EPC STORMWATER REVIEW COMMENTS IN ORANGE BOXES WITH BLACK TEXT

Ammmm

EROSION CONTROL AND GRADING PLAN SUPERSTAR CARWASH MEADOWBROOK PKWY COLORADO SPRINGS, CO 80915

PROJECT TEAM

OWNER SUPER STAR CAR WASH 1830 N 95TH AVE, SUITE 106 PHOENIX, AZ, 85037 CONTACT: TIM VARLEY TEL: 801-651-1748 EMAIL: TVARLEY@SSCWAZ.COM

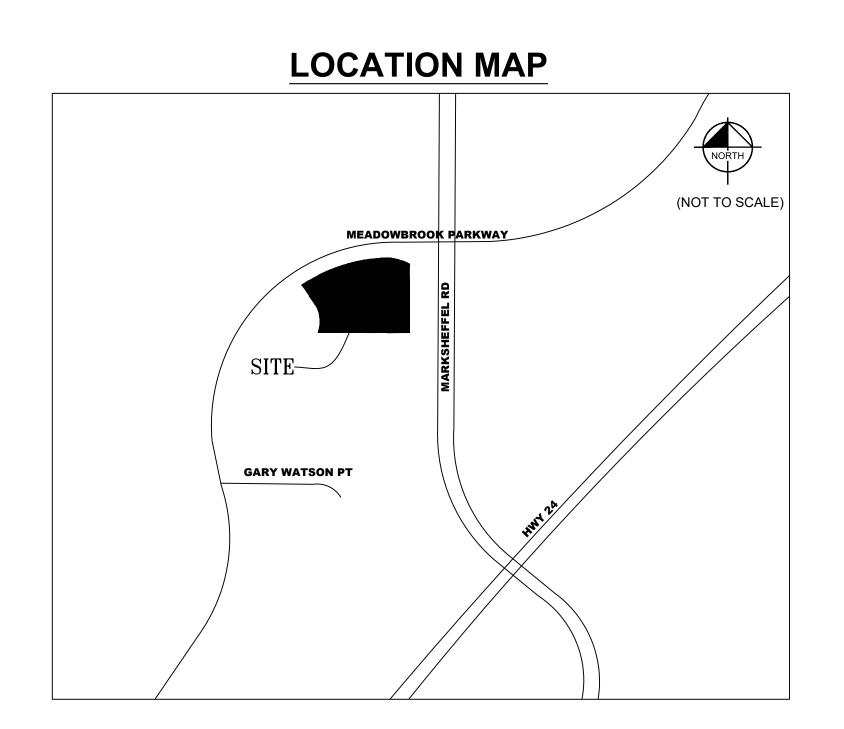
ENGINEER AYRES ASSOCIATES 3665 JFK PARKWAY BLDG. 2 SUITE 100 FORT COLLINS, CO 80525 CONTACT: SCOTT MAIER TEL: (262)-522-4901 EMAIL:MAIERS@AYRESASSOCIATES.COM

LANDSCAPE ARCHITECT AYRES ASSOCIATES 3665 JFK PARKWAY BLDG. 2 SUITE 100 FORT COLLINS, CO 80525 CONTACT: DAVID LAND TEL: (303)-548-2870 EMAIL: LANDD@AYRESASSOCIATES.COM

ARCHITECT **AO ARCHITECTS** 144 N ORANGE STREET ORANGE CA 92866 CONTACT: DUC HUYNH TEL: (714)-639-9860 EMAIL: DUCH@AOARCHITECTS.COM

PROPERTY LEGAL DESCRIPTION

A TRACT OF LAND IN THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER (SE 1/4, SE 1/4) OF SECTION 5, T14S, R65W, OF THE 6TH P.M., EL PASO COUNTY, COLORADO



SHEET LIST TABLE			
SHEET NUMBER SHEET TITLE			
E1.0 COVER SHEET			
E2.0 EROSION CONTROL PLAN			
E2.1 EROSION CONTROL DETAILS			
E3.0	GRADING PLAN		
E3.1 RAIN GARDEN			

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.

