Bleyl & Associates

APPENDIX P-1
EROSION CONTROL NOTES

1. The contractor shall install erosion/sedimentation controls and tree/natural area protective fencing prior to any site preparation work (clearing, grubbing or excavation)
2. The placement of erosion/sedimentation controls shall be in accordance with the Environmental Criteria Manual and the approved Erosion and Sedimentation Control Plan. The COA ESC Plan shall be consulted and used as the basis for a TPDES required SWPPP. If a SWPPP is required, it shall be available for review by the City of Austin Environmental Inspector at all times during construction, including at the Pre-Construction meeting. The checklist below contains the basic elements that shall be reviewed for permit approval by COA EV Plan Reviewers as well as COA EV Inspectors.
3. The Placement of tree/natural area protective fencing shall be in accordance with the City of Austin standard Notes for Tree and Natural Area Protection and the approved Grading/Tree and Natural Area Plan.
4. 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 owner or owner's representative shall notify the Planning and Development Review Department, 974-2278, at least three days prior to the meeting date. COA approved ESC Plan and TPDES SWPPP (if required) should be reviewed by COA EV Inspector at this time.
5. Any major variation in materials or locations of controls or fences from those shown on the approved plans will require a revision and must be approved by the reviewing Engineer, Environmental Specialist or City Arborist as appropriate. Major revisions must be approved by the Planning and Development Review Department. Minor changes to be made as 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.
6. The contractor is required to provide a certified inspector with either a Certified Professional in Erosion and Sediment Control (CPESC), Certified Erosion, Sediment and Stormwater-Inspector (CESSWI) or Certified Inspector of Sedimentation and Erosion Controls (CISEC) certification 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.
7. Prior to final acceptance by the City, haul roads and waterway crossings constructed for temporary contractor access must be removed, accumulated sediment removed from the waterway and the area restored to the original grade and revegetated. All land clearing debris shall be disposed of in approved spoil disposal sites.
8. All work must stop if a void in the rock substrate is discovered which is, one square foot in total area; blows air from within the substrate and/or consistently receives water during any rain event. At this time it is the responsibility of the Project Manager to immediately contact a City of Austin Environmental Inspector for further investigation.
9. Temporary and Permanent Erosion Control. All disturbed areas shall be restored as noted below.
   A. All disturbed areas to be revegetated are required to place a minimum of six (6) inches of topsoil (see Standard Specification Item No. 601S.3(A)). Do not add topsoil within the critical root zone of existing trees. The topsoil shall be composed of 4 parts of soil mixed with 1 part compost, by volume. The compost shall meet the definition of compost as defined by TxDOT Specification Item 161. The soil shall be locally available native soil that meets the following specifications. •• Shall be free of trash, weeds, deleterious materials, rocks, and debris.
   •• 100% shall pass through a 1.5-inch (38-mm) screen.
   •• Soil to be a loamy material that meets the requirements of the table below in accordance with the USDA textural triangle. Soil

   Textural ClassMinimumMaximum Clay5%50%Silt10%50%Sand15%67%
   •• An owner/engineer may propose use of onsite salvaged topsoil which does not meet the soil texture class required above by providing a soil analysis and a written statement from a qualified professional in soils, landscape architecture, or agronomy indicating the onsite topsoil will provide an equivalent growth media and specifying what, if any, soil amendments are required.
   •• Soil amendments shall be worked into the existing onsite topsoil with a disc or tiller to create a well-blended material.
   Topsoil salvaged from the existing site may often be used, but it should meet the same standards as set forth in these standards.
   The vegetative stabilization of areas disturbed by construction shall be as follows.

TEMPORARY VEGETATIVE STABILIZATION:
10. From September 15 to March 1, seeding shall be with cool season cover crops (Wheat at 0.5 pounds per 1000 SF, Oats at 0.5 pounds per 1000 SF, Cereal Rye Grain at 0.5 pounds per 1000 SF) with a total rate of 1.5 pounds per 1000 SF. Cool season cover crops are not permanent erosion control.
   B.

