



THE COUNTY OF GALVESTON

RUFUS G. CROWDER, CPPO, CPPB
PURCHASING AGENT

COUNTY COURTHOUSE
722 Moody (21st Street)
Fifth (5th) Floor
GALVESTON, TEXAS 77550

PROJECT NAME: Jackson Ave Drainage Improvement – Phase II (9th St. to North of 14th St.)

SOLICITATION NO: ITB #B231025

RE: ADDENDUM #1

To All Prospective Bidders:

The following information is being provided to aid in the preparation of your ITB submittal(s):

Item No. 1 The Project Manual Cover Sheet is revised and replaced with the attached Project Manual Cover Sheet labeled Addendum No. 1.

Item No. 2 The Bid Form is revised and replaced with the attached Bid Form labeled Addendum No. 1.

Item No. 3 The Technical Specifications Table of Contents is revised and replaced with the attached Technical Specifications Table of Contents labeled Addendum No. 1.

Item No. 4 Construction Plan Set Sheet Nos. 2, 8, 9, 12, 15, 16, 17, 18, and 20 are revised and replaced with the attached Construction Plan Set Sheet Nos. 2, 8, 9, 12, 15, 16, 17, 18, and 20 labeled Addendum No. 1

Question #1: *Page 7 of the General Provision encourages Contractors to submit their bid proposals online via Bonfire. Will the County put this job on Bonfire to allow for electronic submission?*

Response: All proposers are to disregard any mention of Bonfire in the solicitation document. That paragraph was entered in error. All responses must be delivered to the Purchasing Department by the submission deadline of Tuesday, July25, 2023 at 2:00 p.m.

Question #2: *Will an executed CIQ Form need to be on file with the Galveston County Clerk prior to the Bid or will an executed CIQ form submitted with the Bid be acceptable?*

Response: The executed CIQ Form needs to be on file with the Galveston County Clerk by the submission deadline.

Question #3 *Tensar InterAx with Flexible Base can provide a stable roadway while potentially eliminating Lime Stabilization. InterAx can help mitigate expansive soils with the use of mechanical interlock. This can reduce project costs, speed up construction schedule and improve safety. Would Tensar InterAx Geogrid be considered an equal to Lime Stabilization in order to provide a more competitive bid? Can we submit an alternate typical section for the pavement for approval and use as an alternate? Brian with GeoSolutions, 832-372-6737, brian.goad@geosolutionsinc.com*

Response: For this project, Tensar InterAx with Flexible Base is not considered an approved road base.

Question #4 *Will the prebid sign in sheet get posted?*

Response: Yes.

If you have any further questions regarding this bid, please address them to the representative listed below, via e-mail at purchasing.bids@co.galveston.tx.us, or contact the Purchasing Department at (409) 770-5371.

Rufus G. Crowder, CPPO CPPB
Galveston County Purchasing Agent
722 Moody, Fifth (5th) Floor
Galveston, Texas 77550
E-mail: purchasing.bids@co.galveston.tx.us

Please excuse us for any inconvenience that this may have caused.

Sincerely,



Rufus G. Crowder, CPPO CPPB
Purchasing Agent
Galveston County

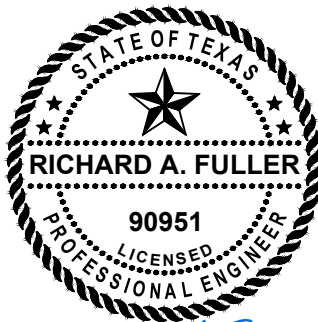


COUNTY OF GALVESTON

SPECIFICATIONS AND CONTRACT DOCUMENTS

JACKSON AVE DRAINAGE IMPROVEMENTS- PHASE II (9TH ST. TO NORTH OF 14TH ST.)

ITB #B231025



Richard A. Fuller
06/20/2023

June 2023



**JACKSON AVE DRAINAGE IMPROVEMENTS - PHASE II
(9th St. to North of 14th St.)**

BID PROPOSAL

Base Bid:

Item No.	Item Bid Code	Spec #	Description ⁽¹⁾	Unit of Measure	Quantity	Unit Price ⁽²⁾	TOTAL
1	0105-6097	105	REMOVING STAB BASE AND ASPH PAV (10")	SY	4881		
2	0105-6097	105	ASPHALT SAWCUT	LF	255		
3	0105-6097	105	CONCRETE SAWCUT	LF	128		
4	0162-6002	162	BLOCK SODDING	SY	199.5		
5	0247-6312	247	FL BS (CMP IN PLC)(TY D GR1-2)(8")	SY	4450		
6	0340-6106	340	D-GR HMA(SQ) TY-D PG64-22 (2")	TON	449		
7	0402-6001	402	TRENCH EXCAVATION PROTECTION	LF	1823		
8	0462-6014	400, 462	FURNISH AND INSTALL CONC BOX CULV (7 FT X 3 FT) (COMPLETE IN PLACE INCLUDING ALL EXCAVATIONS AND BACKFILL MATERIAL)	LF	1539		
9	0464-6004	400, 464	FURNISH AND INSTALL RC PIPE (CL III)(18 IN) (COMPLETE IN PLACE INCLUDING ALL EXCAVATIONS AND BACKFILL MATERIAL)	LF	214		
10	0464-6005	400, 464	FURNISH AND INSTALL RC PIPE (CL III)(24 IN) (COMPLETE IN PLACE INCLUDING ALL EXCAVATIONS AND BACKFILL MATERIAL)	LF	324		
11	0465-6071	465	FURNISH AND INSTALL INLET (COMPL)(PSL)(RC)(4FTX4FT) (COMPLETE IN PLACE INCLUDING ALL EXCAVATIONS AND BACKFILL MATERIAL)	EA	14		
12	0496-6007	496	REMOVE 18" RCP (PIPE)	LF	249		
13	0496-6007	496	REMOVE 24" RCP (PIPE)	LF	33		
14	0500-6001	500	MOBILIZATION	LS	1		
15	0502-6001	502	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1		
16	0506-6041	506	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	280		
17	0506-6041	506	BIODEG EROSN CONT LOGS (REMOVE) (12")	LF	280		
18	0506-6038	506	TEMP SEDMT CONT FENCE (INSTALL)	LF	420		
19	0506-6039	506	TEMP SEDMT CONT FENCE (REMOVE)	LF	420		
20	0000-0560	560	RELOCATE MAILBOX	EA	4		
21	7017-6017	7017	FURNISH AND INSTALL SANITARY SEWER (8 IN) (PVC) (SDR 26) (COMPLETE IN PLACE)	LF	237		
22	7017-XXXX	7017	STEEL CASING (PIPE) (14 IN)	LF	10		
23	7049-XXXX	7049	FURNISH AND INSTALL WATER MAIN PIPE (PVC) (3IN) (SCHEDULE 40)* (COMPLETE IN PLACE)	LF	263		
24	7049-6012	7049	WATER MAIN PIPE (PVC) (10IN) (C-900)* (COMPLETE IN PLACE)	LF	43		
25	7136-6014	7136	ABANDON/REMOVE EXISTING WATER LINE (ALL SIZES)	LF	306		

Item No.	Item Bid Code	Spec #	Description ⁽¹⁾	Unit of Measure	Quantity	Unit Price ⁽²⁾	TOTAL
26	7197-6011	7197	REMOVE EXISTING SEWER LINE 2"-12"	LF	237		
27	COH 02081	2081	FURNISH AND INSTALL RCB MANHOLE (COMPLETE IN PLACE INCLUDING ALL EXCAVATION AND BACKFILL MATERIAL)	EA	13		
28	COH 02082	2082	SANITARY MANHOLE DROPS; 8-INCH DIAMETER, ALL DEPTHS	EA	4		
29	COH 02082	2082	FURNISH AND INSTALL 4-FOOT DIAMETER PRECAST SANITARY DROP MANHOLE (COMPLETE IN PLACE)	EA	4		
30	COH 02082	2082	FURNISH AND INSTALL EXTRA DEPTH, 4-FOOT DIAMETER SANITARY MANHOLE (COMPLETE IN PLACE)	VF	14		
31	COH 02526	2526	ADJUST WATER METER TO GRADE	EA	5		
32	HC 473	473	REPAIR SANITARY MANHOLES	EA	4		
33	PLANS	DWG	REMOVE PRECAST RCB PLUG	EA	1		
34	PLANS	DWG	FURNISH AND INSTALL PRECAST RCB PLUG	EA	1		
35	PLANS	DWG	PROJECT SIGN	EA	1		
Total Base Bid:							\$

Alternate 1 Bid Items:

Item No.	Item Bid Code	Spec #	Description	Unit of Measure	Estimated Quantity	Unit Price	TOTAL
36	0260-6060	260	LIME (HYDRATED OR COMMERCIAL)(SLURRY)(3%)	TON	50		
37	0260-6060	265	FLY ASH (7%)	TON	115		
38	0265-6073	265	LIME AND FLY ASH TREATMENT (SUBGRADE) (8")	SY	4881		
Alternate 1 Bid Total :							\$
Total Base Bid + Alternate 1 Bid Total:							\$

Alternate 2 Bid Items:

Item No.	Item Bid Code	Spec #	Description	Unit of Measure	Estimated Quantity	Unit Price	TOTAL
39	275-6001	275	CEMENT (6%)	TON	98		
40	275-6004	275	CEMENT TREATMENT (SUBGRADE) (8")	SY	4881		
Alternate 2 Bid Total:							\$
Total Base Bid + Alternate 2 Bid Total:							\$

Notes:

⁽¹⁾ The intent of the Contract Documents is for the Contractor to include all items necessary for the proper execution and completion of the Work described in the Contract Documents. No separate measurement and payment shall be made for any work unless identified as a pay item in the BID. Include the cost of work not identified as a separate pay item in Contract price bid for items of which this work is a component. In case of discrepancy between measurement and payment within the BID and Technical Specification Section, the BID shall govern.

⁽²⁾ In the event of a discrepancy, this column shall govern.

TECHNICAL SPECIFICATIONS
JACKSON AVENUE PHASE II DRAINAGE IMPROVEMENTS

The work covered by this contract is to be constructed in accordance with the specifications listed below. City of Houston specifications shall apply as if fully repeated and bound herein, except as modified by the specifications included in this contract. All references to City of Houston Division 1 specifications included herein shall be considered to reference applicable portions of this contract. Harris County and Texas Department of Transportation (TxDOT) specifications shall apply as if fully repeated and bound herein. Where conflict between specifications occurs, the most restrictive shall govern.

ITEM 1 City of Houston “Standard Construction Specifications” (latest revision); Division 2: Site Construction. The current City of Houston specifications may be found at the COH website <https://www.houstonpermittingcenter.org/media/3071/download> ,

City of Houston "Standard Construction Details" (latest revision).

ITEM 2 Harris County Engineering Department’s “2017 Standard Specifications for Construction and Maintenance of Roads and Bridges.” The current HCED specifications may be found at the HCED website: www.eng.hctx.net.

ITEM 3 Texas Department of Transportation (TxDOT) 2014 Standard Specifications Book. The current TxDOT specifications may be found at the TxDOT website <http://www.dot.state.tx.us/business/specifications.html>

ITEM 4 Whenever the word(s) “Project Manager” is used in the technical specifications, it shall be understood to mean Galveston County (“Owner”).

ITEM 5 Whenever the word(s) “City or City of Houston” is used in the technical specifications, it shall be understood to mean Galveston County (“Owner”).

