EPC STORMWATER REVIEW COMMENTS
IN ORANGE BOXES WITH BLACK TEXT

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY, COLORADO

GRADING AND EROSION CONTROL PLANS

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

CALL 2–BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

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 LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON–SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS 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 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 OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
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 MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE–EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION 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, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON–SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
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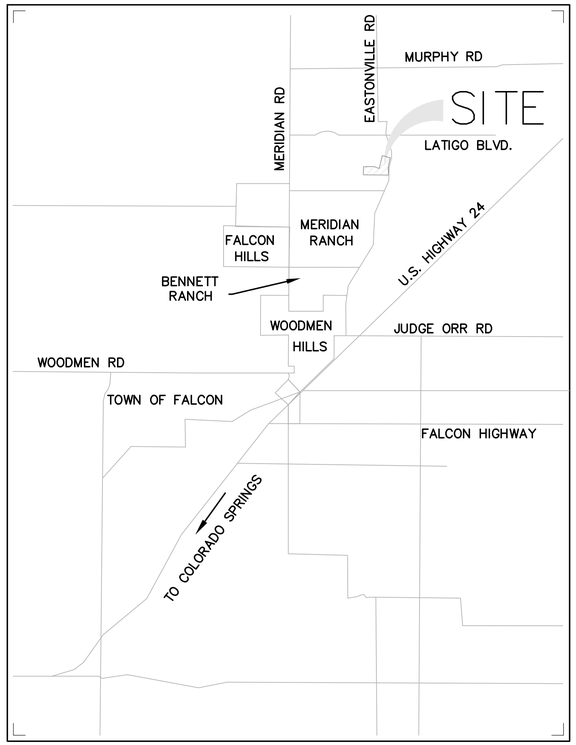
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF–SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF–SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF 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 A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON–SITE 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 REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ON–SITE 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 THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITTEE 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 THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INCORPERATED, JANUARY 20, 2021 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 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 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246–1530
ATTN: PERMITS UNIT



VICINITY MAP
NOT TO SCALE

N

CONTACTS

OWNER/DEVELOPER: BRJM, LLC
CONTACT: BOB IRWIN
101 N. CASCADE, SUITE 200
COLORADO SPRINGS, CO 80903
(719) 475–7474

CIVIL ENGINEER: DREXEL BARRELL & CO.
CONTACT: TIM D. McCONNELL, P.E.
101 SAHWATCH STREET, #100
COLORADO SPRINGS, CO 80903
(719) 260–0887

EL PASO COUNTY: PLANNING AND COUNTY DEVELOPMENT
2880 INTERNATIONAL CIRCLE, SUITE 110
COLORADO SPRINGS, COLORADO 80910
(719) 520–6819

DEPARTMENT OF PUBLIC WORKS
3257 AKERS DR
COLORADO SPRINGS, CO 80910
(719) 529–6460

DISTRICT: MERIDIAN SERVICE METROPOLITAN DISTRICT
11886 STAPLETON DR
PEYTON, CO 80831
(719) 495–6567

FIRE PROTECTION DISTRICT: FALCON FIRE FPD
7030 N MERIDIAN RD
FALCON, CO 80831
(719) 494–4050

ELECTRIC: MOUNTAIN VIEW ELECTRIC ASSOC., INC.
11140 EAST WOODMEN ROAD
FALCON, COLORADO 80831
(719)495–2283

SHEET INDEX

OWNER'S STATEMENT

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

ROBERT C. IRWIN DATE

DESIGN ENGINEER'S STATEMENT

THIS GRADING AND 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 ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

TIM D. MCCONNELL DATE
P.E.# 33797

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 THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, 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 DIRECTOR'S DISCRETION.

JOSHUA PALMER, P.E. DATE
COUNTY ENGINEER

SF2421

PREPARED BY:
DREXEL, BARRELL & CO.
Engineers • Surveyors
101 SAHWATCH ST. #100
COLORADO SPGS, COLORADO 80903
CONTACT: TIM D. McCONNELL, P.E.
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COLORADO SPRINGS • LAFAYETTE

CLIENT:

FALCON LATIGO, LLC
5350 S. ROSLYN ST, STE #400
ENGLEWOOD, CO 80111–2125
(303) 694–0862

GRADING & EROSION CONTROL PLANS FOR:
LATIGO TRAILS
FILING NO. 10
EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	21820–01CV3

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

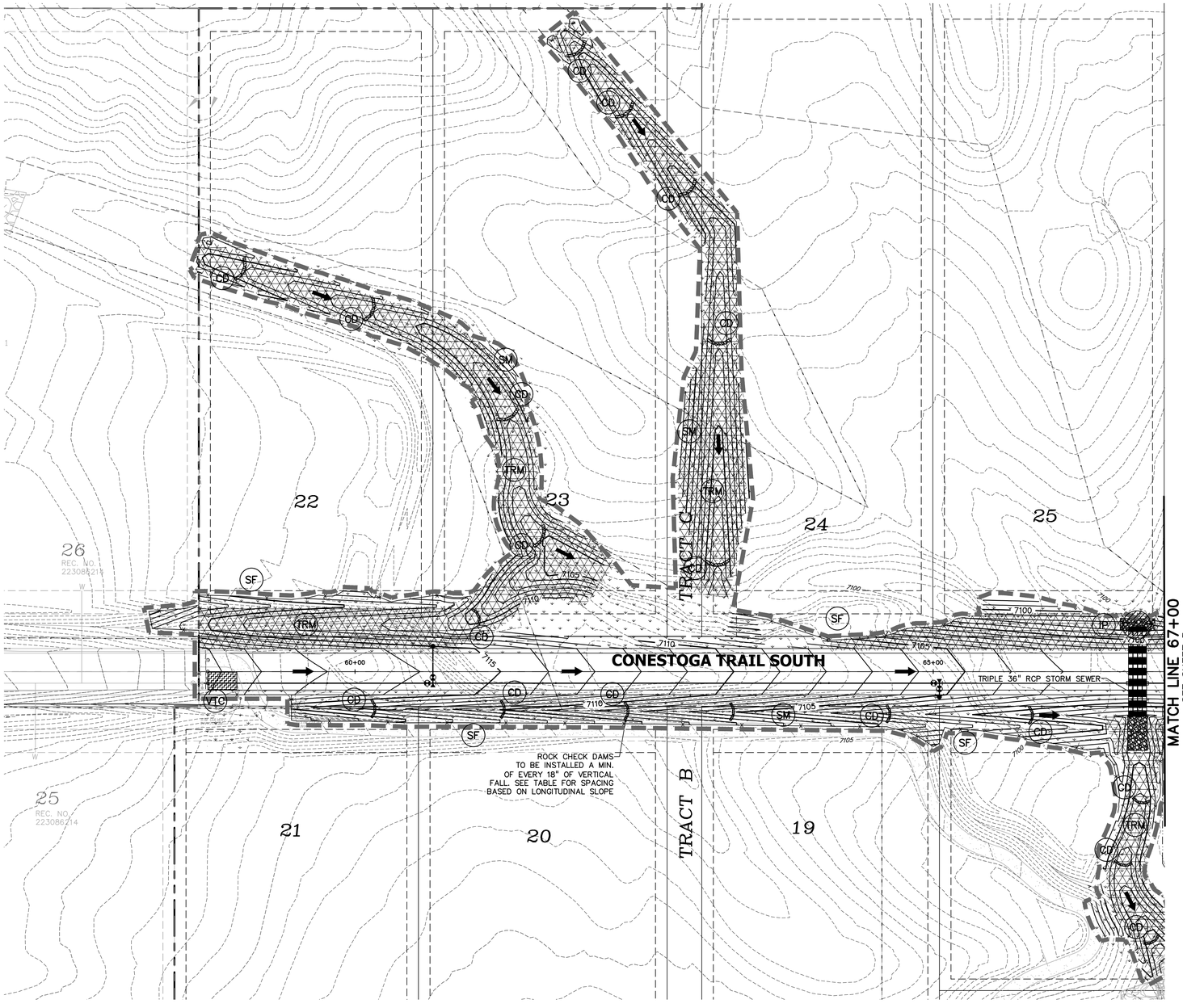
COVER SHEET

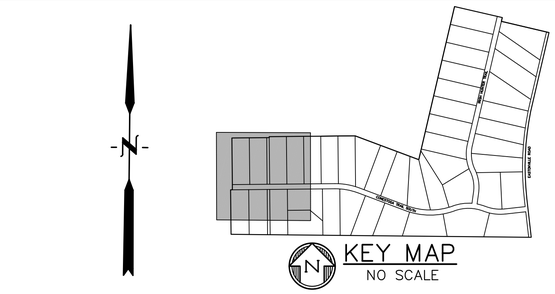
PROJECT NO. 21820–01CSCV

DRAWING NO.

CV–1

SHEET: 1 OF 18





50 20 0 50 100

SCALE: 1"=50'

NOTES:

1. EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
2. STABILIZED STAGING AREA AND CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE CONTRACTOR AND NOTED ON THIS PLAN.
3. THE PROJECT SITE IS OUTSIDE OF THE 100-YEAR FLOODPLAIN.
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5. DEWATERING OPERATIONS ARE NOT ANTICIPATED FOR THIS PROJECT.
6. ALL SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.

BMP PHASING:

INITIAL/INTERIM
1. INSTALL VTC
2. INSTALL CWA
3. ESTABLISH SSA & STOCKPILE LOCATIONS
4. INSTALL CONSTRUCTION FENCE
5. INSTALL SILT FENCE
6. INSTALL ROUGH CUT STREET CONTROL
7. INSTALL SEDIMENT BASINS
8. INSTALL SWALES
9. INSTALL CHECK DAMS
10. INSTALL INLET/OUTLET PROTECTION

FINAL
1. INSTALL MULCH AND PERMANENT SEEDING IN ALL DISTURBED AREAS.
2. REMOVE ALL TEMPORARY BMPS AFTER FINAL STABILIZATION HAS BEEN REACHED.

LEGEND

PROPOSED INTERMEDIATE CONTOUR 5522
PROPOSED INDEX CONTOUR 5520
EX INTERMEDIATE CONTOUR 5364
EX INDEX CONTOUR 5365
DIRECTION OF FLOW .....
PROJECT BOUNDARY/PROPERTY LINE .....
ROW .....
LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY .....
CUT/FILL LINE ..... CUT / FILL
INTERIM/FINAL INLET PROTECTION ..... IP
INITIAL/INTERIM SILT FENCE ..... SF
INITIAL/INTERIM CONCRETE WASHOUT AREA ..... CWA
INITIAL/INTERIM VEHICLE TRACKING CONTROL ..... VTC
INITIAL/INTERIM STABILIZED STAGING AREA ..... SSA
INITIAL/INTERIM ROCK SOCKS ..... RS
INITIAL/INTERIM ROCK CHECK DAM ..... CD
INITIAL/INTERIM TEMPORARY SEDIMENT BASIN ..... TSB
FINAL SEEDING AND MULCHING ..... SM
FINAL TURF REINFORCEMENT MAT (VMAX SC250 OR APPROVED EQUIVALENT) ..... TRM

CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

CHECK DAM SPACING	
DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
1.0	150
2.0	75
3.0	50
4.0	37.5
5.0	30
6.0	25

SF2421

PREPARED BY:

DREXEL, BARRELL & CO.
Engineers • Surveyors
101 SAHWATCH ST. #100
COLORADO SPGS, COLORADO 80903
CONTACT: TIM D. McCONNELL, P.E.
(719)260-0887
COLORADO SPRINGS • LAFAYETTE

CLIENT:

FALCON LATIGO, LLC
5350 S. ROSLYN ST. STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	TDM
DRAWN BY:	GES
CHECKED BY:	TDM
FILE NAME:	21820-01GC1

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: N/A

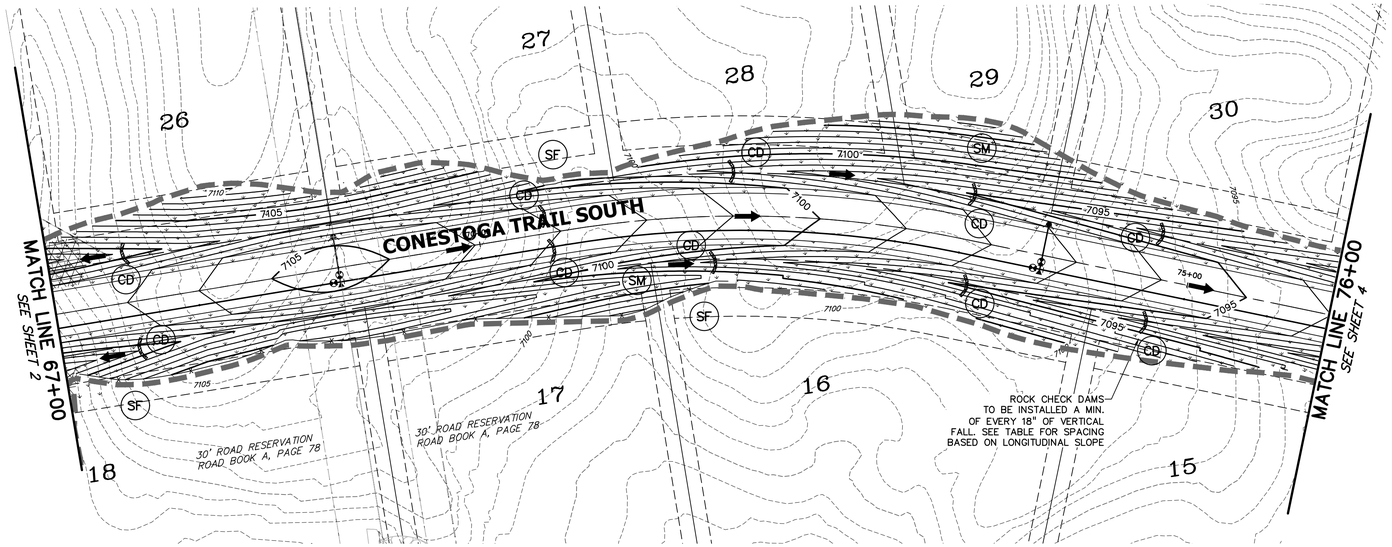
CONESTOGA TR. GRADING & ERSN CNTL PLAN

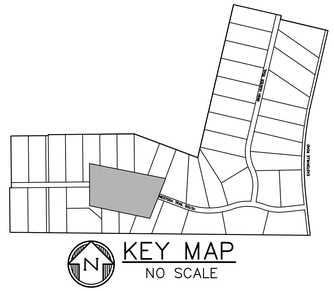
PROJECT NO. 21820-01CSCV

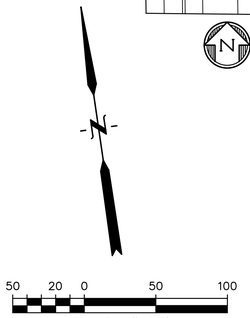
DRAWING NO.

