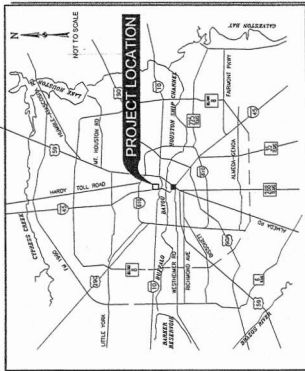


CITY OF HOUSTON

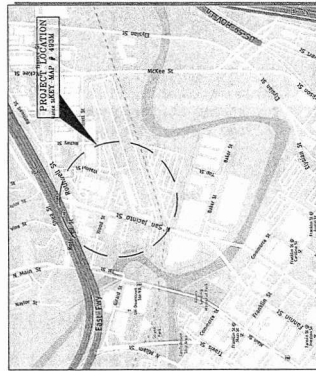
HOUSTON PUBLIC WORKS CAPITAL PROJECTS

WATER LINE REPLACEMENT NEW NORTH CANAL - BUFFALO BAYOU AREA

WBS NO. S-000700-A050-4



LOCATION MAP



VICINITY MAP
KEY MAP NO 493M
GIMS MAP No. 5457A

TOLR EASPR = NOT APPLICABLE

NOTE:
1. AT LEAST 48 HOURS BEFORE
EASPR IS TO BE PLACED OR
EASMENTS CALL THE LONE STAR
NOTIFICATION 713-223-4567



MAYOR
JOHN WHITMIRE

CONTROLLER
CHRIS HOLLINS

- COUNCIL MEMBERS**
- DISTRICT**
- AMY PECK DISTRICT A
 - FRED FLICKINGER DISTRICT E
 - JOAQUIN MARTINEZ DISTRICT I
 - TARSHA JACKSON DISTRICT B
 - TIFFANY D. THOMAS DISTRICT F
 - EDWARD POLLARD DISTRICT J
 - ABBBIE KAMIN DISTRICT C
 - MARY ANN HUFFMAN DISTRICT G
 - EDWARD POLLARD DISTRICT J
 - CAROLYN EVANS-SHABAZZ DISTRICT D
 - MARIO CASTILLO DISTRICT H
 - MARTHA CASTEX-TATUM DISTRICT K
- AT-LARGE**
- JULIAN MARTINEZ POSITION 1
 - WILLIE DAVIS POSITION 2
 - TWILA CARTER POSITION 3
 - LETTITIA PLUMMER POSITION 4
 - SALLIE ALCONR POSITION 5

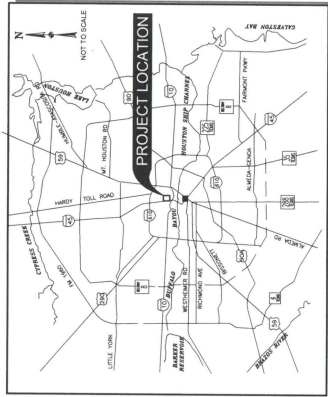
NO.	DATE	REVISION	APP.
 SES HORIZON CONSULTING ENGINEERS, INC. Civil Structural Transportation SURVEYED BY: JAG ENGINEERING, INC. FB NO. P-6317			
			
PARKS-FORESTRY DEPT.			
METRO			
HOUSTON WATER			
TRANSPORTATION & DRAINAGE OPERATIONS			
CAPITAL PROJECTS			
SURVEY			
FOR CITY OF HOUSTON USE ONLY			
CITY ENGINEER	DATE		
DIRECTOR OF HPW	DATE		
SHEET NO. 1 OF 70 SHEETS			

No.	Date	Revised

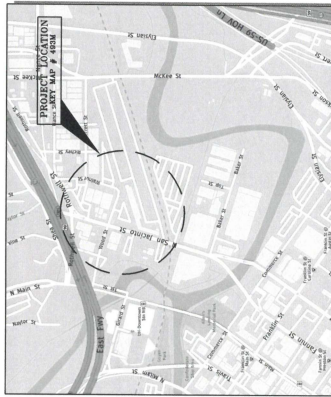
CITY OF HOUSTON

HOUSTON PUBLIC WORKS CAPITAL PROJECTS WATER LINE REPLACEMENT NEW NORTH CANAL - BUFFALO BAYOU AREA

WBS NO. S-000700-A050-4



LOCATION MAP



VICINITY MAP
KEY MAP NO 493M
GIMS MAP No. 5457A

TDLR EABPR - NOT APPLICABLE

NOTE:
1. AT LEAST 48 HOURS BEFORE
EXCAVATING IN STREET ROW OR
EASEMENTS CALL THE LONE STAR
NOTIFICATION 713-223-4567



MAYOR
JOHN WHITMIRE

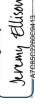
CONTROLLER
CHRIS HOLLINS

DISTRICT COUNCIL MEMBERS

AMY PECK DISTRICT A
TARSHA JACKSON DISTRICT B
FRED FLICKINGER DISTRICT C
TIFFANY D. THOMAS DISTRICT D
EDWARD POLLARD DISTRICT E
JOAQUIN MARTINEZ DISTRICT F
MARIO CASTILLO DISTRICT G
MARTHA CASTEX-TATUM DISTRICT H
MARTHA CASTEX-TATUM DISTRICT I
EDWARD POLLARD DISTRICT J
CAROLYN EVANS-SHABAZZ DISTRICT K

COUNCIL MEMBERS AT-LARGE

JULIAN MARTINEZ POSITION 1
WILLIE DAVIS POSITION 2
TWILA CARTER POSITION 3
LETITIA PLUMMER POSITION 4
SALLIE ALCORN POSITION 5

NO.	DATE	REVISION	APP.
 SES HORIZON CONSULTING ENGINEERS, INC. Civil Structural Transportation			
SURVEYED BY: JAG ENGINEERING, INC. FB NO. P-6317			
DESIGNED BY:  Jeremy Bricker CITY OF HOUSTON			
PARKS-FORESTRY DEPT.			
METRO			
DESIGNED BY:  Kim Hinkle HOUSTON WATER			
DESIGNED BY:  Colin Wright TRANSPORTATION & DRAINAGE OPERATIONS			
DESIGNED BY:  Tom Hensworth CAPITAL PROJECTS			
DESIGNED BY:  Jimmy Ellison SURVEY			
FOR CITY OF HOUSTON USE ONLY			
CITY ENGINEER	DATE		
 O. A. Hensworth	2/10/2026		
DIRECTOR OF HPW	DATE		
SHEET NO. 1 OF 70 SHEETS			

304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1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GENERAL & CONSTRUCTION NOTES

1. PROFILE VIEW DOES NOT REFLECT TRUE LENGTH OF PIPES. SEE PLAN VIEW FOR CLARIFICATION
2. ENTIRE PROJECT WILL BE CONSTRUCTED USING TRENCHLESS TECHNOLOGY (DIRECTIONAL DRILLING) METHOD EXCEPT AT THE IN LOCATION TO EXISTING WATER LINE.
3. THE CONTRACTOR IS REQUIRED TO CONTACT MR. JOHN VACHALA OF UWS DEVELOPERS (281-610-4623), A MINIMUM OF 72 HOURS PRIOR TO ANY PLANNED CONSTRUCTION WITHIN THE PROJECT AREA, TO COORDINATE CONSTRUCTION PLANNING, TRAFFIC CONTROL PLANNING, PROJECT STAGING AND DELIVERIES FOR INDICES OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND SHALL LIMIT CONSTRUCTION ACTIVITIES TO 200 LINEAR FEET OF CONSTRUCTION AREA AT ONE TIME.
4. THE CONTRACTOR IS REQUIRED TO COORDINATE THE RECONSTRUCTION OF EXISTING DRIVEWAYS WITH RESIDENTS, BUSINESS ETC. 72 HOURS PRIOR TO CONSTRUCTION. THE DRIVEWAYS MUST BE CONSTRUCTED IN HALVES TO PROVIDE CONTINUOUS USE ACCESS BY RESIDENTS AND BUSINESSES.
5. THE REMOVAL AND REPLACEMENT OF STREET INTERSECTIONS MUST BE CONSTRUCTED IN QUARTERS TO ALLOWING TRAFFIC USE FOR FLAGGERS OPERATION DURING WORKING HOURS AND YIELD TO INCOMING TRAFFIC SIGNING WHEN FLAGGERS ARE NOT PRESENT. REFER TO "TYPICAL CUL-DE-SAC & DEAD-END TRAFFIC CONTROL" PLAN SHEET FOR REQUIRED SIGN DETAILS.
6. STORM SEWER SHALL BE UNREINFORCED CONCRETE PIPE (C-76, CLASS III), AND SHALL BE INSTALLED, BEDDED, JOINTED AND BACKFILLED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-04, 02317-05, AND 02317-07 (JULY 2019) AS APPLICABLE, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
7. ALL STORM SEWER CONSTRUCTED IN SLOPELOT EASMENT SHALL BE R.C.P. (C-76, CLASS III) AND SHALL BE EMBEDDED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-04, 02317-05, AND 02317-07 AS APPLICABLE.
8. 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 CEMENTIC Y. STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.
9. ALL TRENCH BACKFILL SHALL BE IN 6" 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 COMPACTION TEST (ASTM D-698/ASTM D 1557).
10. CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINT CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.
11. ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24" AND LARGER R.C.P. (C-76, CLASS III).
12. ALL PROPOSED PIPE CUT-OUTS FROM MANHOLES AND INLET LEADS ARE TO BE PLUGGED WITH F BRICK WALLS UNLESS OTHERWISE NOTED.
13. 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 UTILITY PIPE AND BOX SHALL BE AT LEAST 24-INCHES FROM EXTERIOR OF THE STORM PIPE OR BOX TO THE EXTERIOR OF THE EXISTING OR PROPOSED PUBLIC OR PRIVATE UTILITY AND OTHER APPURTENANCES.
14. ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION 02096-ADJUSTING MANHOLES, INLETS, AND VALVE BOXES TO GRADE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF THIS WORK.
16. ALL DITCHES SHALL BE GRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL CUTS SHALL BE BACKFILLED, MECHANICALLY COMPACTED, AND FERTILIZED. ALL DISTURBED AREAS SHALL BE REGRADED, SEED, AND FERTILIZED.
17. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS
STREET & BRIDGE CONSTRUCTION NOTES

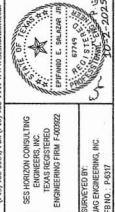
1. FILL AREAS ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND EACH COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY PRIOR TO INSTALLATION OF WATER LINE AND FILL AREA SHALL BE SEED AND FERTILIZED WITHIN 15 WORKING DAYS.
2. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURBED INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.
3. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.
4. EXISTING PAVEMENTS, CURBS, DRIVEWAYS, AND SIDEWALKS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY OF HOUSTON STANDARDS, WITH LATEST AMENDMENTS THERETO.
5. 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.
6. EXPOSED 1/2" OF REINFORCING STEEL AT PROPOSED SAVED 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 "PO R.O.C" OR EQUAL.
7. 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.
8. PRIOR TO STREET CONSTRUCTION, THE CONTRACTOR SHALL CONTACT HOUSTON PUBLIC WORKS AT (PHONE) 832-394-9579 AND COMPLY WITH ALL REQUIREMENTS FOR THE ISSUANCE OF NECESSARY PERMIT/WORK ORDERS FOR STREET CONSTRUCTION.
9. 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.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS
TRAFFIC NOTES

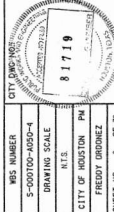
- CONTRACTOR OR OWNER SHALL SUBMIT TRAFFIC CONTROL PLANS WITH THE MOBILITY PERMIT APPLICATION. THE PLANS SHALL BE DRAWN TO SCALE AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS.
- THE GENERAL NOTES THAT SHALL BE INCLUDED ON THE TRAFFIC CONTROL PLAN CAN BE FOUND IN CHAPTER 15 (15 12 TRAFFIC CONTROL PLAN) OF THE CITY OF HOUSTONS (CITY) INFRASTRUCTURE DESIGN MANUAL (IDM). BELOW ARE SEVERAL KEY NOTES FROM THE IDM TO BE AWARE OF:
1. 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.
 2. NO WORK SHALL BE PERFORMED IN RESIDENTIAL AREAS FROM 7:00PM TO 7:00AM.
 3. CONTRACTOR SHALL MAINTAIN APPROVED NUMBER OF LANES OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION WORKING HOURS. TRAFFIC CONTROL PLANS SHALL INCLUDE ONE-WAY TRAFFIC CONTROL DEVICES TO MAINTAIN ONE-WAY TRAFFIC FLOW AND COMPLAINT PEDESTRIAN ACCESS TO BUS STOPS AND ADEQUATE BUS ACCESS TO THE BUS STOP.
 4. 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.
 5. CONTRACTOR SHALL SECURE ROADWAYSIDE/STREET/BICYCLE FACILITY PERMITS AS DESCRIBED IN CITY OF HOUSTON ORDINANCE, CHAPTER 40 - STREETS & SIDEWALKS, SECTION 40-361 FROM HOUSTON PERMITTING CENTER (MOBILITY PERMIT SECTION AT [HTTFS://GO.HOU.US/PERMITS](https://go.hou.us/permits)) BEFORE IMPLEMENTING THE TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL MAINTAIN ONE-WAY TRAFFIC FLOW AND COMPLAINT PEDESTRIAN ACCESS TO BUS STOPS AND ADEQUATE BUS ACCESS TO THE BUS STOP.
 6. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS AND BEGINNING CONSTRUCTION WORK, AND CONSTRUCTION SCHEDULE WITH THE APPLICATION.
 7. CONTRACTOR SHALL HAVE APPROVED TRAFFIC CONTROL PLAN AND PERMIT AT THE JOB SITE FOR INSPECTION AT ALL TIMES.
 8. 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 TWO (2) CONES SHALL BE PLACED AT EACH DRIVEWAY ACCESS POINT. UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE CITY OF HOUSTON.
 9. 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.



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DESIGNED BY
EDWARD S. SHALMAN
ENGINEERING FIRM # 50002
REGISTERED
JAN ENGINEERING INC
FIRM # 8437
01/01/2023



CITY OF HOUSTON
HOUSTON PUBLIC WORKS
DESIGN OF WATER LINE REPLACEMENT NEW
NORTH CANAL - BUFFALO BAYOU AREA
GENERAL & CONSTRUCTION
NOTES
CITY OF HOUSTON
8119
CITY OF HOUSTON
FREDDY GOMEZ
SHEET NO. 3 OF 70

CENTERPOINT ENERGY - GENERAL NOTES

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 PIPELINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5469 OR (713) 945-3037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT 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) 659-2111 OR (713) 207-4200.

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

WARNING: 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 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON 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 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) 207-5546 OR (713) 207-3168.

WARNING: UNDERGROUND ELECTRICAL UTILITIES

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.

- ALL INFORMATION CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTORS ARE RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERE TO. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPELINES, CONDUITS, AND STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES OR BY EXCAVATING IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES WHEN AND WHERE THEY FALL IN THE PATH OF CONSTRUCTION.
- THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 AND TEXAS ONE CALL AT 1-800-246-4545, FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION.
- THE LOCATION OF ANY CENTERPOINT ENERGY UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. THEY AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- ALL PROPOSED FACILITIES SHALL MAINTAIN 12' CLEAR FROM ALL EXISTING UTILITIES

AT&T TEXAS/SWBTF FACILITIES

1. THE LOCATIONS OF AT&T TEXAS/SWBTF 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.
2. THE CONTRACTOR SHALL CALL 1-800-344-8377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBTF FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T/SWBTF FACILITIES.
4. WHEN AT&T TEXAS/SWBTF 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.
5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBTF 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.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER KEVIN RAY AT (713) 814-1983 OR EMAIL HIM AT KRY896@ATT.COM IF CABLE LOCATE REQUESTS ARE NOT COMPLETED FOR OUR AT&T TEXAS/SWBTF FACILITIES.

NO.	DATE	REVISIONS

NOTICE
THIS DRAWING IS THE PROPERTY OF SES HORIZON CONSULTING ENGINEERS, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF SES HORIZON CONSULTING ENGINEERS, INC.

VERIFICATION OF PRIVATE UTILITY LINES
Mike Repose Date: 04/07/25
I hereby certify that the above information was obtained from a visual inspection of the site and is true and correct to the best of my knowledge and belief.
Mike Repose Date: 04/07/25
I hereby certify that the above information was obtained from a visual inspection of the site and is true and correct to the best of my knowledge and belief.
KAL LAMARQUE (SEAL) LAMARQUE

SES HORIZON CONSULTING ENGINEERS, INC.
10101 Southwest Freeway, Suite 400 Houston, Texas 77064
(713) 255-2251 FAX (713) 255-2252
www.seshorizon.com
04/01/25

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10101 Southwest Freeway, Suite 400 Houston, Texas 77064
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www.seshorizon.com
04/01/25

CITY OF HOUSTON
DESIGN OF WATER LINE REPLACEMENT NEW
NORTH CANAL - BUFFALO BAYOU AREA

UTILITY NOTES

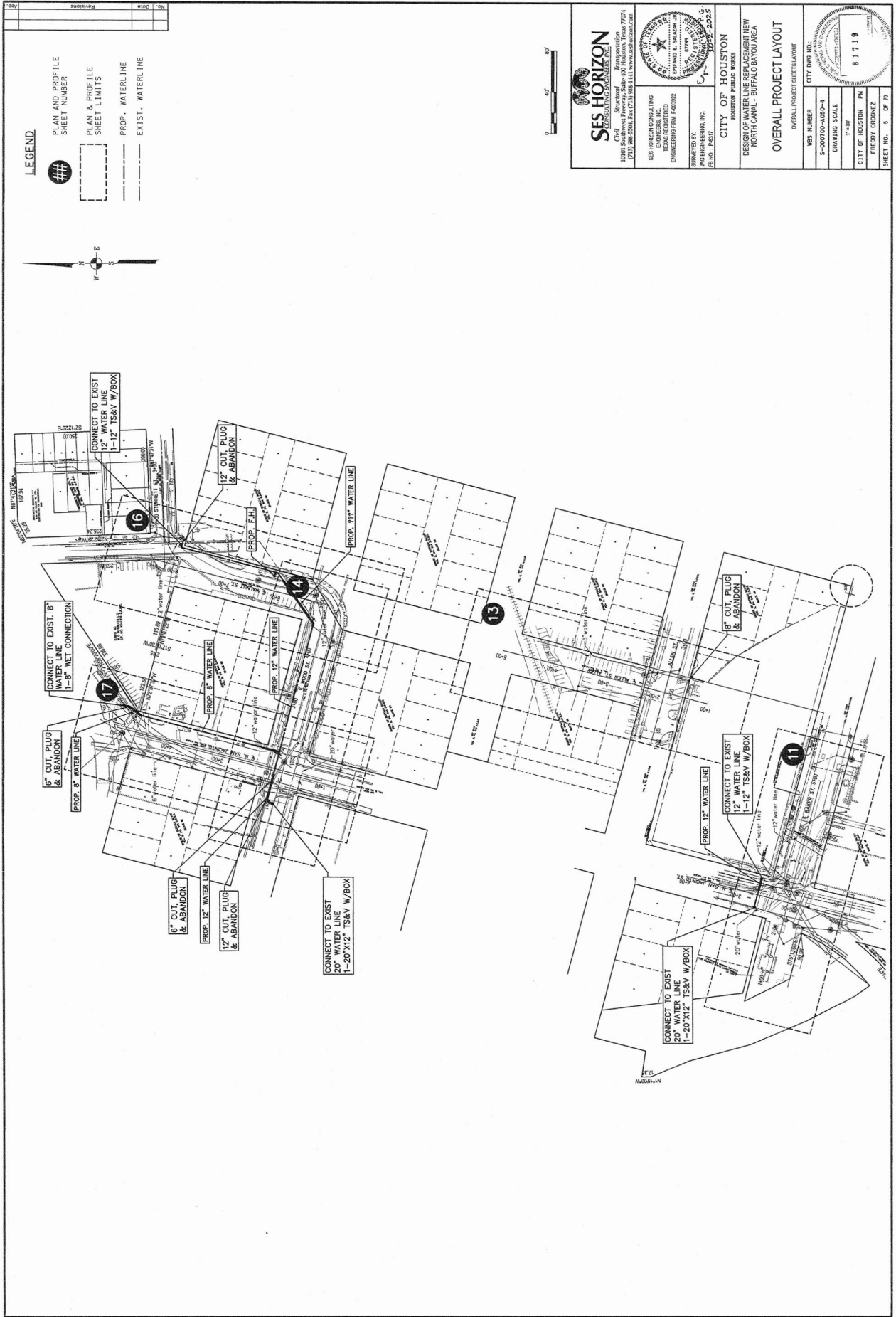
WIS NUMBER
5-00700-4000-4

DRAWING SCALE
N.T.S.

CITY OF HOUSTON
FREDDY GONZALEZ

SHEET NO. 4 OF 70

FILE NAME: P:\04-CALL 2025\October 02, 2025 1:19:13 PM
PLOTED ON: Thursday, October 02, 2025 1:19:13 PM
FOR REDUCED PLANS
Original scale in inches



LEGEND

- PLAN AND PROFILE
SHEET NUMBER
##
- PLAN & PROFILE
SHEET LIMITS

- PROP. WATER LINE

- EXIST. WATER LINE



SES HORIZON
CONSULTING ENGINEERS, INC.
1701 Southwest Freeway, Suite 400 Houston, Texas 77057
(713) 985-5504 Fax (713) 985-1441 www.seshorizon.com

SES HORIZON CONSULTING ENGINEERS, INC.
TEAM REGISTERED ENGINEERING FIRM #020322
SUPERVISOR
AND ENGINEERING INC.
(B) NO. 14337

CITY OF HOUSTON
HOUSTON PUBLIC WORKS
DESIGN OF WATER LINE REPLACEMENT NEW
NORTH CANAL - BUFFALO BAYOU AREA
OVERALL PROJECT LAYOUT
OVERALL PROJECT SHEET LAYOUT

WIS NUMBER	CITY EMP. NO.
5-000700-4050-4	
DRAWING SCALE	
1"=80'	
CITY OF HOUSTON	PM
FREDDY ORDOÑEZ	
SHEET NO. 5	OF 75

81719

SHEET NO. 6 OF 70

FOUND BOUNDARY MONUMENTS STATION AND OFFSET									
PT/NO.		DESIGN CENTERLINE		IN. (N. SAN JACINTO ST.)		DESCRIPTION		FIND OUT X	
PT/NO.	STATION	DESIGN CENTERLINE	STATION	DESIGN CENTERLINE	STATION	DESIGN CENTERLINE	STATION	DESIGN CENTERLINE	STATION
2185	1+13.12	-45.65	2186	1+13.12	-45.65	2187	1+13.12	-45.65	2188
2189	1+14.12	-41.47	2190	1+14.12	-41.47	2191	1+14.12	-41.47	2192
2193	1+15.12	-37.29	2194	1+15.12	-37.29	2195	1+15.12	-37.29	2196
2197	1+16.12	-33.11	2198	1+16.12	-33.11	2199	1+16.12	-33.11	2200
2201	1+17.12	-28.93	2202	1+17.12	-28.93	2203	1+17.12	-28.93	2204
2205	1+18.12	-24.75	2206	1+18.12	-24.75	2207	1+18.12	-24.75	2208
2209	1+19.12	-20.57	2210	1+19.12	-20.57	2211	1+19.12	-20.57	2212
2213	1+20.12	-16.39	2214	1+20.12	-16.39	2215	1+20.12	-16.39	2216
2217	1+21.12	-12.21	2218	1+21.12	-12.21	2219	1+21.12	-12.21	2220
2221	1+22.12	-8.03	2222	1+22.12	-8.03	2223	1+22.12	-8.03	2224
2225	1+23.12	-3.85	2226	1+23.12	-3.85	2227	1+23.12	-3.85	2228
2229	1+24.12	0.33	2230	1+24.12	0.33	2231	1+24.12	0.33	2232
2233	1+25.12	4.51	2234	1+25.12	4.51	2235	1+25.12	4.51	2236
2237	1+26.12	8.69	2238	1+26.12	8.69	2239	1+26.12	8.69	2240
2241	1+27.12	12.87	2242	1+27.12	12.87	2243	1+27.12	12.87	2244
2245	1+28.12	17.05	2246	1+28.12	17.05	2247	1+28.12	17.05	2248
2249	1+29.12	21.23	2250	1+29.12	21.23	2251	1+29.12	21.23	2252
2253	1+30.12	25.41	2254	1+30.12	25.41	2255	1+30.12	25.41	2256
2257	1+31.12	29.59	2258	1+31.12	29.59	2259	1+31.12	29.59	2260
2261	1+32.12	33.77	2262	1+32.12	33.77	2263	1+32.12	33.77	2264
2265	1+33.12	37.95	2266	1+33.12	37.95	2267	1+33.12	37.95	2268
2269	1+34.12	42.13	2270	1+34.12	42.13	2271	1+34.12	42.13	2272
2273	1+35.12	46.31	2274	1+35.12	46.31	2275	1+35.12	46.31	2276
2277	1+36.12	50.49	2278	1+36.12	50.49	2279	1+36.12	50.49	2280
2281	1+37.12	54.67	2282	1+37.12	54.67	2283	1+37.12	54.67	2284
2285	1+38.12	58.85	2286	1+38.12	58.85	2287	1+38.12	58.85	2288
2289	1+39.12	63.03	2290	1+39.12	63.03	2291	1+39.12	63.03	2292
2293	1+40.12	67.21	2294	1+40.12	67.21	2295	1+40.12	67.21	2296
2297	1+41.12	71.39	2298	1+41.12	71.39	2299	1+41.12	71.39	2300
2301	1+42.12	75.57	2302	1+42.12	75.57	2303	1+42.12	75.57	2304
2305	1+43.12	79.75	2306	1+43.12	79.75	2307	1+43.12	79.75	2308
2309	1+44.12	83.93	2310	1+44.12	83.93	2311	1+44.12	83.93	2312
2313	1+45.12	88.11	2314	1+45.12	88.11	2315	1+45.12	88.11	2316
2317	1+46.12	92.29	2318	1+46.12	92.29	2319	1+46.12	92.29	2320
2321	1+47.12	96.47	2322	1+47.12	96.47	2323	1+47.12	96.47	2324
2325	1+48.12	100.65	2326	1+48.12	100.65	2327	1+48.12	100.65	2328
2329	1+49.12	104.83	2330	1+49.12	104.83	2331	1+49.12	104.83	2332
2333	1+50.12	109.01	2334	1+50.12	109.01	2335	1+50.12	109.01	2336
2337	1+51.12	113.19	2338	1+51.12	113.19	2339	1+51.12	113.19	2340
2341	1+52.12	117.37	2342	1+52.12	117.37	2343	1+52.12	117.37	2344
2345	1+53.12	121.55	2346	1+53.12	121.55	2347	1+53.12	121.55	2348
2349	1+54.12	125.73	2350	1+54.12	125.73	2351	1+54.12	125.73	2352
2353	1+55.12	129.91	2354	1+55.12	129.91	2355	1+55.12	129.91	2356
2357	1+56.12	134.09	2358	1+56.12	134.09	2359	1+56.12	134.09	2360
2361	1+57.12	138.27	2362	1+57.12	138.27	2363	1+57.12	138.27	2364
2365	1+58.12	142.45	2366	1+58.12	142.45	2367	1+58.12	142.45	2368
2369	1+59.12	146.63	2370	1+59.12	146.63	2371	1+59.12	146.63	2372
2373	1+60.12	150.81	2374	1+60.12	150.81	2375	1+60.12	150.81	2376
2377	1+61.12	154.99	2378	1+61.12	154.99	2379	1+61.12	154.99	2380
2381	1+62.12	159.17	2382	1+62.12	159.17	2383	1+62.12	159.17	2384
2385	1+63.12	163.35	2386	1+63.12	163.35	2387	1+63.12	163.35	2388
2389	1+64.12	167.53	2390	1+64.12	167.53	2391	1+64.12	167.53	2392
2393	1+65.12	171.71	2394	1+65.12	171.71	2395	1+65.12	171.71	2396
2397	1+66.12	175.89	2398	1+66.12	175.89	2399	1+66.12	175.89	2400
2401	1+67.12	180.07	2402	1+67.12	180.07	2403	1+67.12	180.07	2404
2405	1+68.12	184.25	2406	1+68.12	184.25	2407	1+68.12	184.25	2408
2409	1+69.12	188.43	2410	1+69.12	188.43	2411	1+69.12	188.43	2412
2413	1+70.12	192.61	2414	1+70.12	192.61	2415	1+70.12	192.61	2416
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2493	1+90.12	276.21	2494	1+90.12	276.21	2495	1+90.12	276.21	2496
2497	1+91.12	280.39	2498	1+91.12	280.39	2499	1+91.12	280.39	2500
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2537	1+101.12	322.19	2538	1+101.12	322.19	2539	1+101.12	322.19	2540
2541	1+102.12	326.37	2542	1+102.12	326.37	2543	1+102.12	326.37	2544
2545	1+103.12	330.55	2546	1+103.12	330.55	2547	1+103.12	330.55	2548
2549	1+104.12	334.73	2550	1+104.12	334.73	2551	1+104.12	334.73	2552
2553	1+105.12	338.91	2554	1+105.12	338.91	2555	1+105.12	338.91	2556
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2585	1+113.12	372.35	2586	1+113.12	372.35	2587	1+113.12	372.35	2588
2589	1+114.12	376.53	2590	1+114.12	376.53	2591	1+114.12	376.53	2592
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2597	1+116.12	384.89	2598	1+116.12	384.89	2599	1+116.12	384.89	2599
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2605	1+118.12	393.25	2606	1+118.12	393.25	2607	1+118.12	393.25	2608
2609	1+119.12	397.43	2610	1+119.12	397.43	2611	1+119.12	397.43	2612
2613	1+120.12	401.61	2614	1+120.12	401.61	2615	1+120.12	401.61	2616
2617	1+121.12	405.79	2618	1+121.12	405.79	2619	1+121.12	405.79	2620
2621	1+122.12	409.97	2622	1+122.12	409.97	2623	1+122.12	409.97	2624
2625	1+123.12	414.15	2626	1+123.12	414.15	2627	1+123.12	414.15	2628
2629	1+124.12	418.33	2630	1+124.12	418.33	2631	1+124.12	418.33	2632
2633	1+125.12	422.51	2634						

JAG ENGINEERING, INC. 9100 SW TRACY, SUITE 102, HOUSTON, TX 77074 (713) 917-2371 Fax (713) 917-2550	AG ENGINEERING, INC. TEXAS REGISTERED SURVEYING FIRM NO. 117143			SHEET 7 OF 70
	SURVEYED BY: JAG INC. PER M.D. PABST			
CITY OF HOUSTON HOUSTON PUBLIC WORKS			DESIGN OF WATER LINE REPLACEMENT NEW NORTH CANAL-BUFFALO BAYOU	SURVEY CONTROL MAP
S-000700-0-A850-3 DRAWING SCALE AS NOTED				
CITY OF HOUSTON PW FREDDY ORDOÑEZ			SHEET NO. 7 OF 70	

WPS NUMBER	S-000700-A050-3
DRAWING SCALE	AS NOTED
CITY OF HOUSTON PM	FREDDY DRONEZ
SHEET NO.	7 OF 70

SHEET 2 OF 4

FOR CITY OF HOUSTON USE ONLY

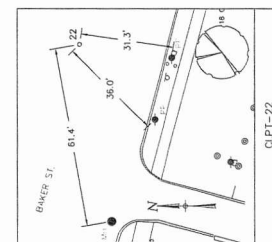
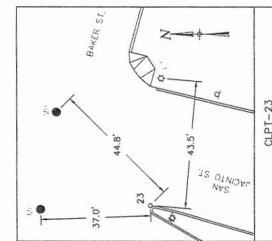
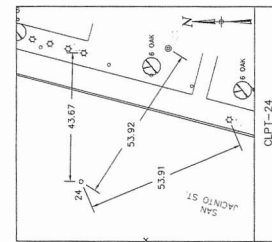
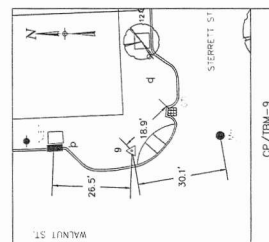
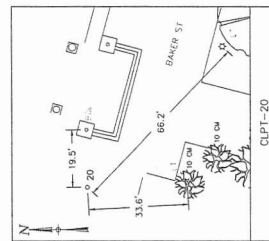
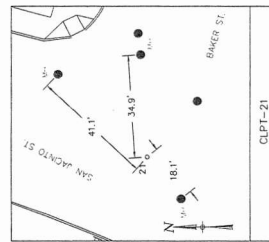
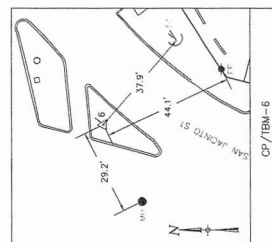
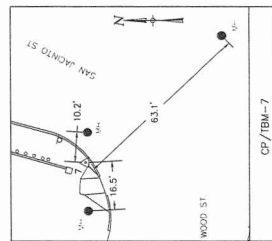
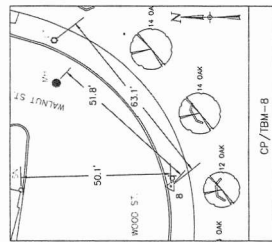
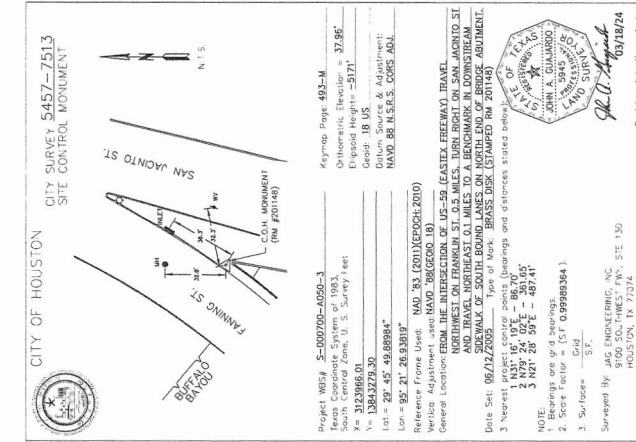
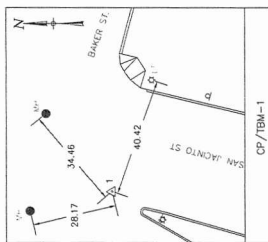
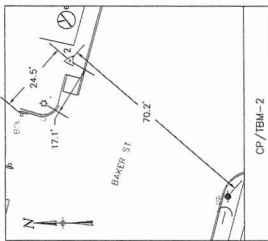
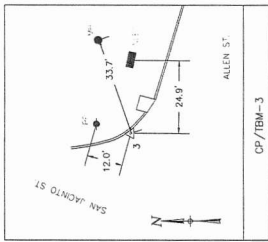
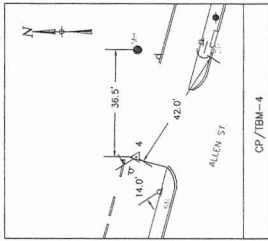
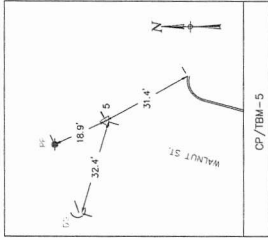
NO.	DATE	REVISION	APP.



SCALE 1" = 20'
KEY MAP NO. 493-M

LEGEND

- 1 SURVEY BASELINE
- △ CONTROL POINT/TBM
- 1120 DESIGN CENTERLINE POINT



JAG ENGINEERING, INC.
3100 SM HWY, SUITE 130, HOUSTON, TX 77074
(713) 977-7550

TEXAS REGISTERED SURVEYING FIRM
NO. 007174

SURVEYED BY:
JAG ENGINEERING, INC.
BRAD PATTEN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS
DESIGN OF WATER LINE REPLACEMENT NEW
NORTH CANAL-BUFFALO BAYOU
SURVEY CONTROL MAP
SWING-TIES

8119

FOR CITY OF HOUSTON USE ONLY

WBS NUMBER
S-000700-A050-3

DRAWING SCALE
AS NOTED

CITY OF HOUSTON PM
FREDDY ORDONEZ

SHEET NO. 8 OF 70

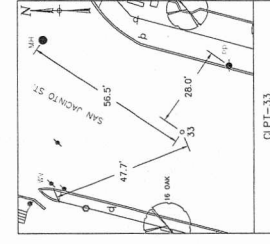
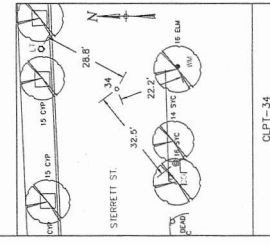
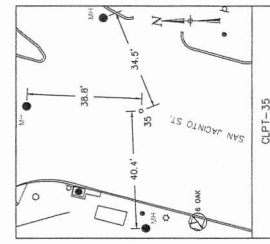
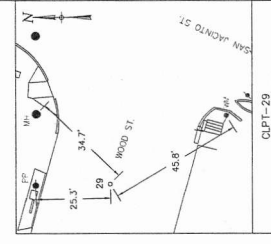
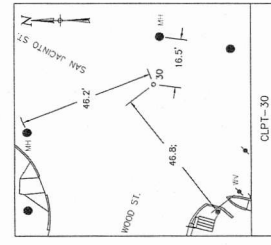
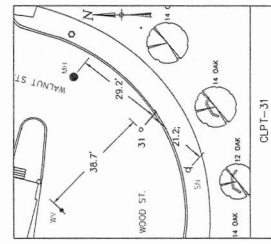
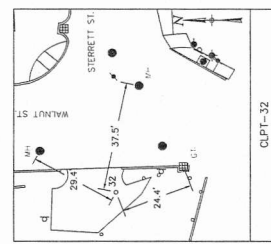
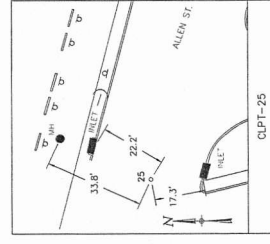
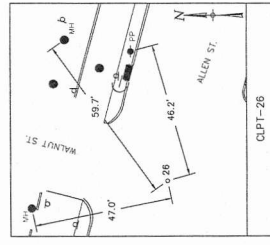
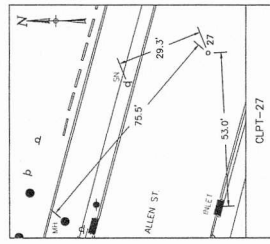
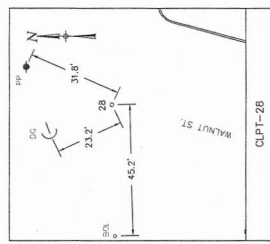
NO.	DATE	REVISION	APP.



0 20' 40'
SCALE: 1" = 20'
KEY MAP NO. 493-M

LEGEND

- △ SURVEY BASELINE CONTROL POINT/TBM
- 1120 DESIGN CENTERLINE POINT



JAG ENGINEERING, INC.
5100 SW FRWY, SUITE 130, HOUSTON, TX 77074
(713) 977-7550

JAG ENGINEERING, INC.
TEXAS REGISTERED SURVEYING FIRM
NO. 1001100

SUPERVISED BY:
JAG ENGINEERING, INC.
FREDDY ORDOÑEZ

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DESIGN OF WATER LINE REPLACEMENT NEW
NORTH CANAL-BUFFALO BAYOU

SURVEY CONTROL MAP
SWING-TIES

SHEET 4 OF 4 FOR CITY OF HOUSTON USE ONLY	
WIS NUMBER	S-000700-A050-3
DRAWING SCALE	AS NOTED
CITY OF HOUSTON PM	FREDDY ORDOÑEZ
SHEET NO.	9 OF 10

Horizontal Alignment Report

File: F:\ON-CALL 2021\NORTH CANAL\IC3D\OCW-NC-Alignment.dwg
Report Date: 10/2/2025 9:45:14 AM
Alignment Name: ALLEN ST.
Station Range: Start: 1+00.00, End: 3+00.00
Description:

Begin ALLEN ST.
N 13,845,125.0965 E 3,124,657.5045 1+00.00
Line (1)
S75° 13' 30"E 200.000'
N 13,845,074.0918 E 3,124,850.8915 3+00.00
Line (1)
N 13,845,074.0918 E 3,124,850.8915 3+00.00
End ALLEN ST.

Alignment Length: 200.000'

File: F:\ON-CALL 2021\NORTH CANAL\IC3D\OCW-NC-Alignment.dwg
Report Date: 10/2/2025 9:45:14 AM
Alignment Name: ALLEN ST. ALLEY
Station Range: Start: 1+00.00, End: 5+00.00
Description:

Begin ALLEN ST. ALLEY
N 13,845,018.9128 E 3,124,732.9187 1+00.00
Line (1)
N14° 46' 30"E 400.000'
N 13,845,405.8867 E 3,124,834.9283 5+00.00
Line (1)
N 13,845,405.8867 E 3,124,834.9283 5+00.00
End ALLEN ST. ALLEY

Alignment Length: 400.000'

File: F:\ON-CALL 2021\NORTH CANAL\IC3D\OCW-NC-Alignment.dwg
Report Date: 10/2/2025 9:45:14 AM
Alignment Name: N. SAN JACINTO ST. (N)
Station Range: Start: 1+00.00, End: 5+40.00
Description:

Begin N. SAN JACINTO ST. (N)
N 13,845,749.0818 E 3,124,583.9920 1+00.00
Line (1)
N14° 48' 30"E 440.000'
N 13,846,174.4676 E 3,124,896.4505 5+40.00
Line (1)
N 13,846,174.4676 E 3,124,896.4505 5+40.00
End N. SAN JACINTO ST. (N)

Alignment Length: 440.000'

File: F:\ON-CALL 2021\NORTH CANAL\IC3D\OCW-NC-Alignment.dwg
Report Date: 10/2/2025 9:45:14 AM
Alignment Name: N. SAN JACINTO ST. (S.)
Station Range: Start: 1+00.00, End: 4+00.00
Description:

Begin N. SAN JACINTO ST. (S.)
N 13,844,767.9863 E 3,124,325.3878 1+00.00
Line (1)
N14° 46' 56"E 300.000'
N 13,845,058.0570 E 3,124,401.9318 4+00.00
Line (1)
N 13,845,058.0570 E 3,124,401.9318 4+00.00
End N. SAN JACINTO ST. (S.)

Alignment Length: 300.000'

File: F:\ON-CALL 2021\NORTH CANAL\IC3D\OCW-NC-Alignment.dwg
Report Date: 10/2/2025 9:45:14 AM
Alignment Name: STERRETT ST.
Station Range: Start: 1+00.00, End: 3+00.00
Description:

Begin STERRETT ST.
N 13,846,045.1622 E 3,124,985.9198 1+00.00
Line (1)
N87° 47' 31"E 200.000'
N 13,846,052.8678 E 3,125,185.7713 3+00.00
Line (1)
N 13,846,052.8678 E 3,125,185.7713 3+00.00
End STERRETT ST.

Alignment Length: 200.000'

File: F:\ON-CALL 2021\NORTH CANAL\IC3D\OCW-NC-Alignment.dwg
Report Date: 10/2/2025 9:45:14 AM
Alignment Name: WOOD ST. & WALNUT ST.
Station Range: Start: 1+00.00, End: 8+40.00
Description:

Begin WOOD ST. & WALNUT ST.
N 13,845,839.7806 E 3,124,535.7399 1+00.00
Line (1)
S75° 13' 30"E 400.000'
N 13,845,737.7711 E 3,124,922.5138 5+00.00
Line (1)
Line (2)
N14° 46' 30"E 340.000'
N 13,846,066.5289 E 3,125,009.2219 8+40.00
Line (2)
N 13,846,066.5289 E 3,125,009.2219 8+40.00
End WOOD ST. & WALNUT ST.

Alignment Length: 740.000'

HORIZONTAL ALIGNMENT DATA

MS NUMBER	CITY OF HOUSTON
S-000700-000-1	HOUSTON PUBLIC WORKS
DRAWING SCALE	DESIGN OF WATER LINE REPAIR ALTERNATIVE NORTH CANAL - BUFFALO GROVE AREA
DATE	
CITY OF HOUSTON PM	
FLEET ORIGINATOR	
SHEET NO. 10 OF 70	

SES HORIZON
Civil Engineering & Surveying
10001 Fwy 177, Suite 100
(713) 988-5551 Fax (713) 988-1441 www.seshorizon.com

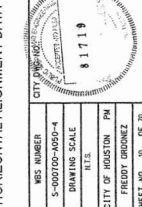


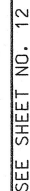
DESIGNED BY: DAVID E. BALABAN
CHECKED BY: JAMES ENGINEERING INC.
REVISION: 03/07/2025

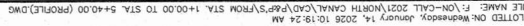
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

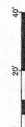
DESIGN OF WATER LINE REPAIR ALTERNATIVE
NORTH CANAL - BUFFALO GROVE AREA

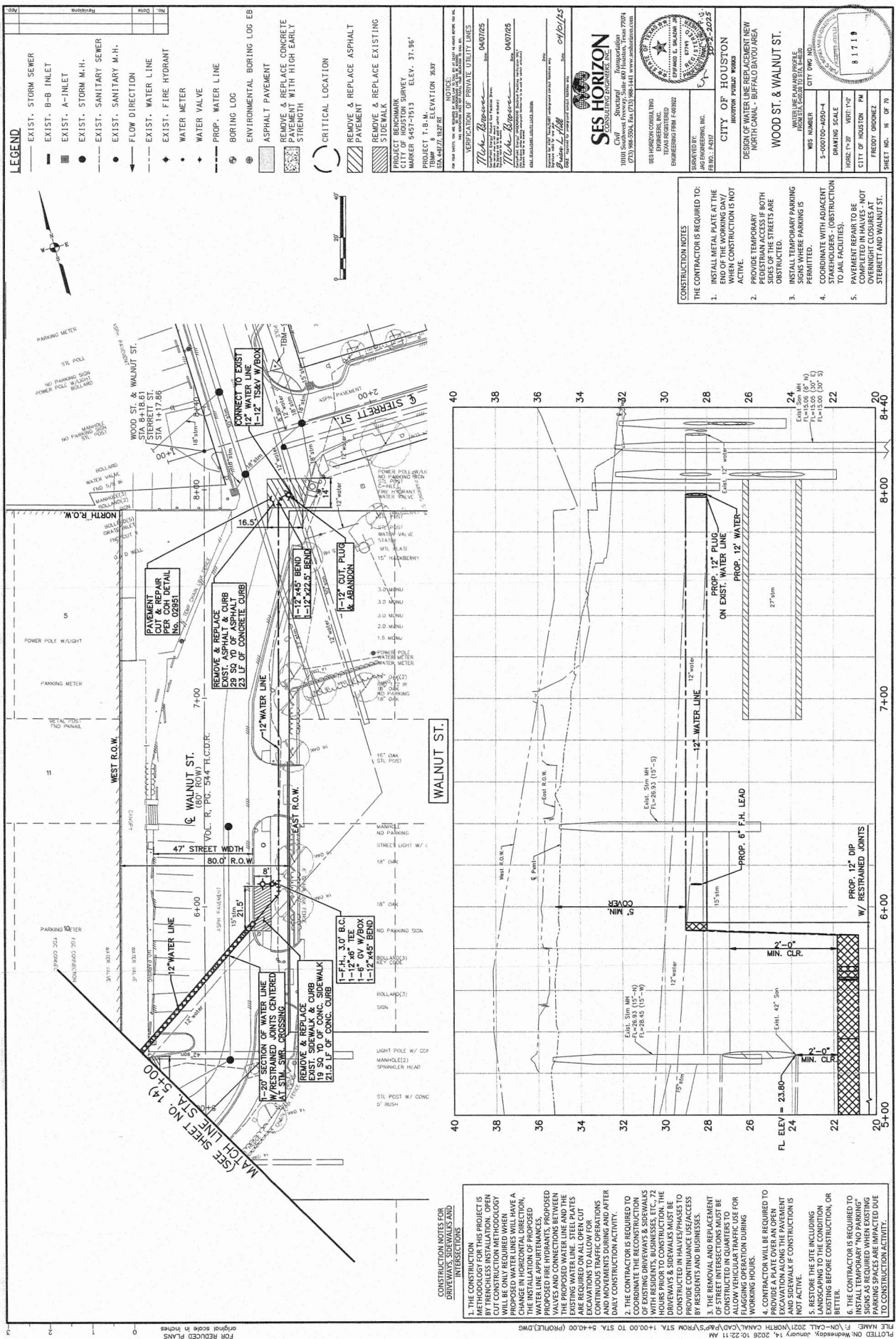
HORIZONTAL ALIGNMENT DATA











LEGEND

- EXIST. STORM SEWER
- EXIST. B-B INLET
- EXIST. A-INLET
- EXIST. STORM M.H.
- EXIST. SANITARY M.H.
- FLOW DIRECTION
- EXIST. WATER LINE
- EXIST. FIRE HYDRANT
- WATER METER
- WATER VALVE
- PROP. WATER LINE
- BORING LOG
- ENVIRONMENTAL BORING LOG
- ASPHALT PAVEMENT
- REMOVE & REPLACE CONCRETE PAVEMENT WITH HIGH EARLY STRENGTH
- CRITICAL LOCATION
- REMOVE & REPLACE ASPHALT PAVEMENT
- REMOVE & REPLACE EXISTING SIDEWALK
- PROJECT BENCHMARK
- PROJECT T.B.M.
- TEMP. ELEVATION
- STATION

NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE TEXAS DEPARTMENT OF TRANSPORTATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE TEXAS DEPARTMENT OF TRANSPORTATION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE TEXAS DEPARTMENT OF TRANSPORTATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE TEXAS DEPARTMENT OF TRANSPORTATION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE TEXAS DEPARTMENT OF TRANSPORTATION.

VERIFICATION OF PRIVATE UTILITY LINES
DATE: 04/07/25
BY: Mike Rogers
PROJECT: 040725
DRAWN: 040725
CHECKED: 040725
APPROVED: 040725

SES HORIZON
Civil Engineering & Surveying
1000 Southwest Freeway, Suite 400 Houston, Texas 77004
(713) 462-5544, Fax (713) 462-5545
www.seshorizon.com

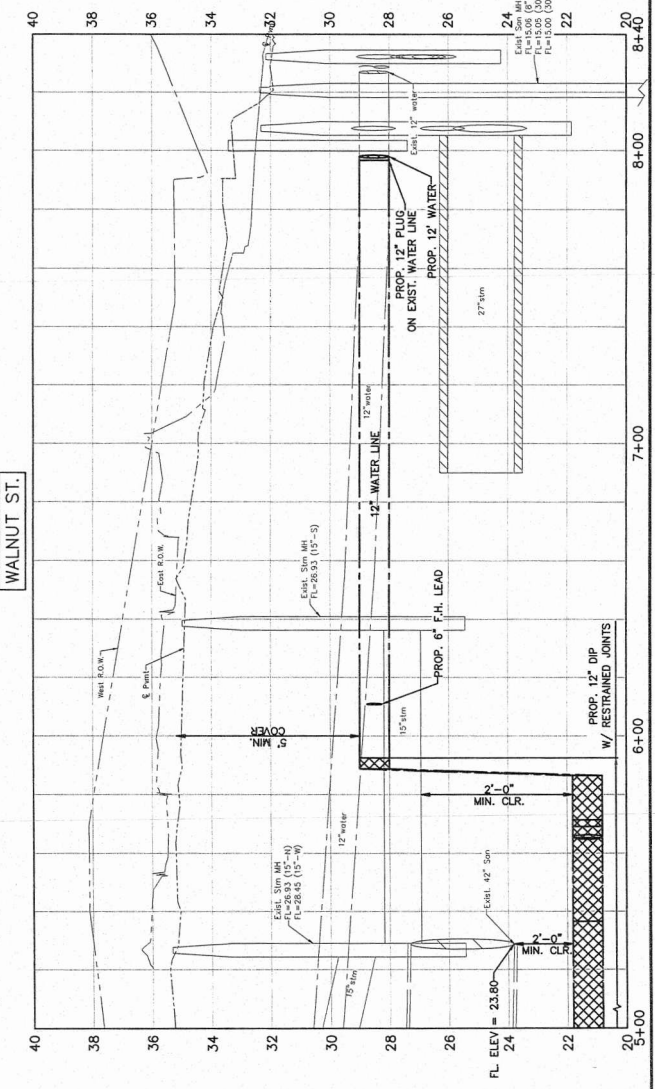
Mike Rogers
Professional Engineer
State of Texas
No. 140002

DESIGNED BY: Mike Rogers
CHECKED BY: Mike Rogers
APPROVED BY: Mike Rogers
DATE: 04/07/25

CITY OF HOUSTON
DESIGN OF WATER LINE PROJECT
WOOD ST. & WALNUT ST.
WATER LINE PROJECT
CITY OF HOUSTON
WATER LINE PROJECT
CITY OF HOUSTON

WIS NUMBER: 5-000700-400-1
DRAWING SCALE: 1"=20'
PROJECT: 040725
SHEET NO. 15 OF 75

- CONSTRUCTION NOTES
- THE CONTRACTOR IS REQUIRED TO:
- INSTALL METAL PLATE AT THE EXISTING WATER LINE WHEN CONSTRUCTION IS NOT ACTIVE.
 - PROVIDE TEMPORARY PEDESTRIAN ACCESS IF BOTH SIDES OF THE STREETS ARE OBSTRUCTED.
 - INSTALL TEMPORARY PARKING PERMITTED.
 - COORDINATE WITH ADJACENT STAKEHOLDERS - (OBSTRUCTION TO JAIL FACILITIES).
 - PAVEMENT REPAIR TO BE COMPLETED IN HALVES - NOT TO BE COMPLETED AT WALNUT ST. & STERRETT ST.



CONSTRUCTION NOTES FOR DRIVEWAYS, SIDEWALKS AND INTERSECTIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE TEXAS DEPARTMENT OF TRANSPORTATION.

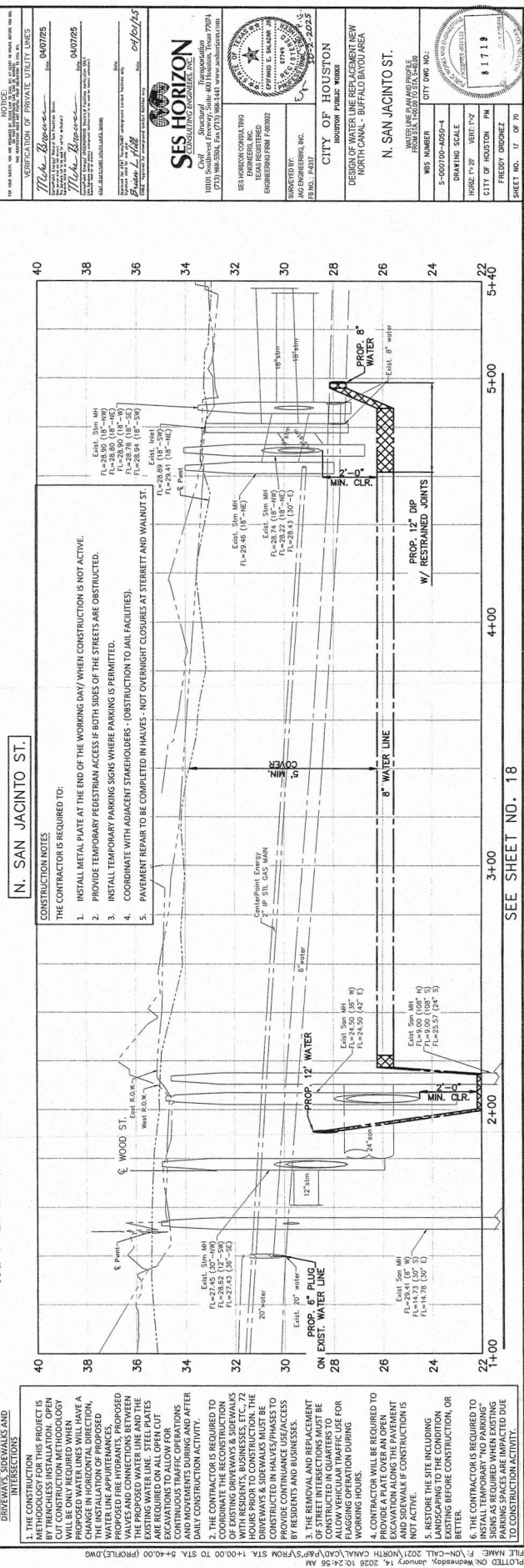
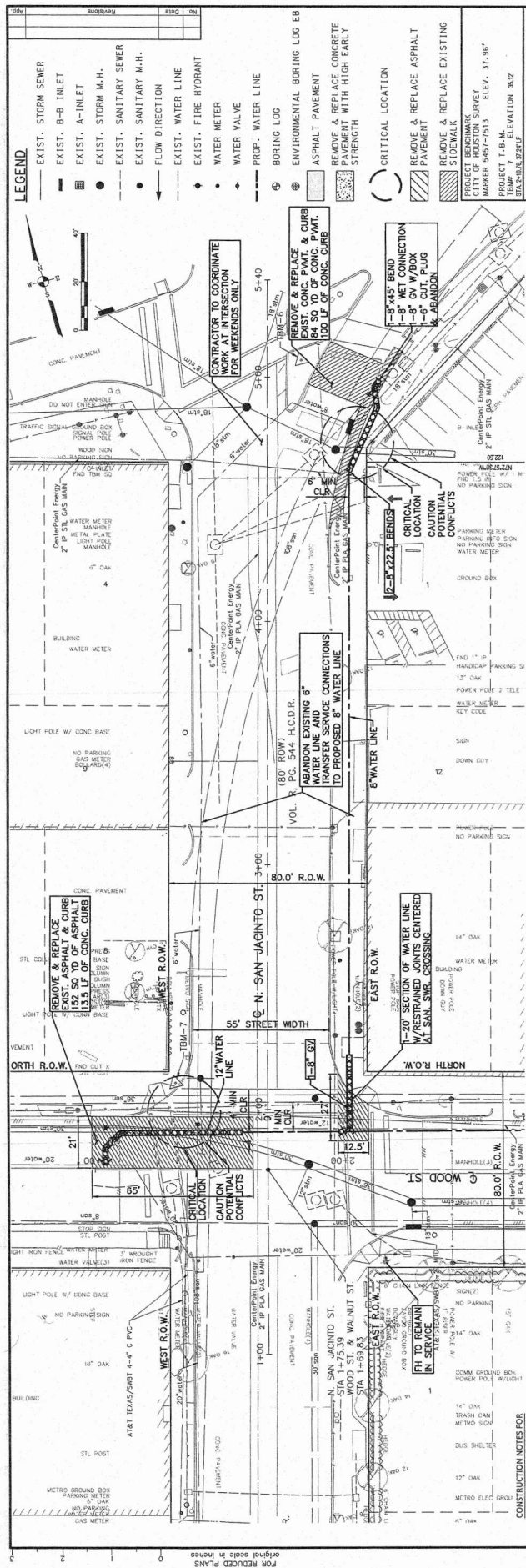
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE TEXAS DEPARTMENT OF TRANSPORTATION.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE TEXAS DEPARTMENT OF TRANSPORTATION.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE TEXAS DEPARTMENT OF TRANSPORTATION.

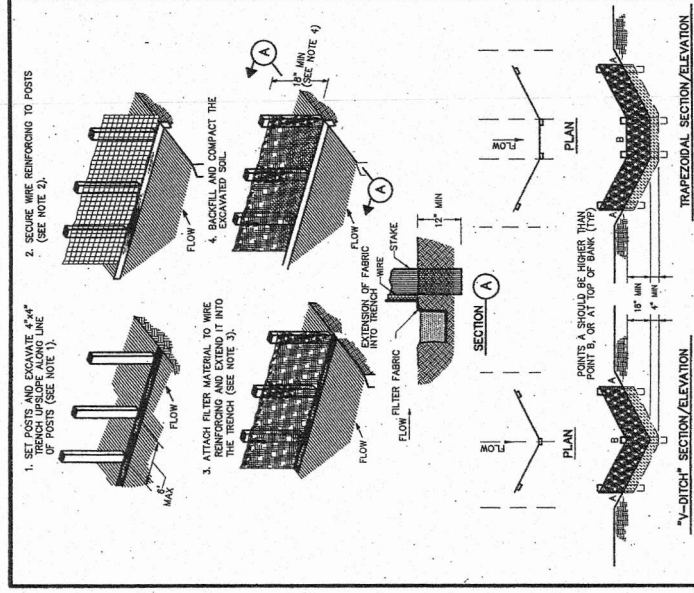
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE TEXAS DEPARTMENT OF TRANSPORTATION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE TEXAS DEPARTMENT OF TRANSPORTATION.



1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF HOUSTON AND THE HOUSTON PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF HOUSTON AND THE HOUSTON PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF HOUSTON AND THE HOUSTON PUBLIC WORKS DEPARTMENT.

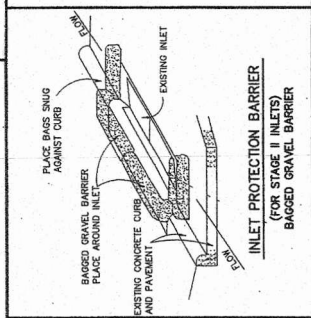
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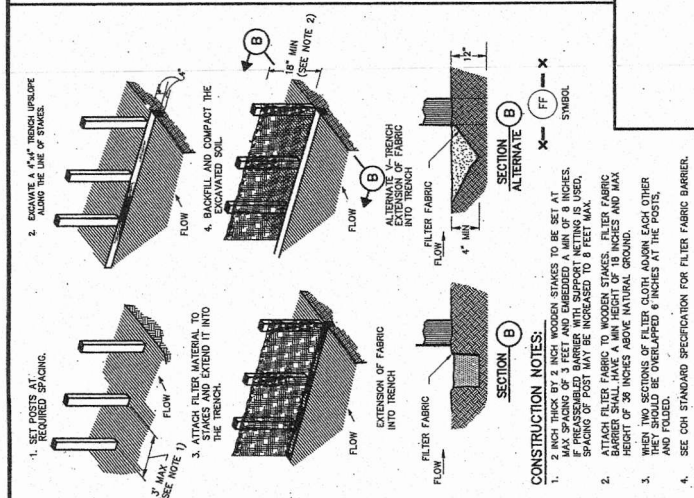
CONSTRUCTION NOTES:

1. SET 12 INCH BY 12 INCH WOODEN STAKES SPACED A MAX OF 12 FEET APART.
2. WOVEN WIRE REINFORCING TO BE FASTENED SECURELY TO BARRIER POSTS WITH STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE AND WOODEN STAKES WITH TIES SPACED EVERY 24 INCHES AT TOP AND BOTTOM.
4. MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 8 INCHES AT THE POSTS, AND FOLDED.
6. SEE CON STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

REINFORCED FILTER FABRIC BARRIER



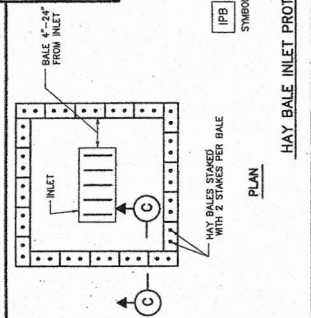
INLET PROTECTION BARRIER (FOR STAGE II INLETS) BAGGED GRAVEL BARRIER



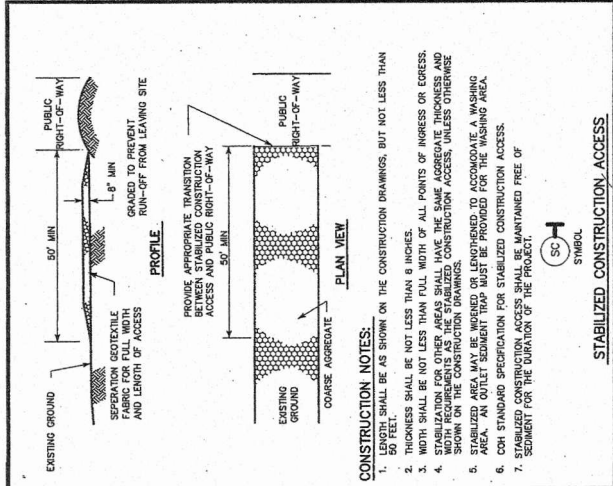
CONSTRUCTION NOTES:

1. 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PREASSEMBLED BARRIER WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
2. FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE AND WOODEN STAKES WITH TIES SPACED EVERY 24 INCHES AT TOP AND BOTTOM.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 8 INCHES AT THE POSTS, AND FOLDED.
4. SEE CON STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

FILTER FABRIC BARRIER



HAY BALE INLET PROTECTION BARRIER

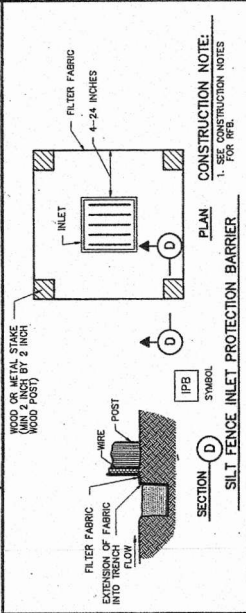


STABILIZED CONSTRUCTION ACCESS

CONSTRUCTION NOTES:

1. ACCESS SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 12 FEET WIDE.
2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
3. WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
4. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION ACCESS, UNLESS OTHERWISE NOTED.
5. STABILIZED AREA MAY BE MINOR OR LENGTHENED TO ACCOMMODATE A WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE WASHING AREA.
6. COH STANDARD SPECIFICATION FOR STABILIZED CONSTRUCTION ACCESS.
7. STABILIZED CONSTRUCTION ACCESS SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.

SC SYMBOL

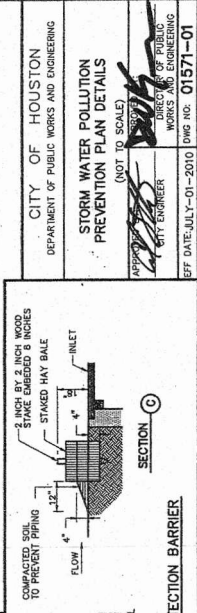


CONSTRUCTION NOTE:

1. SEE CONSTRUCTION NOTES FOR IPB.

PLAN

SECTION



SECTION

SES HORIZON
 Civil Structural Foundation
 10001 Southwest Freeway, Suite 400 Houston, Texas 77064
 (713) 985-5504 Fax (713) 985-5441 www.seshorizon.com

SES HORIZON CONSULTING ENGINEERS, INC.
 TEXAS REGISTERED ENGINEERING FIRM NO. 12437
 SURVEYED BY: AG ENGINEERING, INC.
 10/02/2025

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS
 DESIGN OF WATER LINE REPLACEMENT NEW NORTH CANAL - BUFFALO WARD AREA
 STORM WATER POLLUTION PREVENTION DETAIL

WIS NUMBER: 5-00010-ADD-4
 DRAWING SCALE: N.T.S.
 CITY OF HOUSTON: PM
 FREDDY ORDOÑEZ
 SHEET NO. 19 OF 78