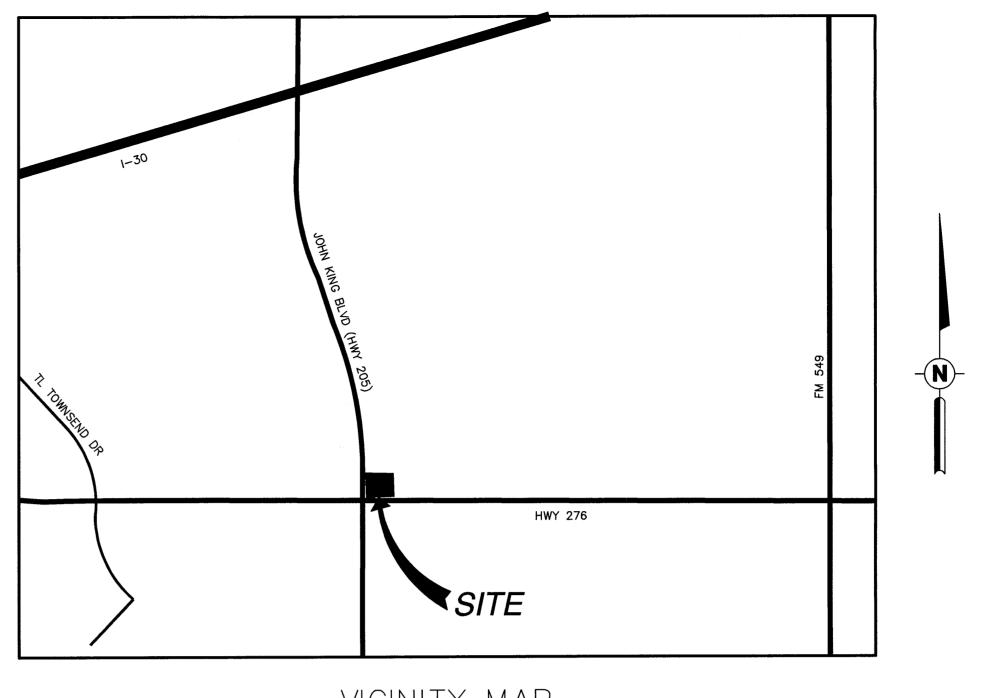
7-ELEVEN

JOHN KING BLVD & HWY 276 ROCKWALL, TEXAS ROCKWALL COUNTY





VICINITY MAP NO SCALE

GENERAL NOTES

- 1. CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE APPROVED PLANS AND THE APPROPRIATE STANDARDS AND SPECIFICATIONS ALONG WITH A COPY OF ANY PERMITS AND AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES
- CONTRACTOR SHALL MEET OR EXCEED ALL SITE WORK SPECIFICATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS FOR ALL MATERIALS AND CONSTRUCTION AND CITY OF ROCKWALL STANDARDS AND NCTCOG 3RD EDITION. CONTRACTOR SHALL USE THE MOST CURRENT TXDOT SPECIFICATIONS FOR ALL WORK DONE IN THE TXDOT RIGHT OF WAY.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY DURING CONSTRUCTION.
- 4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS IS ENCOUNTERED.
- 5. NO REVISION SHALL BE MADE TO THESE PLANS WITH OUT THE APPROVAL OF THE ENGINEER OF RECORD.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- 7. ANY REFERENCE TO PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- 8. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

FLOOD NOTE

THIS SITE IS NOT IN ANY PRESENTLY ESTABLISHED FLOODWAY OR FLOODPLAIN AS SHOWN IN THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 48397C0045L DATED SEPTEMBER 26,2008.

SHEET LIST

C0.0 COVER SHEET

C0.1 DEMOLITION PLAN C1.0 SITE PLAN

C1.1 PAVING PLAN C1.2 TRAFFIC CONTROL PLAN

C1.3 TRAFFIC CONTROL DETAILS

C2.0 GRADING PLAN

C2.1 STORM SEWER PROFILES

C2.3 POST DEVELOPED DRAINAGE MAP

C3.0 EROSION & SEDIMENT CONTROL PLAN C3.1 SWPPP

C4.0 UTILITY PLAN

C4.1 SANITARY SEWER PROFILES

C7.0 DETAIL SHEET C7.1 DETAIL SHEET

C7.2 DETAIL SHEET

SMD(TY G)-08

PM(3)-12 TSR(4)-08

EC(1)-09 EC(2)-93 CC-CG (FW)

TXDOT CONVENTIONAL ROAD SHOULDER WORK TXDOT SIGN MOUNTING **TXDOT PAVEMENT MARKINGS**

TXDOT SIGN REQUIREMENTS TXDOT EROSION & SEDIMENT CONTROL TXDOT EROSION & SEDIMENT CONTROL

TXDOT CURB AND GUTTER

CONTACTS

DEVELOPER **VERDAD REAL ESTATE** 502 N CARROLL AVE, SUITE 120 SOUTHLAKE, TX 76092 817-912-0524 MICHAEL MONTGOMERY

ARCHITECT, ENGINEER, MEP, & FUELING HARRISON FRENCH & ASSOCIATES 809 SW A ST, SUITE 201 BENTONVILLE, AR 72712 479-273-7780

CITY OF ROCKWALL PLANNING & ZONING DEPT 385 S. GOLIAD ST ROCKWALL, TX 75087 972-771-7745

CITY OF ROCKWALL PLANNING & ZONING DEPT 385 S. GOLIAD ST ROCKWALL, TX 75087 972-771-7745 JODEE SANFORD

CITY OF ROCKWALL FIRE DEPT 385 S. GOLIAD ST ROCKWALL, TX 75087 972-771-7770 ARIANA HARGROVE

HIGHWAY 276 TXDOT 972-962-3848 CHRIS JOHNSON

ROBERT LACROIX

JOHN KING BLVD CITY OF ROCKWALL ENGINEERING DEPT 385 S GOLIAD ST ROCKWALL, TX 75087 972-771-7746 CHUCK TODD

SANITARY SEWER CITY OF ROCKWALL ENGINEERING DEPT 385 S GOLIAD ST ROCKWALL, TX 75087 972-771-7746 CHUCK TODD

CITY OF ROCKWALL ENGINEERING DEPT 385 S GOLIAD ST ROCKWALL, TX 75087 972-771-7746 CHUCK TODD

STORM WATER CITY OF ROCKWALL ENGINEERING DEPT 385 S GOLIAD ST ROCKWALL, TX 75087 972-771-7746 CHUCK TODD

ELECTRIC ONCOR 214-486-4245 RICHARD BREWSTER

TELEPHONE AT&T 903-457-2210 ROBERT HALL

TXDOT STANDARDS, SPECIFICATIONS, AND GUIDELINES MUST BE UTILIZED WITHIN TXDOT RIGHT OF WAY.

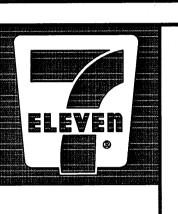
"ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN."

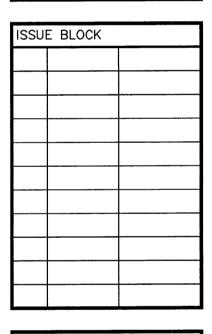
TO THE BEST OF OUR KNOWLEDGE SMITH ENGINEERING, INC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

NGINEERS INTERIORS

HARRISON FRENCH & ASSOCIATES, LTD

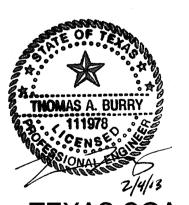
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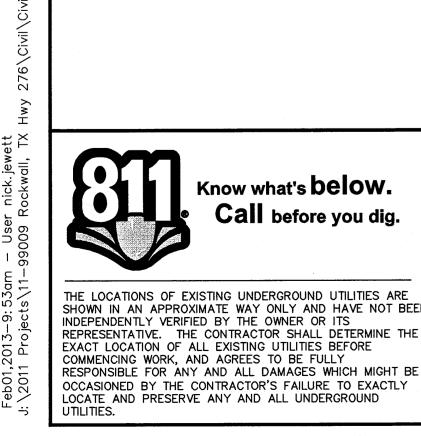


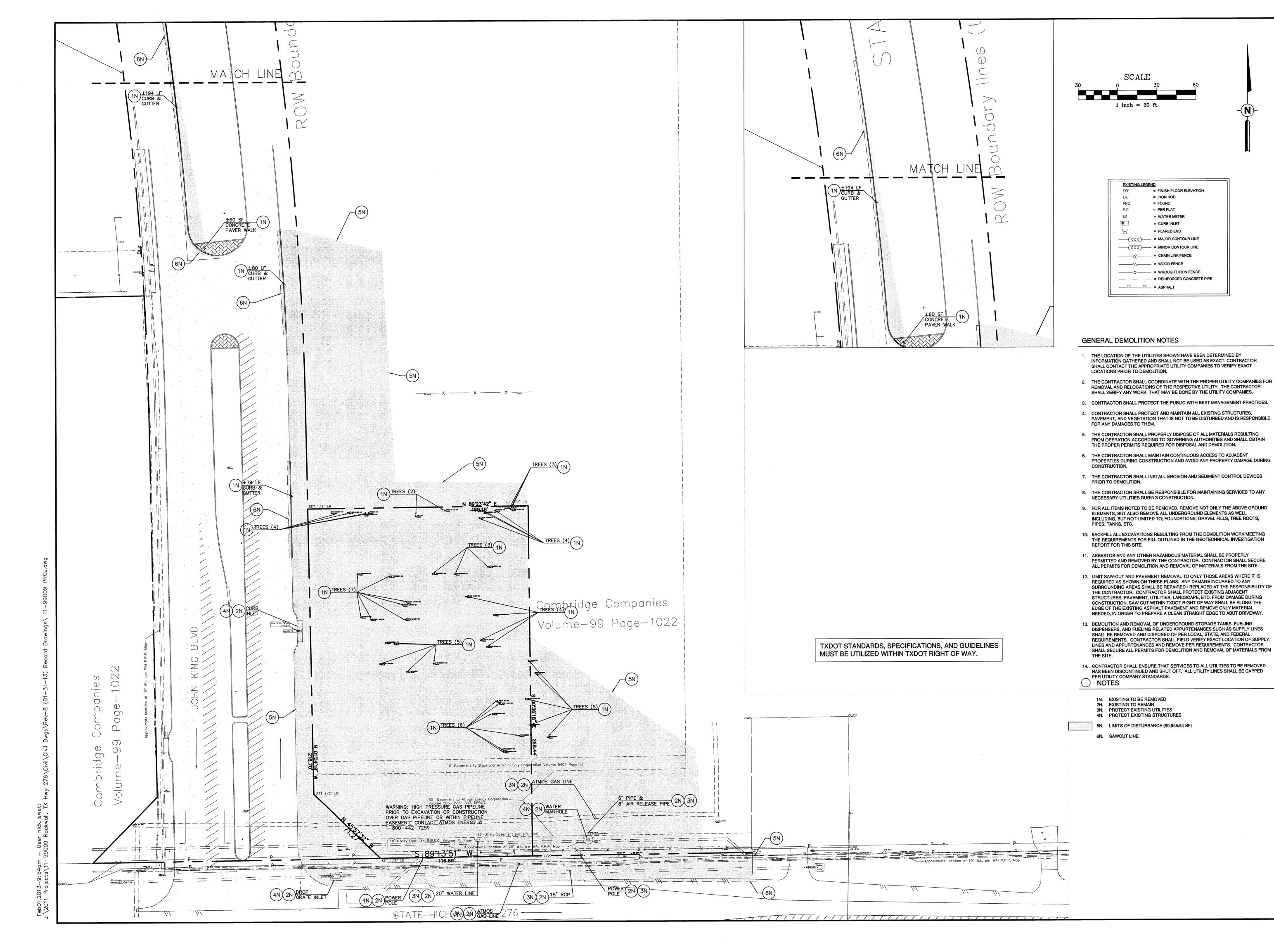
TEXAS COA #F-8576

> **COVER** SHEET

AS-BUILT

SHEET: C0.0



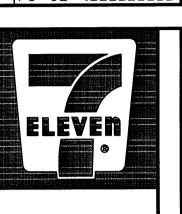




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PROPERLY LICENSED ARCHITECTS AND
ENGINEERS. REPRODUCTION OF THIS
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BE CONTRARY TO THE LAW.



JOHN KING BLVD & HWY 276
ROCKWALL, TEXAS
PROJ NUMBER: 12-11-99009

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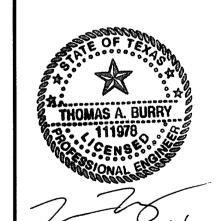
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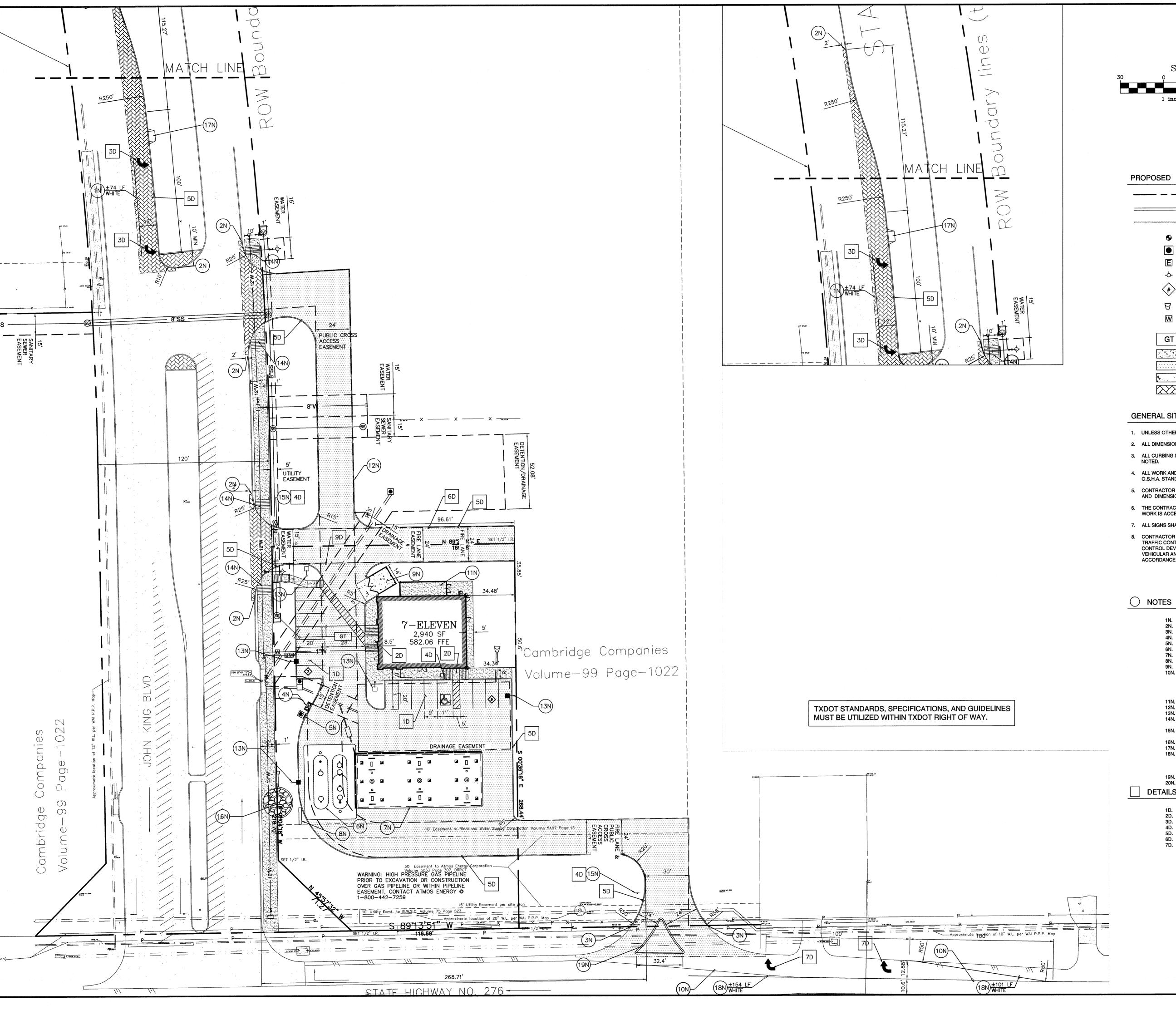


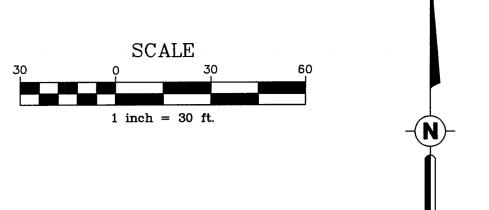
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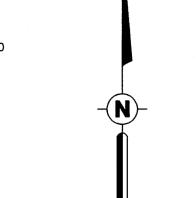
DEMOLITION PLAN

AS-BUILT

SHEET:







PROPOSED

	PROPERTY LINE
	CURBING
	FIRE LANE
•	BUILDING CONTROL POINT
	CURB INLET
E	ELECTRIC METER
&	FIRE HYDRANT
# >	PARKING COUNT
A	FLARED END
W	WATER METER
GT	GREASE TRAP
	SIDEWALKS
	REGULAR DUTY CONCRETE PAVING
4 4	HEAVY DUTY CONCRETE PAVING
	ENTRY DRIVE CONCRETE PAVING

GENERAL SITE NOTES

- 1. UNLESS OTHERWISE SHOWN, ALL CURB RADII SHALL BE 2' OR 10'.
- 2. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- 3. ALL CURBING SHALL BE TYPE A PER DETAIL TYPE A CURB, UNLESS OTHERWISE
- 4. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL LOCAL REGULATIONS AND O.S.H.A. STANDARDS.
- 5. CONTRACTOR SHALL REFER TO ARCHITECT PLANS FOR EXACT BUILDING LOCATION AND DIMENSIONS AND UTILITY ENTRANCE LOCATIONS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE UNTIL WORK IS ACCEPTED BY THE OWNER.
- 7. ALL SIGNS SHALL BE PER TMUTCD.
- 8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE TRAFFIC CONTROL THROUGHOUT THE PROJECT, INCLUDING PROPER TRAFFIC CONTROL DEVICES AND/OR PERSONNEL AS REQUIRED. THIS INCLUDES BOTH VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH T.M.U.T.C.D.

- 1N. BUTTON TURN LANE LINE PER CITY DETAIL (SEE PLAN FOR COLOR)
 2N. TAPER CURB TO MATCH EXISTING
- 3N. TRANSITION CURB FROM 6 INCHES TO 0 INCHES OVER 2 FEET.
- 4N. AIR AND VACUUM MACHINE (PER FUELING PLANS) 5N. FUELING VENT PIPES (PER FUELING PLANS)
- 6N. UNDERGROUND STORAGE TANKS (PER FUELING PLANS) 7N. FUELING CANOPY (PER FUELING PLANS)
- 8N. MONUMENT SIGN (PER SIGN PLANS) 9N. DUMPSTER PAD
- 10N. REMOVE EXISTING ALIGNMENT STRIPING AS NECESSARY FOR PROPOSED STRIPING. REMOVAL SHALL BE PERFORMED IN ACCORDANCE WITH TXDOT SPECIFICATION ITEM 677. CONTRACTOR SHALL REMOVE STRIPING
- BY ONE OF TXDOT APPROVED METHODS: FLAILING, WATERBLASTING, OR SANDBLASTING. GRINDING OF PAVEMENT WILL NOT BE ALLOWED.
- 11N. MECHANICAL ENCLOSURE (PER ARCH PLANS) 12N. CURB CUT, SEE GRADING PLAN
- 13N. SITE LIGHTING, PER PHOTOMETRIC PLAN
- 14N. ADA RAMP WITH TRUNCATED DOME PER CITY, SHALL NOT EXCEED 8.33% RUN SLOPE OR 2% CROSS SLOPE.
- 15N. RIGHT TURN ONLY SIGN, TMUTCD R3-5 PER TXDOT STANDARD TRS (4)-08
 AND SMD(TY G)-08
 16N. FLAG STONE CIRCLE WITH LIMESTONE SEATING WALL.
- 17N. LANDSCAPE MAINTENANCE RAMP PER CITY OF ROCKWALL DETAIL 18N. 4" LEFT TURN LANE ALIGNMENT STRIPE PER TXDOT STANDARDS. REMOVE
- ALL CONTAMINATION AND LOOSE MATERIAL. AVOID DAMAGING THE PAVEMENT SURFACE. PLACE MARKINGS BEFORE OPENING TO TRAFFIC AND APPLY ONE PAVEMENT THAT IS COMPLETELY DRY.
- 19N. TYPE I CURB AS PER TXDOT STANDARD 20N. PAINT TYPE 1 CURB YELLOW AND PLACE DIAGONAL YELLOW STRIPING ON
- DETAILS TOP OF MEDIAN

- 2D. LINEAR ADA RAMP
- 3D. FLOW ARROWS
- 4D. SIGN BASE SUPPORTS 5D. CURB AND GUTTER
- 6D. FIRE LANE STRIPING 7D. TURN LANE MARKING AS PER TXDOT STANDARD PM(3)-12. REMOVE ALL CONTAMINATION AND LOOSE MATERIAL. AVOID DAMAGING THE PAVEMENT SURFACE. PLACE MARKINGS BEFORE OPENING TO TRAFFIC

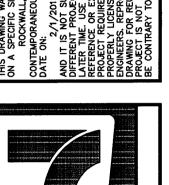
AND APPLY ONE PAVEMENT THAT IS COMPLETELY DRY.



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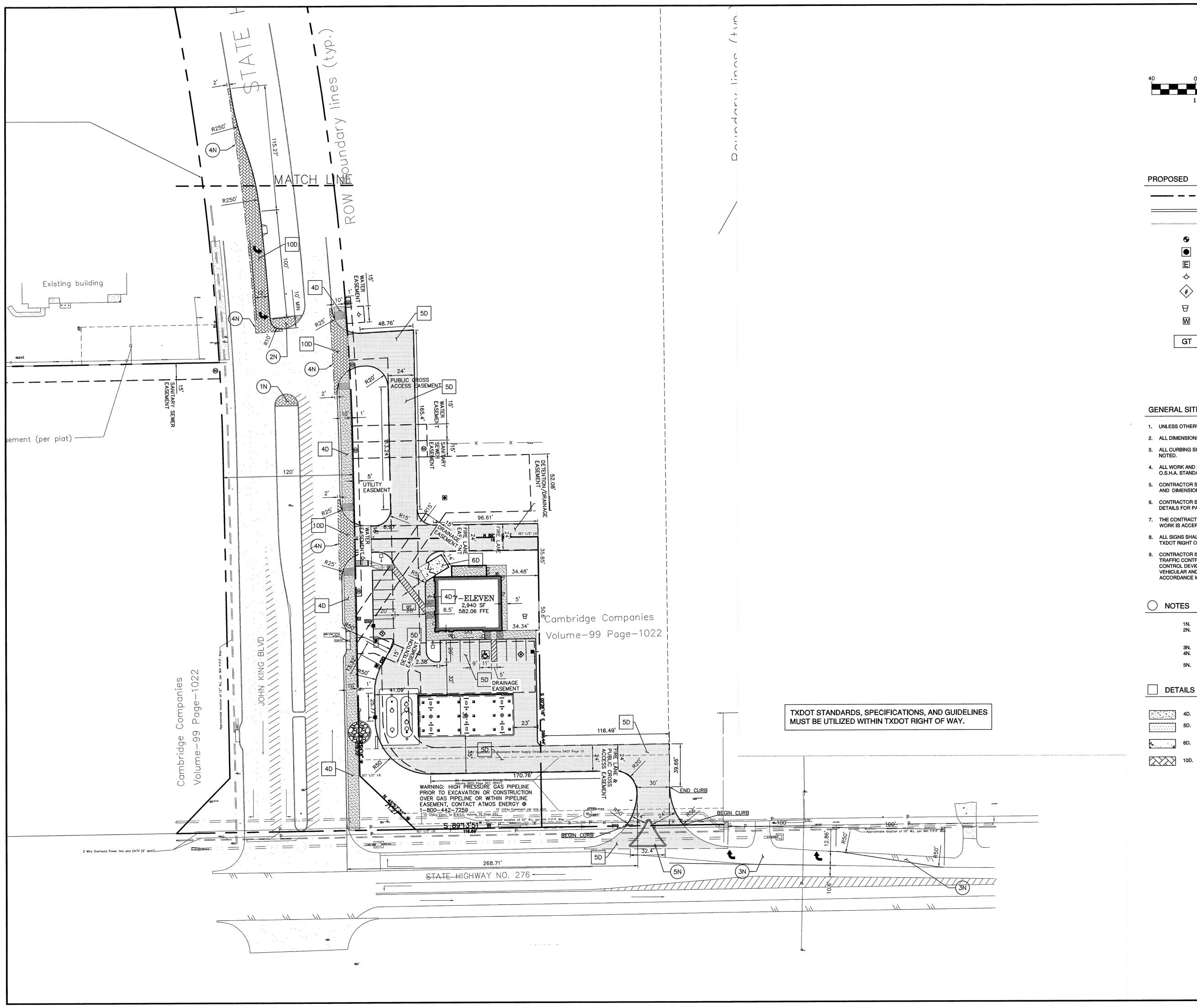


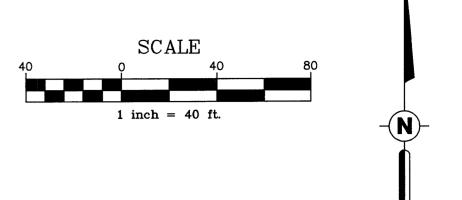
TEXAS COA #F-8576

> SITE **PLAN**

AS-BUILT

C1.0





PROPOSED

	PROPERTY LINE
	CURBING
	FIRE LANE
•	BUILDING CONTROL POINT
	CURB INLET
E	ELECTRIC METER
-	FIRE HYDRANT
#>	PARKING COUNT
A	FLARED END
M	WATER METER
GT	GREASE TRAP

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- 4. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL LOCAL REGULATIONS AND
- 5. CONTRACTOR SHALL REFER TO ARCHITECT PLANS FOR EXACT BUILDING LOCATION AND DIMENSIONS AND UTILITY ENTRANCE LOCATIONS.
- 6. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND GEOTECHNICAL REPORT DETAILS FOR PAVING DESIGN AND PROPER MATERIALS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE UNTIL
- WORK IS ACCEPTED BY THE OWNER. 8. ALL SIGNS SHALL BE PER TMUTCD, UNLESS WITHIN TXDOT RIGHT OF WAY. IN
- TXDOT RIGHT OF WAY USE APPLICABLE STANDARDS.
- 9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE TRAFFIC CONTROL THROUGHOUT THE PROJECT, INCLUDING PROPER TRAFFIC CONTROL DEVICES AND/OR PERSONNEL AS REQUIRED. THIS INCLUDES BOTH VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH T.M.U.T.C.D.

