



D:\BROWNSKI, COLIN - 10/31/2024 2:20 PM

### GRADING AND EROSION CONTROL NOTES:

- 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 ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- 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 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 OF 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 AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND THE EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- 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 COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATION 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 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 PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE 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 PERMIT CLOSURE.
- ALL PERMANENT STORMWATER FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OF FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER 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 AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OF 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 OF THE CONTROL MEASURE(S)
- 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 SEDIMENT OFF SITE.
- 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 SURFACE WATER BODY, CREEK OR STREAM.
- 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.
- EROSION BLANKET OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- 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 THIS SITE.
- 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.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP PROPERLY AND PROPERLY DISPOSED OF IMMEDIATELY.
- 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 APPURTENANCES AS A RESULT OF THE SITE DEVELOPMENT.
- 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 AN EAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABEL.
- 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 CHEMICAL(S) SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRED ADEQUATE SECONDARY PROTECTION TO CONTAIN AL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- 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 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 APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THE SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. DATED SEPTEMBER 11, 2024 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR 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 INFORMATION OR APPLICATION MATERIALS CONTACT:

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

| SECTION | VELOCITY | GRAVITATIONAL CONSTANT | HYDRAULIC DEPTH | XSECTIONAL AREA | TOP WIDTH | FROUDE # |
|---------|----------|------------------------|-----------------|-----------------|-----------|----------|
|         | FT/S     | FT/S <sup>2</sup>      | FT              | FT <sup>2</sup> | FT        | N/A      |
| A-A     | 5.79     | 32.17                  | 0.88            | 47.30           | 53.49     | 1.09     |
| B-B     | 3.92     | 32.17                  | 0.55            | 18.30           | 33.21     | 0.93     |
| C-C     | 3.33     | 32.17                  | 0.31            | 12.60           | 41.27     | 1.06     |
| D-D     | 3.91     | 32.17                  | 0.55            | 48.50           | 88.91     | 0.93     |
| E-E     | 4.44     | 32.17                  | 0.20            | 1.10            | 5.41      | 1.74     |
| F-F     | 7.56     | 32.17                  | 1.34            | 39.40           | 29.43     | 1.15     |
| G-G     | 6.86     | 32.17                  | 0.44            | 3.10            | 7.00      | 1.82     |
| H-H     | 7.75     | 32.17                  | 1.51            | 36.60           | 24.18     | 1.11     |
| I-I     | 8.90     | 32.17                  | 0.76            | 10.50           | 13.74     | 1.79     |

| SECTION | UNIT WEIGHT OF WATER | DEPTH OF FLOW | SLOPE | SHEAR STRESS       |
|---------|----------------------|---------------|-------|--------------------|
|         | LB/FT <sup>3</sup>   | FT            | FT/FT | LB/FT <sup>2</sup> |
| A-A     | 62.43                | 1.10          | 0.022 | 1.51               |
| B-B     | 62.43                | 0.70          | 0.019 | 0.83               |
| C-C     | 62.43                | 0.60          | 0.030 | 1.12               |
| D-D     | 62.43                | 0.80          | 0.019 | 0.95               |
| E-E     | 62.43                | 0.40          | 0.090 | 2.25               |
| F-F     | 62.43                | 2.70          | 0.022 | 3.71               |
| G-G     | 62.43                | 0.90          | 0.082 | 4.61               |
| H-H     | 62.43                | 3.00          | 0.020 | 3.75               |
| I-I     | 62.43                | 1.50          | 0.065 | 6.09               |

| SECTION | CALCULATED VALUES |          | P300 MAX VALUES |          | LINING REQUIRED |
|---------|-------------------|----------|-----------------|----------|-----------------|
|         | SHEAR STRESS      | VELOCITY | SHEAR STRESS    | VELOCITY |                 |
| A-A     | 1.51              | 5.79     | 3.00            | 9.00     | P300            |
| B-B     | 0.83              | 3.92     | 3.00            | 9.00     | P300            |
| C-C     | 1.12              | 3.33     | 3.00            | 9.00     | P300            |
| D-D     | 0.95              | 3.91     | 3.00            | 9.00     | P300            |
| E-E     | 2.25              | 4.44     | 3.00            | 9.00     | P300            |
| F-F     | 3.71              | 7.56     | 3.00            | 9.00     | TMAX            |
| G-G     | 4.61              | 6.86     | 3.00            | 9.00     | TMAX            |
| H-H     | 3.75              | 7.75     | 3.00            | 9.00     | TMAX            |
| I-I     | 6.09              | 8.90     | 3.00            | 9.00     | TMAX            |

### ABBREVIATIONS

|        |  |         |  |
|--------|--|---------|--|
| Δ      | DEFLECTION ANGLE   | FOC     | FIBER OPTICS CABLE                       |
| Ø, DIA | DIAMETER   | FT      | FOOT OR FEET                             |
| AASHTO | AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS | GB      | GRADE BREAK                              |
| ABC    | ASPHALT BASE COURSE  | GAL     | GALLOW                                   |
| ABD    | ABANDONED  | HDPE    | HIGH DENSITY POLYETHYLENE                |
| AC     | ACRE   | HC RAMP | HANDICAP RAMP                            |
| ADA    | THE AMERICANS WITH DISABILITIES ACT                                | HW      | HEADWALL                                 |
| ASPH   | ASPHALT  | INV     | INVERT                                   |
| ASSY   | ASSEMBLY   | KM      | KILOMETER                                |
| ASTM   | AMERICAN SOCIETY FOR TESTING MATERIALS                             | L       | LENGTH                                   |
| BFE    | BASE FLOOD ELEVATION   | LF      | LINEAR FEET                              |
| BLDG   | BUILDING   | M       | METER                                    |
| BLVD   | BOULEVARD  | MIN     | MINIMUM                                  |
| BM     | BENCH MARK   | MISC    | MISCELLANEOUS                            |
| BNDY   | BOUNDARY   | MAINT   | MAINTENANCE                              |
| BOP    | BOTTOM OF POND   | MAX     | MAXIMUM                                  |
| BW     | BOTTOM OF WALL   | MH      | MANHOLE                                  |
| C&G    | CURB AND GUTTER  | MP      | MIDPOINT                                 |
| CA     | COARSE AGGREGATE   | N       | NORTH/NORTHING                           |
| CATV   | CABLE TELEVISION   | NO      | NUMBER                                   |
| CB     | CHORD BEARING/CATCH BASIN  | OC      | ON CENTER                                |
| CFS    | CUBIC FEET PER SECOND  | OH      | OVERHEAD                                 |
| CIP    | CAST IRON PIPE   | PB      | PUBLIC                                   |
| CL     | CENTER LINE  | PC      | POINT OF CURVATURE                       |
| CMP    | CORRUGATED METAL PIPE  | PCC     | POINT OF COMPOUND CURVATURE              |
| COMP   | COMPOSITE  | PCR     | POINT OF CURB RETURN                     |
| CONC   | CONCRETE   | PI      | POINT OF INTERSECTION                    |
| CONST  | CONSTRUCT OR CONSTRUCTION  | PIE     | PUBLIC IMPROVEMENT ESMT                  |
| CSP    | CORRUGATED STEEL PIPE  | PT      | POINT OF TANGENCY                        |
| CSU    | COLORADO SPRINGS UTILITIES   | PRC     | PROPOSED                                 |
| CT     | COURT  | PRC     | POINT OF REVERSE CURVATURE               |
| CTR    | CENTER   | PRV     | PRESSURE REDUCING VALVE                  |
| CU     | COPPER   | PRV     | PRIVATE                                  |
| CY     | CUBIC YARD   | PUE     | PUBLIC UTILITY AND ACCESS ESMT           |
| DBL    | DOUBLE   | PUDE    | PUBLIC UTILITY, ACCESS AND DRAINAGE ESMT |
| DEG    | DEGREE   | PVC     | POLYVINYL CHLORIDE                       |
| DET    | DETAIL   | R       | RADIUS                                   |
| DEPT   | DEPARTMENT   | REC     | RECEPTION                                |
| DIM    | DIMENSION  | RCCB    | REINFORCED CONCRETE BOX CULVERT          |
| DIP    | DUCTILE IRON PIPE  | S       | SOUTH                                    |
| DOT    | DEPARTMENT OF TRANSPORTATION                                       | SHT     | SHEET                                    |
| DWG    | DRAWING  | SQ      | SQUARE                                   |
| E      | EAST/EASTING   | SW      | SPILLWAY                                 |
| EL     | ELEVATION  | TBC     | TOP BACK OF CURB                         |
| ELEC   | ELECTRIC   | TC      | TRICKLE CHANNEL                          |
| EOG    | EDGE OF GUTTER   | TOP     | TOP OF POND                              |
| EOP    | EDGE OF PAVEMENT   | TW      | TOP OF WALL                              |
| ESMT   | EASEMENT   | TYP     | TYPICAL                                  |
| EW     | ENDWALL  | UG      | UNDERGROUND                              |
| EX     | EXISTING   | VERT    | VERTICAL                                 |
| FD     | FRENCH DRAIN   | W       | WEST                                     |
| FDC    | FIRE DEPARTMENT CONNECTION   | WW      | WASTEWATER                               |
| FE     | FLANGE ELEVATION   | WWF     | WELDED WIRE FABRIC                       |
| FES    | FLARED END SECTION   | W/      | WITH                                     |
| FF     | FINISHED FLOOR   | W/O     | WITHOUT                                  |
| FG     | FINISHED GRADE   | YD      | YARD                                     |
| FH     | FIRE HYDRANT   |         |  |
| FHWA   | FEDERAL HIGHWAY ADMINISTRATION                                     |         |  |
| FL     | FLOW LINE  |         |  |

