### **OWNER'S SIGNATURE BLOCK**

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

NAME

DATE

### ENGINEER'S SIGNATURE BLOCK

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

JESSICA MCCALLUM, PE KIMLEY-HORN AND ASSOCIATES, INC. DATE

### EL PASO COUNTY REVIEW STATEMENT

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSION, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONIBILITY FOR COMPLETENESS AND/ OR ACCURACY OF THIS DOCUMENT. FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL ÀS AMENDED.

IN ACCORDANCE WITH FCM SECTION 1.12 THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR A CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF THE CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JOSHUA PALMER, P.E. COUNTY ENGINEER / ECM ADMINISTRATOR

DATE

# MCDONALD'S AT FONTAINE AND MARKSHEFFEL GRADING AND EROSION CONTROL VILLAGE AT LORSON RANCH FILING NO.1 LOT 2

 $S_2^{\frac{1}{2}}$  of section 15, township 15s, range 65 west of the 6th p.m., COUNTY OF EL PASO, STATE OF COLORADO



VICINITY MAP

NOT TO SCALE

GRA	DING AND EROSION CONTROL PLAN
SHEET NUMBER	SHEET TITLE
C2.1	COVER
C2.2	NOTES
C2.3	INITIAL EC
C2.4	FINAL EC
C2.5	CUT FILL PLAN
C2.6	EROSION CONTROL DETAILS
C2.7	EROSION CONTROL DETAILS
C2.8	EROSION CONTROL DETAILS
C2.9	EROSION CONTROL DETAILS
C2.10	EROSION CONTROL DETAILS

## LAND AREA:

55,101 SQ. FT. OR 1.265 ACRES MORE OR LESS

BASIS OF BEARING:

### **BENCHMARK**:

ELEVATIONS ARE BASED UPON A FOUND 2" ALUMINUM CAP STAMPED "FARNSWORTH GROUP INC. PLS 38053" ON THE WEST LINE OF TRACT B AS SHOWN AS HEREON (ELEVATION = 5724.52) LEGAL DESCRIPTION VILLAGE AT LORSON RANCH FILING NO.1, LOT 2

## GENERAL NOTES:

- JUSTICE.
- APPROVAL.

## FEMA CLASSIFICATION

THE FLOOD INSURANCE RATE MAP (FIRM) PANEL NO. 08041C0957G EFFECTIVE DATE DECEMBER 7, 2018, HAS BEEN EXAMINED AS IT RELATES TO THE PROPERTY BEING PLATTED. THE PROPERTY LIES WITHIN ZONE X, AREA OF MINIMAL FLOOD HAZARD.

## ONSITE DISTURBANCE:

OFFSITE DISTURBANCE: TOTAL:

### CONTACTS:

**DEVELOPER:** 

MCDONALD'S USA, LLC 110 N. CARPENTER STREET CHICAGO, IL 60607 TEL: (206) 348-4374 CONTÀCT: ROBERT YAGUSESKY NORTH EMAIL: ROBERT.YAGUSESKY@US.MCD.COM

> <u>ENGINEER</u> KIMLEY-HORN AND ASSOCIATES, INC. 2 NORTH NEVADA AVE., SUITE 900 COLORADO SPRINGS, CO 80903 TEL: (719) 284-7275 CONTÀCT: JESSICA MCCALLUM, P.E.

LANDSCAPE ARCHITECT: KIMLEY-HORN AND ASSOCIATES, INC. 2 NEVADA NORTH AVE., SUITE 300 COLORADO SPRINGS, CO 80903 TEL: (719) 453-0180 CONTACT: JEREMY POWELL, P.L.A. EMAIL: JEREMY.POWELL@KIMLEY-HORN.COM

BEARINGS ARE BASED ON THE NORTH LINE OF TRACT D, CARRIAGE MEADOWS NORTH FILING NO. 1, BEARING N89°48'24" E, A DISTANCE OF 699.24 FEET, AS MONUMENTED AT BOTH ENDS BY A FOUND YELLOW PLASTIC CAP STAMPED "FWS PLS 38226".

1. THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF

2. THE OWNER IS AWARE THAT THE ACCESS PERMITS (AP211569, AP211570) ARE SUBJECT TO CONDITIONS OF

### LIMITS OF CONSTRUCTION

=	±1.11	ACRES

- $= \pm 0.00$  ACRES
- $= \pm 1.11$  ACRES

<u>ARCHITECT:</u> CORE STATES GROUP 135 WATER STREET, SUITE 201 NAPERVILLE, IL 60540 TEL: (224) 585-4591 CONTACT: JOY VRCHOTA EMAIL: JVRCHOTA@CORE-STATES.COM

SURVEYOR: KIMLEY-HORN AND ASSOCIATES, INC. 6200 S. SYRACUSE WAY, SUITE 300 GREENWOOD VILLAGE, CO 80111 TEL: (303) 228-2300 CONTACT: DARREN WOLTERSTORFF, P.L.S. EMAIL: JESSICA.MCCALLUM@KIMLEY-HORN.COM EMAIL: DARREN.WOLTERSTORFF@KIMLEY-HORN.COM

OWNER: CRADLAN COMMERCIAL, LLLP 212 N. WAHSATCH AVE, SUITE 301 COLORADO SPRINGS, CO 80903 TEL: (719)-635-3200 CONTÀCT: JEFF MARK EMAIL: JMARK@LANDHUISCO.COM

> Add text: EDARP File #:

PPR2427



Know what's below. Call before you di

PREPARED BY:	A, LLC		its issue date and are	later time. Use of her project requires the	eers. Reproduction of Jject is not authorized.	REV DATE DESCRIPTION
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TITLE DR		DESCRIPTION				51028 NEC FONTAINE BLVD AND MARKSHEFFEL ROAD, COLORADO

## ENGINEERING CONSTRUCTION NOTES

- 1. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. THE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- 2. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING: SAFETY OF ALL PERSONS AND PROPERTY, AND THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
- 4. CONTRACTOR SHALL CONTACT UTILITY NOTIFICATION CENTER FOR THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION (1-800-922-1987).
- 5. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS AND BONDS PRIOR TO CONSTRUCTION.
- 7. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE
- 8. ALL PAVING. CONSTRUCTION. MATERIALS. AND WORKMANSHIP WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENT SHALL CONFORM TO THE CITY OF COLORADO SPRINGS'S SPECIFICATIONS AND STANDARDS. (LATEST EDITION)

9. CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS, AND ALL OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH MUTCD CONSTRUCTION AREA TRAFFIC CONTROL. ENGINEERING DEMOLITION NOTES

- ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER AND IN STRICT ACCORDANCE WITH OSHA REGULATIONS.
- 2. ALL CONDITIONS SHOWN TO BE "EXISTING" SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE NOTED AND SUBMITTED TO THE OWNER AND THE ENGINEER FOR REVIEW. CHANGES TO THE ORIGINAL DESIGN OF THIS PROJECT DUE TO EXISTING SITE CONDITIONS MUST BE APPROVED BY BOTH THE OWNER AND THE ENGINEER PRIOR TO MAKING ANY CHANGES.
- 3. THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION.
- 4. WHEN UTILITIES ARE REMOVED, CAP AND SEAL A MINIMUM OF 8" BELOW FINISH GRADE

### **ENGINEERING SITE NOTES**

- 1. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
- 2. CONTRACTOR SHALL MATCH PROPOSED CURB AND GUTTER, CONCRETE, AND PAVEMENT TO EXISTING GRADE AT ALL TIE IN LOCATIONS.
- 3. CONTRACTOR SHALL REMOVE PAVEMENT AND CONCRETE IN ACCORDANCE WITH SPECIFICATIONS OF EL PASO COUNTY AND/OR THE COLORADO STATE DEPARTMENT OF TRANSPORTATION.
- 4. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS AND ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
- 5. CONTRACTOR SHALL REFER TO BUILDING PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES, TO INCLUDE, SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, AND TELEPHONE SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED, AS WELL AS, COORDINATE WITH ANY UTILITY COMPANIES FOR APPROVED LOCATIONS AND SCHEDULING OF TIE-INS/CONNECTIONS TO THEIR FACILITIES.
- 6. CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO, OR BETTER THAN, EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION START.
- 7. CONTRACTOR TO REMOVE OR RELOCATE, WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, BASEMENTS, CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPES, POWER POLES, AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR NEW CONSTRUCTION AS SHOWN.

### ENGINEERING PAVING NOTES

- 1. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- 2. ALL CONCRETE SIDEWALKS SHALL HAVE CONTROL JOINTS CUT ON 5' CENTERS AND EXPANSION JOINTS PLACED ON 20' CENTERS. CONCRETE PAVEMENT JOINTS SHALL BE SPACED AT 12' CENTERS MAXIMUM.
- 3. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS.
- 4. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.

### ENGINEERING GRADING NOTES

- 1. CONTOURS ON SIDEWALKS AND PRIVATE/PUBLIC ROADWAYS ARE TO FINISH GRADE.
- 2. FOR GROUND TREATMENT OF ALL DISTURBED AREAS WITHIN THE PROJECT SITE, REFER TO LANDSCAPE PLANS
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- 4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL RE-GRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND OR OTHER FINAL LANDSCAPE PLANTING IS WELL ESTABLISHED.

### ENGINEERING DRAINAGE AND STORM WATER NOTES

- 1. ON-SITE STORM SEWER SYSTEM HAS BEEN PROVIDED TO MAINTAIN THE EXISTING DRAINAGE PATTERNS.
- 2. ALL ON-SITE STORM SEWER IS PRIVATE, UNLESS OTHERWISE NOTED.
- 3. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED. EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- 4. THE CONTRACTOR SHALL DE-SILT ALL DRAINAGE STRUCTURES AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- 5. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER PRIOR TO EXCAVATION.

## ENGINEERING GENERAL NOTES FOR CONTRACTOR

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE EL PASO COUNTY FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

19. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE OF THIS PROJECT.

PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY/COUNTY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT OR COLORADO DIVISION OF WILDLIFE. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.

20. THE AREA WHICH IS DEFINED AS A NON-GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED

22. IF AT ANY TIME DURING THE GRADING OPERATION, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED. GRADING IN THAT AREA SHALL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.

23. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS. THE CONTRACTOR SHALL TAKE ADDITIONAL CARE TO ENSURE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE WHILE MEETING MINIMUM AND MAXIMUM PAVEMENT SLOPES AS DEFINED IN THE CRITERIA.

24. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.

26. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN IN THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF THE PLANS. THE CITY OR COUNTY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES AND THE CITY WILL NOT BE HELD RESPONSIBLE FOR THEIR ENFORCEMENT.

APPROVAL OF THESE PLANS BY THE CITY/COUNTY DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.

THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY EL PASO COUNTY DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR COUNTY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.

NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.

CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITI CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING: SAFETY OF ALL PERSONS AND PROPERTY, AND THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES, STREETS, UTILITIES, AND STORM SEWERS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK AT 719-453-0180. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM HIS OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, TEMPORARY DESILTING BASINS, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER, AGENCY, OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.

7. EXCEPT AS NOTED HEREON ALL UTILITY SERVICES WITHIN THIS DEVELOPMENT ARE UNDERGROUND INSTALLATIONS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO STARTING WORK NEAR THEIR FACILITIES, AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES. FOR UTILITY MARK-OUT SERVICE, CALL 811.

THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ALL DAMAGES THERETO CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND STANDARDS AT THE EXPENSE OF THE CONTRACTOR.

9. LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.

10. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.

11. FOR ALL UTILITY TRENCHES, SOILS REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD BY A QUALIFIED SOILS ENGINEER WHICH CERTIFY THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH THE ON-SITE EARTHWORK SPECIFICATIONS.

12. ANY WORK DONE WITHOUT INSPECTION OR MATERIALS TESTING IS SUBJECT TO REMOVAL OR CORRECTION.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY DAMAGE TO THE EXISTING IMPROVEMENTS AND REPLACEMENT TO THE SATISFACTION OF THE FIELD ENGINEER.

14. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN CONDITIONS FOR GRADING, DRAINAGE AND UNDERGROUND FACILITIES, INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED

15. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE PLANS, THE SOILS AND/OR GEOLOGY REPORTS AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK.

16. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS OR IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AT KIMLEY-HORN BEFORE PROCEEDING WITH THE WORK IN QUESTION.

18. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS THE COUNTY ENGINEER APPROVES A CONSTRUCTION CHANGE OR THE COUNTY/AGENCY INSPECTOR REQUIRES THE CHANGE.

21. NOTES AND DETAILS DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

25. DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE NOTED.

27. ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF.

28. SPOT GRADES ARE TO FLOWLINE OR FINISH PAVEMENT GRADE UNLESS OTHERWISE NOTED.

29. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM. 30. WATER SHALL BE PROVIDED ONSITE AND USED TO CONTROL DUST DURING DEMOLITION AND CONSTRUCTION OPERATIONS.

31. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.

32. RETAINING WALLS LOCATED CLOSER TO THE PROPERTY LINE THAN THE HEIGHT OF THE WALL SHALL BE BACKFILLED NOT LATER THAN 10 DAYS AFTER CONSTRUCTION OF THE WALL AND NECESSARY STRUCTURAL SUPPORTING MEMBERS UNLESS RECOMMENDED OTHERWISE BY RESPONSIBLE ENGINEER.

## STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- ON-SITE WATERS, INCLUDING WETLANDS.

- TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- COMPLETION OF THE DISTURBANCE.

- PERMIT CLOSURE.
- ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- AND APPROVED.
- OF THE CONTROL MEASURE(S).
- SEDIMENT OFF SITE.
- SURFACE WATER BODY, CREEK, OR STREAM.

- AND PROPERLY DISPOSED OF IMMEDIATELY.
- APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- CHEMICAL(S). SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- CONTROL MEASURES.
- APPLY.
- 26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- FROM EARTHWORK EQUIPMENT AND WIND.
- THESE PLANS.
- INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION WQCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY

2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED IN WRITING

A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS IN THE FIELD. 4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUES, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT 5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER.

CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON

ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.

FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLAN DENSITY OF 70% OF PRE-DISTURBED LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE

ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BE THE

10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED

COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION

12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF

13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A

14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE. 15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.

17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.

18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP

19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS, AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER

20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN

21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH

22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES. 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT

24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL

25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.

27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST 28. THE GEOTECHNICAL EVALUATION FOR THIS SITE HAS BEEN PREPARED BY CTL THOMPSON, INC AND SHALL BE CONSIDERED A PART OF

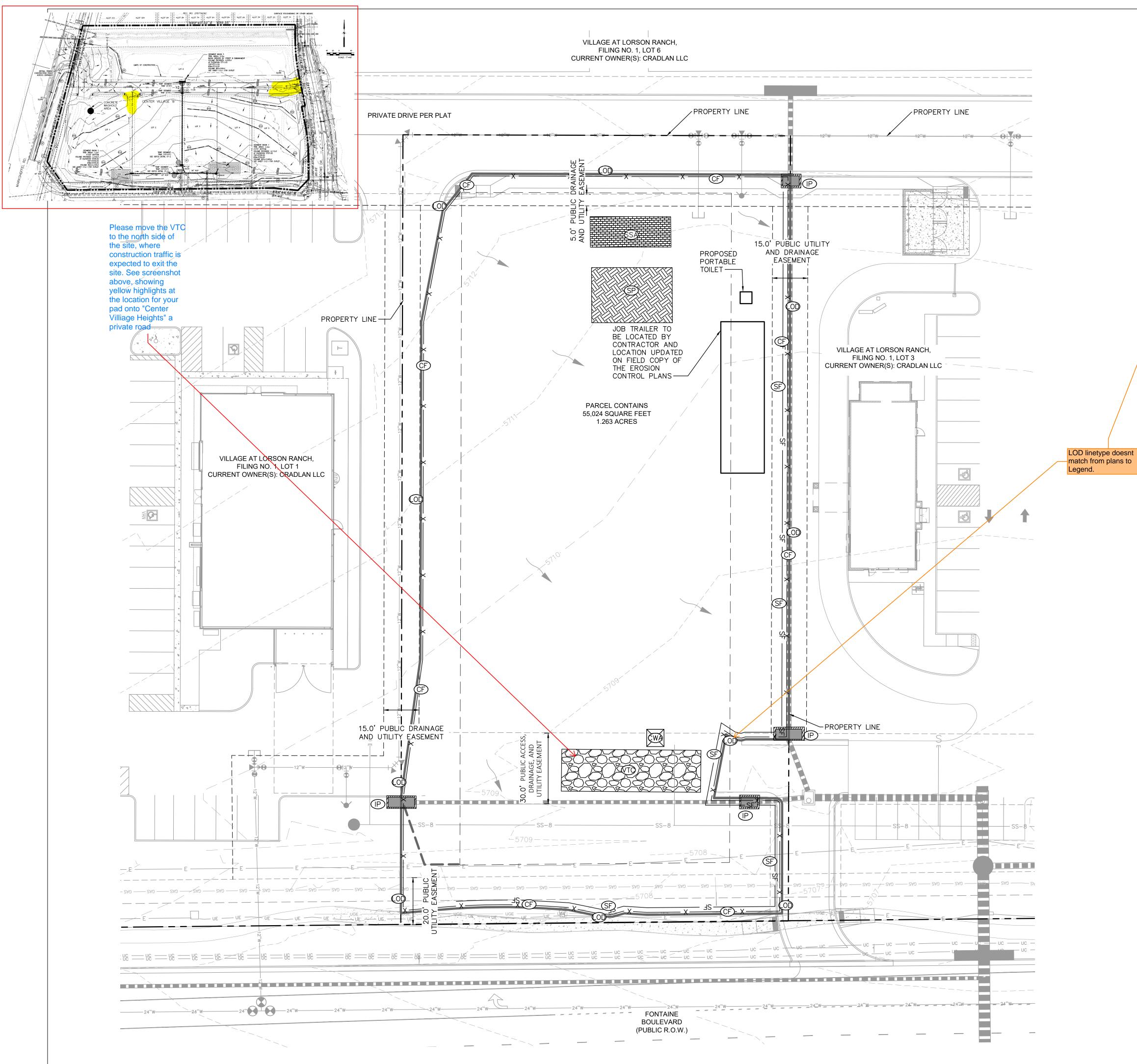
29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OF MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION, THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR

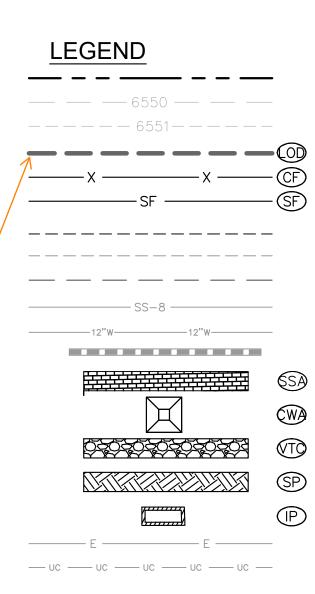
https://cdphe.colorado.gov/cor400000-stormwater-discharge

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PROPOSED SETBACKS EXISTING SANITARY SEWER EXISTING WATER LINE EXISTING STORM SEWER PIPE STABILIZED STAGING AREA