○ NOTES

- EXISTING STONE PAVERS TO REMAIN
 MODIFY EXISTING STONE PAVERS AS NEEDED FOR TURN LANE. SEE
 STONE PAVER DETAIL PER CITY OF ROCKWALL. PAVERS MUST MATCH
- EXISTING COLOR AND STYLE. 3N. EXISTING PAVING TO REMAIN. SEE PROPOSED STRIPING PER SITE PLAN. 4N. LONGITUDINAL BUTT JOINT NCTCOG 3RD EDITION AND ROCKWALL
- STANDARDS 5N. TYPE I CURB AS PER TXDOT STANDARD

4D. 4" THICK SIDEWALK, 3,000 PSI WITH A 5.5 SACK MINIMUM

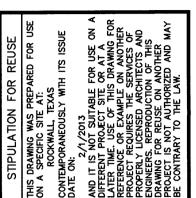
5D. 6" SURFACE COARSE AT 3,600 PSI ON 6" LIME STABILIZED SUBGRADE. FOR FIRE LANE AREAS USE A 6.5 SACK MIX MINIMUM. 6D. 7" SURFACE COARSE REINFORCED AT 3,600 PSI ON 6" LIME STABILIZED SUBGRADE.

10D. 10" THICK 5,000 PSI CONCRETE ON 8" LIME STABILIZED SUBGRADE USE A 7.5 SACK MIX MINIMUM



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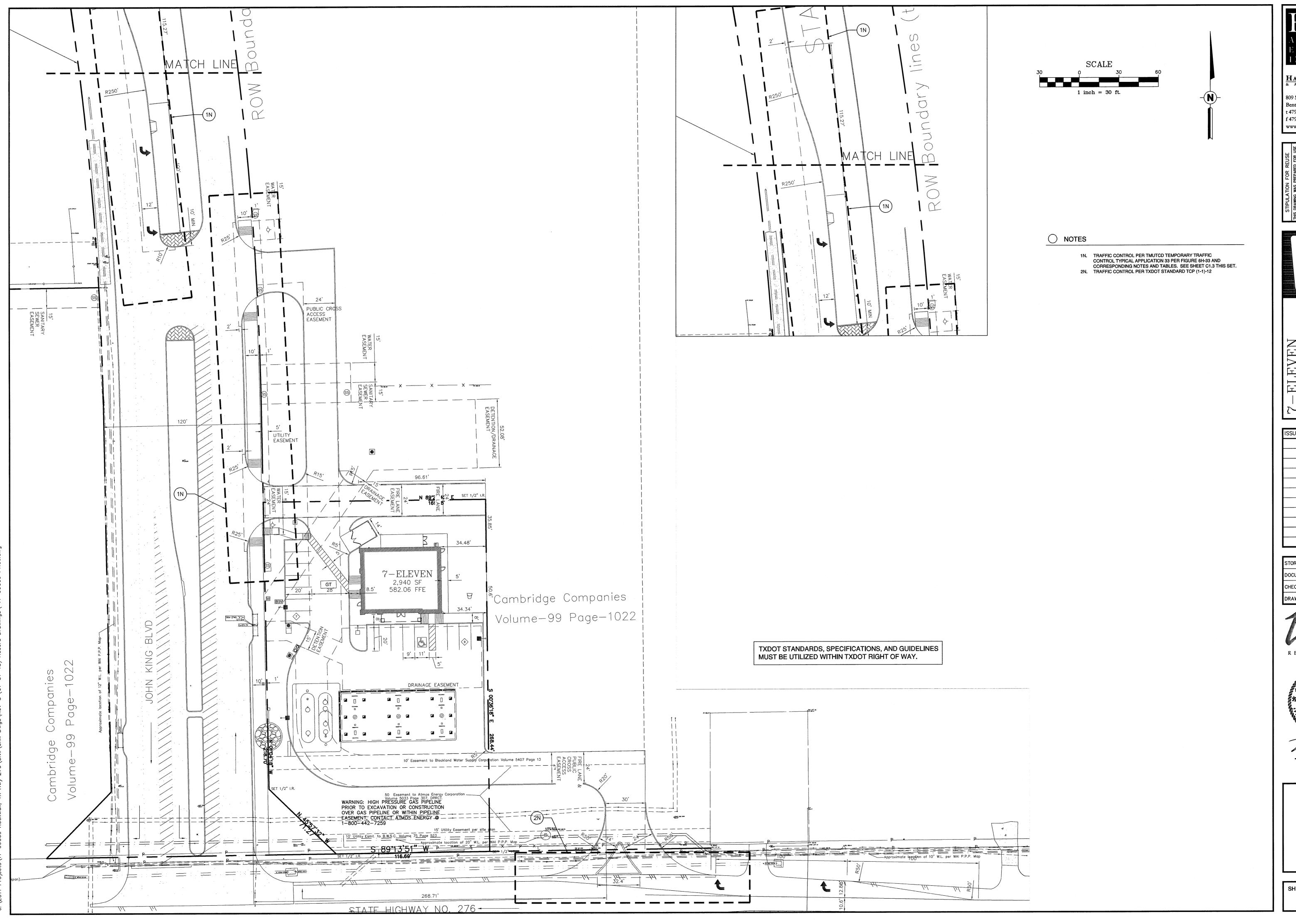


TEXAS COA #F-8576

> PAVING PLAN

AS-BUILT

SHEET:





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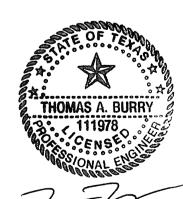
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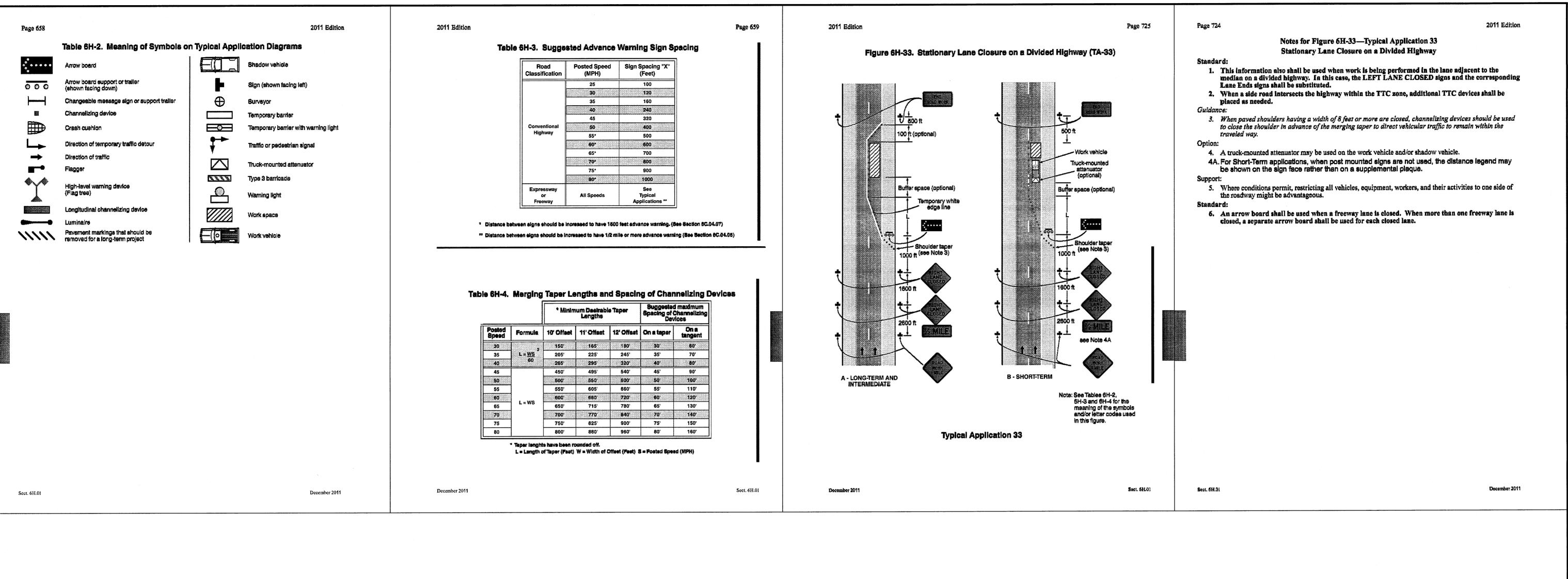


TEXAS COA #F-8576

TRAFFIC CONTROL PLAN

AS-BUILT

C1.2



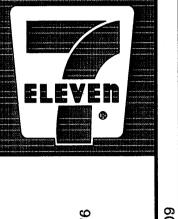
TXDOT STANDARDS, SPECIFICATIONS, AND GUIDELINES MUST BE UTILIZED WITHIN TXDOT RIGHT OF WAY.

ARCHITECTS ENGINEERS INTERIORS

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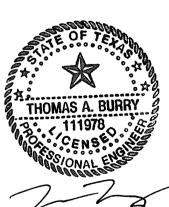
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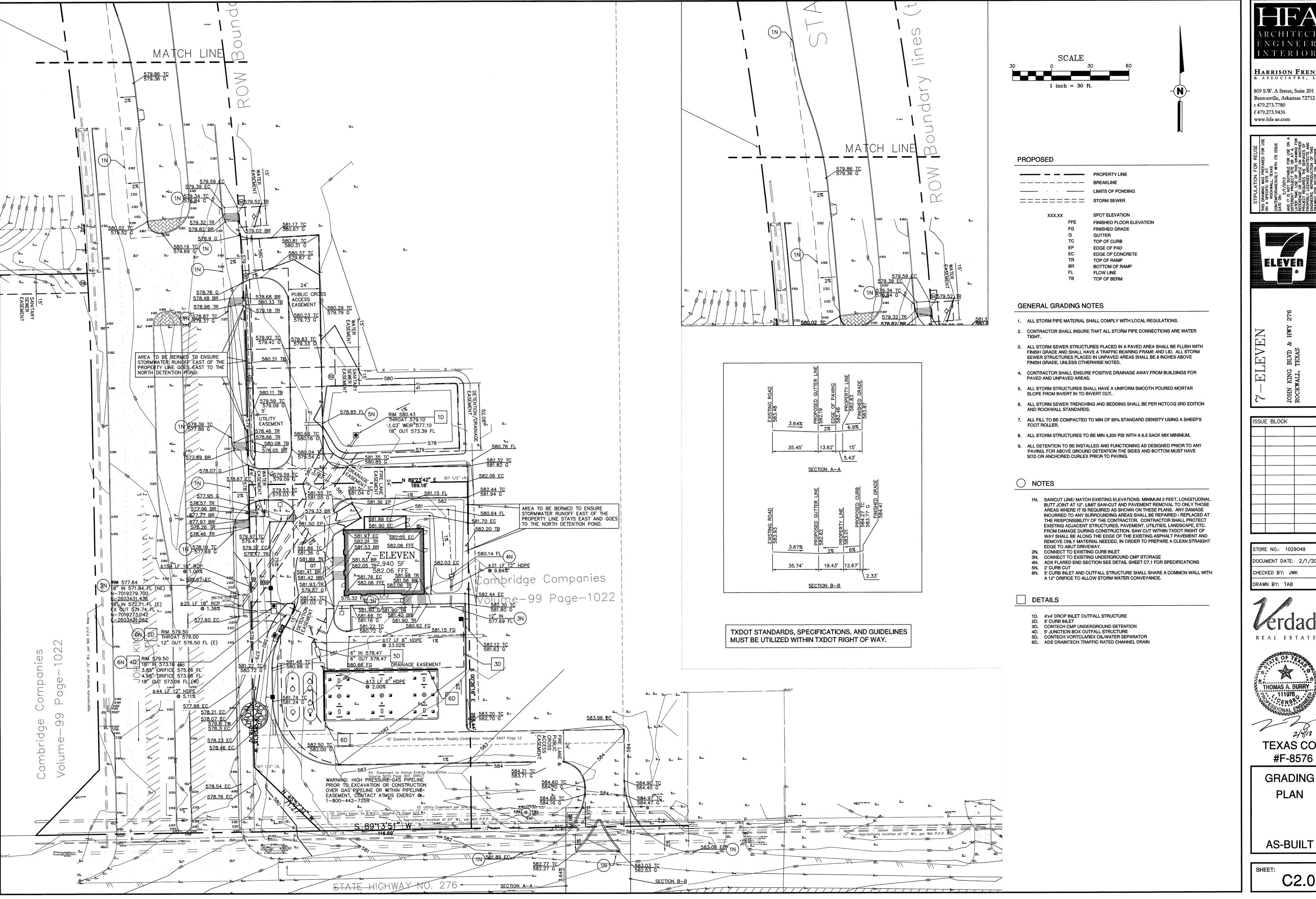
7/4/3 TEXAS COA #F-8576

TRAFFIC CONTROL DETAILS

AS-BUILT

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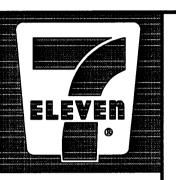
C1.3



ENGINEER INTERIOR

HARRISON FRENCH & ASSOCIATES, LT

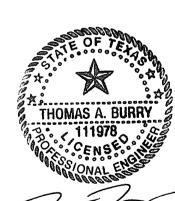
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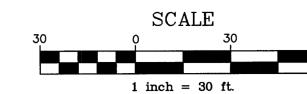
TEXAS COA #F-8576

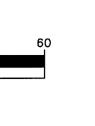
GRADING **PLAN**

AS-BUILT

SHEET: C2.0

TXDOT STANDARDS, SPECIFICATIONS, AND GUIDELINES MUST BE UTILIZED WITHIN TXDOT RIGHT OF WAY.

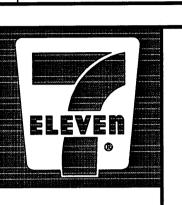






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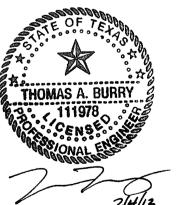
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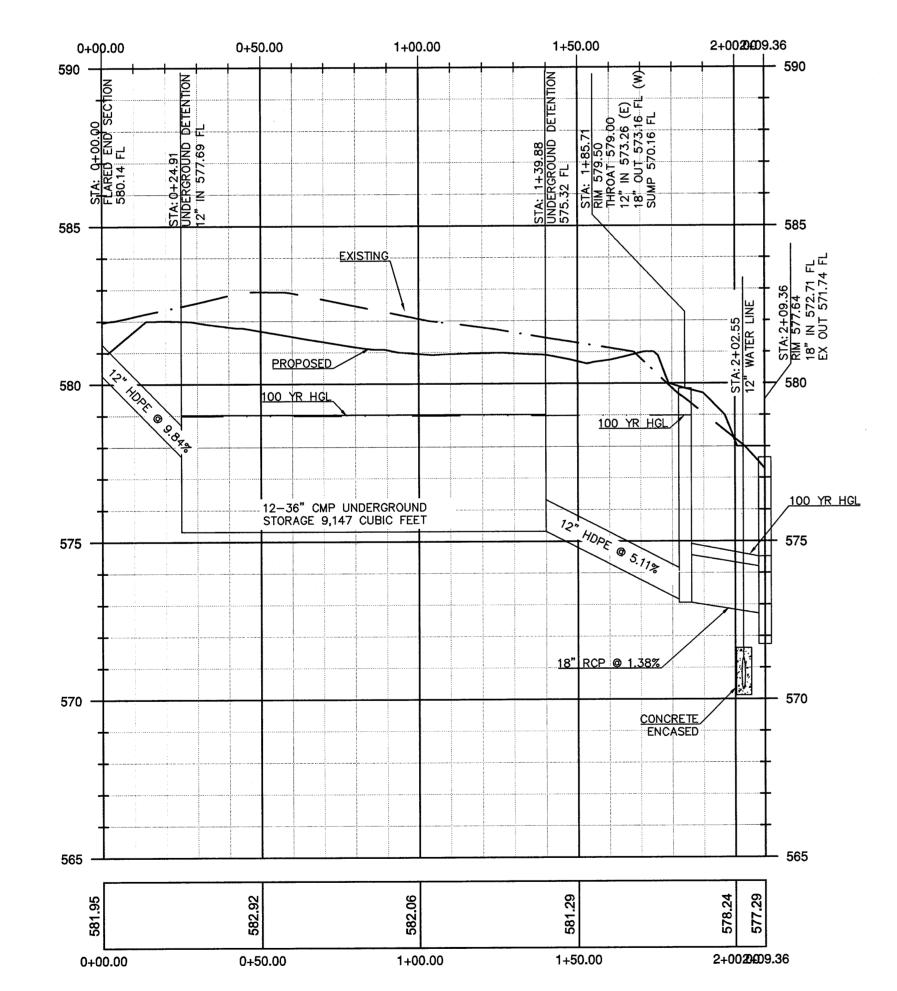


TEXAS COA #F-8576

STORM SEWER PROFILES

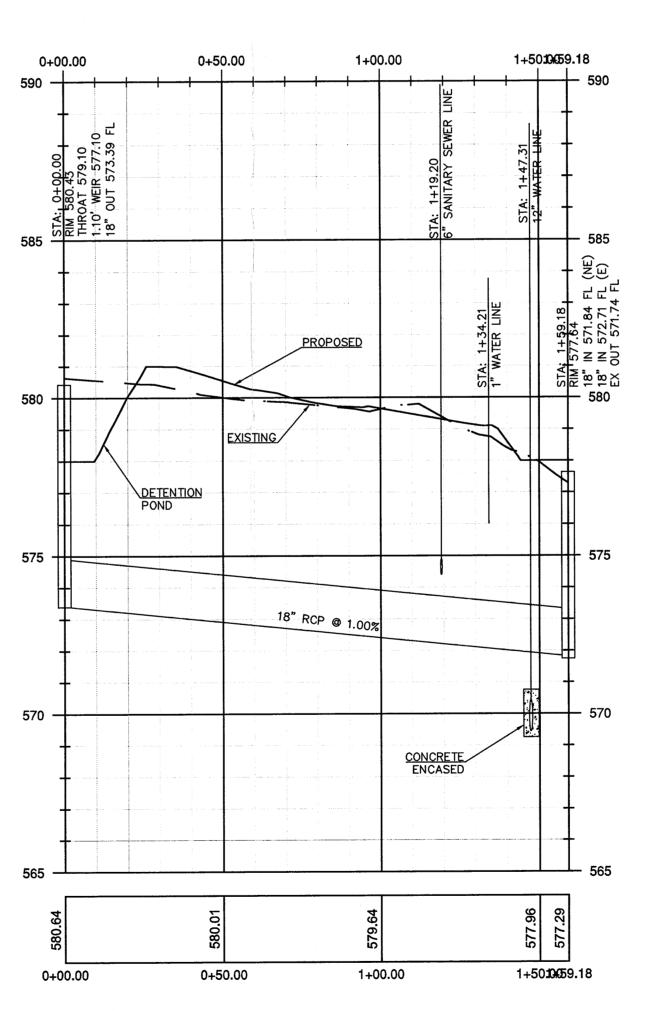
AS-BUILT

C2.1

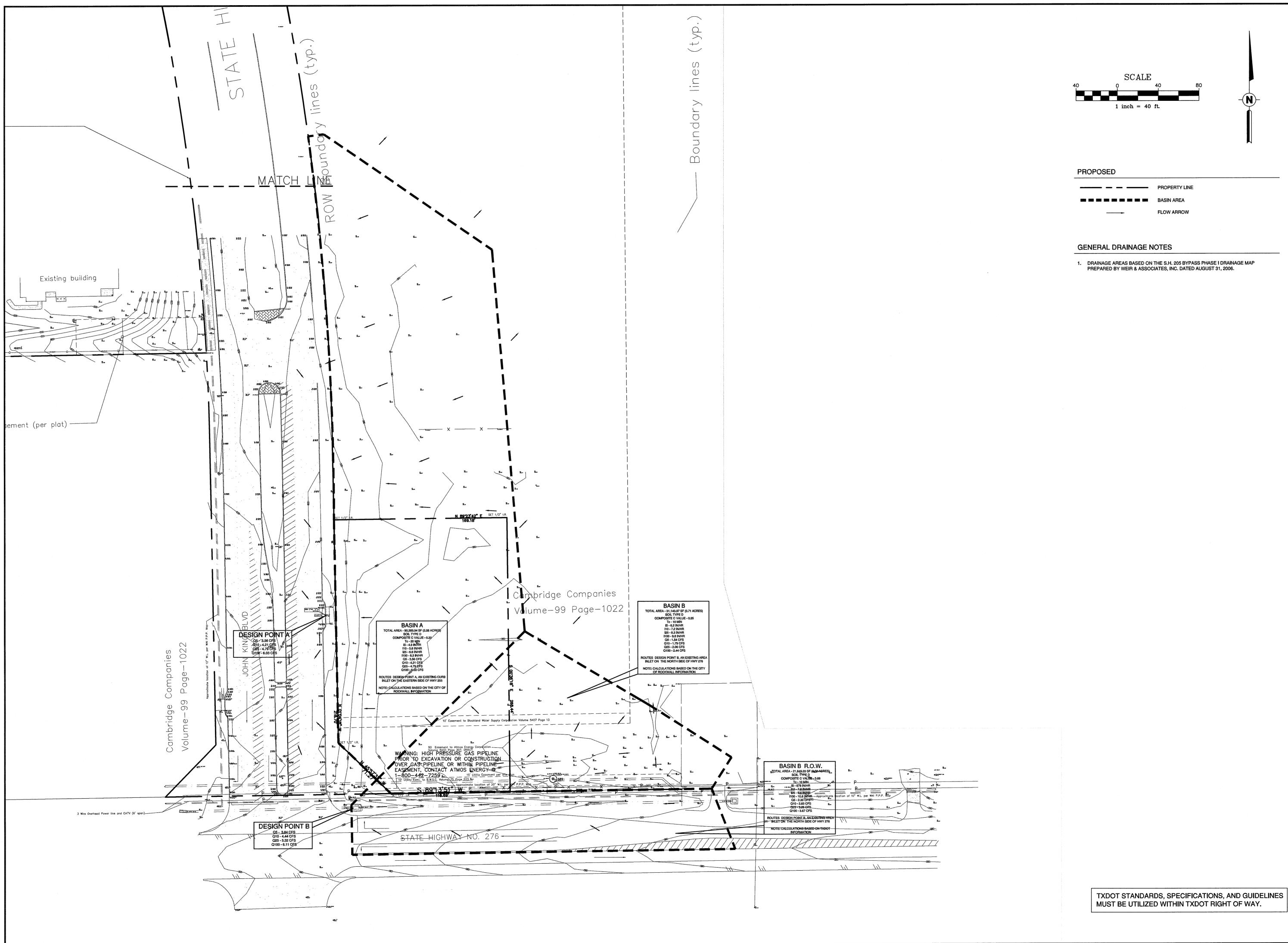


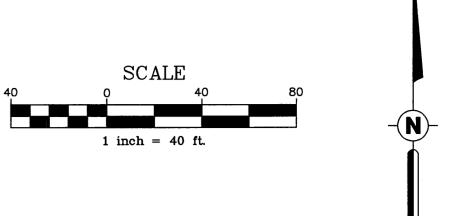
7-ELEVEN STORM SEWR Horizontal Scale - 1"=30' Vertical Scale - 1"=3'

NOTE: INITIAL HYDRAULIC GRADELINE WAS DETERMINED FROM PHASE I S.H. 205 BYPASS FROM S.H. 276 TO INTERSTATE 30 PLANS, SHEET D110, PREPARED BY WIER & ASSOCIATES, INC. DATED 11/30/07.



OFFSITE STORM SEWER
Horizontal Scale - 1"=30'
Vertical Scale - 1"=3'





PROPERTY LINE FLOW ARROW

GENERAL DRAINAGE NOTES

DRAINAGE AREAS BASED ON THE S.H. 205 BYPASS PHASE I DRAINAGE MAP PREPARED BY WEIR & ASSOCIATES, INC. DATED AUGUST 31, 2006.



