

Buddy Garcia, *Chairman*
Larry R. Soward, *Commissioner*
Bryan W. Shaw, Ph.D., *Commissioner*
Glenn Shankle, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 19, 2007

Mr. Thomas Bloxham
Comal Independent School District
1404 IH 35 North
New Braunfels, Texas 78130

Re: Edwards Aquifer, Comal County
NAME OF PROJECT: CISD Smithson Valley Middle School; Located at 6101 FM 311; Spring Branch, Texas
TYPE OF PLAN: Request for Approval of a Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer
Edwards Aquifer Protection Program ID No. 2718.00; Investigation No. 595954; Regulated Entity No. RN101251981

Dear Mr. Bloxham:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP application for the above-referenced project submitted to the San Antonio Regional Office by Gil Engineering Associates, Inc. on behalf of Comal Independent School District on September 24, 2007. Final review of the CZP was completed after additional material was received on November 27, 2007, December 12, 2007 and December 19, 2007. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The existing 60.0-acre school site currently has 243,883 square feet (5.60 acres) of impervious cover. The proposed commercial (school) project will remove 7,553 square feet (0.17 acres) of impervious cover and construct 28,597 square feet (0.66 acres) of impervious cover. The impervious cover will include two building additions, a tennis court and rerouting an existing driveway. A sedimentation filtration basin will be constructed with the project to treat stormwater runoff. The net impervious cover at the site will be 264,928 square feet (6.08 acres, 10.13% of site). The increase of total suspended solids (TSS) over background and requiring treatment is 433.65 pounds from 21,045 square feet (0.48 acres). According to a letter dated, December 12, 2007, signed by Mr. Robert Boyd, with Comal County, the site in the development is acceptable for the use of on-site sewage facilities.

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, a sand filter basin designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005) will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 433.65 pounds of TSS generated from the 0.48 acres of regulated impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The individual treatment measure is designed for 0.656 acres of impervious cover from a watershed area of 0.656 acres and 588.8 pounds of TSS. The total capture volume for the basin is 5,245 cubic feet (4,286 cubic feet required) and a sand filter area of 374 square feet (357 square feet required). The basin is to have a geomembrane liner, a water quality depth of 2.5 feet, an 18 inch sand layer, a 6 inch gravel layer and 6 inch perforated PVC piping under 2 inches of gravel.

SPECIAL CONDITIONS

- I. The holder of the approved Edwards Aquifer CZP must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the application.
- II. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office; proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested format (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved CZP is enclosed.
- III. The permanent pollution abatement measure shall be operational prior to occupancy or use of the constructed facilities associated with this approval.
- IV. Intentional discharges of sediment laden storm water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
- V. All sediment and/or media removed from the water quality basin during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.
- VI. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.

Prior to Commencement of Construction:

2. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.

3. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
4. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.
5. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

6. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
7. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).
8. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
9. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

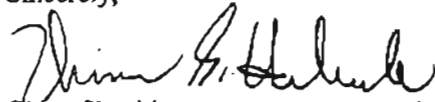
10. Owners of permanent BMPs and measures must insure that the BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.

Mr. Thomas Bloxham
December 19, 2007
Page 4

11. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
12. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
13. A Contributing Zone Plan approval or extension will expire and no extension will be granted if more than 50% of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
14. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

If you have any questions or require additional information, please contact Charly Fritz of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4065.

Sincerely,

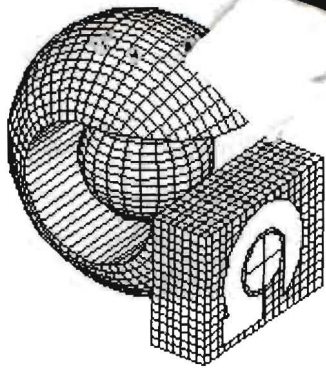


Glenn Shankle
Executive Director
Texas Commission on Environmental Quality

GS/CEF/eg

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625
Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Victor Gil, P.E., Gil Engineering Associates, Inc.
Ms. Velma Danielson, Edwards Aquifer Authority
Mr. Tom Hornseth, Comal County
TCEQ Central Records, Building F, MC 212



Gil Engineering Associates, Inc.

CONSULTING ENGINEERS

SURVEYORS

PLANNERS

BUILDING DESIGNERS

506 EAST BRAKER LANE AUSTIN, TEXAS 78753-2751 phone (512) 835-4203

fax (512) 835-4407

December 11, 2007

Texas Commission on Environmental Quality
Attn: Charlyne Fritz, Environmental Investigator
14250 Judson Road
San Antonio, Texas 78233-4480

RE: Comal ISD **Smithson Valley Middle School**
Contributing Zone Plan (CZP)

Dear Charly:

Please accept this as a comment response letter to the letter Dated December 5, 2007.

Comment 1

See attached suitability letter from Comal County Office of Comal County Engineer.

Comment 2

The required detail and specifications table for the Geotextile Fabric from Section 3.4.2 of the Edwards Aquifer Technical Guidance Manual, page 3-39 have been added to Sheet CG 1.01

If you need anything else please feel free to call.

Sincerely,

Victor M. Gil, P.E., R.P.L.S.
Gil Engineering Associates, Inc.
VMG/mvg

TOEC-R13
DEC 12 2007
SAN ANTONIO



Comal County

OFFICE OF COMAL COUNTY ENGINEER

December 12, 2007

Mr. Victor Gil, P.E., R.P.L.S.
Gil Engineering Associates, Inc.
506 E. Braker Lane
Austin, TX 78753-2751

Re: CISD Smithson Valley Middle School Contributing Zone Plan On-Site Sewage
Facility Suitability Letter, within Comal County, Texas

Dear Mr. Gil:

In accordance with TAC §213.24(8)(B), Comal County has found that the entire referenced site is suitable for the use of private sewage facilities and will meet the requirements for on-site sewage facilities as specified in TAC §285 based on the following information submitted to our office on October 1, 2007:

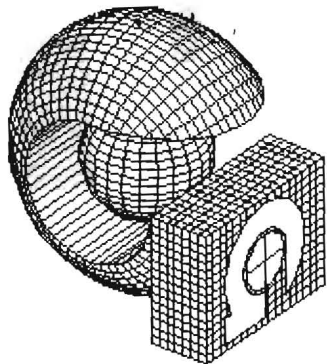
- The Contributing Zone Plan, prepared by Gil Engineering Associates, Inc., which states that there are no areas that are not suitable for the use of private sewage facilities

If you have any questions or need additional information, please do not hesitate to contact our office.

Sincerely,

Robert Boyd, P.E.
Comal County Assistant Engineer

cc: Jack Dawson, Comal County Commissioner, Precinct No. 1



Gil Engineering Associates, Inc.

CONSULTING ENGINEERS

SURVEYORS

PLANNERS

BUILDING DESIGNERS

506 EAST BRAKER LANE AUSTIN, TEXAS 78753-2751 phone (512) 835-4203

fax (512) 835-4407

December 18, 2007

Texas Commission on Environmental Quality
Attn: Charlyne Fritz, Environmental Investigator
14250 Judson Road
San Antonio, Texas 78233-4480

RE: Comal ISD Smithson Valley Middle School
Contributing Zone Plan (CZP)

Dear Charly:

Please accept this as a comment response letter to our phone conversation on December 18, 2007.

I have updated the filtration area to the WQV/10 calculation instead of the previously issued calculation of WQV/18. The filtration basin area has increased to 357 sq.ft. I have moved the gabion wall back approximately 4 feet to accommodate the increase in filtration basin area. The new filtration area shown on the plan is 374 sq.ft., 17 sq.ft. larger than required. I have reissued CG1.01 with the new filtration area drawn and the gabion wall moved back. I have reissued CG5.01 with the new calculations shown on the sheet.

If you need anything else please feel free to call.

Sincerely,

Victor M. Gil, P.E., R.P.L.S.
Gil Engineering Associates, Inc.
VMG/mvg

2007 DEC 19 PM 12:25

"RECEIVED TCEQ"
SAN ANTONIO
REGION

STANDARD NOTES FOR
EROSION AND SEDIMENTATION CONTROL

9. Permanent Erosion Control:

All disturbed areas shall be restored as noted below

10. Developer Information:
Owner: Comal Independent School District
Phone #: (830) 221-2000
Address: 1421 N. Business 35, New Braunfels, Texas 78130

Owner's representative responsible for plan alterations:
SHW GROUP (512)795-0088

Person or firm responsible for erosion/sedimentation control maintenance:
% SLOPE
Person or firm responsible for tree/natural area protection maintenance:

Technical drawing of a mechanical part, likely a bracket or support, showing a cross-section with a circular hole and a rectangular cutout. The drawing is labeled with dimensions and part numbers.

SHW Group LLP
Architects + Engineers + Planners

Consultants:
CIVIL:
GW Engineering Associates, Inc.
 CONSULTING ENGINEERS - SURVEYORS

© 2007 GSI Engineering Associates, Inc.
STRUCTURAL:
JASTER-QUINTANILLA & ASSOC. INC

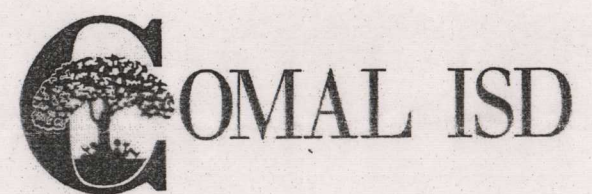
MEP:
DBR ENGINEERING CONSULTANTS

**FOR BIDDING AND
CONSTRUCTION**



7. ✓

OMAL ISD



**SMITHSON VALLEY
MIDDLE SCHOOL**
ADDITIONS AND RENOVATIONS

CHECKED:
ACAD File: CS 1.02 SEDIMENT CONTROL PLAN
© 2006 SHW Group LLP

ISSUE:

71-011W 27 MAR 1967

SHEET TITLE:
**OVERALL SITE
EROSION &
SEDIMENTATION
CONTROL PLAN**

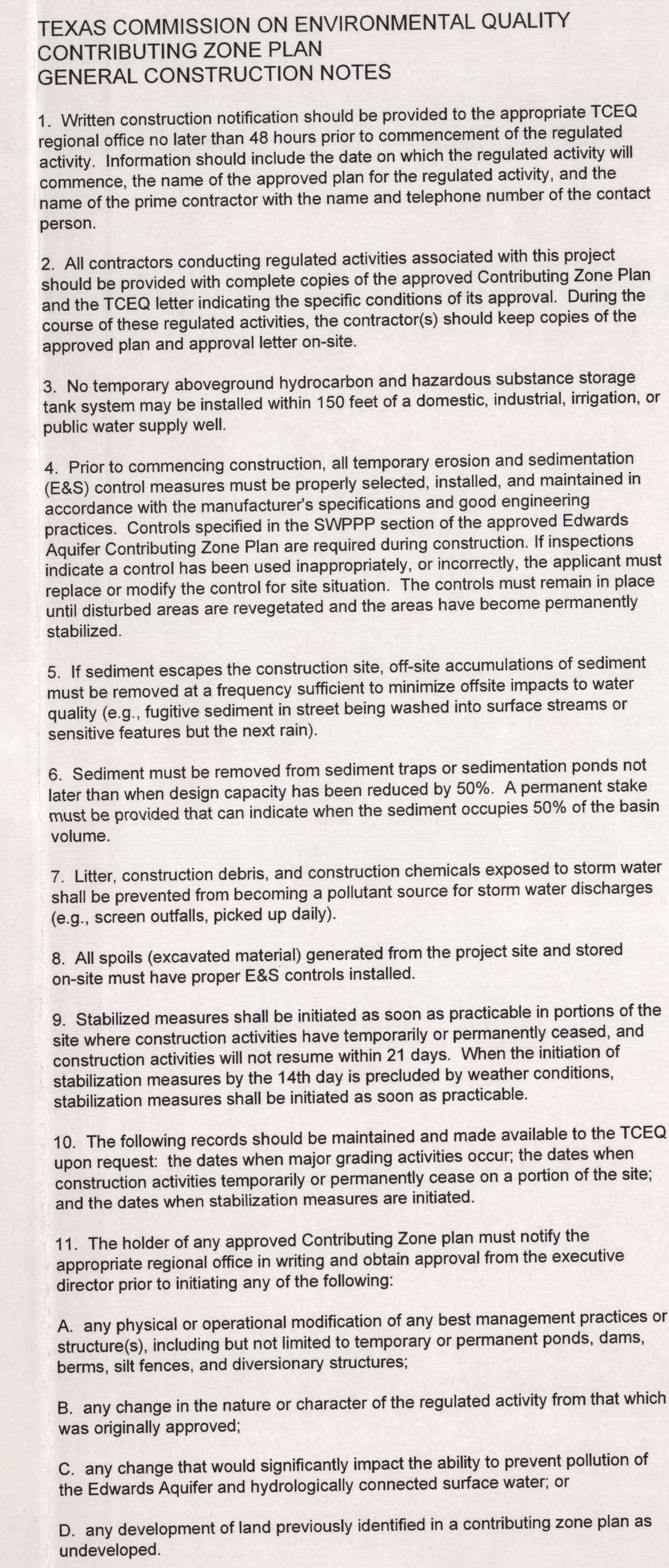
CS 1.01

SHW Project: 4306.002.00

Nov 26, 2007 - 4:40pm User: HP_Administrator
 \Projects\Comal I.S.D\Smithson valley M.S\BIDDING DOCS\CS 1.02 SEDIMENT CONTROL PLAN.dwg

User: HP_Administrator
Projects\Comal I.S.D\Sn

Nov 26, 2007 - 4:40pm
\\FIIFSERVER\D on Server




H

SHW

SHW Group LLP
Architects + Engineers + Planners

Consultants:

CIVIL:
all Engineering Associates, Inc.
CONSULTING ENGINEERS - SURVEYORS




G © 2007 GE Engineering Associates, Inc.

STRUCTURAL:
JASTER-QUINTANILLA & ASSOC. INC

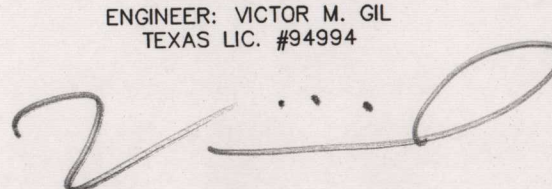
MEP:
DBR ENGINEERING CONSULTANTS

F

**FOR BIDDING AND
CONSTRUCTION**




ENGINEER: VICTOR M. GIL
TEXAS LIC. #94994

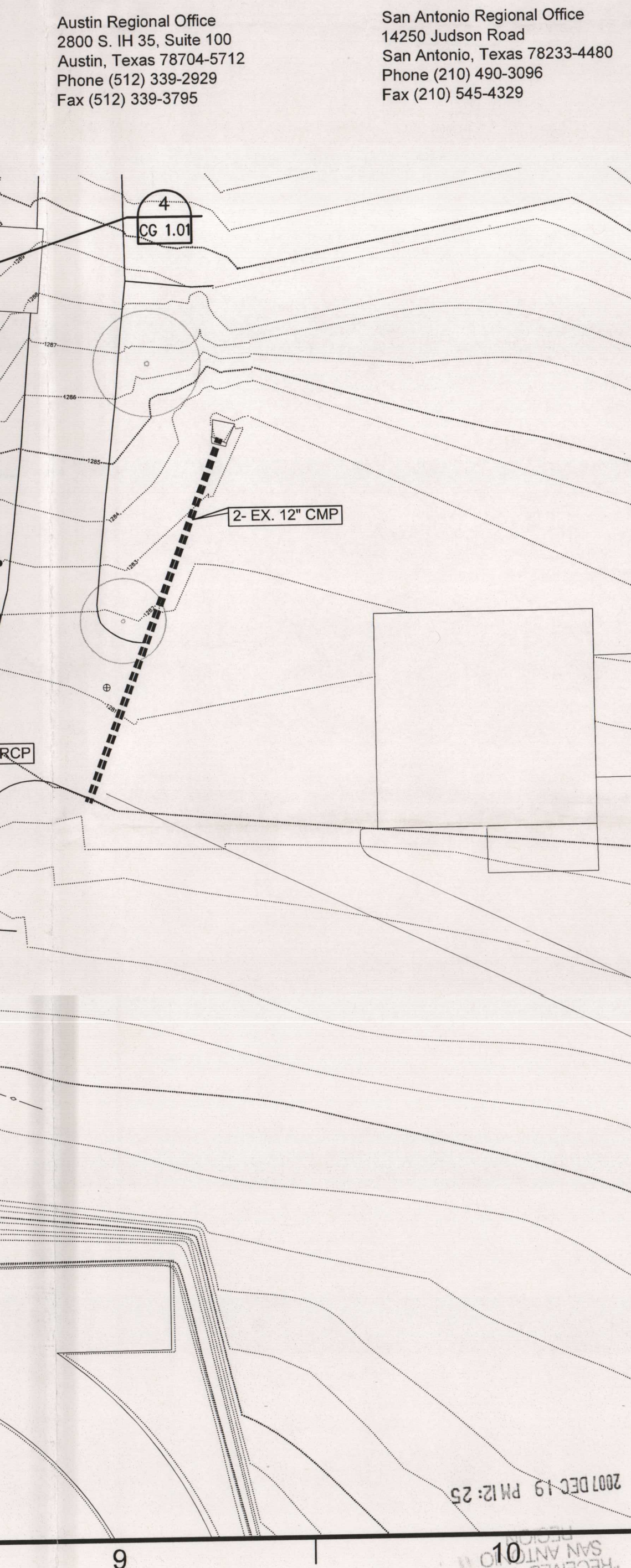


E


COMAL ISD



COMAL ISD



D

SMITHSON VALLEY
MIDDLE SCHOOL
ADDITIONS AND RENOVATIONS

CHECKED:
ACAD File: CG 1.01 DRAINAGE AND GRADING PLAN
© 2006 SHW Group LLP

Revisions:

C

B

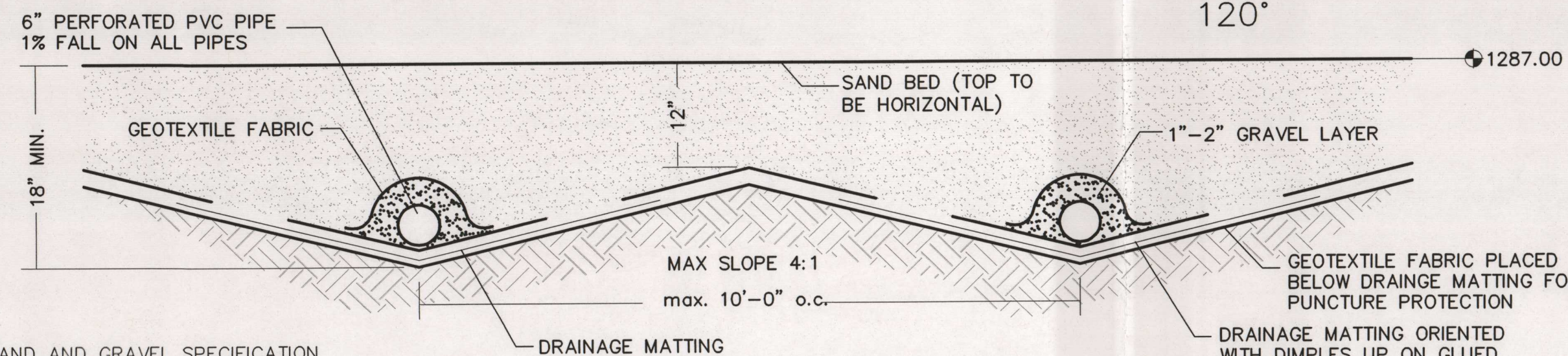
SHEET TITLE:
**DRAINAGE AND
GRADING PLAN**

A

CG 1.01

SHW Project: 4306.002.00

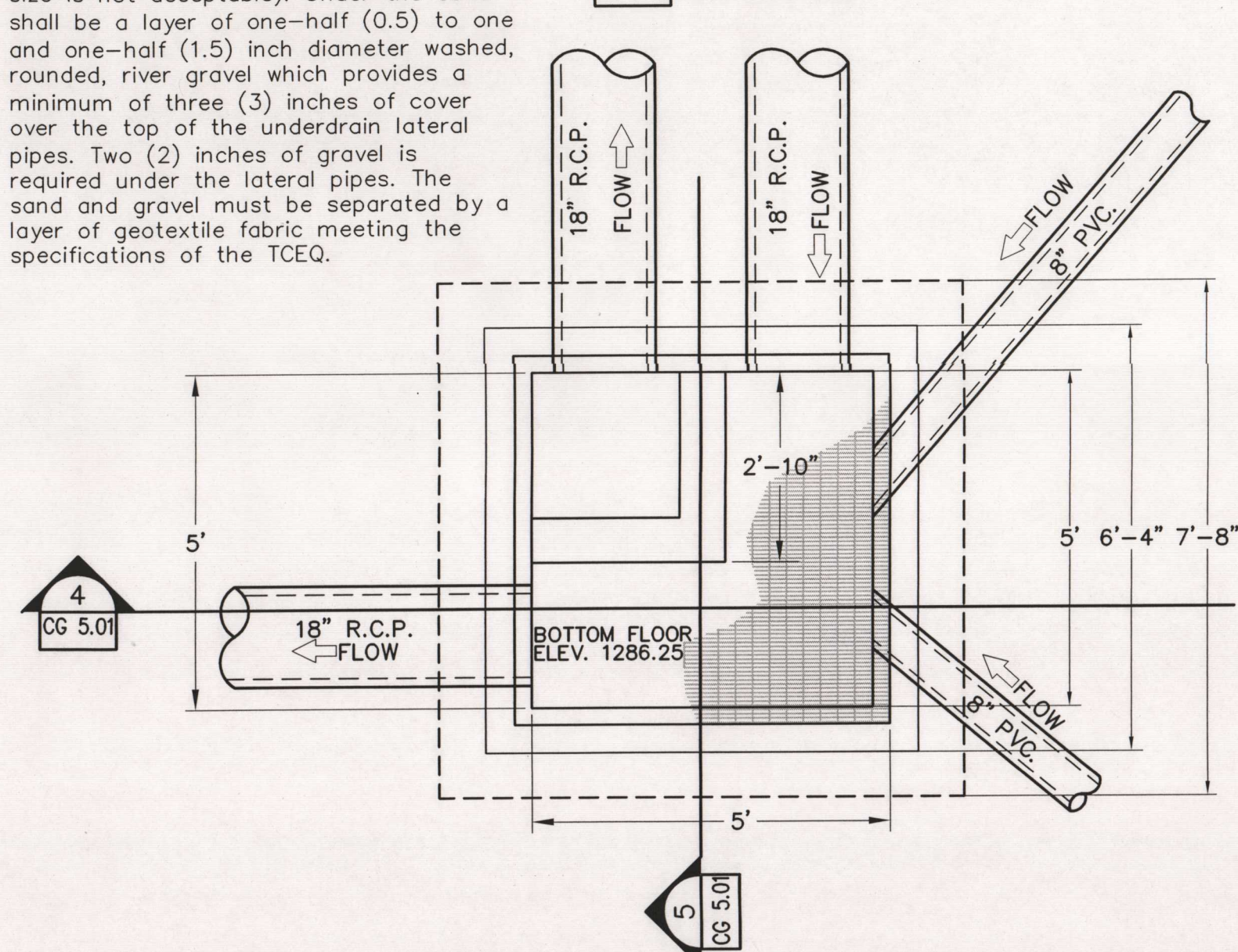
Dec 18, 2007 - 4:42pm User: Victor Gil
S:\Projects\Comal ISD\Smithson valley M.S\BIDDING DOCS\CG 1.01 DRAINAGE AND GRADING PLAN.dwg



SAND AND GRAVEL SPECIFICATION
The top layer is to be a minimum of eighteen (18) inches of 0.02-0.04 inch diameter sand which corresponds with ASTM C-33 concrete sand (smaller sand size is not acceptable). Under the sand shall be a layer of one-half (0.5) to one and one-half (1.5) inch diameter washed, rounded, river gravel which provides a minimum of three (3) inches of cover over the top of the underdrain lateral pipes. Two (2) inches of gravel is required under the lateral pipes. The sand and gravel must be separated by a layer of geotextile fabric meeting the specifications of the TCEQ.

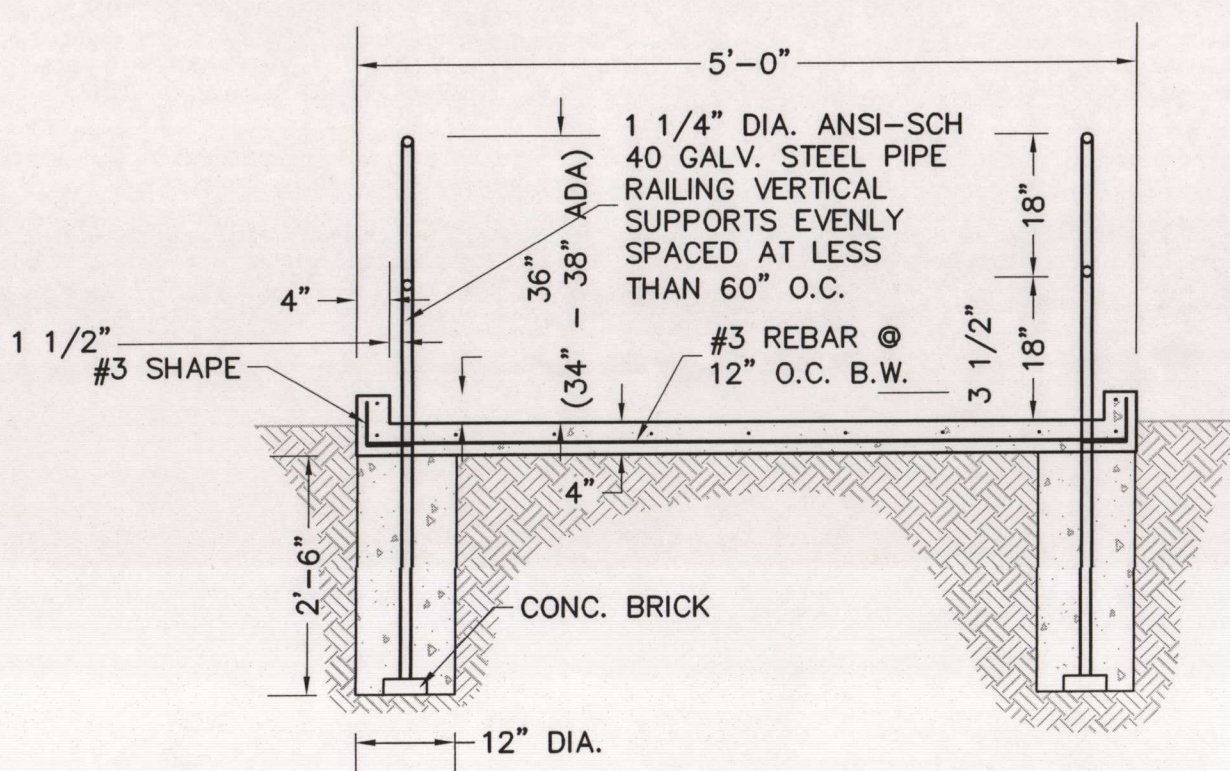
SAND FILTER BED

CG 5.01 NOT TO SCALE



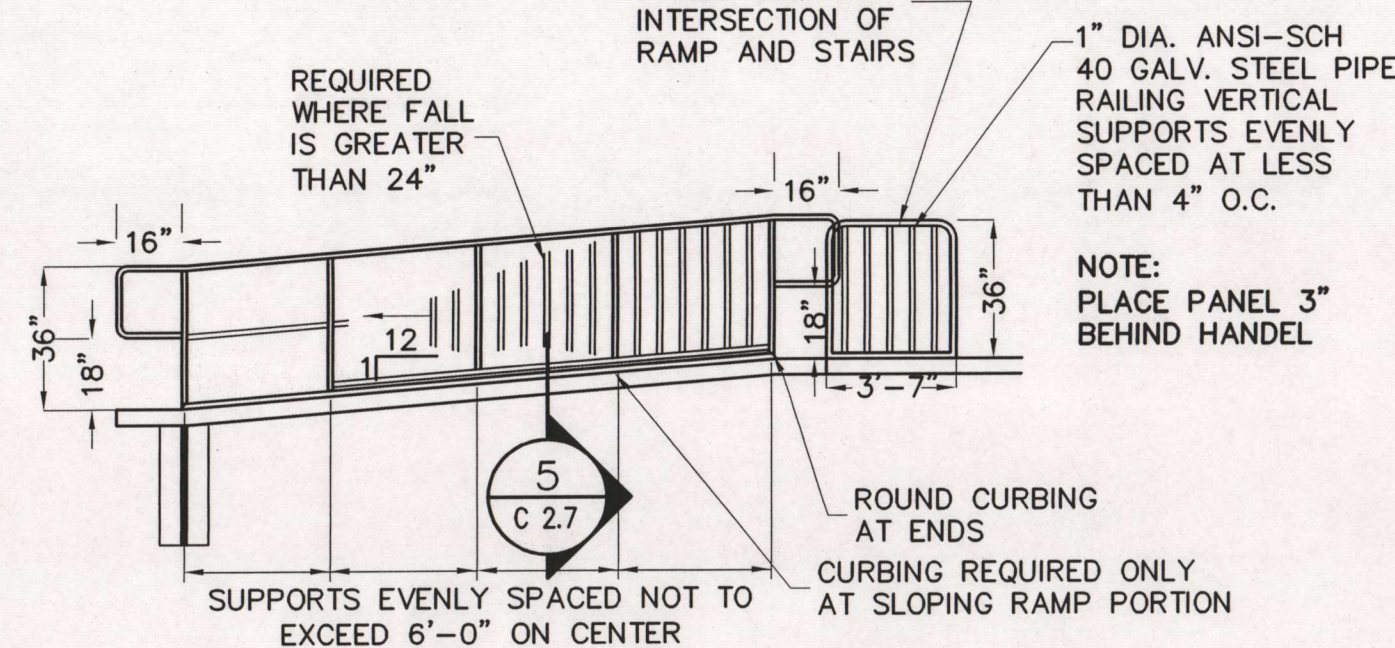
SPLITTER BOX PLAN

CG 5.01 NOT TO SCALE



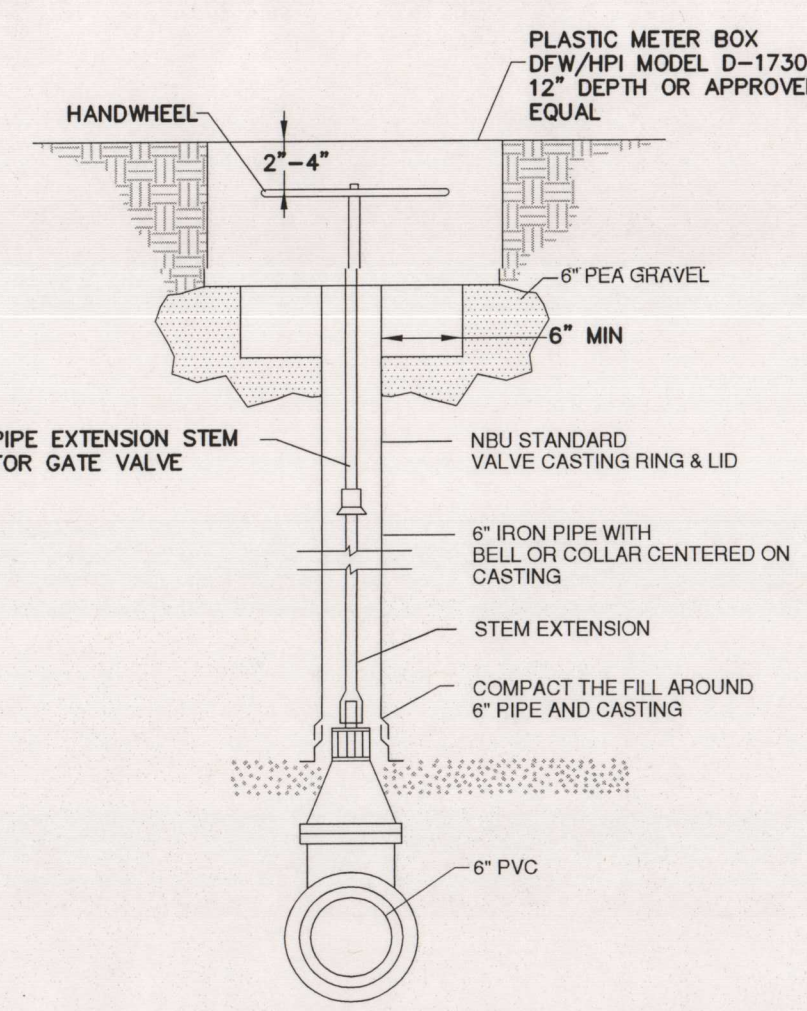
RAMP SECTION

CG 5.01 NOT TO SCALE



RAMP ELEVATION

CG 5.01 NOT TO SCALE



6 inch FILTRATION SHUT OFF VALVE

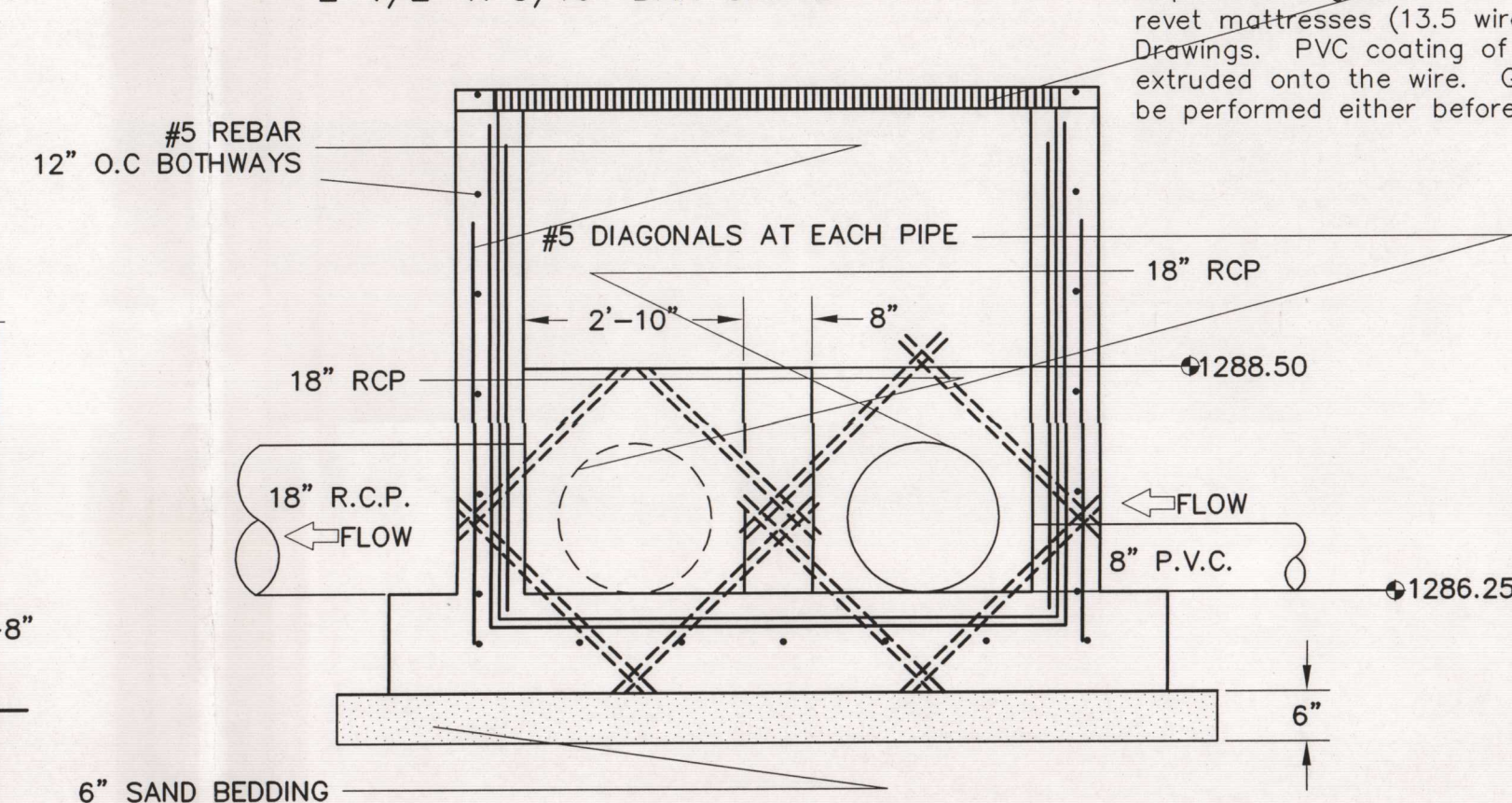
CG 5.01 NOT TO SCALE

3' X 4' GABION DIVIDER

CG 5.01 NOT TO SCALE

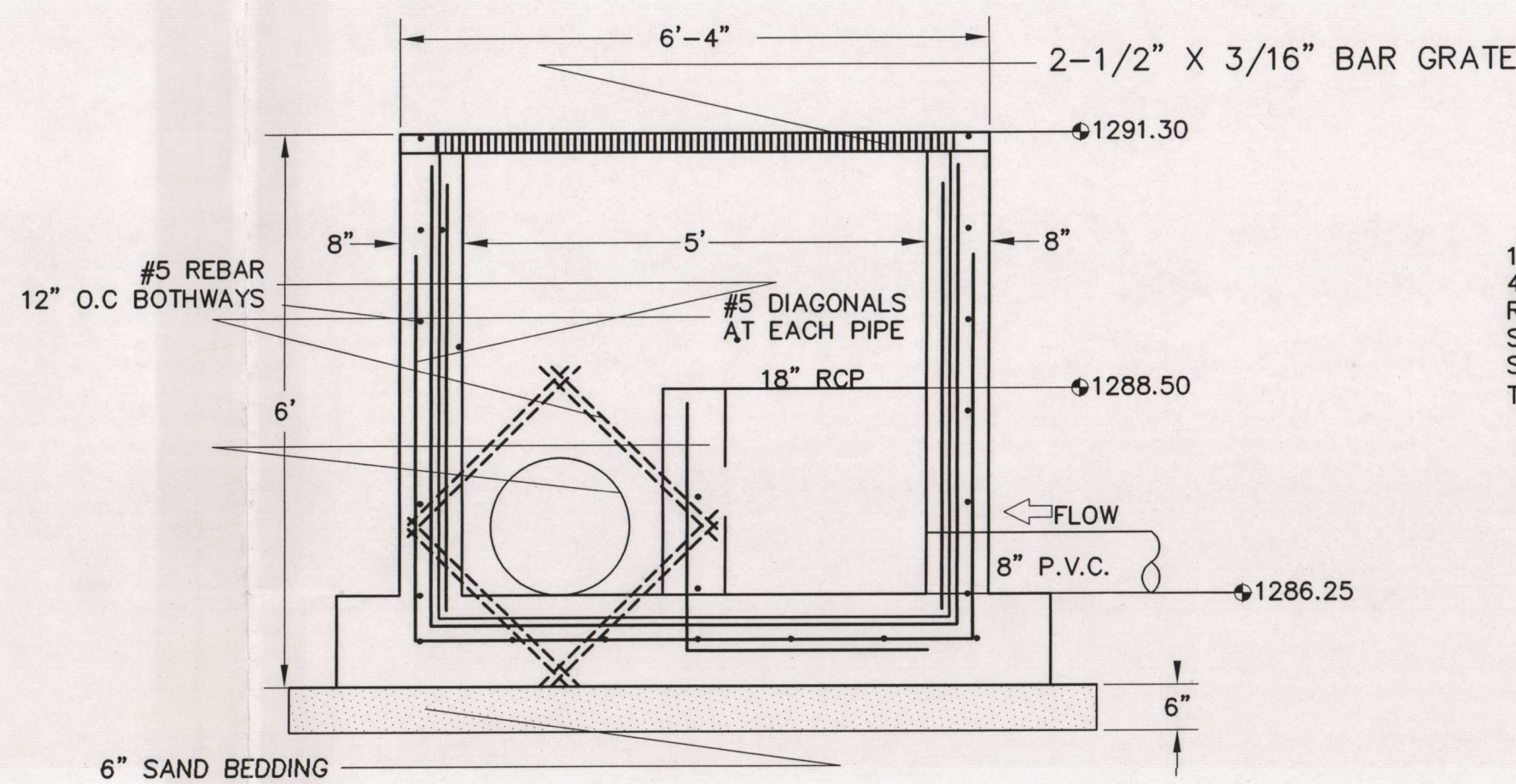
GABION WIRE SPECIFICATION Gabion wire shall be galvanized steel, Class 3 or A coating, soft temper conforming to ASTM A 641, and shall be specifically meet the requirements given below for gabions (12 gage wire) and/or rebar mattresses (13.5 wire gage) as called for in the Drawings. PVC coating of the wire may be fuse-bonded or extruded onto the wire. Galvanization of welded wire shall be performed either before or after welding.

2-1/2" X 3/16" BAR GRATE



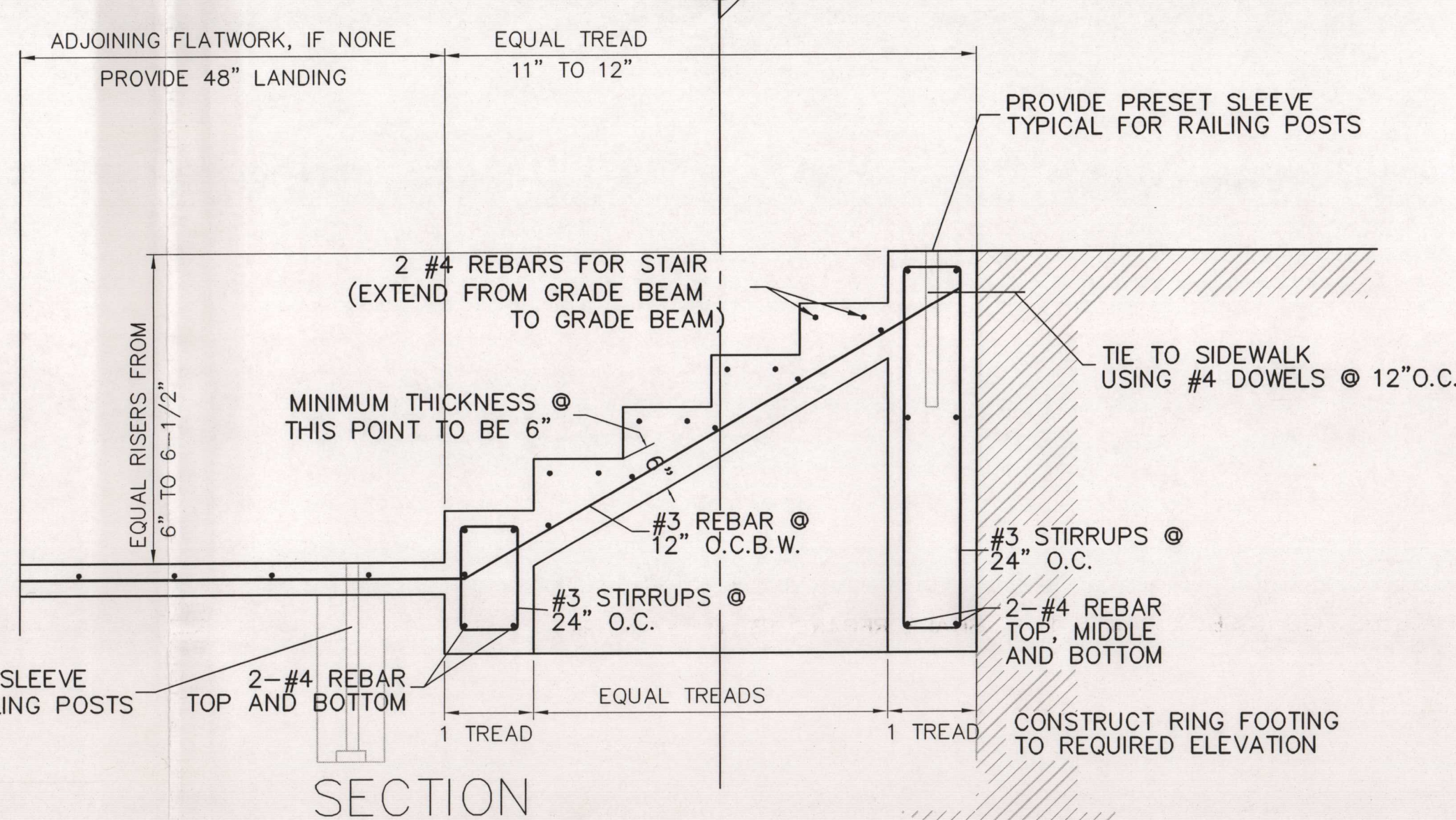
SPLITTER BOX SECTION

CG 5.01 NOT TO SCALE



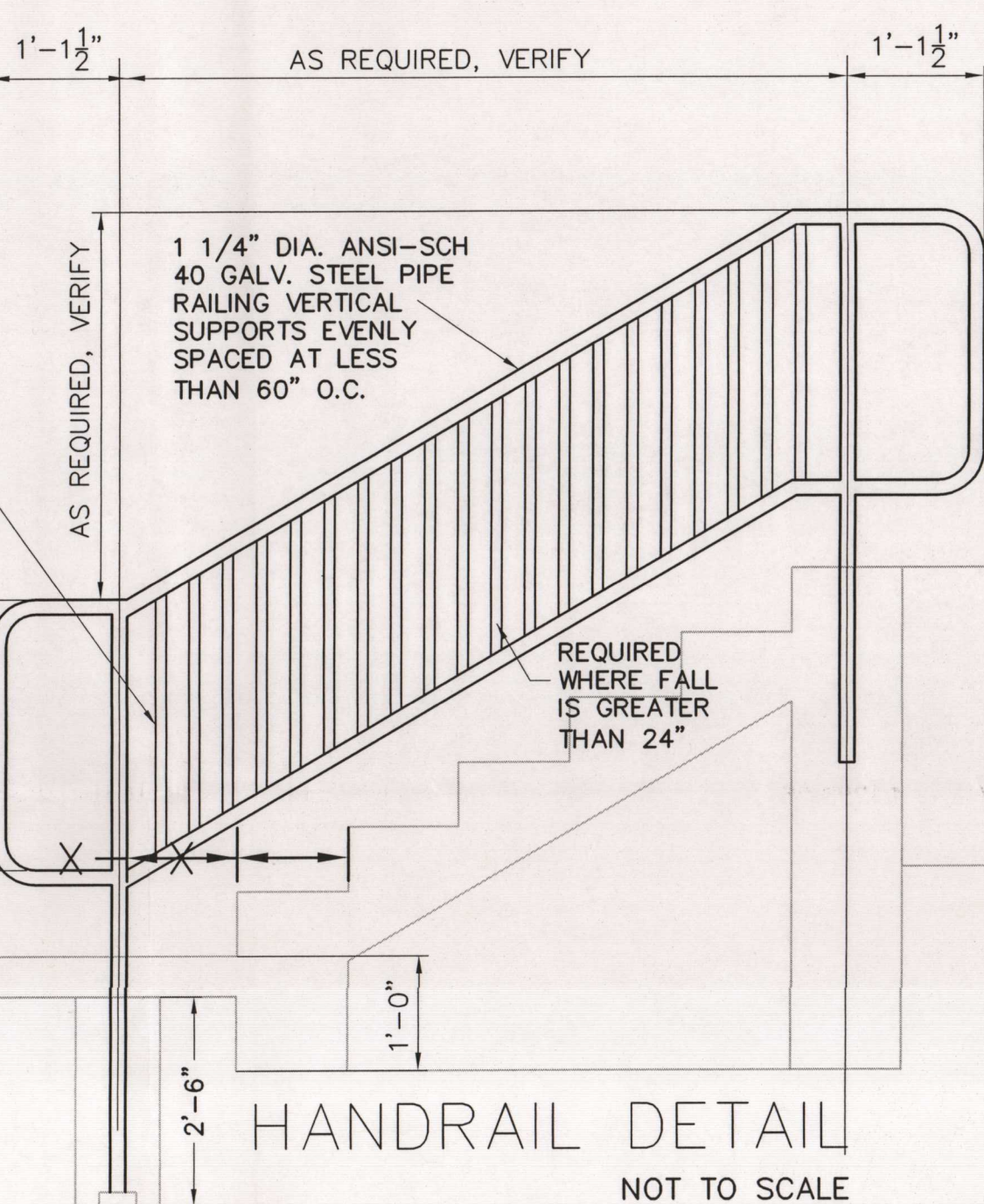
SPLITTER BOX SECTION

CG 5.01 NOT TO SCALE



STAIR DETAILS

CG 5.01 NOT TO SCALE



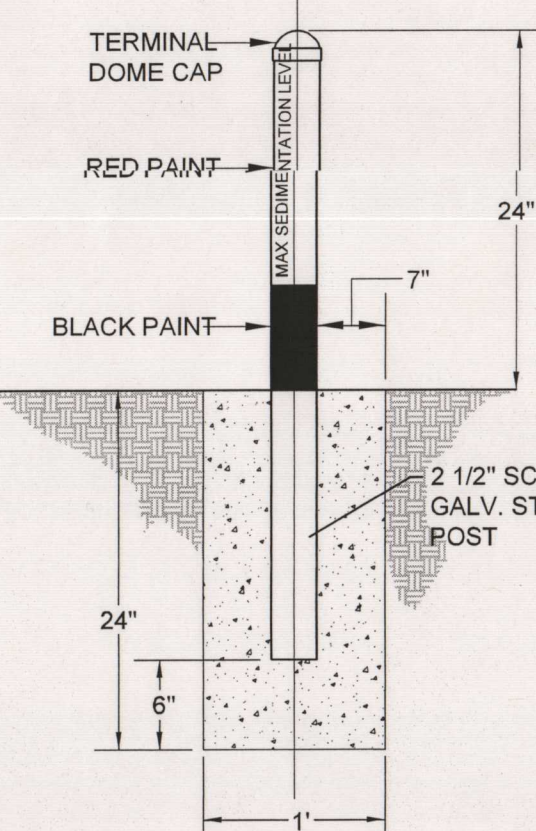
ALL REINFORCEMENT JOINTS SHALL BE SPICED A MIN. OF 18" INTERSECTIONS OF INTERIOR GRADE BEAMS TO PERIMETER GRADE BEAMS SHALL BE TIED TOGETHER WITH 4 "L" SHAPE REBARS 18" ON EACH SIDE.

