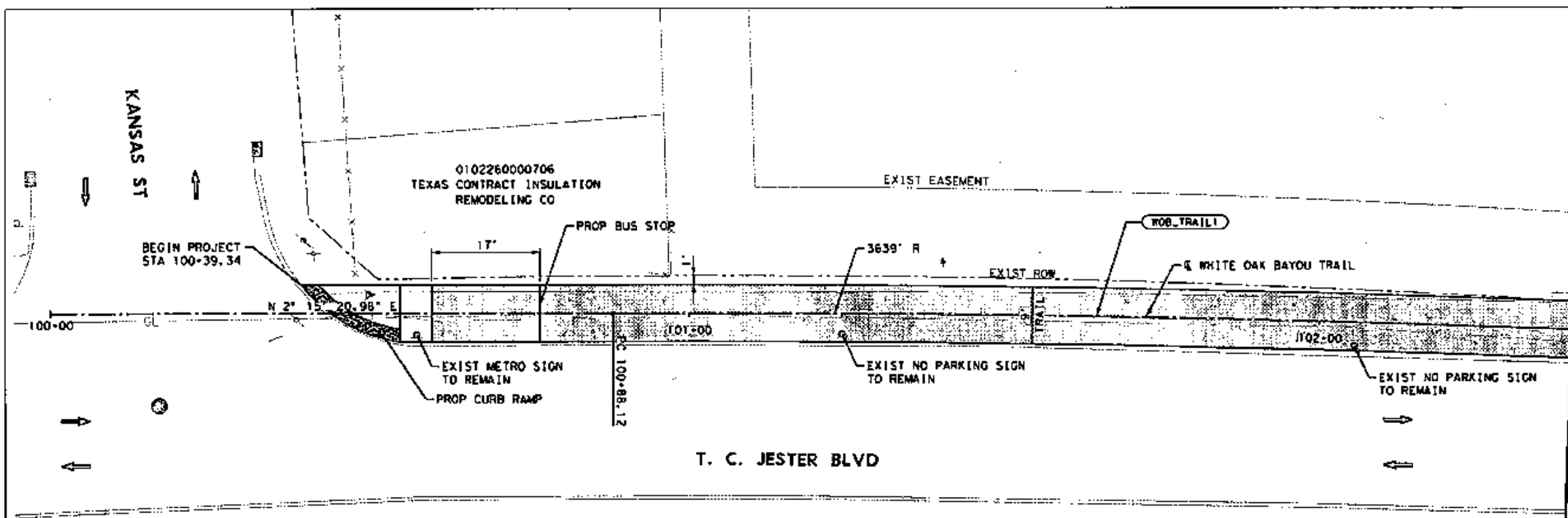
CITY OF HOUSTON
 HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

REMOVAL PLAN
 STA 115+00 TO 116+00

WBS NUMBER	N-T05000-0010-7
DRAWING SCALE	HORIZ. 1"=20'
CITY OF HOUSTON PW	HIEN PHAM, P.E.
SHEET NO. 15 OF 35	

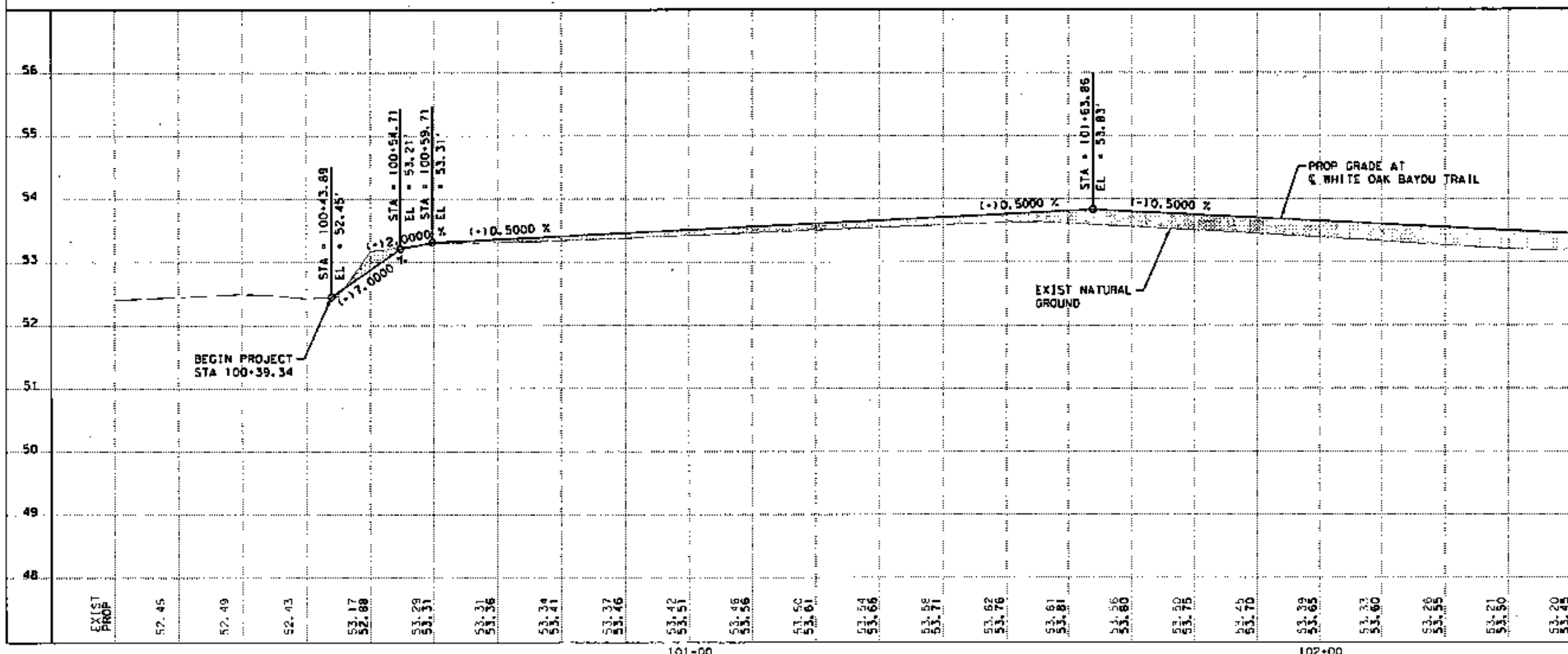




- LEGEND:**
- PROPOSED TRAIL ALIGNMENT
 - ALIGNMENT CURVE NAME
 - EXIST TRAFFIC FLOW
 - EXIST ROW
 - EXIST MANHOLE
 - EXIST INLET

T. C. JESTER BLVD

MATCH LINE STA 102+40.00



MATCH LINE STA 102+40.00

NOTICE:
 FOR YOUR SAFETY, YOU ARE REMOVED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Mike Brown Date 07-27-21
 CenterPoint Energy natural gas utilities shown. 1000 services (lines are not shown). This signature not be used for conflict verification.
 Signature valid for six months.

Mike Brown Date 07-27-21
 CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
 (This signature verifies existing underground facilities - not to be used for conflict verification)
 Signature valid for six months.

Roberto Gonzalez Date 7/22/21
 Approved for 811 Texas SMT underground facility facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

PLAN & PROFILE
 BEGIN TO STA 102+40

SHEET 1 OF 8

WBS NUMBER: N-105000-0010

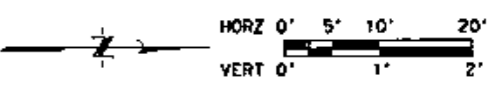
DRAWING SCAL: VERT. 1"=2' HORIZ. 1"=100'

CITY OF HOUSTON
 HIEN PHAM, P.E.

SHEET NO. 16 OF 36

70825

HOUSTON, TEXAS



LEGEND:

- PROPOSED TRAIL ALIGNMENT
- ALIGNMENT CURVE NAME
- EXIST TRAFFIC FLOW
- EXIST ROW
- EXIST MANHOLE
- EXIST INLET

NOTICE:

FOR YOUR SAFETY, YOU ARE REMINDER BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Mike Brown Date 07-27-21
 CenterPoint Energy natural gas utilities shown. 4000 service lines are not shown. This signature not be used for conflict verification.
 Signature valid for six months.

Mike Brown Date 07-27-21
 CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
 (This signature verifies existing underground facilities - not to be used for conflict verification)
 Signature valid for six months.

Scottie Bland Date 7/22/21
 Approved for AT&T Texas SMT underground conduit facilities only. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

JONES BARTER

STATE OF TEXAS
SETH D. SWARINGEN
 128178
 PROFESSIONAL ENGINEER
 '8/17/21

SURVEYED BY:
 UNITED ENGINEERS, INC.
 FB NO.

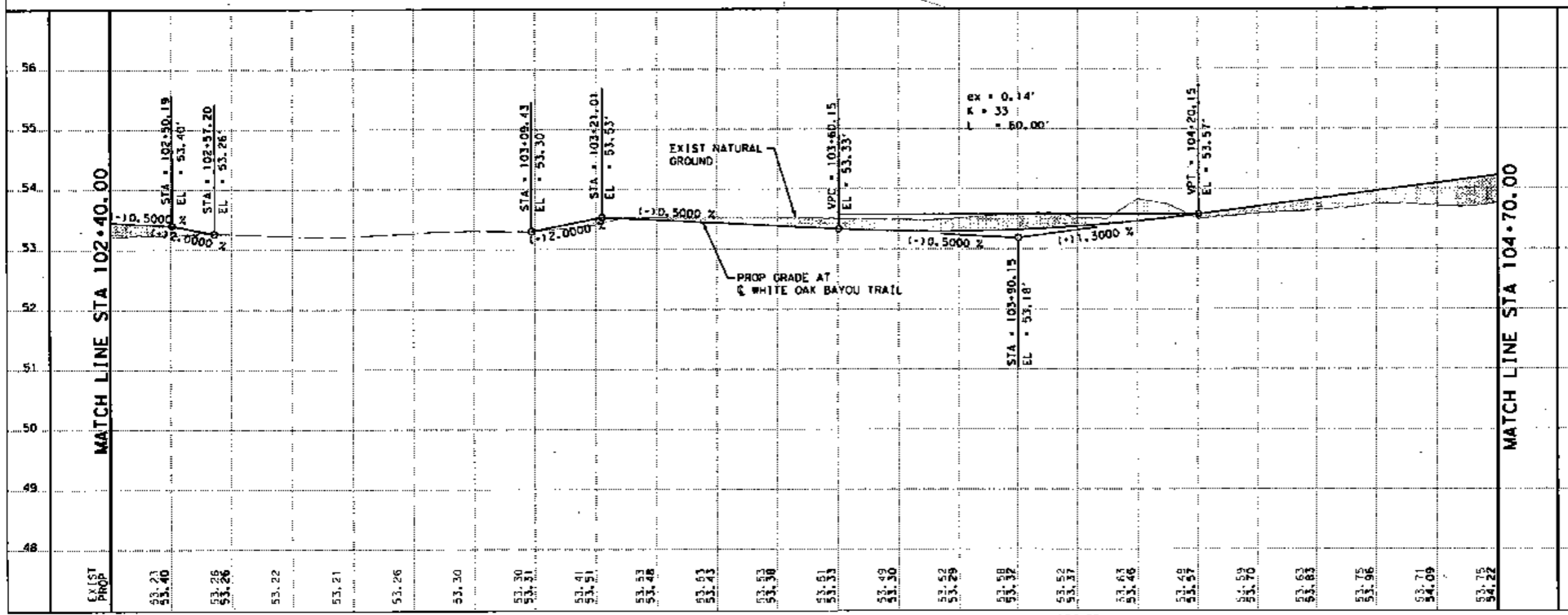
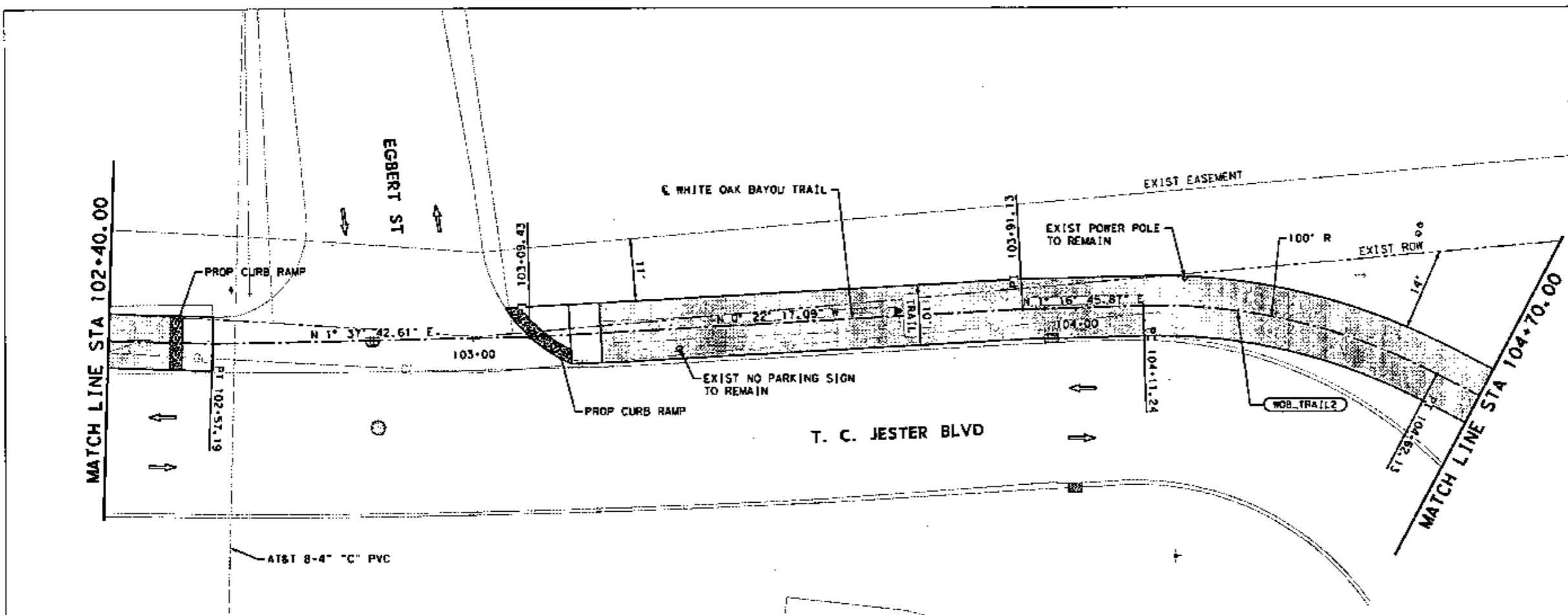
CITY OF HOUSTON
 HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

PLAN & PROFILE
 STA 102+40 TO STA 104+70

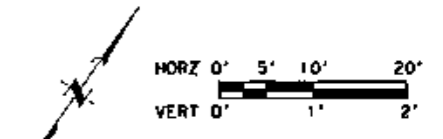
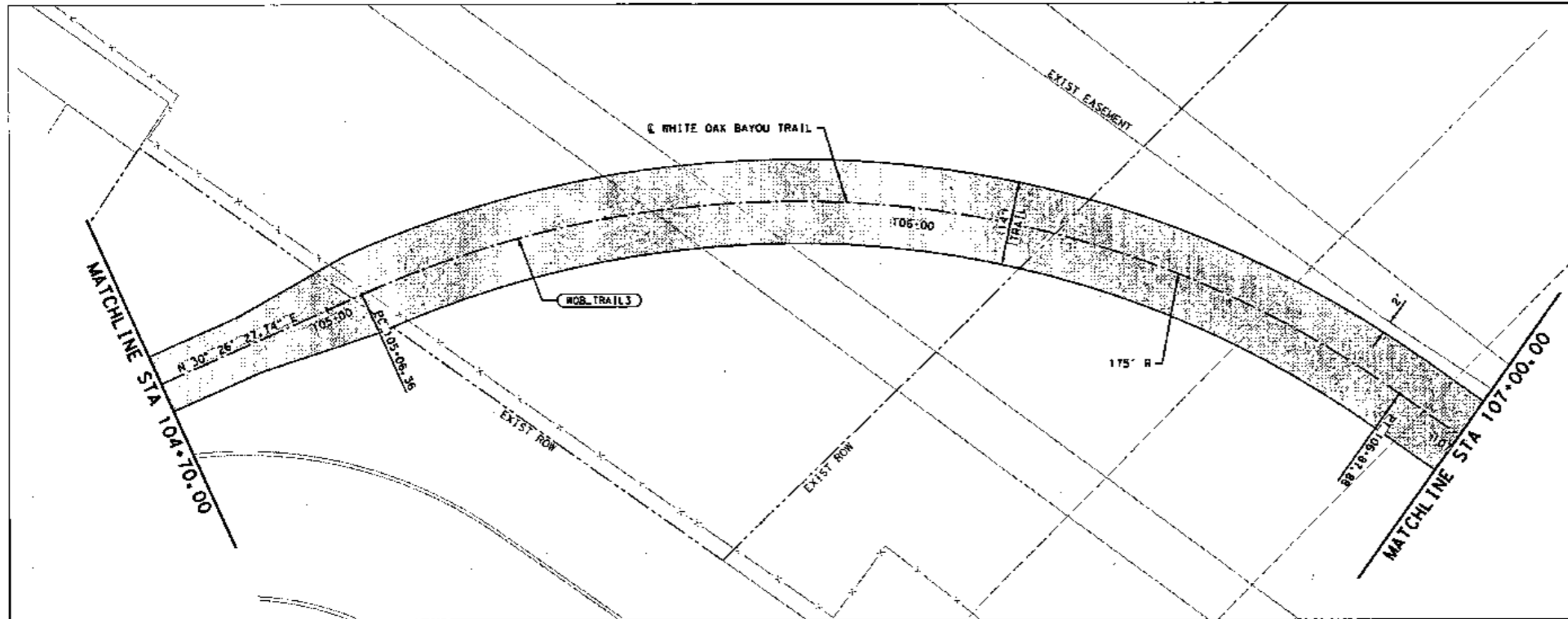
WBS NUMBER	N-T05000-0010-7
DRAWING SCALE	VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PN	HIEN PHAM, P.E.
SHEET NO. 17 OF 36	SHEET 2 OF 8

70825



103+00

104+00



- LEGEND:**
- PROPOSED TRAIL ALIGNMENT
 - ALIGNMENT CURVE NAME
 - EXIST TRAFFIC FLOW
 - EXIST ROW
 - EXIST MANHOLE
 - EXIST INLET

NOTICE:
 FOR YOUR SAFETY, YOU ARE REQUESTED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG TO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Mike Brown Date 07-27-21
 CenterPoint Energy natural gas utilities shown. (gas service lines are not shown). This signature may be used for conflict verification.
 Signature valid for six months.