### LEGEND

|                   |          |          |                       |          |          |
|-------------------|----------|----------|-----------------------|----------|----------|
| MATCH LINE        | EXISTING | PROPOSED | STORM SEWER           | EXISTING | PROPOSED |
| FILING LINE       | ---      | ---      | MANHOLE               | ⊙        | ⊙        |
| SECTION LINE      | ---      | ---      | STORM INLET           | ⊙        | ⊙        |
| PROPERTY LINE     | ---      | ---      | FLARED END SECTION    | ⊙        | ⊙        |
| EASEMENT LINE     | ---      | ---      | RIPRAP                | ⊙        | ⊙        |
| RIGHT OF WAY      | ---      | ---      | SANITARY SEWER        | ⊙        | ⊙        |
| CENTERLINE        | ---      | ---      | CLEAN OUT             | ⊙        | ⊙        |
| CHAIN LINK FENCE  | ---      | ---      | MANHOLE               | ⊙        | ⊙        |
| WOODEN FENCE      | ---      | ---      | PLUG                  | ⊙        | ⊙        |
| ROD IRON FENCE    | ---      | ---      | WATER                 | ⊙        | ⊙        |
| GUARDRAIL         | ---      | ---      | FIRE HYDRANT          | ⊙        | ⊙        |
| CABLE TV          | ---      | ---      | FIRE DEPT. CONNECTION | ⊙        | ⊙        |
| U.G. ELECTRIC     | ---      | ---      | GATE VALVE            | ⊙        | ⊙        |
| OVERHEAD ELECTRIC | ---      | ---      | MANHOLE               | ⊙        | ⊙        |
| FIBER OPTIC       | ---      | ---      | METER                 | ⊙        | ⊙        |
| GAS MAIN          | ---      | ---      | TEE                   | ⊙        | ⊙        |
| SANITARY SEWER    | ---      | ---      | REDUCER               | ⊙        | ⊙        |
| STORM DRAIN       | ---      | ---      | DRY UTILITIES         | ⊙        | ⊙        |
| TELEPHONE         | ---      | ---      | ELECTRIC METER        | ⊙        | ⊙        |
| WATER MAIN        | ---      | ---      | ELECTRIC PEDESTAL     | ⊙        | ⊙        |
| SWALE             | ---      | ---      | ELECTRICAL CABINET    | ⊙        | ⊙        |
| TRAIL             | ---      | ---      | ELECTRIC VAULT        | ⊙        | ⊙        |
| CURB & GUTTER     | ---      | ---      | FIBER OPTIC PULL BOX  | ⊙        | ⊙        |
| DRAINAGE BASIN    | ---      | ---      | FIBER OPTIC MANHOLE   | ⊙        | ⊙        |
| INDEX CONTOUR     | ---      | ---      | FIBER OPTIC PEDESTAL  | ⊙        | ⊙        |
| INTER. CONTOUR    | ---      | ---      | FIBER OPTIC SIGN      | ⊙        | ⊙        |
| 100-YR FLOODPLAIN | ---      | ---      | FIBER OPTIC VAULT     | ⊙        | ⊙        |
| FLOODWAY          | ---      | ---      | GAS METER             | ⊙        | ⊙        |
| EDGE OF WETLANDS  | ---      | ---      | GAS SIGN              | ⊙        | ⊙        |
| DRAINAGE          | EXISTING | PROPOSED | GAS VAULT             | ⊙        | ⊙        |
| DRAINAGE BASIN    | ---      | ---      | TELEPHONE CABINET     | ⊙        | ⊙        |
| BASIN TAG         | ---      | ---      | TELEPHONE MANHOLE     | ⊙        | ⊙        |
| DESIGN POINT      | ---      | ---      | TELEPHONE SIGNAL/MAST | ⊙        | ⊙        |
|                   |          |          | TELEPHONE SIGN        | ⊙        | ⊙        |
|                   |          |          | TELEPHONE PEDESTAL    | ⊙        | ⊙        |
|                   |          |          | TRANSFORMER           | ⊙        | ⊙        |
|                   |          |          | LIGHT POLE            | ⊙        | ⊙        |
|                   |          |          | FIBER OPTIC VAULT     | ⊙        | ⊙        |
|                   |          |          | MISCELLANEOUS         | ⊙        | ⊙        |
|                   |          |          | SIGN                  | ⊙        | ⊙        |
|                   |          |          | BOLLARD               | ⊙        | ⊙        |
|                   |          |          | ACCESSIBLE PARKING    | ⊙        | ⊙        |

DRAWN BY: AMC JOB DATE: 10/31/2024 BAR IS ONE INCH ON OFFICIAL DRAWINGS.  
 APPROVED: RDL JOB NUMBER: 211030.240 0" = 11"  
 CAD DATE: 10/31/2024 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.  
 CAD FILE: J:\2021\211030\CAD\DWG\CI\Filing\_No\_4\GEC\GEC-Cover

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**HRGreen**  
 HR GREEN - COLORADO SPRINGS  
 1975 RESEARCH PARKWAY SUITE 160  
 COLORADO SPRINGS, CO 80920  
 PHONE: 719.300.4140  
 FAX: 713.965.0044

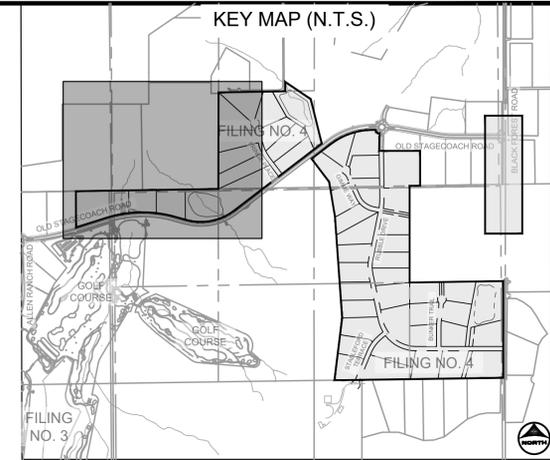
**FLYING HORSE NORTH FILING 4**  
**PRI #2, LLC.**  
 EL PASO COUNTY, CO

**GRADIN & EROSION CONTROL PLAN**  
**LEGEND & NOTES**

**SHEET**  
**LG**  
**2**



PCD FILE NO.: SF2422



**GEC LEGEND:**

|  |   |               |                       |
|--|---|---------------|-----------------------|
|  | SILT FENCE                                      | <b>PHASE:</b> | INITIAL/INTERIM       |
|  | STABILIZED STAGING AREA                         |               | INITIAL/INTERIM       |
|  | STOCKPILE MANAGEMENT                            |               | INITIAL/INTERIM       |
|  | INLET PROTECTION: IP-1 TO BE USED ON ALL INLETS |               | INTERIM               |
|  | CULVERT INLET PROTECTION                        |               | INTERIM               |
|  | VEHICLE TRACKING CONTROL                        |               | INITIAL               |
|  | DRAINAGE SWALE                                  |               | INTERIM               |
|  | LIMITS OF CONSTRUCTION                          |               | INITIAL/INTERIM/FINAL |
|  | LIMITS OF DISTURBANCE                           |               | INITIAL/INTERIM/FINAL |
|  | CUT CONDITION                                   |               |                       |
|  | FILL CONDITION                                  |               |                       |
|  | FLOW DIRECTION                                  |               |                       |
|  | EROSION CONTROL BLANKET                         |               | INTERIM/FINAL         |
|  | CHECK DAM (STRAW BALE)                          |               | INTERIM               |
|  | CONCRETE WASH OUT                               |               | INITIAL               |
|  | TEMPORARY SEDIMENT BASIN                        |               | INITIAL               |
|  | TSB TRIBUTARY AREA DELINEATION                  |               | INITIAL               |

- GRADING & EROSION CONTROL PLAN NOTES:**
- SEE SHEETS 11-12 FOR EL PASO COUNTY GRADING AND EROSION CONTROL DETAILS.
  - ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS PLAN MUST BE INSTALLED AND MAINTAINED PER THE EL PASO COUNTY STORMWATER CONSTRUCTION MANUAL; LATEST REVISIONS.
  - AREA WITHIN LIMITS OF DISTURBANCE TO BE CLEARED, GRUBBED AND STOCKPILED PRIOR TO IMPORT OF ANY FILL.
  - ALL GREATER THAN 4:1 SLOPES MUST RECEIVE SLOPE TRACKING TREATMENT AND EROSION CONTROL BLANKET.
  - STOCKPILES REQUIRED DURING ONSITE CONSTRUCTION ACTIVITIES WILL BE PLACED AT THE DISCRETION OF THE CONTRACTOR. STOCKPILING OF MATERIAL MUST NOT OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN.
  - NON-STRUCTURAL CONTROLS (I.E. STREET SWEEPING) WILL BE AT THE DISCRETION OF THE PROJECT'S CERTIFIED GEC ADMINISTRATOR THROUGHOUT THE DURATION OF LAND DISTURBING ACTIVITIES.
  - THERE ARE NO ANTICIPATED ASPHALT AND/OR CONCRETE BATCH PLANTS, OR MASONRY MIX STATIONS ASSOCIATED WITH THIS PROJECT. IF THE CONTRACTOR REQUIRES AN ASPHALT/CONCRETE BATCH PLANTS OR MASONRY MIX STATIONS, THESE PLANS WILL BE AMENDED AS REQUIRED.
  - THERE ARE NO EXISTING PRESERVATION EASEMENTS LOCATED ON SITE.
  - ONSITE EXISTING VEGETATION IS NATIVE GRASSES AND WEEDS. THERE IS NO NOTABLE VEGETATION OTHERWISE.
  - THE NATURAL TERTIARY SWALE THROUGH LOTS 16 AND 17 IS PLATTED AS A PUBLIC DRAINAGE EASEMENT WITH A VARIED WIDTH. THE EASEMENT IS TO HAVE TMAX TRM INSTALLED WITH PERMANENT SEEDING. ALL OTHER NATURAL TERTIARY SWALES DO NOT REQUIRE TRM AND ARE NOT TO BE DISTURBED. AREAS REQUIRING ROLLMAX TRM (TMAX OR P300) ARE CALLED OUT ON THE PLANS AND ARE AREAS NEAR POND CONCRETE RUNDOWNS OR ROADSIDE SWALES. SEE THE PERMANENT CHANNEL LINING PROVIDED ON SHEET 2.
  - ALL ROADSIDE DITCHES ARE TO HAVE PERMANENT TRM (ROLLMAX P300 OR EQUIV.) INSTALLED.
  - ALL CULVERTS ARE TO HAVE RIP-RAP INSTALLED AT OUTLET POINTS AS SEEN IN STORM CONSTRUCTION DRAWINGS.

