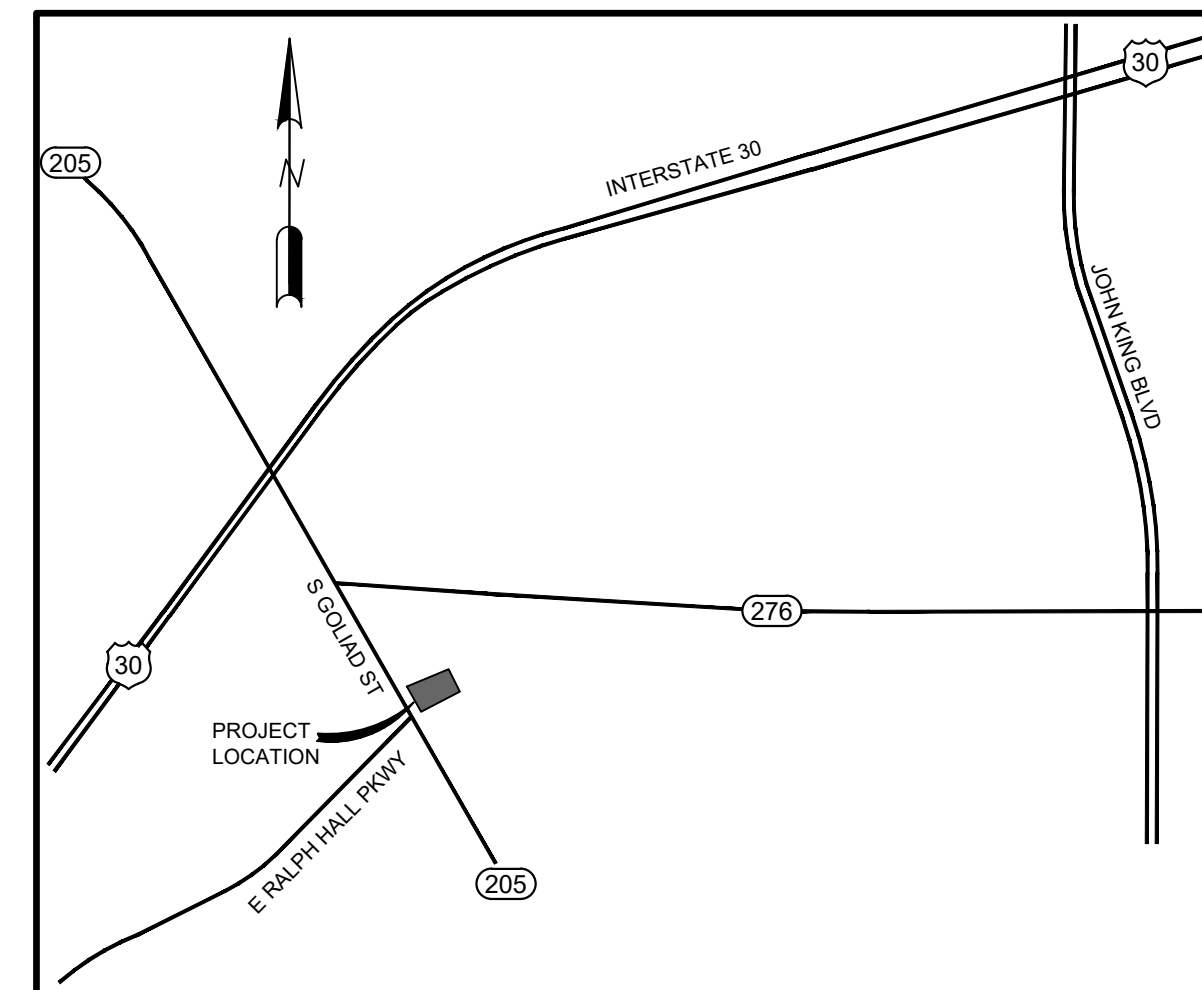


THE CITY OF ROCKWALL, TEXAS PLANS FOR THE CONSTRUCTION OF GRADING, AND DRAINAGE IMPROVEMENTS TO SERVE VALVOLINE EXPRESS CARE DETENTION POND

2325 SOUTH GOLIAD STREET
ROCKWALL, TEXAS 75032



LOCATION MAP

Not To Scale

SHEET INDEX

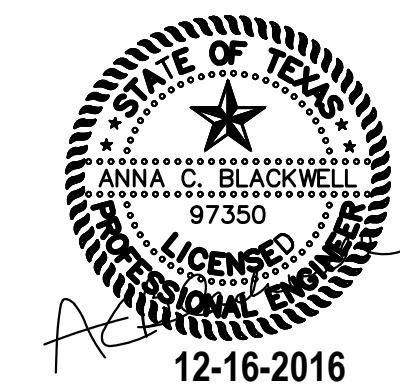
SHEET NO.	DESCRIPTION
C0.00	COVER SHEET
	FINAL PLAT
C1.00	GENERAL NOTES
C2.00	EXISTING DRAINAGE AREA MAP
C2.01	PROPOSED DRAINAGE AREA MAP
C2.02	DETENTION POND PLAN
C2.03	DETENTION POND CALCULATIONS
C3.00	EROSION CONTROL PLAN
C3.01	EROSION CONTROL DETAILS TXDOT DETAIL SETP-PD

OWNED BY:
VALVOLINE EXPRESS CARE
2325 SOUTH GOLIAD STREET
ROCKWALL, TX 75032
PHONE NO.: 972-772-2888
CONTACT: MARLYN ROBERTS

PREPARED BY:



CARRILLO ENGINEERING, LLC
TEXAS BOARD OF PROFESSIONAL ENGINEERS
REGISTRATION NO. F-15893
301 COMMERCE STREET, SUITE 1410
FORT WORTH, TEXAS 76102
PHONE NO.: 817-896-0976
CONTACT: ANNA C BLACKWELL, P.E.

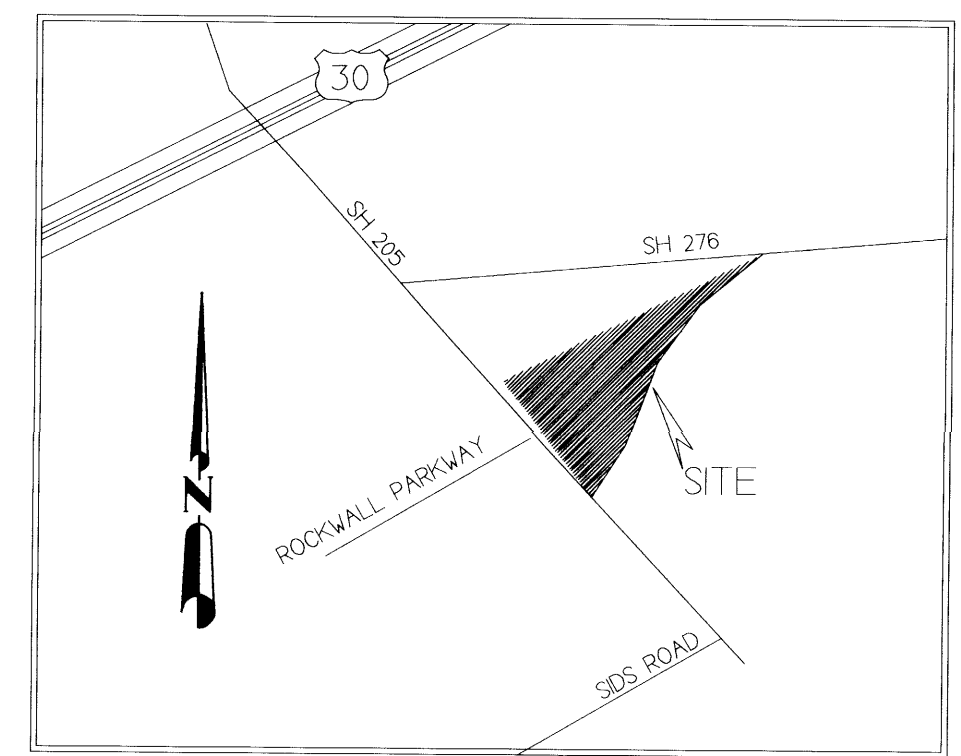
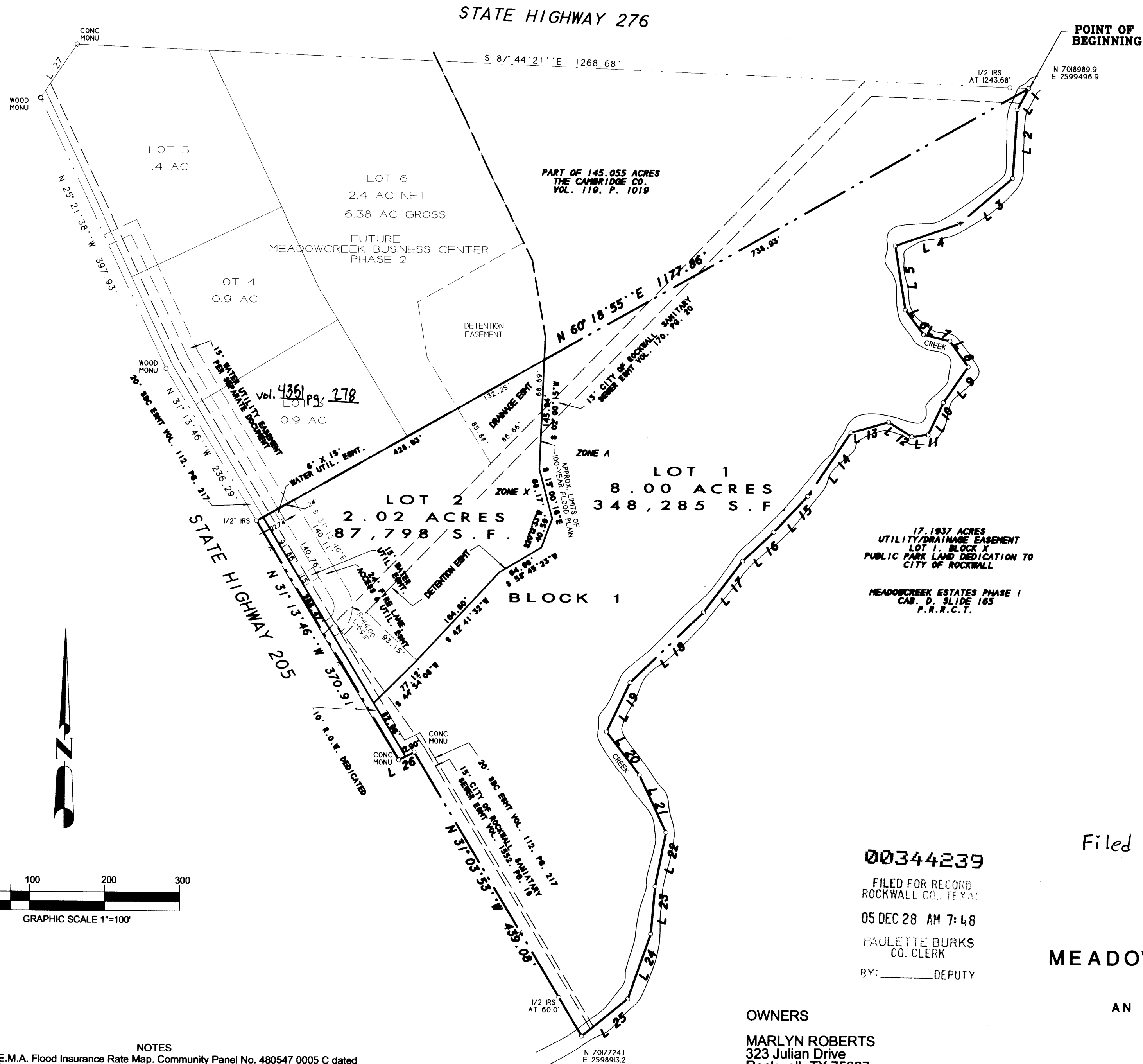


RECORD DRAWING

THIS RECORD DRAWING HAS BEEN REVISED TO CONFORM TO THE CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR. ALIGNMENT AND GRADES SHOWN ON THIS DRAWING WERE NOT FIELD VERIFIED BY THE ENGINEER.

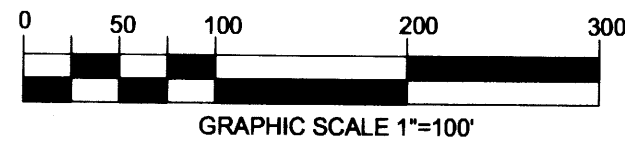
DATE: AUGUST 8, 2018

DECEMBER 2016



LINE DATA

Line	Bearing	Distance
1	S 27°50'47" W	32.49'
2	S 3°19'13" W	91.46'
3	S 49°14'00" W	93.19'
4	S 70°42'21" W	89.63'
5	S 9°28'47" E	86.28'
6	S 36°43'27" E	41.15'
7	S 76°36'24" E	36.22'
8	S 35°38'54" E	42.07'
9	S 34°16'16" W	57.70'
10	S 24°50'49" W	47.56'
11	S 82°44'41" W	21.81'
12	N 58°18'31" W	36.48'
13	S 73°59'46" W	52.11'
14	S 33°43'22" W	102.36'
15	S 42°59'23" W	65.62'
16	S 48°33'18" W	56.64'
17	S 37°04'04" W	85.87'
18	S 45°45'48" W	135.30'
19	S 24°55'40" W	72.73'
20	S 37°44'20" E	72.20'
21	S 25°16'47" E	84.53'
22	S 10°59'48" W	73.10'
23	S 4°39'35" W	63.47'
24	S 18°55'44" W	91.62'
25	S 50°34'42" W	78.99'
26	S 63°18'06" W	22.93'
27	N 34°05'04" E	86.60'



- NOTES**
- 1) According to F.E.M.A. Flood Insurance Rate Map, Community Panel No. 480547 0005 C dated June 16, 1992, this property lies in Zones AE & X. Part of this property does appear to lie within a 100-year flood plain.
 - 2) BEARING SOURCE: RECORDED PLAT IN CAB. D, SLIDE 165, P.R.R.C.T.
 - 3) ALL 1/2" IRS ARE CAPPED WITH YELLOW PLASTIC CAPS "R.S.C.I. RPLS 5034."

