

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 28 day of FEBRUARY, 2012, before the Fort Bend Commissioners Court came on to be heard and reviewed the accompanying notice of TEXAS STERLING CONSTRUCTION { for CITY OF SUGAR LAND }

Job Location VOSS ROAD

Dated 02/08/12 BOND NO. 105694581 Permit No. 84099

to make use of certain Fort Bend County property subject to, "A Revised Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, date the 3rd day of August, 1987, recorded in Volume _____ of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Article 1436a, Vernon's Texas Civil Statues. Upon Motion of Commissioner Meyers, seconded by Commissioner Prestage, duly put and carried, it is ORDERED, ADJUGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. When construction is completed and ready for final inspection

Mail notices to: Permit Administrator
Fort Bend County Engineering
P.O. Box 1449
Rosenberg, Texas 77471
281-633-7500

3. This permit expires one (1) year from date of permit if construction has not commenced.

By [Signature]
County Engineer

By _____
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.
Recorded in Volume 2-28-12
Minutes of Commissioners Court.

Clerk of Commissioners Court
By [Signature]
Deputy

**PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROADS**

AUTHORIZED

BOND NO 105694581

THE STATE OF TEXAS §

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND §

THAT WE, Texas Sterling Construction Co. whose address is 20810 Fernbush, Houston TX 77073, Texas, hereinafter called the Principal, and Travelers Casualty and Surety Company, a Corporation existing under and by virtue of the laws of the State of CT and authorized to do an indemnifying business in the State of Texas, and whose principal office is located at One Tower Square, Hartford CT 06183, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought within said State is Scott Coyette and whose address is 1301 E. Collins Blvd. Ste. 340, Richardson TX 75081, hereinafter called the Surety, and held and firmly bound unto, Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, in the full sum of Two Hundred Twelve Thousand Five Hundred Dollars (\$212,502.09) current, lawful money of the United States of America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the above bounden principal contemplates laying, constructing, maintaining and/or repairing one or more cables, conduits, and/or pole lines in, under, across and/or along roads, streets and highways in the County of Fort Bend, and the State of Texas, under the jurisdiction of the Commissioners' Court of Fort Bend County, Texas, pursuant to the Commissioners' Court order adopted on the 1st day of December, A.D. 1980, recorded in Volume 13, of the Commissioners' Court Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is hereby referred to and made a part hereof for all purposes as though fully set out herein;

AND WHEREAS, the principal desires to provide Fort Bend County with a performance bond covering all such cable, conduit and/or pole line activity;

NOW, THEREFORE, if the above bounden principal shall faithfully perform all its cable, conduit and/or pole line activity (including, but not limited to the laying, construction, maintenance and/or repair of cables, conduits and/or pole lines) in, under, across and/or along roads, streets and highways in the County of Fort Bend and State of Texas, under the jurisdiction of the Commissioners Court of Fort Bend County, Texas, pursuant to and in accordance with minimum requirements and conditions of the above mentioned Commissioners' Court order set forth and specified to be by said principal done and performed, at the time and in the manner therein specified, and shall pay over and make good and reimburse Fort Bend County, all loss and damages which Fort Bend County may sustain by reason of any failure or default on the part of said principal, then this obligation shall be null and void, otherwise to remain in full force and effect.


This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas.

It is understood that at any time Fort Bend County deems itself insecure under this bond, it may require further and/or additional bonds of the principal.

EXECUTED this 26th day of January, 2012.

Texas Sterling Construction Co.

PRINCIPAL



BY

Travelers Casualty and Surety Company

SURETY



BY Kathleen M. Irelan
Attorney-in-Fact



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 221694

Certificate No. 004420520

KNOW ALL MEN BY THESE PRESENTS: That St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company and St. Paul Mercury Insurance Company are corporations duly organized under the laws of the State of Minnesota, that Farmington Casualty Company, Travelers Casualty and Surety Company, and Travelers Casualty and Surety Company of America are corporations duly organized under the laws of the State of Connecticut, that United States Fidelity and Guaranty Company is a corporation duly organized under the laws of the State of Maryland, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Ian J. Donald, Jeffrey A. Chandler, Kathleen M. Irelan, Robert Trobec, Alan P. Chandler, and Chad Teague

of the City of Troy, State of Michigan, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 18th day of July, 2011.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: [Signature]
George W. Thompson, Senior Vice President

On this the 18th day of July, 2011, before me personally appeared George W. Thompson, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.
My Commission expires the 30th day of June, 2016.



[Signature]
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 20th day of January, 20 12


Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

**NOTICE OF PROPOSED CABLE, CONDUIT AND/OR POLE LINE ACTIVITY
IN, UNDER, ACROSS OR ALONG ROADS, STREETS, HIGHWAYS AND DRAINAGE DITCHES
IN FORT BEND COUNTY**

APPLICANT'S JOB NO. _____
 PERMIT No. 84099 PCT. No. 4
 BOND No. 105694581

Formal notice is hereby given that Texas Sterling Construction (for City of Sugar Land) proposes to lay, construct, maintain and/or repair cable, conduit and/or pole line, in, under, across, or along roads, streets, highways and drainage ditches in Fort Bend County, as follows:

In, Under, or Across Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction			
			Bored:	Jacked:	Driven:	Cased

Along Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	To	Distance
Voss Rd	~800 LF east of SH6	~800 LF west of Burney	~2300 LF

General Description

Installation of 36" diameter waterline in the median.

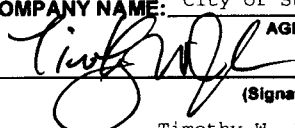
The Location and description of the proposed installation and appurtenances is more fully shown on the attached detail drawings. The laying, construction, maintenance and/or repair of the proposed installation shall be subject to "A Revised Order Regulating the Laying, Construction, Maintenance and/or Repair of Cables, Conduits, and/or Pole Lines, In, Under, Across, or Along Roads, Streets, Highways and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by Commissioners Court of Fort Bend County, Texas, dated the 3rd. day of August, 1987, recorded in Volume 639 of the Minutes of the Commissioners Court of Fort Bend County, Texas.

Written notices are required: 1) 48 hours in advance of start of construction and
 2) when construction is complete and ready for final inspection.

Mail to: Permit Administrator/Fort Bend County Engineering
 P.O. Box 1449, Rosenberg, TX 77471.

Violation of requirements shall constitute grounds for job shut down.

COMPANY NAME: City of Sugar Land

 AGENT and/or OWNER


 (Signature)
 NAME & TITLE Timothy W. Jahn, P.E., Senior Eng.

 (Please Print)
 DATE 02/06/12

 ADDRESS 2700 Town Center Blvd. North

 (Street/P.O. Box)
Sugar Land TX 77479

 City State Zip
 TELEPHONE NO: 281/275-2472

 (accessible 24 hrs/day, 7 days/week)

<p align="center">Does project comply with Fort Bend County Outdoor Lighting Ordinance?</p> <p>Yes ()</p> <p>No ()</p>

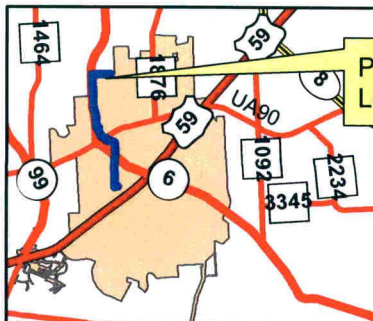


Legend

— Prop 36" WL



0 500 1,000
Feet



CITY OF SUGAR LAND
36" WATERLINE ALONG
VOSS RD., SH 6 & DITCH H
Key Map 567H



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY

CITY OF SUGAR LAND, TEXAS

36" SURFACE WATER LINE ALONG VOSS RD., HIGHWAY 6 AND DITCH H FROM VOSS RD. TO FIRST COLONY WATER PLANT

CIP PROJECT NO. SW0801

OCTOBER 2011



MAYOR
JAMES A. THOMPSON

CITY COUNCIL

DONALD L. SMITHERS DISTRICT 1	BRIDGET YEUNG DISTRICT 2
AMY MITCHELL DISTRICT 3	HARISH JAJOO DISTRICT 4
THOMAS ABRAHAM AT-LARGE 1	JACQUELINE BALLY CHAUMETTE AT-LARGE 2

CITY MANAGER
ALLEN BOGARD



IGN
**Lockwood, Andrews
& Newnam, Inc.**
A LEO A DALY COMPANY
8825 Steepbank Drive Houston, TX 77042