Special Provisions To TxDOT

<u>Items</u>	<u>Title</u>
SP 1	Abbreviations and Definitions
SP 2	Instructions to Bidders
SP 3	Award and Execution of Contract
SP 4	Scope of Work
SP 5	Control of the Work
SP 6	Control of Materials
SP 7	Legal Relations and Responsibilities
SP 8	Prosecution and Progress
SP 9	Measurement and Payment
SP 400	Excavation and Backfill for Structures
SP 462	Concrete Box Culverts and Drains
SP 464	Reinforced Concrete Pipe

**Special
Specifications
To TxDOT**

<u>Items</u>	<u>Title</u>
SS7017	Sanitary Sewers
SS7049	Water Mains
SS7136	Water Mains and Appurtenances

TxDOT

<u>Items</u>	<u>Title</u>
105	Removing Treated and Untreated Base and Asphalt Pavement
162	Sodding for Erosion Control (168)
164	Seeding for Erosion Control (166) (162) (164) (166)
166	Fertilizer
247	Flexible Base (210) (216) (105) (204) (520)
260	Lime Treatment (132) (204) (210) (216) (247) (300) (520)
265	Fly Ash or Lime-Fly Ash Treatment (204) (210) (216) (247) (310) (520)
275	Cement Treatment (Road Mixed) (204) (210)(216)(247)(300)(310)(520)
276	Cement Treatment (Plant Mixed) (247) (300) (210) (216) (204) (520) (310)
340	Dense-Graded Hot-Mix Asphalt (6) (300) (520) (585)
400	Excavation and Backfill for Structures (401) (421) (402) (403) (132) (416)
402	Trench Excavation Protection (132) (400) (416) (420) (421) (423)
420	Concrete Substructures (5) (404) (421) (422) (426) (427) (440) (448)
462	Concrete Box Culverts and Drains (420) (421) (440) (464) (424) (462) (476) (467) (402) (403)
464	Reinforced Concrete Pipe (467) (476) (402) (403) (400)

TxDOT

<u>Items</u>	<u>Title</u>
465	Junction Boxes, Manholes, and Inlets (420) (421) (440) (471) (424) (400)
466	Headwalls and Wingwalls (420) (421) (440) (464) (432)
496	Remove Existing Pipe Culvert (460) (464) (400) (402) (403) (476)
500	Mobilization
502	Barricades, Signs, and Traffic Handling (161) (432) (556)
506	Temporary Erosion, Sedimentation, and Environmental Controls (161) (432) (556)
760	Cleaning and Reshaping Ditches

COH

SPECS

02081	Cast-In-Place Concrete Manholes (City of Houston Standard Specification)
02082	Precast Concrete Manholes
02221	Removing Existing Pavements, Structures, Wood, and Demolition Debris
02526	Water Meters

HARRIS COUNTY

ITEM

473	Adjusting Manholes and Inlets
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GENERAL CONSTRUCTION NOTES

- 1. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATERLINES, WASTEWATER COLLECTION SYSTEMS, STORM SEWERS, AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH SPECIFICATIONS. NO SEPARATE PAY.
2. DRAINAGE SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DETAILS.
3. CONSTRUCT WASTEWATER COLLECTION SYSTEMS, WATERLINES, AND STORM DRAINAGE AND STREET PAVING IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
4. 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.
5. CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET, AS A MINIMUM, THE REQUIREMENTS OF OSHA SAFETY AND HEALTH REGULATION, PART 1926, SUBPART P AS PUBLISHED IN THE FEDERAL REGISTER, VOLUME 54, NO. 209, DATED OCTOBER 31, 1989. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.
6. ALL STREET SIGNS AND POLES WITHIN THE PROJECT LIMITS SHALL BE REUSED UNLESS THE SIGN IS DAMAGED PRIOR TO THE CONTRACTORS ARRIVAL. IF SIGN IS NOT REUSABLE, CONTRACTOR SHALL NOTE CONDITION OF SIGN AND POLE PRIOR TO REMOVAL. CONTRACTOR SHALL REMOVE SIGN AND POLE, STORE IN A SAFE LOCATION, AND REPLACE WHEN ROADWAY SEGMENT IS COMPLETE.
7. EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION WITHIN RIGHT-OF-WAY SHALL BE REPLACED TO COUNTY STANDARDS.
8. CONDITION OF ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
9. ALIGNMENT, CENTERLINE CURVE DATA AND STATIONING TO BE VERIFIED BY ON-THE-GROUND SURVEY AND ELEVATIONS OF ALL CONNECTIONS TO EXISTING FACILITIES TO BE CONFIRMED PRIOR TO WORK START. CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
10. CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS RECORDING AS-BUILT CONDITIONS DURING CONSTRUCTION. THESE REDLINE MARKED UP DRAWINGS WILL BE SUBMITTED TO THE DESIGN CONSULTANT WHO WILL MAKE THE CHANGES ON CONSTRUCTION DRAWINGS, LABELING EACH SHEET IN THE SET AS "RECORD DRAWINGS", AND RETURNING SAME TO THE COUNTY AND ONE SET OF COPIES TO BACLIFF MUD.
11. CONTRACTOR SHALL GIVE NO LESS THAN 48-HOURS NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
12. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN BE ISSUED TO CONTRACTOR WILL BE OBTAINED AT HIS EXPENSE.
13. ALL UTILITY TRENCHES TO BE BACKFILLED TO 95 PERCENT STANDARD PROCTOR DENSITY UNLESS OTHERWISE NOTED.
14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO STOCKPILE MATERIAL AS NECESSARY AT NO ADDITIONAL EXPENSE TO THE COUNTY.
15. THE CONTRACTOR SHALL FIELD DETERMINE THE EXACT LOCATIONS OF UNDERGROUND FACILITIES PRIOR TO COMMENCING CONSTRUCTION. HE SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND MAINTAIN THESE UNDERGROUND FACILITIES.
16. THERE WILL BE NO SEPARATE PAYMENT FOR WORK SHOWN ON THESE PLANS, UNLESS SPECIFICALLY ESTABLISHED IN THE BID PROPOSAL SECTION OF THE CONTRACT DOCUMENTS. INCLUDE COST OF THIS WORK IN THE CONTRACT UNIT PRICE FOR ITEMS OF WHICH THIS WORK IS A COMPONENT OR INCIDENTAL.
17. THE CONTRACTOR SHALL OBTAIN PHOTOS OF THE PROJECT AREA PRIOR TO CONSTRUCTION TO BE SUBMITTED TO THE ENGINEER.

TRAFFIC CONTROL

- 1. THE TRAFFIC CONTROL PLAN/DETAILS INCLUDED IN THE PLAN DRAWINGS ARE PROVIDED AS A GUIDE TO THE CONTRACTOR AND ARE THE MINIMUM REQUIREMENTS.
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH PART VI OF THE MOST RECENT EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND THE APPROVED TRAFFIC CONTROL PLAN.
3. MEASUREMENT AND PAYMENT FOR TRAFFIC CONTROL AND REGULATION IS ON A LUMP SUM BASIS, INCLUDING COORDINATING WITH AND OBTAINING APPROVALS BY GOVERNING AUTHORITIES, PREPARATION AND SUBMITTAL OF A REVISED TRAFFIC CONTROL PLAN IF IMPLEMENTED DIFFERENTLY (DUE TO FIELD CONDITIONS) FROM WHAT IS SHOWN ON DRAWINGS, AND SUBSEQUENT APPROVAL FROM COUNTY AND ANY OTHER ENTITY PRIOR TO COMMENCING WORK IN THEIR RIGHT-OF-WAY.
4. MEASUREMENT AND PAYMENT FOR BARRICADES, SIGNS, AND TRAFFIC HANDLING WILL BE MEASURED BY THE MONTH INCLUDING INSTALLATION, MAINTENANCE, ADJUSTMENTS, REPLACEMENTS, REMOVAL, MATERIALS, EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS.
5. DETOURS REQUIRE PRIOR APPROVAL OF THE FIELD ENGINEER AND COUNTY. DETOUR PLANS, IF ALLOWED, MUST INCLUDE APPROPRIATE DETOUR SIGNAGE, PUBLIC NOTICE VIA SIGNAGE TWO WEEKS IN ADVANCE STATING THE DATES OF THE AGREED UPON DATE OF CLOSURE AND DATE THE ROAD WILL RE-OPEN TO TRAFFIC.
6. ANY ADJUSTING INCLUDING PROVISION OF ADDITIONAL TRAFFIC CONTROL DEVICES AND SIGNAGE BY THE CONTRACTOR, AS REQUESTED BY THE COUNTY, TO FACILITATE SMOOTH FLOW OF TRAFFIC AND TO ACCOMMODATE FIELD CONDITIONS WILL NOT BE PAID FOR SEPARATELY AND MUST BE INCLUDED IN THE TRAFFIC CONTROL AND REGULATION BID ITEM. THE AMOUNT INVOICED SHALL BE DETERMINED BASED ON THE APPROVED SCHEDULE OF VALUES FOR TRAFFIC CONTROL AND REGULATION. THIS ITEM SHALL ALSO COVER THE COST OF ANY ADDITIONAL TRAFFIC CONTROL MEASURES WHICH THE CONTRACTOR MAY FEEL IS NECESSARY FOR SMOOTH FLOW OF TRAFFIC AND PUBLIC SAFETY.
7. NO WORK ON RESIDENTIAL STREETS FROM 7:00 P.M. TO 7:00 A.M., SEVEN DAYS A WEEK.

WASTEWATER CONSTRUCTION NOTES

- 1. PRIOR TO SANITARY SEWER CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR ISSUANCES OF NECESSARY PERMITS/WORK ORDERS.
2. SEPARATION DISTANCES FOR ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE GOVERNED BY THE "TEXAS COMMISSION ON ENVIRONMENTAL QUALITY," SECTION 217.53, LATEST PRINTING.
3. MAINTAIN 12-INCH MINIMUM VERTICAL CLEARANCE AT CROSSINGS BETWEEN SANITARY SEWERS AND CULVERTS, UNLESS OTHERWISE NOTED.
4. SANITARY SEWER LEADS UNDER OR WITHIN 1-FOOT OF EXISTING OR FUTURE PAVEMENT SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND UP TO WITHIN 1-FOOT OF TOP OF PAVING SUBGRADE.
5. ALL LEADS SHALL BE LAID AT MINIMUM 0.70% GRADE, UNLESS OTHERWISE NOTED.
6. WHEN MAKING A CONNECTION TO AN EXISTING SANITARY SEWER MANHOLE, CONTRACTOR SHALL PLUG DOWNSTREAM END OF PROPOSED SANITARY SEWER. THE SEWER SHALL REMAIN PLUGGED UNTIL FINAL ACCEPTANCE BY THE CITY.
7. CONTRACTOR SHALL PROVIDE RECORD OF LOCATION OF ALL STACKS, STUBS, LEADS, ETC. TO IDS ENGINEERING GROUP.

WATER CONSTRUCTION NOTES

- 1. SEPARATION DISTANCES FOR ALL WATER MAIN AND SANITARY SEWER MAIN CONSTRUCTION SHALL BE GOVERNED BY THE "TEXAS COMMISSION ON ENVIRONMENTAL QUALITY," SECTION 290.44, LATEST PRINTING.
2. WATER LINE TRENCHES UNDER OR WITHIN 1-FOOT OF PAVEMENT SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND COMPACTED TO 95% STANDARD PROCTOR DENSITY TO WITHIN 1 FOOT OF TOP OF SUBGRADE. INCLUDE COST OF BANK SAND BACKFILL IN UNIT PRICE BID PER LINEAR FOOT FOR WATER LINE IN APPROPRIATE SIZES.
3. WATER LINE TRENCHES NOT UNDER OR WITHIN 1 FOOT OF PAVEMENT SHALL BE BACKFILLED WITH NATIVE SOIL COMPACTED TO 95% STANDARD PROCTOR DENSITY ABOVE BANK SAND BEDDING.
4. 4-INCH THROUGH 12-INCH LINES TO HAVE A MINIMUM OF 4'-0" COVER BELOW TOP OF ROADWAY, UNLESS OTHERWISE NOTED VARY FLOWLINE UNIFORMLY FROM DEPTH SHOWN ON PLANS.

CONTACT INFORMATION

OPERATOR: BACLIFF MUD - MR JAMES WISTINGHAUSEN (281) 642-9298

STORM SEWER CONSTRUCTION NOTES

- 1. PRIOR TO STORM SEWER CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR THE ISSUANCE OF NECESSARY PERMIT/WORK ORDERS.
2. LEADS SHALL BE REINFORCED CONCRETE PIPE, C-76, CLASS III WITH RUBBER GASKETED JOINTS, AND SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH THE DETAILS.
3. ALL SEWER TRENCHES, INCLUDING TRENCHES FOR LEADS AND STUBS UNDER PAVEMENT, SHALL BE BACKFILLED WITH CEMENT-STABILIZED SAND TO A POINT 1-FOOT BELOW THE SUBGRADE TREATMENT. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL IN 6-INCH LAYERS 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 DESIGNATION D-698/AASHTO T99). MOISTURE CONTENT OF CEMENT STABILIZED BACKFILL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CEMENT-STABILIZED SAND SPECIFICATION.
4. CEMENT STABILIZED SAND BACKFILL REQUIRED FOR STORM SEWERS UNDER PAVEMENT SHALL NOT BE PAID FOR SEPARATELY. INCLUDE COST OF CEMENT STABILIZED SAND IN UNIT PRICE BID PER LINEAR FOOT FOR STORM SEWER IN APPROPRIATE SIZES.
5. PROVIDE A MINIMUM OF 1-FOOT CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS.

GEOTECHNICAL NOTES

- 1. ALL GRADING, BACKFILL, SUBGRADE PREPERATION, COMPACTION AND PAVING SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND ANY ADDENDUMS AS PREPARED BY GEOSCIENCE ENGINEERING AND TESTING, INC. DATED APRIL 25TH 2022, PROJECT NO. 22G11051.
2. EARTH BACKFILL SHALL BE COMPACTED BY MECHANICAL MEANS TO PRODUCE A DENSITY EQUAL TO THAT OF THE SURROUNDING UNDISTURBED SOIL OR IN ACCORDANCE WITH THE OWNERS GEOTECHNICAL CONSULTANT RECOMMENDATIONS, WHICHEVER IS MORE RESTRICTIVE.
3. ALL AREAS TO BE FILLED SHALL BE FREE OF VEGETATION, DEBRIS, PONDING WATER, LOOSE SOILS, MUD & MUCK. CLEARING, GRUBBING, STRIPPING & PROOF ROLLING SHALL BE PER THE GEOTECHNICAL REPORT.