EC-1

SHEET: 2 OF 18







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PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

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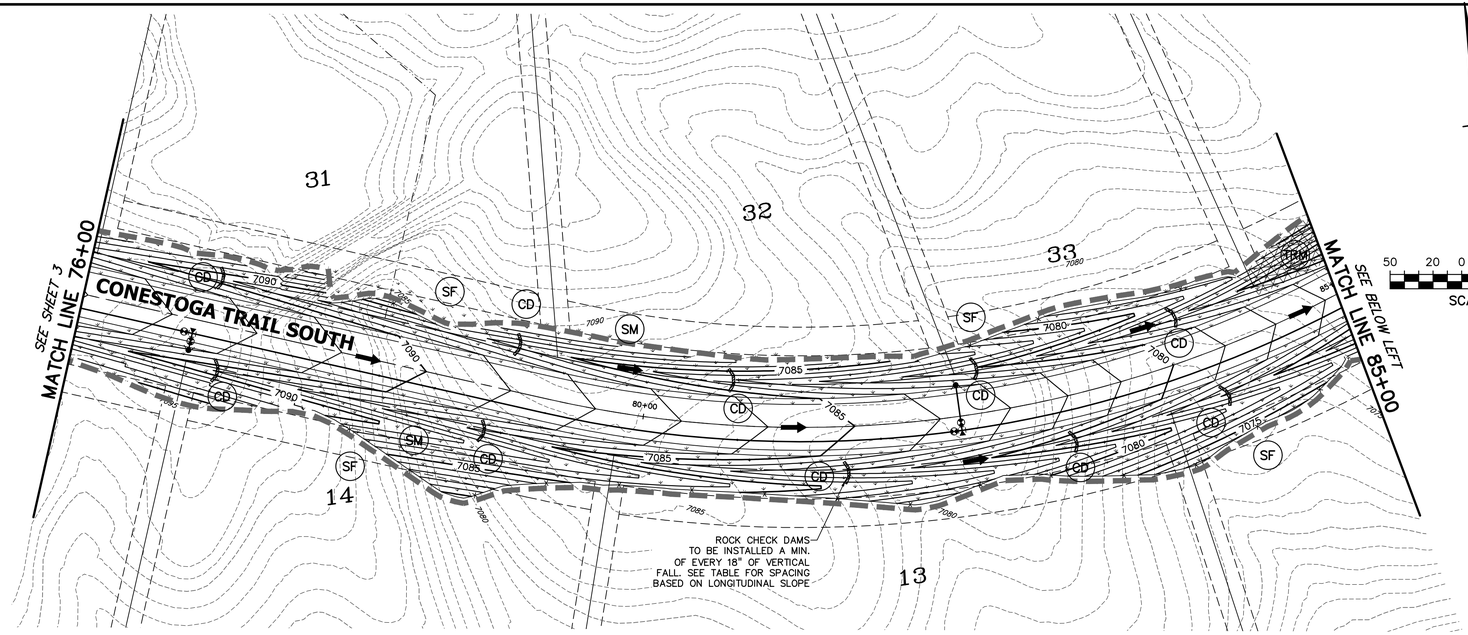
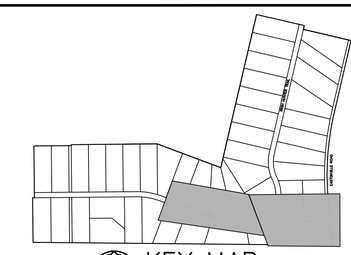
VERTICAL: N/A

CONESTOGA TR. GRADING & ERSN CNTL PLAN

PROJECT NO. 21820-01CSCV
DRAWING NO.
EC-2
SHEET: 3 OF 18





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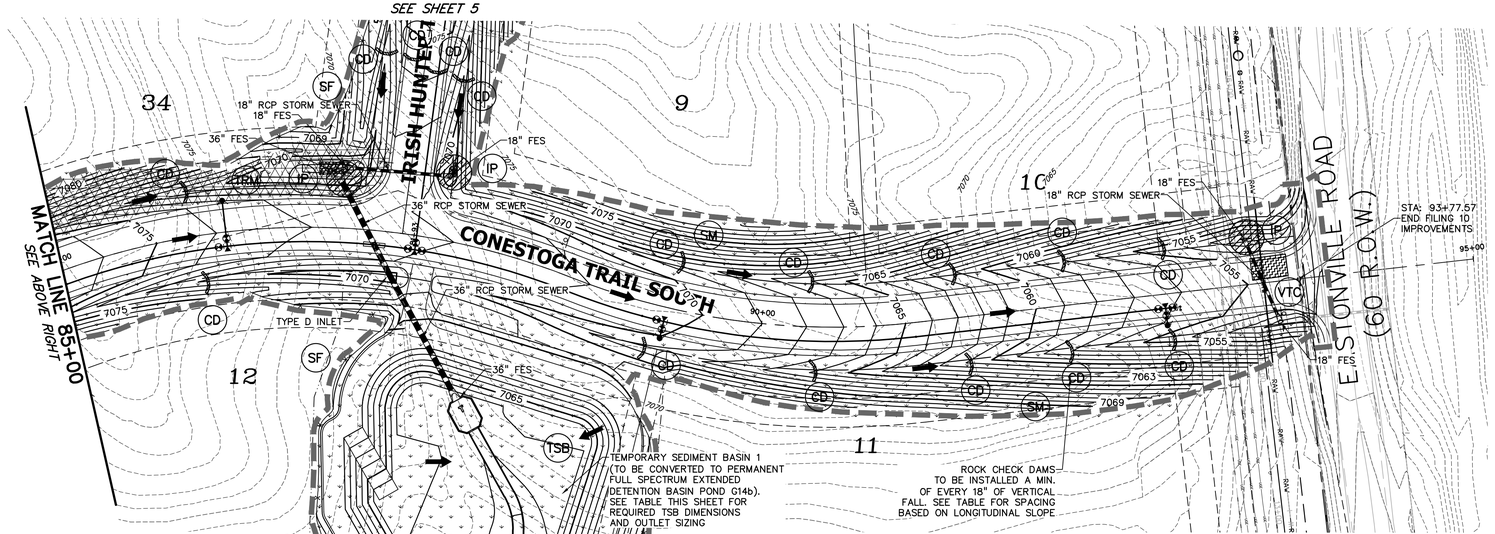
6. ALL SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.

BMP PHASING:

INITIAL/INTERIM
1. INSTALL VTC
2. INSTALL CWA
3. ESTABLISH SSA & STOCKPILE LOCATIONS
4. INSTALL CONSTRUCTION FENCE
5. INSTALL SILT FENCE
6. INSTALL ROUGH CUT STREET CONTROL
7. INSTALL SEDIMENT BASINS
8. INSTALL SWALES
9. INSTALL CHECK DAMS
10. INSTALL INLET/OUTLET PROTECTION

FINAL
1. INSTALL MULCH AND PERMANENT SEEDING IN ALL DISTURBED AREAS.
2. REMOVE ALL TEMPORARY BMPS AFTER FINAL STABILIZATION HAS BEEN REACHED.



LEGEND

- PROPOSED INTERMEDIATE CONTOUR 5522
- PROPOSED INDEX CONTOUR 5520
- EX INTERMEDIATE CONTOUR 5364
- EX INDEX CONTOUR 5365
- DIRECTION OF FLOW ..... ←
- PROJECT BOUNDARY/PROPERTY LINE .....
- ROW .....
- LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY .....
- CUT/FILL LINE ..... CUT / FILL
- INTERIM/FINAL INLET PROTECTION ..... IP
- INITIAL/INTERIM SILT FENCE ..... SF
- INITIAL/INTERIM CONCRETE WASHOUT AREA ..... CWA
- INITIAL/INTERIM VEHICLE TRACKING CONTROL ..... VTC
- INITIAL/INTERIM STABILIZED STAGING AREA ..... SSA
- INITIAL/INTERIM ROCK SOCKS ..... RS
- INITIAL/INTERIM ROCK CHECK DAM ..... CD
- INITIAL/INTERIM TEMPORARY SEDIMENT BASIN ..... TSB
- FINAL SEEDING AND MULCHING ..... SM
- FINAL TURF REINFORCEMENT MAT (VMAX SC250 OR APPROVED EQUIVALENT) ..... TRM

CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

CHECK DAM SPACING	
DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
1.0	150
2.0	75
3.0	50
4.0	37.5
5.0	30
6.0	25

TEMPORARY SEDIMENT BASINS

SEE TABLE BELOW FOR MIN. DIMENSIONS. REFERENCE DETAIL SHEETS FOR FURTHER INFORMATION

TEMPORARY SEDIMENT BASIN SIZING (SEE DETAILS)							
LOCATION	TRIBUTARY AREA (AC)	TRIBUTARY DISTURBED AREA (AC)	MIN. STORAGE VOLUME (CF)*	MIN. BASIN BOTTOM LENGTH (FT)	MIN. BASIN BOTTOM WIDTH (FT)	SPILLWAY CREST LENGTH (FT)	HOLE DIAMETER (IN)
TSB 1 (Pond G14b)	40.6	6.8	41486	74	37	22	1-3/16
TSB 2 (Pond G18)	25.5	4.3	26079	74	37	22	1-3/16
TSB 3 (Pond G19)	27.6	3.8	25715	74	37	22	1-3/16

* 3600 CF/AC DISTURBED TRIBUTARY AREA + 500 CF/AC UNDISTURBED

SF2421

PREPARED BY:
DREXEL, BARRELL & CO.
Engineers • Surveyors
101 SAHWATCH ST. #100
COLORADO SPGS, COLORADO 80903
CONTACT: TIM D. McCONNELL, P.E.
(719)260-0887
COLORADO SPRINGS • LAFAYETTE

CLIENT:
FALCON LATIGO, LLC
5350 S. ROSLYN ST. STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:
LATIGO TRAILS FILING NO. 10
EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	TDM
DRAWN BY:	GES
CHECKED BY:	TDM
FILE NAME:	21820-01GC1

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

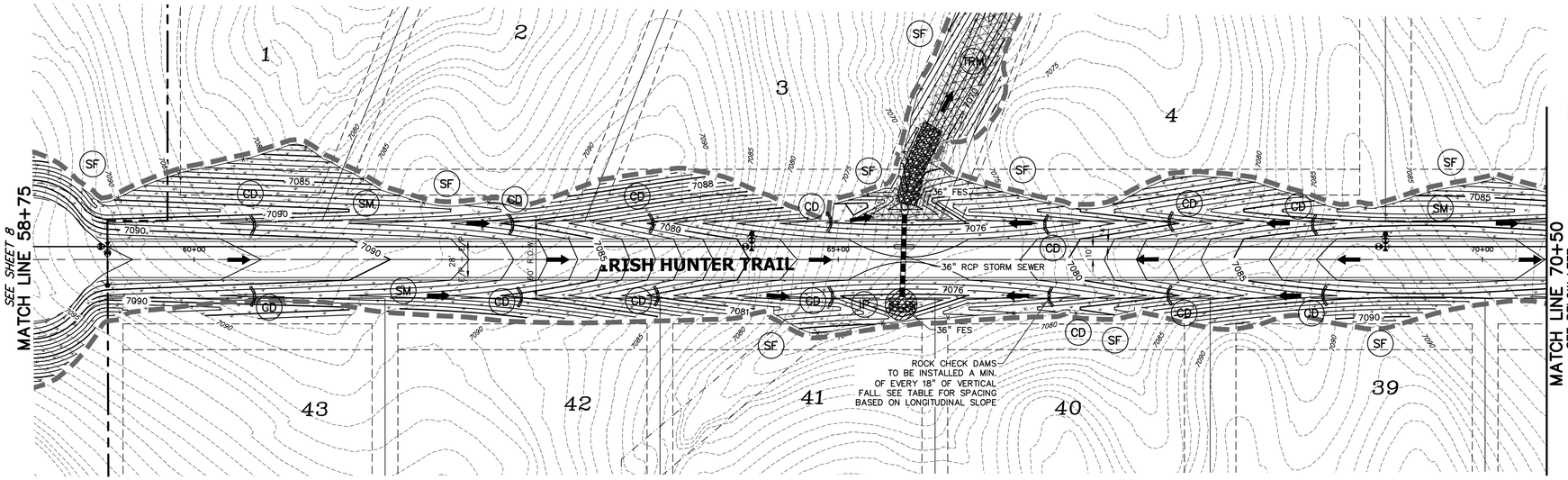
DRAWING SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: N/A

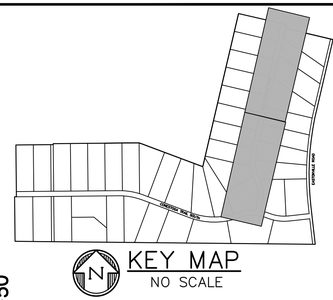
CONESTOGA TR. GRADING & ERSN CNTL PLAN

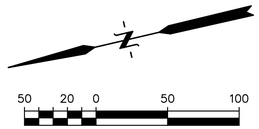
PROJECT NO. 21820-01CSCV
DRAWING NO.

EC-3

SHEET: 4 OF 18







LEGEND

- PROPOSED INTERMEDIATE CONTOUR 5522
- PROPOSED INDEX CONTOUR 5520
- EX INTERMEDIATE CONTOUR 5364
- EX INDEX CONTOUR 5365
- DIRECTION OF FLOW .....
- PROJECT BOUNDARY/PROPERTY LINE .....
- ROW .....
- LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY .....
- CUT/FILL LINE ..... CUT / FILL
- INTERIM/FINAL INLET PROTECTION ..... IP
- INITIAL/INTERIM SILT FENCE ..... SF
- INITIAL/INTERIM CONCRETE WASHOUT AREA ..... CWA
- INITIAL/INTERIM VEHICLE TRACKING CONTROL ..... VTC
- INITIAL/INTERIM STABILIZED STAGING AREA ..... SSA
- INITIAL/INTERIM ROCK SOCKS ..... RS
- INITIAL/INTERIM ROCK CHECK DAM ..... CD
- INITIAL/INTERIM TEMPORARY SEDIMENT BASIN ..... TSB
- FINAL SEEDING AND MULCHING ..... SM
- FINAL TURF REINFORCEMENT MAT ..... TRM
  (VMAX SC250 OR APPROVED EQUIVALENT)

NOTES:

1. EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
2. STABILIZED STAGING AREA AND CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE CONTRACTOR AND NOTED ON THIS PLAN.
3. THE PROJECT SITE IS OUTSIDE OF THE 100-YEAR FLOODPLAIN.
4. THERE ARE NO DEDICATED ASPHALT OR CONCRETE BATCH PLANTS ARE PROPOSED AS PART OF THIS PROJECT.
5. DEWATERING OPERATIONS ARE NOT ANTICIPATED FOR THIS PROJECT.
6. ALL SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.

CHECK DAM SPACING

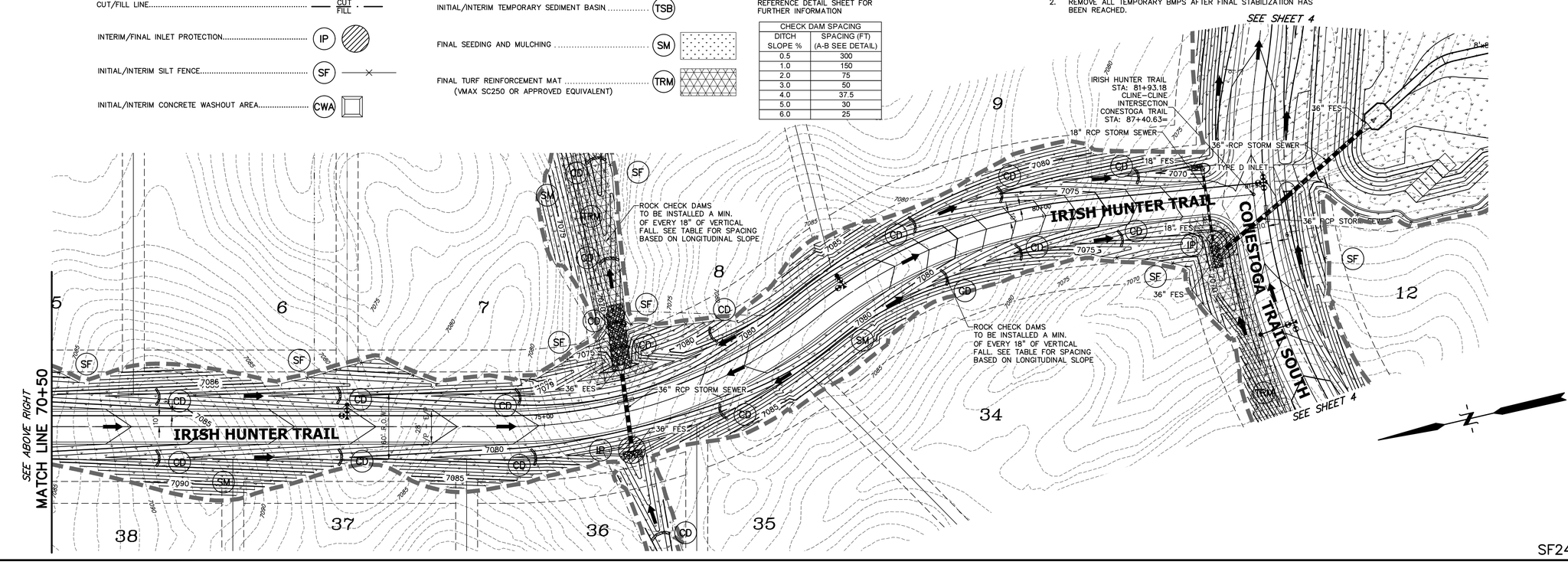
REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

CHECK DAM SPACING	
DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
1.0	150
2.0	75
3.0	50
4.0	37.5
5.0	30
6.0	25

BMP PHASING:

INITIAL/INTERIM
1. INSTALL VTC
2. INSTALL CWA
3. ESTABLISH SSA & STOCKPILE LOCATIONS
4. INSTALL CONSTRUCTION FENCE
5. INSTALL SILT FENCE
6. INSTALL ROUGH CUT STREET CONTROL
7. INSTALL SEDIMENT BASINS
8. INSTALL SWALES
9. INSTALL CHECK DAMS
10. INSTALL INLET/OUTLET PROTECTION

FINAL
1. INSTALL MULCH AND PERMANENT SEEDING IN ALL DISTURBED AREAS.
2. REMOVE ALL TEMPORARY BMPS AFTER FINAL STABILIZATION HAS BEEN REACHED.



