

BASIC GRADING, EROSION AND STORMWATER QUALITY REQUIREMENTS AND GENERAL PROHIBITIONS:

- *INFORMATION TAKEN FROM THE EL PASO COUNTY DRAINAGE CRITERIA MANUAL VOLUME 2, HEREIN REFERRED TO AS THE "MANUAL."
- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS.
 - CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM FACILITIES.
 - BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY BE REQUIRED BY COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES (E.G., ESTIMATED TIME OF EXPOSURE, SEASON OF THE YEAR, ETC.).
 - VEHICLE TRACKING OF SOILS OFF-SITE SHALL BE MINIMIZED.
 - ALL WASTES COMPOSED OF BUILDING MATERIALS MUST BE REMOVED FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO BUILDING MATERIAL, WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
 - NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE COUNTY ENGINEER. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
 - BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
 - ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMP'S IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE MANUAL AND IN ACCORDANCE WITH THE EROSION AND STORMWATER QUALITY CONTROL PLAN APPROVED BY THE COUNTY OF EL PASO, IF REQUIRED.
 - ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMP'S AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS AND THE MANUAL AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION. THE INSTALLATION OF THE FIRST LEVEL OF TEMPORARY EROSION CONTROL FACILITIES AND BMP'S SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY EARTH DISTURBANCE OPERATIONS TAKING PLACE.
 - ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.
 - ALL EARTH DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED IN SUCH A MANNER SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.
 - ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
 - SUSPENDED SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE MINIMIZED IN RUNOFF WATER BEFORE IT LEAVES THE SITE OF THE EARTH DISTURBANCE.
 - ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
 - TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO THE STANDARDS AND SPECIFICATIONS PRESCRIBED IN THE MANUAL AND IN ACCORDANCE WITH THE PERMANENT EROSION CONTROL FEATURES SHOWN ON THE EROSION AND STORMWATER QUALITY CONTROL PLANS APPROVED BY THE COUNTY OF EL PASO, IF REQUIRED.
 - SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (21) CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMP'S SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.
 - NO PERSON SHALL CAUSE, PERMIT, OR CONTRIBUTE TO THE DISCHARGE INTO THE MUNICIPAL SEWER STORM SEWER POLLUTANTS THAT COULD CAUSE THE COUNTY OF EL PASO TO BE IN VIOLATION OF ITS COLORADO DISCHARGE PERMIT SYSTEM MUNICIPAL STORMWATER DISCHARGE PERMIT.
 - THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
 - NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER, INCLUDING THE TEMPORARY OR PERMANENT RAMPING WITH MATERIALS FOR VEHICLE ACCESS.
 - INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), REGULATIONS PROMULGATED, CERTIFICATIONS OR PERMITS ISSUED, IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE MANUAL. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
 - THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM 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. MATERIALS SHALL NOT BE STORED IN A LOCATION WHERE THEY MAY BE CARRIED BY STORMWATER RUNOFF INTO A STATE WATER AT ANY TIME.
 - SPILL PREVENTION AND CONTAINMENT MEASURES SHALL BE USED AT STORAGE, AND EQUIPMENT FUELING AND SERVICING AREAS TO PREVENT THE POLLUTION OF ANY STATE WATERS, INCLUDING WETLANDS. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, OR CONTAINED UNTIL APPROPRIATE CLEANUP METHODS CAN BE EMPLOYED. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE FOLLOWED, ALONG WITH PROPER DISPOSAL METHODS.

EROSION PROTECTION & REVEGETATION REQUIREMENTS
*PER U.S.D.A. SOIL CONSERVATION SERVICE GUIDELINES:

1. PRACTICE NO. & NAME: 342 - CRITICAL AREA TREATMENT RANGE SITE, SANDY FOOTHILLS

2. PLANNED SEEDING PREP:
A. METHOD: SEEDING OPERATION
B. DATES OCT. 15 - MAY 31
C. CLEAN TILLED: XX
D. FIRM SEEDBED: XX
E. STUBBLE COVER: XX
F. INTERSEED: XX
G. OTHER: XX

3. SEEDING GUIDELINES:
1. SEED PREPARATION: THE SEEDER SHOULD BE WELL-SETTLED AND FIRM, BUT FRAGILE ENOUGH THAT THE SEED CAN BE PLACED AT THE SPECIFIED DEPTHS. COMPETITIVE STANDS OF WEEDS THAT ARE PRESENT BEFORE SEEDING MUST BE CONTROLLED BY PLANTING BILGE OR BY APPLICATION OF HERBICIDES. SOILS THAT HAVE BEEN OVER-COMPACTED BY TRAFFIC OR EQUIPMENT, ESPECIALLY WHEN WET, SHOULD BE TILLED TO BREAK UP ROOTING-RESTRICTIVE LAYERS, THEN HARROWED, ROLLER OR PACKED TO PREPARE THE REQUIRED FIRM SEEDBED.
2. FERTILIZER: FERTILIZER SHOULD BE APPLIED AT A RATE OF 50 POUNDS OF AVAILABLE NITROGEN PER ACRE AND 40 POUNDS OF AVAILABLE PHOSPHATE PER ACRE. THE TIME OF APPLICATION SHOULD BE IMMEDIATELY PRIOR TO SEEDING, AT THE TIME OF SEEDING, OR IMMEDIATELY FOLLOWING SEEDING, DEPENDING ON THE KIND OF FERTILIZER AND TYPE OF EQUIPMENT USED.
3. SEEDING: SEED SHOULD BE PLANTED WITH A GRASS DRILL ON ALL SLOPES OF 3% (3:1) OR FLATTER. SEED MAY BE BROADCAST BY HAND, BY MECHANICAL SPREADER, OR BY HYDRAULIC EQUIPMENT ON AREAS THAT ARE SHALLO, TOO STEEP, OR NOT ACCESSIBLE FOR SEED DRILL OPERATIONS. SEED PLANTED WITH A DRILL SHOULD BE COVERED WITH SOIL TO A DEPTH OF 1/4 TO 3/4 INCH. SEED PLANTED BY THE BROADCAST METHOD SHALL BE INCORPORATED INTO THE SOIL SURFACE, NOT TO EXCEED A DEPTH OF 3/4 INCH, BY RAKING, HARROWING, OR OTHER PROVEN METHOD. THE TIME OF SEEDING IS FROM OCTOBER 15th - MAY 31st. SEED PLANTED IN THE LATE FALL WILL REMAIN DORMANT UNTIL SPRING, WHEN IT WILL GERMINATE.
4. MULCHING: SEEDING AREAS SHOULD BE MULCHED TO CONSERVE MOISTURE, PREVENT SURFACE COMPACTION OR CRUSTING, REDUCE RAINFALL AND EROSION, CONTROL INSECTS, AND HELP ESTABLISH PLANT COVER. NATIVE HAY OR STRAW SHOULD BE APPLIED AT A RATE OF 4000 POUNDS PER ACRE AND CRIMPED INTO THE GROUND. ON SLOPES GREATER THAN 3:1, AN AGROBANY BLANKET SHOULD BE USED.
5. SUPPLEMENTAL WATER: IN LOW RAINFALL AREAS WHERE WATER IS AVAILABLE AND WHERE RAPID ESTABLISHMENT IS NEEDED, IRRIGATION OF NEW SEEDING SHOULD BE PERFORMED DURING THE FIRST GROWING SEASON. WATER SHOULD BE APPLIED AT APPROXIMATELY ONE WEEK INTERVALS, AT A RATE OF 3/4 TO 1 INCH PER APPLICATION, WHEN RAINFALL IS DEFICIENT FOR PLANT DEVELOPMENT.

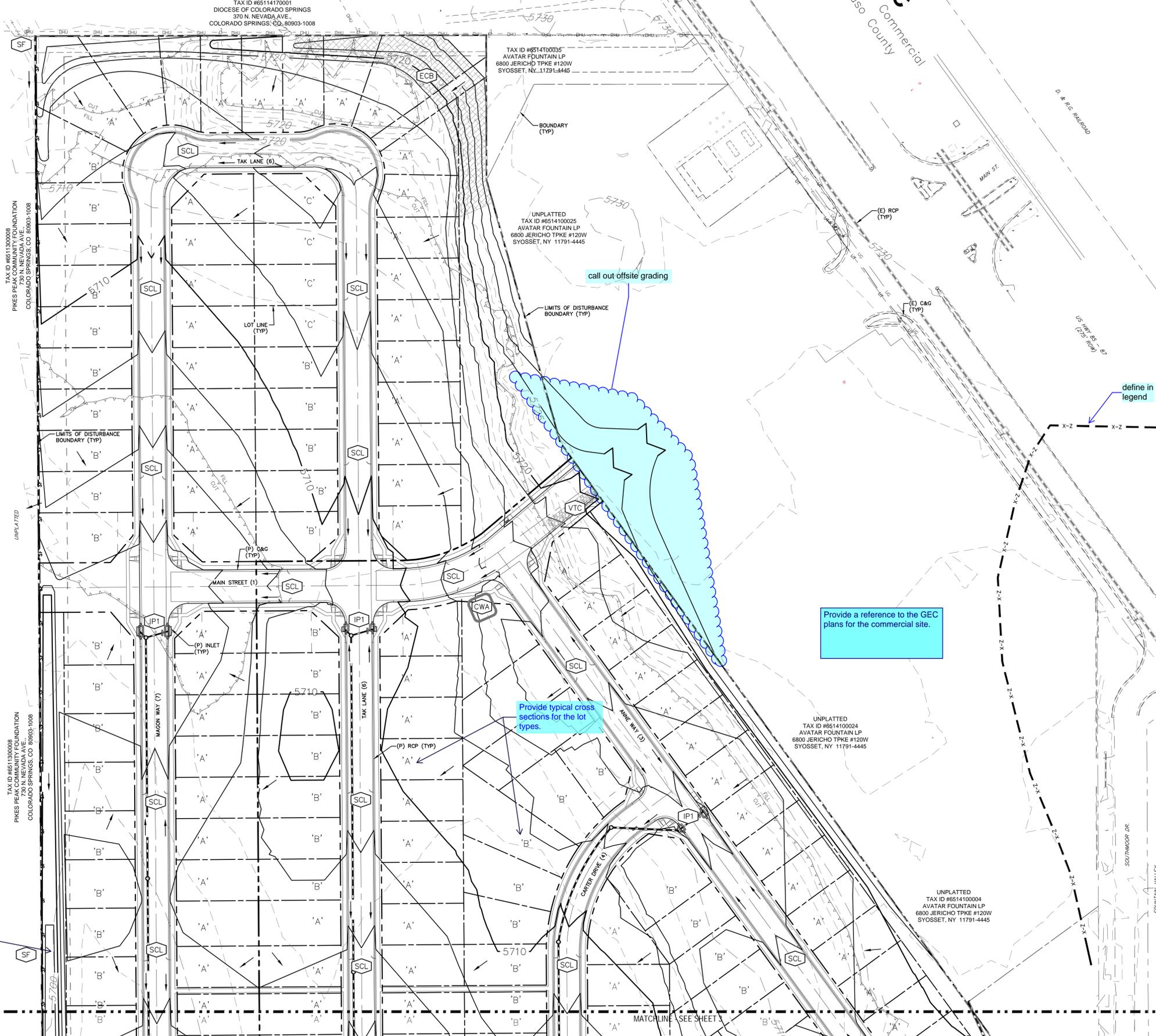
WEED CONTROL: N/A
MOWING: XX
CHEMICAL: XX
DATES: XX
SEEDING FOR SPECIFIC RECOMMENDATIONS AT HERBICIDE APPLICATION TIME

MULCH:
KIND: LONG - STEM NATIVE HAY
AMOUNT: 4,000 POUNDS/ACRE
HOW-APPLIED: N/A
HOW-ANCHORED: CRIMPED
ANCHORAGE DEPTH: 4"

SEED VARIETY	SPECIES	REQUIRED PLS. RATES PER ACRES (10000)
GOSHEN	PRAIRIE SANDBREEDE	6.5
VAUGHN	SIDEDATA GRAMMA	9.0
LOVINGTIN	BLUE GRAMMA	3.0
BLACKWELL	SWITCH GRASS	4.5
PASTURA	LITTLE BLUESTEM	7.0

(2) PLS. SEEDING RATE PER SPECIES/ACRE (3) x (2)	(4) TOTAL PLS. LBS/ SPECIES PLANNED (3) x (4)
15	43.6
25	98.1
15	19.6
20	39.2
25	76.3

- BMP LEGEND**
- SILT FENCE: SF
 - VEHICLE TRACKING CONTROL: VTC
 - CONCRETE WASHOUT AREA: CWA
 - EROSION CONTROL BLANKET: ECB
 - SEDIMENT CONTROL LOG: SCL
 - INLET PROTECTION (BLOCK & ROCK SOCK): IP1
 - STABILIZED STAGING AREA: SSA
 - STOCKPILE PROTECTION: SP1



NOTES:
1. EXISTING VEGETATION ON THIS SITE PRIMARILY CONSIST OF GRASSES AND WEEDS.

- LEGEND**
- EXISTING (E)
 - PROPOSED (P)
 - CURB AND GUTTER (C&G)
 - BOUNDARY
 - RIGHT-OF-WAY
 - LOT LINE
 - (E) CONTOUR, INDEX 5700
 - (E) CONTOUR
 - (P) CONTOUR, INDEX 5700
 - (P) CONTOUR
 - (P) STORM SEWER
 - (E) STORM SEWER
 - CUT/FILL LINE

REV.	DESCRIPTION	DATE

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PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICO TURNPIKE SUITE 120W #204 SYOSSET, NY 11791

PREPARED BY MY DIRECT SUPERVISION FOR AND BEHALF OF CATAMOUNT ENGINEERING.
DAVID L. MIJARES, COLORADO PE #40510 DATE

CATAMOUNT ENGINEERING
311 W. HENRIETTA AVE. WOODLAND PARK, CO 80866 (719) 626-2124

RIVERBEND CROSSING FILING NOS 1 & 2 GRADING & EROSION CONTROL PLAN

DESIGNED BY: **DLM** DRAWN BY: **MGP**
SCALE: 1" = 60' DATE: 02/10/20
JOB NUMBER: **17-114** SHEET: **2 OF 4**

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EROSION PROTECTION & REVEGETATION REQUIREMENTS
PER U.S.D.A. SOIL CONSERVATION SERVICE GUIDELINES

1. PRACTICE NO. & NAME: 342 - CRITICAL AREA TREATMENT RANGE SITE: SANDY FOOTHILLS

2. PLANNED SEEDING PREP:		SEEDING OPERATION:	
A. METHOD:	SEEDING OPERATION:	A. METHOD:	DRILL
B. DATES OCT. 15 - MAY 31	INTERSEED	B. DATES:	OCT. 15 - MAY 31
C. CLEAN TILLED	BROADCAST	C. CLEAN TILLED:	XX
D. FIRM SEEDBED	INTERSEED	D. FIRM SEEDBED:	XX
E. STUBBLE COVER	TYPE GRASS / AGITATOR	E. STUBBLE COVER:	XX
F. INTERSEED	PLANTING DEPTH	F. INTERSEED:	XX
G. OTHER:		G. OTHER:	

WEED CONTROL:		N/A	
FERTILIZER:		N/A	
POUNDS ACTUAL PER ACRE:		N/A	
AVAILABLE:		N/A	
P205:		N/A	
K:		N/A	

MULCH:		STEM NATIVE HAY	
KIND:		4,000	
AMOUNT:		POUNDS/ACRE	
HOW APPLIED:		N/A	
HOW ANCHORED:		CRIMPED	
ANCHORAGE DEPTH:		4"	

SEED:		REQUIRED PLS. RATES PER ACRES (10002)	
VARIETY:	SPECIES:	PLANNED (3) x (4):	TOTAL PLS. LBS./ACRES PLANNED (3) x (4):
GOSHEN:	PAIRIE SANDBERG:	43 x 62:	427
VAUGHN:	SIDEDATS GRAMMA:	25 x 25:	981
LOVINGTON:	BLUE GRAMMA:	15 x 0.45:	43.6
BLACKWELL:	SWITCH GRASS:	20 x 0.90:	43.6
PASTURA:	LITTLE BLUESTEM:	25 x 1.75:	43.6

2. OF SPECIES PER SPECIES/ACRE:		(4) TOTAL PLS. LBS./ACRES PLANNED (3) x (4):	
15:	0.98:	43.6:	427
25:	2.25:	43.6:	981
15:	0.45:	43.6:	196
20:	0.90:	43.6:	392
25:	1.75:	43.6:	763

BMP LEGEND

- SILT FENCE: SF
- VEHICLE TRACKING CONTROL: VTC
- CONCRETE WASHOUT AREA: CWA
- EROSION CONTROL BLANKET: ECB
- SEDIMENT CONTROL LOG: SCL
- INLET PROTECTION (BLOCK & ROCK SOCK): IP1
- STABILIZED STAGING AREA: SSA
- STOCKPILE PROTECTION: SF, JS, SP1

REV.	DESCRIPTION	DATE



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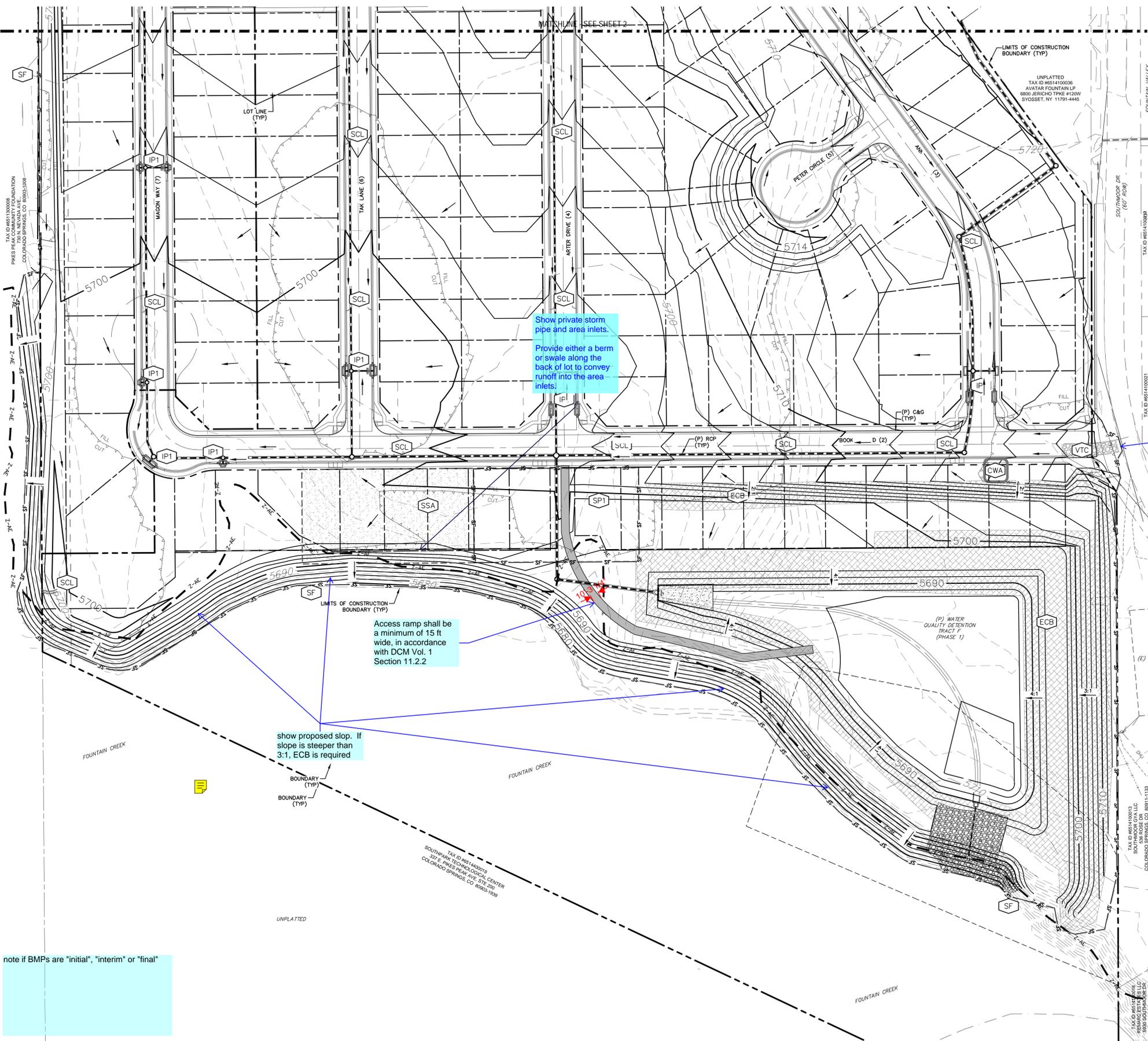
PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 1200 #204
SYOSSET, NY 11791

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF CATAMOUNT ENGINEERING.
DAVID L. MUJARES, COLORADO PE #40510



RIVERBEND CROSSING
FILING NOS 1 & 2
GRADING & EROSION
CONTROL PLAN

DESIGNED BY:	DLM	DRAWN BY:	MGP
SCALE:	1" = 60'	DATE:	02/10/20
JOB NUMBER:	17-114	SHEET:	3 OF 4

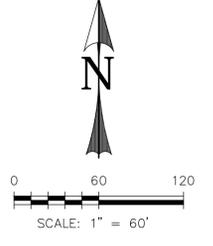


Show private storm pipe and area inlets.
Provide either a berm or swale along the back of lot to convey runoff into the area inlets.

Access ramp shall be a minimum of 15 ft wide, in accordance with DCM Vol. 1 Section 11.2.2

show proposed slope. If slope is steeper than 3:1, ECB is required

remove silt fence to allow for vehicle ingress/egress



NOTES:

- EXISTING VEGETATION ON THIS SITE PRIMARILY CONSIST OF GRASSES AND WEEDS.

LEGEND

- EXISTING: (E)
- PROPOSED: (P)
- CURB AND GUTTER: C&G
- BOUNDARY: ---
- RIGHT-OF-WAY: ---
- LOT LINE: ---
- (E) CONTOUR, INDEX: 5700
- (E) CONTOUR: ---
- (P) CONTOUR, INDEX: 5700
- (P) CONTOUR: ---
- (E) STORM SEWER: ---
- (P) STORM SEWER: ---
- CUT/FILL LINE: ---