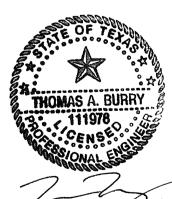
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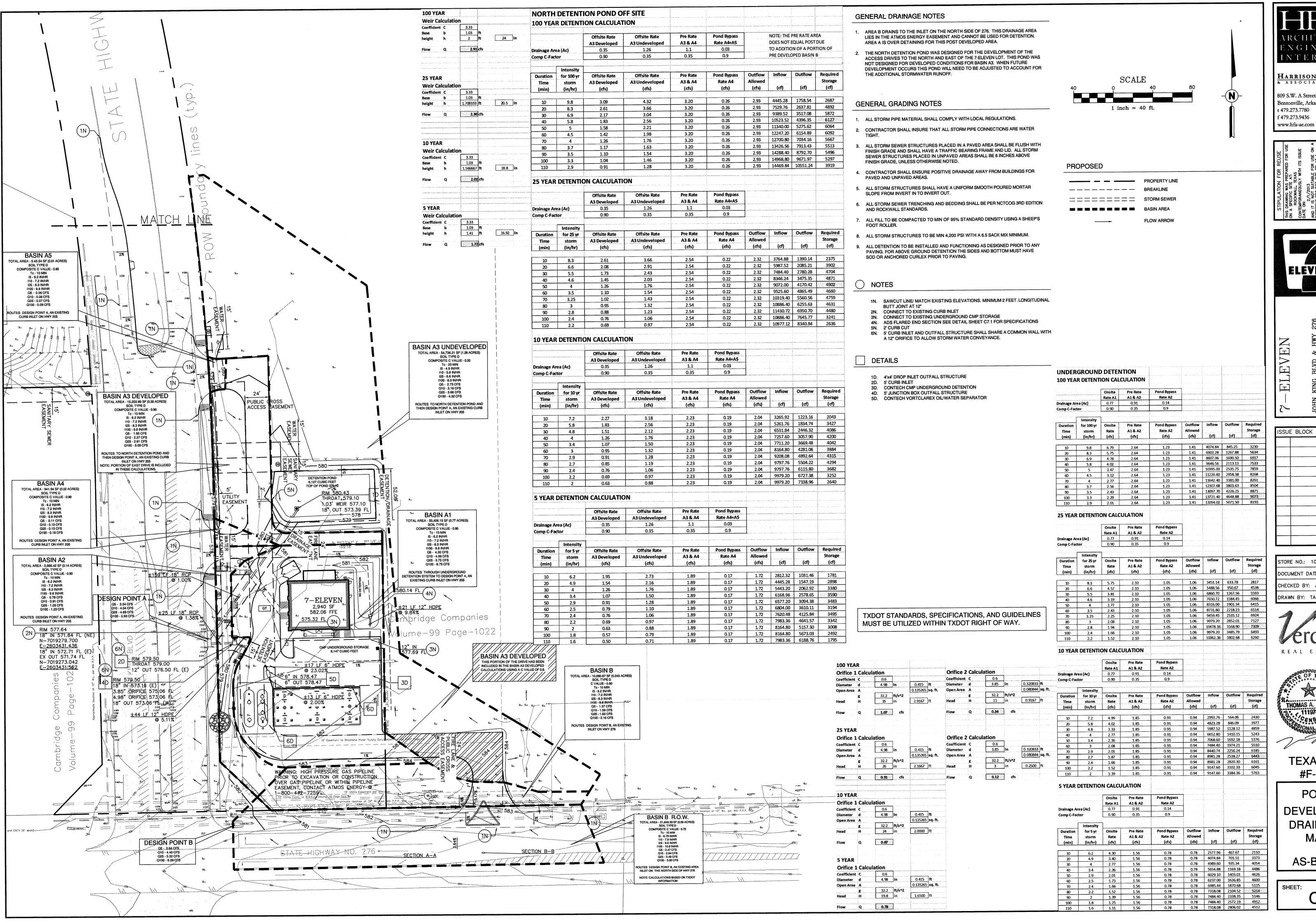


TEXAS COA #F-8576

PRE DEVELOPED DRAINAGE MAP

AS-BUILT

C2.2



ENGINEER INTERIOR

HARRISON FRENC & ASSOCIATES, LT

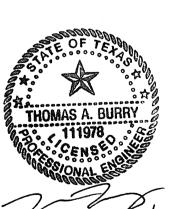
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ISSUE BLOCK

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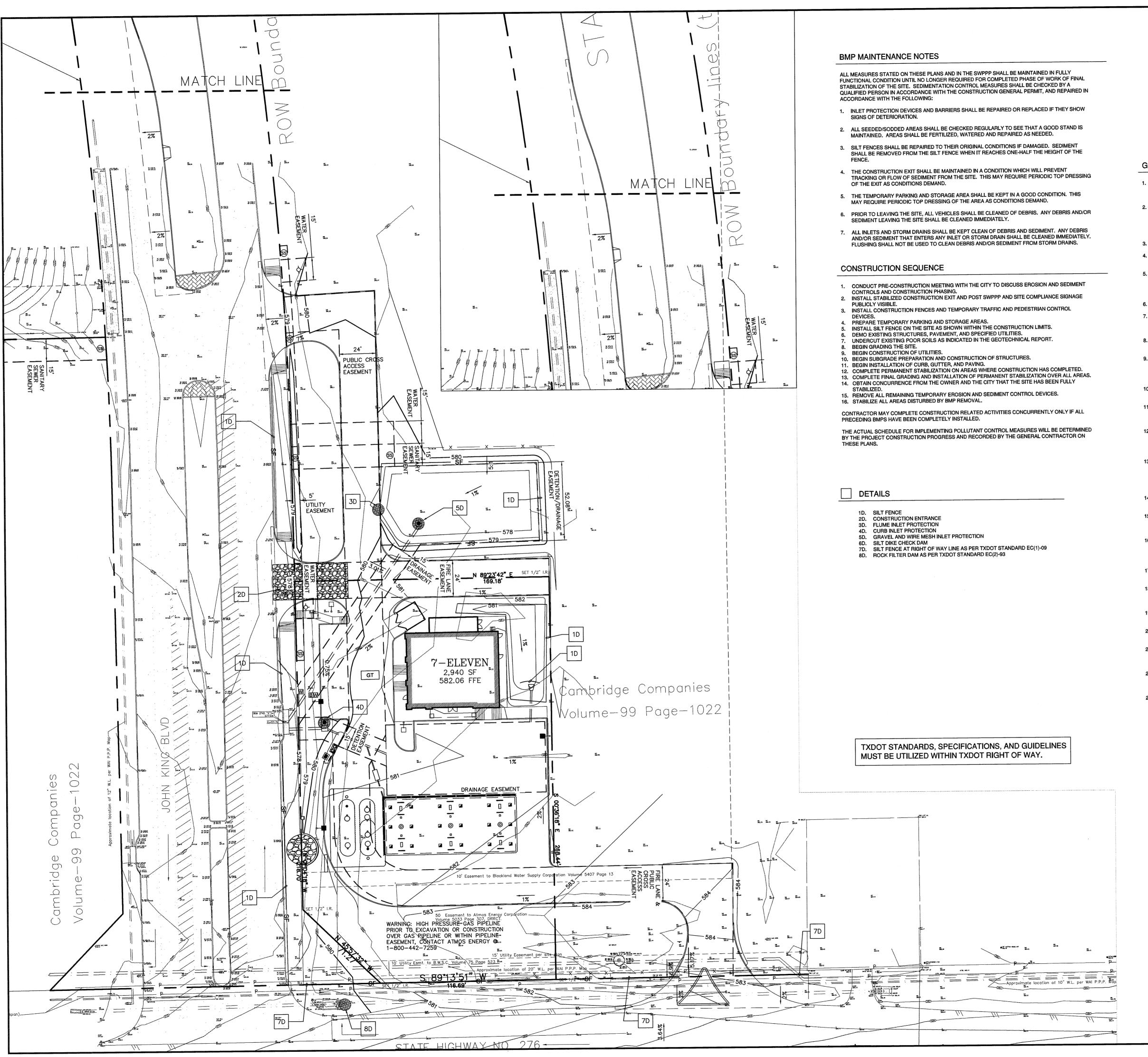
REAL ESTATE



TEXAS COA #F-8576

POST DEVELOPED DRAINAGE

AS-BUIL



1 inch = 30 ft.

GENERAL EROSION CONTROL NOTES

- 1. ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF <u>TEXAS</u> NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT.
- 2. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP AND THAT CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DIRECTED BY PERMITTING AGENCY AND OWNER OR AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- 3. PERMIT FOR ANY CONSTRUCTION ACTIVITY MUST BE MAINTAINED ON SITE AT ALL TIMES.
- 4. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

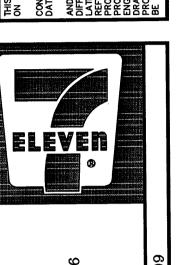
 5. CENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE
- 5. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- ALL WASH WATER SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- 8. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- 9. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- 10. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- 11. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 14 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
- 12. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE SODDED/LANDSCAPED PER PLANS. THESE AREA SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- 13. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS
 OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- 15. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- 16. ON-SITE AND OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- 17. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- 18. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT EROSION AND SEDIMENTATION.
- 19. CONTRACTOR SHALL DESIGNATE/IDENTIFY AREAS INSIDE THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.
- 20. REFER TO SWPPP FOR REPORTABLE SPILL QUANTITIES OF PETROLEUM PRODUCTS AND/OR HAZARDOUS WASTES.
- 21. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH THE EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN, NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- 22. NO PAVING IS ALLOWED TO BE PLACED PRIOR TO SIDES AND BOTTOMS OF DETENTION PONDS ARE STABILIZED WITH EITHER ANCHORED CURLEX OR SOD, ALSO ALL DETENTION SYSTEMS MUST BE FULLY CONSTRUCTED PRIOR TO ANY PAVING.
- 23. 75-80% OF ALL DISTURBED AREA SHALL HAVE A MIN 1" TALL GRASS PRIOR TO ENGINEERING ACCEPTING THE PROJECT.



HARRISON FRENCI

809 S.W. A Street, Suite 201 Bentonville, Arkansas 72712 t 479.273.7780 f 479.273.9436 www.hfa-ae.com





JOHN KING BLVD & HWY 27
ROCKWALL, TEXAS
PROJ NUMBER: 12-11-9900

ISSUE BLOCK

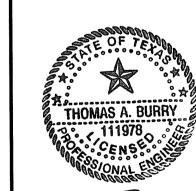
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TEXAS COA #F-8576

EROSION &
SEDIMENT
CONTROL
PLAN

AS-BUILT

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- ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF TEXAS NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT, AND FAMILIARIZE THEMSELVES WITH ITS CONTENTS.
- PRIOR TO CONSTRUCTION. THE GENERAL CONTRACTOR SHALL COMPLETE THE NOTICE OF INTENT (NOI) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE TPDES GENERAL PERMIT TXR150000, AND SUBMIT THE NOI TO THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (TCEQ), AS OUTLINED ON THE NOI AND IN THE GENERAL PERMIT.
- UNLESS OTHERWISE NOTED IN THE GENERAL PERMIT AND ON THE NOI, PROVISIONAL COVERAGE UNDER THE GENERAL PERMIT BEGINS SEVEN (7) DAYS AFTER THE COMPLETED NOI IS POSTMARKED FOR DELIVERY, OR IMMEDIATELY IF THE COMPLETED NOI IS SUBMITTED ELECTRONICALLY.
- 4. PRIOR TO BEGINNING CONSTRUCTION A COPY OF THE NOI AND A COPY OF THE SITE NOTICE, AS OUTLINED IN THE GENERAL PERMIT, SHALL BE POSTED AT THE CONSTRUCTION SITE IN A PUBLICLY VISIBLE LOCATION
- UNLESS OTHERWISE NOTED IN THE GENERAL PERMIT, AN ACKNOWLEDGEMENT CERTIFICATE ACKNOWLEDGING COVERAGE UNDER THE GENERAL PERMIT WILL BE RECEIVED FOR THE PROJECT FROM TOPO. CONTRACTOR SHALL THEN WRITE THE AUTHORIZATION NUMBER ASSIGNED IN THE "GENERAL PERMIT AUTHORIZATION NUMBER" SECTION OF THIS PLAN.
- THE GENERAL CONTRACTOR SHALL COMPLETE THE "GENERAL CONTRACTOR" SECTION OF THIS PLAN.
- ALL SUBCONTRACTORS THAT WILL IMPLEMENT AND MAINTAIN THE POLLUTION CONTROL MEASURES AND/OR ARE INVOLVED IN GROUND DISTURBING ACTIVITIES ON THE SITE SHALL BE LISTED IN THE "SUBCONTRACTOR" SECTION OF THIS PLAN.

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GENERAL	PERIVILI	AUTHORIZATIO	N NUMBER

PROJECT DEVELOPER	PROPERTY OWNER

VERDAD REAL ESTATE 502 NORTH CARROLL AVE, SUITE 120 SOUTHLAKE, TX 76092 (817) 912-0524

VERDAD REAL ESTATE 502 NORTH CARROLL AVE, SUITE 120 SOUTHLAKE, TX 76092 (817) 912-0524

GENERAL CONTRACTOR

Certification:

"I certify that I understand the terms and conditions of the National Pollutant Discharge Elimination System (NPDES) General Permit that authorizes the storm water discharges associated with industrial activity from the construction site Identified as part of this certification. The SWPPP and General Permit have been made available to me to review and I agree to stay in compliance with the permit."

TELEPHONE	
CONTACT	

SUBCONTRACTOR

Certification:

"I certify that I understand the terms and conditions of the National Pollutant Discharge Elimination System (NPDES) General Permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification. The SWPPP and General Permit have been made available to me to review and I agree to stay in compliance with the permit."

COMPANY NAME TELEPHONE CONTACT

SUBCONTRACTOR

Certification

"I certify that I understand the terms and conditions of the National Pollutant Discharge Elimination System (NPDES) General Permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification. The SWPPP and General Permit have been made available to me to review and I agree to stay in compliance with the permit."

COMPANY NAME TELEPHONE CONTACT ADDRESS

SUBCONTRACTOR

"I certify that I understand the terms and conditions of the National Pollutant Discharge Elimination System (NPDES) General Permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification. The SWPPP and General Permit have been made available to me to review and I agree to stay in compliance with the permit."

COMPANY NAME TELEPHONE CONTACT ADDRESS

I. INTRODUCTION & PROJECT DESCRIPTION

This SWPPP has been prepared for land disturbance activities associated with the construction of the following:

7-Eleven Site # 1029049 John King Blvd and HWY 276 ockwall, Rockwall County, Texas

This SWPPP must be implemented prior to the start of construction

Construction phase pollutant sources anticipated at the site are disturbed soil, vehicle fuels and lubricants, chemicals and coatings associated with pavement installation, construction generated litter and debris, and building materials.

The existing site consists of grass, several trees, and a few utilities, available for construction and is approximately 0.99 acres. Proposed construction will consist primarily of grading, paving, utility and landscape construction for a proposed 3,010 square foot convenience store building, associated fueling dispensers, canopy and underground storage tanks for public vehicle fueling

This SWPPP must be implemented before construction begins on the site. Applicability of this SWPPP will terminate when disturbed areas area stabilized as outlined in the General Permit, permanent erosion and sediment controls are installed temporary erosion and sediment controls are removed, constructions activities covered herein have ceased, the Notice of Termination has been submitted, and the project is completed.

The General Permit for storm water discharges associated with construction activities prohibits most non-storm water discharges during the construction phase. Allowable non-storm water discharges that could occur during construction on this project, which are generally covered by the General Permit, include the following: (Contractor shall consult the General Permit to determine specific allowable discharges that are applicable to this specific project.

- Discharges from fire-fighting activities Fire hydrant flushing
- · Water used to wash vehicles where detergents are not used Water used to control dust in accordance with the General Permit
- Potable water including uncontaminated water line flushings Routine external building washing where detergents are not used
- Uncontaminated air conditioning or compressor condensate
- Uncontaminated groundwater or spring water

Best Management Practices (BMPs) must be implemented for all non-storm water discharges for the duration of the project. Each non-storm water discharge shall be noted in the SWPPP and have proper erosion and sediment controls in place, with the possible exception of discharges from fire fighting activities.

II. SUMMARY OF PERMIT AND PROGRAM REQUIREMENTS

The Storm Water Pollution Prevention Plan (SWPPP) includes, but is not limited to, this SWPPP with appendices, the Erosion and Sedimentation Control Plan(s) and Details included in the Construction Drawings, the General Permit, all records of inspections and activities which are created during the course of the project, and other documents as may be included by reference to this SWPPP. Changes, modifications, revisions, additions, or deletions shall become part of this SWPPP as

The General Contractor and all subcontractors involved with a construction activity that disturbs site soil or who implement a pollutant control measure identified in the SWPPP must comply with the following requirements of the National Pollutant Discharge Elimination System (NPDES) General Permit and any local or state governing agency having jurisdiction concerning NPDES, storm water, and erosion and sediment control.

A. General Permit Information

All requirements as outlined by the Texas Commission on Environmental Quality (TCEQ) and under the TPDES Construction General Permit (TXR 150000) shall be followed by all contractors associated with this project.

B. Agency Information for Storm Water Pre-Construction Meeting

A Pre-Construction Meeting is required for this project. The General Contractor shall invite the City Engineer, 7-Eleven Construction Manager, and ground-disturbing contractors to the Storm Water Pre-Construction meeting.

C. Retention of Records

A complete copy of the SWPPP, including copies of all inspection reports, plan revisions, etc., must be retained at the project site at all times during the duration of

D. Contractor/Sub-Contractor List

The General Contractor must provide names and addresses of all subcontractors working on this project who will be involved with the major construction activities that disturb site soil or otherwise affect BMP implementation. This information must be kept at the project site at all times.

E. Contractor/Sub-Contractor Certification Form

The General Contractor and all contractors and/or subcontractors that will implement, maintain and/or impact the pollution control measures in the SWPPP and/or are involved in ground-disturbing activities on the site must sign a copy of the Contractor certification included on this plan. An authorized representative from each company on the construction project must sign this form certifying that company representatives understand the SWPPP and General Permit requirements relating to storm water discharges. This Information must be kept at the project site at all times.

F. SWPPP Updates and Amendments

The General Contractor must update the SWPPP and Site Maps daily to reflect the progress of construction activities and general changes to the project site. SWPPP contact and contractor information and the record of site stabilization activities log must be maintained by the General Contractor throughout the project.

BMPs that do not impact the hydraulic design of the site may be modified or added by the General Contractor, and site maps updated accordingly, as needs arise. Examples of BMPs that do not typically impact the hydraulic design of the site include silt fence, silt dike, wattles, construction exit and various forms of temporary and permanent erosion controls (blankets, nets, seed, sod, etc.). Examples of BMPs that commonly impact hydraulic design include storm water basins, diversions, check dams, inlet protection or any product, process, or system that changes the storm water flow path or storm water storage capacity of the site or is located in an

Amending the SWPPP does not mean that it has to be reprinted. It is acceptable to add addenda, sketches, new sections, details, and/or revised drawings that are

G. Discharge of Petroleum Products or Hazardous Substances

Discharge of petroleum products or other hazardous substances into storm water or the storm water (storm sewer) system is subject to reporting and clean up requirements. Refer to the General Permit for additional information.

H. Notice of Termination

Once construction has ended and the site has been stabilized as outlined in the General Permit. The General Contractor shall coordinate with the 7-Eleven Construction Manager for completion and submittal of the Notice of Termination (NOT).

I. General Contractors Responsibility

This SWPPP intends to control water-borne, air-borne and liquid pollutant discharges by some combination of interception, sedimentation, filtration, and containment. The General Contractor and subcontractors implementing this SWPPP must remain alert to the need to periodically refine the update the SWPPP in order to accomplish the intended goals. The General Contractor is ultimately responsible for all site conditions and permit compliance

J. Log of Construction Activity

A record of dates must be maintained on site, until the NOT has been submitted, for the following:

- Major ground-disturbing activities including earthwork or grubbing
- Construction activities temporarily or permanently cease on any portion of the site
- Stabilization measures are initiated and/or completed BMPs are installed and/or permanently removed

A project Superintendent must walk the site with the regulatory inspector and document any deficiencies noted during the inspection. Deficiencies of any type, field or documentation-related, Identified during the regulatory inspection must be reported to the 7-Eleven Construction Manager immediately and resolved within 48-hours unless State regulations require a shorter time period.

All storm water or erosion and sediment (E&S) agency visits to the jobsite, whether an official inspection occurred or not, must be reported to the 7-Eleven Construction Manager. Any agency inspector, including OSHA and utility inspectors, that comment on storm water BMPs (inlet protection, track out, etc.) must be reported to the 7-Eleven Construction Manager.

A log of all inspections by Federal, State, or local storm water or other environmental agencies shall be kept on site at all times.

III. CONSTRUCTION SEQUENCE

Described below are the major construction activities that are the subject of this SWPPP. Also included in the sequence are BMP installation activities that must take place prior to construction activities. Down slope protective measures must always be in place before soil is disturbed.

Conduct pre-construction meeting with the city to discuss erosion and sediment controls and construction phasing. Install stabilized construction exit and post swppp and site compliance signage publicly visible. install construction fences and temporary traffic and pedestrian control devices.

Prepare temporary parking and storage areas. Install silt fence on the site as shown within the construction limits. Demo existing structures, pavement, and specified utilities. Undercut existing poor soils as indicated in the geotechnical report.

Begin grading the site. Begin construction of utilities. Begin subgrade preparation and construction of structures.

Begin Installation of curb, gutter, and paving. Complete permanent stabilization on areas where construction has completed Complete final grading and installation of permanent stabilization over all areas.

Obtain concurrence from the owner and the city that the site has bee fully stabilized.

Remove all remaining temporary erosion and sediment control devices Stabilize all areas disturbed by bmp removal.

Contractor may complete construction related activities concurrently only if all preceding BMPs have been completely installed.

The actual schedule for implementing pollutant control measures will be determined by project construction progress and recorded by the General Contractor on the Erosion and Sediment Control Plans.

IV. SITE DESCRIPTION

A. Site Location

Address: John King Blvd and HWY 276 Latitude: Longitude: 32°54'41'

Adjacent surrounding properties include: Undeveloped property to the north, John King Blvd to the west, HWY 276 to the south, and undeveloped property to

B. Site Topography:

Lowest elevation on site: 584.90 Highest elevation on site: 577.67

Percent slope variation: Site generally slopes south to north at approximately 1.5%

Site soils consist of Houston Black Clay. The Hydrologic Soil Group rating for site soils is Group D.

D. Total Site Area, Disturbed Area, and Runoff Coefficient: Total Site Area: 0.99 Acres Total Disturbed Area: 2.09 Acres

Runoff Coefficient: 0.90 (Impervious) 0.35 (Pervious)

E. Receiving Surface Waters:

Buffalo Creek Receiving Water: Distance to Receiving Water: 1,200 feet

Storm water runoff from the site travels northwest to Buffalo Creek and then to the Rockwall Lake

Flood note: This site is not in any presently established floodway or floodplain as shown in the federal emergency management agency flood insurance rate map 48453C0260H dated September 26, 2008

F. Threatened and Endangered Species:

Because the site is relatively small and in a developing area, it is not expected that any threatened or endangered species exist on this site that could be impacted by this project.

Because the site is relatively small and in a developing area, it is not expected that any historically significant properties exist on this site that could be impacted by this project.

V. STORM WATER POLLUTION PREVENTION MEASURES AND CONTROLS

A variety of storm water pollutant controls are recommended for this project. Some controls are intended to function temporarily and will be used as needed for pollutant control during the construction period. These include temporary sediment barriers. Permanent stabilization will be accomplished in all disturbed areas by covering the soil with pavement, building foundation, vegetation, or other forms of soil stabilization.

A. Erosion and Sediment Controls

- 1. Minimization of Disturbed Areas: Contractor shall keep the areas of disturbance to a minimum during construction.
- 2. Soil Stabilization: Soil stabilization is proposed to be employed to prevent soil from eroding and leaving the site. The primary techniques to be used at this project for stabilizing site soils will be to provide a protective cover of grass, pavement and building structures
- 3. Temporary Seeding or Stabilization: All disturbed areas that will be inactive for 7 days or more, shall be stabilized temporarily with the use of fast-germinating annual grass/grain varieties appropriate for site soil and climate conditions, straw/hay mulch, wood cellulose fibers, tackifiers, netting and/or blankets. Soil stockpiles and diversion ditches/berms shall be stabilized to prevent erosion and dust.
- 4. Permanent Seeding, Sodding or Mulching: All areas at final grade shall be seeded or sodded within 7 days after completion of work in that area. Seed immediately after final grade is achieved and soils are prepared to take advantage of soil moisture and seed germination. At the completion of ground disturbing activities the entire site must have permanent vegetative cover, that are not covered by impervious material such as building or pavement. To minimize the potential for erosion and maximize seed germination and growth, the General Contractor shall evaluate the short and long-term local forecast prior to applying permanent seed or sod.
- Final stabilization is achieved when perennial vegetative cover provides permanent stabilization with a density greater than 70 percent over the entire area to be stabilized by vegetative cover. This area is exclusive of areas that are covered with rock, landscape mulch, pavement, building or other permanent
- 5. Structural Controls: Storm water runoff for this project will be handled by the use of structural controls such as sedimentation/sllt fences and construction exit. Locations for and details of structural controls can be found on the Construction Plans. In the case there are questions regarding storm water runoff, the Contractor shall refer to the General Permit for requirements.
- 6. Slit Fence: Silt fence shall be a synthetic permeable woven or non-woven geotextile fabric incorporating metal support stakes at intervals sufficient to support the fence, water, and sediment retained by the fence. The fence is designed to retain sediment laden storm water and allow settlement of suspended soils before the storm water flows through the fabric and discharges off site. Silt fence shall be located on the contour to capture overland, low velocity sheet flows and is installed with a wire fence backing for additional support. Silt fences shown on this site are to be used to prevent silt from leaving the construction site. If the Contractor uses silt fence in areas other than what are indicated on the Construction Plans, drainage area shall be limited to 1/2 acre per 100 linear feet of fence for slopes less than 2 percent. Install slit fence at a fairly level grade along the contour with the ends curved uphill to provide sufficient upstream storage volume for the anticipated runoff.
- 7. Construction Exit: Construction exit shall consist of gravel material laid over geotextile fabric. Gravel shall be of adequate size to sufficiently disturb the action of vehicles traveling over the exit to dislodge soil from the vehicle. All site access must be confined to the construction exit. It may be necessary to install a wheel wash system to knock off excess soil from vehicles. If a wheel wash system is employed, a sediment trap shall be installed to treat wash water prior to it leaving the site.
- 8. Storm Sewer Inlet Protection: Curb and grated inlets are protected from the intrusion of sediment through a variety of measures as shown on the details included in the Construction Plans. The primary mechanism is to place controls in the path of flow sufficient to slow the sediment laden water to allow settlement of suspended soils before discharging into the storm sewer. It is possible that as construction progresses from storm sewer installation through to paving that the inlet protection devices will change. Care shall be taken in placement of inlet protection as many devices create ponding of storm water
- 9. Check Dams: Defined channels subject to concentrated flows in larger quantities and higher velocities shall be protected with rock or other manufactured device that can be used as a check dam. The dams impound sediment laden water and allow for settlement of suspended soil before storm water flows over and through the device. At a minimum, dams shall be placed along the water course at linear intervals in which the elevation of the bottom of the upper most check dam is at the same elevation as the top of the check dam immediately below it. This will allow the most ponding capacity while not increasing velocity of water flowing through the channel.

