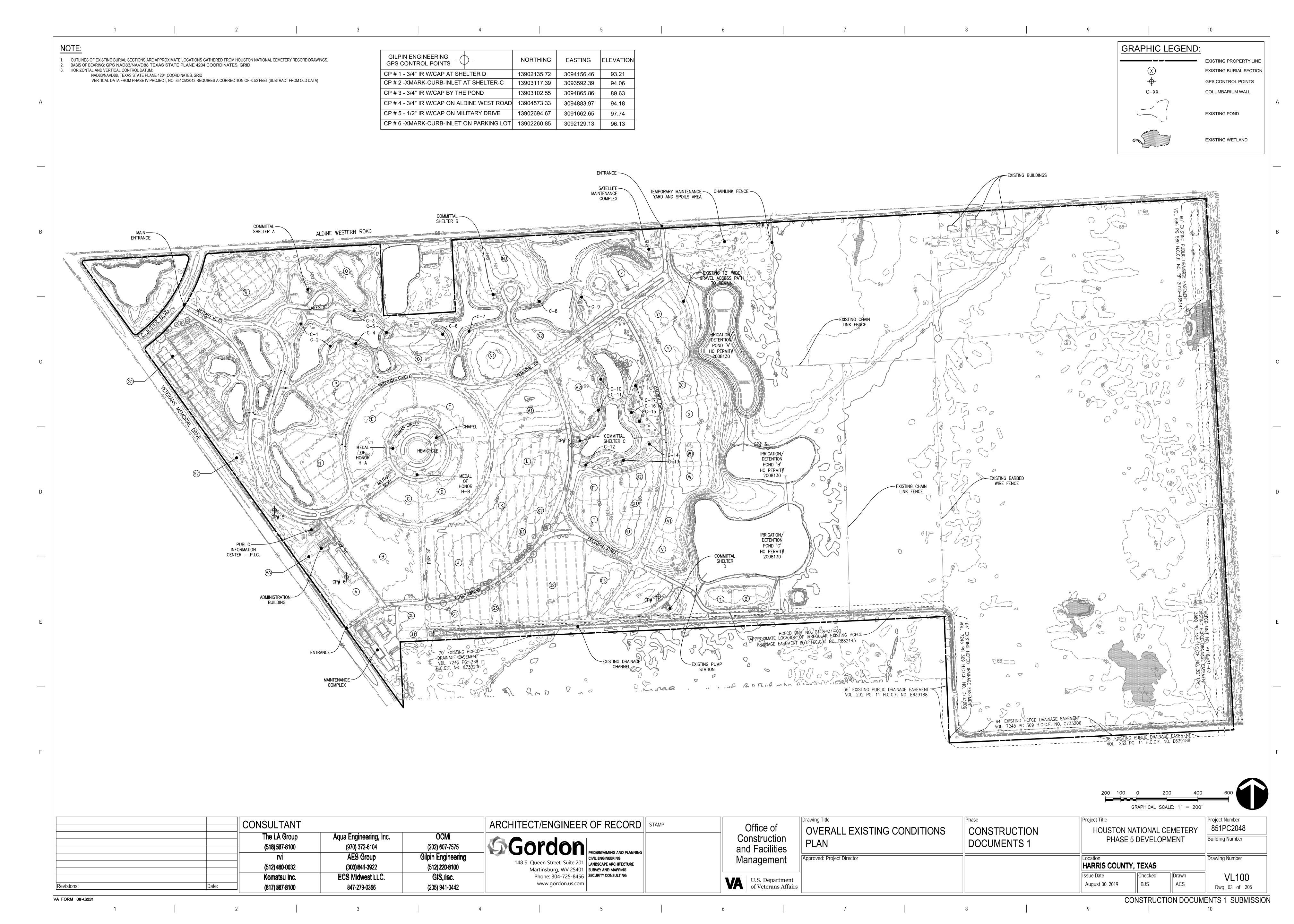
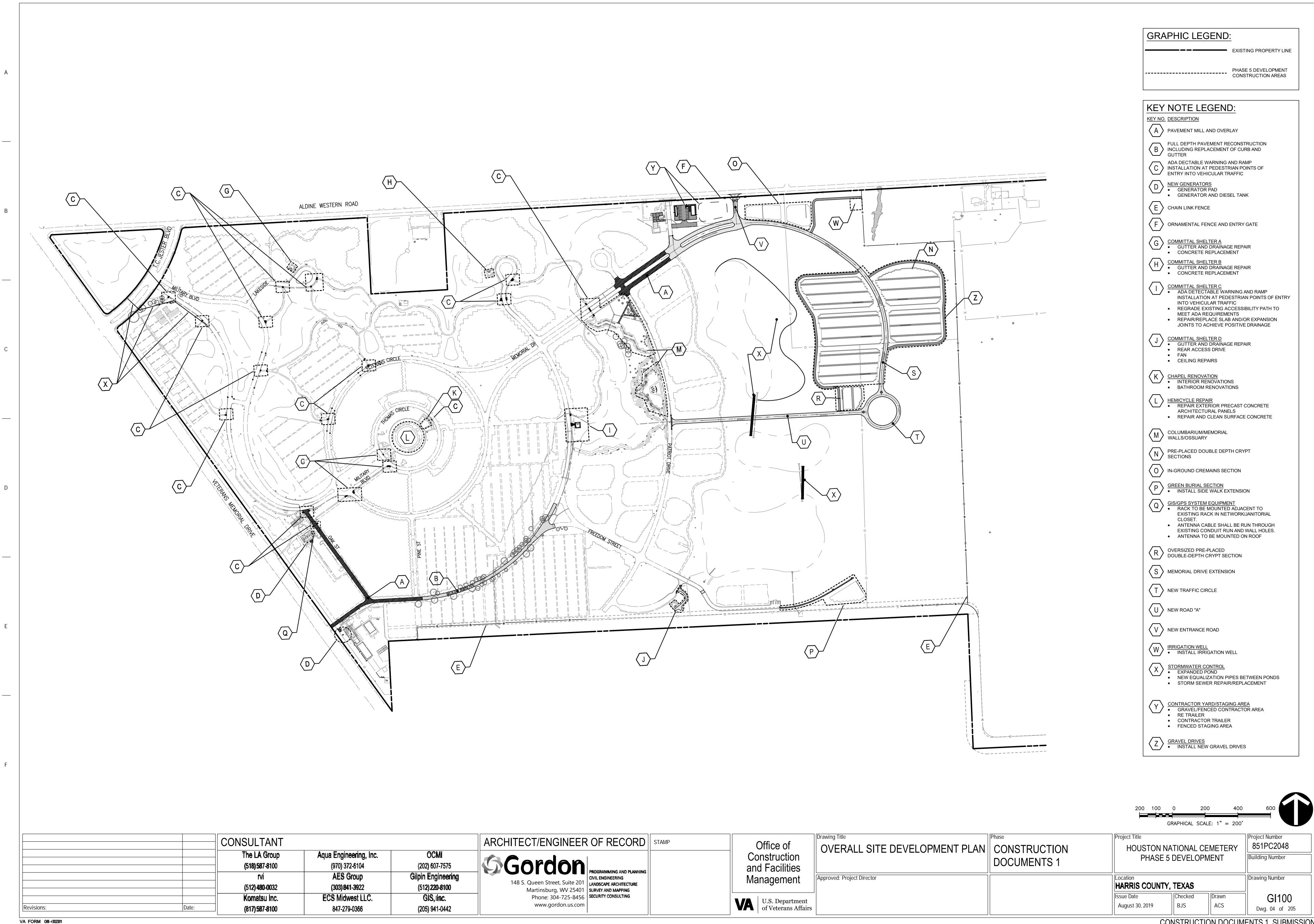
