### LEGAL DESCRIPTION: GRANDVIEW RESERVE PHASE 2

A TRACT OF LAND BEING A PORTION SECTION 21, AND A PORTION OF THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6<sup>TH</sup> PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING DESCRIBED AS FOLLOWS:

### **BASIS OF BEARINGS:**

THE EAST LINE OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6<sup>TH</sup> PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED ACCORDINGLY, "PLS 30087," AND BEING MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED ACCORDINGLY, "PLS 30087," BEING ASSUMED TO BEAR N00°52'26"W, A DISTANCE OF 5,290.17 FEET.

COMMENCING AT THE SOUTHEAST CORNER OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6<sup>TH</sup> PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO:

THENCE N00°52'26"W ON THE EAST LINE OF SAID SECTION 21. A DISTANCE OF 2.645.09 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF SAID SECTION 21; THENCE N89°50'58"W, ON SAID NORTH LINE, A DISTANCE OF 2,471.06 FEET TO THE POINT OF BEGINNING; THENCE ON THE ARC OF A CURVE TO THE RIGHT WHOSE CENTER BEARS S24°25'09"W, HAVING A DELTA OF 21°22'37", A RADIUS OF 1,061.00 FEET, A DISTANCE OF 395.86 FEET TO A POINT OF TANGENT; THENCE S44°12'14"E A DISTANCE OF 446.79 FEET TO A POINT OF CURVE; THENCE ON THE ARC OF A CURVE TO THE RIGHT HAVING A DELTA OF 31°01'27", A RADIUS OF 1,261.00 FEET, A DISTANCE OF 682.80 FEET TO A PONT OF TANGENT; THENCE S13°10'46"E A DISTANCE OF 235.68 FEET TO A POINT OF CURVE: THENCE ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 57°06'29". A RADIUS OF 839.00 FEET. A DISTANCE OF 836.25 FEET TO A POINT ON CURVE: THENCE S19°42'45"W A DISTANCE OF 111.00 FEET: THENCE S23°10'57"W A DISTANCE OF 204.59 FEET TO A POINT OF CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT HAVING A DELTA OF 29°56'47", A RADIUS OF 142.50 FEET A DISTANCE OF 74.48 FEET TO A POINT OF TANGENT; THENCE S06°45'50"E A DISTANCE OF 66.21 FEET; THENCE S54°32'52"E A DISTANCE OF 5.87 FEET; THENCE S14°14'45"E A DISTANCE OF 65.01 FEET; THENCE S28°43'11"W A DISTANCE OF 325.08 FEET TO A POINT ON CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS S03°47'46"W, HAVING A DELTA OF 76°32'04", A RADIUS OF 60.00 FEET A DISTANCE OF 80.15 FEET TO A POINT ON CURVE; THENCE N72°44'18"W A DISTANCE OF 15.00 FEET; THENCE S65°27'05"W A DISTANCE OF 122.04 FEET; THENCE N31°44'28"W A DISTANCE OF 23.97 FEET TO A POINT ON CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS S58°25'43"W, HAVING A DELTA OF 12°10'43", A RADIUS OF 1,363.49 FEET A DISTANCE OF 289.82 FEET TO A POINT ON CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS S49°18'50"W, HAVING A DELTA OF 26°23'43" A RADIUS OF 1,668.20 FEET A DISTANCE OF 768.52 FEET TO A POINT ON CURVE; THENCE N60°22'39"W A DISTANCE OF 211.52 FEET; THENCE N53°13'21"W A DISTANCE OF 159.27 FEET TO A POINT OF CURVE SAID POINT BEING ON THE EASTERLY BOUNDARY LINE OF THE TRACT OF LAND DESCRIBED IN THE DOCUMENT RECORDED UNDER RECEPTION NUMBER 223014483, RECORDS OF EL PASO COUNTY, COLORADO; THENCE ON SAID EASTERLY BOUNDARY LINE THE FOLLOWING NINE (9) COURSES:

- N49°18'05"W A DISTANCE OF 309.26 FEET TO A POINT OF CURVE;
   ON THE ARC OF A CURVE TO THE RIGHT HAVING A DELTA OF 55°09'30", A RADIUS OF 550.00 FEET, A DISTANCE OF 529.48 FEET TO A POINT OF TANGENT:
- N05°51'25"E A DISTANCE OF 481.83 FEET TO A POINT OF CURVE;
   ON THE ARC OF A CURVE TO THE LEFT HAVING DELTA OF 11°17'04", A RADIUS OF 1,140.00 FEET, A DISTANCE OF 224.52 FEET TO A POINT OF
- TANGENT; 5. N05°25'39"W A DISTANCE OF 185.30 FEET TO A POINT OF CURVE;
- 6. ON THE ARC OF A CURVE TO THE RIGHT HAVING A DELTA OF 32°15'55", A RADIUS OF 250.00 FEET, A DISTANCE OF 140.78 FEET TO A POINT OF TANGENT;
- 7. N26°50'16"E A DISTANCE OF 203.39 FEET; 8. N78°54'36"W A DISTANCE OF 120.75 FEET;
- 9. N11°05'24"E A DISTANCE OF 36.85 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF SAID SECTION 21;

THENCE CONTINUING N11°05'24"E A DISTANCE OF 93.15 FEET; THENCE S78°54'36"E A DISTANCE OF 146.34 FEET TO A POINT OF CURVE; THENCE ON THE ARC OF A CURVE TO THE RIGHT, HAVING A DELTA OF 11°57'41", A RADIUS OF 1,050.00 A DISTANCE OF 219.21 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF SAID SECTION 21; THENCE S89°50'58"E ON SAID NORTH LINE A DISTANCE OF 27.49 FEET TO THE POINT OF BEGINNING;

CONTAINING A CALCULATED AREA OF 2,993,622 SQUARE FEET OR 68.724 ACRES, MORE OR LESS.

### FLOODPLAIN NOTES:

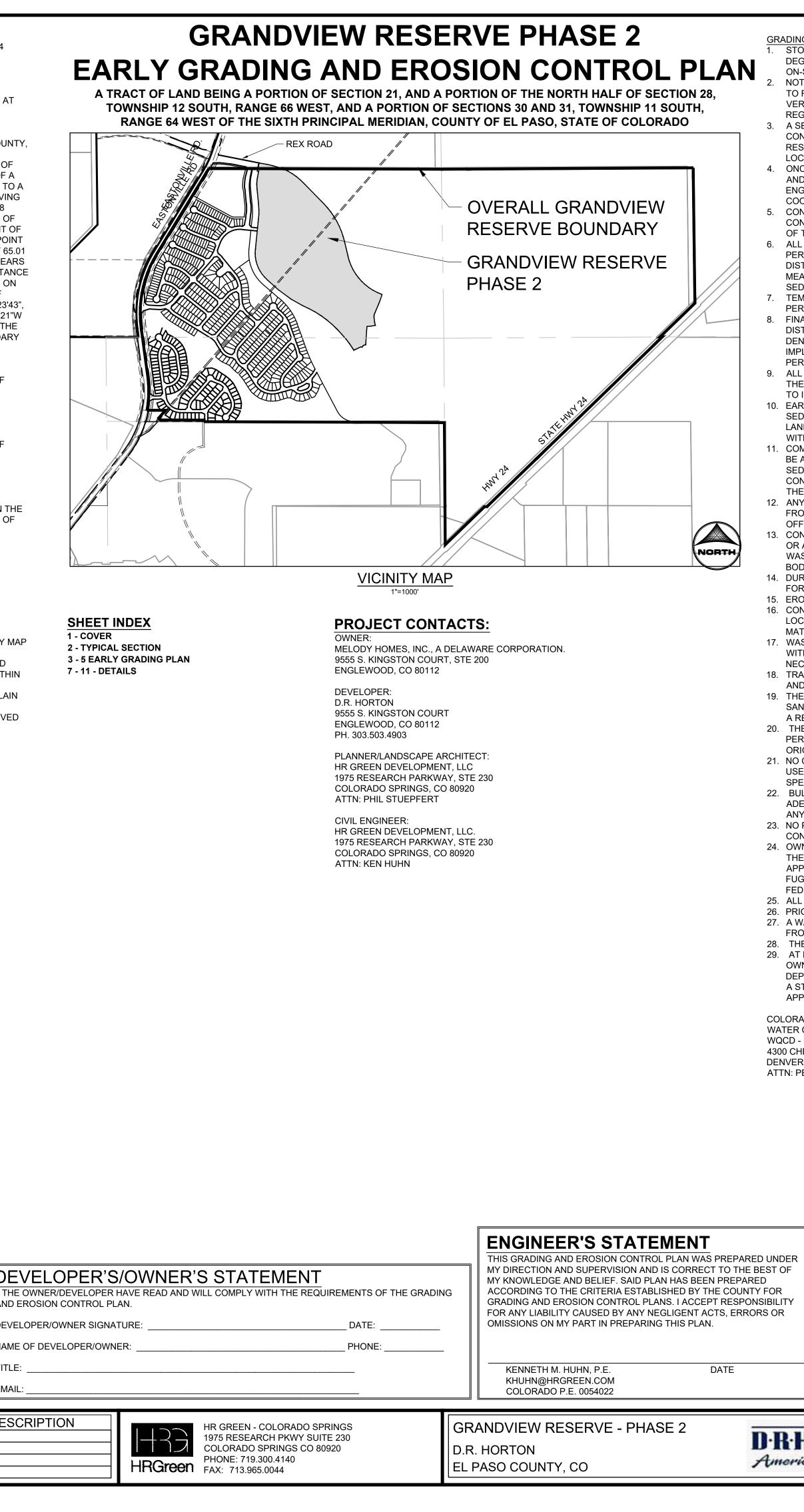
- THIS PROPERTY IS LOCATED WITHIN A DESIGNED FEMA FLOODPLAIN AS DETERMINED BY THE FLOOD INSURANCE RATE MAP, COMMUNITY MAP NUMBERS '08041C0556G' AND '08041C0552G' EFFECTIVE DATE 7, 2018.
   THE EXISTING FLOODPLAIN BOUNDARIES WILL BE REVISED VIA A LOMR MODELING THE PROPOSED IMPROVEMENTS TO ESTABLISH FLOOD
- 2. THE EXISTING FLOODPLAIN BOUNDARIES WILL BE REVISED VIA A LOWR MODELING THE PROPOSED IMPROVEMENTS TO ESTABLISH FLOOD ELEVATIONS AND THEN PROCESSED THROUGH TO FEMA TO ESTABLISH ZONE AE FLOODPLAIN LIMITS. NO GRADING WILL TAKE PLACE WITHIN THE EXISTING FLOODPLAIN LIMITS UNTIL THE CLOMR HAS BEEN APPROVED.
- THOSE LOTS EITHER PARTIALLY OR ENTIRELY LOCATED WITHIN THE CURRENT FLOODPLAIN SHALL NOT BE PLATTED UNTIL THE FLOODPLAIN BOUNDARY REVISION PROCESS IS COMPLETED EFFECTIVELY REMOVING THE FLOODPLAIN LIMITS FROM THESE LOTS.
   THE SUBMITTAL AND REVIEW OF THE FLOODPLAIN REVISION OCCUR INDEPENDENTLY OF THIS PRELIMINARY PLAN AND SHALL BE APPROVED
- PRIOR TO THE PLATTING OF ANY LOTS CURRENTLY LOCATED WITHIN FLOODPLAIN BOUNDARIES. 5. NO STRUCTURES OR SOLID FENCES ARE PERMITTED WITHIN THE DESIGNATED FLOODPLAIN AREA.

