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 6TH 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 6TH 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 6TH 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 TO A POINT ON CURVE; THENCE ON THE ARC OF A CURVE TO THE RIGHT WHOSE CENTER BEARS N14°14'45"W, HAVING A DELTA OF 16°16'48", A RADIUS OF 540.00 FEET A DISTANCE OF 153.43 FEET TO A POINT ON CURVE; THENCE S02°02'03"W A DISTANCE OF 268.88 FEET TO A POINT ON CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT WHOSE CENTER BEARS \$01°20'57"E, HAVING A DELTA OF 71°23'20", A RADIUS OF 60.00 FEET A DISTANCE OF 74.76 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 FOUR (4) COURSES:

- 1. N49°18'05"W A DISTANCE OF 309.26 FEET TO A POINT OF CURVE:
- 2. 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 3. N05°51'25"E A DISTANCE OF 481.83 FEET TO A POINT OF CURVE;
- 4. 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:

THENCE N05°25'39"W A DISTANCE OF 267.05 FEET TO A POINT OF CURVE; ON THE ARC OF A CURVE TO THE RIGHT HAVING A DELTA OF 16°31'03", A RADIUS OF 560.00 FEET, A DISTANCE OF 161.44 FEET TO A POINT OF TANGENT; THENCE N11°05'24"E A DISTANCE OF 97.09 FEET; THENCE N78°54'36"W A DISTANCE OF 20.13 FEET; THENCE 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 2,988,865 SQUARE FEET OR 68.615 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 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 THESE EARLY GRADING AND CONTROL PLANS AND
- SHALL BE APPROVED PRIOR TO THE PLATTING OF ANY LOTS CURRENTLY LOCATED WITHIN FLOODPLAIN BOUNDARIES.
- 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).

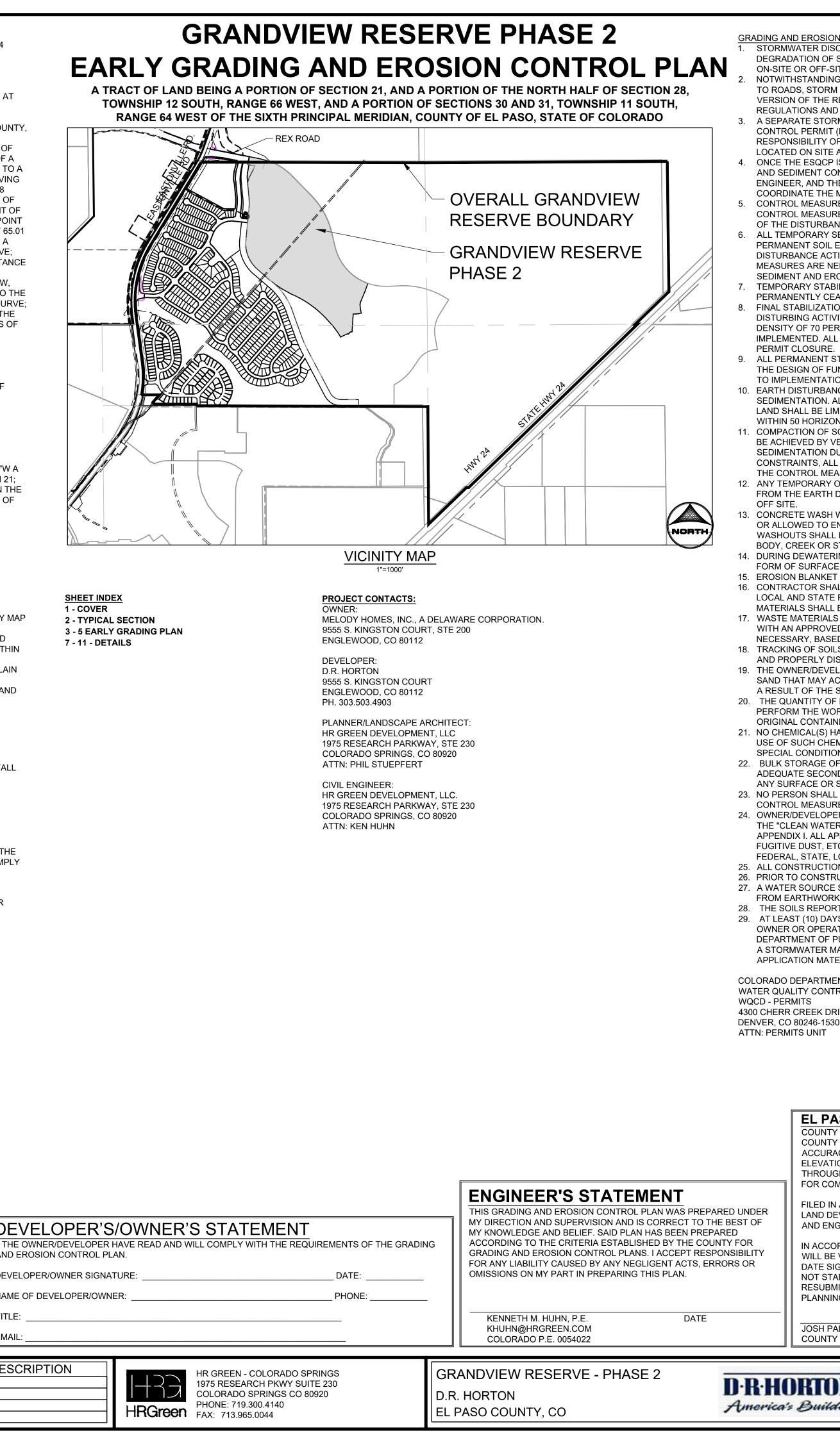
UPPER BLACK SQUIRREL CREEK GROUNDWATER MANAGEMENT DISTRICT NOTE:

THE UPPER BLACK SQUIRREL CREEK (UBSC) GROUNDWATER MANAGEMENT DISTRICT REQUIRES THAT ANY GROUNDWATER DISCHARGED TO THE SURFACE OR INTO AN UNDERDRAIN SYSTEM MUST BE INFILTRATED BACK INTO THE GROUND. IT IS THE DEVELOPER'S RESPONSIBILITY TO COMPLY WITH THE UBSC DISTRICT REQUIREMENTS.

APPROVED CLOMR NOTE

REFER TO APPROVED CLOMR (CASE #24-08-0102R) ATTACHED TO GRANDVIEW RESERVE PHASE 3 EARLY GRADING (INITIAL GEC) STORMWATER MANAGEMENT PLAN (SWMP), PREPARED BY HR GREEN, DATED OCTOBER 2024.

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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.

3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO 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

6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATION CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN. 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

10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES HALL BE DESIGNED. CONSTRUCTED. AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED. LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED 11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OF WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL ARES DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S)

12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE

13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM

14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE. 15. EROSION BLANKET OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.

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

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

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

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

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

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

22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRED ADEQUATE SECONDARY PROTECTION TO CONTAIN AL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES. 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT

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

FEDERAL, STATE, LOCAL OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY. 25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.

26. PRIOR TO CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.

27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

28. THE SOILS REPORT FOR THE SITE HAS BEEN PREPARED BY CTL THOMPSON AND SHALL BE CONSIDERED A PART OF THESE PLANS. 29. AT LEAST (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL DIVISION WQCD - PERMITS