Scot Maier. PE #

Owner/Developer's Statement:

plans and specifications.

Tim Varley Super Star Car Wash 1830 N 95th Ave, Suite 106 Phoenix, AZ, 85037

EL PASO COUNTY

County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/ or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/ or accuracy of this document.

Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual Volumes 1 and 2, and Engineering Criteria Manual, as amended.

In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Director's discretion.

County Engineer/ECM Administrator

CONTRACTOR NOTE

CONTRACTOR SHALL KEEP A COPY OF EL PASO COUNTY STAMPED/APPROVED PLANS ON-SITE AT ALL TIMES FOR GENERAL CONTRACTOR AND MUNICIPAL INSPECTOR REFERENCE.

Unresolved form Submittal 1: Add EPC's EDARP File Number: PPR2315

Date

I, the owner/developer have read and will comply with all of the requirements specified in these detailed

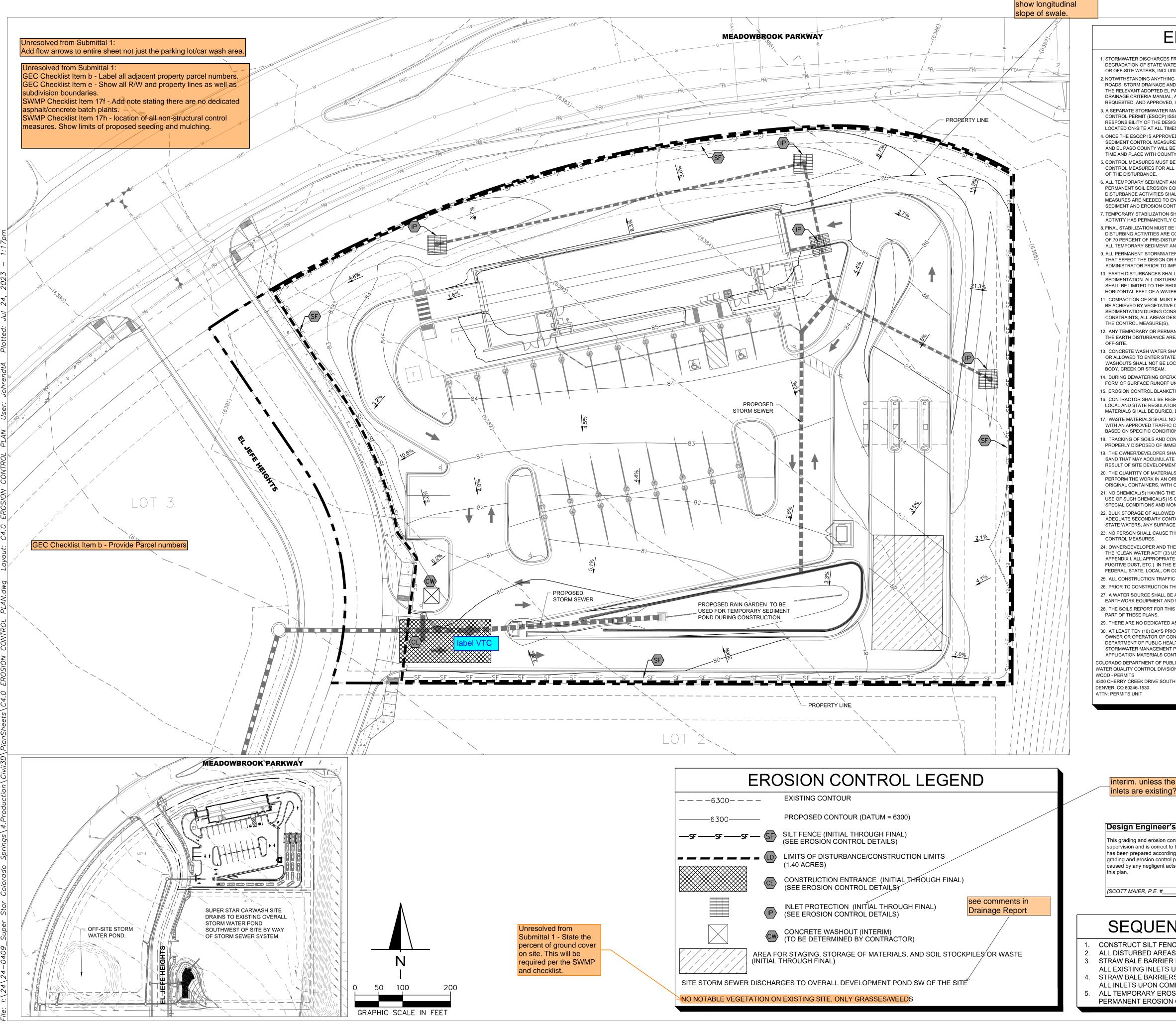
Date

Date





SUPERSTAR CARWASH Revision MEADOWBROOK PKWY MEADOWBROOK PKWY COLORADO SPRING, CO 80915 MEADOWBROK PKWY COVER SHEET MEADOWBROK PKWY	36 BU FC 80 26	65 ILD RT 52 2.5	JFI INC CC 5	K P G 2 DLL	AR 2, S INS	КМ UIT 5, С	(00	I
Τ	DATE							
SUPERSTAR CARWASH MEADOWBROOK PKWY COLORADO SPRING, CO 80915 COVER SHEET	REVISION							
		SUPERSIAR CARWASH			COLORADO SPRING, CO 80915			



- OR OFF-SITE WATERS, INCLUDING WETLANDS
- REQUESTED, AND APPROVED, IN WRITING.
- TIME AND PLACE WITH COUNTY STAFF
- OF THE DISTURBANCE.

- ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- THE CONTROL MEASURE(S)
- OFF-SITE.
- BODY, CREEK OR STREAM
- MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES. PROPERLY DISPOSED OF IMMEDIATELY
- RESULT OF SITE DEVELOPMENT
- SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED
- CONTROL MEASURES

- EARTHWORK EQUIPMENT AND WIND. PART OF THESE PLANS.
- 29. THERE ARE NO DEDICATED ASPHALT OR CONCRETE PLANS DEDICATED FOR THIS SITE.