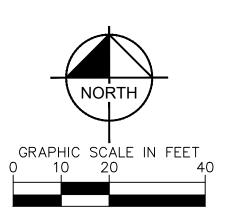
CONCRETER WASHOUT ON TROL

SP SOIL STOCKPILE

INLET PROTECTION EXISTING ELECTRIC LINE EXISTING UNDERGROUND COMMUNICATION LINE

### NOTES

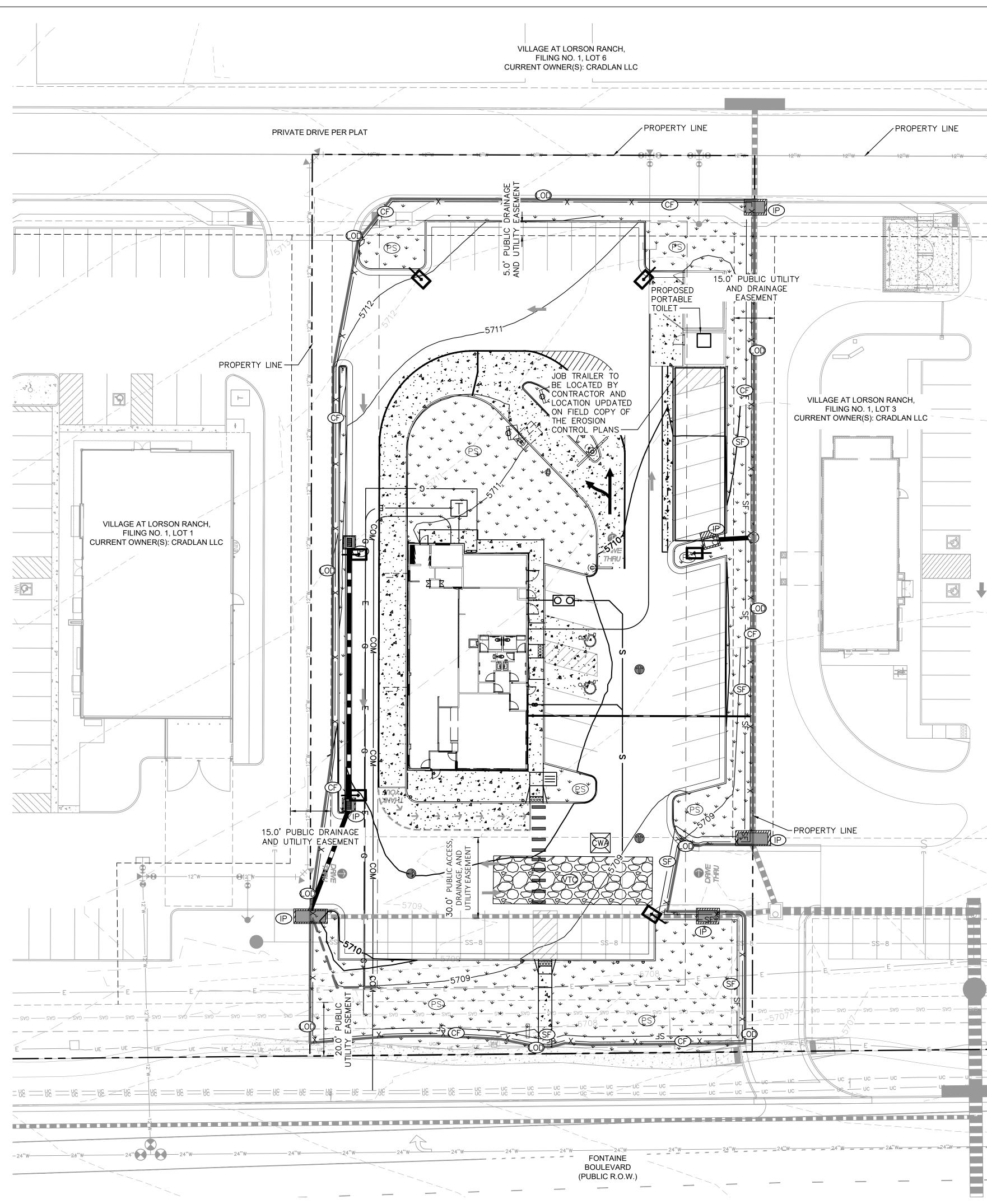
- 1. THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS.
- 2. ADJACENT STREETS AND SIDEWALK SHALL BE KEPT CLEAN AND FREE OF SEDIMENT AND/OR DEBRIS AT ALL TIMES. CONTRACTOR SHALL PERFORM STREET SWEEPING AT ALL TIMES DURING ACTIVE TRACKING AND AT A MINIMUM ON A DAILY BASIS AT THE END OF EACH CONSTRUCTION DAY.
- 3. TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
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- 5. CONTRACTOR SHALL UTILIZE ROLLED EROSION CONTROL PRODUCTS ON ALL SLOPES 3H:1V OR GREATER TO ACHIEVE REQUIRED STABILIZATION. 6. CONTRACTOR SHALL MAINTAIN ACCEPTABLE EROSION CONTROL
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- 7. ALL WORK IN THE FONTAINE BOULEVARD ROW REQUIRES A ROW PERMIT FROM COLORADO SPRINGS. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL NECESSARY ROW PERMITS.
- 8. CONTRACTOR SHALL REFER TO THE APPROVED GEOTECHNICAL REPORT FOR OVEREXCAVATION REQUIREMENTS AND ADDITIONAL INFORMATION.
- 9. SILT FENCE TO BE INSTALLED PRIOR TO COMMENCEMENT OF ONSITE GRADING AND CONSTRUCTION ACTIVITIES.
- 10. DEMOLITION, REMOVAL AND SOIL TREATMENT SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATIONS AS NOTED IN THE APPROVED PROJECT GEOTECHNICAL REPORT.
- 11. CONTRACTOR TO NOTE PROXIMITY OF EXISTING IMPROVEMENTS ADJACENT TO THE SITE AND PROVIDE NECESSARY MEASURES TO PROTECT ALL FACILITIES AND STRUCTURES IN PLACE.
- 12. CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPS AS EXCAVATION SEQUENCING DICTATES.
- 13. CONTRACTOR MAY SUBSTITUTE SEDIMENT CONTROL LOGS (SCL) FOR SILT FENCE (SF) AS PERIMETER CONTROL, DEPENDING UPON SITE CONDITIONS. SCL, AND SF MAY BE INTERCHANGED DEPENDING ON SITE CONDITIONS. 14. CONTRACTOR SHALL OBTAIN R.O.W. PERMITS FOR ANY R.O.W. CLOSURES.
- 15. SEE FINAL LANDSCAPING PLAN IN THE SITE DEVELOPMENT PLAN FOR FINAL STABILIZATION MEASURES.



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\_\_\_\_\_\_ PROPERTY LINE PROPERTY LINE  $+\!\!+-\!\!--\!\!--$ 15.0' PUBLIC UTILITY AND DRAINAGE PROPOSED EASEMENT PORTABLE TOILET ------· • • JOB TRAILER TO BE LOCATED BY CONTRACTOR AND VILLAGE AT LORSON RANCH, LOCATION UPDATED FILING NO. 1, LOT 3 ON FIELD COPY OF CURRENT OWNER(S): CRADLAN LLC THE EROSION CONTROL PLANS-B Ð | 二字二| " (PS)" -PROPERTY LINE \_\_\_\_ - 573 -. \_\_\_\_ uc \_\_\_\_\_ uc \_\_\_\_ – UC – — UC — UC — \_ -24''W - 24''W - 24'FONTAINE BOULEVARD (PUBLIC R.O.W.)

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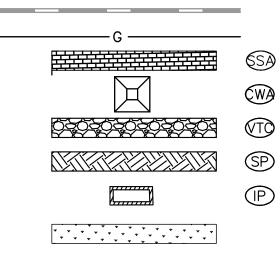
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FILING NO. 1, LOT 6

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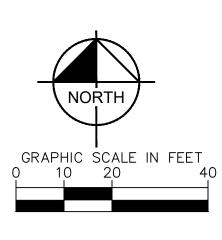
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PROPERTY LINE
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PROPOSED MAJOR CONTOUR
PROPOSED MINOR CONTOUR
LIMITS OF CONSTRUCTION/DISTURBANCE
SILT FENCE
EASEMENT EXISTING SANITARY SEWER
EXISTING WATER LINE
EXISTING STORM SEWER PIPE
PROPOSED GAS LINE
STABILIZED STAGING AREA
CONCRETE WASHOUT
VEHICLE TRACKING CONTROL
SOIL STOCKPILE
INLET PROTECTION
FINAL STABILIZATION. (REFERENCE FINAL LANDSCAPING PLANS)

## NOTES

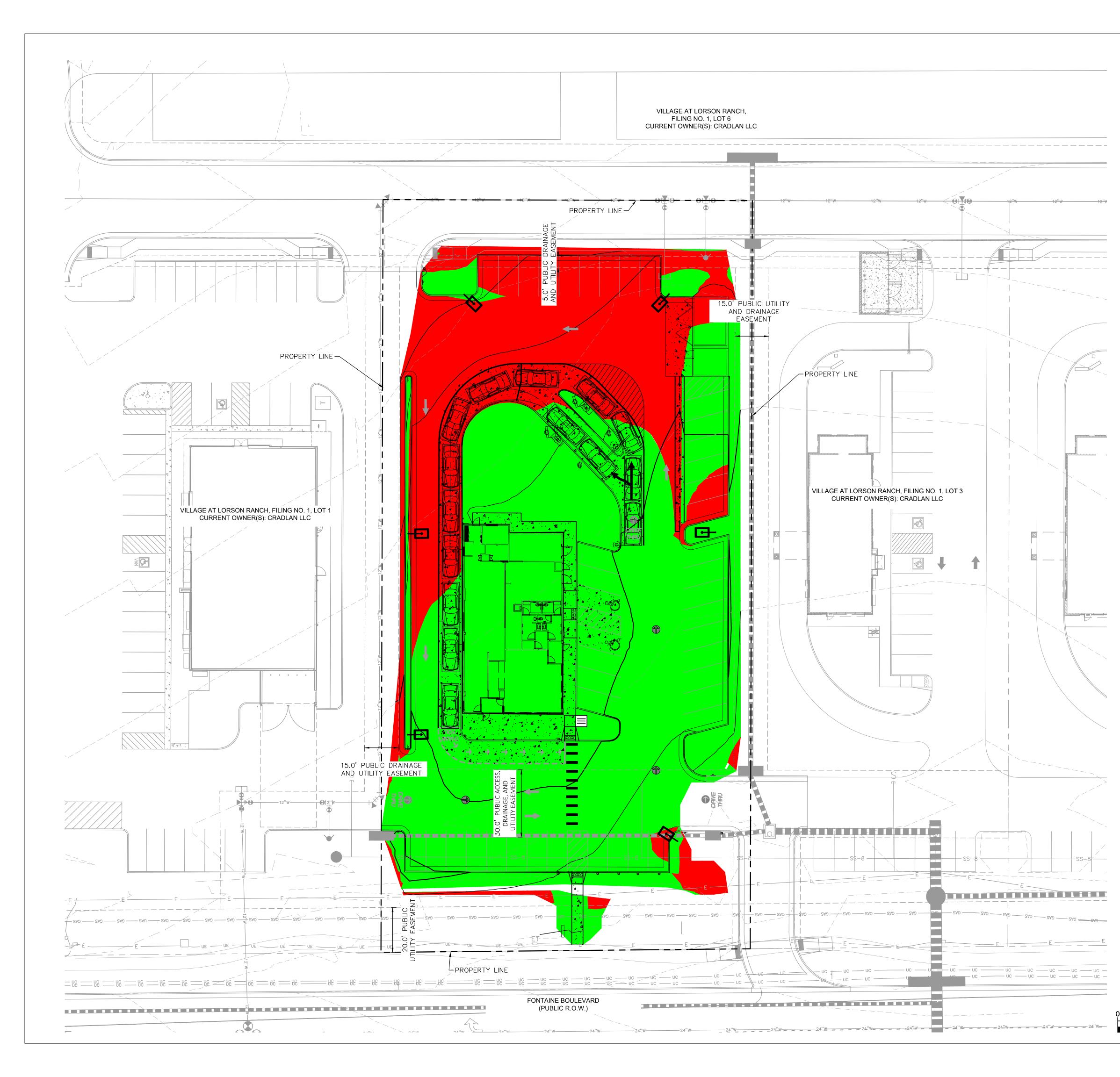
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PREPARED BY:							
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Ъ	ALS STD ISSUE DATE	7/30/2024	REVIEWED BY	MUL	DATE ISSUED 7/30/2024		
ППСЕ	CONSTRUCTION DRAWINGS		DESCRIPTION			SITE ADDRESS	51028 NEC FONTAINE BLVD AND MARKSHEFFEL ROAD, COLORADO
	DRAWN BY PREPARED FOR:	WINGS STIF PATE FOR: © MCDONALD'S USA. LLC	NSTRUCTION DRAWINGS 7/30/2024 These dravings and specifications are the confidential and provision	WINGS ALS ALS ALS T/30/2024 REVIEWE BY REVIEWE BY PREPARED FOR: () MCDONAId'S USA, LLC These drawings and specifications are the confidential and proprietary REVIEWE BY PREPARED BY: PREPARED BY: PRE	DRAWN BY       DRAWN BY       PREPARED FOR:       ©         ALS       ALS       STD ISSUE DATE       T/30/2024         7/30/2024       T/30/2024       These drawings and specifications are the confidential and proprietary property of MCDonald's USA, LLC and shall not be copied or reproduced without written authorization. The contract documents were prepared documents were prepared and are pre	DRAWN BY       PREPARED FOR:       Image: Construction of the construction with its issue date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the construction of the contract drawings for reference or example on another project requires the construct or another project requires the contract drawings for reference or example on another project requires the construct or the contract or example on another project requires the construct or the contract or example on another project requires the contract or example or another project or example or another project or example o	DRAWN BY       DRAWN BY       REPARED FOR:       Image       Image </th



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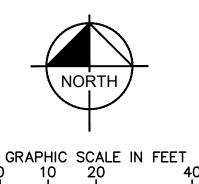
## LEGEND

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	—12"W—		—12"W——		EXISTING	WATER LINE	