## **GEOTECH NOTE:**

THE FOLLOWING CONCLUSIONS/RECOMMENDATIONS FROM THE SOILS REPORT ARE UTILIZED IN THE GRADING DESIGN OF THIS PLAN SET; 3:1 MAXIMUM PERMISSIBLE SLOPE, DEWATERING IS REQUIRED IF GROUNDWATER IS DISCOVERED DURING GRADING, THE PROPERTY DOES NOT FALL WITHIN A GEOLOGICAL HAZARD AREA.

DEWATERING OPERATIONS ARE TO BE AS FOLLOWS: DEWATERING OPERATIONS SHALL DISCHARGE TO TEMPORARY SEDIMENT BASINS, GROUNDWATER IS THE ONLY ALLOWABLE DISCHARGE (NO NON-STORMWATER IS TO BE DISCHARGED).

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### GRADING AND EROSION CONTROL NOTES:

STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.

NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE, AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.

 A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCITING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OF CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
 ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND THE EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.

CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.

ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATION 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. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS

FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.

9. ALL PERMANENT STORMWATER FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OF FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.

 EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES HALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
 COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OF WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL ARES DESIGNATED FOR INFILTRATION 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.

 DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
 EROSION BLANKET OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.

 CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED OR DISCHARGED AT THIS SITE.

17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.

 TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP PROPERLY AND PROPERLY DISPOSED OF IMMEDIATELY.

19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION, DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF THE SITE DEVELOPMENT.

20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN AN EAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABEL.

21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S) SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.

 BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRED ADEQUATE SECONDARY PROTECTION TO CONTAIN AL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
 NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT

CONTROL MEASURES.
24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS) AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS RULES OR REGULATIONS OF OTHER

FEDERAL, STATE, LOCAL OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY.

25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.

 PRIOR TO CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
 A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

THE SOILS REPORT FOR THE SITE HAS BEEN PREPARED BY CTL THOMPSON AND SHALL BE CONSIDERED A PART OF THESE PLANS.
 AT LEAST (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL DIVISION WQCD - PERMITS 4300 CHERR CREEK DRIVE SOUTH

DENVER, CO 80246-1530

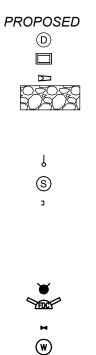
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JOSH PALMER, P.E. COUNTY ENGINEER/EC	DATE NOT FOR CC	 ON NO: <u>PUDSP</u>	-23-006
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# LEGEND

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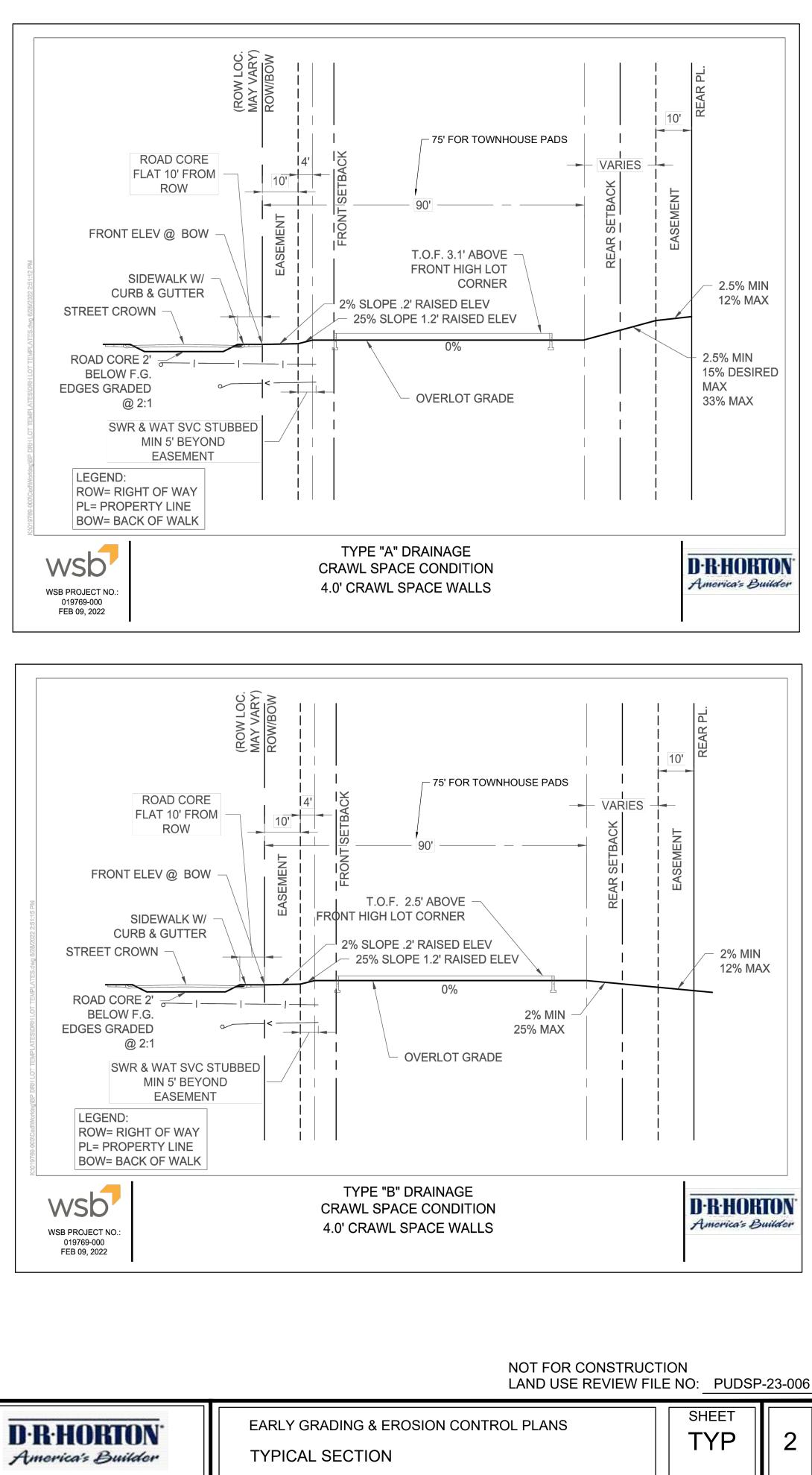
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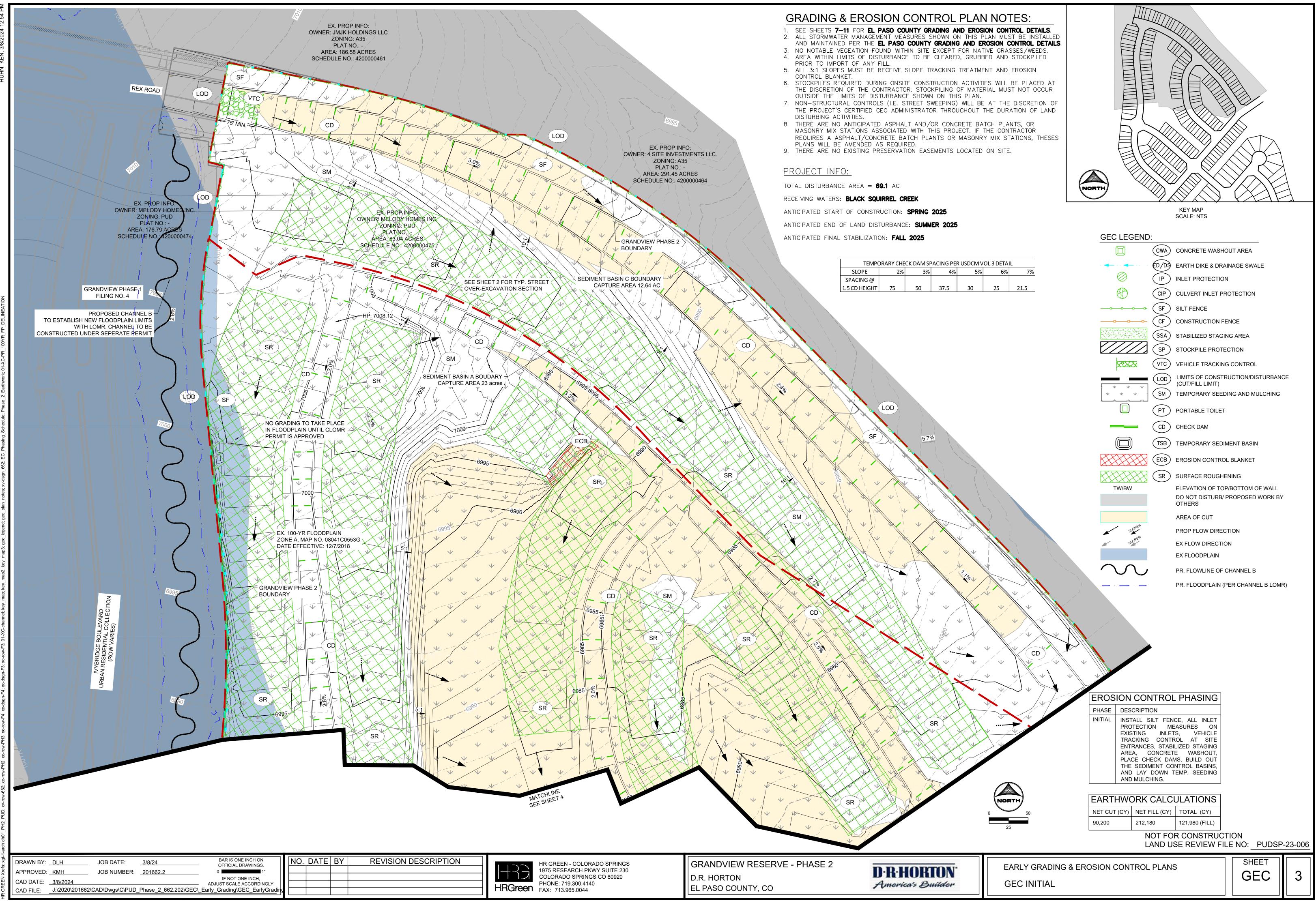