00344239
FILED FOR RECORD
ROCKWALL CO., TEXAS
05 DEC 28 AM 7:48
PAULETTE BURKS
CO. CLERK
BY: _____ DEPUTY

OWNERS
MARLYN ROBERTS
323 Julian Drive
Rockwall, TX 75087
972 771-5342

Filed December 28,
2005 7:48A

F 329

FINAL PLAT
MEADOWCREEK BUSINESS CENTER
PHASE 1
AN ADDITION TO THE CITY OF ROCKWALL
JOSEPH CADLE SURVEY, A-207
ROCKWALL COUNTY, TEXAS

R.S.C.I. P2005-047
ROCKWALL SURVEYING CO., INC. LAND SURVEYING

SHEET 1 OF 2

SURVEY DATE NOV 14, 2005
SCALE 1" = 100' FILE # 20050546FP
CLIENT ROBERTS GF# NONE

1984 S. FM 551 ROYSE CITY, TX 75189 972-772-5434 PHONE 972-772-5443 FAX

OWNER'S CERTIFICATE
(Public Dedication)

STATE OF TEXAS
COUNTY OF ROCKWALL

WHEREAS MARLYN ROBERTS, BEING THE OWNER OF A TRACT OF land in the City of Rockwall, County of Rockwall, State of Texas, said tract being described as follows:

All that certain lot, tract or parcel of land situated in the JOSEPH CADLE SURVEY, ABSTRACT NO. 65, City of Rockwall, Rockwall County, Texas, and being a part of that 145.955 acres tract of land described as Tract 2 in a Correction Warranty deed from D.L. Johnson to The Cambridge Companies, Inc., dated December 31, 1975 and being recorded in Volume 119, Page 1019 of the Real Property Records of Rockwall County, Texas, and being more particularly described as follows:

BEGINNING at a point for corner in the North line of said 145.955 acres tract, at the intersection of the South right-of-way line of State Highway 276 and the center of Buffalo Creek;

THENCE in a Southwesterly direction along the meanders of Buffalo creek as follows:

S. 27 deg. 50 min. 47 sec. W. a distance of 32.49 feet;
S. 03 deg. 19 min. 13 sec. W. a distance of 91.46 feet;
S. 49 deg. 14 min. 00 sec. W. a distance of 93.19 feet;
S. 70 deg. 42 min. 21 sec. W. a distance of 89.63 feet;
S. 09 deg. 28 min. 47 sec. E. a distance of 86.28 feet;
S. 36 deg. 43 min. 27 sec. E. a distance of 41.15 feet;
S. 76 deg. 36 min. 24 sec. E. a distance of 36.22 feet;
S. 35 deg. 38 min. 54 sec. E. a distance of 42.07 feet;
S. 34 deg. 16 min. 18 sec. W. a distance of 57.70 feet;
S. 24 deg. 50 min. 49 sec. W. a distance of 47.56 feet;
S. 82 deg. 44 min. 41 sec. W. a distance of 21.81 feet;
S. 58 deg. 18 min. 31 sec. W. a distance of 36.48 feet;
S. 73 deg. 59 min. 46 sec. W. a distance of 52.11 feet;
S. 33 deg. 43 min. 22 sec. W. a distance of 102.36 feet;
S. 32 deg. 59 min. 23 sec. W. a distance of 65.82 feet;
S. 46 deg. 33 min. 18 sec. W. a distance of 58.54 feet;
S. 37 deg. 04 min. 04 sec. W. a distance of 85.87 feet;
S. 45 deg. 45 min. 48 sec. W. a distance of 135.30 feet;
S. 24 deg. 55 min. 40 sec. W. a distance of 72.73 feet;
S. 37 deg. 44 min. 20 sec. W. a distance of 72.20 feet;
S. 25 deg. 16 min. 47 sec. E. a distance of 84.53 feet;
S. 10 deg. 59 min. 48 sec. W. a distance of 73.10 feet;
S. 04 deg. 39 min. 35 sec. W. a distance of 63.47 feet;
S. 18 deg. 55 min. 44 sec. W. a distance of 91.62 feet;
S. 50 deg. 34 min. 42 sec. W. a distance of 78.99 feet to a point at the intersection of the meanders of Buffalo Creek with the Northeast right-of-way line of State Highway 205;

THENCE N. 31 deg. 03 min. 53 sec. W. along said right-of-way line, a distance of 439.08 feet to a concrete monument found for corner;

THENCE S. 63 deg. 18 min. 06 sec. W. along said right-of-way line, a distance of 22.93 feet to a concrete monument found for corner;

THENCE N. 31 deg. 13 min. 46 sec. W. along said right-of-way line, a distance of 370.91 feet to a 1/2" iron rod with yellow plastic cap stamped "R.S.C.I. RPLS 5034" set for corner;

THENCE N. 60 deg. 18 min. 55 sec. E. a distance of 1177.86 feet to the POINT OF BEGINNING and containing 439,795 square feet or 10.10 acres of land.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

STATE OF TEXAS
COUNTY OF ROCKWALL

I the undersigned owner of the land shown on this plat, and designated herein as MEADOWCREEK BUSINESS CENTER PHASE 1 an Addition to the City of Rockwall, Texas, and whose name is subscribed hereto, hereby dedicate to the use of the public forever all streets, alleys, parks, water courses, drains, easements and public places thereon shown on the purpose and consideration therein expressed. We further certify that all other parties who have a mortgage or lien interest in the subdivision have been notified and signed this plat.

I understand and do hereby reserve the easement strips shown on this plat for the purposes stated and for the mutual use and accommodation of all utilities desiring to use or using same.

I also understand the following:

- No buildings shall be constructed or placed upon, over, or across the utility easements as described herein.
- Any public utility shall have the right to remove and keep removed all or part of any buildings, fences, trees, shrubs, or other growths or improvements which in any way endanger or interfere with construction, maintenance or efficiency of their respective system on any of these easement strips; and any public utility shall at all times have the right of ingress or egress to, from and upon the said easement strips for purpose of construction, reconstruction, inspecting, patrolling, maint aining and either adding to or removing all or part of their respective system without the necessity of, at any time, procuring the permission of anyone.
- The City of Rockwall will not be responsible for any claims of any nature resulting from or occasioned by the establishment of grade of streets in the subdivision.
- The developer and subdivision engineer shall bear total responsibility for storm drain improvements.
- The developer shall be responsible for the necessary facilities to provide drainage patterns and drainage controls such that properties within the drainage area are not adversely affected by storm drainage from the development.
- No house dwelling unit, or other structure shall be constructed on any lot in this addition by the owner or any other person until the developer and/or owner has complied with all requirements of the Subdivision Regulations of the City of Rockwall regarding improvements with respect to the entire block on the street or streets on which property abuts, including the actual installation of streets with the required base and paving, curb and gutter, water and sewer, drainage structures, storm structures, storm sewers, and alleys, all according to the specifications of the City of Rockwall; or

Until an escrow deposit, sufficient to pay for the cost of such improvements, as determined by the city's engineer and/or city administrator, computed on a private commercial rate basis, has been made with the city secretary, accompanied by an agreement signed by the developer and/or owner, authorizing the city to make such improvements at prevailing private commercial rates, or have the same made by a contractor and pay for the same out of the escrow deposit, should the developer and/or owner fail or refuse to install the required improvements within the time stated in such written agreement, but in no case shall the City be obligated to make such improvements itself. Such deposit may be used by the owner and/or developer as progress payments as the work progresses in making such improvements by making certified requisitions to the city secretary, supported by evidence of work done; or

Until the developer and/or owner files a corporate surety bond with the city secretary in a sum equal to the cost of such improvements for the designated area, guaranteeing the installation thereof within the time stated in the bond, which time shall be fixed by the city council of the City of Rockwall.

I further acknowledge that the dedications and/or exaction's made herein are proportional to the impact of the subdivision upon the public services required in order that the development will comport with the present and future growth needs of the City; I, my successors and assigns hereby waive any claim, damage, or cause of action that I may have as a result of the dedication of exaction's made herein.

Marlyn R. Roberts
Marlyn Roberts

STATE OF TEXAS
COUNTY OF ROCKWALL

Before me, the undersigned authority, on this day personally appeared MARLYN ROBERTS known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purpose and consideration therein stated.

Given upon my hand and seal of office this 6th day of December, 2005.

Jenell Lee Strickland
Notary Public in and for the State of Texas

2-16-08
My Commission Expires:



NOTE: It shall be the policy of the City of Rockwall to withhold issuing building permits until all streets, water, sewer and storm drainage systems have been accepted by the City. The approval of a plat by the City does not constitute any representation, assurance or guarantee that any building with such plat shall be approved, authorized or permit therefore issued, nor shall such approval constitute any representation, assurance or guarantee by the City of the adequacy and availability for water for personal use and fire protection within such plat, as required under Ordinance 83-54.

SURVEYOR'S CERTIFICATE

NOW, THEREFORE KNOW ALL MEN BY THESE PRESENTS:

THAT I, Harold D. Fetty, III, R.P.L.S. No. 5034, do hereby certify that I prepared this plat from an actual and accurate survey of the land, and that the corner monuments shown thereon were properly placed under my personal supervision.

Harold D. Fetty, III
Registered Professional Land Surveyor No. 5034



RECOMMENDED FOR FINAL APPROVAL

CW Bricker 12-27-05
Planning and Zoning Commission Date

APPROVED

I hereby certify that the above and foregoing plat of MEADOWCREEK BUSINESS CENTER, PHASE 1, an addition to the City of Rockwall, Texas, was approved by the City Council of the City of Rockwall on the 27th day of December, 2005.

This approval shall be invalid unless the approved plat for such addition is recorded in the office of the County Clerk of Rockwall, County, Texas, within one hundred eighty (180) days from said date of final approval.

Said addition shall be subject to all the requirements of the Subdivision Regulations of the City of Rockwall.

WITNESS OUR HANDS, this 27 day of December, 2005.

William R. Cecil *Norothy Brooks*
City Secretary City of Rockwall

Chuck Smith 12-23-05
City Engineer



F 330

FINAL PLAT
MEADOWCREEK BUSINESS CENTER
PHASE 1
AN ADDITION TO THE CITY OF ROCKWALL
JOSEPH CADLE SURVEY, A-207
ROCKWALL COUNTY, TEXAS

OWNERS
MARLYN ROBERTS
323 Julian Drive
Rockwall, TX 75087
972 771-5342

R.S.C.I.
ROCKWALL SURVEYING CO., INC.

P2005-047

SHEET 2 OF 2

SURVEY DATE NOV 14, 2005
SCALE 1" = 100' FILE# 20050546FP1
CLIENT ROBERTS OF# NONE

Drawing: R:\16-122-001 - Valentine Road - Rockwall\City\16-122-001 COVER AND GENERAL NOTES.dwg
Scale: 1"=12'-0"
Date: 8/7/2016 3:25:07 PM
Sheet: 31 of 31

GENERAL NOTES:

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND THE CITY OF ROCKWALL STANDARDS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS 4th EDITION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFFSITE OF ANY EXISTING PAVING AND STRUCTURES REMOVED, AS WELL AS ANY NECESSARY ABATEMENT.
- BEFORE STARTING CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WHERE PROPOSED UTILITIES ARE BEING CONNECTED. THE LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS WAS TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES MUST BE DETERMINED BY CONTRACTOR. IT SHALL BE THE DUTY AND RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A DISCREPANCY AND/OR CONFLICT IS DISCOVERED. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES DURING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE CONSTRUCTION RECORD PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING.
- WATER AND SEWER SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ROCKWALL'S STANDARDS AND SPECIFICATIONS. WATER AND SEWER MAIN LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ROCKWALL'S WATER UTILITIES STANDARDS AND SPECIFICATIONS.
- ALL EXISTING TRAFFIC AND STREET SIGNS DISTURBED SHALL BE REINSTALLED WHERE APPLICABLE BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING STRUCTURES, UTILITIES, AND SERVICES PRIOR TO EXCAVATION AND CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANIES FOR THE RELOCATION OF ANY EXISTING UTILITIES.
- CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS SHOWN ON THE PLANS AND REVIEW ALL FIELD CONDITIONS, INCLUDING EXISTING GRADES AND UTILITY FLOW LINES, AND SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO HIS CONSTRUCTION ACTIVITIES AT NO COST TO THE OWNER AND SHALL ADJUST ALL UTILITIES TO PROPOSED GRADE.
- ALL EXISTING SHRUBS, TREES, PLANTING, AND OTHER VEGETATION, OUTSIDE OF PROPERTY LIMITS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL CONSTRUCT SILT SCREENS OR OTHER APPROVED DEVICES PRIOR TO CONSTRUCTION TO PREVENT ADVERSE OFF SITE IMPACT OF STORM WATER QUALITY, AS REQUIRED BY THE CITY OF ROCKWALL. CONTRACTOR IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE REQUIRED EROSION CONTROL DEVICES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. THE EROSION CONTROL DEVICES SHOULD REMAIN IN PLACE, WHERE PRACTICAL, UPON COMPLETION OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS OFFSITE FROM THE EXISTING ROADWAYS AND PROXIMATE ADJACENT SITES THAT ARE A RESULT OF THE PROPOSED CONSTRUCTION AS REQUESTED BY THE CITY OF ROCKWALL. AS A MINIMUM, THIS TASK SHOULD OCCUR ONCE A WEEK.
- CONNECTIONS TO EXISTING FACILITIES SHALL BE ACCOMPLISHED IN A NEAT AND PROFESSIONAL MANNER. WHEN FIELD CONDITIONS INDICATE ANY VARIANCE FROM DETAILED METHODS, THE CONTRACTOR SHALL PROVIDE COMPREHENSIVE AND DETAILED DRAWINGS (FOR APPROVAL) OF METHODS PROPOSED.
- WATER SHALL NOT BE PERMITTED IN OPEN TRENCHES DURING CONSTRUCTION.
- CONTRACTOR SHALL CONTACT THE CITY ENGINEERING DEPARTMENT'S INSPECTOR AND THE ROCKWALL'S WATER UTILITIES INSPECTOR ASSIGNED TO THIS PROJECT AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR STABILIZING DISTURBED AREAS FROM BACK OF CURB TO THE RIGHT-OF-WAY AND AREAS OTHERWISE SPECIFIED ON THE PLANS.
- CONTRACTOR IS TO CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL PRIMARY POINTS OF ACCESS. THIS STABILIZED EXIT SHALL BE CONSTRUCTED PER CITY DETAILS ACCORDING TO THE STORM WATER POLLUTION PREVENTION PLAN.
- ANY WATER OR SANITARY SEWER SERVICE LOCATED OUTSIDE OF A STREET, ALLEY, OR EASEMENT SHALL BE INSTALLED BY A PLUMBER AND BE INSPECTED BY CODE ENFORCEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A TRENCH SAFETY PLAN TO THE CITY OF ROCKWALL'S ENGINEERING DEPARTMENT AT THE TIME OF THE PRECONSTRUCTION MEETING, OR PRIOR TO BEGINNING CONSTRUCTION OF THESE IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH. NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT WITHOUT THE PRIOR SPECIFIC WRITTEN APPROVAL OF THE CITY OF ROCKWALL'S ENGINEERING DEPARTMENT. ONSITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DURING CONSTRUCTION, ALL MATERIAL TESTING SHALL BE COORDINATED WITH THE CITY OF ROCKWALL'S CONSTRUCTION INSPECTOR.
- CONTRACTOR SHALL CONTACT THE CITY BUILDING OFFICIAL TO LEARN OF ANY UNUSUAL CONSTRUCTION SEQUENCING REQUIREMENTS THE CITY MAY REQUIRE.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH CITY SPECIFICATIONS FOR PAVING CONSTRUCTION, COMPACTION REQUIREMENTS, AND SUBGRADE PREPARATION.
- CONTRACTOR TO REVIEW DESIGN INTENT OF THESE PLANS AND SUBMIT REQUESTS-FOR-INFORMATION IN A TIMELY MANNER PRIOR TO COMMENCING THAT WORK.
- CONTRACTOR SHALL COORDINATE WITH FRANCHISE UTILITY COMPANIES FOR SLEEVING REQUIREMENTS PRIOR TO ANY PAVING ACTIVITIES.
- ALL APPURTENANCES INSTALLED IN PAVEMENT AREAS SHALL BE ADJUSTED AS REQUIRED TO BE FLUSH WITH FINISHED PAVEMENT.
- THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR COMPLETING AND IMPLEMENTING TRAFFIC CONTROL PLAN.