PAVING CONSTRUCTION NOTES

- 1. GUIDELINES SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SHALL BE OBSERVED.
2. CONTRACTOR RESPONSIBLE FOR MAINTAINING BARRICADES TO PREVENT TRAFFIC FROM USING NEW PAVEMENT UNTIL PROJECT IS COMPLETED AND ACCEPTED BY PROPER AUTHORITY OR AS AUTHORIZED BY ENGINEER.
3. ALL SUBGRADE TO BE COMPACTED TO 95% OF STD. PROCTOR DENSITY.

UTILITY NOTES

- 1. PROVIDE 1-FOOT MINIMUM CLEARANCE BETWEEN GAS LINES AND ALL OTHER UTILITIES (NEW OR EXISTING).
2. IN THE EVENT A GAS LINE IS EXPOSED DUE TO EXCAVATION AND IS IN NEED OF RELOCATION, THE APPROPRIATE GAS COMPANY SHALL BE CONTACTED BY THE CONTRACTOR TO HAVE STATUS OF THE LINE VERIFIED PRIOR TO ANY DAMAGE OF THAT LINE. CONTRACTOR IS RESPONSIBLE FOR MAKING THE GAS COMPANY RELOCATE THE GAS LINES.
3. LOCATION OF EXISTING UNDERGROUND UTILITY SERVICE LINES (WATER, SEWER, GAS, TELEPHONE, ELECTRICAL, ETC.) ARE DETERMINED FROM AVAILABLE RECORDS. CONTRACTOR SHALL FIELD VERIFY AND LOCATE LINES AND/OR OBSTRUCTIONS PRIOR TO EXCAVATION.
4. CONTRACTOR SHALL USE CAUTION WHEN CROSSING ALL EXISTING FACILITIES, ANY DAMAGE TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE WITH NO SEPARATE PAY.

CENTERPOINT ENERGY 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 PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5463 OR (713) 945-8037 (7:00 AM TO 4:30 PM) 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) 659-3552 OR (713) 207-4200.

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

WARNING: OVERHEAD ELECTRICAL FACILITIES

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.

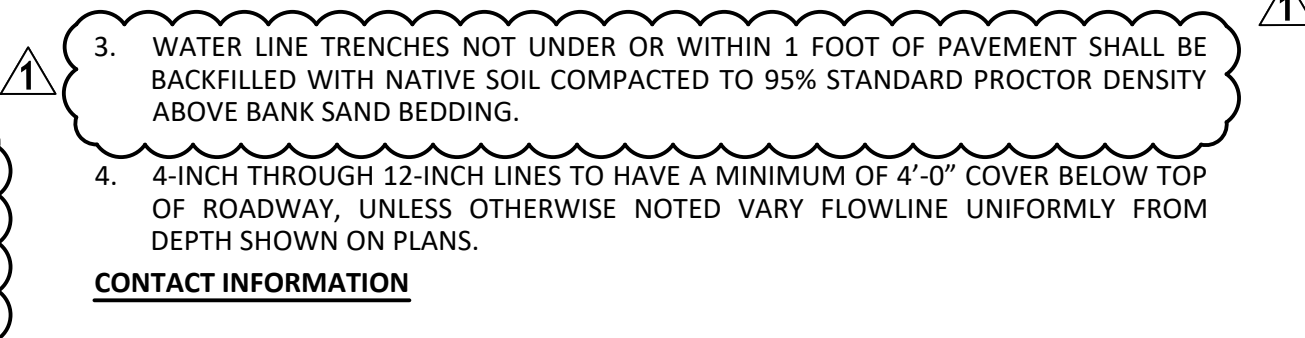
PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222.

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 SURVEY & RIGHT OF WAY DIVISION AT (713) 207-6348 OR (713) 207-5769.

FRONTIER COMMUNICATIONS NOTES

THE LOCATION OF FRONTIER FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES. THE CONTRACTOR SHALL CONTACT DIGTSS @ 800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND TELEPHONE LINES FIELD LOCATED. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF FRONTIER FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHENEVER FRONTIER FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT SHOULD BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON CABLE AND / OR CONDUIT DUCTS. CONTACT NETWORK ENGINEERING @ 281-338-2221 OR 281-229-0849 FOR QUESTIONS REGARDING FRONTIER FACILITIES.

\\dseng.com\FS\Projects\13001\3060900\Jackson Ave Paving - Drainage Imp - Phase II\CAD\DWG\PRODUCTION\CONSTRUCTION NOTES.dwg (2 CONSTRUCTION NOTES) (Printed Jul 10, 2023 at 12:08pm by jbellier) (Last Saved by jbellier)



EXISTING SYMBOL LEGEND table with columns for symbols and descriptions. Includes items like ADVERTISEMENT SIGN, 'B' INLET, BRICK PILLAR, BUSH, 'C' INLET (ALL), CABLE TV JUNCTION BOX, CABLE TV MARKER, CABLE TV UNGD. MARKER, CATCH BASIN, CENTER LINE OF STREET, CORE BORE, 'E' INLET, ELECTRICAL JUNCTION BOX, EXIST. SANITARY M H, FENCE CORNER, FENCE LINE(CHAIN LINK), FENCE LINE(WOOD), FIRE HYDRANT, FLAG POLE, GAS LAMP, GAS METER, GAS SERVICE LINE MARKER, GAS VALVE, GATE, GREASE TRAP, GUY WIRE, CENTERPOINT MANHOLE, CENTERPOINT TOWER LEG, CENTERPOINT UNGD. CABLE MARKER, LIGHT, MAIL BOX, METAL POST (BOLLARD), NOT FIELD VERIFIED - FROM RECORD DRAWINGS, OVERHEAD POWER LINES, PIPELINE MARKER, POWER POLE, PUBLIC PHONE, RADIO RELAY MAST, SANITARY CLEAN OUT, SERVICE POLE, SIGN STANDARD, S.W.B.T. M H, STORM M H, STREET BARRICADE, STREET LIGHT STANDARD, TELEPHONE POLE, TELEPHONE JUNCTION BOX, TRAFFIC SIGN, TRAFFIC SIGNAL CONTROL BOX, TRAFFIC LIGHT STANDARD, TRANSFORMER BOX, TREE, UNGD. TELE. CABLE MARKER, VENT PIPE, WATER METER, WATER VALVE, WATER WELL, WELLHEAD, DECORATIVE STREET LIGHT.

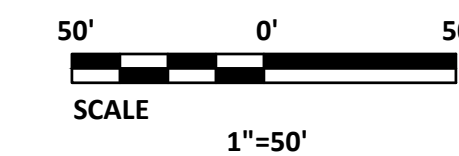
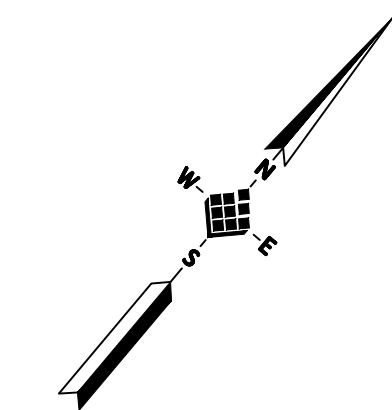
ABBREVIATIONS table with columns for symbol and description. Includes items like ASPH - ASPHALT, MH - MANHOLE, SAN - SANITARY, STM - STORM, EXIST - EXISTING, EG - EXISTING GROUND, STA - STATION, B.L. - BASELINE OR BUILDING LINE, SWR. - SEWER, DIA. - DIAMETER, EL. - ELEVATION, ROW - RIGHT-OF-WAY, L.F. - LINEAR FEET, N.G. - NATURAL GROUND, RT. - RIGHT, RP - RADIUS POINT, S.S.E. - SANITARY SEWER EASEMENT, W.L.E. - WATER LINE EASEMENT, U.E. - UTILITY EASEMENT, D.E. - DRAINAGE EASEMENT, RED - REDUCER, B/F - BLIND FLANGE, S/O - SLIP ON, B.W. - BOTTOM WIDTH, B.O.V. - BLOW OFF VALVE, P.C.C. - POINT OF COMPOUND CURVATURE, ESMT. - EASEMENT, R.J.P. - RESTRAINED JOINT PIPE, AB - ALL BELL, PROP - PROPOSED, LT. - LEFT, LT. - LEFT, C.L. - CENTER LINE, T.C. - TOP OF CURB, E.P. - EDGE OF PAVEMENT, W.L. - WATER LINE, W - WEST, E - EAST, S - SOUTH, N - NORTH, F.V. - FLUSHING VALVE, CONC. - CONCRETE, PVMT - PAVEMENT, F.L. - FLOW LINE, G.V. - GATE VALVE, PC - POINT OF CURVATURE, PT - POINT OF TANGENCY, R - RADIUS, E.O.P. - END OF PROJECT, P.R.C. - POINT OF REVERSE CURVE, P.O.C. - POINT ON CURVE, O.P.R.R.P. - OFFICIAL PUBLIC RECORDS OF REAL PROPERTY, S.S. - SIDE SLOPE, MOD. - MODIFIED, N.F.V. - NOT FIELD VERIFIED, P.A.E./P.U.E. - PUBLIC ACCESS EASEMENT PUBLIC UTILITY EASEMENT, CMP - CORRUGATED METAL PIPE, CPP - CORRUGATED PLASTIC PIPE, B.O. w/BOX - BLOW OFF VALVE WITH BOX, L.T.D. - LOAD TRANSFER DEVICE, T.P. - TOP PAVEMENT, EGL - EXISTING GRADE LINE.

ADDENDUM NO.1 table with columns for ADDENDUM NO.1, DATE, JP, RF, MK, DESCRIPTION, DATE, DWN, CHK.

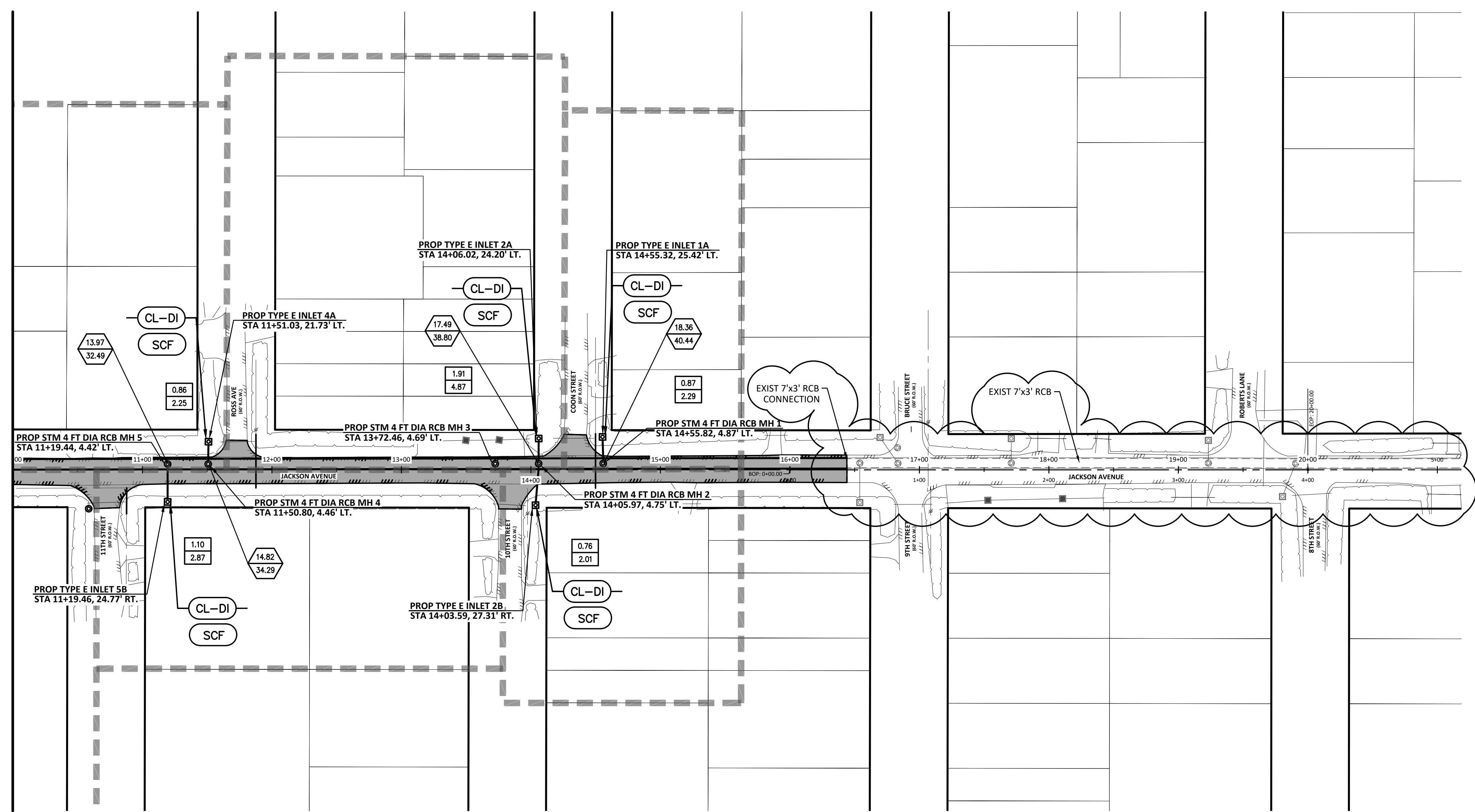
Professional Engineer seal for RICHARD A. FULLER, LICENSED PROFESSIONAL ENGINEER, 90951, dated 06/14/2023. Includes address: 13430 NW. Freeway Suite 700 Houston, Tx. 77040 713.462.3178 and contact info: TxEng Firm 2276 TxSurv Firm 10110700.