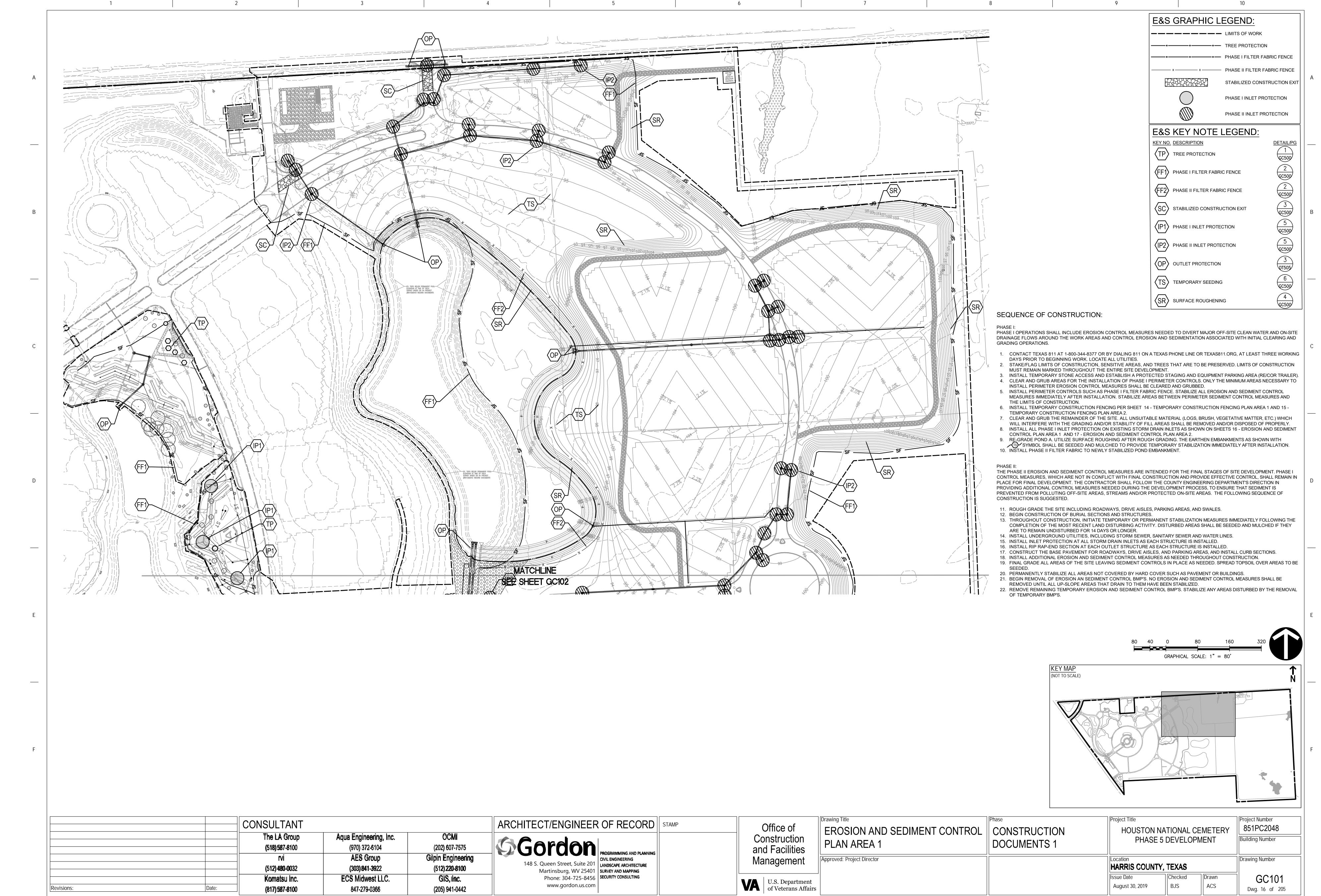