GRADING

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND THE CITY OF ROCKWALL DESIGN STANDARDS FOR CONSTRUCTION.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- BARRICADING, TRAFFIC CONTROL, AND PROJECT SIGNS SHALL CONFORM TO THE CITY OF ROCKWALL DESIGN STANDARDS FOR CONSTRUCTION.
- THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. MINOR ADJUSTMENTS TO FINISH GRADE TO ACCOMPLISH SLOPE DRAINAGE ARE ACCEPTABLE. IF NECESSARY, UPON PRIOR APPROVAL OF ENGINEER, PAVING INSTALLED SHALL "FLUSH OUT" AT ANY JUNCTURE WITH EXISTING PAVING.
- THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN IN THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND RIM ELEVATIONS PRIOR TO CONSTRUCTION COMMENCEMENT.
- ALL PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE FOUND.
- REFER TO PAVING PLANS AND PLAT FOR HORIZONTAL DIMENSIONS.
- UNLESS NOTED OTHERWISE, ALL GRADES NOTES ARE TO TOP OF SURFACE. REFER TO PAVING PLANS FOR CURBING PROFILES AND BACK-OF-CURB ELEVATIONS.
- REFER TO EROSION CONTROL PLAN FOR EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING GRADING OPERATIONS.
- ALL SURFACE ORGANIC SOIL AND VEGETATION SHOULD BE REMOVED AND DISPOSED OF OFF THE CONSTRUCTION SITE. ALL VEGETATION SHALL BE CLEARED AND GRUBBED FOR ALL AREAS TO BE DISTURBED.
- AREAS WHERE FILL IS TO BE PLACED SHALL CONFORM TO THE RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER.
- PRIOR TO THE PLACEMENT OF FILL MATERIAL, THE EXPOSED SUBGRADE SHOULD BE SCARIFIED TO THE DEPTHS OF 6-INCHES AND THEN RE-COMPACTED PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- ALL FILL MATERIAL TO BE PLACED AT THE SITE SHOULD BE PLACED AT 8-INCHES LOOSE LIFTS. EACH LIFT SHOULD BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DENSITY PER ASTM 698. THE MOISTURE CONTENT SHOULD BE AT OR ABOVE OPTIMUM. SILTY SANDS AND SANDS SHOULD BE COMPACTED TO A MINIMUM OF 95% OF THE RELATIVE DENSITY AS DETERMINED BY ASTM D-4254.
- MATERIAL USED AS ENGINEERED FILL SHOULD BE PER SOILS REPORT.
- MOISTURE CONTENT OF THE FILL MATERIAL SHOULD BE ACCORDING TO GEOTECHNICAL REPORT.
- ALL FILL TO BE COMPACTED USING A SHEEP'S FOOT ROLLER.

STORM DRAINAGE

- ALL CONSTRUCTION SHALL BE IN GENERAL ACCORDANCE WITH THESE PLANS, CITY OF ROCKWALL DESIGN STANDARDS FOR CONSTRUCTION AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS.
- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION REQUIREMENTS. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND SUBMIT A NOTICE OF INTENT (N.O.I.) ACCORDING TO THE STORM WATER POLLUTION PREVENTION PLAN.
- THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE TRENCH SAFETY DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A TRENCH EXCAVATION PROTECTION PLAN, SEALED BY AN ENGINEER REGISTERED IN THE STATE OF TEXAS, FOR ALL TRENCHES DEEPER THAN FIVE (5) FEET.
- THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
- THE INSPECTOR SHALL INSPECT ALL "PUBLIC" CONSTRUCTION. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND ANY SPECIAL PROVISION AS APPROVED BY THE CITY OF ROCKWALL.
- THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FOR ALL STORM SEWER LINES AND OTHER UTILITIES.
- EMBEDMENT FOR ALL ONSITE SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY OF ROCKWALL DESIGN STANDARDS AND SPECIFICATIONS.
- SIDES AND BOTTOM OF THE DETENTION SYSTEM TO HAVE ANCHORED SEEDED CURLEX INSTALLED PRIOR TO ACCEPTANCE.
- PROPERTY OWNER IS RESPONSIBLE FOR MAINTENANCE, REPAIR, AND REPLACEMENT ON ALL DETENTION SYSTEMS.

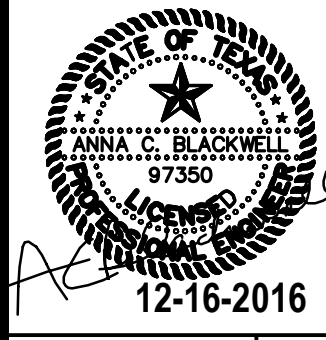
EROSION CONTROL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL USE SEDIMENT FILTERS OR OTHER MEASURES APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM CLOGGING STORM SEWER PIPES OR PROPOSED OR EXISTING INLETS, OR FROM BEING TRANSPORTED TO ADJACENT PROPERTIES AND STREET RIGHT-OF-WAYS. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE AND SHALL REMAIN IN PLACE UNTIL FINAL GRADING AND PAVING IS COMPLETE AND PERMANENT SOIL STABILIZATION IS ACHIEVED.
- CONSTRUCTION OPERATIONS SHALL BE MANAGED SO THAT AS MUCH OF THE SITE AS POSSIBLE IS LEFT COVERED WITH EXISTING TOPSOIL AND VEGETATION.
- CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION TRAFFIC UTILIZES THE STABILIZED ENTRANCE AT ALL TIMES FOR INGRESS/EGRESS TO THE SITE.
- CONSTRUCTION ENTRANCE:
 - MINIMUM SIZE STONE: 5-INCHES DIAMETER (NO CRUSHED CONCRETE ALLOWED)
 - THICKNESS: NOT LESS THAN 12-INCHES
 - LENGTH: AS SHOWN ON PLAN
 - WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS AND EGRESS.
 - MAINTENANCE REQUIREMENTS: AS NECESSARY TO PREVENT TRACKING OR FLOWING MUD INTO PUBLIC RIGHT-OF-WAY OR PARKING AREAS.
- SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON A PUBLIC ROADWAY SHALL BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO A PUBLIC ROADWAY, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE REQUIRED EROSION CONTROL DEVICES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. EROSION CONTROLS SHALL BE REPAIRED OR REPLACED AS INSPECTION DEEMS NECESSARY. OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ACCUMULATED SILT IN ANY EROSION CONTROL DEVICE SHALL BE REMOVED AND SHALL BE DISTRIBUTED ON SITE IN A MANNER NOT CONTRIBUTING TO ADDITIONAL SILTATION. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH IS DISTURBED.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE FILTER BARRIER (OR OTHER METHOD APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT ADVERSE OFF SITE IMPACTS OR STORM WATER QUALITY FROM SILT AND CONSTRUCTION DEBRIS FLOWING ONTO ADJACENT PROPERTIES AS REQUIRED BY THE CITY.
- BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF CONSTRUCTION AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROTECT AND PRESERVE CONTROL POINTS AT ALL TIMES DURING THE COURSE OF THE PROJECT. THE GRADING CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- CONTRACTOR STAGING AREA TO BE AGREED UPON BY OWNER PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY THE T.C.E.Q. OR THE GOVERNING CITY.

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

RECORD DRAWING
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DATE: AUGUST 8, 2018

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301 Commerce Street, Ste 1410 - Fort Worth, Texas 76102
Phone: 817-896-0976 - Firm Registration #F1-15893

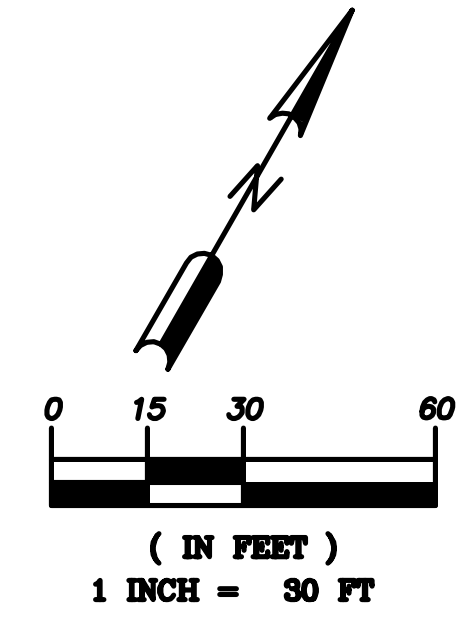
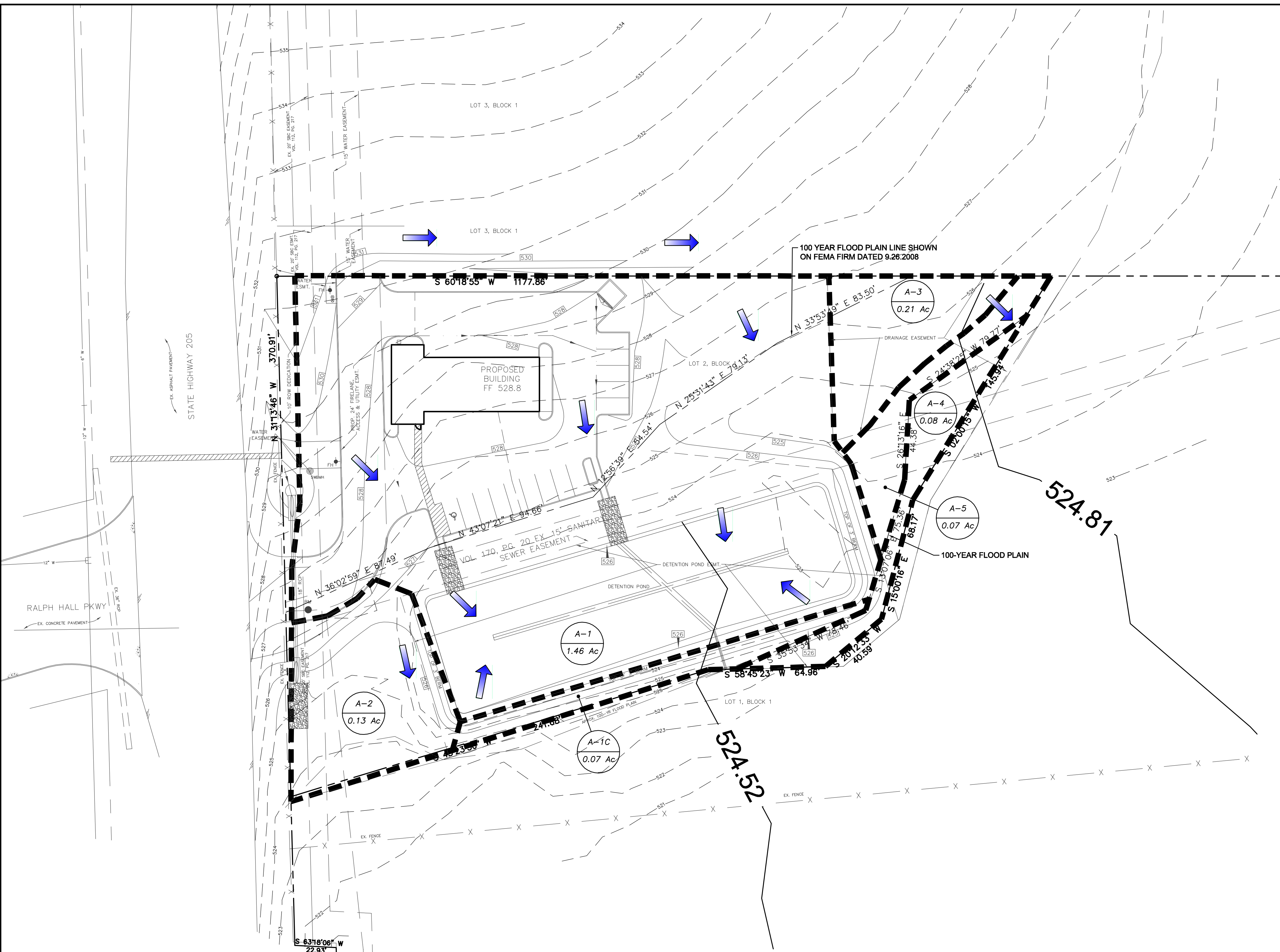


VALVOLINE EXPRESS CARE
2325 SOUTH GOLIAD STREET
CITY OF ROCKWALL, TEXAS
GENERAL NOTES

Issue Dates:	
-	
Date	
Revisions	
Scale:	AS SHOWN
Drawn By:	LJM
Checked By:	ACB
Sheet	C1.00

Printed by: James Ford Date: 8/7/2018 2:45 PM

Drawing: 15-16-122-001 - Valvoline Road - Rockwall (15-16-122-001) EX DML.dwg Saved By: James Save Time 8/7/2018 2:04:45 PM



LEGEND

- A-X
X XX Ac DRAINAGE AREA LABELS
- ➔ DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- 525 EXISTING CONTOURS
- 525 FLOODPLAIN CROSS SECTION

NOTE

1. THE EXISTING POND WILL BE REMOVED AT A LATER DATE. THE NEW DETENTION POND IS DESIGNED TO HANDLE THE DETENTION FOR THE ENTIRE SITE.