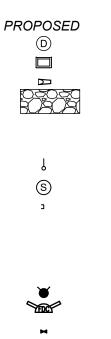
4300 CHERR CREEK DRIVE SOUTH

ATTN: PERMITS UNIT

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_	JOSH PALMER, P.E. COUNTY ENGINEER/EC	DATE LAND USE REVIEW FILI	E NO: <u>PUDSP</u>	-23-006
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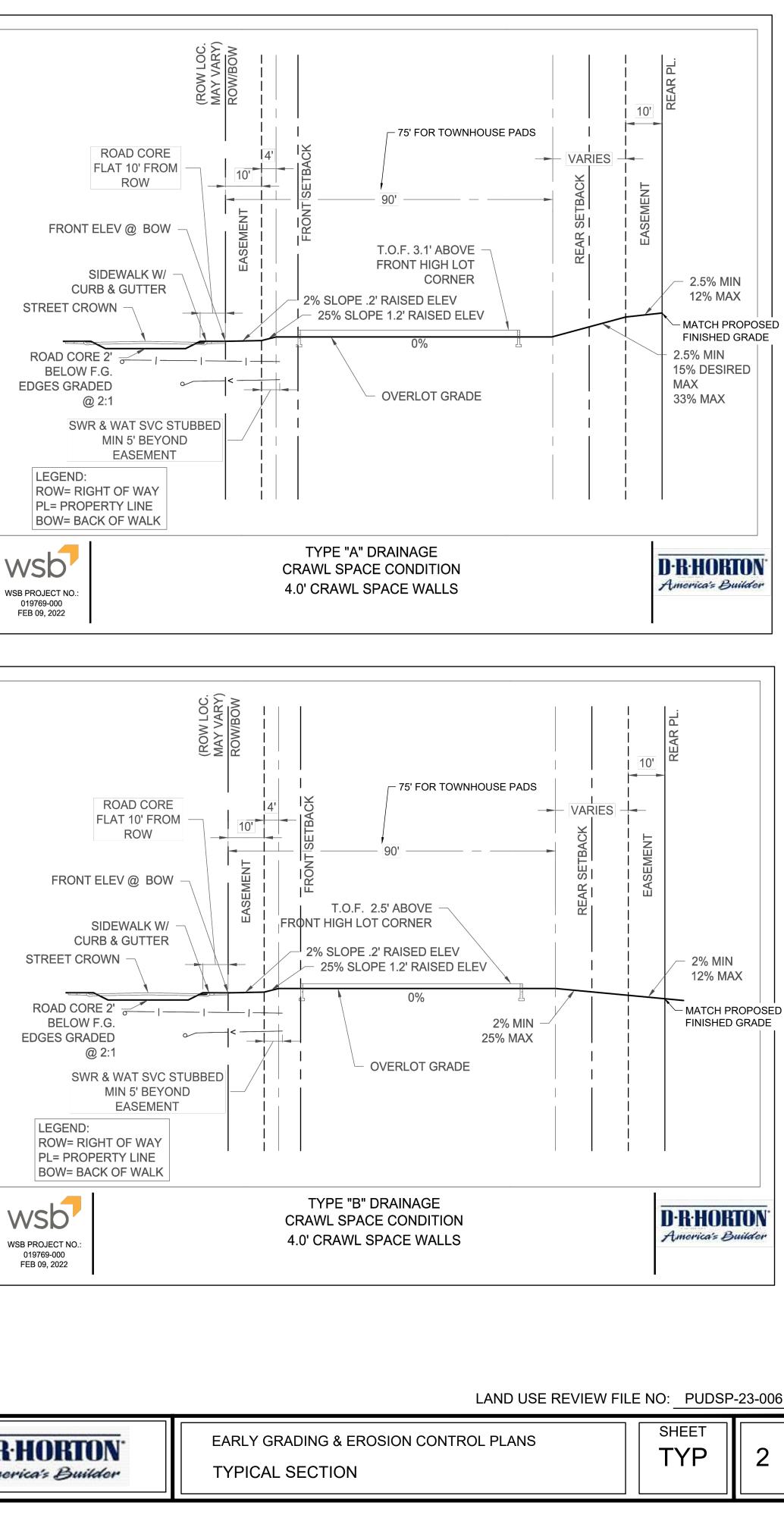
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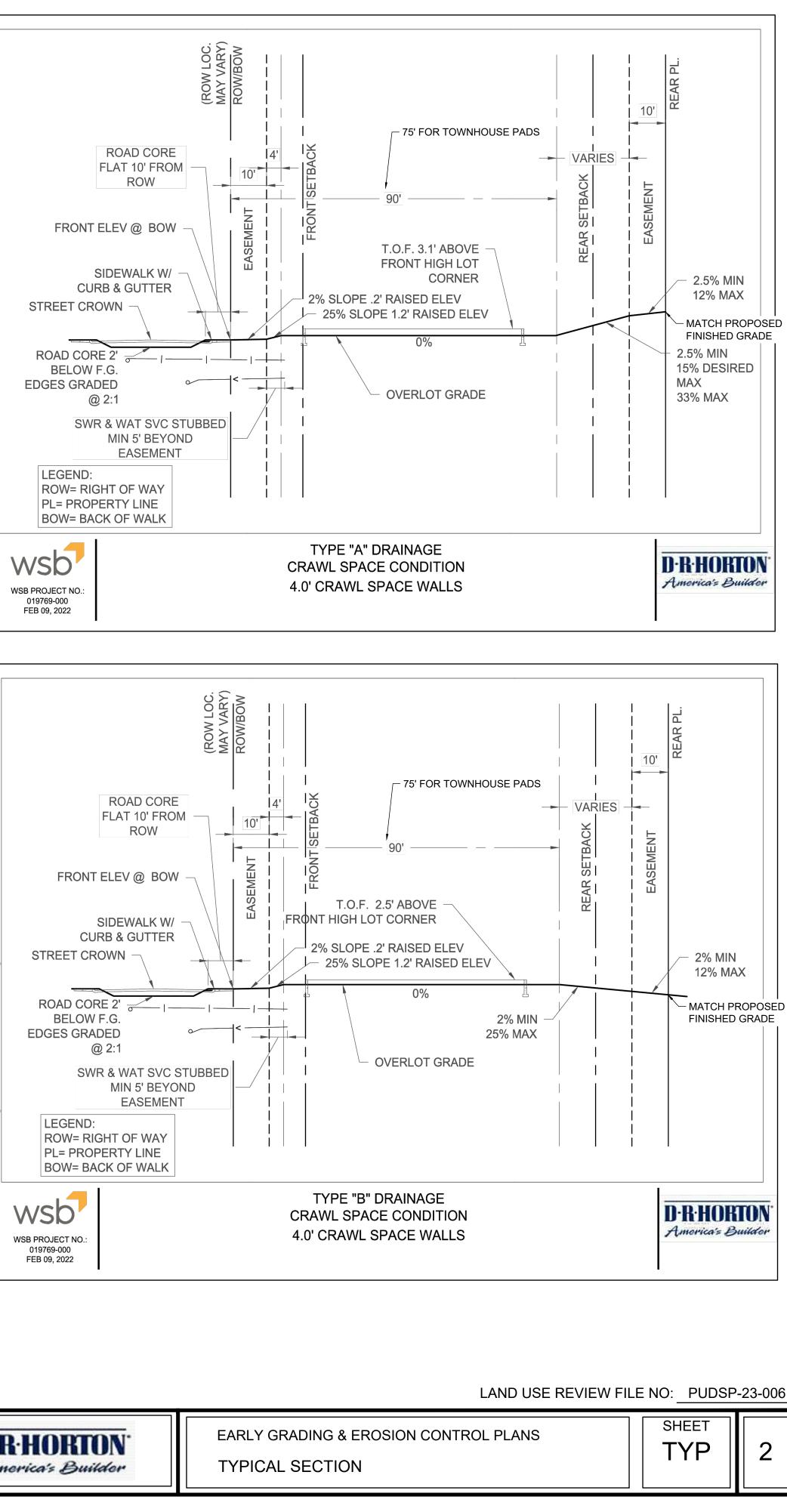
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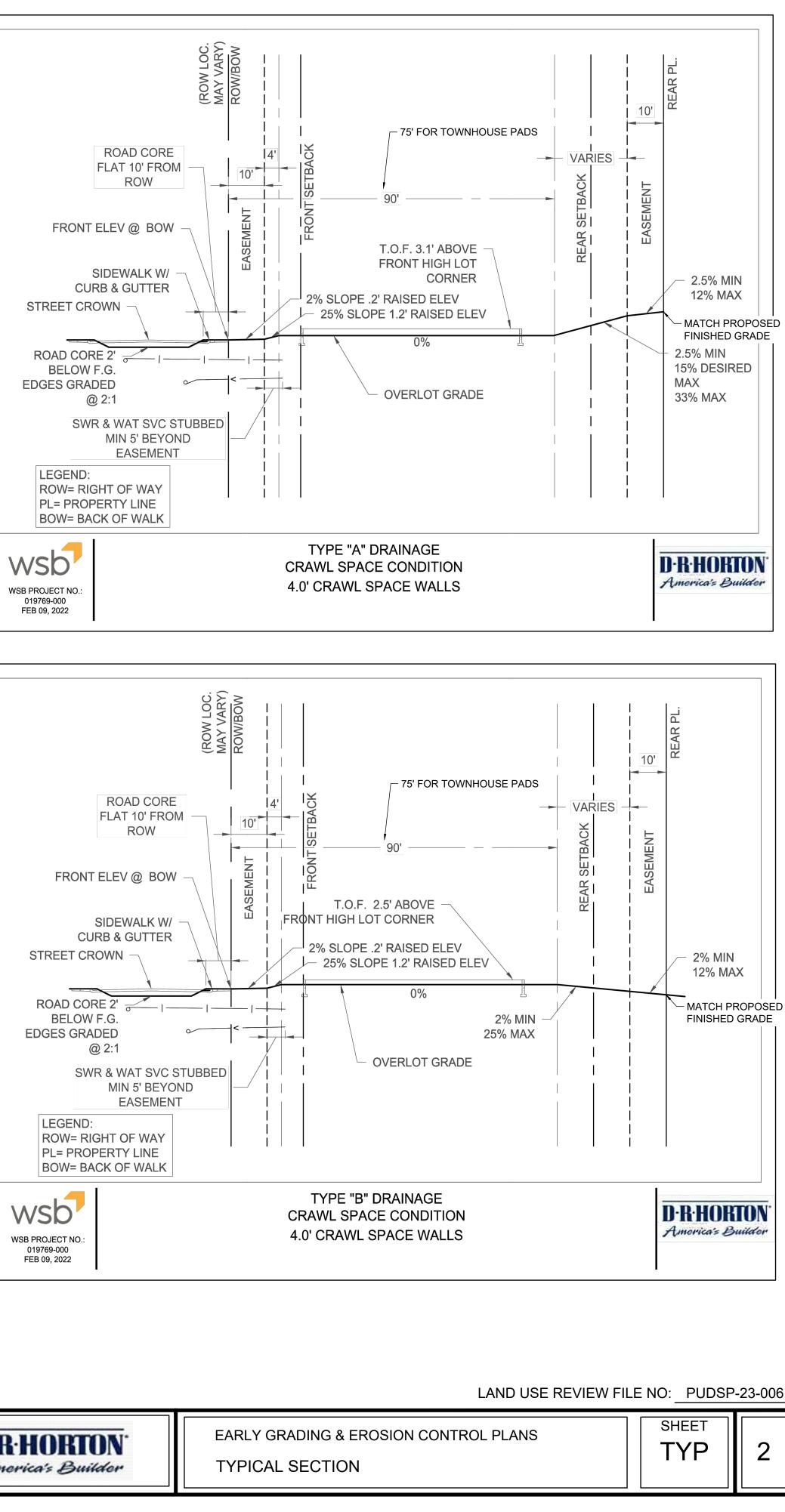
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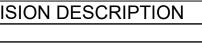
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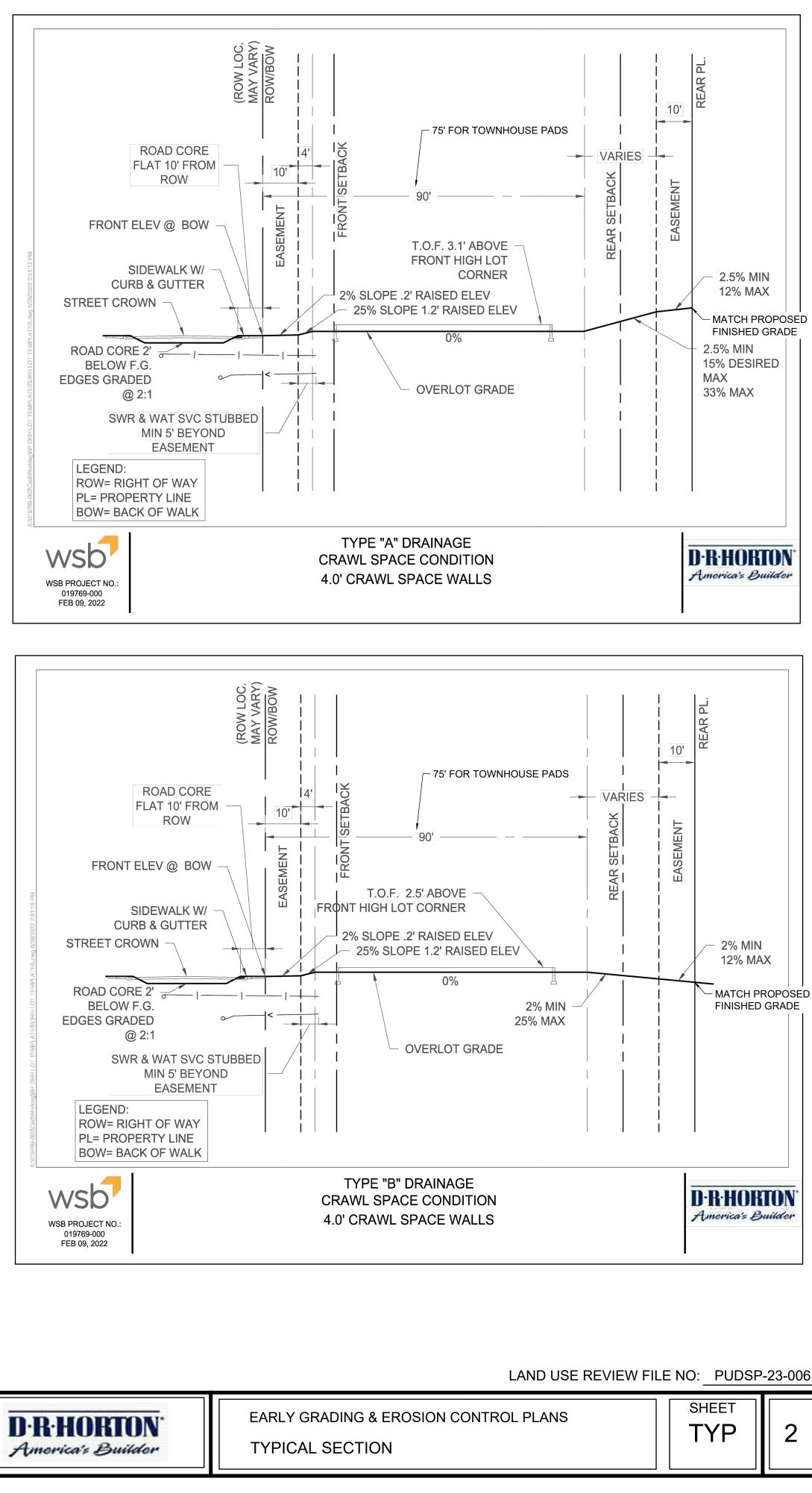