## APPENDIX A PHASE V DEVELOPMENT CONSTRUCTION PLANS

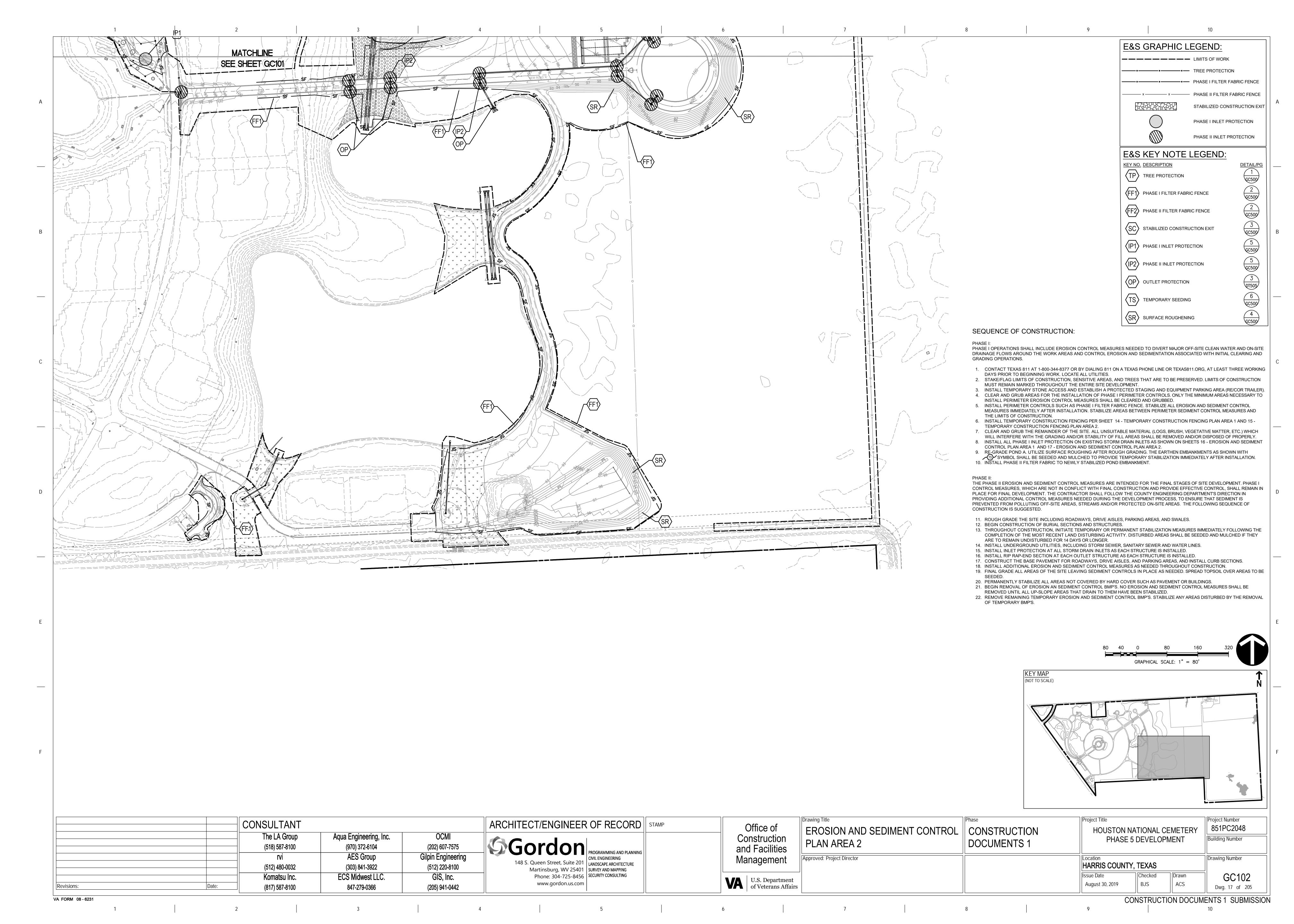




CONSTRUCTION DOCUMENTS 1 SUBMISSION



VA FORM 08-652311



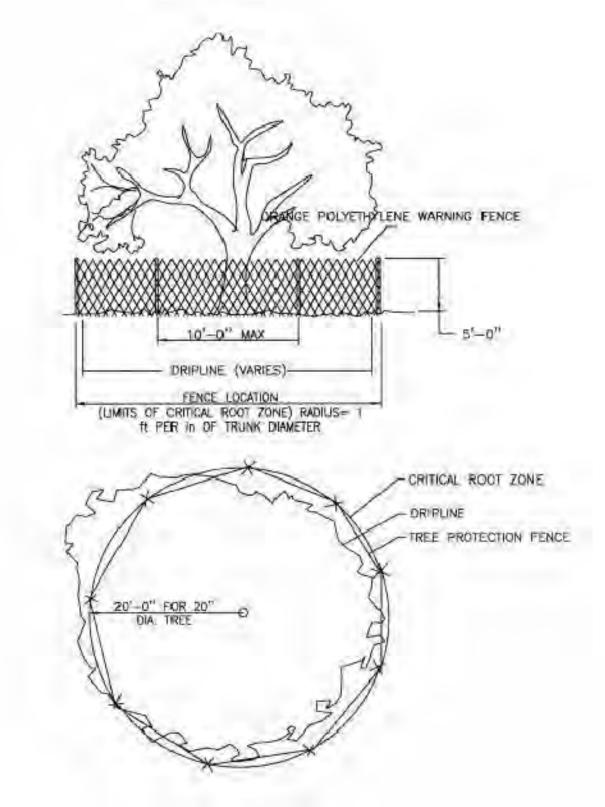
## **EROSION AND SEDIMENT CONTROL NOTES:**

- 1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN
- SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION. 2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE RE/COR SHALL INVITE ALL CONTRACTORS, THE CEMETERY DIRECTOR, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE E&S PLAN, AND A REPRESENTATIVE
- FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING. 3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, TEXAS 811. SHALL BE NOTIFIED AT 1-800-344-8377 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN
- WRITING FROM HARRIS COUNTY PRIOR TO IMPLEMENTATION. 5. PRIOR TO COMMENCING CLEARING AND GRADING, CONTRACTOR TO INSTALL PERIMETER EROSION
- AND SEDIMENT CONTROLS. 6. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL
- 7. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMP'S SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- 8. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF WORK BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- 9. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- 10. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY HARRIS COUNTY. 11. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR
- DISPOSED OF IN ACCORDANCE WITH THE HARRIS COUNTY REGULATIONS. 12. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY HARRIS COUNTY FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN 14. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE
- DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. 15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S SHALL BE MAINTAINED IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED WITHIN 24 HOURS. IF THE E&S BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS OF THOSE
- INSTALLED WILL BE REQUIRED TO BE IMPLEMENTED WITHIN 48 HOURS. 16. A LOG SHOWING DATES THAT E&S BMP'S WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO
- REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION. 17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE
- DITCH, STORM SEWER, OR SURFACE WATER. 18. ALL SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- 19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES, 6 TO 12 INCHES ON COMPACTED SOILS, PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATEI SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL. 20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT,
- SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. 21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 22. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD. 23. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED
- AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN. 24. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN, AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT
- BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS. 25. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO
- SLUMPING, SLIDING, OR OTHER MOVEMENTS. 26. E&S BMP'S SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY HARRIS
- 27. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE RE/COR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMP'S.
- 28. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP'S MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMP'S. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMP'S SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- 29. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE RE/COR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
- 30. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS. 31. UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD

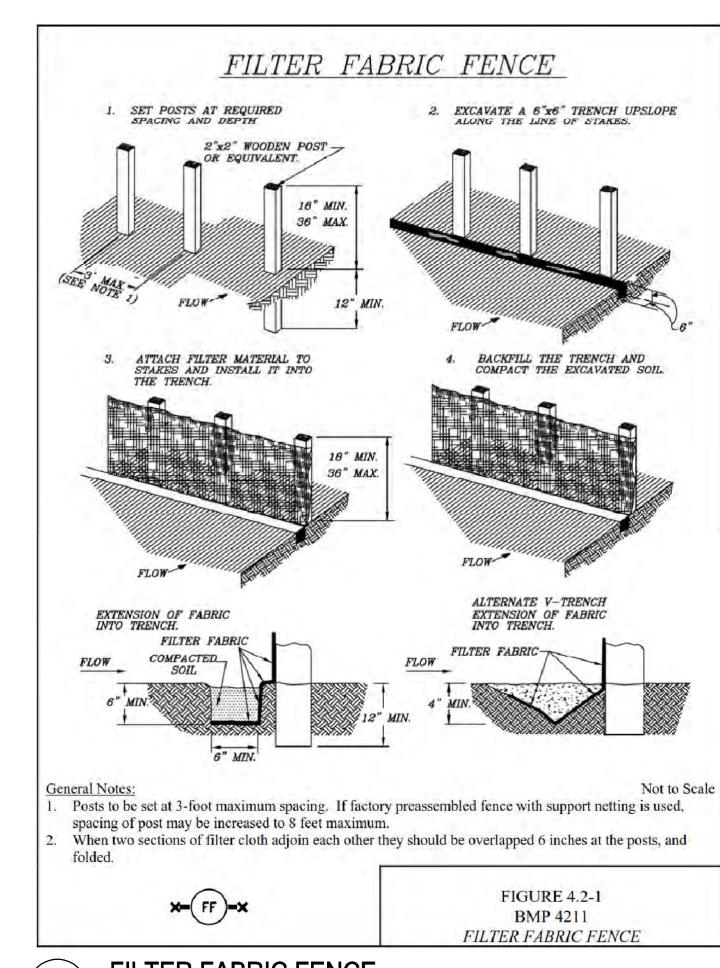
32. THE SOIL EROSION WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENTS BY THE

DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO HARRIS COUNTY.

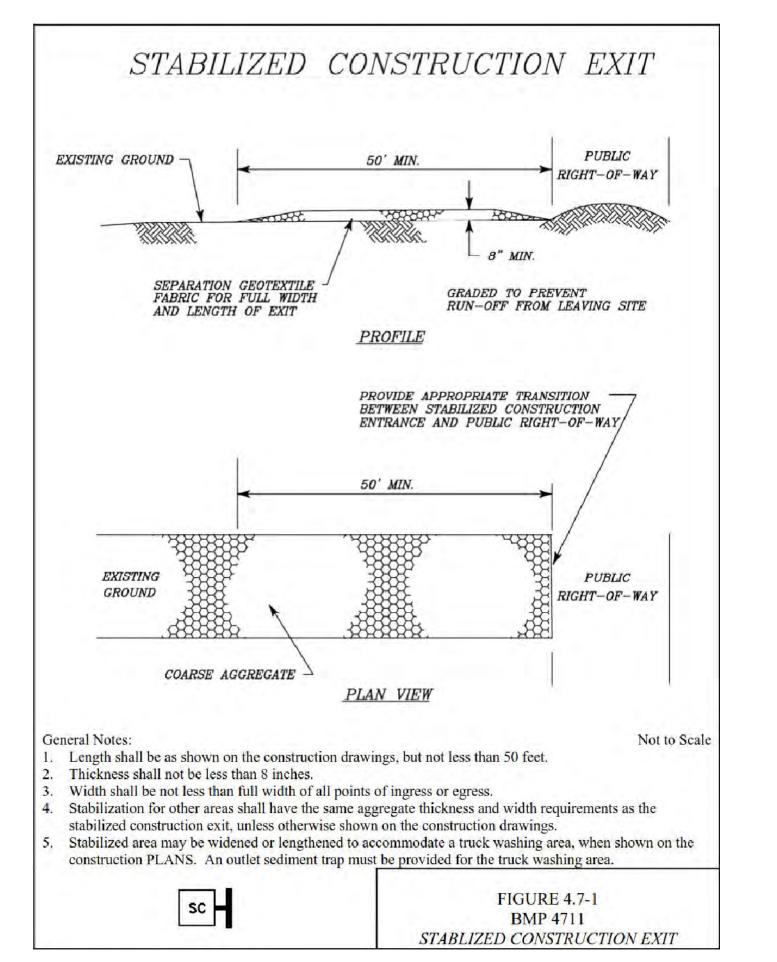
CONTRACTOR.