Mike Brown Date 07-27-21
 CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
 (This signature verifies existing underground facilities - not to be used for conflict verification)
 Signature valid for six months.

Z. K. ... Date 7/22/21
 Approved for AT&T Tuxes SMI underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS

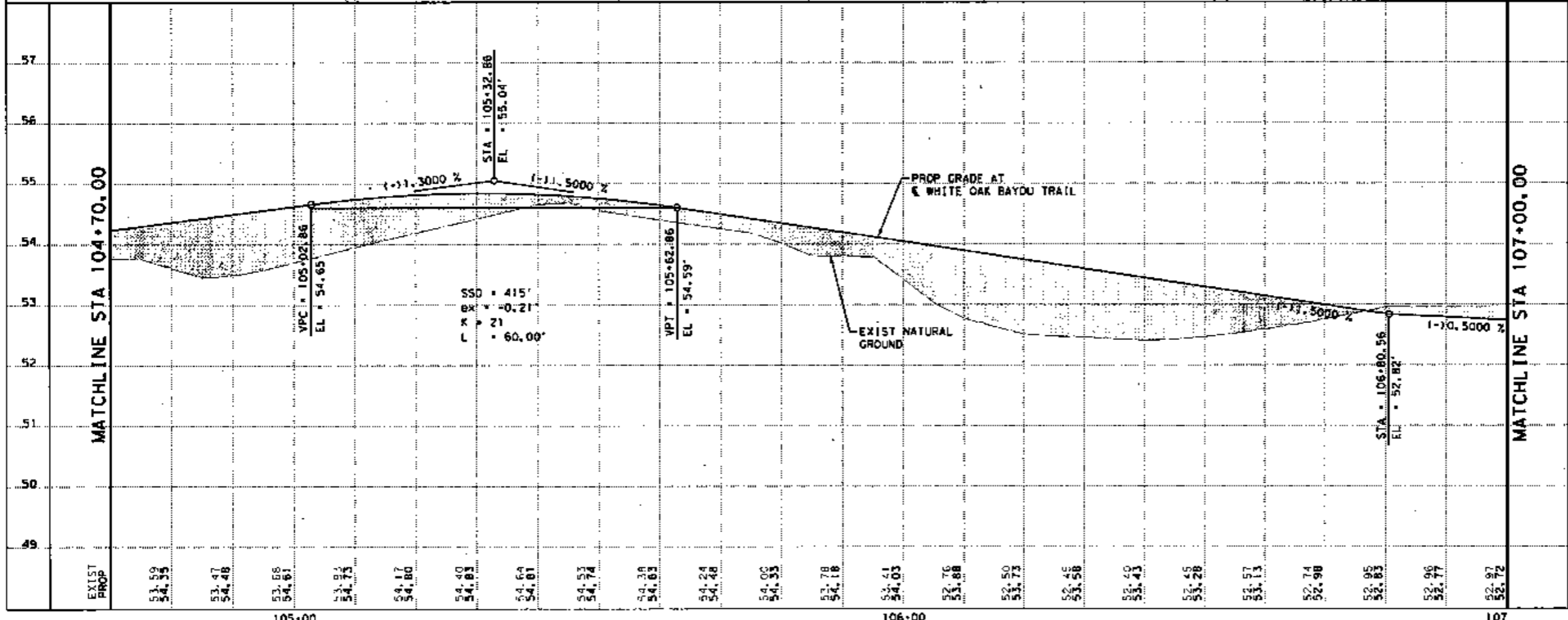
WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

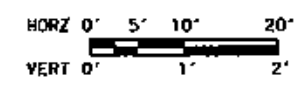
PLAN & PROFILE
 STA 104+70 TO STA 107+00

SHEET 3 OF 3

WBS NUMBER: N-T05000-C010
 DRAWING SCAL: VERT. 1"=2' HORIZ. 1"=100'
 CITY OF HOUSTON PA: HIER PHAM, P.E.
 SHEET NO. 18 OF 36

70825





LEGEND:

- PROPOSED TRAIL ALIGNMENT
- ALIGNMENT CURVE NAME
- EXIST TRAFFIC FLOW
- EXIST ROW
- EXIST MANHOLE
- EXIST INLET

NOTICE:

FOR YOUR SAFETY, YOU ARE ADVISED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT RELIEVE YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Mike Brown Date 07-27-21
 CenterPoint Energy natural gas utilities shown. Gas service lines are not shown. This signature not be used for conflict verification.
 Signature valid for six months.

Mike Brown Date 07-27-21
 CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.

This signature verifies existing underground facilities - not to be used for conflict verification.
 Signature valid for six months.

S. Lewis Date 7/22/21
 Approved for AT&T Texas S&BT Underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

JGD JONES GARTER

STATE OF TEXAS
SETH D. SWARINGER
 128178
 LICENSE
 8/17/21

SURVEYED BY:
 UNITED ENGINEERS, INC.
 FB NO.

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS
 WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

PLAN & PROFILE
 STA 107+00 TO STA 109+30

SHEET 4 OF 8

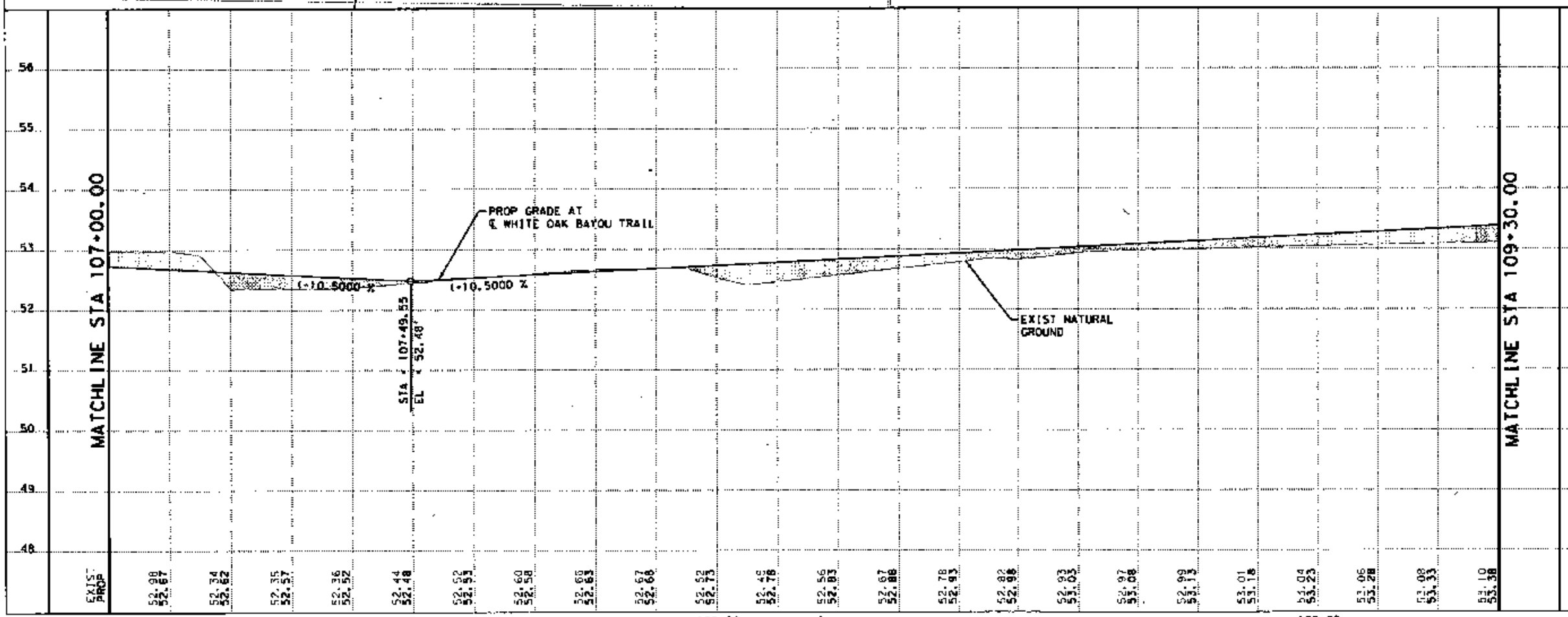
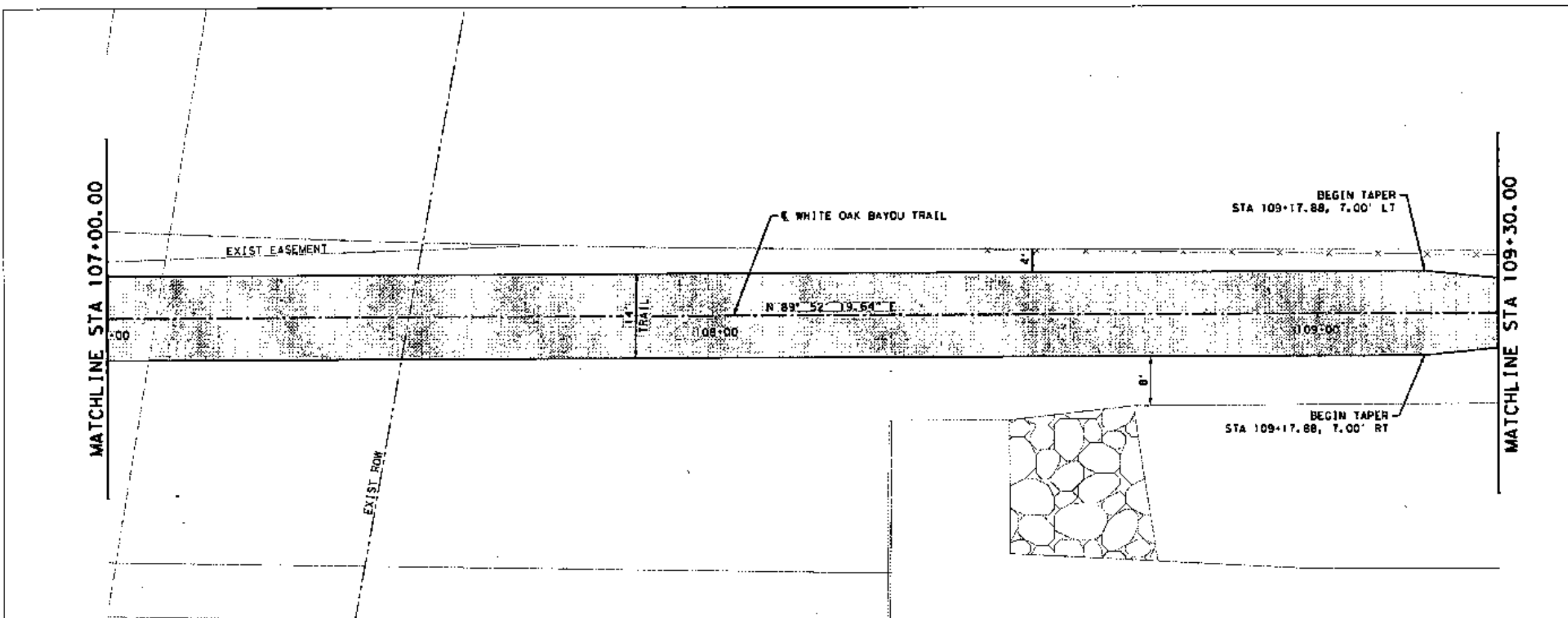
WBS NUMBER N-105000-0010-7

DRAWING SCALE VERT. 1"=2' HORIZ. 1"=40'

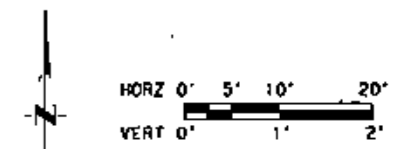
CITY OF HOUSTON P.M.
 HIEN PHAM, P.E.

SHEET NO. 19 OF 38

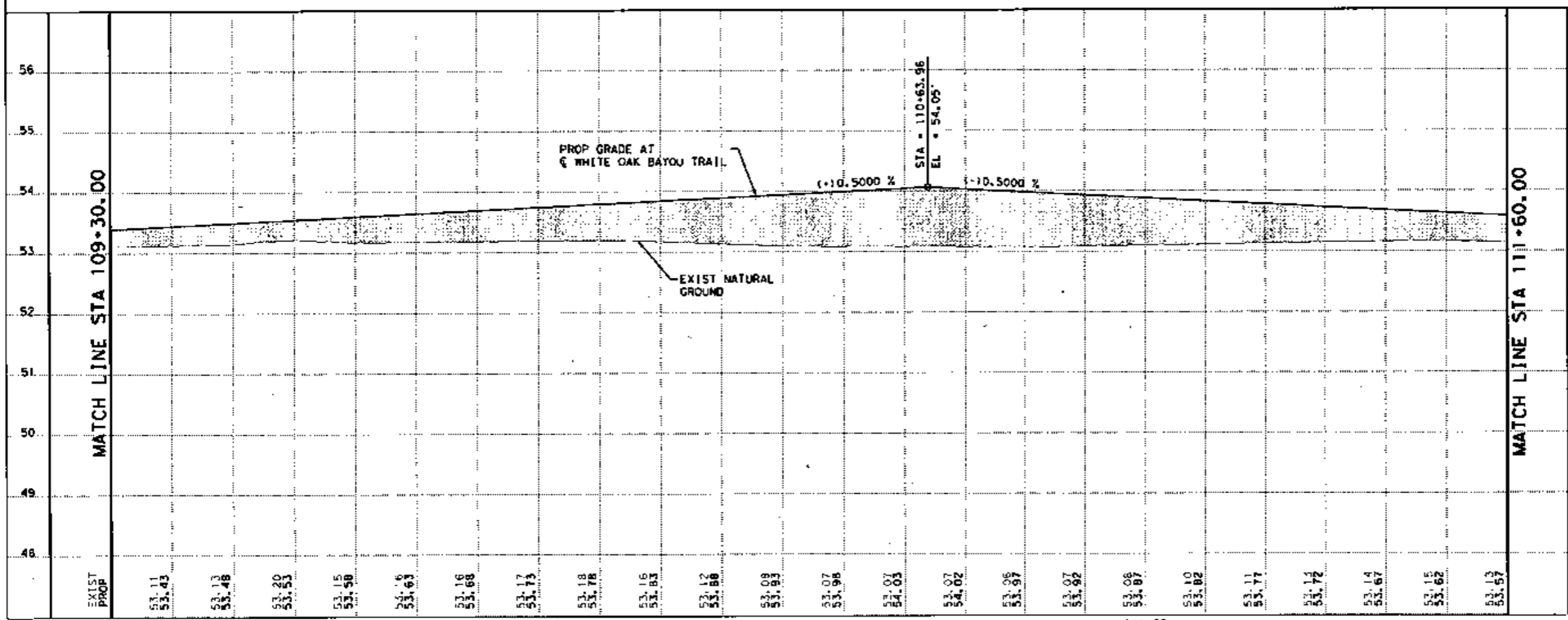
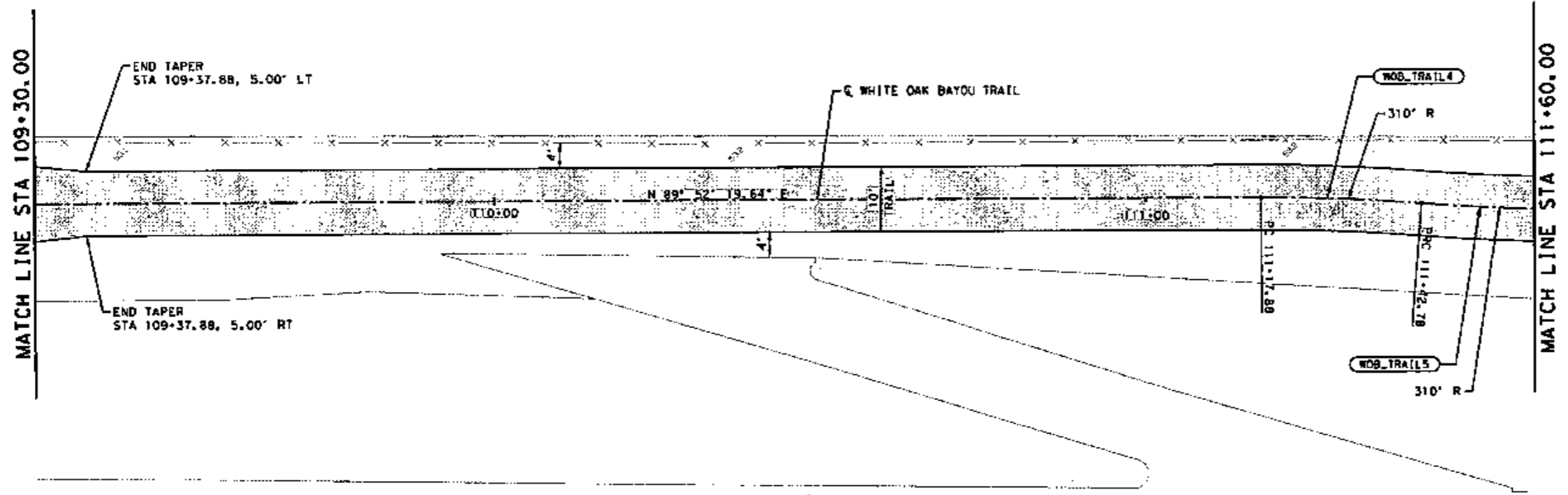
70825



EXIST PROP	52.98	52.67	52.34	52.62	52.35	52.57	52.36	52.52	52.48	52.52	52.53	52.60	52.58	52.63	52.67	52.66	52.62	52.73	52.48	52.78	52.48	52.56	52.83	52.67	52.88	52.78	52.93	52.82	52.96	52.93	52.03	52.97	52.08	52.99	52.01	52.16	52.04	52.23	52.06	52.28	52.08	52.33	52.10	52.38
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- LEGEND:**
- PROPOSED TRAIL ALIGNMENT
 - ALIGNMENT CURVE NAME
 - EXIST TRAFFIC FLOW
 - EXIST ROW
 - EXIST MANHOLE
 - EXIST INLET



NOTICE:
 FOR YOUR SAFETY, YOU ARE REQUESTED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG TO FIND UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT GUARANTEE YOU WILL BE ABLE TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES
 Mike Brown Date 07-27-21
 CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not be used for conflict verification.
 Signature valid for six months.