B. Other Controls

1. Dust Control: Construction traffic must enter and exit the site at the stabilized construction exit. The purpose is to trap dust and mud that would otherwise be carried off-site by construction traffic. Large areas of soil that are denuded of vegetation and have no protection from particles being picked up and carried by wind should be protected with a temporary cover or kept under control with water or other soil adhering products to limit wind transported particles exiting the site perimeter.

Water trucks or other dust control agents will be used as needed during construction to minimize dust generated on the site. Tackifiers may be used to hold soil In place and prevent dust. Manufacturer recommendations for application locations and rates must be used for dust control applications. Dust control must be provided by the General Contractor to a degree that is in compliance with applicable local and state dust control regulations.

2. Dewatering: Verify discharges from dewatering activities are allowed non-storm water discharges under the General Permit. Obtain a dewatering permit according to state and local regulations, if discharges from dewatering activities are not allowed under the General Permit. Discharges from dewatering operations must be directed through an appropriate pollution prevention/treatment measure, such as a pump discharge filter bag, sediment trap or sediment basin prior to being discharged from the site or into a water body of the State. Under no circumstances are discharges from dewatering operations to be discharged directly into streams, rivers, lakes or other areas off-site. Likewise, discharges into storm sewer systems that do not drain to a suitable on-site treatment facility, such as a basin, are also prohibited. Discharges from dewatering operations must also be conducted in a manner sufficient to prevent erosion from the discharge runoff.

Use best management practices when dewatering. Place intake hose on a flotation or similar device and do not pump directly from the bottom of the basin, trench, etc. Always pump through a sediment control BMP and dewater within the permitted limits of disturbance to ensure discharge criteria are achieved. Do not discharge on a slope greater than three percent or within 20' of a surface water body. Dewatering should not occur during or immediately after precipitation

3. Solid Waste Disposal: No solid materials, including building materials, are allowed to be discharged from the site with storm water. All solid waste, including disposable materials incidental to the major construction activities, must be collected and placed in containers. The containers will be emptied as necessary by a contract trash disposal service and hauled away from the site. Covers for the containers will be provided as necessary to meet state and local requirements. Construct covers as practicable, or required, to prevent storm water contact and pollutant discharges from solid waste receptacles.

ially polluting substances should be handled in a manner consistent with the impact they represe 4. Sanitary Facilities: All personnel involved with construction activities must comply with state and local sanitary or septic system regulations. Temporary sanitary facilities shall be provided at the site throughout the construction phase. They must be utilized by all construction personnel and shall be serviced by a commercial operator. Portable toilets must be securely anchored and are not allowed within 30' of inlets or permitted limit of disturbance or within 50'

contained and disposed of so that it will not flow from the site or enter groundwater, even if this requires removal, treatment, and disposal of soil. In this regard,

Substances that have the potential for polluting surface and/or groundwater must be controlled by whatever means necessary in order to ensure that they do not discharge from the site. As an example, special care must be exercised during equipment fueling and servicing operations. If a spill occurs, it must be

of a water of the State. Any secondary containment for portable toilets required by State or local regulations shall be provided by the Contractor. 5. Non-Storm Water Discharges: Non-storm water components of site discharges must be clean water. Water used for construction which discharges from the site must originate from a public water supply or private well approved by the State Health Department. Water used for construction that does not originate from an approved public supply must not discharge from the site. It can be retained in ponds until it infiltrates and evaporates. Other non-storm water discharges would include ground water. Only uncontaminated ground water can be discharged from the site, as allowed by and in accordance with applicable local ground water dewatering permits/regulations. When non-storm water is discharged from the site, it must be done in a manner such that it does not cause erosion of the soil during discharge.

Process water such as power washing and concrete cutting must be collected for treatment and disposal. It is not to be flushed into the site storm drain system. If any dewatering permit is required then it will be the responsibility of the Contractor to obtain.

- 6. Concrete Waste from Concrete Ready-Mix Trucks: Discharge of excess or waste concrete and/or wash water from concrete trucks will be allowed on the construction site, but only in specifically designated lined and diked areas prepared to prevent contact between the concrete and/or wash water and storm water that will be discharged from the site. Alternatively, waste concrete can be placed into forms to make rip rap or other useful concrete products. The cured residue from the concrete washout diked areas shall be disposed in accordance with applicable state and federal regulations. This jobsite superintendent is responsible for assuring that these procedures are followed. Follow all applicable environmental regulations for concrete wash out pits.
- 7. Masons' Area: To the extent practical, all masonry tools, material, including sand and sacked cement or mortar materials, and equipment shall be located within the area identified. Runoff control, such as berms or diversion ditches, silt fence, straw wattles, or other means of containment shall be provided to prevent the migration of storm water pollutants in runoff from the masons' area. Receptacles for debris and trash disposal shall also be provided.
- 8. Fuel Tanks (not including permanent underground storage tanks): Temporary on-site fuel tanks for construction vehicles shall meet all state and federal regulations. Tanks shall have approved spill containment with the capacity required by the applicable regulations. From NFPA 30: All tanks shall be provided with secondary containment (i.e. containment external to and separate from primary containment). Secondary containment shall be constructed of materials of sufficient thickness, density, and composition so as not to be structurally weakened as a result of contact with the fuel stored and capable of containing discharged fuel for a period of time equal to or longer than the maximum anticipated time sufficient to allow recovery of discharged fuel. It shall be capable of containing 110% of the volume of the primary tank if a single tank is used, or in the case of multiple tanks, 150% of the largest tank or 10% of

The tanks shall be in sound condition free of rust or other damage which might compromise containment. Fuel storage areas shall meet all EPA, OSHA and other regulatory requirements for signage, fire extinguisher, etc. Hoses, valves, fittings, caps, filler nozzles, and associated hardware shall be maintained in proper working condition at all times. The location of fuel tanks shall be shown on the Site Maps and shall be located to minimize exposure to weather and

A Spill Prevention, Control and Countermeasure (SPCC) Plan must be developed if aboveground oil storage capacity at the construction site exceeds amount specified by the state. Containers with a storage capacity of 55-gallons or less are not included when calculating site storage capacity. The General Contractor shall develop and implement a SPCC Plan in accordance with the Oil Pollution Prevention regulation.

9. Hazardous Material Management and Spill Reporting Plan: Any hazardous or potentially hazardous material that is brought onto the construction site shall be handled properly in order to reduce the potential for storm water pollution. All materials used on this construction site shall be properly stored, handled, dispensed and disposed of following all applicable label directions. Flammable and combustible liquids shall be stored and handled according regulations. Only approved containers and portable tanks shall be used for storage and handling of flammable and combustible liquids.

Material Safety Data Sheets (MSDS) information shall be kept on site for any and all applicable materials.

the aggregate, whichever is larger.

In the event of an accidental spill, immediate action shall be undertaken by the General Contractor to contain and remove the spilled material. All hazardous materials shall be disposed of by the Contractor in the manner specified by federal, state and local regulations and by the manufacturer of such products. As soon as possible, the spill shall be reported to the appropriate agencies. As required under the provisions of the Clean Water Act, any spill or discharge entering waters of the United States shall be properly reported. The General Contractor shall prepare a written record of any spill and associated clean-up activities of petroleum products or hazardous materials in excess of 1 gallon or reportable quantities, whichever is less. The General Contractor shall provide notice to Construction Manager immediately upon identification of a reportable spill.

Any spills of petroleum products or hazardous materials in excess of Reportable Quantities as defined by EPA or the state or local agency regulations, shall be immediately reported to the EPA National Response Center (1-800-424-8802) and appropriate State agency as listed in the General Permit. In order to minimize the potential for a spill of petroleum product or hazardous materials to come in contact with storm water, the following steps will be

• All materials with hazardous properties (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, paint solvents,

- additives for soil stabilization, concrete, curing compounds and additives, etc.) shall be stored in a secure location, under cover, when not in use. The minimum practical quantity of all such materials shall be kept on the job site and scheduled for delivery as close to time of use as practical.
- · A spill control and containment kit (containing for example, absorbent material such as kitty litter or sawdust, acid neutralizing agent, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) shall be provided on the construction site.
- All of the product in a container shall be used before the container is disposed of. All such containers shall be triple rinsed, with water prior to disposal. The rinse water used in these containers shall be disposed of in a manner in compliance with state and federal regulations and shall not be allowed to mix with storm
- · All products shall be stored in and used from the original container with the original product label.
- · All products shall be used in strict compliance with instructions on the product label.
- . The disposal of excess or used products shall be in strict compliance with instructions on the products label.

VI. LOCAL / STATE / FEDERAL PLANS

In addition to this SWPPP, construction activities associated with this project shall comply with any guidelines set forth by local, state, and federal regulatory agencies. The General Contractor shall maintain documents on the site.

VII. INSPECTIONS AND SYSTEM MAINTENANCE

Between the time this SWPPP is implemented and the completion of the project, all disturbed areas and pollutant controls shall be inspected as noted below. The purpose of site inspections is to assess performance of pollutant controls. The inspections shall be conducted by the General Contractor. Based on these inspections, the General Contractor shall decide whether it is necessary to modify this SWPPP, add or relocate controls, or revise or implement additional Best management Practices in order to prevent pollutants from leaving the site via storm water runoff. The General Contractor has the duty to cause pollutant control measures to be repaired, modified, supplemented, or take additional steps as necessary in order to achieve effective pollutant control.

- Inspections shall be conducted by qualified personnel as outlined in the General Permit.
- Inspections shall be conducted at least every seven (7) calendar days or at least once every 14 calendar days and within 48 hours following any runoff producing storm event.
- Inspections shall include all areas of the site disturbed by construction activity, off-site areas covered by the permit, and areas used for storage of materials that are exposed to precipitation.
- Inspectors shall look for evidence of, or the potential for, pollutants entering a stormwater conveyance system. Measures shall be inspected for proper installation, maintenance, and operation. Discharge locations, where accessible, shall be inspected to ascertain whether control measures are effective in minimizing impacts to receiving waters.

Examples of specific items to evaluate during site inspections are listed below. This is not intended to be a comprehensive list.

- 1. Construction Exit: Locations where vehicles enter and exit the site must be inspected for evidence of off-site sediment tracking. Contractor shall implement procedures and facilities, as needed, to prevent tracking of sediment onto roadways. Any sediment deposited on the roadway shall be swept and disposed of in an appropriate manner. Sediment shall not be washed into any storm water conveyance system.
- 2. Erosion Control Devices: Erosion control products and vegetative areas shall be inspected for the signs of rilling, rutting, or other signs of erosion, indicating the erosion control device is not functioning properly and additional erosion control devices
- 3. Sediment Control Devices: Sediment barriers, traps, and fences shall be inspected and must be cleaned out at such time as their original capacity has been reduced by 50 percent. All material excavated from behind sediment barriers or in traps and basins shall be incorporated into on-site soils or spread out on an upland portion of the site and stabilized. To minimize the potential for sediment releases from the project site perimeter control devices shall be inspected with consideration given to changing up-gradient conditions.
- 4. Material Storage Areas: Material storage areas should be located to minimize exposure to weather. Inspections shall evaluate disturbed areas and areas used for storing materials that are exposed to rainfall for evidence of, or the potential for, pollutants entering the drainage system or discharging from the site. If necessary, the materials must be covered or original covers must be repaired or supplemented. Also, protective berms must be constructed, if needed, in order to contain runoff from material storage areas. All state and local regulations pertaining to material storage areas shall be adhered to.
- 5. Vegetation: Consideration must be given to anticipated climate and seasonal conditions when specifying and planting seed. Seed shall be free of weedy species and appropriate for site soils and regional climate. Seed and mulch immediately after topsoil is applied and final grade is reached. Grassed areas shall be inspected to confirm that a healthy stand of grass is maintained. The site has achieved final stabilization once all areas are covered with building foundation or pavement, or have a stand of grass with a minimum of 70 percent density or greater of natural background cover over the entire vegetated area. Vegetated areas must be watered, fertilized, and reseeded as needed to achieve this requirement. The vegetative density must be maintained through project completion to be considered stabilized. Areas protected by erosion control blankets are not permanently stabilized until the requirement for final vegetative density is achieved.
- 6. Discharge Points: All discharge points must be inspected to determine whether erosion and sediment control measures are effective in preventing discharge of sediment from the site or impacts to receiving waters.

Ultimately, it is the responsibility of the General Contractor to assure the adequacy of site pollutant discharge controls. Actual physical site conditions or contractor practices could make it necessary to install more structural controls than are shown on the plans. For example, localized concentrations of runoff could make it necessary to install additional sediment barriers. Assessing the need for additional controls and implementing them or adjusting existing controls shall be a continuing aspect of this SWPPP until the site achieves final stabilization.

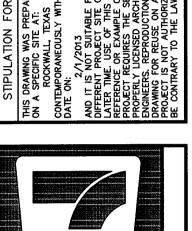
TXDOT STANDARDS, SPECIFICATIONS, AND GUIDELINES

MUST BE UTILIZED WITHIN TXDOT RIGHT OF WAY.

INTERIOR

HARRISON FRENCI & ASSOCIATES, LT

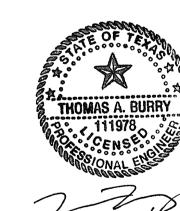
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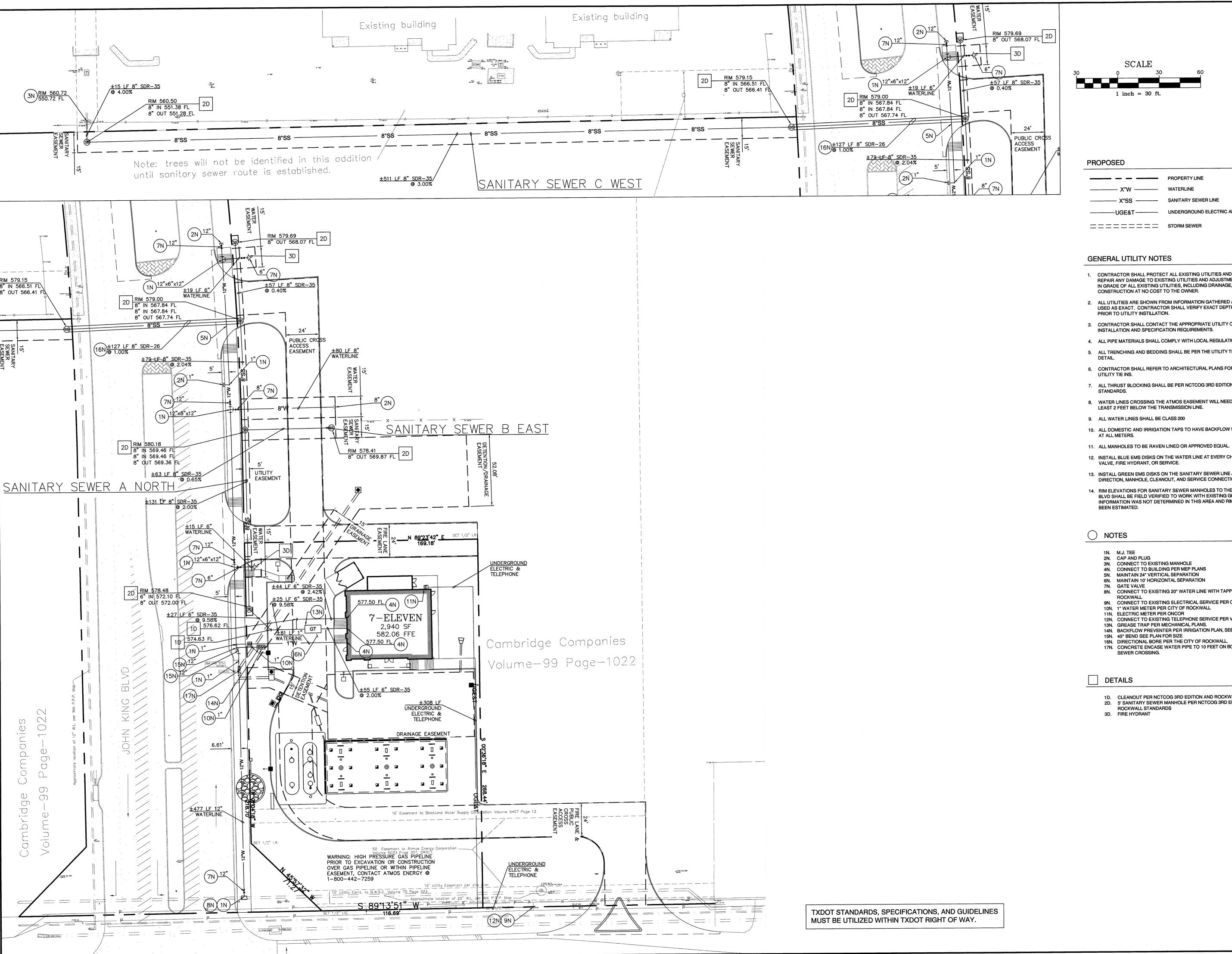
#F-8576 STORMWATE **POLLUTION PREVENTION**

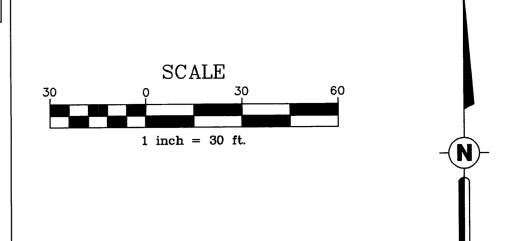
PLAN

AS-BUILT

SHEET:

C3.





PROPOSED

PROPERTY LINE WATERLINE X"SS — SANITARY SEWER LINE -----UGE&T ------ UNDERGROUND ELECTRIC AND TELEPHONE

GENERAL UTILITY NOTES

- 1. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND IS RESPONSIBLE TO REPAIR ANY DAMAGE TO EXISTING UTILITIES AND ADJUSTMENTS DUE TO CHANGE IN GRADE OF ALL EXISTING UTILITIES, INCLUDING DRAINAGE, DURING CONSTRUCTION AT NO COST TO THE OWNER.
- ALL UTILITIES ARE SHOWN FROM INFORMATION GATHERED AND SHOULD NOT BE USED AS EXACT. CONTRACTOR SHALL VERIFY EXACT DEPTHS AND LOCATIONS PRIOR TO UTILITY INSTILLATION.
- 3. CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY FOR INSTALLATION AND SPECIFICATION REQUIREMENTS.
- 4. ALL PIPE MATERIALS SHALL COMPLY WITH LOCAL REGULATIONS.
- 5. ALL TRENCHING AND BEDDING SHALL BE PER THE UTILITY TRENCH AND BEDDING
- 6. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR ALL BUILDING UTILITY TIE INS.
- 7. ALL THRUST BLOCKING SHALL BE PER NCTCOG 3RD EDITION AND ROCKWALL
- 8. WATER LINES CROSSING THE ATMOS EASEMENT WILL NEED TO BE PLACED AT LEAST 2 FEET BELOW THE TRANSMISSION LINE.
- 9. ALL WATER LINES SHALL BE CLASS 200
- 10. ALL DOMESTIC AND IRRIGATION TAPS TO HAVE BACKFLOW WITH DOUBLE CHECKS AT ALL METERS.
- 12. INSTALL BLUE EMS DISKS ON THE WATER LINE AT EVERY CHANGE IN DIRECTION,
- VALVE, FIRE HYDRANT, OR SERVICE.
- 13. INSTALL GREEN EMS DISKS ON THE SANITARY SEWER LINE AT EVERY CHANGE IN DIRECTION, MANHOLE, CLEANOUT, AND SERVICE CONNECTION.
- 14. RIM ELEVATIONS FOR SANITARY SEWER MANHOLES TO THE WEST OF JOHN KING BLVD SHALL BE FIELD VERIFIED TO WORK WITH EXISTING GRADES. TOPOGRAPHIC

○ NOTES

- 1N. M.J. TEE 2N. CAP AND PLUG
- 3N. CONNECT TO EXISTING MANHOLE 4N. CONNECT TO BUILDING PER MEP PLANS
- 5N. MAINTAIN 24" VERTICAL SEPARATION
- 6N. MAINTAIN 10' HORIZONTAL SEPARATION 7N. GATE VALVE
- 8N. CONNECT TO EXISTING 20" WATER LINE WITH TAPPING SLEEVE PER CITY OF ROCKWALL
- 9N. CONNECT TO EXISTING ELECTRICAL SERVICE PER ONCOR
- 10N. 1" WATER METER PER CITY OF ROCKWALL
- 11N. ELECTRIC METER PER ONCOR 12N. CONNECT TO EXISTING TELEPHONE SERVICE PER VERIZON
- 13N. GREASE TRAP PER MECHANICAL PLANS. 14N. BACKFLOW PREVENTER PER IRRIGATION PLAN, SEE SHEET C6.0
- 15N. 45° BEND SEE PLAN FOR SIZE
- 16N. DIRECTIONAL BORE PER THE CITY OF ROCKWALL. 17N. CONCRETE ENCASE WATER PIPE TO 10 FEET ON BOTH SIDES OF STORM

DETAILS

- 1D. CLEANOUT PER NCTCOG 3RD EDITION AND ROCKWALL STANDARDS 2D. 5' SANITARY SEWER MANHOLE PER NCTCOG 3RD EDITION AND
- ROCKWALL STANDARDS
- 3D. FIRE HYDRANT



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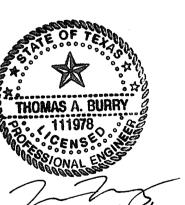




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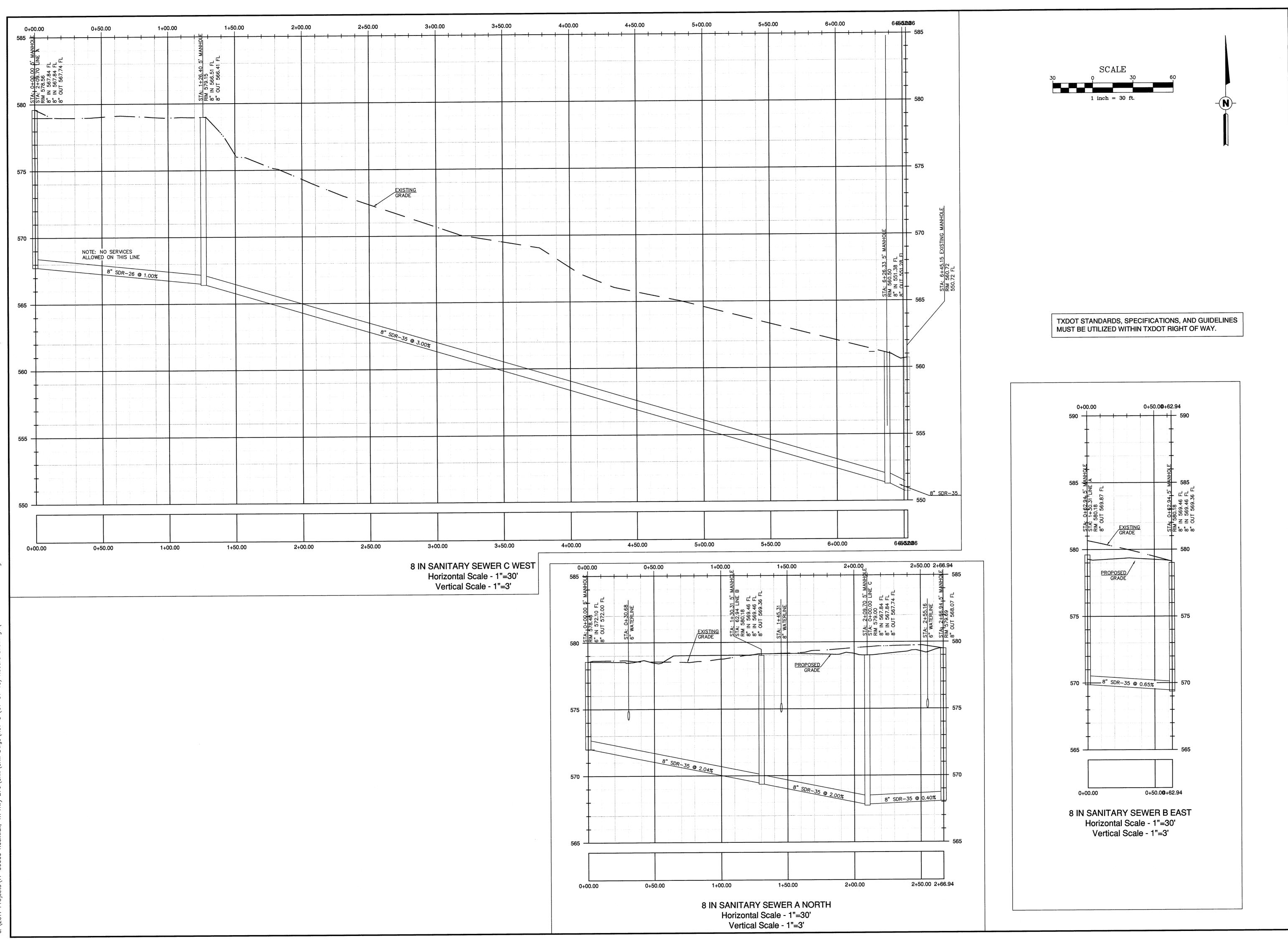


TEXAS COA #F-8576

> UTILITY **PLAN**

AS-BUILT

SHEET: C4.0



ARCHITECTS ENGINEERS INTERIORS

HARRISON FRENCH

& ASSOCIATES, LTD

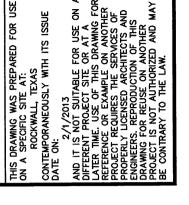
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JOHN KING BLVD & HWY 276 ROCKWALL, TEXAS