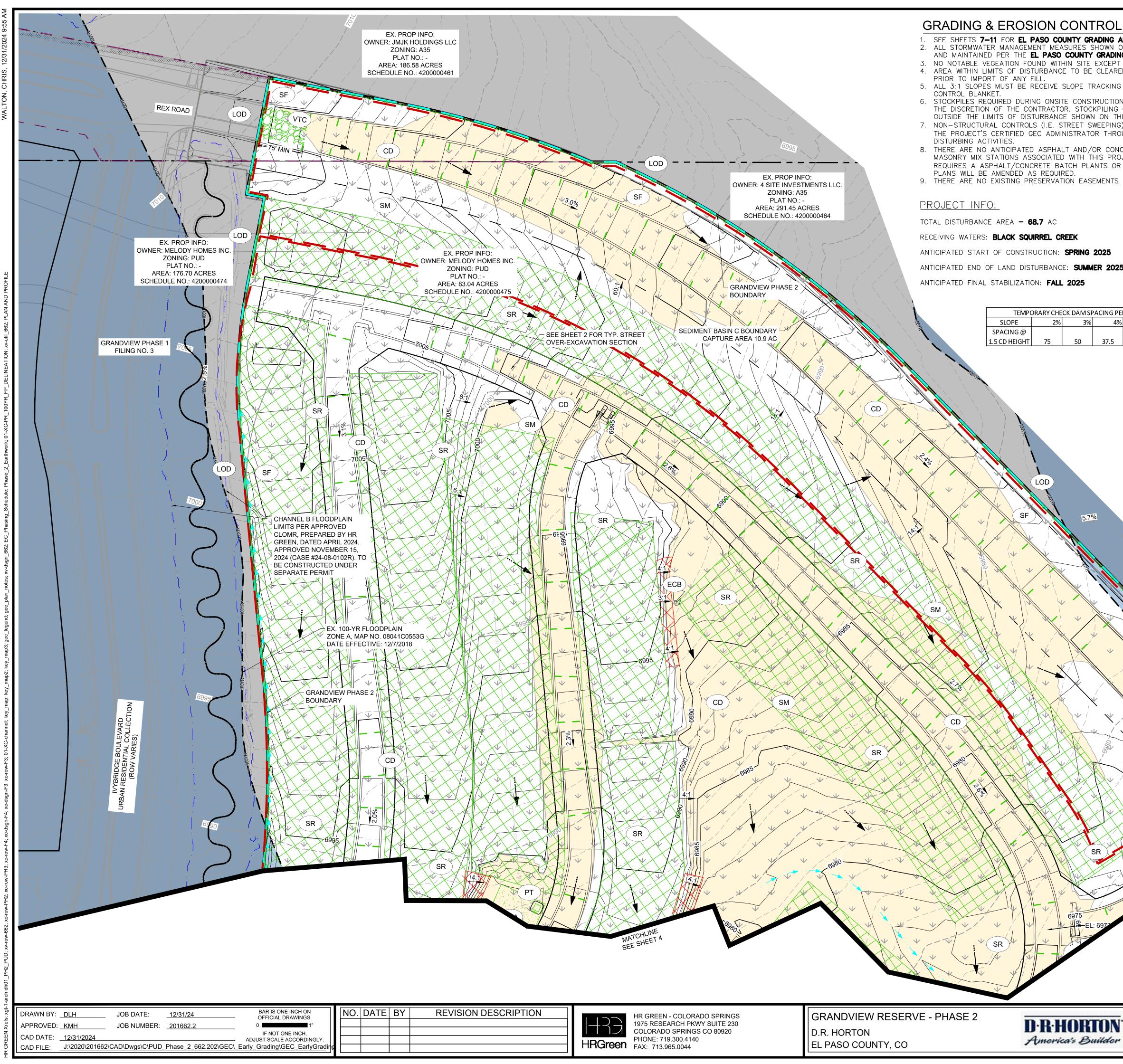




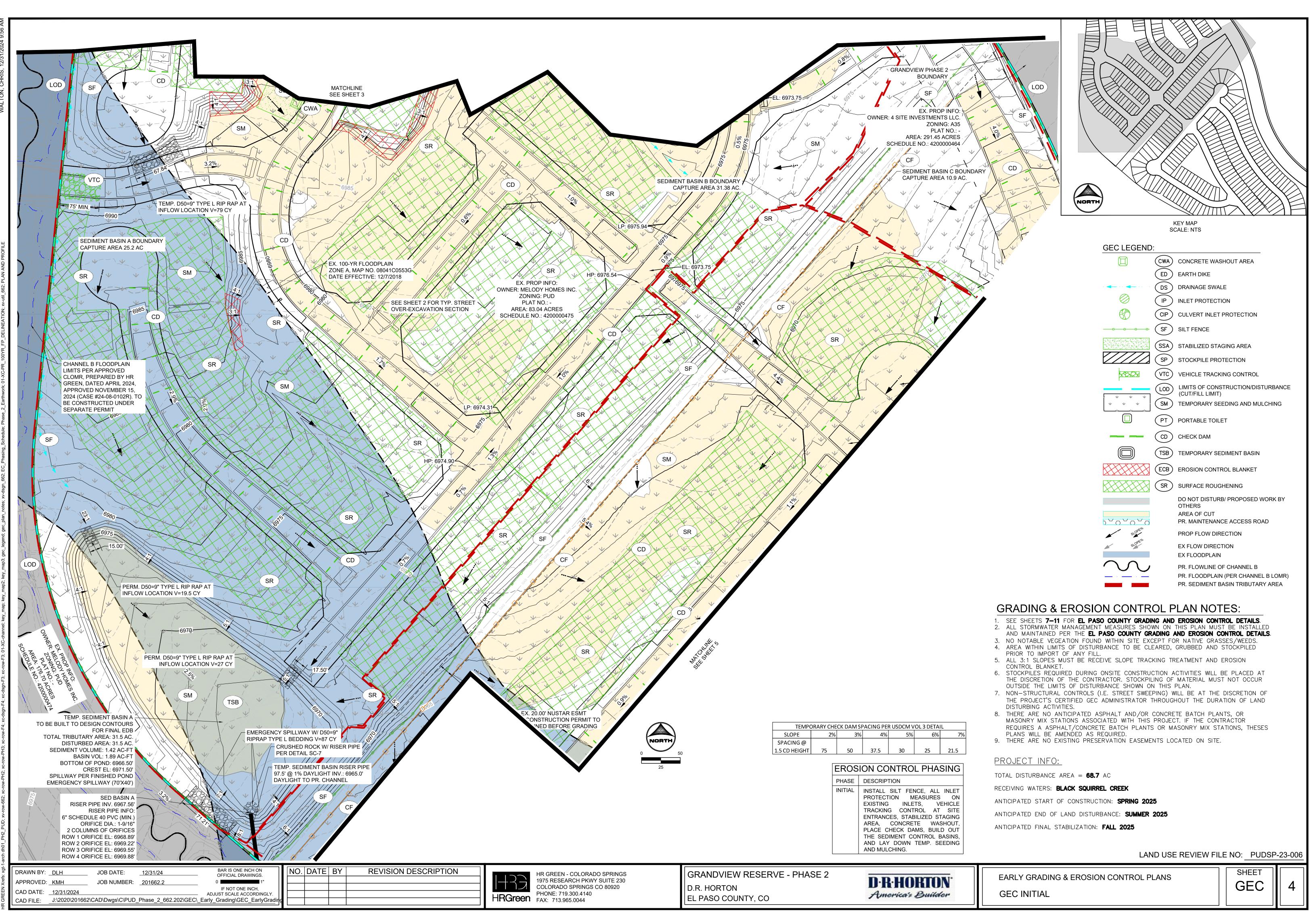
HR GREEN - COLORADO SPRINGS 1975 RESEARCH PKWY SUITE 230 COLORADO SPRINGS CO 80920 PHONE: 719.300.4140 FAX: 713.965.0044