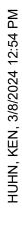


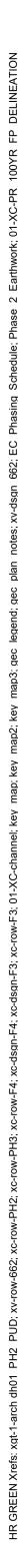
HR GREEN - COLORADO SPRINGS 1975 RESEARCH PKWY SUITE 230 COLORADO SPRINGS CO 80920 PHONE: 719.300.4140 FAX: 713.965.0044

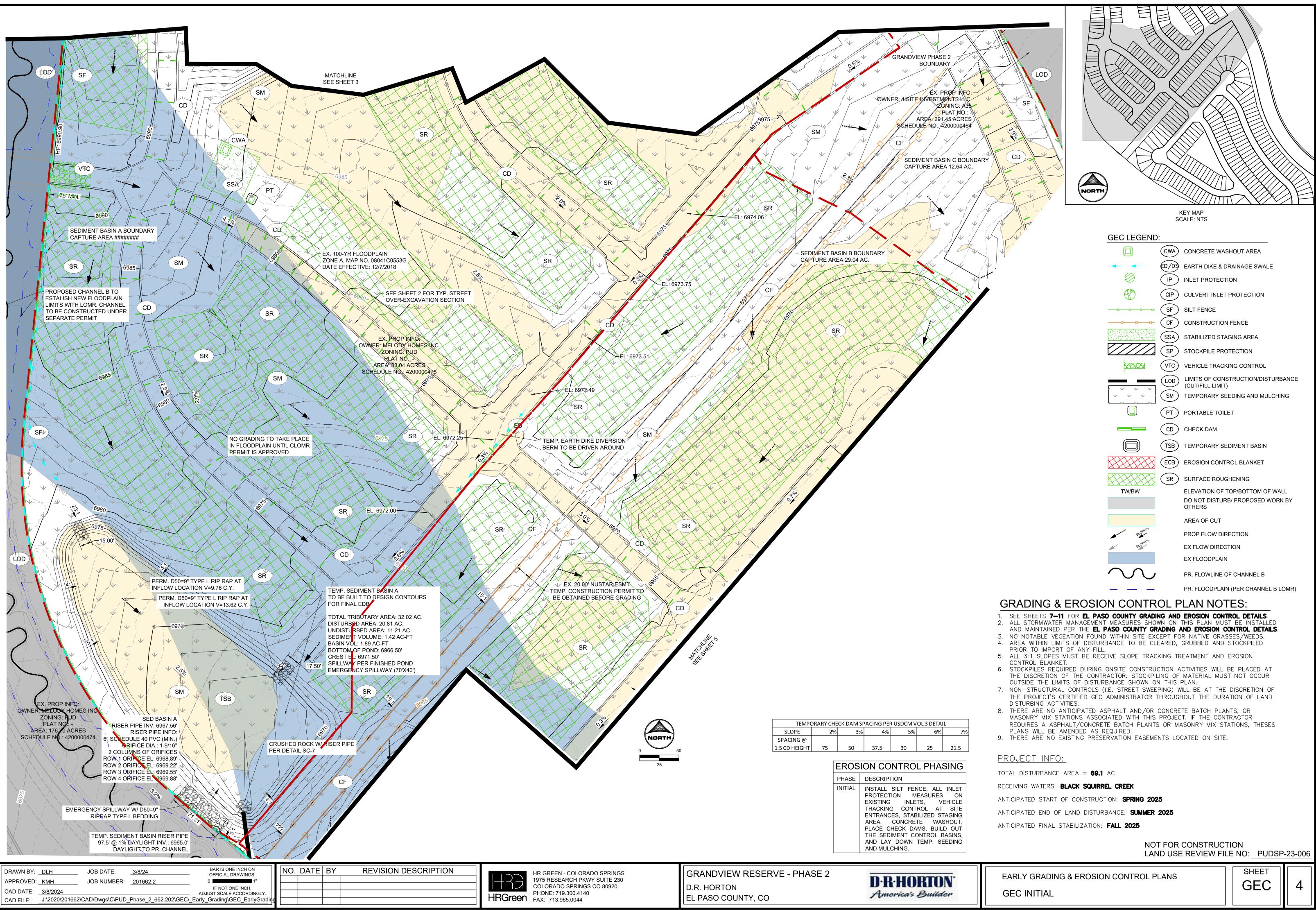
GRANDVIEW RESERVE - PHASE 2 D.R. HORTON EL PASO COUNTY, CO





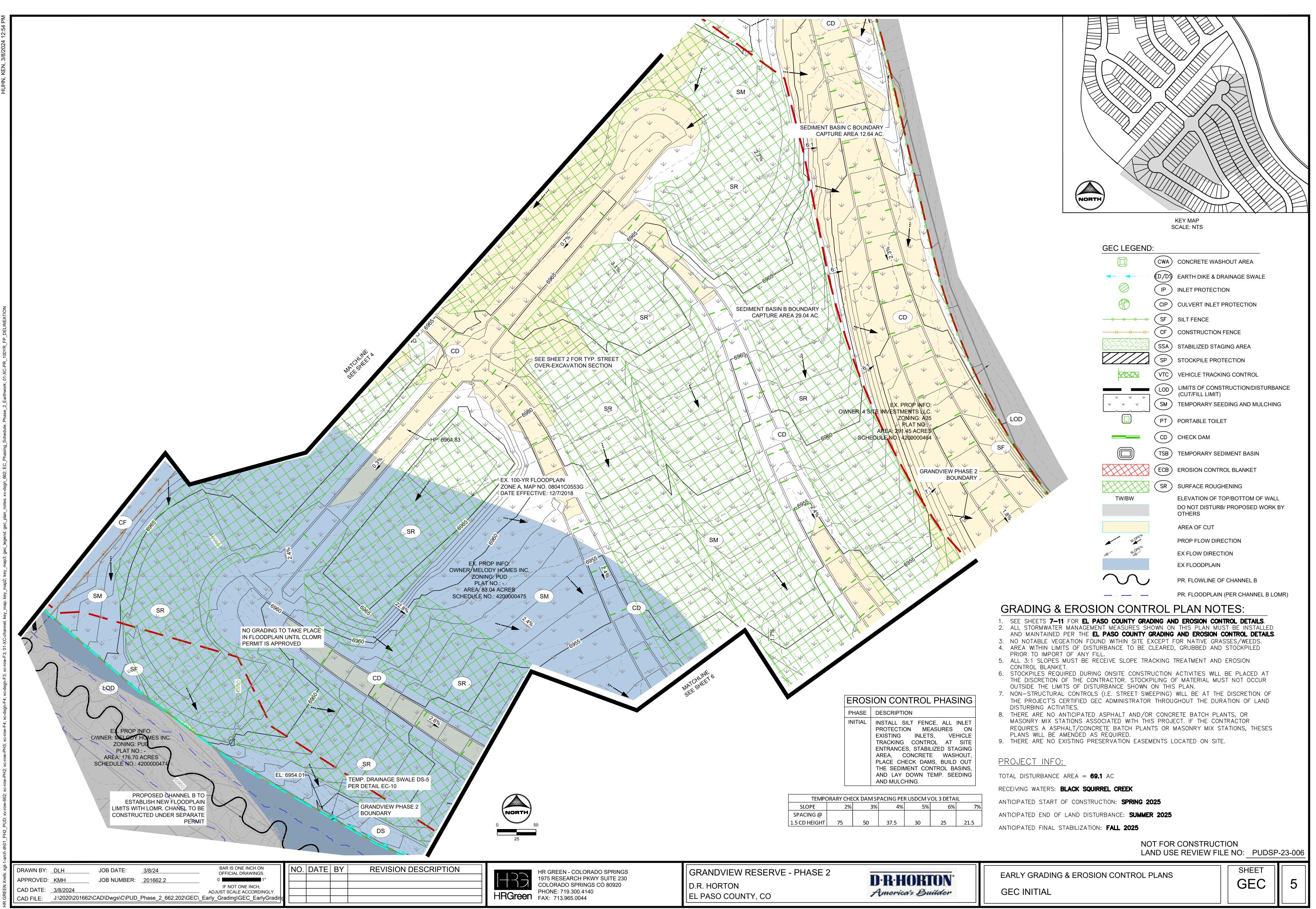






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	CF	CONSTRUCTION FENCE
	SSA	STABILIZED STAGING AREA
	SP	STOCKPILE PROTECTION
	VTC	VEHICLE TRACKING CONTROL
	LOD	LIMITS OF CONSTRUCTION/DISTURBANCE (CUT/FILL LIMIT)
✓ ✓ ✓	SM	TEMPORARY SEEDING AND MULCHING
	PT	PORTABLE TOILET
	CD	CHECK DAM
	TSB	TEMPORARY SEDIMENT BASIN
	ECB	EROSION CONTROL BLANKET
	SR	SURFACE ROUGHENING
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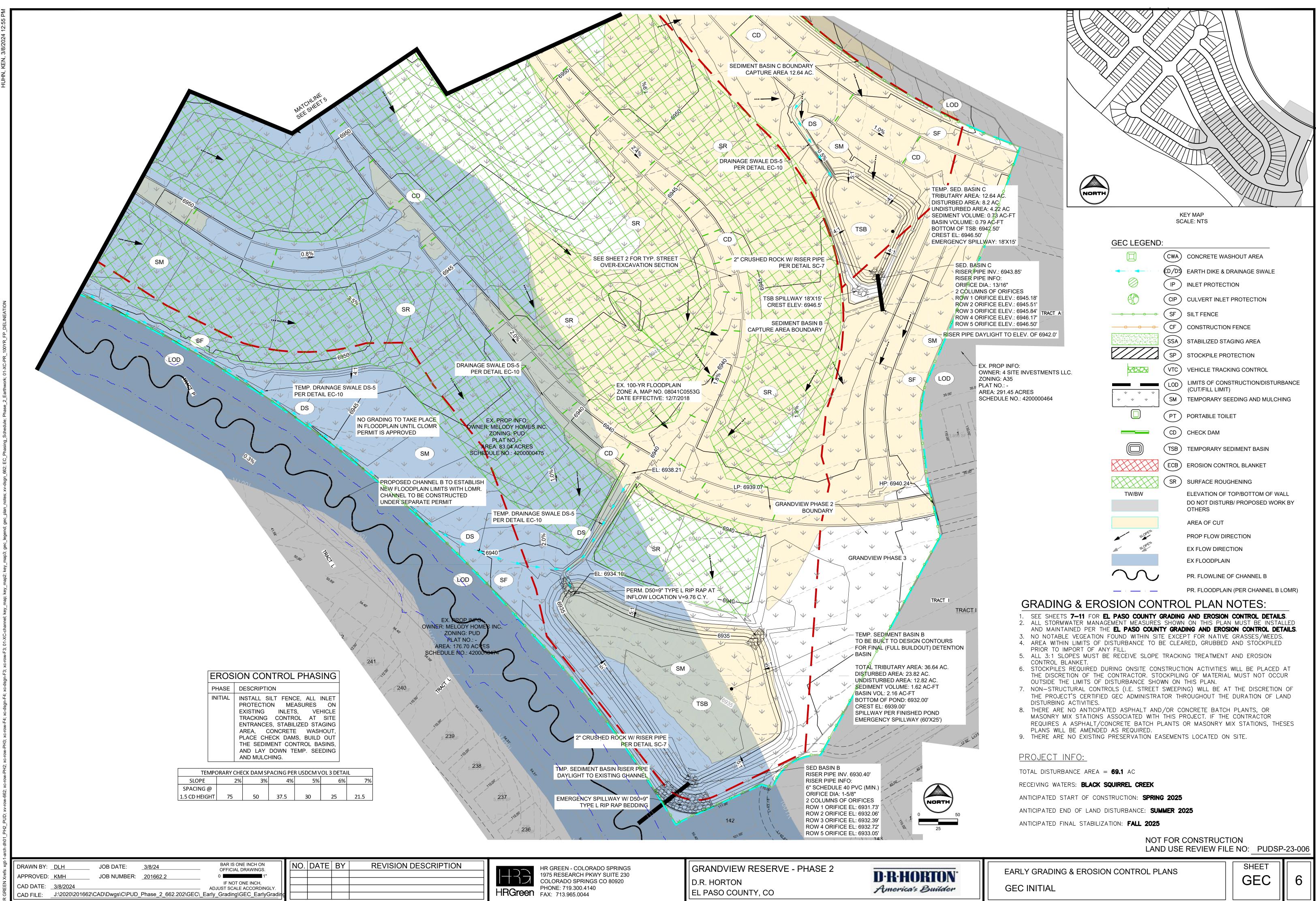




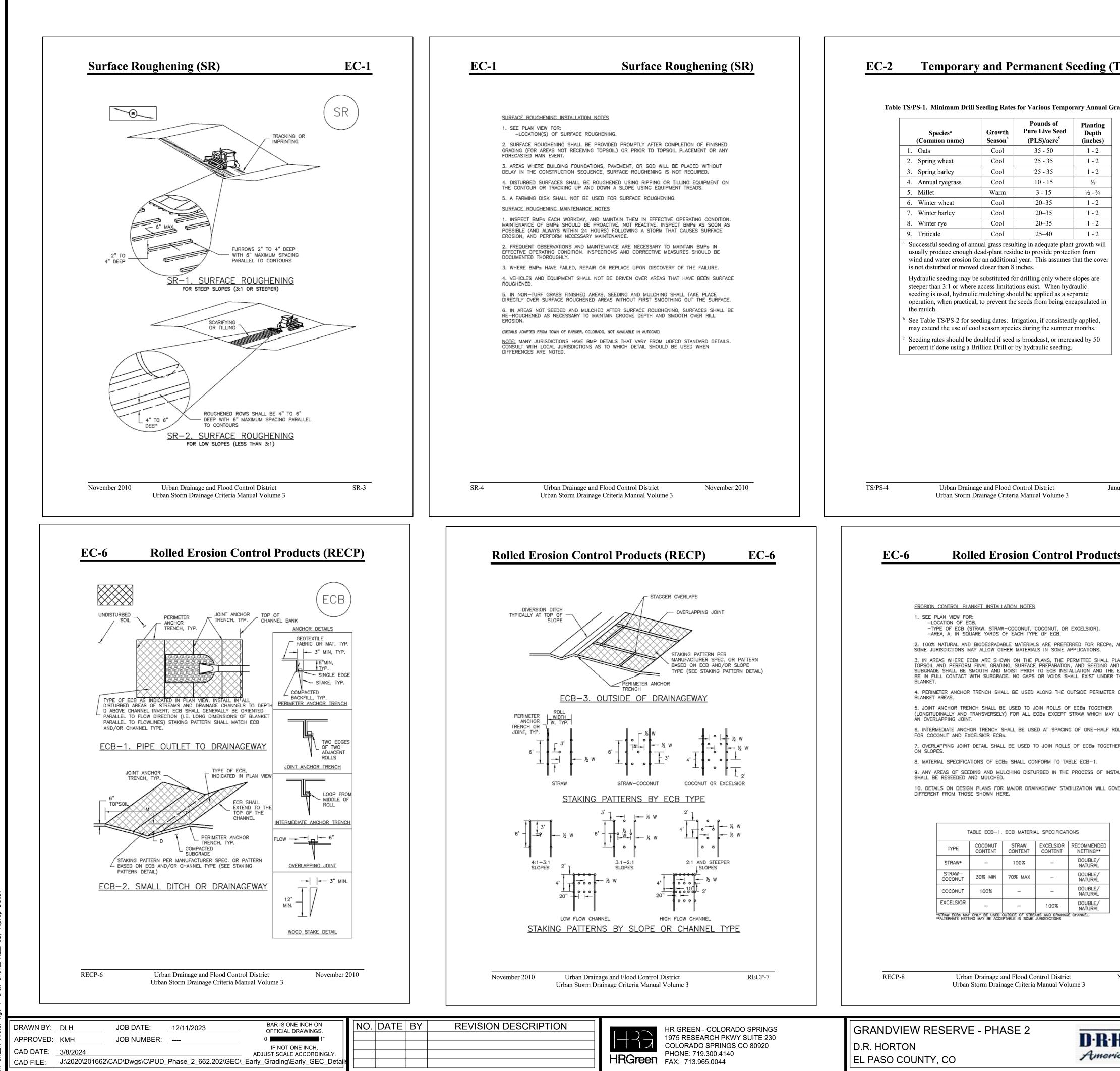
GEC LEGEND		
	(CWA)	CONCRETE WASHOUT AREA
		EARTH DIKE & DRAINAGE SWALE
$\bigcirc$		INLET PROTECTION
	CIP	CULVERT INLET PROTECTION
ooo	SF	SILT FENCE
oo	CF	CONSTRUCTION FENCE
	SSA	STABILIZED STAGING AREA
	SP	STOCKPILE PROTECTION
<u>x8</u> x2x	VTC	VEHICLE TRACKING CONTROL
	LOD	LIMITS OF CONSTRUCTION/DISTURBANCE (CUT/FILL LIMIT)
<b>* * *</b>	SM	TEMPORARY SEEDING AND MULCHING
	PT	PORTABLE TOILET
	CD	CHECK DAM
	TSB	TEMPORARY SEDIMENT BASIN
	ECB	EROSION CONTROL BLANKET
	SR	SURFACE ROUGHENING
TW/BW		ELEVATION OF TOP/BOTTOM OF WALL DO NOT DISTURB/ PROPOSED WORK BY OTHERS
		AREA OF CUT
SLOPE"		PROP FLOW DIRECTION
SLOPE?		EX FLOW DIRECTION
		EX FLOODPLAIN
$\sim$		PR. FLOWLINE OF CHANNEL B
		PR. FLOODPLAIN (PER CHANNEL B LOMR)

ON			
SILT	FENCE,	ALL	INLET
ON	MEASU	JRES	ON
	INLETS,	VE	HICLE
С	ONTROL	AT	SITE
ES, S	STABILIZE	D ST	AGING
CON	CRETE	WAS	HOUT,
	DAMS,		
	T CONTR		
DO\	NN TEM	P. SE	EDING
HIN	G.		

R USDCM VOL 3 DETAIL							
,	5%	6%	7%				
30		25	21.5				



HUHN, KEN, 3/8/2024 12:55 PN

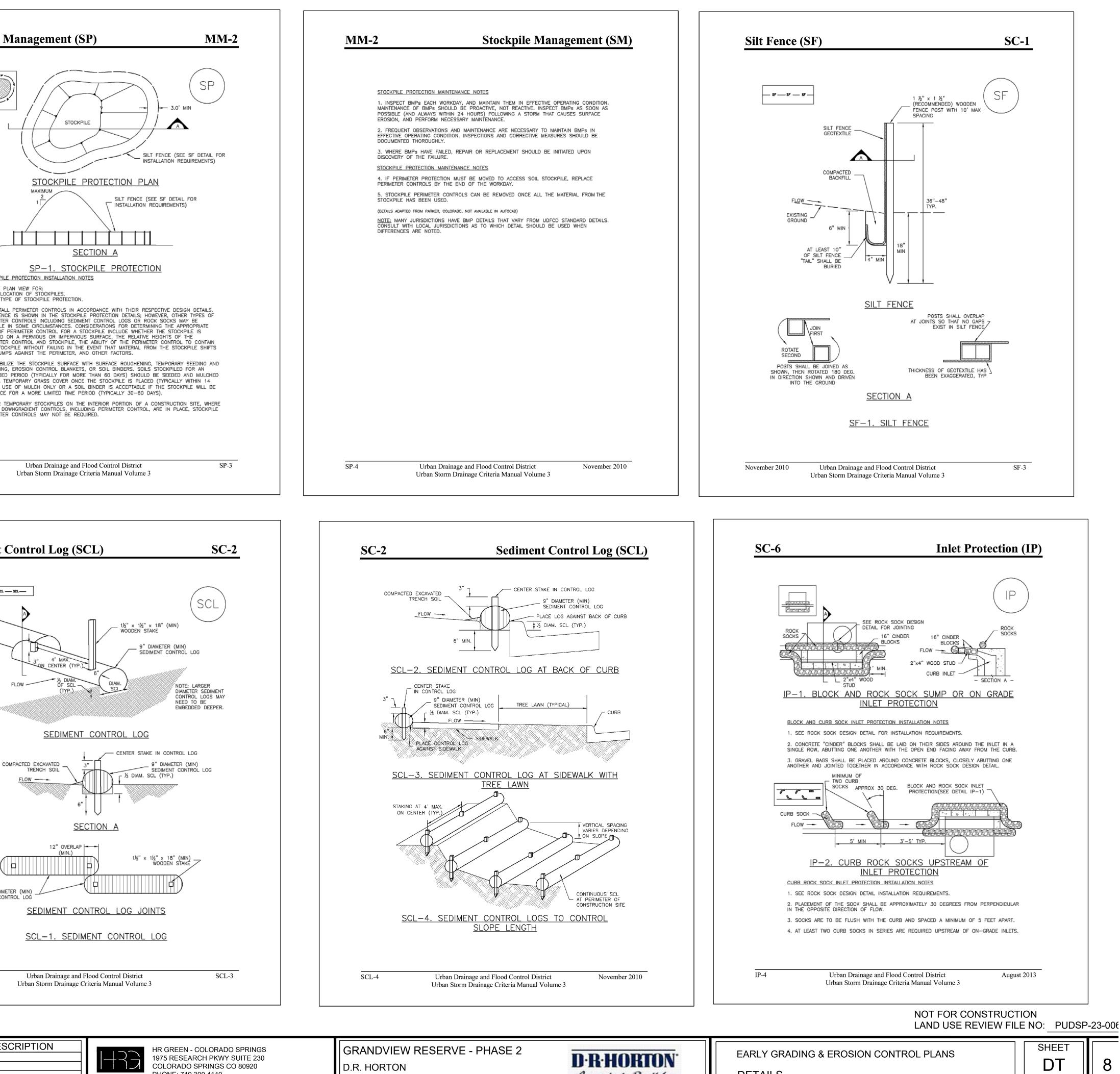


N Xrefs: xgt-1-arch dh01\_PH2\_PUD; Riprap [

Table TS/PS-2	. Seeding Dates f	for Annual and	Perennial Grass	ses
		Grasses	Perennial	Grasses
Seeding Dates		able TS/PS-1) Cool	Warm	Cool
January 1–March 15 March 16–April 30 May 1–May 15		1,2,3	✓ ✓ ✓	✓ ✓
May 16–June 30 July 1–July 15	5 5			
July 16–August 31 September 1–September 30 October 1–December 31		6, 7, 8, 9	✓	✓
Mulch Cover seeded areas with mulch or of vegetation. Anchor mulch by c Volume 2 <i>Revegetation</i> Chapter an guidance. Maintenance and Rem	rimping, netting o nd Volume 3 Mul	r use of a non-to	xic tackifier. Se	e the USDCM
Monitor and observe seeded areas and mulch these areas, as needed. If a temporary annual seed was pla there will be no further work in the the annual mix needs time to matu perennial mix, it should be seeded temporary annual mix was seeded. heads should be removed and then An area that has been permanently season if irrigated and within three the site that fail to germinate or ref Seeded areas may require irrigatio also be necessary. Protect seeded areas from construct	anted, the area sho e area. To minimi re and die before during the approp . Alternatively, if the area seeded v seeded should ha e growing seasons main bare after the n, particularly dur	ould be reseeded ize competition be seeding the peren- oriate seeding dat this timeline is n with the perennial with the perennial without irrigation e first growing se ring extended dry	with the desired etween annual a mial mix. To in- es the second ye tot feasible, the a mix. of vegetation win n in Colorado. I eason. periods. Target	perennial mix w nd perennial spe crease success of ar after the nnual mix seed thin one growing Reseed portions
	Drainage and Flo rm Drainage Crite			TS/P
EROSION CONTROL BLANKET 1. INSPECT BMPs EACH WO MAINTENANCE OF BMPs SHO POSSIBLE (AND ALWAYS WIT EROSION, AND PERFORM NO 2. FREQUENT OBSERVATION: EFFECTIVE OPERATING CONE DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAIL DISCOVERY OF THE FAILURE 4. ECBs SHALL BE LEFT IN REMOVED BY THE LOCAL JU 5. ANY ECB PULLED OUT, REINSTALLED, ANY SUBGRAD A VOID UNDER THE BLANKE RESEEDED AND MULCHED A	I MAINTENANCE NOT ORKDAY, AND MAINT. OULD BE PROACTIVE THIN 24 HOURS) FO ECESSARY MAINTENA S AND MAINTENANC DITION. INSPECTIONS ED, REPAIR OR REF  I PLACE TO EVENTU JRISDICTION. TORN, OR OTHERWI DE AREAS BELOW T TORN, OR THAT REMAIL	TES AIN THEM IN EFFE 5, NOT REACTIVE. DLLOWING A STORN INCE. E ARE NECESSARY AND CORRECTIVE PLACEMENT SHOUL JALLY BIODEGRADE, SE DAMAGED SHAL HE GEOTEXTILE TH N DEVOID OF GRAS	CTIVE OPERATING INSPECT BMPs AS I THAT CAUSES S TO MAINTAIN BMI MEASURES SHOU D BE INITIATED UP UNLESS REQUES L BE REPAIRED O AT HAVE ERODED	IS SOON AS URFACE PS IN LD BE PON TED TO BE IR TO CREATED AIRED,
NOTE: MANY JURISDICTIONS CONSULT WITH LOCAL JURIS DIFFERENCES ARE NOTED. (DETAILS ADAPTED FROM DOUGLAS O	SDICTIONS AS TO W	HICH DETAIL SHOU	LD BE USED WHE	EN .

<b>MM-1</b>	Concrete Washout Are	ea (CWA)	Stoc
	<u>CE NOTES</u> 2's EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING ( F BMP's SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMP's AS		
POSSIBLE (AND EROSION, AND P 2. FREQUENT OE EFFECTIVE OPER/ DOCUMENTED TH	ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SU PERFORM NECESSARY MAINTENANCE. BSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMF ATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOUL FOROUGHLY.	JRFACE 2s IN _D BE	
DISCOVERY OF T 4. THE CWA SHA CAPACITY FOR C REMOVED ONCE	ALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAI CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SH THE MATERIALS HAVE REACHED A DEPTH OF 2'.	NTAIN ALL BE	
IN THE SUBSURF CONTAINER AND 6. THE CWA SHA 7. WHEN THE CV	ASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DI FACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATE DISPOSED OF PROPERLY. ALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS WA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SE ERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISE	R-TIGHT PLACED. ED AND	
NOTE: MANY JUR	IM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE RISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARI LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHE RE NOTED.	D DETAILS.	
CWA-4	Urban Drainage and Flood Control District	November 2010	Novemb
SC-1	Silt F	ence (SF)	Sedi
SILT FENCE INST	TALLATION_NOTES		
PONDING. SILT FE AT LEAST SEVER/ PONDING AND DE 2. A UNIFORM 6	" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER	LOCATION M FOR OR SILT	
BE USED. 3. COMPACT AND	FION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPME CHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL R ALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF A D.	DLLING.	
BE NO NOTICEAB 5. SILT FENCE F	SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THE BLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DU 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG TH E.	STAKES. IY STAPLES	
TURNED PERPENI EXTENDING PERPI RUNOFF FROM FL	OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE S DICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOO ENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH LOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.	DK" TO_KEEP	
MAINTENANCE OF POSSIBLE (AND )	ITENANCE NOTES IS EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING OF BMP'S SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMP'S AS ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SU PERFORM NECESSARY MAINTENANCE.	SOON AS	
EFFECTIVE OPERA DOCUMENTED TH	HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UP	D BE	
TO MAINTAIN THE SEDIMENTS IS AP	CUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED A: E FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUM PPROXIMATELY 6". EPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS LLAPSE.	ULATED	
AND APPROVED E SEDIMENT CONTR 7. WHEN SILT FE	S TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT ROL BMP. ENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WIT FILCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISE	PERIMETER	s
(DETAIL ADAPTED FROM	M TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD) RISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARI LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEI	D DETAILS.	
	Urban Drainage and Flood Control District Jrban Storm Drainage Criteria Manual Volume 3	November 2010	Novemb

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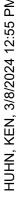
America's Builder

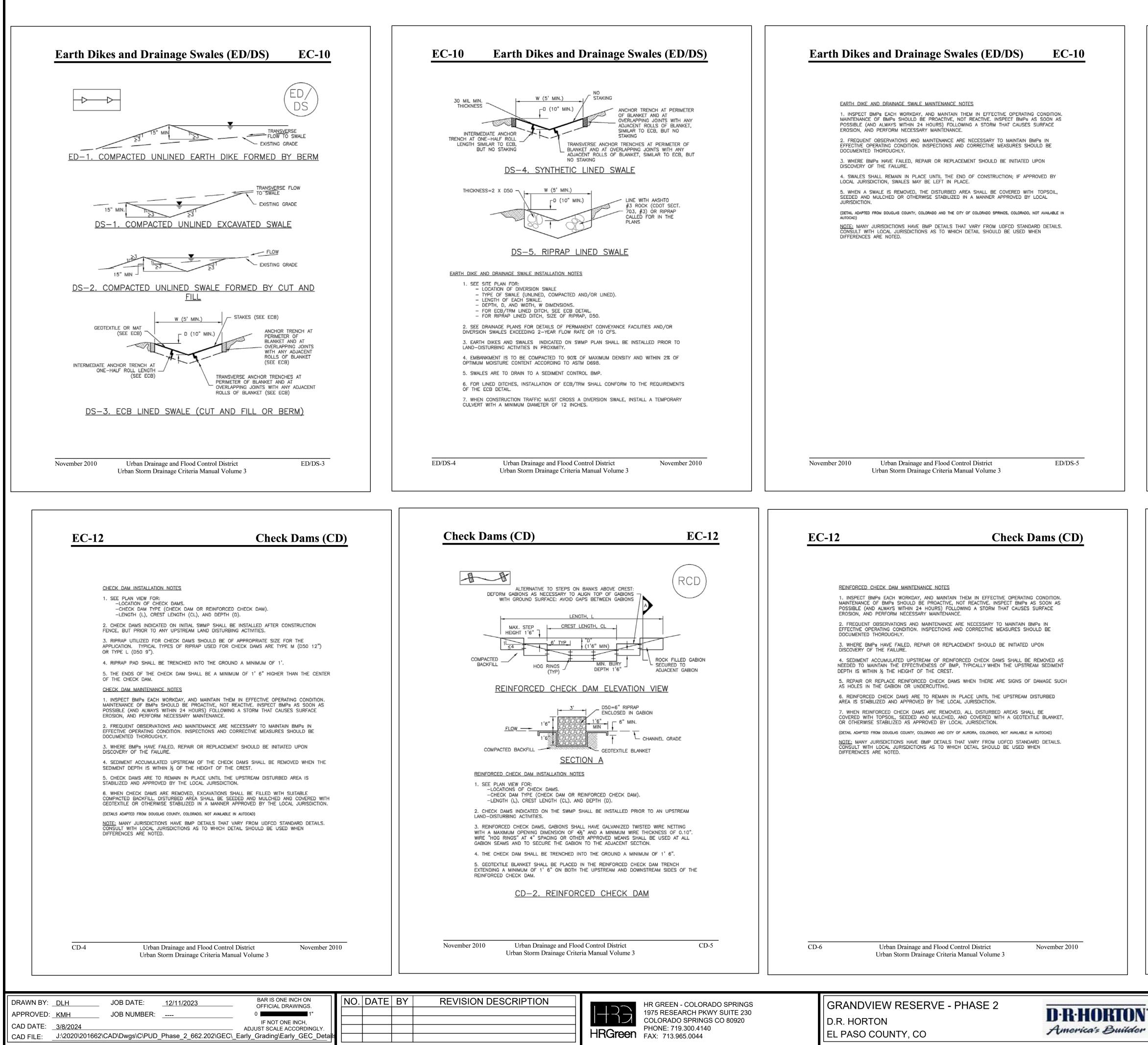
PHONE: 719.300.4140

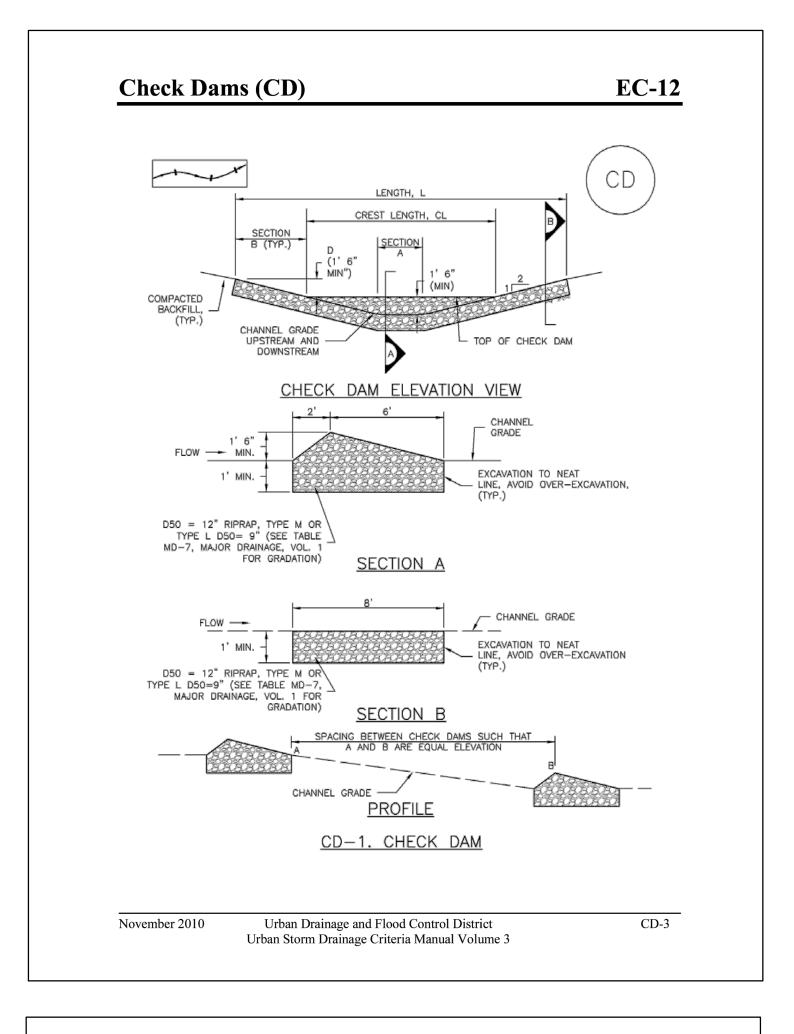
EL PASO COUNTY, CO

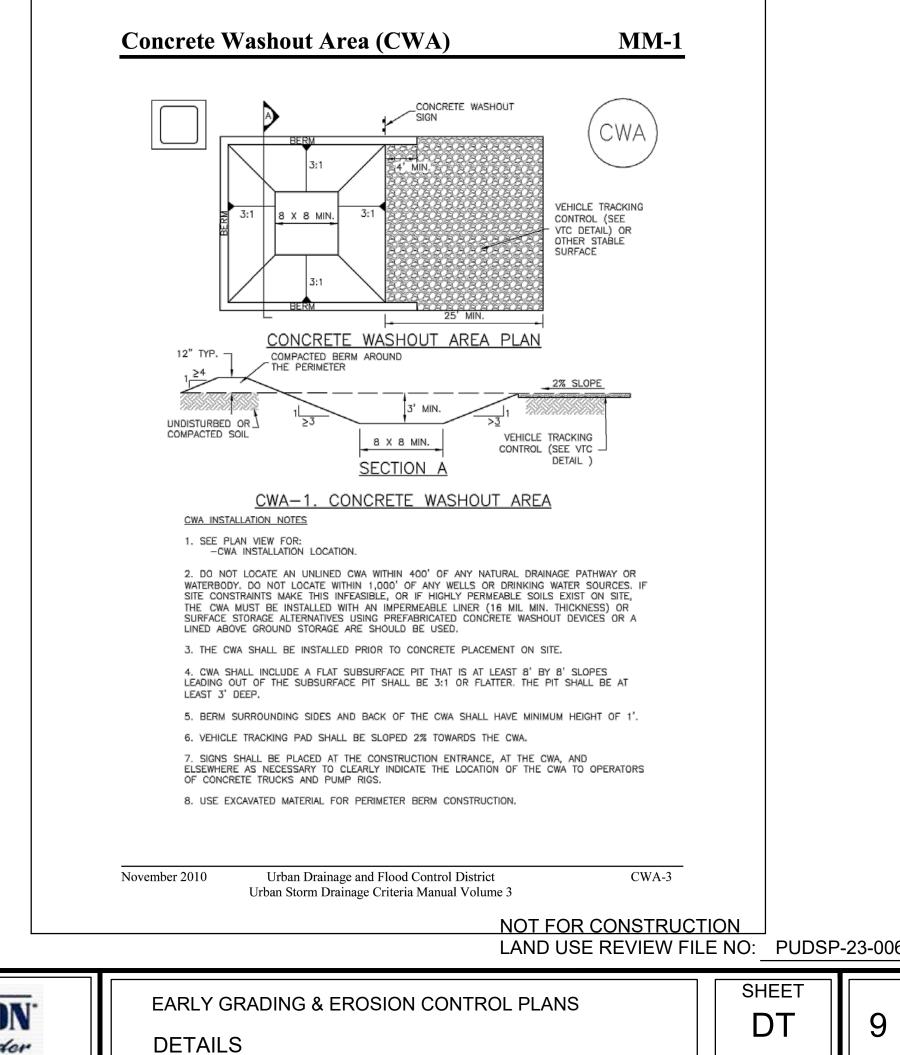
HRGreen FAX: 713.965.0044

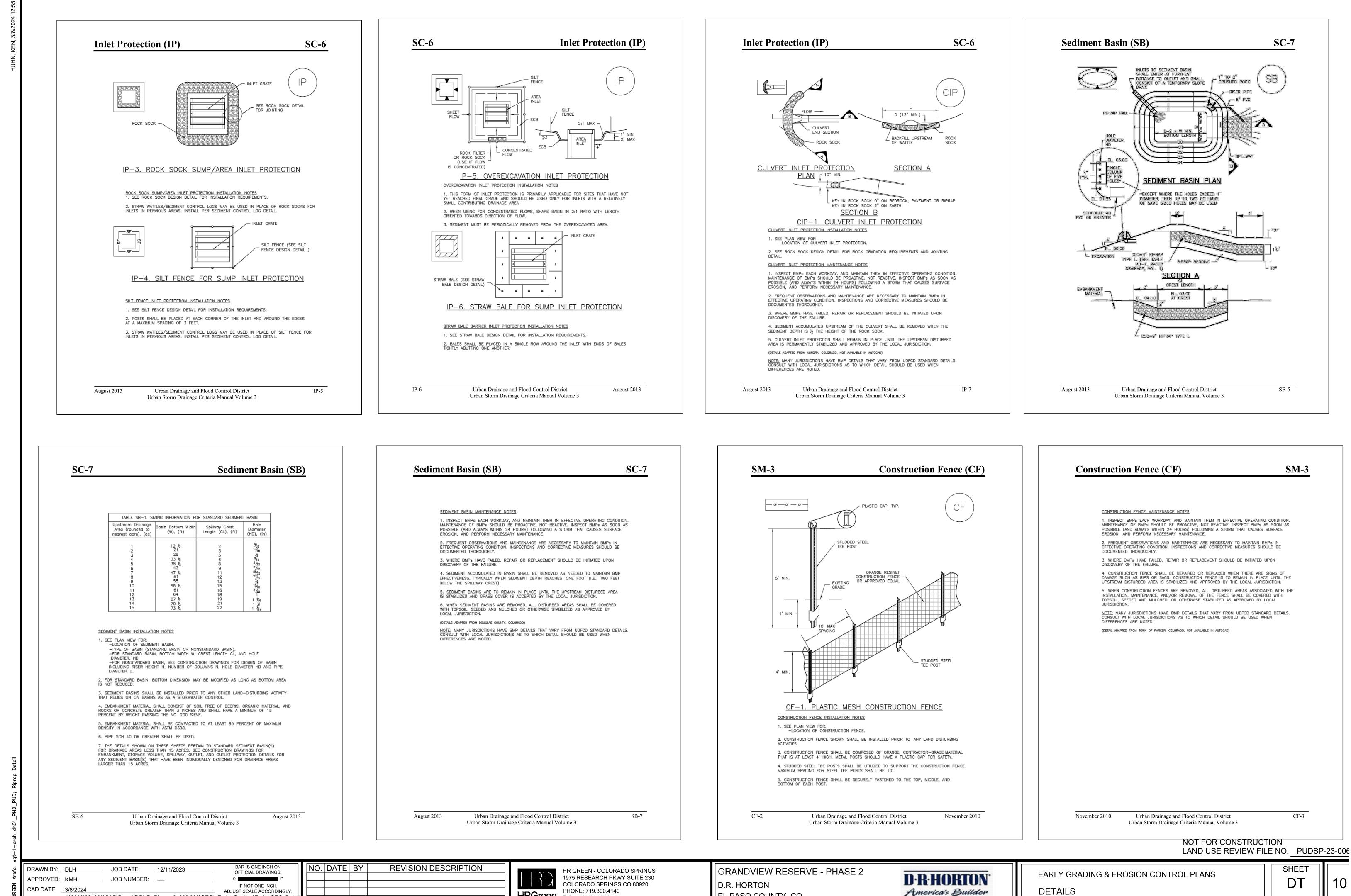
DETAILS

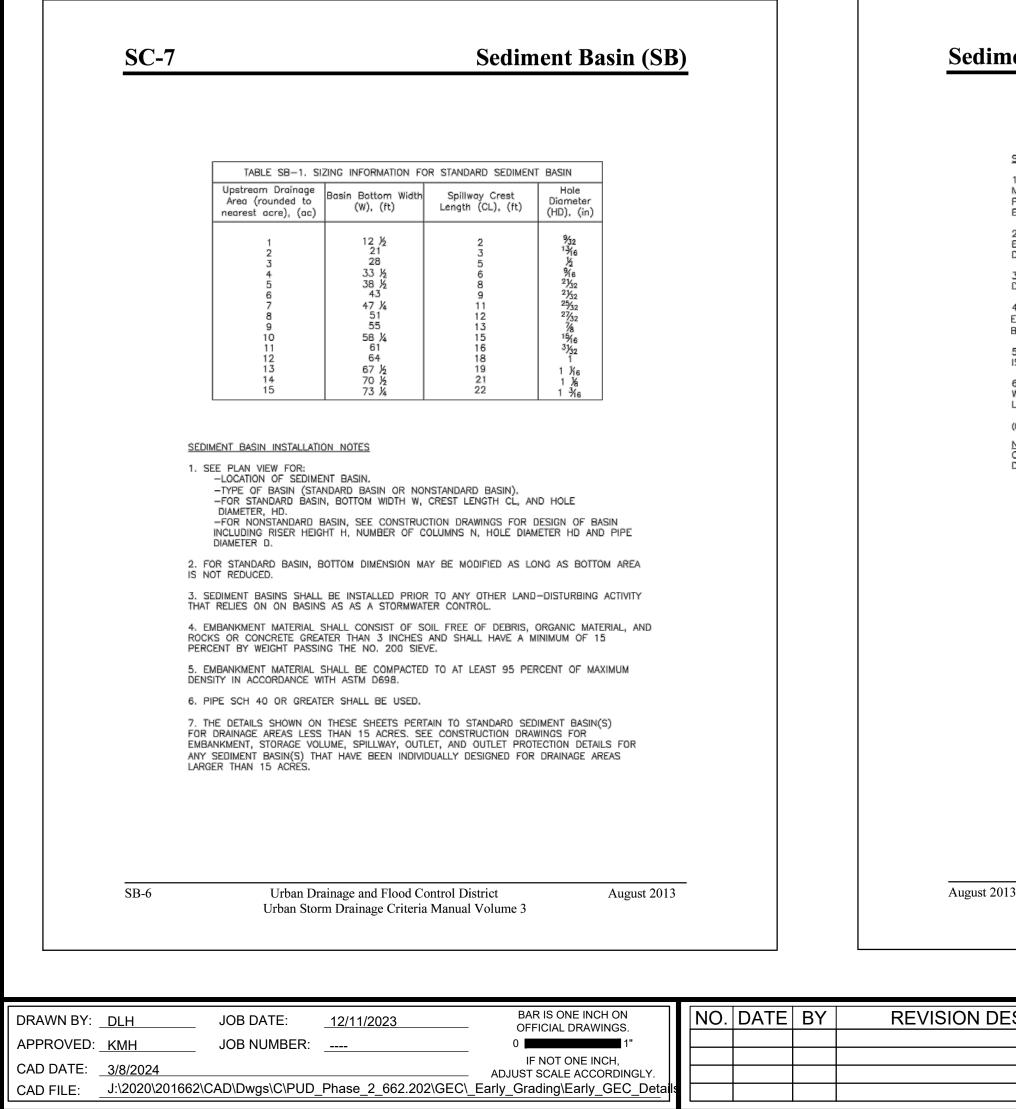


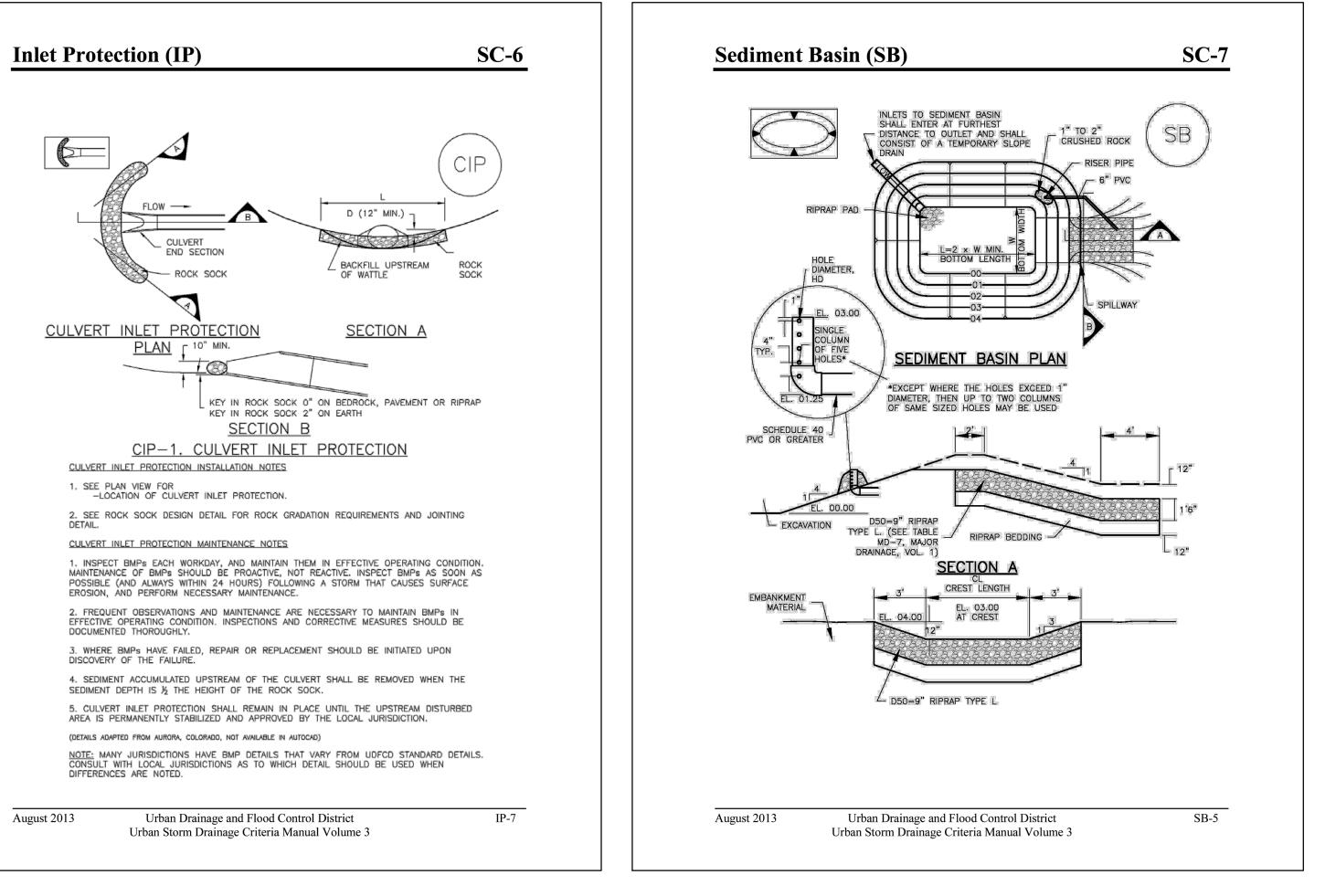




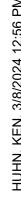


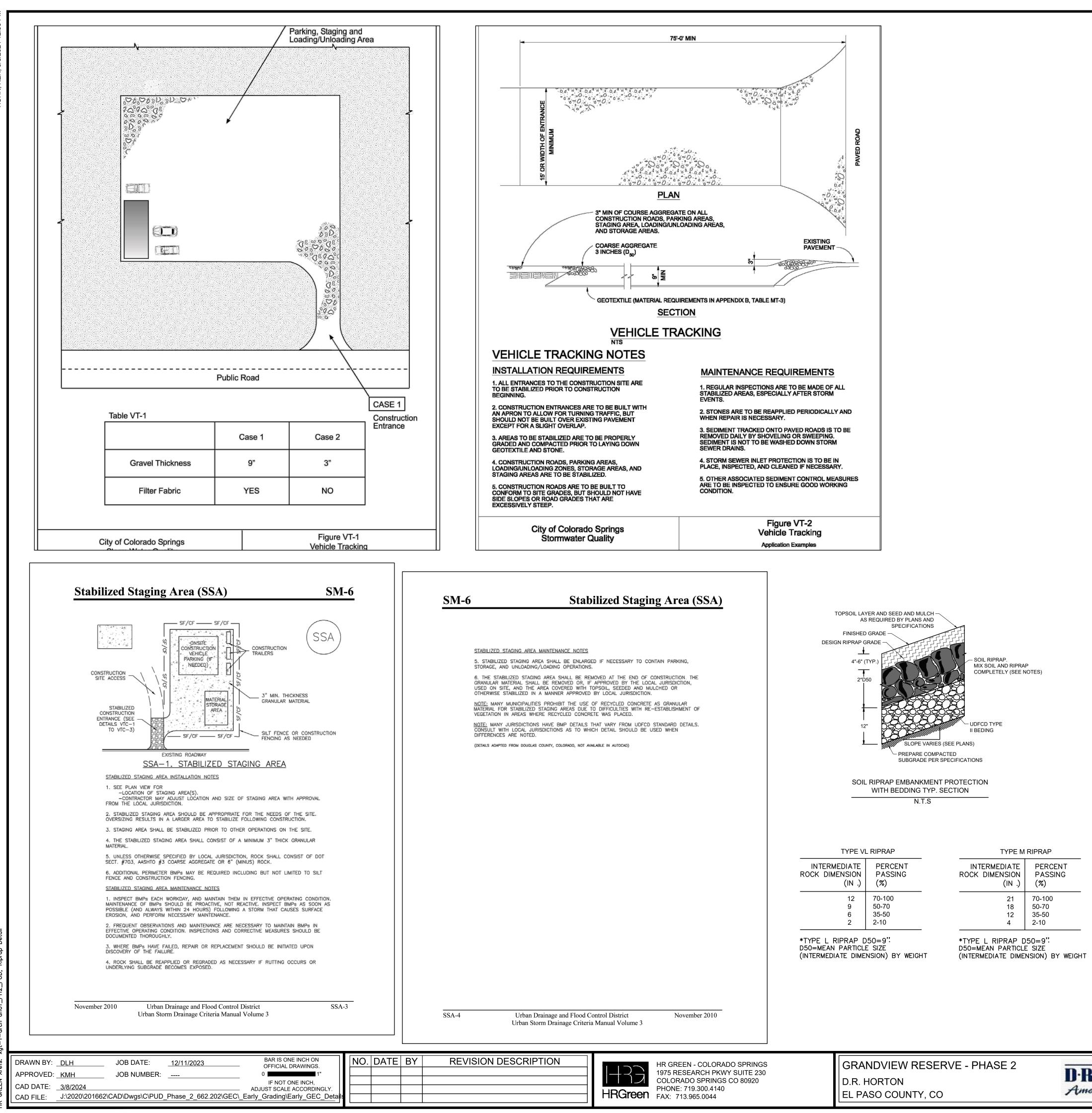






CRIPTION	HR GREEN - COLORADO SPRINGS 1975 RESEARCH PKWY SUITE 230 COLORADO SPRINGS CO 80920 PHONE: 719.300.4140	GRANDVIEW RESERVE - PHASE 2 D.R. HORTON	D·R·
	HRGreen FAX: 713.965.0044	EL PASO COUNTY, CO	Ameri







# NOT FOR CONSTRUCTION LAND USE REVIEW FILE NO: PUDSP-23-006

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

INTERMEDIATE	PERCENT
ROCK DIMENSION	PASSING
(IN .)	(%)
41	70-100
33	50-70
24	35-50
9	2-10

TYPE VH RIPRAP

LEDGE ROCK PROCEDURE A). ROCK HAVING A MINIMUM SPECIFIC GRAVITY OF 2.65 IS PREFERRED; 8. HOWEVER, IN NO CASE SHOULD ROCK HAVE A SPECIFIC GRAVITY LESS THAN 2.50.

TYPE H RIPRAP

PERCENT

PASSING

(%)

70-100

50-70

35-50

2-10

INTERMEDIATE

(IN .)

30

24

18

(INTERMEDIATE DIMENSION) BY WEIGHT

\*TYPE L RIPRAP D50=9".

D50=MEAN PARTICLE SIZE

ROCK DIMENSION

- AVOIDED. 7. THE ROCK SHOULD SUSTAIN A LOSS OF NOT MORE THAN 40% AFTER 500 REVOLUTIONS IN AN ABRASION TEST (LOS ANGELES MACHINEASTM C-535-69) AND SHOULD SUSTAIN A LOSS OF NOT MORE THAN 10% AFTER 12 CYCLES OF FREEZING AND THAWING (AASHTO TEST 103 FOR
- FROM CRACKS, OVERBURDEN, SHALE, AND ORGANIC MATTER. NEITHER BREADTH NOR THICKNESS OF A SINGLE STONE SHOULD BE 6. LESS THAN ONE-THIRD ITS LENGTH, AND ROUNDED STONE SHOULD BE
- 4. CRIMP OR TACKIFY MULCH OR USE APPROVED HYDROMULCH AS CALLED FOR IN THE PLANS AND SPECIFICATIONS. 5. ROCK SHALL BE HARD, DURABLE, ANGULAR IN SHAPE, AND FREE
- SOIL BY VOLUME PRIOR TO PLACEMENT. 3. PLACE STONE-SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.
- SITE PLAN ACTUAL LOCATION AND LIMITS. MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED
- **RIPRAP NOTES.** SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS REFER TO THE

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

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

TYPE L RIPRAP