## CUT FILL SUMMARY

PROPOSED CUT = 128 CY
PROPOSED FILL = $698$ CY
NET = 570 CY

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STD ISSUE DATE 7/30/2024	REVIEWED BY JJM	DATE ISSUED 7/30/2024	L ROAD, COLORADO
		CUT FILL PLAN	SITE ID SITE ADDRESS 51028 SPRINGS, CO
	CONSTRUCTION DRAWINGS 7/30/2024 THIS CONSTRUCTION DRAWINGS	CONSTRUCTION DRAWINGS       ALS       ALS       MCDOnald's USA, LLC         7/30/2024       7/30/2024       These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without written authorization. The contract documents were prepared for use on this secific site in conjunction with its issue date and ore	ALS     ALS     ALS       CONSTRUCTION DRAWINGS     STD ISSUE DATE     MCDONAId'S USA, L       7/30/2024     T/30/2024     These drawings and specifications are the confidential and post       DESCRIPTION     REVIEWED BY     These drawings and specifications are the confidential and post       UN     JUM     Property of McDonald's USA, LLC and shall not be copied or JUM       DESCRIPTION     DIM     Property of McDonald's USA, LLC and shall not be copied or JUM       DIM     DIM     Property of McDonald's USA, LLC and shall not be copied or JUM       DIM     DIM     Property of McDonald's USA, LLC and shall not be copied or JUM       DIM     DIM     Property of McDonald's USA, LLC and shall not be copied or JUM       DIM     DIM     Property of McDonald's USA, LLC and shall not be copied or JUM       DIM     DIM     Property of McDonald's USA, LLC and shall not be copied or JUM       DIA     DIA     Property of McDonald's USA, LLC and shall not be copied or JUM       DIA     DIA     Property of McDonald's USA, LLC and shall not be copied or JUM       DIA     DIA     Property of McDonald's USA, LLC and shall not be copied or JUM       DIA     DIA     Property of McDonald's USA, LLC and shall not be copied or JUM       DIA     DIA     Property of McDonald's USA, LLC and shall not be copied or JUM       DIA     DIA     Property of McDonald's USA





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### **Concrete Washout Area (CWA)**

### Description

Concrete waste management involves designating and properly managing a specific area of the construction site as a concrete washout area. A concrete washout area can be created using one of several approaches designed to receive wash water from washing of tools and concrete mixer chutes, liquid concrete waste from dump trucks, mobile batch mixers, or pump trucks. Three basic approaches are available: excavation of a pit in the ground, use of an above ground storage area, or use of prefabricated haulaway concrete washout containers. Surface discharges of concrete washout



**MM-1** 

water from construction sites are prohibited. Photograph CWA-1. Example of concrete washout area. Note gravel tracking pad for access and sign.

### Appropriate Uses

Concrete washout areas must be designated on all sites that will generate concrete wash water or liquid concrete waste from onsite concrete mixing or concrete delivery.

Because pH is a pollutant of concern for washout activities, when unlined pits are used for concrete washout, the soil must have adequate buffering capacity to result in protection of state groundwater standards; otherwise, a liner/containment must be used. The following management practices are recommended to prevent an impact from unlined pits to groundwater:

- The use of the washout site should be temporary (less than 1 year), and
- The washout site should be not be located in an area where shallow groundwater may be present, such as near natural drainages, springs, or wetlands.

### **Design and Installation**

Concrete washout activities must be conducted in a manner that does not contribute pollutants to surface waters or stormwater runoff. Concrete washout areas may be lined or unlined excavated pits in the ground, commercially manufactured prefabricated washout containers, or aboveground holding areas constructed of berms, sandbags or straw bales with a plastic liner.

Although unlined washout areas may be used, lined pits may be required to protect groundwater under certain conditions.

Urban Drainage and Flood Control District

Urban Storm Drainage Criteria Manual Volume 3

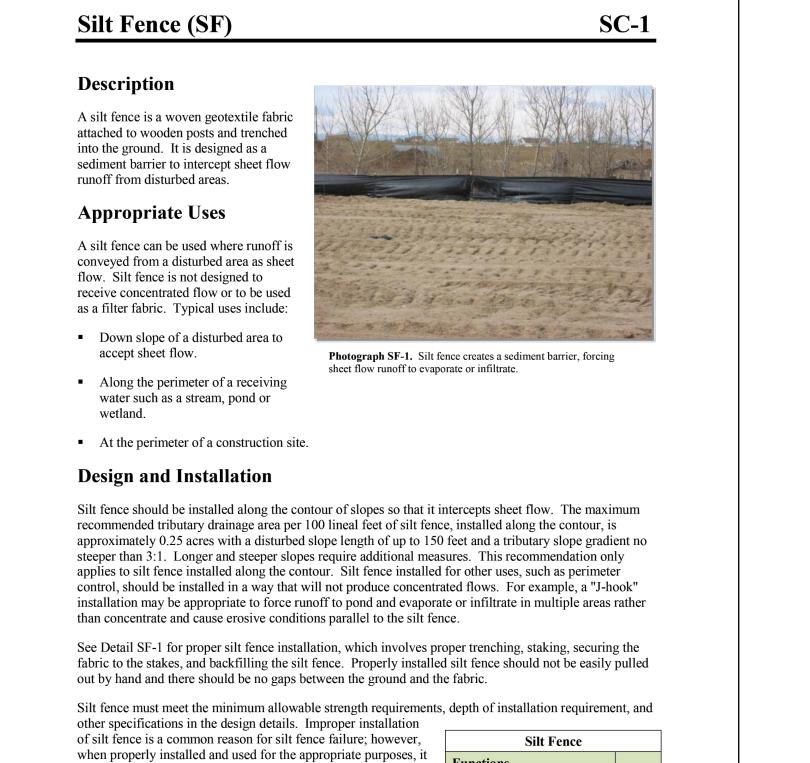
Do not locate an unlined washout area within 400 feet of any natural drainage pathway or waterbody or within 1,000 feet of any wells or drinking water sources. Even for lined concrete washouts, it is advisable to locate the facility away from waterbodies and drainage paths. If site constraints make these

November 2010

can be highly effective.

<b>Concrete Washout Area</b>						
Functions						
Erosion Control	No					
Sediment Control	No					
Site/Material Management	Yes					

CWA-1



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	Urban Storm Drainage Criteria Manual Volume 3	