SF2421

PREPARED BY:

DREXEL, BARRELL & CO.
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CONTACT: TIM D. McCONNELL, P.E.
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CLIENT:

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ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	TDM
DRAWN BY:	GES
CHECKED BY:	TDM
FILE NAME:	21820-01GC2

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: N/A

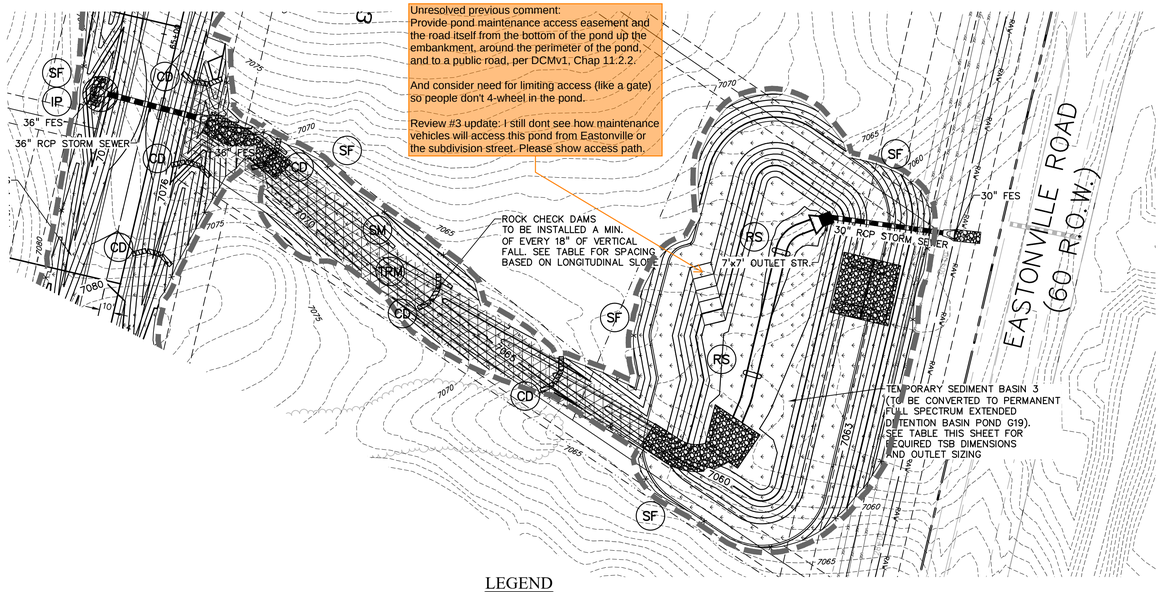
IRISH HUNTER GRADING & ERSN CNTL PLAN

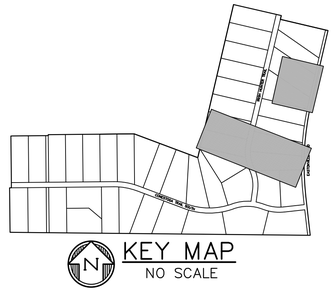
PROJECT NO. 21820-01CSCV

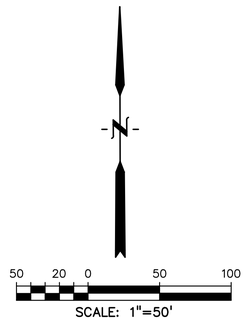
DRAWING NO.

EC-4

SHEET: 5 OF 18







LEGEND

- PROPOSED INTERMEDIATE CONTOUR 5522
- PROPOSED INDEX CONTOUR 5520
- EX INTERMEDIATE CONTOUR 5364
- EX INDEX CONTOUR 5365
- DIRECTION OF FLOW .....
- PROJECT BOUNDARY/PROPERTY LINE .....
- ROW .....
- LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY .....
- CUT/FILL LINE ..... CUT / FILL
- INTERIM/FINAL INLET PROTECTION ..... IP
- INITIAL/INTERIM SILT FENCE ..... SF
- INITIAL/INTERIM CONCRETE WASHOUT AREA ..... CWA
- INITIAL/INTERIM VEHICLE TRACKING CONTROL ..... VTC
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- INITIAL/INTERIM ROCK CHECK DAM ..... CD
- INITIAL/INTERIM TEMPORARY SEDIMENT BASIN ..... TSB
- FINAL SEEDING AND MULCHING ..... SM
- FINAL TURF REINFORCEMENT MAT (VMAX SC250 OR APPROVED EQUIVALENT) ..... TRM

NOTES:

1. EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
2. STABILIZED STAGING AREA AND CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE CONTRACTOR AND NOTED ON THIS PLAN.
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BMP PHASING:

INITIAL/INTERIM
1. INSTALL VTC
2. INSTALL CWA
3. ESTABLISH SSA & STOCKPILE LOCATIONS
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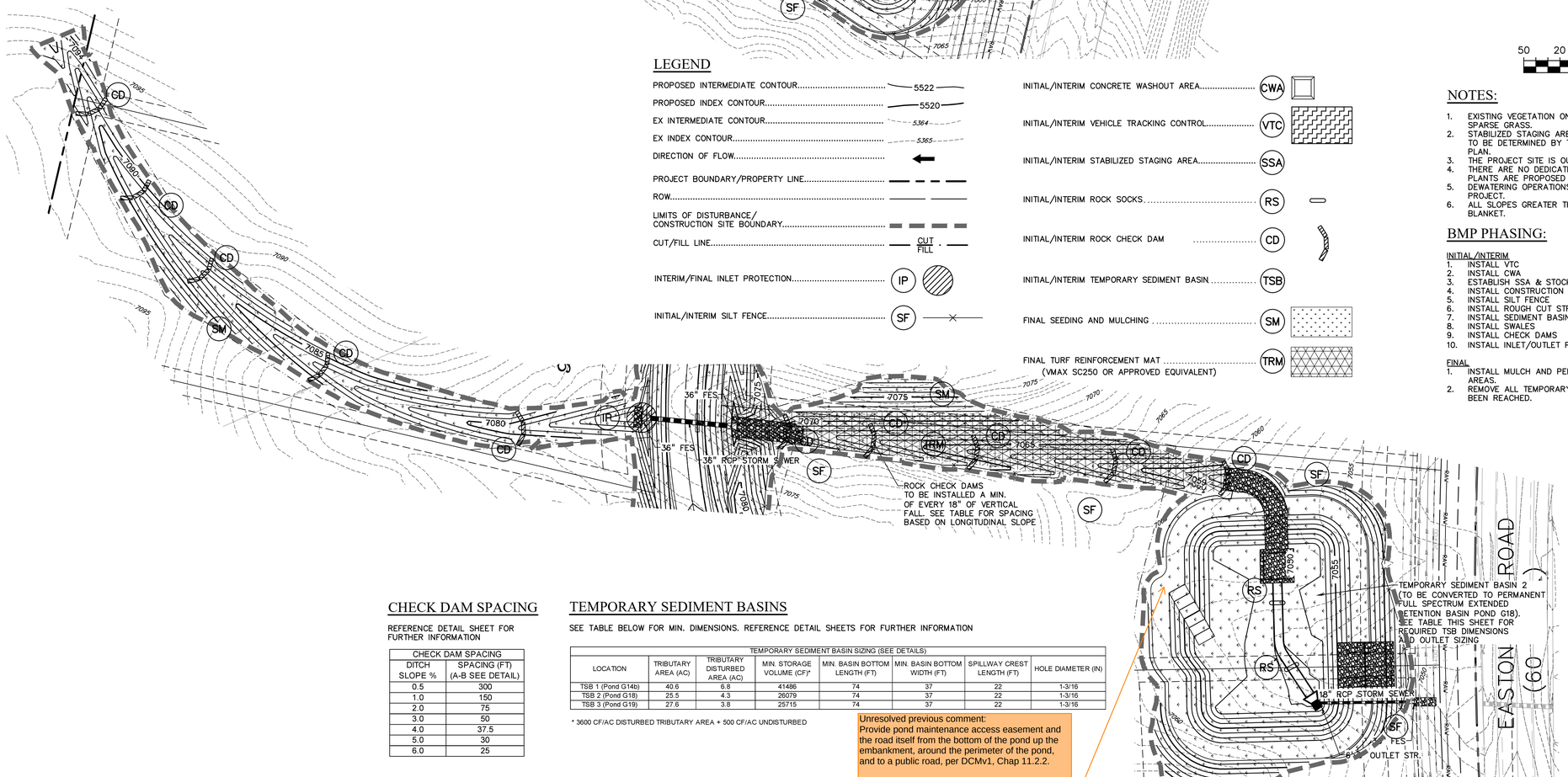

CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

CHECK DAM SPACING	
DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
1.0	150
2.0	75
3.0	50
4.0	37.5
5.0	30
6.0	25

TEMPORARY SEDIMENT BASINS

SEE TABLE BELOW FOR MIN. DIMENSIONS. REFERENCE DETAIL SHEETS FOR FURTHER INFORMATION

TEMPORARY SEDIMENT BASIN SIZING (SEE DETAILS)							
LOCATION	TRIBUTARY AREA (AC)	TRIBUTARY DISTURBED AREA (AC)	MIN. STORAGE VOLUME (CF)*	MIN. BASIN BOTTOM LENGTH (FT)	MIN. BASIN BOTTOM WIDTH (FT)	SPILLWAY CREST LENGTH (FT)	HOLE DIAMETER (IN)
TSB 1 (Pond G14b)	40.6	6.8	41486	74	37	22	1-3/16
TSB 2 (Pond G18)	25.5	4.3	26079	74	37	22	1-3/16
TSB 3 (Pond G19)	27.6	3.8	25715	74	37	22	1-3/16

* 3600 CF/AC DISTURBED TRIBUTARY AREA + 500 CF/AC UNDISTURBED

Unresolved previous comment:
Provide pond maintenance access easement and the road itself from the bottom of the pond up the embankment, around the perimeter of the pond, and to a public road, per DCMv1, Chap 11.2.2.

And consider need for limiting access (like a gate) so people don't 4-wheel in the pond.

Review #3 update: I still dont see how maintenance vehicles will access this pond from Eastonville or the subdivision street. Please show access path.

SF2421

PREPARED BY:
DREXEL, BARRELL & CO.
Engineers • Surveyors
101 SAHWATCH ST. #100
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(719)260-0887
COLORADO SPRINGS • LAFAYETTE

CLIENT:

FALCON LATIGO, LLC
5350 S. ROSLYN ST, STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	TDM
DRAWN BY:	GES
CHECKED BY:	TDM
FILE NAME:	21820-01GC2

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: N/A

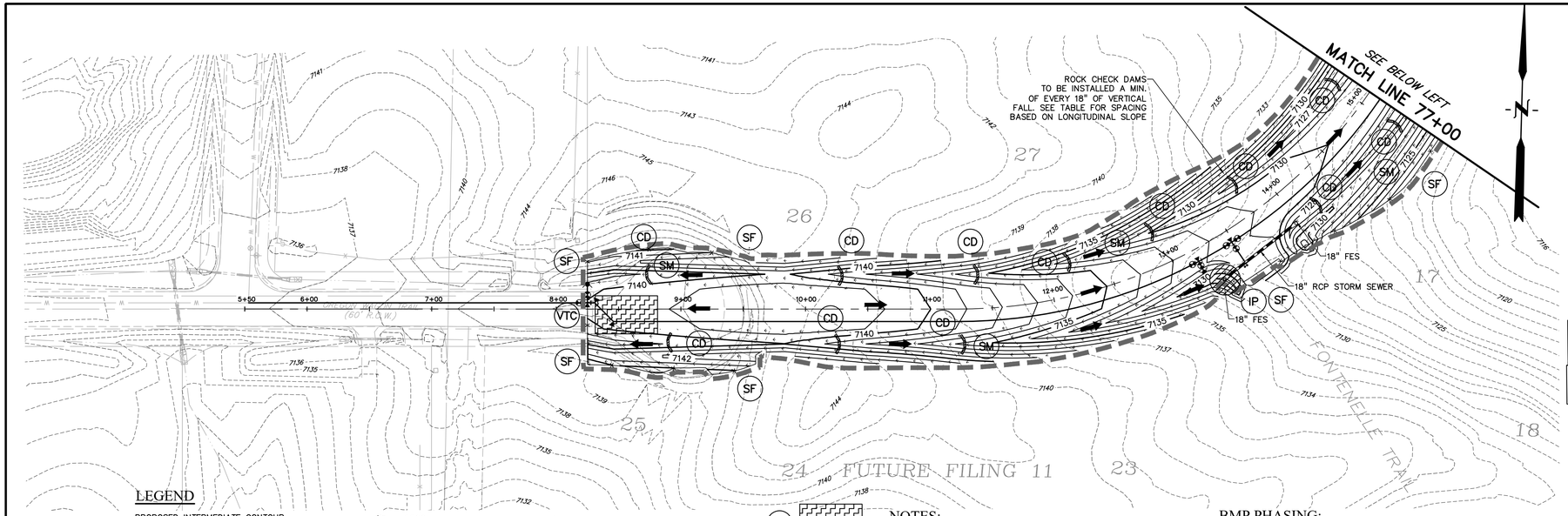
POND G18 & G19 ERSN CNTL PLAN

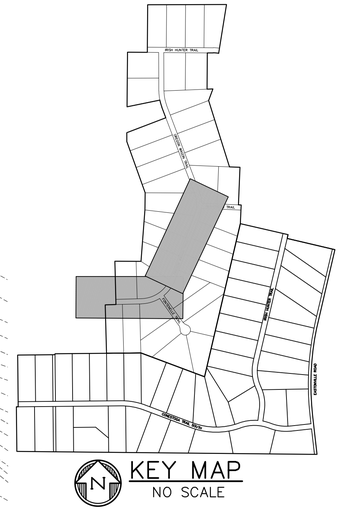
PROJECT NO. 21820-01CSCV

DRAWING NO.

EC-5

SHEET: 6 OF 18





KEY MAP
NO SCALE

50 20 0 50 100
SCALE: 1"=50'

LEGEND

- PROPOSED INTERMEDIATE CONTOUR 5522
- PROPOSED INDEX CONTOUR 5520
- EX INTERMEDIATE CONTOUR 5364
- EX INDEX CONTOUR 5365
- DIRECTION OF FLOW .....
- PROJECT BOUNDARY/PROPERTY LINE .....
- ROW .....
- LIMITS OF DISTURBANCE / CONSTRUCTION SITE BOUNDARY .....
- CUT/FILL LINE ..... CUT / FILL
- INTERIM/FINAL INLET PROTECTION ..... IP
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- INITIAL/INTERIM STABILIZED STAGING AREA ..... SSA
- INITIAL/INTERIM ROCK SOCKS ..... RS
- INITIAL/INTERIM ROCK CHECK DAM ..... CD
- INITIAL/INTERIM TEMPORARY SEDIMENT BASIN ..... TSB
- FINAL SEEDING AND MULCHING ..... SM
- FINAL TURF REINFORCEMENT MAT (VMAX SC250 OR APPROVED EQUIVALENT) ..... TRM

NOTES:

1. EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
2. STABILIZED STAGING AREA AND CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE CONTRACTOR AND NOTED ON THIS PLAN.
3. THE PROJECT SITE IS OUTSIDE OF THE 100-YEAR FLOODPLAIN.
4. THERE ARE NO DEDICATED ASPHALT OR CONCRETE BATCH PLANTS ARE PROPOSED AS PART OF THIS PROJECT.
5. DEWATERING OPERATIONS ARE NOT ANTICIPATED FOR THIS PROJECT.
6. ALL SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.

CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

CHECK DAM SPACING	
DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
1.0	150
2.0	75
3.0	50
4.0	37.5
5.0	30
6.0	25

BMP PHASING:

INITIAL/INTERIM
1. INSTALL VTC
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FINAL
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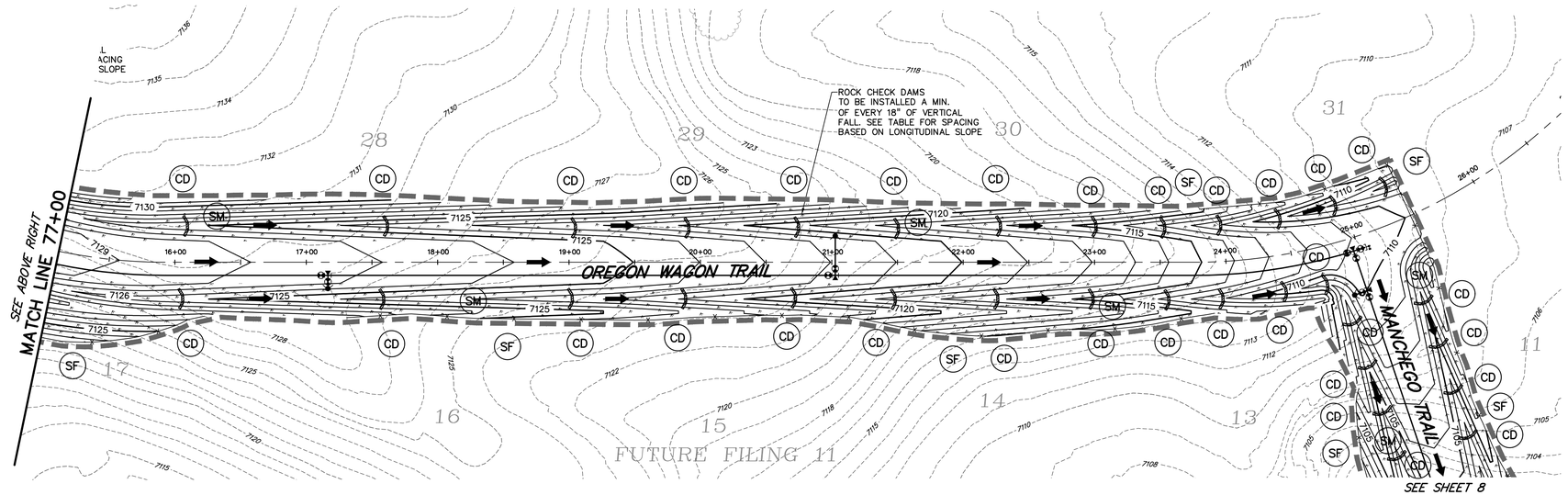

SF2421

PREPARED BY:

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COLORADO SPGS, COLORADO 80903
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GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	TDM
DRAWN BY:	GES
CHECKED BY:	TDM
FILE NAME:	21820-01GC3

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: N/A

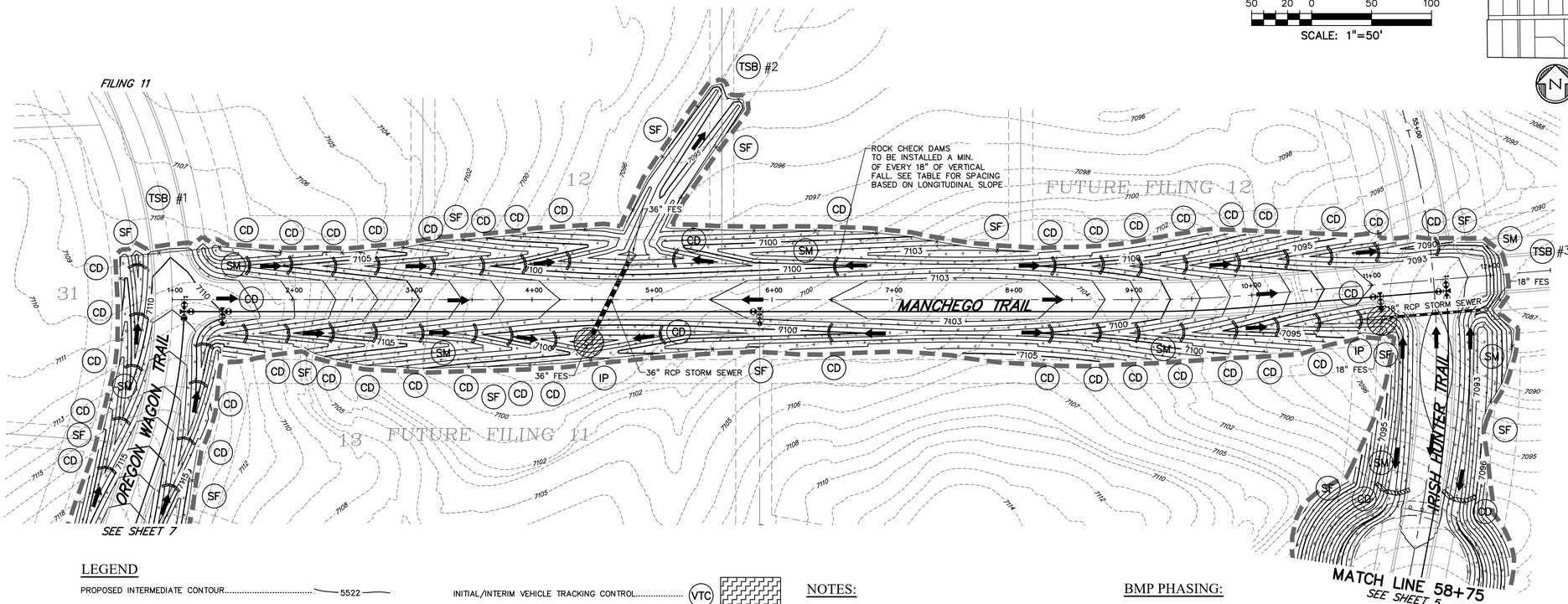
OREGON WAGON TRAIL GRADING & ERSN CNTL PLAN

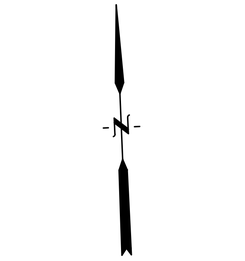
PROJECT NO. 21820-01CSCV

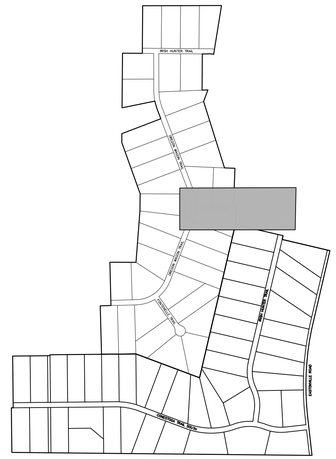
DRAWING NO.

EC-6

SHEET: 7 OF 18







LEGEND

- PROPOSED INTERMEDIATE CONTOUR 5522
- PROPOSED INDEX CONTOUR 5520
- EX INTERMEDIATE CONTOUR 5364
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- INITIAL/INTERIM ROCK CHECK DAM ..... CD
- INITIAL/INTERIM TEMPORARY SEDIMENT BASIN ..... TSB
- FINAL SEEDING AND MULCHING ..... SM
- FINAL TURF REINFORCEMENT MAT ..... TRM
  (VMAX SC250 OR APPROVED EQUIVALENT)

NOTES:

1. EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
2. STABILIZED STAGING AREA AND CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE CONTRACTOR AND NOTED ON THIS PLAN.
3. THE PROJECT SITE IS OUTSIDE OF THE 100-YEAR FLOODPLAIN.
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CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

CHECK DAM SPACING	
DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
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BMP PHASING:

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1. INSTALL VTC
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4. INSTALL CONSTRUCTION FENCE
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8. INSTALL SWALES
9. INSTALL CHECK DAMS
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FINAL

1. INSTALL MULCH AND PERMANENT SEEDING IN ALL DISTURBED AREAS.
2. REMOVE ALL TEMPORARY BMPS AFTER FINAL STABILIZATION HAS BEEN REACHED.

SF2421

PREPARED BY:

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LATIGO TRAILS
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FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	TDM
DRAWN BY:	GES
CHECKED BY:	TDM
FILE NAME:	21820-01GC4

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: N/A

MANCHEGO TR. TRAIL GRADING & ERSN CNTL PLAN

PROJECT NO. 21820-01CSCV

DRAWING NO.

EC-7

SHEET: 8 OF 18

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−14.873	−0.060	CUT
2	−0.050	0.050	
3	0.060	9.892	FILL

150 75 0 150 300

SCALE: 1"=150'

SF2421

PREPARED BY:

DREXEL, BARRELL & CO.
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101 SAHWATCH ST. #100
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CLIENT:

FALCON LATIGO, LLC
5350 S. ROSLYN ST. STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	TDM
DRAWN BY:	GES
CHECKED BY:	TDM
FILE NAME:	21820-01GC5

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: 1" = 150'
VERTICAL: N/A

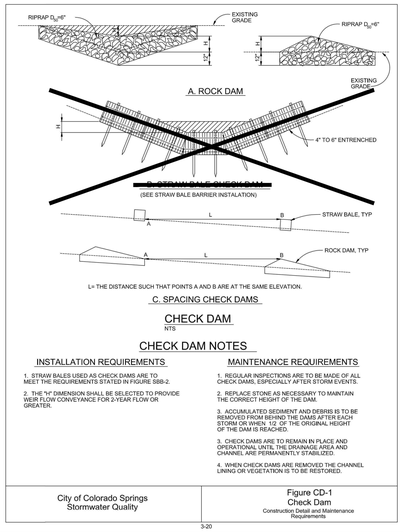
CUT-FILL PLAN

PROJECT NO. 21820-01CSCV

DRAWING NO.

EC-8

SHEET: 9 OF 18



CHECK DAM
NTS

CHECK DAM NOTES

INSTALLATION REQUIREMENTS

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

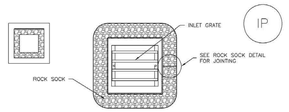
MAINTENANCE REQUIREMENTS

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

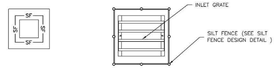
Figure CD-1
Check Dam
Construction Detail and Maintenance Requirements

3-20



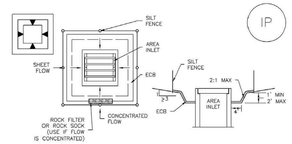
IP–3, ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES
1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.



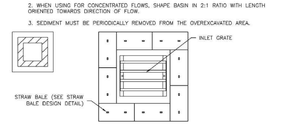
IP–4, SILT FENCE FOR SUMP INLET PROTECTION

SILT FENCE INLET PROTECTION INSTALLATION NOTES
1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.
3. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.



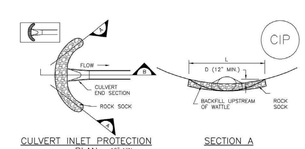
IP–5, OVEREXCAVATION INLET PROTECTION

OVEREXCAVATION INLET PROTECTION INSTALLATION NOTES
1. THIS FORM OF INLET PROTECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FINAL GRADE AND SHOULD BE USED ONLY FOR INLETS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.
2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.
3. SEDIMENT MUST BE PERIODICALLY REMOVED FROM THE OVEREXCAVATED AREA.

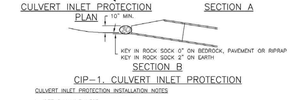


IP–6, STRAW BALE FOR SUMP INLET PROTECTION

STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES
1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES TIGHTLY ABUTTING ONE ANOTHER.



CULVERT INLET PROTECTION PLAN



SECTION A

SECTION B

CIP–1, CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
–LOCATION OF CULVERT INLET PROTECTION.
2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING DETAIL.

CULVERT INLET PROTECTION 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. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS ½ THE HEIGHT OF THE ROCK SOCK.
5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

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.

GENERAL INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
–LOCATION OF INLET PROTECTION.
–TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)
2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.
3. 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.

INLET PROTECTION 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. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR ¼ OF THE HEIGHT FOR STRAW BALES.
5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

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.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT PROPRIETARY INLET PROTECTION IS USED, THE MANUFACTURER'S DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

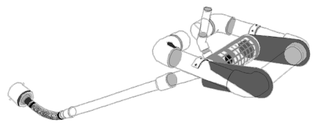


Illustration SB-1. Outlet structure for a temporary sediment basin - Faircloth Skimmer Floating Outlet. Illustration courtesy of J. W. Faircloth & Sons, Inc., FairclothSkimmer.com.

- **Outlet Protection and Spillway:** Consider all flow paths for runoff leaving the basin, including protection at the typical point of discharge as well as overtopping.
  - **Outlet Protection:** Outlet protection should be provided where the velocity of flow will exceed the maximum permissible velocity of the material of the waterway into which discharge occurs. This may require the use of a riprap apron at the outlet location and/or other measures to keep the waterway from eroding.
  - **Emergency Spillway:** Provide a stabilized emergency overflow spillway for rainstorms that exceed the capacity of the sediment basin volume and its outlet. Protect basin embankments from erosion and overtopping. If the sediment basin will be converted to a permanent detention basin, design and construct the emergency spillway(s) as required for the permanent facility. If the sediment basin will not become a permanent detention basin, it may be possible to substitute a heavy polyvinyl membrane or properly bedded rock cover to line the spillway and downstream embankment, depending on the height, slope, and width of the embankments.

Maintenance and Removal

Maintenance activities include the following:

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

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

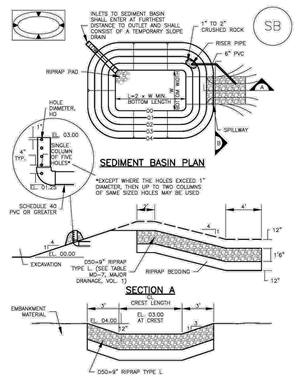


TABLE SB–1, SIZING INFORMATION FOR STANDARD SEDIMENT BASIN

Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12 &	3	3/8
2	21	3	1/2
3	28	5	5/8
4	33 &	6	3/4
5	38 &	8	7/8
6	42 &	11	1
7	47 &	11	1 1/8
8	51	12	1 1/4
9	55	13	1 3/8
10	58 &	15	1 1/2
11	61	16	1 5/8
12	64 &	18	1 3/4
13	67 &	19	1 7/8
14	70 &	21	1 &
15	73 &	22	1 &

SEDIMENT BASIN INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
–LOCATION OF SEDIMENT BASIN.
–TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
–FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD.
–FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN EMBANKMENT, RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
3. SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND–DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS AS A STORMWATER CONTROL.
4. 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.
5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
6. PIPE SCH 40 OR GREATER SHALL BE USED.
7. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) WITH TRIBUTARY AREAS OF TWO (2) ACRES OR LESS. 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.

SEDIMENT BASIN MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
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. SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).
5. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
6. WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SF2421

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GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	KGV
DRAWN BY:	KGV
CHECKED BY:	TDM
FILE NAME:	21820–01DT3

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

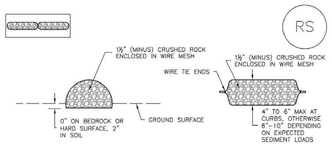
GRADING & EROSION CONTROL DETAILS

PROJECT NO. 21820–01CSCV

DRAWING NO.

DT1

SHEET: 10 OF 18



ROCK SOCK SECTION ROCK SOCK PLAN

ROCK SOCK JOINTING

GRADATION TABLE	
SIEVE SIZE	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 M43. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES.	

ROCK SOCK INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   –LOCATION(S) OF ROCK SOCKS.
2. CRUSHED ROCK SHALL BE 1½" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1½" MINUS).
3. WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF ½". RECOMMENDED MINIMUM ROLL WIDTH OF 48"
4. 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.
5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

RS–1. ROCK SOCK PERIMETER CONTROL

ROCK SOCK 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 SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.

5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY ½ OF THE HEIGHT OF THE ROCK SOCK.

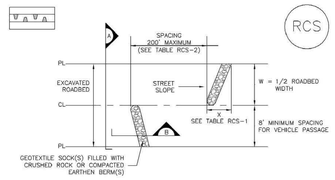
6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

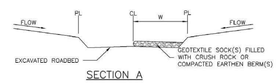
(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

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.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER NDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.



ROUGH CUT STREET CONTROL PLAN



SECTION A

SECTION B

TABLE RCS–1

W (FT)	X (FT)
20–30	5
31–40	7
41–50	9
51–60	10.5
61–70	12

TABLE RCS–2

LONGITUDINAL STREET SLOPE (%)	SPACING (FT)
<2	NOT TYPICALLY NEEDED
2	200
3	200
4	150
5	100
6	50
7	25
8	25

RCS–1. ROUGH CUT STREET CONTROL

ROUGH CUT STREET CONTROL INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   –LOCATION OF ROUGH CUT STREET CONTROL MEASURES.

2. ROUGH CUT STREET CONTROL SHALL BE INSTALLED AFTER A ROAD HAS BEEN CUT IN, AND WILL NOT BE PAVED FOR MORE THAN 14 DAYS OR FOR TEMPORARY CONSTRUCTION ROADS THAT HAVE NOT RECEIVED ROAD BASE.

ROUGH CUT STREET CONTROL INSPECTION AND 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.

(DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

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.