RECORD DRAWING

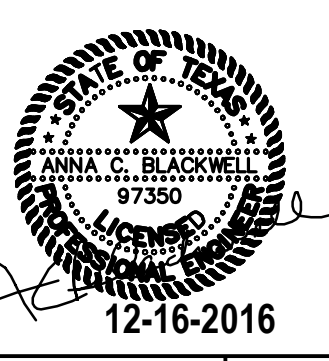
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DATE: AUGUST 8, 2018

Existing Drainage Area Calculations- (in accordance with City of Rockwall Design Drainage Manual)

Drainage Area	Area (Ac)	Runoff Coefficient C	Minimum Inlet Time (min)	10-Year Intensity (in/hr)	10-Year Flow (cfs)	25-Year Intensity (in/hr)	25-Year Flow (cfs)	50-Year Intensity (in/hr)	50-Year Flow (cfs)	100-Year Intensity (in/hr)	100-Year Flow (cfs)	Description	
A-1	1.46	0.35	20.00	5.80	2.96	6.60	3.37	7.50	3.83	8.30	4.24	Surface drains to existing pond	
A-1C	0.07	0.35	20.00	5.80	0.14	6.60	0.16	7.50	0.18	8.30	0.20	Surface drains off-site	
A-2	0.13	0.35	20.00	5.80	0.26	6.60	0.30	7.50	0.34	8.30	0.38	Surface drains off-site	
A-3	0.21	0.35	20.00	5.80	0.43	6.60	0.49	7.50	0.55	8.30	0.61	Surface drains off-site	
A-4	0.08	0.35	20.00	5.80	0.16	6.60	0.18	7.50	0.21	8.30	0.23	Surface drains off-site	
A-5	0.07	0.35	20.00	5.80	0.14	6.60	0.16	7.50	0.18	8.30	0.20	Surface drains off-site	
Total	2.02					4.10		4.67		5.30		5.87	

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VALVOLINE EXPRESS CARE
 2325 SOUTH GOLIAD STREET
 CITY OF ROCKWALL, TEXAS

EXISTING DRAINAGE AREA MAP

Issue Dates:

Date	Revisions

Scale: AS SHOWN

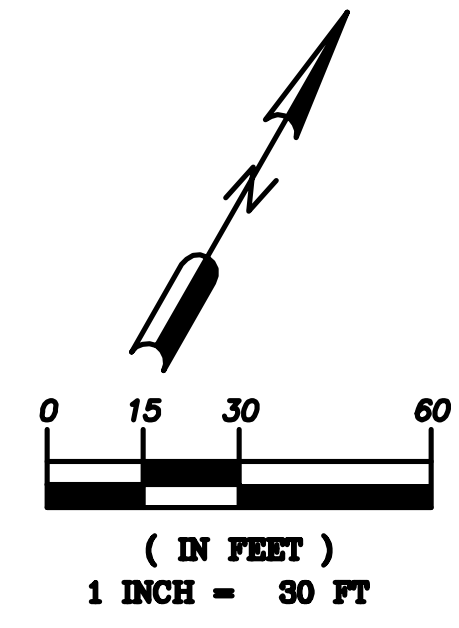
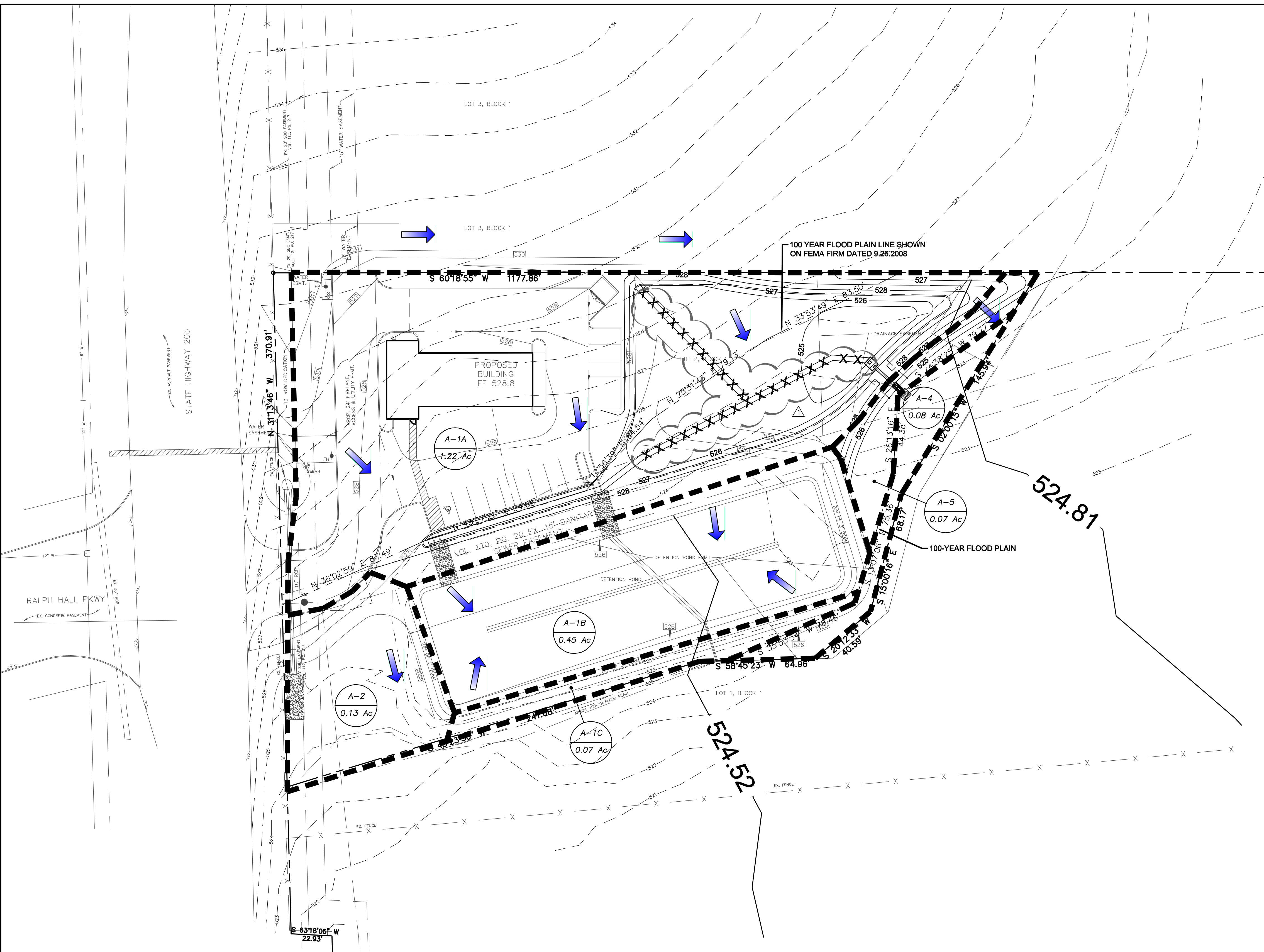
Drawn By: LJM

Checked By: ACB

Sheet C2.00

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LEGEND

- A-X
X XX Ac DRAINAGE AREA LABELS
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- 525 EXISTING CONTOURS
- 525 PROPOSED CONTOURS
- 525 FLOODPLAIN CROSS SECTION

NOTE

1. THE EXISTING POND WILL BE REMOVED AT A LATER DATE. THE NEW DETENTION POND IS DESIGNED TO HANDLE THE DETENTION FOR THE ENTIRE SITE.

RECORD DRAWING

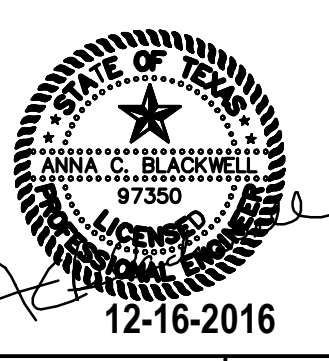
THIS RECORD DRAWING HAS BEEN REVISED TO CONFORM TO THE CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR. ALIGNMENT AND GRADES SHOWN ON THIS DRAWING WERE NOT FIELD VERIFIED BY THE ENGINEER.

DATE: AUGUST 8, 2018

Proposed Drainage Area Calculations- (in accordance with City of Rockwall Design Drainage Manual)

Drainage Area	Area (Ac)	Runoff Coefficient C	Minimum Inlet Time (min)	10-Year Intensity (in/hr)	10-Year Flow (cfs)	25-Year Intensity (in/hr)	25-Year Flow (cfs)	50-Year Intensity (in/hr)	50-Year Flow (cfs)	100-Year Intensity (in/hr)	100-Year Flow (cfs)	Description	
A-1A	1.22	0.90	10.00	7.20	7.91	8.20	9.00	9.00	9.88	9.80	10.76	Surface drains to existing flume then proposed pond	
A-1B	0.45	0.90	10.00	7.20	2.92	8.20	3.32	9.00	3.65	9.80	3.97	Existing pond drains off-site	
A-1C	0.07	0.90	10.00	7.20	0.45	8.20	0.52	9.00	0.57	9.80	0.62	Surface drains off-site	
A-2	0.13	0.90	10.00	7.20	0.84	8.20	0.96	9.00	1.05	9.80	1.15	Surface drains off-site	
A-4	0.08	0.35	20.00	5.80	0.16	6.60	0.18	7.50	0.21	8.30	0.23	Surface drains off-site	
A-5	0.07	0.90	10.00	7.20	0.45	8.20	0.52	9.00	0.57	9.80	0.62	Surface drains off-site	
Total	2.02					12.73		14.50		15.92		17.34	

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VALVOLINE EXPRESS CARE
 2325 SOUTH GOLIAD STREET
 CITY OF ROCKWALL, TEXAS

PROPOSED DRAINAGE AREA MAP

Issue Dates:

Date	Revisions
August 9, 2018	

Scale: AS SHOWN

Drawn By: LJM

Checked By: ACB

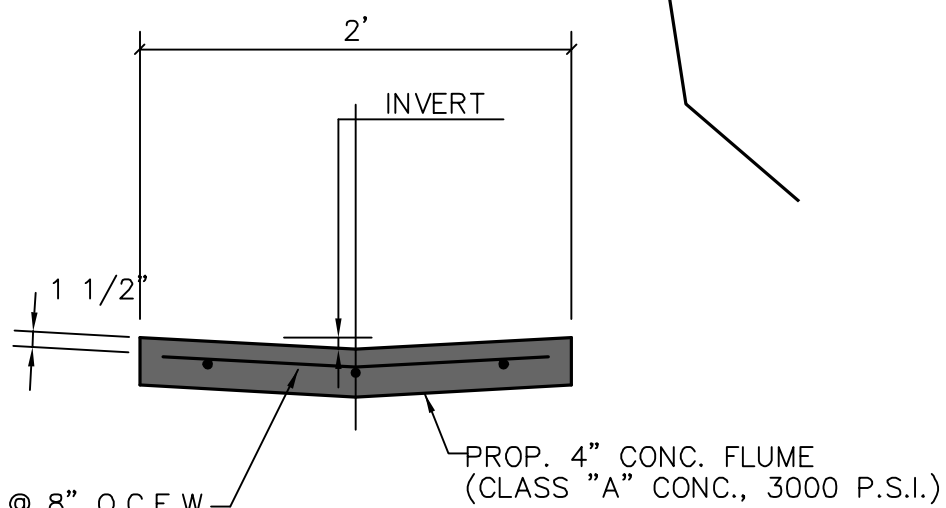
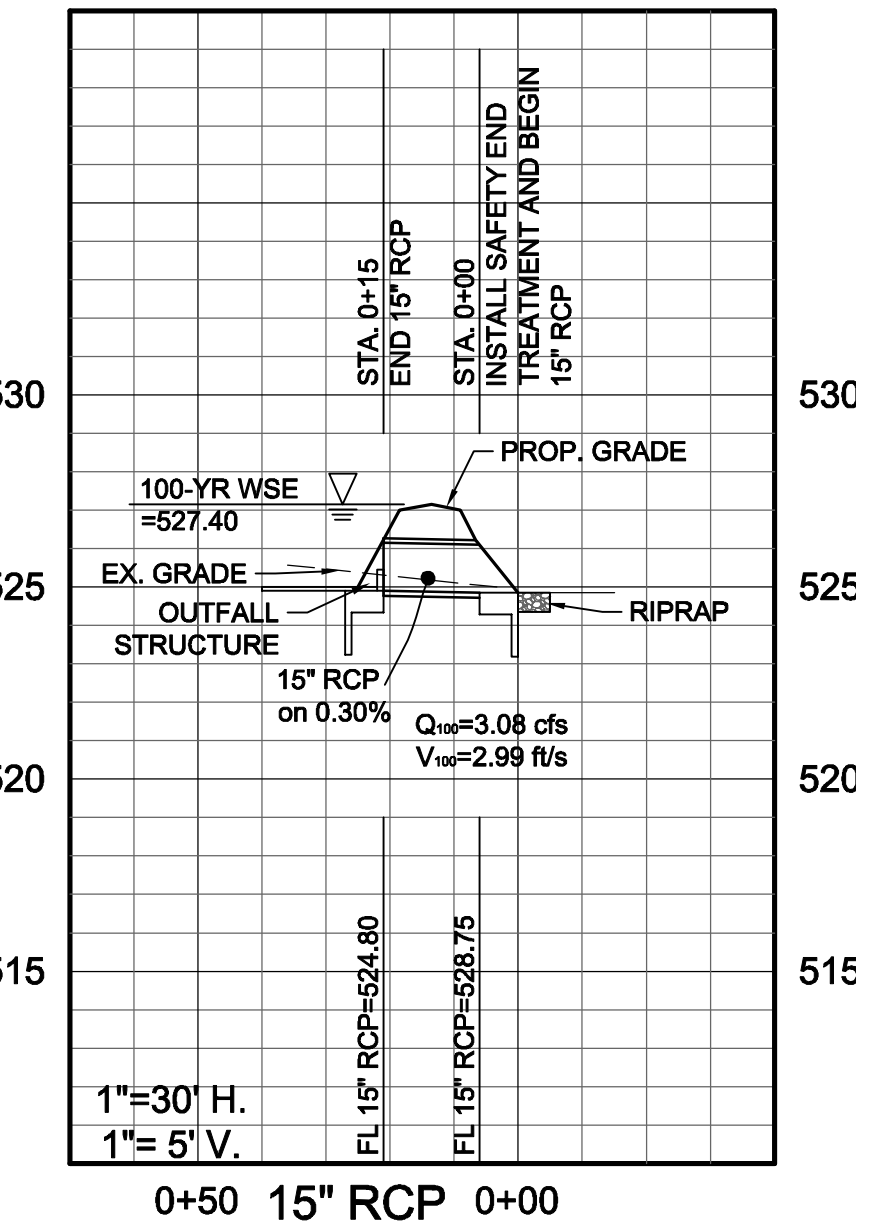
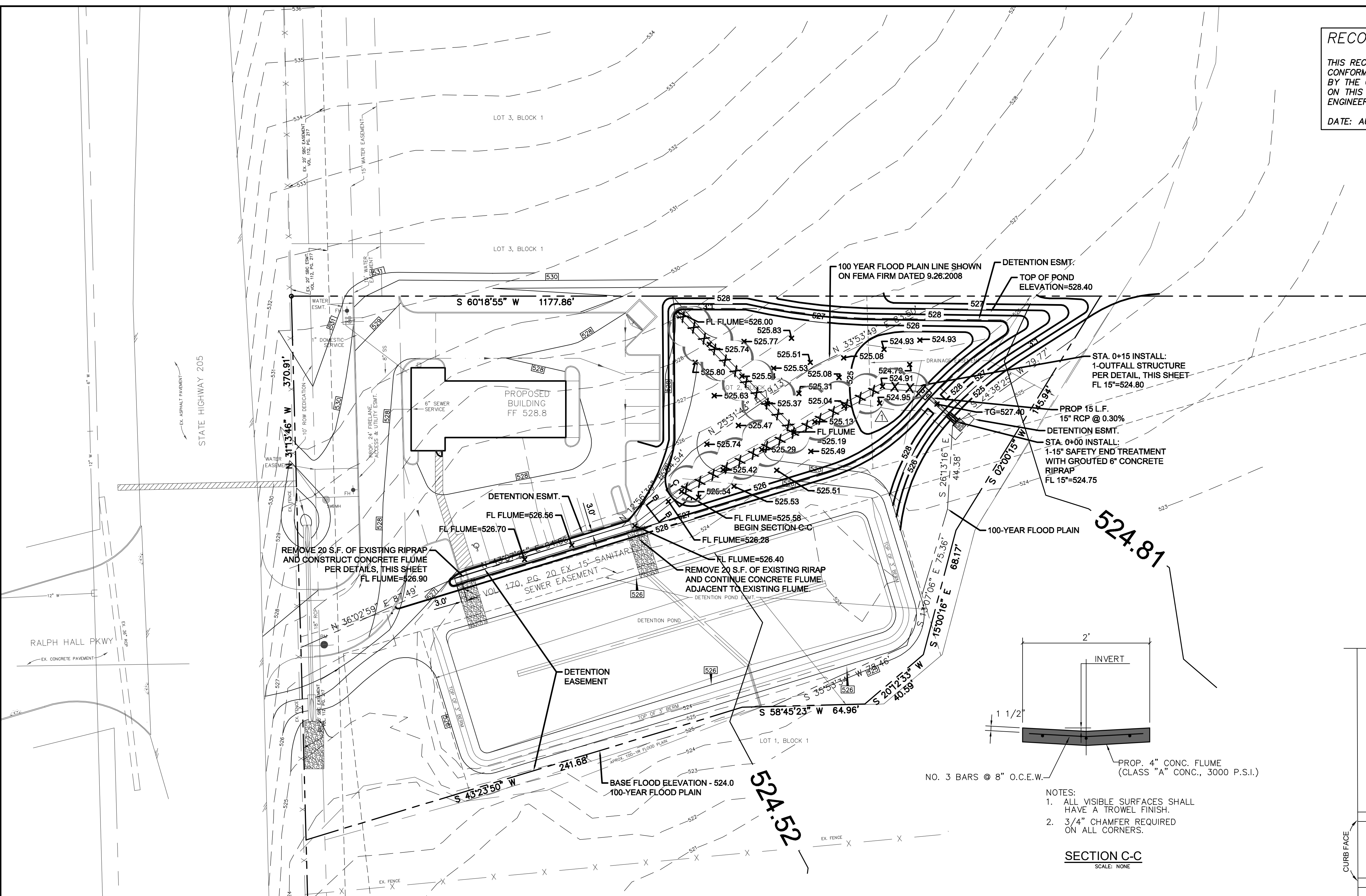
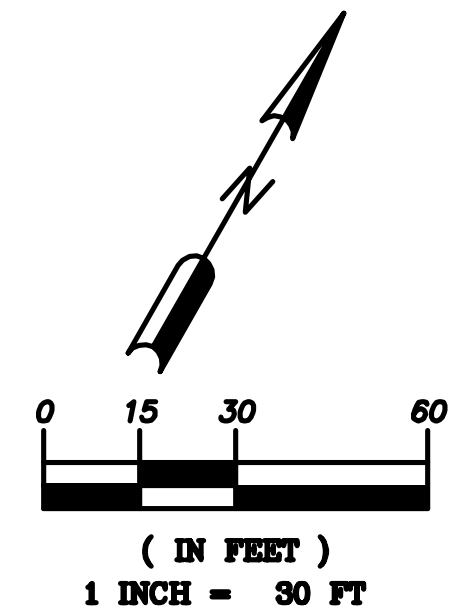
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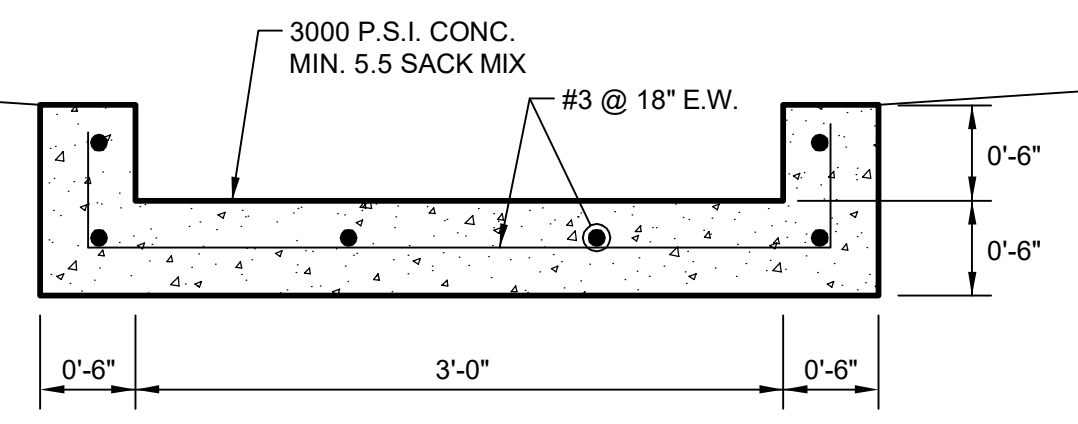
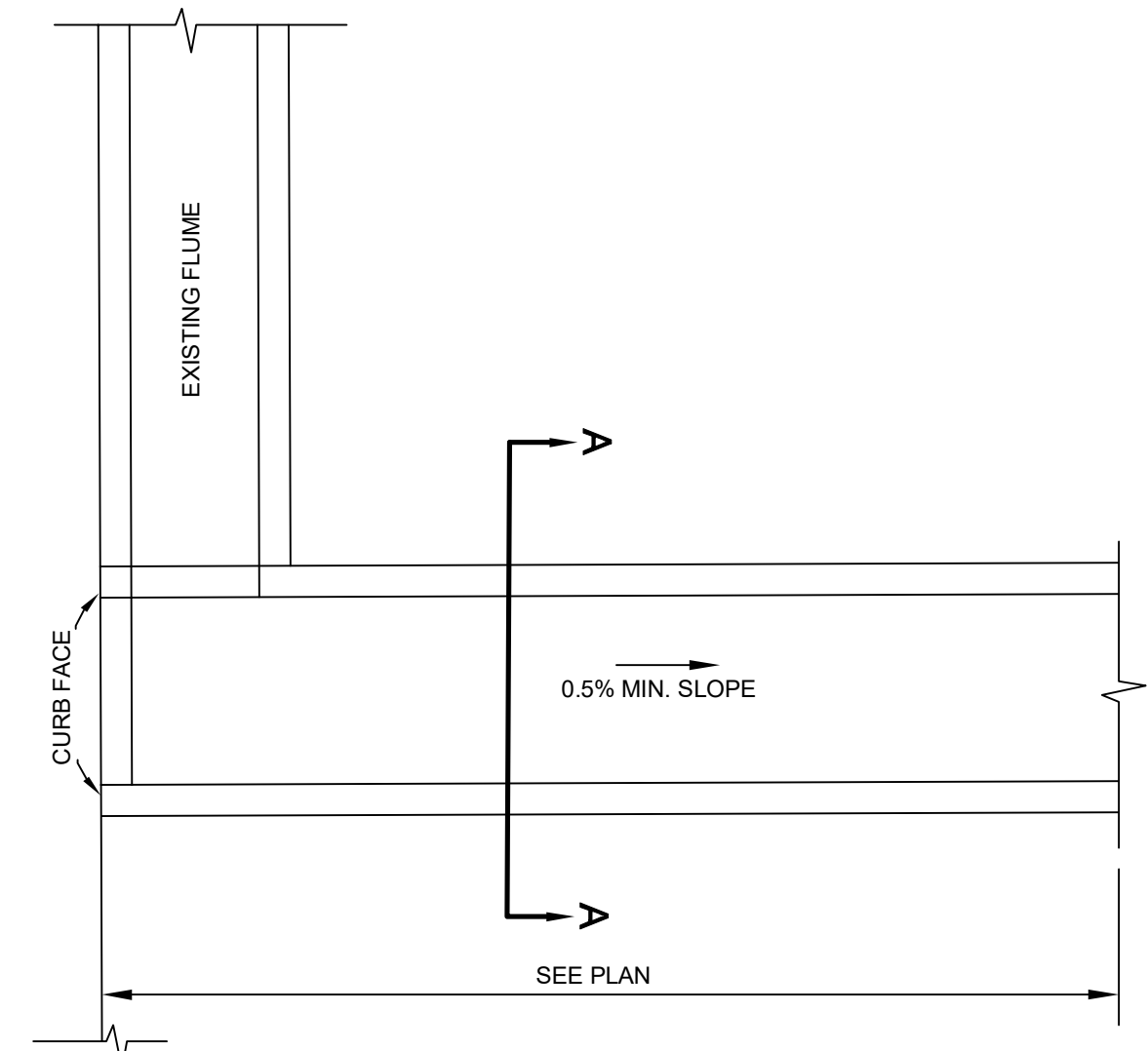
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RECORD DRAWING
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 DATE: AUGUST 8, 2018



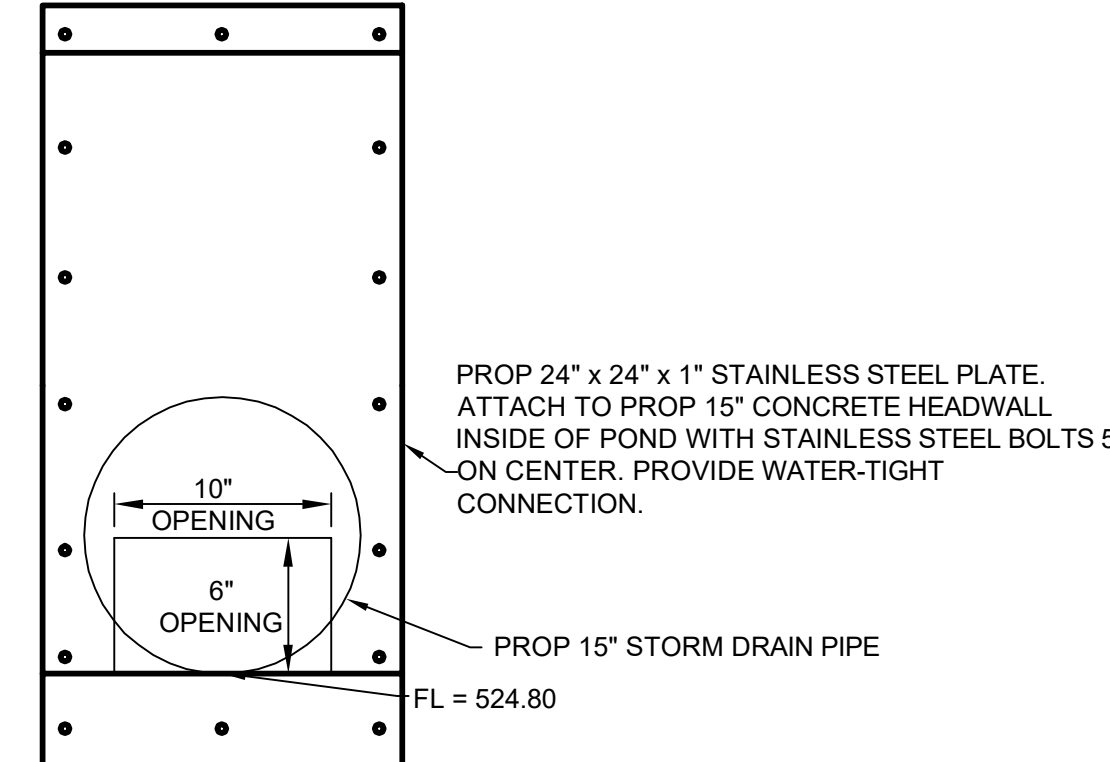
- NOTES:
 1. ALL VISIBLE SURFACES SHALL HAVE A TROWEL FINISH.
 2. 3/4" CHAMFER REQUIRED ON ALL CORNERS.