APPENDIX P-1 (CONTINUED)
EROSION CONTROL NOTES

1. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 1 pounds per 1000 SF
   A. Fertilizer shall be water soluble with an analysis of 15-15-15 to be applied once at planting and once during the period of establishment at a rate of 1/2 pound per 1000 SF
   B. Hydromulch shall comply with Table 1, below
   C. Temporary erosion control 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
   D. When required, native grass seeding shall comply with requirements of the City of Austin Environmental Criteria Manual
   Table 1: Hydromulching for Temporary Vegetative Stabilization
   MaterialDescriptionLongevityTypical ApplicationsApplication Rates 100% or any blend of wood, cellulose, straw, and/or cotton plant material (except no mulch shall exceed 30% paper)70% or greater Wood/Straw 30% or less Paper or Natural Fibers 0-3 monthsModerate slopes, from flat to 3:11500 to 2000 lbs per acre

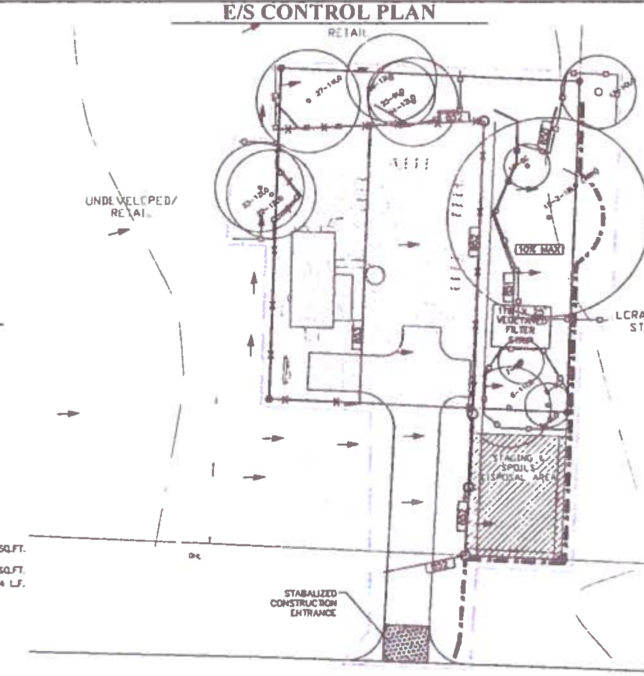
PERMANENT VEGETATIVE STABILIZATION.
2. From September 15 to March 1, seeding is considered to be temporary stabilization only. If cool season cover crops exist where permanent vegetative stabilization is desired, the grasses shall be mowed to a height of less than one-half (1/2) inch and the area shall be re-seeded in accordance with 2, below.
3. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 1 pound per 1000 SF with a purity of 95% with 85% germination. Bermuda grass is a warm season grass and is considered permanent erosion control
   E. Fertilizer shall be a water soluble with an analysis of 15-15-15 to be applied once at planting and once during the period of establishment at a rate of 1/2 pound per 1000 SF
   F. Hydromulch shall comply with Table 2, below
   G. 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 daily intervals (minimum) during the first two months. Rainfall occurrences [illegible]
   H. [illegible] provided no bare spots larger than 16 square feet exist.

   J. When required, native grass seeding shall comply with requirements of the City of Austin Environmental Criteria Manual
   Table 2: Hydromulching for Permanent Vegetative Stabilization
   MaterialDescriptionLongevityTypical ApplicationsApplication Rates Bonded Fiber Matrix (BFM)80% Organic defibrated fibers 10% Tackifier6 monthsOn slopes up to 2:1 and erosive soil conditions2500 to 4000 lbs per acre (see manufacturers recommendations)Fiber Reinforced Matrix (FRM)65% Organic defibrated fibers 25% Reinforcing Fibers or less 10% TackifierUp to 12 monthsOn slopes up to 1:1 and erosive soil conditions3000 to 4500 lbs per acre (see manufacturers recommendations)

14 Developer Information
Owner ______________________ Phone # __________
Address ______________________
Owner's representative responsible for plan alterations
______________________ Phone # __________
Person or firm responsible for erosion/sedimentation control maintenance
______________________ Phone # __________
Person or firm responsible for tree/natural area protection Maintenance.
______________________ Phone # __________
15 The contractor shall not dispose of surplus excavated material from the site without notifying the Planning and Development Review Department at 974-2278 at least 48 hours prior with the location and a copy of the permit issued to receive the material.