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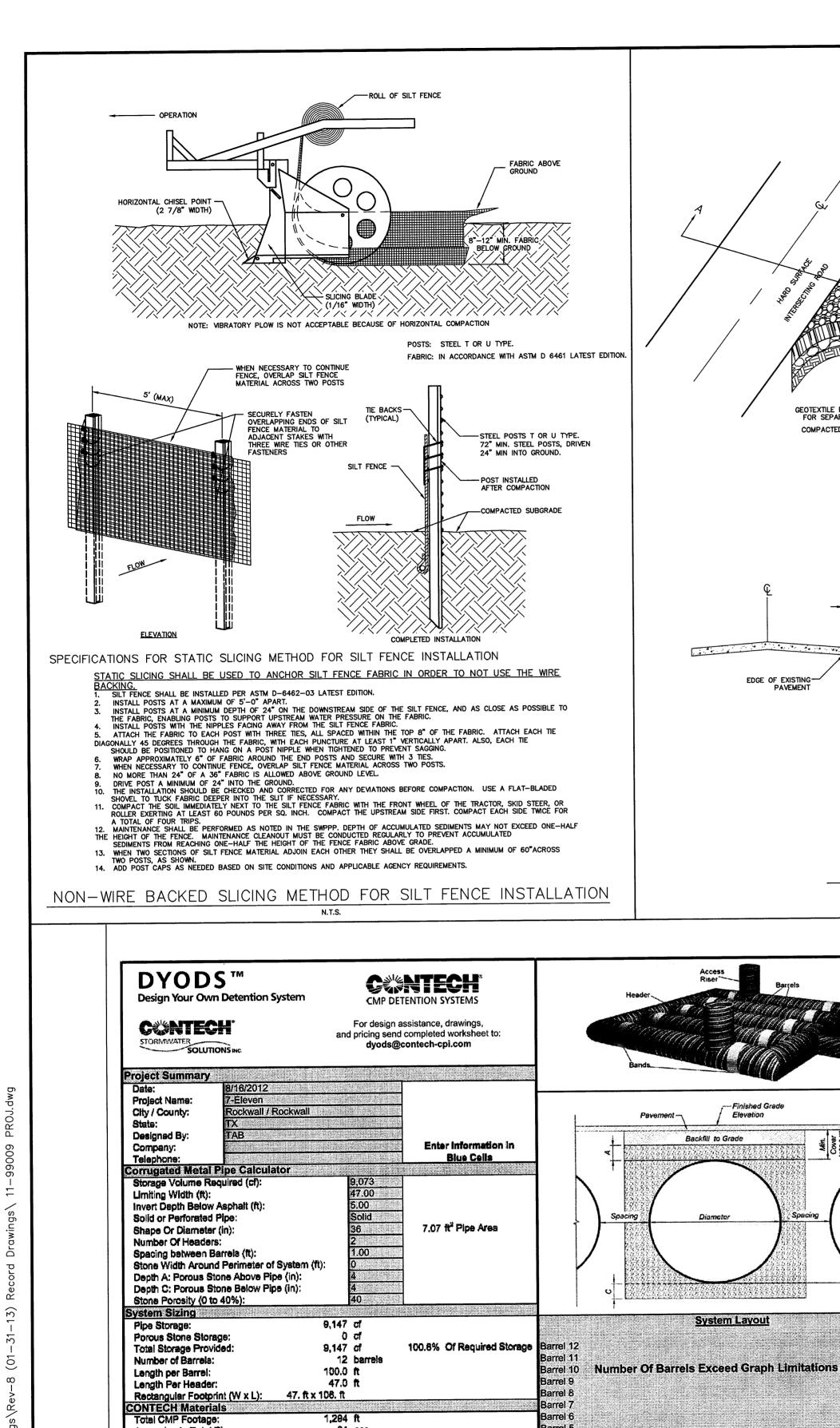
TEXAS COA

FEXAS COA #F-8576

SANITARY SEWER PROFILES

AS-BUILT

SHEET: **C4.1**



64 pcs

923 cy

**Construction quantities are approximate and should be verified upon final design

74 bands

7 trucks

0 cy stone

584 cy fill

Approximate Total Pieces:

Approximate Truckloads:

Total Excavation

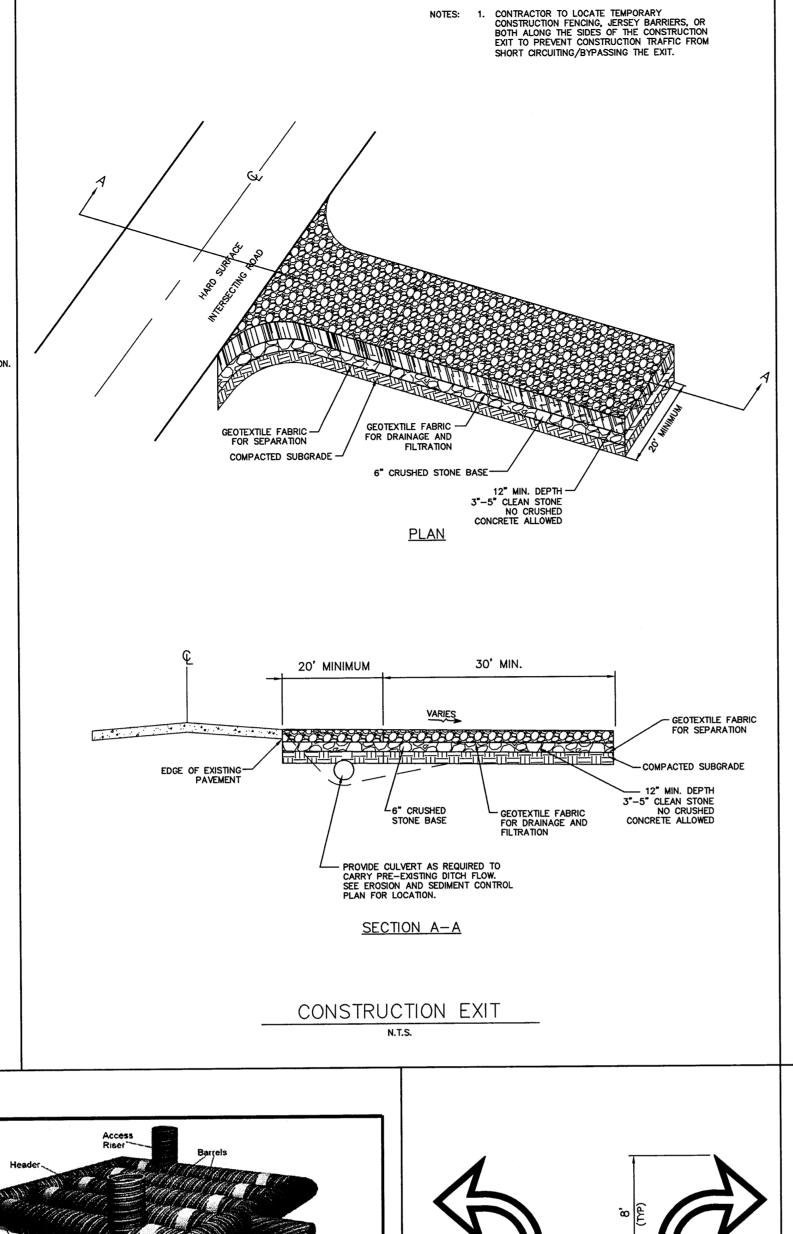
Approximate Coupling Bands:

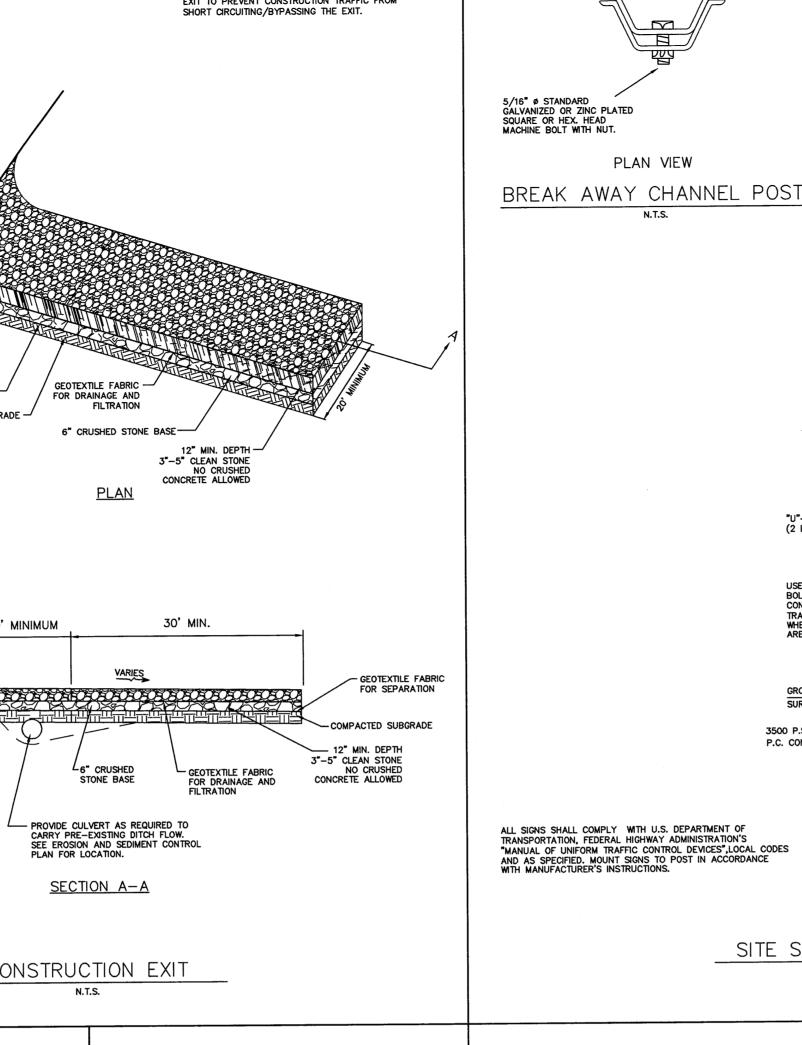
onstruction Quantities**

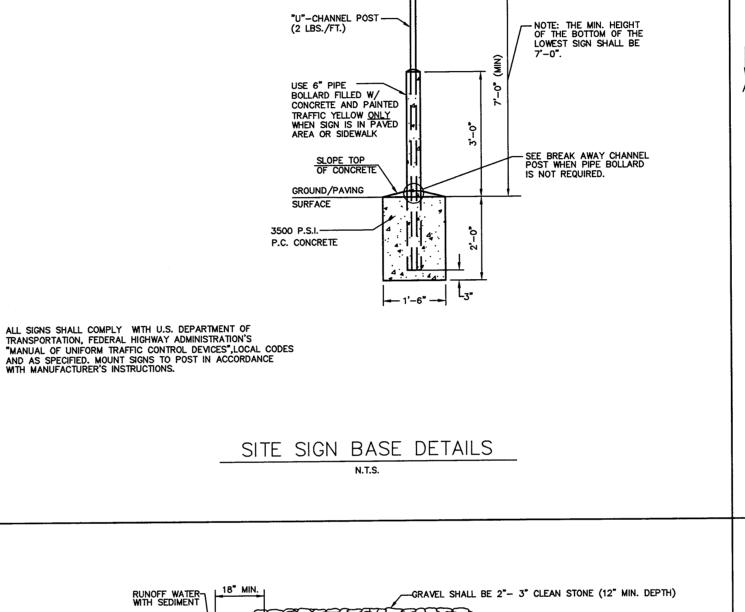
Porous Stone Backfill For Storage:

Backfill to Grade Excluding Stone:

© 2007 CONTECH Stormwater Solutions



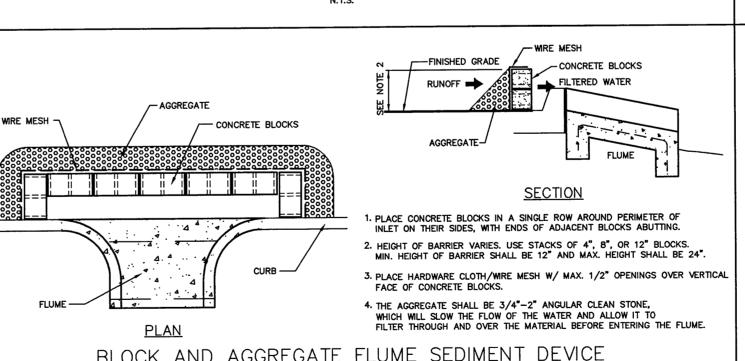


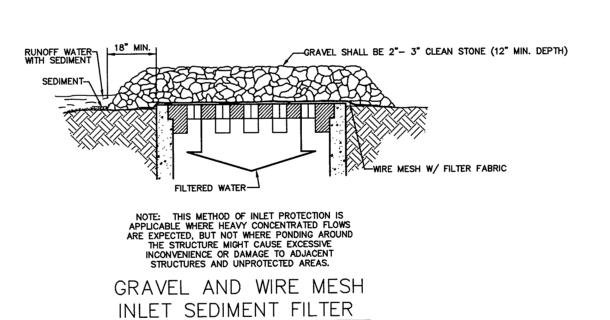


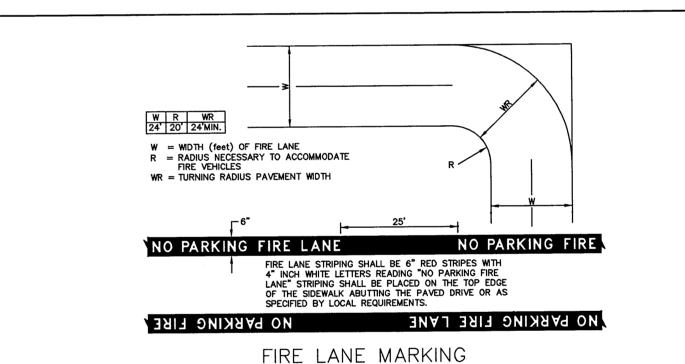
VAN

PARTIAL ELEVATION

SIGNAGE OTHER THAN ACCESSIBLE (PED XING, STOP, ETC.)







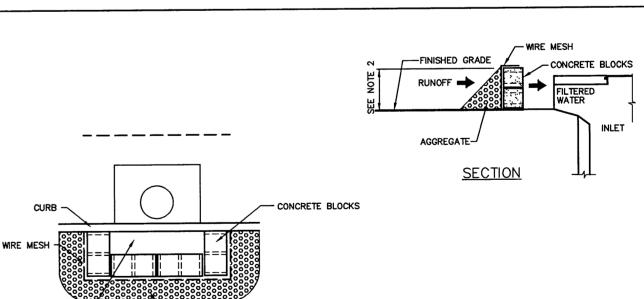
- 4" AGGREGATE BASE COURSE COMPACTED TO

SECTION A-A

CONCRETE SIDEWALK

N.T.S.

90% STD. PROCTOR (TYP)



CURB INLET

<u>PLAN</u>

1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING. HEIGHT OF BARRIER VARIES. USE STACKS OF 4", 8", OR 12" BLOCKS. MIN. HEIGHT OF BARRIER SHALL BE 12" AND MAX. HEIGHT SHALL BE 24". 3. PLACE HARDWARE CLOTH/WIRE MESH W/ MAX. 1/2" OPENINGS OVER VERTICAL FACE OF CONCRETE BLOCKS.

4. THE AGGREGATE SHALL BE 3/4"-2" ANGULAR CLEAN STONE, WHICH WILL SLOW THE FLOW OF THE WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET.

BLOCK AND AGGREGATE INLET SEDIMENT DEVICE

ENGINEER INTERIOR HARRISON FRENC

r 4" TRAFFIC YELLOW

ACCESSIBLE SIGN SEE -SITE SIGN BASE DETAIL

TRAFFIC YELLOW -ACCESSIBLE SYMBOL AND LETTERING

1/2" RADIUS TOOLED JOINT OR 1" DEEP SAWED JOINT (TYP.)

PLAN VIEW

1/4" THICKNESS PREMOLDED EXPANSION JOINT FILLER SPACED • 35' O.C. MAX.

WHERE REQUIRED REINFORCEMENT WILL BE No. 3 BARS 24" O.C. EACH WAY MAX. SPACING, OR

6 x 6 - W1.4 X W1.4 WWF

PARKING LOT STRIPING

ACCESSIBLE PARKING SYMBOL

SEE SITE PLAN FOR COMPLETE STRIPING LAYOUT.

2. THIS IS FOR REFERENCE AND DIMENSION CONTROL ONLY.

ALL DIMENSIONS ARE TO CENTERLINE OF STRIPE UNLESS OTHERWISE NOTED.

4. ALL COLORS AS SHOWN OR BY LOCAL CODES.

LOCATED AT EDGE OF PARKING SPACE UNLESS ACCOMPANIED BY VAN LETTERING

STRIPING • 2'-0" O.C.

YELLOW STRIPING (TYP.)

DIMENSION CHART

 $A = 90^{\circ}$

ВС

9'

20'

NOTES: 1. PROVIDE 1/2" EXPANSION

2. CONCRETE SHALL BE 3,500 PSI

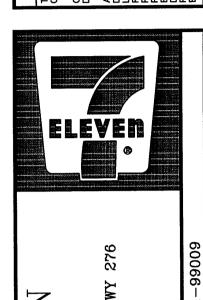
SEE SITE PLAN

SLOPE 1/4" /FT. -MAX.

SECTION B-B

JOINT BETWEEN SIDEWALK AND ALL FIXED OBJECTS

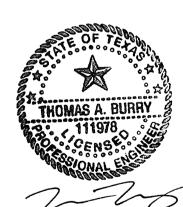
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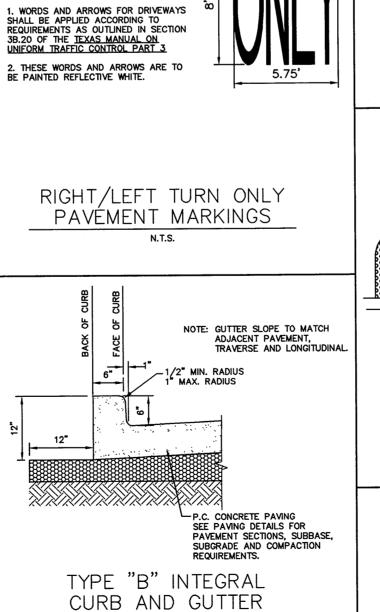


TEXAS COA #F-8576

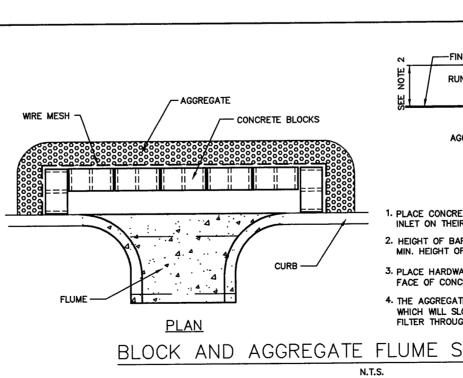
DETAIL SHEET

AS-BUILT

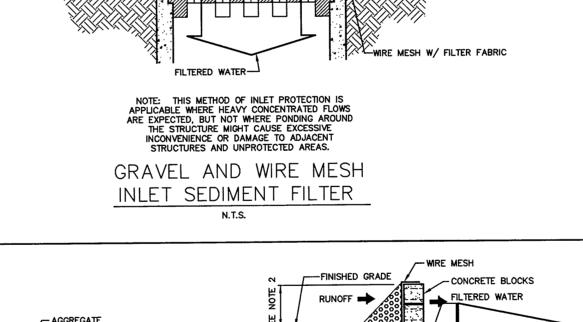
SHEET:

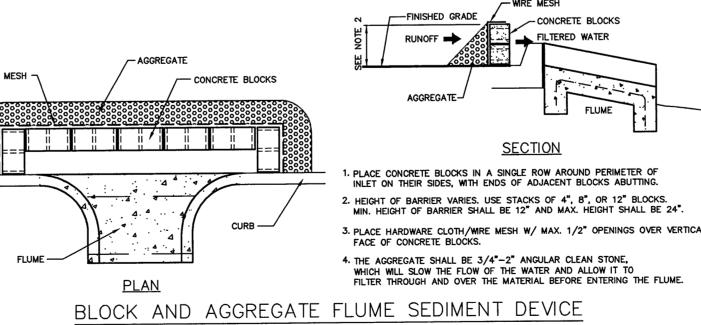


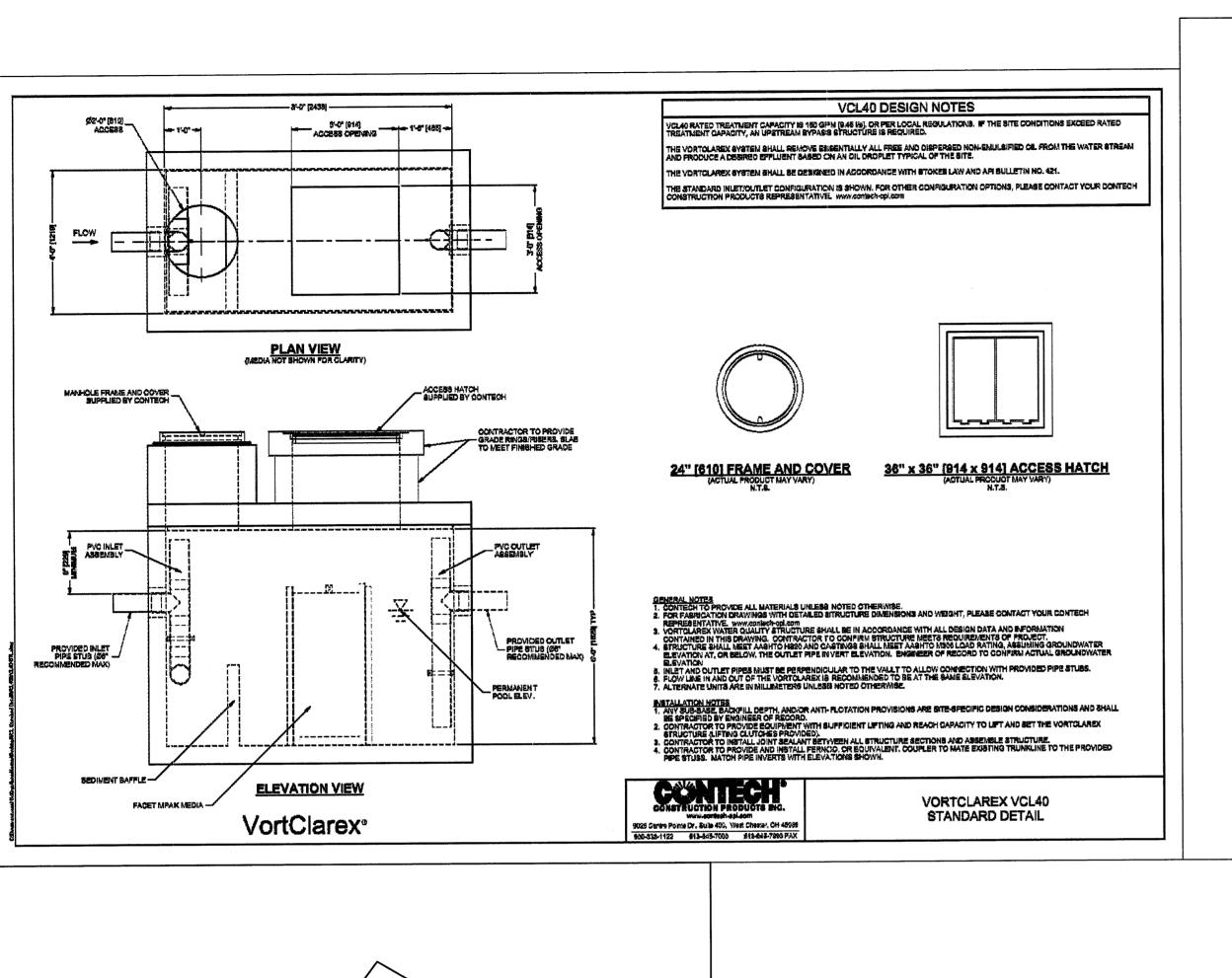
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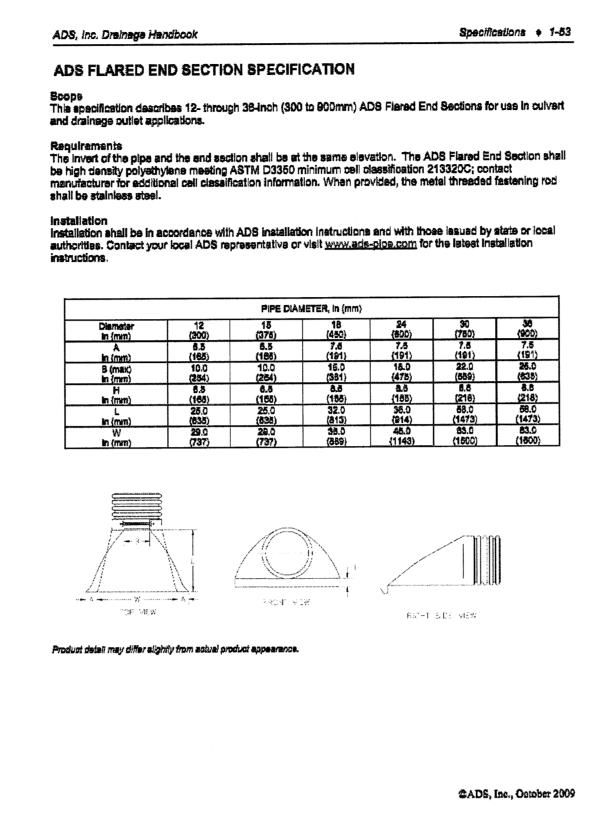


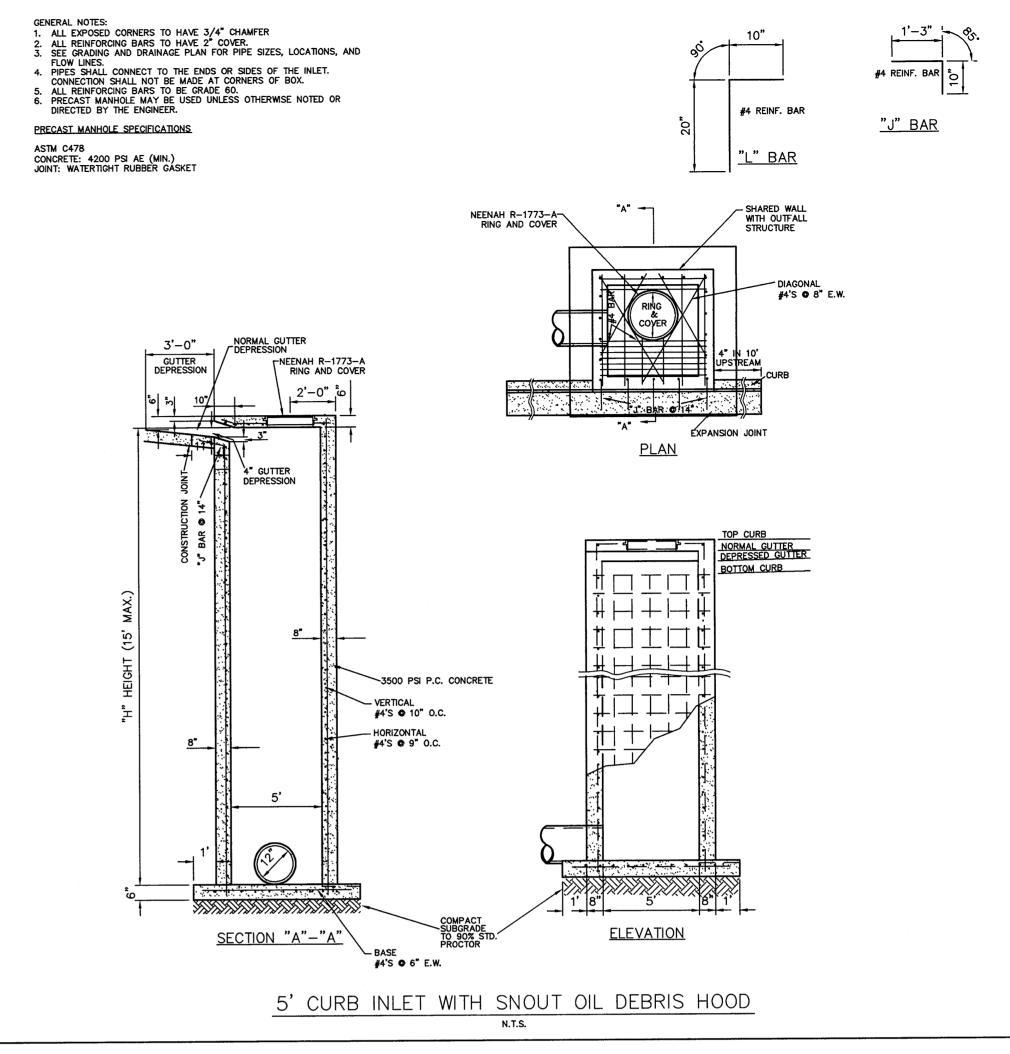
PLAN VIEW

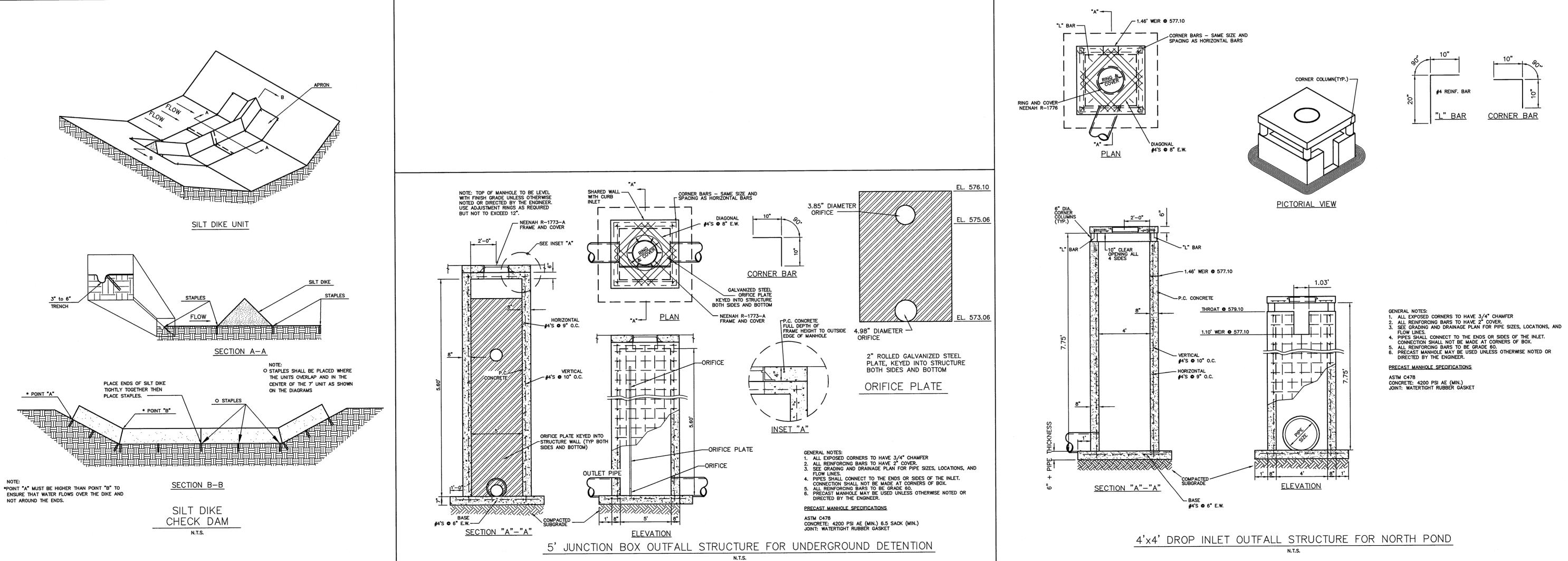














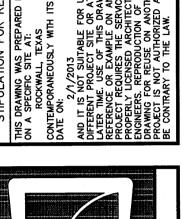
ILCATION FOR REUSE

ING WAS PREPARED FOR USE
SHIC SITE AT:
SWALL, TEXAS
ANEOUSLY WITH ITS ISSUE

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ANOT SUITABLE FOR USE ON A
PROJECT SITE OR AT A
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EQUIRES THE SERVICES OF
LICENSED ARCHITECTS AND
REPRODUCTION OF THIS
OR REUSE ON ANOTHER
S NOT AUTHORIZED AND MAY
ARY TO THE LAW.

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HVEN BLVD & HWY 276

ISSUE BLOCK

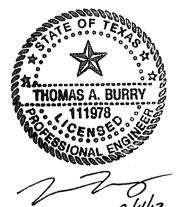
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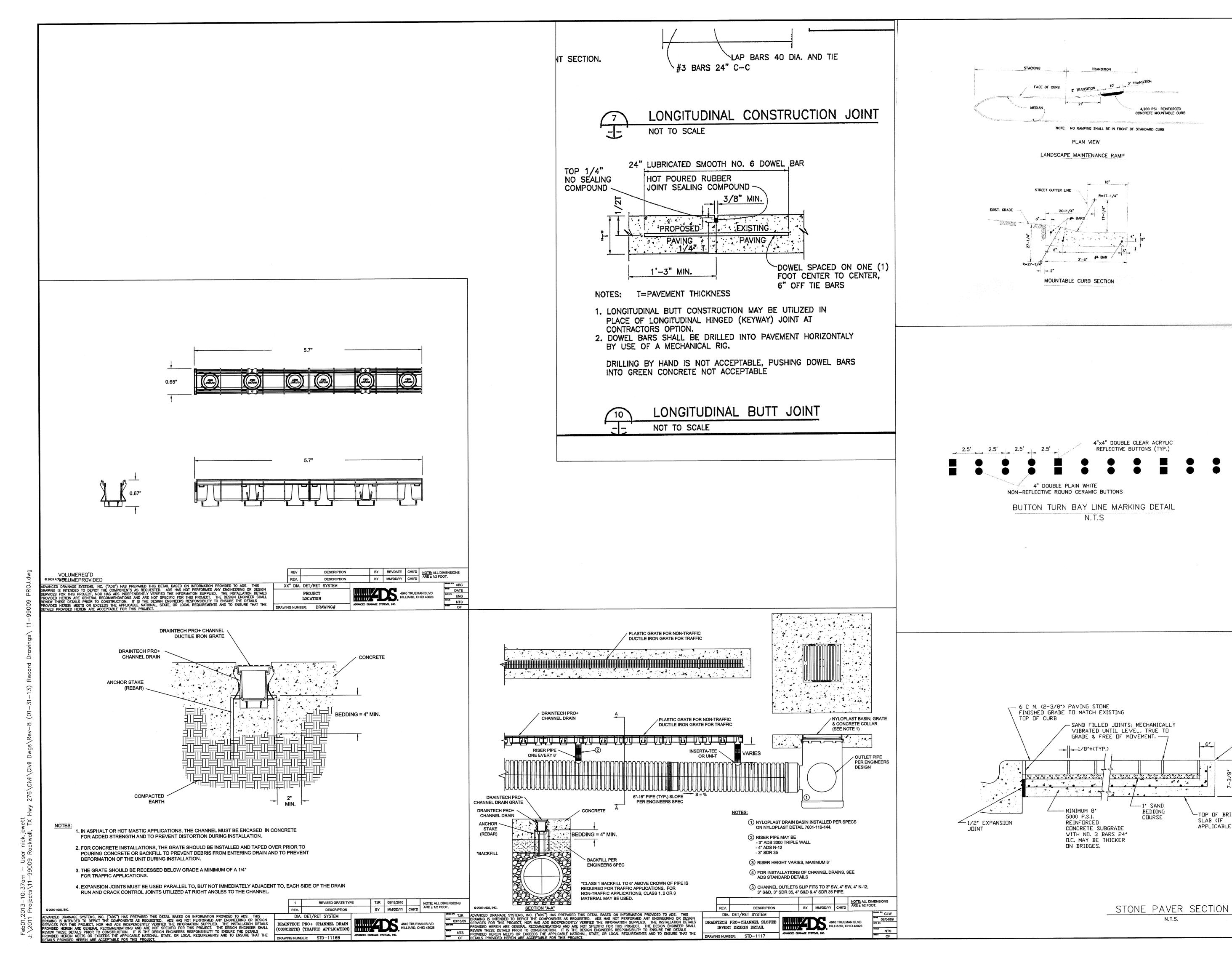


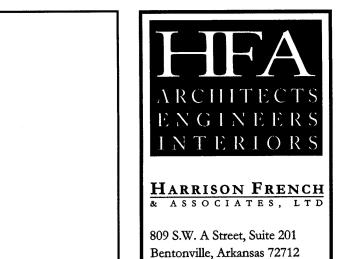
TEXAS COA #F-8576

DETAIL SHEET

AS-BUILT

C7.1



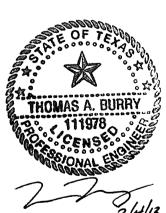


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6" BORDER CURB @ END

TOP OF BRIDGE

APPLICABLE)

SLAB (IF

-1' SAND

BEDDING

N.T.S.

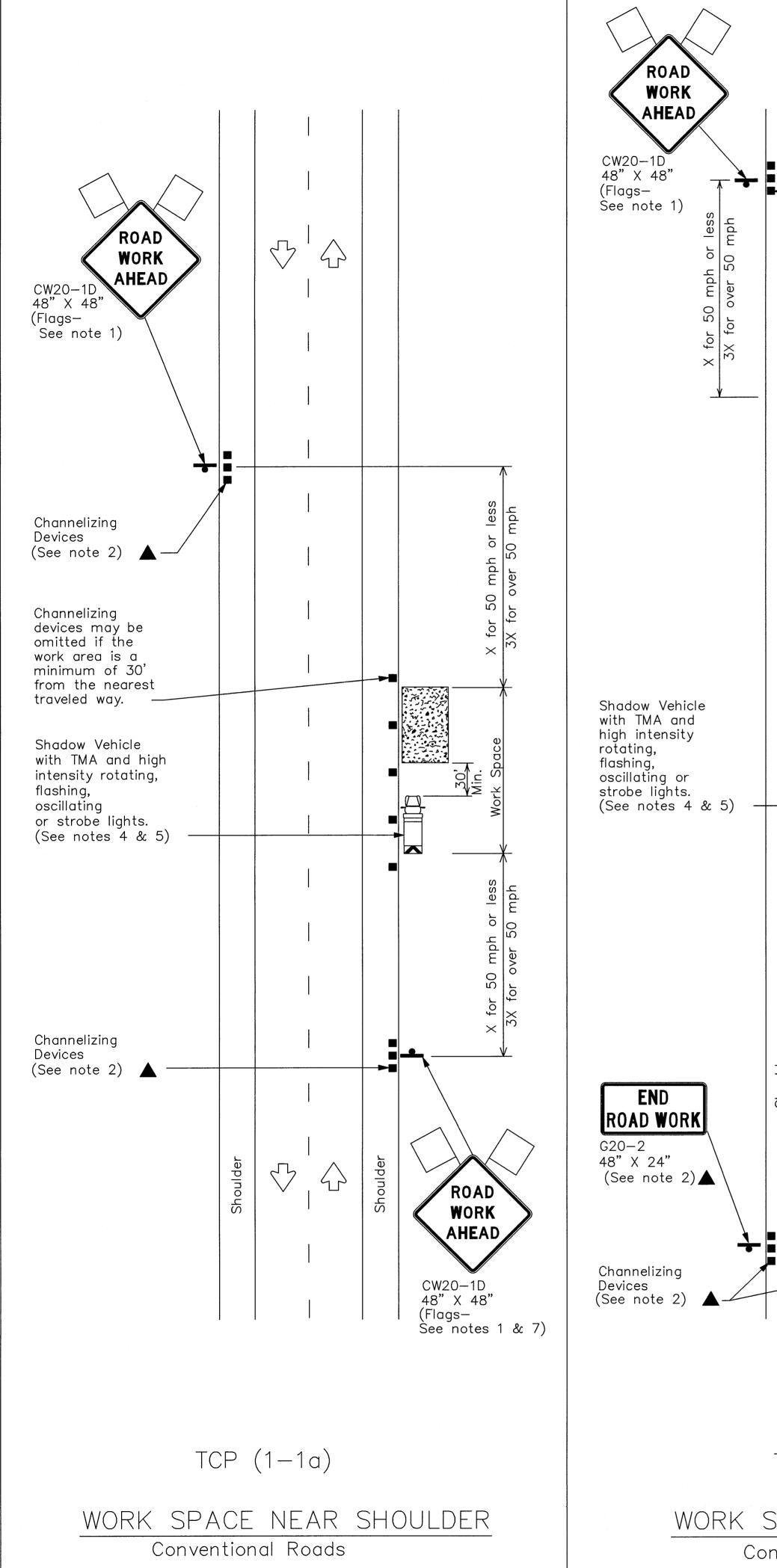
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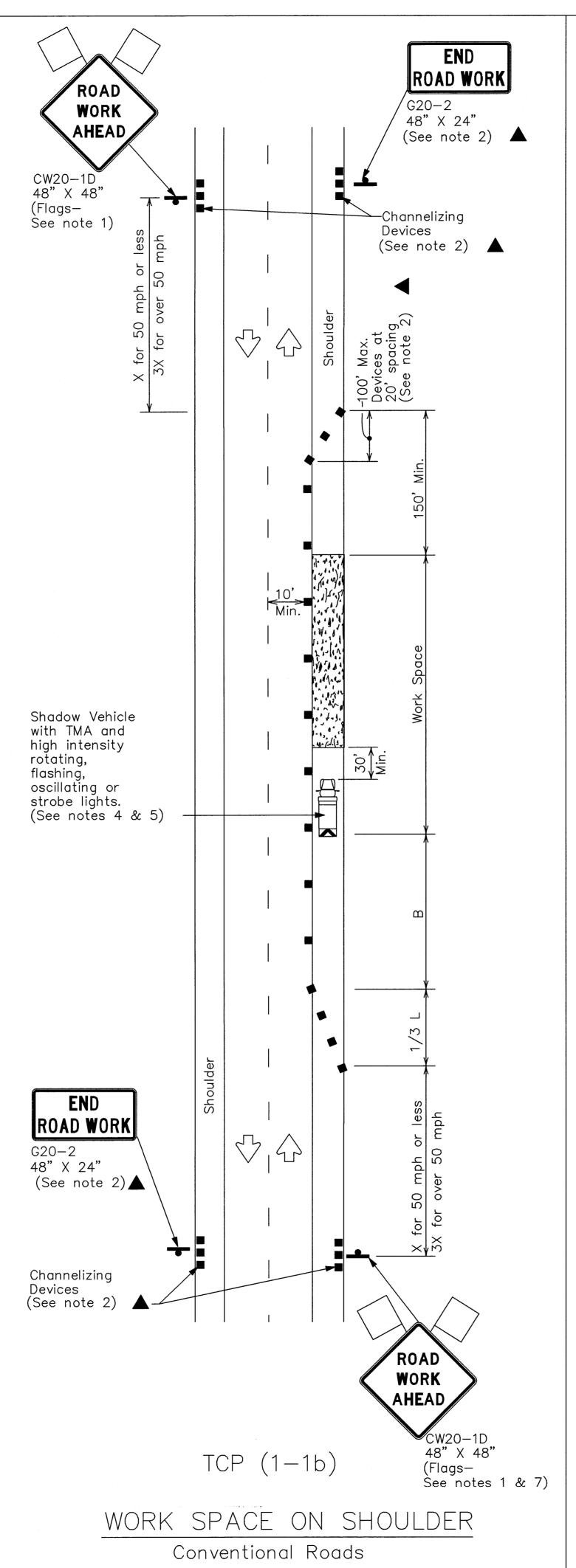
DETAIL

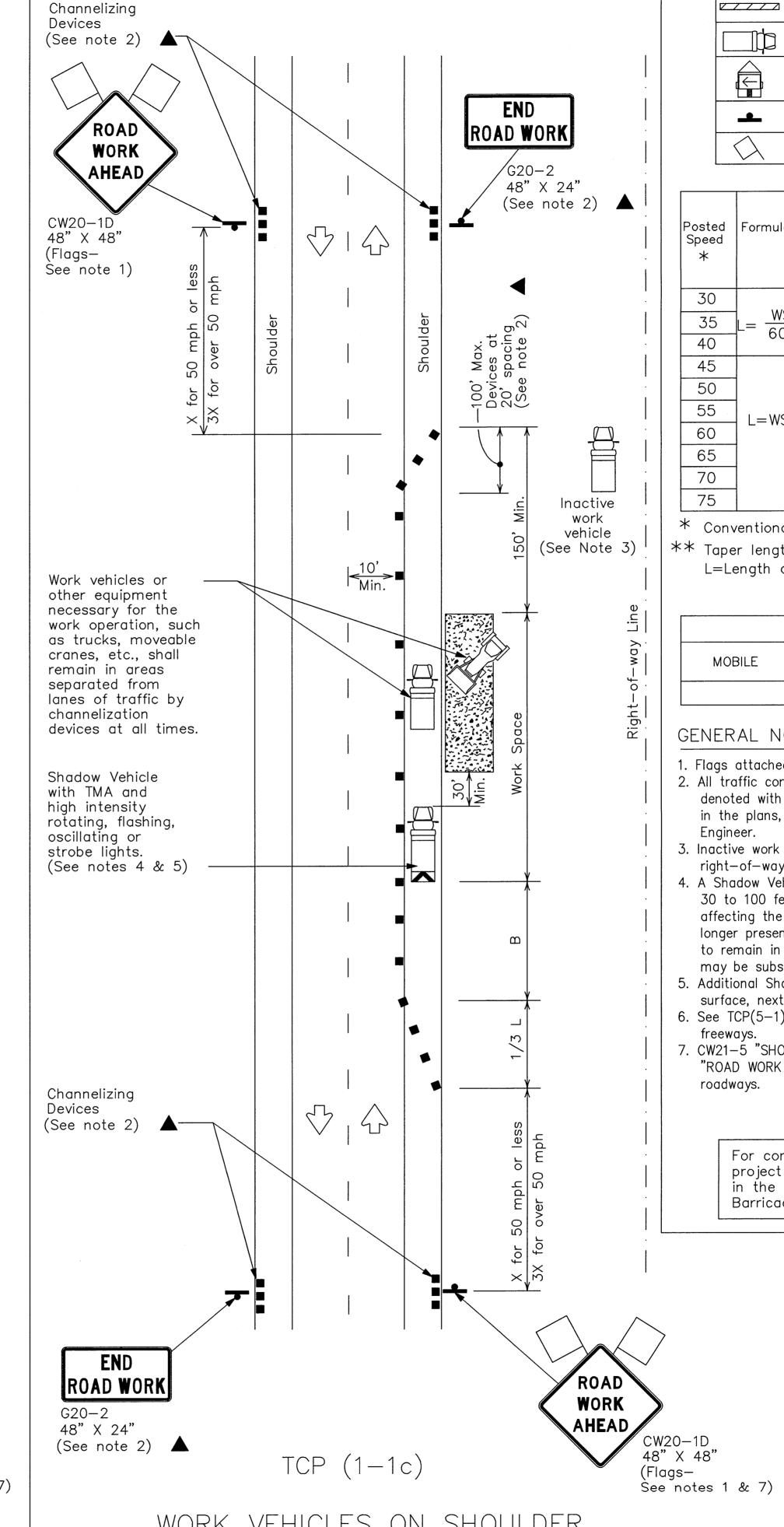
AS-BUIL7

SHEET:









LEGEND					
	Type 3 Barricade		Channelizing Devices		
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)		
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)		
_	Sign	\frac{1}{2}	Traffic Flow		
\Diamond	Flag	Lo	Flagger		

Posted Speed	Speed		Minimum Desirable Taper Lengths ** Suggested Maximu Spacing of Channelizing Devices		Channelizing Devices		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B" [']
30	2	150'	165'	180'	30'	60'	120'	90'
35	$L = \frac{WS^2}{60}$	205'	225'	245'	35'	70'	160'	120'
40	^{L—} 60	265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55	L=WS	550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

** Taper lengths have been rounded off. L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

		TYPICAL US	AGE	
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	1	1		

GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.

- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the
- 3. Inactive work vehicles or other equipment should be parked near the right—of—way line and not parked on the paved shoulder.
- 4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces. 6. See TCP(5-1) for shoulder work on divided highways, expressways and
- 7. CW21—5 "SHOULDER WORK" signs may be used in place of CW20—1D "ROAD WORK AHEAD" signs for shoulder work on conventional

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

Traffic Operations Division

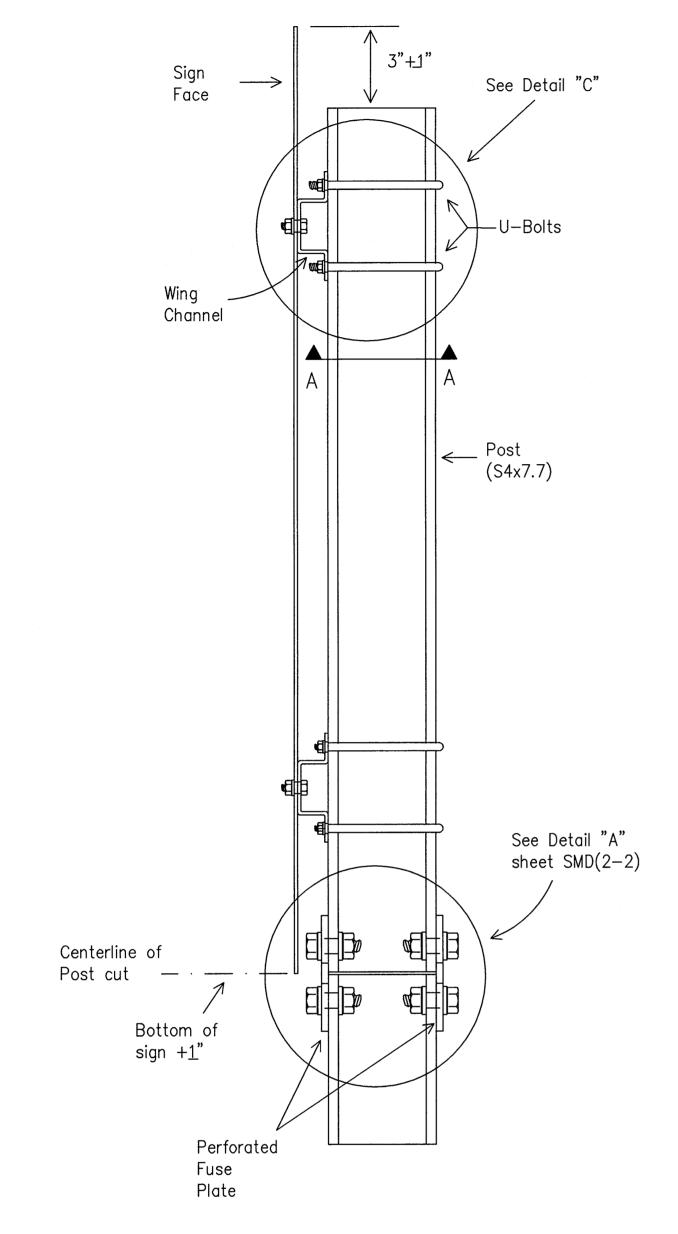
TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TCP(1-1)-12

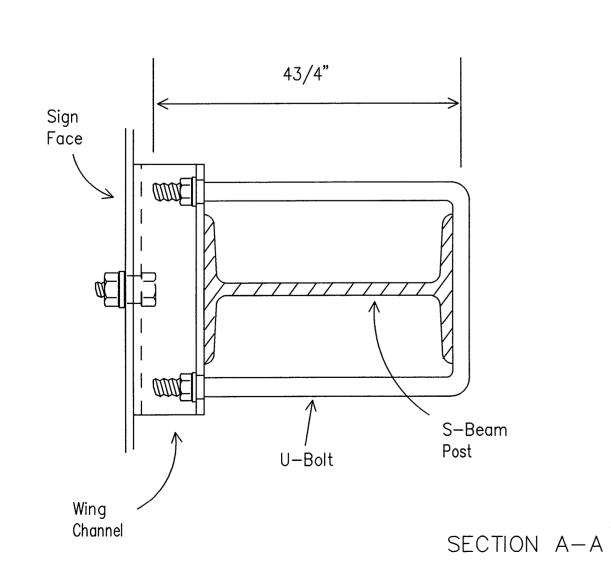
©TxD0T December 1985 2-94 2-12 8-95 1-97 4-98 DIST SHEET NO. COUNTY

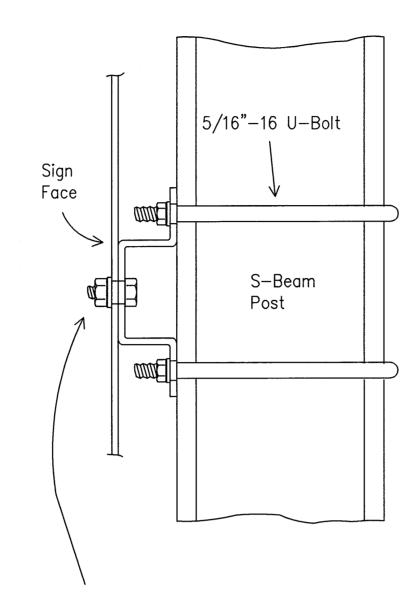
WORK VEHICLES ON SHOULDER Conventional Roads

WING CHANNEL CLAMP DETAIL FOR TYPE G MOUNT



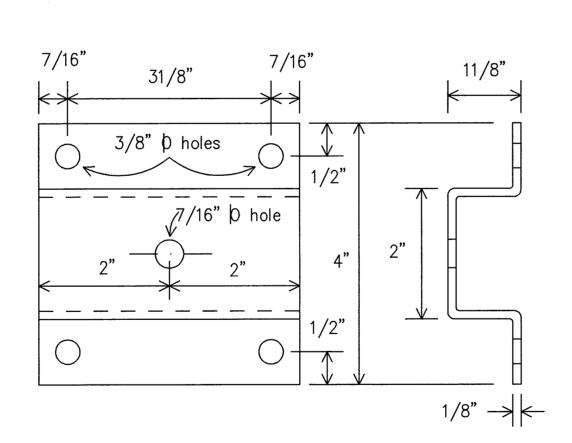
SIDE VIEW





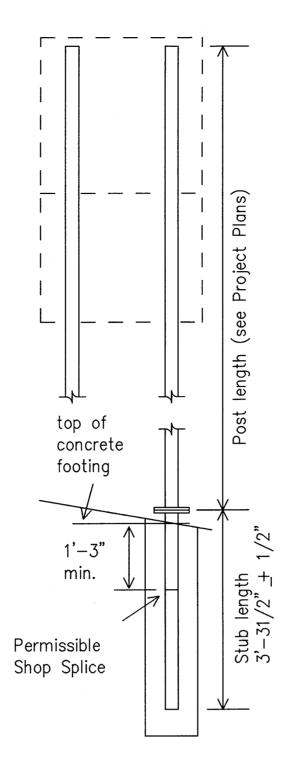
Galvanized steel or aluminum self-locking hex. head nut. 3/8 " - 16 x 3/4 " hex. head bolt for sheet metal. 3/8 " - 16 x 1 1/4 " hex. head bolt for plywood. 3/8 " galvanized medium washer.

DETAIL "C"

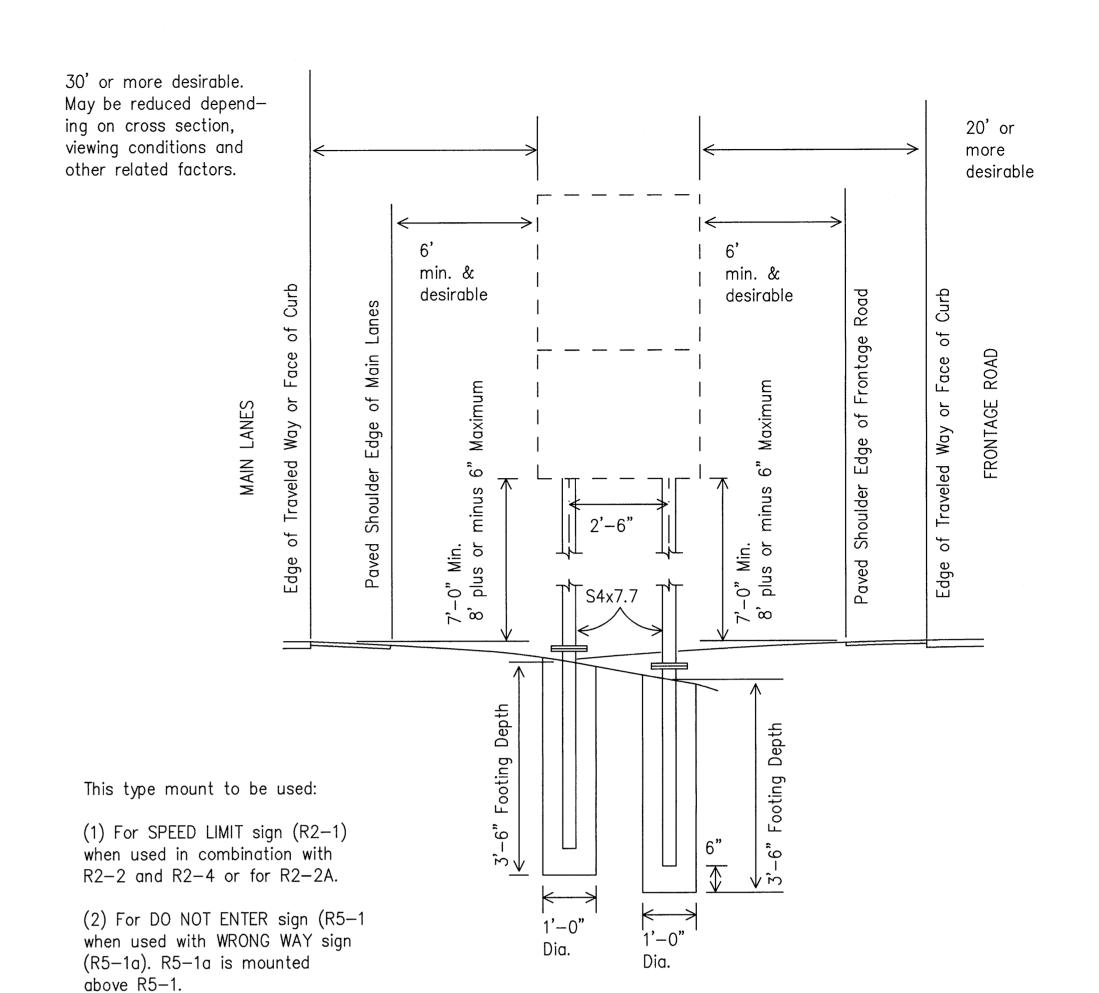


WING CHANNEL

Wing channel, 4" width x 11/8" depth x 1/8" thickness, shall be aluminum (ASTM B221 6061—T6 or B308 6061—T6), galvanized steel (ASTM A36) or stainless steel (ASTM A167 type 304, No. 2B finish).



The weight of one S4x7.7 post is equal to 112.2 lbs. plus 7.7 lbs./ft x (post length in feet minus 10 ft). The weight of 112.2 lbs. includes 10 feet of post length, post foundation stub, related connection plates, friction fuse plate, and all high strength bolts, nuts and washers.



DEPARTMENTAL MATERIAL SPECIFICATIONS SIGN HARDWARE

DMS-7120

GENERAL NOTES:

- 1. Design conforms with AASHTO Specifications for the design and construction of structural supports for highway signs.
- 2. Materials and fabrication shall conform to the requirements of the Department material specifications.
- 3. Structural steel shall be "Low-Alloy Steel" for non-bridge structures per Item 442, "Metal For Structures."
- 4. Parts shall be saw cut either before galvanizing and the galvanized cut cleaned of zinc build—up, or saw cut after galvanizing and the cut surface repaired per Item 445, "Galvanizing." (Cut surface will not be treated until plate is installed and all bolts fully tightened.)



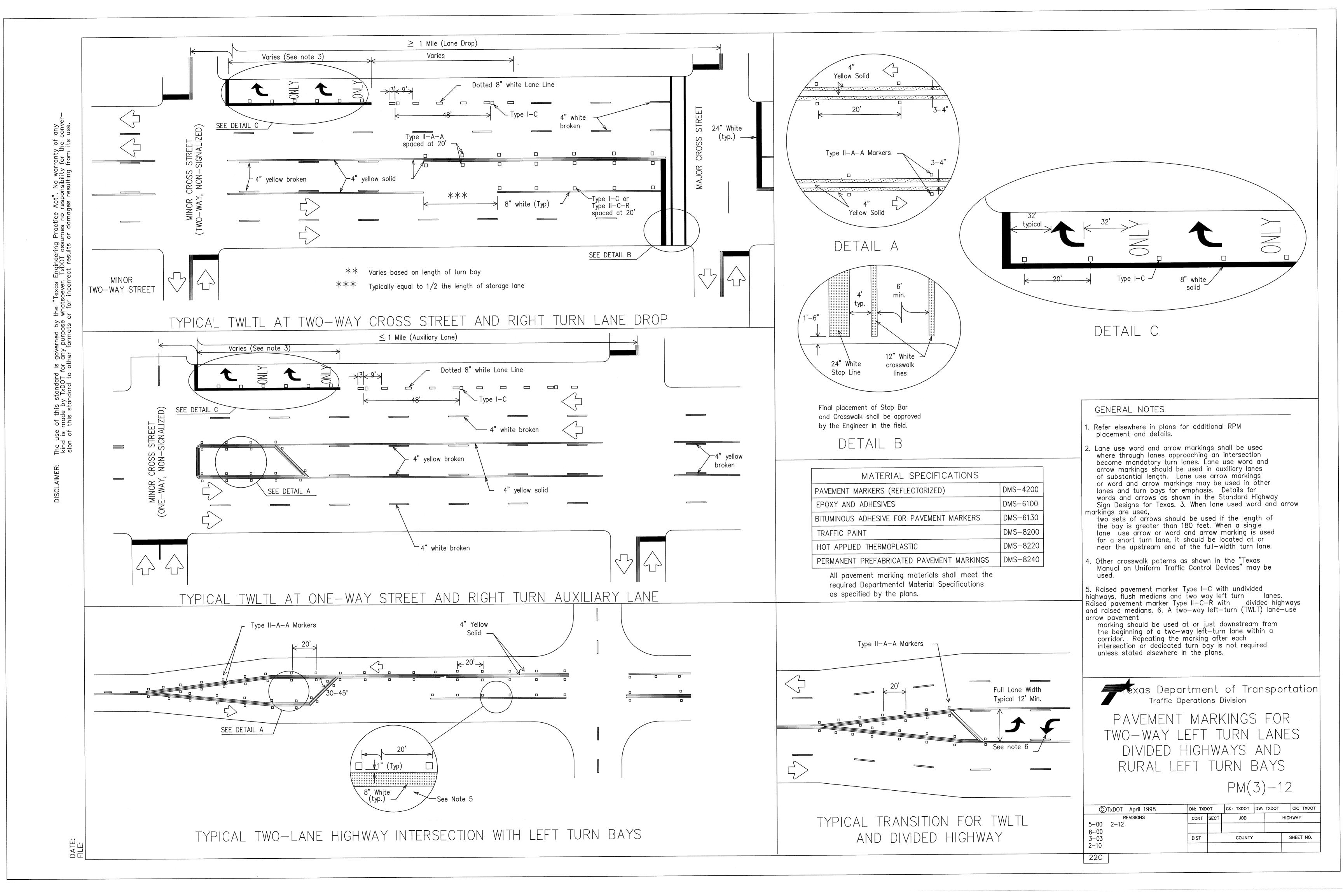
SIGN MOUNTING DETAILS,

TYPE G SUPPORT

SMD(TY G)-08

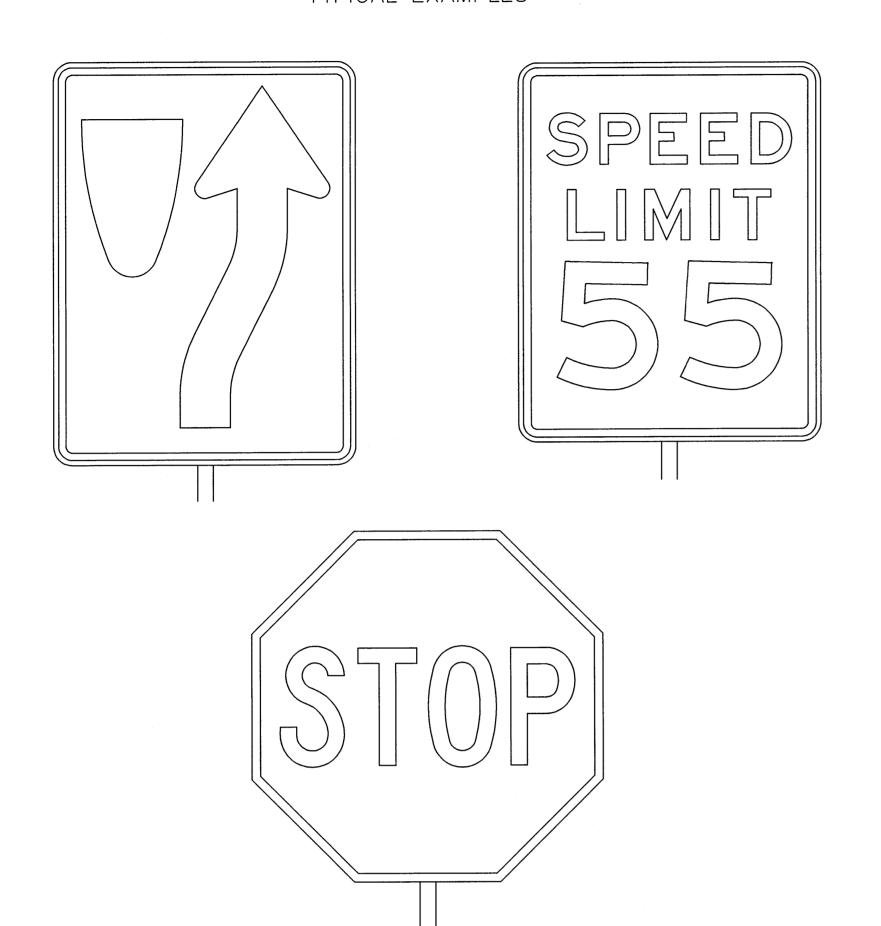
©TxDOT August 1995	DN: TXDOT	•	CK: TXDOT	DW:	TXDOT	CK: TXDOT
REVISIONS 1-97 9-08	CONT SE	ECT	JOB		Н	IGHWAY
	DIST		COUNTY	•		SHEET NO.
28						

DATE:



REQUIREMENTS FOR REGULATORY SIGNS

TYPICAL EXAMPLES



DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS

DMS-7110

DMS-8300

Square Ft.	Min. Thickness	
Less than 7.5	0.080	
7.5 to 15	0.100	
Greater than 15	0.125	

SIGN FACE MATERIALS

COLOR SIGN FACE MATERIAL

BACKGROUND ALL TYPE C SHEETING
LEGEND & BORDERS WHITE TYPE C SHEETING
LEGEND & BORDERS BLACK ACRYLIC NON-REFLECTIVE FILM

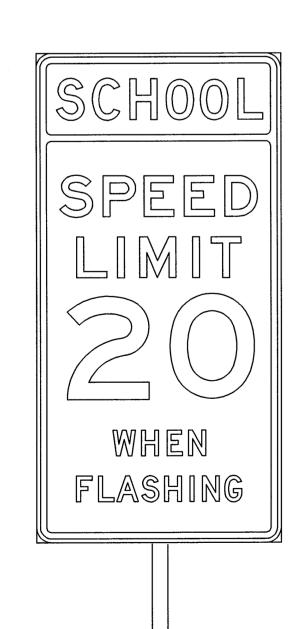
GENERAL NOTES:

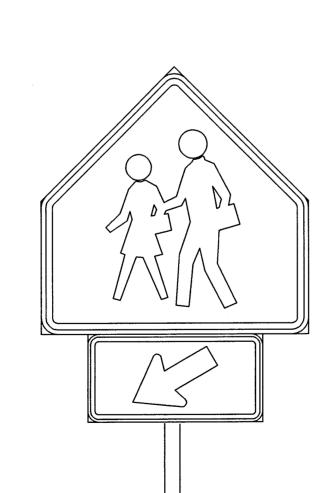
USAGE

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- 2. Regulatory sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
- 3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- 4. Black legend and borders shall be applied by screening process or cut—out acrylic non—reflective black film to white background sheeting, or combination thereof.
- 5. White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut—out white sheeting to colored background sheeting, or combination thereof.
- 6. Colored legend shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
- 7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS—7110.
- 8. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

REQUIREMENTS FOR SCHOOL SIGNS

TYPICAL EXAMPLES





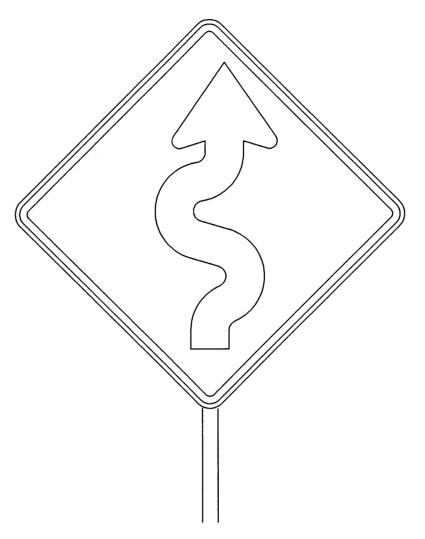
DEPARTMENTAL MATERIAL SPECIFICATIONS DMS-7110 ALUMINUM SIGN BLANKS Min. Thickness Square Ft. Less than 7.5 7.5 to 15 Greater than 15 SIGN FACE MATERIALS DMS-8300 COLOR SIGN FACE MATERIAL USAGE TYPE C SHEETING BACKGROUND FLOR.YEL.GRN. TYPE E SHEETING BACKGROUND ACRYLIC NON-REFLECTIVE FILM LEGEND & BORDERS BLACK

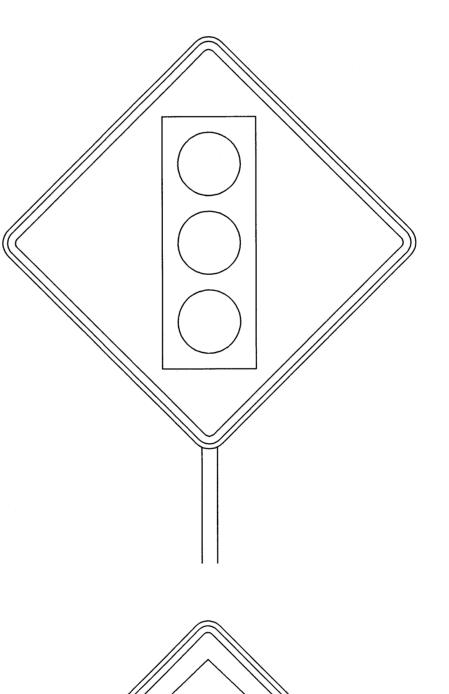
GENERAL NOTES:

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- 2. School sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
- 3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- 4. Black legend and borders shall be applied by screening process or cut—out acrylic non—reflective black film to background sheeting, or combination thereof.
- 5. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110.
- 6. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

REQUIREMENTS FOR WARNING SIGNS

TYPICAL EXAMPLES





DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS

DMS-7110

DMS-8300

Square Ft. Min. Thickness
Less than 7.5 0.080
7.5 to 15 0.100
Greater than 15 0.125

SIGN FACE MATERIALS

USAGE COLOR SIGN FACE MATERIAL

BACKGROUND YELLOW TYPE E SHEETING
LEGEND & BORDERS BLACK ACRYLIC NON-REFLECTIVE FILM
LEGEND & SYMBOLS ALL OTHER TYPE D SHEETING

GENERAL NOTES:

- 1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- 2. Warning sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod, or F).
- 3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
 4. Black legend and borders shall be applied by screening process or cut—out acrylic non—reflective black film to yellow background

sheeting, or combination thereof.

- 5. Colored legend and symbols shall be applied by screening process with transparent colored ink, transparent colored overlay film, or colored sheeting to white sheeting, or combination thereof. The colored legend or symbol is then applied to the yellow background sheeting.6. Sign substrate shall be any material that meets the Departmental
- Material Specification requirements of DMS-7110.

 7. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/publications/traffic.htm



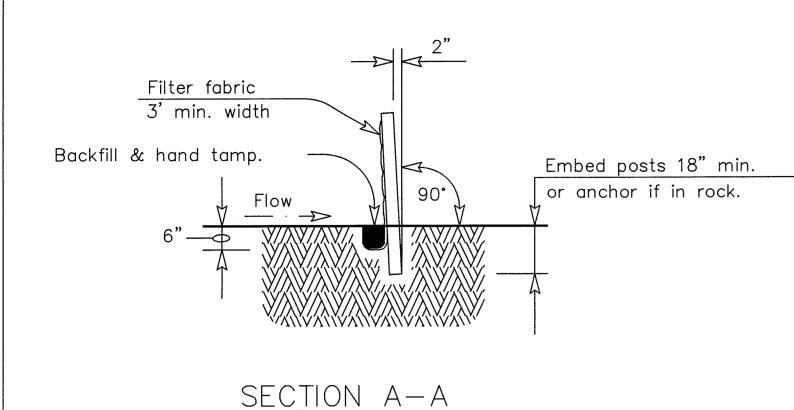
Traffic Operations Division

TYPICAL SIGN REQUIREMENTS

TSR(4) - 08

) A TE:

4



GENERAL NOTES

1. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

PLAN SHEET LEGEND

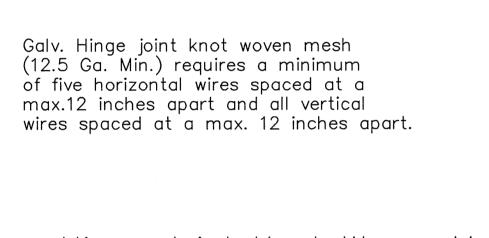
Sediment Control Fence —

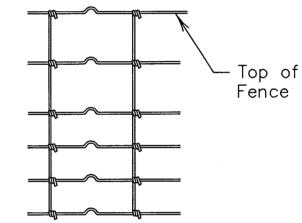


SEDIMENT CONTROL FENCE USAGE GUIDELINES

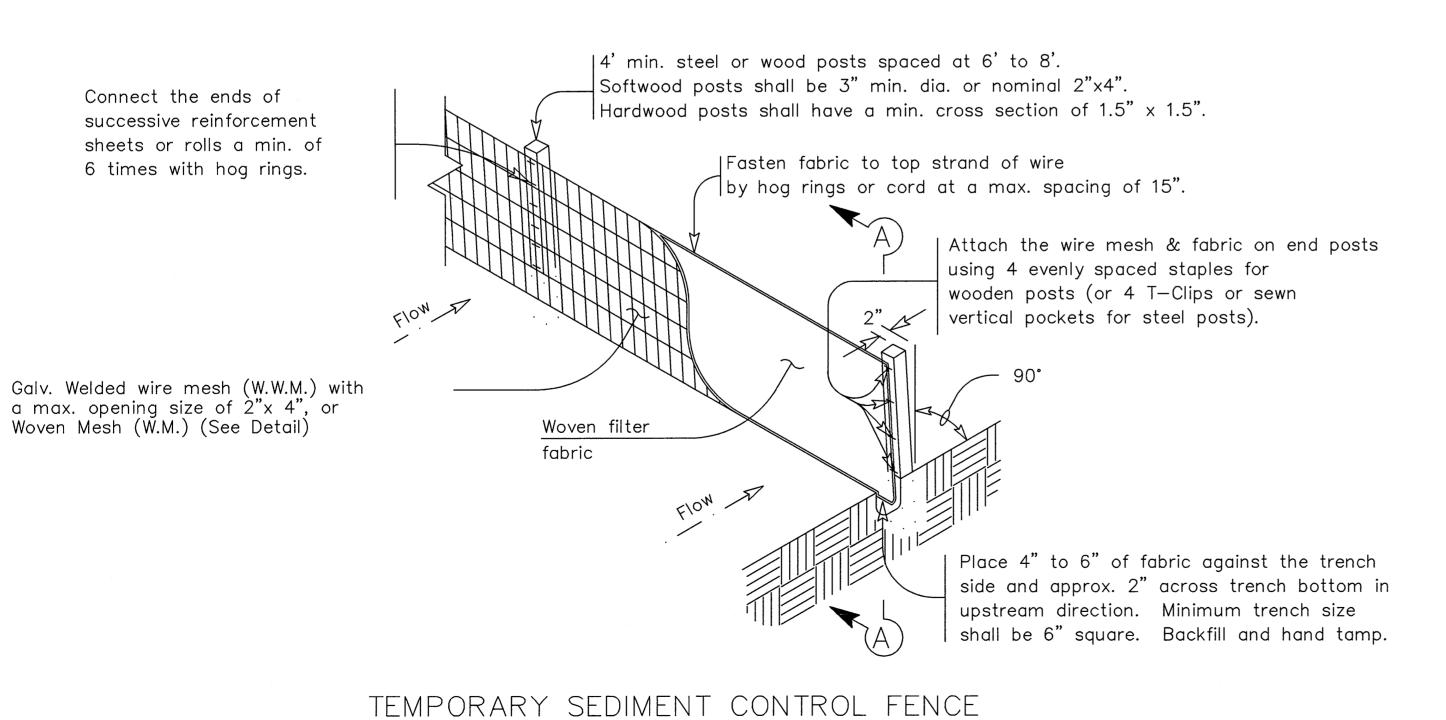
A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

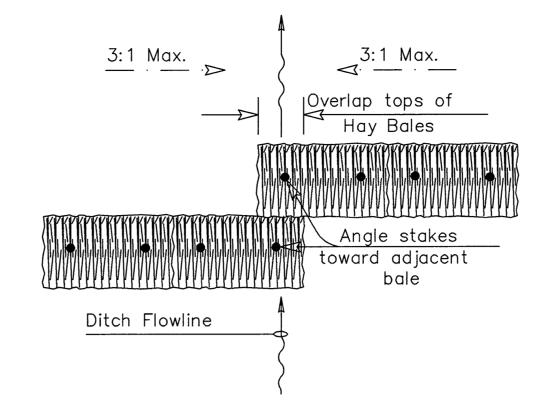
Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.