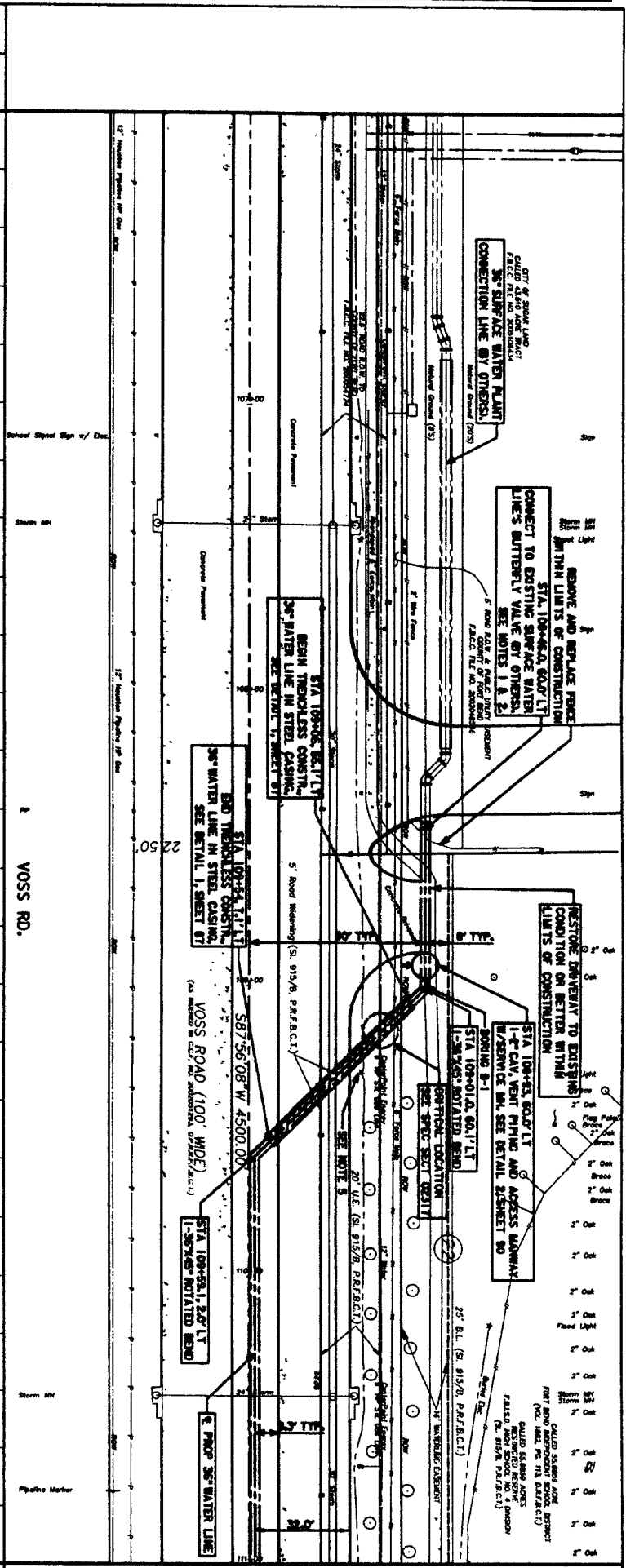
APPROVED
CITY OF SUGAR LAND

Chris Steubing
CITY ENGINEER
CHRISTOPHER L. STEUBING, P.E., CFM



VICINITY MAP
SCALE: 1" = 3,000'
KEY MAP NO. 998 E, J, K, L

ISSUED FOR BID

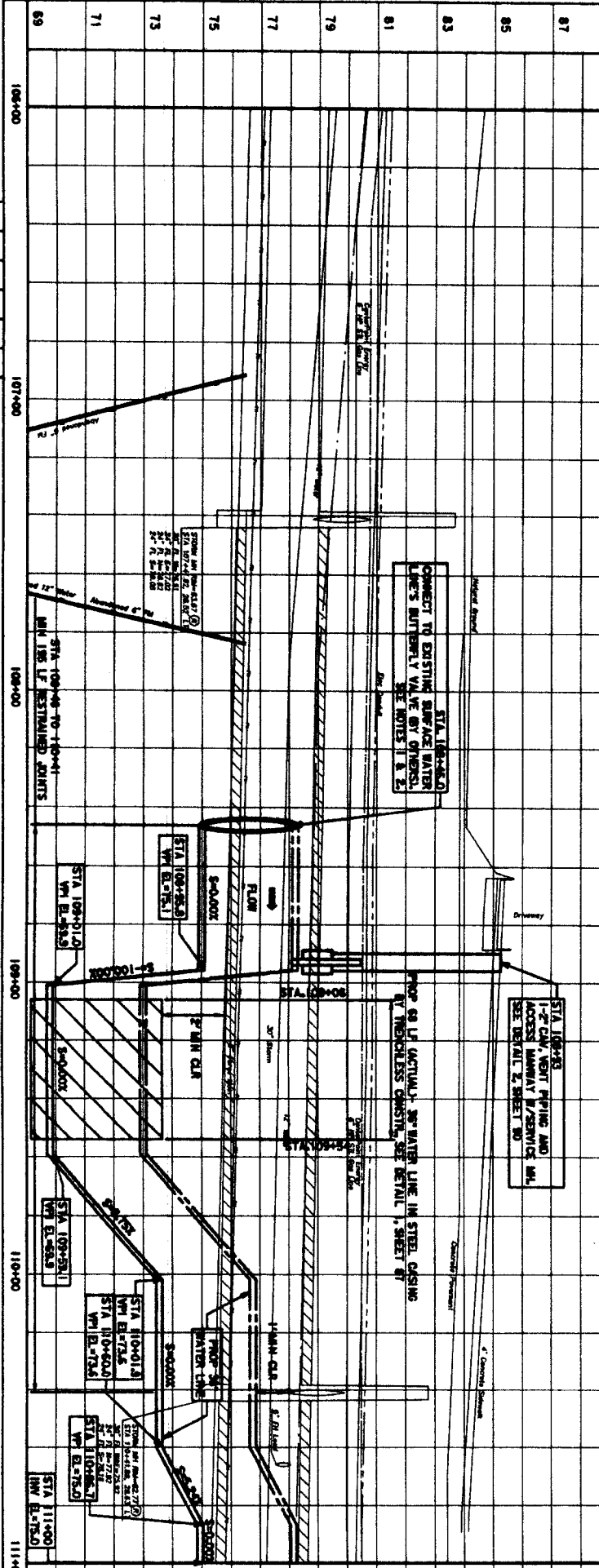


NOTES:

1. INSTALL INTERNAL ELLIPTICAL RIBBED HEAD PILE IF PROPOSED SURFACE WATER PLANT CONNECTION IS NOT EXISTING AT THE TIME OF CONSTRUCTION. IF SURFACE WATER PLANT CONNECTION EXISTS AT TIME OF CONSTRUCTION REMOVE PILE FROM EXISTING LINE AFTER SUCCESSFUL HYDROSTATIC TESTING.
2. FIELD VERIFY WATER LINE CONNECTION TO PROPOSED SURFACE WATER PLANT (SEE EXISTING CONSTRUCTION PLANS, LINE AND/OR GRADE TO ASSURE AS PROXIM TO THE PLANT AS NECESSARY TO CONSTRUCT RISE MAIN SCHOOL.
3. RISE MAIN IS TO BE CONSTRUCTED WITH SCHOOL REPRESENTATIVES AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. SEE SPEC 01110.
4. COORDINATE WITH POWER PROVIDERS TO SPACE AND SUPPORT LIGHT POLES AS NECESSARY.
5. FIELD VERIFY ALL UTILITIES DEPTH AND LOCATION PRIOR TO START OF CONSTRUCTION.