Functions

Erosion Control

Sediment Control

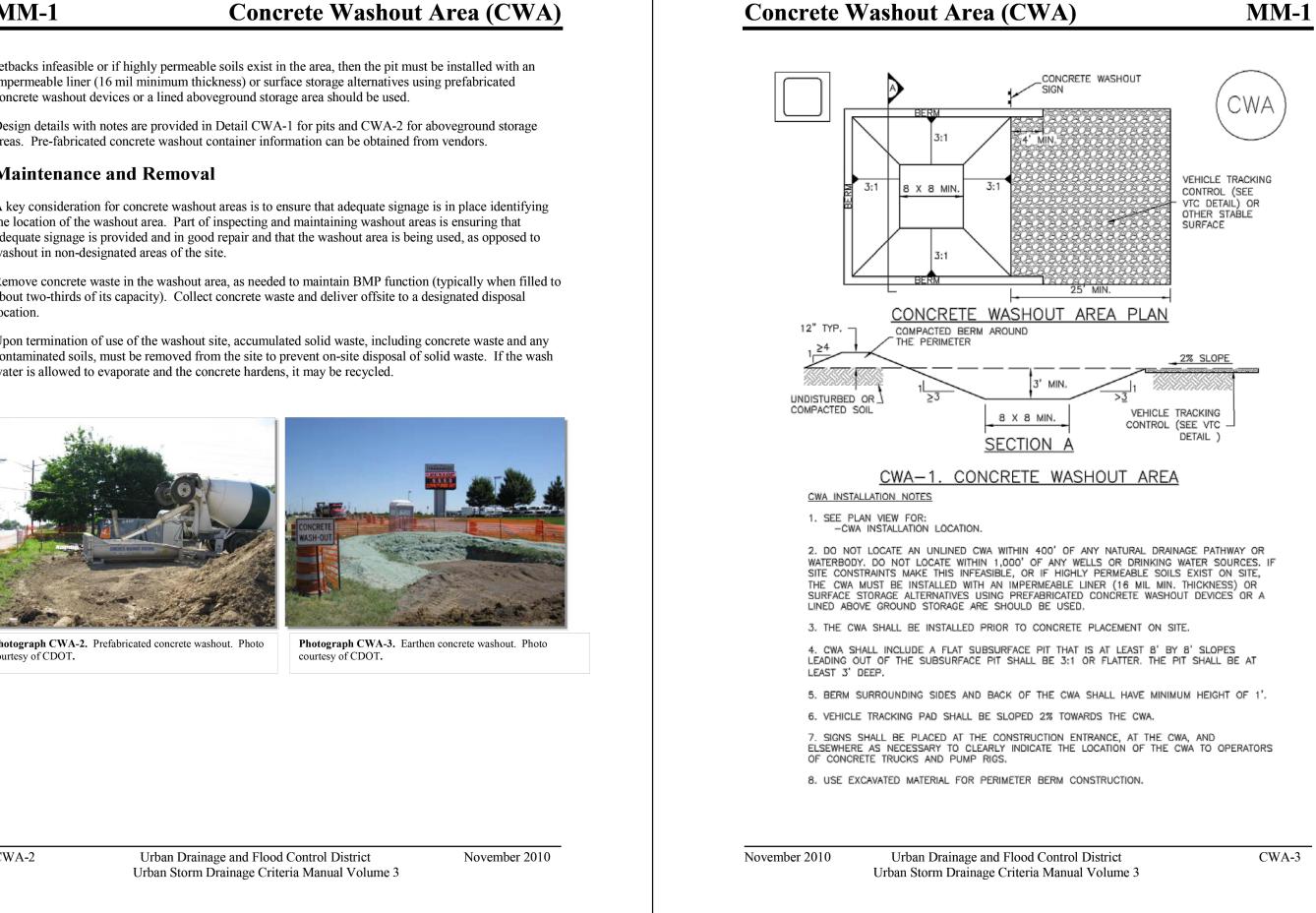
Site/Material Management

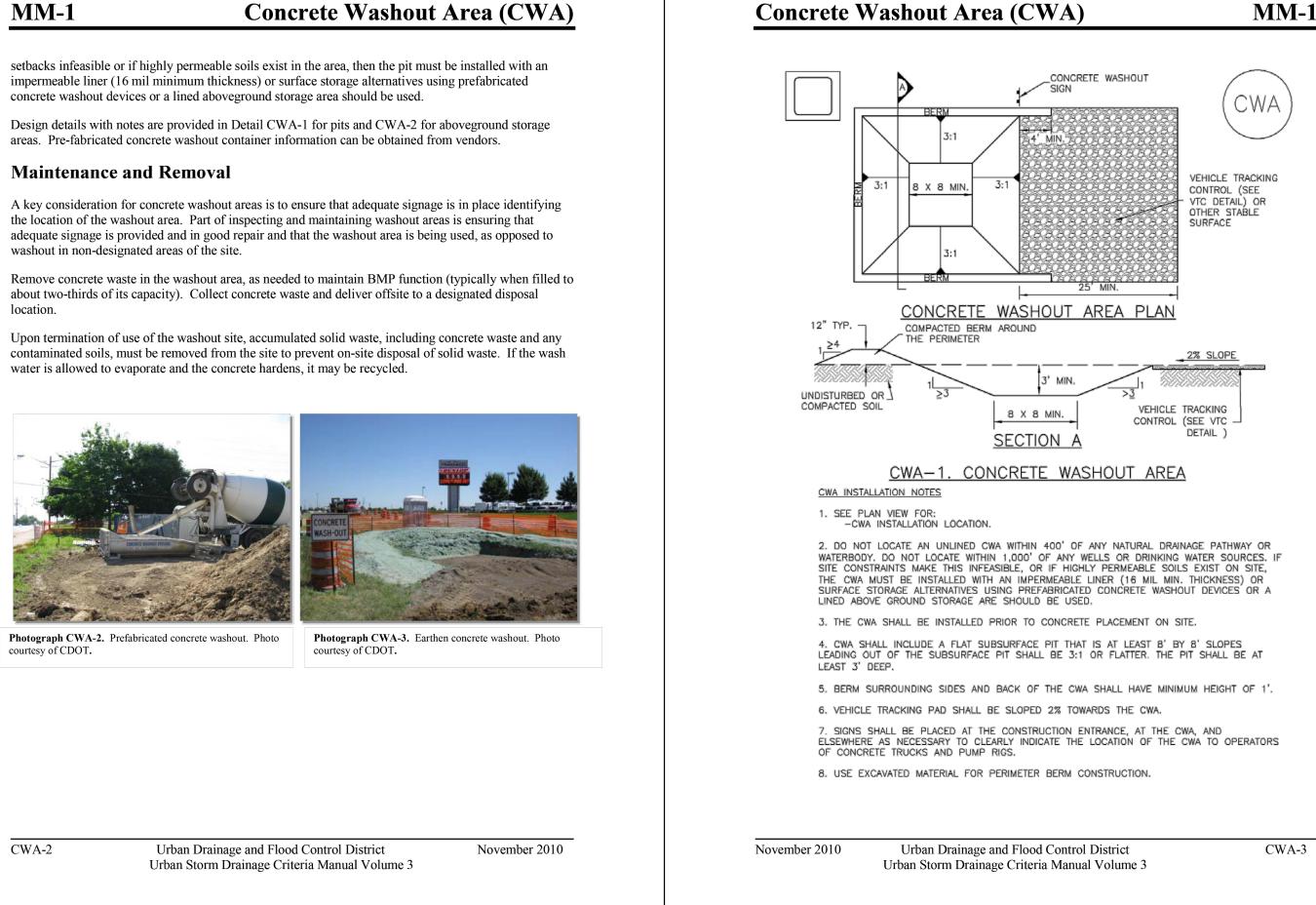
No

Yes

No

### Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3





**SC-1** 

### Maintenance and Removal

Inspection of silt fence includes observing the material for tears or holes and checking for slumping fence and undercut areas bypassing flows. Repair of silt fence typically involves replacing the damaged section with a new section. Sediment accumulated behind silt fence should be removed, as needed to maintain BMP effectiveness, typically before it reaches a depth of 6 inches.

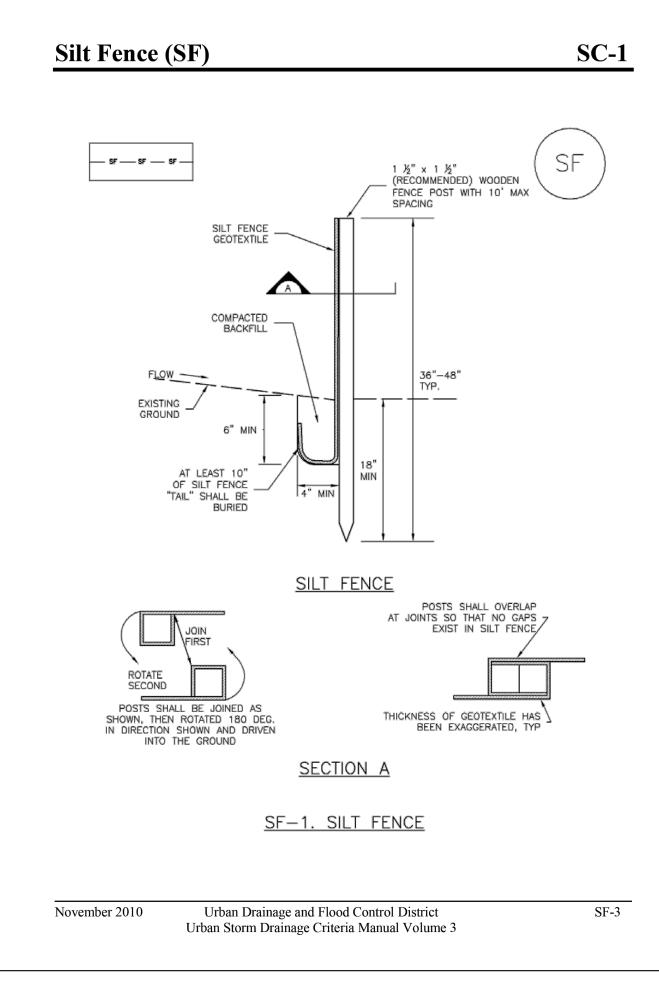
Silt fence may be removed when the upstream area has reached final stabilization.





Photograph SF-2. When silt fence is not installed along the contour, a "J-hook" installation may be appropriate to ensure that the BMP does not create concentrated flow parallel to the silt fence. Photo courtesy of Tom

November 2010



MM-	1 Concrete Washout Area (CWA)	
<u>MM-</u>	<ol> <li>Concrete Washout Area (CWA)</li> <li>INSPECT BMPS EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPS SHOULD BE PROACTIVE, NOT REACTIVE, INSPECT BMPS AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE ERGSION, AND PERFORM NECESSARY MAINTENANCE.</li> <li>REQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPS IN EFFECTIVE OPERATING CONDITION, INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.</li> <li>HERRE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.</li> <li>HERRE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.</li> <li>CONCRETE WASTEL CONCRETE MATERNALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERNALS HAVE REACHED A DEPH OF 2'.</li> <li>CONCRETE WASTEL CONCRETE MATERNALS ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERNALS HAVE REACHED A DEPH OF 2'.</li> <li>CONCRETE WASTEL DISCOVERT THE DISTURBED ARE MUTH TOP SOLIT SI PLACED.</li> <li>MIETR SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT UNTER SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT.</li> <li>MIETR MAD DISPOSED OF PROPERLY.</li> <li>THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.</li> <li>MIET THE CWAI SI REMOVED, COVER THE DISTURBED AREA WITH TOP SOLIT SIDICTON.</li> <li>MIETA HAVE DISPOSIED OF INFORMATE APPROVED BY THE LOCAL JURISDICTION.</li> <li>MIETA MAD DISPOSIED OUTHER MARTE APPROVED BY THE LOCAL JURISDICTION.</li> <li>MIETA MAD DISPOSIED OUTH A MAINTER APPROVED BY THE LOCAL JURISDICTION.</li> <li>MIETA MAD DISPOSIED OUTH A MAINTER APPROVED BY THE LOCAL JURISDICTION.</li> <li>MIETA MAD DISPOSIED OUTH A MAINTER APPROVED BY THE LOCAL JURISDICTION.</li> <li>MIETA MAD DISPOSIED OUTH A MAINTER APPROVED BY THE LOCAL JURISDICTION.</li> <li>MIETA MAD DISPOSIED OUTH A MAINTER APPROVED BY THE LOCAL JU</li></ol>	
		Kimley »Horn
CWA-4	Urban Drainage and Flood Control District November 2010 Urban Storm Drainage Criteria Manual Volume 3	PREPARED BY:
	SULT FENCE INSTALLATION NOTES SULT FENCE INSTALLATION NOTES I. SILT FENCE INSTALLATION NOTES I. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING, SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING, SILT FENCE, AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING, SILT FENCE, AT THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING, AND DEPOSITION. 2. A UNFORM 6° X 4° ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL E USED. 3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING, COMPACTON SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR E ON ONTOCRABLE SANG BETWEEN STARES AFTER IT HAS BEEN ANCHORED TO THE STAKES. THERE SHOULD E E NO NOTICEABLE SANG BETWEEN STARES AFTER IT HAS BEEN ANCHORED TO THE STAKES. THERE SHOULD ES INT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1° HEAVY DUTY STAPLES OR NALLS WITH 1° HEADS. STAPLES AND NAILS SHOULD BE PLACED 3° ALONG THE FABRIC SOUNT THE STAKE. 5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1° HEAVY DUTY STAPLES OR NALLS WITH 1° HEADS. STAPLES AND NAILS SHOULD BE PLACED 3° ALONG THE FABRIC DOWN THE STAKE.	FOR: © MCDDDAJd'S USA, LLC MCDDDAJd'S USA, LLC MCDDDAJd'S USA, LLC of McDonald's USA, LLC and shall not be copied or reproduced written authorization. The contract documents were prepared written authorization. The contract documents were prepared on this specific site in conjunction with its issue date and are been appendent of the or the order of the order
CWA-4	SILT FENCE INSTALLATION NOTES  SILT FENCE INSTALLATION NOTES  SILT FENCE INSTALLATION NOTES  SILT FENCE INSTALLATION NOTES  SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING, SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2–5 FT) FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING SILT FENCE ATTHE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2–5 FT) FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING STALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR ECONFACTION SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES. S. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAFLES OR NALISWITH 1" HEADS, STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE. S. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PREPRODICULAR TO THE COLOUR TO CREATE A "J-HOOK"	FOR: © MCDDDAJd'S USA, LLC MCDDDAJd'S USA, LLC MCDDDAJd'S USA, LLC of McDonald's USA, LLC and shall not be copied or reproduced written authorization. The contract documents were prepared on this specific site in conjunction with its sisue date and are provided of the contract of the time of the