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



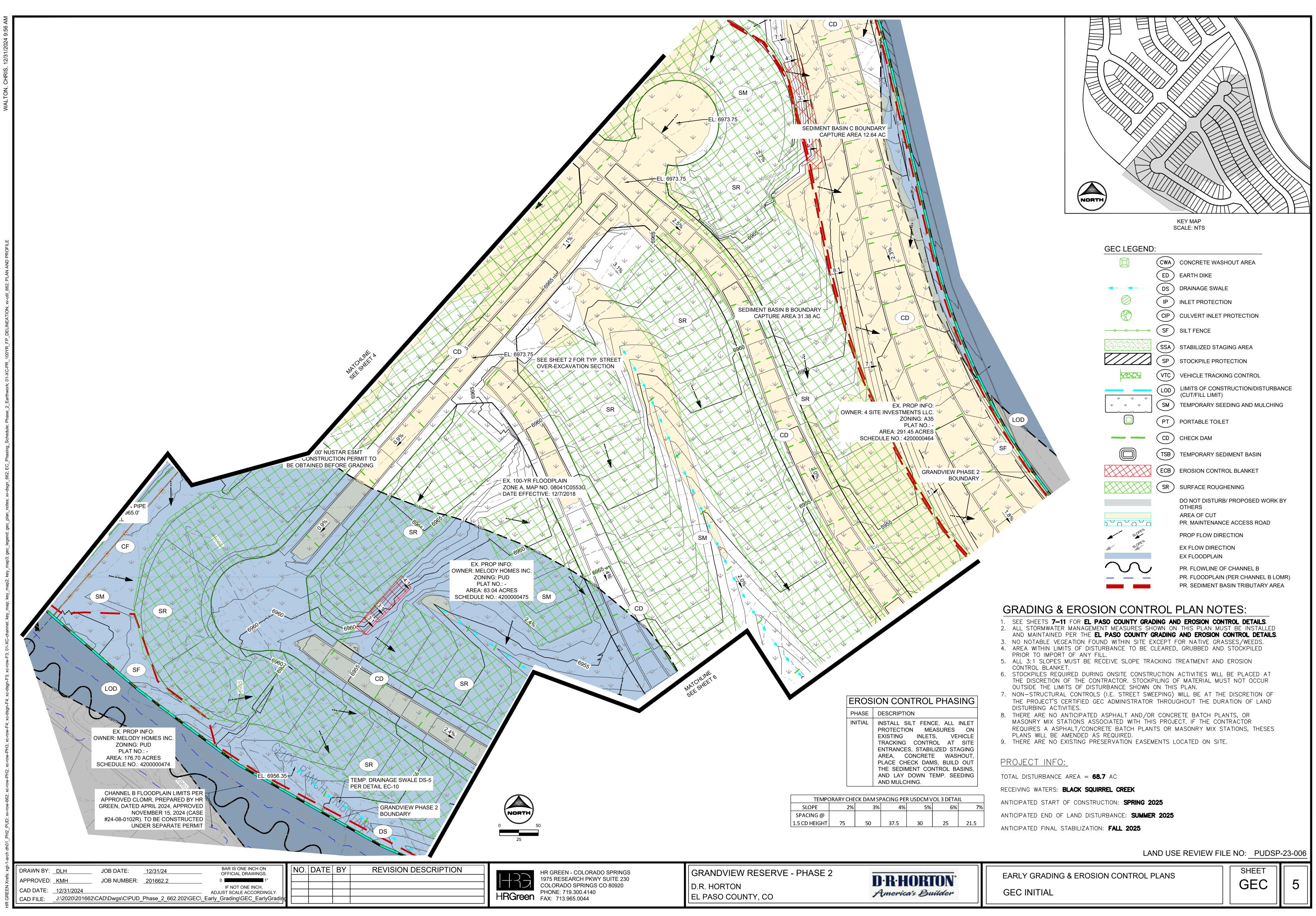


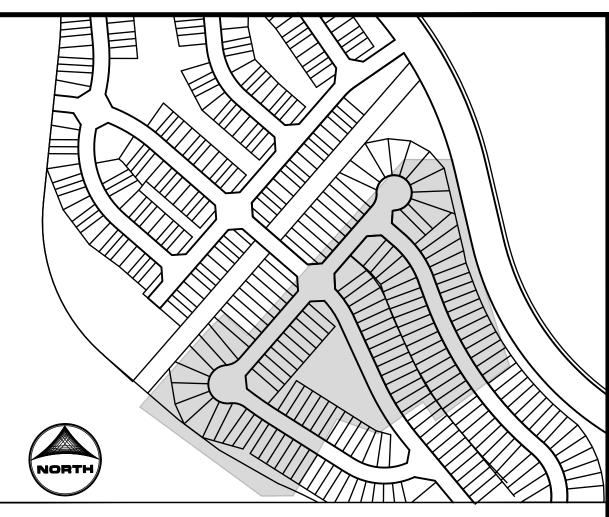
N CONTROL PLAN NOTES:	
COUNTY GRADING AND EROSION CONTROL DETAILS.	
MEASURES SHOWN ON THIS PLAN MUST BE INSTALLED ASO COUNTY GRADING AND EROSION CONTROL DETAILS.	
WITHIN SITE EXCEPT FOR NATIVE GRASSES/WEEDS. ANCE TO BE CLEARED, GRUBBED AND STOCKPILED	
VE SLOPE TRACKING TREATMENT AND EROSION	
NSITE CONSTRUCTION ACTIVITIES WILL BE PLACED AT	目目目目的人
ACTOR. STOCKPILING OF MATERIAL MUST NOT OCCUR ANCE SHOWN ON THIS PLAN.	目目目目目目
E. STREET SWEEPING) WILL BE AT THE DISCRETION OF DMINISTRATOR THROUGHOUT THE DURATION OF LAND	
PHALT AND/OR CONCRETE BATCH PLANTS, OR	$\square \subseteq \square \subseteq$
TED WITH THIS PROJECT. IF THE CONTRACTOR BATCH PLANTS OR MASONRY MIX STATIONS, THESES	
QUIRED. VATION EASEMENTS LOCATED ON SITE.	
	$\mathbf{A} \forall \mathbf{A} \forall \mathbf$
_ CREEK	
DN: SPRING 2025	KEY MAP SCALE: NTS
ANCE: SUMMER 2025	
ALL 2025	GEC LEGEND:
	CWA) CONCRETE WASHOUT AREA
CHECK DAM SPACING PER USDCM VOL 3 DETAIL 2% 3% 4% 5% 6% 7%	ED EARTH DIKE
50 37.5 30 25 21.5	
	SSA STABILIZED STAGING AREA
	SP STOCKPILE PROTECTION
	VTC VEHICLE TRACKING CONTROL
	LIMITS OF CONSTRUCTION/DISTURBANCE (CUT/FILL LIMIT)
	SM TEMPORARY SEEDING AND MULCHING
5.7%	CD CHECK DAM
	TSB TEMPORARY SEDIMENT BASIN
	ECB EROSION CONTROL BLANKET
	SR) SURFACE ROUGHENING
	DO NOT DISTURB/ PROPOSED WORK BY
	OTHERS AREA OF CUT
	PROP FLOW DIRECTION
	EX FLOW DIRECTION EX FLOODPLAIN
	PR. FLOWLINE OF CHANNEL B
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$ \begin{array}{c} \downarrow \\ \downarrow $	
	TOOYR
	V III
	EROSION CONTROL PHASING PHASE DESCRIPTION
SR SR	INITIAL INSTALL SILT FENCE, ALL INLET
V V	PROTECTION MEASURES ON EXISTING INLETS, VEHICLE TRACKING CONTROL AT SITE
V V 03%	TRACKING CONTROL AT SITE ENTRANCES, STABILIZED STAGING AREA CONCRETE WASHOUT
X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	AREA, CONCRETE WASHOUT, PLACE CHECK DAMS, BUILD OUT THE SEDIMENT CONTROL BASINS,
6975 V	AND LAY DOWN TEMP. SEEDING AND MULCHING.
EL: 6972	
NORTH	EARTHWORK CALCULATIONS
	NET CUT (CY) NET FILL (CY) TOTAL (CY) 87,800 482,700 95,000 (FILL)
25	87,800 183,700 95,900 (FILL)
	LAND USE REVIEW FILE NO: PUDSP-23-006
HORTON EARLY GRADING & ER	
GEC INITIAL	
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	CWA	CONCRETE WASHOUT AREA
	ED	EARTH DIKE
• • • • •	DS	DRAINAGE SWALE
\bigcirc	IP	INLET PROTECTION
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ooo	SF	SILT FENCE
	SSA	STABILIZED STAGING AREA
	SP	STOCKPILE PROTECTION
222222	VTC	VEHICLE TRACKING CONTROL
	LOD	LIMITS OF CONSTRUCTION/DISTURBANCE (CUT/FILL LIMIT)
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	PT	PORTABLE TOILET
	CD	CHECK DAM
	TSB	TEMPORARY SEDIMENT BASIN
	ECB	EROSION CONTROL BLANKET
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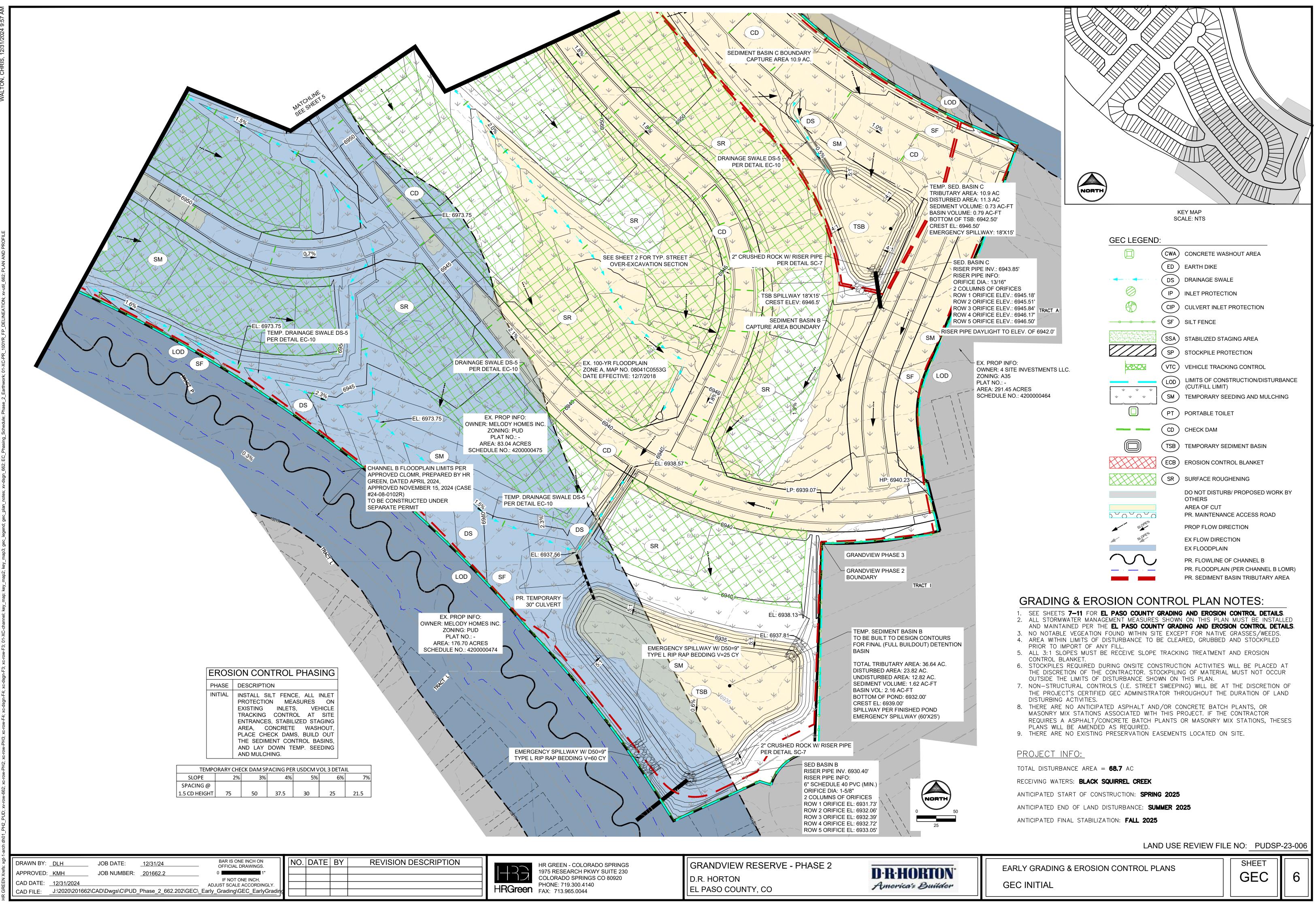
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5%	6%	7%					
30	25	21.5					
FROL PHASING							