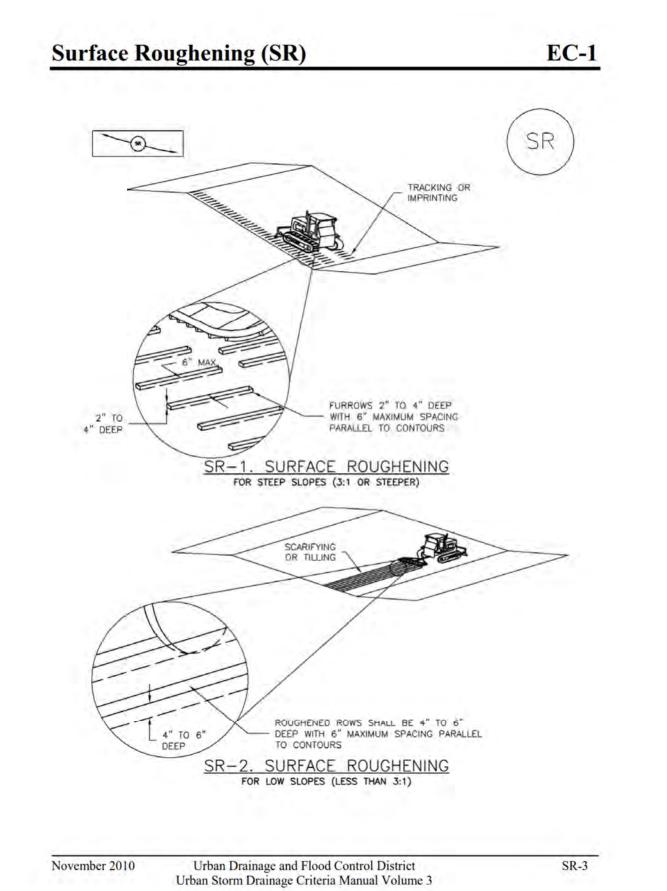
TREE PROTECTION SOURCE: CITY OF HOUSTON SWM HANDBOOK FOR CONSTRUCTION ACTIVITIES