NOTE: STAIRS WIDER THAN 88" SHALL HAVE INTERMEDIATE HAND-RAILS EVENLY SPACED NOT TO EXCEED 88" ON CENTER.

ALL RAILING MATERIAL SHALL BE NEW 1 1/4" DIA. SCH 40 GALVANIZED STEEL PIPE

SEDIMENT DEPTH MARKER

CG 5.01 NOT TO SCALE



Time of Concentration (Existing)									
Sheet Flow					Shallow Concentrated Flow				
Area No.	Length (ft)	Manning's n	Slope (ft/ft)	Tc (min)	Length (ft)	Manning's n	Slope (ft/ft)	Tc (min)	Tc Value Used (min)
1	100	0.1	0.01	2.38	200	0.1	0.01	3.33	5.71
Total Calculated Tc (min)					5.71				

Time of Concentration (Proposed)									
Sheet Flow					Shallow Concentrated Flow				
Area No.	Length (ft)	Manning's n	Slope (ft/ft)	Tc (min)	Length (ft)	Manning's n	Slope (ft/ft)	Tc (min)	Tc Value Used (min)
1	10	0.02	0.01	0.05	100	0.1	0.01	1.67	1.71
Total Calculated Tc (min)					1.71				

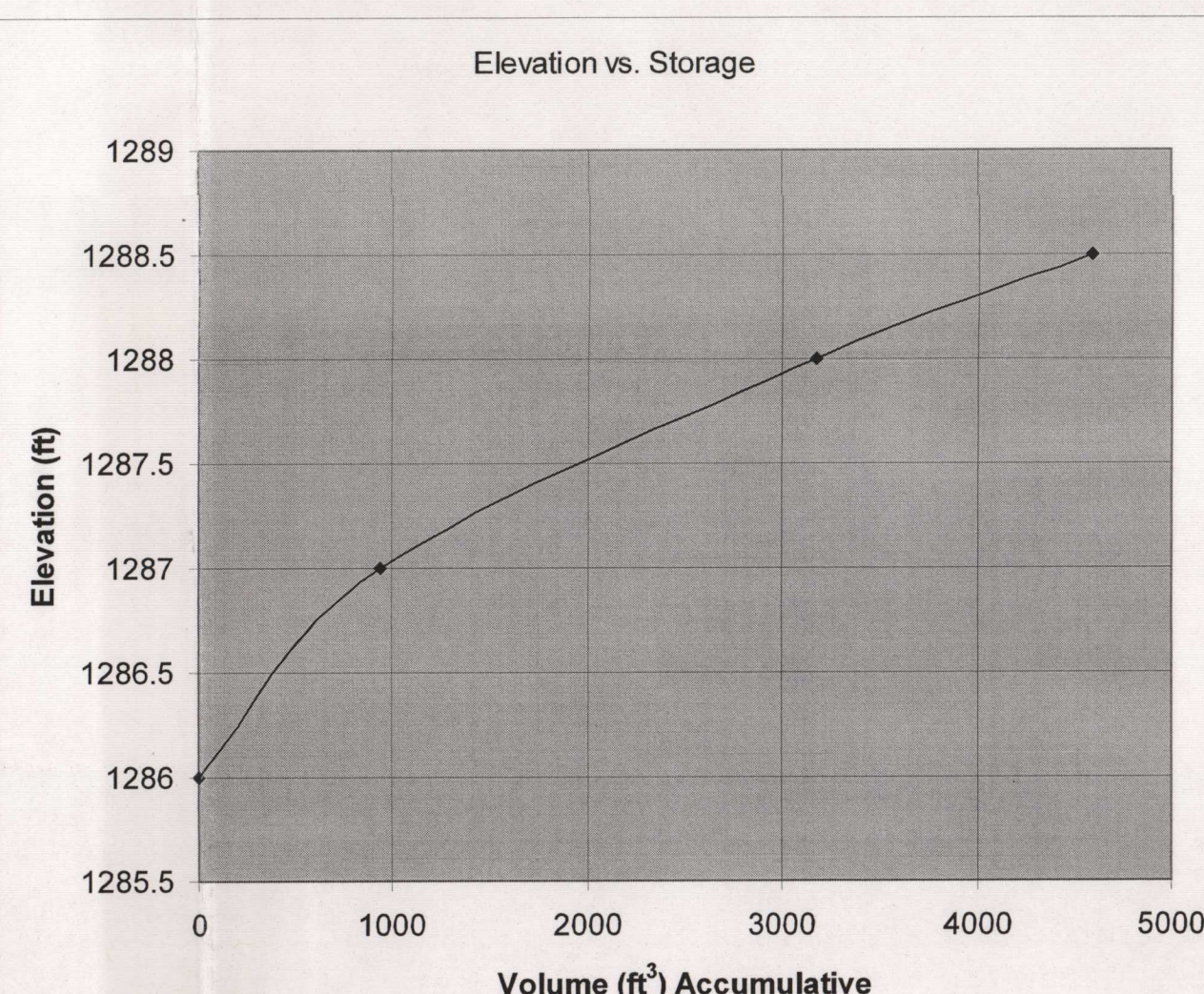
Manning's n for Overland Flow and Shallow Concentrated Flow									
Concrete (Rough or Smoothed Finish)					Condition				
0.016	0.02	0.01	0.02	0.03	0-50% vegetated ground cover, remaining bare soil or rock outcrops, minimum brush or tree cover	0.05	0.1	0.15	0.2
0.1	0.2	0.3	0.4	0.5	50% to 90% vegetated ground cover remaining soil or rock outcrops, minimum - medium brush or tree cover	0.2	0.3	0.4	0.5
0.3	0.4	0.5	0.6	0.7	100% vegetated ground cover, medium - dense grasses (lawns, grassy fields, etc.) medium brush or tree cover	0.3	0.4	0.5	0.6
0.6	0.7	0.8	0.9	1.0	100% vegetated ground cover with areas of heavy vegetation (parks, green belts, riparian areas, etc.) dense under growth with medium to heavy tree growth	0.6	0.7	0.8	1.0

Existing Flow Determination									
Description					Return Period				
					2 Year	5 Year	10 Year	25 Year	50 Year
Composite "C"					0.29	0.32	0.35	0.39	0.42
Intensity (in/hr)					5.90	7.61	9.24	11.12	12.78
Area (ac.)					0.387	0.387	0.387	0.387	0.387
Existing Flow (cfs)					0.66	0.94	1.25	1.68	2.07

Proposed Flow Determination									
Description					Return Period				
					2 Year	5 Year	10 Year	25 Year	50 Year
Composite "C"					0.75	0.80	0.83	0.88	0.92
Intensity (in/hr)					6.10	7.88	9.61	11.58	13.31
Area (ac.)					0.387	0.387	0.387	0.387	0.387
Proposed Flow (cfs)					1.77	2.44	3.08	3.94	4.73

Detention Storage Required									
Depth vs. Storage Table					Return Period				
					2 Year	5 Year	10 Year	25 Year	50 Year
Critical Storm duration (min)					31.25	30.59	26.53	24.99	23.06
Calculated detention volume (cf)					828	1,086	1,191	1,426	1,885
Cumulative precipitation for storm duration (in)					1.48	1.88	2.06	2.40	2.70
Cumulative precipitation for 3 hour storm (in)					2.45	3.27	3.84	4.67	5.40
Required Storage volume (cf)					1,356	1,892	2,222	2,761	3,881

Modified Rational Method									
Description					Return Period				
					2 Year	5 Year	10 Year	25 Year	50 Year
100 Year Storage Required									3,881
Storage Provided Detention Pond									4,582
Excess Storage									700
100 yr water surface elevation									1288.5
Top of pond									1289



Required Sedimentation Pond Volume									
Capture Rate (in)					100% Impervious Cover				
Capture Area (sf)					28,597	100%	28,597	00 sq ft	
Water Quality Volume WQV (cf)					3,575				
120% of WQV (cf)					4,290				

Minimum Surface Areas									
Minimum Area of Filtration Basin Required					As= WQV/10				
Filtration Basin Area Required=					357	sf			

Sedimentation Basin Storage Provided									
Depth vs. Storage Table					Return Period				
					2 Year	5 Year	10 Year	25 Year	50 Year
Critical Storm duration (min)					31.25	30.59	26.53	24.99	23.06
Calculated detention volume (cf)					828	1,086	1,191	1,426	1,885
Cumulative precipitation for storm duration (in)					1.48	1.88	2.06	2.40	2.70
Cumulative precipitation for 3 hour storm (in)					2.45	3.27	3.84	4.67	5.40
Required Storage volume (cf)					1,356	1,892	2,222	2,761	3,881

Filtration Basin Storage Provided									
Depth vs. Storage Table					Return Period				
					2 Year	5 Year	10 Year	25 Year	50 Year
Critical Storm duration (min)					31.25	30.59	26.53	24.99	23.06
Calculated detention volume (cf)					828	1,086	1,191	1,426	1,885
Cumulative precipitation for storm duration (in)					1.48	1.88	2.06	2.40	2.70
Cumulative precipitation for 3 hour storm (in)					2.45	3.27	3.84	4.67	5.40
Required Storage volume (cf)					1,356	1,892	2,222	2,761	3,881

Drainage Area Data									
Drainage Area to Control					0.656 acres				
Drainage Area Impervious Cover					100.0	%			
Capture Depth CD (0.5" to 1.0")					1.500	in.			

WATER QUALITY CONTROL CALCULATIONS			
Pond #1			
The Water Quality Control is to be PARTIAL			Sec
Site Area Draining to Pond			
Total Area Draining to the Pond			
Design Peak Flow Rate			Ro
Water Quality Volume (CDArea)			
Sedimentation/Filtration Pond Depth			
Sedimentation Pond Area			
Sedimentation Pond Volume Min 20%			
Filtration Pond Area As			
Filtration Pond Volume			
Water Quality Elevation			
Elevation of Splitter/Overflow Weir			
Height of Gabion Wall			
Length of Splitter Weir			

Consultants:
CIVIL:
SHW Group LLP
Architects + Engineers + Planners
STRUCTURAL:
JASTER-QUINTANILLA & ASSOC. INC.
MEP:
DBR ENGINEERING CONSULTANTS

FOR BIDDING AND CONSTRUCTION



COMAL ISD

COMAL ISD

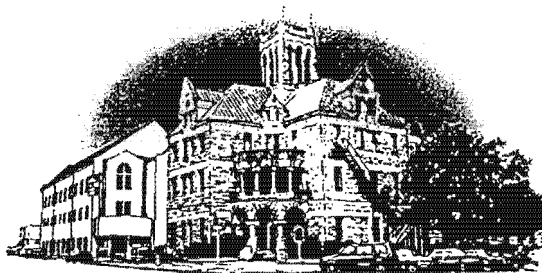
SMITHSON VALLEY
MIDDLE SCHOOL
ADDITIONS AND RENOVATIONS

CHECKED:
ACAD File: CG 1.01 DRAINAGE AND GRADING PL
© 2006 SHW Group LLP

ISSUE:

SHEET TITLE:
**DRAINAGE DETAILS
AND CALCULATIONS**

CG 5.01



Comal County

OFFICE OF COMAL COUNTY ENGINEER

December 12, 2007

Mr. Victor Gil, P.E., R.P.L.S.
Gil Engineering Associates, Inc.
506 E. Braker Lane
Austin, TX 78753-2751

Re: CISD Smithson Valley Middle School Contributing Zone Plan On-Site Sewage
Facility Suitability Letter, within Comal County, Texas

Dear Mr. Gil:

In accordance with TAC §213.24(8)(B), Comal County has found that the entire referenced site is suitable for the use of private sewage facilities and will meet the requirements for on-site sewage facilities as specified in TAC §285 based on the following information submitted to our office on October 1, 2007:

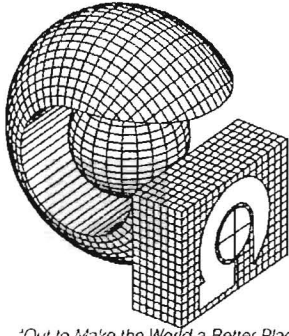
- The Contributing Zone Plan, prepared by Gil Engineering Associates, Inc., which states that there are no areas that are not suitable for the use of private sewage facilities

If you have any questions or need additional information, please do not hesitate to contact our office.

Sincerely,

Robert Boyd, P.E.
Comal County Assistant Engineer

cc: Jack Dawson, Comal County Commissioner, Precinct No. 1



'Out to Make the World a Better Place'

Gil Engineering Associates, Inc.

Established in 1980

CONSULTING ENGINEERS

SURVEYORS

PLANNERS

BUILDING DESIGNERS

506 EAST BRAKER LANE AUSTIN, TEXAS 78753-2751 phone (512) 835-4203

fax (512) 835-4407

December 11, 2007

County of Comal

Attn: Robert H. Boyd, P.E.

Assistant County Engineer

Comal County Engineer's Office

195 David Jonas Drive

New Braunfels, Texas 78132-3760

RE: Smithson Valley Middle School
Finding of Suitability for On Site Sewage Facility

Dear Mr. Boyd:

Copies of the water bills showing the water usage records for the subject school were provided to us by Thomas Bloxham, Assistant Superintendent of the Comal Independent School District. The water usage records provided were from January 2006 to October 2007. A copy of each of the bills is attached to this letter. A copy of the Canyon Lake Water Service Company's explanation of billing is also attached to corroborate our findings.

A table entitled Adjusted Smithson Valley Middle School Water Usage is attached to provide the gallons per day usage based on total units used (in gallons, point 7 on the Water Service Company's explanation) divided by the number of days used (point 8 on the Water Service Company's explanation). The gallons per day were then adjusted by subtracting 9 days to the days used. This adjustment is an average of 8 weekend days per month and 1 day for holidays or months having an extra Saturday and/or Sunday. The adjusted average daily use of water for this school is 558 gallons.

Based on these findings we would like to request that Comal County issue a suitability letter to the TECQ stating that the site qualifies for an On Site Sewage Facility to be permitted through the County. Your prompt attention to this request is greatly appreciated since the TECQ will not complete their review of our application until such a finding is made.

If you should need additional information, please call me at your convenience.

Sincerely,

Victor M. Gil, P.E.

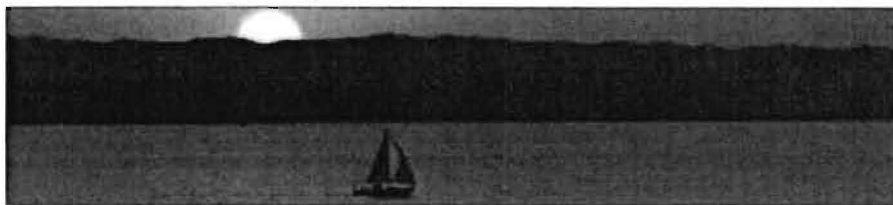
Gil Engineering Associates, Inc.

Adjusted Smithson Valley Middle School Water Usage

Month	Year	Gallons Used	Days Used	GPD	Adjusted for Actual per school day	notes
January	2006	98600	33	2988	4108	water leak
February	2006	73000	29	2517	3650	water leak
March	2006	384100	24	16004	25607	water leak
April	2006	10700	29	369	535	
May	2006	14500	41	354	453	
June	2006	2800	22	127	215	
July	2006	3500	27	130	194	
August	2006	4400	35	126	169	
November	2006	17400	31	561	791	
January	2007	19500	37	527	696	
February	2007	15100	31	487	686	
March	2007	14500	33	439	604	
May	2007	20100	34	591	804	
June	2007	9200	32	288	400	
July	2007	8900	28	318	468	
September	2007	19100	34	562	764	
October	2007	21600	30	720	1029	
Average				400	558	



CANYON LAKE WATER SERVICE COMPANY



- » [CLWSC Home](#)
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- » [Customer Service](#)
- » [Developers/Contractors](#)
- » [Billing Information](#)
- [How to Read Your Bill](#)
- [Payment Policies](#)
- [Billing Problems](#)
- [On-Line Payments](#)
- » [Service Interruptions](#)
- » [General Information](#)
- » [Water Quality](#)
- » [Rates / Regulations](#)
- » [Community Investment](#)
- » [Canyon Lake](#)
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How to Read Your Bill

ACCOUNT NUMBER 1000123 ¹	DATE BILL MAILED 7/28/06 ²	RETURN THIS STUB WITH PAYMENT TO: CANYON LAKE WATER SERVICE COMPANY P.O. BOX 1687 CANYON LAKE, TX 78133 (830) 964-2166		<small>PREPARED BY FIRST CLASS MAIL US POSTAGE PAID PERMIT #120 NEW BRUNSWICK, NJ</small>
PRESENT READING 195000 ³	SERVICE FROM 6/21/06 ⁴			
PREVIOUS READING 193500 ⁵	SERVICE TO 7/19/06 ⁶			
UNITS USED 1500 ⁷	DAYS USED 28 ⁸	10000123 ¹ 08/15/06 ⁹ 34.60 ¹⁰ 29.60 ¹¹		
WATER TCEQ WATER SUPPLY	28.10 ¹² 0.28 ¹³ 1.22 ¹⁴	***DISCONNECT DATE 26TH OF AUG 06*** ¹⁶		
08/15/06 ⁹	29.60 ¹¹ 34.60 ¹⁰	CLWSC CUSTOMER¹⁷ P.O. BOX 1234 CANYON LAKE, TX 78133		
17500 FM 306 ¹⁵				

1. Account number (8 Digits)
2. Date bill was mailed
3. Current meter reading
4. Service from (date)
5. Previous meter reading
6. Service to (date)
7. Units used (measured in gallons)
8. Days used
9. Due Date
10. Amount due if not paid by the due date
11. Amount due by due date
12. Meter surcharge plus water usage computed at the rate code
13. Texas commission on environmental quality
14. Raw water charge
15. Service address
16. Date service will be interrupted if bill is not paid
17. Address bill is mailed to

FILE COPY

KEEP THIS STUB
FOR YOUR RECORDS

ACCOUNT NUMBER 00002857	DATE BILL MAILED 01/30/06
PRESENT READING 631000	SERVICE FROM 12/22/05
PREVIOUS READING 532400	SERVICE TO 01/24/06
UNITS USED 98800	DAYS USED 33
DESCRIPTION	AMOUNT
WATER	636.35
TCEQ	3.18
WATER SUPPLY	79.87
199-51-6259-01-041-699-069	
V 713.86	
R02-1-06	
CURRENT DUE DATE 02/15/06	AMOUNT DUE 724.40
AMOUNT DUE AFTER DUE DATE 724.40	

RETURN THIS STUB WITH PAYMENT TO:
CANYON LAKE WATER SUPPLY CORPORATION
P.O. BOX 1607
CANYON LAKE, TX 78133
(830) 964-2188

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PERMIT #139
NEW BRAUNFELS, TX



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE AFTER DUE DATE	AMOUNT DUE BY DUE DATE
00002857	02/15/06	724.40	719.40

DISCONNECT DATE 26TH OF FEB 06
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
278 LOOP 337
CANYON LAKE, TX 78130

SERVICE ADDRESS 311

KEEP THIS STUB
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1-06

FILE COPY

00002857	02/27/06
704000	01/24/06
631000	02/22/06
73000	29
DESCRIPTION	AMOUNT
WATER	565.95
TCEQ	2.83
WATER SUPPLY	59.13
177-51-6257-01-041-699-069	
V 71386	
RD 3-2-06	
CURRENT BILL DUE DATE	03/15/06
AMOUNT DUE AFTER DUE DATE	627.91

SERVICE ADDRESS
FM 311
KEEP THIS STUB
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ACCOUNT NUMBER	DUE DATE	AMOUNT DUE	AMOUNT PAID
00002857	03/15/06	632.91	627.91

DISCONNECT DATE 26TH OF MAR 06
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
278 LOOP 337
CANYON LAKE, TX 78130

2-06

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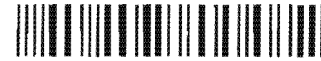
ACCOUNT NUMBER		00002857	
DATE DUE		03/30/06	
CURRENT READING		88100	
SERVICE FROM		02/22/06	
PREVIOUS READING		704000	
SERVICE TO		03/18/06	
UNITS USED		384100	
DAYS USED		24	
DESCRIPTION		AMOUNT	
WATER		1,421.48	
TCEQ		7.11	
WATER SUPPLY		311.12	
CURRENT BILL DUE DATE		04/15/06	
AMOUNT DUE AFTER DUE DATE		1,744.71	

177-51-6259-01-041-699-067
V 71386
RD 4-4-06

SERVICE ADDRESS
FM 311

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FILE COPY
CANYON LAKE WATER SUPPLY CORPORATION
CANYON LAKE, TX 78133
CITY OF CANYON LAKE
CITY OF CANYON LAKE



ACCOUNT NUMBER	DATE DUE	AMOUNT DUE	AMOUNT PAID
00002857	04/15/06	1,744.71	1,739.71

DISCONNECT DATE 26TH OF APR 06
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY
OFFICE CLOSED 04/14/06

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
278 LOOP 337
CANYON LAKE, TX 78130

3.00

KEEP THIS STUB
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KEEP THIS STUB
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ACCOUNT NUMBER	DATE BILL MAILED
00002857	04/27/06
PRESENT READING	SERVICE FROM
98800	03/18/06
PREVIOUS READING	SERVICE TO
88100	04/16/06
UNITS USED	DAYS USED
10700	29
DESCRIPTION	AMOUNT
WATER	398.20
TCEQ	1.99
WATER SUPPLY	8.67
CURRENT BILL DUE DATE	AMOUNT DUE BY DUE DATE
05/15/06	408.86
AMOUNT DUE AFTER DUE DATE	413.86

SERVICE ADDRESS:
FM 311

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FOR YOUR RECORDS

RETURN THIS STUB WITH PAYMENT TO:
CANYON LAKE WATER SUPPLY CORPORATION
P.O. BOX 1687
CANYON LAKE, TX 78133
(830) 964-2166

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ACCOUNT NUMBER	DUE DATE	AMOUNT DUE SET BY DUE DATE	AMOUNT DUE BY DUE DATE
00002857	05/15/06	413.86	408.86

DISCONNECT DATE 26TH OF MAY 06
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY
OFFICE CLOSED MAY 29, 2006

RETURN SERVICE REQUESTED

199-51-6259-01-041-699-069

COMAL ISD SMITHSON VALLEY MIDDLE
278 LOOP 337
CANYON LAKE, TX 78130

4-06

00002857		06/29/06	
117100		05/27/06	
PREVIOUS READING		DATE	
113300		06/18/06	
UNITS USED		DAYS USED	
3800		22	
DESCRIPTION		AMOUNT	
WATER		382.50	
TCEQ		3.83	
WATER SUPPLY		3.08	
UN# 71384 19951325901011699021 7-12-06			
CURRENT BILL DUE DATE		DUE DATE	
07/15/06		389.41	
AMOUNT DUE AFTER DUE DATE		394.41	

SERVICE ADDRESS:
FM 311

SERVICE ADDRESS: 1081 SATTLER RD

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ACCOUNT NUMBER	DUE DATE	BALANCE	PAYMENT
00002857	07/15/06	394.41	389.41

DISCONNECT DATE 26TH OF JUL 06
 PAYMENT RECEIVED AFTER 4.30 PM POST NEXT DAY
 THE OFFICE WILL BE CLOSED 7/4/06

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
 278 LOOP 337
 CANYON LAKE, TX 78130

ACCOUNT NUMBER	DATE BILL MAILED
00002857	07/28/06
PRESENT READING	SERVICE FROM
120600	06/18/06
PREVIOUS READING	SERVICE TO
117100	07/15/06
UNITS USED	DAYS USED
3500	27
DESCRIPTION	AMOUNT
WATER	381.83
TCEQ	3.82
WATER SUPPLY	2.84
CURRENT BILL DUE DATE	AMOUNT DUE
08/15/06	388.49
AMOUNT DUE AFTER DUE DATE	393.49

SERVICE ADDRESS:
FM 311

RETURN THIS SLIP WITH PAYMENT TO:
CANYON LAKE WATER SERVICE COMPANY
P.O. BOX 1687
CANYON LAKE, TX 78133
(830) 964-2166

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PERMIT #139
NEW BRAUNFELS, TX



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE AFTER DUE DATE	AMOUNT PAID
00002857	08/15/06	393.49	388.49

***DISCONNECT DATE 26TH OF AUG 06**
PAYMENT RECEIVED AFTER 4.30 PM POST NEXT DAY

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
278 LOOP 337
CANYON LAKE, TX 78130

V# 71386

19951625901041699069

ACCOUNT NUMBER	DATE BILL MADE
00002857	08/30/06

RETURN THIS SLIP WITH PAYMENT TO
CANYON LAKE WATER SERVICE COMPANY

DATE RECEIVED	BY

FILE COPY

ACCOUNT NUMBER	DATE BILL MADE
00002857	08/30/06
PRESENT READING	SERVICE FROM
125000	07/15/06
PREVIOUS READING	SERVICE TO
120600	08/19/06
UNITS USED	DAYS USED
4400	35
DESCRIPTION	AMOUNT
WATER	383.85
TCEQ	3.84
WATER SUPPLY	3.56
V# 71386 19951627901041679069 (6)	
CURRENT BILL DUE DATE	AMOUNT DUE
09/15/06	391.25
AMOUNT DUE AFTER DUE DATE	AMOUNT DUE
	396.25

RETURN THIS SLIP WITH PAYMENT TO
CANYON LAKE WATER SERVICE COMPANY
PO BOX 1387
CANYON LAKE, TX 78133
(330) 964-2168

DATE RECEIVED	BY



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE	AMOUNT DUE
00002857	09/15/06	396.25	391.25

DISCONNECT DATE 26TH OF SEP 06
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY
THE OFFICE WILL BE CLOSED SEPTEMBER 4, 2006.

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
278 LOOP 337
CANYON LAKE, TX 78130

SERVICE ADDRESS
FM 311

ACCOUNT NUMBER	00002857	SERVICE TO	11/29/06
PRESERVE READING	174900	SERVICE FROM	10/21/06
PREVIOUS READING	157500	SERVICE TO	11/21/06
UNITS USED	17400	DAYS USED	31
DESCRIPTION	AMOUNT		
WATER	414.95		
TCEQ	4.15		
WATER SUPPLY	14.09		
CURRENT BILL DUE DATE	12/15/06		
AMOUNT DUE AFTER DUE DATE	438.19		

CANYON LAKE WATER SERVICE COMPANY
P.O. BOX 1687
CANYON LAKE, TX 78133
(830) 964-2166

FIRST CLASS MAIL
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PERMIT #139
NEW BRAUNFELS, TX



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE AFTER DUE DATE	AMOUNT DUE BY DUE DATE
00002857	12/15/06	438.19	433.19 ✓

DISCONNECT DATE 26TH OF DEC 06
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY
THE CLWSC OFFICE WILL BE CLOSED 12/25/06.

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
278 LOOP 337
CANYON LAKE, TX 78130

SERVICE ADDRESS: FM 311

KEEP THIS STATEMENT
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V#71386

(6)

19951625901041799069

433.19

RECEIVED BY:

9.5 RECD

BUSINESS OFFICE

FILE COPY

123 QUEST AVE

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ACCOUNT NUMBER	DATE BILL MAILED
00002857	01/30/07
PRESENT READING	SERVICE FROM
204800	12/15/06
PREVIOUS READING	SERVICE TO
185300	01/21/07
UNITS USED	DAYS USED
19500	37
DESCRIPTION	AMOUNT
WATER	420.20
TCEQ	4.20
WATER SUPPLY	15.80
<p>V# 71386</p> <p>19981625901041799069</p> <p>(62)</p>	
CURRENT BILL DUE DATE	AMOUNT DUE BY DUE DATE
02/15/07	440.20
AMOUNT DUE AFTER DUE DATE	445.20 ✓

SERVICE ADDRESS: FM 311

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CANYON LAKE WATER SERVICE COMPANY
P.O. BOX 1687
CANYON LAKE, TX 78133
(830) 964-2166

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PERMIT #139
NEW BRAUNFELS, T.



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE AFTER DUE DATE	AMOUNT DUE BY DUE DATE
00002857	02/15/07	445.20	440.20

DISCONNECT DATE 26TH OF FEB 07
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
278 LOOP 337
CANYON LAKE, TX 78130

ACCOUNT NUMBER 00002857	DATE BILL MAILED 02/27/07
PRESENT READING 219900	SERVICE FROM 01/21/07
PREVIOUS READING 204800	SERVICE TO 02/21/07
UNITS USED 15100	DAYS USED 31
DESCRIPTION	AMOUNT
WATER	409.20
TCEQ	4.09
WATER SUPPLY	12.23
/# 71386	
1951625901041799069	
CURRENT BILL DUE DATE 03/15/07	AMOUNT DUE 425.52
AMOUNT DUE AFTER DUE DATE	430.52

SERVICE ADDRESS
PM 311

KEEP THIS STUB
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RETURN THIS STUB WITH PAYMENT TO:
CANYON LAKE WATER SERVICE COMPANY
P.O. BOX 1687
CANYON LAKE, TX 78133
(830) 964-2166



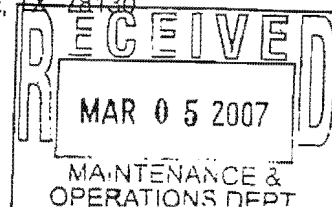
PRESORTED
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PERMIT #139
NEW BRAUNFELS, TX

ACCOUNT NUMBER	DUE DATE	AMOUNT DUE AFTER DUE DATE	AMOUNT DUE BY DUE DATE
00002857	03/15/07	430.52	425.52 ✓

DISCONNECT DATE 26TH OF MAR 07
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY
VISIT US AT WWW.CLWSC.COM

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
278 LOOP 337
CANYON LAKE, TX 78130



ACCOUNT NUMBER	DATE BILL MAILED
00002857	03/29/07
PRESENT READING	SERVICE FROM
234400	02/21/07
PREVIOUS READING	SERVICE TO
219900	03/26/07
UNITS USED	DAYS USED
14500	33
DESCRIPTION	AMOUNT

71386 WATER 407.70
 TCEQ 4.08
 WATER SUPPLY 11.75

199516259041 799069

CURRENT BILL DUE DATE	AMOUNT DUE BY DUE DATE
04/15/07	423.53
AMOUNT DUE AFTER DUE DATE	428.53
SERVICE ADDRESS:	
MAINTENANCE	
KEEP THIS STUB FOR YOUR RECORDS	

RETURN THIS STUB WITH PAYMENT TO:
 CANYON LAKE WATER SERVICE COMPANY
 P.O. BOX 1687
 CANYON LAKE, TX 78133
 (830) 964-2166

PRESORTED
 FIRST CLASS MAIL
 U.S. POSTAGE PAID
 PERMIT 1139
 NEW BRAUNFELS, TX



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE AFTER DUE DATE	AMOUNT DUE BY DUE DATE
00002857	04/15/07	428.53	423.53

DISCONNECT DATE 26TH OF APR 07
 PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY
 THE OFFICE WILL BE CLOSED APRIL 6, 2007.

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
 1404 IH 35 NORTH
 NEW BRAUNFELS, TX 78130

FILE COPY

ACCOUNT NUMBER	DATE BILL MAILED
00002857	05/30/07
PRESENT READING	SERVICE FROM
264400	04/14/07
PREVIOUS READING	SERVICE TO
244300	05/18/07
UNITS USED	DAYS USED
20100	34
DESCRIPTION	AMOUNT
WATER	421.70
TCEQ	4.22
WATER SUPPLY	16.28
<i>V# 71386</i> <i>19951625901041799069</i>	
CURRENT BILL DUE DATE	AMOUNT DUE
06/15/07	442.20
AMOUNT DUE AFTER DUE DATE	447.20

RETURN THIS STUB WITH PAYMENT TO:
CANYON LAKE WATER SERVICE COMPANY
 P.O. BOX 1687
 CANYON LAKE, TX 78133
 (830) 964-2166

PRESORTED
 FIRST CLASS MAIL
 U.S. POSTAGE PAID
 PERMIT #139
 NEW BRAUNFELS, TX



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE AFTER DUE DATE	AMOUNT DUE BY DUE DATE
00002857	06/15/07	447.20	442.20

DISCONNECT DATE 26TH OF JUN 07
 PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
 1404 IH 35 NORTH
 NEW BRAUNFELS, TX 78130

SERVICE ADDRESS:
 FM 311
 KEEP THIS STUB
 FOR YOUR RECORDS

KEEP THIS STUB
 FOR YOUR RECORDS

FILE COPY

ACCOUNT NUMBER	DATE BILL MAILED
00002857	06/28/07
PRESENT READING	SERVICE FROM
273600	05/18/07
PREVIOUS READING	SERVICE TO
264400	06/19/07
UNITS USED	DAYS USED
9200	32
DESCRIPTION	AMOUNT

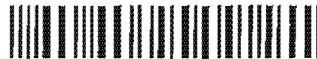
WATER 394.65
TCEQ 3.95
WATER SUPPLY 7.45
V# 71386
19951625901799069

CURRENT BILL DUE DATE	AMOUNT DUE BY DUE DATE
07/15/07	406.05
AMOUNT DUE AFTER DUE DATE	411.05

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JUL 02 2007
PM 317
TK-MFO
KEEP THIS STUB FOR YOUR RECORDS
OPERATIONS DEPT.

RETURN THIS STUB WITH PAYMENT TO:
CANYON LAKE WATER SERVICE COMPANY
P.O. BOX 1687
CANYON LAKE, TX 78133
(830) 964-2166

PRESORTED
FIRST CLASS MAIL
U.S. POSTAGE PAID
PERMIT #139
NEW BRAUNFELS, TX



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE AFTER DUE DATE	AMOUNT DUE BY THIS DATE
00002857	07/15/07	411.05	406.05

DISCONNECT DATE 28TH OF JUL 07
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY
THE CLWSC OFFICE WILL BE CLOSED JULY 4, 2007.

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
1404 IH 35 NORTH
NEW BRAUNFELS, TX 78130

FILE COPY

ACCOUNT NUMBER	DATE BILL MAILED
00002857	07/30/07
PRESENT READING	SERVICE FROM
282500	06/19/07
PREVIOUS READING	SERVICE TO
273600	07/17/07
UNITS USED	DAYS USED
8900	28
DESCRIPTION	AMOUNT
WATER	393.98
TCEQ	3.94
WATER SUPPLY	7.21
V# 71386 19961625901041799069	
CURRENT BILL DUE DATE	AMOUNT DUE BY DUE DATE
08/15/07	405.13
AMOUNT DUE AFTER DUE DATE	410.13

RETURN THIS STUB WITH PAYMENT TO:
CANYON LAKE WATER SERVICE COMPANY
P.O. BOX 1687
CANYON LAKE, TX 78133
(830) 964-2166

PRESORTED
FIRST CLASS MAIL
U.S. POSTAGE PAID
PERMIT 2139
NEW BRAUNFELS, TX



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE AFTER DUE DATE	AMOUNT DUE BY DUE DATE
00002857	08/15/07	410.13	405.13

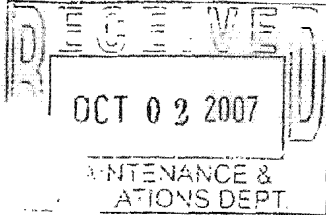
DISCONNECT DATE 26TH OF AUG 07
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY
WWW.CLWSC.COM

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
1404 IH 35 NORTH
NEW BRAUNFELS, TX 78130

SERVICE ADDRESS:

FM 311
KEEP THIS STUB
FOR YOUR RECORDS



ACCOUNT NUMBER	DATE BILL MAILED
00002857	09/27/07
PRESENT READING	SERVICE FROM
314800	08/15/07
PREVIOUS READING	SERVICE TO
295700	09/18/07
UNITS USED	DAYS USED
19100	34
DESCRIPTION	AMOUNT
WATER	419.20
TCEQ	4.19
WATER SUPPLY	15.47
V# 71386 199516259 01041899067	
CURRENT BILL DUE DATE	BY DUE DATE
10/15/07	438.86
AMOUNT DUE AFTER DUE DATE	443.86

RETURN THIS STUB WITH PAYMENT TO:
CANYON LAKE WATER SERVICE COMPANY
P.O. BOX 1687
CANYON LAKE, TX 78133
(830) 964-2166

PRESORTED
FIRST CLASS MAIL
U.S. POSTAGE PAID
PERMIT #139
NEW BRAUNFELS, TX



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE AFTER DUE DATE	AMOUNT DUE BY DUE DATE
00002857	10/15/07	443.86	438.86

DISCONNECT DATE 26TH OF OCT 07
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY
VISIT US AT WWW.CLWSC.COM

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
1404 IH 35 NORTH
NEW BRAUNFELS, TX 78130

SERVICE ADDRESS:

FM 311
KEEP THIS STUB
FOR YOUR RECORDS

ACCOUNT NUMBER	DATE BILL MAILED
00002857	10/31/07
PRESENT READING	SERVICE FROM
336400	09/18/07
PREVIOUS READING	SERVICE TO
314800	10/18/07
UNITS USED	DAYS USED
21600	30
DESCRIPTION	AMOUNT
WATER	425.45
TCEQ	4.25
WATER SUPPLY	17.50
19951625901041899069 11/13/07	
CURRENT BILL DUE DATE	AMOUNT DUE BY DUE DATE
11/15/07	447.20
AMOUNT DUE AFTER DUE DATE	452.20

RETURN THIS STUB WITH PAYMENT TO:
CANYON LAKE WATER SERVICE COMPANY
P.O. BOX 1687
CANYON LAKE, TX 78133
(830) 964-2166

PRESORTED
FIRST CLASS MAIL
U.S. POSTAGE PAID
PERMIT #139
NEW BRAUNFELS, TX



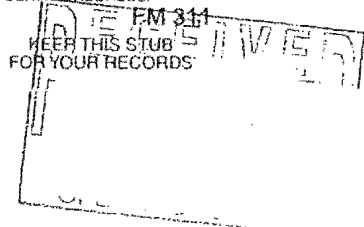
ACCOUNT NUMBER	DUE DATE	AMOUNT DUE AFTER DUE DATE	AMOUNT DUE BY DUE DATE
00002857	11/15/07	452.20	447.20

DISCONNECT DATE 26TH OF NOV 07
PAYMENT RECEIVED AFTER 4:30 PM POST NEXT DAY
CLWSC WILL BE CLOSED 11/22/07 & 11/23/07

RETURN SERVICE REQUESTED

COMAL ISD SMITHSON VALLEY MIDDLE
1404 IH 35 NORTH
NEW BRAUNFELS, TX 78130

SERVICE ADDRESS:





88860

September 8, 2006

RECEIVED
OCT 17 2006
COUNTY ENGINEER

Mr. Thomas Hornseth, P.E.
County Engineer
195 David Jonas Drive
New Braunfels, Texas 78132

**Re: Startzville Elementary
Off-Site Sewage Facilities Permit
Historical Waste Water Rates**

Dear Mr. Hornseth,

River City Engineering (RCE) received historical waste water rates from Comal Independent School District (CISD) for two schools with student populations, student ages and school facilities comparable to Startzville Elementary School. The two schools are Rebecca Creek Elementary School (RCES) and Hoffman Lane Elementary School (HLES).

The waste water rate data was analyzed and monthly rates were as follows:

Table 1- RCES Monthly Waste Water Production

		Total Gallons	Total Days	Historical WW Production (GPD)	Daily Student WW Production (gal/day/student)	Projected Total GPD (based on 800 students)
2005	January		31			
	February	46500	28	1661	2.8195	2256
	March	55918	31	1804	3.0625	2450
	April	77005	30	2567	4.3580	3486
	May	81374	31	2625	4.4566	3565
	June	13190	30	440	0.7465	597
	July	10807	31	349	0.5422	434
	August	42472	31	1370	2.1307	1705
	September	83611	30	2787	4.3344	3468
	October	60741	31	1959	3.0473	2438
	November	63724	30	2124	3.3035	2643
	December	62882	31	2028	3.1547	2524
2006	January	71135	31	2295	3.5687	2855
	February	50186	28	1792	2.7875	2230
	March	51662	31	1667	2.5918	2073
	April	60303	30	2010	3.1261	2501
	May	63539	31	2050	3.1876	2550
	June	18853	30	628	0.9773	782
	July	11126	31	359	0.5582	447
	August	43241	31	1395	2.1693	1735
Largest Projected Total						3565

Table 2- HLES Monthly Wastewater Production

		Total Gallons	Total Days	Historical WW Production (GPD)	Daily Student WW Production (gal/day/student)	Projected Total GPD (based on 800 students)
2005	January	72610	31	2342	3.7778	3022
	February	56434	28	2016	3.2508	2601
	March	96120	31	3101	5.0010	4001
	April	77546	30	2585	4.1692	3335
	May	65672	31	2118	3.4189	2733
	June	13846	30	462	0.7444	596
	July	11776	31	380	0.5468	437
	August	68227	31	2201	3.1867	2533
	September	110481	30	3683	5.2989	4239
	October	79309	31	2558	3.8811	2945
	November	42464	30	1415	2.0368	1629
	December	69647	31	2247	3.2326	2586
2006	January	58857	31	1899	2.7318	2185
	February	22076	28	788	1.1344	908
	March	16667	31	538	0.7736	619
	April	64800	30	2160	3.1079	2486
	May	80628	31	2601	3.7423	2994
	June	15643	30	521	0.7503	600
	July	6029	31	194	0.2798	224
	August	39143	31	1263	1.8168	1453
Largest Projected Total						4239

The Projected Total was determined using the daily student waste water production and multiplying it by the maximum Startzville Elementary student capacity of 800 students.

$$RCES \text{ ProjectTotal} = 4.4566 \text{ gal / student / day} * 800 \text{ students} = 3565 \text{ gpd}$$

$$HLES \text{ ProjectTotal} = 5.2989 \text{ gal / student / day} * 800 \text{ students} = 4239 \text{ gpd}$$

The largest projected values for both schools were averaged to calculate a Startzville Elementary waste water peak design flow of 3902 gpd.

$$\text{Peakflow} = \frac{3565 \text{ gpd} + 4239 \text{ gpd}}{2} = 3902 \text{ gpd}$$

If you have any further questions, please do not hesitate to contact us.

Sincerely,



Stephen Hanz, P.E.

Cc: Dale Yates, CLWSC
Roy Linnartz, CISD

RECEIVED
OCT 17 2006
COUNTY ENGINEER

Pasted
8/1/74

PERMIT NO 3404

APPLICATION FOR SEPTIC TANK PERMIT
Comal County, Texas

(To be completed and submitted in Duplicate)

NAME and LOCATION of SUBDIVISION where Septic Tank is to be installed 9.M. 3

SMITHSON VALLEY HIGH SCHOOL

UNIT NO. _____ BLOCK NO. ACECAFE LOT NO. _____

Dimensions of Property: _____

Description of Structure
TRANS & SPEC 10
No. Bedrooms _____ No. Baths _____ Disposal _____ W. Machine _____

Size of Septic System BE FOLLOWING No. Feet Laterals COPY FILE
Gal. _____

Date 8/5/74

RAY ADVENTER & CO. INC.
Signature of Sanitary Facility Contractor

15327 SAN PEDRO
Address

C. S. D.
OWNER

Address _____

NOTE: For other information to be submitted in connection with this application, see the requirements outlined in Section VI, Texas Water Quality Board ORDER NO. 70-0730-12.

Approved _____ Date _____

Postel 10/11/82
FEE 10.00

COMAL COUNTY SANITATION DEPARTMENT

Remodel

RECEIPT NO. 45533

APPLICATION FOR HOUSEHOLD SEWAGE SYSTEM

NAME AND LOCATION OF PROPERTY WHERE SEWAGE SYSTEM IS TO BE INSTALLED:

Off of F/m 311

UNIT NO. BLOCK NO. LOT NO. STREET-ROAD NO.

DIMENSION OF PROPERTY PERCOLATION RESULTS ATTACHED

ZONE: RECHARGE RESTRICTED WATER QUALITY

DESCRIPTION OF STRUCTURE AND SYSTEM

NO. BEDROOMS NO. BATHROOMS DISPOSAL WASHING MACHINE

SIZE OF SEPTIC TANK NO. FEET LATERALS 5000 Sq. Ft. Lat

OTHER SYSTEM DATE: 8/14/80

Comal Independent School Dist
OWNER

RICHARD EOBLE
CONTRACTOR

ADDRESS

ADDRESS

ALL RECOMMENDATIONS ARE MINIMUM REQUIREMENTS AS PRESCRIBED BY THE "GUIDE TO THE DISPOSAL OF HOUSEHOLD SEWAGE", PUBLISHED BY THE TEXAS HEALTH DEPARTMENT, AUSTIN, TEXAS

NOTE: FOR THE INFORMATION TO BE SUBMITTED IN CONNECTION WITH THIS APPLICATION, SEE THE REQUIREMENTS OUTLINED IN THE CURRENT TEXAS WATER DEVELOPMENT BOARD RULES 156.20.05.001-.019 COMAL COUNTY RESOLUTION 74-R-10.

PERMIT NO. 45533

SEWAGE FACILITIES: LOCATION (SUBDIVISION) (STREET)

OWNER: ADDRESS

INSPECTED AND APPROVED BY: DATE:

PERMIT GRANTED FOR PERIOD OF DUE DATE:

TRANSFER OF PERMIT ONLY THRU COMAL COUNTY SANITATION DEPARTMENT BY NEW OWNER FOR REMAINING PERIOD OF PERMIT.

PERMITTED FOR

CONTRACTOR: _____ LOCATION _____
 OTHER SYSTEM _____ LOT NO. _____ BL. NO. _____ UNIT NO. _____
 TANK CAPACITY _____ TRENCH LENGTH _____ WIDTH _____

INSPECTORS GUIDE

TANK TYPE _____ OUTLET WATER TIGHT _____ TURNED DOWN _____

ABSORPTION TRENCH

LENGTH _____ 6" GRAVEL UNDER LINE _____ GRADE _____
 WIDTH _____ 2" GRAVEL ABOVE LINE _____ STEP PROPERLY
 CONST. _____

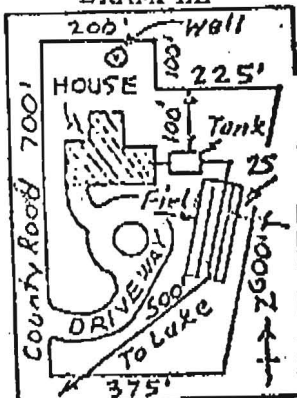
OTHER TYPE SYSTEM _____

SANITATION SAFETY:

() Distance from well, cisterns & pump section	TANK 50ft.	TRENCH 150 "	TIGHT LINE 10"
() STREAM & PONDS	75"	75"	Restricted Zone
() FOUNDATION WALL OF STRUCTURES	5"	15"	
() PROPERTY LINES	10"	10"	

SKETCH OF SYSTEM AND LAYOUT:

-- EXAMPLE --



Buddy Garcia, *Chairman*
Larry R. Soward, *Commissioner*
Bryan W. Shaw, Ph.D., *Commissioner*
Glenn Shankle, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 5, 2007

Mr. Victor Gil
Gil Engineering Associates, Inc.
506 E. Braker Lane
Austin, Texas 78753

Re: Edwards Aquifer, Comal County
NAME OF PROJECT: CISD Smithson Valley Middle School; Located on the west side of FM 311 north of FM 3159; Spring Branch, Texas
TYPE OF PLAN: Request for the Approval of a Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer;
Edwards Aquifer Protection Program ID No. 2718.00; Investigation No. 595954;
Regulated Entity No. RN101251981

Dear Mr. Gil:

We are in receipt of the additional information you have submitted on the above-referenced project for the CZP application and are in the process of technically reviewing the additional information. Before we can proceed with our review, the following comments relating to the application must be addressed.

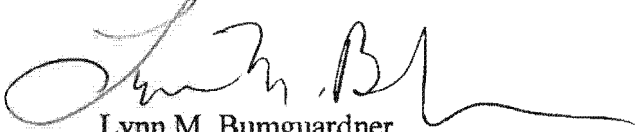
1. Determine how wastewater will be disposed of. If the on-site sewage facility (OSSF) will be permitted through the county, provide the suitability letter from the county stating the site is suitable for the use of an OSSF system. If permitting for the OSSF will be sought through the TCEQ, then amend Item 22, of TCEQ-10257, to state the name of the wastewater treatment plant (the school site) that will proposed for the site.
2. Provide details and specifications for the impermeable liner for the water quality basin. Refer to Section 3.4.2, Basin Lining Requirements, of the Edwards Aquifer Technical Guidance Manual (2005) for information on impermeable liners.

We ask that you submit one original and three copies of the amended materials to supplement the CZP application to this office by no later than **7 days from the date of this letter** to avoid denial of the plan. If the response to this notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application will be denied unless you provide written notification that the application is being withdrawn. Please note that the application fee will be forfeited if the plan is not withdrawn. If you have any questions or

Mr. Victor Gil
December 5, 2007
Page 2

require additional information, please contact Charly Fritz of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4065.

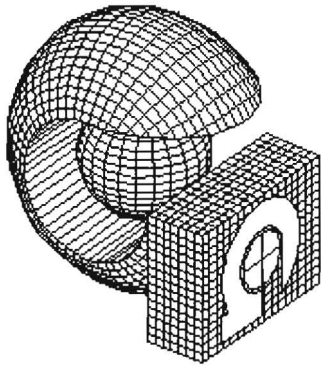
Sincerely,

A handwritten signature in black ink, appearing to read "Lynn M. Bumguardner", with a stylized flourish at the end.