UNDERGROUND ELECTRICAL FACILITIES VERIFICATION
 Mike Brown Date 07-27-21
 CenterPoint Energy UNDERGROUND Electrical Facilities Verification ONLY.
 (This signature verifies existing underground facilities - not to be used for conflict verification)
 Signature valid for six months.

APPROVED FOR AT&T TEXAS SMT UNDERGROUND CONDUIT FACILITIES ONLY. SIGNATURE VALID FOR ONE YEAR.
 Z. R. [Signature] Date 7/22/21

NO.	DATE	REVISIONS	APP.
56			
55			
54			
53			
52			
51			
50			
49			
48			

JONES BARTER
 SURVEYED BY:
 UNITED ENGINEERS, INC.
 FB NO. []

STATE OF TEXAS
 SETH D. SWARINGEN
 128175
 LICENSED PROFESSIONAL ENGINEER
 8/17/21

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS
 WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

PLAN & PROFILE
 STA 109+30 TO STA 111+60
 SHEET 5 OF 8

WBS NUMBER: N-705000-0010-
 DRAWING SCALE: VERT. 1"=2' HORIZ. 1"=40'
 CITY OF HOUSTON
 HIEN PHAM, P.E.
 SHEET NO. 20 OF 36

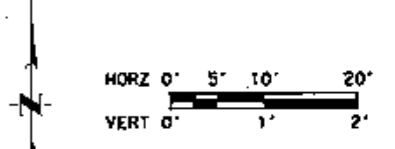
70825

110+00

111+00

MATCH LINE STA 111+60.00

MATCH LINE STA 113+90.00



- LEGEND:**
- PROPOSED TRAIL ALIGNMENT
 - ALIGNMENT CURVE NAME
 - EXIST TRAFFIC FLOW
 - EXIST ROW
 - EXIST MANHOLE
 - EXIST INLET

NOTICE:
 FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT RELIEVE YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Mike Browner Date 07-27-21
 CenterPoint Energy natural gas utilities shown. 1600 service lines are not shown. This signature for use for conflict verification.
 Signature valid for six months.

Mike Browner Date 07-27-21
 CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
 (This signature verifies existing underground facilities - not to be used for conflict verification)
 Signature valid for six months.

Robert Heston Date 7/22/21
 Approved for AT&T Texas SMT underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

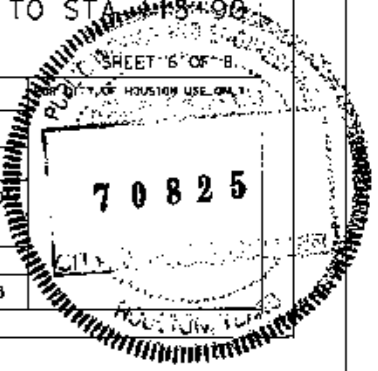
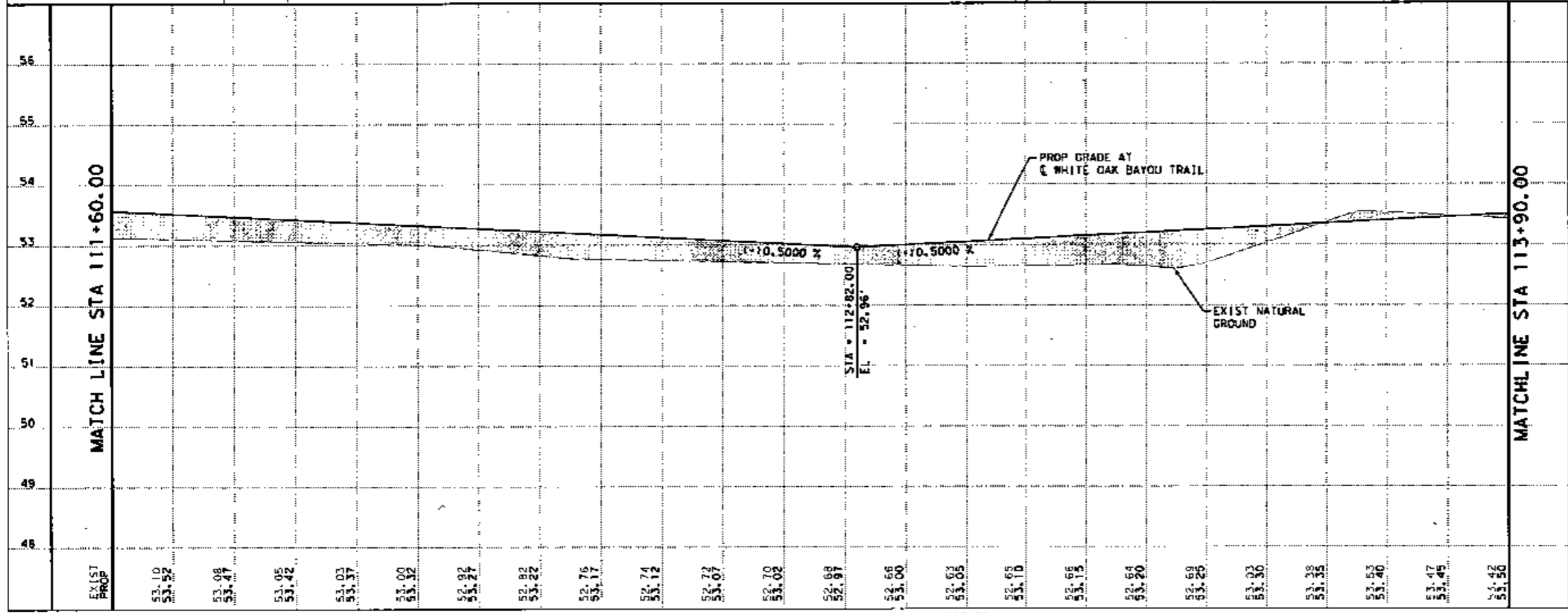
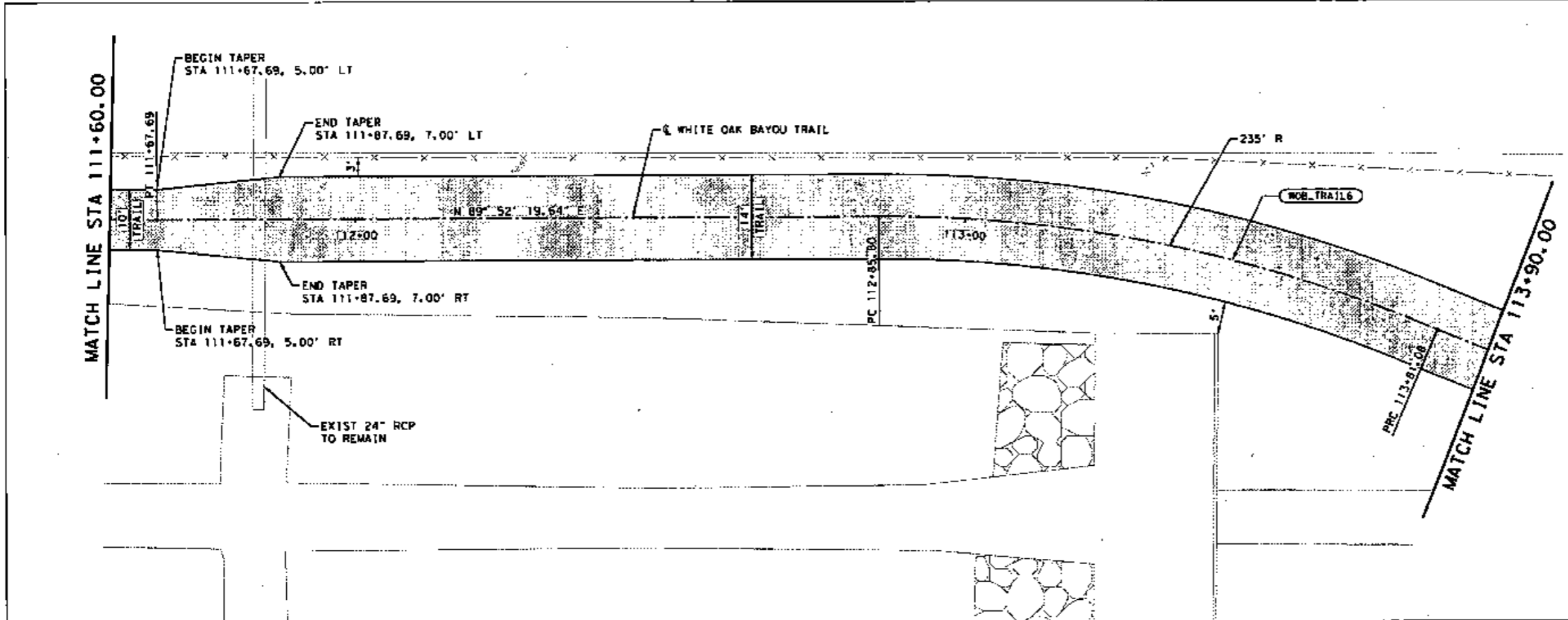
CITY OF HOUSTON
 HOLSTON PUBLIC WORKS

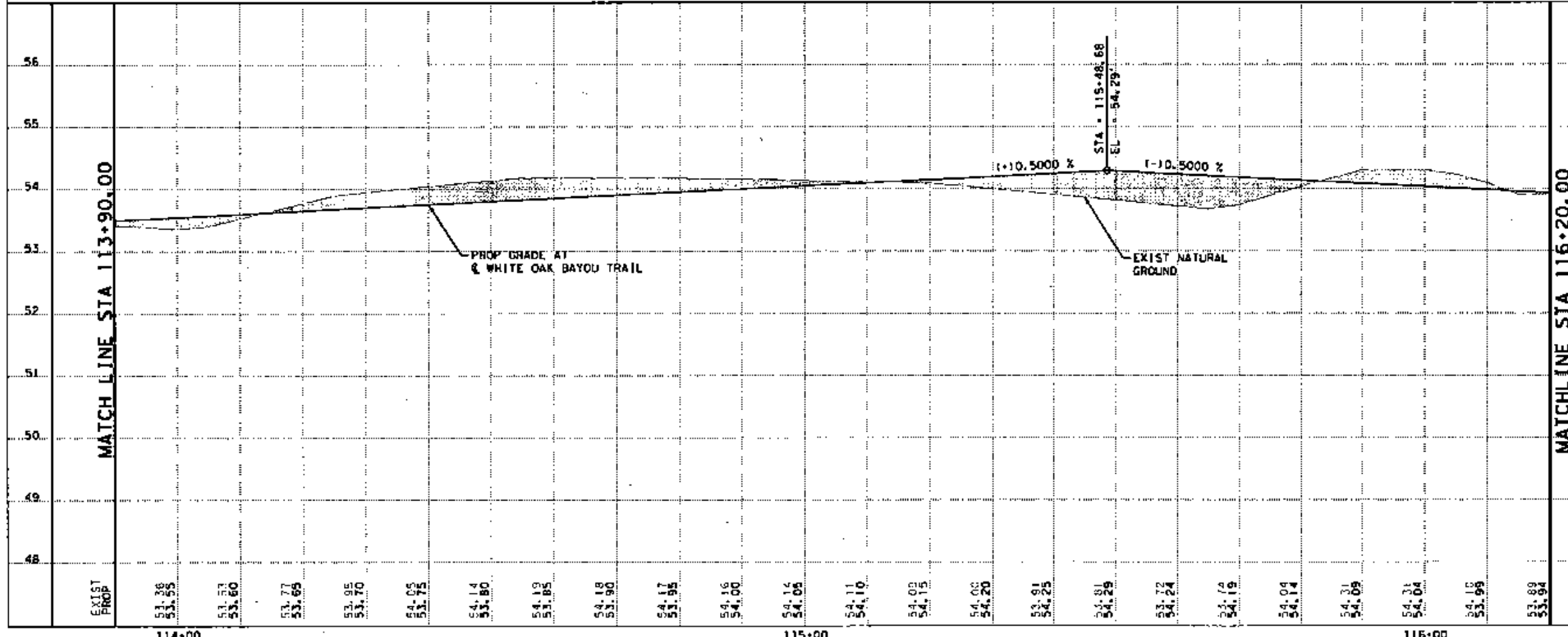
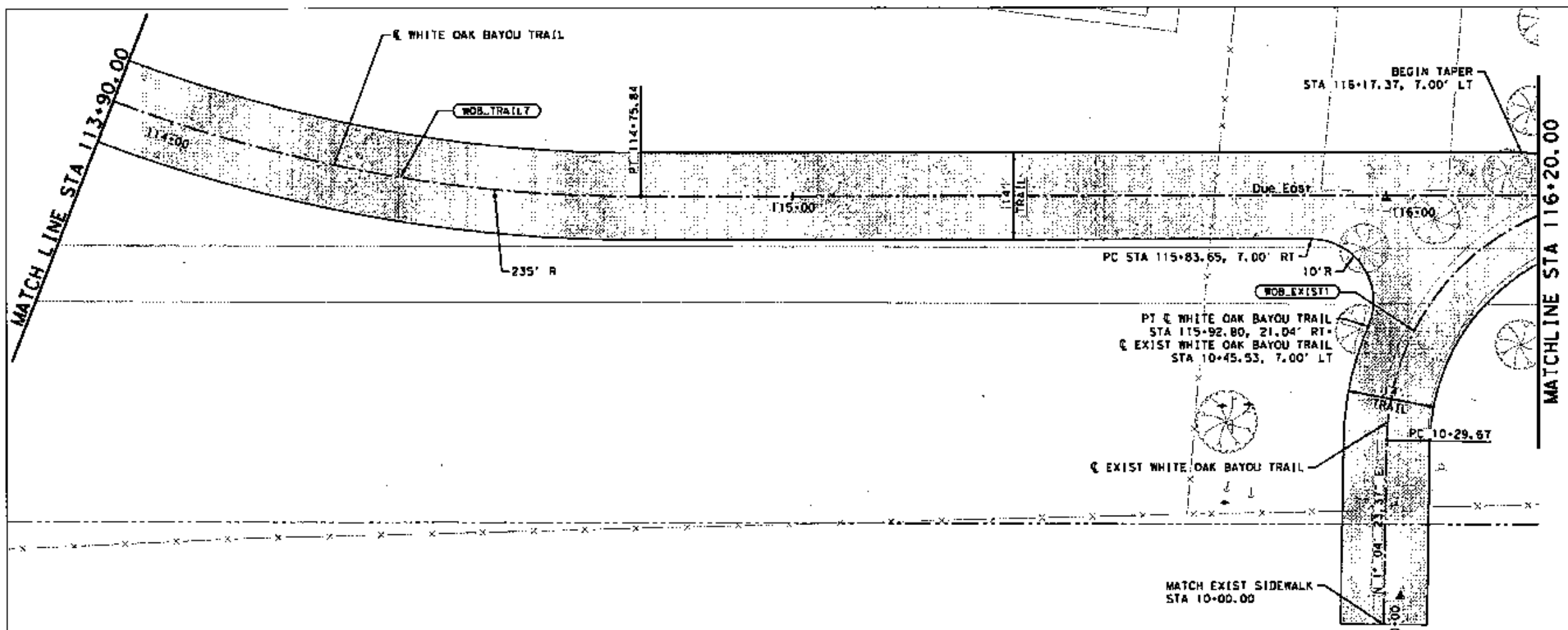
WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

PLAN & PROFILE
 STA 111+60 TO STA 113+90

SHEET 6 OF 8

WBS NUMBER	N-T05000-0010-7
DRAWING SCALE	VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM	HIEN PHAM, P.E.
SHEET NO. 21 OF 38	70825





NOTICE:
 FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT REPLACE YOUR OBLIGATION TO CALL 811.
 VERIFICATION OF PRIVATE UTILITY LINES

Mike Brown Date 07-27-21
 CenterPoint Energy natural gas utilities shown. (609 service lines are not shown). This signature not to be used for conflict verification.
 Signature valid for six months.