VMax® TRMs

ROLLMAX™ ROLLED EROSION CONTROL

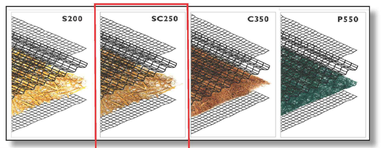
A Permanent Turf Reinforcement Mat Solution for Every Design

The VMax system of permanent TRMs are ideal for high-flow channels, streambanks, shorelines, and other areas needing permanent vegetation reinforcement and protection from water and wind. Our VMax TRMs combine a three-dimensional matting and a fiber matrix material for all-out erosion protection, vegetation establishment and reinforcement. The VMax TRMs are available with various performance capabilities and support reinforced vegetative lining development from germination to maturity.

VMax® Unique Three-Dimensional Design

North American Green VMax TRMs are each designed to maximize performance through all development phases of a reinforced vegetative lining. The corrugated matting structure lends a true reinforcement zone for vegetation entanglement, especially compared to flat net mats. The unique design of the corrugated matting also helps to create a shear plane that deflects flowing water away from the soil surface. And the incorporation of a fiber matrix supplements the 3-D structure by creating a ground cover that blocks soil movement and aids in vegetation establishment.

Four VMax Turf Reinforcement Mats Designed for Every Level of Performance



	S200	SC250	C350	P550
Matrix Fiber	100% Straw	70% Straw / 30% Coconut	100% Coconut	100% Polypropylene
Netting Types	Top and Bottom light-weight UV-stabilized PP, Crimped PP center net	Top and Bottom UV-stabilized PP, Crimped PP center net	Top and Bottom heavy-weight UV-stabilized PP, Crimped PP center net	Top and Bottom ultra heavy-weight UV-stabilized PP, Crimped PP center net
Typical Slope Applications (H:V)	1:1 and greater	1:1 and greater	1:1 and greater	1:1 and greater
Channel Shear Stress Threshold	Unvegetated: 2.3 psf Vegetated: 10.0 psf	Unvegetated: 3.0 psf Vegetated: 10.0 psf	Unvegetated: 3.2 psf Vegetated: 12.0 psf	Unvegetated: 4.0 psf Vegetated: 14.0 psf
Channel Velocity Threshold	Unvegetated: 8.5 fps Vegetated: 18 fps	Unvegetated: 9.5 fps Vegetated: 15 fps	Unvegetated: 10.5 fps Vegetated: 20 fps	Unvegetated: 12.5 fps Vegetated: 25 fps

NORTH AMERICAN GREEN

Selected product that will work for all swales above 5 ft/s. Has maximum of 15 ft/s

North American Green, LLC.
4609 E. Boonville-New Harmony Rd., Evansville, IN
(800) 772-2040 | www.nagreen.com

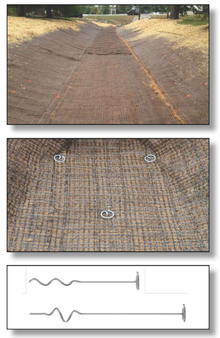
VMax® TRMs cont.

Selecting the Right VMax TRM

Choosing the right VMax TRM can be made easy by utilizing our Erosion Control Materials Design Software (www.ecmds.com), which allows users to input project specific parameters for channels, slopes, spillways, and more and ensures proper evaluation, design, and product selection in return. Our four VMax TRMs offer varying performance values, fiber matrix longevities, and price points, to help you meet your project specific goals.

Twist Pin + VMax TRM - an Ideal Installation

Utilizing the VMax TRMs in conjunction with Twist Pin fastener technology can result in an installed system that pushes TRM performance with increased factors of safety. The combined system has been shown to have superior pullout strength performance up to 200 lbs when compared to installation with traditional wire staples and pins. This is up to 10x the pullout resistance of wire staples and pins. Additionally, the use of the twist pins provides intimate contact between the TRM and the soil, and have been shown to be effective in a wide range of soil types. With a quick and easy installation using an electric drill and custom chuck, the TRM+Twist Pin system can eliminate time and labor costs from day 1 through project release.



VMax turf reinforcement mat being installed on a channel application (top right), twist pins installed with TRMs can have increased system performance and pullout resistance (middle right), twist pins are available in 8" and 12" lengths and two coil configurations designed for hard or soft soil types (lower right).

Comparison of common TRM fasteners based on pullout performance and typical application (below).

Fastener	Pullout Resistance (lb)	Comment
6" Round Top Pin	14	Best for hardened soils where other fasteners are damaged during installation.
6" Regular U-staple	42	Standard fastener that develops additional pullout as legs may deflect and add friction during installation.
12" Pin with Washer	35	Standard fastener good for soils where staples can be bent frequently and are too difficult to install.
18" Pin with Washer	27	Standard fastener good for soils where staples are frequently bent and 12" straight pins fail to provide sufficient pullout because surface soil is wet or loose.
Twist Pin	170	Upgraded fastener that provides high pullout and ideal for loose or soft soils.

NORTH AMERICAN GREEN

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SF2421

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GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	KGV
DRAWN BY:	KGV
CHECKED BY:	TDM
FILE NAME:	21820–01DT3

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

GRADING & EROSION CONTROL DETAILS

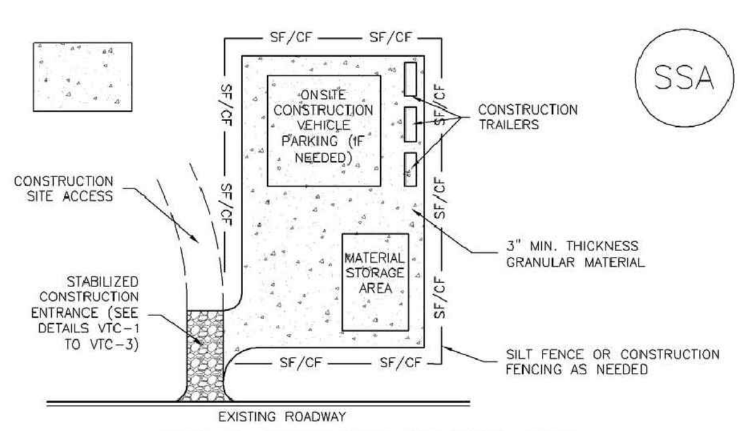
PROJECT NO. 21820–01CSCV

DRAWING NO.

DT2

SHEET: 11 OF 18

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.

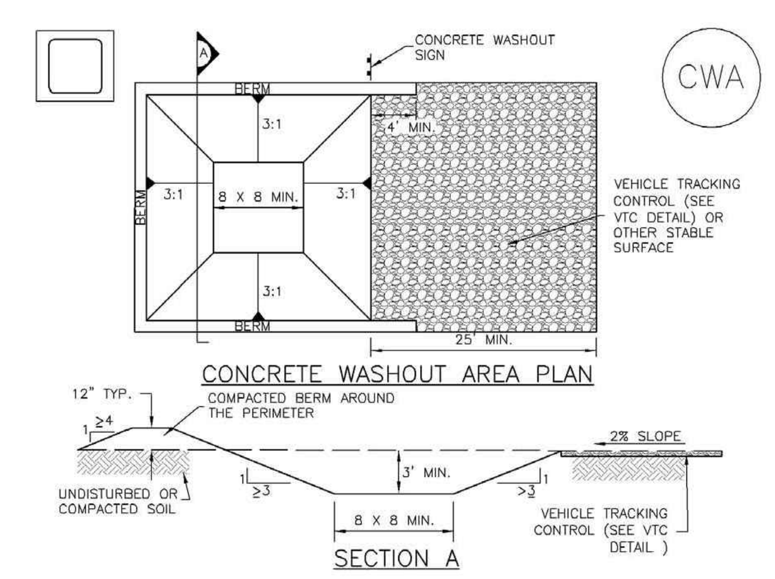
6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

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)

Concrete Washout Area (CWA) — MM-1



CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   -CWA INSTALLATION LOCATION.

2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.

3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.

4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.

5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.

6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.

7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.

8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

MM-1 — Concrete Washout Area (CWA)

CWA 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. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.

5. 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.

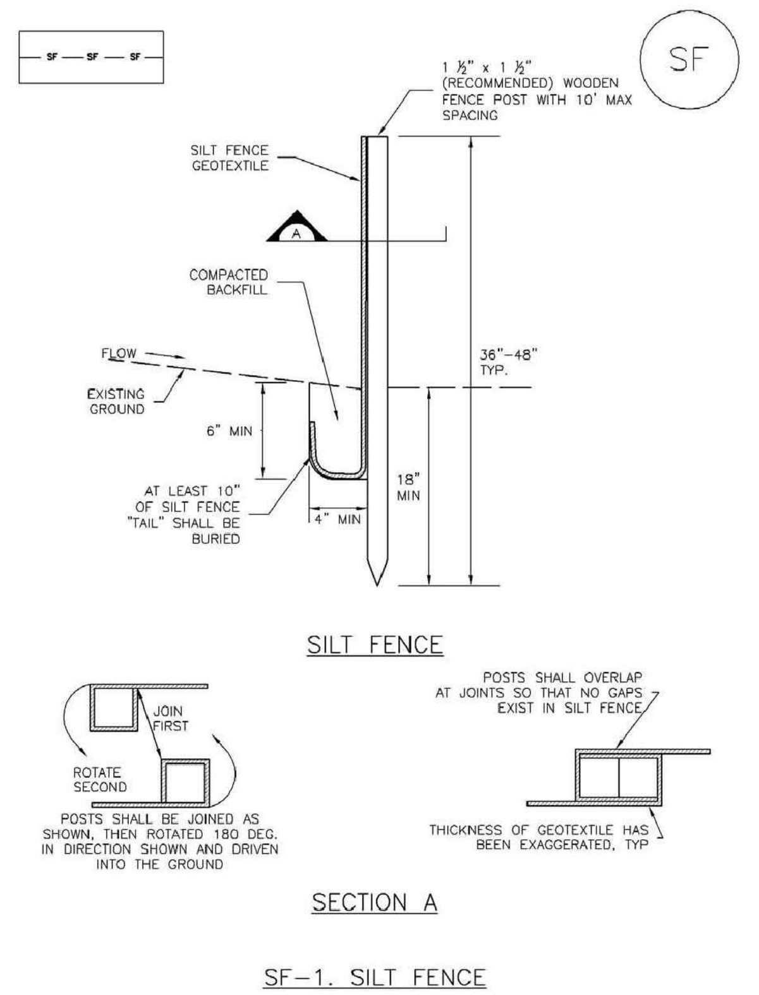
6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.

7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD).

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.

Silt Fence (SF) — SC-1



SF-1. SILT FENCE

SC-1 — Silt Fence (SF)

SILT FENCE INSTALLATION NOTES

1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.

2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.

3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.

4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.

5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.

6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').

7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE 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. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".

5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.

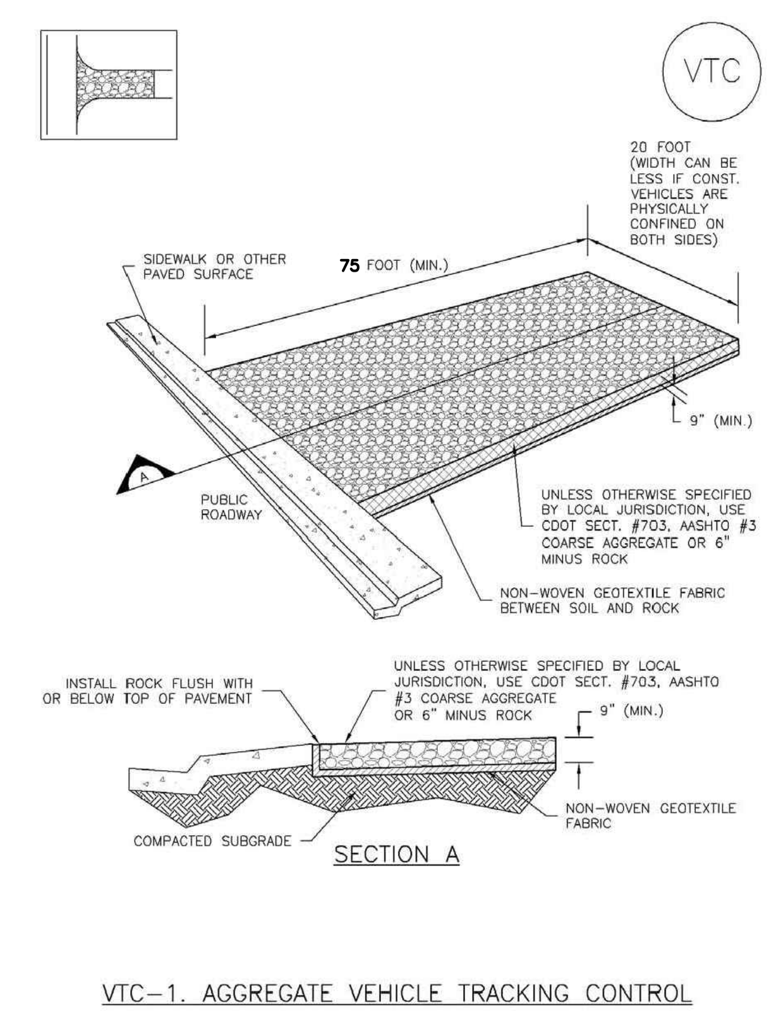
6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.

7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)

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.

Vehicle Tracking Control (VTC) — SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

SM-4 — Vehicle Tracking Control (VTC)

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   -LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
   -TYPE OF CONSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).

2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.

3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.

4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

STABILIZED CONSTRUCTION ENTRANCE/EXIT 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 TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.

5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

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 CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

TEMPORARY SEEDING NOTES

1. SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL, FERTILIZER OR LIME.
2. SOIL IS TO BE TILLED IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIALLY NEED TO BE LOOSENED.
3. SEEDBED DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1 AND 1 INCH FOR SLOPES STEEPER THAN 2:1.
4. ANNUAL GRASSES LISTED IN THE TABLE BELOW ARE TO BE USED FOR TEMPORARY SEEDING. SEED MIXES ARE NOT TO CONTAIN ANY NOXIOUS WEED SEEDS INCLUDING RUSSIAN OR CANADIAN THISTLE, KNAPWEED, PURPLE LOOSESTRIFE, EUROPEAN BINDWEED, JOHNSON GRASS, AND LEAFY SPURGE.
5. THE TABLE BELOW ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, AND PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.
6. SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE STEEP OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED.
7. ALL SEEDED AREAS ARE TO BE MULCHED.
8. IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY TO AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.

MULCHING NOTES

INSTALLATION REQUIREMENTS

1. MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED-AND SEED-FREE LONG STEMMED FIELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE, OR TRITICALE CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED FREE FORAGE CERTIFICATION PROGRAM.
2. HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FROM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL.
3. MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS PER ACRE.
4. MULCH IS TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL), USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES) OR WITH A TACKIFIER.
5. HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

MAINTENANCE REQUIREMENTS

6. REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED AREAS.
7. MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS IT HAS BEEN REMOVED, AND IF NECESSARY THE AREA SHOULD BE RESEEDED.

SEEDING PLAN

NATIVE SEEDING MIX

SOIL PREPARATION, FERTILIZER, SEEDING, MULCHING AND MULCH TACKIFIER WILL BE REQUIRED FOR DISTURBED AREAS EXCLUDING THE RIGHT-OF-WAYS.

THE FOLLOWING TYPES AND RATES SHALL BE USED:

COMMON NAME	SCIENTIFIC NAME	LBS PLS/ACRE
SAND BLUESTEM V. ELIDA	ANDROPOGON HALLII	2.0
WESTERN WHEATGRASS V. ARRIBA	PASCOPYRUM SMITHII	7.0
SIDEOATS GRAMA V. VAUGHN	BOUTELOUA CURTIPENDULA	4.0
GALLETA V. VIVA (CARYOPSIS)	HILARIA JAMESII	1.0
LITTLE BLUESTEM V. PASTURA	SCHIZACHYRIUM SCOPARIUM	3.0
PRARIE SANDREED V. GASHEN	CALAMOVILFA LONGIFOLIA	2.0
SWITCHGRASS V. NEBR 28	PANICUM VIRGATUM	1.0
BLANKETFLOWER	GAILLARDIA ARISTATA	1.0
PRARIE CONEFLOWER	RATIBIDA COLUMINIFERA	0.5
BLUE FLAX	LINUM LEWISII	1.0
OATS	AVENA SATIVA	3.0
WINTER WHEAT	TRITICUM AESTIVUM	3.0
TOTAL/POUNDS/ACRE		28.5

FERTILIZER	RATE PER ACRE
NITROGEN	27
PHOSPHORUS (P205)	69

SEEDING APPLICATION: DRILL SEED 0.25"-0.5" INTO TOPSOIL. AREA NOT ACCESSIBLE TO A DRILL SEEDER AND SLOPES STEEPER THAN 2:1 SHALL BE HAND BROADCAST AT DOUBLE THE ABOVE SEED RATE AND RAKED AT 1/4 TO 1/2 INTO THE TOPSOIL.

MULCHING APPLICATION: 1 1/2 TONS CERTIFIED WEED FREE NATIVE HAY PER ACRE MECHANICALLY CRIMED IN TOPSOIL IN COMBINATION WITH AN ORGANIC MULCH TACKIFIER.

SF2421

PREPARED BY:

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CLIENT:

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GRADING & EROSION CONTROL PLANS FOR:
LATIGO TRAILS FILING NO. 10
EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY: KGV
DRAWN BY: KGV
CHECKED BY: TDM
FILE NAME: 21820-01DT3

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

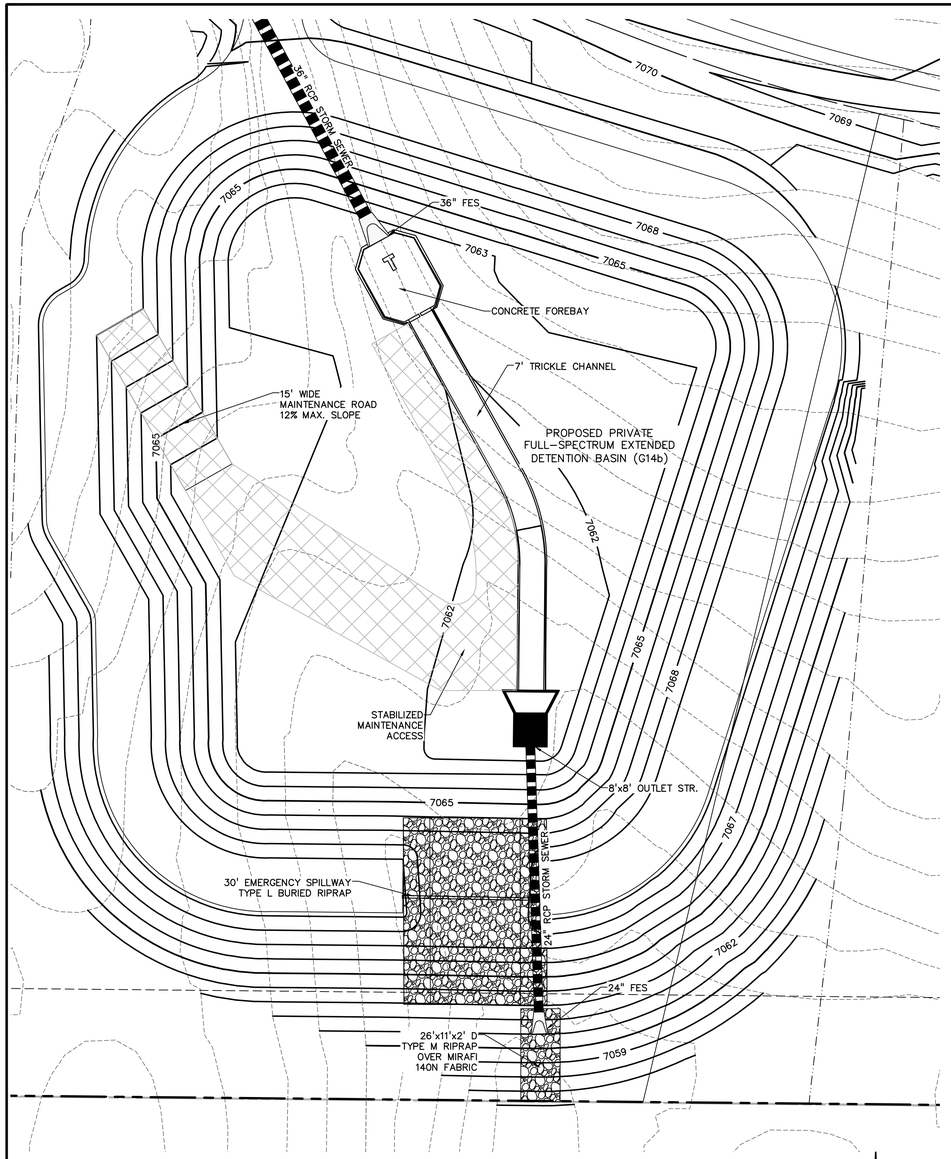
DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

GRADING & EROSION CONTROL DETAILS

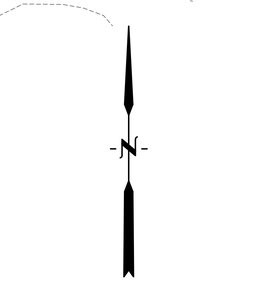
PROJECT NO. 21820-01CSCV

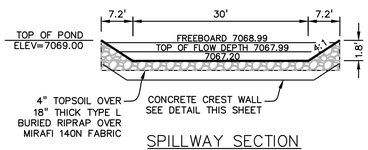
DRAWING NO.

DT3

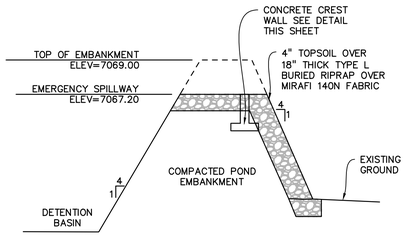


DETENTION FACILITY POND G14B
SCALE: 1"=20'





SPILLWAY SECTION
NO SCALE



SPILLWAY SECTION
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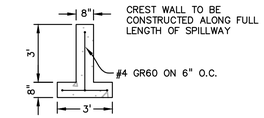
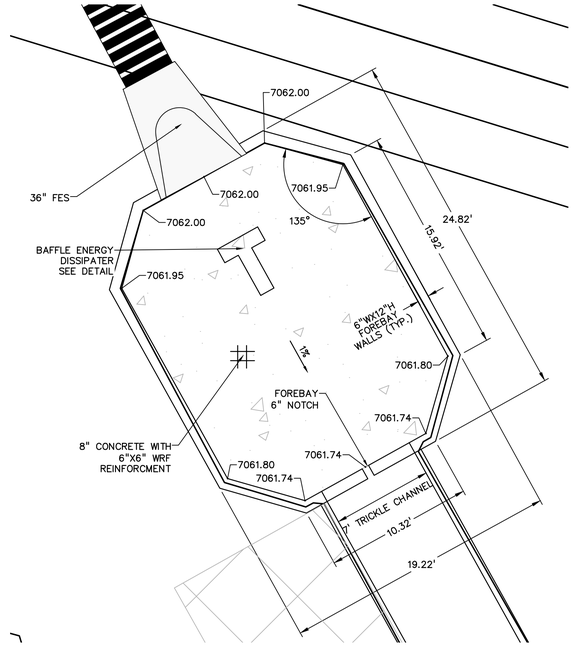
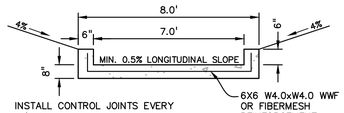


CREST WALL SECTION
NO SCALE



POND G14B FOREBAY
SCALE: 1"=5'



CONCRETE TRICKLE CHANNEL SECTION
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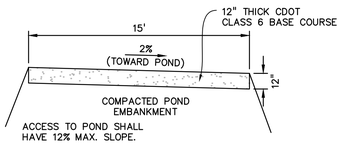
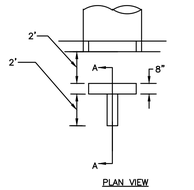
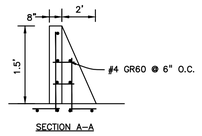
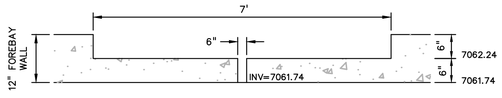


MAINTENANCE ROAD SECTION
NO SCALE





FOREBAY BAFFLE ENERGY DISSIPATORS
NO SCALE



FOREBAY NOTCH
NO SCALE

811 Know what's **below.** **Call** before you dig.
CALL 3-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

SF2421

PREPARED BY:

DREXEL, BARRELL & CO.
Engineers • Surveyors
101 SAHWATCH ST. #100
COLORADO SPGS, COLORADO 80903
CONTACT: TIM D. McCONNELL, P.E.
(719)260-0887
COLORADO SPRINGS • LAFAYETTE

CLIENT:

FALCON LATIGO, LLC
5350 S. ROSLYN ST, STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	KGV
FILE NAME:	21820-01PD

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

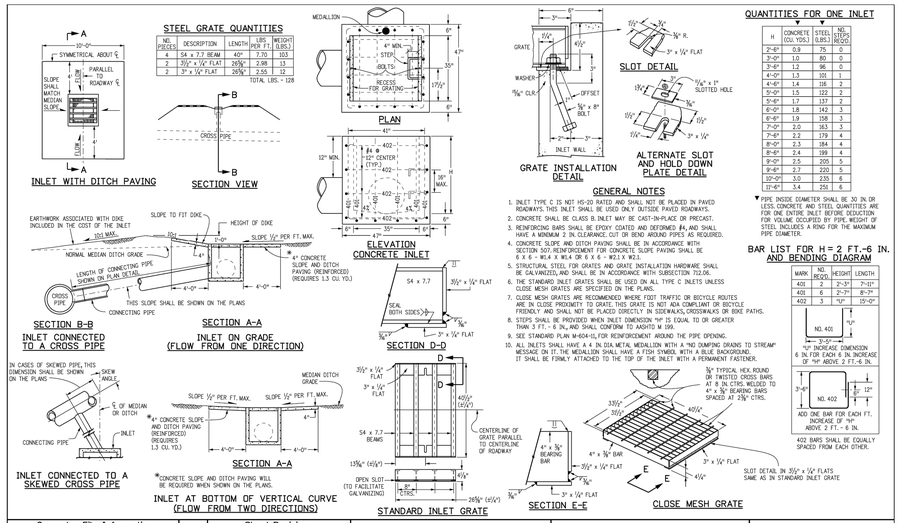
DRAWING SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: N/A

POND G14b DETAILS

PROJECT NO. 21820-01CSCV

DRAWING NO.

PD1



Computer File Information		Sheet Revisions	
Creation Date: 07/04/12	Initials: DD	Date:	Comments
Last Modification Date: 07/04/12	Initials: LTA		
Full Path: www.coloradodot.info/business/designsupport			
Drawing File Name: 604010010.dgn			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English			

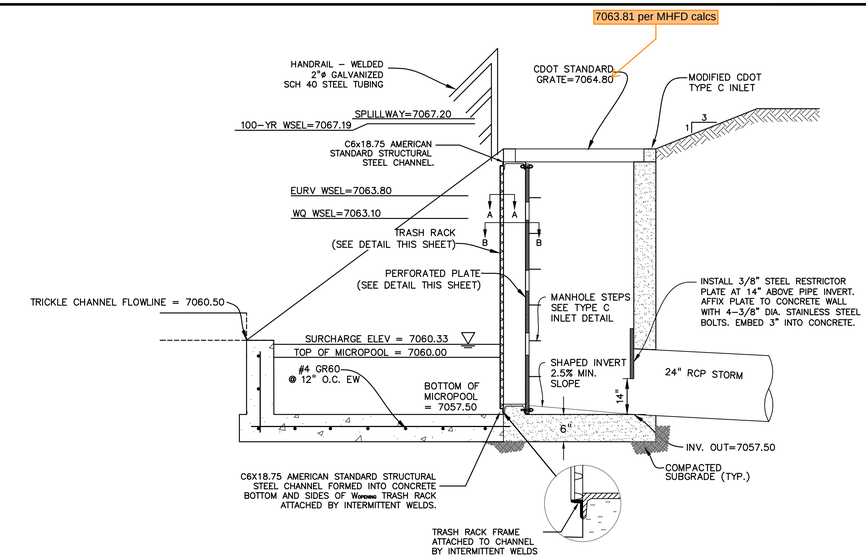
Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820
Project Development Branch DD/LTA

INLET, TYPE C

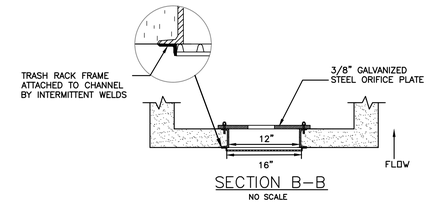
Issued By: Project Development Branch July 4, 2012

STANDARD PLAN NO. M-604-10

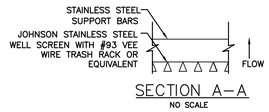
Sheet No. 1 of 1



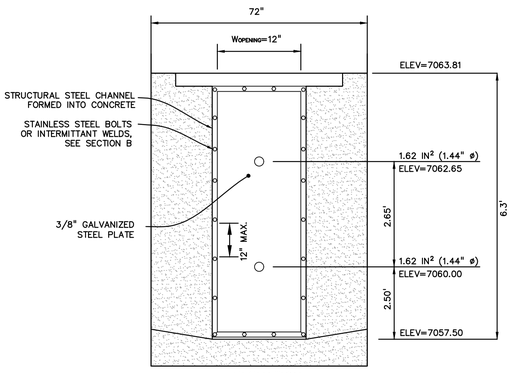
POND OUTLET PROFILE SECTION C–C
NO SCALE



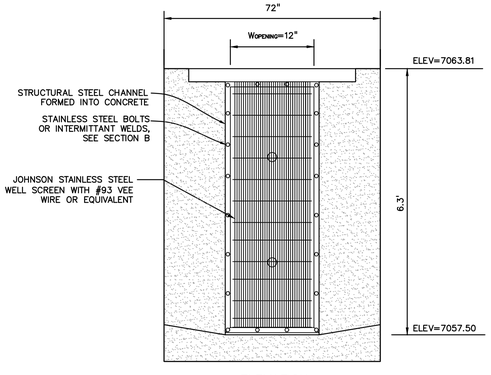
SECTION B–B
NO SCALE



SECTION A–A
NO SCALE



ELEVATION
PERFORATED PLATE DETAIL
NO SCALE



ELEVATION
TRASH RACK
NO SCALE

PERFORATED PLATE NOTES:

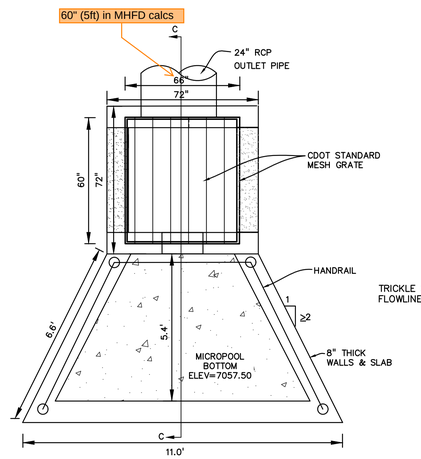
1. PROVIDE GASKET MATERIAL OR GROUT BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE @ 12" MAX. ON CENTER. ORIFICE PLATE IS TO BE REMOVABLE.
3. ALL STEEL SURFACES ARE TO BE COATED WITH ZRC COLD GALVANIZING COMPOUND.

WQCV TRASH RACKS:

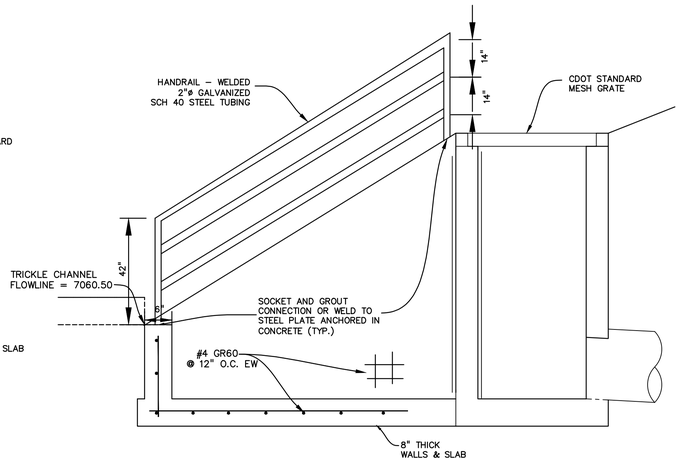
1. TRASH RACKS SHALL BE STAINLESS STEEL OR ALUMINUM AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.

GENERAL NOTES:

1. ALL EXTERIOR STEEL SHALL BE EITHER STAINLESS OR HOT DIPPED GALVANIZED



MICROPOOL PLAN
NO SCALE



SECTION C–C
NO SCALE

SF2421

PREPARED BY:

DREXEL, BARRELL & CO.
Engineers • Surveyors
101 SAHWATCH ST. #100
COLORADO SPGS, COLORADO 80903
CONTACT: TIM D. McCONNELL, P.E.
(719)260-0887
COLORADO SPRINGS • LAFAYETTE

CLIENT:

FALCON LATIGO, LLC
5350 S. ROSLYN ST. STE #400
ENGLEWOOD, CO 80111–2125
(303) 694–0862

GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY
FALCON, COLORADO

GRADING

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	21820–01OUT

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

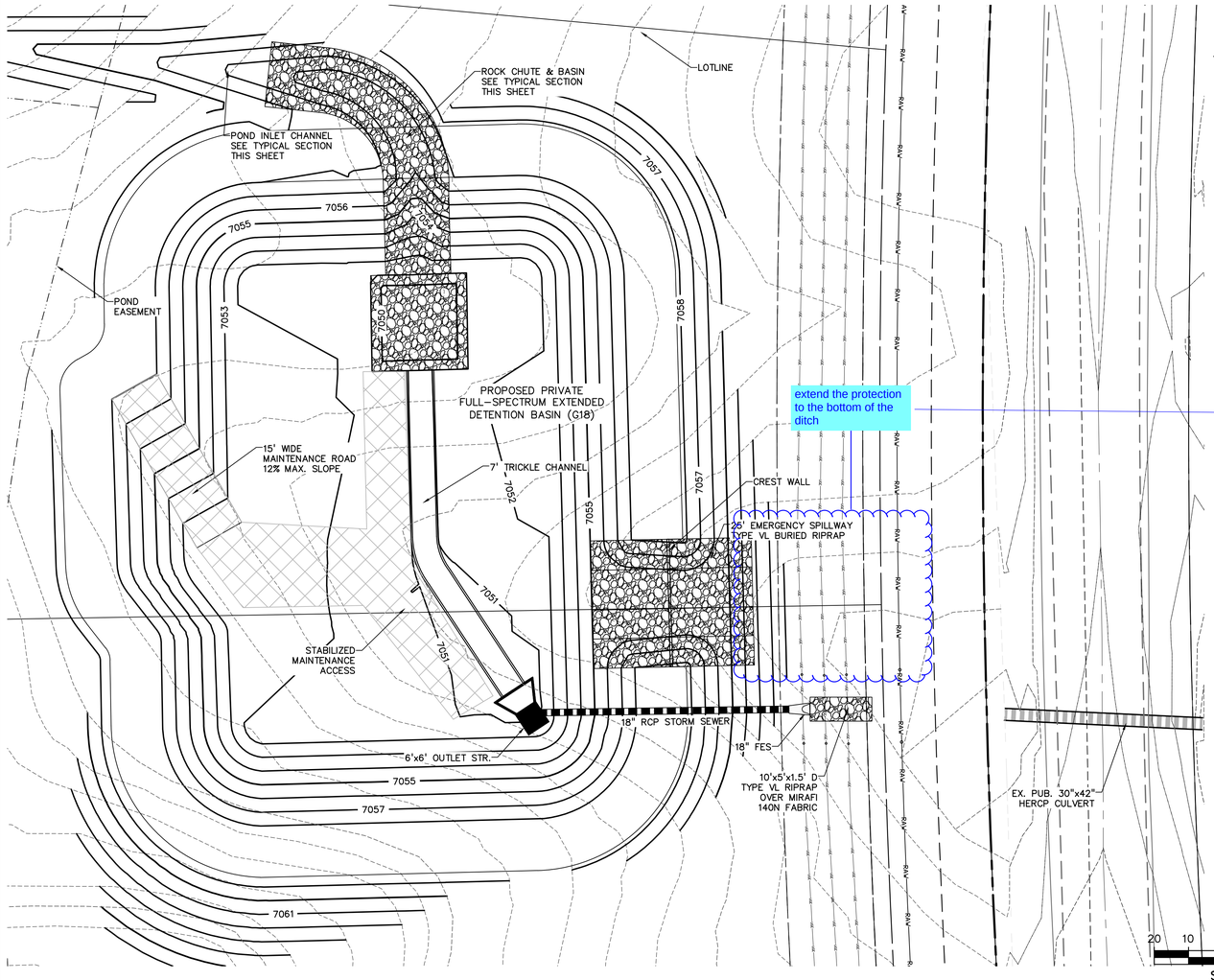
POND G14b
OUTLET
STRUCTURE

PROJECT NO. 21820–01CSCV

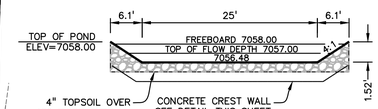
DRAWING NO.

OUT1

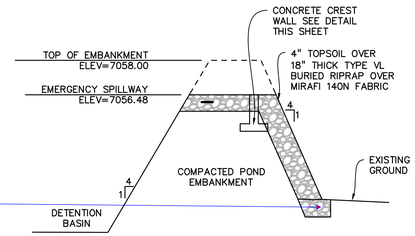
SHEET:14 OF 18



DETENTION FACILITY POND G18
SCALE: 1"=20'



SPILLWAY SECTION
NO SCALE



SPILLWAY SECTION
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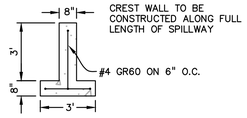
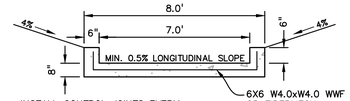
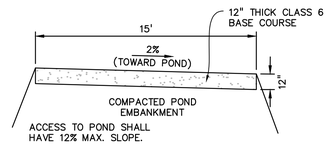


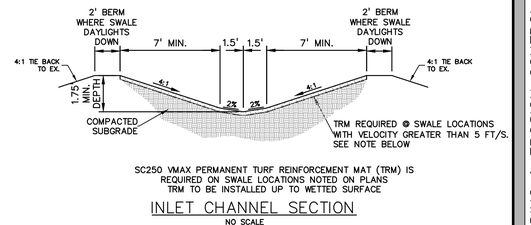
CREST WALL SECTION
NO SCALE



CONCRETE TRICKLE CHANNEL SECTION
NO SCALE

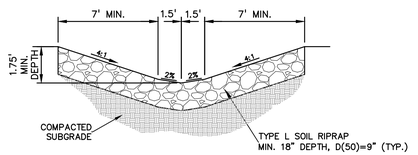


MAINTENANCE ROAD SECTION
NO SCALE

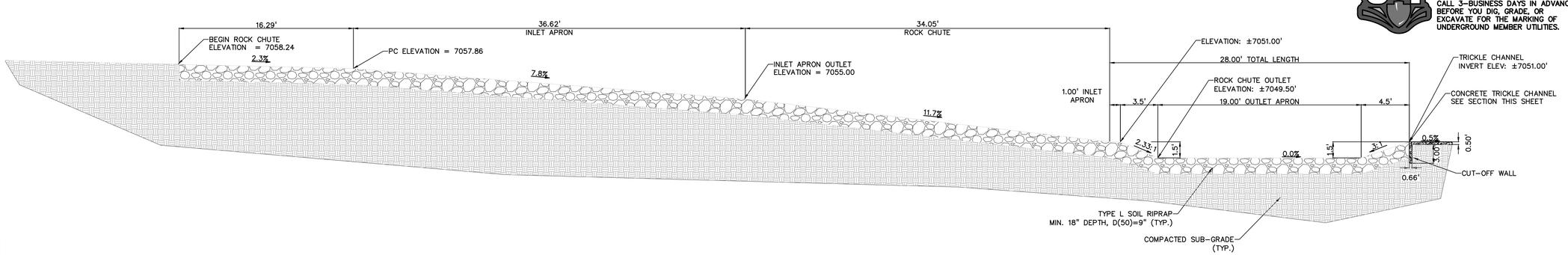


SC250 VMAX PERMANENT TURF REINFORCEMENT MAT (TRM) IS REQUIRED ON SWALE LOCATIONS NOTED ON PLANS
TRM TO BE INSTALLED UP TO WETTED SURFACE

INLET CHANNEL SECTION
NO SCALE



ROCK CHUTE & BASIN SECTION
NO SCALE



ROCK CHUTE & LOW TAIL-WATER BASIN
NO SCALE

811 Know what's **below.** **Call** before you dig.
CALL 3-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

SF2421

PREPARED BY:
DREXEL, BARRELL & CO.
Engineers • Surveyors
101 SAHWATCH ST. #100
COLORADO SPGS, COLORADO 80903
CONTACT: TIM D. McCONNELL, P.E.
(719)260-0887
COLORADO SPRINGS • LAFAYETTE

CLIENT:
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5350 S. ROSLYN ST. STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:
LATIGO TRAILS FILING NO. 10
EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

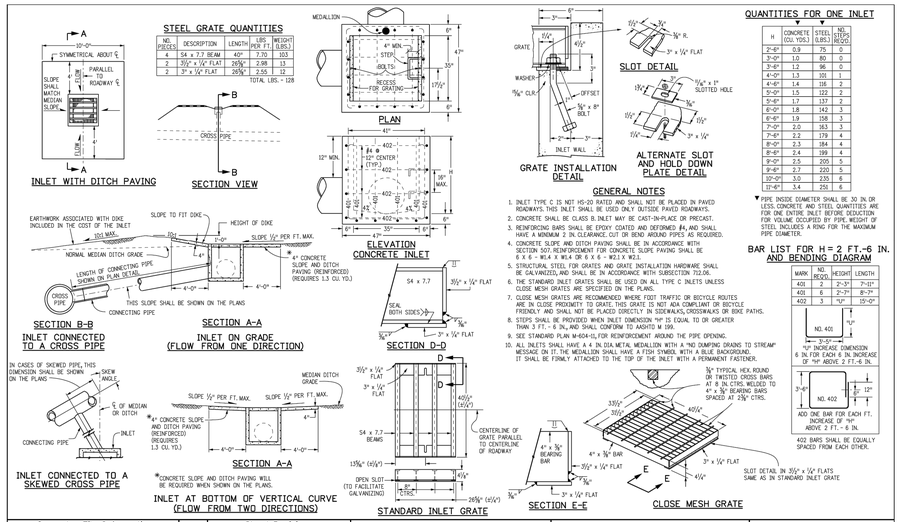
DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	KGV
FILE NAME:	21820-01PD

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: N/A

POND G18 DETAILS

PROJECT NO. 21820-01CSCV
DRAWING NO.
PD2
SHEET: 15 OF 18



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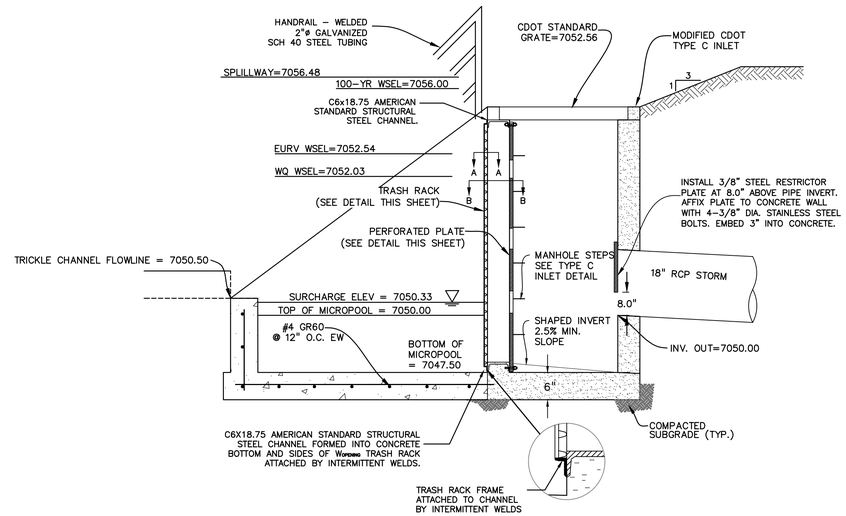
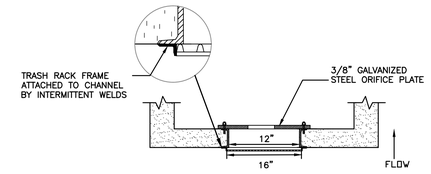
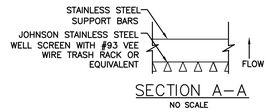
Creation Date: 07/04/12 Initials: DD		Date:	Comments	4201 East Arkansas Avenue, Denver, Colorado 80222	INLET, TYPE C	M-604-10
Last Modification Date: 07/04/12 Initials: LTA				Phone: (303) 757-9083 Fax: (303) 757-9820		
Full Path: www.coloradodot.info/business/designsupport				Project Development Branch DD/LTA	Issued By: Project Development Branch July 4, 2012	Sheet No. 1 of 1
Drawing File Name: 604010010.dgn						
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English						



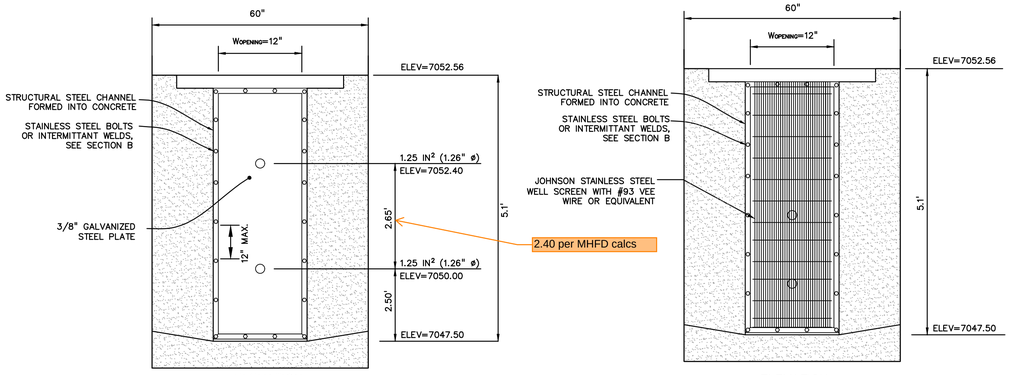
POND OUTLET PROFILE SECTION C–C
NO SCALE



SECTION B–B
NO SCALE

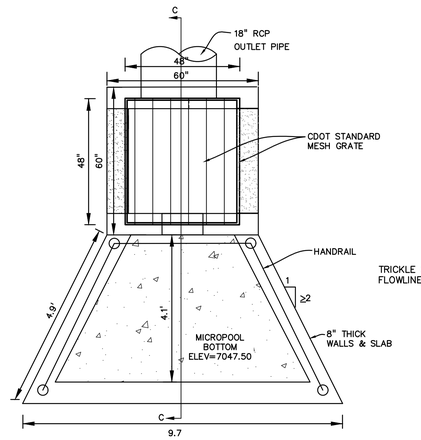


SECTION A–A
NO SCALE

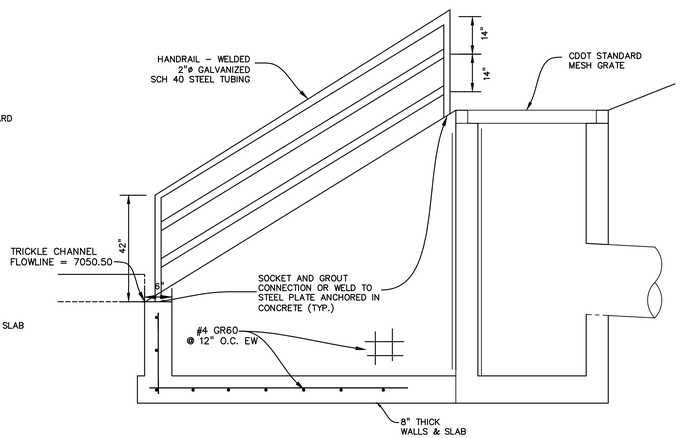


ELEVATION
PERFORATED PLATE DETAIL
NO SCALE

ELEVATION
TRASH RACK
NO SCALE



MICROPOOL PLAN
NO SCALE



SECTION C–C
NO SCALE

PERFORATED PLATE NOTES:

1. PROVIDE GASKET MATERIAL OR GROUT BETWEEN THE ORIFICE PLATE AND CONCRETE.
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SF2421

PREPARED BY:

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FALCON LATIGO, LLC
5350 S. ROSLYN ST. STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY
FALCON, COLORADO