Lynn M. Bumguardner
Water Section Work Leader
TCEQ San Antonio Regional Office

LMB/CEF/eg

fc:	Mr. Thomas Bloxham, Comal ISD	830-221-2001
	Mr. Victor Gil, P.E., Gil Engineering Associates, Inc.	512-835-4407



Gil Engineering Associates, Inc.

CONSULTING ENGINEERS

SURVEYORS

PLANNERS

BUILDING DESIGNERS

506 EAST BRAKER LANE AUSTIN, TEXAS 78753-2751 phone (512) 835-4203

fax (512) 835-4407

November 26, 2007

Texas Commission on Environmental Quality
Attn: Charlyne Fritz, Environmental Investigator
14250 Judson Road
San Antonio, Texas 78233-4480

RE: Comal ISD Smithson Valley Middle School
Contributing Zone Plan (CZP)

Dear Charly:

Please accept this as a comment response letter to the letter Dated November 6, 2007.

Comment 1

The USGS Quadrangle Map has been revised to include the scale of 1" =2000' as required by Item 6 of TCEQ-10257.

Comment 2

The Comal Independent school district is requesting that a variance or an exemption to this requirement be granted. The expansion for this CZP is a new library and facility area along with 3 science laboratories. I have attached a letter from Comal ISD stating a reduction in student population. Since Onsite sewage facilities are based on population there should not be an increase in the amount of sewage at the site. The existing on site sewage facility was permitted in 1976. Since that time modifications have been made to the existing facility. We are currently working with Comal ISD and Comal County to see if the existing facility currently meets or exceeds the 5000 Gallons per day limit. The school district is currently working with Comal County to get a proper sustainability letter from Comal County.

Comment 3

I have attached the soils map for the Middle School site. This site is on the BtD formation which is the Brackett-Rock outcrop Comfort Complex. The USDA Soil Survey has given this classification of soil a "very limited" rating for embankments, dikes and Levees. Although water quality basins do not require impermeable liners in the Contributing Zone I believe this water quality basin should have an impermeable liner. The Brackett portion of the soil is rated as a possible piping type of formation. I believe that there could be piping

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2007 NOV 27 AM 10:17
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SAN ANTONIO
REGION

of the of the storm water thru the bottom of the pond thereby reducing residence times in the basin. I do not know to what extent the rock will be fractured during excavation. With an impermeable liner residence times will not change over time and the treatment of the entire storm water volume will be possible thru the sand filter.

Comment 4

Provided the direction of storm water runoff from the new buildings on sheet CS1.01.

Comment 5

Silt fence is shown on sheet CS101 for the tennis court area and in the channelized areas around the building.

Comment 6

Provided sequence of activities attached to this letter with the amount of area disturbed by each activity.

Comment 7

Revised location of the spoils area so the basin outfall does not discharge into the spoils area.

Comment 8

Revised the direction of the flow arrows for the 18" RCP pipes on the Splitter Box Plan Detail.

If you need anything else please feel free to call.

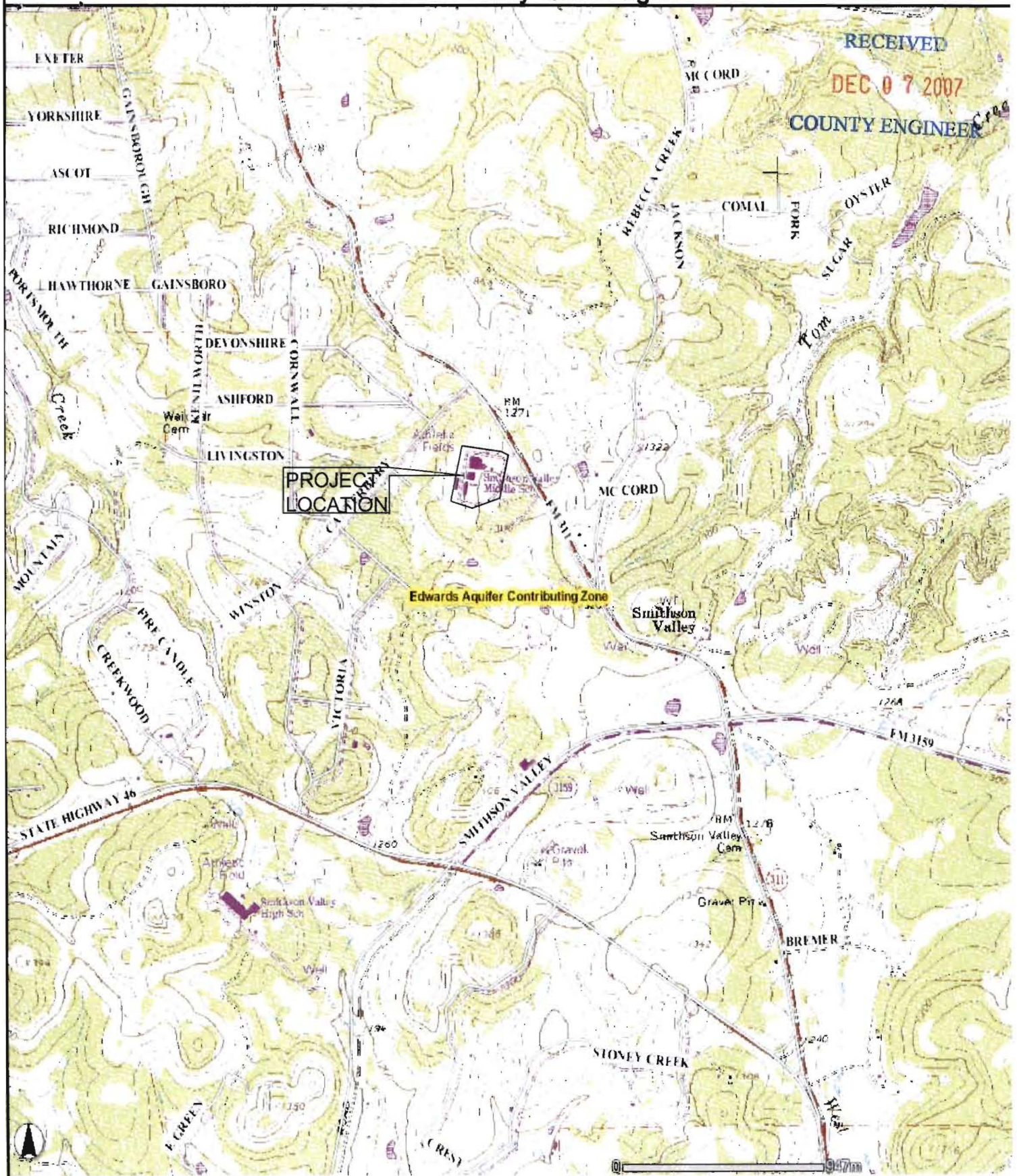
Sincerely,



Victor M. Gil, P.E., R.P.L.S.
Gil Engineering Associates, Inc.
VMG/mvg

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Smithson Valley Quadrangle



Edwards Aquifer Contributing Zone

ATTACHMENT B

USGS/ Edwards Recharge Zone Map
Scale 1:24,000 = 1" = 2,000'



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COUNTY ENGINEER

November 9, 2007

Thomas H. Hornseth, P.E.
Comal County Engineer
195 David Jonas Drive
New Braunfels, Texas 78132

RE: Smithson Valley Middle School student body projections

Dear Mr. Hornseth,

The construction project that we are doing at Smithson Valley Middle School is a renovation and upgrade of the facility. It is not intended as an expansion or to add more students to the campus. The majority of the work is replace/upgrade Library and science labs and to make a more usable office area. We are following Texas Education Agency recommendations for these improvements.

In fact, our current projections show that the student body at SVMS will be reduced approximately 230 students next year with the opening of our new middle school, Mountain Valley Middle School in Sattler.

We appreciate any help from Comal County in the permit process with TCEQ. Our schedule is very tight and we need to deliver these improvements by next fall.

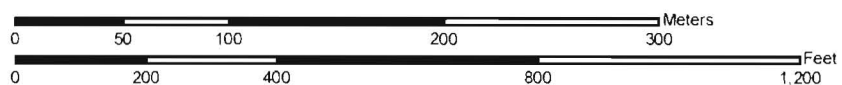
Sincerely,

Thomas Bloxham
Assistant Superintendent

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DEC 07 2007

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Description

Embankments, dikes, and levees are raised structures of soil material, generally less than 20 feet high, constructed to impound water or to protect land against overflow. Embankments that have zoned construction (core and shell) are not considered. The soils are rated as a source of material for embankment fill. The ratings apply to the soil material below the surface layer to a depth of about 5 feet. It is assumed that soil layers will be uniformly mixed and compacted during construction.

The ratings do not indicate the suitability of the undisturbed soil for supporting the embankment. Soil properties to a depth even greater than the height of the embankment can affect performance and safety of the embankment. Generally, deeper onsite investigation is needed to determine these properties.

Soil material in embankments must be resistant to seepage, piping, and erosion and have favorable compaction characteristics. Unfavorable features include less than 5 feet of suitable material and a high content of stones or boulders, organic matter, or salts or sodium. A high water table affects the amount of usable material. It also affects trafficability.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher


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DEC 07 2007

COUNTY ENGINEER

MAP LEGEND

Area of Interest (AOI)


 Area of Interest (AOI)

Soils

 Soil Map Units

Soil Ratings

 Very limited

 Somewhat limited

 Not limited

Not rated or not available

Political Features

Municipalities

 Cities

 Urban Areas

Water Features

 Oceans

 Streams and Canals

Transportation

 Rails

Roads

 Interstate Highways

 US Routes

State Highways

 Local Roads

Other Roads

MAP INFORMATION

Original soil survey map sheets were prepared at publication scale. Viewing scale and printing scale, however, may vary from the original. Please rely on the bar scale on each map sheet for proper map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: UTM Zone 14N

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Comal and Hays Counties, Texas
Survey Area Data: Version 5, Jan 3, 2007

Date(s) aerial images were photographed: 1995

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



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DEC 07 2007

COUNTY ENGINEER

SEQUENCE OF CONSTRUCTION

- A. After the acquisition of all required permits, notify the environmental inspector for a pre-construction conference 3 days in advance.
- B. Install the temporary erosion / sedimentation controls. Erosion / Sedimentation controls rock berm, silt fence, and construction entrance, will be installed according to the plan. (5% site disturbed)
- C. Rough grade the water quality pond as a sediment trap. (15% site disturbed)
- D. Demolition and rough grading.(50% site disturbed)
- E. Construction of building and appurtenances. (Included in D.)
- F. Construction of storm water detention/filtration system. (Included in C.)
- G. Finish grading. Install inlet silt protection for the water quality pond after the inlet is constructed. (Included in D.)
- H. Placement of parking surface matching new grade. (Included in D.)
- I. Install permanent erosion controls. (50% site disturbed)
- J. Obtain concurrence letter from engineer, and the final inspection will be scheduled upon receipt of the letter.
- K. Remove temporary erosion controls after acceptance of the permanent controls.

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DEC 07 2007
COUNTY ENGINEER

November 20, 2007

M&S Engineering, Ltd.
6477 F.M. 311, P.O. Box 970
Spring Branch, Texas 78070

Attn: Mr. Keith Strimple, P.E.

Re: Geologic Assessment-Feature S-40 Reassessment Explanation
Vintage Oaks at the Vineyard Unit 1 Approximate 389-Acre Tract
Highway 46
Comal County, Texas
PSI Project No. PO-435-6G010

2007 NOV 27 PM 2:31

"RECEIVED TCEQ"
SAN ANTONIO
REGION

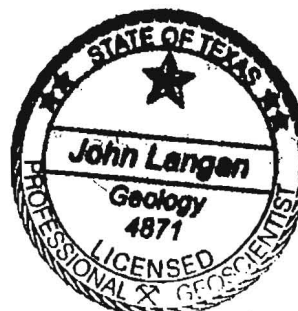
Dear Mr. Strimple:

Professional Service Industries, Inc. (PSI) typically employs a team of geoscientists on projects in excess of 100 acres. Our original assessment had feature S-40 mapped as a "zone" which extended from a drainage feature southward, in a topographically upgradient direction, to include a cave feature (S-39). This report for Unit 1 was submitted rather hastily, as PSI continued work on the larger project on additional acreage in this area. Subsequent "peer review" and re-evaluation of this feature indicated that our original "zone" designation was erroneous, and therefore the feature extent was re-mapped to be more representative of the true extent of the "zone" designation.

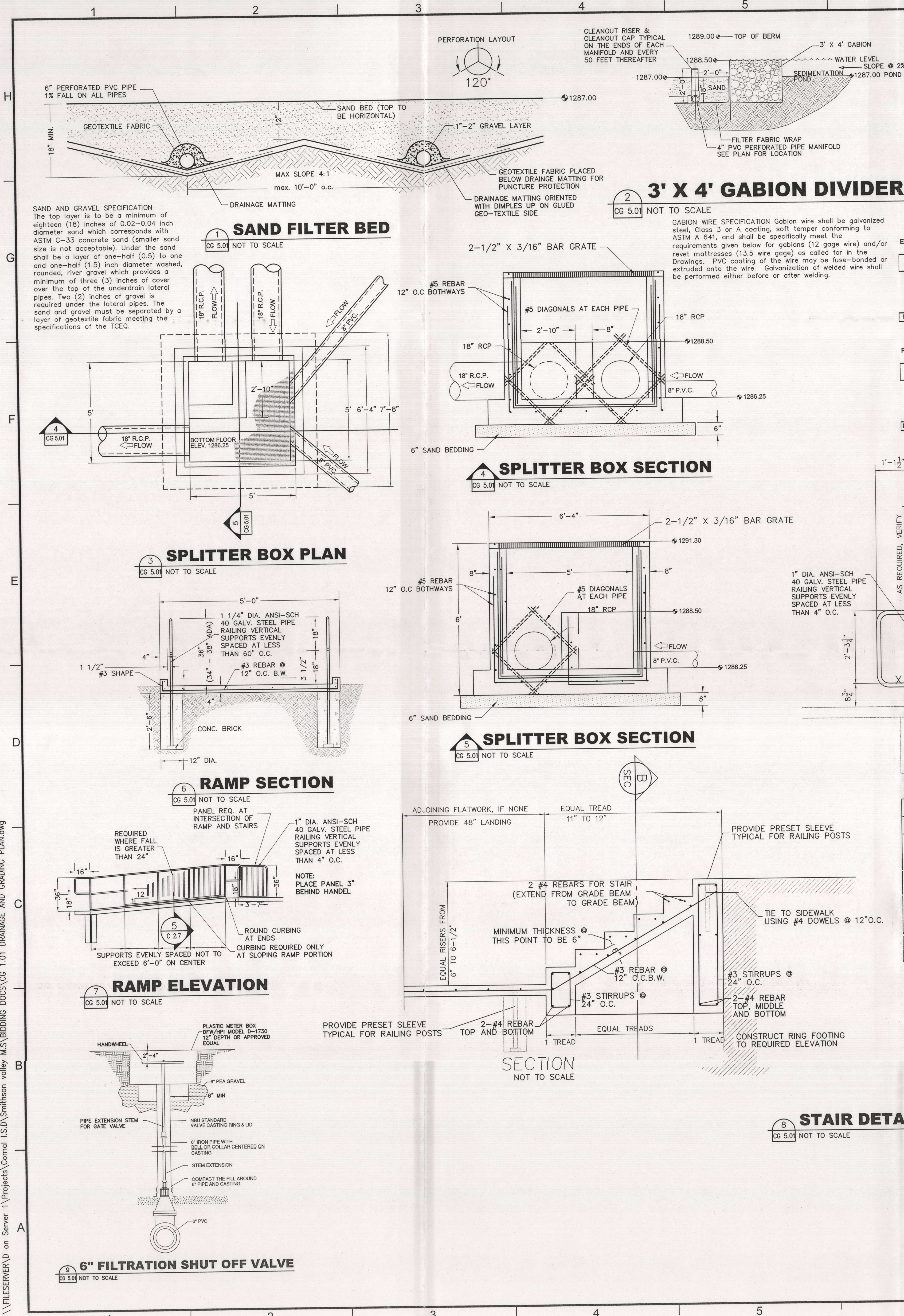
If you have any questions, or need additional information, please do not hesitate to contact our office at (210) 342-9377.

Respectfully submitted,
PROFESSIONAL SERVICE INDUSTRIES, INC.


John Langan
Environmental Department Manager



JL 11/20/07



Time of Concentration (Existing)

Area No.	Sheet Flow				Shallow Concentrated Flow				Total Calculated Tc (min)	Tc Value Used (min)
	Length (ft)	Manning's n	Slope (ft/ft)	Tc (min)	Length (ft)	Manning's n	Slope (ft/ft)	Tc (min)		
1	100	0.1	0.01	2.38	200	0.1	0.01	3.33	5.71	5.71

Time of Concentration (Proposed)

Area No.	Sheet Flow				Shallow Concentrated Flow				Total Calculated Tc (min)	Tc Value Used (min)
	Length (ft)	Manning's n	Slope (ft/ft)	Tc (min)	Length (ft)	Manning's n	Slope (ft/ft)	Tc (min)		
1	10	0.02	0.01	0.05	100	0.1	0.01	1.67	1.71	5.00

Manning's n for Overland Flow and Shallow Concentrated Flow

n	Condition
0.016	Concrete (Rough or Smoothed Finish)
0.02	Asphalt
0.1	0 - 50% vegetated ground cover, remaining bare soil or rock outcrops, minimum brush or tree cover
0.2	50% to 90% vegetated ground cover, remaining soil or rock outcrops, minimum - medium brush or tree cover
0.3	100% vegetated ground cover, medium - dense grassed (lawns, grassy fields, etc.) medium brush or tree cover
0.6	100% vegetated ground cover with areas of heavy vegetation (parks, green belts, riparian areas, etc.) dense undergrowth with medium to heavy tree growth

Existing Flow Determination

Description	Return Period					
	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
Composite "C"	0.29	0.32	0.35	0.39	0.42	0.46
Intensity (in/hr)	5.90	7.61	9.24	11.12	12.78	14.68
Area (ac.)	0.387	0.387	0.387	0.387	0.387	0.387
Existing Flow (cfs)	0.86	0.94	1.25	1.68	2.07	2.61

Proposed Flow Determination

Description	Return Period					
	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
Composite "C"	0.75	0.80	0.83	0.88	0.92	0.97
Intensity (in/hr)	6.10	7.88	9.61	11.58	13.31	15.30
Area (ac.)	0.387	0.387	0.387	0.387	0.387	0.387
Proposed Flow (cfs)	1.77	2.44	3.08	3.94	4.73	5.74

Composite C for Existing Conditions

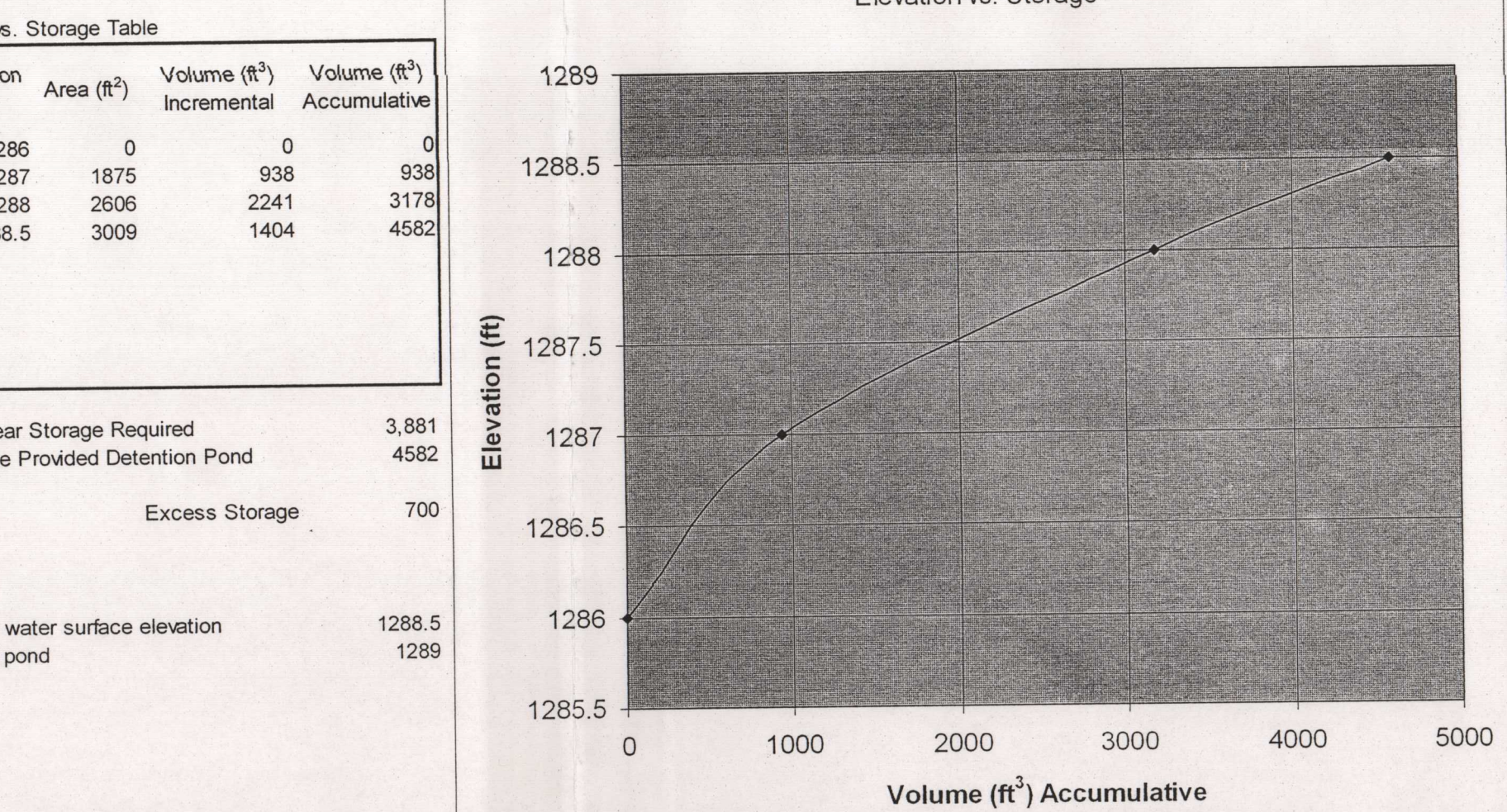
Character of Surface	Return Period						Area (sf)	Area (ac)
	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year		
Existing Developed	0.73	0.77	0.81	0.86	0.9	0.95	1	0.00
Asphaltic	0.75	0.8	0.83	0.88	0.92	0.97	1	0.00
Concrete & Buildings							0	0.00
Existing Undeveloped							0	0.00
Good Condition							16,836	0.39
Average, 2-7%	0.29	0.32	0.35	0.39	0.42	0.46	16,836	0.39

Composite C for Proposed Conditions

Character of Surface	Return Period						Area (sf)	Area (ac)
	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year		
Proposed Developed	0.73	0.77	0.81	0.86	0.9	0.95	1	0.00
Asphaltic	0.75	0.8	0.83	0.88	0.92	0.97	1	0.00
Concrete & Buildings							0	0.00
Proposed Undeveloped							100%	0.00
Good Condition							16,836	0.39
Average, 2-7%	0.29	0.32	0.35	0.39	0.42	0.46	16,836	0.39

Modified Rational Method

Description	Return Period					
	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
Critical Storm duration (min)	31.25	30.59	26.53	24.99	24.06	23.06
Calculated detention volume (cf)	828	1,066	1,191	1,426	1,642	1,885
Cumulative precipitation for storm duration (in)	1.49	1.88	2.06	2.40	2.70	3.02
Cumulative precipitation for 3 hour storm (in)	2.45	3.27	3.84	4.67	5.40	6.23
Required Storage volume (cf)	1,366	1,892	2,222	2,781	3,291	3,881



Required Sedimentation Pond Volume

Parameter	Value
Capture Rate (in)	1.500
Capture Area (sf)	28,597
Water Quality Volume WQV (cf)	3,575
120% of WQV (cf)	4,290

Minimum Surface Areas

Parameter	Value
Minimum Area of Sedimentation Basin Required	357 sf
Minimum Area of Filtration Basin Required	199 sf

Sedimentation Basin Storage Provided

Depth vs. Storage Table	Value
100 Year Storage Required	3,881
Storage Provided Detention Pond	4,582
Excess Storage	700

Filtration Basin Storage Provided

Depth vs. Storage Table	Value
100 Year Storage Required	3,836
Filtration Basin Volume Provided (CF)	765
Total (Sedimentation + Filtration) Volume Provided (CF)	4,601

Drainage Area Data

Parameter	Value
Drainage Area to Control	0.656 acres
Drainage Area Impervious Cover	100.0%
Capture Depth (0.5" to 1.0")	1.500 in.

Water Quality Control Calculations

Parameter	Value
Site Area Draining to Pond	0.656 acres
Total Area Draining to the Pond	0.656 acres
Design Peak Flow Rate	2.61 CFS
Water Quality Volume (CF) Area	4,290
Sedimentation/Filtration Pond Depth	2.5 FT
Sedimentation Pond Area	429
Sedimentation Pond Volume Min 20%	2,546
Filtration Pond Area As	199
Filtration Pond Volume	765
Water Quality Elevation	1288.50
Elevation of Splitter/Overflow Weir	1288.50
Height of Gabion Wall	1286.45
Length of Splitter Weir	5.00

SHW Group LLP
Architects + Engineers + Planners

CONSULTANTS:
CIVIL: **OW Engineering Associates, Inc.**
STRUCTURAL: **JASTER-QUINTANILLA & ASSOC. INC.**
MEP: **DBR ENGINEERING CONSULTANTS**

FOR BIDDING AND CONSTRUCTION

COMAL ISD

SMITHSON VALLEY MIDDLE SCHOOL
ADDITIONS AND RENOVATIONS

CHECKED: ACAD File: CG 1.01 DRAINAGE AND GRADING PLAN
© 2006 SHW Group LLP

ISSUE:

SHEET TITLE: **DRAINAGE DETAILS AND CALCULATIONS**

CG 5.01
3406.002.00

SOIL DISTURBANCE NOTE

SOIL DISTURBANCES WILL OCCUR DUE TO CLEARING, GRUBBING, AND GRADING OF AREAS TO BE USED FOR ROADS, ROAD RIGHT-OF-WAYS, AND DETENTION FACILITIES. DISTURBANCES WILL ALSO OCCUR DURING THE HOME BUILDING PROCESS. THESE DISTURBANCES CAN BE ATTRIBUTED TO, BUT NOT LIMITED TO, CLEARING AND GRUBBING RELATED TO BUILDING PAD, DRIVEWAY, AND LANDSCAPE PREPARATION.

A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE INSTALLED TO PROVIDE A STABLE ENTRANCE/EXIT CONDITION FROM THE CONSTRUCTION SITE TO KEEP MUD AND SEDIMENT OFF PUBLIC ROADWAYS (REFER TO THE EDWARDS AQUIFER TECHNICAL GUIDANCE MANUAL FOR CONSTRUCTION INFORMATION).

SOIL STABILIZATION NOTE

TEMPORARY EROSION CONTROL MEASURES WILL BE USED TO STABILIZE DISTURBED AREAS (REFER TO THE EDWARDS AQUIFER TECHNICAL GUIDANCE MANUAL FOR CONSTRUCTION OF EROSION CONTROL MEASURES). TRAFFIC WILL BE ROUTED AROUND THESE AREAS TO REDUCE THE EXTENT OF DISTURBED AREAS BY REDUCING SEDIMENT LOADS TO SURFACE WATER.

BARE SOILS SHOULD BE SEEDED OR OTHERWISE STABILIZED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED FOR MORE THAN 21 DAYS.

MULCHING/MATS CAN BE USED TO PROTECT THE DISTURBED AREA WHILE VEGETATION BECOMES ESTABLISHED.

NATURAL BUFFER ZONE NOTE

NATIVE GRASSES, FORBS AND TREES ADJACENT TO AND UPGRADIENT OF SENSITIVE FEATURES WILL REMAIN UNDISTURBED SO THAT RAINFALL MAY CONTINUE TO ENTER THE FEATURE. THE NATURAL VEGETATED AREAS WILL ENCOMPASS A TWO HUNDRED (200) FOOT RADIUS FROM THE CENTER OF THE FEATURE IN ORDER TO MAINTAIN PRE-DEVELOPMENT RECHARGE QUANTITY AND QUALITY.

WHEN ALL OR A PROTION OF THE BUFFER FOR A SENSITIVE FEATURE IS LOCATED WITHIN THE YARD OF A RESIDENTIAL TRACT, IT SHOULD BE SEPARATED BY A BARRIER, SUCH AS A FENCE, FROM CONVENTIONAL LANDSCAPING AND MAINTAINED IN THE NATURAL STATE.

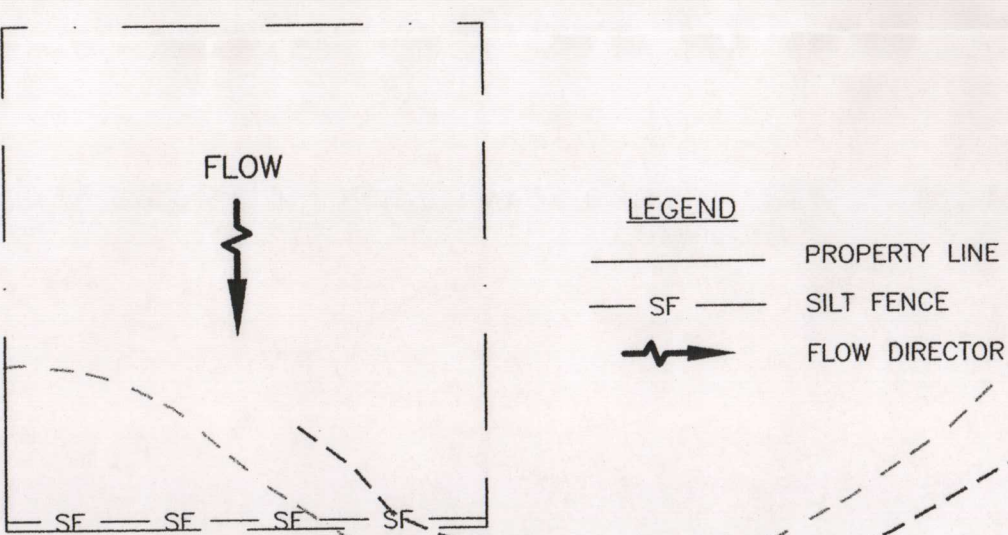
SCALE: 1" = 400'

LEGEND

- NATURAL BUFFER ZONE BOUNDARY
- DRAINAGE AREA BOUNDARY
- DRAINAGE AREA NUMBER
- CREEK CENTERLINE
- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- ROCK BERM

TOTAL SILT FENCE : 13,000 L.F.
ROCK BERM L.F. : 890 L.F.

TYPICAL LOT PLAN FOR TEMPORARY B.M.P.



NOTE: LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS 1/4 ACRE/100 FEET OF FENCE.

EXAMPLE:
AVERAGE CALCULATED DISTURBED AREA PER LOT = 0.12 ACRES
MINIMUM LENGTH OF SILT FENCE = 50 FEET

REVISIONS
08-20-07 : REVISED SILT FENCE AND ROCK BERM TO UNIT 1.
09-20-07 : REVISED S-40 BASED ON INFORMATION.
11-20-07 : ADDED SILT FENCE DETAIL.

BRANCH OFFICE
P.O. BOX 391
MCQUEENY, TEXAS 78123
PHONE # (830) 560-3200
FAX # (830) 560-3203
M & S
MAIN OFFICE
P.O. BOX 970
SPRING BRANCH, TEXAS 78070
PHONE # (830) 228-5446
FAX # (830) 885-2170
ENGINEERING, LTD.
ENGINEERS, PLANNERS AND SURVEYORS



Vintage Oaks At The Vineyard
Unit 1
Site Plan

DESIGNED BY: LEK
CHECKED BY: KCS
DRAWN BY: HJS
JOB: 6NSW001
DATE: 7-27-06
SCALE: SCALE

SHEET: 1

OF 1

Edwards Aquifer Protection Program Contributing Zone Plan

To:
Attn: TCEQ San Antonio Regional Office
14250 Judson Road
San Antonio, TX 78233-4480

TCEQ-R13
SEP 24 2007
SAN ANTONIO
*Admin Complete
C.F.*

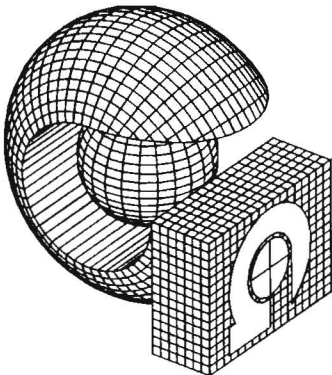
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OCT 01 2007
COUNTY ENGINEER

2007 SEP 21 AM 11:14

"RECEIVED-TCEQ"
SAN ANTONIO
REGION

For:
Comal Independent School District
Smithson Valley Middle School
1404 IH 35 North
New Braunfels, Texas 78130

Prepared by:



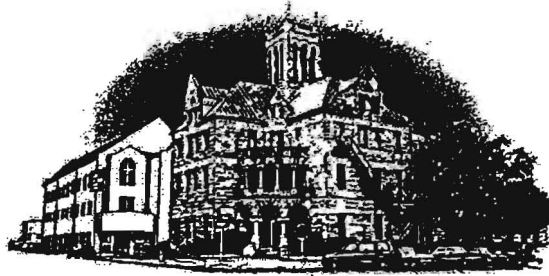
Gil Engineering Associates, Inc.

CONSULTING ENGINEERS SURVEYORS

PLANNERS BUILDING DESIGNERS

506 EAST BRAKER LANE AUSTIN, TEXAS 78753-2751 phone (512) 835-4203

fax (512) 835-4407



Comal County

OFFICE OF COMAL COUNTY ENGINEER

October 2, 2007

Ms. Lynn M. Bumguardner
Water Section Work Leader
San Antonio Regional Office – Region 13
14250 Judson Road
San Antonio, TX 78233-4480

Re: CISD Smithson Valley Middle School Contributing Zone Plan within Comal
County, Texas

Dear Ms. Bumguardner:

We are in receipt of the CZP application that you sent for our review. The suitability letter used for attachment F of the CZP application is not sufficient.

Based on the size of the school and the potential wastewater generation, the suitability letter request may need to be sent to the TCEQ (if the wastewater generation for the entire 60 acre tract exceeds 5,000 gpd). If the wastewater generation is less than 5,000 gpd, please have the engineer submit a suitability letter request to our office.

If you have any questions or need additional information, please contact our office.

Sincerely,

Robert Boyd, P.E.
Comal County Assistant Engineer

Kathleen Hartnett White, *Chairman*
Larry R. Soward, *Commissioner*
H. S. Buddy Garcia, *Commissioner*
Glenn Shankle, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 25, 2007

Mr. Thomas H. Hornseth, P.E.
Comal County Engineer
195 David Jonas Drive
New Braunfels TX 78132-3710

Re: Edwards Aquifer, Comal County
PROJECT NAME: CISD Smithson Valley Middle School: Located at 6101 FM 311, Spring Branch, TX
PLAN TYPE: Application for Approval of a Contributing Zone Water Pollution Abatement Plan (CZP) request, 30 Texas Administration Code (TAC) Chapter 213; Edwards Aquifer Protection Program
San Antonio Region File Number: 2718.00

Dear Mr. Hornseth:

The enclosed WPAP application is being forwarded to you pursuant to the Edwards Aquifer Rules. The Texas Commission on Environmental Quality (TCEQ) is required by 30 TAC Chapter 213 to provide copies of all applications to affected incorporated cities and underground water conservation districts for their comments prior to TCEQ approval.

Please forward your comments to this office by October 23, 2007.

The Texas Commission on Environmental Quality appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact the San Antonio Region Office at (210) 490-3096.

Sincerely

A handwritten signature in black ink, appearing to read "Lynn M. Bumguardner".

Lynn M. Bumguardner
Water Section Work Leader
San Antonio Regional Office

LMB/eg

Contributing Zone Plan Checklist

- ☒ Contributing Zone Plan Application (*TCEQ-10257*)
 - ATTACHMENT A - Road Map
 - ATTACHMENT B - USGS Quadrangle Map
 - ATTACHMENT C - Project Narrative
 - ATTACHMENT D - Factors Affecting Surface Water Quality
 - ATTACHMENT E - Volume and Character of Stormwater
 - ATTACHMENT F - Suitability Letter from Authorized Agent (if OSSF is proposed)
 - ATTACHMENT G - Alternative Secondary Containment Methods (if AST with an alternative method of secondary containment is proposed)
 - ATTACHMENT H - AST Containment Structure Drawings (if AST is proposed)
 - ATTACHMENT I - 20% or Less Impervious Cover Waiver (if project is multi-family residential, a school, or a small business *and* 20% or less impervious cover is proposed for the site)
 - ATTACHMENT J - BMPs for Upgradient Stormwater
 - ATTACHMENT K - BMPs for On-site Stormwater
 - ATTACHMENT L - BMPs for Surface Streams
 - ATTACHMENT M - Construction Plans
 - ATTACHMENT N - Inspection, Maintenance, Repair and Retrofit Plan
 - ATTACHMENT O - Pilot-Scale Field Testing Plan, if BMPs not based on *Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs*
 - ATTACHMENT P - Measures for Minimizing Surface Stream Contamination
- ☒ Storm Water Pollution Prevention Plan (SWPPP)
- ☒ Copy of Notice of Intent (NOI)
- ☐ Agent Authorization Form (*TCEQ-0599*), if application submitted by agent
- ☒ Contributing Zone Fee Application Form (*TCEQ-10258*)
- ☒ Check Payable to the "Texas Commission on Environmental Quality"
- ☒ Core Data Form (*TCEQ-10400*)

Contributing Zone Plan Application
for Regulated Activities
on the Contributing Zone to the Edwards Aquifer
and Relating to 30 TAC §213.24(1), Effective June 1, 1999

Regulated Entity Name: Smithson Valley Middle School
County: Comal Stream Basin: Miller Creek

1. ☒ Regulated activities on this site will disturb at least 5 acres.
☐ Regulated activities on this site will disturb less than 5 acres and are part of a larger common plan of development or sale with the potential to disturb cumulatively five or more acres.

2. Customer (Applicant):

Contact Person: Thomas Bloxham
Entity: Comal Independent School District
Mailing Address: 1404 IH 35 North
City, State: New Braunfels, Texas Zip: 78130
Telephone: (830) 221-2000 FAX: (830) 221-2001

TCEQ-R13
SEP 24 2007
SAN ANTONIO

Agent/Representative (If any):

Contact Person: Victor Gil
Title: Principal
Entity: Gil Engineering Associates, Inc.
Mailing Address: 506 E. Braker Ln.
City, State: Austin, Texas Zip: 78753
Telephone: (512) 835-4203 FAX: (512) 835-4407

3. ☒ This project is inside the city limits of Spring Branch, Texas.
☐ This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
☐ This project is not located within any city's limits or ETJ.
4. The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.
A 60 acre tract of land being out of and a part of that certain 1000 acre tract of land that was conveyed by Joe S. Sheldon Jr., et al, to Lake Croft Beach Estates, Inc. by deed recorded in Vol. 187, pages 742-746, of the Deed Records of Comal County, Texas. The physical address of this tract is 6101 FM 311, Spring Branch, Texas 78070.
5. ☒ **ATTACHMENT A - Road Map.** A road map showing directions to and the location of the project site is found as at the end of this form.
6. ☒ **ATTACHMENT B - USGS Quadrangle Map.** A copy of the a USGS Quadrangle Map (Scale: 1" = 2000') is found at the end of this form. The map(s) clearly shows:
☒ Project site boundaries.
☒ USGS Quadrangle Name(s).
7. ☒ **ATTACHMENT C - Project Narrative.** A detailed narrative description of the proposed project is found at the end of this form.

8. Existing project site conditions are noted below:
- ☐ Existing commercial site
 - ☐ Existing industrial site
 - ☐ Existing residential site
 - ☐ Existing paved and/or unpaved roads
 - ☐ Undeveloped (Cleared)
 - ☐ Undeveloped (Undisturbed/Uncleared)
 - ☒ Other: Existing school site

PROJECT INFORMATION

9. The type of project is:
- ☐ Residential: # of Lots: _____
 - ☐ Residential: # of Living Unit Equivalents: _____
 - ☐ Commercial
 - ☐ Industrial
 - ☒ Other: School
10. Total project area (size of site): 60 Acres
Total disturbed area: 7.86 Acres
11. Projected population: 600
12. The amount and type of impervious cover expected after construction is complete is shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	86,307	÷ 43,560 =	1.98
Parking	168,605	÷ 43,560 =	3.87
Other paved surfaces	10,015	÷ 43,560 =	.23
Total Impervious Cover	264,927	÷ 43,560 =	6.08
Total Impervious Cover ÷ Total Acreage x 100 =			10 %

13. ☒ **ATTACHMENT D - Factors Affecting Surface Water Quality.** A description of factors that could affect surface water quality is found as at the end of this form. If applicable, this should included the location and description of any discharge associated with industrial activity other than construction.
14. ☒ Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

FOR ROAD PROJECTS ONLY

Complete questions 15-20 if this application is exclusively for a road project.

15. Type of project:
- ☐ TXDOT road project.
 - ☐ County road or roads built to county specifications.
 - ☐ City thoroughfare or roads to be dedicated to a municipality.
 - ☐ Street or road providing access to private driveways.

16. Type of pavement or road surface to be used:

- ☐ Concrete
☐ Asphaltic concrete pavement
☐ Other: _____

17. Length of Right of Way (R.O.W.): _____ feet.
Width of R.O.W.: _____ feet.
L x W = _____ Ft² ÷ 43,560 Ft²/Acre = _____ acres.

18. Length of pavement area: _____ feet.
Width of pavement area: _____ feet.
L x W = _____ Ft² ÷ 43,560 Ft²/Acre = _____ acres.
Pavement area _____ acres ÷ R.O.W. area _____ acres x 100 = _____ % impervious cover.

19. ☐ A rest stop will be included in this project.
☐ A rest stop will **not** be included in this project.

20. ☐ Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

STORMWATER TO BE GENERATED BY THE PROPOSED PROJECT

21. ☒ **ATTACHMENT E - Volume and Character of Stormwater.** A description of the volume and character (quality) of the stormwater runoff which is expected to occur from the proposed project is found at the end of this form. The estimates of stormwater runoff quality and quantity are based on area and type of impervious cover. The runoff coefficient of the site for both pre-construction and post-construction conditions is included.

WASTEWATER TO BE GENERATED BY THE PROPOSED PROJECT

22. Wastewater will be disposed of by:

☒ On-Site Sewage Facility (OSSF/Septic Tank):
ATTACHMENT F - Suitability Letter from Authorized Agent. An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's written approval is provided at the end of this form. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities, or it identifies those areas that are not suitable for the use of private sewage facilities. The system will be designed by a licensed professional engineer or a registered sanitarian and installed by a licensed installer in compliance with 30 TAC §285.

☐ Sewage Collection System (Sewer Lines):
Wastewater is to be disposed of by conveyance to the _____
_____ (name) treatment plant for treatment and disposal. The
treatment facility is :
☐ existing.
☐ proposed.

☒ Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC §213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.

FOR PERMANENT ABOVEGROUND STORAGE TANKS (ASTs) > 500 GALLONS

Complete questions 23-29 if this project includes the installation of AST(s) with volume(s) greater than 500 gallons.

23. Tanks and substance stored:

AST Number	Size (Gallons)	Substance to be Stored	Tank Material
1			
2			
3			
4			
5			
Total		x 1.5 =	gallons

24. ☐ The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

☐ **ATTACHMENT G - Alternative Secondary Containment Methods.** Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are found at the end of this form.

25. Inside dimensions and capacity of containment structure(s):

Length (L) (Ft.)	Width (W) (Ft.)	Height (H) (Ft.)	L x W x H = (Ft ³)	Gallons
Total				

26. ☐ All piping, hoses, and dispensers will be located inside the containment structure.
☐ Some of the piping to dispensers or equipment will extend outside the containment structure.
☐ The piping will be aboveground
☐ The piping will be underground

27. ☐ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of _____.

28. **ATTACHMENT H - AST Containment Structure Drawings.** A scaled drawing of the containment structure is found at the end of this form that shows the following:

☐ Interior dimensions (length, width, depth and wall and floor thickness).
☐ Internal drainage to a point convenient for the collection of any spillage.
☐ Tanks clearly labeled
☐ Piping clearly labeled
☐ Dispenser clearly labeled

29. Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.

☐ In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.
☐ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

SITE PLAN

Items 30 through 41 must be included on the Site Plan.

30. The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" = 40 '.

31. 100-year floodplain boundaries

☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
☒ No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s):

F.E.M.A. F.I.R.M. Map 4854630040D Dated June 15, 1988

32. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
33. ☒ A drainage plan showing all paths of drainage from the site to surface streams.
34. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
35. ☒ Areas of soil disturbance and areas which will not be disturbed.
36. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
37. ☒ Locations where soil stabilization practices are expected to occur.
38. ☒ Surface waters (including wetlands).

39. ☒ Locations where stormwater discharges to surface water.
There will be no discharges to surface water.
40. ☒ Temporary aboveground storage tank facilities.
Temporary aboveground storage tank facilities will not be located on this site.
41. ☒ Permanent aboveground storage tank facilities.
Permanent aboveground storage tank facilities will not be located on this site.

Permanent best management practices (BMPs) and measures that will be used during and after construction is completed.

42. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
43. ☒ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
- ☒ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
- ☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is provided below
-
44. ☒ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.
45. ☐ Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
- ☐ This site will be used for low density single-family residential development and has 20% or less impervious cover.
- ☐ This site will be used for low density single-family residential development but has more than 20% impervious cover.
- ☒ This site will not be used for low density single-family residential development.
46. ☒ The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

- ☐ **ATTACHMENT I - 20% or Less Impervious Cover Waiver.** This site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is found at the end of this form.
- ☒ This site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- ☐ This site will not be used for multi-family residential developments, schools, or small business sites.

47. **ATTACHMENT J - BMPs for Upgradient Stormwater.**

- ☐ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is provided as **ATTACHMENT J** at the end of this form.
- ☒ If no surface water, groundwater or stormwater originates upgradient from the site and flows across the site, an explanation is provided as **ATTACHMENT J** at the end of this form.
- ☐ If permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, an explanation is provided as **ATTACHMENT J** at the end of this form.

48. **ATTACHMENT K - BMPs for On-site Stormwater.**

- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is provided as **ATTACHMENT K** at the end of this form.
- ☐ If permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, an explanation is provided as **ATTACHMENT K** at the end of this form.

49. ☒ **ATTACHMENT L - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams is provided at the end of this form.

50. ☒ **ATTACHMENT M - Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information have been signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed permanent BMPs and measures are provided at the end of this form. Design Calculations, TCEQ Construction Notes, all proposed structural measures, and appropriate details must be shown on the construction plans.

51. ☒ **ATTACHMENT N - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is provided at the end of this form. The plan has been prepared and certified by the engineer designing the permanent BMPs and measures. The plan has been signed by the owner or responsible party. The plan includes procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofits as well as a discussion of record keeping procedures.

52. ☒ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

☐ Pilot-scale field testing (including water quality monitoring) may be required for BMPs that are not contained in technical guidance recognized by or prepared by the executive director.

— **ATTACHMENT O - Pilot-Scale Field Testing Plan.** A plan for pilot-scale field testing is provided at the end of this form.

53. ☒ **ATTACHMENT P - Measures for Minimizing Surface Stream Contamination.** A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is provided at the end of this form. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity which increase erosion that results in water quality degradation.

Responsibility for maintenance of permanent BMPs and measures after construction is complete.