SECTION C-C
SCALE: NONE



SECTION A-A
SCALE: NONE

DRAINAGE FLUME
N.T.S.



DETENTION POND OUTFALL STRUCTURE
N.T.S.

Elevation (ft)	Area (sf)	Volume (cf)	Cumulative Volume* (cf)	Discharge Rate** (cfs)
524.80	-	-	-	-
525.00	2,098	74	116	-
526.00	11,394	3,772	3,888	-
526.86	12,852	10,408	14,296	2.20 ← 10-yr
527.00	13,874	1,853	16,149	-
527.12	15,420	1,771	17,920	2.49 ← 25-yr
527.18	15,567	930	18,850	2.93 ← 50-yr
527.40	16,224	3,604	22,454	3.08 ← 100-yr

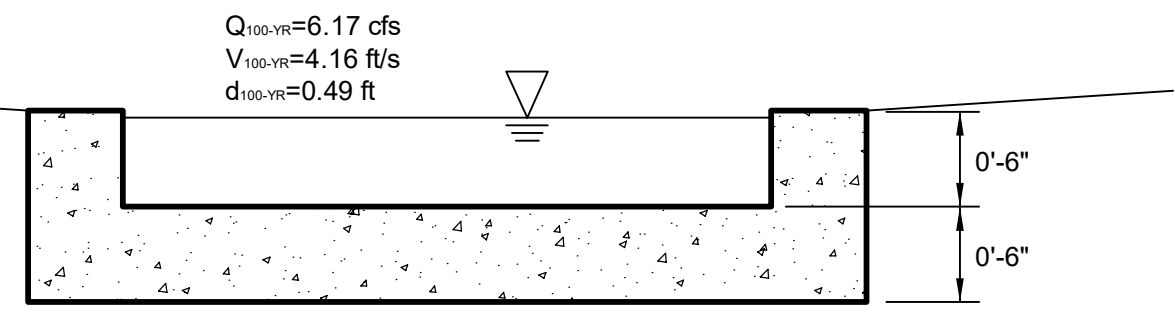
**Q (allowable release) = Q (ex site) - Q (A-2) - Q (A-1C) - Q (A-5)
 Q (allowable release) =

	10-yr	25-yr	50-yr	100-yr
Q (allowable release)	2.22	2.50	2.93	3.27

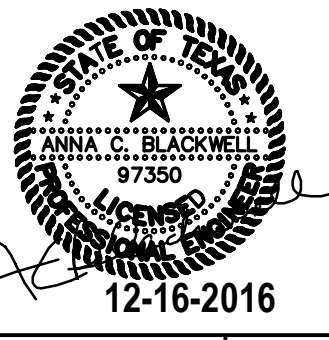
Note: The area of the existing pond will need to drain to the pond once it is developed and the pond is abandoned.

Outlet Calculations

Design	C	Area (sf)	h (ft)	Q (cfs)
10-Yr	0.6	0.42	1.81	2.20
25-Yr	0.6	0.42	2.07	2.49
50-Yr	0.6	0.42	2.13	2.93
100-Yr	0.6	0.42	2.35	3.08



SECTION B-B
SCALE: NONE



Issue Dates:

Date	Revisions
August 9, 2018	

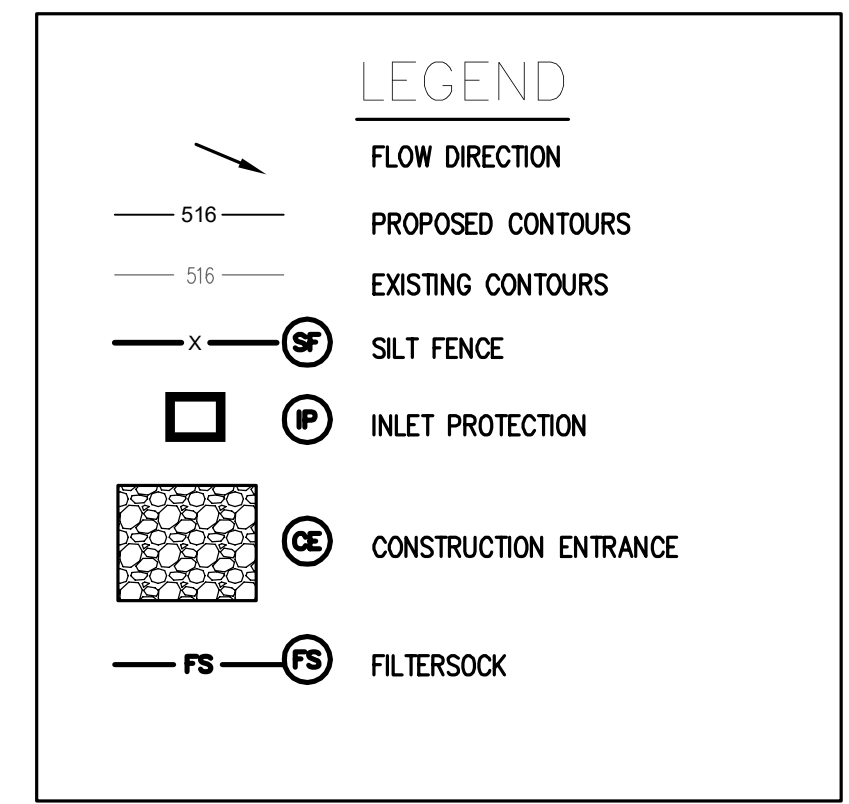
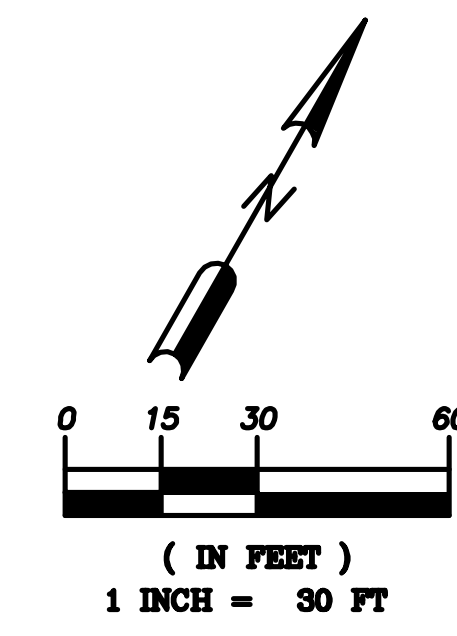
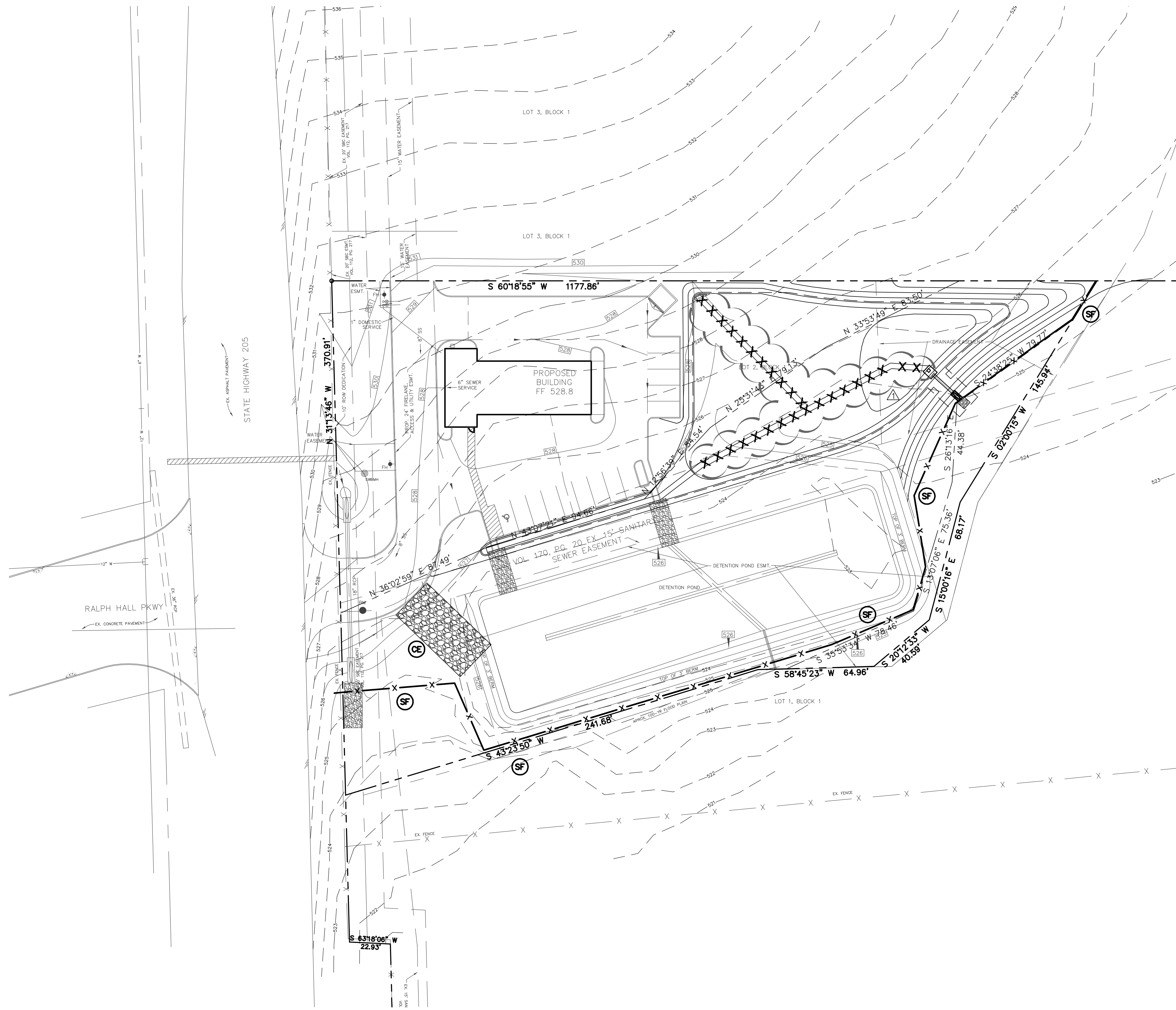
Scale: AS SHOWN

Drawn By: LJM

Checked By: ACB

Plotted by: James Ford, Date: 9/9/2018 3:12 PM

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EROSION CONTROL NOTES:

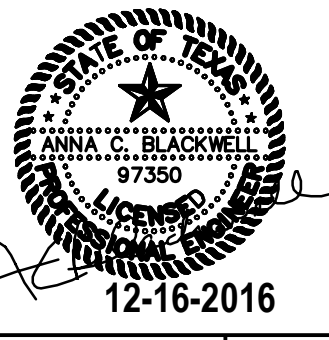
1. EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS, IN CHANNELS, DRAINAGEWAYS OR BORROW DITCHES AT RISK OF CONTRACTOR. THE CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREGGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.
2. SIDES AND BOTTOM OF POND SHALL BE SEEDED ON ANCHORED CURLEX PRIOR TO ACCEPTANCE.