E/S CONTROL PLAN

SCALE: 1" = 20'



LEGEND.

FLOW ARROW	
IMPERVIOUS COVER	1,582 SQ.FT.
LIMIT OF CONSTRUCTION	11,857 SQ.FT.
SILT FENCE	184 L.F.
TREE PROTECTION FENCE	
TREE TO BE REMOVED	
TREE TO BE SAVED	

1. REMOVE ALL EXISTING TREES FROM INSIDE ENCLOSURE AREA
2. THE ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN-COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS.
3. THERE ARE NO SLOPES GREATER THAN 15% WITHIN THE LIMITS OF CONSTRUCTION.
4. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING. ECM 1.4.4.B.3, SECTION 5.1
5. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY. ECM 1.4.4.D.4

TREE LEGEND

		% MITIGATION	INCHES REPLACED
3.	8" LIVE OAK		
5.	6" CEDAR		
6	11" LIVE OAK		
7	6" CEDAR		
•9.	6" CEDAR	50%	3
•10.	8" CEDAR	50%	4
•11	15" LIVE OAK	50%	7.5
12	2-18" LIVE OAK (TWIN)		
•13	12" LIVE OAK	50%	6
•14	14" LIVE OAK	50%	7
•15.	6" CEDAR	50%	3
16.	6" CEDAR		
17	10" LIVE OAK		
•18	6" CEDAR	50%	3
•19	6" CEDAR	50%	3
•20	6" CEDAR	50%	3
•21	6" CEDAR	50%	3
22	12" LIVE OAK		
23.	12" LIVE OAK		
24	12" LIVE OAK		
25	9" LIVE OAK		
26.	12" LIVE OAK		
27	14" LIVE OAK		

total tree inches	total replacement inches
239.0	42.5

* DENOTES TREES TO BE REMOVED

TREE SURVEY CONDUCTED: 5/2/2012

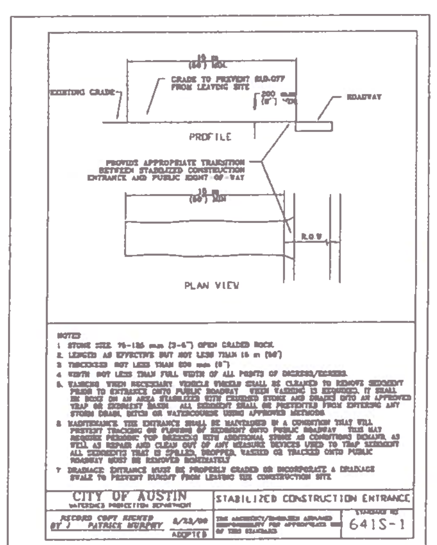
MITIGATION RATES

19" and greater ECM Appendix F	100%
8-18.9" ECM Appendix F	50%
19" and greater, all other trees	50%
8-18.9", all other trees	25%
0-8" ECM Appendix F	50%
0-8", all other trees	25%

URBAN FOREST LEGEND

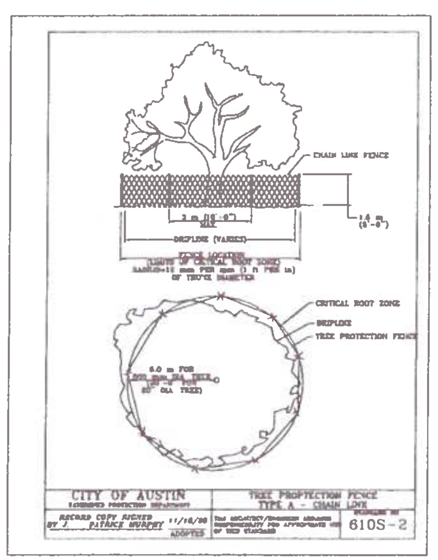
Total Appendix F tree inches	239
Total Appendix F tree inches removed	85
Total Non-Appendix F tree inches removed	0
Total invasive tree inches removed:	0
Total mitigation inches planted	0