Mike Brown Date 07-27-21
 CenterPoint Energy UNDERGROUND Electrical Facilities Verification ONLY.
 This signature verifies existing underground facilities - not to be used for conflict verification.
 Signature valid for six months.

Roberta Hernandez Date 7/22/21
 Approved for ST&T Texas SWBT underground conduit facilities ONLY. Signature valid for one year.

NO. DATE REVISIONS APP.

JONES CARTER

STATE OF TEXAS
SETH D. SWARINGER
 128178
 LICENSED PROFESSIONAL ENGINEER

SURVEYED BY:
 UNITED ENGINEERS, INC.
 FB NO.

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS
 WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

PLAN & PROFILE
 STA 113+90 TO STA 116+20

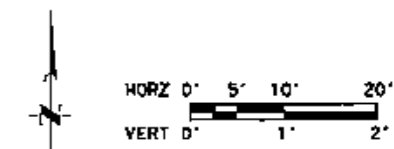
WBS NUMBER
 N-T05000-0010-7

DRAWING SCALE
 VERT. 1"=2' HORIZ. 1"=

CITY OF HOUSTON P.M.
 HIEN PHAM, P.E.

SHEET NO. 22 OF 35

70825



LEGEND:

- PROPOSED TRAIL ALIGNMENT
- ALIGNMENT CURVE NAME
- EXIST TRAFFIC FLOW
- EXIST ROW
- EXIST MANHOLE
- EXIST INLET

NOTICE:
 FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED.
 THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Date _____
 CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not be used for conflict verification.
 Signature valid for six months.

VERIFICATION OF UNDERGROUND ELECTRICAL FACILITIES

Date _____
 CenterPoint Energy/UNDERGROUND Electrical facilities verification ONLY.
 (This signature verifies existing underground facilities - not to be used for conflict verification)
 Signature valid for six months.

Date _____
 Approved for ALL Texas SMR underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

JONES CARTER

SURVEYED BY:
 UNITED ENGINEERS, INC.
 FE NO. _____

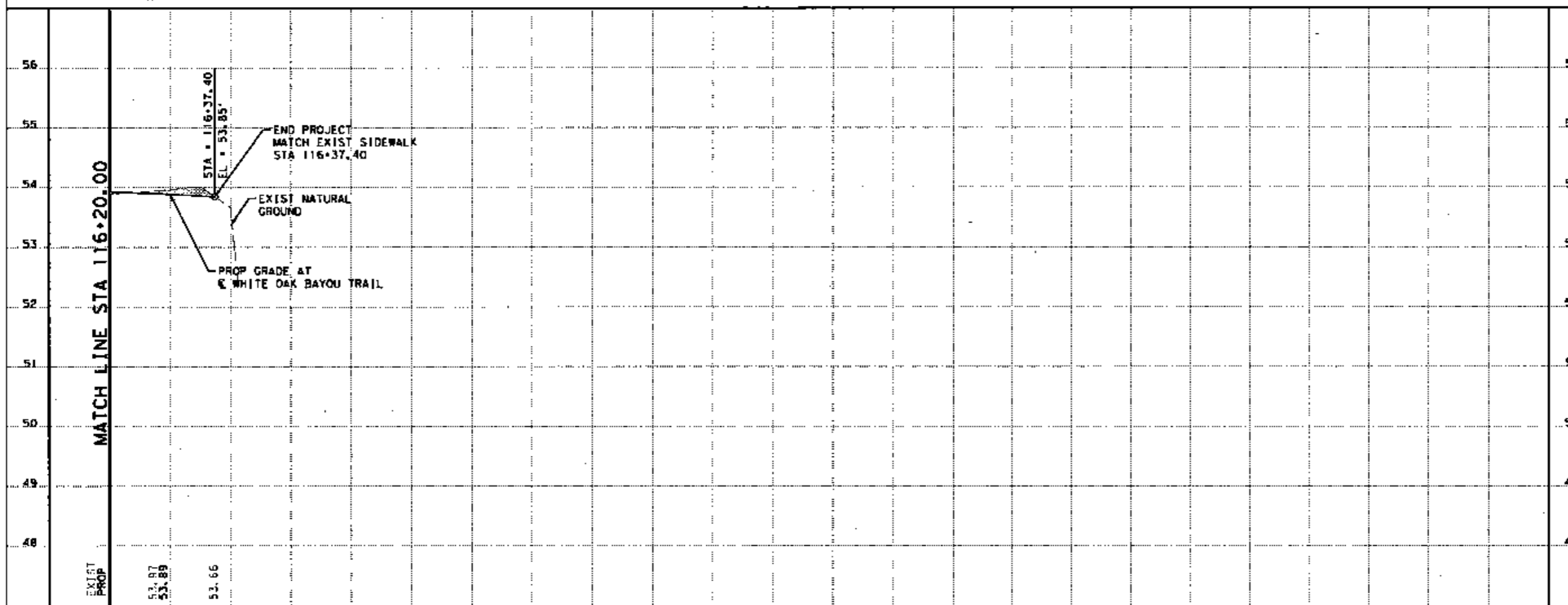
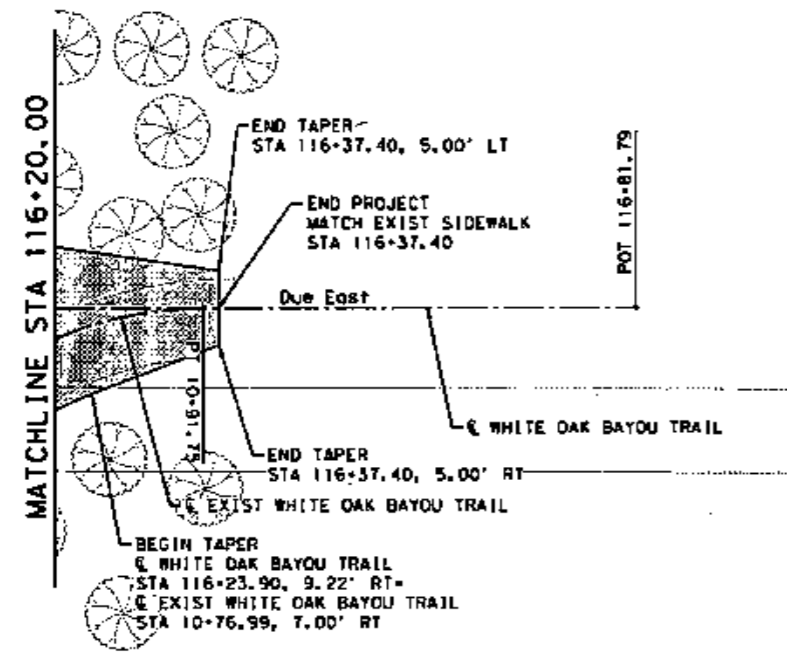
CITY OF HOUSTON
 HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

PLAN & PROFILE
 STA 116+20 TO END

SHEET 8 OF 8
 FOR THE CITY OF HOUSTON USE ONLY

ABS NUMBER	70825
N-105000-0010	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 20'	
CITY OF HOUSTON	
HIEN PHAM, P.E.	
SHEET NO. 23 OF 36	



EXIST PROP	53.87	53.89	53.66
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CITY OF HOUSTON
Houston Public Works

Street Paving Design Requirements
Figure 10.14 - Standard Bus Pad and Landings

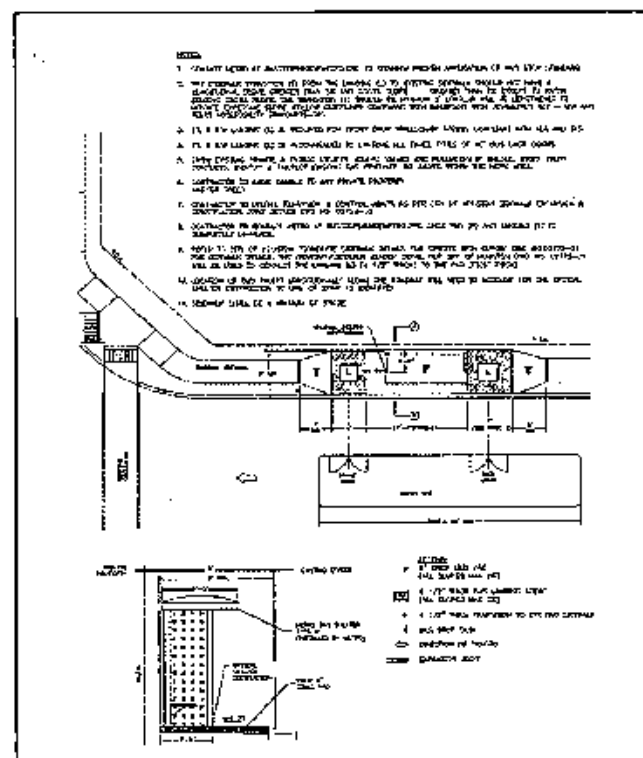
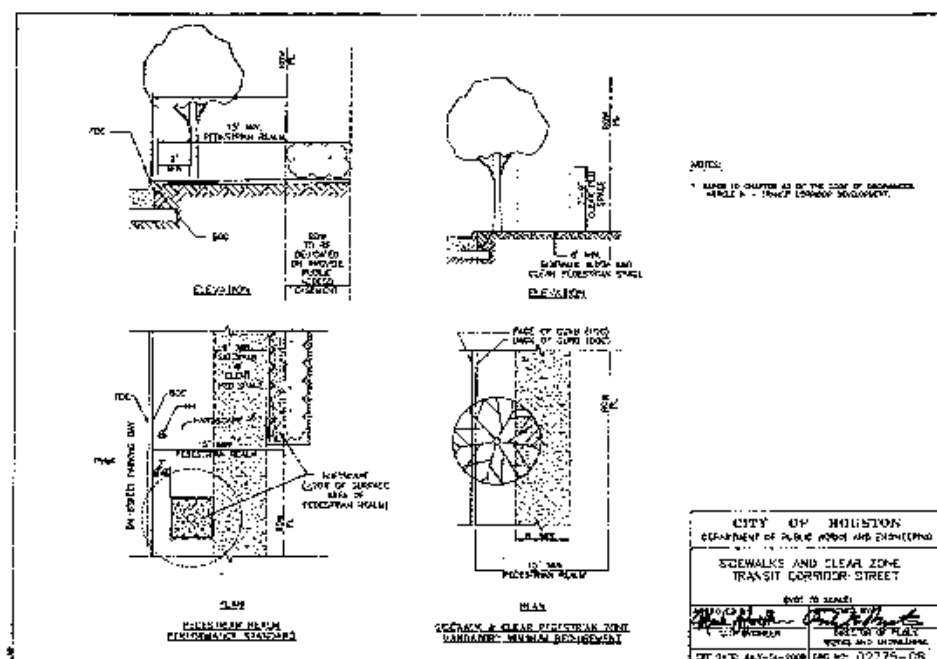
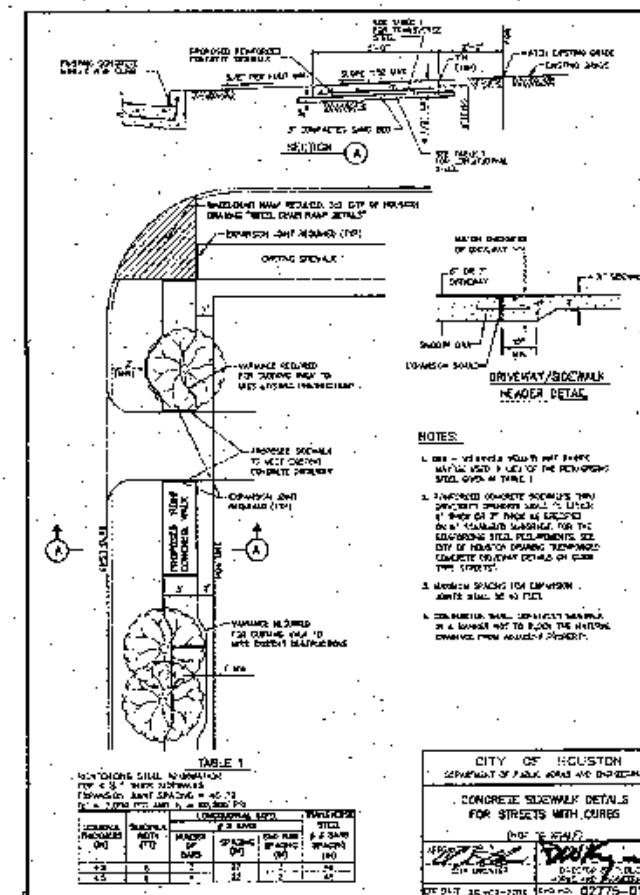


Figure 10.14 - STANDARD BUS PAD AND LANDINGS

16-52
07-01-2020



NO.	DATE	REVISIONS	APP.

JONES CARTER

STATE OF TEXAS
SETH D. SWARINGER
128178
LICENSED PROFESSIONAL ENGINEER
8/17/21

SURVEYED BY:
UNITED ENGINEERS, INC.
FB NO.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

ROADWAY STANDARDS

SHEET 7 OF 4

WBS NUMBER
N-T05000-0010-7

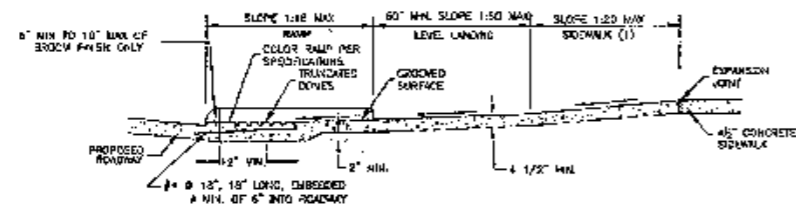
DRAWING SCALE
NTS

CITY OF HOUSTON PM
HIEK PHAM, P.E.

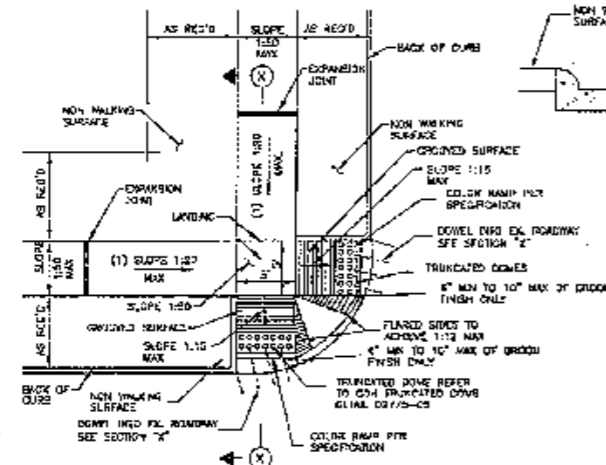
SHEET NO. 24 OF 38

70825

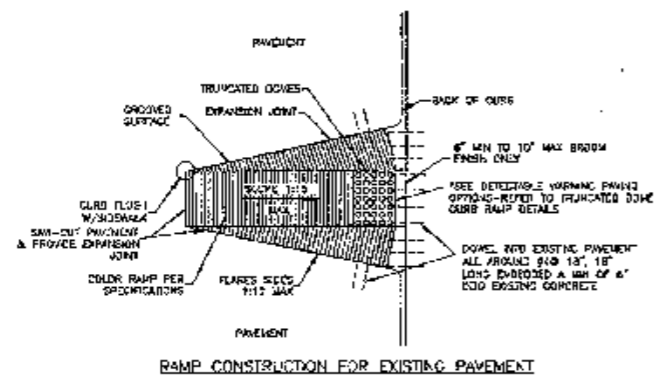
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SECTION X



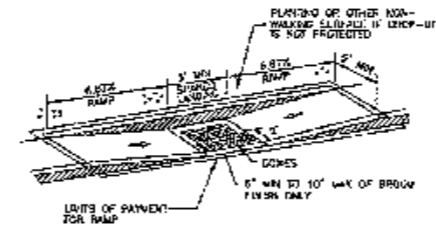
STREETS WITH NON-WALKING SURFACE BEHIND CURB N.T.S.



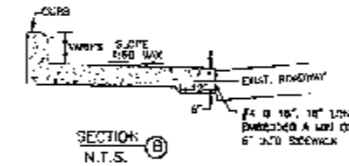
RAMP CONSTRUCTION FOR EXISTING PAVEMENT

WHEEL CHAIR RAMP DETAILS N.T.S.

