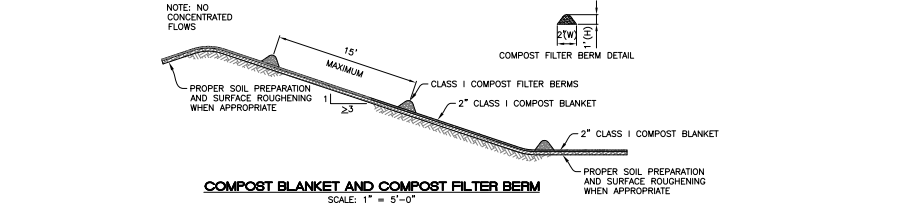
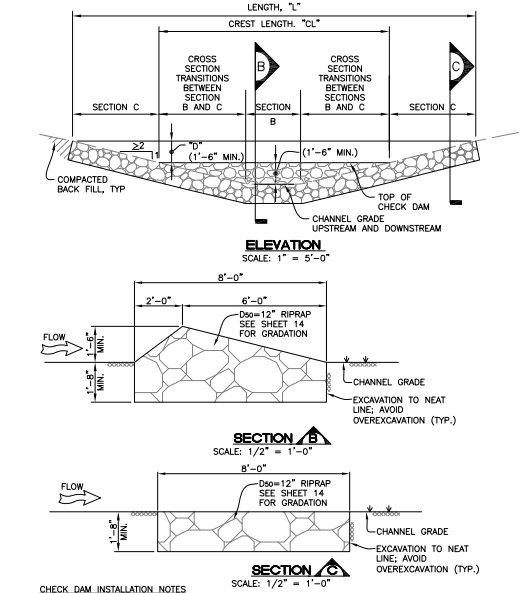
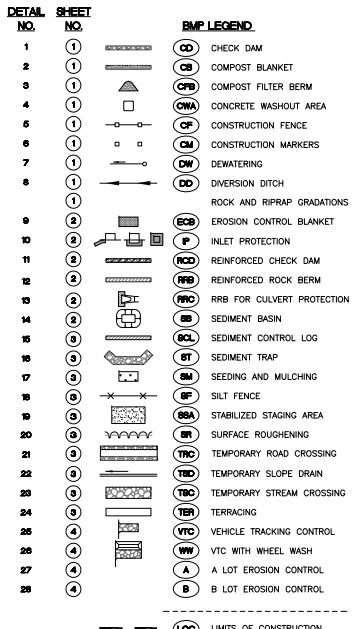


TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) GENERAL NOTES

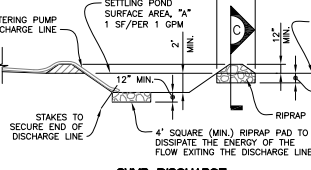
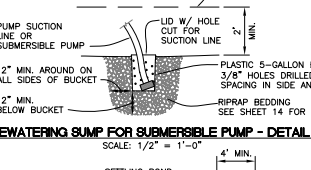
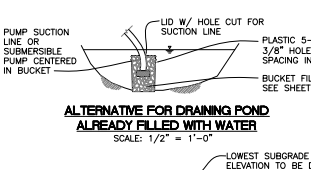
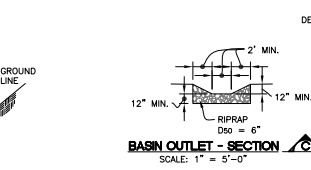
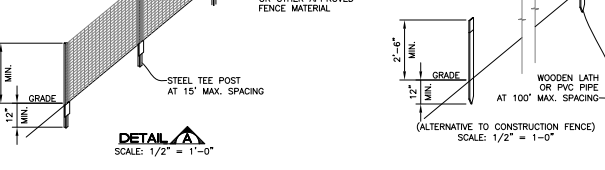
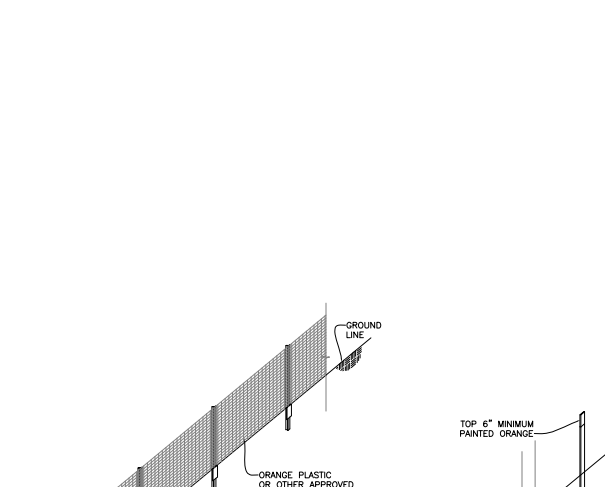
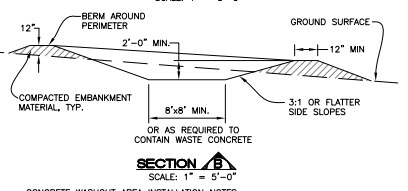
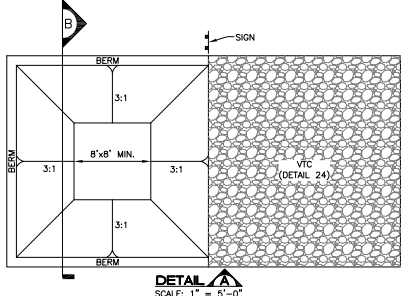
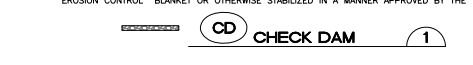
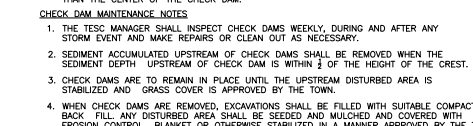
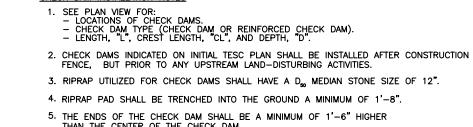
- THE DIRECTOR OF CASTLE ROCK WATER AND DEVELOPMENT SERVICES DEPARTMENT SIGNATURES AFFIXED TO THIS DOCUMENT INDICATE THE STORMWATER ENGINEERING DIVISION AND THE DEVELOPMENT SERVICES DEPARTMENT HAVE REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL COMPLIANCE WITH THE TOWN OF CASTLE ROCK TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) MANUAL. THE DIRECTOR OF CASTLE ROCK WATER AND DEVELOPMENT SERVICES DEPARTMENT, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY (OTHER THAN STATED ABOVE) FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS.
- THE ADEQUACY OF THIS TESC PLAN LIES WITH THE ORIGINAL DESIGN ENGINEER.
- THE TESC PLAN SHALL BE CONSIDERED VALID FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE TOWN. IF CONSTRUCTION HAS NOT COMMENCED, AFTER WHICH TIME THE PLAN SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY THE TOWN OF CASTLE ROCK.
- OVERLAP GRADING REQUIRES A CONSTRUCTION PERMIT THROUGH THE PUBLIC WORKS DEPARTMENT IN ADDITION TO THE TESC PERMIT. ALL EXCAVATIONS AND GRADING OPERATIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE TOWN OF CASTLE ROCK APPROVED CONSTRUCTION PLANS AND THE TOWN OF CASTLE ROCK PUBLIC WORKS REGULATIONS. WHERE THERE IS A CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL PREVAIL.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF CASTLE ROCK. THE TOWN RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE TESC MANUAL, TESC PLAN OR TESC PERMIT.
- SEE CONSTRUCTION PLANS FOR ALL GEOTECHNICAL SAMPLING, TESTING AND INSPECTION REQUIREMENTS.
- THE PLACEMENT OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE TOWN OF CASTLE ROCK ACCEPTED TESC PLAN AND THE TOWN OF CASTLE ROCK TESC MANUAL.
- ANY VARIATION IN MATERIAL, TYPE OR LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES FROM THE TOWN OF CASTLE ROCK ACCEPTED TESC PLAN WILL REQUIRE APPROVAL FROM AN ACCOUNTABLE REPRESENTATIVE OF THE TOWN.
- AFTER THE TESC PLAN HAS BEEN ACCEPTED, THE TESC PERMIT APPLIED FOR FEES AND FISCAL SECURITY SUBMITTED TO THE TOWN. THE CONTRACTOR MAY INSTALL THE INITIAL-STAGE EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE ACCEPTED TESC PLAN AND CONTACT DEVELOPMENT SERVICES TO SCHEDULE A PRECONSTRUCTION MEETING. THE REQUEST SHALL BE MADE A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE REQUESTED MEETING TIME.
- THE FIRST CONTROL MEASURES TO BE INSTALLED ON THE SITE SHALL BE CONSTRUCTION FENCE, MARKERS, OR OTHER APPROVED MEANS OF DEFINING THE LIMITS OF CONSTRUCTION, INCLUDING CONSTRUCTION LIMITS ADJACENT TO STREAM CORRIDORS AND OTHER AREAS TO BE PRESERVED.
- THE OWNER OR OWNER'S REPRESENTATIVE, THE TESC MANAGER, THE GENERAL CONTRACTOR, AND THE GRADING SUBCONTRACTOR, IF DIFFERENT FROM THE GENERAL CONTRACTOR, MUST ATTEND THE PRECONSTRUCTION MEETING. IF ANY OF THE REQUIRED PARTICIPANTS FAIL TO ATTEND THE PRECONSTRUCTION MEETING, OR IF THE APPROVED TESC PLANS ARE NOT AVAILABLE, THE MEETING WILL BE CANCELLED AND THE APPLICANT WILL HAVE TO REAPPLY FOR A TESC PERMIT AND CALL TO RESCHEDULE THE MEETING, WITH A CORRESPONDING DELAY IN THE START OF CONSTRUCTION. THE TOWN OF CASTLE ROCK STRONGLY ENCOURAGES THE APPLICANT TO HAVE THE ENGINEER OF RECORD AT THE PRECONSTRUCTION MEETING. FAILURE OF THE ENGINEER OF RECORD TO ATTEND MAY RESULT IN A DELAY OF THE START OF CONSTRUCTION.
- AFTER INSTALLATION OF THE INITIAL-STAGE EROSION AND SEDIMENT CONTROL MEASURES, THE PERMITTEE SHALL CALL THE TOWN OF CASTLE ROCK STORMWATER INSPECTOR TO SCHEDULE AN INITIAL INSPECTION AT THE PROJECT SITE. NO CONSTRUCTION ACTIVITIES SHALL BE PLANNED WITHIN 24 HOURS AFTER PASSING INITIAL INSPECTION.
- CONSTRUCTION SHALL NOT BEGIN UNTIL THE STORMWATER INSPECTOR APPROVES THE INSTALLATION OF THE INITIAL CONTROL MEASURES AND THE TESC PERMIT HAS BEEN APPROVED. FAILURE TO HAVE THE REQUIRED PERMIT FEES, FISCAL SURETY AND PERMIT COMPLETE AT THE TIME OF INITIAL INSPECTION WILL RESULT IN A FAILED INSPECTION. NO CONSTRUCTION MAY BEGIN UNTIL ALL ITEMS ARE RECEIVED AND SITE PASSES INITIAL INSPECTION.
- THE TESC MANAGER SHALL STRICTLY ADHERE TO THE TOWN-APPROVED LIMITS OF CONSTRUCTION AT ALL TIMES. THE TOWN MUST APPROVE ANY CHANGES TO THE LIMITS OF CONSTRUCTION AND, AT THE DISCRETION OF THE TOWN, ADDITIONAL EROSION/SEDIMENT CONTROLS MAY BE REQUIRED IN ANY ADDITIONAL AREAS OF CONSTRUCTION.
- THE MAXIMUM AREA OF CONSTRUCTION SHALL BE LIMITED TO 40 ACRES (70 ACRES IF APPROVED FOR SOIL MITIGATION OPERATIONS) TO REDUCE THE AMOUNT OF LAND DISTURBED AT ANY ONE TIME. LARGER SITES SHALL BE DIVIDED INTO PHASES THAT EACH 40 (OR 70) ACRES OR LESS IN SIZE. THESE PROJECTS SHALL CONDUCT GRADING ACTIVITIES IN ACCORDANCE WITH THE ACCEPTED TESC PLAN. CONTROL MEASURE INSTALLATION AND APPROVAL BY THE TOWN AT THE START AND COMPLETION OF EACH PHASE SHALL BE COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS OUTLINED IN THE TESC MANUAL.
- PRIOR TO ACTUAL CONSTRUCTION, THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES. FOR INFORMATION, CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 OR 1-800-922-1987.
- NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS.
- THE TESC PERMIT SHALL BE VALID FOR A THREE (3) YEAR PERIOD (ONE YEAR ACTIVE CONSTRUCTION AND TWO YEAR REVEGETATION PERIOD). IN THE EVENT THAT ACTIVE CONSTRUCTION EXCEEDS ONE YEAR, THE TESC PERMIT MUST BE EXTENDED.
- A COPY OF THE TESC PERMIT AND ACCEPTED TESC PLAN SHALL BE ON SITE AT ALL TIMES.
- THE TESC MANAGER SHALL BE RESPONSIBLE FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE WITH THE TESC PERMIT AND BE THE PERMITTEE'S CONTACT PERSON WITH THE TOWN FOR ALL MATTERS PERTAINING TO THE TESC PERMIT. THE TESC MANAGER SHALL BE PRESENT AT THE SITE THE MAJORITY OF THE TIME AND SHALL BE AVAILABLE THROUGH A 24-HOUR CONTACT NUMBER. IN THE EVENT THAT THE CONTRACTOR'S TESC MANAGER IS NOT ON SITE AND CANNOT BE REACHED DURING A VIOLATION, THE ALTERNATE TESC MANAGER SHALL BE CONTACTED. IF NEITHER THE TESC MANAGER NOR ALTERNATE TESC MANAGER CAN BE CONTACTED DURING ANY VIOLATION, A STOP WORK ORDER SHALL BE ISSUED.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE THROUGH A TOWN-APPROVED ACCESS POINT. A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL ACCESS POINTS ON THE SITE. ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES MAY BE ADDED WITH AUTHORIZATION BY THE TOWN.