FILTER FABRIC FENCE SOURCE: CITY OF HOUSTON SWM HANDBOOK FOR CONSTRUCTION ACTIVITIES

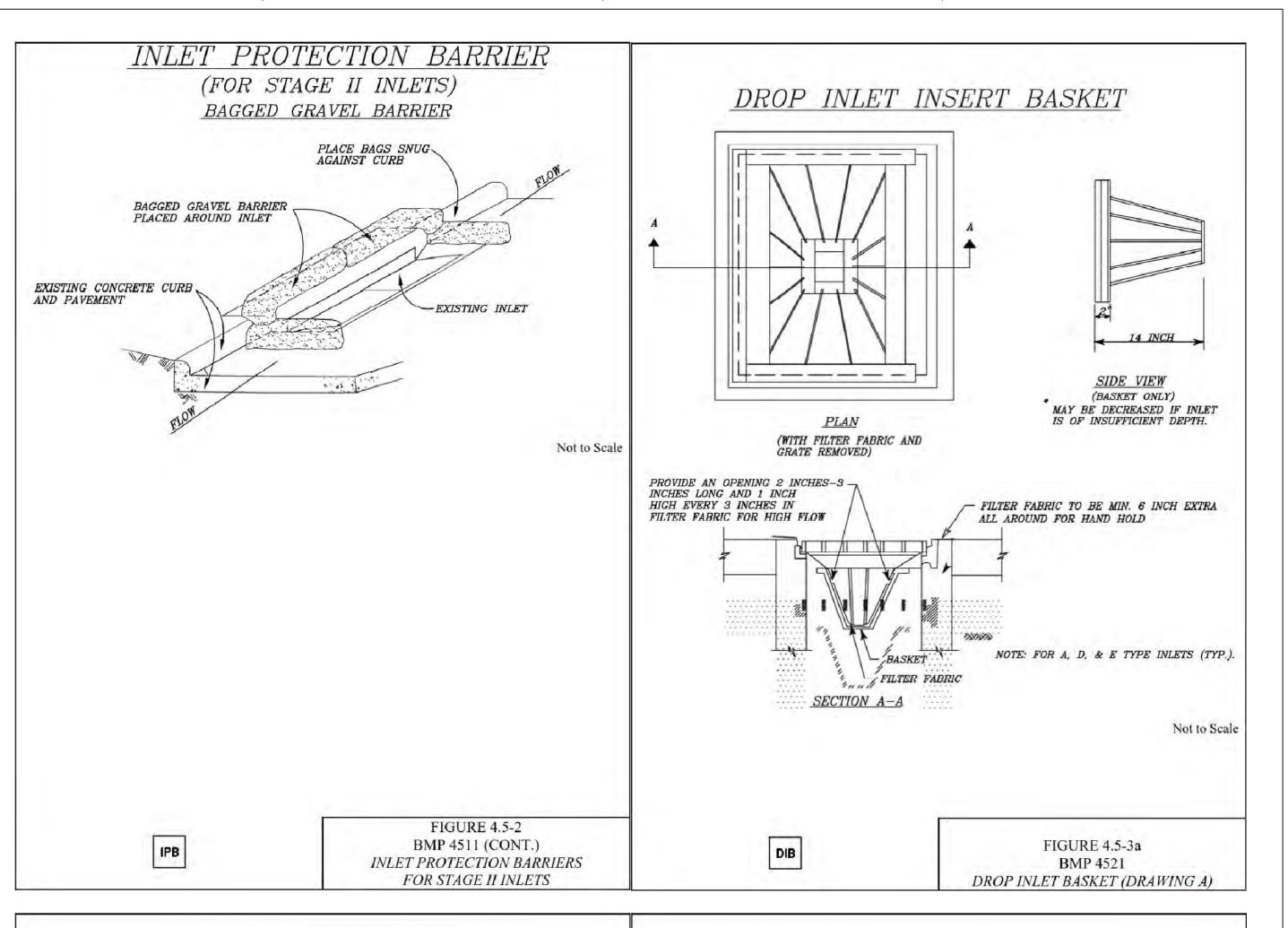