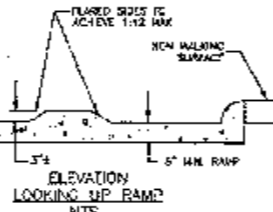
02775-03



DETAIL C

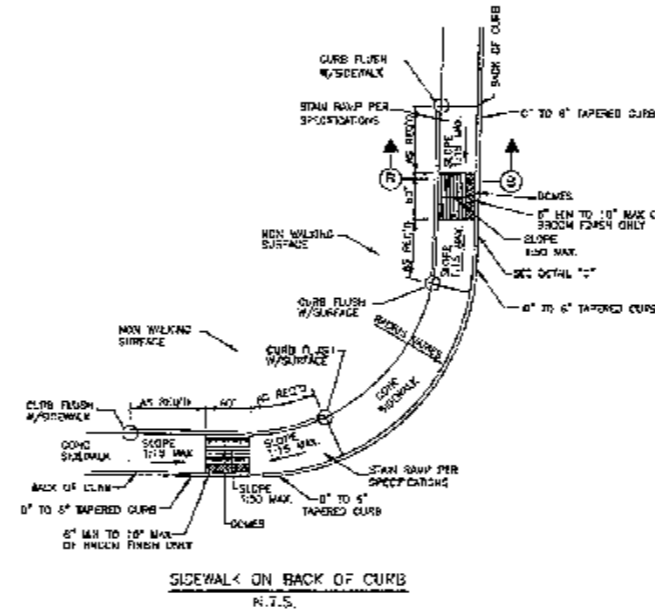


SECTION B N.T.S.



ELEVATION LOOKING UP RAMP N.T.S.

1. REPLACE EXISTING SIDEWALK FROM LEVEL LANDING AS NECESSARY TO ACHIEVE 1:20 SLOPE.
2. SLOPES GREATER THAN 1:20 BUT LESS THAN 1:15 (MAX) REQUIRE GROOVES AND COLORING.
3. BROOM FINISH IS MEASURED FROM FACE OF CURB.
4. ALL RAMP AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AGENCY STANDARDS (AS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTER REQUIREMENTS SHALL GOVERN.
5. CURB RAMP THAT ARE STEEPER THAN A 1:15 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON.



PARALLEL CURB RAMP N.T.S.

- NOTES:
1. ALL RAMP AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AGENCY STANDARDS (AS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTER REQUIREMENTS SHALL GOVERN.
 2. CURB RAMP THAT ARE STEEPER THAN A 1:15 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STREET PAVING AND SIDEWALK
02775-02 THROUGH 02775-03

APPROVED BY: *[Signature]*
CITY ENGINEER

APPROVED BY: *[Signature]*
CITY ENGINEER

EFFECTIVE DATE: 01-09-2020
FOR CITY OF HOUSTON USE ONLY

NO.	DATE	REVISIONS	APP.

JONES CARTER

STATE OF TEXAS
SETH D. SWARINGEN
128178
LICENSED PROFESSIONAL ENGINEER

SUPERVISED BY:
UNITED ENGINEERS, INC.
FB NO. *[Signature]* 8/17/21

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

ROADWAY STANDARDS

SHEET 2 OF 4

WBS NUMBER: N-105000-0010-7

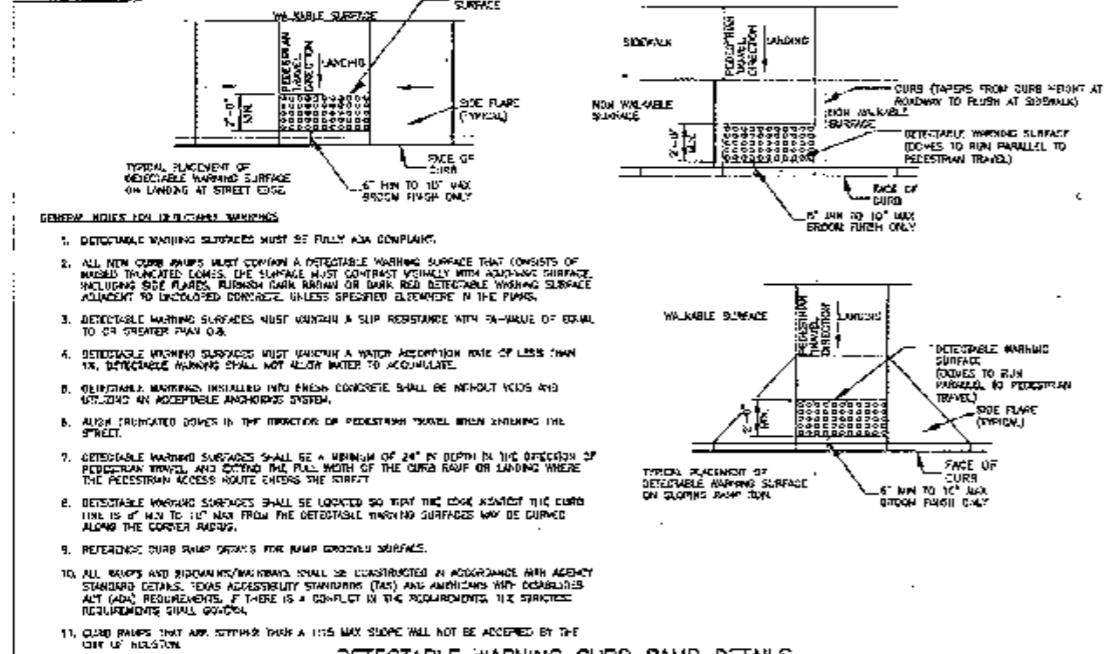
DRAWING SCALE: N.T.S.

CITY OF HOUSTON PUBLIC WORKS
HIEN PHAM, P.E.

SHEET NO. 25 OF 36

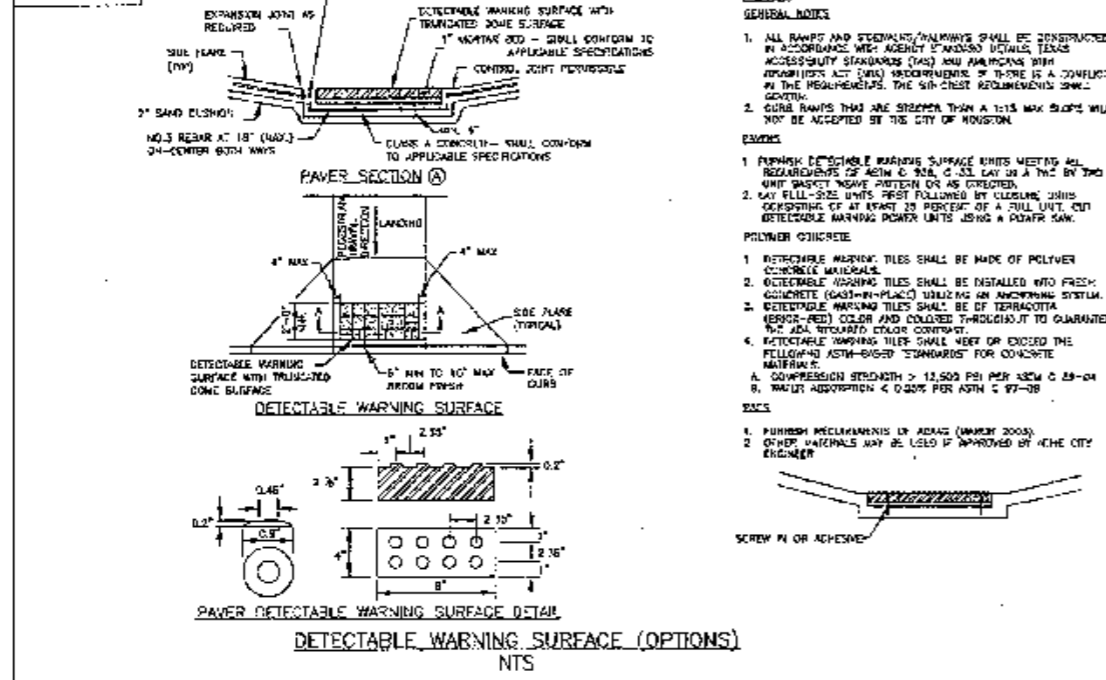
70825

02775-06



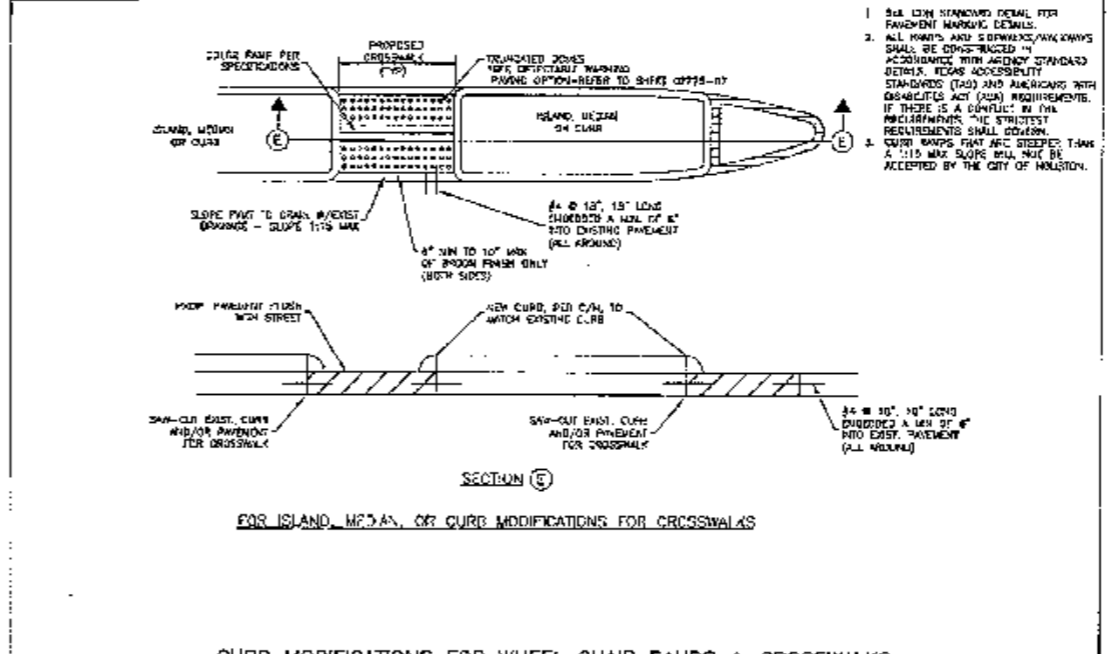
DETECTABLE WARNING CURB RAMP DETAILS
NTS

02775-07



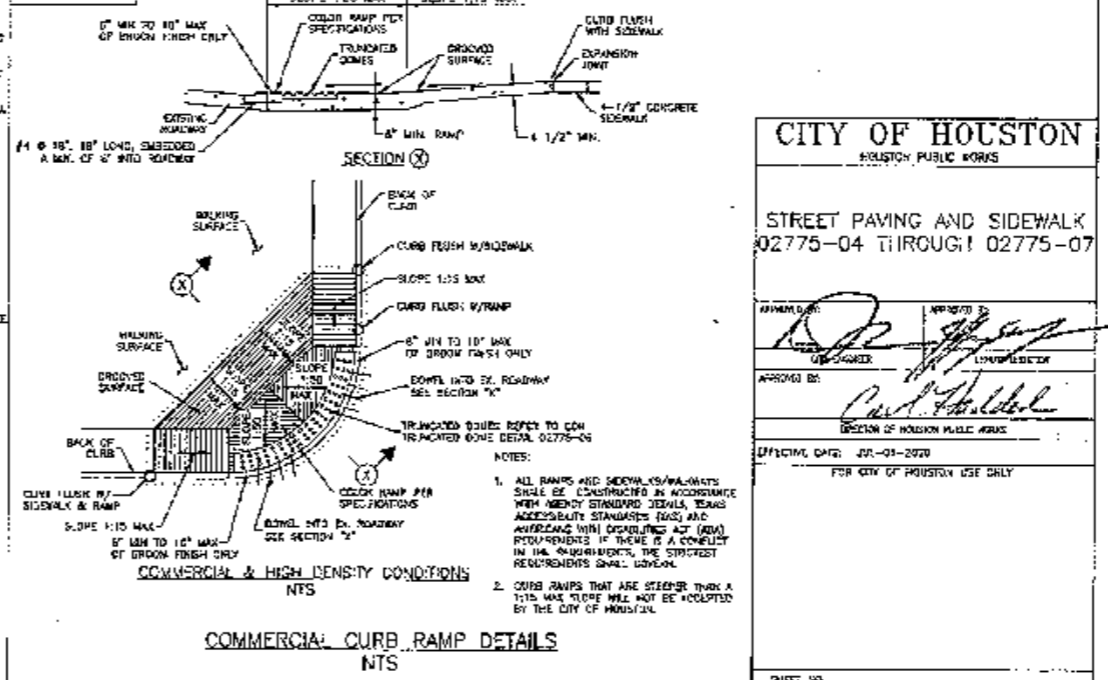
DETECTABLE WARNING SURFACE (OPTIONS)
NTS

02775-04



CURB MODIFICATIONS FOR WHEEL CHAIR RAMPS & CROSSWALKS
NTS

02775-05



COMMERCIAL CURB RAMP DETAILS
NTS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STREET PAVING AND SIDEWALK
02775-04 THROUGH 02775-07

APPROVED BY: *[Signature]*
DIRECTOR OF HOUSTON PUBLIC WORKS

EFFECTIVE DATE: JAN-01-2020
FOR CITY OF HOUSTON USE ONLY

WBS NUMBER: N-105000-0010-7
DRAWING SCALE: NTS
CITY OF HOUSTON PM: HIEN PHAM, P.E.
SHEET NO. 26 OF 38

NO.	DATE	REVISIONS	APP.

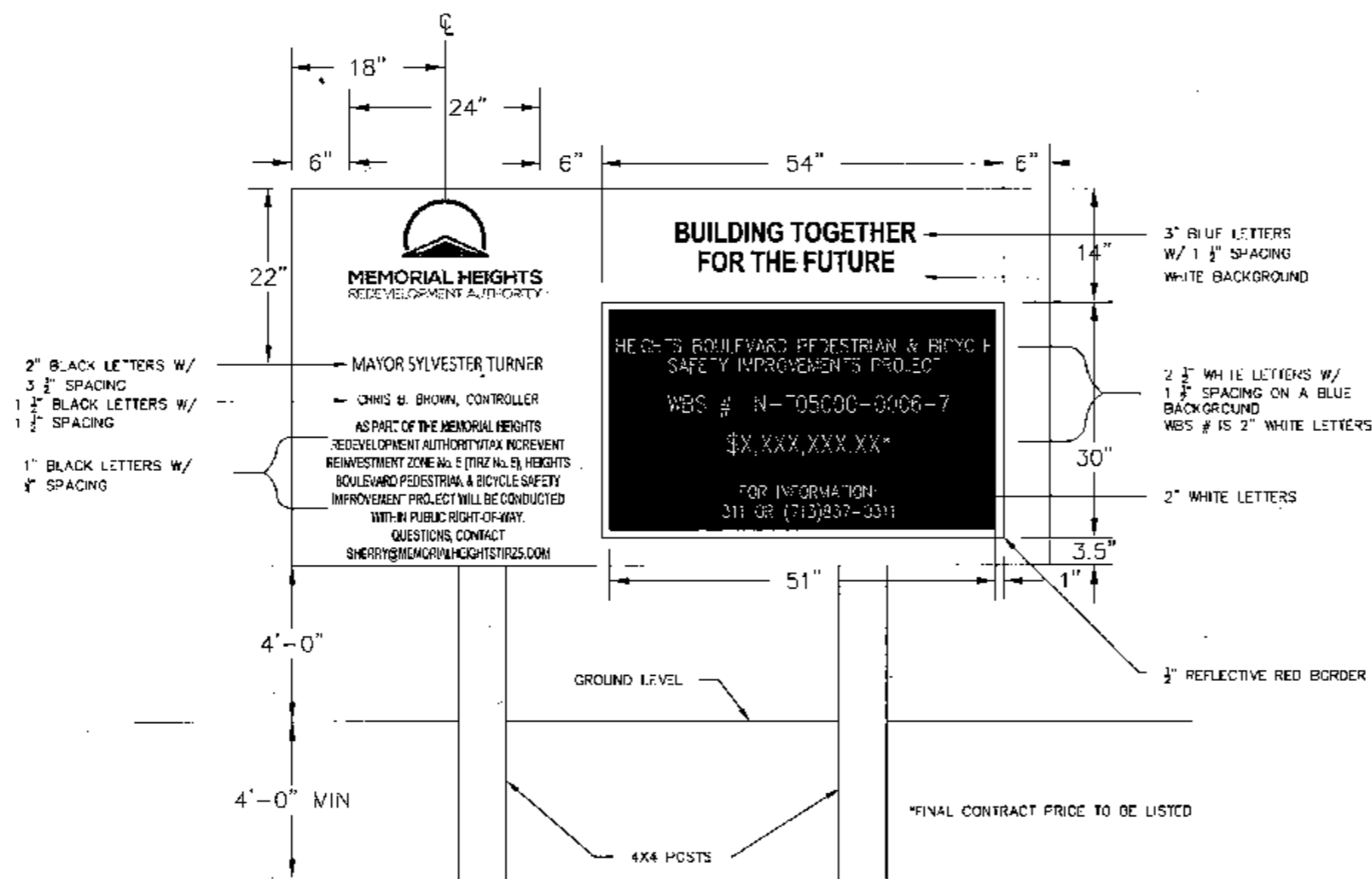
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT


ROADWAY STANDARDS

SHEET 3 OF 4

70825



NO.	DATE	REVISIONS	APP.