- COMPOST BLANKET NOTES:**
- SEE PLAN VIEW FOR AREA OF COMPOST BLANKET.
 - MAY BE USED IN PLACE OF STRAW MULCH OR EROSION CONTROL BLANKET IN AREAS WHERE ACCESS IS DIFFICULT DUE TO LANDSCAPING OR OTHER OBJECTS OR IN AREAS WHERE A SMOOTH TURF GRASS FINISH IS DESIRED.
 - SHALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL. SHALL BE PROHIBITED IN AREAS OF POSSIBLE CONCENTRATED FLOW.
 - SOIL PREPARATION SHALL BE COMPLETE PER THE SPECIFICATIONS OUTLINED IN THESE CRITERIA PRIOR TO APPLICATION.
 - WHEN TURF GRASS FINISH IS NOT DESIRED, SURFACE ROUGHENING ON SLOPES SHALL TAKE PLACE PRIOR TO APPLICATION.
 - SHALL BE EVENLY APPLIED AT A DEPTH OF 2 INCH.
 - MAY BE APPLIED UTILIZING PNEUMATIC BLOWER, OR BY HAND.
 - SEEDING SHALL BE DRILLED PRIOR TO THE APPLICATION OF COMPOST OR SEED MAY BE COMBINED AND BLOWN WITH THE PNEUMATIC BLOWER.
 - COMPOST FILTER BERM SHALL BE UTILIZED ON SLOPES WITH A MAXIMUM SPACING OF 15 FEET PER THE REQUIREMENTS FOUND IN THE EROSION CONTROL BLANKET SECTION.
 - THE GESC MANAGER SHALL INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.
 - COMPOST USED IN THE APPLICATION OF THE COMPOST BLANKET SHALL BE A CLASS I COMPOST AS DEFINED BY THE FOLLOWING PHYSICAL, CHEMICAL, AND BIOLOGICAL PARAMETERS:

PARAMETERS	CLASS I COMPOST FOR COMPOST BLANKET
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
SOLUBLE SALTS	MAXIMUM 5mmhos/cm
PH	6.0 - 8.0
AG INDEX	> 10
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF GERMINATION/VIGOR	80+ / 80+
MATURITY INDICATOR EXPRESSED AS AMMONIA N/ NITRATE RATIO	< 4
MATURITY INDICATOR EXPRESSED AS CARBON TO NITROGEN RATIO	20:1
TESTED FOR CLOP/RAID	YES/NEGATIVE RESULT
MOISTURE CONTENT	30-60 %
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
SOLUBLE SALTS	MAXIMUM 5mmhos/cm
PH	6.0 - 8.0
AG INDEX	> 10
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF GERMINATION/VIGOR	80+ / 80+
MATURITY INDICATOR EXPRESSED AS AMMONIA N/ NITRATE RATIO	< 4
MATURITY INDICATOR EXPRESSED AS CARBON TO NITROGEN RATIO	20:1
TESTED FOR CLOP/RAID	YES/NEGATIVE RESULT
MOISTURE CONTENT	30-60 %
PARTICLE SIZE DISTRIBUTION	3" (75mm) 100% PASSING 1" (25mm) 95% TO 100% PASSING 3/4" (19mm) 85% TO 90% PASSING 3/8" (9.5mm) 50% TO 60% PASSING #4 TO 20 30% PASSING
PRIMARY, SECONDARY NUTRIENTS; TRACE ELEMENT	MUST BE REPORTED
TESTING AND TEST REPORT SUBMITTAL REQUIREMENTS	STA + CLOP/RAID
ORGANIC MATTER PER CUBIC YARD	MUST REPORT
CHEMICAL CONTAMINANTS	MEET OR EXCEED US EPA CLASS A STANDARD, 40 CFR 503.1 TABLE 1 & 3 LEVELS
MINIMUM MANUFACTURING/PRODUCTION REQUIREMENT	FULLY PERMITTED UNDER COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, HAZARDOUS MATERIALS AND WASTE MANAGEMENT DIVISION
RISK FACTOR RELATING TO PLANT GERMINATION AND HEALTH	LOW