PRIVATE UTILITY LINES SHOWN

DATE: 10/11/11
DRAWN BY: [Signature]
CHECKED BY: [Signature]



Match Line STA. 111+00

NOTES:

1. INSTALL INTERNAL ELLIPTICAL RIBBED HEAD PILE IF PROPOSED SURFACE WATER PLANT CONNECTION IS NOT EXISTING AT THE TIME OF CONSTRUCTION. IF SURFACE WATER PLANT CONNECTION EXISTS AT TIME OF CONSTRUCTION REMOVE PILE FROM EXISTING LINE AFTER SUCCESSFUL HYDROSTATIC TESTING.
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PRIVATE UTILITY LINES SHOWN

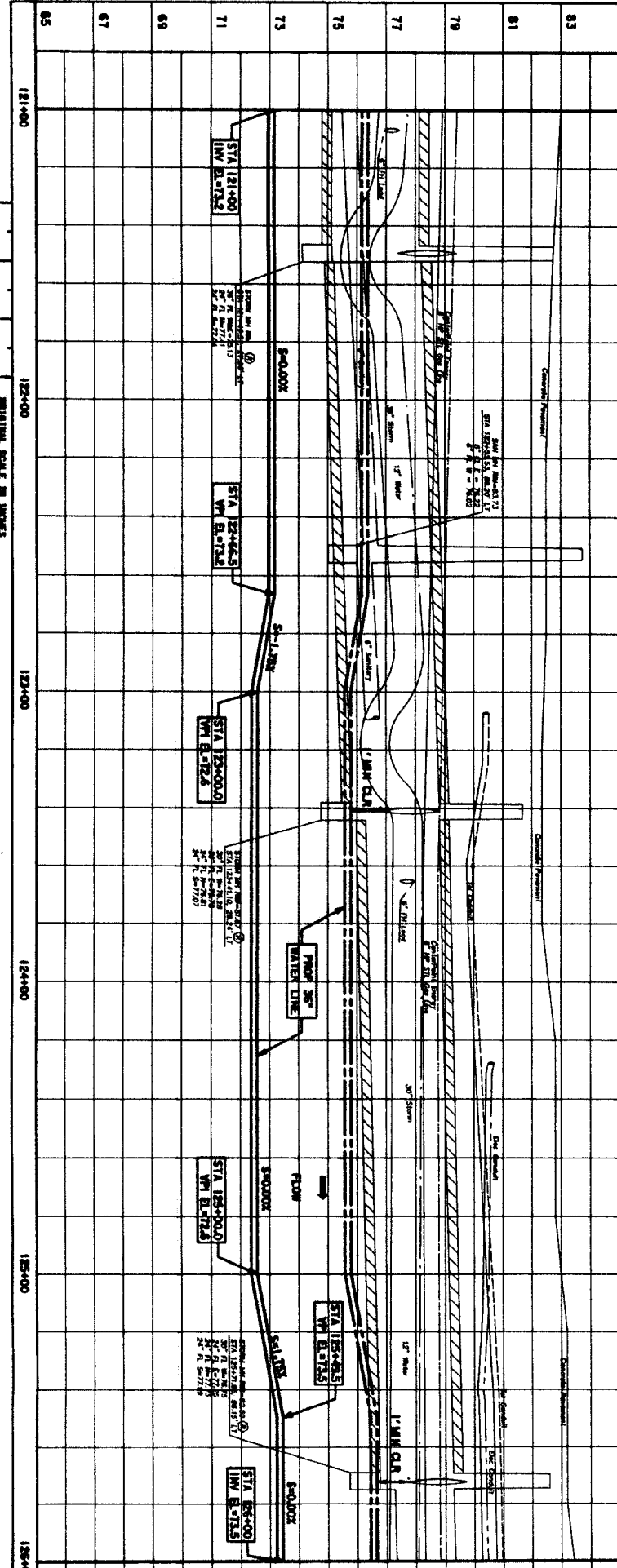
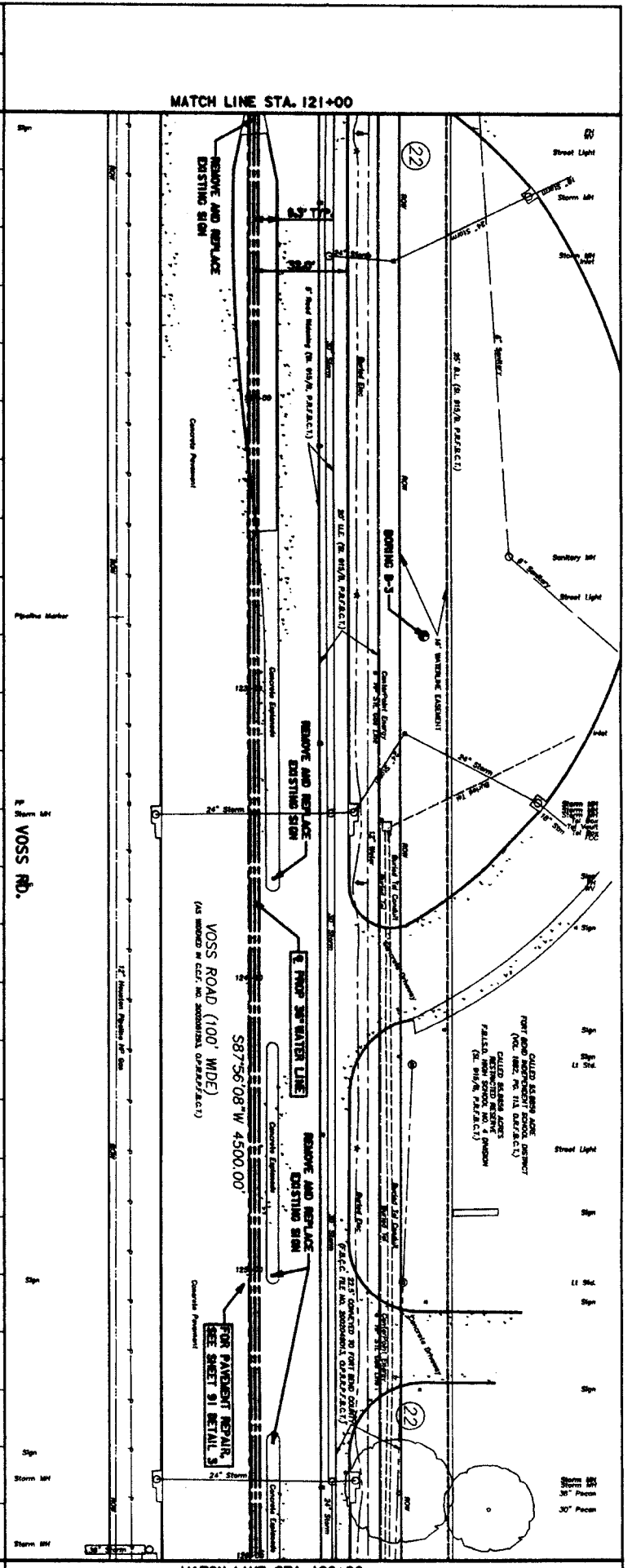
DATE: 10/11/11
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CHECKED BY: [Signature]

City of Sugar Land, Texas

Lockwood, Andrews & Newman, Inc.

CONSTRUCTION PLANS FOR: 3\"/>

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



- NOTES
1. COORDINATE WITH DENVER HIGH SCHOOL REPRESENTATIVES AT LEAST 30 DAYS PRIOR TO CONSTRUCTION. SEE SPEC 0110 AND 2. FIELD VERIFY ALL UTILITIES DEPTH AND LOCATION PRIOR TO START OF CONSTRUCTION.

NOTICE: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SUGAR LAND SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF SUGAR LAND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF SUGAR LAND.