GRADING

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	21820-01OUT

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

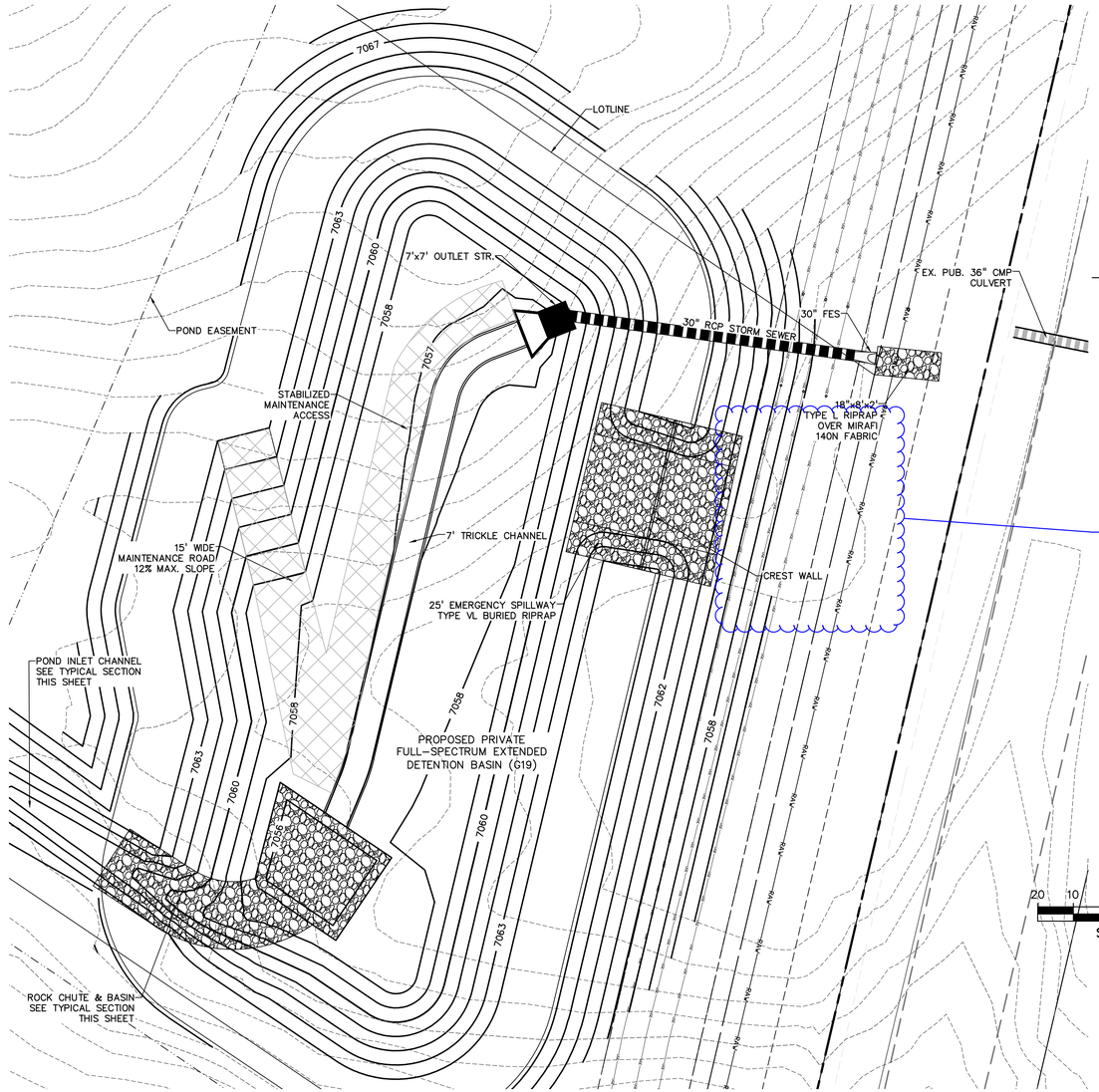
POND G18
OUTLET
STRUCTURE

PROJECT NO. 21820-01CSCV

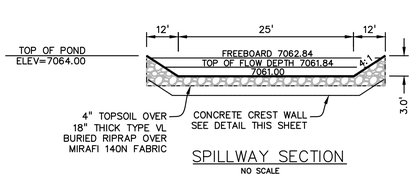
DRAWING NO.

OUT2

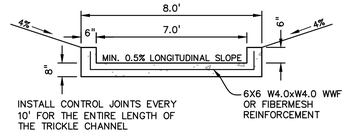
SHEET: 16 OF 18



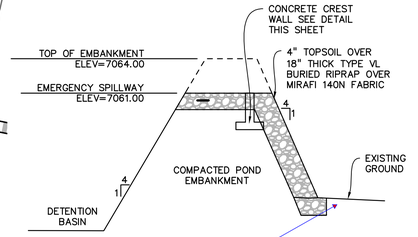
DETENTION FACILITY POND G19
SCALE: 1"=20'



SPILLWAY SECTION
NO SCALE

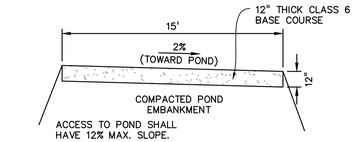


CONCRETE TRICKLE CHANNEL SECTION
NO SCALE

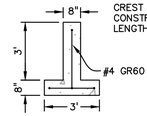


SPILLWAY SECTION
NO SCALE

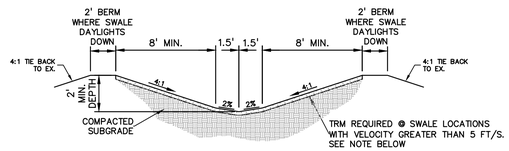
extend protection to the bottom of the roadside ditch



MAINTENANCE ROAD SECTION
NO SCALE

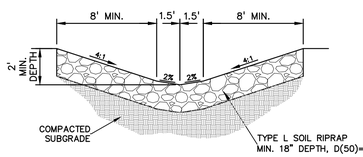


CREST WALL SECTION
NO SCALE

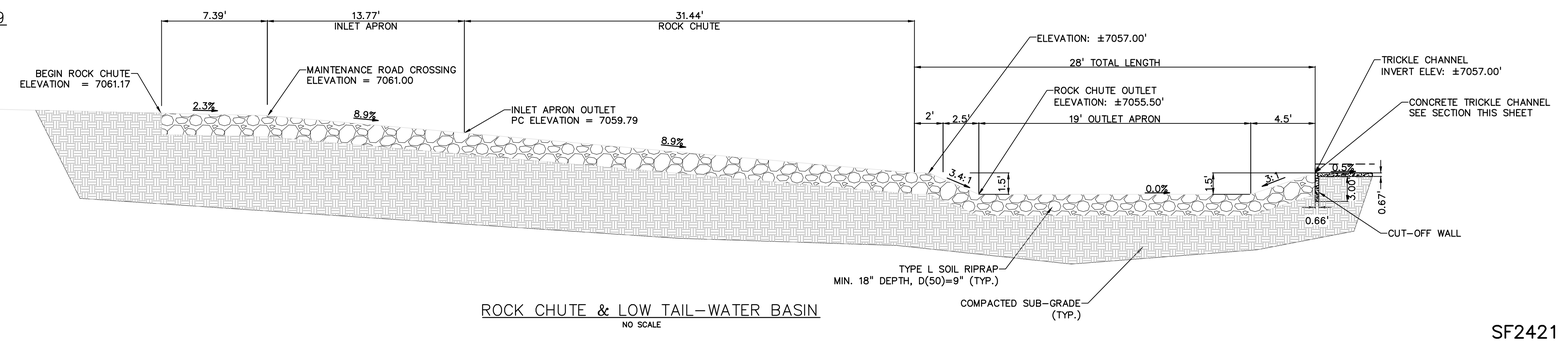


SC250 VMAX PERMANENT TURF REINFORCEMENT MAT (TRM) IS REQUIRED ON SWALE LOCATIONS NOTED ON PLANS
TRM TO BE INSTALLED UP TO WETTED SURFACE

INLET CHANNEL SECTION
NO SCALE



ROCK CHUTE & BASIN SECTION
NO SCALE



ROCK CHUTE & LOW TAIL-WATER BASIN
NO SCALE

811 Know what's **below.** **Call** before you dig.
CALL 3-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

SF2421

PREPARED BY:

DREXEL, BARRELL & CO.
Engineers • Surveyors
101 SAHWATCH ST. #100
COLORADO SPGS, COLORADO 80903
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CLIENT:

FALCON LATIGO, LLC
5350 S. ROSLYN ST, STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	KGV
FILE NAME:	21820-01PD

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: N/A

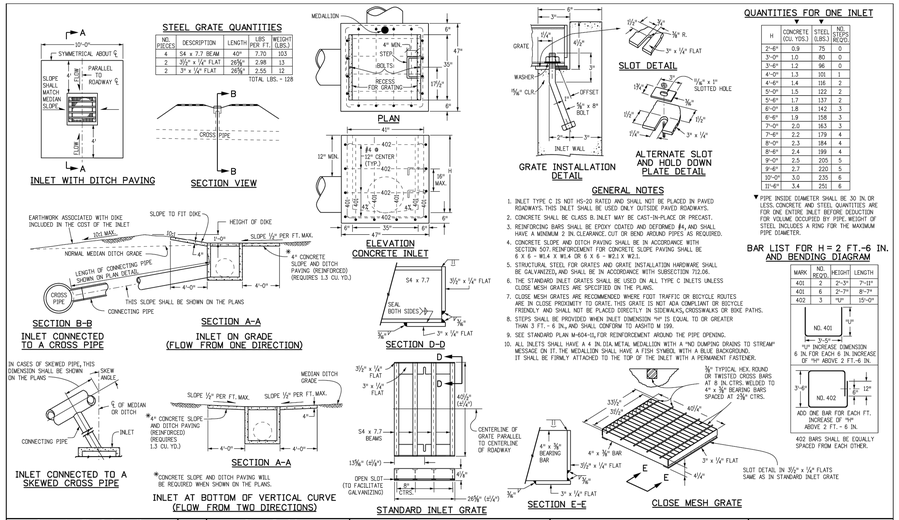
POND G19 DETAILS

PROJECT NO. 21820-01CSCV

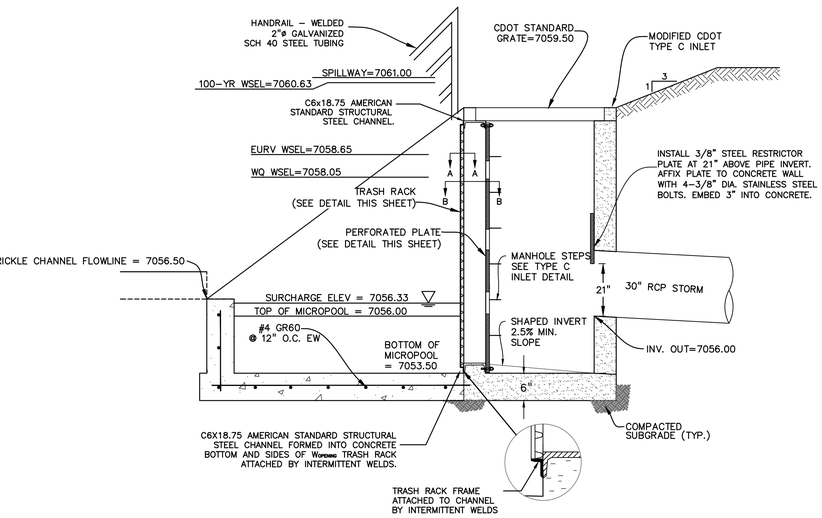
DRAWING NO.

PD3

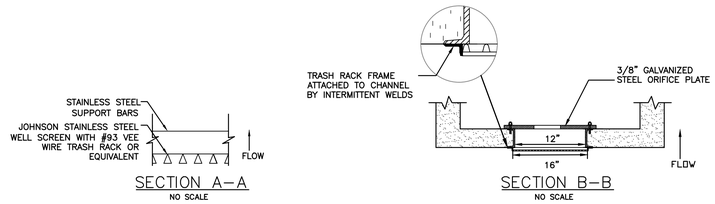
SHEET:17 OF 18



Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.
Creation Date: 07/04/12 Initials: DD		Date:	Comments	4201 East Arkansas Avenue, Denver, Colorado 80222	INLET, TYPE C	M-604-10
Last Modification Date: 07/04/12 Initials: LTA	CE&C			Phone: (303) 757-9083 Fax: (303) 757-9820		
Full Path: www.coloradodot.info/business/designsupport	CE&C			Project Development Branch DD/LTA	Issued By: Project Development Branch July 4, 2012	Sheet No. 1 of 1
Drawing File Names: 604010010.dgn	CE&C					
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	CE&C					

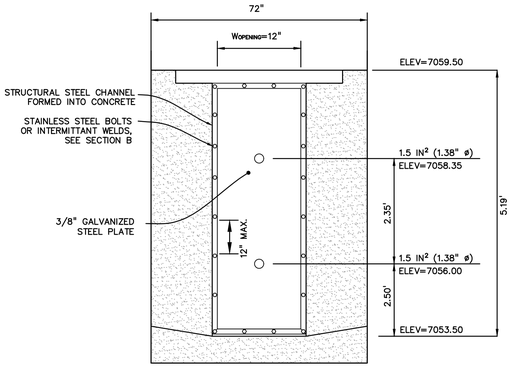


POND OUTLET PROFILE SECTION C–C
NO SCALE

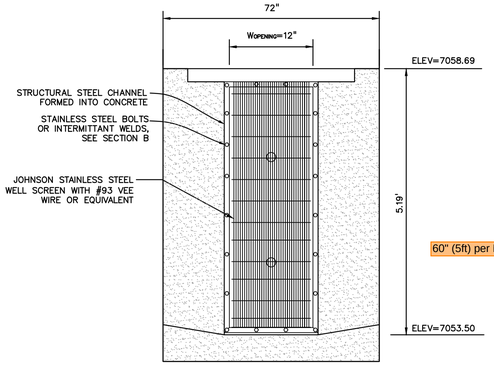


SECTION A–A
NO SCALE

SECTION B–B
NO SCALE

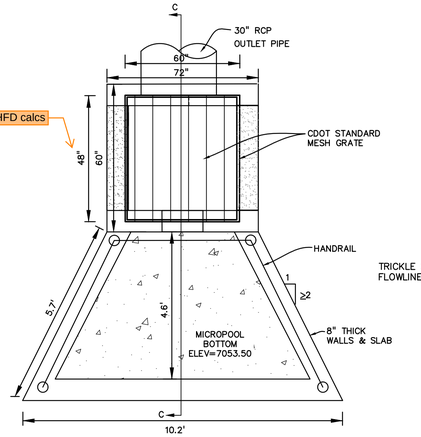


ELEVATION
PERFORATED PLATE DETAIL
NO SCALE

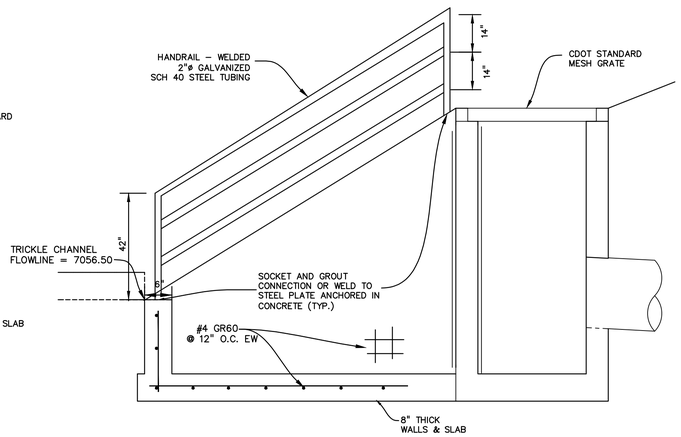


ELEVATION
TRASH RACK
NO SCALE

60" (5ft) per MHFD calcs



MICROPOOL PLAN
NO SCALE



SECTION C–C
NO SCALE

PERFORATED PLATE NOTES:

1. PROVIDE GASKET MATERIAL OR GROUT BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE @ 12" MAX. ON CENTER. ORIFICE PLATE IS TO BE REMOVABLE.
3. ALL STEEL SURFACES ARE TO BE COATED WITH ZRC COLD GALVANIZING COMPOUND.

WQCV TRASH RACKS:

1. TRASH RACKS SHALL BE STAINLESS STEEL OR ALUMINUM AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.

GENERAL NOTES:

1. ALL EXTERIOR STEEL SHALL BE EITHER STAINLESS OR HOT DIPPED GALVANIZED

SF2421

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GRADING & EROSION CONTROL PLANS FOR:

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EL PASO COUNTY
FALCON, COLORADO

GRADING

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	21820–01OUT

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXELL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

POND G19
OUTLET
STRUCTURE

PROJECT NO. 21820–01CSCV

DRAWING NO.

OUT3

SHEET: 18 OF 18