STABILIZED CONSTRUCTION ENTRANCE



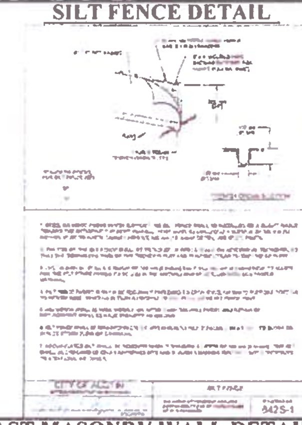
NTS

TREE PROTECTION DETAIL



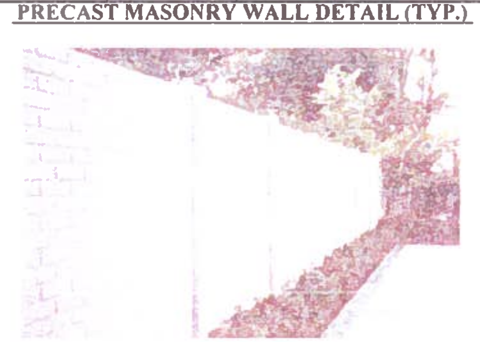
NTS

SILT FENCE DETAIL



NTS

PRECAST MASONRY WALL DETAIL (TYP.)



NOTE: 6' MASONRY WALL TO BE USED AS SCREENING FROM STREET VIEW 25-2-839 (E) 5 (b)
NOTE: IF (OPTIONAL) VEGETATION IS INCLUDED TOWER OWNER WILL BE RESPONSIBLE TO MONITOR LANDSCAPE TREES (CREPE MYRTLE TYP.) AND REPLACE AS NEEDED. 25-2-984, 25-2-1001 AND 25-2-1008.

NTS

BLEYL & ASSOCIATES — DATE
1715 CAPITAL OF TX HWY S. SUITE 109
AUSTIN, TX. 78746
PH. 512-328-7878
FAX 512-328-7884
FIRM REGISTRATION No. F-678
(THE ABOVE SEAL VALID FOR EROSION CONTROL, WATER QUALITY & DRAINAGE IMPROVEMENTS ONLY)

SITE PLAN APPROVAL SHEET ____ OF ____
FILE NUMBER ________ APPLICATION DATE ________
APPROVED BY COMMISSION ON ________ UNDER SECTION ________ OF
CHAPTER ____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81, LDC) ________ CASE MANAGER ________
PROJECT EXPIRATION DATE (ORD #970905-A) ________ DWPZ ____ DDZ ____

Planning and Development Review.
RELEASED FOR GENERAL COMPLIANCE ________ ZONING ________
Rev. 1 ________ Correction 1 ________
Rev. 2 ________ Correction 2 ________
Rev. 3 ________ Correction 3 ________

Final plat must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

CASE # SPC-2012-0352CS
SUBMITTAL DATE OCTOBER 15, 2012

REV	DATE	BY	APP	COMMENT

PREPARED FOR:

SCALE:
DATE:
DRAWN BY:
PROJECT MANAGER: VINCENT G. HUEBINGER

Bleyl & Associates
Project Engineering & Management
FIRM REGISTRATION No. F-678
1715 CAPITAL OF TEXAS HWY S, SUITE 109
AUSTIN, TEXAS 78746
512-328-7878 PHONE
512-328-7884 FAX

E/S CONTROL PLAN
NOTES & DETAILS

KEITH HARRIS MEMORIAL
120' MONOPOLE

6000-1/2 SH 45
AUSTIN, TEXAS 78739

PROJECT NUMBER 10792
FILE NAME: KEITH HARRIS MEMORIAL
SHEET: 3 OF 5