JONES CARTER

STATE OF TEXAS

SETH D. SWARINGER

128178

PROFESSIONAL ENGINEER

8/17/21

SURVEYED BY:
UNITED ENGINEERS, INC.
FB NO.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

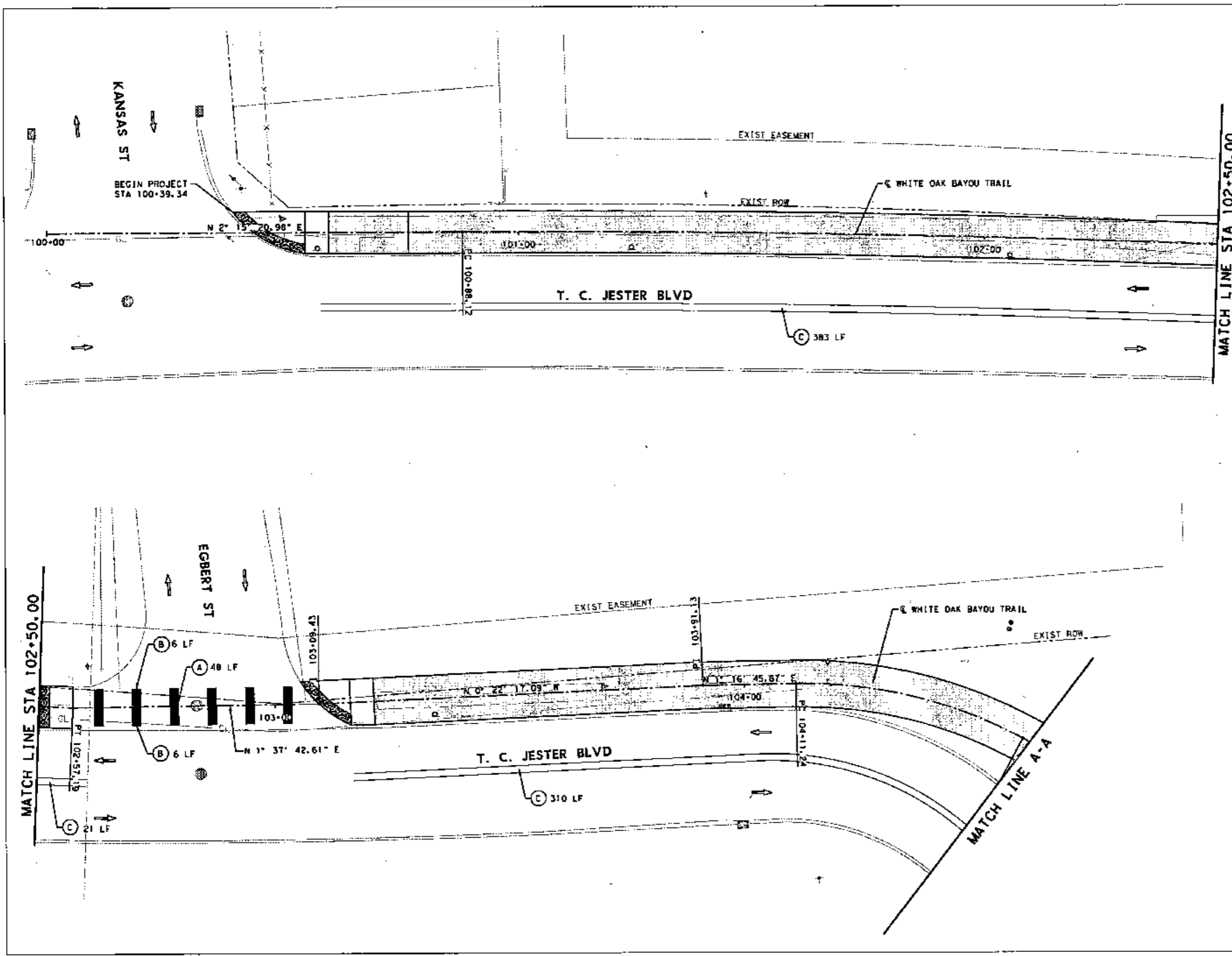
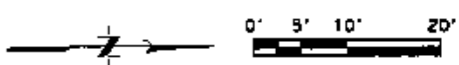
WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

ROADWAY STANDARDS

SHEET 4 OF 4

WBS NUMBER	N-705000-0010-7
DRAWING SCALE	NTS
CITY OF HOUSTON PM	HIEN PHAM, P.E.
SHEET NO. 27 OF 36	

70825



- LEGEND:**
- EXISTING ROW
 - ▭ PROPOSED PAVEMENT
 - Ⓐ GB24
 - Ⓑ WGG
 - Ⓒ YS4
 - ↔ EXIST TRAFFIC FLOW
 - ⊙ PROP SIGN
 - ⊙ EXIST SIGN

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Mike Brown Date 07-27-21
CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for ancillary verification.
Signature valid for six months.

Mike Brown Date 07-27-21
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
This signature verifies existing underground facilities - not to be used for ancillary verification.
Signature valid for six months.

N/A Date
Approved for AT&T Texas SMT underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

UNIKER CARTER

STATE OF TEXAS
SETH D. SWARINGEN
128178
LICENSED PROFESSIONAL ENGINEER
8/17/21

SURVEYED BY:
UNITEO ENGINEERS, INC.
PB NO.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

PAVEMENT MARKING PLAN

SHEET 1 OF 3

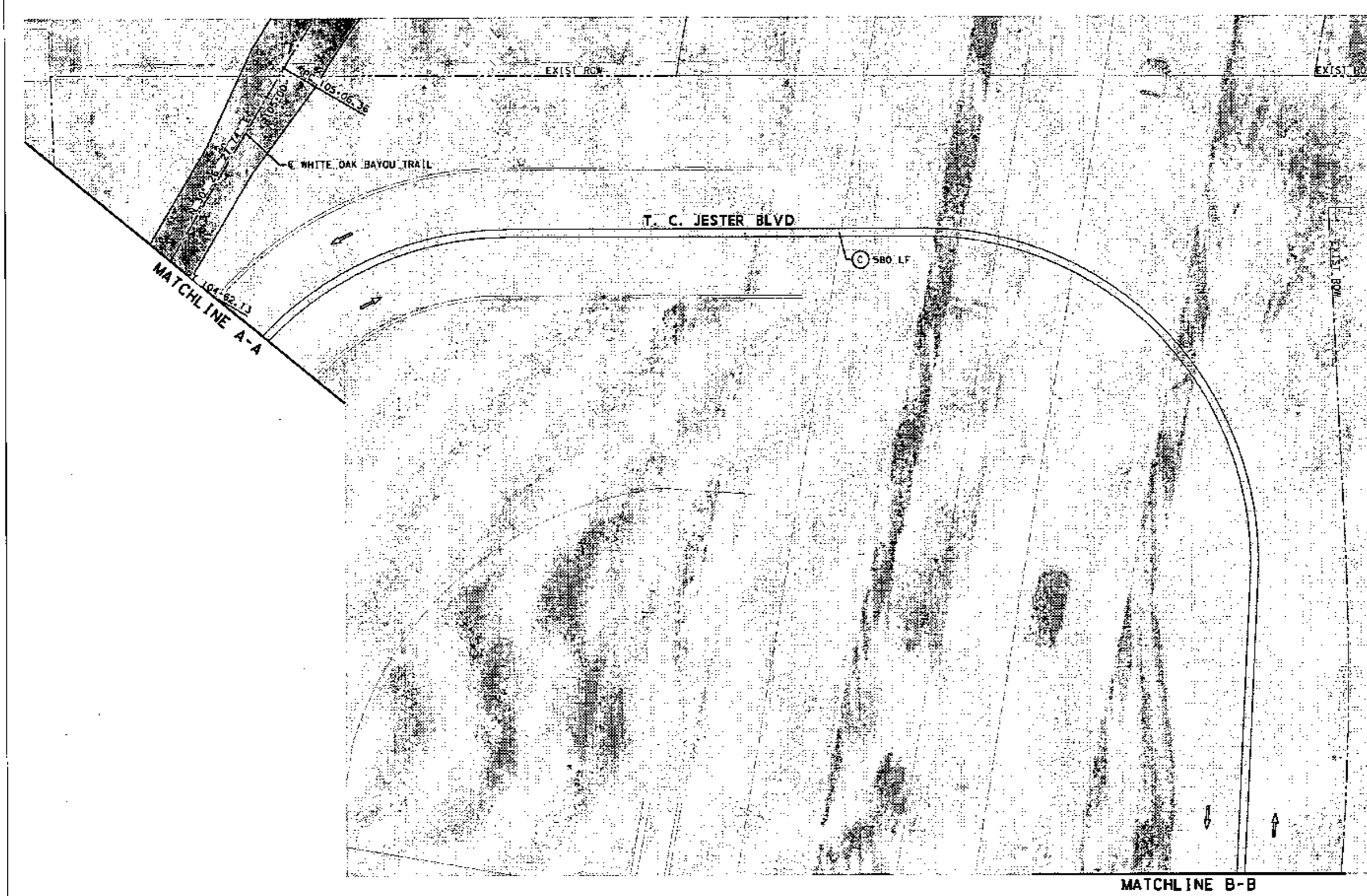
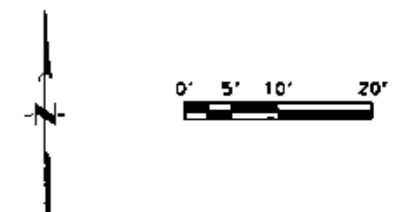
WBS NUMBER: N-705000-0010

DRAWING SCALE:
HORIZ. 1"=20'

CITY OF HOUSTON PROJECT:
HIER PHAM, P.E.

SHEET NO. 28 OF 36

70825



- LEGEND:**
- EXISTING ROW
 - ▬ PROPOSED PAVEMENT
 - Ⓐ CB24
 - Ⓑ W66
 - Ⓒ Y54
 - ↔ EXIST TRAFFIC FLOW
 - Ⓢ PROP SIGN
 - Ⓟ EXIST SIGN

NOTICE:
 FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG TO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES
Mike Brown — Date 07-27-21
 CenterPoint Energy natural gas utilities shown, 4006 service lines are not shown. This signature not to be used for conflict verification.
 Signature valid for six months.

Mike Brown — Date 07-27-21
 CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
 (This signature verifies existing underground facilities - not to be used for conflict verification)
 Signature valid for six months.

N/A — Date
 Approved for AT&T Texas SMT underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

JONES CARTER

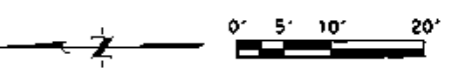
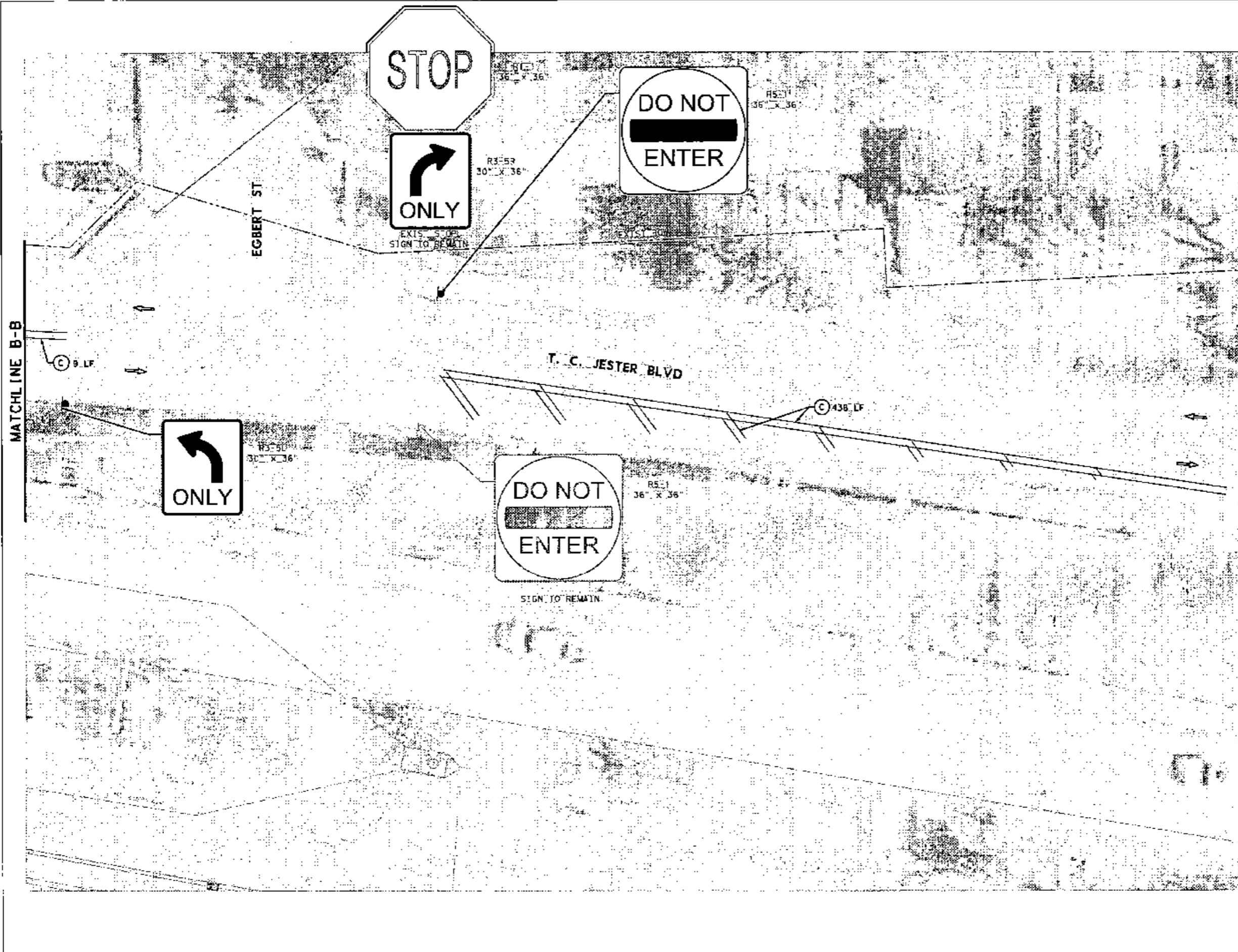
SURVEYED BY:
 UNITED ENGINEERS, INC.
 FB NO.

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS
 WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT
 PAVEMENT MARKING PLAN

WBS NUMBER	N-T05000-0010
DRAWING SCAL.	HORIZ. 1"=20'
CITY OF HOUSTON	SIEN PHAM, P.E.
SHEET NO.	29 OF 30

SHEET 2 OF 3
 FOR CITY OF HOUSTON USE ONLY
 70825

MATCHLINE B-B



- LEGEND:**
- EXISTING ROW
 - ▭ PROPOSED PAVEMENT
 - Ⓐ GB24
 - Ⓑ WGB
 - Ⓒ Y54
 - ⇨ EXIST TRAFFIC FLOW
 - PROP SIGN
 - EXIST SIGN

NOTICE:
 FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Mike Brown Date 07-27-21
 CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). If his signature not be used for conflict verification.
 Signature valid for six months.

Mike Brown Date 07-27-21
 CenterPoint Energy/UNDERGROUND Electrical Facilities verification ONLY.
 (This signature verifies existing underground facilities - not to be used for conflict verification)
 Signature valid for six months.

N/A Date _____
 Approved for AT&T Texas SNOT underground conduit facilities ONLY. Signature valid for one year.

NO.	DATE	REVISIONS	APP.