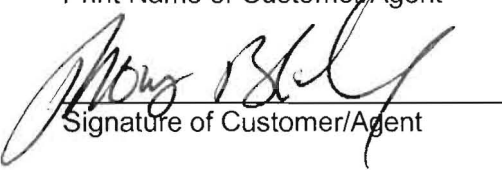
54. ☒ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
55. ☒ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

ADMINISTRATIVE INFORMATION

56. ☒ One (1) original and three (3) copies of the complete application has been provided.
57. ☒ Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.
58. ☒ The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **CONTRIBUTING ZONE PLAN APPLICATION** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

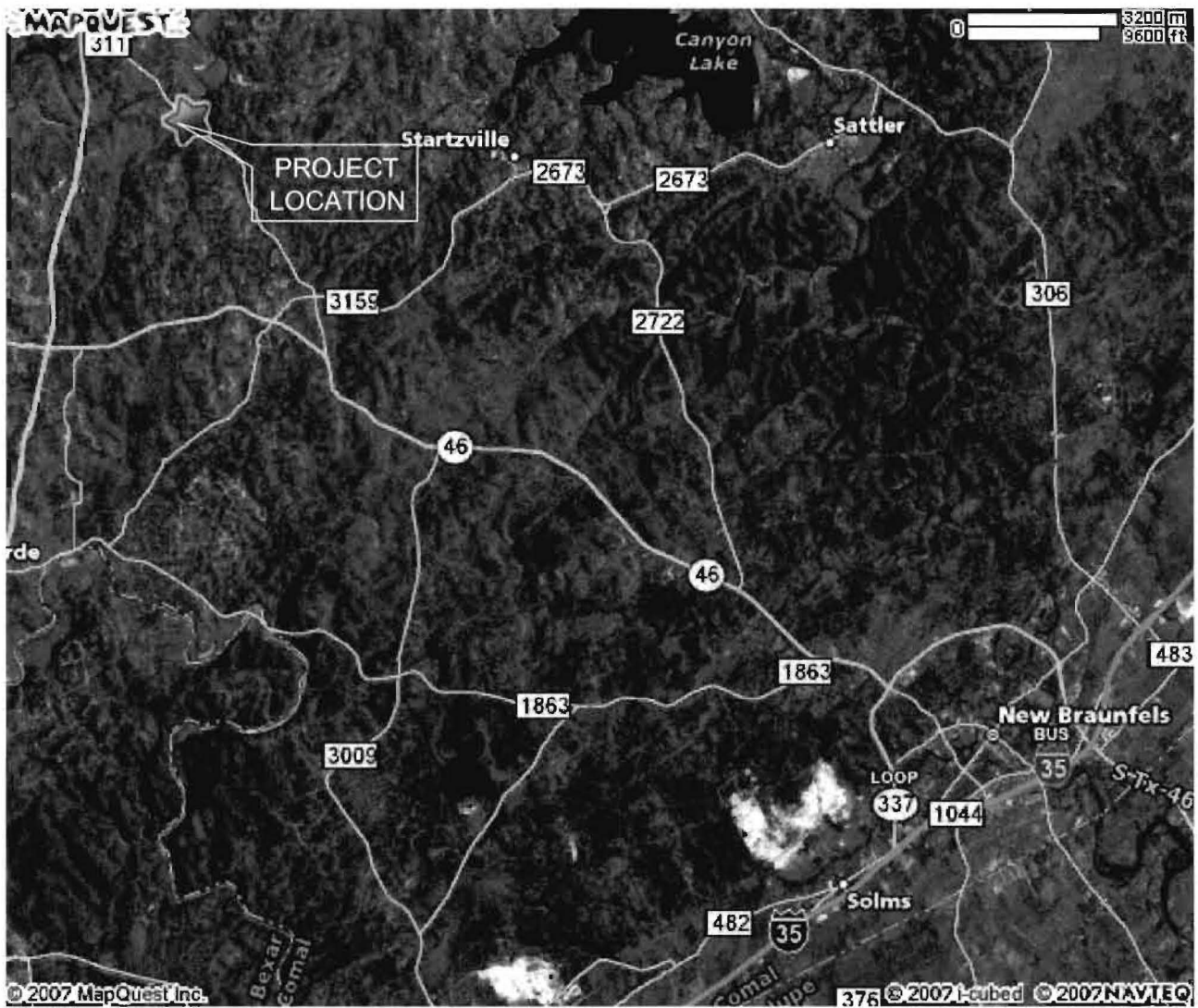
Thomas Bloxham
Print Name of Customer/Agent


Signature of Customer/Agent

6-13-07
Date

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

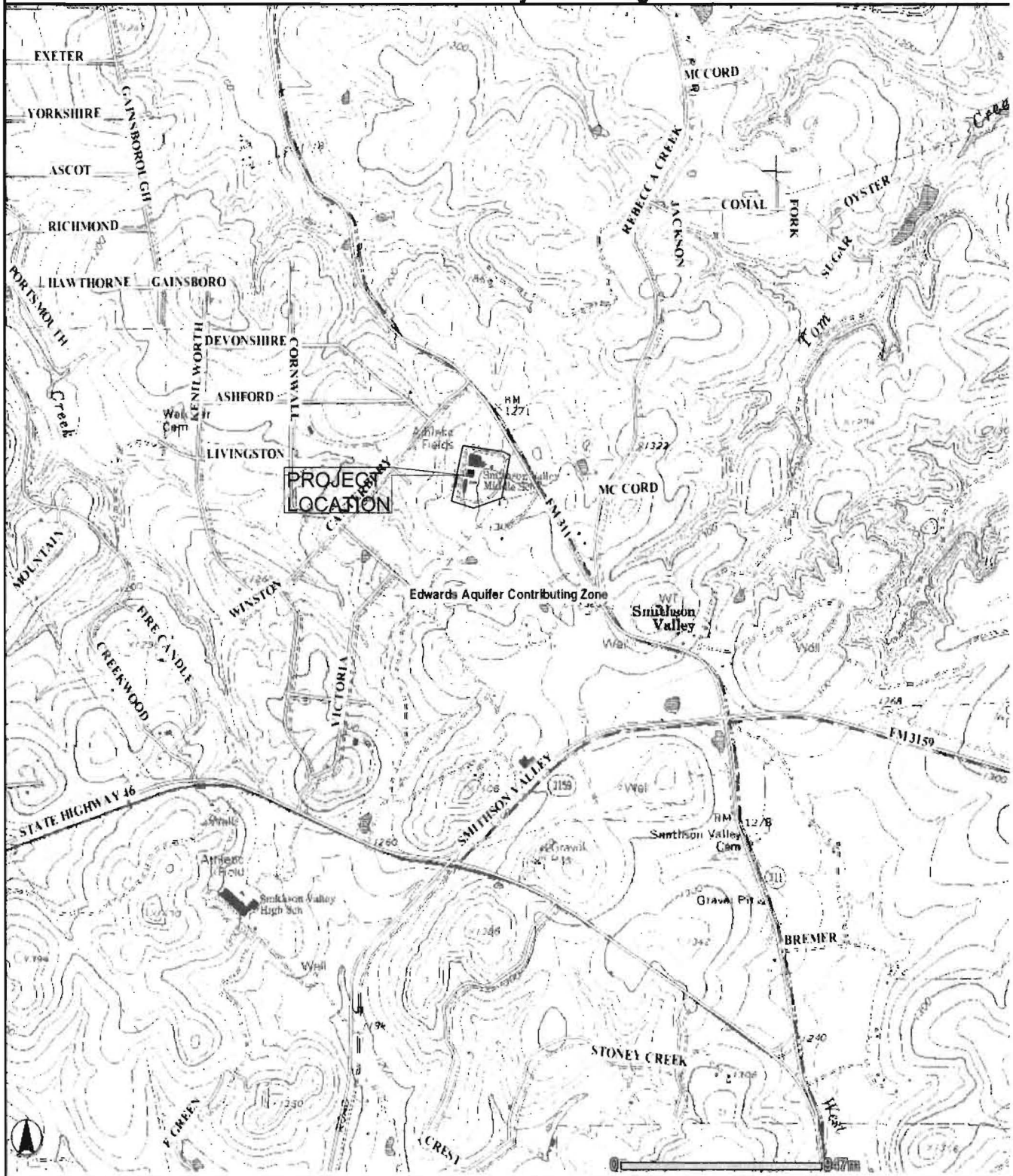
Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.



ATTACHMENT A

Road Map

Smithson Valley Quadrangle



Edwards Aquifer Contributing Zone

ATTACHMENT B
USGS/ Edwards Recharge Zone Map

PROJECT DESCRIPTION

Introduction

The project site consists of a 60.0 acre tract gross site area in Comal County and is not currently zoned. The existing School Site currently is platted as a 60.0 acre tract of land being out of and a part of that certain 1000-acre tract of land that was conveyed by Joe S. Sheldon Jr., et al. to Lake Croft Beach Estates, Inc. by deed recorded in Vol. 187, pages 742-746, of the Deed Records of Comal County, Texas.

The site is NOT within the limits of any 100 year flood plain and does NOT have a Critical Water Quality Zone. There are NO areas irrigated with wastewater.

The planned improvements consist of a 17,449 square foot Middle School Building Addition housing a library and an administration area. Existing Buildings on site total 68,858 square feet. Part of an existing drive will be removed (7,305 sq. ft.) and the drive will be rerouted, adding asphalt for a total of 168,605 square feet of paved area. New tennis courts will be added over existing asphalt (no net Increase in Impervious Cover). Some existing concrete will be removed (248 sq. ft.) and walkways to proposed new buildings will be built for a total of 10,015 square feet of concrete. The project is to begin as soon as possible (upon project approval) and is to be completed within 12 months (after site plan approval). Existing impervious cover is 243,883 sq. ft. or 9.33% of the site. The proposed impervious cover is 28,597 sq. ft. for a new total of 264,928 sq. ft. or 10.136%. There is no proposed phasing of this project.

The entire site is located within the jurisdiction of the City of Spring Branch, Texas.

Drainage Area

There is NO existing 100 year flood plain. The on-site generated runoff from the library / administration building will be routed through a proposed storm sewerage system to capture all of the runoff from the proposed building areas and convey it to the existing drainage way on site at pre-development rates. Although the classroom addition runoff will not be routed pond, the pond has been sized to retain an amount equal to the runoff from both the library / administration building and the classroom addition. This site exists at the top of a drainage area therefore there are no offsite flows running through the site.

Discussion of the Existing and Proposed Drainage Patterns

The existing site currently does not have any drainage controls in place. The site with its current impervious cover (243,883 sq. ft. 9.33% of site) drains uncontrolled to the drainage way located to the south of the site. This addition proposes to take all of the proposed impervious cover runoff thru a sedimentation / filtration pond.

The entire site drains into the existing drainage way that crosses the south line of the school tract and leaves the site on the South West corner of the school tract. The patterns will remain much unchanged. The existing building and parking approximately 243,883 sq. ft. of impervious cover is currently not being filtered or detained. This project proposes to provide a filtration and sedimentation pond to treat the runoff from the proposed impervious cover sources.

The existing drainage patterns will NOT be altered.

There is NO floodplain modification proposed by this Site Plan.

The existing site is NOT contained within any known 100 year flood plains.

Discussion of Proposed Variances

There are NO variances proposed by this project.

Critical Environmental Features within the Project and Know Features within 150 feet of the Project

The surrounding area has been partially developed. A cursory review by the undersigned of the entire site area did NOT reveal any critical environmental features within the limits of construction. This area is located in the Contributing Zone of the Edward's Aquifer.

Tree Preservation Plan

There are three existing trees to be removed as a part of this project. The project site was an existing school site and there are significant trees within the limits of construction

Known Underground Storage Tanks

There are NO known underground storage tanks located within the project area and/or the entire 60 site area.

FACTORS AFFECTING WATER QUALITY

The planned improvements consist of a 17,449 square foot Middle School Building Addition to the Current Building which is approximately 68,858 square feet. The on-site generated runoff is currently flowing unimpeded to a drainage way leading to Miller Creek. The Proposed site generated runoff will be routed through a proposed on site storm sewerage system to capture runoff and route it through a proposed full filtration / sedimentation pond. The pond will release flows at pre-development rates. There are no factors that would affect surface water or groundwater quality. There is no discharge associated with industrial activity other than construction.

VOLUME AND CHARACTER OF STORMWATER

The existing ground condition is a Middle School Site. The proposed new building flows determination are:

The existing flows of the storm water are:

2 year 0.66 cfs
5 year 0.94 cfs
10 year 1.25 cfs
25 year 1.68 cfs
50 year 2.07 cfs
100 year 2.61 cfs

The proposed flows of the storm water are:

2 year 1.77 cfs
5 year 2.44 cfs
10 year 3.08 cfs
25 year 3.94 cfs
50 year 4.73 cfs
100 year 5.74 cfs

Water quality volume from capture of 1.3" of 100% of the proposed area is 1,824 cubic feet.

120 % of WQV = 2,189 cubic feet.

The sedimentation / filtration pond provides a storage volume of 4,601 cubic feet.

The detention volume for the 100 year is 3,881 Cubic feet.

Total storage provided 4,601 cubic feet an excess of 720 cubic feet.

The character of the storm water would be classified as runoff associated with common commercial sites with buildings and parking lots and drives. There are no types of activities at a middle school to affect the character of the storm water.

ATTACHMENT F
Suitability Letter from Authorized Agent

Porter 8/14/76

COMAL COUNTY SANITATION DEPARTMENT

FEE \$250.00

RECEIPT NO. 20747

APPLICATION FOR HOUSEHOLD SEWAGE SYSTEM
(Submit in Duplicate)

NAME and LOCATION of PROPERTY where Sewage System is to be installed:

F/M 311 Smithson Valley High School

UNIT NO. BLOCK NO. LOT NO. STREET and ROAD NO. F/M 311

DIMENSION OF PROPERTY: PERCOLATION RESULTS ATTACHED

ZONE: RECHARGE RESTRICTED WATER QUALITY XX

DESCRIPTION OF STRUCTURE and SYSTEM

NO. BEDROOMS NO. BATHROOMS DISPOSAL WASHING MACHINE

SIZE OF SEPTIC TANK NO. FEET LATERALS Floor Drain & Grease Trap

OTHER SYSTEM DATE 8/3/1976

Comal I.S.D.
OWNERVoges Plumbing Co.
CONTRACTORNew Braunfels, Texas 78130
ADDRESS

ADDRESS

ALL recommendations are minimum requirements as prescribed by the "GUIDE TO THE DISPOSAL OF HOUSEHOLD SEWAGE," published by the Texas Health Department, Austin, Texas.

NOTE: For the information to be submitted in connection with this application, see the requirements outlined in the current Texas Water Quality Board Order, 75-0128-20, Comal County Resolution 74-R-10.

PERMIT NO. 20747

SEWAGE FACILITIES: LOCATION F/M 311 Smithson Valley High School
(Subdivision) StreetOWNER Comal I.S.D. New Braunfels, Texas 78130
Address

Date: 8/12/1976

INSPECTED AND APPROVED BY: C.B.S.
Inspector

Due Date 8/12/1981

PERMIT GRANTED FOR PERIOD OF 5
Yrs.

Transfer of Permit only thru Comal County Sanitation Department by New Owner for remaining period of Permit.

Garmon B. Simon
County Sanitarian or County Health Officer

APPLICATION NO. _____

20747

PERMITTED FORCONTRACTOR: Voges Plumbing Co.LOCATION: F/M 311 Smithson Valley

OTHER SYSTEM _____

LOT NO. _____

BL. NO. _____

High School
UNIT NO. _____TANK CAPACITY Floor Drain & Grease Trap

TRENCH LENGTH _____

WIDTH _____

INSPECTORS GUIDETANK
TYPE _____

OUTLET

WATER TIGHT XXTURNED DOWN+ XXWATER TIGHT
BOTTOM XX

INLET

WATER TIGHT XTURNED
DOWN XXABSORPTION TRENCHLength Floor Drain & Grease
Trap

6" Gravel under line _____

Grade _____

WIDTH _____

2" Gravel above line _____

Steps properly
Const. _____

OTHER TYPE SYSTEM _____

SANITATION SAFETY:(XX) Distance from wells,
cisterns & pump sectionTANK
50 ft.TRENCH
150 ft.TIGHT LINE
10 ft.

(XX) STREAM & PONDS

75 ft.

75 ft.

Restricted Zone

(XX) FOUNDATION wall of
Structures

5 ft.

15 ft.

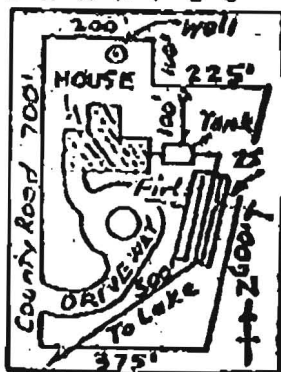
(XX) PROPERTY LINES

10 ft.

10 ft.

SKETCH OF SYSTEM AND LAYOUT:

- EXAMPLE -



SHOP

Pump

SCHOOL

Grease
TrapC.B.S.
8/12/76

F/M 311

BMPs FOR UP GRADIENT STORMWATER

The site exists on a crest of a hill. There is no up gradient storm water flowing thru the construction area.

BMPs FOR ONSITE STORMWATER

Proposed storm water generated on site will be filtered using a sedimentation pond and a sand filter bed. A capture depth of 1.3 inches was used to determine the filtration / sedimentation basin volume. Although the classroom addition runoff will not be routed pond, the pond has been sized to retain an amount equal to the runoff from both the library / administration building and the classroom addition.

ATTACHMENT K
BMPs for On-site Stormwater

BMPs FOR SURFACE STREAMS

A sedimentation pond and a sand filter bed will prevent pollutants from entering surface streams. Silt fence and rock berm will be located around the limits of construction to prevent pollutants from entering surface streams.

Description	Existing Impervious Cover			Removed Impervious Cover			Proposed Impervious Cover			Total Net Impervious Cover		
	Sq. Ft.	Acres	% of Site	Sq. Ft.	Acres	% of Site	Sq. Ft.	Acres	% of Site	Sq. Ft.	Acres	% of Site
Buildings	68,858	1.58	2.635%	0	0.00	0.000%	17,449	0.40	0.668%	86,307	1.98	3.303%
Concrete	6,910	0.16	0.264%	248	0.01	0.009%	3,353	0.08	0.128%	10,015	0.23	0.383%
Asphalt	168,115	3.86	6.432%	7,305	0.17	0.279%	7,795	0.18	0.298%	168,605	3.87	6.451%
Totals	243,883	5.60	9.331%	7,553	0.17	0.289%	28,597	0.66	1.094%	264,928	6.08	10.156%
Site Totals	2,613,600	60.00	100.000%									

STANDARD NOTES FOR EROSION AND SEDIMENTATION CONTROL

- The contractor shall install erosion / sedimentation controls and tree/natural area protective fencing prior to any site preparation work (clearing, grubbing or excavation.)
- The placement of erosion / sedimentation controls shall be in accordance with the approved Erosion and Sedimentation Control Plan.
- The placement of tree / natural area protective fencing shall be in accordance with the approved Grading / Tree and Natural Area Plan.
- A pre-construction conference shall be held on-site with the contractor, design engineer, permit applicant and Environmental Inspector after installation of the erosion / sedimentation controls and tree/natural area protection measures and prior to beginning any site preparation work. The contractor shall notify the City of New Braunfels, at least three days prior to the meeting date.
- Any significant variation in materials or locations of controls or fences from those shown on the approved plan a must be approved by the reviewing Engineer, Environmental Specialist or City Arborist as appropriate.
- The contractor is required to inspect the controls and fences at weekly intervals and after significant rainfall events to insure that they are functioning properly. The person(s) responsible for maintenance of controls and fences shall immediately make any necessary repairs to damaged areas. Silt accumulation at controls must be removed when the depth reaches six (6) inches.
- Prior to final acceptance by the City, haul roads and roadway crossings constructed for temporary contractor access must be removed, accumulated sediment removed from the roadway and the area restored to the original grade and revegetated. All land clearing debris shall be disposed of in approved spoil disposal sites.
- Field revisions to the Erosion and Sedimentation Control Plan may be required by the Environmental Inspector during the course of construction to correct control inadequacies. Major revisions must be approved by the City of New Braunfels.

9. Permanent Erosion Control:

All disturbed areas shall be restored as noted below.

- A minimum of four inches of topsoil shall be placed in all drainage channels (except rock) and between the curb and right-of-way line.
- The seeding for permanent erosion control shall be applied over areas disturbed by construction as follows:
 - From September 15 to March 1, seeding shall be with a combination of 1.0 pounds per 1000 square feet of unhulled Bermuda and 5.0 pounds per 1000 square feet of Winter rye with a purity of 95% with 90% germination.
 - From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 1.0 pounds per 600 square feet with a purity of 95% with 85% germination.
- Fertilizer shall have on analysis of 15-15-15 and shall be applied at the rate of 600 pounds per acre.
- The planted area shall be irrigated or sprinkled in a manner that will not erode the topsoil, but will sufficiently soak the soil to a depth of six inches. The irrigation shall occur at ten-day intervals during the first two months. Rainfall occurrences of 1/2 inch or more shall postpone the watering schedule for one week.
- Mulch type used shall be cellulose, applied at a rate of 2000 pounds per acre.
- Restoration shall be acceptable when the grass has grown at least 1-1/2 inches high with 95% coverage provided no bare spots larger than 16 square feet exist.
- When required, native grass seeding shall comply with requirements of the City of New Braunfels.

10. Developer Information:

Owner: Comal Independent School District
Phone #: (830) 221-2000
Address: 1421 N. Business 35, New Braunfels, Texas 78130

Owner's representative responsible for plan alterations:
SHW GROUP (512)795-0088

Person or firm responsible for erosion/sedimentation control maintenance:
Person or firm responsible for tree/natural area protection maintenance:

Consultants:

CIVIL:
Gill Engineering Associates, Inc.
CONSULTING ENGINEERS - SURVEYORS

STRUCTURAL:
JASTER-QUINTANILLA & ASSOC. INC

MEP:
DBR ENGINEERING CONSULTANTS

FOR BIDDING AND CONSTRUCTION



COMAL ISD



SMITHSON VALLEY MIDDLE SCHOOL ADDITIONS AND RENOVATIONS

CHECKED:
ACAD File: CS 1.02 SEDIMENT CONTROL PLAN
© 2006 SHW Group LLP

ISSUE:

SEP 21 2006
SEP 24 2006
SANANTONIO
SANANTONIO

SHEET TITLE:

OVERALL SITE EROSION & SEDIMENTATION CONTROL PLAN

CS 1.01
SHW Project: 4306.002.00

TREE PROTECTION DETAIL

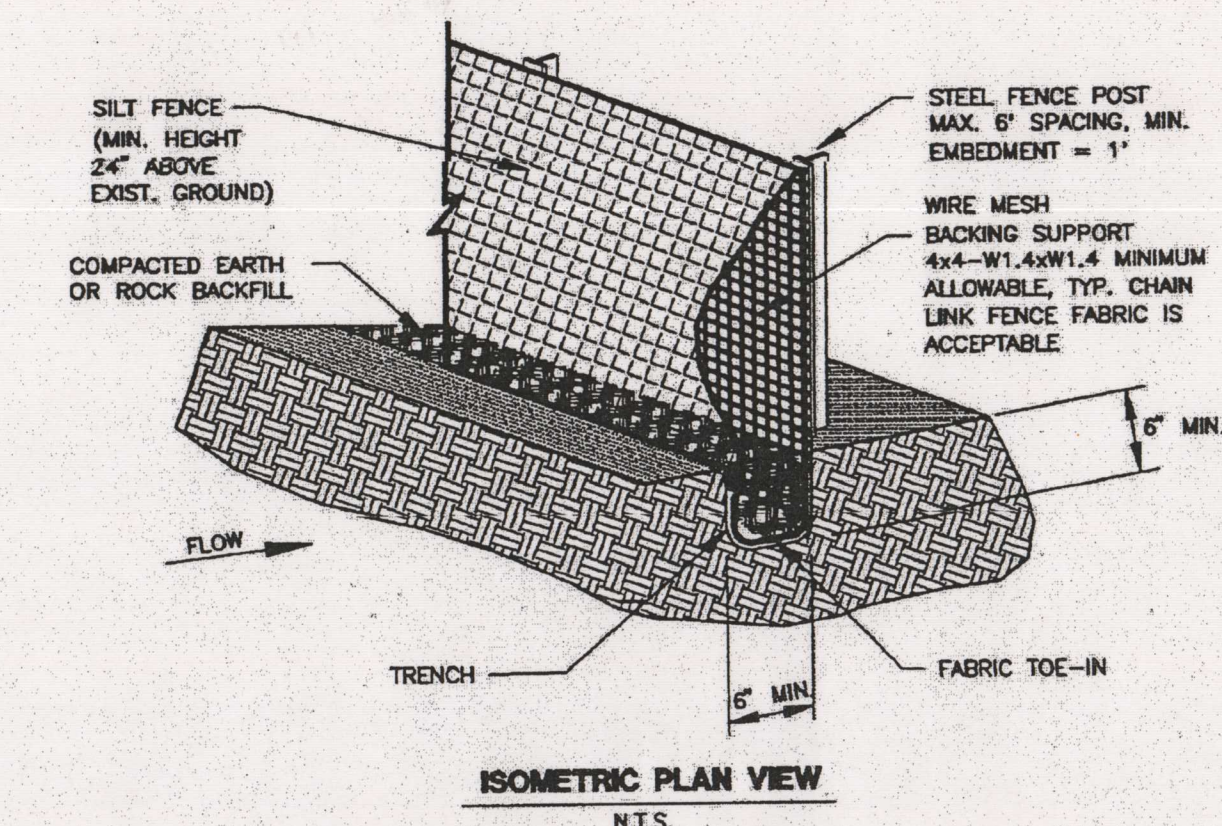
CS 1.02 NOT TO SCALE

Materials:

- Silt fence material should be polypropylene, polyethylene or polyamide woven or nonwoven fabric. The fabric width should be 36 inches, with a minimum unit weight of 4.5 oz/yd, mullen burst strength exceeding 190 lb/in², ultraviolet stability exceeding 70%, and minimum apparent opening size of U.S. Sieve No. 30.
- Fence posts should be made of hot rolled steel, at least 4 feet long with Tee or Y-bar cross section, surface painted or galvanized, minimum nominal weight 1.25 lb/ft², and Brinell hardness exceeding 140.
- Woven wire backing to support the fabric should be galvanized 2" x 4" welded wire, 12 gauge minimum.

Installation:

- Steel posts, which support the silt fence, should be installed on a slight angle toward the anticipated runoff source. Post must be embedded a minimum of 1-foot deep and spaced not more than 8 feet on center. Where water concentrates, the maximum spacing should be 6 feet.
- Lay out fencing down-slope of disturbed area, following the contour as closely as possible. The fence should be sited so that the maximum drainage area is 1/4 acre/100 feet of fence.
- The toe of the silt fence should be trenched in with a spade or mechanical trencher, so that the down-slope face of the trench is flat and perpendicular to the line of flow. Where fence cannot be trenched in (e.g., pavement or rock outcrop), weight fabric flap with 3 inches of pea gravel on uphill side to prevent flow from seeping under fence.
- The trench must be a minimum of 6 inches deep and 6 inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted material.
- Silt fence should be securely fastened to each steel support post or to woven wire, which is in turn attached to the steel fence post. There should be a 3-foot overlap, securely fastened where ends of fabric meet.
- Silt fence should be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.



SILT FENCE

CS 1.02 NOT TO SCALE

SEQUENCE OF CONSTRUCTION:

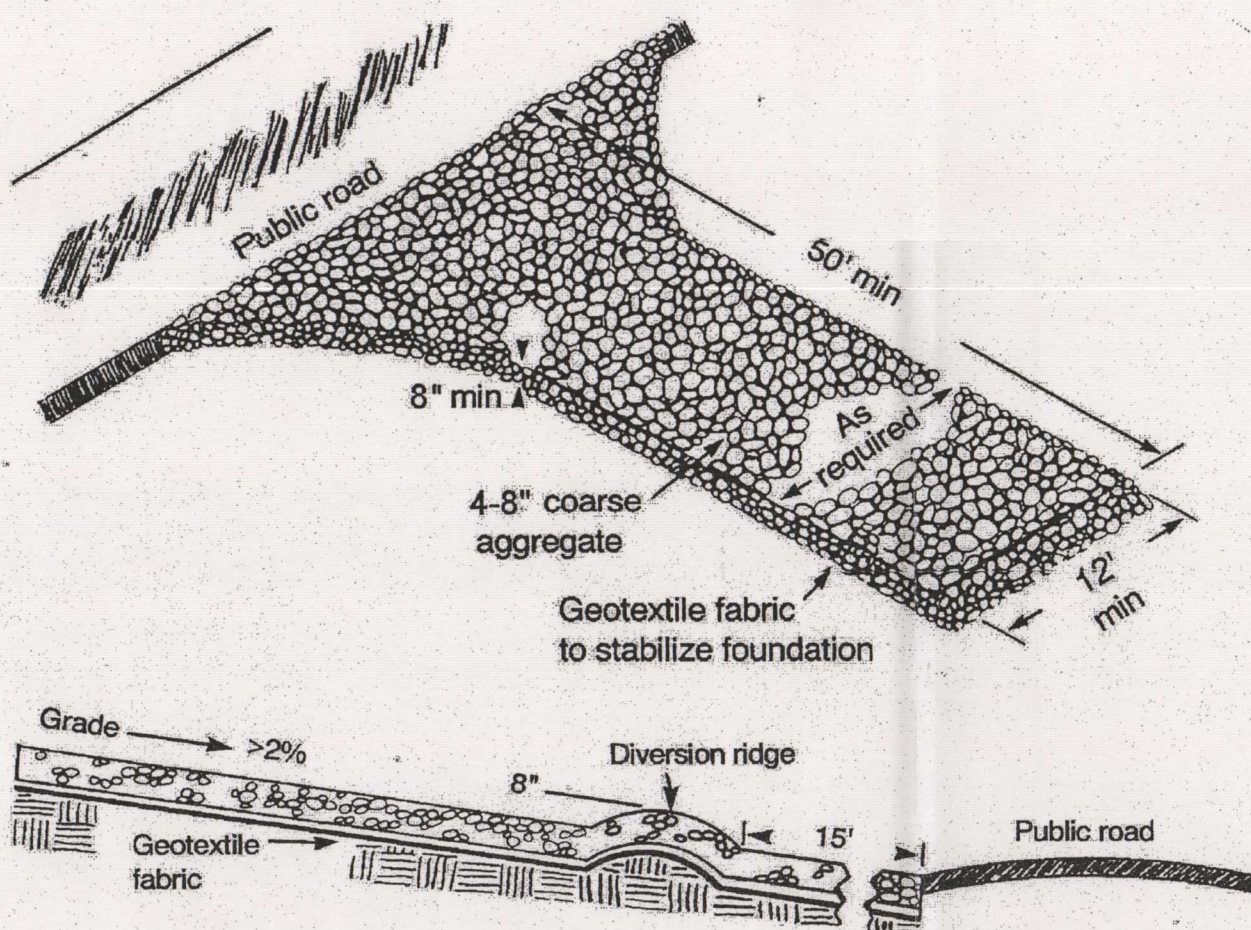
- AFTER THE ACQUISITION OF ALL REQUIRED PERMITS, NOTIFY THE CITY OF SPRING BRANCH ENGINEERING DEPARTMENT FOR A PRE-CONSTRUCTION CONFERENCE 3 DAYS IN ADVANCE.
- INSTALL THE TEMPORARY EROSION/SEDIMENTATION CONTROLS.
- DEMOLITION AND ROUGH GRADING.
- CONSTRUCTION OF BUILDING AND APPURTENANCES.
- CONSTRUCTION OF STORM WATER SYSTEM.
- FINISH GRADING, INSTALL INLET SILT PROTECTION FOR THE STORM SEWER SYSTEM AFTER THE INLET IS CONSTRUCTED.
- PLACEMENT OF PARKING SURFACE MATCHING NEW GRADE.
- INSTALL PERMANENT EROSION CONTROLS.
- OBTAIN CONCURRENCE LETTER FROM ENGINEER, AND THE FINAL INSPECTION WILL BE SCHEDULED UPON RECEIPT OF THE LETTER.
- REMOVE TEMPORARY EROSION CONTROLS AFTER ACCEPTANCE OF THE PERMANENT CONTROLS.

Materials:

- The aggregate should consist of 4 to 8 inch washed stone over a stable foundation as specified in the plan.
- The aggregate should be placed with a minimum thickness of 8 inches.
- The geotextile fabric should be designed specifically for use as a soil filtration media with an approximate weight of 6 oz/yd², a mullen burst rating of 140 lb/in², and an equivalent opening size greater than a number 50 sieve.
- If a washing facility is required, a level area with a minimum of 4 inch diameter washed stone or commercial rack should be included in the plans. Divert wastewater to a sediment trap or basin.

Installation: (North Carolina, 1993)

- Avoid curves on public roads and steep slopes. Remove vegetation and other objectionable material from the foundation area. Grade crown foundation for positive drainage.
- The minimum width of the entrance/exit should be 12 feet or the full width of exit roadway, whichever is greater.
- The construction entrance should be at least 50 feet long.
- If the slope toward the road exceeds 2%, construct a ridge, 6 to 8 inches high with 3:1 (H:V) side slopes, across the foundation approximately 15 feet from the entrance to divert runoff away from the public road.
- Place geotextile fabric and grade foundation to improve stability, especially where wet conditions are anticipated.
- Place stone to dimensions and grade shown on plans. Leave surface smooth and slope for drainage.
- Divert all surface runoff and drainage from the stone pad to a sediment trap or basin.
- Install pipe under pad as needed to maintain proper public road drainage.



STABILIZED CONSTRUCTION ENTRANCE

CS 1.02 NOT TO SCALE

CONTROL

- 100D NAIL N=5585.09 E=10190.39 ELEV=1305.00
- 100D NAIL N=5890.37 E=10254.97 ELEV=1281.35
- PK NAIL N=5863.66 E=9764.38 ELEV=1279.64
- PK NAIL N=5731.74 E=9760.25 ELEV=1279.93
- PK NAIL N=5677.02 E=9750.29 ELEV=1280.77
- PK NAIL N=5497.21 E=9716.22 ELEV=1281.73
- PK NAIL N=5192.77 E=9646.07 ELEV=1279.63
- PK NAIL N=5160.10 E=9767.71 ELEV=1286.90
- PK NAIL N=5305.73 E=10227.24 ELEV=1317.07
- PK NAIL N=5140.29 E=10018.16 ELEV=1311.36
- PK NAIL N=5095.93 E=10186.71 ELEV=1324.64
- 100D NAIL N=5454.47 E=9937.95 ELEV=1308.00
- 100D NAIL N=5574.21 E=9957.17 ELEV=1305.63
- 100D NAIL N=5624.08 E=9865.82 ELEV=1292.33

EXISTING ASPHALT
NEW BUILDINGS

OVERALL SITE EROSION & SEDIMENTATION CONTROL PLAN

CS 1.02 SCALE: 1" = 40'

SCALE: 1" = 40'

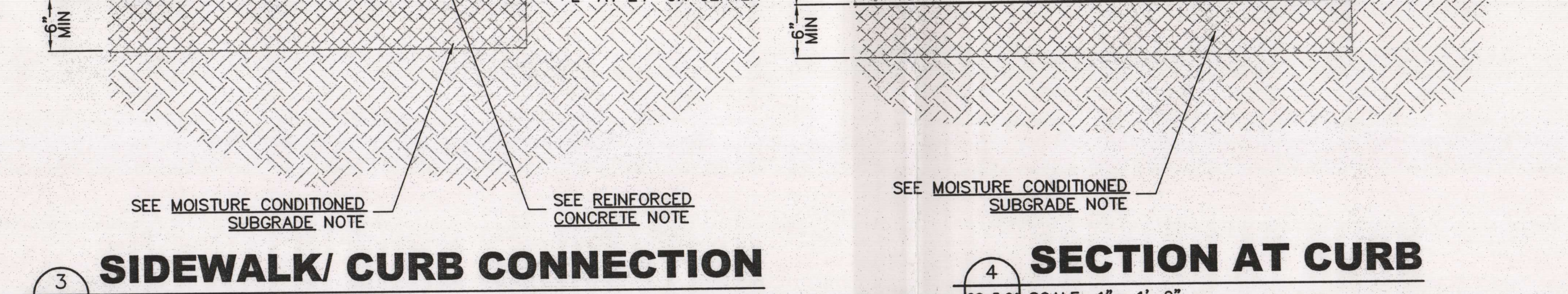
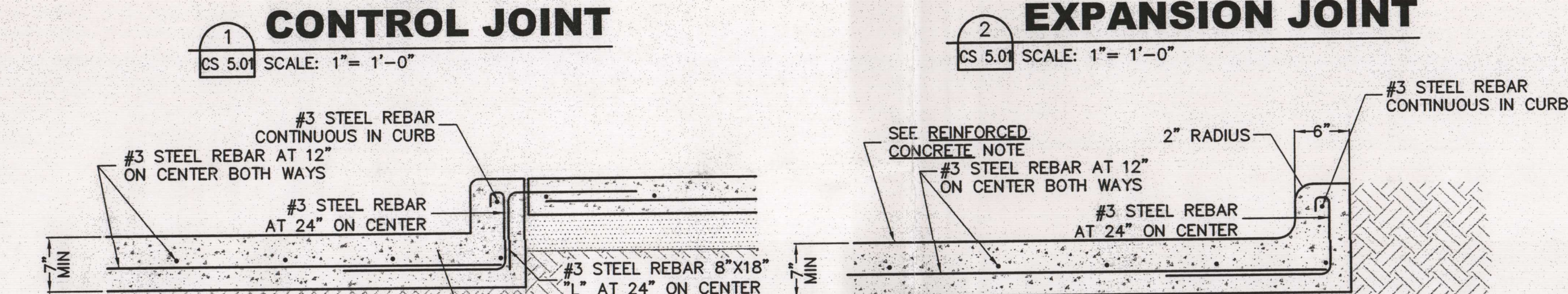
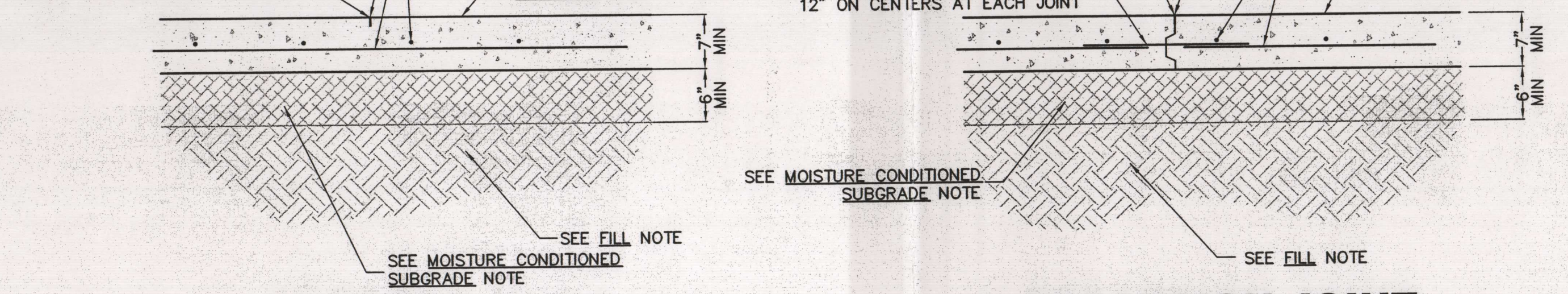
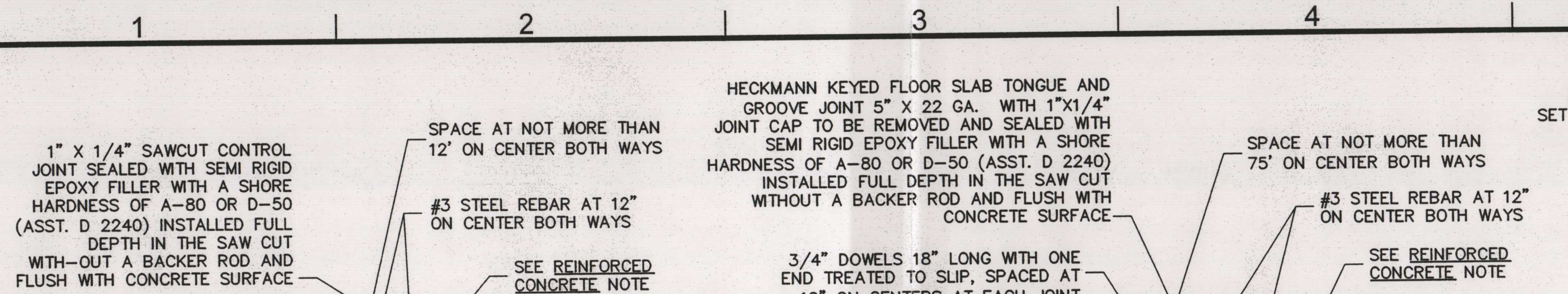
LIMITS OF CONSTRUCTION; LINE SHOWS AREAS OF SOIL DISTURBANCE; NO SOIL DISTURBANCE WILL OCCUR OUTSIDE THE LIMITS OF CONSTRUCTION

AREAS OF SOIL DISTURBANCE
NOTE: AREAS NOT STABILIZED BY CONCRETE TO ASPHALT TO BE HYDROMULCHED OR SOD TO BE PLACED ON ALL 4:1 SLOPES