RECORD DRAWING

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DATE: AUGUST 8, 2018

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 301 Commerce Street, Ste 1410 - Fort Worth, Texas 76102
 Phone: 817-896-0976 - Firm Registration #F-15893



VALVOLINE EXPRESS CARE
 2325 SOUTH GOLIAD STREET
 CITY OF ROCKWALL, TEXAS

EROSION CONTROL PLAN

Issue Dates:

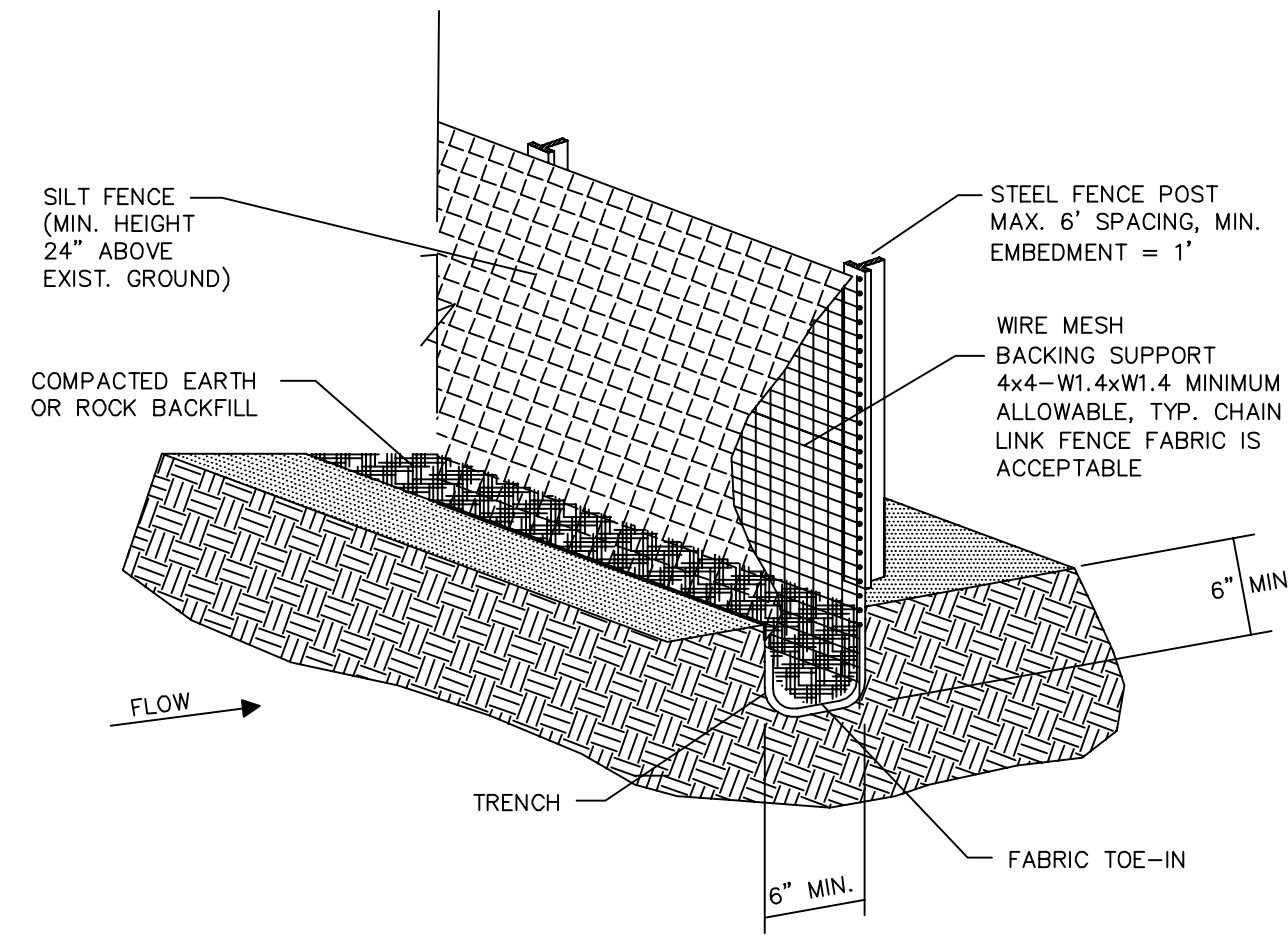
Revisions	Date
August 9, 2018	

Scale: AS SHOWN
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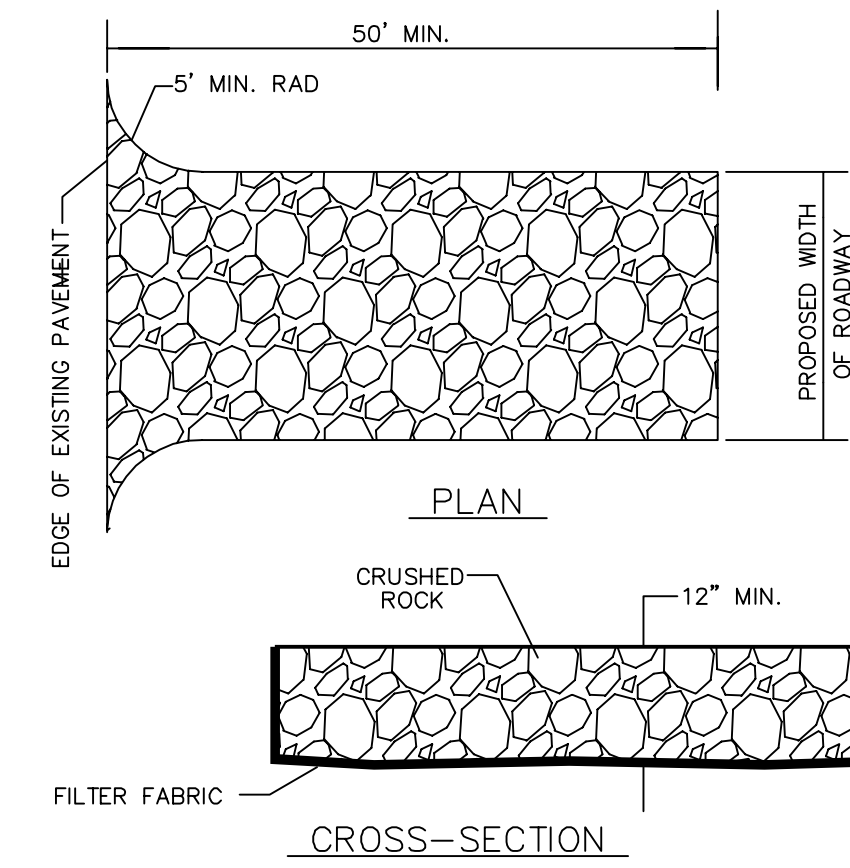
STANDARD EROSION CONTROL GENERAL NOTES

1. EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON THE PROJECT.
2. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY OF ROCKWALL.
3. IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE.
4. IF OFF-SITE BORROW OR SPOILS SITES ARE USED IN CONJUNCTION WITH THIS PROJECT, THIS INFORMATION SHALL BE DISCLOSED AND SHOWN ON THE EROSION CONTROL PLAN. OFF-SITE BORROW AND SPOILS AREAS ARE CONSIDERED PART OF EROSION CONTROL REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.
5. INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO INSURE THAT THE DEVICES ARE FUNCTIONING PROPERLY. WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN STONES OR MUD IS BEING TRACKED ONTO A PUBLIC ROADWAY THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL OFF SITE SEDIMENTATION. PERIODIC RE-GRADING OR THE ADDITION OF NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFICIENCY OF THE INSTALLATION.
6. CONTRACTOR SHALL HAVE A COPY THE SWPPP ON SITE AT ALL TIMES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTAL OF N.O.I., N.O.T. AND ANY ADDITIONAL INFORMATION REQUIRED BY THE E.P.A. CONTRACTOR SHALL COMPLY WITH ALL E.P.A. STORM WATER POLLUTION PREVENTION REQUIREMENTS.



SILT FENCE GENERAL NOTES

1. 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 ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL 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), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. 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.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY WEEK AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE - 5 INCHES (MIN) CRUSHED ROCK, (NO CRUSHED CONCRETE ALLOWED).
2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN 12 INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING - WHEN NECESSARY, 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 WHICH 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 CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. THIS MAY REQUIRE PERIODIC OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT 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.
8. CONTRACTOR TO COORDINATE EXACT LOCATION OF THIS DETAIL. TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT

EROSION CONTROL SCHEDULE AND PHASING

THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING:

- PHASE 1 - DEMOLITION/GRADING
- A. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE, AND TREE PROTECTION FENCE ACCORDING TO THE APPROXIMATE LOCATION SHOWN ON GRADING AND EROSION CONTROL PLAN, NOTES, AND DETAIL SHEETS.
 - B. BEGIN CLEARING AND GRADING OF SITE.
 - C. SEED AND REVEGETATE SLOPES WHERE SHOWN.
- PHASE 2 - UTILITIES
- A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
 - B. INSTALL STORM DRAINS AS SPECIFIED ON PLAN SHEETS.
 - C. INSTALL INLET PROTECTION.
- PHASE 3 - PAVING
- A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE. REMOVE AS NEEDED TO PAVE.
 - B. STABILIZE SUBGRADE.
 - C. PAVE PARKING LOT AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.
 - D. REMOVE TEMPORARY CONSTRUCTION ENTRANCE.
- PHASE 4 - LANDSCAPING AND SOIL STABILIZATION
- A. REVEGETATE LOT AND PARKWAYS
 - B. LANDSCAPE CONTRACTOR SHALL REVEGETATE ALL AREAS RESERVED FOR LANDSCAPE VEGETATIVE COVERS.
 - C. REMOVE EROSION CONTROL DEVICES WHEN GROUND COVER ESTABLISHED.

B.M.P. MAINTENANCE SCHEDULE

TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE FACILITY IS FUNCTIONING PROPERLY. AGGREGATE PAD SHALL BE WASHED DOWN OR REPLACED WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN THE STONES OR MUD IS BEING TRACKED ONTO THE PUBLIC ROADWAY. RUNOFF FROM WASH DOWN OPERATION SHALL BE FILTERED THROUGH ANOTHER B.M.P. PRIOR TO DRAINING OFF-SITE.

SILT FENCE:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS. SEDIMENT SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO ONE-THIRD THE HEIGHT OF THE FENCE ABOVE GRADE. FENCE SHALL BE INSPECTED FOR GAPS AT BASE. INSPECT SUPPORTING POSTS AND FILTER FABRIC. REPLACE IF REQUIRED.

INLET PROTECTION:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. SEDIMENT SHALL BE REMOVED FROM THE STORAGE AREA WHEN SEDIMENT DEPTH HAS BUILT UP TO ONE-HALF THE DESIGN DEPTH. IF DE-WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE SURROUNDING THE INLET. CLEAN THE STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILD-UP WILL REQUIRE FILTER STONE REPLACEMENT.

CONSTRUCTION OF A FILTER BARRIER

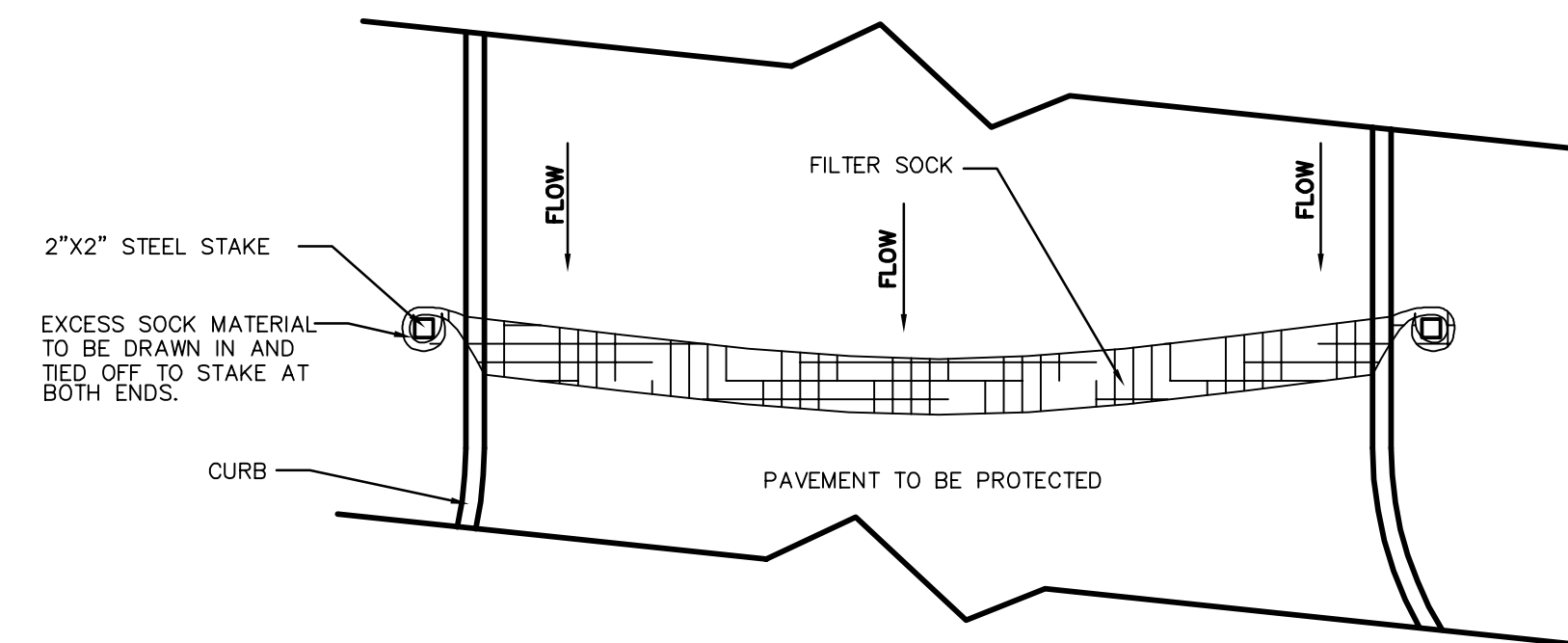


N.T.S.

CONSTRUCTION ENTRANCE



N.T.S.



FILTER SOCK GENERAL NOTES

1. ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS
2. FILTER SOCK TO BE FILTREXX INLET SOXX OR APPROVED EQUAL
3. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. FILTER SOCK SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
5. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE SOCK. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

FILTER SOCK INSTALLATION



N.T.S.

RECORD DRAWING

THIS RECORD DRAWING HAS BEEN REVISED TO CONFORM TO THE CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR. ALIGNMENT AND GRADES SHOWN ON THIS DRAWING WERE NOT FIELD VERIFIED BY THE ENGINEER.