JONES BARTER

STATE OF TEXAS
SETH D. SWARINGEN
 128178
 LICENSED PROFESSIONAL ENGINEER
 8/17/21

SURVEYED BY:
 UNITED ENGINEERS, INC.
 FB NO. _____

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS

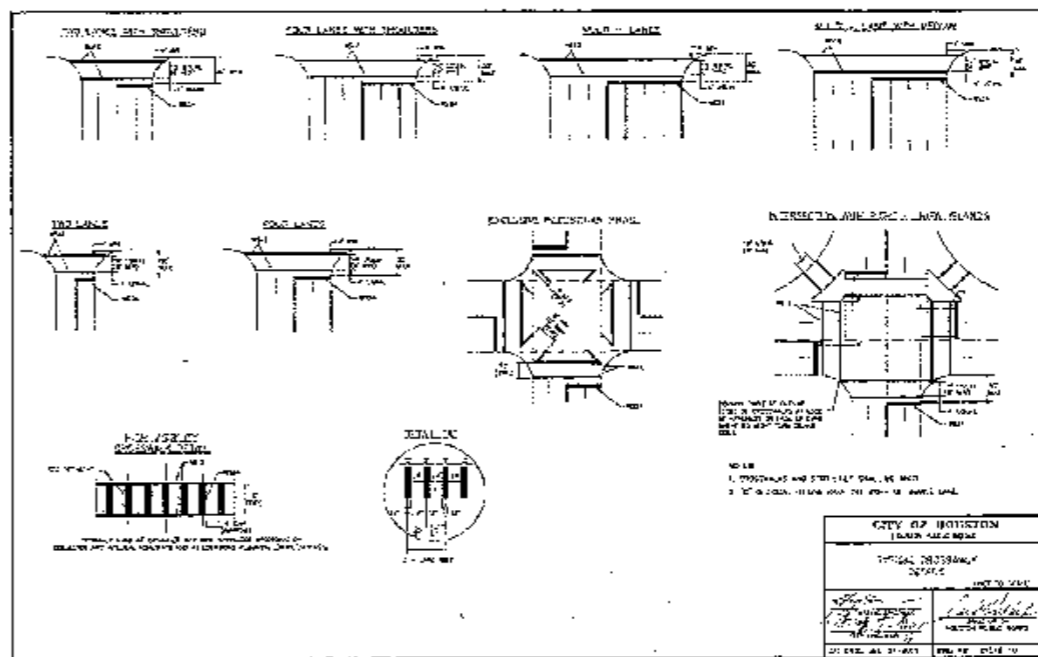
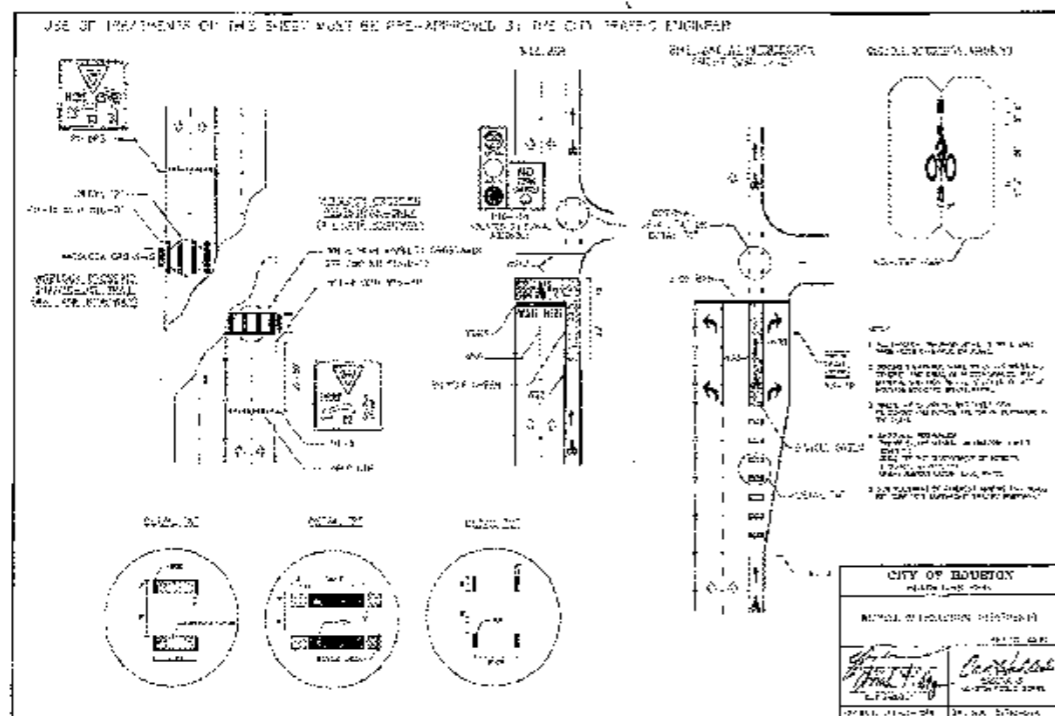
WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

PAVEMENT MARKING PLAN

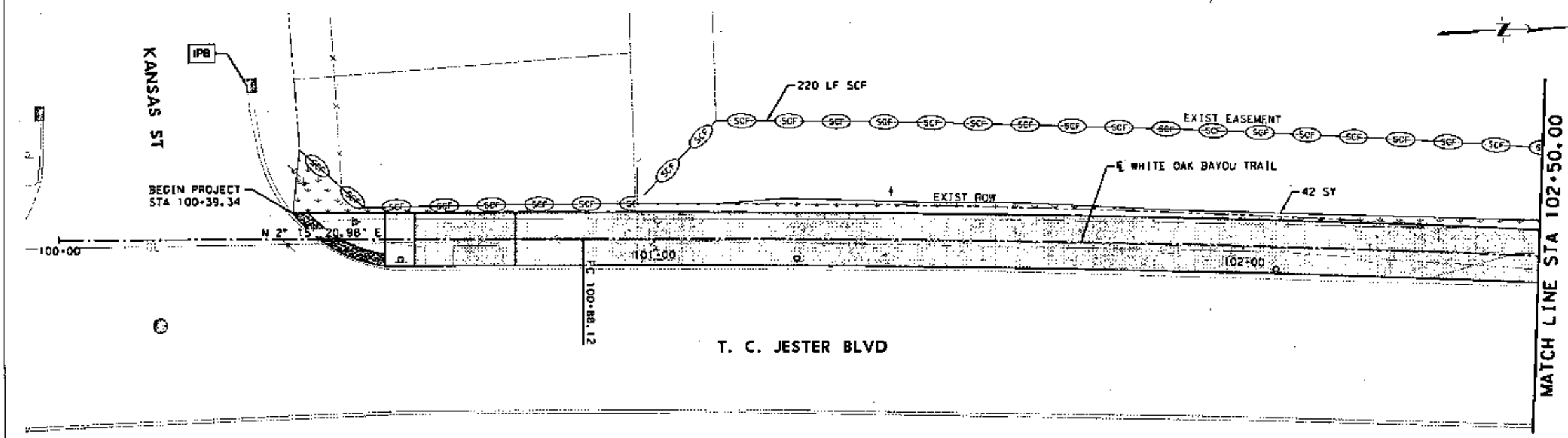
SHEET 3 OF 3

KBS NUMBER: N-T05000-0010-7
 DRAWING SCALE: HORIZ. 1"=20'
 CITY OF HOUSTON PM: HIEN PHAM, P.E.
 SHEET NO. 30 OF 36

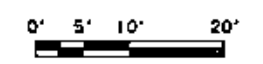
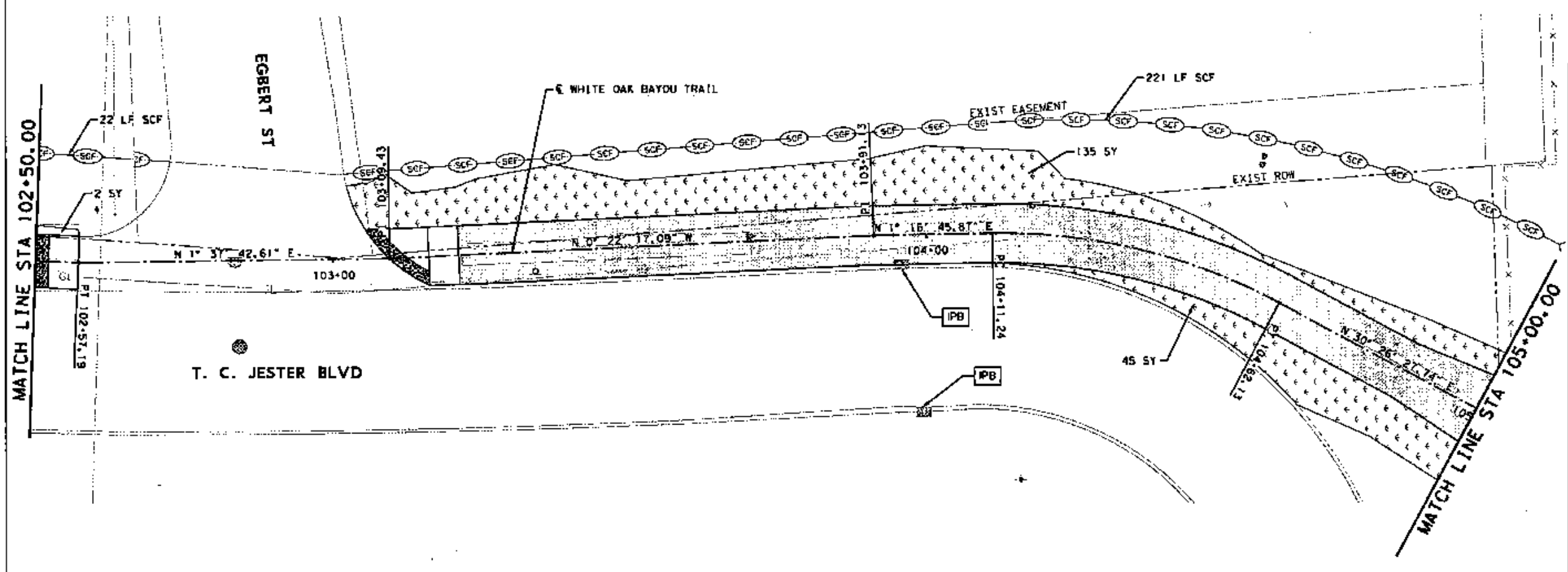
70825



NO.	DATE	REVISIONS	APP.
SURVEYED BY: UNITED ENGINEERS, INC. FB NO.		CITY OF HOUSTON HOUSTON PUBLIC WORKS WHITE OAK BAYOU TRAIL TO MEMORIAL PARK CONNECTION PROJECT PAVEMENT MARKING AND SIGNAGE PLAN DETAILS SHEET 1 OF 1 CITY OF HOUSTON USE ONLY	
WBS NUMBER N-T05000-0010-7		70825	
DRAWING SCALE MTS		CITY OF HOUSTON PM HIEN PHAM, P.E.	
SHEET NO. 31 OF 36		[Circular stamp with '70825' and other markings]	



- LEGEND:**
- SEDIMENT CONTROL FENCE
 - ROCK FILTER DAM (TY 3)
 - EXISTING ROW
 - PROPOSED PAVEMENT
 - INLET PROTECTION BARRIER
 - BLOCK SODDING



NO.	DATE	REVISIONS	APP.

JONES CARTER

SURVEYED BY:
UNITED ENGINEERS, INC.
FB NO.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

**STORM WATER POLLUTION
PREVENTION PLAN**
BEGIN TO STA 105+00

SHEET 1 OF 4

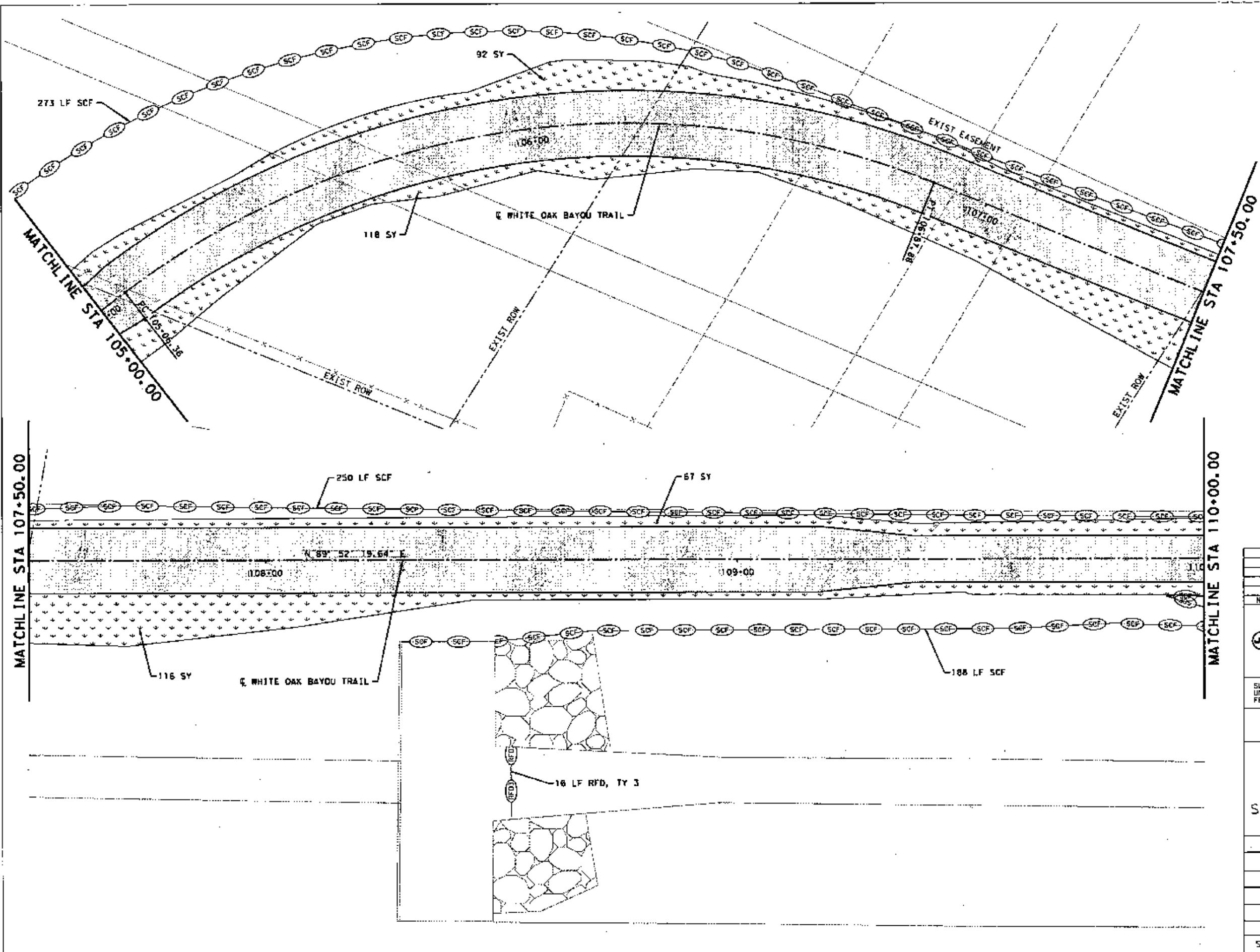
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DRAWING SCAL: HORIZ. 1"=20'

CITY OF HOUSTON PROJECT NO. 70825

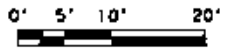
MIEN PHAM, P.E.

SHEET NO. 32 OF 36



LEGEND:

- SEDIMENT CONTROL FENCE
- ROCK FILTER DAM (TY 3)
- EXISTING ROW
- PROPOSED PAVEMENT
- INLET PROTECTION BARRIER
- BLOCK SODDING



NO.	DATE	REVISIONS	APP.

JONES CARTER

SURVEYED BY:
UNITE ENGINEERS, INC.
FB NO.

STATE OF TEXAS
SETH D. SWARINGEN
128178
PROFESSIONAL ENGINEER
8/17/21

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

STORM WATER POLLUTION
PREVENTION PLAN
STA 105+00 TO STA 110+00

SHEET 2 OF 4

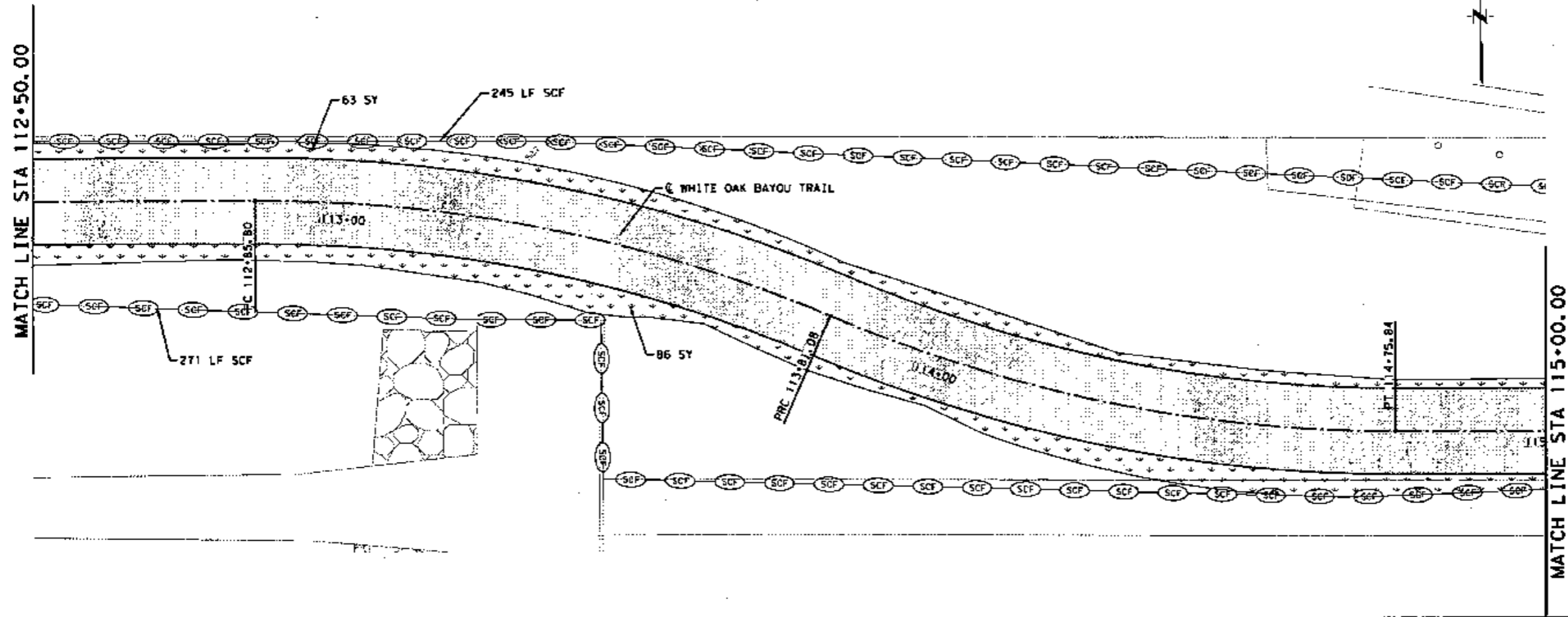
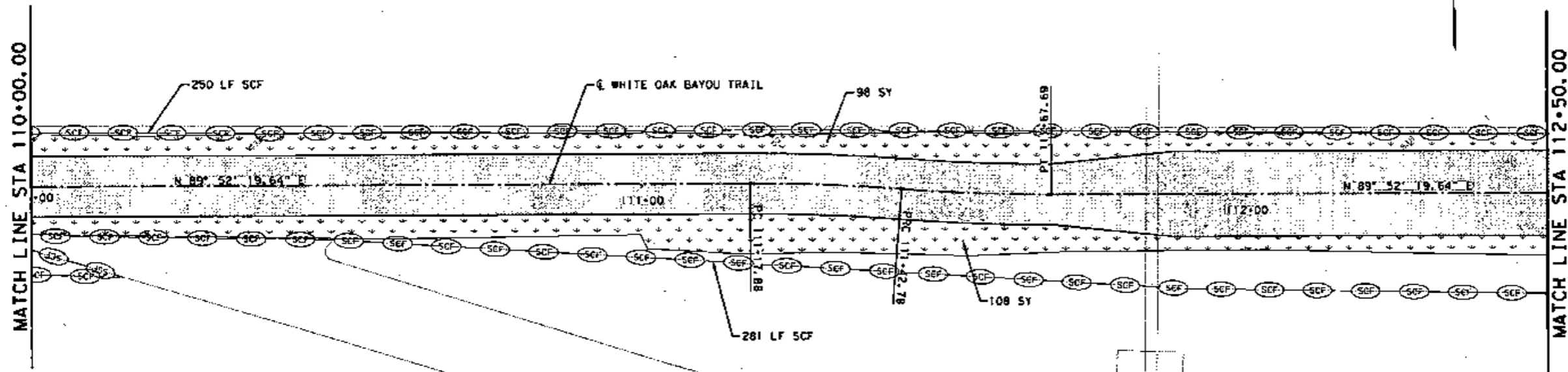
WBS NUMBER
N-T05000-0010-

DRAWING SCALE
HORIZ. 1"=20'

CITY OF HOUSTON PM
HIEN PHAM, P.E.