EXISTING FLOW

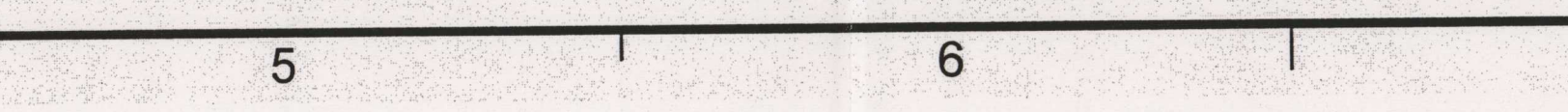
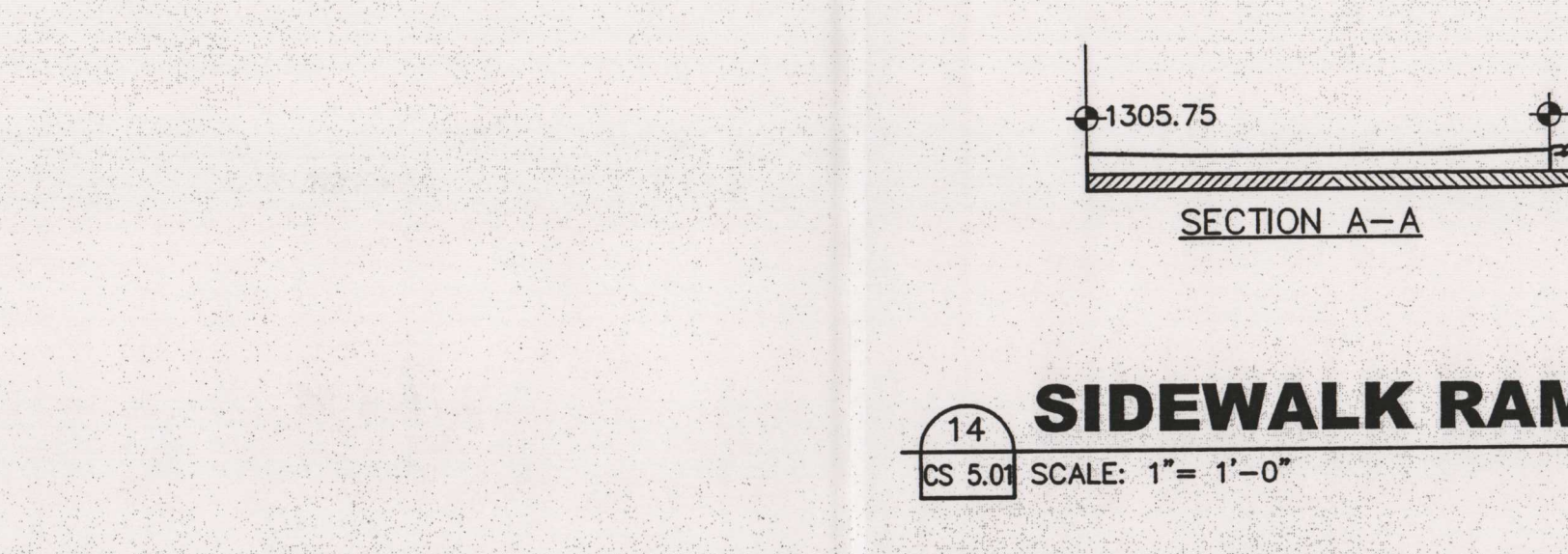
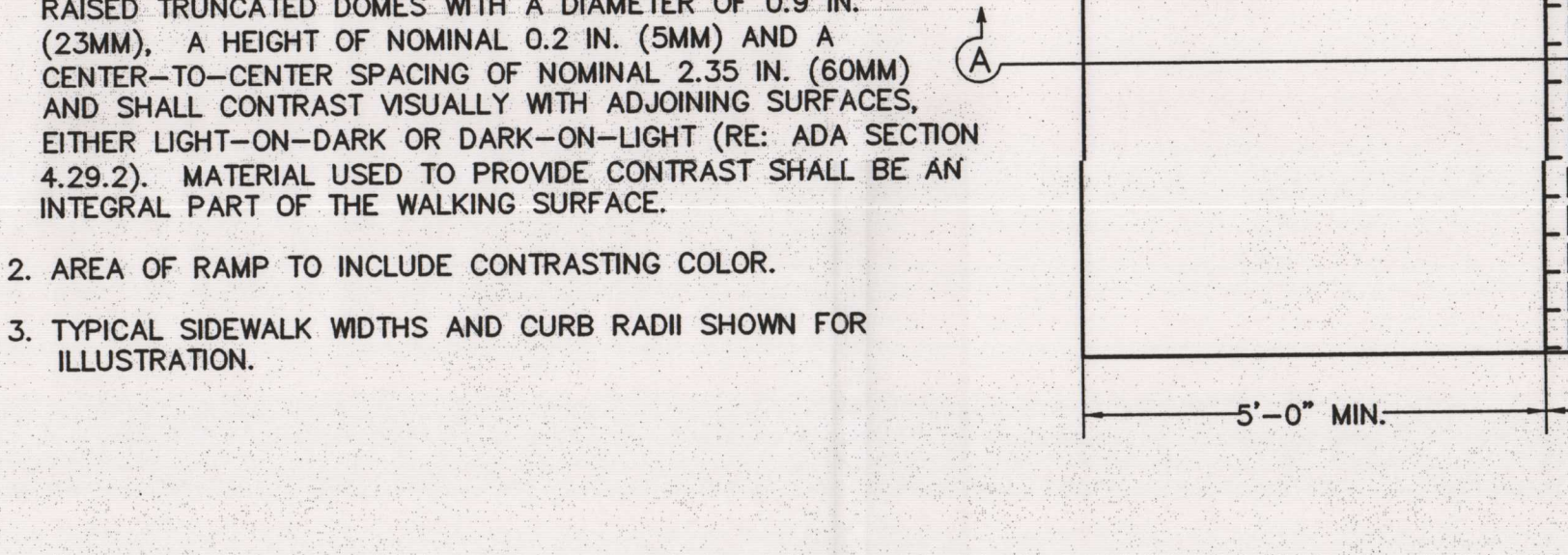
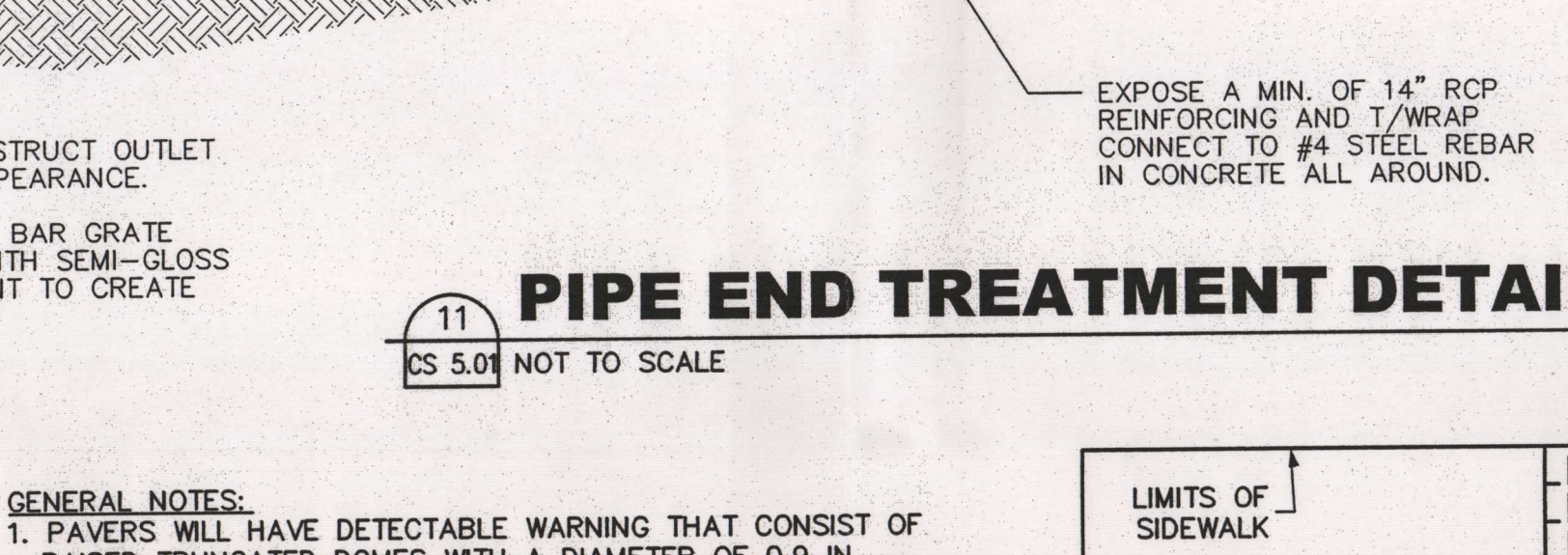
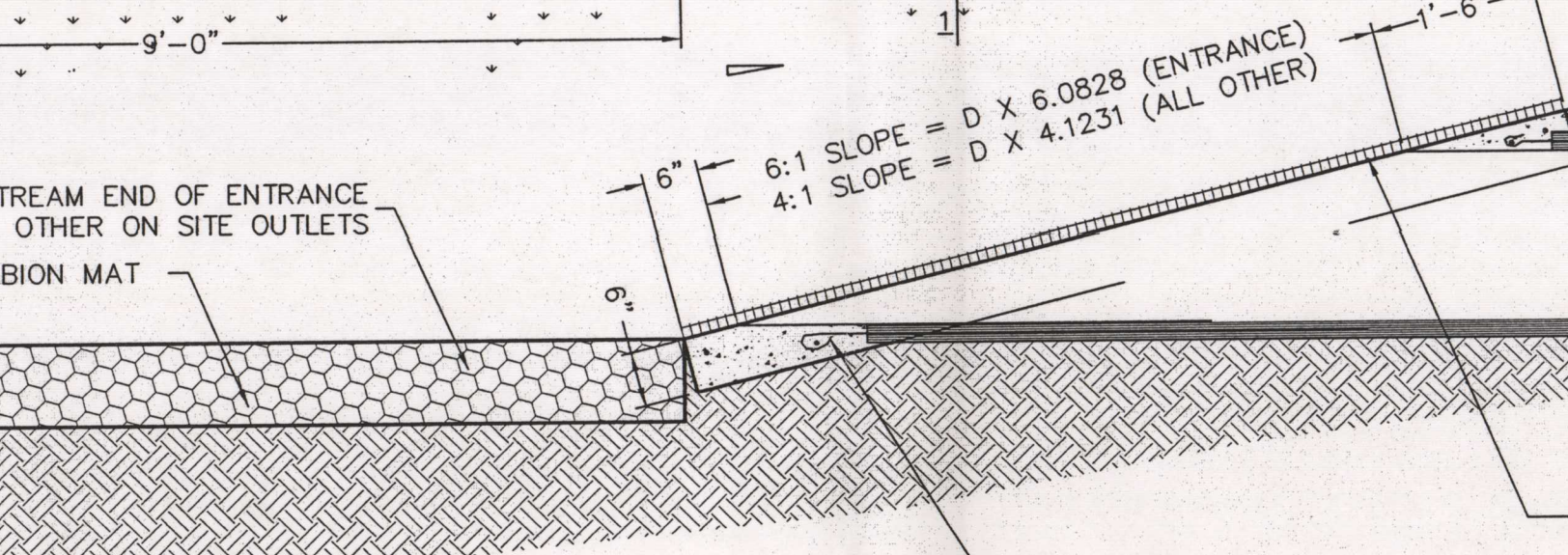
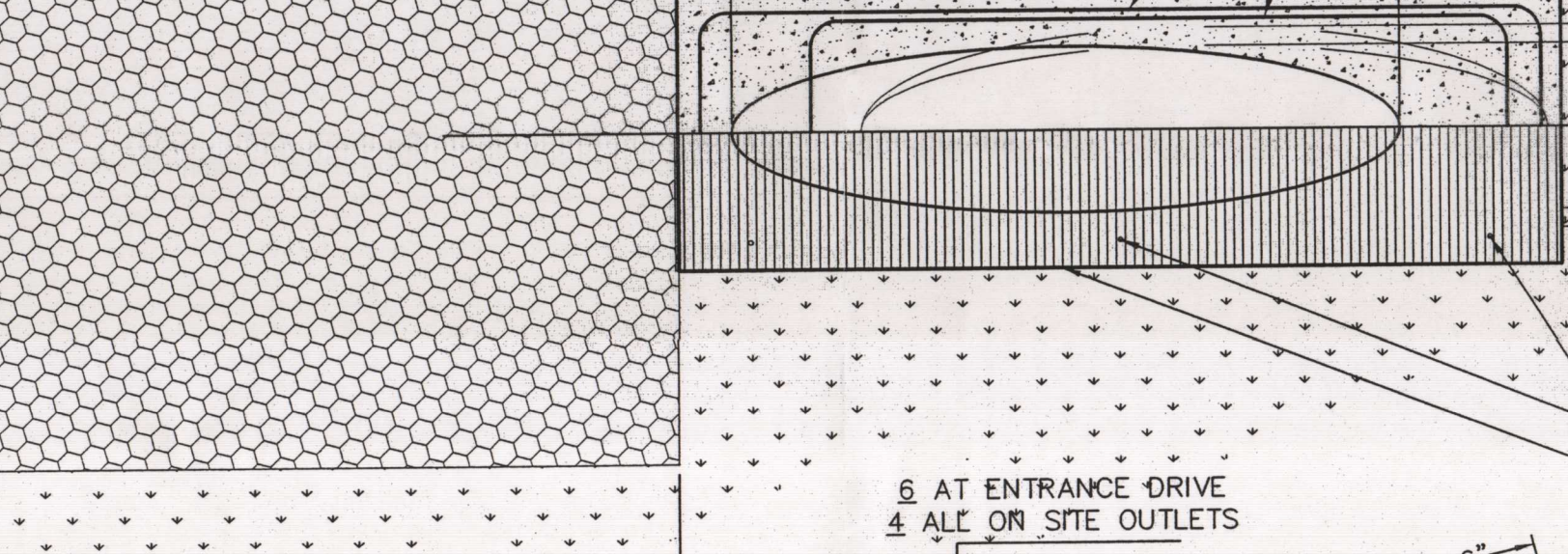
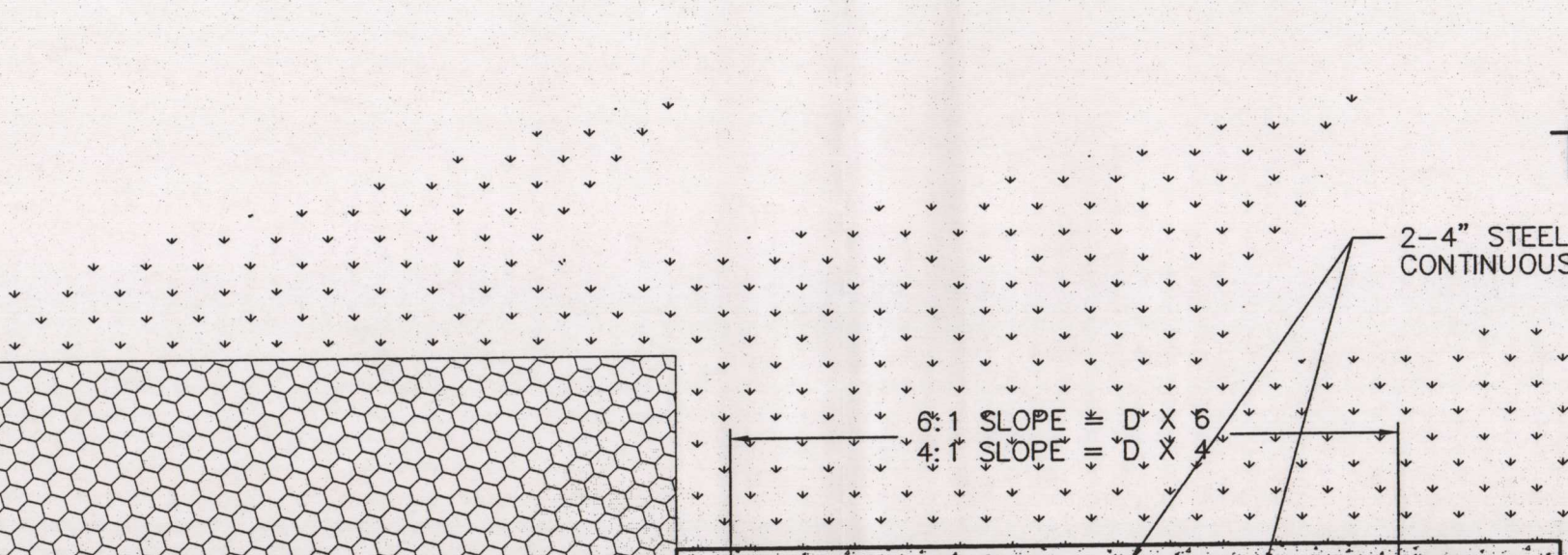
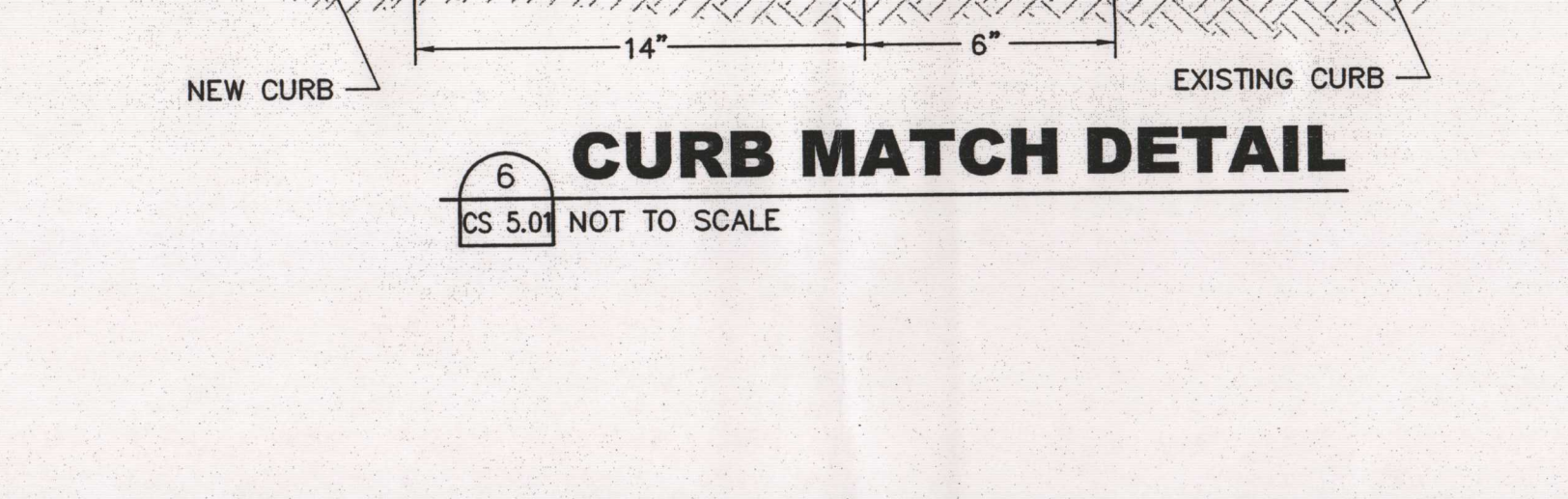
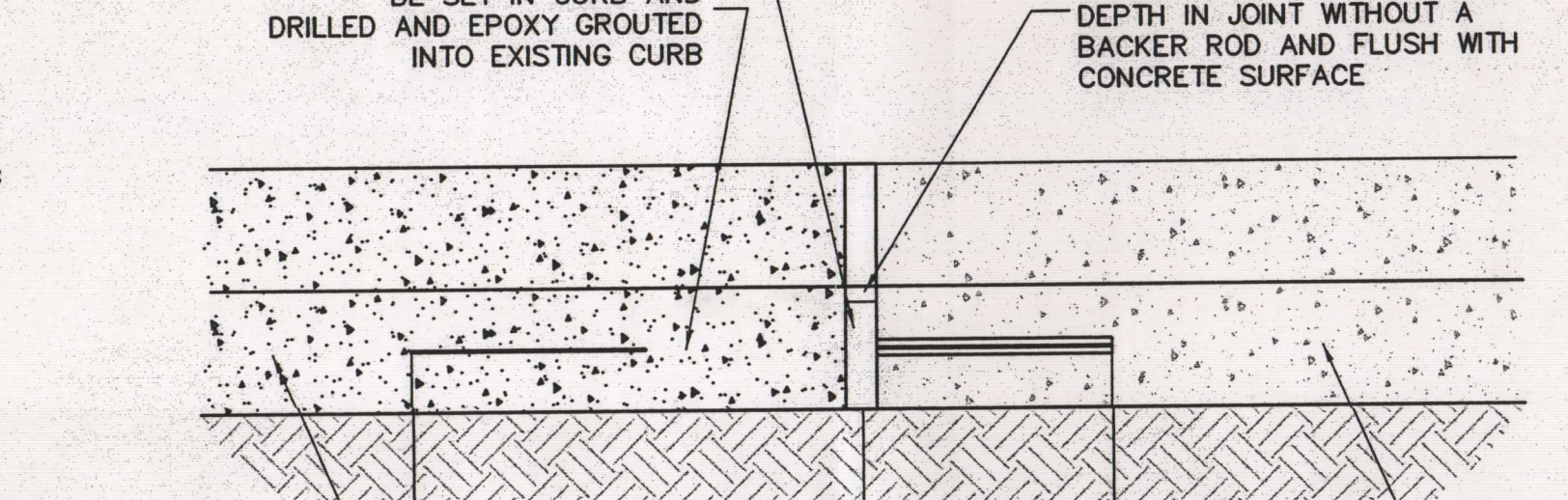
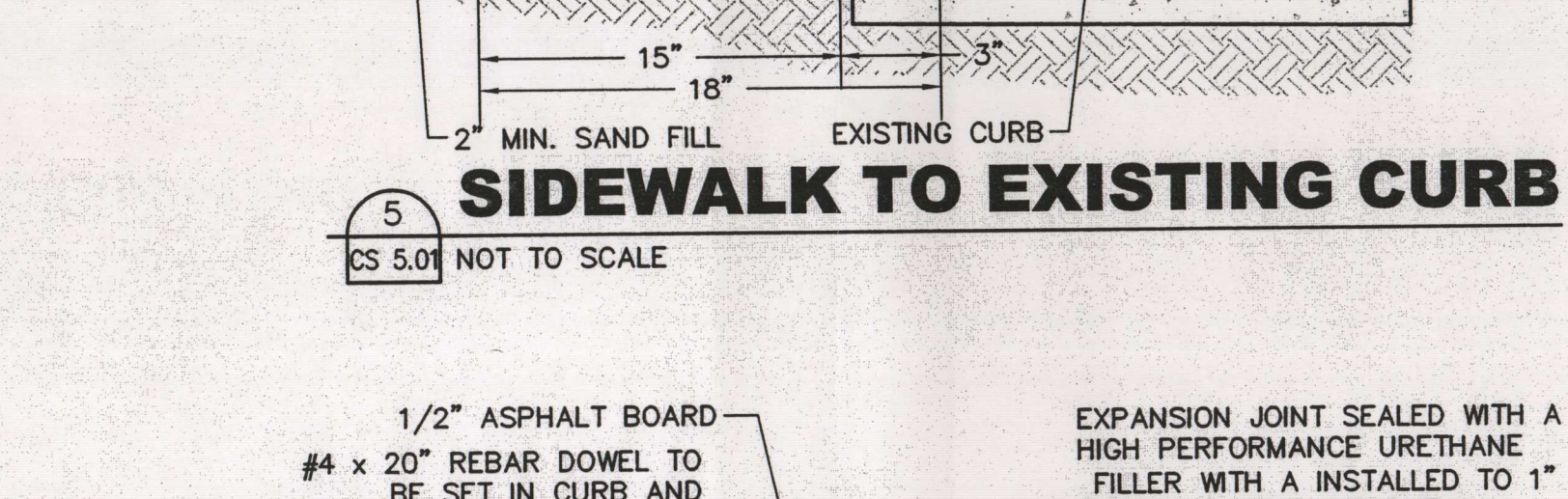
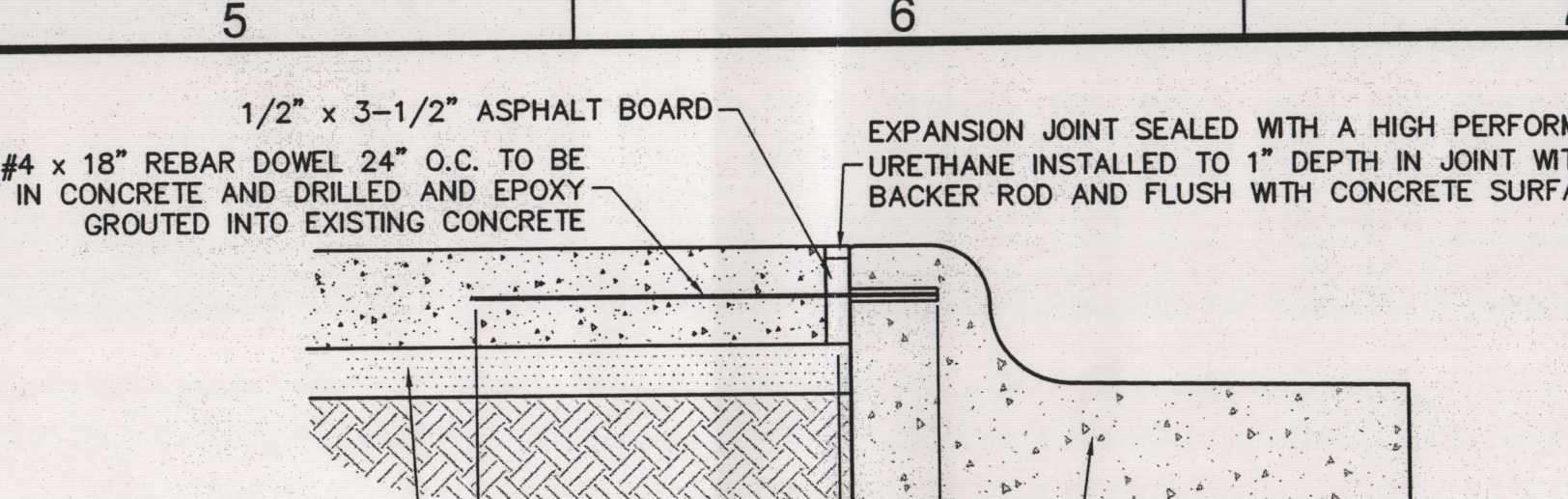
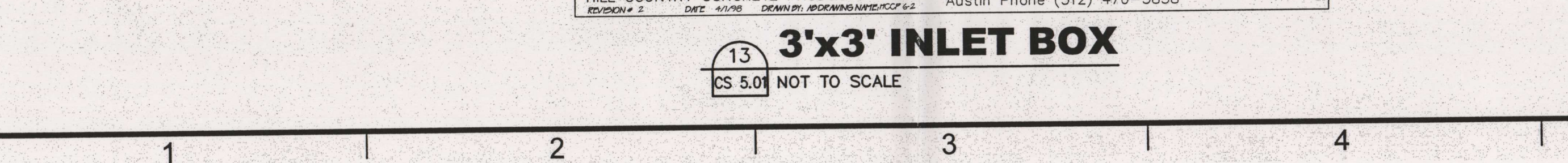
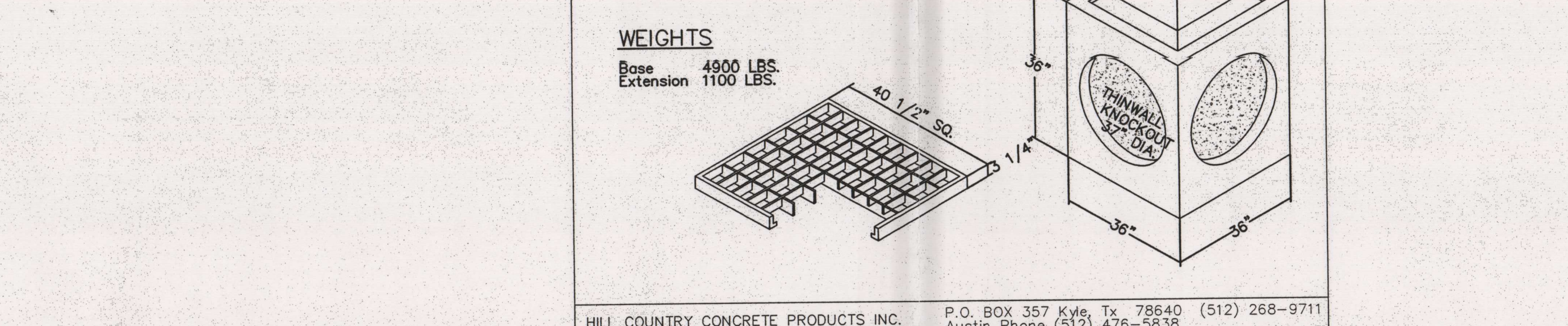
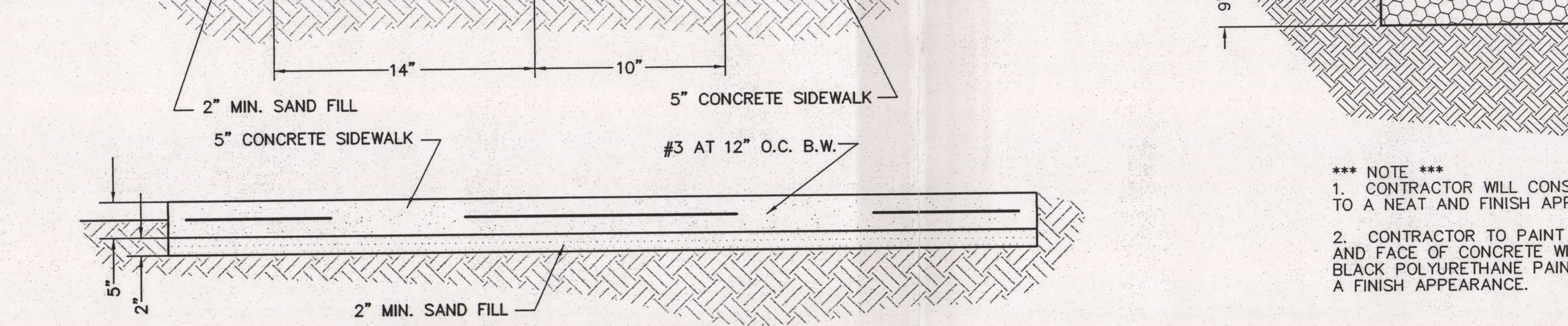
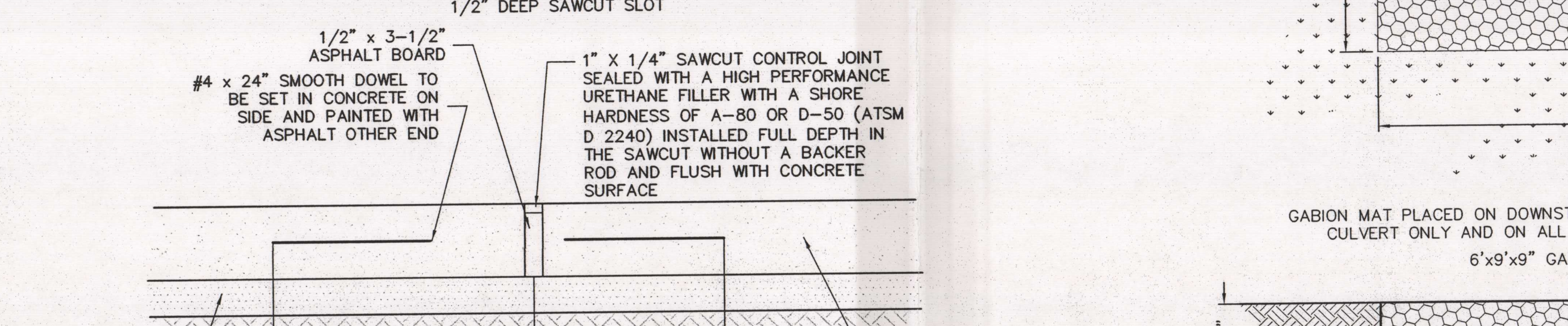
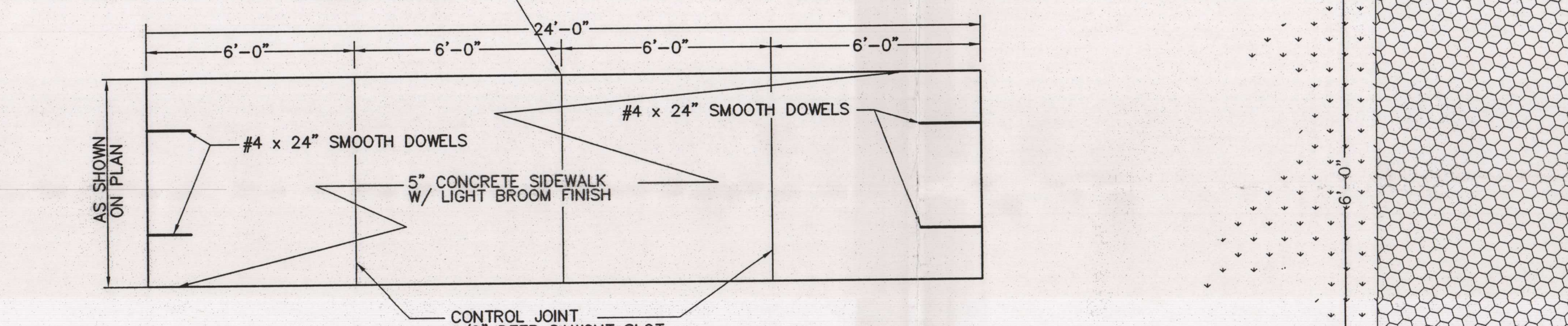
PROPOSED FLOW

SILT FENCE



CONCRETE PAVEMENT DETAILS

SCORED JOINTS AT 6' ON CENTER BOTH WAYS WHEN CONCRETE SIDEWALK FLATWORK IS WIDER THAN 6'.
 1"x4" REDWOOD CONTROL JOINT AT 30' ON CENTER BOTH WAYS WHEN CONCRETE SIDEWALK FLATWORK IS WIDER THAN 30'.



NOTES:
HOT MIX ASPHALTIC CONCRETE
 THE H.M.A.C. SHALL BE PLANT MIXED, HOT LAID, TxDOT ITEM 340, TYPE-D (FINE GRADED SURFACE COURSE), MIXED FOR A STABILITY OF AT LEAST 35. THE REQUIRED THICKNESS SHALL CONSIST OF COMPACTED H.M.A.C. MATERIAL TO A MAXIMUM THEORETICAL DENSITY BETWEEN 91 AND 97 PERCENT AS MEASURED BY ASTM D 2041.
REINFORCED CONCRETE
 CONCRETE SHALL BE DESIGNED FOR AT LEAST 500 PSI FLEXURAL STRENGTH (3 POINT LOADING) AT 28 DAYS. FLEXURAL STRENGTH MAY BE APPROXIMATED FROM ACI 308R FORMULA GIVEN ON SPECIFICATIONS. HOWEVER, THE ACTUAL RELATIONSHIP BETWEEN FLEXURAL AND COMPRESSIVE STRENGTH OF CONCRETE SHALL BE DETERMINED IN THE LABORATORY. REINFORCEMENT SHALL BE DEFORMED BARS OF BILLET OR RAIL STEEL GRADE 60 CONFORMING TO ASTM A615, A616, OR A617 SPECIFICATIONS. AS AN OPTION, A 28-DAY COMPRESSIVE STRENGTH REQUIREMENT OF 4,000 PSI WILL BE ALLOWED.
CRUSHED LIMESTONE BASE
 BASE MATERIAL SHOULD BE COMPOSED OF CRUSHED LIMESTONE MEETING THE REQUIREMENTS OF TxDOT ITEM 247, TYPE A, GRADE 1 OR COA STANDARD SPECIFICATIONS ITEM 210. THE BASE SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED MOISTURE/DENSITY RELATION (ASTM D 1557) AT -3 TO +3 PERCENT OF OPTIMUM MOISTURE CONTENT.
MOISTURE CONDITIONED SUBGRADE
 SOIL SUBGRADE AREAS SHOULD BE SCARIFIED TO A DEPTH OF 6", MOISTURE ADJUSTED, AND THEN RECOMPACTED TO A LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. EXPOSED STRATUM I DARK BROWN TO BROWN CLAY SUBGRADE AREAS SHOULD BE MOISTURE CONDITIONED TO BETWEEN OPTIMUM AND +4 PERCENT OF OPTIMUM MOISTURE CONTENT. EXPOSED STRATUM II TAN AND GRAY SILTY/MARLY CLAY SUBGRADE AREAS SHOULD BE MOISTURE CONDITIONED TO BETWEEN -3 TO +3 PERCENT OF OPTIMUM MOISTURE CONTENT.
HIGH PERFORMANCE URETHANE
 W/ A SHORE HARDNESS OF A-80 OR D-50 (ATSM D 2240) ONE INCH DEEP
 1/2" PREMOLDED ASPHALTIC EXPANSION JOINT

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 CS 5.01 NOT TO SCALE

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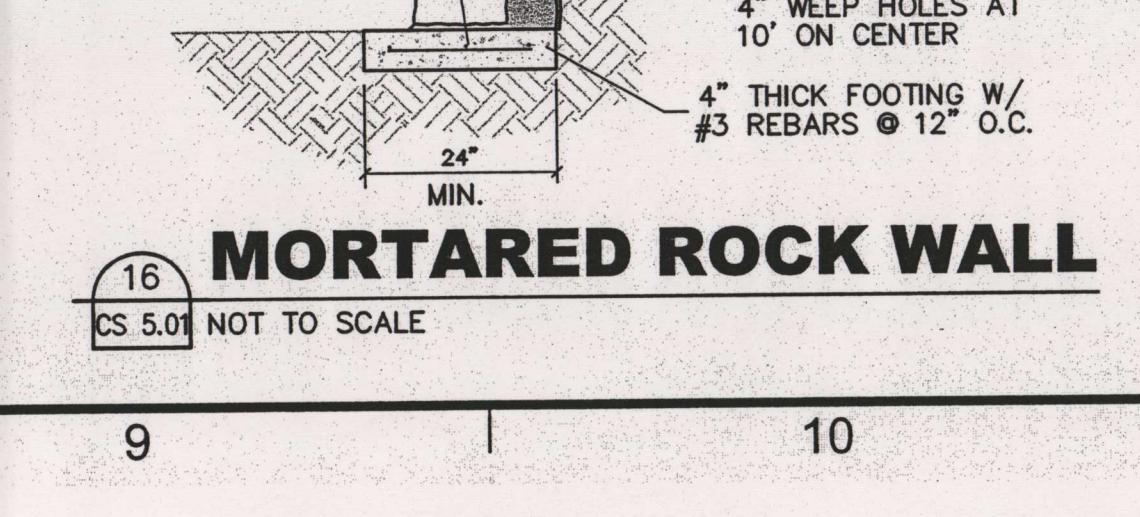
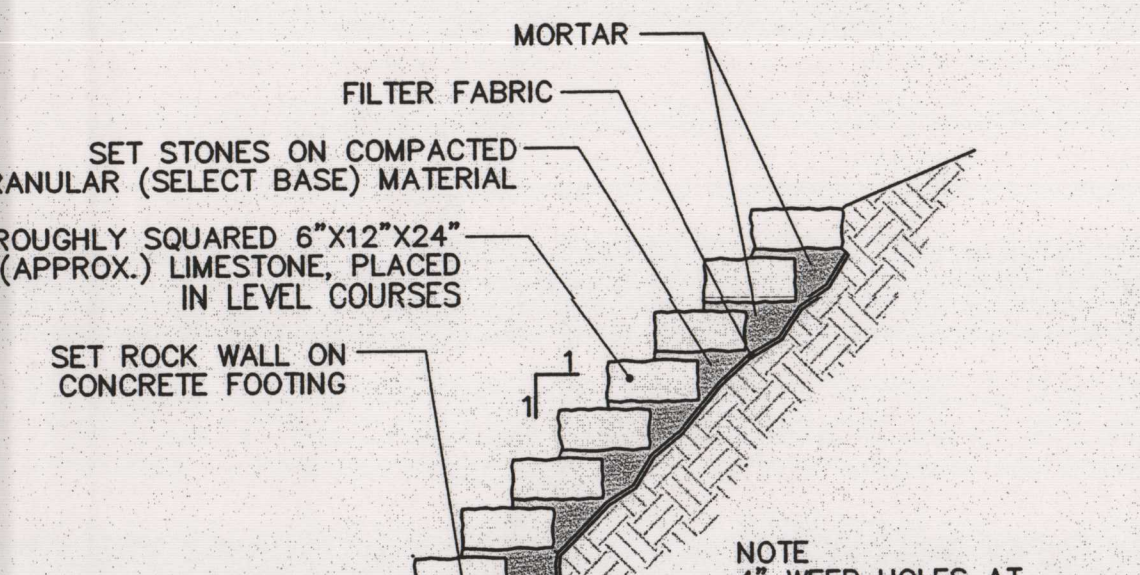
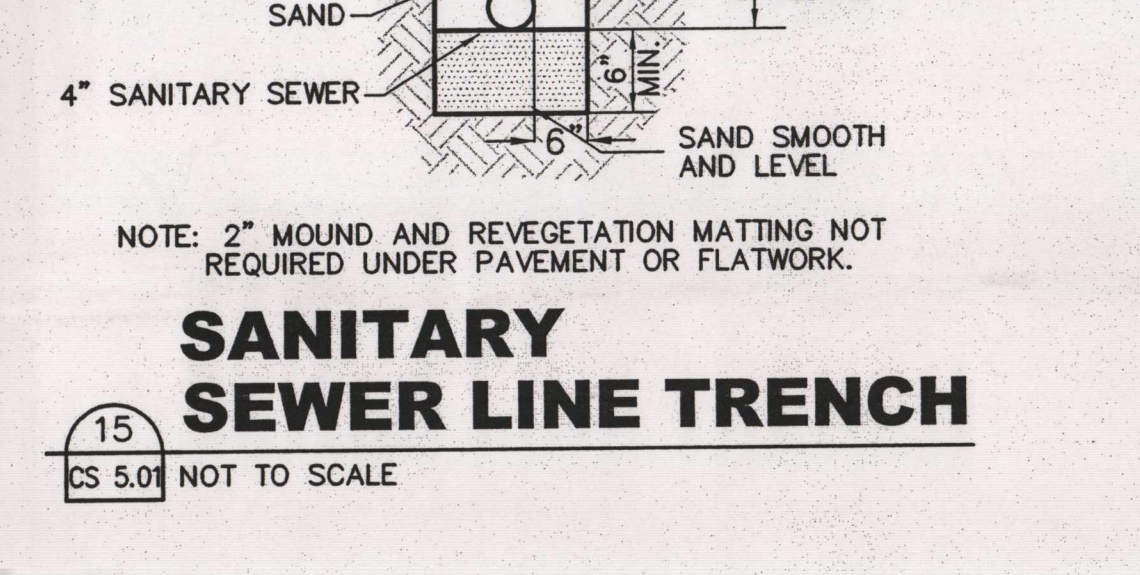
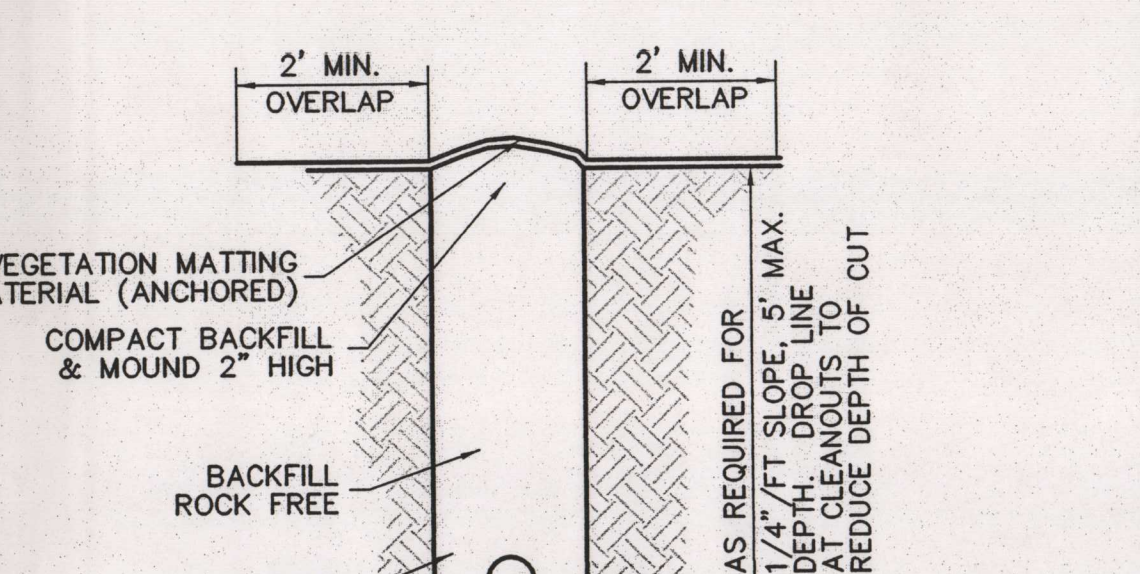
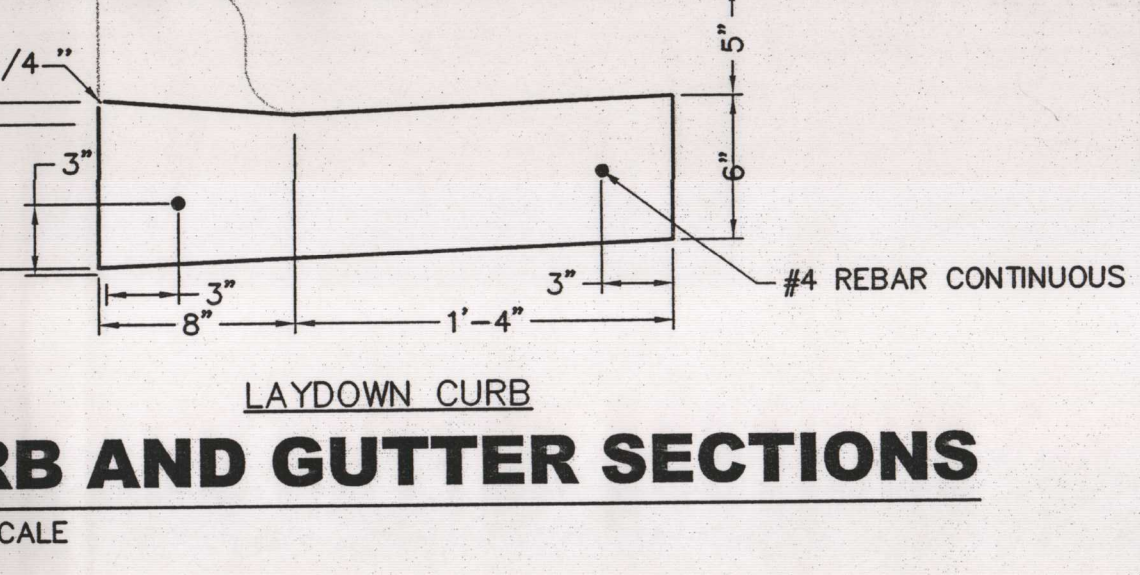
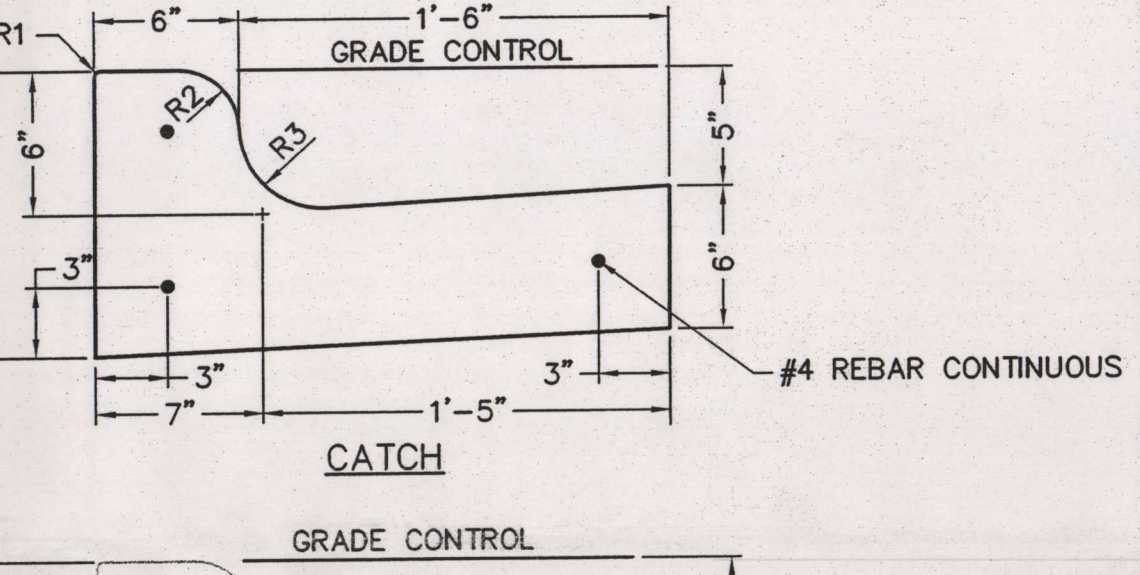
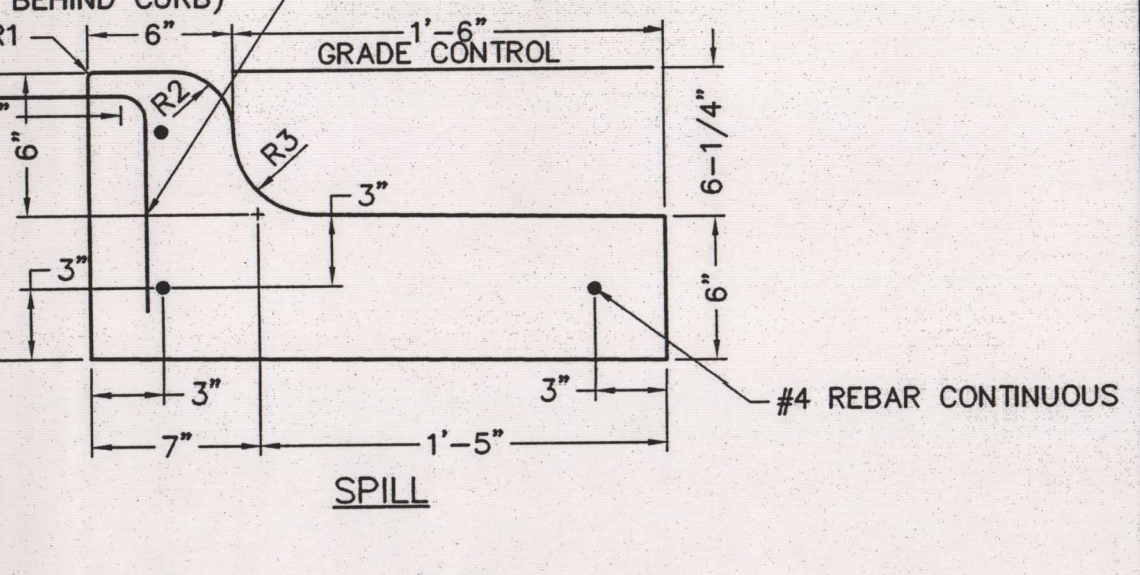
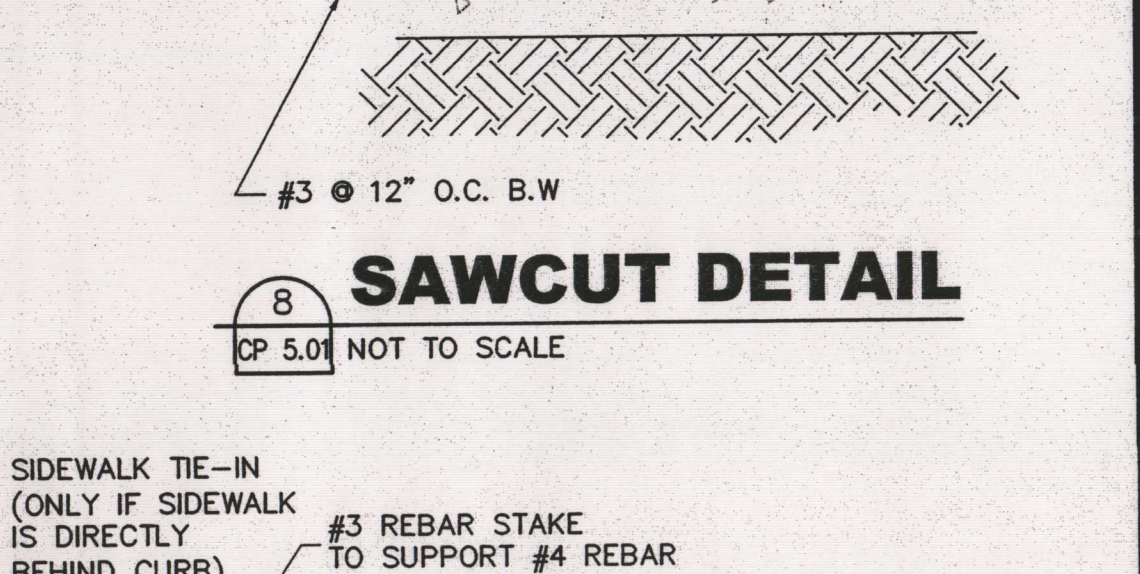
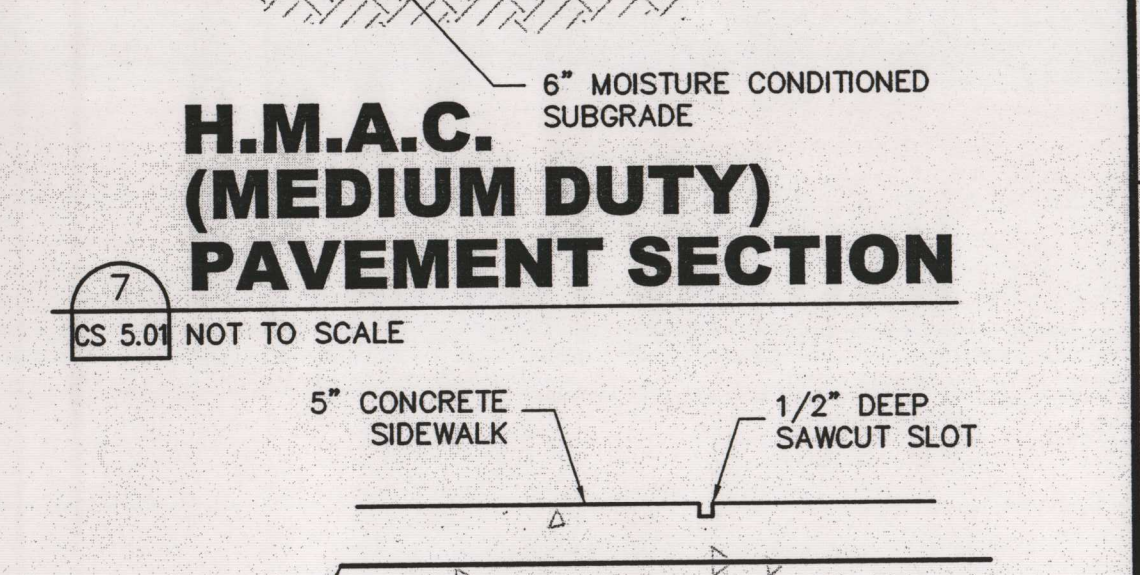
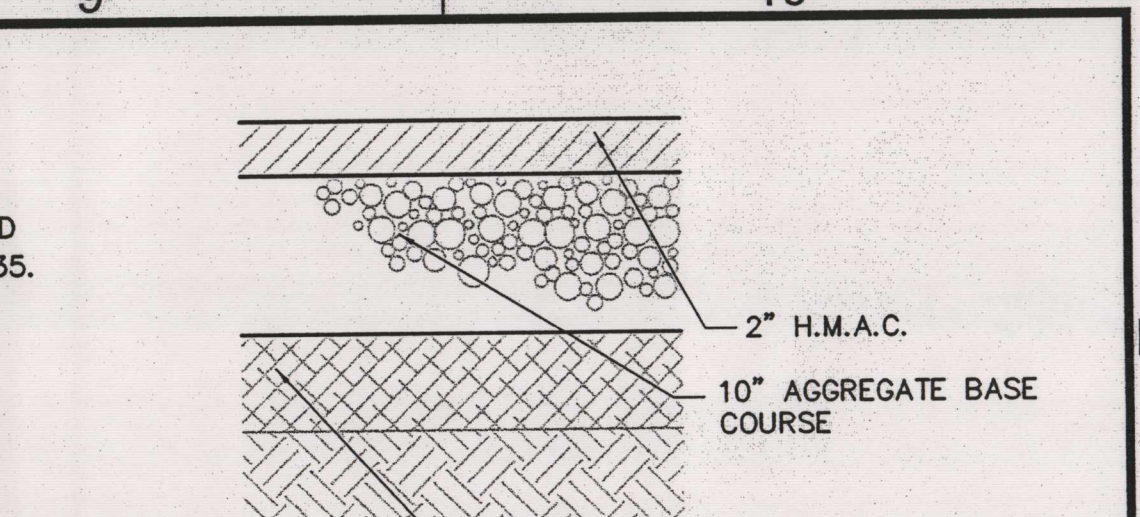
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 CONSULTING ENGINEERS - SURVEYORS
STRUCTURAL:
 JASTER-QUINTANILLA & ASSOC. INC.
MEP:
 DBR ENGINEERING CONSULTANTS

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COMAL ISD

SMITHSON VALLEY MIDDLE SCHOOL
 ADDITIONS AND RENOVATIONS

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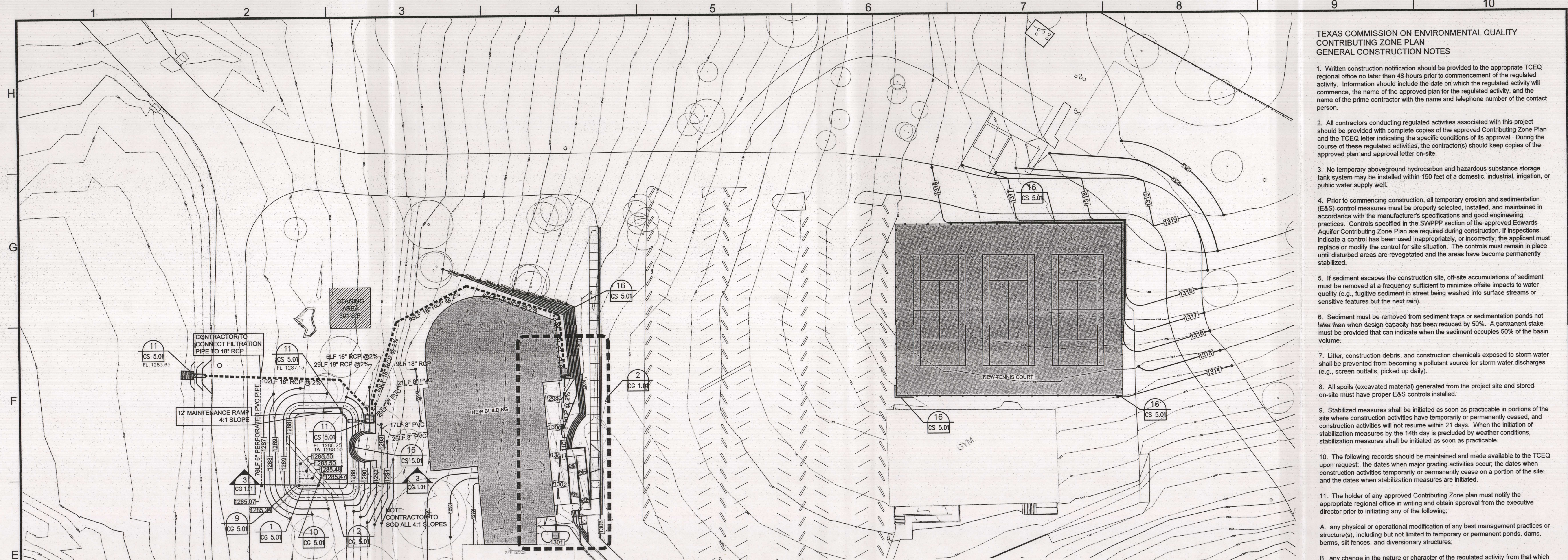
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SHW Project

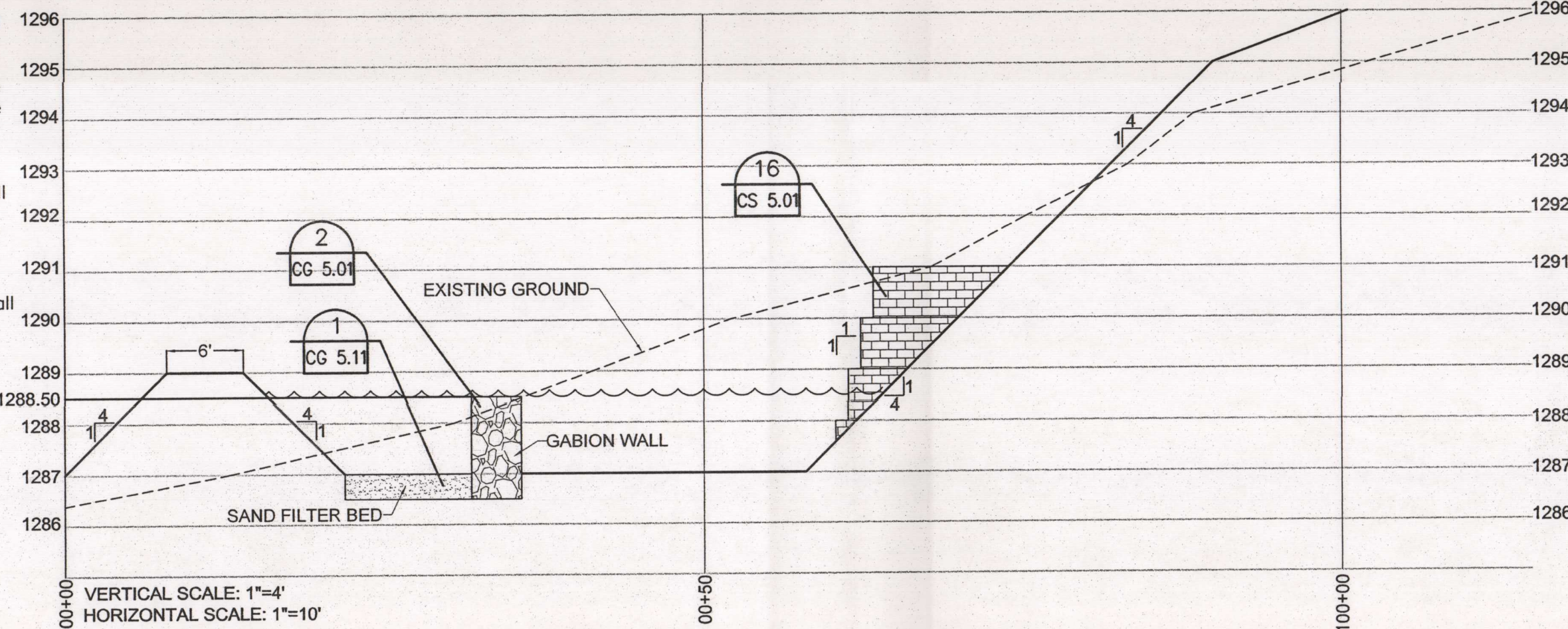
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DRAINAGE AND GRADING PLAN

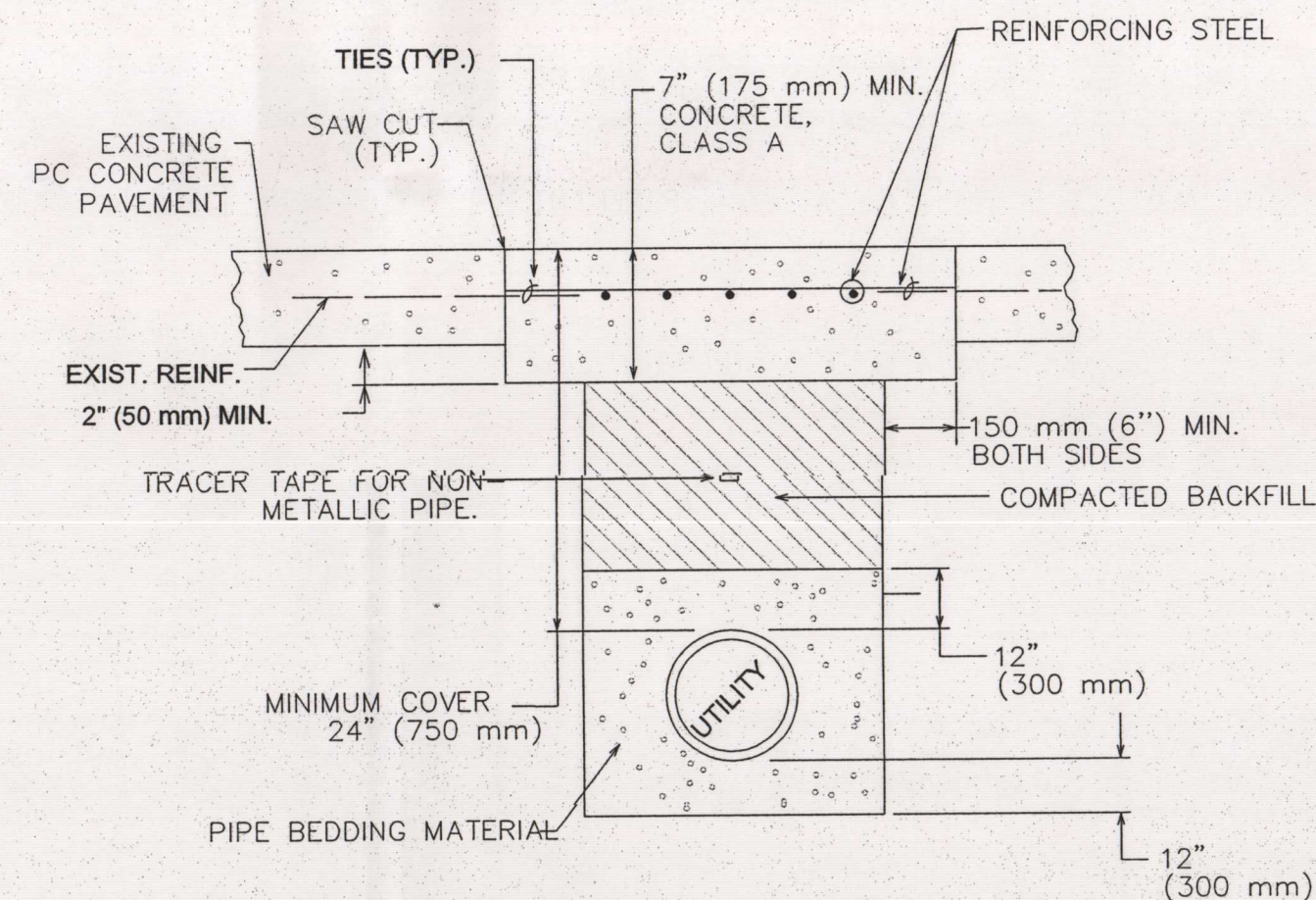
CG 1.0 SCALE: 1" = 30'

Note: An impermeable liner is required for the entire environmental pond (filtration and sedimentation basins only). Impermeable liner shall be 30 mil minimum thickness UV resistant geomembrane liner, approved for the purpose of use in environmental ponds. The liner shall be applied on smooth, compacted subgrade, with geotextile fabric placed on top and bottom of geomembrane for puncture protection. No rocks or protrusions of any kind will be allowed on the liner. The liner shall be installed with the geotextile fabric on top and bottom shall be placed a minimum of 6" below the finish grade shown and extend up to the inside vertical face of the wall. A minimum of 6" shall be placed on the top of the wall. The liner shall be installed to the finished grade shown here. The installed liner shall have no cracks when hydrostatic tested after placement. Any leaks found shall be repaired by the manufacturer of the pond liner manufacturer and the TCEQ and tested for NO leaks.



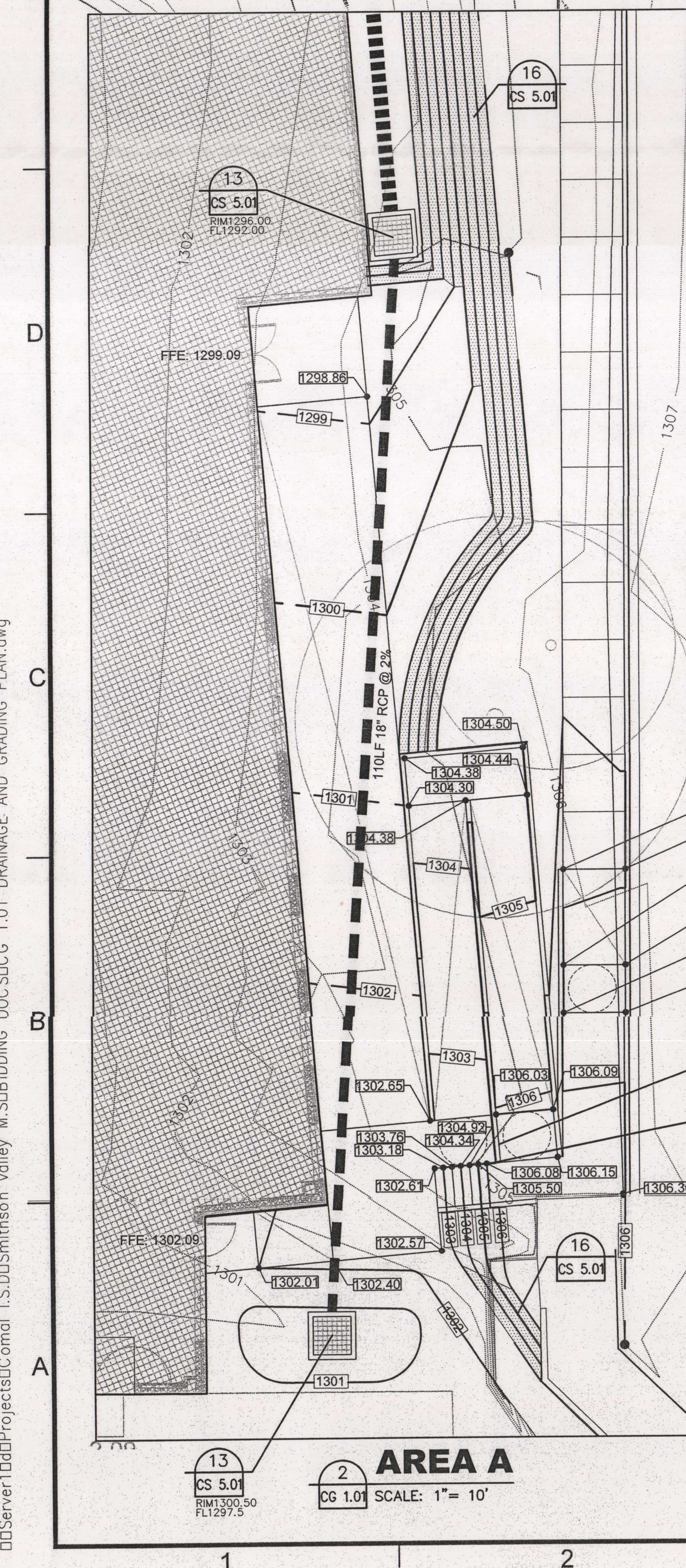
FILTRATION AND SEDIMENTATION POND SECTION

CG 1.01 SCALE: 1" = 10'



CONCRETE STREET REPAIR

CG 1.01 NOT TO SCALE



AREA A

CG 1.01 SCALE: 1" = 10'

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
CONTRIBUTING ZONE PLAN
GENERAL CONSTRUCTION NOTES

1. Written construction notification should be provided to the appropriate TCEQ regional office no later than 48 hours prior to commencement of the regulated activity. Information should include the date on which the regulated activity will commence, the name of the approved plan for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person.
2. All contractors conducting regulated activities associated with this project should be provided with complete copies of the approved Contributing Zone Plan and a CSEJ label indicating the specific conditions of its approval. During the course of these regulated activities, the contractor(s) should keep copies of the approved plan and approval letter on-site.
3. No temporary aboveground hydrocarbon and hazardous substance storage tank system may be installed within 150 feet of a domestic, industrial, irrigation, or public water supply well.
4. Prior to commencing construction, all temporary erosion and sedimentation (E&S) control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. Controls specified in the SWPPP section of the approved Edwards Aquifer Contributing Zone Plan are required during construction. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situation. The controls must remain in place until disturbed areas are revegetated and the areas have become permanently stabilized.
5. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into streams or sensitive features but the next rain).
6. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake must be provided that can indicate when the sediment occupies 50% of the basin volume.
7. Litter, construction debris, and construction chemicals exposed to storm water shall be prevented from becoming a pollutant source for storm water discharges (e.g., screen outlets, picked up daily).
8. All soils (excavated material) generated from the project site and stored on-site must have proper E&S controls installed.
9. Stabilized measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.
10. The following records should be maintained and made available to the TCEQ upon request: the dates when major grading activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; and the dates when stabilization measures are initiated.
11. The holder of any approved Contributing Zone Plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:
 - A. any physical or operational modification of any best management practices or structure(s), including but not limited to temporary or permanent ponds, dams, berms, sill fences, and diversionary structures;
 - B. any change in the nature or character of the regulated activity from that which was originally approved;
 - C. any change that would significantly impact the ability to prevent pollution of the Edwards Aquifer and hydrologically connected surface water; or
 - D. any development of land previously identified in a contributing zone plan as undeveloped.

Austin Regional Office	San Antonio Regional Office
2800 S. IH 35, Suite 100	14250 Judson Road
Austin, Texas 78704-5712	San Antonio, Texas 78233-4480
Phone (512) 339-2929	Phone (210) 490-3096
Fax (512) 339-3795	Fax (210) 545-4329

Consultants:

CIVIL:
GI Engineering Associates, Inc.
CONSULTING ENGINEERS - SURVEYORS

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STRUCTURAL:
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MEP:
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COMAL **ISD**

**SMITHSON VALLEY
D MIDDLE SCHOOL**
ADDITIONS AND RENOVATIONS

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Revisions

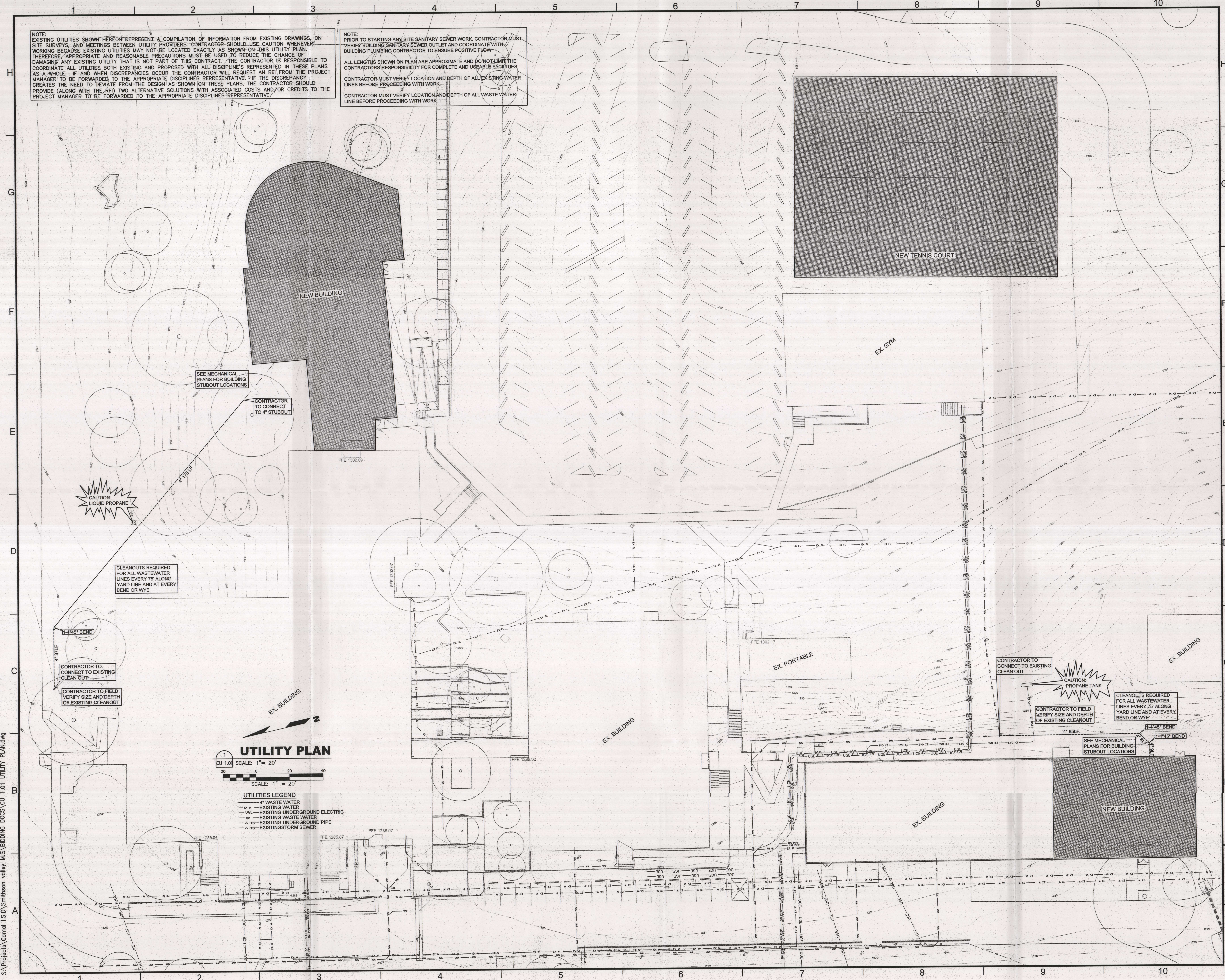
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GRADING PLAN**

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SHW Project

4306.002.00



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ENGINEER: VICTOR M. GIL
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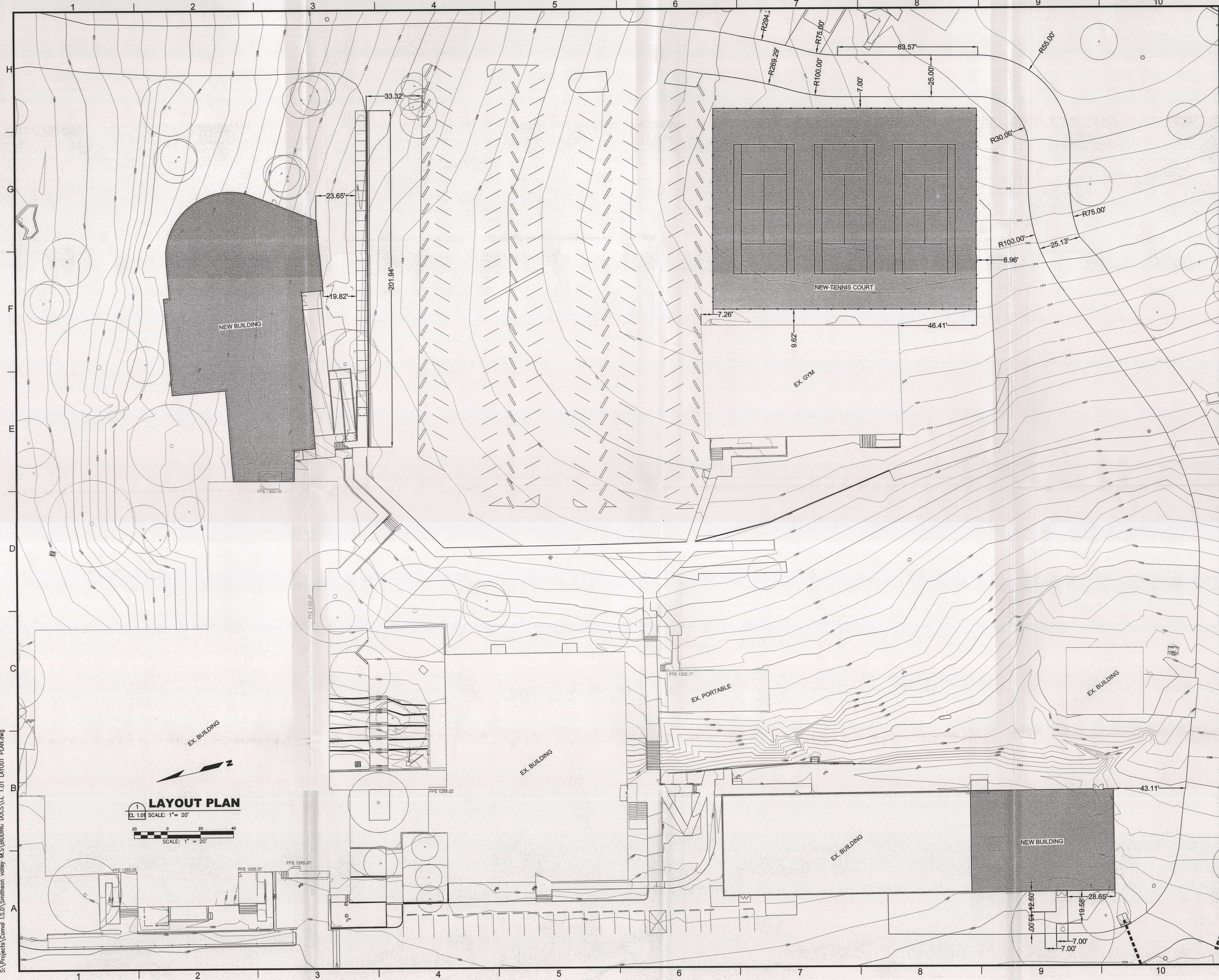
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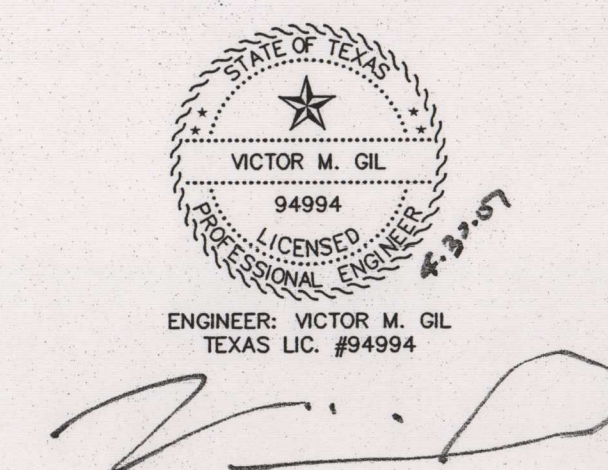


LAYOUT PLAN
CL 1.01 SCALE: 1" = 20'
SCALE: 1" = 20'

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**SMITHSON VALLEY
MIDDLE SCHOOL**
ADDITIONS AND RENOVATIONS

SHW Project Number:
Drawing Date: 08 MARCH 2007

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LAYOUT PLAN

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SAN ANTONIO

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SHW Project: 4306.002.00

Inspection, Maintenance, Repair and Retrofit Plan

Sedimentation Basins

- Monthly: The vegetative growth in the basin shall be checked. The growth shall not exceed 18 inches in height.
- Quarterly: The level of accumulated silt shall be checked. If depth of silt exceeds 6 inches, it shall be removed and disposed of "properly" and in an "approved" location.
- The basin shall be checked for accumulation of debris and trash. The debris and trash shall be removed if excessive. All debris and trash shall be removed at least every six months.
- Annually: The basin shall be inspected for structural integrity and repaired if necessary.
- After Rainfall: The basin shall be checked after each rainfall occurrence to insure that it drains within 48 hours after the storm is over. If it does not drain within this time, corrective maintenance will be accomplished.

Filtration Basins

- Monthly: The vegetative growth in the basin shall be checked. The growth shall not exceed 18 inches in height.
- Quarterly:
- The accumulation of pollutants/oils shall be checked. If the pollutants have significantly reduced the designed capacity of the sand filter, the pollutants shall be removed.
- The level of accumulated silt shall be checked. If depth of silt/pollutants exceeds 1/2 inch, it shall be removed and disposed of "properly" and in an "approved" location.
- The basin shall be checked for accumulation of debris and trash. The debris and trash shall be removed if excessive. All debris and trash shall be removed at least every six months.
- Annually: The basin shall be inspected for structural integrity and repaired if necessary. Filter underdrain piping network shall be cleaned to remove sediment buildup.

After Rainfall: The basin shall be checked after each rainfall occurrence to insure that it drains within 48 hours. If it does not drain within this time, corrective maintenance will be accomplished.

Following any required maintenance, the surface of the filtration basin shall be raked and leveled to restore the system to it designed condition.

"Proper" disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality and City of New Braunfels / Comal County guidelines and specifications.

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information

Responsible Party:	Thomas Bloxham
Entity	Comal ISD
Mailing Address	1404 IH 35 North
City, State, Zip Code	New Braunfels, Texas 78130
Telephone:	(830) 221-2039 FAX:


Signature of Responsible Party

6-13-07
Date

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

Gabion mats will be placed at ends of pipes to minimize surface stream contamination and minimize any changes in the way water enters a stream.

All measures were designed and included in accordance with the Comal County guidelines and requirements for minimizing surface stream contamination.

STORM WATER POLLUTION PREVENTION PLAN

SMITHSON VALLEY MIDDLE SCHOOL ADDITIONS AND RENOVATIONS
Spring Branch ▪ Comal County

D.L. Bandy Constructors, Inc.
P.O. Box 1529 ▪ San Marcos, TX 78667

PREPARED BY



PO Box 142254
Austin, TX 78714
512-339-3293
EcoSvs.com



IMPORTANT

Retain this complete document for
three years after project completion

Storm Water Pollution Prevention Plan INTRODUCTION AND BACKGROUND

In 1972, Congress passed the Federal Water Pollution Control Act, also known as the Clean Water Act (CWA), to restore and maintain the quality of the nation's waters. The ultimate goal of the CWA was to ensure the nation's rivers and streams were fishable, swimmable, and drinkable. The CWA has been amended several times.

One important set of amendments was the Water Quality Act of 1987 that established a phased approach for storm water discharge regulation in the United States. The CWA established the National Pollutant Discharge Elimination System (NPDES), a storm water program which requires operators of construction sites disturbing one acre or more to obtain authorization to discharge under an NPDES construction storm water permit. The development and implementation of storm water pollution prevention plans (SWPPP) is the focus of NPDES storm water permits for regulated construction activities. The Texas Commission on Environmental Quality is authorized in the state of Texas to implement the NPDES program under the Texas Pollutant Discharge Elimination System (TPDES) Construction General Permit No. TXR150000.

Development, implementation, and maintenance of the SWPPP provides the framework for reducing soil erosion and minimizing pollutants in storm water during construction. The SWPPP describes and ensures the implementation of practices that will be used to reduce the pollutants in storm water discharges associated with construction activity at the construction site, and assure compliance with the terms and conditions of the TCEQ TPDES program for construction sites.



Construction EcoServices is a solutions oriented company focused on delivering innovative answers to storm water quality management problems. From turnkey SWPPP compliance services that relieve the regulatory burden on General Contractors during construction activity; to post-construction solutions for Civil Engineers that provide new answers for storm water quality treatment, slope and channel stabilization and underground detention; our objective is always the same—lowering total costs of compliance while raising compliance performance through the application of innovation and a service driven culture.

Storm Water Pollution Prevention Plan
DEVELOPED UNDER TPDES CONSTRUCTION GENERAL PERMIT TXR150000

Section 1 PROJECT AND RESPONSIBLE PARTIES

Data sheet

Section 2 SITE DESCRIPTION

Site location

Existing condition

Site area estimates

- Total area
- Total disturbed area

Runoff factors

- Soil type
- Pre-construction estimate
- Post-construction estimate
- Calculations

Description of construction activity

Intended sequence of major construction activity

Major grading activities record

Section 3 MAPS AND SITE PLANS

General location map

Site plans

- Drainage patterns and approximate slopes anticipated
- Areas of soil disturbance
- Areas not to be disturbed
- Location of major structural/non-structural controls
- Areas where stabilization practices are expected to occur
- Location of off-site material, waste, borrow or storage, if any
- Surface water, including wetlands, if any
- Location where storm water is discharged into surface water

Receiving waters, wetlands or special aquatic sites

Support facilities, if any

Industrial activity other than construction, if any

Endangered or threatened species or critical habitats, if any

Historic places, if any

Section 4 CONTROLS

Erosion and sedimentation controls

- Short and long term goals and criteria

Stabilization practices

- Short and long term goals and criteria
- Interim and permanent stabilization practices for this site

Structural practices

- Sequence of major erosion and sedimentation control activities

Permanent storm water management

Other controls

- Waste disposal

- Waste disposal compliance
 - Off-site vehicle tracking
 - Dewatering
 - Dust control
 - Pollutant sources from support activities and controls
 - Measures to protect certain species or habitat, if any
 - Measures to protect historical sites, if any
- Approved state, tribal or local plans

Section 5 MAINTENANCE

Maintenance description and schedule

Section 6 SITE INSPECTIONS

Scope of inspections
 Schedule of inspections
 SWPPP modifications as a result of inspections
 Inspection Report format and copy of form to be utilized

Section 7 SPECIAL CONDITIONS

Non-storm water discharges
 Spill prevention

- Good housekeeping practices
- Hazardous product practices
- Product specific practices
- Spill prevention practices

 Releases in excess of reportable quantities

- Potential pollutants

 Spill response plan

- Leak or spill
- Point of contact in case of reportable quantity release
- Reportable quantities guidance
- Reporting guidance

Section 8 STANDARD SPECIFICATIONS

Perimeter controls
 Inlet protection
 Flow controls
 Ingress/egress controls
 Concrete washout
 Stabilization measures

Section 9 TPDES GENERAL PERMIT

Copy of Construction General Permit TXR150000

Section 10 CERTIFICATIONS AND DOCUMENTS

SWPPP Operator Certifications

- Operator Certification
- Delegation of Inspection Authority

 Inspector Certification and Qualifications
 Copy of Notice of Intent/Construction Site Notice
 Copy of MS4 notification letter

Section 11 SWPPP AMENDMENTS LOG

Log of major modifications, if any, to this SWPPP

Section 12 INSPECTION RECORDS

Completed Inspection Reports

PROJECT AND RESPONSIBLE PARTIES INFORMATION

PROJECT NAME AND LOCATION

Smithson Valley Middle School Additions and Renovations
6101 FM 311
Spring Branch, TX 78070

OWNER NAME AND CONTACT INFORMATION

Comal ISD
1401 IH 35 North
New Braunfels, TX 78130

OPERATOR NAME AND CONTACT INFORMATION

D.L. Bandy Constructors, Inc.
P O Box 1529
San Marcos, TX 78667

Jim McCown
512-738-0390

SITE LOCATION

The construction site is located at 6101 FM 311 within the Spring Branch city limits in Comal County. The property is located south of Weidner Road at the existing Smith Valley Middle School.

Latitude: 29.82114° N

Longitude: 98.34573° W

EXISTING CONDITIONS

The area to be disturbed is an existing middle school that will be expanded.

SITE AREA ESTIMATES

The total site area is approximately 2.5 acres. The area that will be disturbed is approximately 2.5 acres.

RUNOFF FACTORS

The project site lies within Comal County. According to the Soil Report, the soil on this site is described as residual soil and weathered limestone of the Glen Rose Formation.

The Pre-construction Runoff Coefficient "C" for the site is:

- 30

The Weighted Runoff Coefficient "C" for the overall project after construction, including utilized and reserved areas, is calculated as:

- 95

CONSTRUCTION ACTIVITY

This project entails the construction of two new buildings added to the existing Smithson Valley Middle School.

INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITY

The Construction Schedule for this project can be found at the back of this section.

Notations as to ongoing grading and other site work activities can be found in both the weekly SWPPP Inspection Reports and in the Project Superintendent's daily report on the status of this project and may be referenced therein as a part of the documentary record called for by TXR150000.



Construction Schedule

Mobilization	August 1, 2007
Temporary Protection	August 1, 2007
Excavate Sedimentation Pond	September 1, 2007
Underground Utilities	September 15, 2007
Pad Excavation	October 1, 2007
Pour Concrete	December 1, 2007
Construct Building	December 5, 2007
Final Grading	May 1, 2008
Paving and Sealcoat	May 15, 2008
Revegetation	June 1, 2008
Final Stabilization	June 30, 2008

MAJOR GRADING AND OTHER SITEWORK ACTIVITIES

ACTIVITY	BEGIN DATE	END DATE
Demolition		
Clearing		
Rough Grade		
Underground Utilities		
Pad Preparation		
Paving Preparation		
Concrete Placement		
Final Grading		
Landscaping		
Final Stabilization		

GENERAL LOCATION MAP

Site location maps are located behind this page. If new site locations are identified later during construction, the location maps and this SWPPP will be revised as appropriate.

SITE PLANS

All available of site plans and related construction drawings, which provide information on site conditions, drainage and stabilization are located behind this page. If new construction drawings are made available later during construction, relevant drawings will be added to this section and this SWPPP will be revised as appropriate.

RECEIVING WATERS, WETLANDS AND SPECIAL AQUATIC SITES

This project is located in the Guadalupe River above Canyon Lake watershed which ultimately receives storm water runoff from the site through the existing storm sewer system. There are no existing wetlands or other special aquatic sites at or near this site.

This site is located over the Contributing Zone. A contributing Zone Plan has been completed and approved for this project and is incorporated here via reference.

SUPPORT FACILITIES

Concrete for this site will be provided by:

Ingram Readymix

Select Fill for this site will be sourced from:

Cemex

Asphalt, if any, for this will be provided by:

Vulcan

INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION

There will be no discharge at this site that is associated with any activity other than construction.

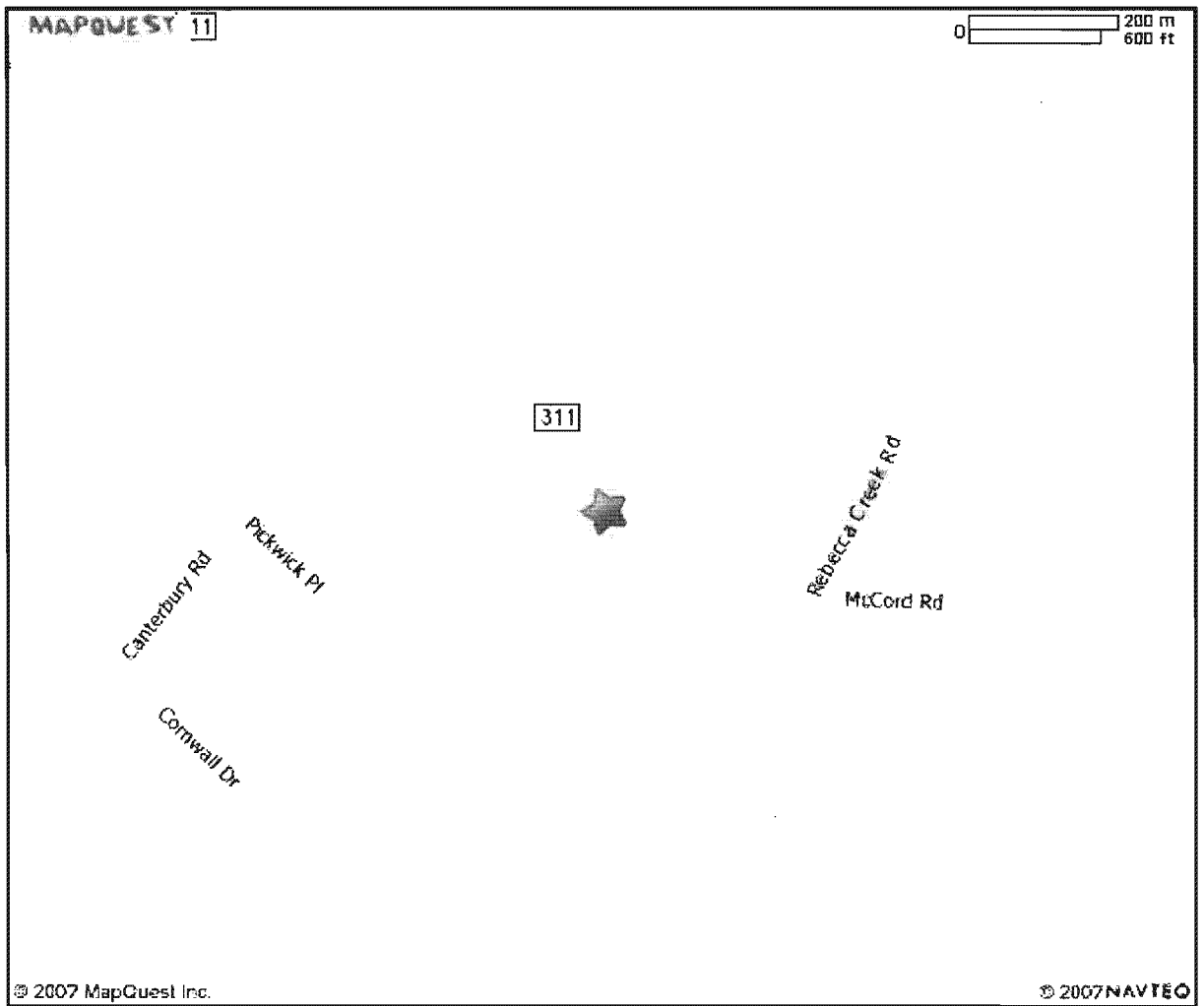
ENDANGERED OR THREATENED SPECIES OR CRITICAL HABITATS

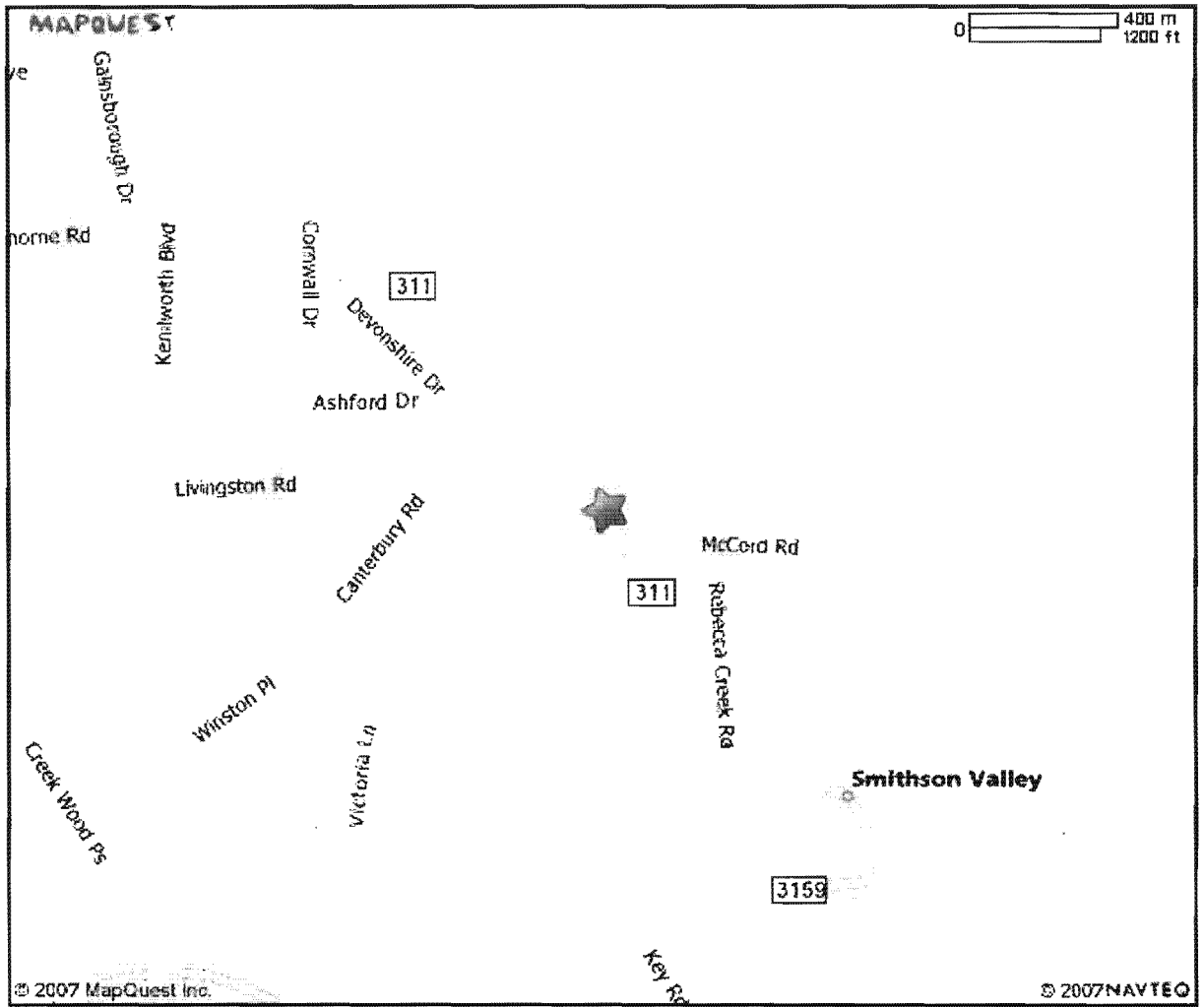
There are no endangered or threatened species or critical habitats known to exist at this site. However, if any are discovered, this SWPPP will be revised to reflect such information.

HISTORIC PLACES

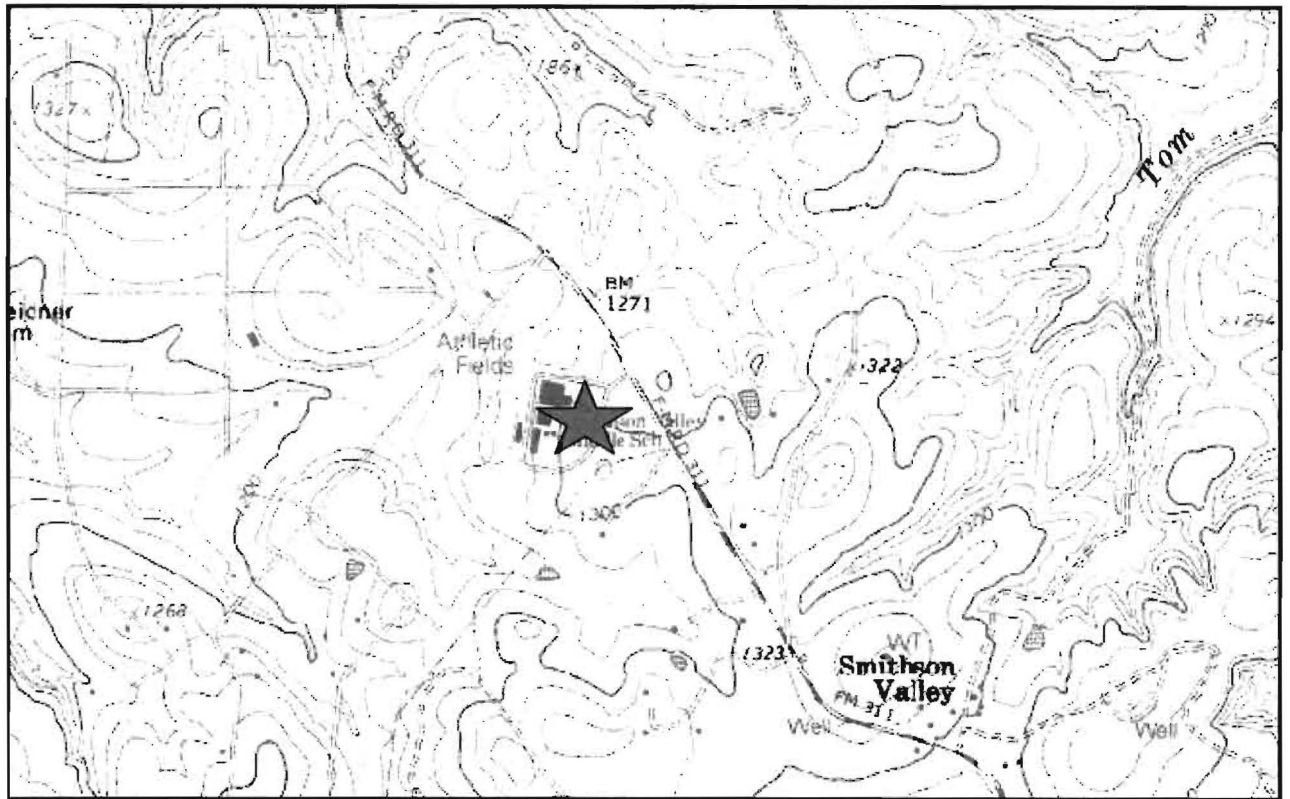
There are no historic sites known to exist at this site. However, if any historic sites are discovered, this information will be revised to reflect such information.

MAPS AND DRAWINGS REPLACE THIS PAGE









EROSION AND SEDIMENTATION CONTROLS

Major erosion and sedimentation controls are indicated on the SWPPP Site Plan, located in the previous section.

Short and Long Term Goals and Criteria:

- Sediment will be retained on site to the maximum extent practical with consideration for site topography and rainfall.
- Control measures will be properly selected, installed, and maintained in accordance with manufacturers' specifications and good engineering practices. If periodic inspections or other information indicates that a control is being used incorrectly, or that the control is performing inadequately, it will be replaced or modified immediately upon discovery.
- If sediment escapes the site, off-site accumulations will be removed at a frequency to minimize negative impacts and whenever feasible, prior to the next rain event.
- Sediment will be removed from sediment traps or sedimentation ponds when design capacity has been reduced by 50%.
- Litter, construction debris, and construction chemicals exposed to storm water will be removed, covered or otherwise prevented from becoming a pollutant source.
- Offsite materials storage areas, if used (also including overburden and stockpiles of dirt, borrow areas, etc.), are considered a part of the project and will be addressed in the SWPPP.

There are currently no plans for offsite material storage areas. Should this status change, this SWPPP will be revised as appropriate.

STABILIZATION PRACTICES**Short and Long Term Goals and Criteria:**

- Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased.
- Except as provided below, stabilization measures will be initiated within 14 days after construction activity in the applicable portion of the site has temporarily or permanently ceased:
 - When precluded by snow or frozen ground
 - When earth disturbing activities will be resumed within 21 days
 - In arid and semi-arid areas, and areas experiencing drought

Interim and Permanent Stabilization Practices for this Site include:

- Construction road access, staging and parking areas are to be constructed of 3x5 open graded rock.
- Newly graded areas will have textured soil surfaces to reduce sheet flow and improve surface water impoundment.
- Filter Fabric Fence will be used to protect temporary earth stockpiles while they are in use.
- Landscaping, consisting of sod, hydro-mulch, trees, shrubs, and miscellaneous plant material will be installed upon completion of construction.
- Existing trees will be protected.

STRUCTURAL PRACTICES

These practices will be utilized to divert flows away from exposed soils, to limit contact of runoff with disturbed areas, or to lessen the off-site transport of eroded soils.

- Reinforced Filter Fabric Fence will be erected at the perimeter of the area to be disturbed, as needed to prevent the escape of silt and sediment from the construction activity.
- Inlet Protection Barriers will be placed in existing storm drain inlets as needed to prevent silt and sediment from entering the storm sewer system.
- Inlet Protection Barriers will also be placed in new storm drain inlets as they are installed.

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

Sequence of Major Erosion and Sediment Control Activities

- Phase 1

The Filter Fabric Fence will be installed at the site boundaries where needed to prevent the escape of silt and sediment, prior to any disturbance of the soil on this site. Inlet Protection Barriers will be placed in existing storm drain inlets as needed.

- Phase 2

Inlet Protection Barriers will be placed in new storm drain inlets as they are installed. Odd-sized grates will be wrapped with non-woven geo-textile fabric. Flow Control Barriers will be installed at the detention pond outfall upon completion. Sod will be installed at the filtration and sedimentation pond slopes upon final grading.

- Phase 3

When construction activity is substantially complete, temporary structural controls will then be removed and all disturbed soils will be stabilized with plant material.

PERMANENT STORM WATER MANAGEMENT

The area surrounding the new building(s) will be planted with shrubs and other plant material providing flow attenuation and partial vegetative filtration in unpaved areas disturbed by construction activities. Additional measures shall be performed as required to ensure establishment of soil cover where evidence of erosion occurs.

A filtration and sedimentation pond will be installed in the northeast corner of the project, with an improved geomembrane liner of a least 30ml in thickness.

Storm water will discharge from the site by overland flow to the existing storm sewer system.

OTHER CONTROLS

Waste Disposal

- Waste Materials

All waste materials will be collected and stored in a metal dumpster provided by:

IESI

The dumpster will meet all local and state solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The trash and debris will be hauled to an approved landfill. No construction waste material will be buried or burned onsite. Maintenance work on vehicles/equipment will not be allowed onsite except for emergency repair. All construction personnel will be

instructed regarding the correct procedure for waste disposal. The Project Superintendent, who manages the day-to-day site operations, will be responsible for seeing that these procedures are followed.

- **Hazardous Waste**

No hazardous waste is expected to be generated or encountered in this project. In the event that hazardous waste is encountered, all hazardous waste materials will be disposed of in the manner specified by local or state regulation or by the manufacturer. The Project Superintendent, who manages day-to-day site operations, will be responsible for seeing that these practices are followed.

- **Sanitary Waste**

Sanitary portable units will be provided for use by construction personnel. Sanitary waste will be collected and disposed of offsite. A licensed sanitary waste management contractor:

United

will regularly collect all sanitary waste from the portable units.

- **Compliance with State, Tribal and Local Disposal Regulations**

Methods for collecting, hauling and disposing of spoil, waste material, sanitary and hazardous wastes will be in compliance with applicable federal, state, and local regulations.

Offsite Vehicle Tracking

A stabilized construction entrance will be provided at necessary locations to help reduce vehicle tracking of sediments. The paved public roadways affected by work operations will be cleaned as necessary to remove any excess mud, dirt or other matter tracked from the site.

Dewatering

Should site dewatering be required, all storm water runoff that requires dewatering shall be filtered to reduce sediment transport.

When pumping (dewatering) standing storm water from the site, the operator shall use appropriate Best Management Practices (BMPs). Untreated/Direct discharge into a storm sewer will not be allowed.

Dust Control

The transport of air-borne dust and sediment from this site will be controlled as needed by appropriate methods which may include periodic watering or use of approved chemical stabilizers.

Pollutant Sources from Support Activities and Controls

All work will be conducted at the project site. If any support activities occur off site, this SWPPP will be amended to describe them and any additional control measures that may be needed beyond those described herein. The control measures described in Section 7, Non-Storm Water Discharges, will apply to all support activities, as applicable. Should any support activity involve earth disturbance or movement of soils, filter fabric fencing or other perimeter controls will be utilized as necessary to contain silt, sediment and other pollutants.

Measures to Protect Certain Species, or Critical Habitat

There are no special measures required to protect threatened or endangered species/critical habitat on this site.

Measures to Protect Historical Sites

There are no historical sites known to exist at this site. However, if any historical sites are discovered, this information will be revised to reflect appropriate coordination.

APPROVED STATE, TRIBAL OR LOCAL PLANS

There are currently no approved state or local site plan requirements for storm water management or erosion and sediment control on this site, beyond the TPDES General Permit TXR150000, under which it was developed.

This plan meets the storm water management and erosion and sediment control measures as required by Comal County and the TPDES General Permit TXR150000.

No tribal land is known to occur at the site. However, if tribal land is found to occur at the site, then the information will be revised to reflect appropriate coordination.

All erosion and sedimentation control measures and practices identified in this SWPPP are to be maintained in effective operating condition as follows:

- Maintenance and repairs identified as necessary in an inspection (see Section 5 below) will be conducted before the next anticipated storm event or as necessary to maintain the effectiveness of the Best Management Practices.
- If maintenance before the next anticipated storm event is impracticable, maintenance will be scheduled and accomplished as soon as practicable.
- Sediment will be removed from the sediment fences and inlet protection barriers before it reaches 1/3 the height of the barrier.

SCOPE OF INSPECTIONS

- Disturbed areas of the construction site which have not been finally stabilized;
- Areas used for storage of materials that are exposed to precipitation will be inspected for evidence of, or the potential for, pollutants entering the drainage system;
- Erosion and sediment control measures identified in the plan will be observed to ensure that they are operating correctly;
- Locations where vehicles enter or exit the site will be inspected for evidence of offsite sediment tracking; and,
- Where discharge locations or points are accessible, they will be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

SCHEDULE OF INSPECTIONS

- Inspections will be conducted by the responsible person at least once every 7 calendar days.
- Inspection of offsite discharge locations or points if accessible will be conducted at least once during the construction activity.

SWPPP MODIFICATIONS AS A RESULT OF INSPECTIONS

Based on the results of each inspection, the Site Description [Section 2] and Control Measures [Section 4] of this SWPPP will be revised as appropriate, but in no case later than 7 calendar days following the inspection. If modifications to BMPs are necessary, they will be implemented whenever possible before the next storm event, or if that is impracticable, the changes will be implemented as soon as practicable. Major modifications to this SWPPP will be logged [Section 11] as they are made.

INSPECTION REPORT FORMAT

A report summarizing the scope of the inspection, name of personnel making the inspection, the date of the inspection, major observations relating to the implementation of the SWPPP, and actions taken in accordance the schedule noted above will be made and retained as part of this SWPPP for at least three years from the date that the site is finally stabilized. The reports will be signed in accordance with the TPDES General Permit. The completed Inspection Reports related to this SWPPP are found in Section 12.

A sample of the Inspection Report Form to be used in conjunction with this SWPPP is included immediately behind this page.

Qualifications of the site inspector(s) may be found in the Certifications Section of this SWPPP, as well as the formal delegation of inspection responsibility by the Operator, to this individual/entity.

SWPPP INSPECTION REPORT

7 DAY CYCLE

PROJECT NAME:		DATE OF INSPECTION:		INSPECTOR NAME:	
PERMIT NUMBER [IF ASSIGNED]	PHASE I <input type="radio"/> PHASE II <input type="radio"/>	ARE SWPPP SIGNAGE AND POSTINGS PROPERLY LOCATED & LEGIBLE? YES <input type="radio"/> NO <input type="radio"/>	IS INSPECTOR QUALIFIED, AND ARE QUALIFICATIONS DOCUMENTED IN THE SWPPP? YES <input type="radio"/> NO <input type="radio"/>		

NARRATIVE FINDINGS OF THIS INSPECTION:

BMP OBSERVATIONS AND COMMENTS

FILTER FABRIC FENCE (FF/RFF)	N/A <input type="radio"/>		
HAS SILT REACHED 1/2 OF FENCE HEIGHT IN ANY AREA?	YES <input type="radio"/> NO <input type="radio"/>		
IS THERE ANY EVIDENCE OF OVERTOPPING/WASHOUT?	YES <input type="radio"/> NO <input type="radio"/>		
ROCK BERMS (RFB)	N/A <input type="radio"/>		
HAS SILT REACHED 1/2 OF BERM HEIGHT IN ANY AREA?	YES <input type="radio"/> NO <input type="radio"/>		
IS THERE ANY EVIDENCE OF OVERTOPPING/WASHOUT?	YES <input type="radio"/> NO <input type="radio"/>		
INLET PROTECTION BARRIERS (IPB)	N/A <input type="radio"/>		
ARE IPBs IN PLACE AND FUNCTIONING PROPERLY?	YES <input type="radio"/> NO <input type="radio"/>		
HAS SEDIMENT REACHED 1/2 OF ANY IPB HEIGHT?	YES <input type="radio"/> NO <input type="radio"/>		
IS THERE ANY EVIDENCE OF OVERTOPPING?	YES <input type="radio"/> NO <input type="radio"/>		
STABILIZED CONSTRUCTION EXIT (SC)	N/A <input type="radio"/>		
IS SEDIMENT BEING TRACKED INTO STREET?	YES <input type="radio"/> NO <input type="radio"/>		
DOES ALL TRAFFIC USE THE STABILIZED EXIT?	YES <input type="radio"/> NO <input type="radio"/>		
CONCRETE WASHOUT (CW)	N/A <input type="radio"/>		
IS WASHOUT IN PLACE AND FUNCTIONING PROPERLY?	YES <input type="radio"/> NO <input type="radio"/>		
DO THE SOLIDS/LIQUIDS NEED TO BE REMOVED?	YES <input type="radio"/> NO <input type="radio"/>		
ARE OTHER BMPs UTILIZED?	YES <input type="radio"/> NO <input type="radio"/>		
ARE THEY IN PLACE AND FUNCTIONING PROPERLY?	YES <input type="radio"/> NO <input type="radio"/>		
POTENTIALLY HAZARDOUS MATERIALS	N/A <input type="radio"/>		
ARE HAZARDOUS MATERIALS STORED PROPERLY?	YES <input type="radio"/> NO <input type="radio"/> N/A <input type="radio"/>		
ARE FUEL TANKS PROPERLY PLACED AND PROTECTED?	YES <input type="radio"/> NO <input type="radio"/> N/A <input type="radio"/>		
ARE CHEMICAL TOILETS PROPERLY LOCATED?	YES <input type="radio"/> NO <input type="radio"/> N/A <input type="radio"/>		
IS DUMPSTER LOCATED AND USED APPROPRIATELY?	YES <input type="radio"/> NO <input type="radio"/> N/A <input type="radio"/>		
IS TRASH COLLECTED AND STORED APPROPRIATELY?	YES <input type="radio"/> NO <input type="radio"/> N/A <input type="radio"/>		
EVIDENCE OF IMPROPER WASHDOWN ACTIVITIES?	YES <input type="radio"/> NO <input type="radio"/> N/A <input type="radio"/>		
EVIDENCE OF IMPROPER EQUIPMENT MAINTENANCE?	YES <input type="radio"/> NO <input type="radio"/> N/A <input type="radio"/>		
EVIDENCE OF IMPROPER DEWATERING PRACTICES?	YES <input type="radio"/> NO <input type="radio"/> N/A <input type="radio"/>		
ARE ADDITIONAL BMPs NEEDED?	YES <input type="radio"/> NO <input type="radio"/> N/A <input type="radio"/>		
STABILIZATION MEASURES REQUIRED AT THIS TIME?	YES <input type="radio"/> NO <input type="radio"/> N/A <input type="radio"/>		

CONSTRUCTION PHASE? INDICATE MAJOR GRADING AND/OR STABILIZATION ACTIVITIES CURRENTLY UNDERWAY.

CLEARING ☐ ROUGH GRADE ☐ UTILITY INSTALLATION ☐ PAD PREP ☐ SLAB/PAVING PREP ☐ CONCRETE PLACEMENT ☐ FINAL GRADING ☐ LANDSCAPE ☐

I CERTIFY THAT ALL CONTROLS ARE ACCEPTABLE AND THIS PROJECT IS IN COMPLIANCE WITH THE SWPPP AND CONSTRUCTION GENERAL PERMIT. YES ☐ NO ☐

CERTIFICATION

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE

DATE

NON-STORM WATER DISCHARGES

No discharges of storm water from associated construction activities, including concrete batch plants, asphalt batch plants, equipment staging areas, material storage yards, material borrow areas and excavated material disposal areas will take place under this SWPPP.

The following eligible non-storm water discharges at the site will be allowed only when such flows are diverted to site erosion and sediment control measures as detailed in Section 4, CONTROLS:

- from fire fighting activities
- fire hydrant flushing
- vehicle, external building and pavement wash water where detergents and soaps are not used and where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled materials have been removed and if local state or federal regulations are applicable, the materials are removed according to those regulations), and where the purpose is to remove mud, dirt, and dust
- waters used to control dust
- potable water sources including waterline flushing
- air conditioning condensate
- uncontaminated ground water or spring water, including foundation or footing drains where flows are not contaminated with industrial materials such as solvents.

SPILL PREVENTION

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.

Good Housekeeping Practices

The following good housekeeping practices will be followed onsite during the construction project.

- An effort will be made to store only enough products required to construct the project.
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Products will be kept in their original containers with the original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the manufacturer, and only when ready to be used.
- Whenever possible, all of a product will be used up before disposing of the container.
- Manufacturers' recommendations for proper use and disposal will be followed.
- The Project Superintendent will inspect daily to ensure proper use and disposal of materials onsite.

Hazardous Product Practices

These practices will be used to reduce the risks associated with hazardous materials, if hazardous materials are used.

- Products will be kept in original containers unless they are not re-sealable.
- Original labels and material safety data will be retained.
- If surplus product must be disposed of, manufacturers' or local and state recommended methods for proper disposal will be followed.

Product Specific Practices

The following product specific practices will be followed onsite:

- **Petroleum Products**
All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers, which are clearly labeled.

Any asphalt substances used onsite will be applied according to manufacturer's recommendations.

- **Paints**

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm water sewer system but will be properly disposed of according to manufacturer's instructions or State and local regulations.

- **Fertilizers**

Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked in the soil to limit exposure to storm water. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills or suitably covered storage area.

- **Concrete Trucks**

Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash on this site, except into a specified and properly designated area designed for this purpose.

Spill Prevention Practices

In addition to the good housekeeping and material management practices discussed above, the following practices will be followed for spill prevention and cleanup:

- Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate state or local government agency regardless of size.
- The spill prevention plan will be adjusted to include measures to prevent this type of spill from recurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
- The Project Superintendent responsible for day-to-day site operations will be the spill prevention and cleanup coordinator. He will designate other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup.

RELEASES IN EXCESS OF REPORTABLE QUANTITIES

The discharge of hazardous substances or oil in the storm water discharges will be prevented or minimized as provided below. The General Contractor will comply with the reporting requirements under the Construction General Permit. Spills or releases will be reported immediately to the Texas Commission on Environmental Quality 800. 832.8224. The SWPPP will be modified within 14 days to provide description of release, circumstances leading to release and the date of the release.

Potential Pollutants

The following potential pollutants listed below are expected to be stored onsite during construction. As utilized, they may also be stored as waste material prior to being properly disposed of:

MATERIAL	PHYSICAL DESCRIPTION	POTENTIAL POLLUTANTS
Erosion	Solid particles	Soil, sediment
Asphalt	Black solid	Oil, petroleum distillates
Concrete	Gray solid	Lime, sand
Glue, adhesives	White or yellow liquid	Polymers, epoxies
Paints	Various color liquids	Metal oxides, stoddard solvent, talc, calcium carbonate, arsenic
Curing compounds	White, cream or red liquids	Naphtha

Wood preservatives	Clear, amber or dark brown liquids	Stoddard solvent, petroleum distillates, Arsenic, copper, chromium
Hydraulic oil/fluids	Brown, red liquids	Hydrocarbons, mineral oil
Gasoline	Colorless, pale brown or pink	Benzene, ethyl benzene, toluene, xylene, MTBE
Diesel fuel	Clear, blue-green to yellow liquid	Petroleum distillates, oil & grease, naphthalene, xylenes
Antifreeze/coolant	Clear Green/yellow liquids	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)
Fertilizers	Liquid or solid granules	Nitrogen, phosphorous

SPILL RESPONSE PLAN

Leak or Spill

- Employees will not be punished for reporting spills.
- Contain spill and start cleanup
- Report if over reportable quantity.

Point of Contact in Case of Reportable Quantity Release

EPA National Response Center	800.424.8802
Texas Commission on Environmental Quality	800.832.8224
Construction EcoServices of Central Texas	512.339.3293

Reportable Quantities

Material	Material Released To	Reportable Quantity
Engine oil, fuel, hydraulic & brake fluid	Land	~25 gallons
Engine oil, fuel, hydraulic & brake fluid	Water	Visible Sheen
Anti-freeze	Land	100 lbs (~13 Gallons)
Battery Acid	Land, Water	100 lbs (~6 Gallons)
Freon	Air	1 lb
Gasoline	Air, Land, Water	100 lbs (~15 Gallons)
Engine Degreasers	Air, Land, Water	100 lbs (~14 Gallons)

Information To Report

When making a telephone report of a spill or pollution complaint, it will be helpful if the following information is available:

- The date and time of the spill or release;
- The identity or chemical name of material released or spill as well as whether the substance is an extremely hazardous material;
- An estimate of the quantity of material released or spilled and the time or duration of the event;
- The exact location of the spill, including the name of the waters involved or threatened, and/or other medium or media affected by the release or spill;
- The source of the release or spill;
- The name, address, and telephone number of the party in charge of, or responsible for the facility, vessel, or activity associated with the release or spill;

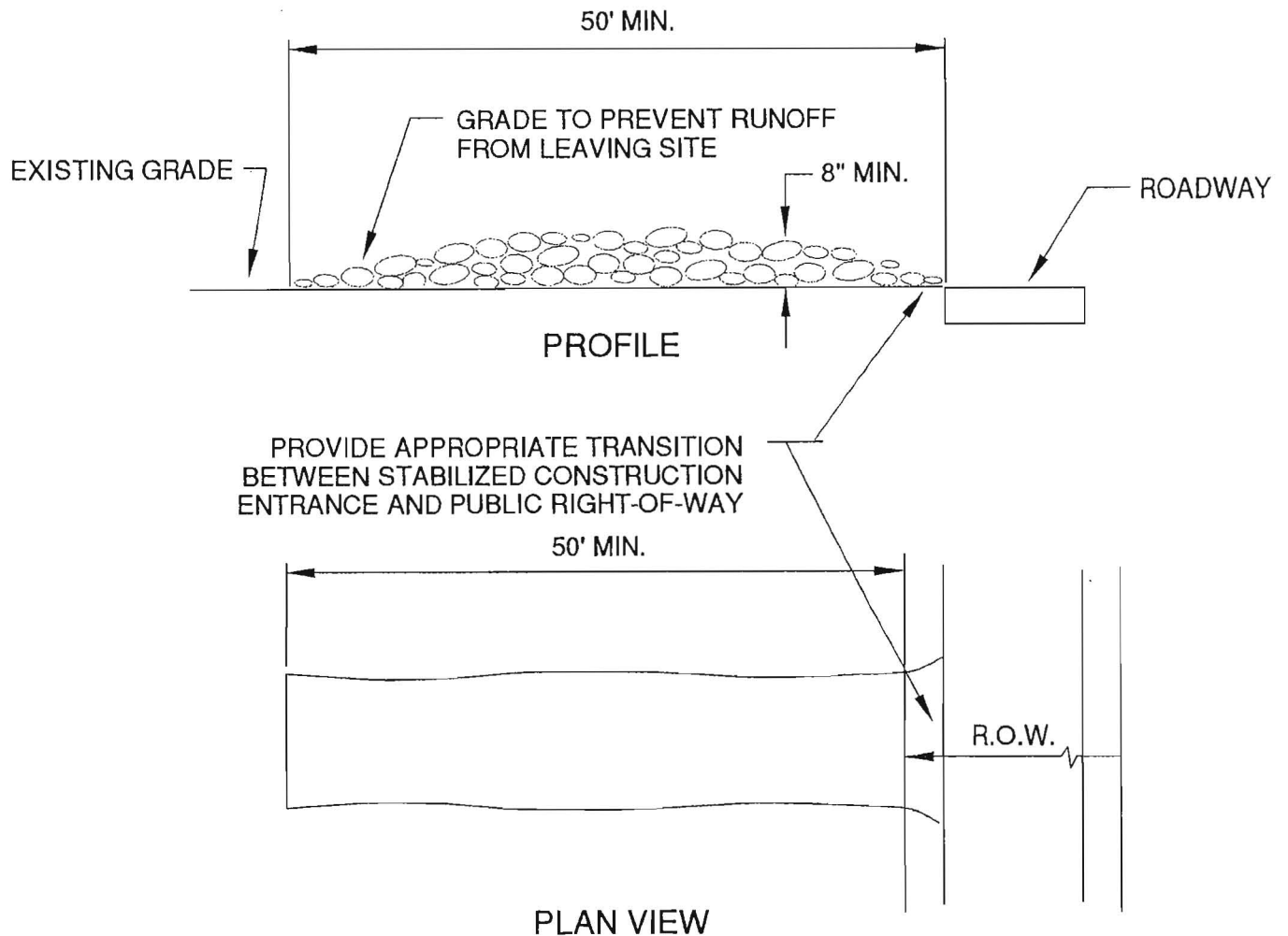
- The extent of actual and potential water pollution;
- The party at the release or spill site, who is in charge of operations at the site and the telephone number of this party;
- The steps being taken or proposed to contain and clean up the released or spilled material and any precautions taken to minimize impacts including evacuation;
- The extent of injuries, if any;
- Any known or anticipated health risks associated with the incident and, where appropriate, advice regarding medical attention necessary for exposed individuals;
- Possible hazards to the environment (air, soil, water, wildlife, etc.). This assessment may include references to accepted chemical databases, material safety data sheets, and health advisories. Estimated or measured concentrations of a contaminant may be requested by the TCEQ for the state's hazard assessment; and,
- Identity of governmental and/or private sector representatives responding on-scene.

BEST MANAGEMENT PRACTICE SPECIFICATIONS

Although not required under the General Permit, details for suggested Best Management Practices are found in this section. They may differ from those found in the construction drawings, and in that case these should be considered recommended alternatives. It is the Operator's responsibility to select the most effective control for specific site requirements.

Items Specified:

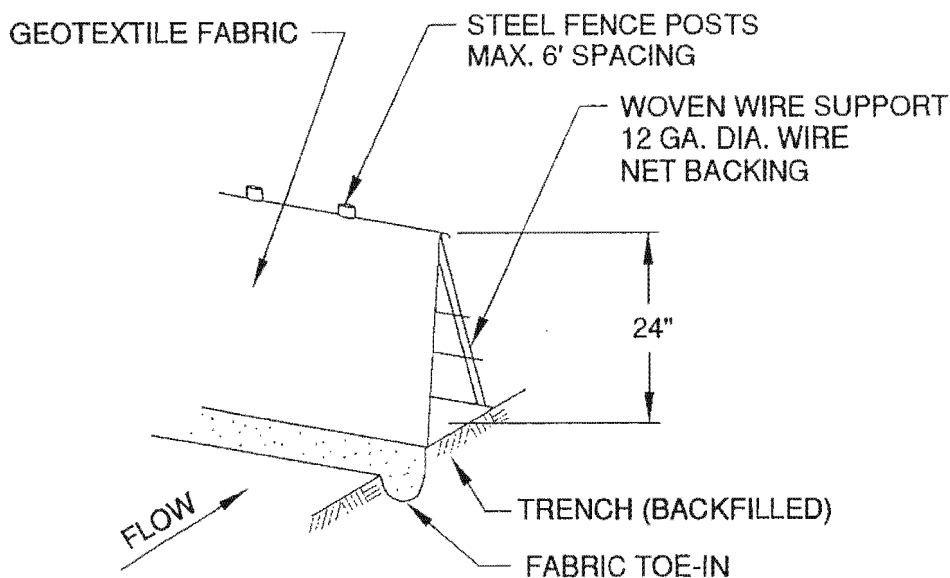
- Filter Fabric Fence
- Inlet Protection Barrier
- Stabilized Construction Exit



NOTES:

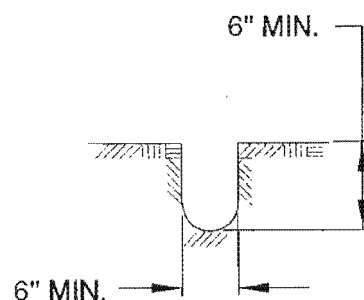
1. STONE SIZE: 3"-5" OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50'.
3. THICKNESS: NOT LESS THAN 8".
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

STABILIZED CONSTRUCTION ENTRANCE



STANDARD SYMBOL
FOR SILT FENCE (SF)

SF
L=



TRENCH CROSS SECTION

NOTES:

STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1".

THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CAN NOT BE TRENCHED INTO THE SURFACE (E.G. PAVEMENT), THE FABRIC FLAP SHALL BE WEIGHTED DOWN WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.

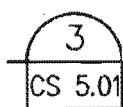
THE TRENCH MUST BE A MINIMUM OF 6 inches DEEP AND 6 inches WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST.

INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

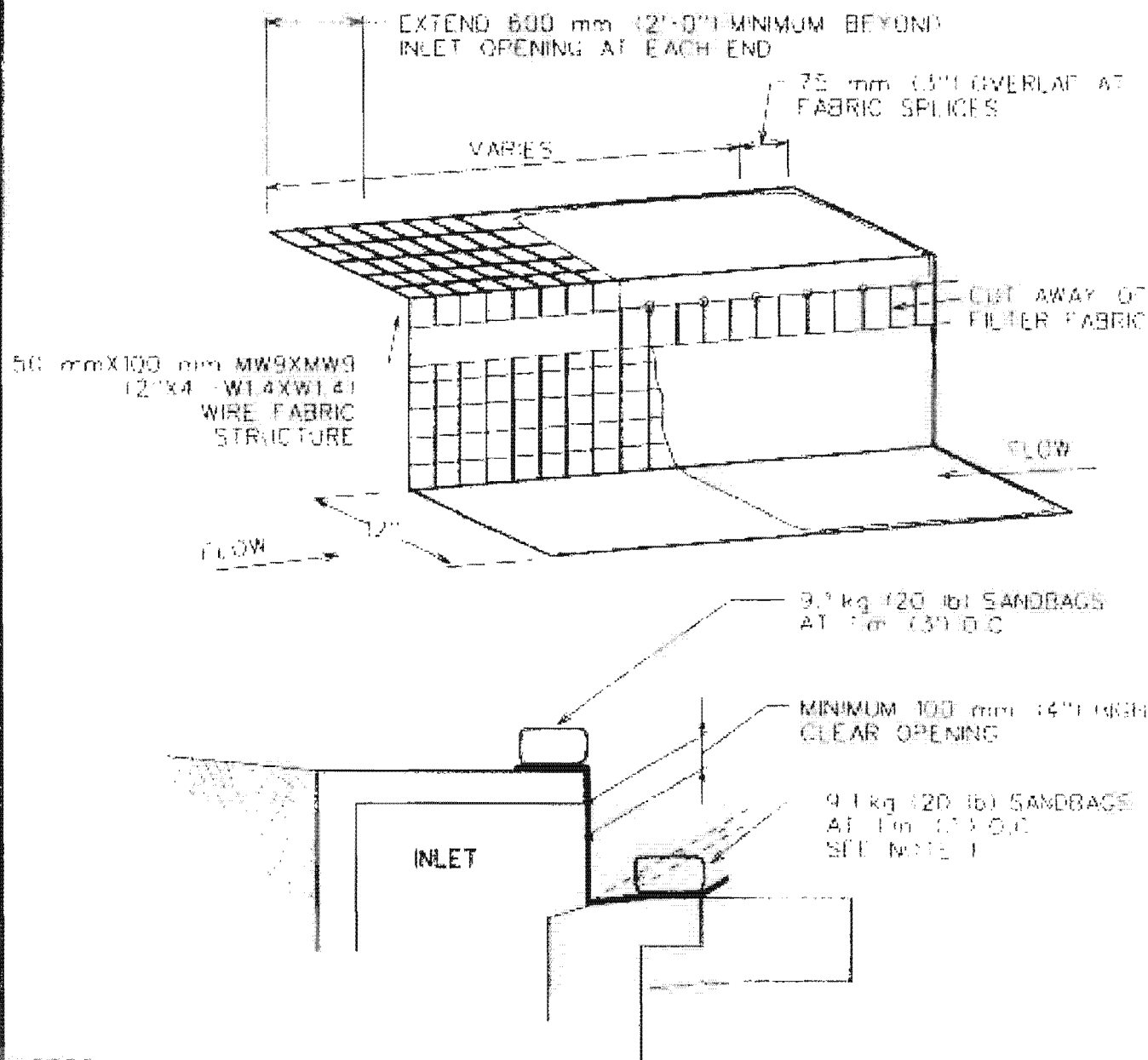
SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 inches. THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.



SILT FENCE

CS 5.01 NOT TO SCALE



NOTES:

- 1 WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 25 mm X 100 mm (1" X 4") BOARD SECURED WITH CONCRETE NAILS 1m (3'-0") O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.
- 2 A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
- 3 DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 50 mm (2").
- 4 CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM WATER BEGINS TO OVERTOP THE CURB.
- 5 INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

<p>CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT</p>	<p>FILTER DIKE CURB INLET PROTECTION</p>		
<p>RECORD COPY SIGNED BY J. PATRICK MURPHY</p>	<p>2/21/01</p>	<p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE</p>	
		<p>STANDARD NO. 628S-2</p>	

**A COPY OF THE TPDES CONSTRUCTION GENERAL PERMIT
CAN BE FOUND IMMEDIATELY BEHIND THIS PAGE.**



TPDES General Permit
NO. TXR150000

This is a new general permit
issued pursuant to Section
26.040 of the Texas Water Code
and Section 402 of the Clean
Water Act.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. BOX 13087
Austin, TX 78711-3087

GENERAL PERMIT TO DISCHARGE WASTE

under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

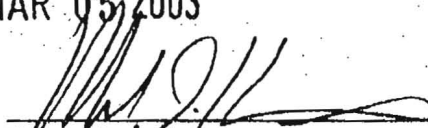
Construction sites located in the state of Texas

may discharge to surface water in the state

only according to effluent limitations, monitoring requirements and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this general permit does not grant to the permittee the right to use private or public property for conveyance of storm water and certain non-storm water discharges along the discharge route. This includes property belonging to but not limited to any individual, partnership, corporation or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit and the authorization contained herein shall expire at midnight five years after the date of issuance.

ISSUED AND EFFECTIVE DATE: MAR 05 2003


For the Commission

**TCEQ General Permit Number TXR150000 Relating To Discharges
From Construction Activities**

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Part I. Definitions

Best Management Practices - (BMPs) Schedules of activities, prohibitions of practices, maintenance procedures, structural controls, local ordinances, and other management practices to prevent or reduce the discharge of pollutants. BMPs also include treatment requirements, operating procedures, and practices to control construction site runoff, spills or leaks, waste disposal, or drainage from raw material storage areas.

Commencement of Construction - The exposure of soils resulting from activities such as clearing, grading, and excavating.

Common Plan of Development - A construction activity that is completed in separate stages, separate phases, or in combination with other construction activities. A common plan of development is identified by the documentation for the construction project that identifies the scope of the project, and may include plats, blueprints, marketing plans, contracts, building permits, a public notice or hearing, zoning requests, or other similar documentation and activities.

Facility or Activity - Any TPDES "point source" or any other facility or activity (including land or appurtenances thereto) that is subject to regulation under the TPDES program.

Final Stabilization - A construction site status where either of the following conditions are met:

- (a) All soil disturbing activities at the site have been completed and a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.
- (b) For individual lots in a residential construction site by either:
 - (1) the homebuilder completing final stabilization as specified in condition (a) above; or
 - (2) the homebuilder establishing temporary stabilization for an individual lot prior to the time of transfer of the ownership of the home to the buyer and after informing the homeowner of the need for, and benefits of, final stabilization.
- (c) For construction activities on land used for agricultural purposes (e.g. pipelines across crop or range land), final stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural use. Areas disturbed that were not previously used for agricultural activities, such as buffer strips immediately adjacent to a surface water and areas which are not being returned to their preconstruction agricultural use must meet the final stabilization conditions of condition (a) above.

Large Construction Activity - Construction activities including clearing, grading, and excavating that result in land disturbance of equal to or greater than five (5) acres of land. Large construction activity also includes the disturbance of less than five (5) acres of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than five (5) acres of land. Large construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, and original purpose of a ditch, channel, or other similar storm water conveyance. Large construction activity does not include the routine grading of existing dirt roads, asphalt overlays of existing roads, the routine clearing of existing right-of-ways, and similar maintenance activities.

Municipal Separate Storm Sewer System (MS4) - A separate storm sewer system owned or operated by a state, city, town, county, district, association, or other public body (created by or pursuant to state law) having jurisdiction over the disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under state law such as a sewer district, flood control or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization.

Notice of Intent (NOI) - A written submission to the executive director from an applicant requesting coverage under a general permit.

Notice of Termination (NOT) - A written submission to the executive director from a permittee authorized under a general permit requesting termination of coverage.

Operator - The person or persons associated with a large or small construction activity that meets either of the following two criteria:

- (a) the person or persons have operational control over construction plans and specifications to the extent necessary to meet the requirements and conditions of this general permit; or
- (b) the person or persons have day-to-day operational control of those activities at a construction site which are necessary to ensure compliance with a storm water pollution prevention plan for the site or other permit conditions (e.g. they are authorized to direct workers at a site to carry out activities required by the Storm Water Pollution Prevention Plan or comply with other permit conditions).

Permittee - An operator authorized under this general permit. The authorization may be gained through submission of a notice of intent, by waiver, or by meeting the requirements for automatic coverage to discharge storm water runoff and certain non-storm water discharges.

Point Source - Any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are, or may be, discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

Pollutant - (from the Texas Water Code, Chapter 26) *Dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, filter backwash, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, and agricultural waste discharged into any surface water in the state. The term "pollutant" does not include tail water or runoff water from irrigation or rainwater runoff from cultivated or uncultivated rangeland, pastureland, and farmland.*

Pollution - (from the Texas Water Code, Chapter 26) *The alteration of the physical, thermal, chemical, or biological quality of, or the contamination of, any surface water in the state that renders the water harmful, detrimental, or injurious to humans, animal life, vegetation, or property or to public health, safety, or welfare, or impairs the usefulness or the public enjoyment of the water for any lawful or reasonable purpose.*

Runoff Coefficient - *The fraction of total rainfall that will appear at the conveyance as runoff.*

Separate Storm Sewer System - *A conveyance or system of conveyances (including roads with drainage systems, streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains), designed or used for collecting or conveying storm water; that is not a combined sewer, and that is not part of a publicly owned treatment works (POTW).*

Small Construction Activity - *Construction activities including clearing, grading, and excavating that result in land disturbance of equal to or greater than one (1) acre and less than five (5) acres of land. Small construction activity also includes the disturbance of less than one (1) acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one (1) and less than five (5) acres of land. Small construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, and original purpose of a ditch, channel, or other similar storm water conveyance. Small construction activity does not include the routine grading of existing dirt roads, asphalt overlays of existing roads, the routine clearing of existing right-of-ways, and similar maintenance activities.*

Storm Water - *Storm water runoff, snow melt runoff, and surface runoff and drainage.*

Storm Water Associated with Construction Activity - *Storm water runoff from a construction activity where soil disturbing activities (including clearing, grading, excavating) result in the disturbance of one (1) or more acres of total land area, or are part of a larger common plan of development or sale that will result in disturbance of one (1) or more acres of total land area.*

Structural Control (or Practice) - *A pollution prevention practice that requires the construction of a device, or the use of a device, to capture or prevent pollution in storm water runoff. Structural controls and practices may include but are not limited to: silt fences, earthen dikes, drainage swales, sediment traps, check dams, subsurface drains, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins.*

Surface Water in the State - *Lakes, bays, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, wetlands, marshes, inlets, canals, the Gulf of Mexico inside the territorial limits*

of the state (from the mean high water mark (MHW) out 10.36 miles into the Gulf), and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, navigable or nonnavigable, and including the beds and banks of all water-courses and bodies of surface water, that are wholly or partially inside or bordering the state or subject to the jurisdiction of the state; except that waters in treatment systems which are authorized by state or federal law, regulation, or permit, and which are created for the purpose of waste treatment are not considered to be water in the state.

Temporary Stabilization - A condition where exposed soils or disturbed areas are provided a protective cover, which may include temporary seeding, geotextiles, mulches, and other techniques to reduce or eliminate erosion until either final stabilization can be achieved or until further construction activities take place.

Waters of the United States - (from title 40, part 122, section 2 of the Code of Federal Regulations) Waters of the United States or waters of the U.S. means:

- (a) all waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- (b) all interstate waters, including interstate wetlands;
- (c) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds that the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:
 - (1) which are or could be used by interstate or foreign travelers for recreational or other purposes;
 - (2) from which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - (3) which are used or could be used for industrial purposes by industries in interstate commerce;
- (d) all impoundments of waters otherwise defined as waters of the United States under this definition;
- (e) tributaries of waters identified in paragraphs (a) through (d) of this definition;
- (f) the territorial sea; and
- (g) wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a) through (f) of this definition.

Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR § 423.11(m) which also meet the criteria of this definition) are not waters of the United States. This exclusion applies only to manmade bodies of water which neither were originally created in waters of the United States (such as disposal area in wetlands) nor resulted from the impoundment of waters of the United States. Waters of the United States do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA.

Part II. Permit Applicability and Coverage

Section A. Discharges Eligible for Authorization

1. Storm Water Associated with Construction Activity

Discharges of storm water runoff from small and large construction activities may be authorized under this general permit.

2. Discharges of Storm Water Associated with Construction Support Activities

Discharges of storm water runoff from construction support activities, including concrete batch plants, asphalt batch plants, equipment staging areas, material storage yards, material borrow areas, and excavated material disposal areas may be authorized under this general permit provided:

- (a) the activity is located within a 1-mile distance from the boundary of the permitted construction site and directly supports the construction activity;
- (b) the storm water pollution prevention plan is developed according to the provisions of this general permit and includes appropriate controls and measures to reduce erosion and discharge of pollutants in storm water runoff from the supporting industrial activity site; and
- (c) the industrial activity either does not operate beyond the completion date of the construction activity or obtains separate TPDES authorization for discharges.

3. Non-storm Water Discharges

The following non-storm water discharges from sites authorized under this general permit are also eligible for authorization under this general permit:

- (a) discharges from fire fighting activities;

- (b) fire hydrant flushings;
- (c) vehicle, external building, and pavement wash water where detergents and soaps are not used and where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed; and if local state, or federal regulations are applicable, the materials are removed according to those regulations), and where the purpose is to remove mud, dirt, an dust;
- (d) water used to control dust;
- (e) potable water sources including waterline flushings;
- (f) air conditioning condensate;
- (g) uncontaminated ground water or spring water, including foundation or footing drains where flows are not contaminated with industrial materials such as solvents.

4. Other Permitted Discharges

Any discharge authorized under a separate NPDES, TPDES, or TCEQ permit may be combined with discharges authorized by this permit.

Section B. Limitations on Permit Coverage

1. Post Construction Discharges.

Discharges that occur after construction activities have been completed, and after the construction site and any supporting activity site have undergone final stabilization, are not eligible for coverage under this general permit. Discharges originating from the sites are not authorized under this general permit following the submission of the notice of termination (NOT) for the construction activity.

2. Prohibition of Non-Storm Water Discharges

Except as provided in Part II. A.2., A3., and A4., all discharges authorized by this general permit must be composed entirely of storm water associated with construction activity.

3. Compliance With Water Quality Standards

Discharges to surface water in the state that would cause or contribute to a violation of water quality standards or that would fail to protect and maintain existing designated uses are not eligible for coverage under this general permit. The executive director may require an application for an individual permit or alternative

general permit (see Part II.G.3) to authorize discharges to surface water in the state from any activity that is determined to cause a violation of water quality standards or is found to cause, or contribute to, the loss of a designated use. The executive director may also require an application for an individual permit considering factors described in Part II. G.2.

4. Discharges to Water Quality-Impaired Receiving Waters.

New sources or new discharges of the constituents of concern to impaired waters are not authorized by this permit unless otherwise allowable under 30 TAC Chapter 305 and applicable state law. Impaired waters are those that do not meet applicable water quality standards and are listed on the EPA approved Clean Water Act Section 303(d) list. Constituents of concern are those for which the water body is listed as impaired.

Discharges of the constituents of concern to impaired water bodies for which there is a total maximum daily load (TMDL) implementation plan are not eligible for this permit unless they are consistent with the approved TMDL and the implementation plan. Permittees must incorporate the limitations, conditions, and requirements applicable to their discharges, including monitoring frequency and reporting required by TCEQ rules, into their storm water pollution prevention plan in order to be eligible for coverage under this general permit.

5. Discharges to the Edwards Aquifer Recharge Zone

Discharges cannot be authorized by this general permit where prohibited by 30 Texas Administrative Code (TAC) Chapter 213 (relating to Edwards Aquifer).

- (a) For new discharges located within the Edwards Aquifer Recharge Zone, or within that area upstream from the recharge zone and defined as the Contributing Zone, operators must meet all applicable requirements of, and operate according to, 30 TAC Chapter 213 (Edwards Aquifer Rule) in addition to the provisions and requirements of this general permit.
- (b) For existing discharges, the requirements of the agency-approved Water Pollution Abatement Plan under the Edwards Aquifer Rules are in addition to the requirements of this general permit. BMPs and maintenance schedules for structural storm water controls, for example, may be required as a provision of the rule. All applicable requirements of the Edwards Aquifer Rule for reductions of suspended solids in storm water runoff are in addition to the requirements in this general permit for this pollutant. For discharges from large construction activities located on the Edwards Aquifer contributing zone, applicants must also submit a copy of the NOI to the appropriate TCEQ regional office."

Counties:

Contact:

Comal, Bexar, Medina, Uvalde,
and Kinney

TCEQ
Water Program Manager
San Antonio Regional Office
14250 Judson Rd.
San Antonio, Texas
(210) 490-3096

Williamson, Travis, and Hays

TCEQ
Water Program Manager
Austin Regional Office
1921 Cedar Bend Dr., Ste. 150
Austin, Texas
(512) 339-2929.

6. Discharges to Specific Watersheds and Water Quality Areas

Discharges otherwise eligible for coverage cannot be authorized by this general permit where prohibited by 30 TAC Chapter 311 (relating to Watershed Protection) for water quality areas and watersheds.

7. Protection of Streams and Watersheds by Other Governmental Entities

This general permit does not limit the authority or ability of federal, other state, or local governmental entities from placing additional or more stringent requirements on construction activities or discharges from construction activities. For example, this permit does not limit the authority of a home-rule municipality provided by Section 401.002 of the Texas Local Government Code.

8. Indian Country Lands

Storm water runoff from construction activities occurring on Indian Country lands are not under the authority of the TCEQ and are not eligible for coverage under this general permit. If discharges of storm water require authorization under federal National Pollutant Discharge Elimination System (NPDES) regulations, authority for these discharges must be obtained from the U.S. Environmental Protection Agency (EPA).

9. Oil and Gas Production

Storm water runoff from construction activities associated with the exploration, development, or production of oil or gas or geothermal resources, including transportation of crude oil or natural gas by pipeline, are not under the authority of the TCEQ and are not eligible for coverage under this general permit. If discharges

of storm water require authorization under federal NPDES regulations, authority for these discharges must be obtained from the EPA.

10. Storm Water Discharges from Agricultural Activities

Storm water discharges from agricultural activities that are not point source discharges of storm water are not subject to TPDES permit requirements. These activities may include clearing and cultivating ground for crops, construction of fences to contain livestock, construction of stock ponds, and other similar agricultural activities.

Section C. Deadlines for Obtaining Authorization to Discharge

1. Large Construction Activities

- (a) New Construction - Discharges from sites where the commencement of construction occurs on or after the issuance date of this general permit must be authorized, either under this general permit or a separate TPDES permit, prior to the commencement of those construction activities.
- (b) Ongoing Construction - Operators of large construction activities continuing to operate after the issuance date of this permit, and authorized under NPDES general permit TXR100000 (issued July 6, 1998, FR 36490), must submit an NOI to obtain authorization under this general permit within 90 days of the issuance date of this general permit. During this interim period, as a requirement of this TPDES permit, the operator must continue to meet the conditions and requirements of the federal NPDES permit. If the construction activity is completed prior to this 90-day deadline, and the site would otherwise qualify for termination of coverage under that federal NPDES permit, the operator must notify the executive director of the TCEQ in writing within 30 days of that condition.

2. Small Construction Activities

- (a) New Construction - Discharges from sites where the commencement of construction occurs on or after the issuance date of this general permit must be authorized, either under this general permit or a separate TPDES permit, prior to the commencement of those construction activities.
- (b) Ongoing Construction - Discharges from ongoing small construction activities that commenced prior to March 10, 2003, and that would not meet the conditions to qualify for termination of this permit as described in Part II.E. of this general permit, must be authorized, either under this general permit or a separate TPDES permit, prior to March 10, 2003.

Section D. Obtaining Authorization to Discharge

1. Small construction activities are determined to occur during periods of low potential for erosion, and operators of these sites may be automatically authorized under this general permit and not required to develop a storm water pollution prevention plan or submit a notice of intent (NOI), provided:
 - (a) the construction activity occurs in a county listed in Appendix A;
 - (b) the construction activity is initiated and completed, including either final or temporary stabilization of all disturbed areas, within the time frame identified in Appendix A for the location of the construction site;
 - (c) all temporary stabilization is adequately maintained to effectively reduce or prohibit erosion, final stabilization activities have been initiated and a condition, of final stabilization is completed no later than 30 days following the end date of the time frame identified in Appendix A for the location of the construction site;
 - (d) the permittee signs a completed construction site notice (Attachment 1 of this general permit), including the certification statement;
 - (e) a signed copy of the construction site notice is posted at the construction site in a location where it is readily available for viewing by the general public, local, state, and federal authorities prior to commencing construction activities, and maintained in that location until completion of the construction activity;
 - (f) a copy of the signed and certified construction site notice is provided to the operator of any municipal separate storm sewer system receiving the discharge at least two days prior to commencement of construction activities; and
 - (g) any supporting concrete batch plant or asphalt batch plant is separately authorized for discharges of storm water runoff or other non-storm water discharges under an individual TPDES permit, another TPDES general permit or under an individual TCEQ permit where storm water and non-storm water is disposed of by evaporation or irrigation (discharges are adjacent to water in the state).
2. Operators of small construction activities not described in Part II.D.1. above may be automatically authorized under this general permit, and operators of these sites are not required to submit an NOI provided they:
 - (a) develop a SWP3 according to the provisions of this general permit, that covers either the entire site or all portions of the site for which the applicant

is the operator, and implement that plan prior to commencing construction activities;

- (b) sign a completed construction site notice (Attachment 2 of this general permit);
 - (c) post a signed copy of the construction site notice at the construction site in a location where it is readily available for viewing by the general public, local, state, and federal authorities, prior to commencing construction activities, and maintain the notice in that location until completion of the construction activity; and
 - (d) provide a copy of the signed and certified construction site notice to the operator of any municipal separate storm sewer system receiving the discharge at least two days prior to commencement of construction activities.
3. Operators of all other construction activities that qualify for coverage under this general permit must:
- (a) develop a SWP3 according to the provisions of this general permit, that covers either the entire site or all portions of the site for which the applicant is the operator, and implement that plan prior to commencing construction activities;
 - (b) submit a Notice of Intent (NOI), using a form provided by the executive director, at least 2 days prior to commencing construction activities; or
 - (c) if the operator changes, or an additional operator is added after the initial NOI is submitted, the new operator must submit an NOI at least two (2) days before assuming operational control;
 - (d) post a copy of the NOI at the construction site in a location where it is readily available for viewing prior to commencing construction activities, and maintain the notice in that location until completion of the construction activity;
 - (e) provide a copy of the signed NOI to the operator of any municipal separate storm sewer system receiving the discharge, at least two (2) days prior to commencing construction activities; and
 - (f) implement the SWP3 prior to beginning construction activities.

4. Effective Date of Coverage

- (a) Operators of construction activities described in either Part II. D.1. or D.2. are authorized immediately following compliance with the conditions of Part II. D.1. or D.2. that are applicable to the construction activity.
- (b) Operators of all other construction activities eligible for coverage under this general permit, unless otherwise notified by the executive director, are provisionally authorized two (2) days from the date that a completed NOI is postmarked for delivery to the TCEQ. If electronic submission of the NOI is provided, and unless otherwise notified by the executive director, operators are provisionally authorized 24 hours following confirmation of receipt of the NOI by the TCEQ. Authorization is non-provisional when the executive director finds the NOI is administratively complete and an authorization number is issued for the activity.
- (c) Operators are not prohibited from submitting late NOIs or posting late notices to obtain authorization under this general permit. The TCEQ reserves the right to take appropriate enforcement actions for any unpermitted activities that may have occurred between the time construction commenced and authorization is obtained.

5. Notice of Change (NOC) Letter

If the operator becomes aware that it failed to submit any relevant facts, or submitted incorrect information in an NOI, the correct information must be provided to the executive director in a NOC letter within 14 days after discovery. If relevant information provided in the NOI changes, a NOC letter must be submitted within 14 days of the change. A copy of the NOC must be provided to the operator of any MS4 receiving the discharge.

6. Signatory Requirement for NOI Forms, Notice of Termination (NOT) Forms, NOC Letters, and Construction Site Notices

NOI forms, NOT forms, NOC letters, and Construction Site Notices must be signed according to 30 TAC § 305.44 (relating to Application for Permit).

7. Contents of the NOI

The NOI form shall require, at a minimum, the following information:

- (a) the name, address, and telephone number of the operator filing the NOI for permit coverage;
- (b) the name (or other identifier), address, county, and latitude/longitude of the construction project or site;

- (c) number of acres that will be disturbed (estimated to the largest whole number);
- (d) whether the project or site is located on Indian Country lands;
- (e) confirmation that a SWP3 has been developed and that the SWP3 will be compliant with any applicable local sediment and erosion control plans; and
- (f) name of the receiving water(s).

Section E. Application to Terminate Coverage

Each operator that has submitted an NOI for authorization under this general permit must apply to terminate that authorization following the conditions described in this section of the general permit. Authorization must be terminated by submitting a Notice of Termination (NOT) on a form supplied by the executive director. Authorization to discharge under this permit terminates at midnight on the day the NOT is postmarked for delivery to the TCEQ. If electronic submission of the NOT is provided, authorization to discharge under this permit terminates immediately following confirmation of receipt of the NOT by the TCEQ. Compliance with the conditions and requirements of this permit is required until an NOT is submitted.

1. Notice of Termination Required

The NOT must be submitted to TCEQ, and a copy of the NOT provided to the operator of any MS4 receiving the discharge, within thirty (30) days, after:

- (a) final stabilization has been achieved on all portions of the site that is the responsibility of the permittee; or
- (b) another permitted operator has assumed control over all areas of the site that have not been finally stabilized; and
- (c) all silt fences and other temporary erosion controls have either been removed, scheduled for removal as defined in the SWP3, or transferred to a new operator if the new operator has sought permit coverage. Erosion controls that are designed to remain in place for an indefinite period, such as mulches and fiber mats, are not required to be removed or scheduled for removal.

2. Minimum Contents of the NOT

The NOT form shall require, at a minimum, the following information:

- (a) if authorization was granted following submission of a NOI, the permittees site-specific TPDES general permit number for the construction site;

- (b) an indication of whether the construction activity is completed or if the permittee is simply no longer an operator at the site;
- (c) the name, address and telephone number of the permittee submitting the NOT;
- (d) the name (or other identifier), address, county, and latitude/longitude of the construction project or site; and
- (e) a signed certification that either all storm water discharges requiring authorization under this general permit will no longer occur, or that the applicant to terminate coverage is no longer the operator of the facility or construction site, and that all temporary structural erosion controls have either been removed, will be removed on a schedule defined in the SWP3, or transferred to a new operator if the new operator has applied for permit coverage. Erosion controls that are designed to remain in place for an indefinite period, such as mulches and fiber mats, are not required to be removed or scheduled for removal.