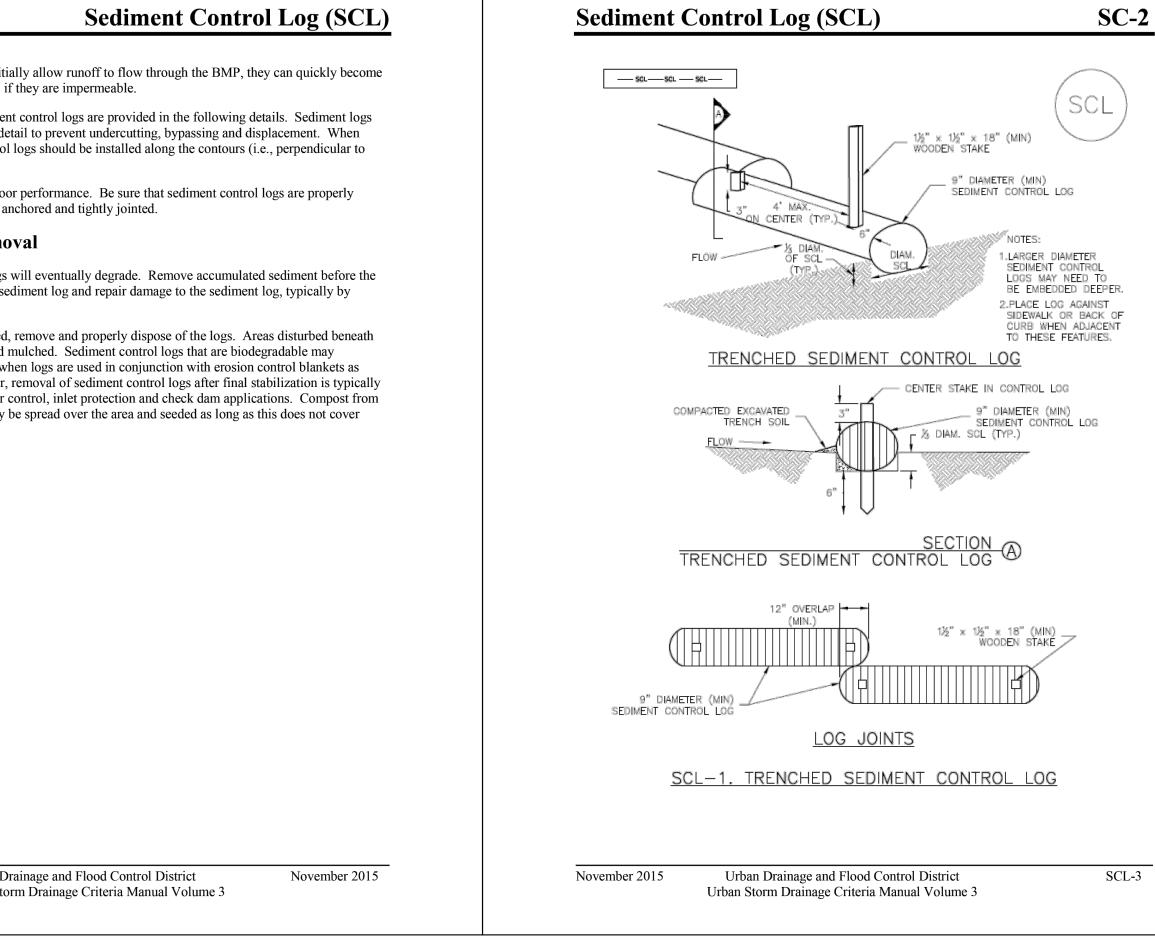


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C2.6

Sediment Control Lo	g (SCL)	SC-2	<b>SC-2</b>
<ul> <li>Description</li> <li>A sediment control log is a linear roll made of natural materials such as straw, coconut fiber, or compost. The most common type of sediment control log has straw filling and is often referred to as a "straw wattle." All sediment control logs are used as a sediment barrier to intercept sheet flow runoff from disturbed areas.</li> <li>Appropriate Uses</li> <li>Sediment control logs can be used in the following applications to trap sediment:</li> <li>As perimeter control for stockpiles and the site.</li> <li>As part of inlet protection designs.</li> <li>As check dams in small drainage</li> </ul>	<image/>		Although sediment contr a barrier and should be in Design details and notes must be properly installe installed on slopes, sedim flow). Improper installation can trenched (if lighter than a <b>Maintenance an</b> Be aware that sediment of depth is one-half the heig replacing the damaged se Once the upstream area i the logs may need to be a occasionally be left in pla permanent slope breaks), appropriate when used in compost sediment contro
<ul> <li>ditches. (Sediment control logs are not intended for use in channels with high flow velocities.)</li> <li>On disturbed slopes to shorten flow lengths (as an erosion control).</li> </ul>	I along the contour to avoid concentrating lineal feet of sediment control log, insta d slope length of up to 150 feet and a tri bes require additional measures. This red along the contour. When installed for of n a way that will not e, a "J-hook" unoff to pond and ather than concentrate	ad, 2) as a "J-hook" stream, pond or wetland. sediment controls. ag flows. The maximum alled along the contour, is butary slope gradient no commendation only other uses, such as	
	Site/Material	Management No	
Urban Storm Dra	nge and Flood Control District ainage Criteria Manual Volume 3	SCL-1	SCL-2
Urban Storm Dra Sediment Control Lo	ainage Criteria Manual Volume 3	SCL-1 SC-2	SCL-2 SC-2
Sediment Control Lo	g (SCL)	SC-2	SC-2 SEDIMENT CONTROL 1. SEE PLAN VIEW 2. SEDIMENT CONT TO ANY UPGRADIEN 3. SEDIMENT CONT FIBER, AND SHALL HOLES AND OBVIOU 4. SEDIMENT CONT FIBER, AND SHALL HOLES AND OBVIOU 4. SEDIMENT CONT HOWEVER, THEY SH 5. IT IS RECOMMEN A DEPTH OF APPR DEPTH IS NOT FEA DAMAGE LANDSCAPI STAKING. COMPOST 6. THE UPHILL SID FILTER MATERIAL TH COMPACTED INTO T ROLLER OR BLOWN 7. FOLLOW MANUF/ DO NOT SPECIFY S MINIMUM OF 6" INT THE LOG, STAKES LOGS SHOULD BE SEDIMENT CONTROL 1. INSPECT BMPs I MAINTENANCE OF E POSSIBLE (AND ALI EROSION, AND PEF 2. FREQUENT OBSE EFFECTIVE OPERATI DOCUMENTED THOR 3. WHERE BMPs H DISCOVERY OF THE
Sediment Control Lo	g (SCL)	SC-2	SC-2 SEDIMENT CONTROL 1. SEE PLAN VIEW 2. SEDIMENT CON TO ANY UPGRADIE 3. SEDIMENT CON TO ANY UPGRADIE 3. SEDIMENT CON TO ANY UPGRADIE 3. SEDIMENT CON FIBER, AND SHALL HOLES AND OBVIO 4. SEDIMENT CON HOWEVER, THEY S 5. IT IS RECOMME A DEPTH OF APPI DEPTH IS NOT FE DAMAGE LANDSCAT STAKING, COMPOS 6. THE UPHILL SII FILTER MATERIAL T COMPACTED INTO ROLLER OR BLOW 7. FOLLOW MANUF DO NOT SPECIFY MINIMUM OF 6" IN THE LOG, STAKES LOGS SHOULD BE SEDIMENT CONTROL 1. INSPECT BMPs MAINTENANCE OF POSSIBLE (AND AL EROSION, AND PE 2. FREQUENT OBS EFFECTIVE OPERAT DOCUMENTED THO 3. WHERE BMPs 1

Urban Storm Drainage Criteria Manual Volume 3



## Sediment Control Log (SCL)

ALLATION NOTES

TION AND LENGTH OF SEDIMENT CONTROL LOGS.

THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR ISTURBING ACTIVITIES.

SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS,

MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. BE USED IN PERENNIAL STREAMS.

SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO & OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS 'OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO R TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST T ARE 8 LB/FT DO NOT NEED TO BE TRENCHED.

SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR E OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN

GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS AKES SHALL BE PLACED ON 4" CENTERS AND EMBEDDED A DUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST ' ON CENTER.

TENANCE NOTES DAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. LD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS N 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE ESSARY MAINTENANCE.

AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN ON. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

PSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED  $\frac{1}{2}$  OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.

### HALL BE REMOVED AT THE END OF CONSTRUCTION.COMPOST LEFT IN PLACE AS LONG AS BAGS ARE REMOVED AND THE AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH CHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY

KER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AVAILABLE IN AUTOCAD) AVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

November 2015

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## Inlet Protection (IP)

### Description

Inlet protection consists of permeable barriers installed around an inlet to filter runoff and remove sediment prior to entering a storm drain inlet. Inlet protection can be constructed from rock socks, sediment control logs, silt fence, block and rock socks, or other materials approved by the local jurisdiction. Area inlets can also be protected by over-excavating around the inlet to form a sediment trap.

### **Appropriate Uses**

Install protection at storm sewer inlets that are operable during construction.

Consider the potential for tracked-out sediment or temporary stockpile areas to contribute sediment to inlets when determining which inlets must be protected. This may include inlets in the general proximity of the construction area, not limited to downgradient inlets. Inlet protection is <u>not</u> a stand-alone BMP and should be used in conjunction with other upgradient BMPs.

Photograph IP-1. Inlet protection for a curb opening inlet.

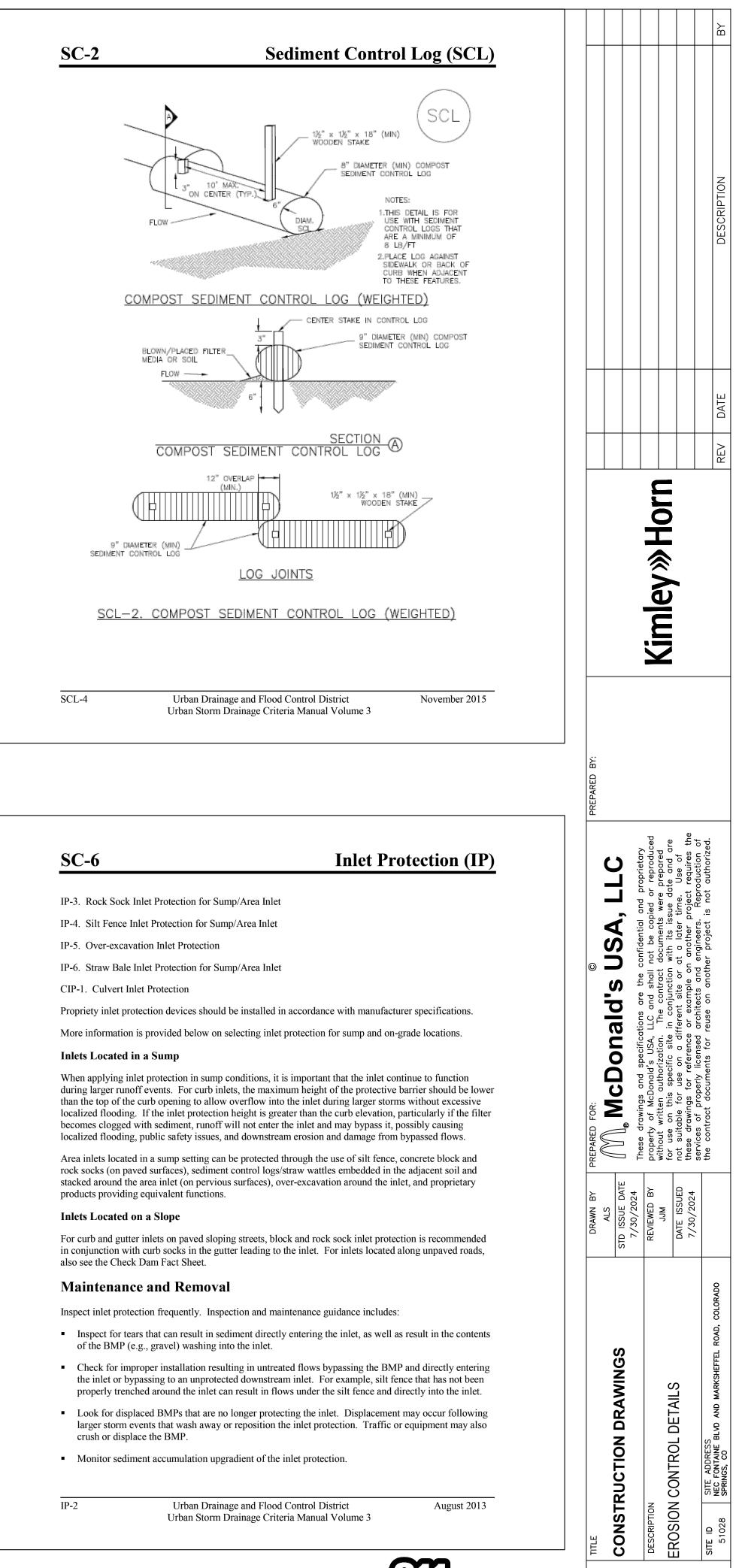
### **Design and Installation**

To function effectively, inlet protection measures must be installed to ensure that flows do not bypass the inlet protection and enter the storm drain without treatment. However, designs must also enable the inlet to function without completely blocking flows into the inlet in a manner that causes localized flooding. When selecting the type of inlet protection, consider factors such as type of inlet (e.g., curb or area, sump or on-grade conditions), traffic, anticipated flows, ability to secure the BMP properly, safety and other site-specific conditions. For example, block and rock socks will be better suited to a curb and gutter along a roadway, as opposed to silt fence or sediment control logs, which cannot be properly secured in a curb and gutter setting, but are effective area inlet protection measures.