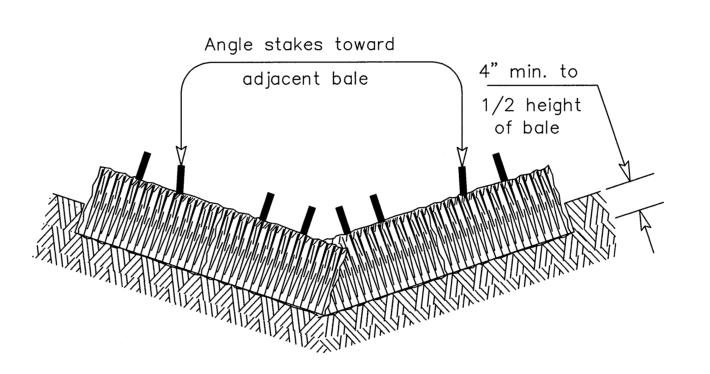


Hinge Joint Knot Woven Mesh (Option)





<u>PLAN VIEW</u>



PROFILE VIEW

PLANS SHEET LEGEND

Baled Hay BH

BALED HAY USAGE GUIDELINES

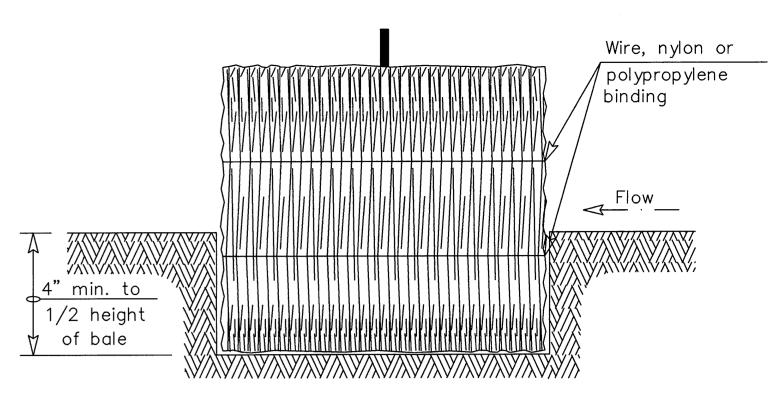
A Baled Hay installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A two year storm frequency may be used to calculate the flow rate to be filtered. The installation should be sized to filter a maximum flow thru rate of 5 GPM/FT² of cross sectional area. Baled hay may be used at the following locations:

- 1. Where the runoff approaching the baled hay flows over disturbed soil for less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.
- 2. Where the installation will be required for less than 3 months.
- 3. Where the contributing drainage area is less than 1/2 acre.

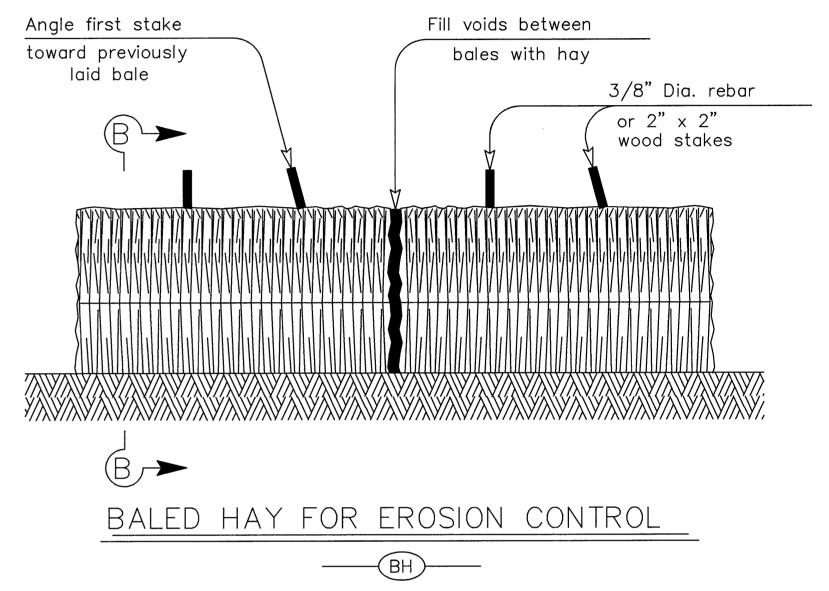
For Baled Hay installations in small ditches, the additional following considerations apply:

- The ditch sideslopes should be graded as flat as possible to maximize the drainage flowrate thru the hay.
- 2. The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity is accelerated.

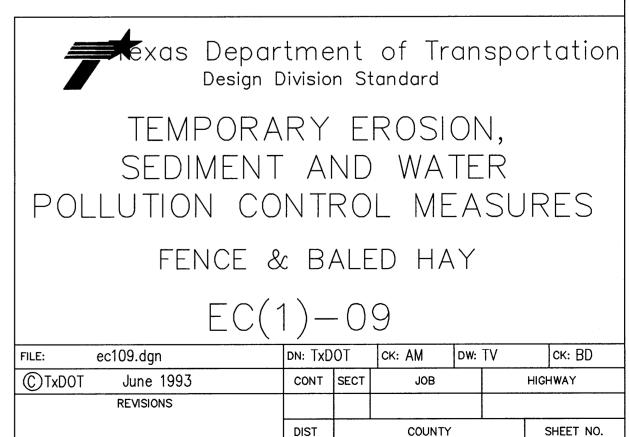


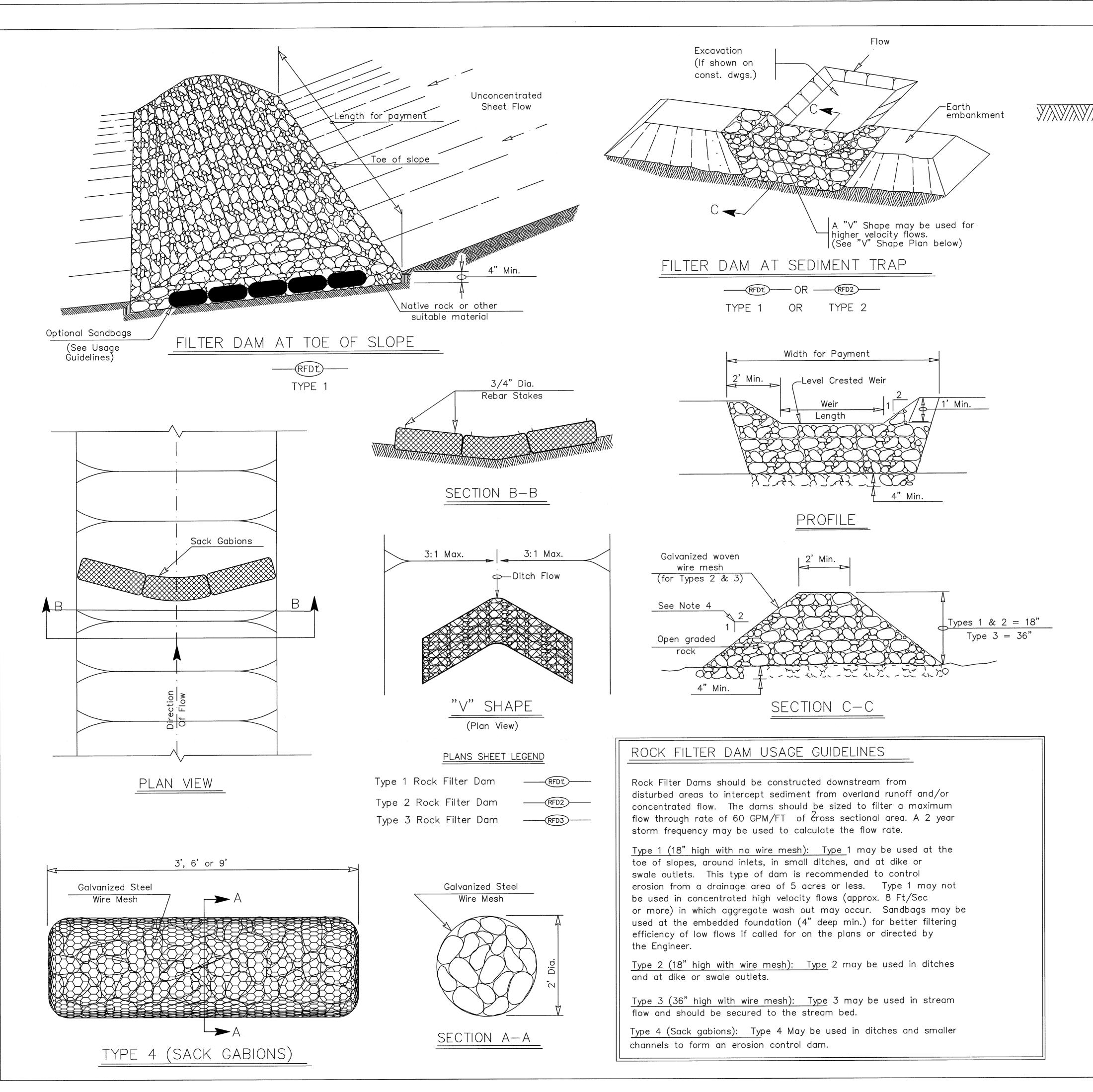
SECTION B-B

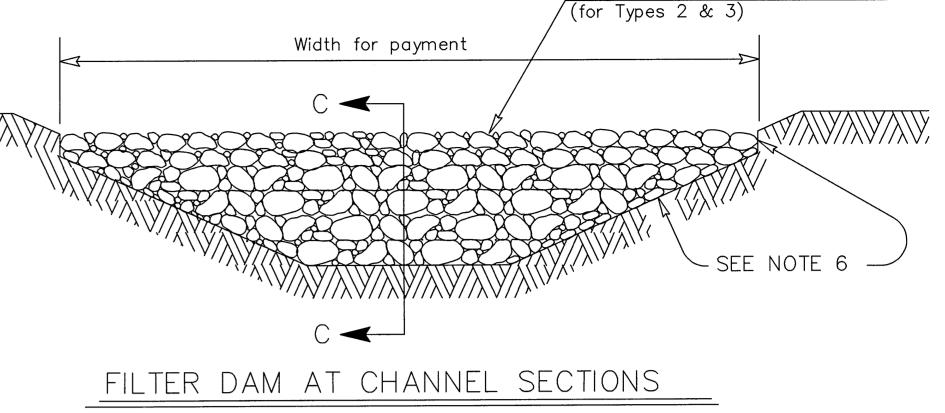


GENERAL NOTES

- 1. Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 Lbs.
- 2. Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetative matter.
- 3. Hay bales shall be embedded in the soil a minimum of 4" and where possible 1/2 the height of the bale.
- 4. Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
- 5. Hay bales shall be securely anchored in place with 3/8" Dia. rebar or 2" x 2" wood stakes, driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.
- 6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.







Galvanized Woven Wire Mesh

GENERAL NOTES

TYPE 1

1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream at drainage structures, and in roadway ditches and channels to collect sediment.

OR TYPE 2

- 2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
- 3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
- 4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
- 5. Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
- 6. Filter dams should be embedded a minimum of 4" into existing ground.
- 7. The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
- 8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. In stream use the mesh should be secured or staked to the stream bed prior to aggregate placement.
- 9. Sack Gabions should be staked down with 3/4" dia. rebar stakes.
- 10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
- 11. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

Design Division Standard

TEMPORARY EROSION,

SEDIMENT AND WATER

ROCK FILTER DAMS

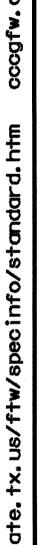
POLLUTION CONTROL MEASURES

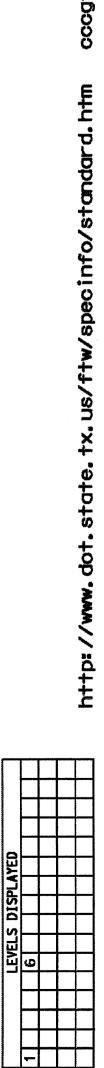
EC(2) - 93

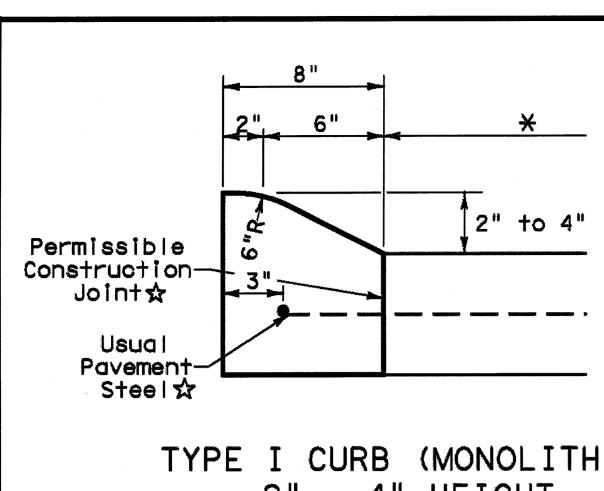
	FILE: ec293.dgn		DN: TxDOT		J 00	w: BD ck:	
©TxD0T	June 1993	CONT	SECT	JOB	HIGHWAY		
	REVISIONS						
		DIST		COUNT	r	SHEET NO	

OATE:

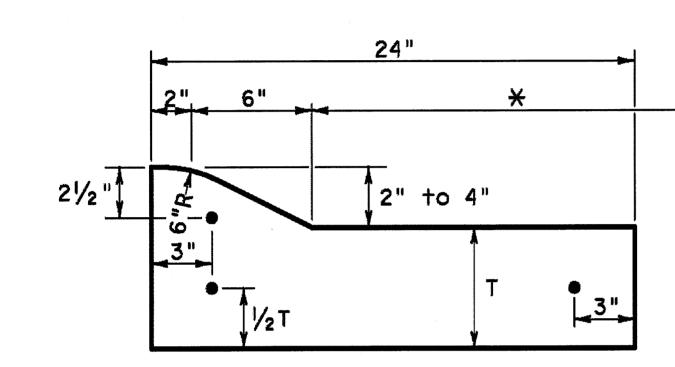




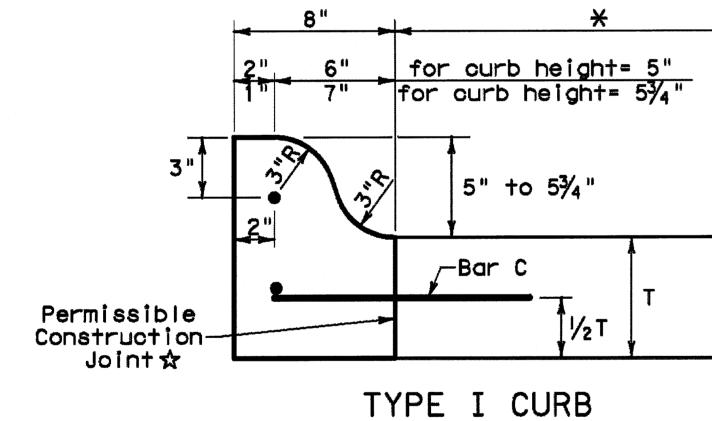




TYPE I CURB (MONOLITHIC) 2" - 4" HEIGHT



TYPE I CURB AND GUTTER 2" - 4" HEIGHT



TYPE I CURB 5" - 5¾" HEIGHT

10'-0" Curb Transition (0" to 2")

20'-0" Curb Transition (0" to 5")
30'-0" Curb Transition (over 5")

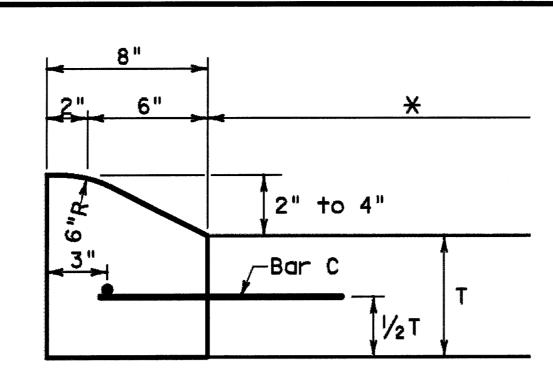
CURB TRANSITION

Note: To be paid for as Highest Curb

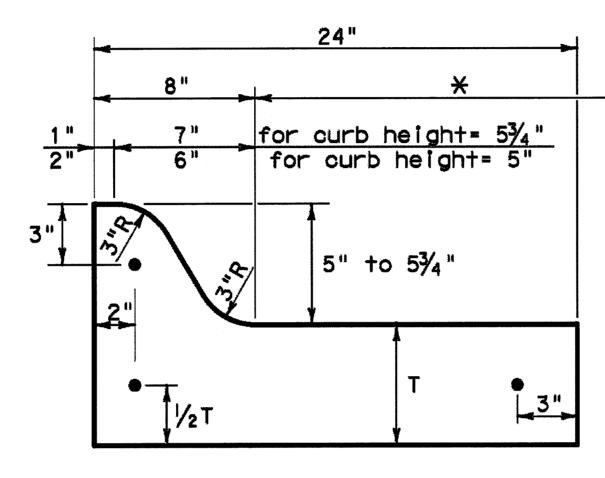
Top of Pavement

Change in Height

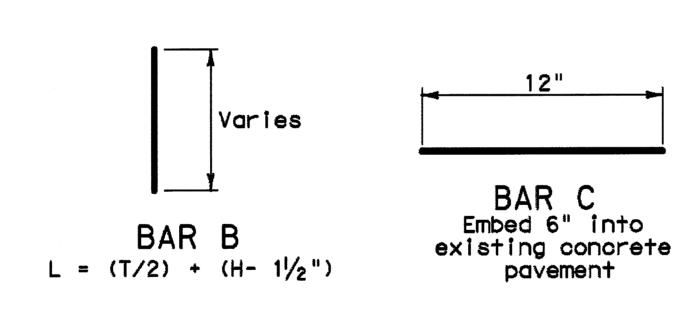
Top of Curb-



TYPE I CURB 2" - 4" HEIGHT

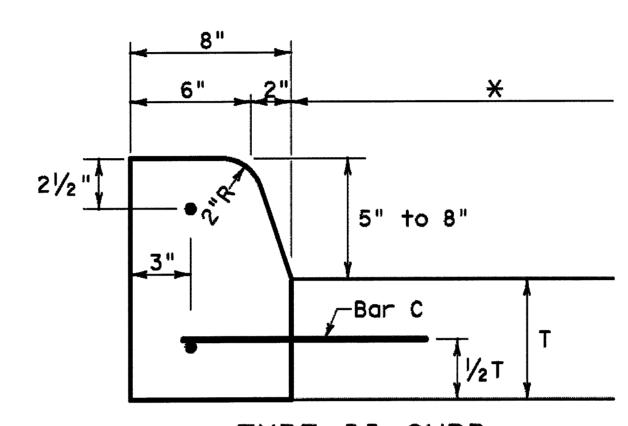


CURB AND GUTTER 5" - 53/4" HEIGHT

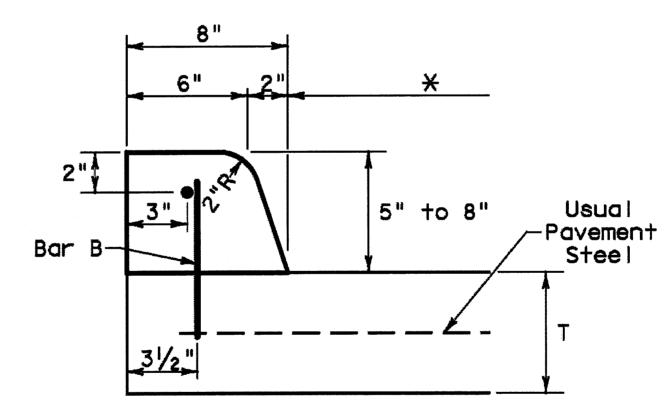


5" to 8" Bar B Permissible Construction-Join†☆

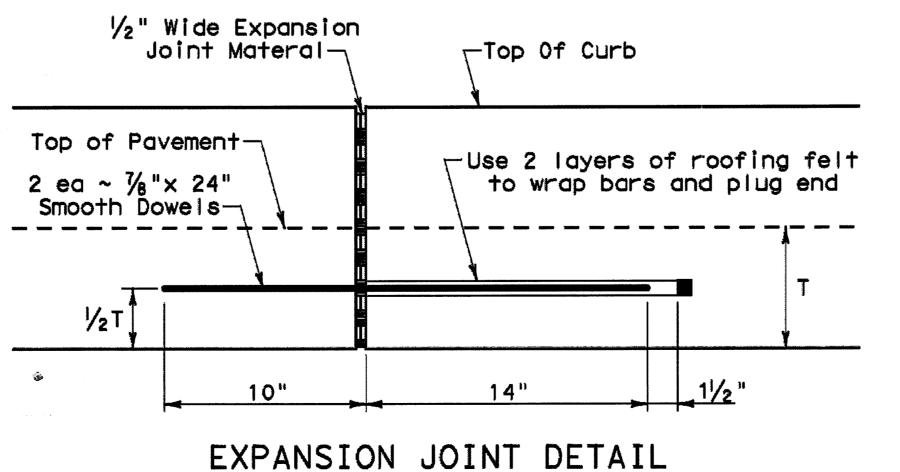
TYPE II CURB (MONOLITHIC) 5" - 8" HEIGHT



TYPE II CURB 5" - 8" HEIGHT SHOWING DOWELED VERTICAL JOINT



TYPE II CURB 5" - 8" HEIGHT SHOWING DOWELED HORIZONTAL JOINT



TYPE I-A = 2" HEIGHT TYPE II-A = 5" - 53/4" HEIGHT TYPE II-B = $6" - 6\frac{3}{4}$ " HEIGHT TYPE I-B = 3" HEIGHT

TYPE II-C = 7" - 73/4" HEIGHT TYPE I-C = 4" HEIGHT TYPE II-D = > 7¾" HEIGHT TYPE I-D = 5" HEIGHT

TYPE I-E = 53/4" HEIGHT

(See General Notes)

General Notes

Usual

-Pavement

Stee!☆

Maximum height for Type I curb or curb and gutter shall be 5¾".

All existing curbs and driveways to be removed shall be sawed or removed at existing joints.

Where concrete curb is placed on existing concrete pavement, the pavement shall be drilled (5/8" dia.) and the reinforcing bars grouted in place or secured with Epoxy conforming to Departmental Material Specification DMS 6100, "Epoxies and Adhesives", Class III.

Expansion and contraction joints shall be constructed to match pavement joints in all curbs and curb and gutter adjacent to jointed concrete pavement. Where placement of curb or curb and gutter is not adjacent to concrete pavement, expansion joints shall be provided at structures, curb returns at streets, and at locations directed by The Engineer.

All reinforcing bars shall be No.4 unless otherwise shown.

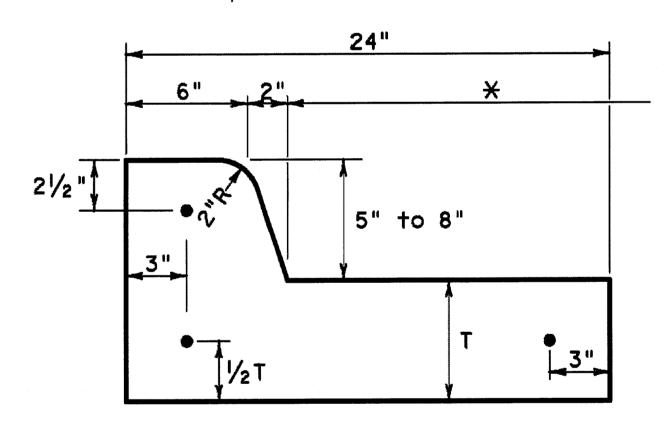
Vertical and horizontal dowel bars and transverse reinforcing bars shall be placed at four feet C~C.

Dimension 'T' shown above is the thickness of concrete pavement or flexible base and surface (8" maximum).

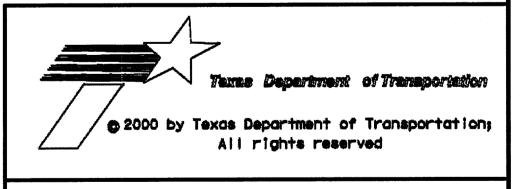
* Usual profile grade line. Refer to typical sections and plan-profile sheets for exact locations.

One-half inch expansion joint materal shall be provided where curb or curb and gutter is adjacent to sidewalk or riprop.

☆ When vertical permissible construction joints are used, resulting in a longitudinal construction joint in the pavement, the longitudinal pavement steel shall be placed in accordance with pavement details shown elsewhere in the plans for longitudinal construction joints. Reinforcing steel for curb section shall then conform to that required for concrete ourb.



TYPE II CURB AND GUTTER 5" - 8" HEIGHT



CONCRETE CURB AND **CURB AND GUTTER** DETAILS CC-CG (FW)

ORIG DRAW MAR 2000	FED.RD. DIV.NO.	PROJECT NO.			SHEET NO.
REVISIONS:	6				
Moron 2002 - Revised Curb Types to comply with statewide standards.	STATE	STATE COUNTY		COUNTY	
Oct 2005 - Added sub-types for heights, to comply with	TEXAS	FTW			
2004 Spec Book; planified construction methods. Jonuary 2008 - Epoxy Type	CONT.	SECT.	JOB	HIGHWA'	' NO.
deliger 2 2000 - Chard 1200					