Section F. Waivers from Coverage

The executive director may waive the otherwise applicable requirements of this general permit for storm water discharges from small construction activities under the terms and conditions described in this section.

1. Waiver Applicability and Coverage

Operators of small construction activities may apply for and receive a waiver from the requirements to obtain authorization under this general permit where:

- (a) the calculated rainfall erosivity R factor for the entire period of the construction project is less than five (5);
- (b) the operator submits a signed waiver certification form, supplied by the executive director, certifying that the construction activity will commence and be completed within a period when the value of the calculated rainfall erosivity R factor is less than five (5); and
- (c) the waiver certification form is submitted to the TCEQ at least two (2) days before construction activity begins.

2. Effective Date of Waiver

Operators of small construction activities are provisionally waived from the otherwise applicable requirements of this general permit two (2) days from the date that a completed waiver certification form is postmarked for delivery to TCEQ.

3. *Activities Extending Beyond the Waiver Period*

If a construction activity extends beyond the approved waiver period due to circumstances beyond the control of the operator, the operator must either:

- (a) recalculate the rainfall erosivity factor R factor using the original start date and a new projected ending date, and if the R factor is still under five (5), submit a new waiver certification form at least two (2) days before the end of the original waiver period; or
- (b) obtain authorization under this general permit according to the requirements delineated in either Part II.D.2. or Part II.D.3. at least two (2) days before the end of the approved waiver period.

Section G. Alternative TPDES Permit Coverage

1. Individual Permit Alternative

Any discharge eligible for coverage under this general permit may alternatively be authorized under an individual TPDES permit according to 30 TAC Chapter 305 (relating to Consolidated Permits). Applications for individual permit coverage should be submitted at least three hundred and thirty (330) days prior to commencement of construction activities to ensure timely issuance.

2. Individual Permit Required

The executive director may suspend an authorization or NOI in accordance with the procedures set forth in 30 TAC Chapter 205, including the requirement that the executive director provide written notice to the permittee. The executive director may require an operator of a construction site, otherwise eligible for authorization under this general permit, to apply for an individual TPDES permit because of:

- (a) the conditions of an approved TMDL or TMDL implementation plan;
- (b) the activity is determined to cause a violation of water quality standards or is found to cause, or contribute to, the loss of a designated use of surface water in the state; and
- (c) any other considerations defined in 30 TAC Chapter 205 would include the provision at 30 TAC § 205.4(c)(3)(D), which allows TCEQ to deny authorization under the general permit and require an individual permit if a discharger "has been determined by the executive director to have been out of compliance with any rule, order, or permit of the commission, including non-payment of fees assessed by the executive director."

3. Any discharge eligible for authorization under this general permit may alternatively be authorized under a separate, applicable general permit according to 30 TAC Chapter 205 (relating to General Permits for Waste Discharges).

Section H. Permit Expiration

This general permit shall be issued for a term not to exceed five (5) years. Following public notice and comment, as provided by 30 TAC § 205.3 (relating to Public Notice, Public Meetings, and Public Comment), the commission may amend, revoke, cancel, or renew this general permit. If the TCEQ publishes a notice of its intent to renew or amend this general permit before the expiration date, the permit will remain in effect for existing, authorized, discharges until the commission takes final action on the permit. Upon issuance of a renewed or amended permit, permittees may be required to submit an NOI within 90 days following the effective date of the renewed or amended permit, unless that permit provides for an alternative method for obtaining authorization.

In the event that the general permit is not renewed, discharges that are authorized under the general permit must obtain either a TPDES individual permit or coverage under an alternative general permit.

Part III. Storm Water Pollution Prevention Plans (SWP3)

Storm water pollution prevention plans must be prepared for storm water discharges that will reach Waters of the United States, including discharges to MS4 systems and privately owned separate storm sewer systems that drain to Waters of the United States, to identify and address potential sources of pollution that are reasonably expected to affect the quality of discharges from the construction site, including off-site material storage areas, overburden and stockpiles of dirt, borrow areas, equipment staging areas, vehicle repair areas, fueling areas, etc., used solely by the permitted project. The SWP3 must describe and ensure the implementation of practices that will be used to reduce the pollutants in storm water discharges associated with construction activity at the construction site and assure compliance with the terms and conditions of this permit.

Individual operators at a site may develop separate SWP3s that cover only their portion of the project provided reference is made to the other operators at the site. Where there is more than one SWP3 for a site, permittees must coordinate to ensure that BMPs and controls are consistent, and do not negate or impair the effectiveness of each other. Regardless of whether a single comprehensive SWP3 is developed, or separate SWP3s are developed for each operator, it is the responsibility of each operator to ensure that compliance with the terms and conditions of this general permit is met in the areas of the construction site where that operator has operational control over construction plans and specifications or day-to-day operational control.

Section A. Shared SWP3 Development

For more effective coordination of BMPs and opportunities for cost sharing, a cooperative effort by the different operators at a site is encouraged. Operators must independently submit an NOI and obtain authorization, but may work together to prepare and implement a single comprehensive SWP3 for the entire construction site.

1. The SWP3 must clearly list the name and, for large construction activities, the general permit authorization numbers, for each operator that participates in the shared SWP3. Until the TCEQ responds to receipt of the NOI with a general permit authorization number, the SWP3 must specify the date that the NOI was submitted to TCEQ by each operator. Each participant in the shared plan must also sign the SWP3.
2. The SWP3 must clearly indicate which operator is responsible for satisfying each shared requirement of the SWP3. If the responsibility for satisfying a requirement is not described in the plan, then each permittee is entirely responsible for meeting the requirement within the boundaries of the construction site where they perform construction activities. The SWP3 must clearly describe responsibilities for meeting each requirement in shared or common areas.

Section B. Responsibilities of Operators

1. Operators with Control Over Construction Plans and Specifications

All operators with operational control over construction plans and specifications to the extent necessary to meet the requirements and conditions of this general permit must:

- (a) ensure the project specifications allow or provide that adequate BMPs may be developed to meet the requirements of Part III of this general permit;
- (b) ensure that the SWP3 indicates the areas of the project where they have operational control over project specifications (including the ability to make modifications in specifications);
- (c) ensure all other operators affected by modifications in project specifications are notified in a timely manner such that those operators may modify best management practices as are necessary to remain compliant with the conditions of this general permit; and
- (d) ensure that the SWP3 for portions of the project where they are operators indicates the name and TPDES permit numbers for permittees with the day-to-day operational control over those activities necessary to ensure compliance with the SWP3 and other permit conditions. In the case that responsible parties have not been identified, the permittee with operational control over project specifications must be considered to be the responsible party until such time as the authority is transferred to another party and the plan is updated.

2. Operators with Day-to-Day Operational Control

Operators with day-to-day operational control of those activities at a project that are necessary to ensure compliance with a SWP3 and other permit conditions must:

- (a) ensure that the SWP3 for portions of the project where they are operators meets the requirements of this general permit;
- (b) ensure that the SWP3 identifies the parties responsible for implementation of best management practices described in the plan;
- (c) ensure that the SWP3 indicates areas of the project where they have operational control over day-to-day activities;
- (d) ensure that the SWP3 indicates, for areas where they have operational control over day-to-day activities, the name and TPDES permit number of the parties with operational control over project specifications (including the ability to make modifications in specifications).

Section C. Deadlines for SWP3 Preparation and Compliance

1. The SWP3 must be:

- (a) completed prior to obtaining authorization under this general permit;
- (b) implemented prior to commencing construction activities that result in soil disturbance;
- (c) updated as necessary to reflect the changing conditions of new operators, new areas of responsibility, and changes in best management practices; and
- (d) prepared so that it provides for compliance with the terms and conditions of this general permit.

Section D. Plan Review and Making Plans Available

- 1. The SWP3 must be retained on-site at the construction site or, if the site is inactive or does not have an on-site location to store the plan, a notice must be posted describing the location of the SWP3. The SWP3 must be made readily available at the time of an on-site inspection to: the executive director; a federal, state, or local agency approving sediment and erosion plans, grading plans, or storm water management plans; local government officials; and the operator of a municipal separate storm sewer receiving discharges from the site.
- 2. Operators of a large construction activity obtaining authorization to discharge through submission of a NOI must post a notice near the main entrance of the

construction site. If the construction project is a linear construction project (e.g. pipeline, highway, etc.), the notice must be placed in a publicly accessible location near where construction is actively underway. Notice for these linear sites may be relocated, as necessary, along the length of the project. The notice must be readily available for viewing by the general public, local, state, and federal authorities, and contain the following information:

- (a) the TPDES general permit number for the project (or a copy of the NOI that was submitted to the TCEQ if a permit number has not yet been assigned);
 - (b) the name and telephone number of a representative for the operator;
 - (c) a brief description of the project; and
 - (d) the location of the SWP3.
3. This permit does not provide the general public with any right to trespass on a construction site for any reason, including inspection of a site; nor does this permit require that permittees allow members of the general public access to a construction site.

Section E. Keeping Plans Current

The permittee must revise or update the storm water pollution prevention plan whenever:

- 1. there is a change in design, construction, operation, or maintenance that has a significant effect on the discharge of pollutants and that has not been previously addressed in the SWP3; or
- 2. results of inspections or investigations by site operators, operators of a municipal separate storm sewer system receiving the discharge, authorized TCEQ personnel, or a federal, state or local agency approving sediment and erosion plans indicate the SWP3 is proving ineffective in eliminating or significantly minimizing pollutants in discharges authorized under this general permit.

Section F. Contents of SWP3

The SWP3 must include, at a minimum, the information described in this section.

- 1. A site description, or project description must be developed to include:
 - (a) a description of the nature of the construction activity, potential pollutants and sources;
 - (b) a description of the intended schedule or sequence of major activities that will disturb soils for major portions of the site;

- (c) the total number of acres of the entire property and the total number of acres where construction activities will occur, including off-site material storage areas, overburden and stockpiles of dirt, and borrow areas;
 - (d) data describing the soil or the quality of any discharge from the site;
 - (e) a map showing the general location of the site (e.g. a portion of a city or county map);
 - (f) a detailed site map (or maps) indicating the following:
 - (i) drainage patterns and approximate slopes anticipated after major grading activities;
 - (ii) areas where soil disturbance will occur;
 - (iii) locations of all major structural controls either planned or in place;
 - (iv) locations where stabilization practices are expected to be used;
 - (v) locations of off-site material, waste, borrow, fill, or equipment storage areas;
 - (vi) surface waters (including wetlands) either adjacent or in close proximity; and
 - (vii) locations where storm water discharges from the site directly to a surface water body.
 - (g) the location and description of asphalt plants and concrete plants providing support to the construction site and authorized under this general permit;
 - (h) the name of receiving waters at or near the site that will be disturbed or that will receive discharges from disturbed areas of the project; and
 - (i) a copy of this TPDES general permit.
2. The SWP3 must describe the best management practices that will be used to minimize pollution in runoff. The description must identify the general timing or sequence for implementation. At a minimum, the description must include the following components:
- (a) Erosion and Sediment Controls
 - (i) Erosion and sediment controls must be designed to retain sediment on-site to the extent practicable with consideration for local

topography, soil type, and rainfall. Controls must also be designed and utilized to reduce the offsite transport of suspended sediments and other pollutants if it is necessary to pump or channel standing water from the site.

- (ii) Control measures must be properly selected, installed, and maintained according to the manufacturer's or designer's specifications. If periodic inspections or other information indicates a control has been used incorrectly, or that the control is performing inadequately, the operator must replace or modify the control as soon as practicable after discovery that the control has been used incorrectly, is performing inadequately, or is damaged.
- (iii) Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%.
- (iv) If sediment escapes the site, accumulations must be removed at a frequency to minimize further negative effects, and whenever feasible, prior to the next rain event.
- (v) Controls must be developed to limit, to the extent practicable, offsite transport of litter, construction debris, and construction materials.

(b) Stabilization Practices

The SWP3 must include a description of interim and permanent stabilization practices for the site, including a schedule of when the practices will be implemented. Site plans should ensure that existing vegetation is preserved where it is possible.

- (i) Stabilization practices may include but are not limited to: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of existing trees and vegetation, and other similar measures.
- (ii) The following records must be maintained and either attached to or referenced in the SWP3, and made readily available upon request to the parties in Part III.D.1 of this general permit:
 - (a) the dates when major grading activities occur;
 - (b) the dates when construction activities temporarily or permanently cease on a portion of the site; and

- (c) the dates when stabilization measures are initiated.
- (iii) Stabilization measures must be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and except as provided in (a) through (c) below, must be initiated no more than fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased.
 - (a) Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practicable.
 - (b) Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of site.
 - (c) In arid areas (areas with an average rainfall of 0 to 10 inches), semiarid areas (areas with an average annual rainfall of 10 to 20 inches), and areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practicable.

3. Structural Control Practices

The SWP3 must include a description of any structural control practices used to divert flows away from exposed soils, to limit the contact of runoff with disturbed areas, or to lessen the off-site transport of eroded soils.

- (a) Sediment basins are required, where feasible for common drainage locations that serve an area with ten (10) or more acres disturbed at one time, a temporary (or permanent) sediment basin that provides storage for a calculated volume of runoff from a 2-year, 24-hour storm from each disturbed acre drained, or equivalent control measures, shall be provided where attainable until final stabilization of the site. Where rainfall data is not available or a calculation cannot be performed, a temporary (or permanent) sediment basin providing 3,600 cubic feet of storage per acre drained is required where attainable until final stabilization of the site. When calculating the volume of runoff from a 2-year, 24-hour storm event, it is not required to include the flows from offsite areas and flow from onsite areas that are either undisturbed or have already undergone final stabilization, if

these flows are diverted around both the disturbed areas of the site and the sediment basin. In determining whether installing a sediment basin is feasible, the permittee may consider factors such as site soils, slope, available area on site, public safety, precipitation patterns, site geometry, site vegetation, infiltration capacity, geotechnical factors, depth to groundwater and other similar considerations. Where sediment basins are not feasible, equivalent control measures, which may include a series of smaller sediment basins, must be used. At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions) of the construction area.

- (b) Sediment traps and sediment basins may also be used to control solids in storm water runoff for drainage locations serving less than ten (10) acres. At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions) of the construction. Alternatively, a sediment basin that provides storage for a calculated volume of runoff from a 2-year, 24-hour storm from each disturbed acre drained, or equivalent control measures, may be provided or where rainfall data is not available or a calculation cannot be performed, a temporary (or permanent) sediment basin providing 3,600 cubic feet of storage per acre drained may be provided.

4. Permanent Storm Water Controls

A description of any measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed must be included in the SWP3. Permittees are only responsible for the installation and maintenance of storm water management measures prior to final stabilization of the site or prior to submission of an NOT.

5. Other Controls

- (a) Off-site vehicle tracking of sediments and the generation of dust must be minimized.
- (b) The SWP3 must include a description of construction and waste materials expected to be stored on-site and a description of controls to reduce pollutants from these materials.
- (c) The SWP3 must include a description of pollutant sources from areas other than construction (including storm water discharges from dedicated asphalt plants and dedicated concrete plants), and a description of controls and measures that will be implemented at those sites to minimize pollutant discharges.

- (d) Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel to provide a non-erosive flow velocity from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected.

6. Approved State and Local Plans

- (a) Permittees must ensure the SWP3 is consistent with requirements specified in applicable sediment and erosion site plans or site permits, or storm water management site plans or site permits approved by federal, state, or local officials.
- (b) SWP3s must be updated as necessary to remain consistent with any changes applicable to protecting surface water resources in sediment erosion site plans or site permits, or storm water management site plans or site permits approved by state or local official for which the permittee receives written notice.

7. Maintenance

All erosion and sediment control measures and other protective measures identified in the SWP3 must be maintained in effective operating condition. If through inspections the permittee determines that BMPs are not operating effectively, maintenance must be performed before the next anticipated storm event or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable. Erosion and sediment controls that have been intentionally disabled, run-over, removed, or otherwise rendered ineffective must be replaced or corrected immediately upon discovery.

8. Inspections of Controls

In the event of flooding or other uncontrollable situations which prohibit access to the inspection sites, inspections must be conducted as soon as access is practicable

- (a) Personnel provided by the permittee and familiar with the SWP3 must inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, and structural controls for evidence of, or the potential for, pollutants entering the drainage system. Sediment and erosion control measures identified in the SWP3 must be inspected to ensure that they are operating correctly. Locations where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking. Inspections must be conducted at least once every fourteen (14) calendar days and within twenty four (24) hours of the end of a storm event of 0.5 inches or greater.

Where sites have been finally or temporarily stabilized, where runoff is unlikely due to winter conditions (e.g. site is covered with snow, ice, or frozen ground exists), or during seasonal arid periods in arid areas (areas with an average annual rainfall of 0 to 10 inches) and semi-arid areas (areas with an average annual rainfall of 10 to 20 inches), inspections must be conducted at least once every month.

As an alternative to the above-described inspection schedule of once every fourteen (14) calendar days and within twenty four (24) hours of a storm event of 0.5 inches or greater, the SWP3 may be developed to require that these inspections will occur at least once every seven (7) calendar days. If this alternative schedule is developed, the inspection must occur on a specifically defined day, regardless of whether or not there has been a rainfall event since the previous inspection.

- (b) Utility line installation, pipeline construction, and other examples of long, narrow, linear construction activities may provide inspection personnel with limited access to the areas described in Part III.F.8.(a) above. Inspection of these areas could require that vehicles compromise temporarily or even permanently stabilized areas, cause additional disturbance of soils, and increase the potential for erosion. In these circumstances, controls must be inspected at least once every fourteen (14) calendar days and within twenty four (24) hours of the end of a storm event of 0.5 inches, but representative inspections may be performed. For representative inspections, personnel must inspect controls along the construction site for 0.25 mile above and below each access point where a roadway, undisturbed right-of-way, or other similar feature intersects the construction site and allows access to the areas described in Part III.F.8.(a) above. The conditions of the controls along each inspected 0.25 mile segment may be considered as representative of the condition of controls along that reach extending from the end of the 0.25 mile segment to either the end of the next 0.25 mile inspected segment, or to the end of the project, whichever occurs first.

As an alternative to the above-described inspection schedule of once every fourteen (14) calendar days and within twenty four (24) hours of a storm event of 0.5 inches or greater, the SWP3 may be developed to require that these inspections will occur at least once every seven (7) calendar days. If this alternative schedule is developed, the inspection must occur on a specifically defined day, regardless of whether or not there has been a rainfall event since the previous inspection.

- (c) The SWP3 must be modified based on the results of inspections, as necessary, to better control pollutants in runoff. Revisions to the SWP3 must be completed within seven (7) calendar days following the inspection. If existing BMPs are modified or if additional BMPs are necessary, an implementation schedule must be described in the SWP3 and wherever

possible those changes implemented before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable.

- (d) A report summarizing the scope of the inspection, names and qualifications of personnel making the inspection, the dates of the inspection, and major observations relating to the implementation of the SWP3 must be made and retained as part of the SWP3. Major observations should include: The locations of discharges of sediment or other pollutants from the site; locations of BMPs that need to be maintained; locations of BMPs that failed to operate as designed or proved inadequate for a particular location; and locations where additional BMPs are needed.

Actions taken as a result of inspections must be described within, and retained as a part of, the SWP3. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the facility or site is in compliance with the SWP3 and this permit. The report must be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports)

- 9. The SWP3 must identify and ensure the implementation of appropriate pollution prevention measures for all eligible non-storm water components of the discharge.

Part IV. Numeric Effluent Limitations

Section A. Limitations

All discharges of storm water runoff from concrete batch plants that qualify for coverage, and that are authorized to discharge storm water under the provisions of this general permit must be monitored at the following monitoring frequency and comply with the following numeric effluent limitations:

<u>Parameter</u>	<u>Limitations</u> <u>Daily Maximum</u>	<u>Monitoring</u> <u>Frequency</u>
Total Suspended Solids	65 mg/l	1/Year*
Oil and Grease	15 mg/l	1/Year*
pH	between 6 and 9 standard units	1/Year*

* If discharge occurs.

Section B. Reporting Requirements

Results of monitoring for determining compliance with numeric effluent limitations must be recorded on a discharge monitoring report (DMR). The DMR must either be an original EPA No. 3320-1 form (Attachment 3 of this general permit), a duplicate of the form, or as otherwise provided by the executive director. Monitoring must be conducted prior to December 31st for each annual

monitoring period. A copy of the DMR must either be retained at the facility or shall be made readily available for review by authorized TCEQ personnel upon request, by March 31st following the end of each annual monitoring period. If the results indicate the violation of one or more of these numeric limitations, the permittee must also submit the DMR to the TCEQ's Information Resources Center (MC 212) by March 31st of each annual monitoring period.

Part V. Retention of Records

The permittee must retain the following records for a minimum period of three (3) years from the date that a NOT is submitted as required by Part II.D. For activities that are not required to submit an NOT, records shall be retained for a minimum period of three (3) years from the date that either: final stabilization has been achieved on all portions of the site that is the responsibility of the permittee; or another permitted operator has assumed control according to over all areas of the site that have not been finally stabilized. Records include:

1. A copy of the SWP3 plan.
2. All reports and actions required by this permit, including a copy of the construction site notice.
3. All data used to complete the NOI, if an NOI is required for coverage under this general permit.

Part VI. Standard Permit Conditions

1. The permittee has a duty to comply with all permit conditions. Failure to comply with any permit condition is a violation of the permit and statutes under which it was issued, and is grounds for enforcement action, for terminating coverage under this general permit, or for requiring a discharger to apply for and obtain an individual TPDES permit.
2. Authorization under this general permit may be suspended or revoked for cause. Filing a notice of planned changes or anticipated non-compliance by the permittee does not stay any permit condition. The permittee must furnish to the executive director, upon request and within a reasonable time, any information necessary for the executive director to determine whether cause exists for revoking, suspending, or terminating authorization under this permit. Additionally, the permittee must provide to the executive director, upon request, copies of all records that the permittee is required to maintain as a condition of this general permit.
3. It is not a defense for a discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the permit conditions.
4. Inspection and entry shall be allowed under Texas Water Code Chapters 26-28, Health and Safety Code §§ 361.032-361.033 and 361.037, and 40 Code of Federal Regulations (CFR) §122.41(i). The statement in Texas Water Code § 26.014 that commission entry of a facility shall occur according to an establishment's rules and regulations concerning safety, internal security, and fire protection is not grounds for denial or restriction of entry to any part of the

facility or site, but merely describes the commission's duty to observe appropriate rules and regulations during an inspection.

5. The discharger is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§ 26.136, 26.212, and 26.213 for violations including but not limited to the following:
 - a. negligently or knowingly violating CWA, §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under CWA, § 402, or any requirement imposed in a pretreatment program approved under CWA, §§ 402(a)(3) or 402(b)(8);
 - b. knowingly making any false statement, representation, or certification in any record or other document submitted or required to be maintained under a permit, including monitoring reports or reports of compliance or noncompliance.
6. All reports and other information requested by the executive director must be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).
7. Authorization under this general permit does not convey property or water rights of any sort and does not grant any exclusive privilege.

Part VII. Fees

Section A. Application Fees

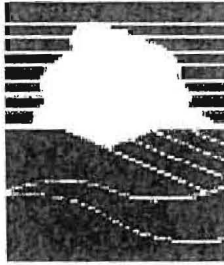
An application fee of \$100 must be submitted with each NOI for coverage of a large construction activity. A fee is not required for submission of an NOT or NOC letter.

Section B. Water Quality Fees

Large construction activities authorized under this general permit must pay an annual Water Quality Fee of \$100 under Texas Water Code 26.0291 and according to TAC Chapter 205 (relating to General Permits for Waste Discharges).

Appendix A.
Periods of Low Erosion Potential by County

<u>Start Date - End Date</u>	<u>Start Date - End Date</u>	<u>Start Date - End Date</u>
Dec. 15 - Feb. 14	Nov. 15 - Apr. 30	Nov. 15 - Jan. 14 or Feb. 1 - Mar. 30
Archer	Andrews	Crockett
Baylor	Armstrong	Dickens
Brown	Borden	Kent
Callahan	Brewster	Motley
Childress	Briscoe	Val Verde
Coke	Carson	
Coleman	Castro	<u>Start Date - End Date</u>
Concho	Crane	Nov. 1 - Apr. 14 or Nov. 15 - Apr. 30
Cottle	Crosby	Dallam
Dimmit	Dawson	Hockley
Eastland	Deaf Smith	Lamb
Edwards	Ector	Parmer
Fisher	Floyd	Ward
Foard	Gaines	
Hardeman	Garza	<u>Start Date - End Date</u>
Haskell	Glasscock	Nov. 1 - Apr. 30 or Nov. 15 - May. 14
Irion	Hale	Bailey
Jones	Hansford	Cochran
Kerr	Hartley	Jeff Davis
Kimble	Howard	Loving
King	Hutchinson	Presidio
Kinney	Lubbock	Reeves
Knox	Lynn	Winkler
Mason	Martin	Yoakum
Maverick	Midland	
McCulloch	Mitchell	<u>Start Date - End Date</u>
Menard	Moore	Nov. 1 - May. 14
Nolan	Oldham	Culberson
Real	Pecos	Hudspeth
Runnels	Potter	
Schleicher	Randall	<u>Start Date - End Date</u>
Shackelford	Reagan	Jan. 1 - Jul. 14 or May. 15 - Jul. 31 or
Stephens	Scurry	Jun. 1 - Aug. 14 or Jun. 15 - Sept. 14 or
Stonewall	Sherman	Jul. 1 - Oct. 14 or Jul. 15 - Oct. 31 or
Sutton	Sterling	Aug. 1 - Apr. 30 or Aug. 15 - May. 14 or
Taylor	Swisher	Sept. 1 - May. 30 or Oct. 1 - Jun. 14 or
Throckmorton	Terrell	Nov. 1 - Jun. 30 or Nov. 15 - Jul. 14
Tom Green	Terry	El Paso
Uvalde	Upton	
Wichita		<u>Start Date - End Date</u>
Wilbarger	<u>Start Date - End Date</u>	Jan. 1 - Mar. 30 or Dec. 1 - Feb. 28
Young	Feb. 1 - Mar. 30	Collingsworth Wheeler
Zavala	Hall	Donley
		Gray
		Hemphill
		Lipscomb
		Ochiltree
		Roberts



CONSTRUCTION SITE NOTICE

FOR THE

Texas Commission on Environmental Quality (TCEQ)

Storm Water Program

TPDES GENERAL PERMIT TXR150000

The following information is posted in compliance with **Part II.D.1.** of the TCEQ General Permit Number TXR150000 for discharges of storm water runoff from construction sites. Additional information regarding the TCEQ storm water permit program may be found on the internet at:

www.tnrc.state.tx.us/permitting/waterperm/wwperm/tpdestorm

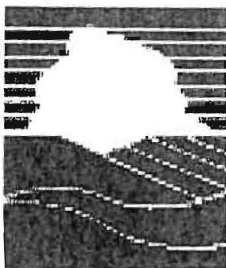
Contact Name and Phone Number:	
Project Description: (Physical address or description of the site's location, estimated start date and projected end date, or date that disturbed soils will be stabilized)	

For Construction Sites Authorized Under Part II.D.1. the following certification must be completed:

I _____ (Typed or Printed Name Person Completing This Certification) certify under penalty of law that I have read and understand the eligibility requirements for claiming an authorization by waiver under Part II.D.1. of TPDES General Permit TXR150000 and agree to comply with the terms of this permit. Construction activities at this site shall occur within a time period listed in Appendix A of the TPDES general permit for this county, that period beginning on _____ and ending on _____. I understand that if construction activities continue past this period, all storm water runoff must be authorized under a separate provision of this general permit. A copy of this signed notice is supplied to the operator of the MS4 if discharges enter an MS4 system. I am aware there are significant penalties for providing false information or for conducting unauthorized discharges, including the possibility of fine and imprisonment for knowing violations.

Signature and Title

Date



CONSTRUCTION SITE NOTICE

FOR THE

Texas Commission on Environmental Quality (TCEQ)

Storm Water Program

TPDES GENERAL PERMIT TXR150000

The following information is posted in compliance with **Part II.D.2.** of the TCEQ General Permit Number TXR150000 for discharges of storm water runoff from construction sites. Additional information regarding the TCEQ storm water permit program may be found on the internet at:

www.tnrc.state.tx.us/permitting/waterperm/wwperm/tpdestorm

Contact Name and Phone Number:	
Project Description: ((Physical address or description of the site's location, estimated start date and projected end date, or date that disturbed soils will be stabilized))	
Location of Storm Water Pollution Prevention Plan :	

For Construction Sites Authorized Under Part II.D.2. (Obtaining Authorization to Discharge) the following certification must be completed:

I _____ (Typed or Printed Name Person Completing This Certification) certify under penalty of law that I have read and understand the eligibility requirements for claiming an authorization under Part II.D.2. of TPDES General Permit TXR150000 and agree to comply with the terms of this permit. A storm water pollution prevention plan has been developed and implemented according to permit requirements. A copy of this signed notice is supplied to the operator of the MS4 if discharges enter an MS4 system. I am aware there are significant penalties for providing false information or for conducting unauthorized discharges, including the possibility of fine and imprisonment for knowing violations.

Signature and Title

Date

CONCRETE BATCH FACILITIES

STW/ TXR15_____/ CO

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
(NPDES)NOTE: Enter your permit number in the
underlined space in the upper right hand
corner of this page. Example: STW/TXR15 00123/ CO

NAME

DISCHARGE MONITORING REPORT (DMR)

ADDRESS

(2-16)

(17-19)

FACILITY
LOCATION

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
	01	01		12	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

Mail to: TCEQ (MC 212)
P.O. Box 13087
Austin, TX 78711-3087

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)			
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS						
Total Suspended Solids	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****								
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	65 Daily Max	mg/l		1 Year	Grab			
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****								
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	15 Daily Max	mg/l		1 Year	Grab			
pH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****								
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	6.0 - 9.0 Range	S.U.		1 Year	Grab			
	SAMPLE MEASUREMENT													
	SAMPLE REQUIREMENT													
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.				TELEPHONE		DATE						
TYPED OR PRINTED						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE		NUMBER		YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SWPPP CERTIFICATIONS

Certifications of this SWPPP by an Officer of the entity acting as Operator on this construction project, and the person assigned responsibility for SWPPP Site Inspections, is located in this section. The appropriate Inspector(s) qualifications are also located in this section.

SWPPP INSPECTOR AUTHORIZATION

SWPPP Inspection authority is delegated to qualified personnel by an Officer of the Operator entity in the document located in this section.

NOTICE OF INTENT [NOI] / CONSTRUCTION SITE NOTICE [CSN]

A copy of the Notice of Intent (NOI) filed with the TCEQ and a copy of the Construction Site Notice posted at this site is provided in this section.

The NOI filed, posted and incorporated herein was filed by the entity meeting the definition of an "Operator" as indicated by the Texas General Permit. The Owner of this project does not meet the criteria required for purposes of filing under the General Permit as an "Operator."


MS4 NOTIFICATION

This site is located within the MS4 jurisdiction of Comal County. This entity has been notified of the project by means of the letter copied herein and a copy of the NOI/Construction Site Notice noted above.

STORM WATER POLLUTION PREVENTION PLAN CERTIFICATION

OPERATOR

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed:  *
D.L. Bandy Constructors, Inc.

Title: Vice President

Date: 8/21/07

* Persons signing this certification must do so in compliance with the signatory requirements of the Construction General Permit as found at CFR 122.22:

For a corporation: by a responsible corporation officer. This means a President, Vice-President, Secretary, Treasurer, Manager as defined by 40 CFR 122.22 (07-01-00).

For a partnership or sole proprietorship: by a General Partner or the Proprietor.

For a Municipality, State, Federal or other public agency: a principal executive or ranking elected official.

June 28, 2007



Executive Director
Texas Commission on Environmental Quality
Storm Water and Pretreatment Team
P.O. Box 13087, MC-148
Austin, TX 78711-3087

Subject: Delegation for Signatories to Reports

Project Site Name: Smithson Valley Middle School Additions and Renovations
TPDES Permit Number: Not Yet Assigned

Dear Executive Director:

This letter serves to designate the following people or positions as authorized personnel for signing reports, storm water pollution prevention plans, certifications or other information requested by the Executive Director or required by the general permit, as set forth by 30 TAC §305.128.

Site Inspector Doug Posey or Jim McCown

I understand that this authorization does not extend to the signing of a Notice of Intent for obtaining coverage under a storm water general permit.

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in 30 TAC §305.44.

Sincerely,



D. L. Bandy Constructors, Inc.

Vice President

Title

8/22/07

Date

June 28, 2007

Executive Director
Texas Commission on Environmental Quality
Storm Water and Pretreatment Team
P.O. Box 13087, MC-148
Austin, TX 78711-3087

Subject: Delegation for Signatories to Reports

Project Site Name: Smithson Valley Middle School Additions and Renovations
TPDES Permit Number: Not Yet Assigned

Dear Executive Director:

This letter serves to designate the following people or positions as authorized personnel for signing reports, storm water pollution prevention plans, certifications or other information requested by the Executive Director or required by the general permit, as set forth by 30 TAC §305.128.

Site Inspector _____

I understand that this authorization does not extend to the signing of a Notice of Intent for obtaining coverage under a storm water general permit.

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in 30 TAC §305.44.

Sincerely,

D. L.. Bandy Constructors, Inc.

Title

Date

STORM WATER POLLUTION PREVENTION PLAN CERTIFICATION

SWPPP INSPECTOR CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Inspector Qualifications Statement

I have read and understand the Texas General Permit (TXR150000). I am familiar with this job site and have read and understand the SWPPP for this project. I also understand my obligations herein.

Additional qualifications include:

Signed: 

Title: VICE PRESIDENT

Date: 8/22/07

AMMENDMENTS LOG

Amendment No.	Date	Brief Description of Amendment	Prepared By

COPY OF NOTICE OF INTENT
(NOI)



Notice of Intent (NOI) for Storm Water
Discharges Associated with Construction
Activity under TPDES General Permit
(TXR150000)

TCEQ Office Use Only
Permit No.:
RN:
CN:



Sign up now for on line NOI at <http://www.tceq.state.tx.us/permitting/storm/storm.html> Get Instant Approval

Did you know you can pay on line? Go to <https://www6.tceq.state.tx.us/pay/>

Select Fee Type: GENERAL PERMIT CONSTRUCTION STORM WATER DISCHARGE NOI APPLICATION

Application Fee: You must pay the \$100 Application Fee to TCEQ for the application to be considered complete.

How did you pay this fee?

Mailed: <input checked="" type="checkbox"/>	Check/Money Order No.: 19182	Name Printed on Check: D.L. Bandy Constructors, Inc.
EPAY: <input type="checkbox"/>	Voucher No.:	Is the Payment Voucher copy attached? <input type="checkbox"/> Yes

IMPORTANT:

• Use the attached INSTRUCTIONS when completing this form.

• After completing this form, use the attached CUSTOMER CHECKLIST to make certain all items are complete and accurate.

• Missing, illegible, or inaccurate items may delay final acknowledgment or coverage under the general permit.

A. OPERATOR (applicant)

1. If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? CN 802797080

2. What is the full Legal Name of the applicant?

D.L. Bandy Constructors, Inc.

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

3. What is the applicant's mailing address as recognized by the US Postal Service?

Address: P.O. Box 1529		Suite No./Bldg. No./Mail Code:	
City: San Marcos	State: TX	ZIP Code: 78667	
Country Mailing Information (if outside USA):		Country Code:	Postal Code:

4. Phone No.: (512) 754-8881

Extension:

5. Fax No.: (512) 754-8879

E-mail Address:

6. Indicate the type of Customer:

<input type="checkbox"/> Individual	<input type="checkbox"/> Sole Proprietorship-D.B.A.	<input type="checkbox"/> Limited Partnership
<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Federal Government	<input type="checkbox"/> General Partnership
<input type="checkbox"/> State Government	<input type="checkbox"/> County Government	<input type="checkbox"/> City Government
<input type="checkbox"/> Other:		

7. Independent Operator: ☒ Yes ☐ No (If governmental entity, subsidiary, or part of a larger corporation, check "No".)

8. Number of Employees: ☒ 0-20; ☐ 21-100; ☐ 101-250; ☐ 251-500; or ☐ 501 or higher

9. Customer Business Tax and Filing Numbers (This item is not applicable to Individuals, Government, GP or Sole Proprietor.)

REQUIRED for Corporations and Limited Partnerships

State Franchise Tax ID Number: 17428959908

Federal Tax ID: 742895990

TX SOS Charter (Filing) Number: 0130128800

DUNS Number (if known):

B. BILLING ADDRESS

The Operator is responsible for paying the annual fee. The annual fee will be assessed to permits active on September 1 of each year. TCEQ will send a bill to the address provided in this section. The Operator is responsible for terminating the permit when it is no longer needed.

Is the billing address same as the Operator Address? ☒ Yes, go to Section C. ☐ No, fill out Section B

1. Billing Mailing Address:		Suite No./Bldg. No./Mail Code:	
City:	State:	ZIP Code:	
2. Country Mailing Information (if outside USA):		Territory:	Country Code: Postal Code:
3. Billing Contact (Attn or C/O):			
4. Phone No.: ()		Extension:	
5. Fax No.: ()		E-mail Address:	

C. APPLICATION CONTACT			
If TCEQ needs additional information regarding this application, who should be contacted?			
1. Name: Jim McCown	Title: Project Manager	Company: D.L. Bandy Constructors, Inc.	
2. Phone No.: (512) 738-0390	Extension:		
3. Fax No.: 512 754-8879	E-mail Address: jim@dibandy.com		
D. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE			
1. TCEQ issued RE Reference Number (RN) (if available):			
2. Name of Project or Site (the name as known by the community where this facility/project is located): Smithson Valley Middle School Additions and Renovations (example: phase and name of subdivision or name of project that's unique to the site)			
3. Physical Address of Project or Site: (enter in spaces below)			
Street Number: 8101		Street Name: FM 311	
City: Spring Branch		ZIP Code: 78070	County (Counties if >1): Comal
4. If no physical address (Street Number & Street Name), provide a written location access description to the site: (Ex.: phase 1 of Woodland subdivision located 2 miles west from intersection of Hwy 290 & IH35 accessible on Hwy 290 South)			
5. Latitude: 29.82114° N		Longitude: 98.34573° W	
6. What is the primary business of this entity? In your own words, briefly describe the primary business of the Regulated Entity: (Do not repeat the SIC and NAICS code) Construct new tennis courts and additions to the existing library and administration buildings with associated road improvements and sedimentation pond.			
7. What is the mailing address and contact information for the regulated entity?			
Is the RE mailing address the same as the Operator? <input checked="" type="checkbox"/> Yes, address is the same as Operator <input type="checkbox"/> No, provide the address			
Street Number:		Street Name:	
City:	State:	ZIP Code:	
E. GENERAL CHARACTERISTICS			
1. I certify that the project/site is not located on Indian Country Lands? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, you must obtain authorization through EPA, Region VI.			
2. Is this NOI being submitted due to a change in Operator? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3. What is the Standard Industrial Classification (SIC) code (see instructions for common codes): Primary: 1542 Secondary:			
4. What is the total number of acres disturbed? 2.5 Is the project site part of a larger common plan of development or sale? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, the total number of acres disturbed can be less than 5 acres. If No, the total number of acres disturbed must be 5 or more. If the total number of acres disturbed is less than 5 then the project site does not qualify for coverage through this Notice of Intent. Coverage will be denied. See the requirements in the general permit for small construction sites.			
5. Discharge Information			
a. What is the name of the first water body to receive the storm water runoff or potential runoff from the site? Guadalupe River above Canyon Lake			
b. What is the segment number(s) of the classified water body(s) that the discharge or potential discharge will eventually reach? 808			
c. Is the discharge into an MS4? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, what is the name of the MS4 Operator? Spring Branch Note: The general permit requires you to send a copy of the NOI to the MS4 Operator.			
d. Is the discharge or potential discharge within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If the answer is Yes, please note that a copy of the agency approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) must be included in the Storm Water Pollution Prevention Plan.			

F. CERTIFICATION	
<p>Check "Yes" to the certifications below. Failure to indicate "Yes" to ALL items may result in denial of coverage under the general permit.</p>	
<p><input checked="" type="checkbox"/> Yes I certify that I have obtained a copy and understand the terms and conditions of the general permit TX150000.</p> <p><input checked="" type="checkbox"/> Yes I certify that the activities at this site qualify for coverage under the general permit TX150000.</p> <p><input checked="" type="checkbox"/> Yes I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed.</p> <p><input checked="" type="checkbox"/> Yes I understand that permits active on September 1st of each year will be assessed an Annual Water Quality Fee.</p> <p><input checked="" type="checkbox"/> Yes I certify that a Storm Water Pollution Prevention Plan (SWPP3) has been prepared and implemented as required by the general permit.</p>	<p>Operator Certification:</p> <p>I, <u>SARA PEASSTAW</u> (Typed or printed name) <u>(Signature)</u></p> <p><u>Vice President</u> (Title)</p> <p>I certify under penalty of law that this document and all statements were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.</p> <p>I further certify that I am authorized under 36 Texas Administrative Code §305.46 to sign and submit this document, and can provide documentation in proof of such authorization upon request.</p> <p style="text-align: right;">Signature: <u>(Signature)</u> (Use Blue Ink)</p> <p style="text-align: right;">Date: <u>8/28/07</u></p>

Texas Commission on Environmental Quality
General Permit Payment Submittal Form

Use this form to submit your Application Fee only if you are making your payment.

- * Complete items 1 through 7 below.
- * Staple your check in the space provided at the bottom of this document.
- * Do not mail this form with your NCI form.
- * Do not mail this form to the same address as your NCI.

Mail this form and your check to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality
Financial Administration Division

Casey's Office, MC-214

P.O. Box 13088

Austin, TX 78711-3088

Form Code: GPA
General Permit: TXR150000

1. Check / Money Order No. 19182

2. Amount of Check/Money Order \$100.00

3. Date of Check or Money Order 8/28/07

4. Name on Check or Money Order D.L. Bandy Constructors, Inc.

5. NCI INFORMATION

If the check is for more than one NCI, list each Project/State (R/S) Name and Physical Address clearly as provided on the NCI. DO NOT SUBMIT A COPY OF THIS NCI WITH THIS FORM AS IT COULD CAUSE DUPLICATES PERMIT ENTRIES.

See Attached List of Sites (If more space is needed, you may attach a list.)

Project/State (R/S) Name:

Smithson Valley Middle School Additions and Renovations

Project/State (R/S) Physical Address:

8101 FM 311

Spring Branch, TX 76070

D.L. BANDY CONSTRUCTORS, INC.

P.O. BOX 1529 512-754-6661
SAN MARCOS, TX 78667-1529

BB-2193/140

BROADWAY BANK
101 NORTH ON ALLEN PKWY
SAN MARCOS, TX 78668

19182

ONE HUNDRED DOLLARS AND NO CENTS

DATE

AMOUNT

08/28/07

PAY
TO THE
ORDER
OF

09182 1147019333 0012070555

TCEQ Core Data Form

TCEQ Use Only

If you have questions on how to fill out this form or about our Central Registry, please contact us at 512-239-5175.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512-239-3282.

SECTION I: General Information

1. Reason for Submission *Example: new wastewater permit; IHW registration; change in customer information; etc.*

Contributing Zone Plan

2. Attachments Describe Any Attachments: (ex: Title V Application, Waste Transporter Application, etc.)

☒ YES ☐ NO TCEQ Forms 10257, 10258; SWPPP

3. Customer Reference Number-if issued

4. Regulated Entity Reference Number-if issued

CN

CN6000249825

(9 digits)

RN

(9 digits)

SECTION II: Customer Information

5. Customer Role (Proposed or Actual) -- As It Relates to the Regulated Entity Listed on This Form

New Braunfels Independent School District

Please check one of the following:

Owner

Operator

☒

Owner and Operator

Occupational Licensee

Volunteer Cleanup Applicant

Other

TCEQ Use Only

Superfund

PST

Respondent

6. General Customer Information

New Customer

Change to Customer Information

Change in Regulated Entity Ownership

☒

No Change *

***If a No Change and Section I is complete, skip to Section III - Regulated Entity Information.**

7. Type of Customer:

Individual

Sole Proprietorship - D.B.A.

Partnership

Corporation

Federal Government

State Government

County Government

City Government

Other Government

School District

Other:

8. Customer Name (If an individual, please print last name first)

If new name, enter previous name:

9. Mailing Address:

10. Country Mailing Information if outside USA

11. E-Mail Address if applicable

12. Telephone Number

13. Extension or Code

14. Fax Number if applicable

(830) 221-2000

15. Federal Tax ID (9 digits)

16. State Franchise Tax ID Number if applicable

17. DUNS Number if applicable
(9 digits)

18. Number of Employees

0-20

21-100

101-250

251-500

501 and higher

19. Independently Owned and Operated?

Yes

No

SECTION III: Regulated Entity Information

20. General Regulated Entity Information

☒ New Regulated Entity

Change to Regulated Entity Information

No Change*

*If "No Change" and Section I is complete, skip to Section IV - Preparer Information.

21. Regulated Entity Name <i>(If an individual, please print last name first)</i>						
Smithson Valley Middle School						
22. Street Address (No PO Boxes)		6101 FM 311				
		City		State	ZIP	ZIP + 4
		Spring Branch		Texas	78070	7248
23. Mailing Address		6101 FM 311				
		City		State	ZIP	ZIP + 4
		Spring Branch		Texas	78070	7248
24. E-Mail Address:						
25. Telephone Number		26. Extension or Code		27. Fax Number if applicable		
(830) 885-1200				(830) 885-1201		
28. Primary SIC Code (4 digits)		29. Secondary SIC Code (4 digits)		30. Primary NAICS Code (5 or 6 digits)		
8211				611110		
31. Secondary NAICS Code (5 or 6 digits)						
32. What is the Primary Business of this entity? <i>(Please do not repeat the SIC or NAICS description)</i>						
Middle School						
Questions 33 - 37 address geographic location. Please refer to the instructions for applicability.						
33. County		Comal				
34. Description of Physical Location						
On south side of FM 311, 1 mile past intersection of FM 311 and FM 3159						
35. Nearest City			State		Nearest Zip	
Spring Branch			Texas		78070	
36. Latitude (N)			37. Longitude (W)			
<i>Degrees</i>	<i>Minutes</i>	<i>Seconds</i>	<i>Degrees</i>	<i>Minutes</i>	<i>Seconds</i>	
29	82	11	98	34	57	
38. TCEQ Programs In Which This Regulated Entity Participates <i>Not all programs have been listed. Please add to this list as needed. If you don't know or are unsure, please mark "Unknown". If you know a permit or registration # for this entity, please write it below the program.</i>						
Animal Feeding Operation		Petroleum Storage Tank		Water Rights		
Title V - Air		Wastewater Permit		Water Pollution Abatement		
Industrial & Hazardous Waste		Water Districts		✓	Contributing Zone Plan	
Municipal Solid Waste		Water Utilities		Unknown		
New Source Review - Air		Licensing - TYPE(s)				
Section IV: Preparer Information						
39. Name			40. Title			
Thomas Bloxham			Assistant Superintendent for Support Services			
41. Telephone Number		42. Extension or Code		43. Fax Number if applicable		
(830) 221-2039						
44. E-mail Address:						



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



RECEIVED

FEB 02 2017

COUNTY ENGINEER

**NOTICE OF APPLICATION AND PRELIMINARY DECISION
FOR WATER QUALITY LAND APPLICATION PERMIT
FOR MUNICIPAL WASTEWATER
RENEWAL**

PERMIT NO. WQ0013812001

APPLICATION AND PRELIMINARY DECISION. Comal Independent School District, 1404 Interstate Highway 35 North, New Braunfels, Texas 78130, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of TCEQ Permit No. WQ0013812001, which authorizes the disposal of treated domestic wastewater at a daily average flow not to exceed 12,000 gallons per day via public access subsurface area drip dispersal system with a minimum area of 2.7548 acres. This permit will not authorize a discharge of pollutants into waters in the state. TCEQ received this application on August 26, 2016.

The wastewater treatment facility and disposal site are located at 1165 Sattler Road, Canyon Lake, in Comal County, Texas 78132. The wastewater treatment facility and disposal site are located in the drainage basin of Guadalupe River Below Canyon Dam in Segment No. 1812 of the River Basin.

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at the Comal Independent School District Administrative Building, 1404 Interstate 35 North, New Braunfels, Texas. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application.

<http://www.tceq.texas.gov/assets/public/hb610/index.html?lat=29.849444&lng=-98.165833&zoom=13&type=1>

CHANGE IN LAW: The Texas Legislature enacted Senate Bill 709, effective September 1, 2015, amending the requirements for comments and contested case hearings. This application is subject to those changes in law.

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ holds a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application.** If comments are received, the mailing will also provide instructions for requesting a contested case hearing or reconsideration of the Executive Director's decision. A contested case hearing is a legal proceeding similar to a civil trial in a state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; **a specific description of how you would be adversely affected by the facility in a way not common to the general public;** a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.** TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

EXECUTIVE DIRECTOR ACTION. The Executive Director may issue final approval of the application unless a timely contested case hearing request or request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the Executive Director will not issue final approval of the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 or electronically at www.tceq.texas.gov/about/comments.html within 30 days from the date of newspaper publication of this notice.

AGENCY CONTACTS AND INFORMATION. If you need more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040. General information about the TCEQ can be found at our web site at www.TCEQ.texas.gov.

Further information may also be obtained from Comal Independent School District at the address stated above or by calling Mr. Michael McCullar at 830-221-2637.

Issuance Date: January 25, 2017