Professional Engineer seal for THE STATE OF TEXAS, COUNTY OF GALVESTON.

JACKSON AVENUE DRAINAGE IMPROVEMENTS PHASE II CONSTRUCTION NOTES. Project No.: 1306-009-00, Date: 7-01-2022, Dwn By: J.M.P., Chkd By: J.P., Scale: HORZ.: VERT.: SHEET 2 OF 26.



MATCHLINE: STA 10+00



NOTICE:

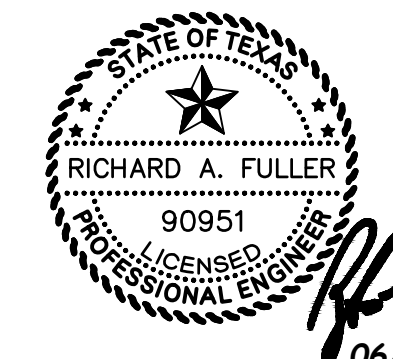
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

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

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.

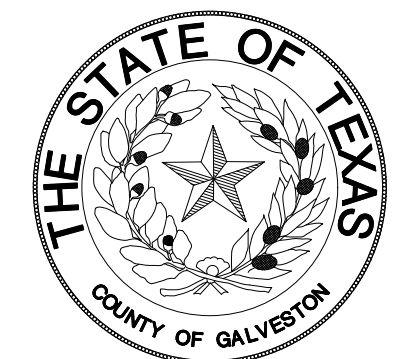
ADDENDUM NO.1	7/14/23	JP	RF
MK	DESCRIPTION	DATE	DWN. CHK.



06/14/2023

IDS Engineering Group

13430 NW Freeway Suite 700
 Houston, Tx. 77040
 713.462.3178
 TxEng Firm 2726
 TxSurv Firm 10110700

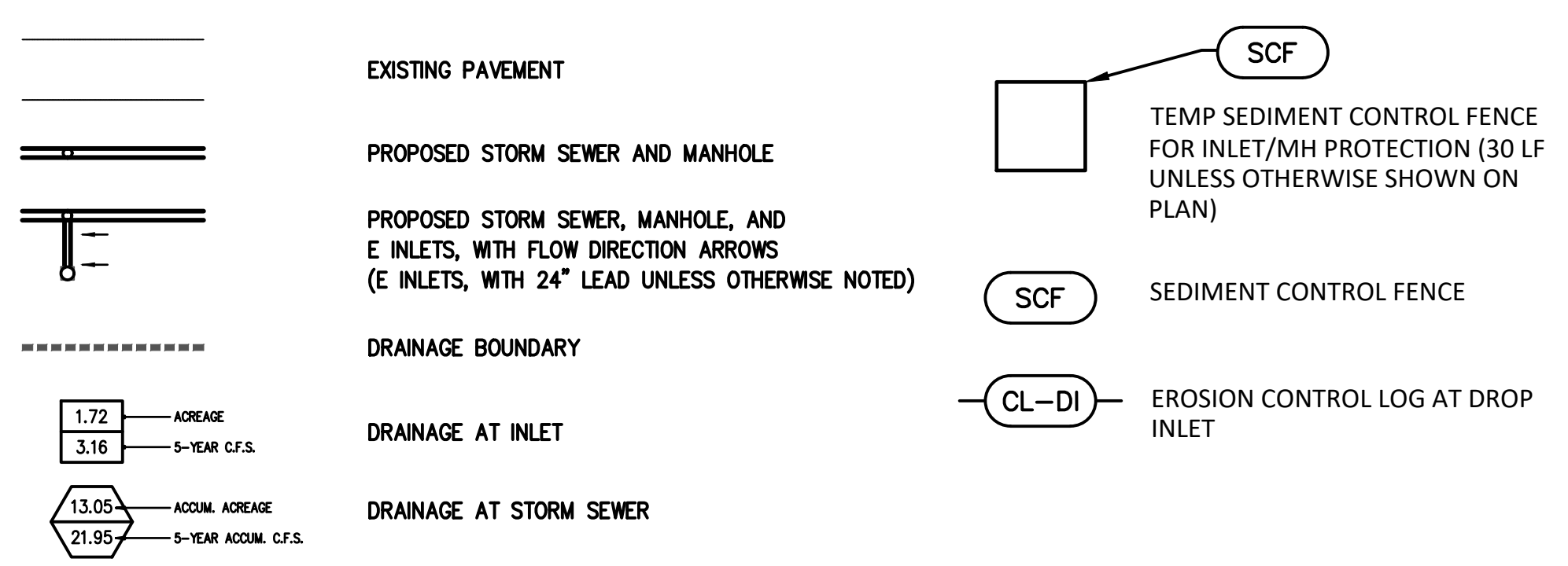


JACKSON AVENUE DRAINAGE IMPROVEMENTS PHASE II

DRAINAGE AREAS AND SWPPP SHEET 2 OF 2

Project No.: 1306-009-00	Scale: HORZ: 1"=50'	SHEET
Date: 7-01-2022	VERT: _____	8
Dwn By: J.M.P.		OF 26
Chkd By: J.P.		

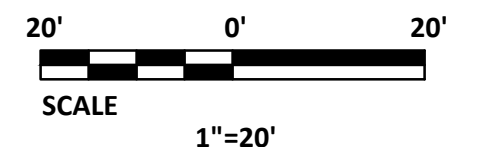
DRAINAGE AREA MAP AND SWPPP LEGEND



\\desig.com\fs\Project\13001\30600900\Jackson Ave Paving, Drainage Imp - Phase II\CADD\DWG\PRODUCTION\CADD\2-SWPPP-SHEET 2 OF 2.rvt (Last Saved by: jphuber)

MATCHLINE: STA 10+00
SEE SHEET 11

MATCHLINE: STA 15+00
SEE SHEET 13



- NOTES:
- WATER LINE TO BE REPLACED WITH NEW PVC MATCHING EXISTING O.D. NEW PIPING TO EXTEND 2' PAST EDGE OF PAVEMENT WITH NEW QUANTAM COUPLINGS (STYLE 461).
 - IF EXISTING SAN IS CLAY REPLACE WITH PVC SDR26 MATCHING EXISTING O.D. AND ENCASE WITH STEEL CASING. IF EXISTING SAN IS PVC, SAN TO REMAIN IN PLACE AND ADD SPLIT STEEL CASING. SEE DETAIL 5 ON SHEET 19.
 - REGRADE DITCHES AROUND PROP INLETS AND CULVERTS FOR POSITIVE DRAINAGE. BOTH SIDES TO MATCH INLET FLOW LINES (NO SEPARATE PAY).
 - NO SEPARATE PAY ITEM FOR DE-WATERING. DE-WATERING IS INCIDENTAL TO ITEM 402 "TRENCH EXCAVATION PROTECTION".
 - ANY WORK DONE OUTSIDE THE LIMITS SHOWN WILL BE AT THE CONTRACTOR'S EXPENSE.
- ① SEE SHEET 14 FOR CROSSING PROFILE VIEW
- WS PROP. WL OVER EXISTING SS WITH MIN. 2 FT. VERTICAL CLEARANCE:
- CENTER FULL 20 FT SECTION OF WL AT SS CROSSING WITH RESTRAINED JOINTS ON WL SPACED AT LEAST 9 FT FROM CENTERLINE OF SS. IF EXISTING SS IS DISTURBED OR THERE IS EVIDENCE OF LEAKING, REPLACE 20 FT SECTION OF EXISTING SS WITH 150 PSI PRESSURE-RATED PVC PIPE WITH ADAPTERS AND RESTRAINED JOINTS CENTERED AT WL CROSSING, AND EMBED SS WITH CEMENT STABILIZED SAND FOR TOTAL LENGTH OF 1 PIPE SEGMENT PLUS 1 FT BEYOND JOINTS AT EACH END.
- PROP ASPHALT PAVEMENT

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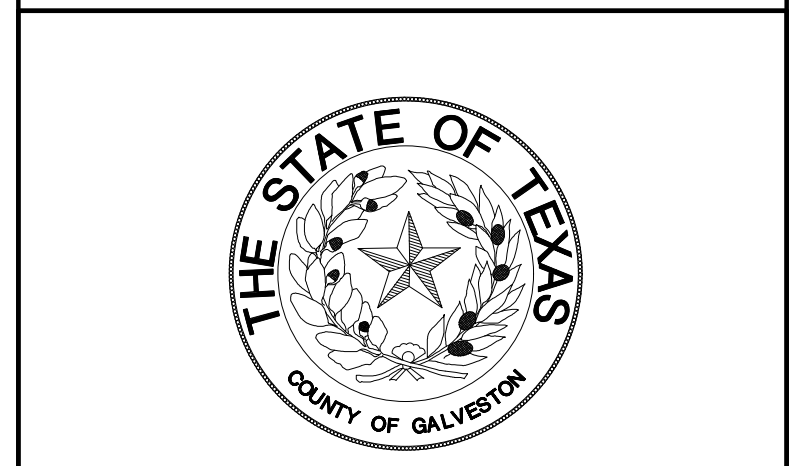
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ADDENDUM NO.1	DATE	JP	RF
	7/14/23		

MK DESCRIPTION DATE DWN. CHK.