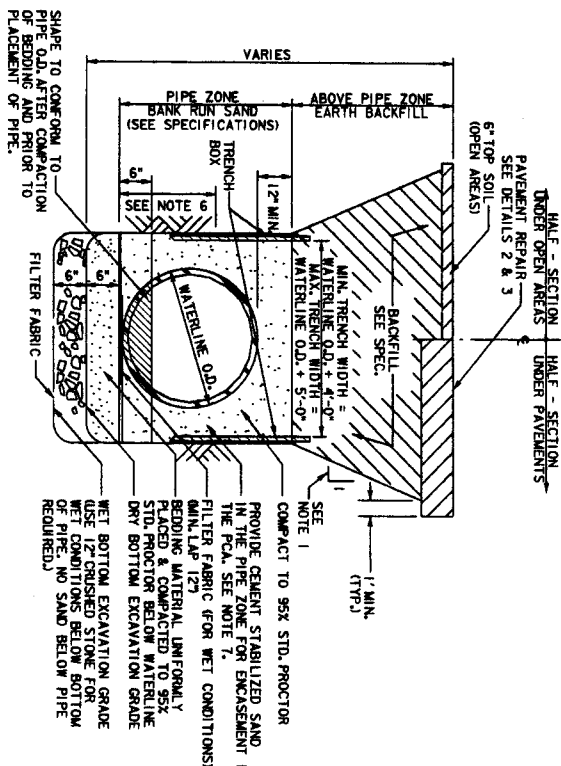
IGN Lockwood, Andrews & Newman, Inc.
12000 WEST 12TH STREET, SUITE 100
DALLAS, TEXAS 75244-1200
TEL: 972-241-1000 FAX: 972-241-1001

CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR
3" SURFACE WATER LINE TO
FIRST COLONY WATER PLANT

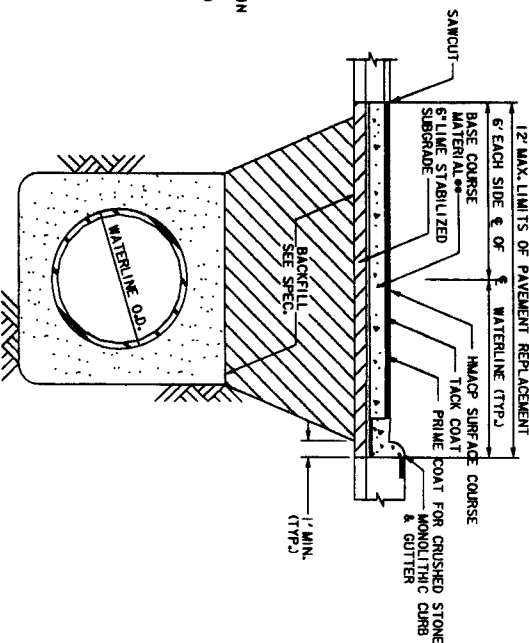
VOSS RD
PLAN & PROFILE
STA. 121+00 TO 126+00

NO. 19 OF 122



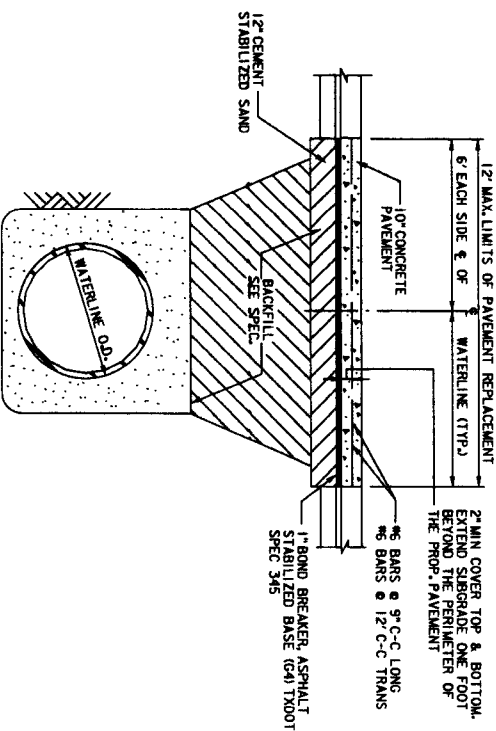
1 EXCAVATION & BACKFILL DETAIL FOR LARGE DIAMETER WATER LINE

- NOTES:
1. SEE TRENCH SAFETY SYSTEM SPECIFICATIONS FOR MAXIMUM ALLOWABLE SLOPES.
 2. FOR WET BOTTOM EXCAVATION LIMITS OF CRUSHED STONE, EXTEND AS SHOWN.
 3. KEY CONCRETE TRENCH DAM MINIMUM OF 6 INCHES INTO TRENCH BOTTOM AND WALLS.
 4. TRENCH DAM MAY BE FORMED OR UNFORMED. ACTUAL SHAPE OF CONCRETE TRENCH DAM CROSS SECTION MAY BE DETERMINED BY CONTRACTOR IN FIELD. MINIMUM THICKNESS AND 6-INCH KEY DEPTH REQUIREMENTS.
 5. MINIMUM THICKNESS AND 6-INCH KEY DEPTH REQUIREMENTS.
 6. THIS PORTION OF PIPE EMBEDMENT ZONE MUST BE RECOMPACTED TO PROPER DENSITIES AFTER MOVING SUPPORT SYSTEM FORWARD.
 7. USE FILTER FABRIC AS A BOND BREAKER BETWEEN CEMENT STABILIZED SAND AND PIPE.



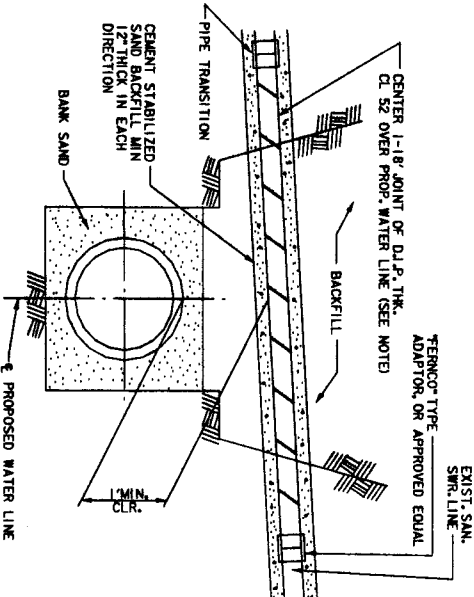
2 TYPICAL REPAIR OF FLEXIBLE BASE PAVEMENT

- NOTES:
- SAW CUT EXISTING ROADWAY DOES NOT HAVE ONE
 - 1. 6\"/>
 - 2. 6\"/>
 - 3. UNTIL STRAND OF GRASS IS ESTABLISHED.



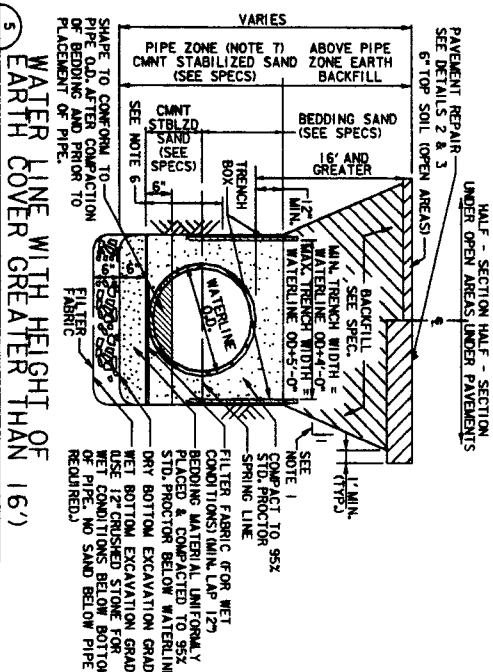
3 TYPICAL REPAIR OF 10" CONCRETE PAVEMENT FOR VOSS ROAD

- NOTES:
1. SAWCUT EXISTING PAVEMENT TO FULL DEPTH.



4 D.I.P. OVER PROPOSED WATER LINE

- NOTES:
1. IF PERMITTED BY COSL, P.V.C. PIPE WITH PRESSURE RATING OF 500 TRIP MAY BE USED.
 2. DETAIL ALSO APPLIES IN CASES WHERE EXIST SAN SWR IS LOCATED BELOW PROPOSED WATER LINE



5 WATER LINE WITH GREATER HEIGHT OF EARTH COVER THAN 16'

- NOTES:
1. SEE TRENCH SAFETY SYSTEM SPECIFICATIONS FOR MAXIMUM ALLOWABLE SLOPES.
 2. FOR WET BOTTOM EXCAVATION LIMITS OF CRUSHED STONE, EXTEND AS SHOWN.
 3. KEY CONCRETE TRENCH DAM MINIMUM OF 6 INCHES INTO TRENCH BOTTOM AND WALLS.
 4. TRENCH DAM MAY BE FORMED OR UNFORMED. ACTUAL SHAPE OF CONCRETE TRENCH DAM CROSS SECTION MAY BE DETERMINED BY CONTRACTOR IN FIELD. MINIMUM THICKNESS AND 6-INCH KEY DEPTH REQUIREMENTS.
 5. TRENCH DAM SHALL BE PLACED AT LEAST 5 FT. AWAY FROM ANY PIPELINE STRUCTURE EACH SIDE. SEE SECTION 0217 FOR OTHER REQUIREMENTS.
 6. THIS PORTION OF PIPE EMBEDMENT ZONE MUST BE RECOMPACTED TO PROPER DENSITIES AFTER MOVING SUPPORT SYSTEM FORWARD.
 7. USE POLYETHYLENE WRAP AS A BOND BREAKER BETWEEN CEMENT STABILIZED SAND AND PIPE.