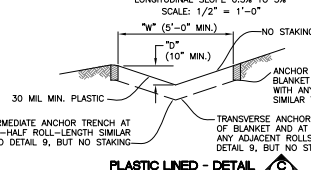
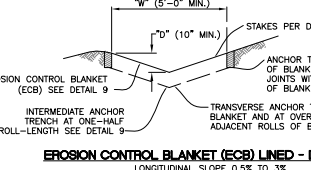
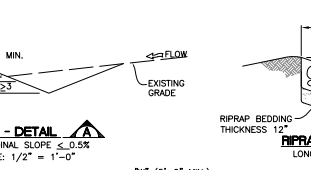
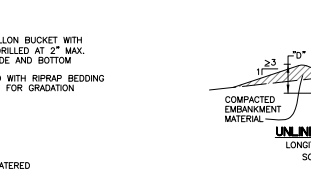
PARAMETERS	CLASS I COMPOST FOR COMPOST FILTER BERM
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
SOLUBLE SALTS	MAXIMUM 5mmhos/cm
PH	6.0 - 8.0
AG INDEX	> 10
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF GERMINATION/VIGOR	80+ / 80+
MATURITY INDICATOR EXPRESSED AS AMMONIA N/ NITRATE RATIO	< 4
MATURITY INDICATOR EXPRESSED AS CARBON TO NITROGEN RATIO	20:1
TESTED FOR CLOP/RAID	YES/NEGATIVE RESULT
MOISTURE CONTENT	30-60 %
ORGANIC MATTER CONTENT	25-45 % OF DRY WEIGHT
PARTICLE SIZE DISTRIBUTION	3" (75mm) 100% PASSING 1" (25mm) 95% TO 100% PASSING 3/4" (19mm) 85% TO 90% PASSING 3/8" (9.5mm) 50% TO 60% PASSING #4 TO 20 30% PASSING
PRIMARY, SECONDARY NUTRIENTS; TRACE ELEMENT	MUST BE REPORTED
TESTING AND TEST REPORT SUBMITTAL REQUIREMENTS	STA + CLOP/RAID
ORGANIC MATTER PER CUBIC YARD	MUST REPORT
CHEMICAL CONTAMINANTS	MEET OR EXCEED US EPA CLASS A STANDARD, 40 CFR 503.1 TABLE 1 & 3 LEVELS
MINIMUM MANUFACTURING/PRODUCTION REQUIREMENT	FULLY PERMITTED UNDER COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, HAZARDOUS MATERIALS AND WASTE MANAGEMENT DIVISION
RISK FACTOR RELATING TO PLANT GERMINATION AND HEALTH	LOW



- CONCRETE WASHOUT AREA INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATIONS OF CONCRETE WASHOUT AREA.
 - LOCATION OF VTC IF REQUIRED.
 - THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
 - VEHICLE TRACKING CONTROL (DETAIL 24) IS REQUIRED AT THE ACCESS POINT IF LEADING TO AN IMPERVIOUS SURFACE SUCH AS A STREET OR PARKING LOT.
 - SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
 - EXCAVATED MATERIAL SHALL BE UTILIZED IN PERMETER BERM CONSTRUCTION.
- CONCRETE WASHOUT AREA MAINTENANCE NOTES**
- THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
 - AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
 - WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE TOWN.
 - INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