IDS Engineering Group

13430 NW Freeway Suite 700
Houston, TX 77040
713.462.3178
TxEng Firm 2726
TxSurv Firm 10110700

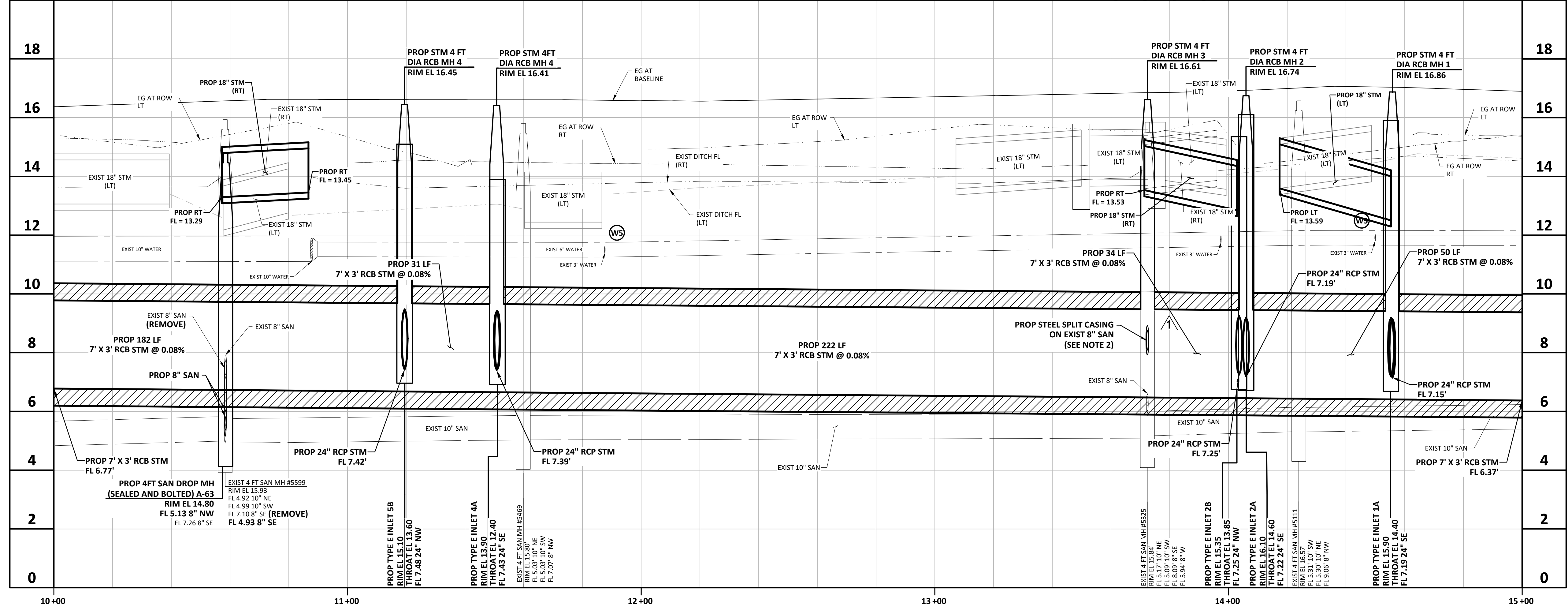


JACKSON AVENUE DRAINAGE IMPROVEMENTS PHASE II

JACKSON AVENUE PLAN AND PROFILE
STA. 10+00 TO STA. 15+00

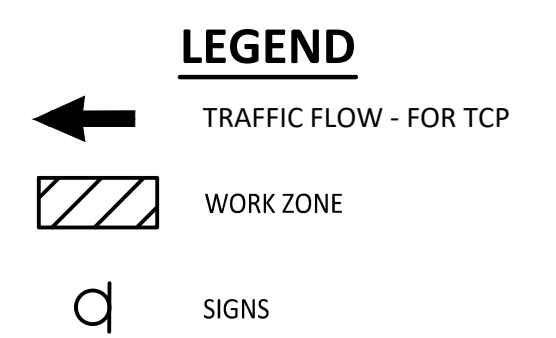
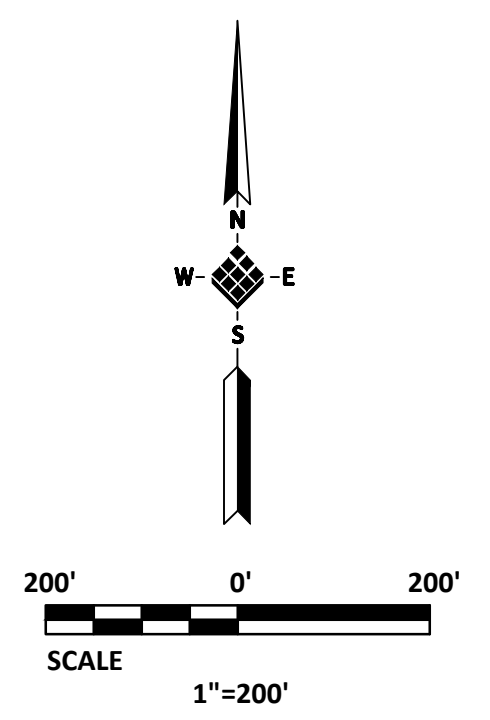
Project No.: 1306-009-00 Scale: HORZ: 1"=20'
Date: 7-01-2022 VERT: 1"=2'
Dwn By: J.M.P. SHEET 12
Chkd By: J.P. OF 26

INLET OPENINGS AND DIRECTIONS				
INLET NAME	NW	NE	SE	SW
5B		✓		✓
4A	✓	✓		✓
2A		✓		✓
2B	✓	✓		✓
1A		✓	✓	✓



\\pds01\proj\1306\130600900\Jackson Ave Drainage Imp - Phase II\CAD\DWG\PRODUCTION\CADD\JAPDIP_PFI.dwg 12 JACKSON AVE PLAN AND PROFILE - STA. 10+00 TO STA. 15+00 Printed Jul 12, 2023 11:32:20pm by jpalmer (Last Saved by: jpalmer)

\\idsgrp.com\FS\Projects\13001\3060900\JACKSON AVE PAVING - CHARGE IMP - PHASE II\CAD\DWG\PRODUCTION\DETOUR PLAN PHASE II.dwg (1) Plotted Jul 12, 2023 at 3:20pm by jbellier (Last Saved by jbellier)



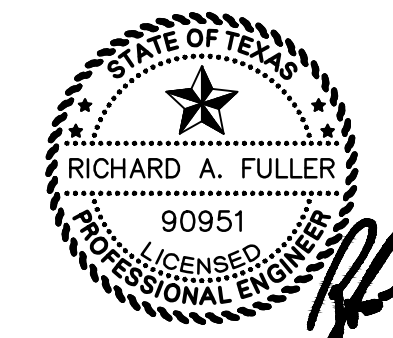
NOTICE:
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Date: _____
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	ADDENDUM NO.1	7/14/23	JP	RF
MK	DESCRIPTION	DATE	DWN.	CHK.

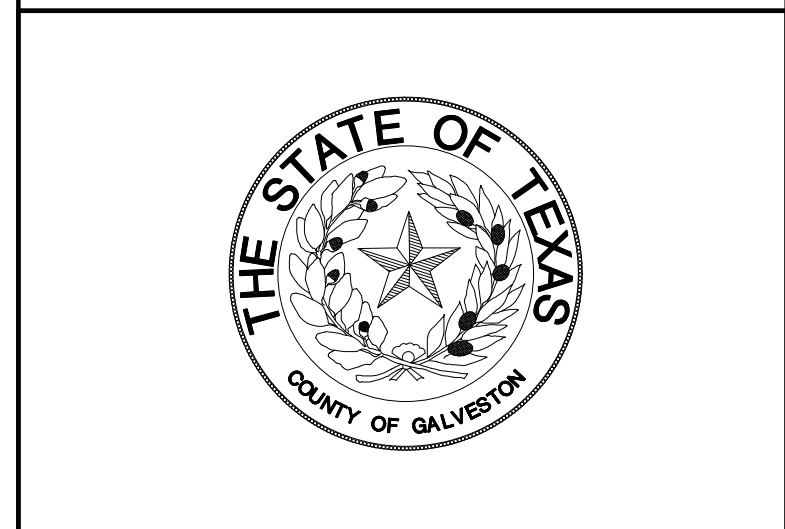


RICHARD A. FULLER
 LICENSED PROFESSIONAL ENGINEER
 90951
 06/14/2023







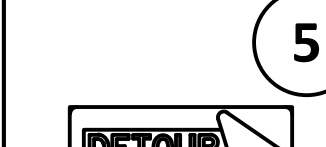



IDS
Engineering Group

13430 NW. Freeway Suite 700
Houston, Tx. 77040
713.462.3178
TxEng Firm 2726
TxSurv Firm 10110700



JACKSON AVENUE DRAINAGE IMPROVEMENTS PHASE II

DETOUR PLAN PHASE 1

							
1 CW20-1 (36"x36")	2 CW20-3 (36"x36")	3 CW20-2D (36"x36")	4 M4-8A (24"x18")	5 M4-10 (48"x18")	6 M4-10 (48"x18")	7 R11-2 (36"x18")	8 M4-12T (30"x12")

Project No.: 1306-009-00	Scale: HORZ: _____ VERT: _____	SHEET 15 OF 26
Date: 7-01-2022	Drawn By: J.M.P.	
Chkd By: J.P.		

\\pds01\proj\130013060900\Jackson Ave Paving, Drainage, Imp - Phase II\CAD\DWG\PRODUCTION\DETOUR-PLAN-PHASE 2\16 DETOUR PLAN PHASE 2.dwg (16 DETOUR PLAN PHASE 2) Plotted: Jul 10, 2023 at 12:12:20m by jpellier (Last Saved by: jpellier)



N
↑
W — E
↓
S

100' 0' 100'
SCALE 1"=100'

LEGEND

← TRAFFIC FLOW - FOR TCP

▨ WORK ZONE

ⓐ SIGNS

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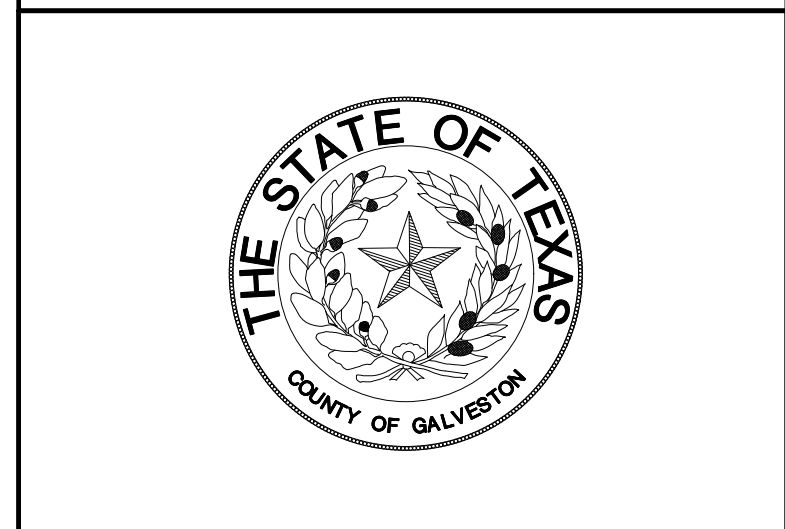
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▲	ADDENDUM NO.1	7/14/23	JP	RF
MK	DESCRIPTION	DATE	DWN.	CHK.

RICHARD A. FULLER
 90951
 LICENSED PROFESSIONAL ENGINEER
R. Fuller
 06/14/2023

IDS Engineering Group

13430 NW. Freeway Suite 700
Houston, Tx. 77040
713.462.3178
TxEng Firm 2726
TxSurv Firm 10110700

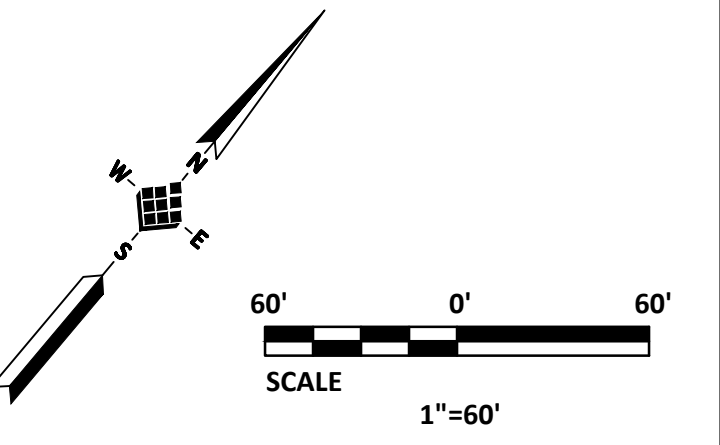


JACKSON AVENUE DRAINAGE IMPROVEMENTS PHASE II

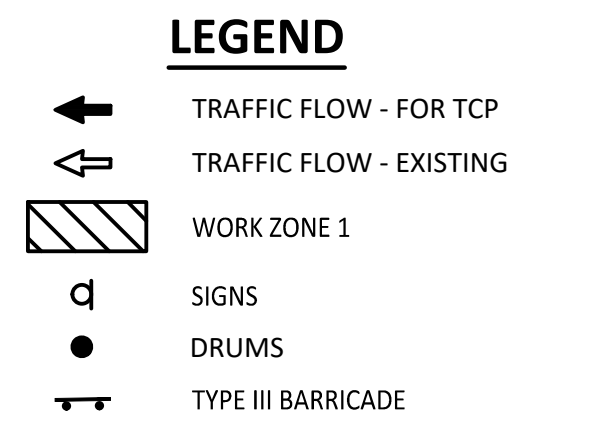
DETOUR PLAN PHASE 2

Project No.: 1306-009-00	Scale: _____	SHEET
Date: 7-01-2022	HORZ.: _____	16
Dwn By: J.M.P.	VERT.: _____	OF 26
Chkd By: J.P.		

 1 CW20-1 (36"x36")	 2 CW20-3 (36"x36")	 3 CW20-2D (36"x36")	 4 M4-8A (24"x18")	 5 M4-10 (48"x18")	 6 M4-10 (48"x18")	 7 R11-2 (36"x18")	 8 M4-12T (30"x12")
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- NOTES:**
- SEE DETOUR SHEETS AND ADVANCED WARNING SIGN SHEETS FOR ADDITIONAL SIGNAGE.
- WORK ZONE CONSTRUCTION:**
- INSTALL ADVANCE WARNING SIGNS, DETOUR SIGNS, AND TRAFFIC CONTROL SIGNS.
 - INSTALL SWPPP ITEMS.
 - CONSTRUCT STORM SEWER WITH PRE-CAST REINFORCED CONCRETE BOXES.
 - CONSTRUCT MANHOLES, INLETS, ETC.
 - BACKFILL TRENCHES PER DETAILS AND SPECIFICATION.
 - LEAVE FLEXIBLE BASE AS INTERIM ROADWAY SURFACE.
 - MILL OPPOSITE SIDE OF ROADWAY.
 - OVERLAY ENTIRE LENGTH OF ROADWAY WITH TYPE D ASPHALT PAVEMENT SURFACE.