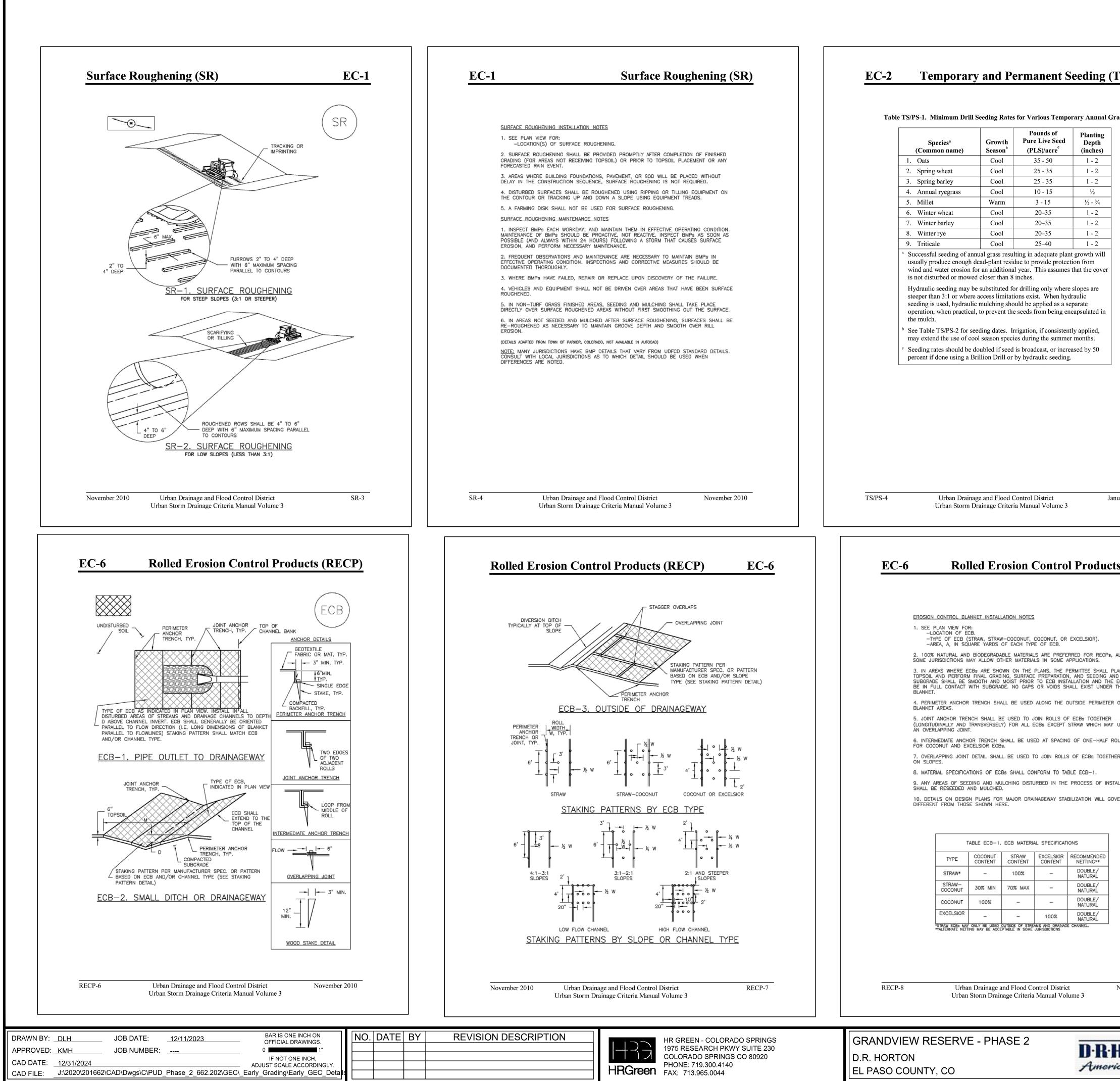
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	SSA	STABILIZED STAGING AREA
	SP	STOCKPILE PROTECTION
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	LOD	LIMITS OF CONSTRUCTION/DISTURBAN (CUT/FILL LIMIT)
	SM	TEMPORARY SEEDING AND MULCHING
	PT	PORTABLE TOILET
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WALTON, CHRIS, 12/31/2024 9:57 AM