- GENERAL NOTES:
1. EXCAVATION, SITE GRADING, AND HYDROLOGICAL SEEDING OR SOODING WITHIN R.O.W. AND/OR LIMITS OF CONSTRUCTION IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS.
 2. MEASUREMENT AND PAYMENT (INCLUDING DRIVEWAYS) SHALL BE AS PER SPECIFICATION SECTIONS UNLESS OTHERWISE SHOWN ON BID FORM.
 3. NEW ASPHALTIC PAVEMENTS SHALL BE MIN. 2" THICK TOP, W/BASE AND SUBGRADE PER DETAILS AND SPECIFICATIONS.
 4. NEW CONCRETE PAVEMENTS TO BE SAME THICKNESS AS EXISTING, UNLESS OTHERWISE DIRECTED BY THE COSL.
 5. STREETS OR DRIVEWAYS SHALL BE REPAIRED OR REPLACED USING HIGH EARLY STRENGTH CONCRETE AS INDICATED ON DRAWINGS, ACCORDING TO PAVEMENT REPLACEMENT SCHEDULE WHERE PROVIDED, OR AS DIRECTED BY COSL.
 6. APPLICABLE TO EXISTING CONCRETE AREAS THAT REQUIRE REMOVAL, AND REPLACEMENT CONCRETE DUE TO OPEN TRENCH (EXCLUDE THE MEDIAN ISLAND).
 7. ANY REMOVAL, AND REPLACEMENT OF PAVEMENT NOT IDENTIFIED ON THE DRAWINGS SHALL BE COORDINATED WITH THE ENGINEER AND THE COSL.
 8. PAVEMENT REPLACEMENT SHALL BE CONDUCTED IN ACCORDANCE WITH APPLICABLE COSL CONSTRUCTION SPECIFICATIONS.

<p>CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT</p>	<p>Lockwood, Andrews & Newman, Inc. A L&A & DANCO COMPANY TABLE FRAME IDENTIFICATION # 2944</p>	<p>DATE: 10-10-11</p>
<p>CONSTRUCTION PLANS FOR: 36" SURFACE WATER LINE TO FIRST COLONY WATER PLANT BACKFILL AND PAVEMENT REPAIR DETAILS</p>	<p>DATE: 10-10-11</p>	<p>DATE: 10-10-11</p>
<p>CONTRACT NO.: 1201-10965-000 DRAWN BY: LIZ SCALE: AS SHOWN</p>	<p>DATE: 10-10-11</p>	<p>DATE: 10-10-11</p>




GENERAL NOTES FOR TRAFFIC CONTROL

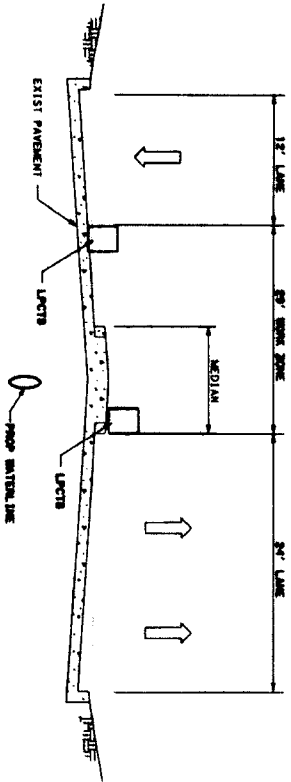
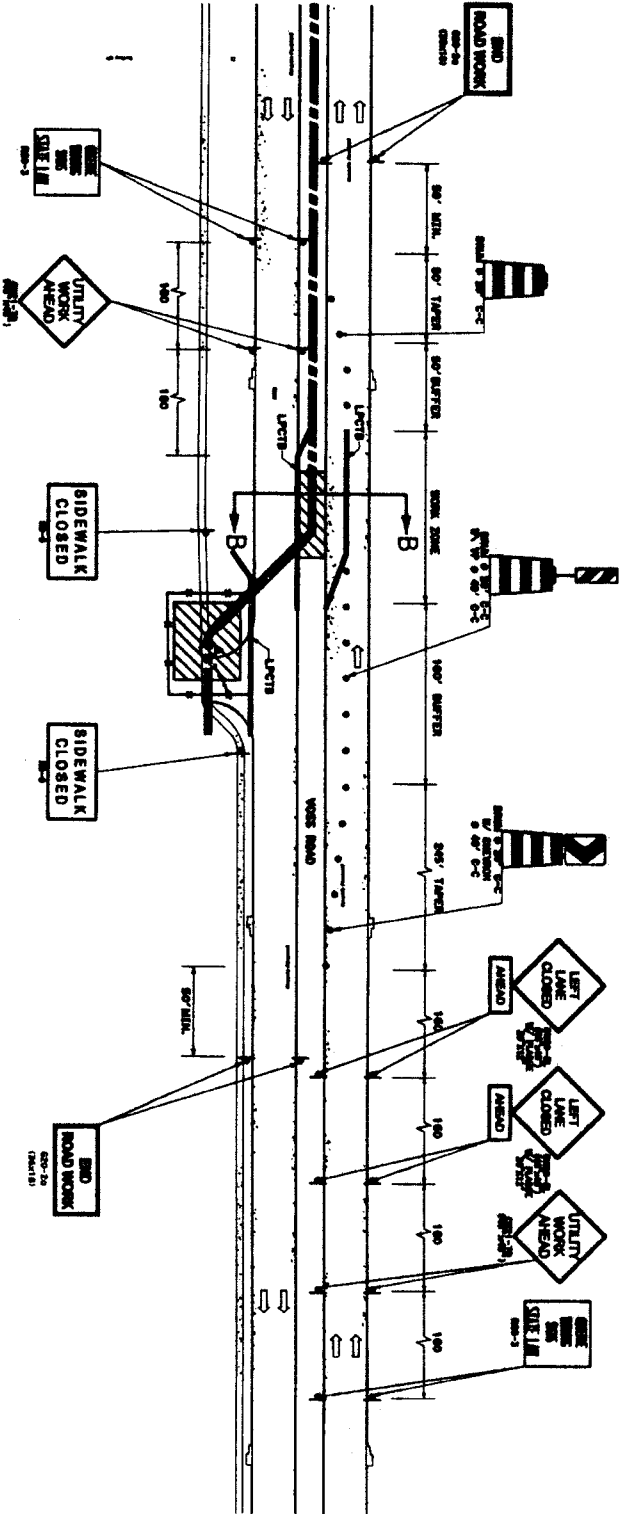
1. THE CONSTRUCTION TRAFFIC CONTROL SIGNS, DEVICES AND BARRICADES ON THESE DRAWINGS CONSTITUTE MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO COVER SPECIAL CIRCUMSTANCES OR OTHER CONDITIONS THAT MAY ARISE DUE TO UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR SHALL PLACE AND MAINTAIN SUFFICIENT ADDITIONAL SIGNS, BARRICADES, AND WARNING DEVICES TO WARN THE PUBLIC AND PROVIDE FOR THE SAFE MOVEMENT OF TRAFFIC AND THE CONSTRUCTION ZONE SAFETY.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, MOST RECENT EDITION WITH REVISIONS, DURING CONSTRUCTION.
3. BARRICADES, SIGNS, CHANNELIZING DEVICES, AND TRAFFIC HANDLING DEVICES AS SHOWN SHALL BE LOCATED TO FIT FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER.
4. NO LANES SHALL BE BLOKED BETWEEN THE HOURS OF 6:00 AM TO 8:00 AM AND 4:00 PM TO 7:00 PM, MONDAY THRU FRIDAY, UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL PROVIDE ACCESS TO ALL PROPERTY OWNERS ALONG THIS PROJECT AT ALL TIMES DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED SPECIFICALLY BY ENGINEER.
6. ALL EXISTING STOP SIGNS, STREET NAME SIGNS, AND WARNING SIGNS SHALL BE MAINTAINED IN PLACE DURING THE ENTIRE PERIOD OF CONSTRUCTION BY THE CONTRACTOR, SIGN DAMAGED BY CONTRACTOR SHALL BE REPLACED AT NO ADDITIONAL COST TO OWNER.
7. NO WORK WILL BE PERFORMED IN THE TRAVELED WAY INCLUDING LOADING AND UNLOADING OF TRUCKS.
8. THE ENGINEER MAY DIRECT THE CONTRACTOR TO PURCHASE ADDITIONAL SIGNS, BARRICADES, AND CHANNELIZING DEVICES AS REQUIRED TO MAINTAIN TRAFFIC AND CONSTRUCTION ZONE SAFETY DURING CONSTRUCTION. ANY SUCH ADDITIONAL SIGNS, BARRICADES, ETC. SHALL BE CONSIDERED A PART OF THE BID LUMP SUM PAY ITEM.
9. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE FLAGGERS TO DIRECT TRAFFIC. FLAGGERS SHALL BE OFF-DUTY UNIFORMED POLICE OFFICERS AND SHALL BE PAID FOR BY THE CONTRACTOR. THIS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY OR TAKING OTHER STEPS AND PROVIDING OTHER PERSONNEL, WHICH THE CONTRACTOR MAY DEEM NECESSARY FOR PROTECTION OF WORK AND THE PUBLIC.
10. CONTRACTOR SHALL ENSURE THAT ALL BARRICADES, SIGNS, CHANNELIZING DEVICES, WARNING LIGHTS, AND TRAFFIC HANDLING DEVICES ARE MAINTAINED IN A CLEAN FUNCTIONAL CONDITION AT ALL TIMES.
11. ALL SIGNS, WARNING DEVICES, AND BARRICADES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ACTS OF VANDALISM OR ACCIDENTS.
12. ALL CONSTRUCTION SIGNS MOUNTED ON BARRICADES SHALL BE EQUIPPED WITH TYPE "X" WARNING LIGHTS TWO PER STRUCTURE.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE TEMPORARY AND EXISTING PAVED MARKINGS IN A GOOD VISIBLE CONDITION THROUGHOUT THE LENGTH OF THE PROJECT.
14. THE CONTRACTOR SHALL SEQUENCE THE CONSTRUCTION IN SUCH A MANNER THAT NO ADJACENT CROSS STREETS AND MEDIAN OPENINGS ARE CLOSED AT THE SAME TIME.
15. THE CONTRACTOR SHALL INSTALL BARRICADES AND PEDESTRIAN SAFETY FENCES AT EACH SITE WHERE PEDESTRIAN TRAFFIC IS EVIDENT OR AS DIRECTED BY ENGINEER.
16. THE CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS AND STRIPING, WHICH ARE IN CONFLICT WITH THE CONSTRUCTION SIGNS AND STRIPING. EXISTING PAVED MARKINGS SHALL BE REPAIRED IN AREAS WHERE TRAFFIC IS DIRECTED TO CROSS THEM. THE SIGNS SHALL BE PROPERLY STORED IN A SAFE PLACE UNTIL THE CONSTRUCTION HAS BEEN COMPLETED.
17. ALL CONSTRUCTION SIGNS, WARNING DEVICES, AND BARRICADES SHALL REMAIN IN PLACE UNTIL THEIR REMOVAL IS DIRECTED BY THESE PLANS OR BY THE ENGINEER.
18. AT THE CONCLUSION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PAVED MARKINGS TO ORIGINAL OR BETTER CONDITION WITH TRAFFIC PAINT STRIPES, RAISED PAVEMENT MARKER BUTTONS, AND RE-INSTALL THE ORIGINAL SIGNS AT THEIR EXISTING LOCATIONS. ANY PRE-EXISTING SIGNS DAMAGED BY THE CONTRACTOR DURING REMOVAL, STORAGE OR RE-INSTALLATION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
19. CONSTRUCTION IN ANY AREA THAT IS ADVERSELY AFFECTING TRAFFIC FLOW AND SAFETY MUST BE PARCELED DILIGENTLY BY THE CONTRACTOR. IF, IN THE OPINION OF THE ENGINEER, THE CONTRACTOR IS NOT DILIGENTLY PARCELED THE CONSTRUCTION IN THOSE AREAS, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO CHANGE HIS/HER WORK SCHEDULE TO EXPEDITE COMPLETION IN THOSE AREAS OF CONCERN.
20. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF TRAFFIC CONTROL PLAN DURING THE CONSTRUCTION THAN THAT IS OUTLINED IN CONTRACT DRAWINGS, HE/SHE SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT ALTERNATE PLANS TO THE CITY OF SUGAR LAND FOR CONSIDERATION TEN (10) WORKING DAYS PRIOR TO IMPLEMENTATION.
 - * THESE PLANS SHALL BE DRAWN TO SCALE ON REPRODUCIBLE MYLARS AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. PLANS WILL BECOME A PART OF THE CONTRACT DRAWINGS.
21. CONTRACTOR SHALL ENSURE THAT ALL NECESSARY STEPS ARE TAKEN IN SECURING APPROVAL FOR ROAD AND SIDEWALK CLOSURES WITHIN SUGAR LAND CITY LIMITS.
22. REFER TO SPECIFICATION SECTION 0185 FOR ADDITIONAL COMMENTS.