NOTICE:
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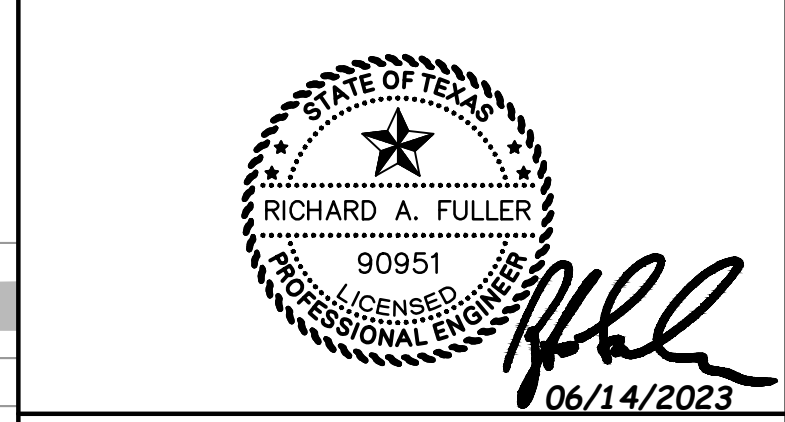
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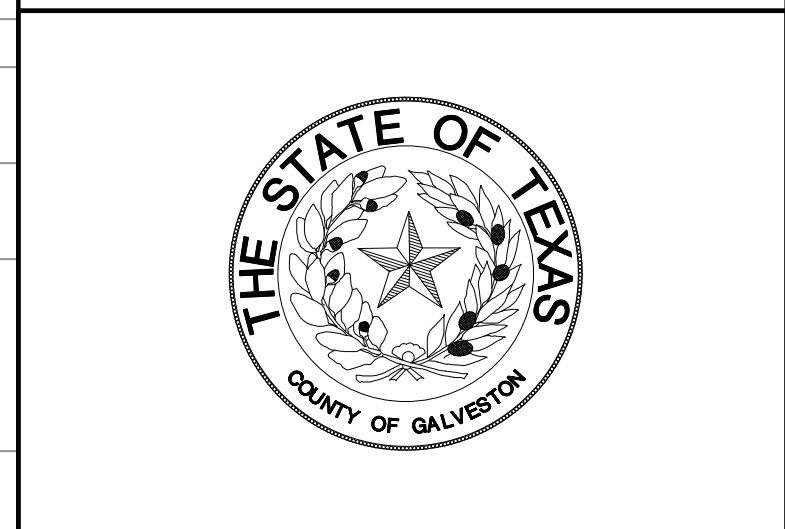
ADDENDUM NO.1	DATE	JP	RF
	7/14/23		

MK	DESCRIPTION	DATE	DWN.	CHK.



IDS Engineering Group

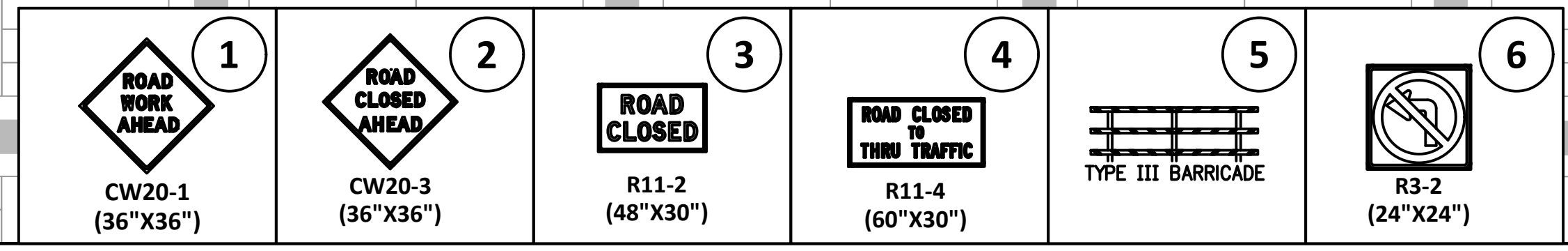
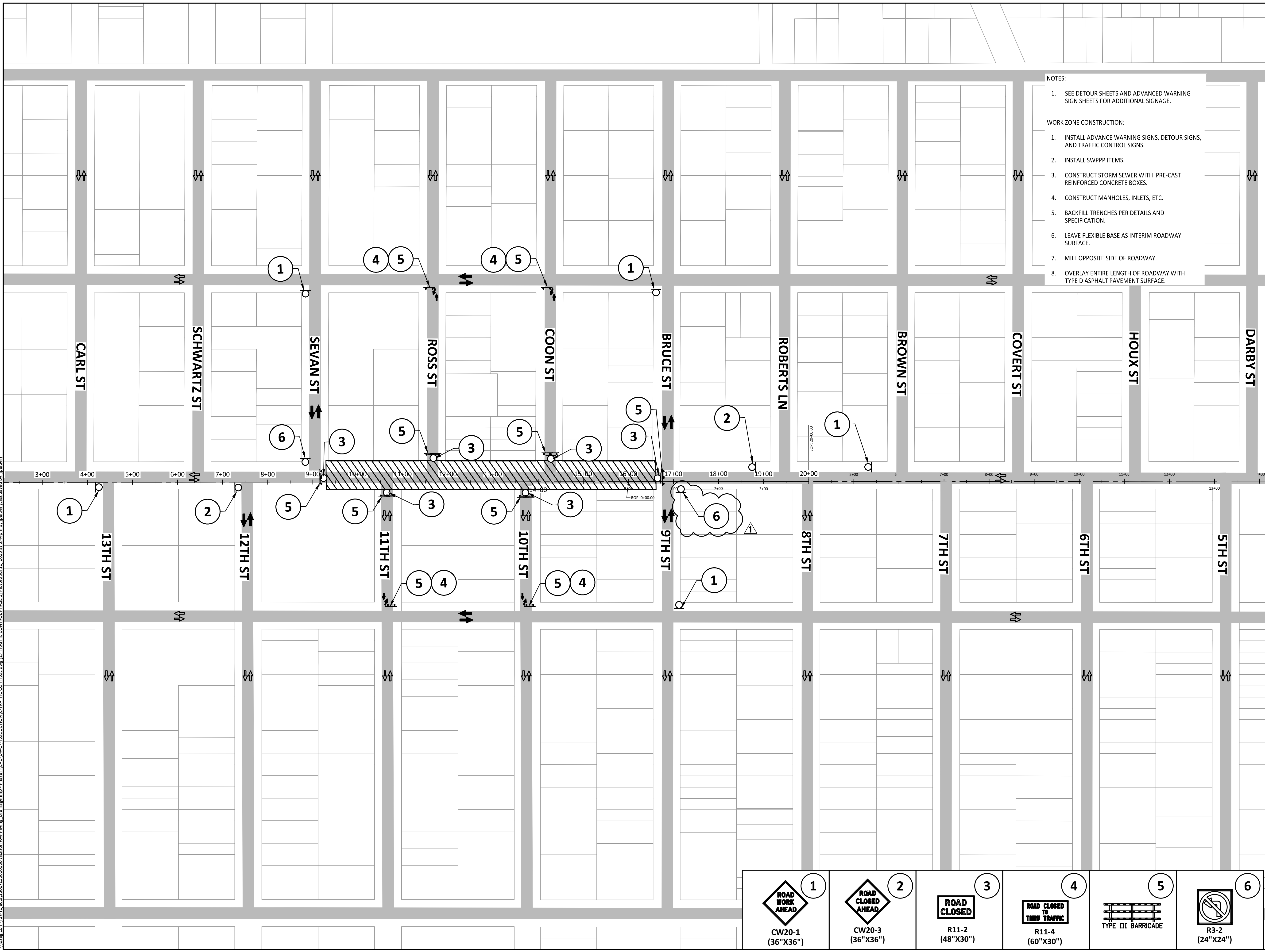
13430 NW, Freeway Suite 700
 Houston, Tx. 77040
 713.462.3178
 TxEng Firm 2726
 TxSurv Firm 10110700



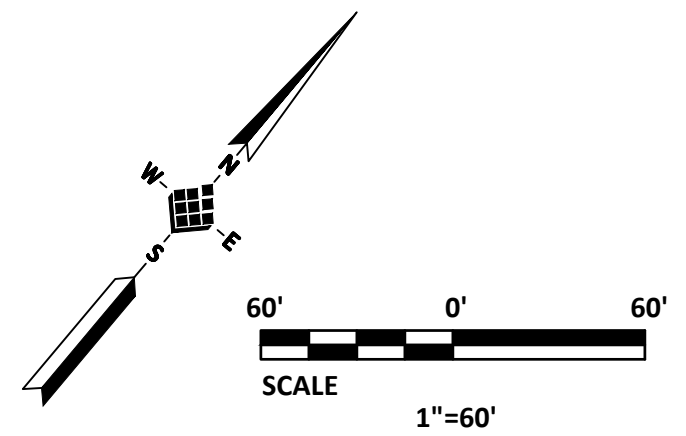
JACKSON AVENUE DRAINAGE IMPROVEMENTS PHASE II

TRAFFIC CONTROL PLAN PHASE 1

Project No.: 1306-009-00	Scale: HORIZ. VERT.:	SHEET
Date: 7-01-2022		17
Dwn By: J.M.P.		OF 26
Chkd By: J.P.		



\\pds01\fs1\Projects\1306\1306-009-00\Jackson Ave Paving, Drainage, Impo - Phase II\CAD\DWG\PRODUCTION\C\TRAFFIC CONTROL PHASE 1 Plotted Jul 12, 2023 at 3:44pm by jcollier (Last Saved by jcollier)



- NOTES:
- SEE DETOUR SHEETS AND ADVANCED WARNING SIGN SHEETS FOR ADDITIONAL SIGNAGE.
- WORK ZONE CONSTRUCTION:
- INSTALL ADVANCE WARNING SIGNS, DETOUR SIGNS, AND TRAFFIC CONTROL SIGNS.
 - INSTALL SWPPP ITEMS.
 - CONSTRUCT STORM SEWER WITH PRE-CAST REINFORCED CONCRETE BOXES.
 - CONSTRUCT MANHOLES, INLETS, ETC.
 - BACKFILL TRENCHES PER DETAILS AND SPECIFICATION.
 - LEAVE FLEXIBLE BASE AS INTERIM ROADWAY SURFACE.
 - MILL OPPOSITE SIDE OF ROADWAY.
 - OVERLAY ENTIRE LENGTH OF ROADWAY WITH TYPE D ASPHALT PAVEMENT SURFACE.

- LEGEND**
- TRAFFIC FLOW - FOR TCP
 - TRAFFIC FLOW - EXISTING
 - WORK ZONE 1
 - SIGNS
 - DRUMS
 - TYPE III BARRICADE

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ADDITIONAL NO.1	7/14/23	JP	RF
MK	DESCRIPTION	DATE	DWN. CHK.

06/14/2023

IDS Engineering Group

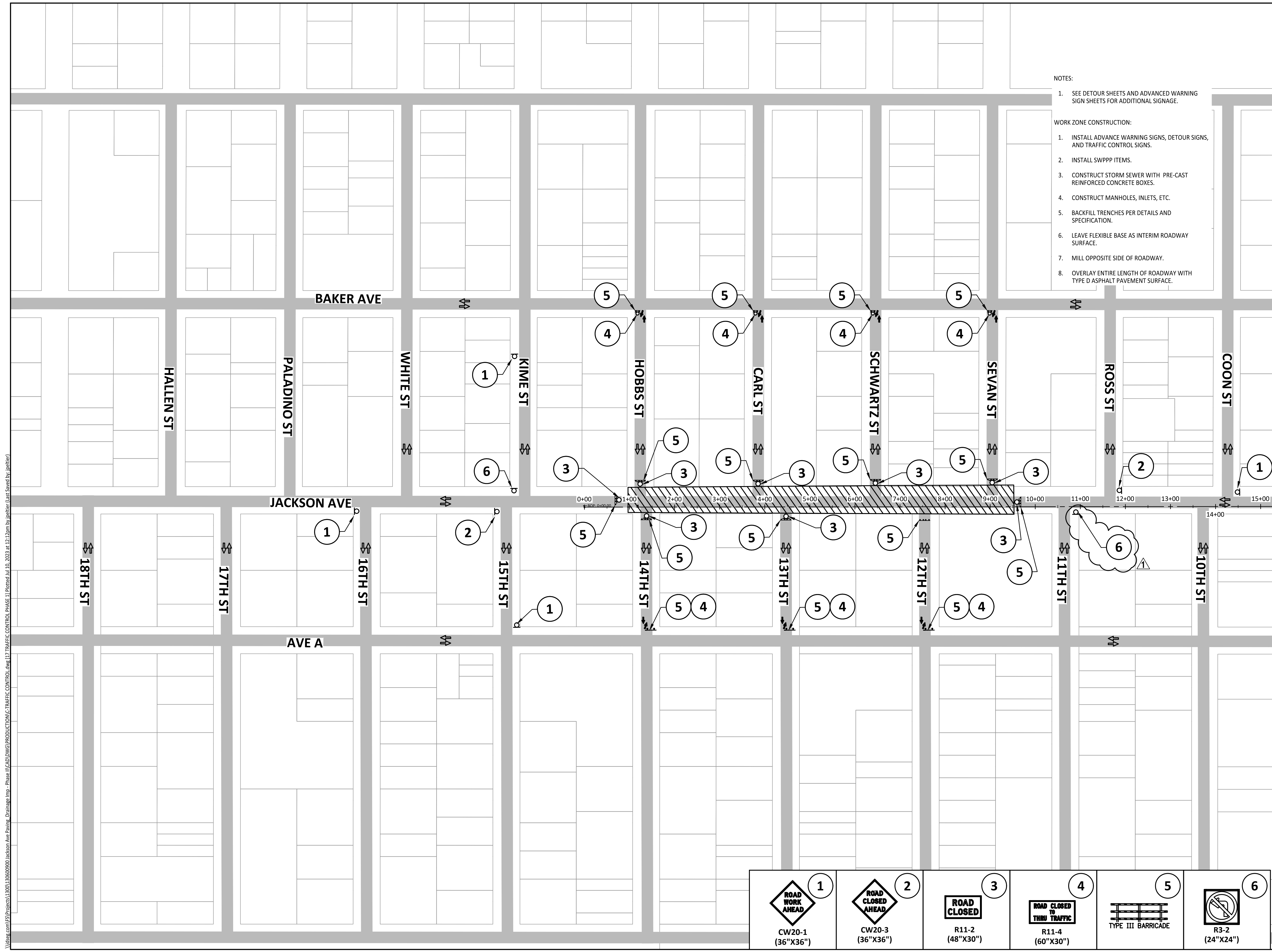
13430 NW. Freeway Suite 700
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JACKSON AVENUE DRAINAGE IMPROVEMENTS PHASE II