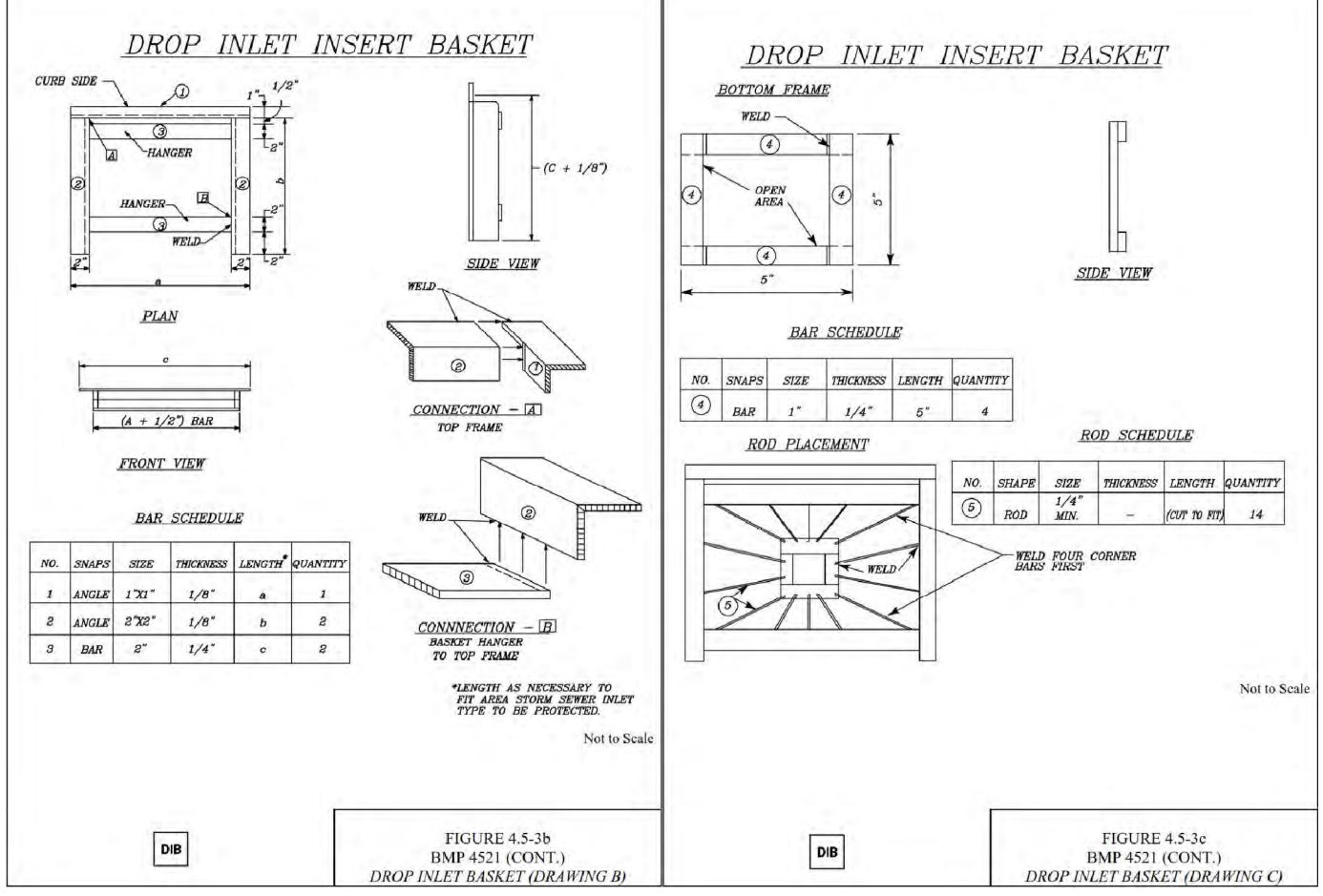
STABILIZED CONSTRUCTION EXIT SOURCE: CITY OF HOUSTON SWM HANDBOOK FOR CONSTRUCTION ACTIVITIES