**PROJECT INFO:**

BASE SURFACE: EXISTING-FULL VOLUME. COMPARISON SURFACE: FILING-4-FG VOLUME.

CUT FACTOR: 1.00  
 FILL FACTOR: 1.15  
 CUT VOLUME(ADJUSTED): 82678.57 CUBIC YARDS  
 FILL VOLUME(ADJUSTED): 87623.31 CUBIC YARDS  
 NET VOLUME(ADJUSTED): 4944.74(FILL) CUBIC YARDS

CUT FACTOR: 1.00  
 FILL FACTOR: 1.00  
 CUT VOLUME(UNADJUSTED): 82678.57 CUBIC YARDS  
 FILL VOLUME(UNADJUSTED): 76194.18 CUBIC YARDS  
 NET VOLUME(UNADJUSTED): 6484.39(FILL) CUBIC YARDS

LOC - LIMITS OF CONSTRUCTION (ENTIRE FILING PERIMETER CONTROL) = 185.80 AC  
 LOD - LIMITS OF DISTURBANCE (ROADWAYS, UTILITIES, GRADING) = 33.71 AC

**TABLE 1.1 - CHECK DAM SPACING**

| SLOPE @ CHANNEL FLOWLINE (%) | MAX SPACING (FEET) |
|------------------------------|--------------------|
| 0.5 - 0.75                   | 200                |
| 0.75 - 1                     | 150                |
| 1 - 1.25                     | 120                |
| 1.25 - 1.5                   | 100                |
| 1.5 - 1.75                   | 85                 |
| 1.75 - 2                     | 75                 |

UNPLATTED PROPERTY  
 OWNER: SUNDANCE RANCH OF BLACK FOREST  
 SCH. NO. 5100000508  
 ZONING: RR-5  
 ~35.1 AC.

UNPLATTED PROPERTY  
 OWNER: SUNDANCE RANCH OF BLACK FOREST  
 SCH. NO. 5100000507  
 ZONING: RR-5  
 ~35.1 AC.

TEMPORARY SEDIMENT BASIN  
 RISER PIPE, 100 LF @ 2.6%  
 DAYLIGHT AT INV. EL. 7543.50

SED BASIN E  
 RISER PIPE INV.  
 EL AT BEND: 7545.63  
 1 COLUMN OF ORIFICES,  
 4 ORIFICES TOTAL: 1/2" IN DIA. EA.  
 ROW 1 ORIFICE EL. 7546.34  
 ROW 2 ORIFICE EL. 7546.67  
 ROW 3 ORIFICE EL. 7547.00  
 ROW 4 ORIFICE EL. 7547.33

TEMPORARY SEDIMENT BASIN E  
 TOTAL TRIBUTARY AREA: 8.3 AC  
 DISTURBED AREA: 0.9 AC  
 UNDISTURBED AREA: 7.4 AC  
 SEDIMENT VOL: 0.16 AC-FT  
 BASIN VOL: 0.22 AC-FT  
 BTM. OF POND: 7546.00  
 CREST EL.: 7549.00  
 TOP OF POND EL.: 7550.00  
 SPILLWAY: 6'W x 16'L

TEMPORARY SEDIMENT BASIN B  
 TO BE GRADED TO FINISHED POND ELEVATIONS  
 PER CONSTRUCTION DRAWINGS.

TOTAL TRIBUTARY AREA: 17.5 AC  
 DISTURBED AREA: 2.6 AC  
 UNDISTURBED AREA: 14.8 AC  
 SEDIMENT VOL: 0.33 AC-FT  
 BASIN VOL: 2.05 AC-FT  
 BTM. OF POND: 7526.00  
 CREST EL.: 7528.00  
 TOP OF POND EL.: 7529.00  
 SPILLWAY PER FINISHED POND  
 EMERGENCY SPILLWAY (68'W BY 32'L)

TEMPORARY SEDIMENT BASIN  
 RISER PIPE, 105 LF @ 1.1%  
 DAYLIGHT AT INV. EL. 7524.00

SED BASIN B  
 RISER PIPE INV.  
 EL AT BEND: 7526.00  
 RISER PIPE INFO:  
 2 COLUMNS OF ORIFICES,  
 6 ORIFICES TOTAL: 1-1/2" IN DIA. EA.  
 ROW 1 ORIFICE EL. 7526.41  
 ROW 2 ORIFICE EL. 7526.74  
 ROW 3 ORIFICE EL. 7527.07

SED BASIN B  
 TRIB. AREA: 17.5 AC

DRAWN BY: AMC JOB DATE: 10/31/2024  
 APPROVED: RDL JOB NUMBER: 211030.240  
 CAD DATE: 10/31/2024  
 CAD FILE: J:\2021\211030\CAD\DWG\C\Filing\_No\_4\GEC\GEC-Initial-Interim

| NO. | DATE | BY | REVISION DESCRIPTION |
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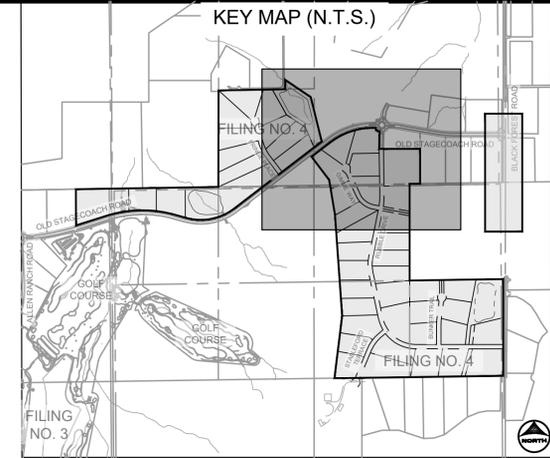
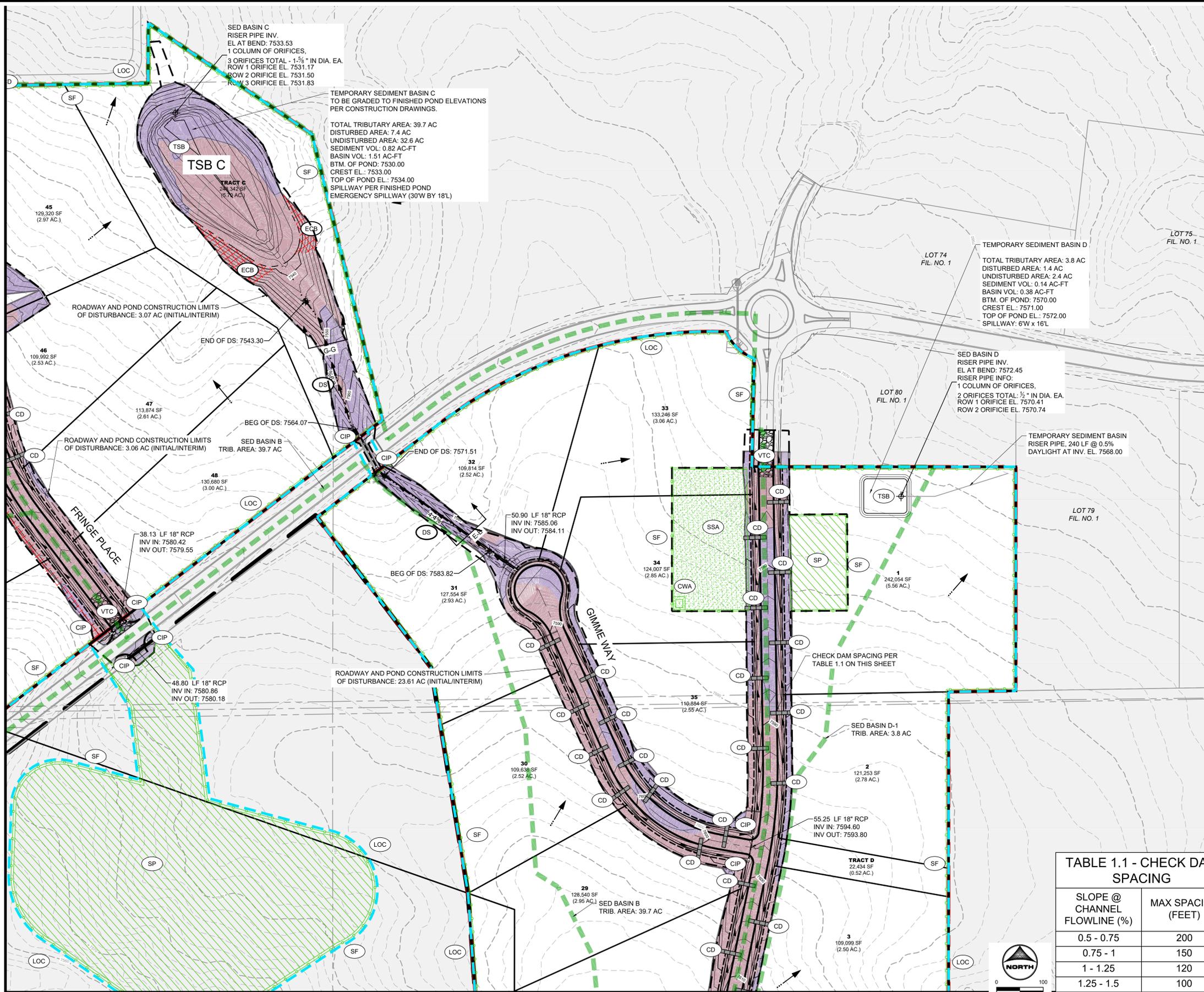
**HRGreen**  
 HR GREEN - COLORADO SPRINGS  
 1975 RESEARCH PARKWAY SUITE 160  
 COLORADO SPRINGS, CO 80920  
 PHONE: 719.300.4140 FAX: 719.965.0044

FLYING HORSE NORTH FILING 4  
 PRI #2, LLC.  
 EL PASO COUNTY, CO

GRADING & EROSION CONTROL PLAN  
 INITIAL & INTERIM GEC

SHEET GEC 3





**GEC LEGEND:**

|     |   |     |   |
|-----|---|-----|---|
| SF  | SILT FENCE                                      | IP  | INLET PROTECTION: IP-1 TO BE USED ON ALL INLETS |
| SSA | STABILIZED STAGING AREA                         | CIP | CULVERT INLET PROTECTION                        |
| SP  | STOCKPILE MANAGEMENT                            | VTC | VEHICLE TRACKING CONTROL                        |
| IP  | INLET PROTECTION: IP-1 TO BE USED ON ALL INLETS | DS  | DRAINAGE SWALE                                  |
| CIP | CULVERT INLET PROTECTION                        | LOC | LIMITS OF CONSTRUCTION                          |
| VTC | VEHICLE TRACKING CONTROL                        | LD  | LIMITS OF DISTURBANCE                           |
| DS  | DRAINAGE SWALE                                  | CC  | CUT CONDITION                                   |
| LOC | LIMITS OF CONSTRUCTION                          | FC  | FILL CONDITION                                  |
| LD  | LIMITS OF DISTURBANCE                           | FD  | FLOW DIRECTION                                  |
| CC  | CUT CONDITION                                   | ECB | EROSION CONTROL BLANKET                         |
| FC  | FILL CONDITION                                  | CD  | CHECK DAM (STRAW BALE)                          |
| FD  | FLOW DIRECTION                                  | CWA | CONCRETE WASH OUT                               |
| ECB | EROSION CONTROL BLANKET                         | TSB | TEMPORARY SEDIMENT BASIN                        |
| CD  | CHECK DAM (STRAW BALE)                          | TSB | TSB TRIBUTARY AREA DELINEATION                  |
| CWA | CONCRETE WASH OUT                               |     |   |
| TSB | TEMPORARY SEDIMENT BASIN                        |     |   |
| TSB | TSB TRIBUTARY AREA DELINEATION                  |     |   |

**PHASE:**

|                       |
|-----------------------|
| INITIAL/INTERIM       |
| INITIAL/INTERIM       |
| INITIAL/INTERIM       |
| INTERIM               |
| INTERIM               |
| INITIAL               |
| INTERIM               |
| INITIAL/INTERIM/FINAL |
| INITIAL/INTERIM/FINAL |
| INITIAL/INTERIM/FINAL |
| INTERIM/FINAL         |
| INTERIM               |
| INITIAL               |
| INITIAL               |

- GRADING & EROSION CONTROL PLAN NOTES:**
- SEE SHEETS 11-12 FOR EL PASO COUNTY GRADING AND EROSION CONTROL DETAILS.
  - ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS PLAN MUST BE INSTALLED AND MAINTAINED PER THE EL PASO COUNTY STORMWATER CONSTRUCTION MANUAL; LATEST REVISIONS.
  - AREA WITHIN LIMITS OF DISTURBANCE TO BE CLEARED, GRUBBED AND STOCKPILED PRIOR TO IMPORT OF ANY FILL.
  - ALL GREATER THAN 4:1 SLOPES MUST BE RECEIVE SLOPE TRACKING TREATMENT AND EROSION CONTROL BLANKET.
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  - NON-STRUCTURAL CONTROLS (I.E. STREET SWEEPING) WILL BE AT THE DISCRETION OF THE PROJECT'S CERTIFIED GEC ADMINISTRATOR THROUGHOUT THE DURATION OF LAND DISTURBING ACTIVITIES.
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  - THERE ARE NO EXISTING PRESERVATION EASEMENTS LOCATED ON SITE.
  - ONSITE EXISTING VEGETATION IS NATIVE GRASSES AND WEEDS. THERE IS NO NOTABLE VEGETATION OTHERWISE.
  - THE NATURAL TERTIARY SWALE THROUGH LOTS 16 AND 17 IS PLATTED AS A PUBLIC DRAINAGE EASEMENT WITH A VARIED WIDTH. THE EASEMENT IS TO HAVE TMAX TRM INSTALLED WITH PERMANENT SEEDING. ALL OTHER NATURAL TERTIARY SWALES DO NOT REQUIRE TRM AND ARE NOT TO BE DISTURBED. AREAS REQUIRING ROLLMAX TRM (TMAX OR P300) ARE CALLED OUT ON THE PLANS AND ARE AREAS NEAR POND CONCRETE RUNDOWNS OR ROADSIDE SWALES. SEE THE PERMANENT CHANNEL LINING PROVIDED ON SHEET 2.
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  - ALL CULVERTS ARE TO HAVE RIP-RAP INSTALLED AT OUTLET POINTS AS SEEN IN STORM CONSTRUCTION DRAWINGS.

**PROJECT INFO:**

BASE SURFACE: EXISTING-FULL VOLUME. COMPARISON SURFACE: FILING-4-FG

CUT FACTOR: 1.00  
 FILL FACTOR: 1.15  
 CUT VOLUME(ADJUSTED): 82678.57 CUBIC YARDS  
 FILL VOLUME(ADJUSTED): 87623.31 CUBIC YARDS  
 NET VOLUME(ADJUSTED): 4944.74(FILL) CUBIC YARDS

CUT FACTOR: 1.00  
 FILL FACTOR: 1.00  
 CUT VOLUME(UNADJUSTED): 82678.57 CUBIC YARDS  
 FILL VOLUME(UNADJUSTED): 76194.18 CUBIC YARDS  
 NET VOLUME(UNADJUSTED): 6484.39(FILL) CUBIC YARDS

LOC - LIMITS OF CONSTRUCTION (ENTIRE FILING PERIMETER CONTROL) = 185.80 AC  
 LOD - LIMITS OF DISTURBANCE (ROADWAYS, UTILITIES, GRADING) = 33.71 AC

**TABLE 1.1 - CHECK DAM SPACING**

| SLOPE @ CHANNEL FLOWLINE (%) | MAX SPACING (FEET) |
|------------------------------|--------------------|
| 0.5 - 0.75                   | 200                |
| 0.75 - 1                     | 150                |
| 1 - 1.25                     | 120                |
| 1.25 - 1.5                   | 100                |
| 1.5 - 1.75                   | 85                 |
| 1.75 - 2                     | 75                 |

MATCHLINE SEE SHEET 3

MATCHLINE SEE SHEET 6

MATCHLINE SEE SHEET 5

HR GREEN - COLORADO SPRINGS 1975 RESEARCH PARKWAY SUITE 160 COLORADO SPRINGS, CO 80920 PHONE: 719.300.4140 FAX: 713.965.0044

BAR IS ONE INCH ON OFFICIAL DRAWINGS.  
 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

| NO. | DATE | BY | REVISION DESCRIPTION |
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**HRGreen**

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 1975 RESEARCH PARKWAY SUITE 160  
 COLORADO SPRINGS, CO 80920  
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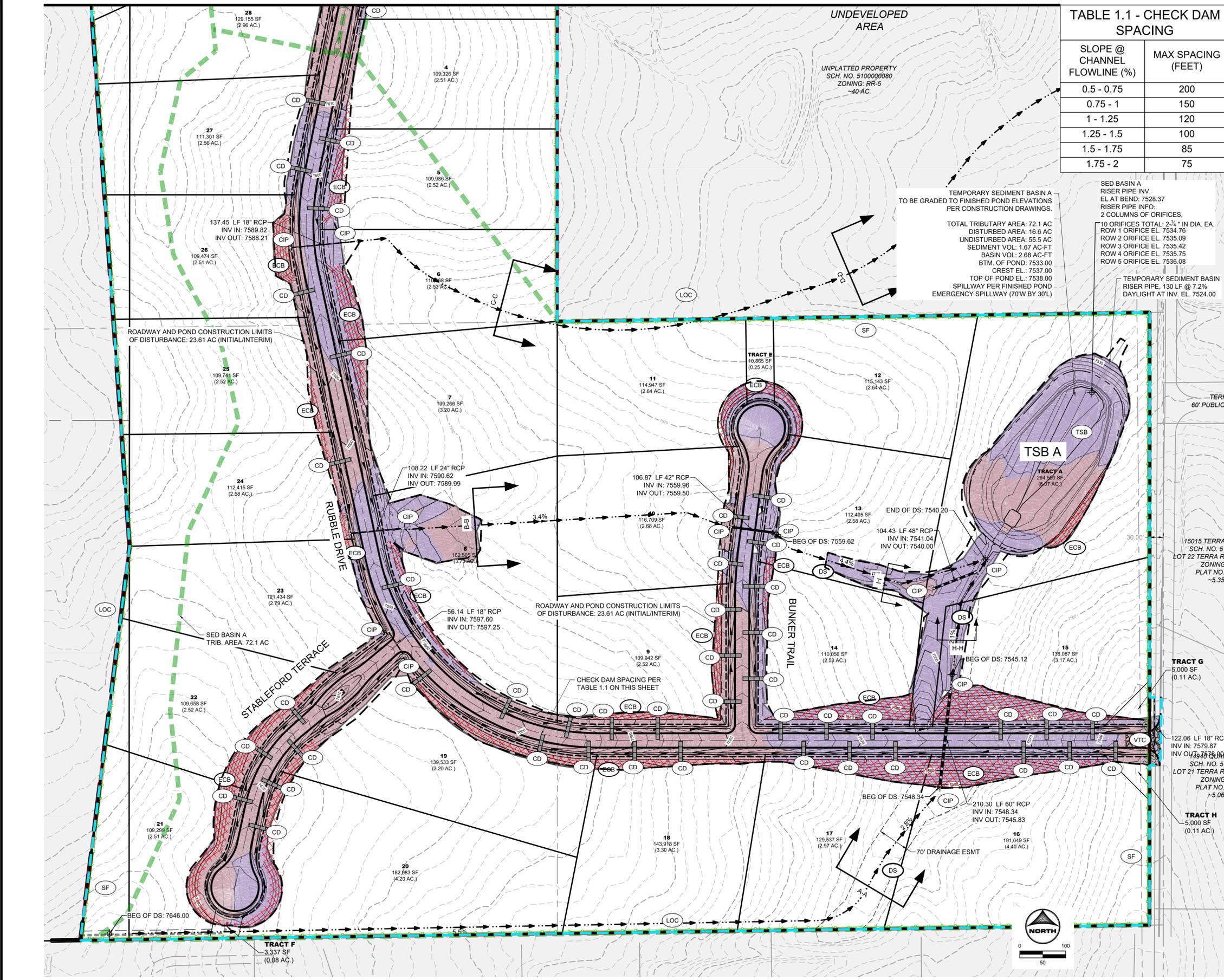
**FLYING HORSE NORTH FILING 4  
 PRI #2, LLC.**  
 EL PASO COUNTY, CO

**GRADING & EROSION CONTROL PLAN  
 INITIAL & INTERIM GEC**

**SHEET  
 GEC  
 4**



MATCHLINE SEE SHEET 4



**TABLE 1.1 - CHECK DAM SPACING**

| SLOPE @ CHANNEL FLOWLINE (%) | MAX SPACING (FEET) |
|------------------------------|--------------------|
| 0.5 - 0.75                   | 200                |
| 0.75 - 1                     | 150                |
| 1 - 1.25                     | 120                |
| 1.25 - 1.5                   | 100                |
| 1.5 - 1.75                   | 85                 |
| 1.75 - 2                     | 75                 |

UNDEVELOPED AREA  
UNPLATTED PROPERTY  
SCH. NO. 5100000080  
ZONING: RR-5  
-40 AC.

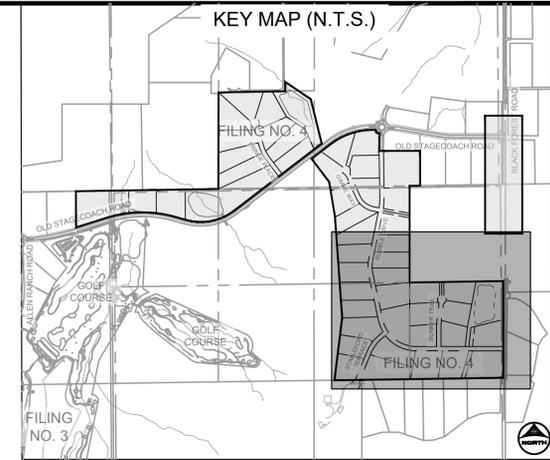
TEMPORARY SEDIMENT BASIN A  
TO BE GRADED TO FINISHED POND ELEVATIONS  
PER CONSTRUCTION DRAWINGS.

TOTAL TRIBUTARY AREA: 72.1 AC  
DISTURBED AREA: 16.6 AC  
UNDISTURBED AREA: 55.5 AC  
SEDIMENT VOL: 2.68 AC-FT  
BASIN VOL: 2.68 AC-FT  
BTM. OF POND: 7533.00  
CREST EL.: 7537.00  
TOP OF POND EL.: 7538.00  
SPILLWAY PER FINISHED POND  
EMERGENCY SPILLWAY (70'W BY 30'L)

SED BASIN A  
RISER PIPE INV.: 7528.37  
RISER PIPE INT'D  
2 COLUMNS OF ORIFICES.

10 ORIFICES TOTAL: 2 1/2" IN DIA. EA.  
ROW 1 ORIFICE EL. 7534.76  
ROW 2 ORIFICE EL. 7535.09  
ROW 3 ORIFICE EL. 7535.42  
ROW 4 ORIFICE EL. 7535.75  
ROW 5 ORIFICE EL. 7536.08

TEMPORARY SEDIMENT BASIN  
RISER PIPE, 130 LF @ 7.2%  
DAYLIGHT AT INV. EL. 7524.00



- GEC LEGEND:**
- SF SILT FENCE
  - SSA STABILIZED STAGING AREA
  - SP STOCKPILE MANAGEMENT
  - IP INLET PROTECTION: IP-1 TO BE USED ON ALL INLETS
  - CIP CULVERT INLET PROTECTION
  - VTC VEHICLE TRACKING CONTROL
  - DS DRAINAGE SWALE
  - LOC LIMITS OF CONSTRUCTION
  - LID LIMITS OF DISTURBANCE
  - CUT CUT CONDITION
  - FILL FILL CONDITION
  - FC FLOW DIRECTION
  - ECB EROSION CONTROL BLANKET
  - CD CHECK DAM (STRAW BALE)
  - CWA CONCRETE WASH OUT
  - TSB TEMPORARY SEDIMENT BASIN
  - TSD TSB TRIBUTARY AREA DELINEATION
- PHASE:**
- INITIAL/INTERIM
  - INITIAL/INTERIM
  - INITIAL/INTERIM
  - INTERIM
  - INTERIM
  - INITIAL
  - INTERIM
  - INITIAL/INTERIM/FINAL
  - INITIAL/INTERIM/FINAL
  - INITIAL
  - INTERIM/FINAL
  - INTERIM
  - INITIAL
  - INITIAL

- GRADING & EROSION CONTROL PLAN NOTES:**
- SEE SHEETS 11-12 FOR EL PASO COUNTY GRADING AND EROSION CONTROL DETAILS.
  - ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS PLAN MUST BE INSTALLED AND MAINTAINED PER THE EL PASO COUNTY STORMWATER CONSTRUCTION MANUAL; LATEST REVISIONS.
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  - ALL GREATER THAN 4:1 SLOPES MUST RECEIVE SLOPE TRACKING TREATMENT AND EROSION CONTROL BLANKET.
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  - THERE ARE NO ANTICIPATED ASPHALT AND/OR CONCRETE BATCH PLANTS, OR MASONRY MIX STATIONS ASSOCIATED WITH THIS PROJECT. IF THE CONTRACTOR REQUIRES A ASPHALT/CONCRETE BATCH PLANTS OR MASONRY MIX STATIONS, THESE PLANS WILL BE AMENDED AS REQUIRED.
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  - ALL CULVERTS ARE TO HAVE RIP-RAP INSTALLED AT OUTLET POINTS AS SEEN IN STORM CONSTRUCTION DRAWINGS.

**PROJECT INFO:**

BASE SURFACE: EXISTING-FULL VOLUME  
COMPARISON SURFACE: FILING-4-FG

CUT FACTOR: 1.00  
FILL FACTOR: 1.15  
CUT VOLUME(ADJUSTED): 82678.57 CUBIC YARDS  
FILL VOLUME(ADJUSTED): 87623.31 CUBIC YARDS  
NET VOLUME(ADJUSTED): 4944.74(FILL) CUBIC YARDS

CUT FACTOR: 1.00  
FILL FACTOR: 1.00  
CUT VOLUME(UNADJUSTED): 82678.57 CUBIC YARDS  
FILL VOLUME(UNADJUSTED): 76194.18 CUBIC YARDS  
NET VOLUME(UNADJUSTED): 6484.39(FILL) CUBIC YARDS

LOC - LIMITS OF CONSTRUCTION (ENTIRE FILING PERIMETER CONTROL) = 185.80 AC

LID - LIMITS OF DISTURBANCE (ROADWAYS, UTILITIES, GRADING) = 33.71 AC

PROFESSIONAL ENGINEER  
53921  
PCD FILE NO.: SF2422

DRAWN BY: AMC JOB DATE: 10/31/2024  
APPROVED: RDL JOB NUMBER: 211030.240  
CAD DATE: 10/31/2024  
CAD FILE: J:\2021\211030\CAD\DWG\C\Filing\_No\_4\GEC\GEC-Initial-Interim

BAR IS ONE INCH ON OFFICIAL DRAWINGS.  
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

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**HRGreen**  
HR GREEN - COLORADO SPRINGS  
1975 RESEARCH PARKWAY SUITE 160  
COLORADO SPRINGS, CO 80920  
PHONE: 719.300.4140  
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**FLYING HORSE NORTH FILING 4  
PRI #2, LLC.**  
EL PASO COUNTY, CO

**GRADING & EROSION CONTROL PLAN**  
INITIAL & INTERIM GEC

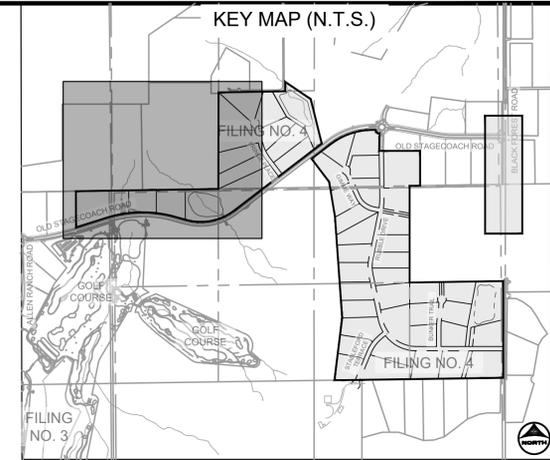
**SHEET GEC 5**





UNPLATTED PROPERTY  
OWNER: SUNDANCE RANCH OF BLACK FOREST  
SCH. NO. 5100000508  
ZONING: RR-5  
~35.1 AC.

UNPLATTED PROPERTY  
OWNER: SUNDANCE RANCH OF BLACK FOREST  
SCH. NO. 5100000507  
ZONING: RR-5  
~35.1 AC.



| GEC LEGEND: |     | PHASE:                             |               |
|-------------|-----|------------------------------------|---------------|
|             | TRM | TURF REINFORCED MAT                | FINAL         |
|             | SM  | SEEDING & MULCHING                 | FINAL         |
|             | DS  | DRAINAGE SWALE                     |               |
|             | LOD | LIMITS OF CONSTRUCTION/DISTURBANCE |               |
|             |     | FLOW DIRECTION                     |               |
|             | ECB | EROSION CONTROL BLANKET            | INTERIM/FINAL |

**GRADING & EROSION CONTROL PLAN NOTES:**

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**PROJECT INFO:**

VOLUME:  
BASE SURFACE: EXISTING-FULL      COMPARISON SURFACE: FILING-4-FG

CUT FACTOR: 1.00  
FILL FACTOR: 1.15  
CUT VOLUME(ADJUSTED): 82678.57 CUBIC YARDS  
FILL VOLUME(ADJUSTED): 87623.31 CUBIC YARDS  
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LOC - LIMITS OF CONSTRUCTION (ENTIRE FILING PERMETER CONTROL) = 185.80 AC  
LOD - LIMITS OF DISTURBANCE (ROADWAYS, UTILITIES, GRADING) = 33.71 AC



PCD FILE NO.: SF2422

|  |                        |  |
|--|------------------------|--|
| DRAWN BY: AMC  | JOB DATE: 10/31/2024   | BAR IS ONE INCH ON OFFICIAL DRAWINGS.      |
| APPROVED: RDL  | JOB NUMBER: 211030.240 | 0" = 1"                                    |
| CAD DATE: 10/31/2024   |                        | IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY. |
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EL PASO COUNTY, CO

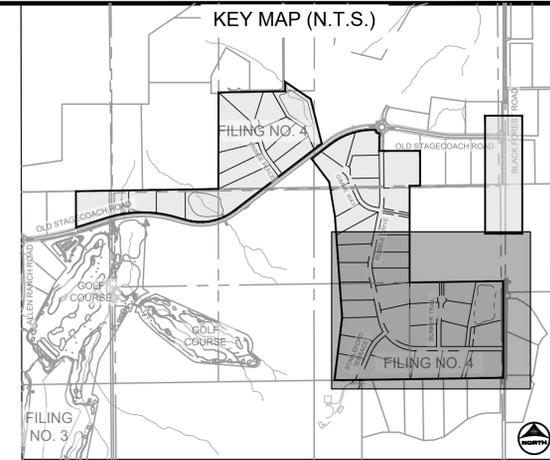
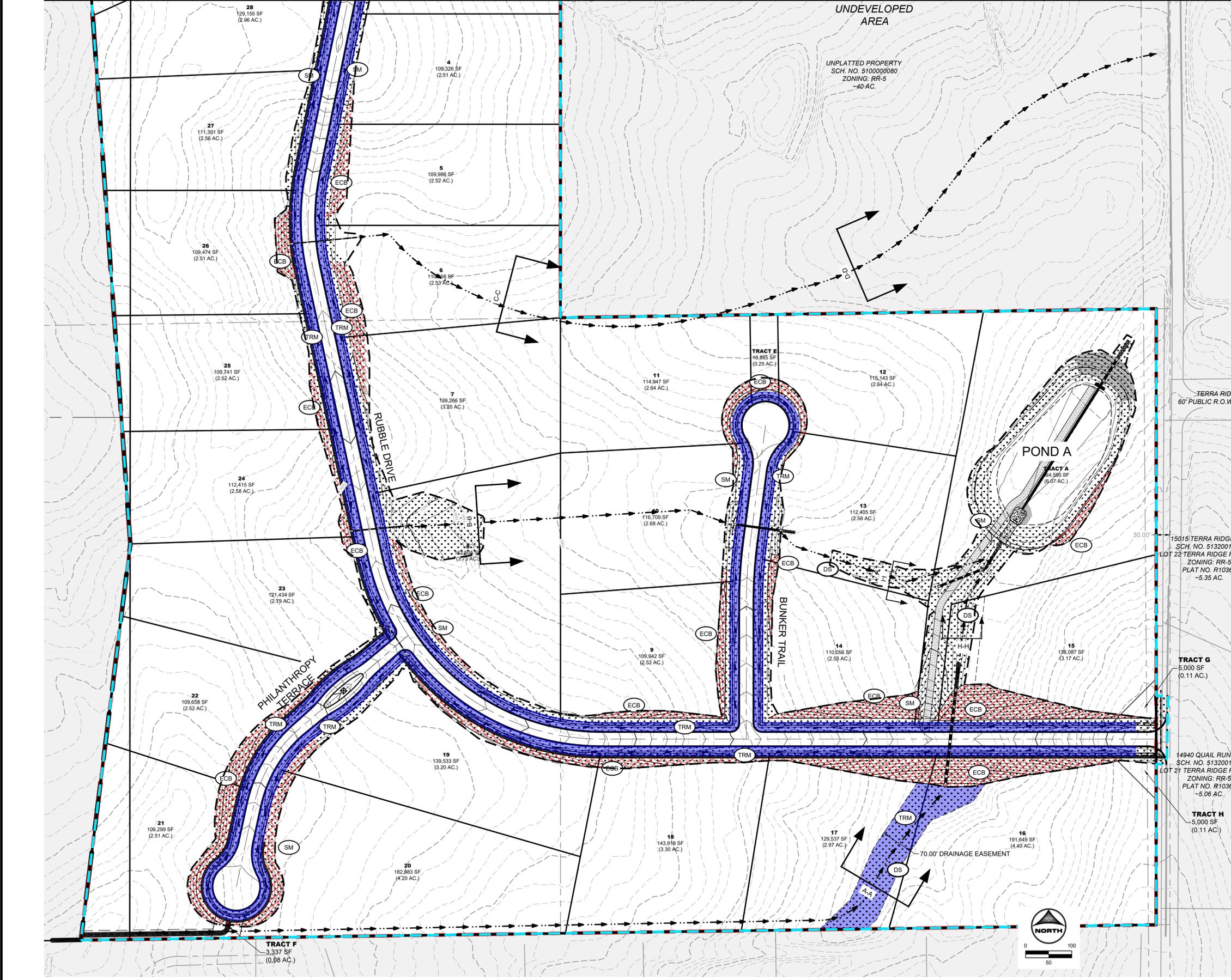
GRADING & EROSION CONTROL PLAN  
FINAL GEC

SHEET  
GEC  
7



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MATCHLINE SEE SHEET 8



| GEC LEGEND: |     | PHASE:                             |               |
|-------------|-----|------------------------------------|---------------|
|             | TRM | TURF REINFORCED MAT                | FINAL         |
|             | SM  | SEEDING & MULCHING                 | FINAL         |
|             | DS  | DRAINAGE SWALE                     |               |
|             | LOD | LIMITS OF CONSTRUCTION/DISTURBANCE |               |
|             |     | FLOW DIRECTION                     |               |
|             | ECB | EROSION CONTROL BLANKET            | INTERIM/FINAL |

**GRADING & EROSION CONTROL PLAN NOTES:**

- SEE SHEETS 11-12 FOR EL PASO COUNTY GRADING AND EROSION CONTROL DETAILS.
- ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS PLAN MUST BE INSTALLED AND MAINTAINED PER THE EL PASO COUNTY STORMWATER CONSTRUCTION MANUAL, LATEST REVISIONS.
- AREA WITHIN LIMITS OF DISTURBANCE TO BE CLEARED, GRUBBED AND STOCKPILED PRIOR TO IMPORT OF ANY FILL.
- ALL GREATER THAN 4:1 SLOPES MUST RECEIVE SLOPE TRACKING TREATMENT AND EROSION CONTROL BLANKET.
- STOCKPILES REQUIRED DURING ONSITE CONSTRUCTION ACTIVITIES WILL BE PLACED AT THE DISCRETION OF THE CONTRACTOR; STOCKPILING OF MATERIAL MUST NOT OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN.
- NON-STRUCTURAL CONTROLS (I.E. STREET SWEEPING) WILL BE AT THE DISCRETION OF THE PROJECT'S CERTIFIED GEC ADMINISTRATOR THROUGHOUT THE DURATION OF LAND DISTURBING ACTIVITIES.
- THERE ARE NO ANTICIPATED ASPHALT AND/OR CONCRETE BATCH PLANTS, OR MASONRY MIX STATIONS ASSOCIATED WITH THIS PROJECT. IF THE CONTRACTOR REQUIRES AN ASPHALT/CONCRETE BATCH PLANTS OR MASONRY MIX STATIONS, THESE PLANS WILL BE AMENDED AS REQUIRED.
- THERE ARE NO EXISTING PRESERVATION EASEMENTS LOCATED ON SITE.
- ON-SITE EXISTING VEGETATION IS NATIVE GRASSES AND WEEDS. THERE IS NO NOTABLE VEGETATION OTHERWISE.
- THE NATURAL TERTIARY SWALE THROUGH LOTS 16 AND 17 IS PLATTED AS A PUBLIC DRAINAGE EASEMENT WITH A VARIED WIDTH. THE EASEMENT IS TO HAVE TMAX TRM INSTALLED WITH PERMANENT SEEDING. ALL OTHER NATURAL TERTIARY SWALES DO NOT REQUIRE TRM AND ARE NOT TO BE DISTURBED. AREAS REQUIRING ROLLMAX TRM (TMAX OR P300) ARE CALLED OUT ON THE PLANS AND ARE AREAS NEAR POND CONCRETE RUNDOWNS OR ROADSIDE SWALES. SEE THE PERMANENT CHANNEL LINING PROVIDED ON SHEET 2.
- ALL ROADSIDE DITCHES ARE TO HAVE PERMANENT TRM (ROLLMAX P300 OR EQUIV.) INSTALLED.
- ALL CULVERTS ARE TO HAVE RIP-RAP INSTALLED AT OUTLET POINTS AS SEEN IN STORM CONSTRUCTION DRAWINGS.

**PROJECT INFO:**

VOLUME:  
 BASE SURFACE: EXISTING-FULL      COMPARISON SURFACE: FILING-4-FG  
 CUT FACTOR: 1.00  
 FILL FACTOR: 1.15  
 CUT VOLUME(ADJUSTED): 82678.57 CUBIC YARDS  
 FILL VOLUME(ADJUSTED): 87623.31 CUBIC YARDS  
 NET VOLUME(ADJUSTED): 4944.74(FILL) CUBIC YARDS  
 CUT FACTOR: 1.00  
 FILL FACTOR: 1.00  
 CUT VOLUME(UNADJUSTED): 82678.57 CUBIC YARDS  
 FILL VOLUME(UNADJUSTED): 76194.18 CUBIC YARDS  
 NET VOLUME(UNADJUSTED): 6484.39(FILL) CUBIC YARDS

LOC - LIMITS OF CONSTRUCTION (ENTIRE FILING PERMETER CONTROL) = 185.80 AC  
 LOD - LIMITS OF DISTURBANCE (ROADWAYS, UTILITIES, GRADING) = 33.71 AC



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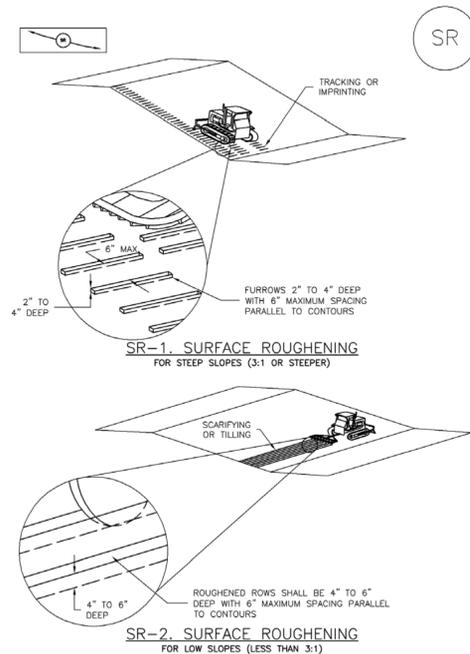
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**GRADING & EROSION CONTROL PLAN**  
**FINAL GEC**  
**SHEET GEC 9**



Surface Roughening (SR) EC-1



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

Mulching (MU) EC-4

Description

Mulching consists of evenly applying straw, hay, shredded wood mulch, rock, bark or compost to disturbed soils and securing the mulch by crimping, tackifiers, netting or other measures.



Photograph MU-1. An area that was recently seeded, mulched, and crimped.

Mulch can be applied either using standard mechanical dry application methods or using hydromulching equipment that hydraulically applies a slurry of water, wood fiber mulch, and often a tackifier.

Appropriate Uses

Use mulch in conjunction with seeding to help protect the seedbed and stabilize the soil. Mulch can also be used as a temporary cover on low to mild slopes to help temporarily stabilize disturbed areas where growing season constraints prevent effective reseeding.

Standard dry mulching is encouraged in most jurisdictions; however, hydromulching may not be allowed in certain jurisdictions or may not be allowed near waterways.

Do not apply mulch during windy conditions.

Design and Installation

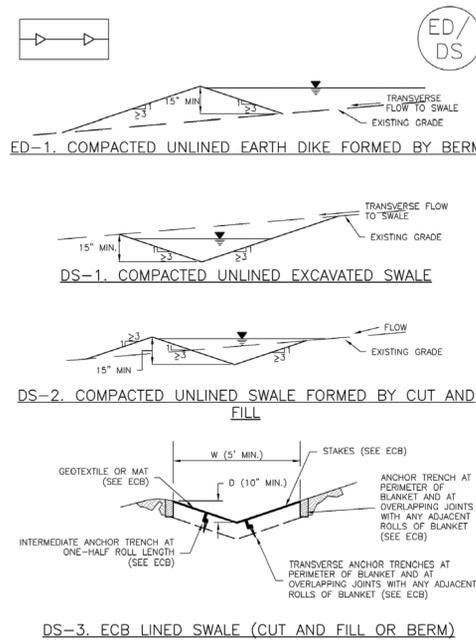
Prior to mulching, surface-roughen areas by rolling with a crimping or punching type roller or by track walking. Track walking should only be used where other methods are impractical because track walking with heavy equipment typically compacts the soil.

A variety of mulches can be used effectively at construction sites. Consider the following:

Table with 2 columns: Functions, Mulch. Rows include Erosion Control (Yes), Sediment Control (Moderate), and Site/Material Management (No).

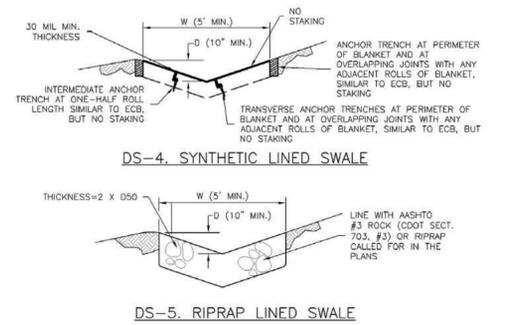
June 2012 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 MU-1

Earth Dikes and Drainage Swales (ED/DS) EC-10



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 ED/DS-3

EC-10 Earth Dikes and Drainage Swales (ED/DS)

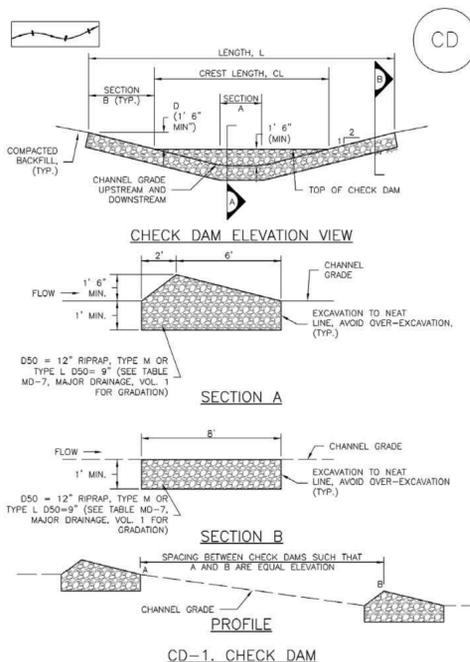


EARTH DIKE AND DRAINAGE SWALE INSTALLATION NOTES

- 1. SEE SITE PLAN FOR: LOCATION OF DIVERSION SWALE, TYPE OF SWALE (UNLINED, COMPACTED AND/OR LINED), LENGTH OF EACH SWALE, DEPTH, D, AND WIDTH, W DIMENSIONS, FOR ECB/TRM LINED DITCH, SEE ECB DETAIL, FOR RIPRAP LINED DITCH, SIZE OF RIPRAP, D50.
2. SEE DRAINAGE PLANS FOR DETAILS OF PERMANENT CONVEYANCE FACILITIES AND/OR DIVERSION SWALES EXCEEDING 2-YEAR FLOW RATE OR 10 CFS.
3. EARTH DIKES AND SWALES INDICATED ON SWMP PLAN SHALL BE INSTALLED PRIOR TO LAND-DISTURBING ACTIVITIES IN PROXIMITY.
4. EMBANKMENT IS TO BE COMPACTED TO 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D698.
5. SWALES ARE TO DRAIN TO A SEDIMENT CONTROL BMP.
6. FOR LINED DITCHES, INSTALLATION OF ECB/TRM SHALL CONFORM TO THE REQUIREMENTS OF THE ECB DETAIL.
7. WHEN CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION SWALE, INSTALL A TEMPORARY CULVERT WITH A MINIMUM DIAMETER OF 12 INCHES.