SPACING FOR CHANNELIZING DEVICES

- A. PLASTIC DRUMS ON MENSURE TAPER @ 30' C-C WITH OVERNIGHT SIGN @ 60' C-C AND TYPE "C" WARNING LIGHT FOR OVERNIGHT CLOSURE
- B. PLASTIC DRUMS ON DOWNSTREAM TAPER @ 30' C-C
- C. PLASTIC DRUMS ON RADI @ 5' C-C
- D. PLASTIC DRUMS ON TANGENT @ 30' C-C WITH VERTICAL PANEL @ 70' C-C AND TYPE "C" WARNING LIGHT @ 70' C-C FOR OVERNIGHT CLOSURE
- E. PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE @ 20' C-C WITH VERTICAL PANEL @ 40' C-C AND TYPE "A" WARNING LIGHT @ 40' C-C FOR OVERNIGHT CLOSURE
- F. CONCRETE TRAFFIC BARRIER (3' x 12" OR LOW PROFILE CONCRETE TRAFFIC BARRIER (3' x 12") WITH REFLECTORS @ 10' C-C IF PAVEMENT DROP IS MORE THAN TWELVE INCHES (12") OR LAKE IS WITHIN 12' OF OPEN EXCAVATION.
- G. TUBULAR MARKERS @ 20' C-C.

NOTED: SPACINGS SHOWN ON TRAFFIC CONTROL PLANS SHALL SUPERSEDE THE ABOVE SPACINGS. SPACINGS MAY BE ADJUSTED TO PROVIDE DRIVEWAYS, INTERSECTIONS AND/OR MEDIAN OPENINGS.

 CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT	 Lockwood, Andrews & Newnam, Inc. 1101 A. SULLY COURT DALLAS, TEXAS 75244	 State of Texas Professional Engineer No. 12345 Exp. 12/31/2011	CONSTRUCTION PLANS FOR: 36" SURFACE WATER LINE TO FIRST COLONY WATER PLANT TRAFFIC CONTROL PLAN GENERAL NOTES	SHEET 99 OF 122
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- LEGEND**
- WORK ZONE
 - SIGNS
 - TRAFFIC SIGNS
 - DIRECTION OF TRAFFIC
 - PLASTIC ARROW PANELS
 - PORTASTAIN SAFETY FENCE
 - PORTASTAIN SAFETY FENCE
 - PORTASTAIN SAFETY FENCE

- NOTE:**
1. PROVIDE PORTASTAIN SAFETY FENCE TO SECURE WORK ZONE IN ALL AREAS THAT PORTASTAIN TRAFFIC IS EXERCISED.
 2. CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVE AT ALL TIMES.
 3. PLACE LOW PROFILE CONCRETE BARRIER AT ALL AREAS WHERE TRAVEL LANES ARE OTHER THAN 12 FEET OR OTHER EXCAVATIONS.
 4. CONTRACTOR MAY NOT CLOSE TWO CONSECUTIVE TRAVEL LANES ON LEFT TURN LANES AT ANY OTHER TIME.
 5. WORK WHICH REQUIRES LANE CLOSURE ON VORSS ROAD MAY BE PERFORMED ONLY ON DAYS THAT SCHOOL IS NOT IN SESSION, ON SCHOOL DAYS ALL TRAVEL LANES, TURN LANES AND MEDIAN OPENINGS MUST REMAIN OPEN AT ALL TIMES.