DATE: AUGUST 8, 2018

Printed by: James Ford Date: 8/7/2018 3:38 PM

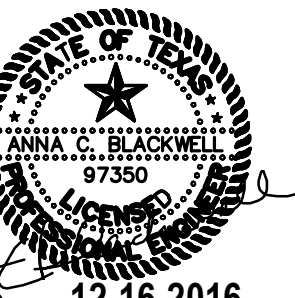
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8/7/2018

Drawing: 15-18-122-001 - Valvoline Road - Rockwall - EROSION CONTROL DEFS&S.dwg Sewed By: James

Carrillo Engineering, LLC

301 Commerce Street, Ste 1410 - Fort Worth, Texas 76102
Phone: 817-896-0976 - Firm Registration #11-15893



12-16-2016

VALVOLINE EXPRESS CARE
2325 SOUTH GOLIAD STREET
CITY OF ROCKWALL, TEXAS

EROSION CONTROL DETAILS

Issue Dates:

Date

Revisions

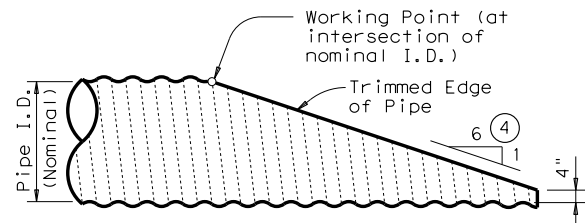
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Drawn By: LJM

Checked By: ACB

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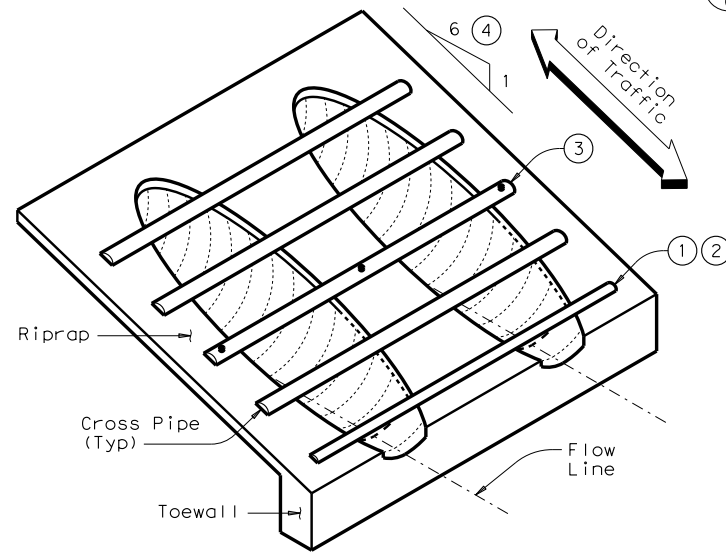
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



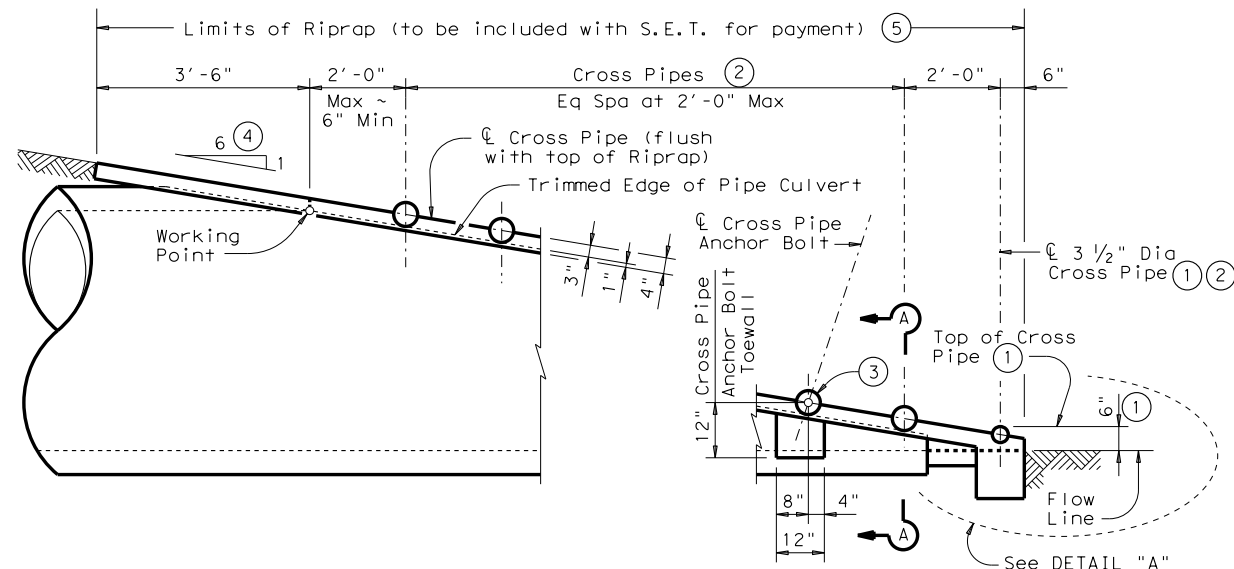
NOTE: All Cross Pipes, calculations, and dimensions are based on the pipe culverts mitered as shown in this detail. Alternate styles of mitered ends will require that appropriate adjustments be made to the values presented on this standard.

SIDE ELEVATION OF TYPICAL PIPE CULVERT MITER

(Showing Corrugated Metal Pipe Culvert.)
(Details at Concrete Pipe Culvert are similar.)

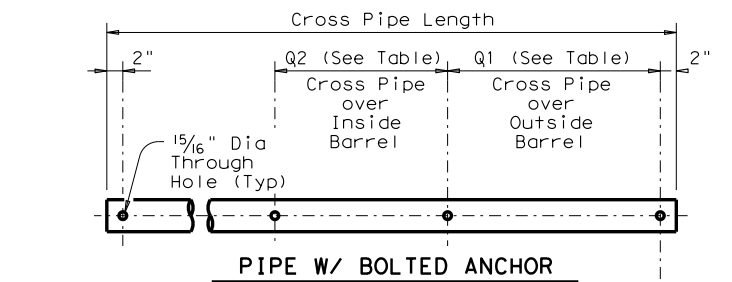


ISOMETRIC VIEW OF TYPICAL INSTALLATION

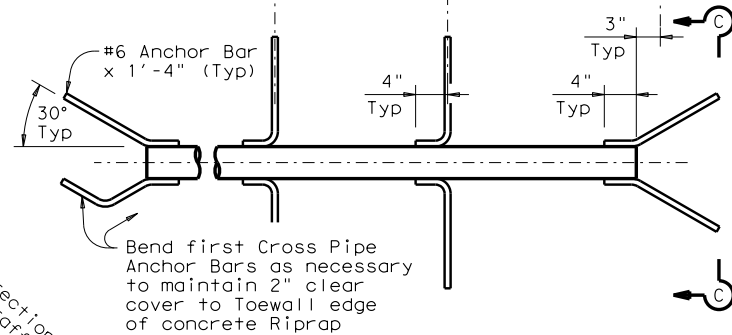


SIDE ELEVATION OF CAST-IN-PLACE CONCRETE

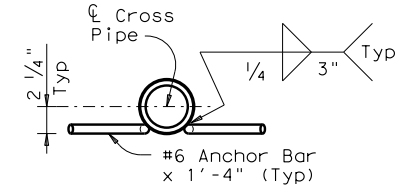
(Showing Concrete Pipe Culvert.)
(Details at Corrugated Metal Pipe Culvert are similar.)



PIPE W/ BOLTED ANCHOR

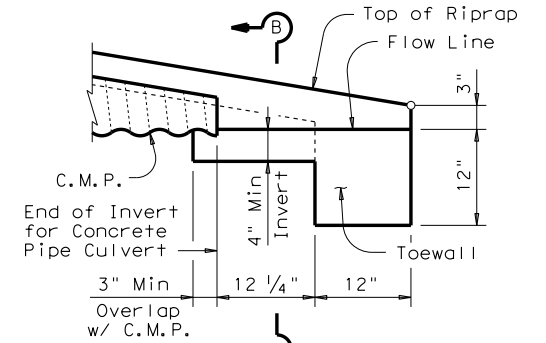


PIPE W/ ANCHOR BARS



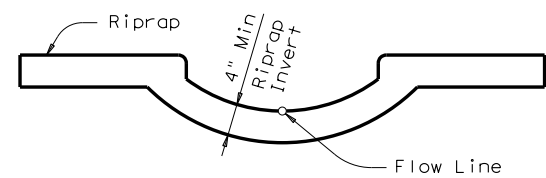
SECTION C-C

CROSS PIPE DETAILS



DETAIL "A"

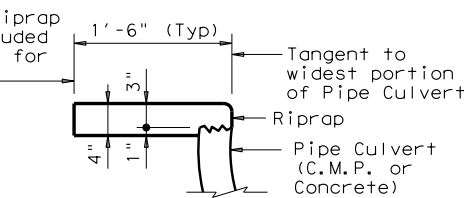
(Showing Invert with Corrugated Metal Pipe Culvert. Concrete Pipe Culvert details are similar. Cross Pipes not shown for clarity.)



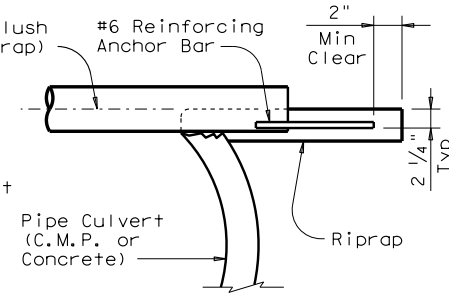
SECTION B-B

(Cross Pipes not shown for clarity.)

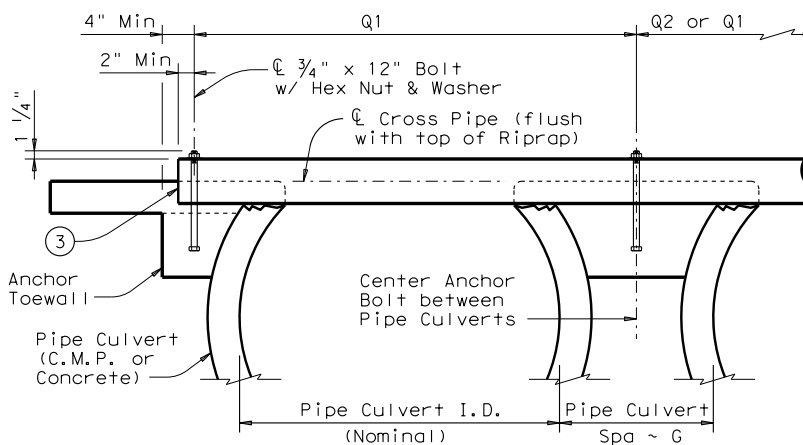
Limits of Riprap (to be included with S.E.T. for payment) ⑤



SHOWING TYPICAL PIPE CULVERT & RIPRAP



SHOWING CROSS PIPE WITH ANCHOR BAR



SHOWING CROSS PIPE WITH BOLTED ANCHOR

SECTION A-A

CROSS PIPE LENGTHS, REQUIRED PIPE SIZES, & RIPRAP QUANTITIES ②

Nominal Culvert I.D.	Conc Riprap (CY) ⑥	Pipe Culvert Spa ~ G	Single Barrel ~ Q1	Multi-Barrel ~ Q1	Q2	Conditions for use of Cross Pipes	Cross Pipe Size
12"	0.6	9"	N/A	2'-1"	1'-9"	3 or more Pipe Culverts	3" Std (3.500" O.D.)
15"	0.7	11"	N/A	2'-5"	2'-2"		
18"	0.8	1'-2"	N/A	2'-10"	2'-8"		
21"	0.9	1'-4"	N/A	3'-2"	3'-1"		
24"	0.9	1'-7"	N/A	3'-6"	3'-7"	3 or more Pipe Culverts	3 1/2" Std (4.000" O.D.)
27"	1.0	1'-8"	N/A	3'-10"	3'-11"		
30"	1.1	1'-10"	N/A	4'-2"	4'-4"	2 or more Pipe Culverts	3 1/2" Std (4.000" O.D.)
33"	1.2	1'-11"	4'-2"	4'-5"	4'-8"	All Pipe Culverts	
36"	1.3	2'-1"	4'-5"	4'-9"	5'-1"	All Pipe Culverts	4" Std (4.500" O.D.)
42"	1.5	2'-4"	4'-11"	5'-5"	5'-10"		
48"	1.7	2'-7"	5'-5"	6'-0"	6'-7"	All Pipe Culverts	5" Std (5.563" O.D.)
54"	2.0	3'-0"	5'-11"	6'-9"	7'-6"		
60"	2.2	3'-3"	6'-5"	7'-4"	8'-3"		
66"	2.4	3'-3"	6'-11"	7'-10"	8'-9"		
72"	2.7	3'-4"	7'-5"	8'-5"	9'-4"		

- ① The proper installation of the first Cross Pipe is critical for vehicle safety. The top of the first Cross Pipe must be placed at no more than 6" above the flow line.
- ② Size of Cross Pipes, except the first bottom pipe, shall be as shown in the PIPE SIZE table. The first bottom pipe shall be 3 1/2" Standard Pipe (4" O.D.).
- ③ The third Cross Pipe from the bottom of the Culvert shall always be installed using a bolted connection. Care shall be taken to ensure that Riprap concrete does not flow into the Cross Pipe so as to permit disassembly of the bolted connection to allow cleanout access. At the Contractor's option, all other Cross Pipes may also be installed using the bolted connection details.
- ④ Match Cross Slope as shown elsewhere in the plans. Cross Slope of 6:1 or flatter is required for vehicle safety.
- ⑤ Riprap placed beyond the limits shown will be paid as Concrete Riprap in accordance with Item 432, "Riprap".
- ⑥ Quantities shown are for one end of one reinforced Concrete Pipe Culvert. For multiple pipe culverts or for Corrugated Metal Pipe Culverts, quantities will need to be adjusted. Riprap quantities are for Contractor's information only.

GENERAL NOTES:

Cross Pipes are designed for a traversing load of 10,000 pounds at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

Safety End Treatments shown herein are intended for use in those installations where out of control vehicles are likely to traverse the openings approximately perpendicular to the Cross Pipes.

Riprap and all necessary inverts shall be Concrete Riprap conforming to the requirements of Item 432, "Riprap".

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Payment for riprap and toewall is included in the Price Bid for each Safety End Treatment.

Cross Pipes shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52. Bolts and nuts shall conform to ASTM A307.

All steel components, except concrete reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.

Texas Department of Transportation
Bridge Division Standard

SAFETY END TREATMENT

FOR 12" DIA TO 72" DIA
PIPE CULVERTS
TYPE II ~ PARALLEL DRAINAGE

SETP-PD

FILE: setppdse.dgn	DN: GAF	CK: CAT	DW: JRP	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
11-10: Add note for synthetic fibers.	DIST	COUNTY	SHEET NO.	

DATE: FILE: