FLYING HORSE NORTH FILING NO. 3
INITIAL/ INTERIM/ FINAL
GRADING & EROSION CONTROL PLAN

A TRACT OF LAND BEING A PORTION OF SECTION 36 TOWNSHIP 11 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, AND A PORTION OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 11 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN COUNTY OF EL PASO, STATE OF COLORADO

LEGAL DESCRIPTION:

A TRACT OF LAND BEING A PORTION OF SECTION 36, TOWNSHIP 11 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, AND A PORTION OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 11 SOUTH, RANGE 65 WEST OF SIXTH PRINCIPAL MERIDIAN, THE BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS:

THE NORTH LINE OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 36, TOWNSHIP 11 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE WEST END BY A 1" YELLOW PLASTIC CAP STAMPED "18235" AND THE EAST END BY A 2" ALUMINUM CAP STAMPED "32439" WITH APPROPRIATE MARKINGS, IS ASSUMED TO BEAR N89°03'58"E A DISTANCE OF 1,332.09 FEET.

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 36, TOWNSHIP 11 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, SAID POINT BEING THE POINT OF BEGINNING; THENCE N00°14'34"W, ON THE WEST LINE OF SAID SECTION 36, A DISTANCE OF 1,120.17 FEET TO THE SOUTHWESTERLY CORNER OF SAID FLYING HORSE NORTH FILING NO. 1 AS RECORDED UNDER RECEPTION NO. 218714238;

THENCE ON THE SOUTHERLY BOUNDARY OF SAID FLYING HORSE NORTH FILING NO. 1 THE FOLLOWING NINE (9) COURSES:

1. S72°33'10"E A DISTANCE OF 134.21 FEET;
2. N40°01'04"E A DISTANCE OF 569.80 FEET;
3. N38°52'02"E A DISTANCE OF 60.00 FEET TO A POINT ON CURVE;
4. ON THE ARC OF A CURVE TO THE RIGHT WHOSE CENTER BEARS N38°52'02"E, HAVING A DELTA OF 48°03'23", A RADIUS OF 520.00 FEET, A DISTANCE OF 436.14 FEET TO A POINT ON CURVE;
5. N86°55'25"E A DISTANCE OF 49.85 FEET TO A POINT ON CURVE;
6. ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS N28°22'34"E, HAVING A DELTA OF 26°35'09", A RADIUS OF 60.00 FEET, A DISTANCE OF 27.84 FEET TO A POINT OF TANGENT;
7. S88°12'35"E A DISTANCE OF 210.24 FEET;
8. S59°10'55"E A DISTANCE OF 565.00 FEET TO A POINT OF CURVE;
9. ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 82°31'23", A RADIUS OF 60.00 FEET, A DISTANCE OF 86.42 FEET TO A POINT ON CURVE, SAID POINT BEING ON THE WESTERLY BOUNDARY OF FLYING HORSE NORTH FILING NO. 2 RECORDED UNDER RECEPTION NO. 222715009;

THENCE ON THE BOUNDARY OF SAID FLYING HORSE NORTH FILING NO. 2 THE FOLLOWING FOUR (4) COURSES:

1. S52°59'28"E A DISTANCE OF 282.69 FEET;
2. N31°14'50"E A DISTANCE OF 8.64 FEET TO A POINT OF CURVE;
3. ON THE ARC OF A CURVE TO THE RIGHT HAVING A DELTA OF 37°09'00", A RADIUS OF 231.00 FEET, A DISTANCE OF 149.78 FEET TO A POINT ON CURVE;
4. THENCE N21°50'10"W A DISTANCE OF 407.62 FEET TO A POINT ON CURVE SAID POINT BEING ON THE SOUTHERLY BOUNDARY OF SAID FLYING HORSE NORTH FILING NO. 1;

THENCE ON THE BOUNDARY OF SAID FLYING HORSE NORTH FILING NO. 1 THE FOLLOWING TWENTY-EIGHT (28) COURSES:

1. ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS N20°27'45"W, HAVING A DELTA OF 04°42'48", A RADIUS OF 180.00 FEET, A DISTANCE OF 14.81 FEET TO A POINT OF TANGENT;
2. N64°49'27"E A DISTANCE OF 387.40 FEET;
3. S69°37'09"E A DISTANCE OF 609.64 FEET TO A POINT ON CURVE;
4. ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS S53°58'28"E, HAVING A DELTA OF 17°58'26", A RADIUS OF 182.00 FEET, A DISTANCE OF 57.09 FEET TO A POINT OF TANGENT;
5. S18°03'07"W A DISTANCE OF 513.19 FEET TO A POINT OF CURVE;
6. ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 42°54'04", A RADIUS OF 180.00 FEET, A DISTANCE OF 134.78 FEET TO A POINT OF TANGENT;
7. S24°50'58"E A DISTANCE OF 794.30 FEET TO A POINT ON CURVE;
8. ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS N64°45'42"E, HAVING A DELTA OF 62°51'48", A RADIUS OF 60.00 FEET, A DISTANCE OF 65.83 FEET TO A POINT ON CURVE;
9. S28°40'51"E A DISTANCE OF 24.35 FEET TO A POINT ON CURVE;
10. ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS N10°33'41"W, HAVING A DELTA OF 11°46'40", A RADIUS OF 470.00 FEET, A DISTANCE OF 96.61 FEET TO A POINT ON CURVE;
11. N32°14'22"W A DISTANCE OF 83.48 FEET;
12. N07°36'57"W A DISTANCE OF 778.36 FEET;
13. N19°58'12"E A DISTANCE OF 445.86 FEET TO A POINT ON CURVE;
14. ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS N72°45'28"W, HAVING A DELTA OF 65°10'59", A RADIUS OF 180.00 FEET, A DISTANCE OF 204.78 FEET TO A POINT ON CURVE;
15. N05°55'12"E A DISTANCE OF 73.94 FEET TO A POINT OF CURVE;
16. ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 66°48'26", A RADIUS OF 60.00 FEET, A DISTANCE OF 69.96 FEET TO A POINT OF TANGENT;
17. N60°53'14"W A DISTANCE OF 270.58 FEET;
18. N67°30'10"E A DISTANCE OF 203.94 FEET;
19. N18°26'34"E DISTANCE OF 216.03 FEET;
20. S49°40'30"E A DISTANCE OF 407.47 FEET TO A POINT OF CURVE;
21. ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 42°44'34", A RADIUS OF 260.00 FEET, A DISTANCE OF 193.96 FEET TO A POINT OF TANGENT;
22. N87°34'56"E A DISTANCE OF 570.22 FEET;
23. S01°27'54"W A DISTANCE OF 421.65 FEET;
24. S04°30'48"W A DISTANCE OF 138.74 FEET TO A POINT OF CURVE;
25. ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 122°48'28", A RADIUS OF 180.00 FEET, A DISTANCE OF 385.81 FEET TO A POINT ON CURVE;
26. S59°17'05"E A DISTANCE OF 59.71 FEET;
27. S09°25'47"E A DISTANCE OF 25.35 FEET TO A POINT OF CURVE;
28. ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 111°46'10", A RADIUS OF 60.00 FEET, A DISTANCE OF 117.04 FEET TO A POINT ON CURVE;

THENCE S35°14'00"E A DISTANCE OF 310.03 FEET TO A POINT ON CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS N65°06'43"W, HAVING A DELTA OF 02°22'21", A RADIUS OF 470.00 FEET A DISTANCE OF 19.46 FEET TO A POINT OF TANGENT; THENCE N22°30'56"E A DISTANCE OF 152.89 FEET TO A POINT OF CURVE;
THENCE ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 17°59'00, A RADIUS OF 470.00 FEET A DISTANCE OF 147.52 FEET TO A POINT OF TANGENT;
THENCE N04°31'56"E A DISTANCE OF 244.95 FEET TO A POINT OF CURVE; THENCE ON THE ARC OF A CURVE TO THE RIGHT HAVING A DELTA OF 12°33'58", A RADIUS OF 530.00 FEET A DISTANCE OF 116.24 FEET TO A POINT OF TANGENT; THENCE N17°05'54"E A DISTANCE OF 216.15 FEET TO A POINT OF CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 17°54'41", A RADIUS OF 470.00 FEET A DISTANCE OF 146.93 FEET TO A POINT OF TANGENT; THENCE N00°48'47"W A DISTANCE OF 40.27 FEET TO A POINT OF CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 11°16'06", A RADIUS OF 187.00 FEET A DISTANCE OF 36.78 FEET TO A POINT OF REVERSE CURVE; THENCE ON THE ARC OF A CURVE TO THE RIGHT HAVING A DELTA OF 11°16'06", A RADIUS OF 228.00 FEET A DISTANCE OF 44.84 FEET TO A POINT OF TANGENT; THENCE N00°48'47"W A DISTANCE OF 10.02 FEET TO A POINT OF CURVE; THENCE ON THE ARC OF A CURVE TO THE RIGHT HAVING A DELTA OF 11°16'06", A RADIUS OF 228.00 FEET, A DISTANCE OF 44.84 FEET TO A POINT OF REVERSE CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 11°16'06", A RADIUS OF 187.00 FEET A DISTANCE OF 36.78 FEET TO A POINT OF TANGENT; THENCE N00°48'47"W A DISTANCE OF 209.02 FEET TO A POINT OF CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 32°57'06", A RADIUS OF 470.00 FEET A DISTANCE OF 270.30 FEET TO A POINT OF TANGENT; THENCE N33°45'53"W A DISTANCE OF 496.37 FEET TO A POINT OF CURVE;
THENCE ON THE ARC OF A CURVE TO THE RIGHT HAVING A DELTA 22°00'35", A RADIUS OF 530.00 FEET A DISTANCE OF 203.60 FEET TO A POINT ON CURVE SAID POINT BEING THE SOUTHWEST CORNER OF ALLEN RANCH DRIVE AS PLATTED IN SAID FLYING HORSE NORTH FILING NO. 1; THENCE ON THE BOUNDARY LINE OF SAID FLYING HORSE FILING NO. 1, THE FOLLOWING TWENTY-TWO (22) COURSES:

1. N78°14'42"E A DISTANCE OF 60.00 FEET TO A POINT ON CURVE;
2. ON THE ARC OF A CURVE TO THE RIGHT WHOSE CENTER BEARS N78°14'42"E, HAVING A DELTA OF 07°44'47", A RADIUS OF 470.00 FEET A DISTANCE OF 63.54 FEET TO A POINT ON CURVE;
3. N88°03'35"E A DISTANCE OF 162.46 FEET;
4. S27°57'38"W A DISTANCE OF 123.86 FEET TO A POINT ON CURVE;
5. ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS S55°48'13"E, HAVING A DELTA OF 79°31'17", A RADIUS OF 60.00 FEET, A DISTANCE OF 83.27 FEET TO A POINT OF TANGENT;
6. S45°19'30"E A DISTANCE OF 529.41 FEET;
7. N43°38'05"E A DISTANCE OF 217.42 FEET;
8. S47°25'19"E A DISTANCE OF 125.23 FEET;
9. S12°39'47"W A DISTANCE OF 431.89 FEET TO A POINT ON CURVE;
10. ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS S78°44'16"E, HAVING DELTA OF 101°02'05", A RADIUS OF 180.00 FEET, A DISTANCE OF 317.41 FEET TO A POINT ON CURVE;
11. S36°07'10"E A DISTANCE OF 51.40 FEET;
12. S25°28'43"W A DISTANCE OF 583.21 FEET;
13. S11°05'37"W A DISTANCE OF 649.91 FEET;
14. S01°45'55"W A DISTANCE OF 367.28 FEET TO A POINT ON CURVE;
15. ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS S82°45'19"E, HAVING A DELTA OF 27°10'25", A RADIUS OF 206.15 FEET, A DISTANCE OF 97.77 FEET TO A POINT ON CURVE;
16. S44°23'58"W A DISTANCE OF 446.26 FEET;
17. N78°50'05"W A DISTANCE OF 682.24 FEET;
18. S89°54'56"W A DISTANCE OF 681.31 FEET;
19. N39°18'58"W A DISTANCE OF 58.41 FEET TO A POINT ON CURVE;
20. ON THE ARC OF A CURVE TO THE RIGHT WHOSE CENTER BEARS N42°37'31"W, HAVING A DELTA OF 24°06'18", A RADIUS OF 530.00 FEET, A DISTANCE OF 222.98 FEET TO A POINT ON CURVE;
21. S63°45'49"E A DISTANCE OF 50.01 FEET;
22. THENCE S02°21'44"E A DISTANCE OF 263.10 FEET;

THENCE CONTINUING S02°21'44"E A DISTANCE OF 120.00 FEET TO THE SOUTH QUARTER CORNER OF SAID SECTION 36; THENCE S89°20'35"W ON THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 36, A DISTANCE OF 2,674.50 FEET TO THE POINT OF BEGINNING.

CONTAINING A CALCULATED AREA OF 170.554 ACRES.

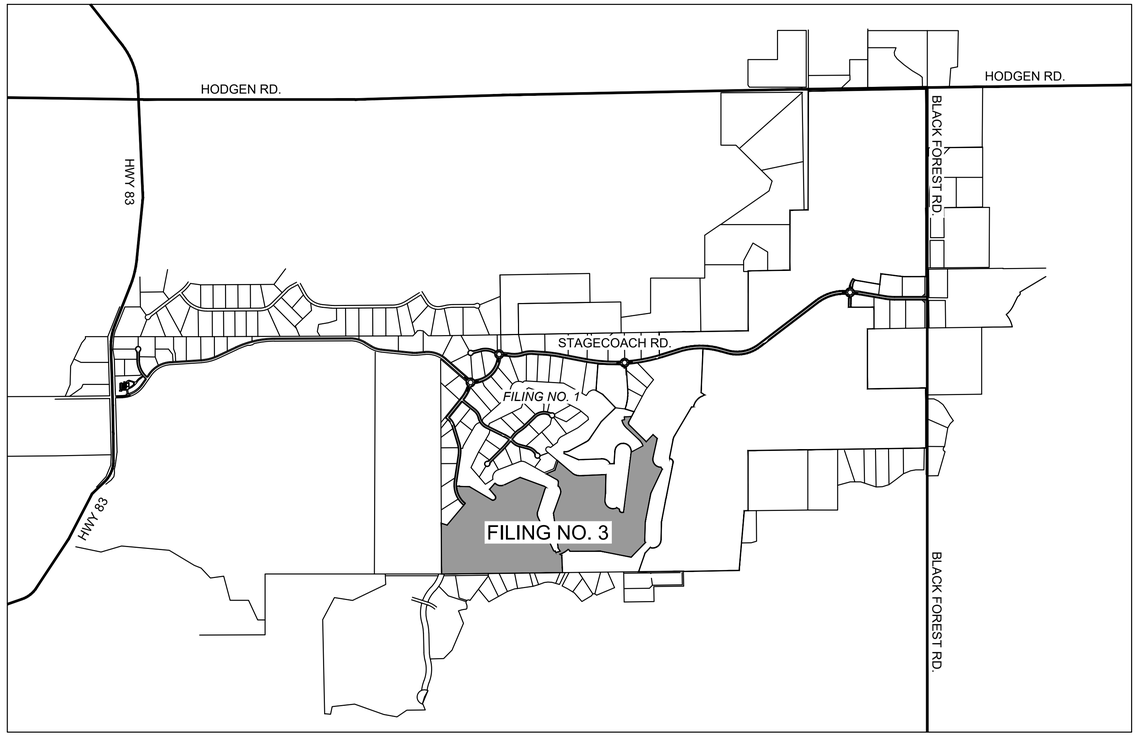
TOGETHER WITH TRACT J AND TRACT L AS PLATTED FLYING HORSE NORTH FILING NO. 1, RECORDED UNDER RECEPTION NUMBER 218714238.

CONTAINING A CALCULATED AREA OF 120.231 ACRES.

TOGETHER WITH LOT 1 AS PLATTED FLYING HORSE NORTH FILING NO. 2, RECORDED UNDER RECEPTION NUMBER 222715009.

CONTAINING A CALCULATED AREA OF 2.898 ACRES.

FLYNG HORSE FILING 3, CONTAINS A TOTAL CALCULATED AREA OF 293.683 ACRES.



VICINITY MAP
NOT TO SCALE

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	COVER
2	LEGEND & NOTES
3	INITIAL & INTERIM GEC
4	INITIAL & INTERIM GEC
5	INITIAL & INTERIM GEC
6	FINAL GEC
7	FINAL GEC
8	FINAL GEC
9	CHANNEL SECTIONS
10	CHANNEL SECTIONS
11	DETAILS
12	DETAILS
13	DETAILS

NORTH

COLORADO LICENSED
KENNETH M. HUHN
54022
05/16/2024
PROFESSIONAL ENGINEER

ENGINEER'S STATEMENT

THIS GRADING AN EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE 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 NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARING THIS PLAN

Ken Huhn — 05/16/2024
KENNETH M. HUHN, P.E. — DATE
KHUHN@HRGREEN.COM
COLORADO P.E. 0054022

OWNER/DEVELOPER'S STATEMENT:

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

OWNER'S SIGNATURE — 05/16/2024 DATE
PRI #2, LLC

EL PASO COUNTY

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, DIMENSIONS, AND/ OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY 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 AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF 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 DIRECTORS DISCRETION.

Gilbert LaForce, P.E. — Digitally signed by Gilbert LaForce, P.E. Reason: On Behalf of the County Engineer Date: 2024.07.08 14:10:31 -06'00' — 07/08/2024
JOSHUA PALMER P.E. — DATE
COUNTY ENGINEER

PCD FILE: SF2326

DRAWN BY:	AXB
APPROVED:	KMH
CAD DATE:	5/14/2024
CAD FILE:	J:\2021\211030\CAD\Dwgs\C\Estates_CDs\GEC\GEC_Cover
JOB DATE:	4/10/2024
JOB NUMBER:	211030

BAR IS ONE INCH ON OFFICIAL DRAWINGS. 0 — 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION

HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH FILING NO. 3
PRI #2, LLC
EL PASO COUNTY, CO

GRADING & EROSION CONTROL PLAN
COVER

SHEET CV

1

GRADING AND EROSION CONTROL NOTES:

1. 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.
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 CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCIITNG 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.
4. 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.
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 COMPLETION OF THE DISTURBANCE.
6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATION 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.
7. 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
8. 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.
9. 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.
10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES HALL 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.
11. 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 ARES DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S)
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 SEDIMENT OFF SITE.
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 SURFACE WATER BODY, CREEK OR STREAM.
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 BLANKET 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 THIS 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 PROPERLY AND PROPERLY DISPOSED OF IMMEDIATELY.
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 APPURTENANCES AS A RESULT OF THE SITE DEVELOPMENT.
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 AN EAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABEL.
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 CHEMICAL(S) SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. 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.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
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 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.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. 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.
28. THE SOILS REPORT FOR THE SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. DATED AUGUST 23, 2023 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. 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

ABBREVIATIONS

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

LEGEND

	EXISTING	PROPOSED
MATCH LINE		
PHASE LINE		
SECTION LINE		
PROPERTY LINE		
EASEMENT LINE		
RIGHT OF WAY		
CENTERLINE		
CHAIN LINK FENCE		
WOODEN FENCE		
ROD IRON FENCE		
GUARDRAIL		
CABLE TV	TV	TV
U.G. ELECTRIC	UE	UE
OVERHEAD ELECTRIC	OE	OE
FIBER OPTIC	FO	FO
GAS MAIN		
SANITARY SEWER	SS	
STORM DRAIN		
TELEPHONE	UT	UT
WATER MAIN	W	W
SWALE		
TRAIL		
CURB & GUTTER		
DRAINAGE BASIN		
INDEX CONTOUR		
INTER. CONTOUR		
100-YR FLOODPLAIN		
FLOODWAY		
EDGE OF WETLANDS		

DRAINAGE

	EXISTING	PROPOSED
DRAINAGE BASIN		
BASIN TAG		I.D. AREA
DESIGN POINT		

METRO DISTRICTS

- DISTRICT NO. 1
- DISTRICT NO. 2
- DISTRICT NO. 3
- DISTRICT NO. 4
- DISTRICT NO. 5

STORM SEWER

	EXISTING	PROPOSED
MANHOLE		
STORM INLET		
FLARED END SECTION		
RIPRAP		

SANITARY SEWER

CLEAN OUT	
MANHOLE	
PLUG	

WATER

FIRE HYDRANT	
FIRE DEPT. CONNECTION	
GATE VALVE	
MANHOLE	
METER	
TEE	
REDUCER	

DRY UTILITIES

ELECTRIC METER	
ELECTRIC PEDESTAL	
ELECTRICAL CABINET	
ELECTRIC VAULT	
FIBER OPTIC PULL BOX	
FIBER OPTIC MANHOLE	
FIBER OPTIC PEDESTAL	
FIBER OPTIC SIGN	
FIBER OPTIC VAULT	
GAS METER	
GAS SIGN	
GAS VAULT	
TELEPHONE CABINET	
TELEPHONE MANHOLE	
TELEPHONE SIGNAL/MAST	
TELEPHONE SIGN	
TELEPHONE PEDESTAL	
TRANSFORMER	
LIGHT POLE	
FIBER OPTIC VAULT	

MISCELLANEOUS

SIGN	
BOLLLARD	
ACCESSIBLE PARKING	

COLORADO LICENSED
KENNETH M. KLEIN
Kenneth M. Klein
54022
05/16/2024
PROFESSIONAL ENGINEER

PCD FILE: SF2326

DRAWN BY: AXB	JOB DATE: 4/10/2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS.	
APPROVED: KMH	JOB NUMBER: 211030	0 1"	
CAD DATE: 5/14/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.	
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NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH FILING NO. 3
PRI #2, LLC
EL PASO COUNTY, CO

GRADING & EROSION CONTROL PLAN
LEGEND & NOTES

SHEET LE

2

FILING 1

FLYING HORSE NORTH FILING NO. 3 BNDY

EXISTING GOLF COURSE

FLYING HORSE NORTH FILING NO. 2 REC. NO. 6136004041

PRIVATE GOLF COURSE POND FACILITIES

LOT 6 AREA: 2.75 AC (14681)

SED BASIN C
RISER PIPE INV.
EL AT BEND: 7484.45
RISER PIPE INFO:
1 COLUMN OF ORIFICES,
4 ORIFICES TOTAL: ¾-IN. DIA. EA.
ROW 1 ORIFICE EL. 7485.78
ROW 2 ORIFICE EL. 7486.11
ROW 3 ORIFICE EL. 7486.44
ROW 4 ORIFICE EL. 7486.77

LOT 7 AREA: 3.23 AC (14631)

FILING 3 LOT 1 AREA: 2.77 AC (14981)

LOT 4 AREA: 3.01 AC (14781)

LOT 5 AREA: 2.90 AC (14731)

TEMPORARY SEDIMENT BASIN
RISER PIPE, 40 LF @ 1.0%
DAYLIGHT AT INV. EL. 7398.00

SED BASIN D-1
RISER PIPE INV.
EL AT BEND: 7398.41
RISER PIPE INFO:
1 COLUMN OF ORIFICES,
4 ORIFICES TOTAL: 1⅛ -IN. DIA. EA.
ROW 1 ORIFICE EL. 7399.74
ROW 2 ORIFICE EL. 7400.07
ROW 3 ORIFICE EL. 7400.40
ROW 4 ORIFICE EL. 7400.73

SED BASIN D-1 TRIB. AREA: 7.4 AC.

END OF DD: 7402.00

LOT 2 AREA: 2.57 (14931)

TEMPORARY SEDIMENT BASIN D-1

TOTAL TRIBUTARY AREA: 7.4 AC
DISTURBED AREA: 2.2 AC
UNDISTURBED AREA: 5.2 AC
SEDIMENT VOL: 0.24 AC-FT
BASIN VOL: 0.24 AC-FT
BTM. OF POND: 7398.00
CREST EL.: 7401.00
TOP OF POND EL.: 7402.00
SPILLWAY: 18'W x 16'L

BEG. OF DD: 7403.04

BEG. OF DD: 7402.85

LOT 3 AREA: 2.51 (14831)

CHECK DAM SPACING PER TABLE 1.1 ON THIS SHEET

FIBER OPTIC VAULT (3)

EXUTILITY EASEMENT RN 222106844

LOT 8 AREA: 2.52 AC (14

PARCEL NO: 6136004037
OWNER: FLYING HORSE COUNTY CLUB LLC

LOT 27 AREA: 2.51 AC (14782)

END OF DD: 7401.00

TEMPORARY SEDIMENT BASIN D-2

TEMPORARY SEDIMENT BASIN
RISER PIPE, 40 LF @ 1.1%
DAYLIGHT AT INV. EL. 7397.00

TOTAL TRIBUTARY AREA: 4.7 AC
DISTURBED AREA: 2.5 AC
UNDISTURBED AREA: 2.2 AC
SEDIMENT VOL: 0.23 AC-FT
BASIN VOL: 0.23 AC-FT
BTM. OF POND: 7397.00
CREST EL.: 7400.00
TOP OF POND EL.: 7401.00
SPILLWAY: 12'W x 16'L

SED BASIN D-2
RISER PIPE INV.
EL AT BEND: 7397.43
RISER PIPE INFO:
1 COLUMN OF ORIFICES,
4 ORIFICES TOTAL: 1⅛ -IN. DIA. EA.
ROW 1 ORIFICE EL. 7398.76
ROW 2 ORIFICE EL. 7399.09
ROW 3 ORIFICE EL. 7399.42
ROW 4 ORIFICE EL. 7399.75

LOT 31 AREA: 3.57 (14982)

EX ACCESS EASEMENT RN 222106844

SED BASIN D-2 TRIB. AREA: 4.7 AC.

148.25 LF 36" RCP
INV IN: 7463.74'
INV OUT: 7455.27'

TYPE L RIPRAP
D_{50}= 6", 12" DEPTH
(54.1 SY)

LOT 9 AREA: 2.51 AC (14531)

LOT 10 AREA: 2.51 AC (14481)

LOT 30 AREA: 3.09 (14932)

LOT 29 AREA: 3.00 (14882)

SED BASIN B
RISER PIPE INV.
EL AT BEND: 7368.08
RISER PIPE INFO:
2 COLUMNS OF ORIFICES,
16 ORIFICES TOTAL: 2-⅝ IN. DIA. EA.
ROW 1 ORIFICE EL. 7569.41
ROW 2 ORIFICE EL. 7569.74
ROW 3 ORIFICE EL. 7570.07
ROW 4 ORIFICE EL. 7570.40
ROW 5 ORIFICE EL. 7570.73
ROW 6 ORIFICE EL. 7571.06
ROW 7 ORIFICE EL. 7571.39
ROW 8 ORIFICE EL. 7571.72

SED BASIN B TRIB. AREA: 97.9 AC.

LOT 26 AREA: 2.67 (14532)

LOT 28 AREA: 2.96 AC (14832)

TEMPORARY SEDIMENT BASIN
RISER PIPE, 67 LF @ 5.3%
DAYLIGHT AT INV. EL. 7364.50

LOT 20 AREA: 3.55 AC (14130)

LOT 21 AREA: 2.65 AC (14190)

LOT 22 AREA: 3.01 AC (14250)

LOT 23 AREA: 2.87 AC (14310)

LOT 24 AREA: 2.90 AC (14430)

LOT 25 AREA: 2.56 AC (14490)

ROADWAY AND POND CONSTRUCTION LIMITS OF DISTURBANCE: 41.46 AC. (INITIAL, INTERIM)

LOT 11 AREA: 2.58 AC (14550)

TYPE L RIPRAP
D_{50}= 6", 12" DEPTH
(914.4 SY)

168.74 LF 48" RCP
INV IN: 7381.50'
INV OUT: 7377.18'

CHECK DAM SPACING PER TABLE 1.1 ON THIS SHEET

TRACT B AREA: 3.90 AC

157.39 LF DUAL 42" RCP AT 5.17%
INV IN: 7385.80'
INV OUT: 7377.18'

TYPE L RIPRAP
D_{50}= 6", 12" DEPTH
(317.7 SY)

TYPE L RIPRAP
D_{50}= 6", 12" DEPTH
(84.1 SY)

LOT 18 AREA: 2.50 AC (14251)

LOT 14 AREA: 2.50 AC (14491)

46.11 LF 24" RCP
INV IN: 7474.79'
INV OUT: 7474.48'

LOT 15 AREA: 2.50 AC (14431)

LOT 19 AREA: 2.50 AC (1419

ROW LINE

TEMPORARY SEDIMENT BASIN B
TO BE BUILT TO FINISHED POND
DESIGN PER CONSTRUCTION DRAWINGS.

TOTAL TRIBUTARY AREA: 97.9 AC
DISTURBED AREA: 26.2 AC
UNDISTURBED AREA: 71.7 AC
SEDIMENT VOL: 2.44 AC-FT
BASIN VOL: 7.44 AC-FT
BTM. OF POND: 7366.00
CREST EL.: 7376.50
TOP OF POND EL.: 7377.00
SPILLWAY PER FINISHED POND
EMERGENCY SPILLWAY (50'W BY 32'L)

ROADWAY AND POND CONSTRUCTION LIMITS OF DISTURBANCE: 41.46 AC. (INITIAL, INTERIM)

LOT 17 AREA: 2.50 AC (14311)

LOT 16 AREA: 2.50 AC (14371)

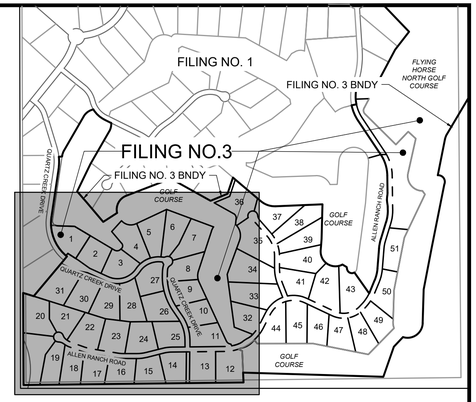
LOT 13 AREA: 2.77 AC (14551)

TRACT C AREA: 0.35 AC

(14519)

FLYING HORSE NORTH FILING NO. 3 BNDY

MATCHLINE SEE SHEET 4



GEC LEGEND:

		PHASE:
SF	SILT FENCE	INITIAL/INTERIM
SSA	STABILIZED STAGING AREA	INITIAL/INTERIM
SP	STOCKPILE MANAGEMENT	INITIAL/INTERIM
IP	INLET PROTECTION: IP-1 TO BE USED ON ALL INLETS	INTERIM
CIP	CULVERT INLET PROTECTION	INTERIM
VTC	VEHICLE TRACKING CONTROL	INITIAL
DD	DRAINAGE DITCH	
LOD	LIMITS OF CONSTRUCTION/ DISTURBANCE	
	CUT CONDITION	
	FILL CONDITION	
	FLOW DIRECTION	
	EX PROPERTY LINE	
	EX RIGHT OF WAY	
ECB	EROSION CONTROL BLANKET	INTERIM/FINAL
RS	ROCK SOCKS	INTERIM
CD	CHECK DAM (STRAW BALE)	
CWA	CONCRETE WASH OUT	INTERIM
TSB	TEMPORARY SEDIMENT BASIN	INITIAL
	CROSS-LOT DRAINAGE EASEMENT	
	TSB TRIBUTARY AREA DELINEATION	INITIAL

GRADING & EROSION CONTROL PLAN NOTES:

1. SEE SHEET 11 FOR EL PASO COUNTY GRADING AND EROSION CONTROL DETAILS.
2. ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS PLAN MUST BE INSTALLED AND MAINTAINED PER THE EL PASO COUNTY STORMWATER CONSTRUCTION MANUAL; LATEST REVISIONS.
3. AREA WITHIN LIMITS OF DISTURBANCE TO BE CLEARED, GRUBBED AND STOCKPILED PRIOR TO IMPORT OF ANY FILL.
4. ALL GREATER THAN 3:1 SLOPES MUST BE RECEIVE SLOPE TRACKING TREATMENT AND EROSION CONTROL BLANKET.
5. 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.
6. 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.
7. 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.
8. THERE ARE NO EXISTING PRESERVATION EASEMENTS LOCATED ON SITE.
9. ONSITE EXISTING VEGETATION IS NATIVE GRASSES AND WEEDS. THERE IS NO NOTABLE VEGETATION OTHERWISE.
10. ALL NATURAL CHANNELS TO HAVE ROLLMAX TMAX TRM (OR EQUIV.) INSTALLED AS NOTED ON PLANS ARE TO HAVE PERMANENT SEEDING AND MULCHING.
11. ALL ROADSIDE DITCHES ARE TO HAVE PERMANEN[illegible] MAX P300 OR EQUIV.) INSTALLED.
12. ALL CULVERTS ARE TO HAVE RIP-RAP INSTA[illegible] POINTS AS SEEN IN STORM CONSTRUCTION

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

PROJECT INFO:

CUT VOLUME: 157,379 CUBIC YARDS

FILL VOLUME: 99,813 CUBIC YARDS

NET 57,566 (CUT) CUBIC YARDS

PCD FILE: SF2326

COLORADO LICENSED
KENNETH M. BRUN
Kenneth M. Brun
54022
05/16/2024
PROFESSIONAL ENGINEER

NORTH
0 50 100

DRAWN BY: AXB
APPROVED: KMH
CAD DATE: 5/14/2024
CAD FILE: J:\2021\211030\CAD\Dwgs\C\Estates_CDs\GEC\GEC
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IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

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HRGreen
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

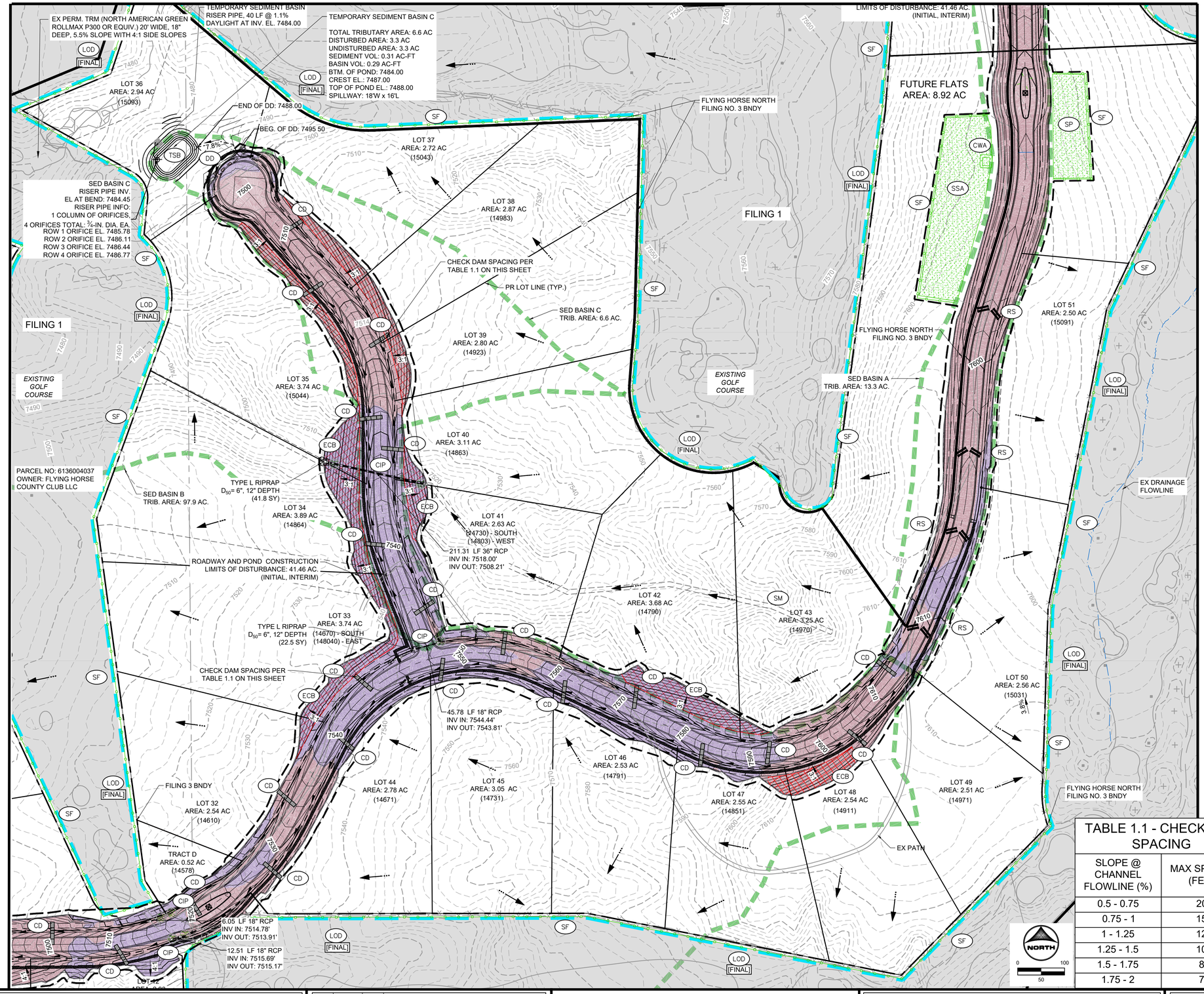
FLYING HORSE NORTH FILING NO. 3
PRI #2, LLC
EL PASO COUNTY, CO

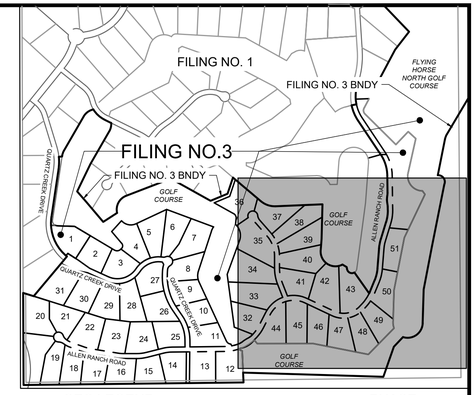
GRADING & EROSION CONTROL PLAN
INITIAL & INTERIM GEC

SHEET GEC 3

MATCHLINE SEE SHEET 3

MATCHLINE SEE SHEET 5





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COLORADO LICENSED KENNETH M. KMIN 54022 05/16/2024 PROFESSIONAL ENGINEER

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HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
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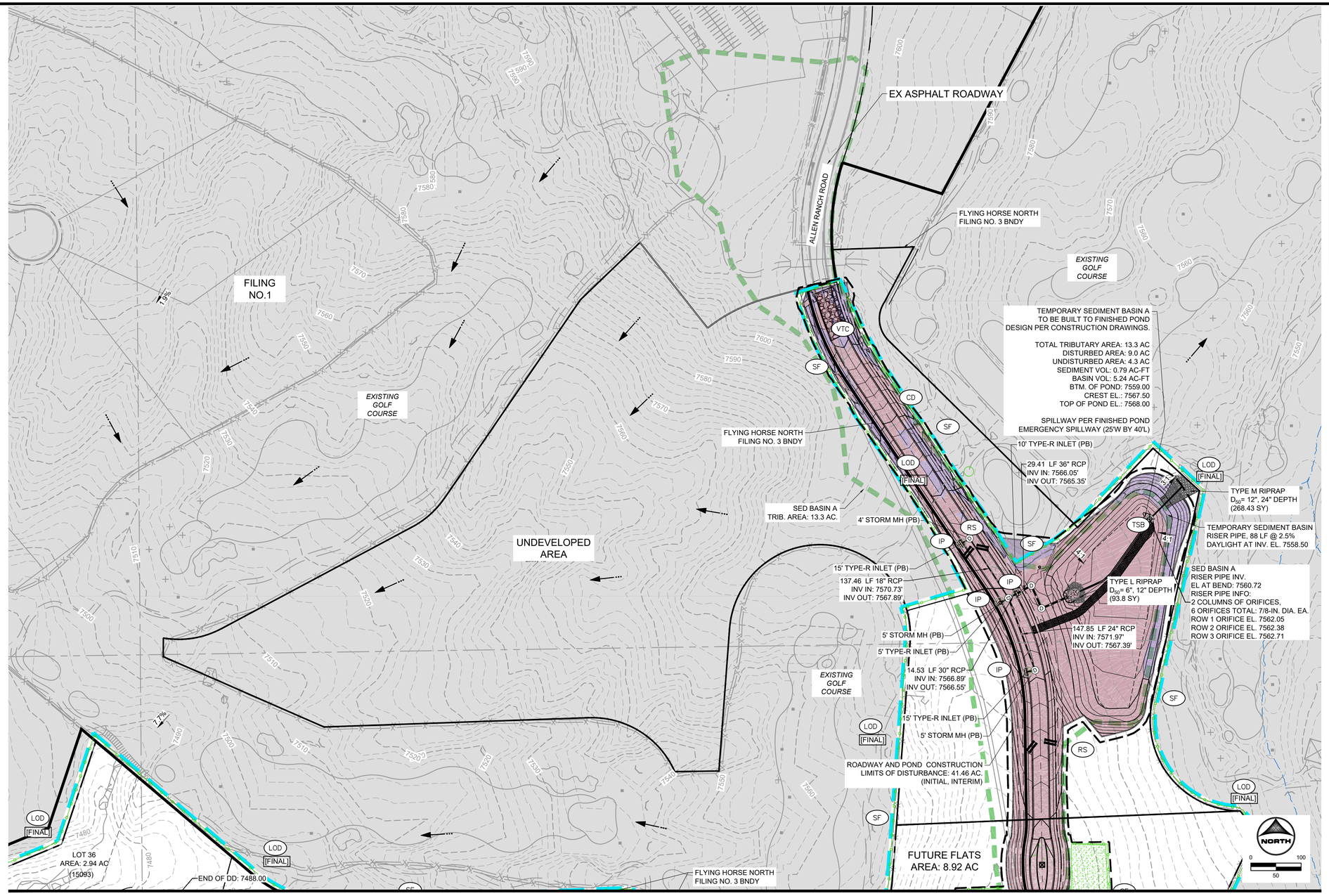
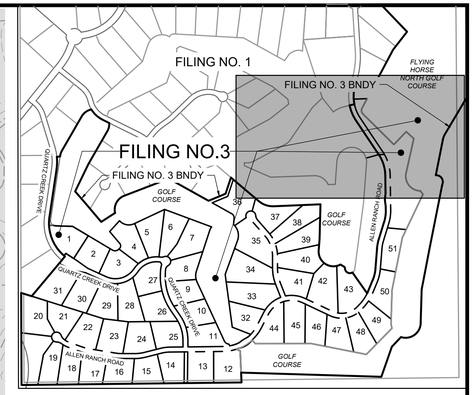
FLYING HORSE NORTH FILING NO. 3
PRI #2, LLC
EL PASO COUNTY, CO

GRADING & EROSION CONTROL PLAN
INITIAL & INTERIM GEC

SHEET GEC | 4





GEC LEGEND:

			PHASE:
	SF	SILT FENCE	INITIAL/INTERIM
	SSA	STABILIZED STAGING AREA	INITIAL/INTERIM
	SP	STOCKPILE MANAGEMENT	INITIAL/INTERIM
	IP	INLET PROTECTION: IP-1 TO BE USED ON ALL INLETS	INTERIM
	CIP	CULVERT INLET PROTECTION	INTERIM
	VTC	VEHICLE TRACKING CONTROL	INITIAL
	DD	DRAINAGE DITCH	
	LOD	LIMITS OF CONSTRUCTION/ DISTURBANCE	
		CUT CONDITION	
		FILL CONDITION	
		FLOW DIRECTION	
		EX PROPERTY LINE	
		EX RIGHT OF WAY	
	ECB	EROSION CONTROL BLANKET	INTERIM/FINAL
	RS	ROCK SOCKS	INTERIM
	CD	CHECK DAM (STRAW BALE)	
	CWA	CONCRETE WASH OUT	INTERIM
	TSB	TEMPORARY SEDIMENT BASIN	INITIAL
		CROSS-LOT DRAINAGE EASEMENT	
		TSB TRIBUTARY AREA DELINEATION	INITIAL

GRADING & EROSION CONTROL PLAN NOTES:

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2. ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS PLAN MUST BE INSTALLED AND MAINTAINED PER THE EL PASO COUNTY STORMWATER CONSTRUCTION MANUAL; LATEST REVISIONS.
3. AREA WITHIN LIMITS OF DISTURBANCE TO BE CLEARED, GRUBBED AND STOCKPILED PRIOR TO IMPORT OF ANY FILL.
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5. 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.
6. 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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8. THERE ARE NO EXISTING PRESERVATION EASEMENTS LOCATED ON SITE.
9. ONSITE EXISTING VEGETATION IS NATIVE GRASSES AND WEEDS. THERE IS NO NOTABLE VEGETATION OTHERWISE.
10. ALL NATURAL CHANNELS TO HAVE ROLLMAX TMAX TRM (OR EQUIV.) INSTALLED AS NOTED ON PLANS ARE TO HAVE PERMANENT SEEDING AND MULCHING.
11. ALL ROADSIDE DITCHES ARE TO HAVE PERMANENT TRM (ROLLMAX P300 OR EQUIV.) INSTALLED.
12. ALL CULVERTS ARE TO HAVE RIP-RAP INSTALLED AT OUTLET POINTS AS SEEN IN STORM CONSTRUCTION DRAWINGS.

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

PROJECT INFO:

CUT VOLUME: 157,379 CUBIC YARDS

FILL VOLUME: 99,813 CUBIC YARDS

NET 57,566 (CUT) CUBIC YARDS

COLORADO LICENSED KENNETH M. BLUE 54022 05/16/2024 PROFESSIONAL ENGINEER

PCD FILE: SF2326

DRAWN BY: AXB JOB DATE: 4/10/2024
APPROVED: KMH JOB NUMBER: 211030
CAD DATE: 5/14/2024
CAD FILE: J:\2021\211030\CAD\Dwgs\C\Estates_CDs\GEC\GEC

BAR IS ONE INCH ON OFFICIAL DRAWINGS. 0 1" IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH FILING NO. 3
PRI #2, LLC
EL PASO COUNTY, CO

GRADING & EROSION CONTROL PLAN
INITIAL & INTERIM GEC

SHEET GEC 5

FILING 1

PRIVATE GOLF COURSE WATER FEATURES

FLYING HORSE NORTH FILING NO. 3 BNDY

EXISTING GOLF COURSE

"FLYING HORSE NORTH FILING NO. 2" REC. NO. 6136004041

LOD [FINAL]

FILING 3 LOT 1 AREA: 2.77 AC (14981)

6.7%

LOT 2 AREA: 2.57 (14931)

LOT 3 AREA: 2.51 (14831)

LOT 4 AREA: 3.01 (14781)

LOT 4 AREA: 2.90 AC (14731)

LOT 6 AREA: 2.75 AC (14681)

LOT 7 AREA: 3.23 AC (14631)

INSTALL PERM. TRM (ROLLMAX TMAX OR EQUIV.) 10' WIDE, 9.40% SLOPE, 4:1 SIDE SLOPES, 340 LF

INSTALL PERM TRM (ROLLMAX TMAX OR EQUIV.) 15' WIDE, 5.5% SLOPE, 5:1 SIDE SLOPES, 340 LF

G-G

H-H

I-I

DD

TRM

ECB

FIBER OPTIC VAULT (3)

EX UTILITY EASEMENT RN 222106844

EX ACCESS EASEMENT RN 222106844

LOT 27 AREA: 2.51 AC (14782)

LOT 8 AREA: 2.52 AC (14581)

INSTALL PERM. TRM (ROLLMAX TMAX OR EQUIV.) 10' WIDE, 5.40% SLOPE, 6:1 SIDE SLOPES, 320 LF

PARCEL NO: 6136004037 OWNER: FLYING HORSE COUNTY CLUB LLC

LOT 31 AREA: 3.57 (14982)

LOT 30 AREA: 3.09 (14932)

LOT 29 AREA: 3.00 (14882)

LOT 28 AREA: 2.96 AC

148.25 LF 36" RCP INV IN: 7463.74' INV OUT: 7455.27'

TYPE L RIPRAP D_{50}= 6", 12" DEPTH (54 SY)

LOT 26 AREA: 2.51 (14632)

LOT 10 AREA: 2.51 AC (14481)

INSTALL PERM. TRM (ROLLMAX P300 OR EQUIV.) 40' WIDE, 5.00% SLOPE, 5:1 SIDE SLOPES, 840 LF

LOT 20 AREA: 3.55 AC (14130)

TYPE L RIPRAP D_{50}= 6", 12" DEPTH (317.7 SY)

PROPOSED FULL SPECTRUM DETENTION POND B

TYPE L RIPRAP D_{50}= 6", 12" DEPTH (914.4 SY)

LOT 21 AREA: 2.65 AC (14190)

LOT 22 AREA: 3.01 AC (14230)

LOT 23 AREA: 2.87 AC (14310)

LOT 24 AREA: 2.80 AC (14430)

LOT 25 AREA: 2.56 AC (14490)

LOT 11 AREA: 2.58 AC (14550)

168.74 LF 48" RCP INV IN: 7381.50' INV OUT: 7377.18'

46.11 LF 24" RCP INV IN: 7474.79' INV OUT: 7474.48'

INSTALL PERM. TRM (ROLLMAX P300 OR EQUIV.) 8' WIDE, 7.10% SLOPE, 8.5:1 SIDE SLOPES , 730 LF

INSTALL PERM. TRM (ROLLMAX P300 OR EQUIV.) 8' WIDE, 5% SLOPE, 6:1 SIDE SLOPES , 405 LF

LOT 14 AREA: 2.50 AC (14491)

LOT 12 AREA: 2.77 (14611)

LOT 18 AREA: 2.50 AC (14251)

LOT 19 AREA: 2.50 AC (14191)

LOT 17 AREA: 2.50 AC (14311)

LOT 16 AREA: 2.50 AC (14371)

LOT 15 AREA: 2.50 AC (14431)

LOT 13 AREA: 2.77 AC (14551)

AREA: ..51 AC (14531)

TRACT B AREA: 3.90 AC

157.39 LF DUAL 42" RCP AT 5.17% INV IN: 7385.80' INV OUT: 7377.18'

TYPE L RIPRAP D_{50}= 6", 12" DEPTH (84.1 SY)

INSTALL PERM. TRM (ROLLMAX P300 OR EQUIV.) 10' WIDE, 7.10% SLOPE, SIDE SLOPES VARY, 410 LF

INSTALL PERM. TRM (ROLLMAX P300 OR EQUIV.) 20' WIDE, 6.7% SLOPE, 5:1 SIDE SLOPES, 1100 LF (AVERAGE THROUGH SECTIONS N-N & O-O)

TRACT C AREA: 0.35 AC

SF

SM

EDB

U-U

X-X

Y-Y

V-V

M-M

L-L

Z-Z

Q-Q

DD-DD

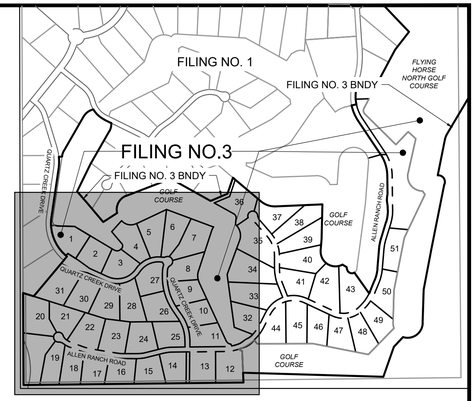
W-W

N-N

R-R

O-O

MATCHLINE SEE SHEET 7



GEC LEGEND:

		PHASE:
TRM	TURF REINFORCED MAT	FINAL
SM	SEEDING & MULCHING	FINAL
DD	DRAINAGE DITCH	
LOD	LIMITS OF CONSTRUCTION/ DISTURBANCE	
	FLOW DIRECTION	
	EX PROPERTY LINE	
	EX RIGHT OF WAY	
ECB	EROSION CONTROL BLANKET	INTERIM/FINAL
	PR ALLOWABLE BUILDING PAD AREA	FINAL
	CROSS-LOT DRAINAGE EASEMENT	

GRADING & EROSION CONTROL PLAN NOTES:

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FILL VOLUME: 99,813 CUBIC YARDS

NET 57,566 (CUT) CUBIC YARDS

PCD FILE: SF2326

NORTH

0 100

50

DRAWN BY: AXB	JOB DATE: 5/16/2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS.	
APPROVED: KMH	JOB NUMBER: 211030	0 1"	
CAD DATE: 5/16/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.	
CAD FILE: J:\2021\211030\CAD\Dwgs\C\Estates_CDs\GEC\GEC_Final			

NO.	DATE	BY	REVISION DESCRIPTION

HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH FILING NO. 3
PRI #2, LLC
EL PASO COUNTY, CO

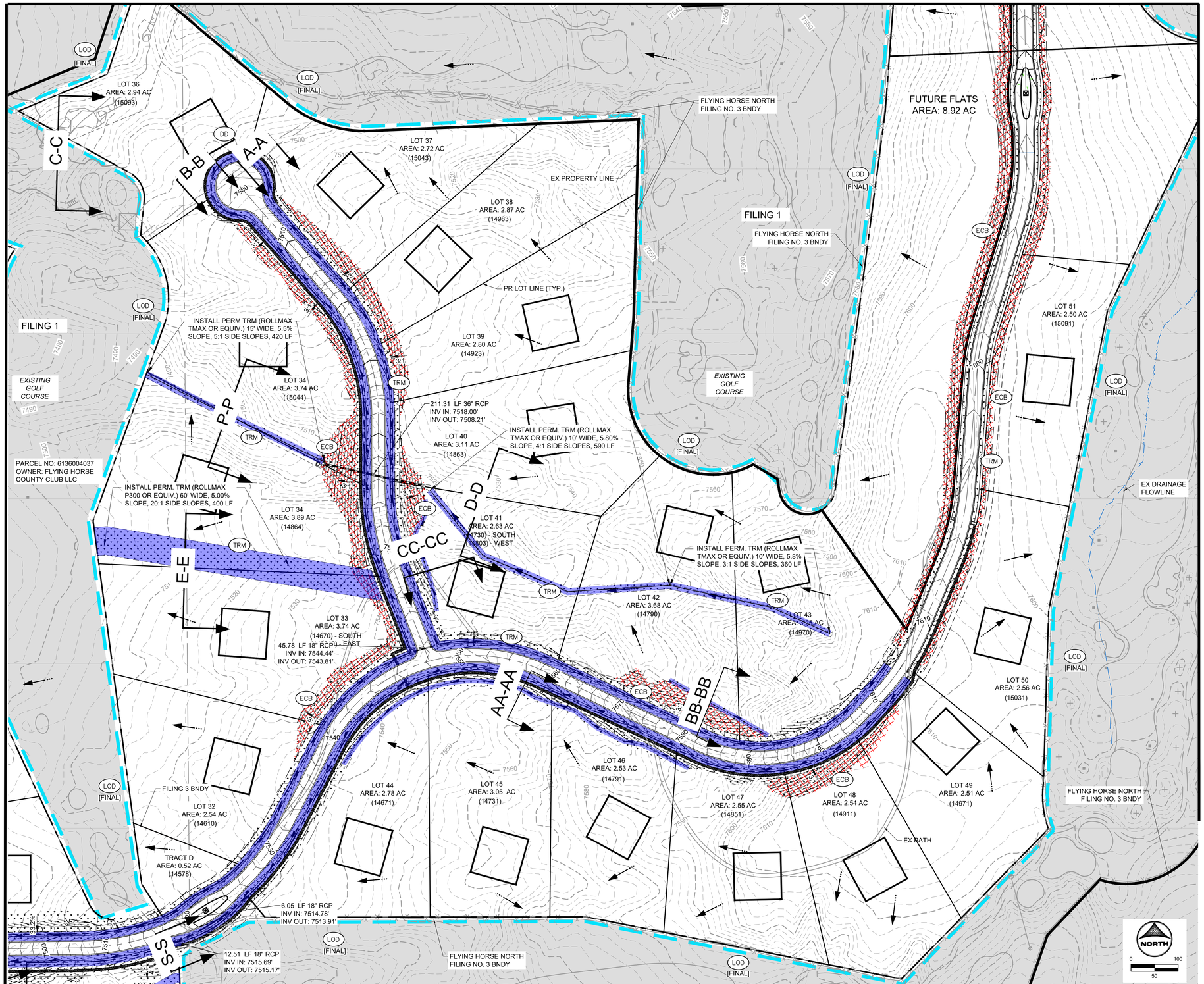
GRADING & EROSION CONTROL PLAN
FINAL GEC

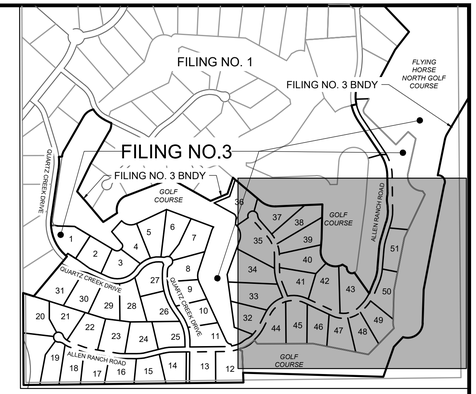
SHEET GEC 6

MATCHLINE SEE SHEET 6

MATCHLINE SEE SHEET 8

MATCHLINE SEE SHEET 8





GEC LEGEND:

			PHASE:
	TRM	TURF REINFORCED MAT	FINAL
	SM	SEEDING & MULCHING	FINAL
	DD	DRAINAGE DITCH	
	LOD	LIMITS OF CONSTRUCTION/ DISTURBANCE	
		FLOW DIRECTION	
		EX PROPERTY LINE	
		EX RIGHT OF WAY	
	ECB	EROSION CONTROL BLANKET	INTERIM/FINAL
		PR ALLOWABLE BUILDING PAD AREA	FINAL
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COLORADO LICENSED KENNETH M. BLAKLEY MUNN 54022 05/16/2024 PROFESSIONAL ENGINEER

PCD FILE: SF2326

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APPROVED:	KMH	JOB NUMBER:	211030
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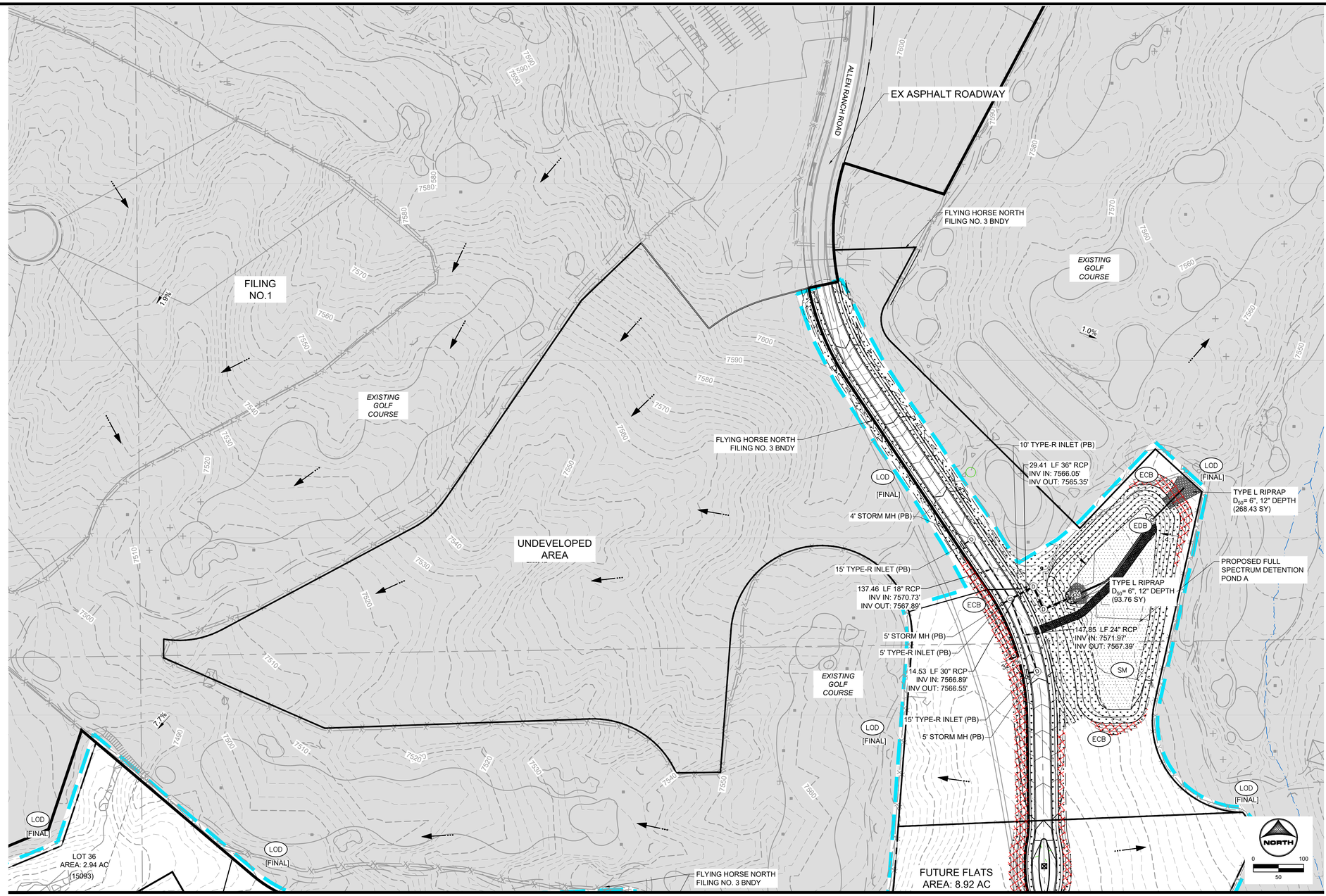
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

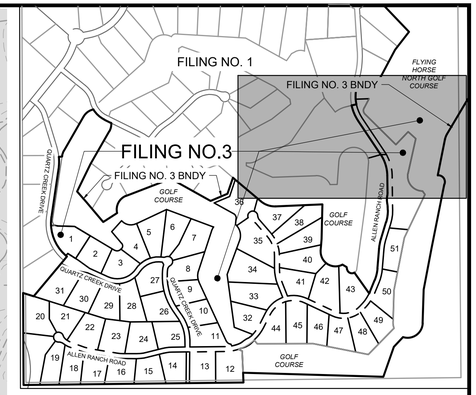
FLYING HORSE NORTH FILING NO. 3
PRI #2, LLC
EL PASO COUNTY, CO

GRADING & EROSION CONTROL PLAN
FINAL GEC

SHEET GEC 7



MATCHLINE SEE SHEET 7



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	TRM	TURF REINFORCED MAT	FINAL
	SM	SEEDING & MULCHING	FINAL
	DD	DRAINAGE DITCH	
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COLORADO LICENSED
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PROFESSIONAL ENGINEER

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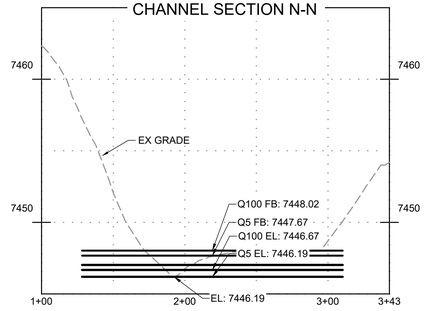
FLYING HORSE NORTH FILING NO. 3
PRI #2, LLC
EL PASO COUNTY, CO

GRADING & EROSION CONTROL PLAN
FINAL GEC

SHEET GEC 8

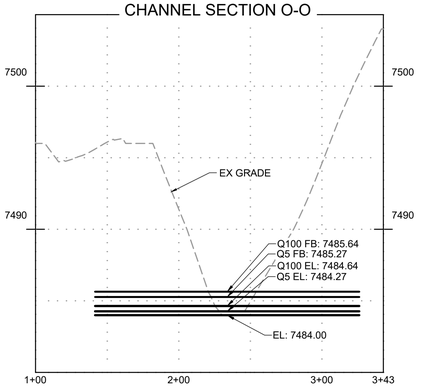
CHANNEL SECTION N-N



SECTION N-N
Q5 = 16.5 CFS
Q100 = 73.4 CFS
SLOPE = 6.70%
V5 = 1.82 FT/S
V100 = 3.38 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

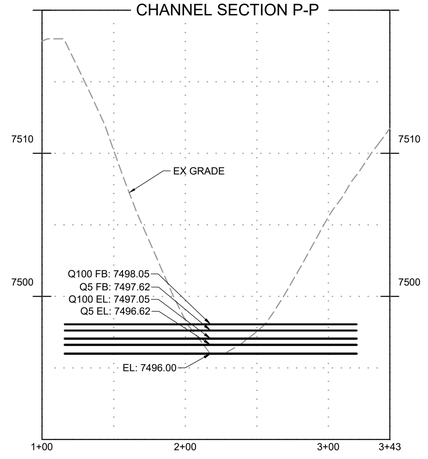
CHANNEL SECTION O-O



SECTION O-O
Q5 = 16.5 CFS
Q100 = 73.4 CFS
SLOPE = 5.30%
V5 = 3.77 FT/S
V100 = 6.41 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

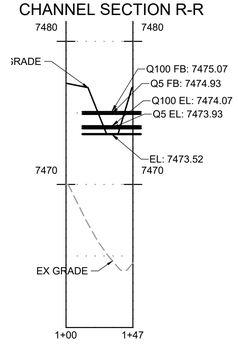
CHANNEL SECTION P-P



SECTION P-P
Q5 = 10.0 CFS
Q100 = 40.0 CFS
SLOPE = 5.10%
V5 = 4.34 FT/S
V100 = 6.05 FT/S

RECOMMENDED BMP:
ROLLMAX PERMANENT TURF REINFORCEMENT MAT (TMAX HPTRM OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 25.0
PERMISSIBLE SHEAR STRESS = 15.0

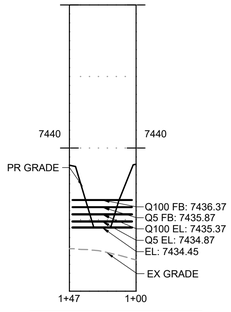
CHANNEL SECTION R-R



SECTION R-R
Q5 = 20.0 CFS
Q100 = 32.9 CFS
SLOPE = 4.00%
V5 = 5.17 FT/S
V100 = 6.03 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

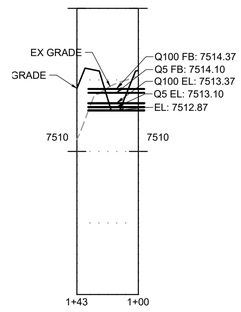
CHANNEL SECTION Q-Q



SECTION Q-Q
Q5 = 29.7 CFS
Q100 = 114.0 CFS
SLOPE = 4.00%
V5 = 5.41 FT/S
V100 = 8.51 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

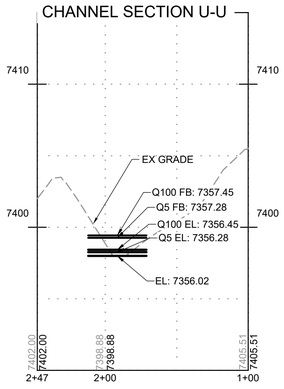
CHANNEL SECTION S-S



SECTION S-S
Q5 = 5.0 CFS
Q100 = 20.4 CFS
SLOPE = 4.00%
V5 = 3.19 FT/S
V100 = 5.26 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

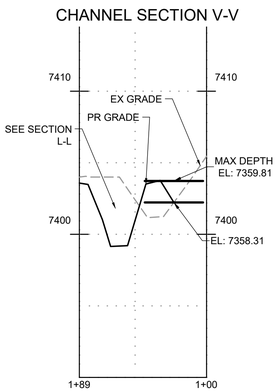
CHANNEL SECTION U-U



SECTION U-U
Q5 = 1.86 CFS
Q100 = 7.6 CFS
SLOPE = 7.1%
V5 = 2.65 FT/S
V100 = 3.95 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

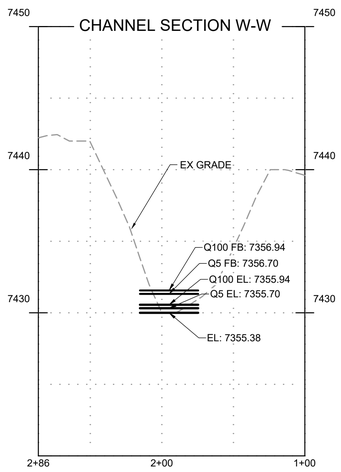
CHANNEL SECTION V-V



SECTION V-V
QMAX = 108.94 CFS
SLOPE = 5.4%
VMAX = 8.07 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

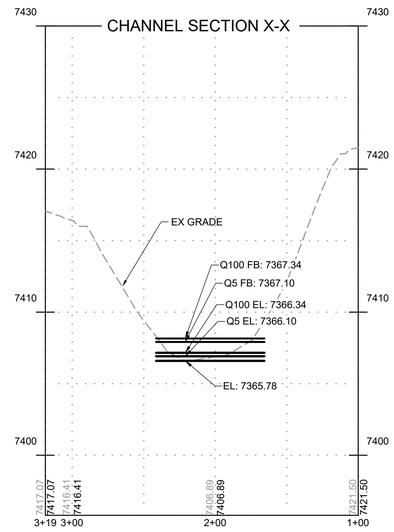
CHANNEL SECTION W-W



SECTION W-W
Q5 = 1.68 CFS
Q100 = 7.6 CFS
SLOPE = 4.70%
V5 = 2.60 FT/S
V100 = 3.86 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

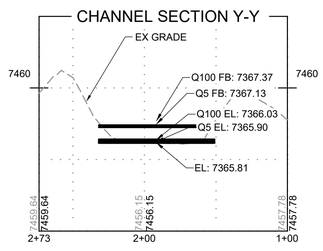
CHANNEL SECTION X-X



SECTION X-X
Q5 = 1.68 CFS
Q100 = 7.6 CFS
SLOPE = 6.70%
V5 = 0.27 FT/S
V100 = 4.05 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

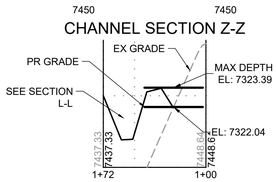
CHANNEL SECTION Y-Y



SECTION Y-Y
Q5 = 8.3 CFS
Q100 = 39.7 CFS
SLOPE = 5.70%
V5 = 1.76 FT/S
V100 = 3.38 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

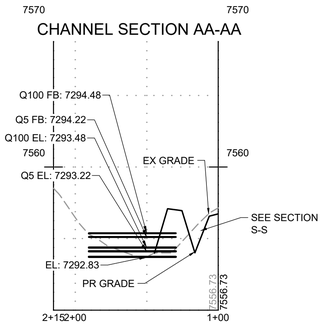
CHANNEL SECTION Z-Z



SECTION Z-Z
QMAX = 88.21 CFS
SLOPE = 8.00%
VMAX = 9.13 FT/S

RECOMMENDED BMP:
ROLLMAX PERMANENT TURF REINFORCEMENT MAT (TMAX HPTRM OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 25.0
PERMISSIBLE SHEAR STRESS = 15.0

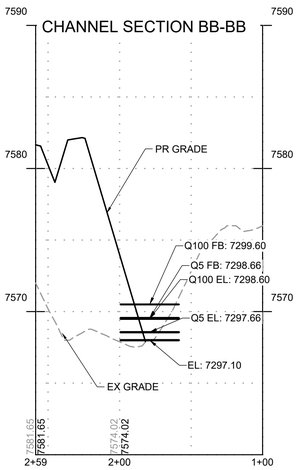
CHANNEL SECTION AA-AA



SECTION AA-AA
Q5 = 5.0 CFS
Q100 = 20.40 CFS
SLOPE = 6.00%
V5 = 3.29 FT/S
V100 = 4.83 FT/S

RECOMMENDED BMP:
ROLLMAX PERMANENT TURF REINFORCEMENT MAT (TMAX HPTRM OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 25.0
PERMISSIBLE SHEAR STRESS = 15.0

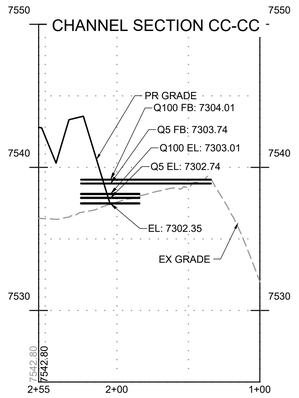
CHANNEL SECTION BB-BB



SECTION BB-BB
Q5 = 8.5 CFS
Q100 = 34.3 CFS
SLOPE = 9.50%
V5 = 5.42 FT/S
V100 = 7.76 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

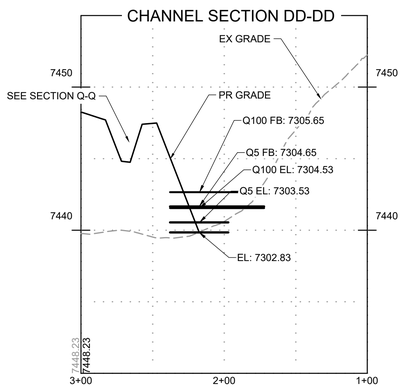
CHANNEL SECTION CC-CC



SECTION CC-CC
Q5 = 8.5 CFS
Q100 = 34.3 CFS
SLOPE = 4.00%
V5 = 0.39 FT/S
V100 = 3.90 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

CHANNEL SECTION DD-DD



SECTION DD-DD
Q5 = 29.7 CFS
Q100 = 114.0 CFS
SLOPE = 5.20%
V5 = 4.66 FT/S
V100 = 6.63 FT/S

RECOMMENDED BMP:
ROLLMAX PERMANENT TURF REINFORCEMENT MAT (TMAX HPTRM OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 25.0
PERMISSIBLE SHEAR STRESS = 15.0

COLORADO LICENSED
KENNETH M. BRAUN
54022
05/16/2024
PROFESSIONAL ENGINEER

PCD FILE NO.: PUDSP234

DRAWN BY: DLH JOB DATE: 2/29/2024
APPROVED: RDL JOB NUMBER: 211030
CAD DATE: 5/14/2024
CAD FILE: J:\2021\211030\CAD\Dwgs\C\Drainage\Estates\Channel_Sections

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
0 1"
IF NOT ONE INCH ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION

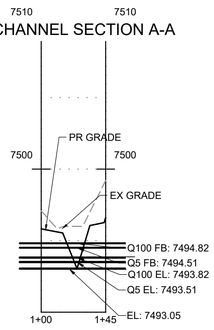
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH PHASE 2 PUD
PRI #2, LLC.
EL PASO COUNTY, CO

DETAILS
CHANNEL SECTIONS

SHEET CS 9

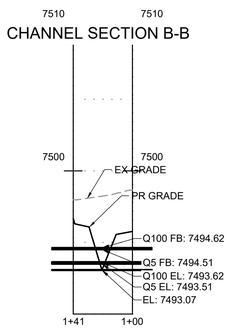
CHANNEL SECTION A-A



SECTION A-A
Q5 = 2.5 CFS
Q100 = 10.1 CFS
SLOPE = 5.15%
V5 = 3.38 FT/S
V100 = 4.87 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

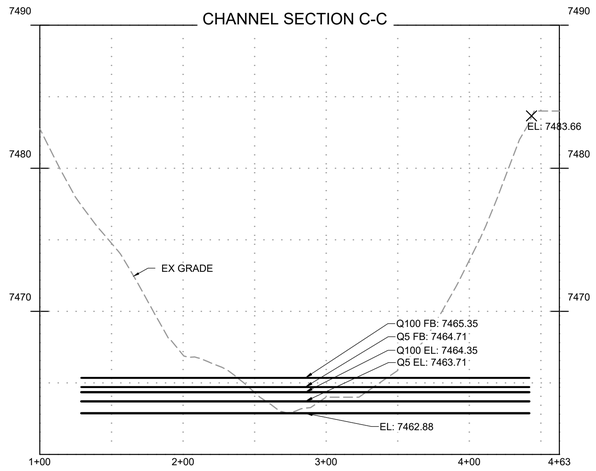
CHANNEL SECTION B-B



SECTION B-B
Q5 = 2.3 CFS
Q100 = 4.1 CFS
SLOPE = 5.15%
V5 = 3.39 FT/S
V100 = 3.87 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

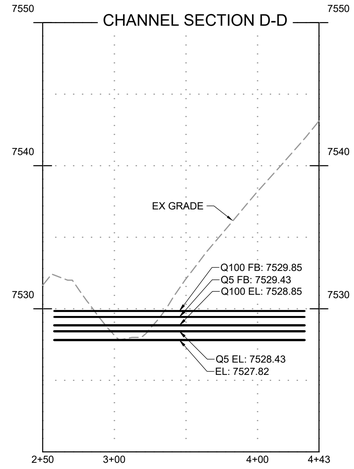
CHANNEL SECTION C-C



SECTION C-C
Q5 = 30.5 CFS
Q100 = 140.2 CFS
SLOPE = 4.40%
V5 = 4.92 FT/S
V100 = 7.21 FT/S

RECOMMENDED BMP:
ROLLMAX PERMANENT TURF REINFORCEMENT MAT (TMAX HPTRM OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 25.0
PERMISSIBLE SHEAR STRESS = 15.0

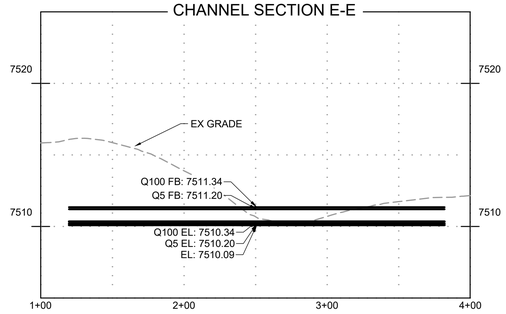
CHANNEL SECTION D-D



SECTION D-D
Q5 = 8.50 CFS
Q100 = 34.3 CFS
SLOPE = 5.80%
V5 = 4.57 FT/S
V100 = 6.47 FT/S

RECOMMENDED BMP:
ROLLMAX PERMANENT TURF REINFORCEMENT MAT (TMAX HPTRM OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 25.0
PERMISSIBLE SHEAR STRESS = 15.0

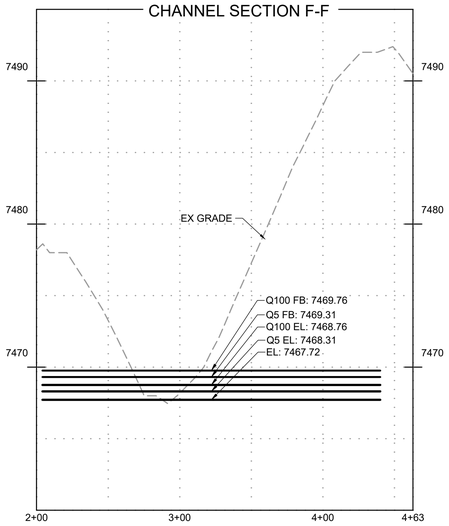
CHANNEL SECTION E-E



SECTION E-E
Q5 = 9.0 CFS
Q100 = 41.0 CFS
SLOPE = 5.00%
V5 = 1.85 FT/S
V100 = 3.29 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

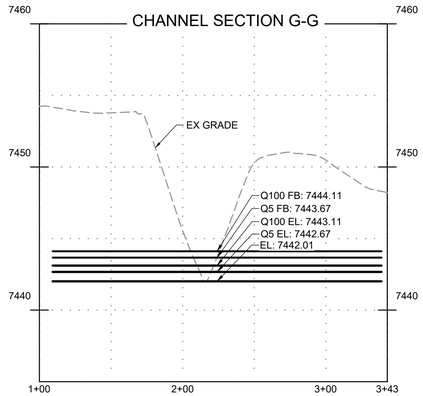
CHANNEL SECTION F-F



SECTION F-F
Q5 = 9.0 CFS
Q100 = 41.0 CFS
SLOPE = 5.40%
V5 = 4.31 FT/S
V100 = 6.32 FT/S

RECOMMENDED BMP:
ROLLMAX PERMANENT TURF REINFORCEMENT MAT (TMAX HPTRM OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 25.0
PERMISSIBLE SHEAR STRESS = 15.0

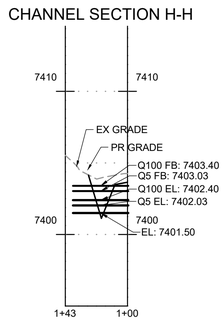
CHANNEL SECTION G-G



SECTION G-G
Q5 = 10.3 CFS
Q100 = 40.90 CFS
SLOPE = 9.4%
V5 = 5.91 FT/S
V100 = 8.45 FT/S

RECOMMENDED BMP:
ROLLMAX PERMANENT TURF REINFORCEMENT MAT (TMAX HPTRM OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 25.0
PERMISSIBLE SHEAR STRESS = 15.0

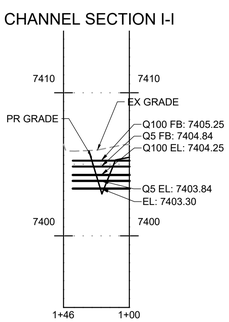
CHANNEL SECTION H-H



SECTION H-H
Q5 = 4.1 CFS
Q100 = 17.1 CFS
SLOPE = 4.21%
V5 = 3.61 FT/S
V100 = 5.19 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

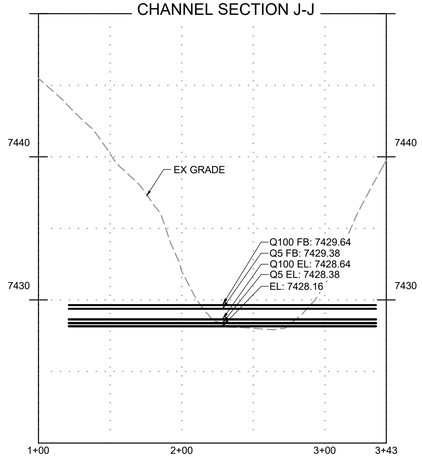
CHANNEL SECTION I-I



SECTION I-I
Q5 = 4.3 CFS
Q100 = 19.6 CFS
SLOPE = 4.21%
V5 = 3.65 FT/S
V100 = 5.38 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

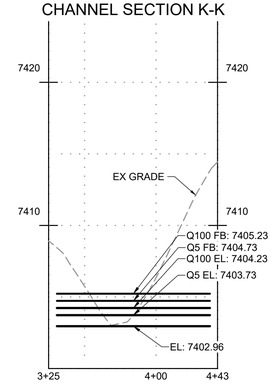
CHANNEL SECTION J-J



SECTION J-J
Q5 = 29.7 CFS
Q100 = 114.0 CFS
SLOPE = 5.00%
V5 = 3.27 FT/S
V100 = 5.54 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

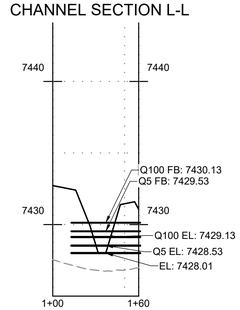
CHANNEL SECTION K-K



SECTION K-K
Q5 = 29.7 CFS
Q100 = 114.0 CFS
SLOPE = 10.7%
V5 = 7.16 FT/S
V100 = 10.10 FT/S

RECOMMENDED BMP:
ROLLMAX PERMAANENT TURF REINFORCEMENT MAT (TMAX HPTRM OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 25.0
PERMISSIBLE SHEAR STRESS = 15.0

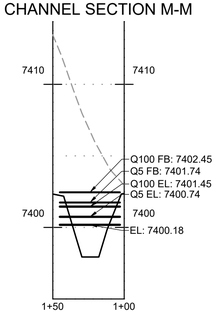
CHANNEL SECTION L-L



SECTION L-L
Q5 = 29.7 CFS
Q100 = 114.0 CFS
SLOPE = 3.00%
V5 = 4.35 FT/S
V100 = 6.81 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

CHANNEL SECTION M-M



SECTION M-M
Q5 = 36.9 CFS
Q100 = 157.3 CFS
SLOPE = 3.00%
V5 = 4.49 FT/S
V100 = 7.37 FT/S

RECOMMENDED BMP:
NORTH AMERICAN GREEN ROLLMAX PERMANENT TURF REINFORCEMENT MAT (P300 OR EQUIV.)
PERMISSIBLE VELOCITY (FT/S) = 9.0
PERMISSIBLE SHEAR STRESS = 3.0

COLORADO LICENSED
KENNETH M. BRAUN
54022
05/16/2024
PROFESSIONAL ENGINEER

PCD FILE NO.: PUDSP234

DRAWN BY: DLH | JOB DATE: 2/29/2024
APPROVED: RDL | JOB NUMBER: 211030
CAD DATE: 5/14/2024
CAD FILE: J:\2021\211030\CAD\Dwgs\C\Drainage\Estates\Channel_Sections

BAR IS ONE INCH ON OFFICIAL DRAWINGS. 0 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

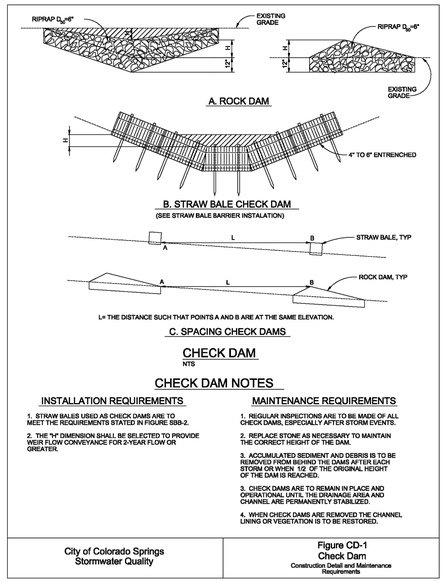
NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

FLYING HORSE NORTH PHASE 2 PUD
PRI #2, LLC.
EL PASO COUNTY, CO

DETAILS
CHANNEL SECTIONS

SHEET CS | 10



CHECK DAM

NTS

CHECK DAM NOTES

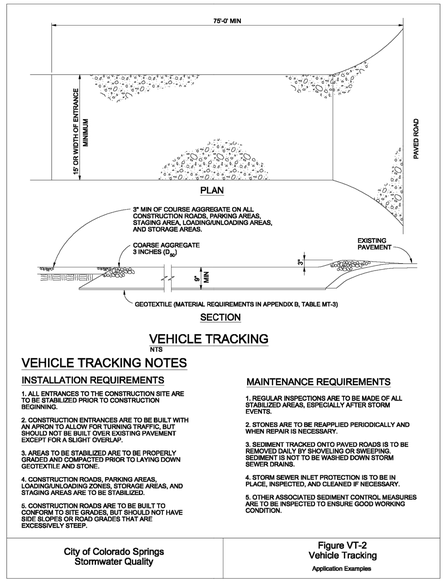
INSTALLATION REQUIREMENTS

1. STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE SB8-2.
2. THE "h" DIMENSION SHALL BE SELECTED TO PROVIDE WEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
2. REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
3. ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 1/2 OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.
3. CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.
4. WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.

City of Colorado Springs Stormwater Quality	Figure CD-1 Check Dam Construction Detail and Maintenance Requirements



VEHICLE TRACKING

NTS

VEHICLE TRACKING NOTES

INSTALLATION REQUIREMENTS

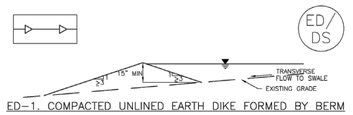
1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
2. STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

City of Colorado Springs Stormwater Quality	Figure VT-2 Vehicle Tracking Application Examples

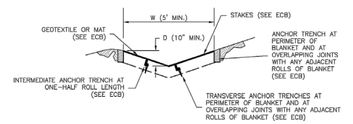
Earth Dikes and Drainage Swales (ED/DS) EC-10



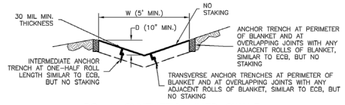
ED-1. COMPACTED UNLINED EARTH DIKE FORMED BY BERM

DS-1. COMPACTED UNLINED EXCAVATED SWALE

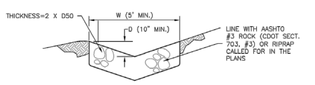
DS-2. COMPACTED UNLINED SWALE FORMED BY CUT AND FILL



DS-3. ECB LINED SWALE (CUT AND FILL OR BERM)



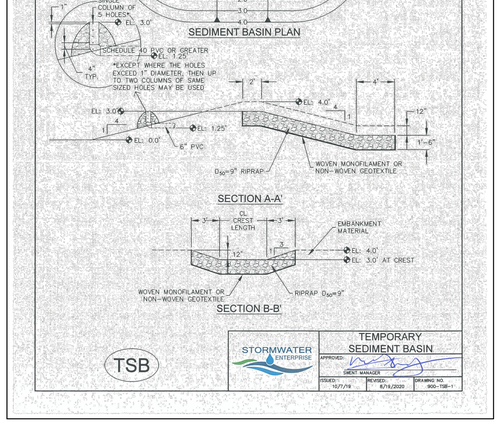
DS-4. SYNTHETIC LINED SWALE



DS-5. RIPRAP LINED SWALE

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.



TSB

STORMWATER ENTERPRISE	TEMPORARY SEDIMENT BASIN
APPROVED: CMENT MANAGER	
ISSUED: 10/7/19	REVISED: 8/19/2020
DRAWING NO.: 900-TSB-1	

TABLE SB-1, SIZING INFORMATION FOR STANDARD SEDIMENT BASIN

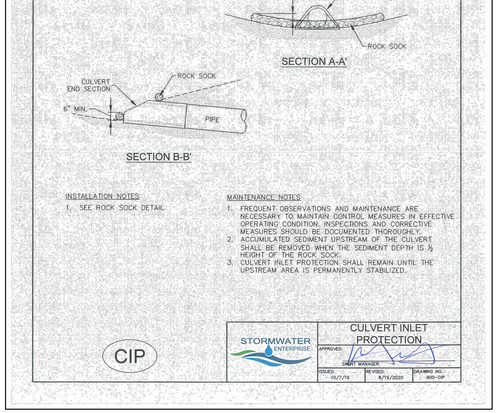
UPSTREAM DRAINAGE AREA (ROUNDED TO NEAREST ACRE), (AC)	BASIN BOTTOM WIDTH (W), (FT)	SPILLWAY CREST LENGTH (CL), (FT)	HOLE DIAMETER (HD), (IN)
1	12½'	2	⅝"
2	21	3	1⅛"
3	28	5	¾"
4	33½	6	⅞"
5	38½	8	2⅛"
6	43	9	2½"
7	47½	11	2⅝"
8	51	12	2¾"
9	55	13	3"
10	58½	15	1⅝"
11	61	16	3⅛"
12	64	18	3⅜"
13	67½	19	1¾"
14	70½	21	1⅞"
15	73½	22	1¾"

INSTALLATION NOTES:
1. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
2. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES, AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE No. 200 SIEVE.
3. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-698.
4. PIPE SCHEDULE 40 OR GREATER SHALL BE USED.
5. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES. DESIGN CALCULATIONS MUST BE APPROVED PRIOR TO IMPLEMENTATION.

MAINTENANCE NOTES:
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN CONTROL MEASURE EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E. TWO FEET BELOW SPILLWAY CREST).
3. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED.
4. PERMANENTLY STABILIZE AREA AFTER SEDIMENT BASIN REMOVAL.

TSB

STORMWATER ENTERPRISE	TEMPORARY SEDIMENT BASIN
APPROVED: CMENT MANAGER	
ISSUED: 10/7/19	REVISED: 8/19/2020
DRAWING NO.: 900-TSB-2	

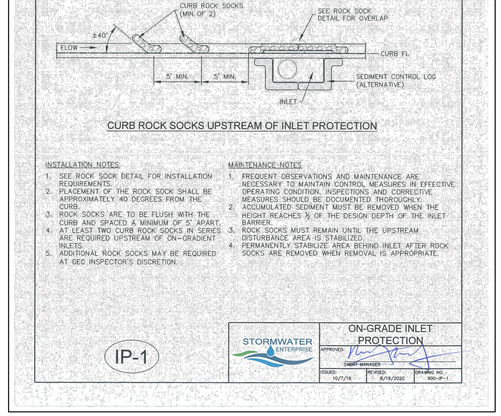


INSTALLATION NOTES:
1. SEE ROCK SOCK DETAIL.

MAINTENANCE NOTES:
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS ½ HEIGHT OF THE ROCK SOCK.
3. CULVERT INLET PROTECTION SHALL REMAIN UNTIL THE UPSTREAM AREA IS PERMANENTLY STABILIZED.

CIP

STORMWATER ENTERPRISE	CULVERT INLET PROTECTION
APPROVED: CMENT MANAGER	
ISSUED: 10/7/19	REVISED: 8/19/2020
DRAWING NO.: 900-CIP	

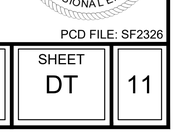


INSTALLATION NOTES:
1. SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
2. PLACEMENT OF THE ROCK SOCK SHALL BE APPROXIMATELY 40 DEGREES FROM THE CURB.
3. ROCK SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5' APART.
4. AT LEAST TWO CURB ROCK SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADIENT INLETS.
5. ADDITIONAL ROCK SOCKS MAY BE REQUIRED AT GEC INSPECTOR'S DISCRETION.

MAINTENANCE NOTES:
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE DESIGN DEPTH OF THE INLET BARRIER.
3. ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA BEHIND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

IP-1

STORMWATER ENTERPRISE	ON-GRADE INLET PROTECTION
APPROVED: CMENT MANAGER	
ISSUED: 10/7/19	REVISED: 8/19/2020
DRAWING NO.: 900-IP-1	



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APPROVED: KMH JOB NUMBER: 211030
CAD DATE: 5/14/2024
CAD FILE: J:\2021\211030\CAD\Dwgs\C\Estates_CDs\GEC\GEC_details

BAR IS ONE INCH ON OFFICIAL DRAWINGS. 0 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

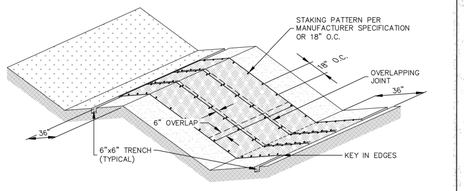
NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

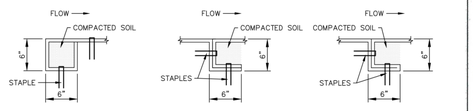
FLYING HORSE NORTH FILING NO. 3
PRI #2, LLC
EL PASO COUNTY, CO

GRADING & EROSION CONROL PLAN
DETAILS

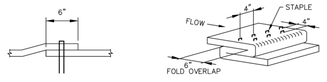
SHEET DT 11



EROSION CONTROL BLANKET



PERIMETER ANCHOR TRENCH | JOINT ANCHOR TRENCH | INTERMEDIATE CHECK SLOT



OVERLAPPING JOINT | STAPLE CHECK

TO BE USED ON SLOPE EVERY 15 FEET

ECB

STORMWATER ENTERPRISE	EROSION CONTROL BLANKET		
APPROVED: CMENT MANAGER			
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-ECB-1	

INSTALLATION NOTES

1. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE REQUIRED FOR EROSION CONTROL BLANKETS. TRM PRODUCTS MAY ME USED WHERE APPROPRIATE AS DESIGNATED BY THE ENGINEER.
2. IN AREAS WHERE EROSION CONTROL BLANKETS ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO EROSION CONTROL BLANKET INSTALLATION, AND THE EROSION CONTROL BLANKET SHALL BE IN FULL CONTACT WITH THE SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
3. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
4. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF EROSION CONTROL BLANKETS TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL EROSION CONTROL BLANKETS.
5. INTERMEDIATE CHECK SLOT OR STAPLE CHECK SHALL BE INSTALLED EVERY 15' DOWN SLOPES. IN DRAINAGEWAYS, INSTALL CHECK SLOTS EVERY 25' PERPENDICULAR TO FLOW DIRECTION.
6. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF EROSION CONTROL BLANKETS TOGETHER FOR EROSION CONTROL BLANKETS ON SLOPES.
7. MATERIAL SPECIFICATIONS OF EROSION CONTROL BLANKETS SHALL CONFORM TO TABLE ECB-1.
8. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING EROSION CONTROL BLANKETS SHALL BE RESEEDED AND MULCHED.
9. STRAW EROSION CONTROL BLANKETS SHALL NOT BE USED WITHIN STREAMS AND DRAINAGE CHANNELS.
10. COMPACT ALL TRENCHES.

MAINTENANCE NOTES

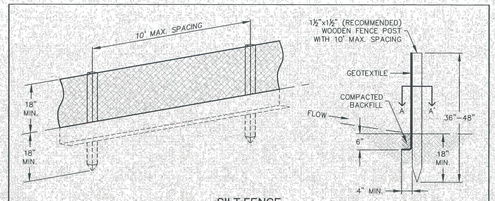
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. EROSION CONTROL BLANKETS SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE. TRM MUST BE REMOVED AT THE DISCRETION OF THE GEC INSPECTOR.
3. ANY EROSION CONTROL BLANKET PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW GEOTEXTILE THAT HAVE ERODED TO CREATE A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE EROSION CONTROL BLANKET REINSTALLED.

TABLE ECB-1, EROSION CONTROL BLANKET MATERIAL SPECIFICATIONS

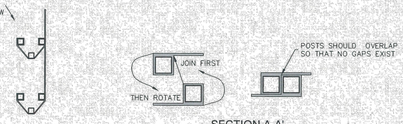
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING
STRAW	–	100%	–	DOUBLE/ NATURAL
STRAW-COCONUT	30% MIN.	70% MAX.	–	DOUBLE/ NATURAL
COCONUT	100%	–	–	DOUBLE/ NATURAL
EXCELSIOR	–	–	100%	DOUBLE/ NATURAL

ECB

STORMWATER ENTERPRISE	EROSION CONTROL BLANKET		
APPROVED: CMENT MANAGER			
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-ECB-2	



SILT FENCE



J-HOOK INSTALLATION | SECTION A-A'

INSTALLATION NOTES

1. SILT FENCE MUST BE PLACED ON A FLAT SURFACE 2'-5' AWAY FROM TOE OF THE SLOPE TO ALLOW FOR PONDING AND DEPOSITION.
2. COMPACT THE TRENCH USING A JUMPING JACK OR WHEEL ROLLING TO THE POINT THAT THE FENCE RESISTS BEING PULLED OUT OF THE GROUND BY HAND.
3. SILT FENCE SHALL BE TAUT WITH NO SAGS AFTER IT HAS BEEN ANCHORED.
4. FABRIC SHALL BE ATTACHED TO POSTS WITH 1" HEAVY DUTY STAPLES OR 1" NAILS. THESE SHOULD BE PLACED VERTICALLY DOWN THE POST, 3" APART.
5. THE PREFERRED INSTALLATION METHOD USES A TRENCHER OR SILT FENCE INSTALLATION DEVICE.
6. INSTALL SILT FENCE ALONG THE CONTOUR OF THE SLOPES OR IN A MANNER TO AVOID CREATING CONCENTRATED FLOW (SUCH AS A "J-HOOK" INSTALLATION).

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE DESIGN HEIGHT OF THE SILT FENCE.
3. SILT FENCE MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AFTER SILT FENCE IS REMOVED.

SF

STORMWATER ENTERPRISE	SILT FENCE		
APPROVED: CMENT MANAGER			
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-SF	

SEEDING & MULCHING

ALL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND SEED LOAD AND BAG TICKETS MUST BE ADDED TO THE CSWMP.

SOIL PREPARATION

1. IN AREAS TO BE SEEDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT BE HEAVILY COMPACTED, AND SHOULD BE IN FRIABLE CONDITION. LESS THAN 85% STANDARD PROCTOR DENSITY IS ACCEPTABLE. AREAS OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS AND PROVIDE A BLENDING ZONE BETWEEN DIFFERENT SOIL LAYERS.
2. AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH.
3. THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL BE TESTED TO IDENTIFY SOIL DEFICIENCIES AND ANY SOIL AMENDMENTS NECESSARY TO ADDRESS THESE DEFICIENCIES. SOIL AMENDMENTS AND/OR FERTILIZERS SHOULD BE ADDED TO CORRECT TOPSOIL DEFICIENCIES BASED ON SOIL TESTING RESULTS.
4. TOPSOIL SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE, AVOID COMPACTION, AND TO PREVENT EROSION AND CONTAMINATION. STRIPPED TOPSOIL MUST BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION OPERATIONS, AND CARE MUST BE TAKEN TO PROTECT THE TOPSOIL AS A VALUABLE COMMODITY. TOPSOIL MUST NOT BE STRIPPED DURING UNDESIRABLE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN SWALES OR IN AREAS WITH POOR DRAINAGE.

SEEDING

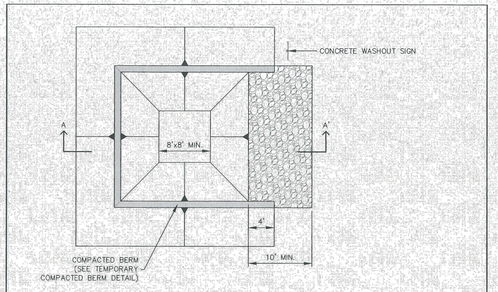
1. ALLOWABLE SEED MIXES ARE INCLUDED IN THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION MANUAL. ALTERNATIVE SEED MIXES ARE ACCEPTABLE IF INCLUDED IN AN APPROVED LANDSCAPING PLAN.
2. SEED SHOULD BE DRILL-SEEDED WHENEVER POSSIBLE.
   - SEED DEPTH MUST BE ¼ TO ½ INCHES WHEN DRILL-SEEDING IS USED.
3. BROADCAST SEEDING OR HYDRO-SEEDING WITH TACKIFIER MAY BE SUBSTITUTED ON SLOPES STEEPER THAN 3:1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL SEED.
   - SEEDING RATES MUST BE DOUBLED FOR BROADCAST SEEDING OR INCREASED BY 50% IF USING A BRILLION DRILL OR HYDRO-SEEDING.
   - BROADCAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL.

MULCHING

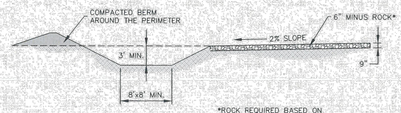
1. MULCHING SHOULD BE COMPLETED AS SOON AS PRACTICABLE AFTER SEEDING, HOWEVER PLANTED AREAS MUST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING.
2. MULCHING REQUIREMENTS INCLUDE:
   - HAY OR STRAW MULCH
     - ONLY CERTIFIED WEED-FREE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER.
     - CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND MULCH FIBERS MUST BE TUCKED INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES.
     - TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1.
   - HYDRAULIC MULCHING
     - HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED.
     - IF HYDRO-SEEDING IS USED, MULCHING MUST BE APPLIED AS A SEPARATE, SECOND OPERATION.
     - WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT A RATE OF 2,000 TO 2,500 POUNDS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE.
   - EROSION CONTROL BLANKET
     - EROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.

SM

STORMWATER ENTERPRISE	SEEDING & MULCHING		
APPROVED: CMENT MANAGER			
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-SM	



CONCRETE WASHOUT AREA PLAN



SECTION A-A'

*ROCK REQUIRED BASED ON SITE CONDITIONS AT THE DISCRETION OF THE GEC INSPECTOR

CWA

STORMWATER ENTERPRISE	CONCRETE WASHOUT AREA		
APPROVED: CMENT MANAGER			
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-CWA-1	

INSTALLATION NOTES

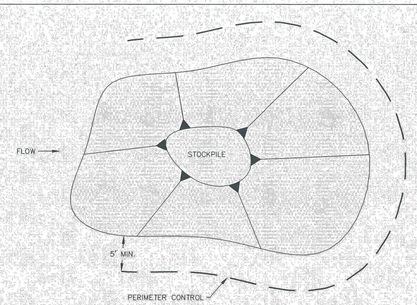
1. SEE PLAN VIEW FOR:
   - LOCATION OF CONCRETE WASHOUT AREA
2. LOCATE AT LEAST 50' AWAY FROM STATE WATERS MEASURED HORIZONTALLY.
3. AN IMPERMEABLE LINER (16 MIL. MINIMUM THICKNESS) IS REQUIRED IF CONCRETE WASH AREA IS LOCATED WITHIN 400' OF STATE WATERS OR 1000' OF WELLS OR DRINKING WATER SOURCES.
4. DO NOT LOCATE IN AREAS WHERE SHALLOW GROUNDWATER MAY BE PRESENT.
5. THE CONCRETE WASH AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
6. CONCRETE WASH AREA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8'.
7. BERM SURROUNDING SIDES AND BACK OF CONCRETE WASH AREA SHALL HAVE A MINIMUM HEIGHT OF 2 FEET.
8. CONCRETE WASH AREA ENTRANCE SHALL BE SLOPED 2% TOWARDS THE CONCRETE WASH AREA.
9. SIGNS SHALL BE PLACED AT THE CONCRETE WASH AREA.
10. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

MAINTENANCE NOTES

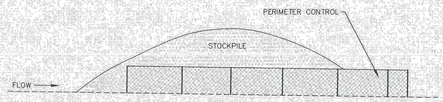
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. THE CONCRETE WASH AREA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN THE PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF ⅔ THE HEIGHT OF THE CONCRETE WASH AREA.
3. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE, AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
4. THE CONCRETE WASH AREA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
5. PERMANENTLY STABILIZE AREA AFTER CONCRETE WASH AREA IS REMOVED.

CWA

STORMWATER ENTERPRISE	CONCRETE WASHOUT AREA		
APPROVED: CMENT MANAGER			
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-CWA-2	



STOCKPILE PROTECTION PLAN



STOCKPILE PROTECTION ELEVATION

INSTALLATION NOTES

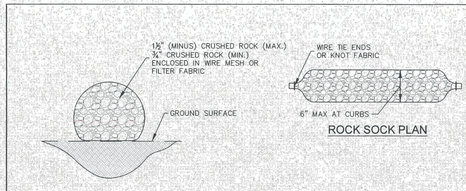
1. INSTALL PERIMETER CONTROL AROUND STOCKPILE ON DOWNGRADIENT SIDE. PERIMETER CONTROL MUST BE SUITABLE TO SITE CONDITIONS AND INSTALLED ACCORDING TO THE RELEVANT DETAIL.
2. FOR STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS INCLUDING PERIMETER CONTROL ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

MAINTENANCE NOTES

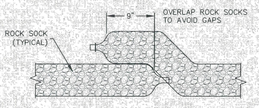
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. IF PERIMETER CONTROLS MUST BE MOVED TO ACCESS STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORK DAY.
3. ACCUMULATED SEDIMENT MUST BE REMOVED ACCORDING TO PERIMETER CONTROL DETAIL.

SP

STORMWATER ENTERPRISE	STOCKPILE PROTECTION		
APPROVED: CMENT MANAGER			
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-SP	



ROCK SOCK SECTION | ROCK SOCK PLAN



ROCK SOCK OVERLAP

GRADATION TABLE

	MASS PERCENT PASSING SQUARE MESH SIEVES
	No. 4
2"	100
1½"	90-100
1"	20-55
¾"	0-15
⅜"	0-5

MATCHES SPECIFICATIONS FOR No. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M-43. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES

INSTALLATION NOTES

1. CRUSHED ROCK SHALL BE BETWEEN MAX. 1½" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET AND MIN. ¾" CRUSHED ROCK.
2. WIRE MESH SHALL HAVE OPENINGS SMALLER THAN THE SMALLEST SIZE ROCK.
3. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED BEYOND REPAIR.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE DEPTH REACHES ½ OF THE HEIGHT OF THE ROCK SOCK.
4. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL DISTURBED AREA IS STABILIZED.
5. PERMANENTLY STABILIZE AREA AFTER ROCK SOCKS HAVE BEEN REMOVED.

RS

STORMWATER ENTERPRISE	ROCK SOCK		
APPROVED: CMENT MANAGER			
ISSUED: 10/7/19	REVISED: 8/19/		

COLORADO LICENSED KENNETH M. BRIDGES Kenneth M. Bridges 54022 05/16/2024 PROFESSIONAL ENGINEER

PCD FILE: SF2326

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APPROVED: KMH	JOB NUMBER: 211030	0 1"	
CAD DATE: 5/14/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.	
CAD FILE: J:\2021\211030\CAD\Dwgs\C\Estates_CDs\GEC\GEC_details			

NO.	DATE	BY	REVISION DESCRIPTION

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HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.300.4140
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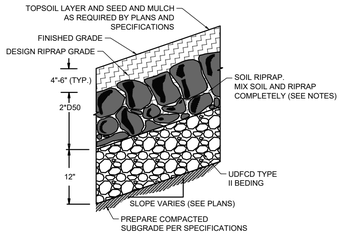
FLYING HORSE NORTH FILING NO. 3
PRI #2, LLC
EL PASO COUNTY, CO

GRADING & EROSION CONROL PLAN
DETAILS

SHEET DT | 12



SOIL RIPRAP EMBANKMENT PROTECTION WITH BEDDING TYP. SECTION

N.T.S

TYPE L RIPRAP

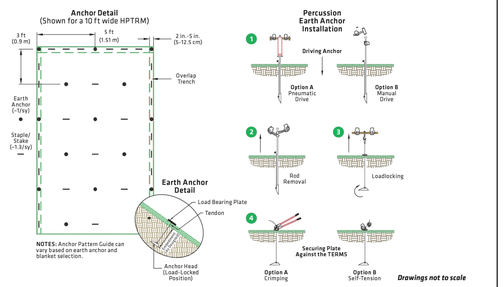
INTERMEDIATE ROCK DIMENSION (IN .)	PERCENT PASSING (%)
15	70-100
12	50-70
9	35-50
3	2-10

*TYPE L RIPRAP D50=9":
D50=MEAN PARTICLE SIZE
(INTERMEDIATE DIMENSION) BY WEIGHT

RIPRAP NOTES.

1. SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS REFER TO THE SITE PLAN ACTUAL LOCATION AND LIMITS.
2. MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.
3. PLACE STONE–SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.
4. CRIMP OR TACKIFY MULCH OR USE APPROVED HYDROMULCH AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
5. ROCK SHALL BE HARD, DURABLE, ANGULAR IN SHAPE, AND FREE FROM CRACKS, OVERBURDEN, SHALE, AND ORGANIC MATTER.
6. NEITHER BREADTH NOR THICKNESS OF A SINGLE STONE SHOULD BE LESS THAN ONE–THIRD ITS LENGTH, AND ROUNDED STONE SHOULD BE AVOIDED.
7. THE ROCK SHOULD SUSTAIN A LOSS OF NOT MORE THAN 40% AFTER 500 REVOLUTIONS IN AN ABRASION TEST (LOS ANGELES MACHINEASTM C–535–69) AND SHOULD SUSTAIN A LOSS OF NOT MORE THAN 10% AFTER 12 CYCLES OF FREEZING AND THAWING (AASHTO TEST 103 FOR LEDGE ROCK PROCEDURE A).
8. ROCK HAVING A MINIMUM SPECIFIC GRAVITY OF 2.65 IS PREFERRED; HOWEVER, IN NO CASE SHOULD ROCK HAVE A SPECIFIC GRAVITY LESS THAN 2.50.

Anchoring Detail



ANCHORING DETAIL

The performance of ground anchoring devices is highly dependent on numerous site/project specific variables. It is the sole responsibility of the project engineer and/or contractor to select the appropriate anchor type and length. Anchoring shall be selected to hold the mat in intimate contact with the soil subgrade and resist pullout in accordance with the project's design intent.

1. Staples and/or stakes should be at least 6 in. (15 cm) in length and with sufficient ground penetration to resist pullout. Longer staples and/or stakes may be needed in looser soils.
2. The percussion earth anchor assembly consists of an anchor head, a tendon, a faceplate, and an end-piece device. See North American Green® Earth Anchor specification for detailed information on assembly components and associated pull-out strength.

PERCUSSION EARTH ANCHOR INSTALLATION

1. Insert the drive rod into the assembly's anchor head then use either a sledge hammer or vibratory hammer to drive the anchor to their desired depth.
2. After the desired anchor depth is achieved, retract the drive rod.
3. Lock the anchor assembly by swiftly pulling the cable upwards until the anchor head rotates as signaled by sudden resistance to pulling. A hooked setting tool may be used to aid in this step.

***NOTE:** Larger anchors may require more force to set the anchor. This can be achieved through using simple mechanical equipment for greater leverage, such as a fulcrum, manual or hydraulic jack, winch, or post puller.*

4. Secure the faceplate to the High-performance Turf Reinforcement Mat (HPTRM) surface by locking the end-piece. If using a copper or aluminum stop, crimp the ferrule to secure. If using a self-tensioning end-piece (grip or wedge grip) set by simply tightening the end-piece against the faceplate. If desired, cut the remaining cable assembly, above end-piece, to desired length.

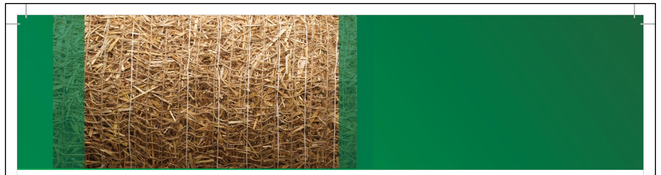
SEEDING AND VEGETATING

When using a Composite Turf Reinforcement Mat (C-TRM) with fiber components:

1. Pre-seed prepared soils prior to the installation of the C-TRM. Install matting as directed. C-TRM does not require soil infill or a top dressing of seed. Overseeding may be done as a secondary form of seeding.
2. Sod may be installed in place of seeding on top of the C-TRM. Additional staking of sod is recommended in high-flow conditions. Sodded areas should be irrigated until rooting through the mat and into subgrade occurs.

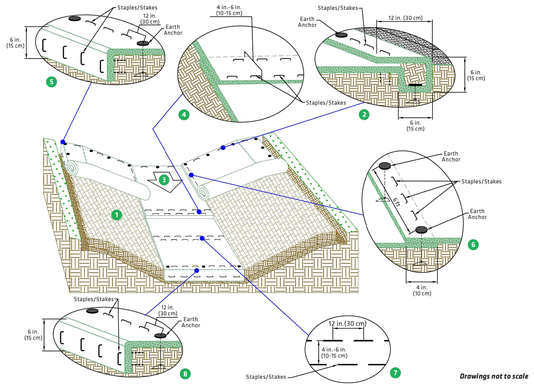
When using a woven HPTRM:

1. Install the HPTRM as directed prior to seed and soil filling.
2. Place seed into the installed HPTRM. After seeding, spread a layer of fine soil into the mat. Using the flat side of a rake, broom or other tool, completely fill the voids. Smooth soil-fill in order to just expose the top of the HPTRM matrix. Do not place excessive soil above the mat.
3. Additional seed, hydraulic mulching of the use of a temporary Erosion Control Blanket (ECB) can be applied over the soil-filled mat for increased protection.
4. Sod may be installed in place of seeding. Install HPTRM, and soil-fill as outlined above. Place sod directly onto the soil-filled HPTRM. Additional staking of sod is recommended in high-flow conditions. Sodded areas should be irrigated until rooting through the mat and into subgrade occurs.
5. Consult with a manufacturer's technical representative for installation assistance if unique conditions apply.



	Product Description	Longevity	Applications	Design Permissible Shear Stress lbs/ft² (Pa)	Design Permissible Velocity ft/s (m/s)
TEMPORARY					
BIONET CONT'D					
C125BN	9.3 lb., leno woven biodegradable jute top net, 100% coconut fiber matrix, 7.7 lb., woven biodegradable jute bottom net	24 mo.	High Flow Channels 1:1 and Greater Slopes	Unvegetated 2.35 (112)	Unvegetated 10.0 (3.05)
C700BN	143 lb., (700 g/) woven biodegradable coir top net, 100% coconut fiber matrix, 7.7 lb., woven biodegradable jute bottom net	36 mo.	High Flow Channels 1:1 and Greater Slopes	Unvegetated 2.35 (112)	Unvegetated 10.0 (3.05)
PERMANENT					
ERONET					
P300	5.0 lb., UV-stable polypropylene top net, 100% polypropylene fiber matrix, 3.0 lb., UV-stable polypropylene bottom net	Permanent	High Flow Channels 1:1 Slopes	Unvegetated 3.0 (144) Vegetated 8.0 (383)	Unvegetated 9.0 (2.7) Vegetated 16.0 (4.9)
VMAX					
SC250	5.0 lb., UV-stable polypropylene top & bottom nets, 24.0 lb., UV-stable polypropylene corrugated center net, 70% straw/30% coconut fiber matrix	Permanent	High Flow Channels 1:1 and Greater Slopes	Unvegetated 3.0 (144) Vegetated 10.0 (480)	Unvegetated 9.5 (2.9) Vegetated 15.0 (4.6)
C350	8.0 lb., UV-stable polypropylene top & bottom nets, 24.0 lb., UV-stable polypropylene corrugated center net, 100% coconut fiber matrix	Permanent	High Flow Channels 1:1 and Greater Slopes	Unvegetated 3.2 (153) Vegetated 12.0 (576)	Unvegetated 10.5 (3.2) Vegetated 20.0 (6.0)
P550	24.0 lb., UV-stable polypropylene top & bottom nets, 24.0 lb., UV-stable polypropylene corrugated center net, 100% polypropylene fiber matrix	Permanent	Extreme High Flow Channels 1:1 and Greater Slopes	Unvegetated 4.0 (191) Vegetated 14.0 (672)	Unvegetated 12.5 (3.8) Vegetated 25.0 (7.6)
TMax	100% UV-stable polypropylene monofilament yarns, woven into a 3-D structure	Permanent	Extreme High Flow Channels 1:1 and Greater Slopes	Vegetated 15.0 (718)	Vegetated 25.0 (7.6)
W3000	100% UV-stable polypropylene monofilament yarns, woven into a 3-D structure	Permanent	Extreme High Flow Channels 1:1 and Greater Slopes	Vegetated 16.0 (766)	Vegetated 25.0 (7.6)

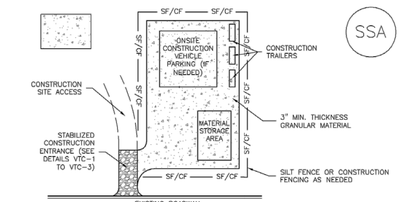
Channel Installation Detail



GENERAL INSTALLATION

1. Prepare soil before installing the HPTRM, including any necessary application of soil amendments such as lime or fertilizer. See seeding and vegetating section for details regarding preseeding, overseeding or use with sod.
2. Begin at the top of the channel by anchoring the HPTRM in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench with approximately 12 in. (30 cm) of HPTRM extended beyond the upslope portion of the trench. Anchor the HPTRM with a row of anchors/staples/stakes spaced approximately 12 in. (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Compact soil and fold remaining 12 in.(30 cm) portion of HPTRM back over compacted soil. Secure HPTRM over soil with a row of anchors/staples/stakes spaced approximately 12 in. (30 cm) across the width of the HPTRM.
3. Roll center HPTRM in direction of water flow in bottom of channel. HPTRMs will unroll with appropriate side against the soil surface. All HPTRMs must be securely fastened to soil surface by placing anchors/staples/stakes in appropriate locations as shown in the anchoring detail.
4. Place consecutive HPTRMs end over end (shingle style) with a 4 in. x 6 in. (10 cm-15 cm) overlap. Use a double row of staples/stakes staggered 12 in. (30 cm) apart and 12 in. (30 cm) on center to secure HPTRMs.
5. Full length edge of HPTRMs at top of side slopes must be anchored with a row of staples/stakes approximately 12 in. (30 cm) apart in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent HPTRMs must be overlapped approximately 4 in. (10 cm) and fastened.
7. In high flow channel applications, a staple/stake check slot is recommended at 30 ft to 40 ft (9 m-12 m) intervals. Use a double row of staples/stakes staggered 4 in. (10 cm) apart and 12 in. (30 cm) on center over entire width of the channel.
8. The terminal end of the HPTRMs must be anchored with a row of staples/stakes approximately 12 in. (30 cm) apart in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench. Backfill and compact the trench after stapling.

Stabilized Staging Area (SSA) SM-6



SSA–1, STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   –LOCATION OF STAGING AREA(S).
   –CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA 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.
2. 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. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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)

PCD FILE: SF2326

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APPROVED: KMH	JOB NUMBER: 211030	IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.	
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NO.	DATE	BY	REVISION DESCRIPTION

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FLYING HORSE NORTH FILING NO. 3
PRI #2, LLC
EL PASO COUNTY, CO

GRADING & EROSION CONROL PLAN
DETAILS

SHEET DT

13