NO.	DATE	REVISION

IGN Lockwood, Andrews & Newman, Inc.
3100 S. GULF FREWAY
HOUSTON, TEXAS 77058

Chubb CONSULTING ENGINEERS
10000 WESTHELL BLVD.
HOUSTON, TEXAS 77036

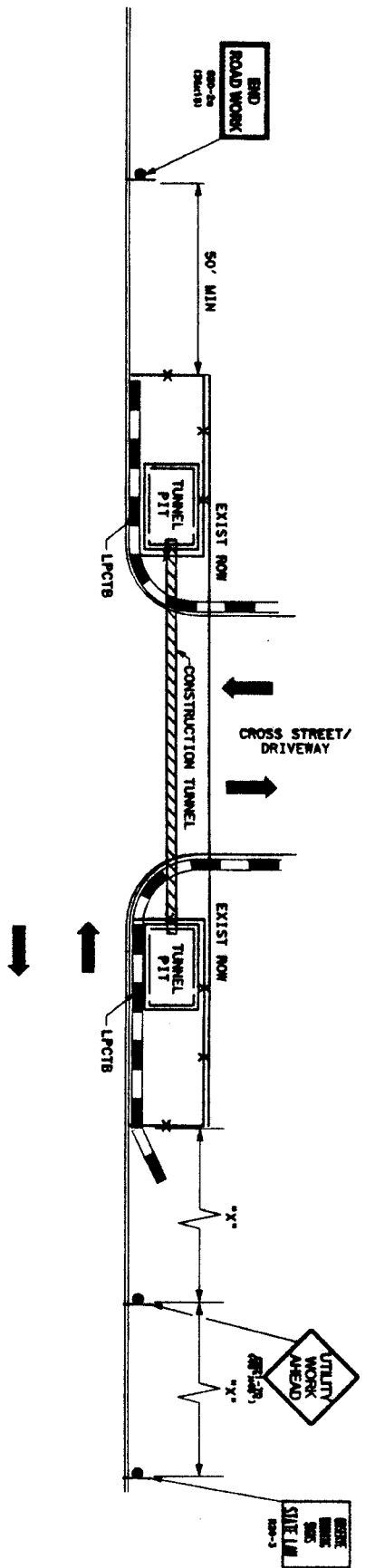


CONSTRUCTION PLANS FOR:
30" SLAG/PAVE WATER LINE TO
FIRST COLONY WATER PLANT
VORSS ROAD
TYPICAL TRAFFIC CONTROL SECTION B-B

DATE: 10-11-11
DRAWN BY: JTB
CHECKED BY: JTB
SCALE: AS SHOWN

10P 122

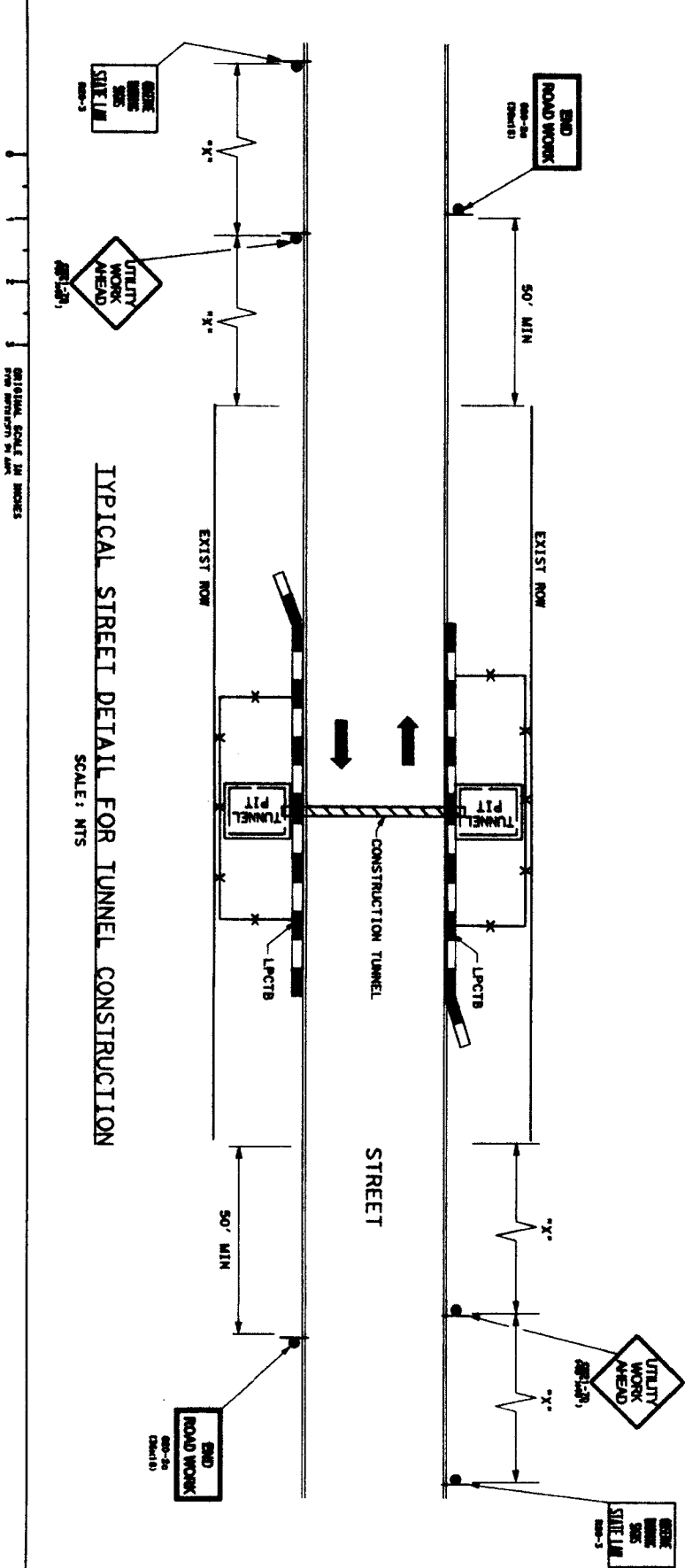
TYPICAL SCALE IN INCHES



TYPICAL DRIVEWAY DETAIL FOR TUNNEL CONSTRUCTION
SCALE: MTS

SPEED LIMIT	"X"
30	120
35	160
40	240
45	320

- LEGEND
- ① WK 2H PAV MARK REMOV DEL (Y) 4" (SLD)
 - ② WK 2H PAV MARK REMOV (R) 4" (SLD)
 - ③ WORK ZONE
 - ④ TYPE III BARRICADE W/ TYPE A FLASHING BARRING LIGHT
 - DRAINS
 - TEMP GROUND MOUNTED SIGNS
 - DIRECTION OF TRAFFIC
 - X — LOW PROFILE CONC TRAFFIC BARRIER
 - X — PEDESTRIAN SAFETY FENCE