- CONSTRUCTION FENCE INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - TYPE OF CONSTRUCTION LIMIT INDICATOR (FENCE OR MARKERS).
 - LOCATION AND LENGTH OF FENCE OR LINE OF MARKERS.
 - CONSTRUCTION FENCE OR MARKERS INDICATED ON INITIAL TESC PLAN SHALL BE INSTALLED PRIOR TO OTHER BMPs AND ANY LAND-DISTURBING ACTIVITIES.
 - STEEL TEE POSTS SHALL BE UTILIZED FOR SUPPORT OF CONSTRUCTION FENCE. MAXIMUM SPACING FOR TEE POSTS SHALL BE 15'.
- CONSTRUCTION FENCE MAINTENANCE NOTES**
- ANY DAMAGED FENCE OR MARKERS SHALL BE REPAIRED ON A DAILY BASIS.
 - FENCE OR MARKERS SHALL BE REMOVED AT THE END OF CONSTRUCTION, IF ANY DISTURBED AREA EXISTS AFTER FENCE REMOVAL, IT SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE TOWN.

- DEWATERING INSTALLATION NOTES**
- THE TESC MANAGER SHALL OBTAIN A CONSTRUCTION DISCHARGE (DEWATERING) PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT PRIOR TO ANY DEWATERING OPERATIONS. ALL DEWATERING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DISCHARGE PERMIT AND SHALL BE COORDINATED WITH THE TOWN TESC INSPECTOR.
 - THE TESC MANAGER SHALL PROVIDE, OPERATE, AND MAINTAIN DEWATERING SYSTEMS OF SUFFICIENT SIZE AND CAPACITY TO PERMIT EXCAVATION AND SUBSEQUENT CONSTRUCTION IN DRY CONDITIONS AND TO LOWER AND MAINTAIN THE GROUNDWATER LEVEL A MINIMUM OF 2 FEET BELOW THE LOWEST POINT OF EXCAVATION AND CONTINUOUSLY MAINTAIN EXCAVATIONS FREE OF WATER UNTIL BACKFILLED TO FINAL GRADE.
 - DEWATERING OPERATIONS SHALL USE ONE OR MORE OF THE DEWATERING SUMPS SHOWN ABOVE OR OTHER MEANS APPROVED BY THE TOWN TO RELIEVE THE PUMPING OF SEDIMENT, AND SHALL PROVIDE A TEMPORARY BASIN FOR SETTLING PUMPED DISCHARGES PRIOR TO RELEASE OFF SITE OR TO A RECEIVING WATER. SEDIMENT BASIN PER DETAIL 14 MAY BE USED IN LIEU OF SUMP DISCHARGE SETTLING BASIN SHOWN ABOVE.
 - A 4' SQUARE RIPRAP PAD SHALL BE PLACED AT DISCHARGE POINT.
 - THE DISCHARGE END OF THE LINE SHALL BE STAKED IN PLACE TO PREVENT MOVEMENT OF RIPRAP PAD.
- DEWATERING MAINTENANCE NOTES**
- THE TESC MANAGER SHALL INSPECT DEWATERING SYSTEMS AND PERFORM ANY NECESSARY REPAIRS OR MAINTENANCE ON A HOURLY BASIS.
 - TEMPORARY SETTLING BASINS SHALL BE REMOVED WHEN NO LONGER NEEDED FOR DEWATERING OPERATIONS. ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE TOWN.



Sheet Revisions

NO.	DATE	DESCRIPTION	BY
R1	3/11	GESC MANUAL UPDATES	DV
R2	5/15	GESC MANUAL UPDATES	DV
R3	6/19	GESC MANUAL UPDATES	DV

NOTE: SCALES SHOWN ARE FOR 22"x34" SHEETS; ADJUST ACCORDINGLY FOR 11"x17" SHEETS.

CASTLE ROCK WATER
Stormwater Engineering Division

TESC

TEMPORARY EROSION, AND SEDIMENT CONTROL

TESC PLAN STANDARD NOTES AND DETAILS

SHEET 1 OF 4