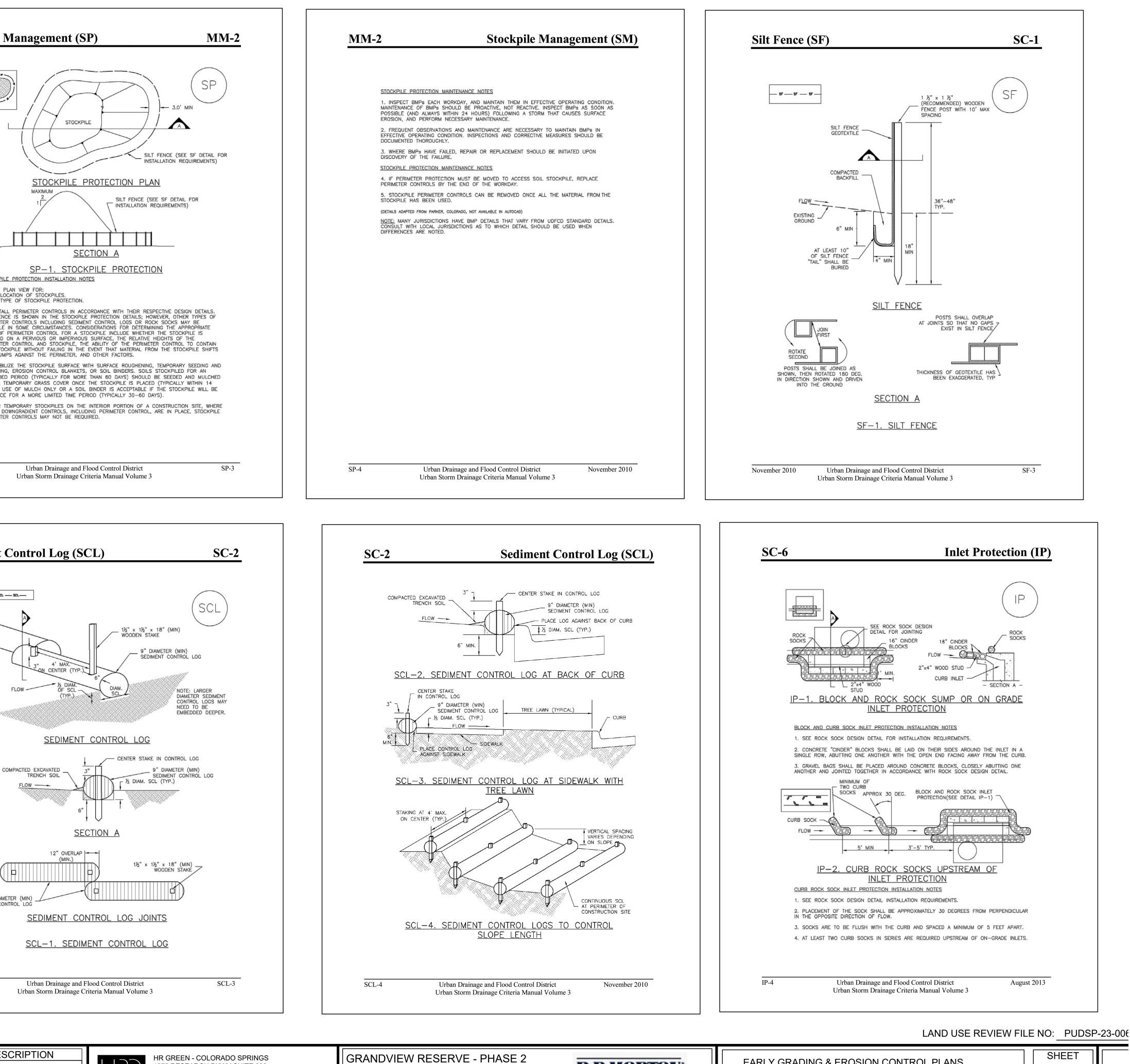


N Xrefs: xgt-1-arch dh01_PH2_PUD; Riprap

		Table TS/PS-2. Seeding Dates for Annual and Perennial Grasses								
				l Grasses	Perennia	l Grasses				
		Seeding Dates		table reference 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		•					
		July 16–August 31 September 1–September 30		6, 7, 8, 9						
		October 1–December 31			✓	✓				
		Mulch Cover seeded areas with mulch or of vegetation. Anchor mulch by o Volume 2 <i>Revegetation</i> Chapter a guidance.	crimping, netting c	or use of a non-to	xic tackifier. S	ee the USDCM				
		Maintenance and Ren Monitor and observe seeded areas and mulch these areas, as needed.		of poor growth o	areas that fail	o germinate. Reseed				
		If a temporary annual seed was pl there will be no further work in th the annual mix needs time to matu perennial mix, it should be seeded temporary annual mix was seeded heads should be removed and then	e area. To minim ure and die before l during the approp l. Alternatively, if n the area seeded v	ize competition b seeding the peren priate seeding dat this timeline is r with the perennia	etween annual mial mix. To in set the second y tot feasible, the mix.	and perennial species, herease success of the ear after the annual mix seed				
		An area that has been permanently season if irrigated and within thre the site that fail to germinate or re Seeded areas may require irrigation also be necessary. Protect seeded areas from constru	e growing seasons main bare after th on, particularly dur	without irrigation e first growing se ring extended dry	n in Ĉolorado. cason. 7 periods. Targo	Reseed portions of				
		Innung 2021 Lieben	Duraine can di Ela	ed Control Distri	at	TS/PS-5				
			Drainage and Flo orm Drainage Crite			15/P5-5				
<u>P)</u>		Rolled Erosion Co	ntrol Proc	lucts (RI	ECP)	EC-6				
<u>)</u>		EROSION CONTROL BLANKE EROSION CONTROL BLANKE 1. INSPECT BMPS EACH W MAINTENANCE OF BMPS SH POSSIBLE (AND ALWAYS WI EROSION, AND PERFORM N 2. FREQUENT OBSERVATION DEFECTIVE OPERATING CON DOCUMENTED THOROUGHLY 3. WHERE BMPS HAVE FAIL DISCOVERY OF THE FAILUR 4. ECBS SHALL BE LEFT II REMOVED BY THE LOCAL J 5. ANY ECB PULLED OUT, REINSTALLED, ANY SUBGRA A VOID UNDER THE BLANK RESEEDED AND MULCHED J NOTE: MANY JURISDICTIONS CONSULT WITH LOCAL JURI DIFFERENCES ARE NOTED. (DETAILS ADAPTED FROM DOUGLAS	T MAINTENANCE NO ORKDAY, AND MAINT IOULD BE PROACTIVI THIN 24 HOURS) FO IECESSARY MAINTEN/ IS AND MAINTENANC DITION. INSPECTIONS	TES AIN THEM IN EFFE E, NOT REACTIVE. DLLOWING A STORMANCE. E ARE NECESSARY S AND CORRECTIVE PLACEMENT SHOUL JALLY BIODEGRADE, SE DAMAGED SHAL HE GEOTEXTILE TH N DEVOID OF GRAS STALLED. S THAT VARY FROM HICH DETAIL SHOU	CTIVE OPERATING INSPECT BMPs A M THAT CAUSES TO MAINTAIN BM MEASURES SHO D BE INITIATED U , UNLESS REQUE L BE REPAIRED AT HAVE ERODED SS SHALL BE RE I UDFCD STANDAI ILD BE USED WH	CONDITION. S SOON AS SURFACE IPS IN JLD BE IPON STED TO BE TO CREATED PAIRED, RD DETAILS. EN				
<u>P)</u>		EROSION CONTROL BLANKE 1. INSPECT BMPs EACH W MAINTENANCE OF BMPs SH POSSIBLE (AND ALWAYS WI EROSION, AND PERFORM N 2. FREQUENT OBSERVATION EFFECTIVE OPERATING CON DOCUMENTED THOROUGHLY 3. WHERE BMPS HAVE FAIL DISCOVERY OF THE FAILUR 4. ECBS SHALL BE LEFT II REMOVED BY THE LOCAL J 5. ANY ECB PULLED OUT, REINSTALLED. ANY SUBGRA A VOID UNDER THE BLANK RESEEDED AND MULCHED J NOTE: MANY JURISDICTIONS CONSULT WITH LOCAL JURI DIFFERENCES ARE NOTED.	T MAINTENANCE NO ORKDAY, AND MAINT IOULD BE PROACTIVI THIN 24 HOURS) FO IECESSARY MAINTEN/ IS AND MAINTENANC DITION. INSPECTIONS	TES AIN THEM IN EFFE E, NOT REACTIVE. DLLOWING A STORMANCE. E ARE NECESSARY S AND CORRECTIVE PLACEMENT SHOUL JALLY BIODEGRADE, SE DAMAGED SHAL HE GEOTEXTILE TH N DEVOID OF GRAS STALLED. S THAT VARY FROM HICH DETAIL SHOU	CTIVE OPERATING INSPECT BMPs A M THAT CAUSES TO MAINTAIN BM MEASURES SHO D BE INITIATED U , UNLESS REQUE L BE REPAIRED AT HAVE ERODED SS SHALL BE RE I UDFCD STANDAI ILD BE USED WH	CONDITION. S SOON AS SURFACE IPS IN JLD BE IPON STED TO BE TO CREATED PAIRED, RD DETAILS. EN				
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	M-1 Concrete Washout Area (CWA)	Sto
	 CWA MAINTENANCE NOTES 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. FREQUENT OBSERVATIONS AND MAINTENANCE. FREQUENT OBSERVATIONS AND MAINTENANCE. FREQUENT OBSERVATIONS AND MAINTENANCE. INTERDED THOROUGHLY. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. WHERE BMPs HAVE FAILED, 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'. 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 PROPERTY. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MUCCH OR OTHERWISE STABILIZED IN A MAINTER 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.	
CWA-	A-4 Urban Drainage and Flood Control District November 2010 Urban Storm Drainage Criteria Manual Volume 3	Nover
<u>SC</u> -	-1 Silt Fence (SF)	Sec
	SILT FENCE INSTALLATION NOTES	
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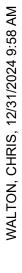
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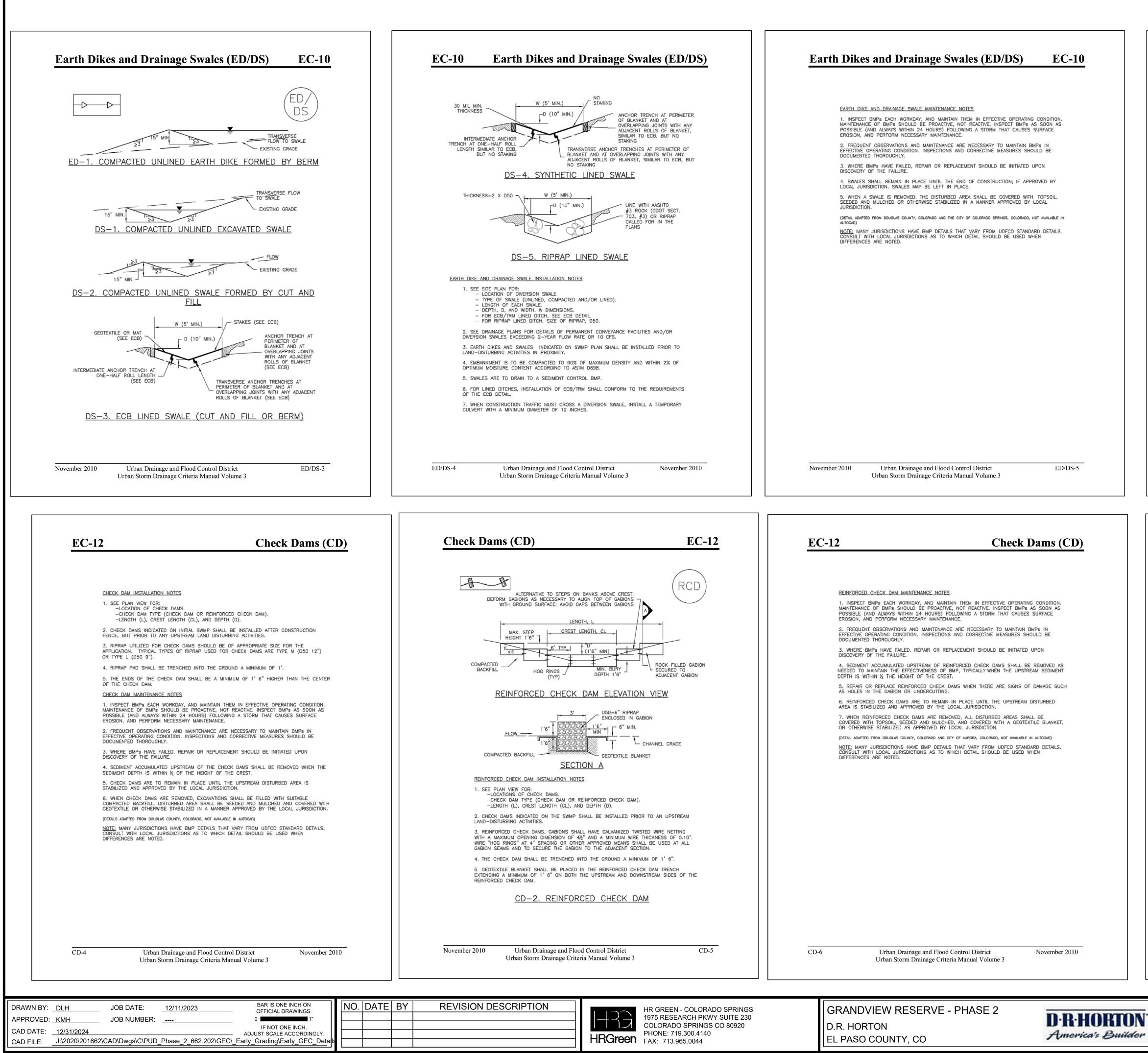


	HR GREEN - COLORADO SPRINGS 1975 RESEARCH PKWY SUITE 230	GRANDVIEW RESERVE -
	COLORADO SPRINGS CO 80920	D.R. HORTON
_	HRGreen PHONE: 719.300.4140 FAX: 713.965.0044	EL PASO COUNTY, CO