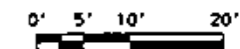
SHEET NO. 33 OF 36

70825



LEGEND:

- SEDIMENT CONTROL FENCE
- ROCK FILTER DAM (TY 3)
- EXISTING ROW
- PROPOSED PAVEMENT
- INLET PROTECTION BARRIER
- BLOCK SODDING



NO.	DATE	REVISIONS	APP.

JONES CARTER

SURVEYED BY:
UNITED ENGINEERS, INC.
FB NO.

STATE OF TEXAS
SETH D. SWARINGER
128178
PROFESSIONAL ENGINEER
8/17/21

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

STORM WATER POLLUTION
PREVENTION PLAN
STA 110+00 TO STA 115+00
SHEET 3 OF 4

NBS NUMBER
N-T05000-0010-7

DRAWING SCALE
HORIZ. 1"=20'







CITY OF HOUSTON PM
HIEN PHAM, P.E.

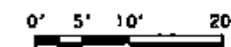
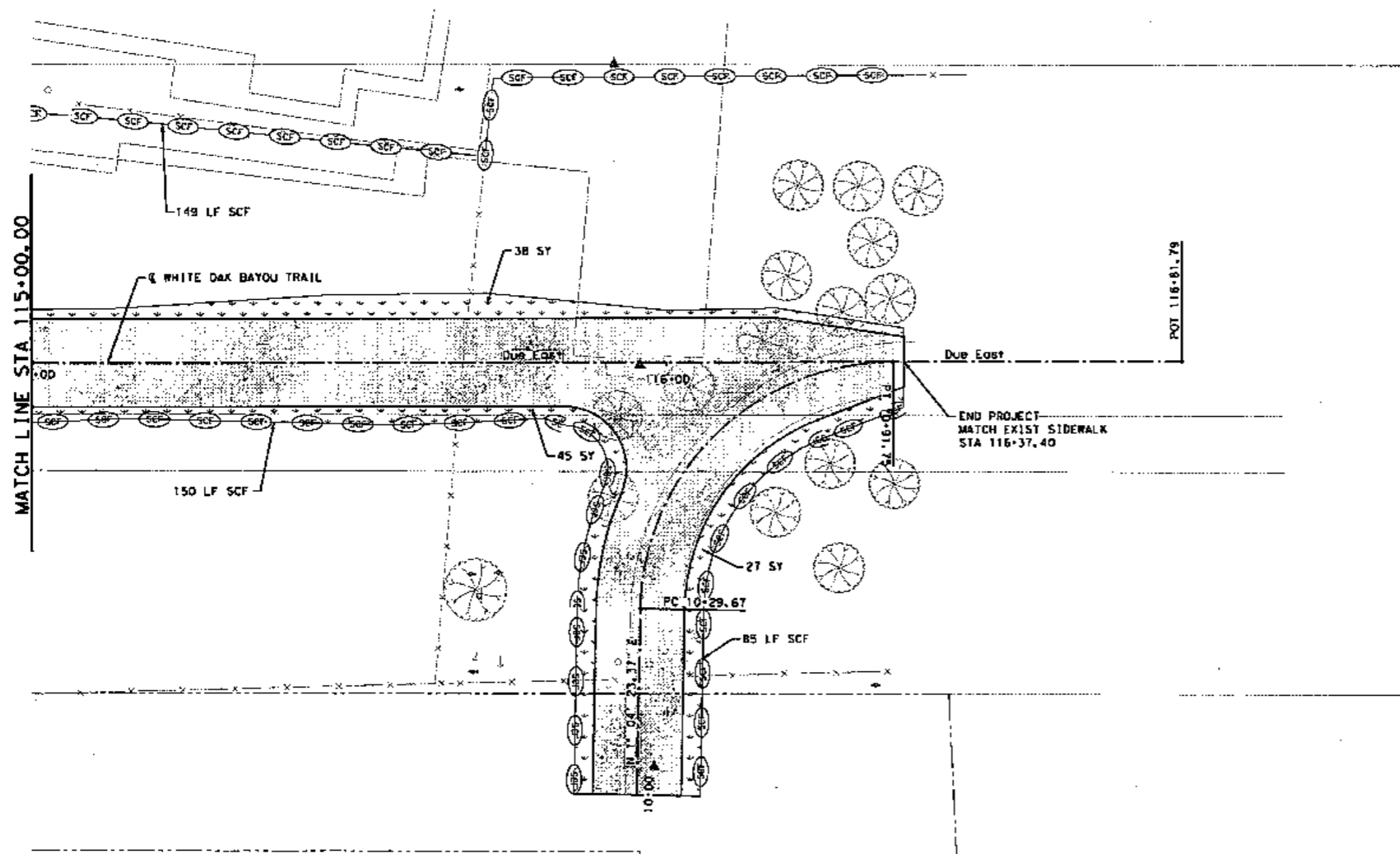
SHEET NO. 34 OF 36

70825



LEGEND:

-  SEDIMENT CONTROL FENCE
-  ROCK FILTER DAM (TY 3)
-  EXISTING ROW
-  PROPOSED PAVEMENT
-  INLET PROTECTION BARRIER
-  BLOCK SODDING



NO.	DATE	REVISIONS	APP.

JONES BARTER

STATE OF TEXAS
SETH D. SWARTZ
 128178
 LICENSE
 PROFESSIONAL ENGINEER
 8/17/21

SURVEYED BY:
 UNITED ENGINEERS, INC.
 FB NO.

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
 TO MEMORIAL PARK CONNECTION PROJECT

STORM WATER POLLUTION
 PREVENTION PLAN
 STA 115+00 TO END

SHEET 4 OF 4

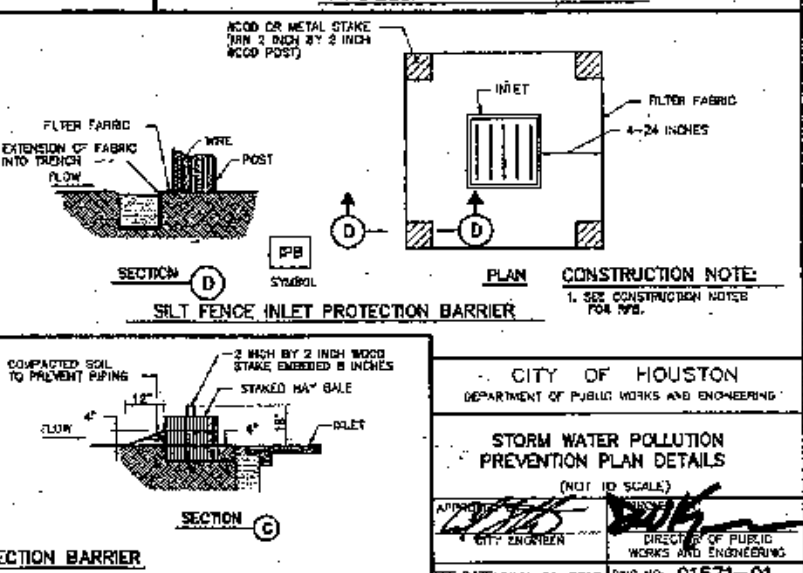
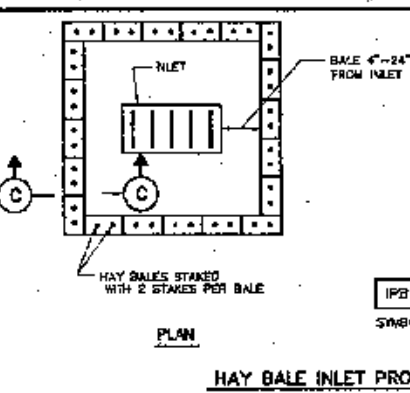
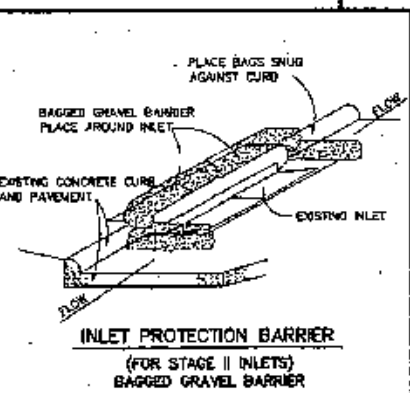
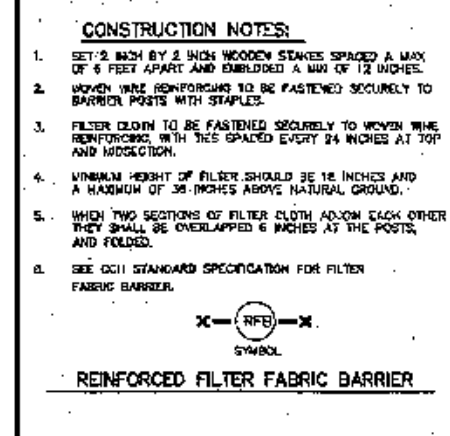
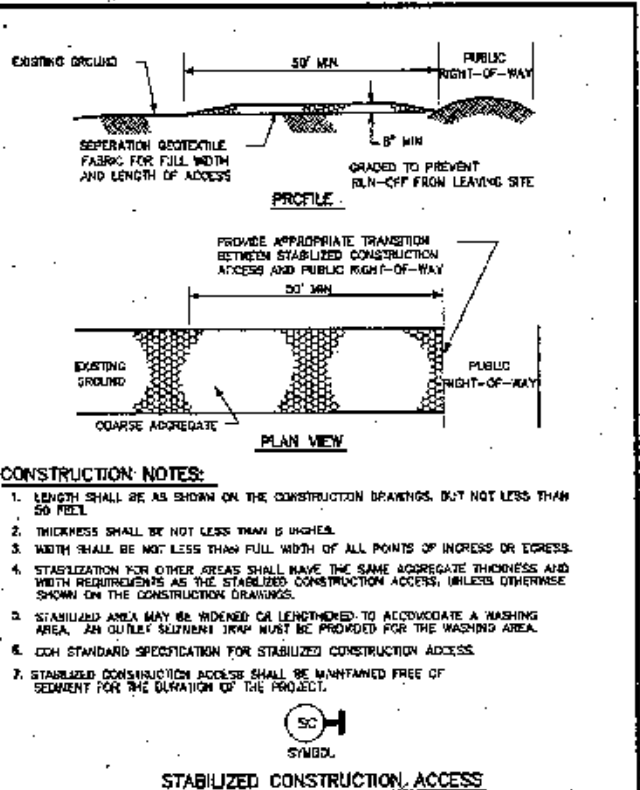
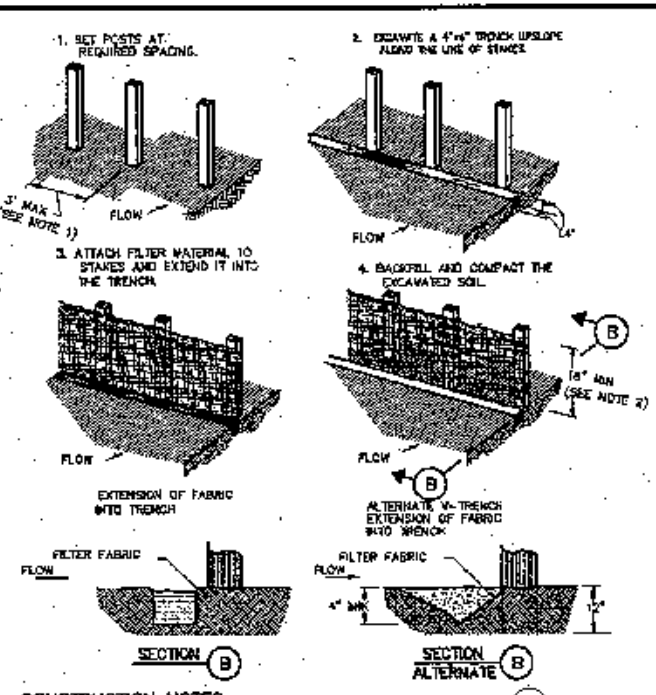
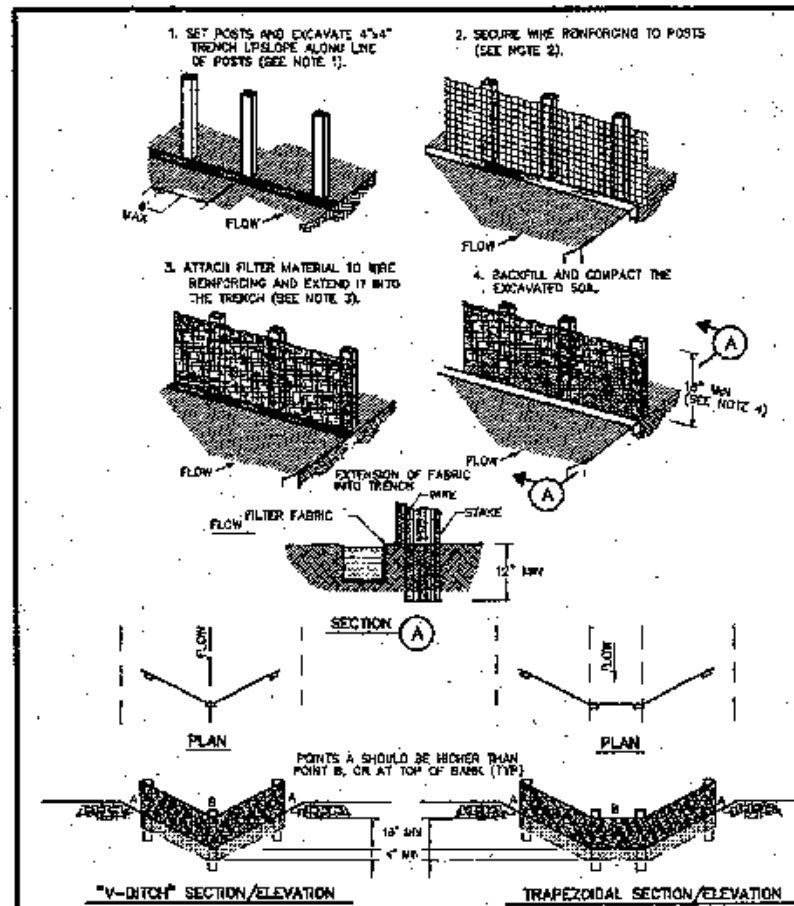
WBS NUMBER: N-105000-0010

DRAWING SCALE: HORIZ. 1"=20'

CITY OF HOUSTON
 MIEN PHAM, P.E.

SHEET NO. 35 OF 36

70825



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STORM WATER POLLUTION PREVENTION PLAN DETAILS
(NOT TO SCALE)

APPROVED: [Signature] CITY ENGINEER
DIRECTOR OF PUBLIC WORKS AND ENGINEERING

DATE: JULY-05-2010 DWG NO: 01571-01

NO.	DATE	REVISIONS	APP.

JONES & CARTER

STATE OF TEXAS
SETH D. SWARTZINGER
128178
LICENSED PROFESSIONAL ENGINEER

SURVEYED BY:
UNITED ENGINEERS, INC.
FB NO.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

WHITE OAK BAYOU TRAIL
TO MEMORIAL PARK CONNECTION PROJECT

SWPPP STANDARDS

SHEET 1 OF 1

NBS NUMBER
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