- SURFACE ROUGHENING INSTALLATION NOTES:
  - 1. SEE PLAN VIEW FOR: LOCATION(S) OF SURFACE ROUGHENING 2. SURFACE ROUGHENING SHALL BE PROVIDED PROMPTLY AFTER COMPLETION OF FINISHED GRADING (FOR AREAS NOT RECEIVING TOPSOIL) OR PRIOR TO TOPSOIL PLACEMENT OR ANY FORECASTED RAIN EVENT
  - 3. AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOD WILL BE PLACED WITHOUT DELAY IN THE CONSTRUCTION SEQUENCE, SURFACE ROUGHENING IS NOT REQUIRED. 4. DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILLING EQUIPMENT ON THE
  - CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS. 5. A FARMING DISK SHALL NOT BE USED FOR SURFACE ROUGHENING.

SURFACE ROUGHENING NTS SOURCE: URBAN DRAINAGE AND FLOOD CONTROL DISTRICT URBAN STORM DRAINAGE CRITERIA MAN VOL 3





**INLET PROTECTION** SOURCE: CITY OF HOUSTON SWM HANDBOOK FOR CONSTRUCTION ACTIVITIES

TYPE

HULLED BERMUDA GRASS/ LOVE GRASS

UNHULLED BERMUDA/ GRASS OATS/

MIX BERMUDA AND ANNUAL RYE IN

FOLLOWING PROPORTIONS

ANNUAL MILLET GRASS

## TEMPORARY EROSION CONTROL SEEDING INSTALLATION NOTES:

SEEDING OF VEGETATION FILTER STRIP IS TO BE CONTAINED WITHIN A PROJECT CONSTRUCTION RATES OF APPLICATION SITE. TEMPORARY SEEDING LOCATIONS ARE AS INDICATED ON PLANS. TEMPORARY SEEDING IS IN POUNDS PER ACRE PLANTING DATE INTENDED TO GERMINATE AND ESTABLISH WITHIN 10-14 DAYS. THE SPECIES USED IN THIS SEEDING ARE NOT PERMANENT OR SHOULD BE INTEGRATED WITH A PERMANENT SEEDING OR JAN. 1 TO APR. 1

SEEDS; CONFORM TO REQUIREMENTS OF USDA RULES AND REGULATIONS AS SET FORTH OF FEDERAL SEED ACT AND TEXAS SEED LAW. USE SEED WHICH HAS BEE TREATED WITH AN APPROVED FUNGICIDE. CONTAINER LABELS TO SHOW PURITY, GERMINATION, NAME AND TYPE OF SEED, AND SOURCE OR ORIGIN. REFER TO TABLE FOR PLANTING DATE, TYPE, AND RATE.

12:200

35-40

APR. 1 TO OCT. 1

OCT. 1 TO JAN. 1

APR. 1 TO NOV. 1

	CONSULTANT			ARCHITECT/ENGINEER OF RECORD STAMP		Office of	EROSION AND SEDIMENT CONTROL	Phase CONSTRUCTION	Project Title HOUSTON NATIONAL CEMETERY		Project Number  851PC2048
	The LA Group (518) 587-8100	Aqua Engineering, Inc. (970) 372-6104	OCMI (202) 607-7575	148 S. Queen Street, Suite 201 Martinsburg, WV 25401 Phone: 304-725-8456 www.gordon.us.com	CIVIL ENGINEERING  LANDSCAPE ARCHITECTURE  SURVEY AND MAPPING  SECURITY CONSULTING	Construction		DOCUMENTS 1	PHASE 5 DEVELOPMENT		Building Number
	rvi	AES Group	Gilpin Engineering			Management	Approved: Project Director		Location		Drawing Number
	<u>(512)</u> 480-0032	(303) 841-3922	(512) 220-8100			Managomone			HARRIS COUNTY,		
	Komatsu Inc.	ECS Midwest LLC.	GIS, Inc.			U.S. Department			Issue Date	Checked Drawn	GC500
Revisions: Date:	(817) 587-8100	847-279-0366	(205) 941-0442			U.S. Department of Veterans Affairs			August 30, 2019	BJS ACS	Dwg. 18 of 205

CONSTRUCTION DOCUMENTS 1 SUBMISSION

VA FORM 08 - 6231

5 9