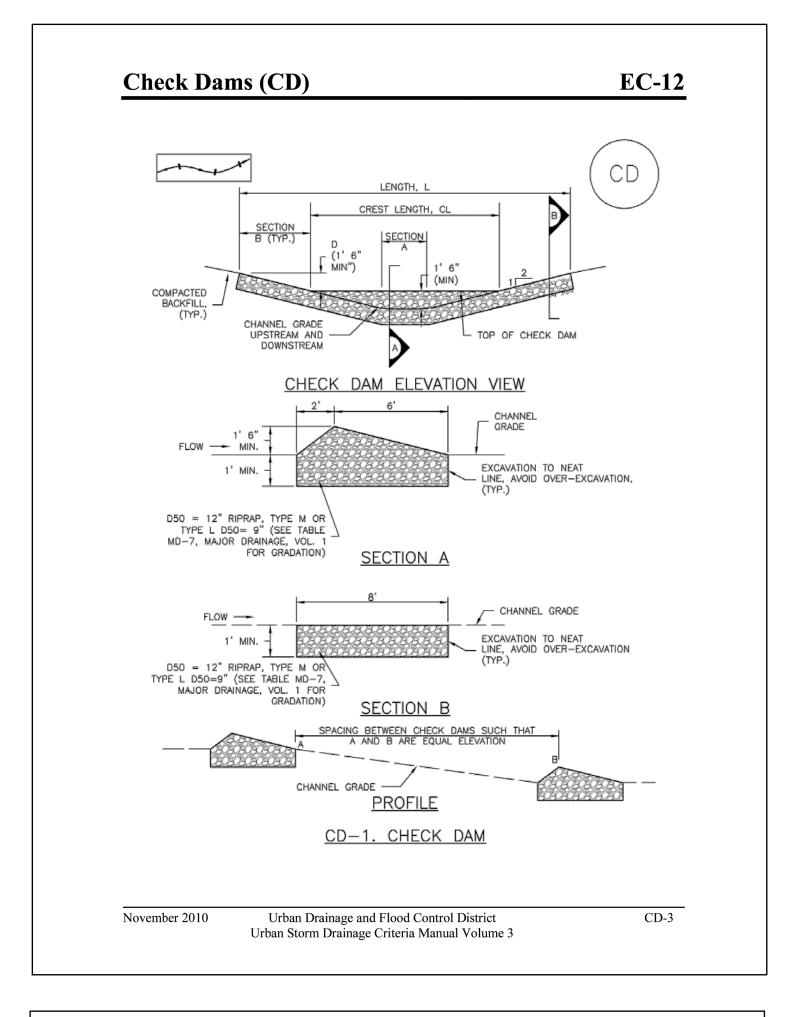


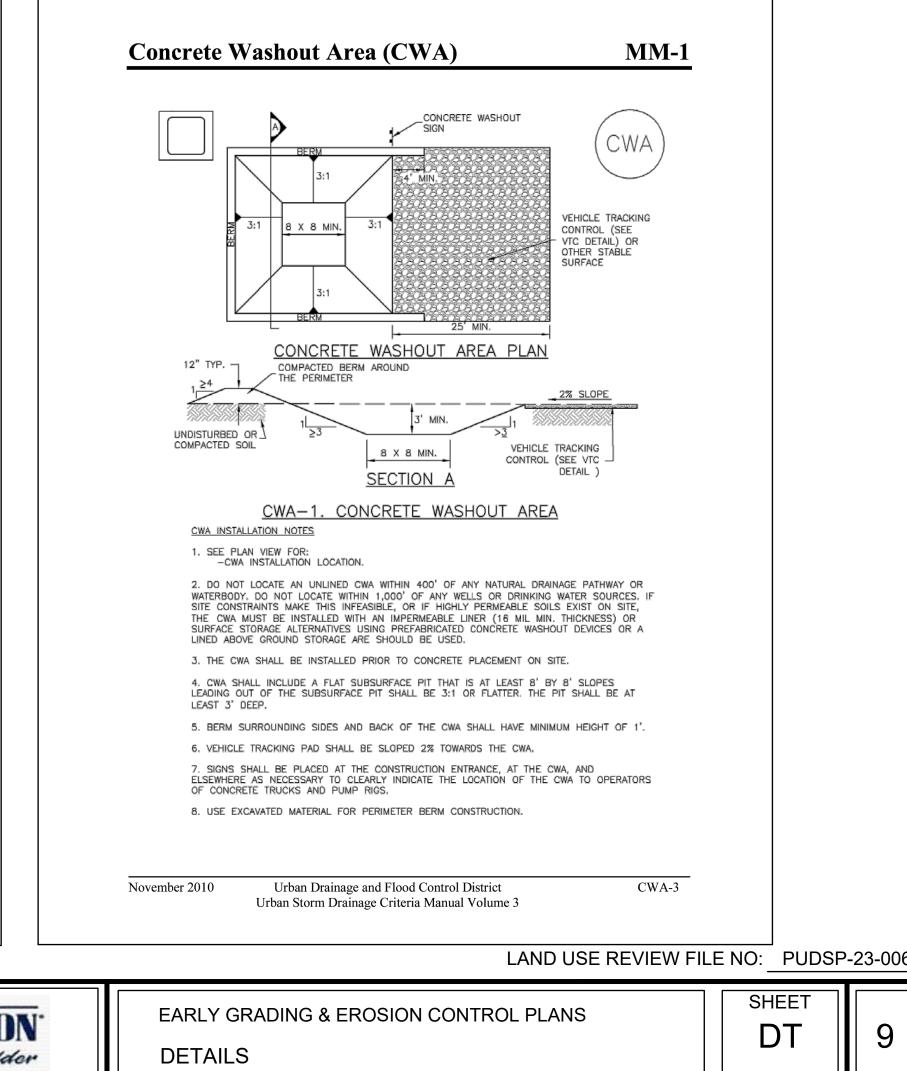
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vilder	DETAILS		