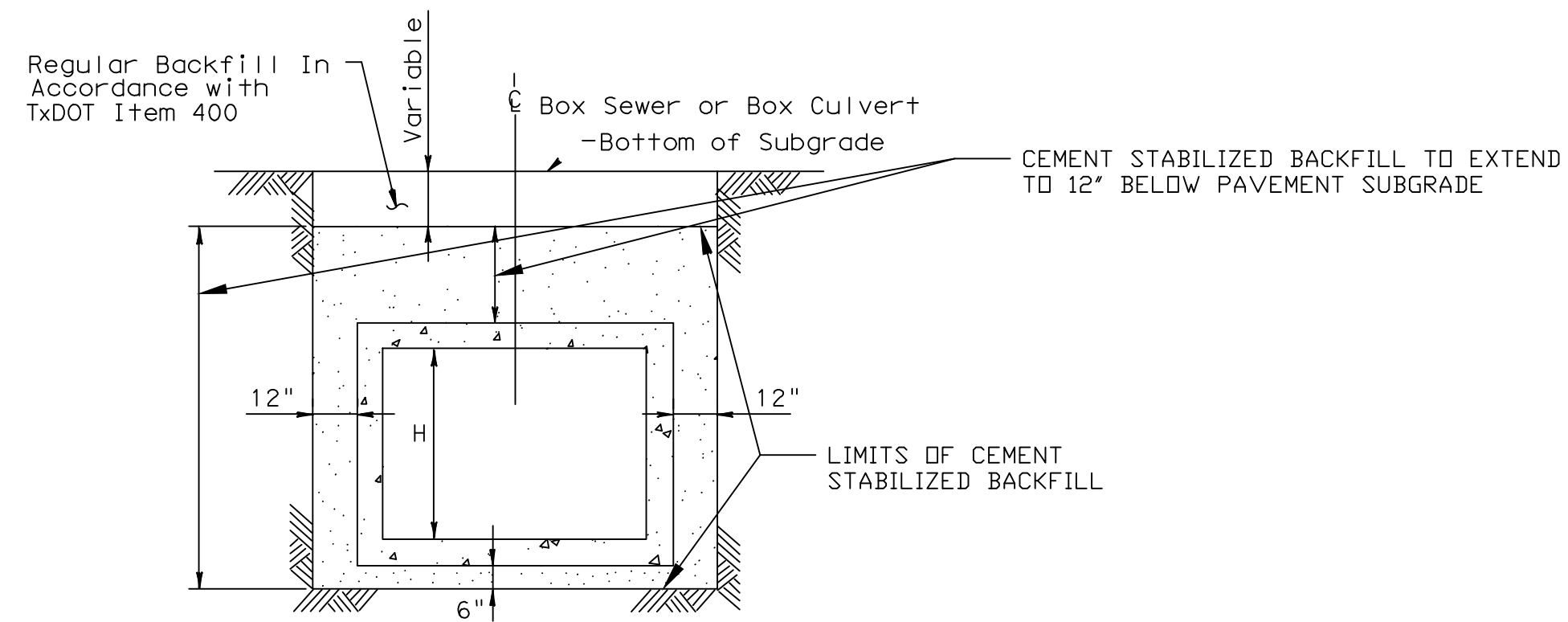
TRAFFIC CONTROL PLAN PHASE 2

Project No.: 1306-009-00	Scale: _____	SHEET
Date: 7-01-2022	HORIZ. VERT.:	18
Drawn By: J.M.P.		OF 26
Chkd By: J.P.		

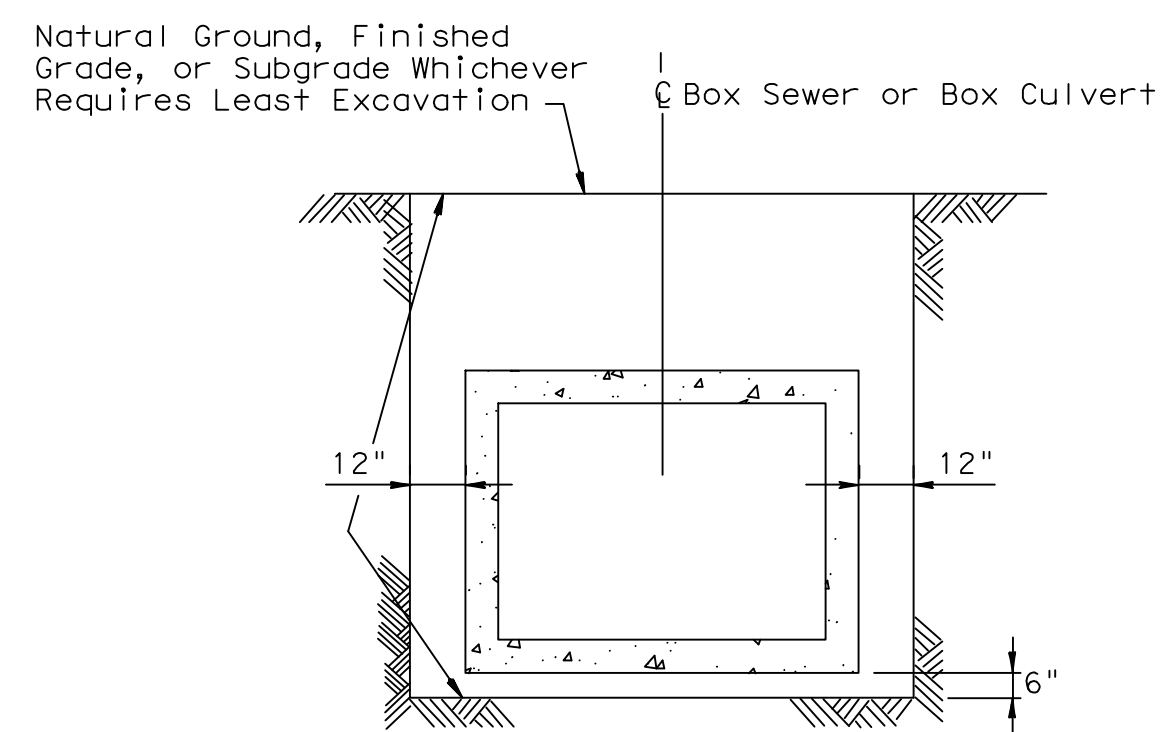


CW20-1 (36"X36")	CW20-3 (36"X36")	R11-2 (48"X30")	R11-4 (60"X30")	TYPE III BARRICADE	R3-2 (24"X24")

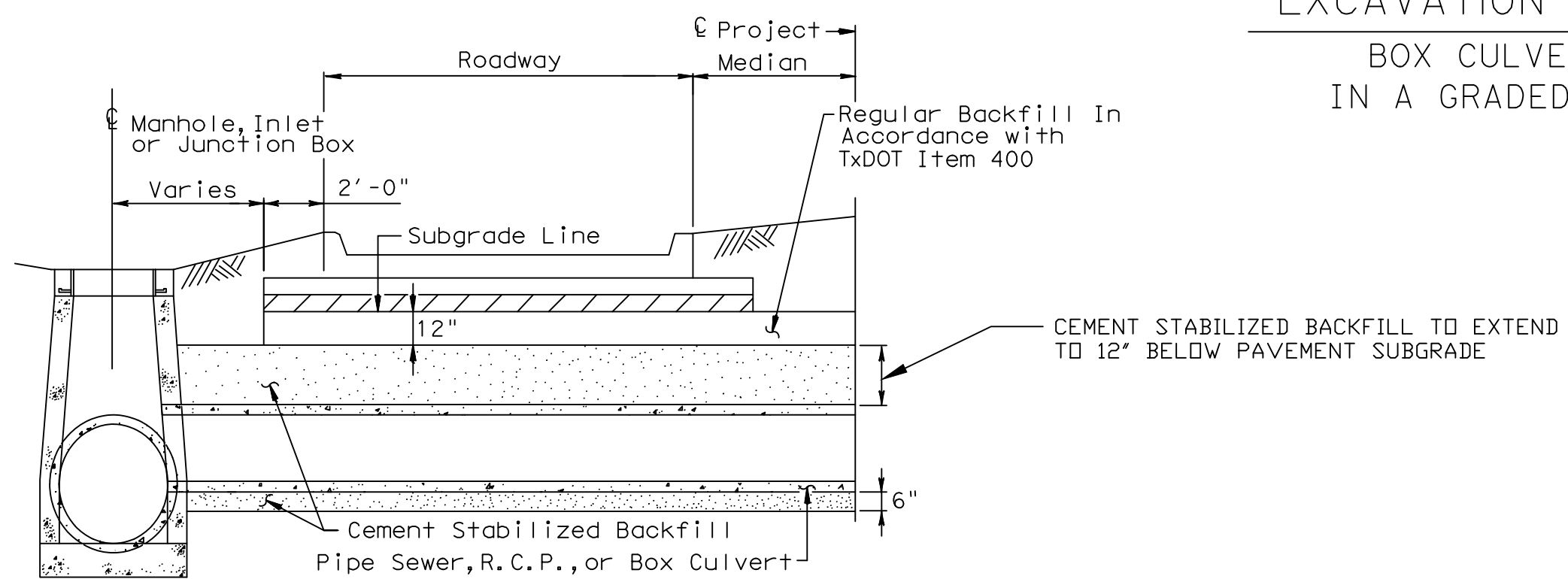
\\rseng.com\FS\Projects\1300\130600900\Jackson Ave Paving_Chainage_1.mxd - Phase II\CAD\DWG\PRODUCTION\TRAFFIC CONTROL.dwg (17 Traffic Control) Phase II Plotted Jul 10, 2023 at 12:12pm by jpehler (Last Saved by jpehler)



BACKFILL DETAIL
BOX CULVERTS
IN A GRADED OR PAVED AREA
INCLUDING DETOURS

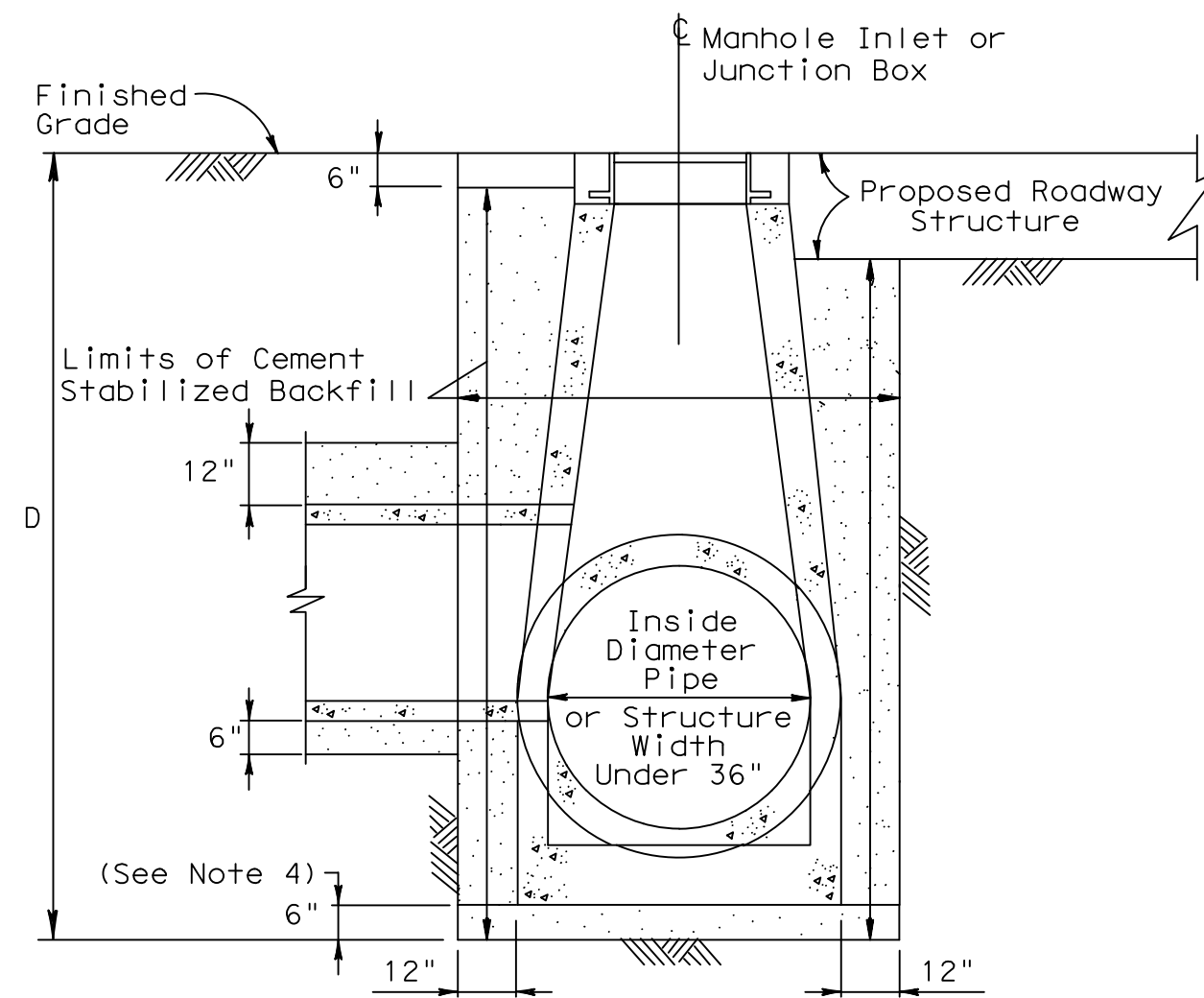


EXCAVATION DETAIL
BOX CULVERTS
IN A GRADED AREA

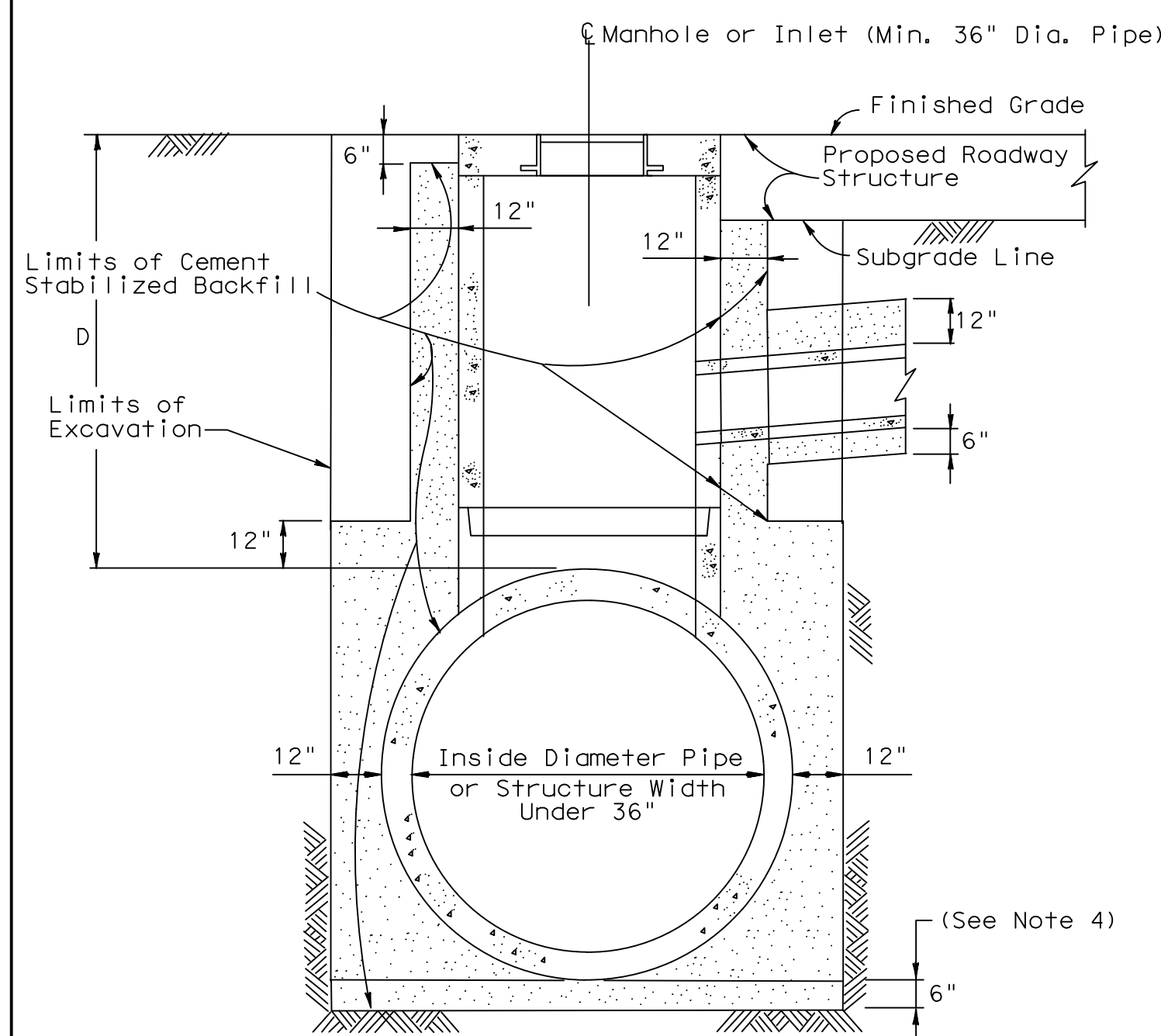


BACKFILL DETAIL
AT MANHOLE, INLET OR JUNCTION BOX

D = Depth
H = Height
T = Thickness
R = Radius
Dia = Diameter

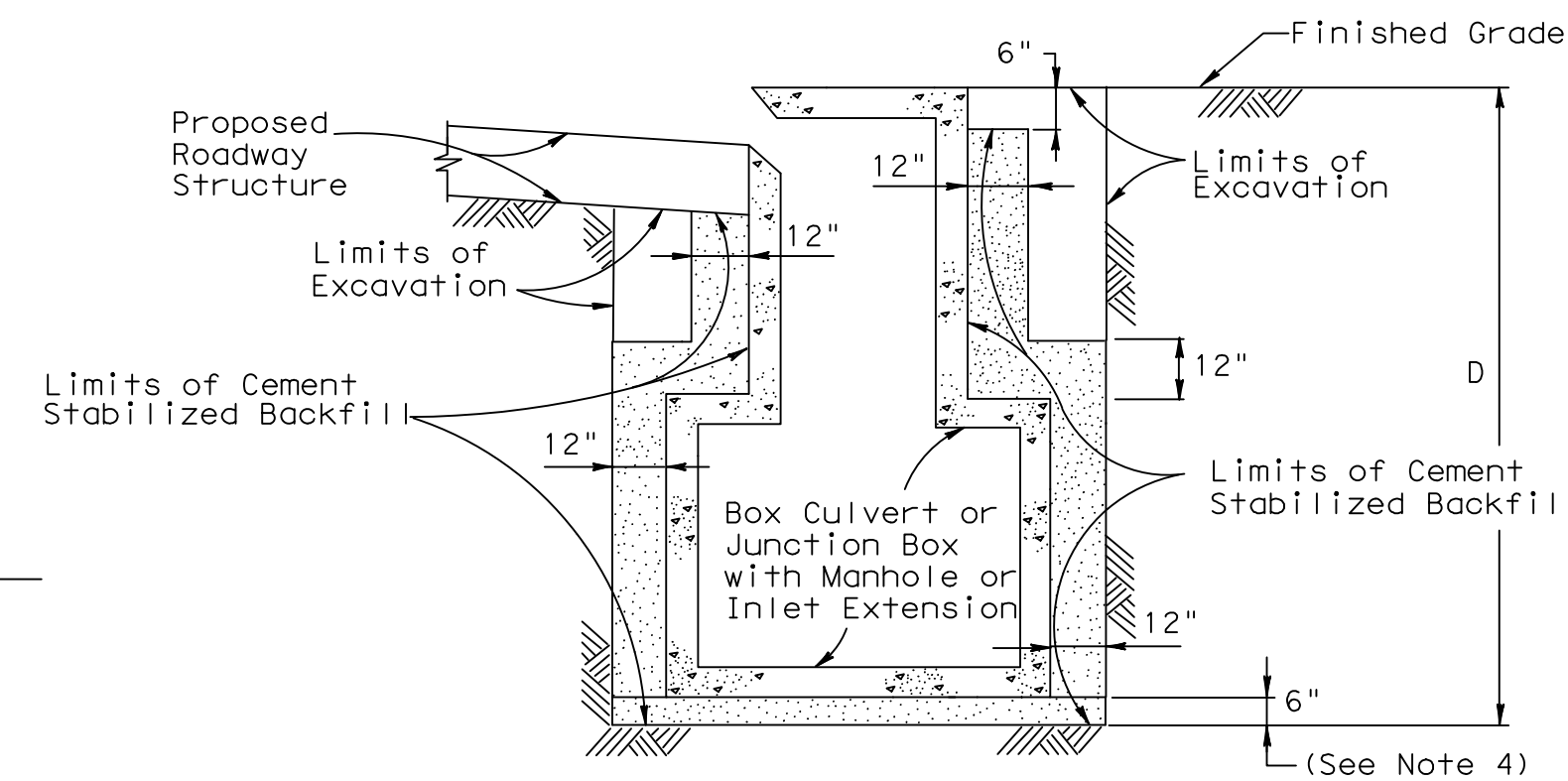


EXCAVATION AND BACKFILL DETAIL
MANHOLES SMALLER THAN 36 IN.
IN A PAVED OR GRADED AREAS
N. T. S.



EXCAVATION AND BACKFILL DETAIL
MANHOLES 36 IN. AND GREATER
IN A PAVED OR GRADED AREA
N. T. S.

D = Depth
H = Height
T = Thickness
R = Radius
Dia = Diameter



EXCAVATION AND BACKFILL DETAIL
INLET EXTENSIONS ON A BOX CULVERT
IN A PAVED OR GRADED AREA
N. T. S.

1

BACKFILL DETAIL 1 OF 2

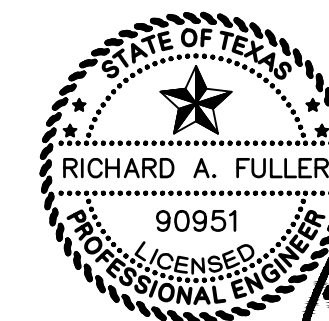
Scale: N.T.S.
File:

2

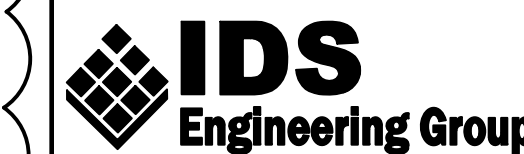
BACKFILL DETAIL 2 OF 2

Scale: N.T.S.
File:

ADDENDUM NO.1	7/14/23	JP	RF
MK	DESCRIPTION	DATE	DWN. CHK.



06/14/2023



13430 NW. Freeway Suite 700
Houston, Tx. 77040
713.462.3178
TxEng Firm 2726
TxSurv Firm 10110700



JACKSON AVENUE DRAINAGE
IMPROVEMENTS PHASE II

STORM SEWER BACKFILL
DETAILS

Project No.: 1306-009-00
Date: 7-01-2022
Dwn By: J.M.P.
Chkd By: J.P.

Scale:
HORZ.:
VERT.:



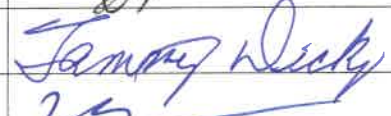

SHEET
20
OF 26

ADDENDUM NO. 1

\\desig.com\FS\Projects\13001\3060900\Jackson Ave Paving, Drainage, Imp - Phase II\CAD\DWG\PRODUCTION\CADD\MISCELLANEOUS DETAILS.dwg (D:\STORM SEWER BACKFILL DETAILS) Plotted Jul 10, 2023 at 12:12pm by jpehler (Last Saved by jpehler)

PRE-BID CONFERENCE
JACKSON AVE DRAINAGE IMPROVEMENTS – PHASE II (9TH ST. TO NORTH OF 14TH ST.)
GALVESTON COUNTY, TEXAS

The Pre-Bid Conference for ITB #B231025 will be held on Wednesday, July 5, 2023 at 10:00 a.m. at the Galveston County Courthouse, 722 Moody, (21st Street), 5th Floor, Purchasing Department, Galveston, TX 77550

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Jacquelyn Perez		Purchasing		409 770.5371
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Travis Sellers				