TYPICAL STREET DETAIL FOR TUNNEL CONSTRUCTION
SCALE: MTS

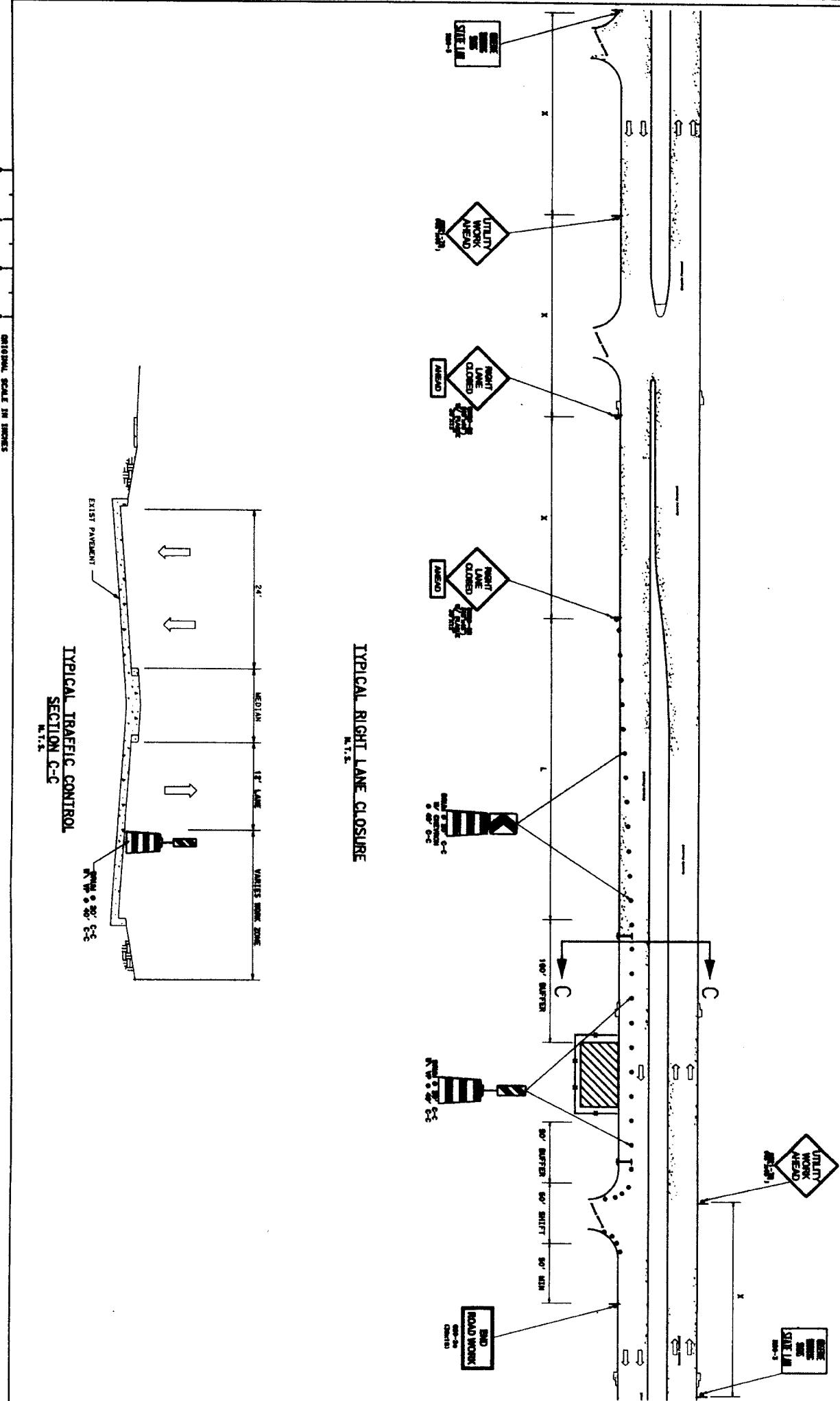
VERTICAL SCALE 3/8" = 1'

<p>Lockwood, Andrews & Newnam, Inc. A LEAS & KELLY COMPANY TRAFFIC CONTROL PLAN TYPICAL DETAILS FOR TUNNEL CONSTRUCTION TOP-3</p>	<p>CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT CONSTRUCTION PLANS FOR: 30" SURFACE WATER LINE TO FIRST COLONY WATER PLANT</p>	<p>DATE: 10-11-11 DRAWN BY: [Signature] CHECKED BY: [Signature] SCALE: 1" = 30'</p>	<p>02.122</p>
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SPEED LIMIT	"X"	"L"
30	120	180
35	160	245
40	240	320
45	320	540

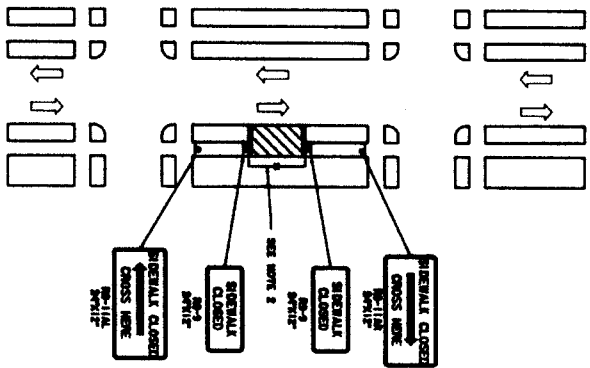
- NOTE:
1. PROVIDE PROTECTIVE SAFETY FENCE TO SECURE WORK ZONE IN ALL AREAS THAT PROHIBIT TRAFFIC IS EVIDENT.
 2. CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES AND RESIDENTS AT ALL TIMES.
 3. PLACE LOW PROFILE CONCRETE BARRIERS AT ALL AREAS WHERE TRAVEL LANES ARE WITHIN 15 FEET OF OPEN EXCAVATIONS.

- LEGEND
- WORK ZONE
 - PROTECTIVE SAFETY FENCE, TYPE A
 - ORNL
 - TEMP GROUND MOUNTED SIGNS
 - DIRECTION OF TRAFFIC
 - FLASHING ARROW PANEL
 - PROTECTIVE SAFETY FENCE

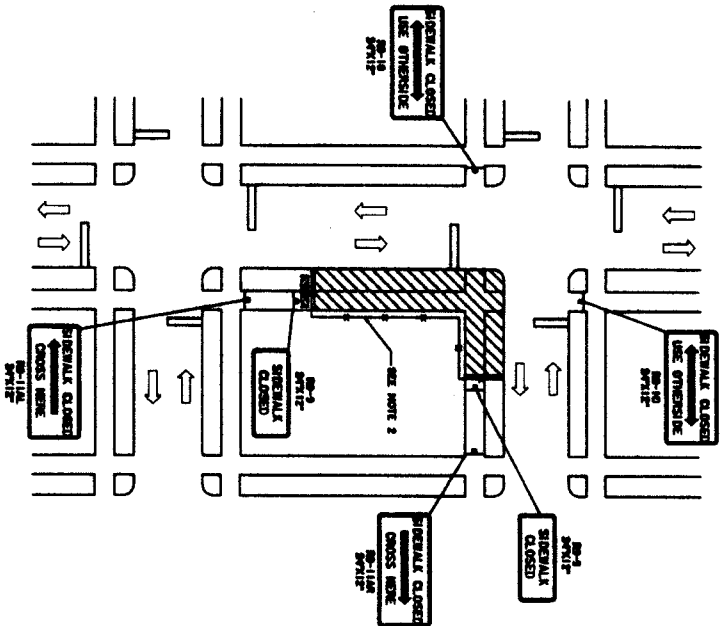


<p>Lockwood, Andrews & Newberry, Inc. A LEO A SEIT COMPANY TRAFFIC SIGNALS DIVISION OF LEO</p>	<p>City of Sugar Land, Texas Engineering Department</p>	<p>CONSTRUCTION PLANS FOR: 3RD SURFACE WATER LINE TO FIRST COLONY WATER PLANT TRAFFIC CONTROL PLAN TYPICAL ONE LANE CLOSURE DETAIL</p>	<p>DATE: 10/3/12</p>
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SIDEWALK DETOUR
N.T.S.



CROSSWALK CLOSURES AND PEDESTRIAN DETOURS
N.T.S.



LEGEND

- CHANNELIZING DEVICE WITH CURBS OR VERTICAL PANELS
- ➡ DIRECTIONAL ARROW
- ▨ WORK ZONE
- ⊥ TYPE III BANNIQUE WITH TYPE "A" FLASHING WARNING LIGHTS.
- ⊥ TRAFFIC CONTROL SIGN
- ⊥ FLASHING ARROW PANEL
- ⊥ LOW PROFILE CONCRETE TRAFFIC BARRIER
- ⊥ PEDESTRIAN SAFETY FENCE

NOTES

1. WORK WHICH REQUIRES THE CLOSURE OF SIDEWALKS LEADING TO OR ADJACENT TO EMPLOYER HIGH SCHOOL MUST BE COMPLETED WHILE SCHOOL IS NOT IN SESSION. ALL STREETS MUST REMAIN OPEN AT ALL TIMES WHEN STUDENTS ARE PRESENT.
2. PROVIDE PEDESTRIAN SAFETY FENCE TO SECURE WORK ZONE IN ALL AREAS THAT PEDESTRIAN TRAFFIC IS EXCLUDED.

NO.	DATE	REVISION

IGN Lockwood, Andrews & Newnam, Inc.
7100 E. SALT CREEK
DALLAS, TEXAS 75247-1000 (972) 412-1000

CITY OF SUGAR LAND
SEWER DIVISION
PROJECT NO. 122
DATE: 04/12/22

CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:
2ND SURFACE WATER LINE TO
FIRST COLONY WATER PLANT

TRAFFIC CONTROL PLAN
TYPICAL PEDESTRIAN
DETAILS
TR-1

ORIGINAL SCALE IN INCHES
COPY REDUCED BY 1/4"