Several inlet protection designs are provided in the Design Details. Additionally, a variety of proprietary products are available for inlet protection that may be approved for use by local governments. If proprietary products are used, design details and installation procedures from the manufacturer must be followed. Regardless of the type of inlet protection selected, inlet protection is most effective when combined with other BMPs such as curb socks and check dams. Inlet protection is often the last barrier before runoff enters the storm sewer or receiving water.

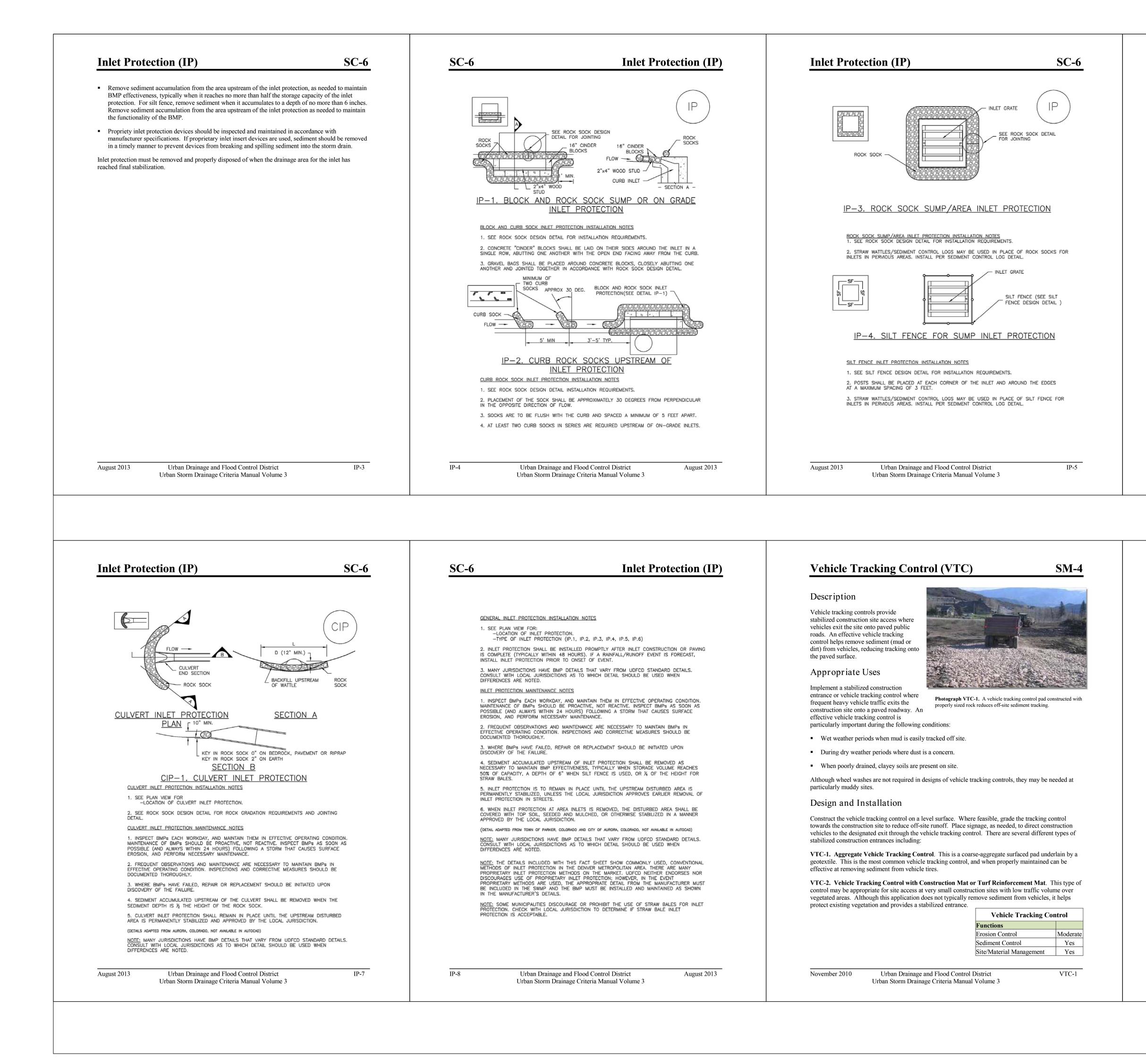
Design details with protection:	notes are provided for these forms of inlet	Inlet Protection (various forms)	
		Functions	
IP-1. Block and Ro Inlets	ock Sock Inlet Protection for Sump or On-grade	Erosion Control	No
milets		Sediment Control	Yes
IP-2. Curb (Rock)	Socks Upstream of Inlet Protection, On-grade	Site/Material Management	No
Inlets			
August 2013	Urban Drainage and Flood Control Distri	ct	IP-1
-	Urban Storm Drainage Criteria Manual Volu	ime 3	

**SC-6** 

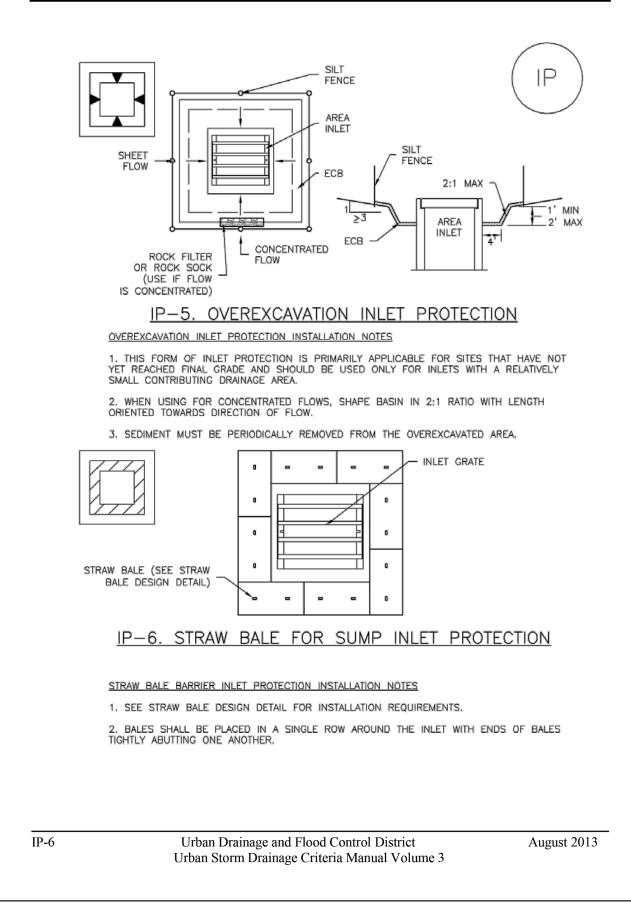


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C2.7







### **SM-4**

## Vehicle Tracking Control (VTC)

Photograph VTC-2. A vehicle tracking control pad with wheel wash

**VTC-3.** Stabilized Construction Entrance/Exit with Wheel Wash. This is an aggregate pad, similar to VTC-1, but includes equipment for tire washing. The wheel wash equipment may be as simple as hand-held power washing equipment to more advance proprietary systems. When a wheel wash is provided, it is important to direct wash water to a sediment trap prior to discharge from the site.

Vehicle tracking controls are sometimes installed in combination with a sediment trap to treat runoff.

Maintenance and Removal

Inspect the area for degradation and replace aggregate or material used for a stabilized entrance/exit as needed. If the area becomes clogged and ponds water, remove and dispose of excess sediment or replace material with a fresh layer of aggregate as necessary.

With aggregate vehicle tracking controls, ensure rock and debris from this area do not enter the public right-of-way.

Remove sediment that is tracked onto the public right of way daily or more frequently as needed. Excess sediment in the roadway indicates that the stabilized construction entrance needs maintenance.

Ensure that drainage ditches at the entrance/exit area remain clear.

A stabilized entrance should be removed only when there is no longer the potential for vehicle tracking to occur. This is typically after the site has been stabilized.

facility. Photo courtesy of Tom Gore.

When wheel wash equipment is used, be sure that the wash water is discharged to a sediment trap prior to discharge. Also inspect channels conveying the water from the wash area to the sediment trap and stabilize areas that may be eroding.

When a construction entrance/exit is removed, excess sediment from the aggregate should be removed and disposed of appropriately. The entrance should be promptly stabilized with a permanent surface following removal, typically by paving.