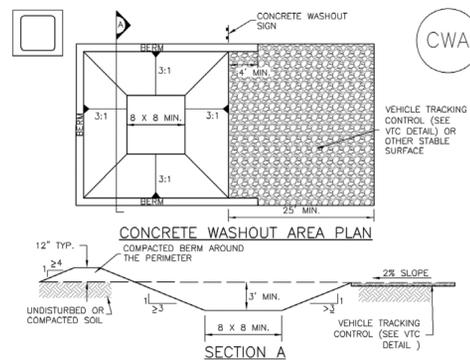
ED/DS-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Check Dams (CD) EC-12



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

Concrete Washout Area (CWA) MM-1

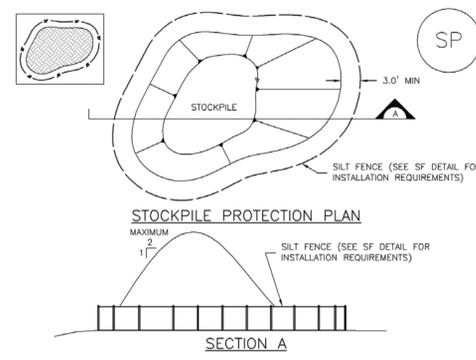


CWA INSTALLATION NOTES

- 1. SEE PLAN VIEW FOR: CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (1.6 MIL. MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRUCKS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

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

Stockpile Management (SP) MM-2



STOCKPILE PROTECTION INSTALLATION NOTES

- 1. SEE PLAN VIEW FOR: LOCATION OF STOCKPILES, TYPE OF STOCKPILE PROTECTION.
2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDING AND MULCHING WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADE CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

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GRADING & EROSION CONTROL PLAN DETAILS

SHEET DT 11



Good Housekeeping Practices (GH)

MM-3

Description

Implement construction site good housekeeping practices to prevent pollution associated with solid, liquid and hazardous construction-related materials and wastes.



Photographs GH-1 and GH-2. Proper materials storage and secondary containment for fuel tanks are important good housekeeping practices.

- Provide for waste management.
Establish proper building material staging areas.
Designate paint and concrete washout areas.
Establish proper equipment/vehicle fueling and maintenance practices.
Control equipment/vehicle washing and allowable non-stormwater discharges.
Develop a spill prevention and response plan.

Acknowledgement: This Fact Sheet is based directly on EPA guidance provided in Developing Your Stormwater Pollution Prevention Plan (EPA 2007).

Appropriate Uses

Good housekeeping practices are necessary at all construction sites.

Design and Installation

The following principles and actions should be addressed in SWMPs:

- Provide for Waste Management. Implement management procedures and practices to prevent or reduce the exposure and transport of pollutants in stormwater from solid, liquid and sanitary wastes that will be generated at the site.

Solid or Construction Waste

- Designate trash and bulk waste-collection areas on-site.

Table with 2 columns: Functions, Good Housekeeping. Rows include Erosion Control, Sediment Control, and Site/Material Management.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 GH-1

Good Housekeeping Practices (GH)

- Recycle materials whenever possible (e.g., paper, wood, concrete, oil).
Segregate and provide proper disposal options for hazardous material wastes.
Clean up litter and debris from the construction site daily.
Locate waste-collection areas away from streets, gutters, watercourses, and storm drains.

Sanitary and Septic Waste

- Provide convenient, well-maintained, and properly located toilet facilities on-site.
Locate toilet facilities away from storm drain inlets and waterways to prevent accidental spills and contamination of stormwater.
Maintain clean restroom facilities and empty portable toilets regularly.
Where possible, provide secondary containment pans under portable toilets.
Provide tie-downs or stake-downs for portable toilets.
Educate employees, subcontractors, and suppliers on locations of facilities.
Treat or dispose of sanitary and septic waste in accordance with state or local regulations.
Inspect facilities for leaks. If found, repair or replace immediately.
Special care is necessary during maintenance (pump out) to ensure that waste and/or biocide are not spilled on the ground.

Hazardous Materials and Wastes

- Develop and implement employee and subcontractor education, as needed, on hazardous and toxic waste handling, storage, disposal, and cleanup.
Designate hazardous waste-collection areas on-site.
Place all hazardous and toxic material wastes in secondary containment.

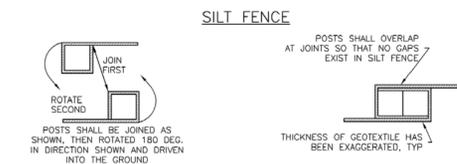
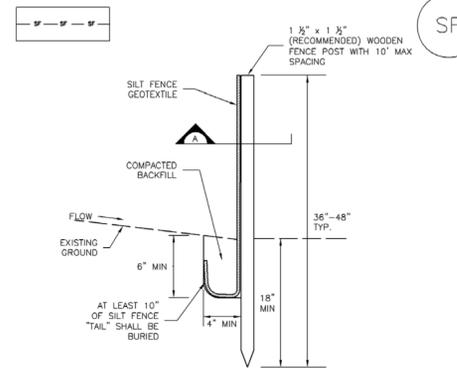


Photograph GH-3. Locate portable toilet facilities on level surfaces away from waterways and storm drains. Photo courtesy of WVE.

GH-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Silt Fence (SF)

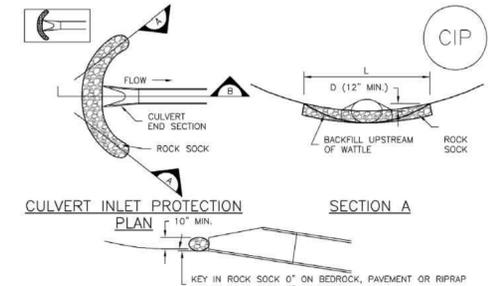
SC-1



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

Inlet Protection (IP)

SC-6



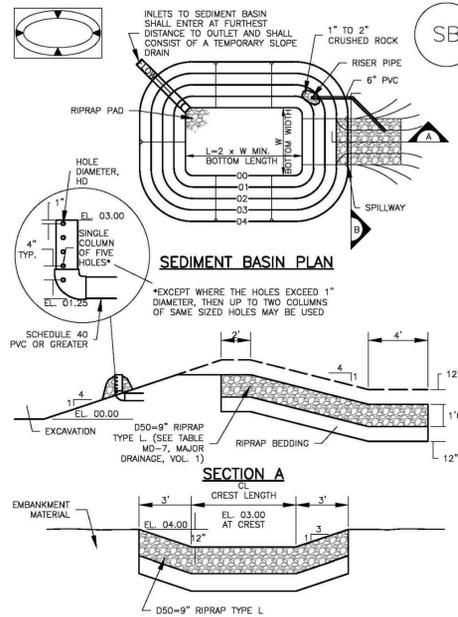
CIP-1. CULVERT INLET PROTECTION

- Installation notes: See plan view for location of culvert inlet protection. See rock sock design detail for rock gradation requirements and jointing detail.
Maintenance notes: Inspect BMPs each workday and maintain them in effective operating condition. Frequent observations and maintenance are necessary to maintain BMPs in effective operating condition.

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 IP-7

Sediment Basin (SB)

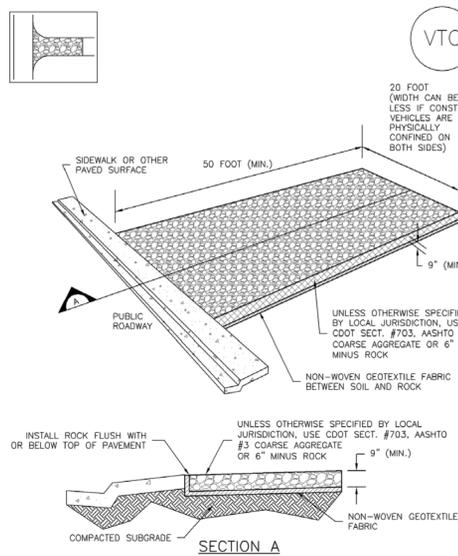
SC-7



August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-5

Vehicle Tracking Control (VTC)

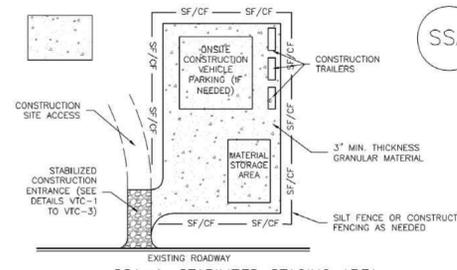
SM-4



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

Stabilized Staging Area (SSA)

SM-6



- Installation notes: See plan view for location of staging area(s). Contractor may adjust location and size of staging area with approval from the local jurisdiction.
Maintenance notes: Inspect BMPs each workday and maintain them in effective operating condition. Frequent observations and maintenance are necessary to maintain BMPs in effective operating condition.

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GRADING & EROSION CONTROL PLAN DETAILS

SHEET DT 12