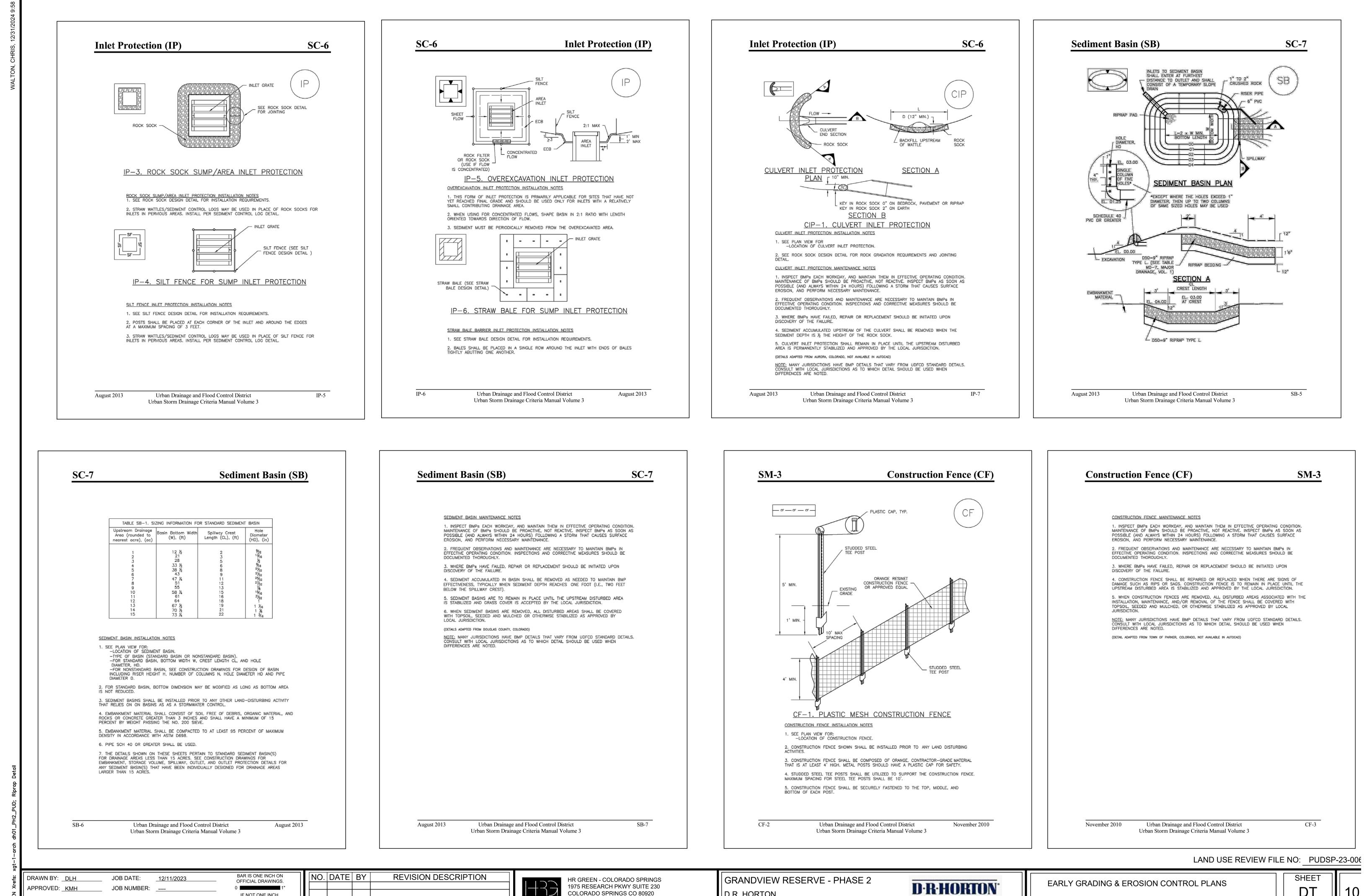


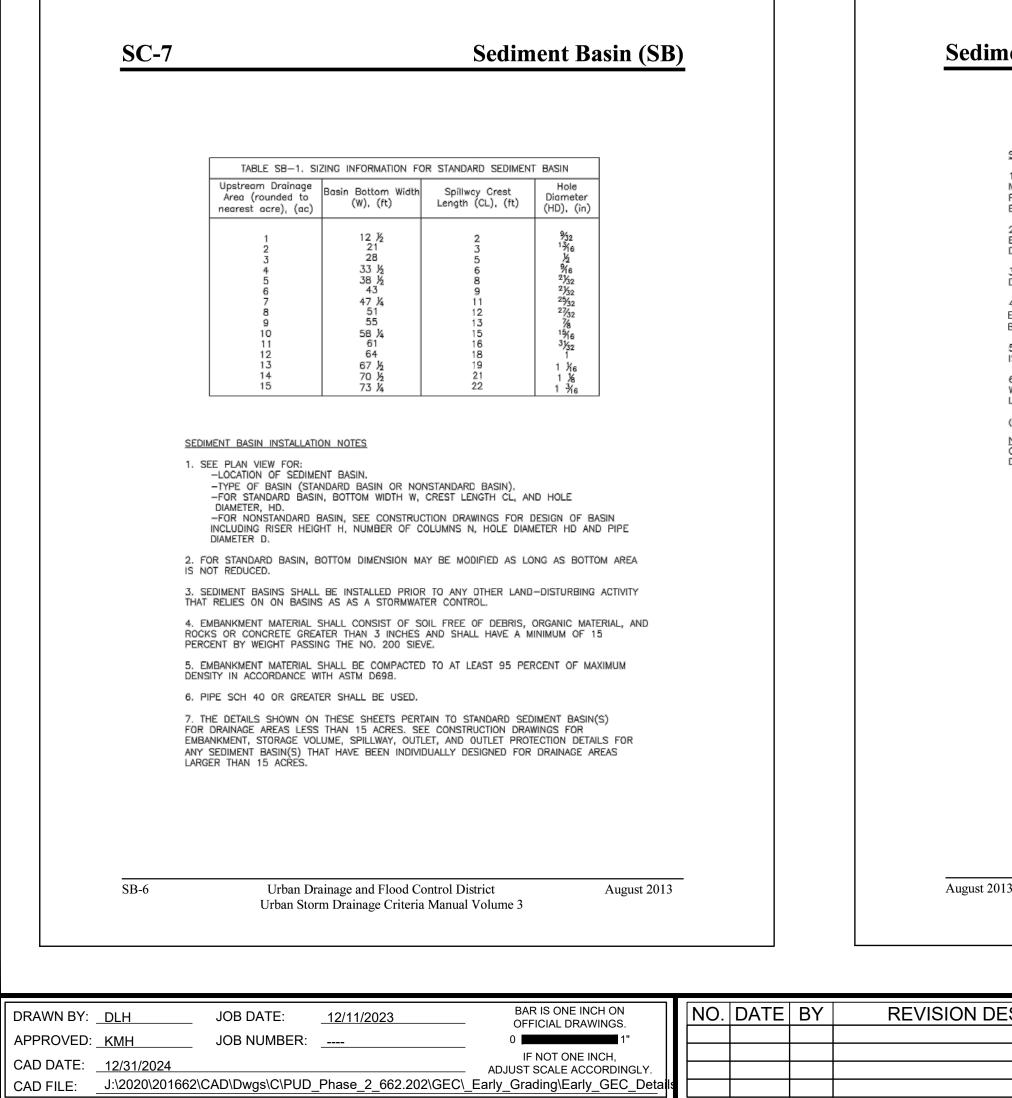


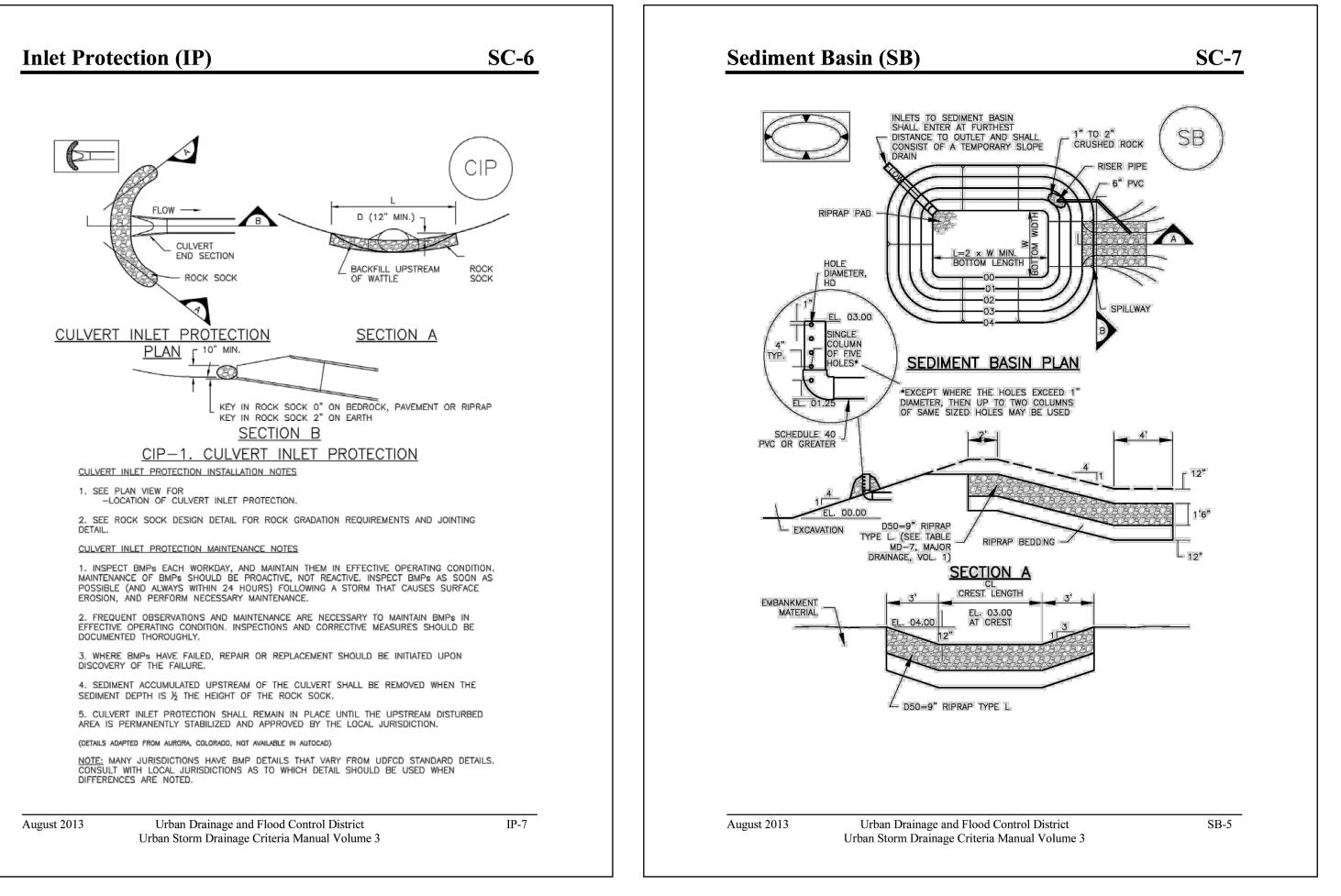
Xrefs: xgt-1-arch dh01_PH2_PUD; Riprap Det





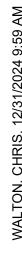


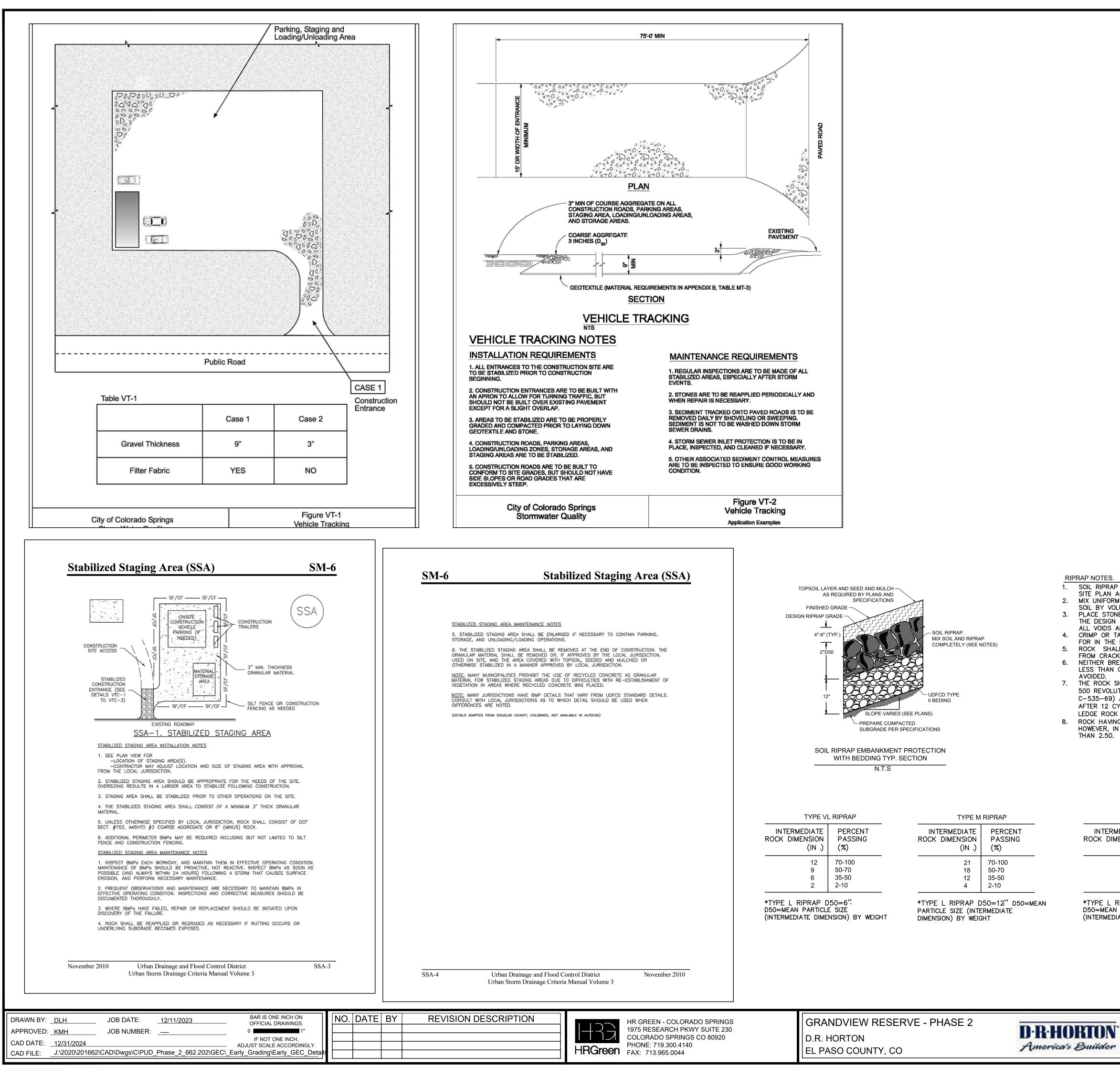




CRIPTION	HR GREEN - COLORADO SPRINGS 1975 RESEARCH PKWY SUITE 230 COLORADO SPRINGS CO 80920 PHONE: 719.300.4140 FAX: 713.965.0044	GRANDVIEW RESERVE - PHASE 2 D.R. HORTON EL PASO COUNTY, CO	D·R·HOR America's Bu
	PHONE: 719.300.4140		

DETAILS	DT	10
EARLY GRADING & EROSION CONTROL PLANS	SHEET	





•	EARLY GRADING & EROSION CONTROL PLANS		
	DETAILS		

LAND USE REVIEW FILE NO: PUDSP-23-006

TYPE H RIPRAP				
INTERMEDIATE	PERCENT			
ROCK DIMENSION	PASSING			
(IN .)	(%)			
30	70-100			
24	50-70			
18	35-50			
6	2-10			

*TYPE L RIPRAP D50=18"

D50=MEAN PARTICLE SIZE

TYPE H RIPRAP			
INTERMEDIATE ROCK DIMENSION (IN .)	PERCENT PASSING (%)		
30	70-100		
24	50-70		
18	35-50		
6	2-10		

TYPE H RIPRAP			
INTERMEDIATE	PERCENT		
ROCK DIMENSION	PASSING		
(IN .)	(%)		
30	70-100		
24	50-70		
18	35-50		
6	2 10		

(INTERMEDIATE DIMENSION) BY WEIGHT

SITE PLAN ACTUAL LOCATION AND LIMITS.

SOIL BY VOLUME PRIOR TO PLACEMENT.

FOR IN THE PLANS AND SPECIFICATIONS.

LEDGE ROCK PROCEDURE A).

MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED

3. PLACE STONE-SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT

4. CRIMP OR TACKIFY MULCH OR USE APPROVED HYDROMULCH AS CALLED

FROM CRACKS, OVERBURDEN, SHALE, AND ORGANIC MATTER.

7. THE ROCK SHOULD SUSTAIN A LOSS OF NOT MORE THAN 40% AFTER

ROCK HAVING A MINIMUM SPECIFIC GRAVITY OF 2.65 IS PREFERRED;

THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE

ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.

5. ROCK SHALL BE HARD, DURABLE, ANGULAR IN SHAPE, AND FREE

NEITHER BREADTH NOR THICKNESS OF A SINGLE STONE SHOULD BE

LESS THAN ONE-THIRD ITS LENGTH, AND ROUNDED STONE SHOULD BE

500 REVOLUTIONS IN AN ABRASION TEST (LOS ANGELES MACHINEASTM

AFTER 12 CYCLES OF FREEZING AND THAWING (AASHTO TEST 103 FOR

HOWEVER, IN NO CASE SHOULD ROCK HAVE A SPECIFIC GRAVITY LESS

C-535-69) AND SHOULD SUSTAIN A LOSS OF NOT MORE THAN 10%

PERCENT PASSING (%)	INTE ROCK [
70-100	
50-70	
35-50	

TYPE VH RIPRAP				
INTERMEDIATE	PERCENT			
CK DIMENSION	PASSING			

(IN .)

41

33

24

(INTERMEDIATE DIMENSION) BY WEIGHT

9

*TYPE L RIPRAP D50=24"

D50=MEAN PARTICLE SIZE

TYPE VH RIPRAP	,

(%)

50-70

35-50

2-10

70-100

*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

RIPRAP NOTES. SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS REFER TO THE

AVOIDED.

THAN 2.50.

2.

6.