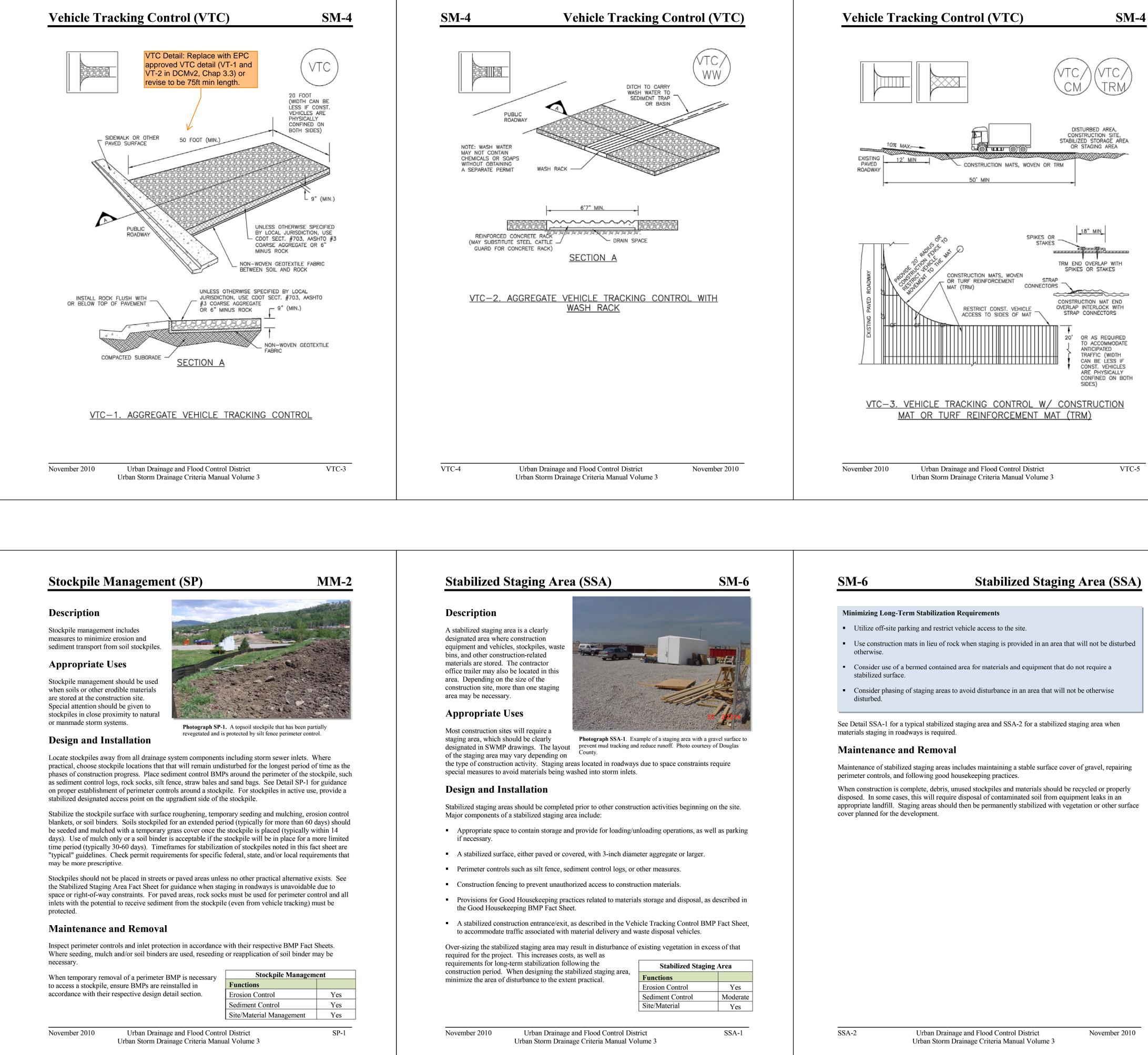


Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

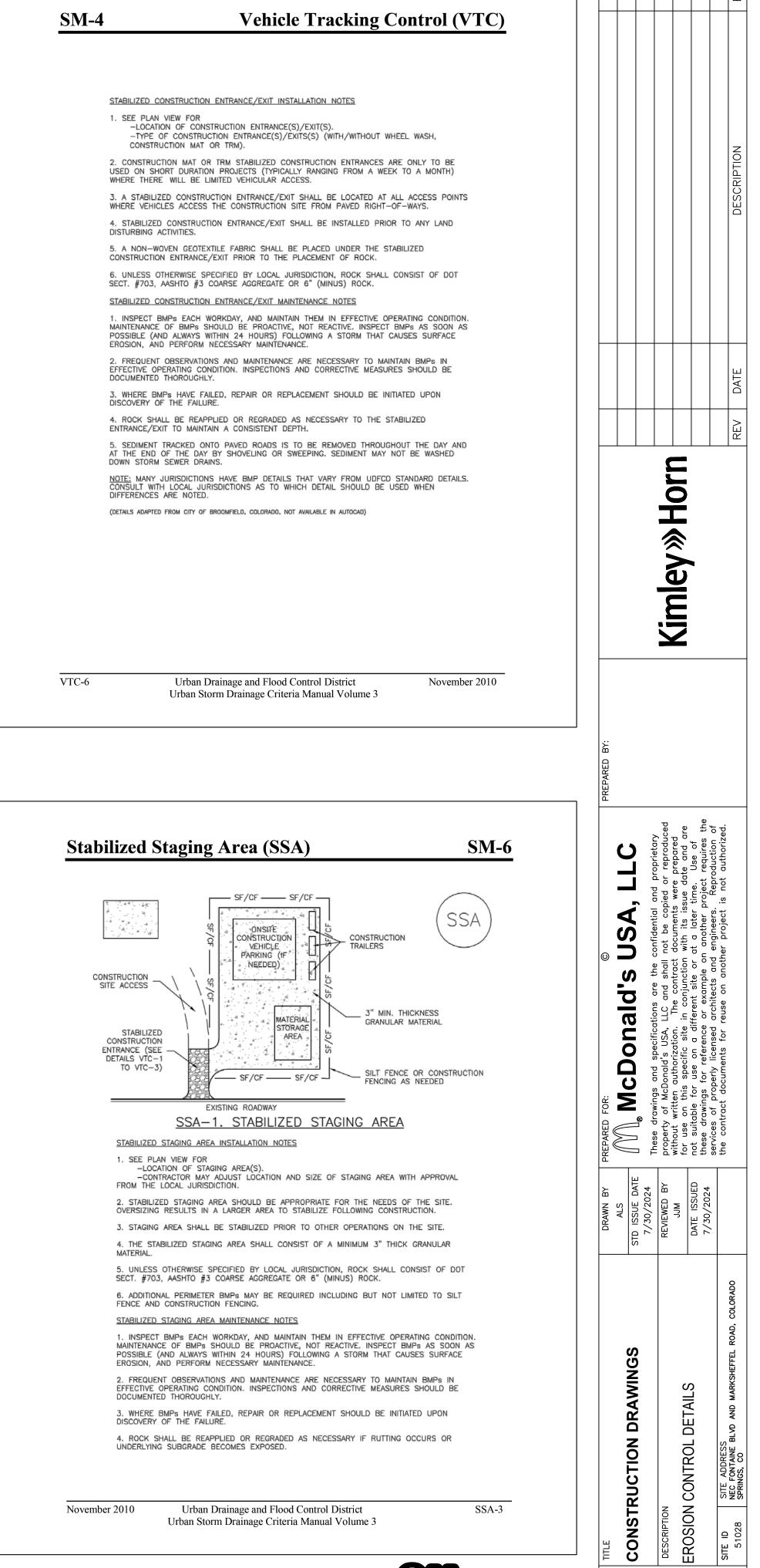


Know what's **below. Call** before you dig.

								DESCRIPTION
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PREPARED BY:					0			
PREPARED FOR:	M McDonald's USA. LLC		property of McDonald's USA, LLC and shall not be copied or reproduced	without written authorization. The contract accuments were prepared for use on this specific site in conjunction with its issue date and are	not suitable for use on a different site or at a later time. Use of these drawinas for reference or example on another project requires the	services of properly licensed architects and engineers. Reproduction of	the contract documents for reuse on another project is not authorized.	
BY	ALS STD ISSUE DATE	7/30/2024	REVIEWED BY	MUL	DATE ISSUED	+202/00/1		
ТІЛЬЕ	CONSTRUCTION DRAWINGS		DESCRIPTION				SITE ID SITE ADDRESS	51028 NEC FONTAINE BLVD AND MARKSHEFFEL ROAD, COLORADO 51028 SPRINGS, CO



rea (SSA) SM-6	SM-6 Stabilized Staging Area (SSA
set       Set of         set       Image: Set of the set	<ul> <li>Minimizing Long-Term Stabilization Requirements</li> <li>Utilize off-site parking and restrict vehicle access to the site.</li> <li>Use construction mats in lieu of rock when staging is provided in an area that will not be disturbe otherwise.</li> <li>Consider use of a bermed contained area for materials and equipment that do not require a stabilized surface.</li> <li>Consider phasing of staging areas to avoid disturbance in an area that will not be otherwise disturbed.</li> <li>See Detail SSA-1 for a typical stabilized staging area and SSA-2 for a stabilized staging area when materials staging in roadways is required.</li> <li>Maintenance of stabilized staging areas includes maintaining a stable surface cover of gravel, repairing primeter controls, and following good housekceping practices.</li> <li>When construction is complete, debris, unused stockpiles and materials should be recycled or properly disposed. In some cases, this will require disposel of contaminated soil from equipment leaks in an appropriate landfill. Staging areas should then be permanently stabilized with vegetation or other surface over planned for the development.</li> </ul>





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C2.9

### **SM-6**

## Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION. NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF

VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED. NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4

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Sediment Basin (SB)

### Description

A sediment basin is a temporary pond built on a construction site to capture eroded or disturbed soil transported in storm runoff prior to discharge from the site. Sediment basins are designed to capture site runoff and slowly release it to allow time for settling of sediment prior to discharge. Sediment basins are often constructed in locations that will later be modified to serve as post-construction stormwater basins.

### Appropriate Uses

Most large construction sites (typically greater than 2 acres) will require one or more sediment basins for effective

Sediment basins should not be used as stand-alone sediment controls. Erosion and other sediment controls should also be implemented upstream.

## construction detention pond will be located.

### **Design and Installation**

- achieved because of site space constraints, baffling may be required to extend the effective inflow point(s) and the outlet to
- **Dam Embankment**: It is recom embankment slopes be 4:1 (H:V than 3:1 (H:V) in any location.

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**SC-7** 

management of construction site runoff. On linear construction projects, sediment basins may be impractical; instead, sediment traps or other combinations of BMPs may be more appropriate.

When feasible, the sediment basin should be installed in the same location where a permanent post-

The design procedure for a sediment basin includes these steps: • **Basin Storage Volume**: Provide a storage volume of at least 3,600 cubic feet per acre of drainage

area. To the extent practical, undisturbed and/or off-site areas should be diverted around sediment basins to prevent "clean" runoff from mixing with runoff from disturbed areas. For undisturbed areas (both on-site and off-site) that cannot be diverted around the sediment basin, provide a minimum of 500 ft<sup>3</sup>/acre of storage for undeveloped (but stable) off-site areas in addition to the 3,600 ft<sup>3</sup>/acre for disturbed areas. For stable, developed areas that cannot be diverted around the sediment basin, storage volume requirements are summarized in Table SB-1.

Basin Geometry: Design basin with a minimum length-to-width ratio of 2:1 (L:W). If this cannot be

tive distance between the o minimize short-circuiting.	Sediment Basins			
ommended that	<b>Functions</b> Erosion Control	No		
V) or flatter and no steeper	Sediment Control	Yes		
	Site/Material Management	No		

SB-1

## **SC-7**

SB-4

## Sediment Basin (SB)

### Maintenance and Removal

Maintenance activities include the following:

- Dredge sediment from the basin, as needed to maintain BMP effectiveness, typically when the design storage volume is no more than one-third filled with sediment.
- Inspect the sediment basin embankments for stability and seepage.
- Inspect the inlet and outlet of the basin, repair damage, and remove debris. Remove, clean and replace the gravel around the outlet on a regular basis to remove the accumulated sediment within it and keep the outlet functioning.
- Be aware that removal of a sediment basin may require dewatering and associated permit requirements.
- Do not remove a sediment basin until the upstream area has been stabilized with vegetation.

Final disposition of the sediment basin depends on whether the basin will be converted to a permanent post-construction stormwater basin or whether the basin area will be returned to grade. For basins being converted to permanent detention basins, remove accumulated sediment and reconfigure the basin and outlet to meet the requirements of the final design for the detention facility. If the sediment basin is not to be used as a permanent detention facility, fill the excavated area with soil and stabilize with vegetation.

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## Sediment Basin (SB)

## **SC-7**

SEDIMENT BASIN MAINTENANCE NOTES 1. INSPECT BMPS EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

 FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).

5. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION. 6. WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO) NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

August 2013

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Call before you dig

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Kimley » Horn							
PREPARED BY:							
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