- APPLICATION MATERIALS CONTACT: COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION WOCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530
- ATTN: PERMITS UNIT
- inlets are existing? **Design Engineer's** This grading and erosion cont supervision and is correct to th has been prepared according grading and erosion control pl caused by any negligent acts, this plan.
- [SCOTT MAIER, P.E. #____

SEQUEN

CONSTRUCT SILT FENC ALL DISTURBED AREAS STRAW BALE BARRIER I ALL EXISTING INLETS UP STRAW BALE BARRIERS ALL INLETS UPON COMF ALL TEMPORARY EROSI PERMANENT EROSION (

EROSION CONTROL NOTES

I. 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

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 FROM REGULATIONS AND STANDARDS MUST BE

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 IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED 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

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

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

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

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

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

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

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

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

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

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),

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

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.

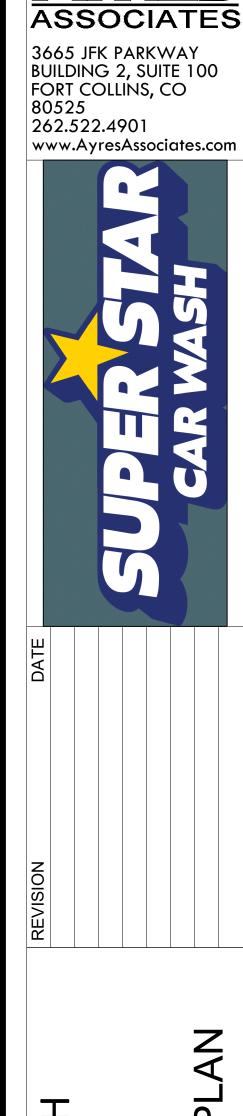
27. A WATER SOURCE SHALL BE AVAILABLE ON-SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY PARTNER ENGINEERING AND SCIENCE, DATE: 7/13/2023 AND SHALL BE CONSIDERED A

30. AT LEAST TEN (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

	LOT AREA = : 1.48 AC DISTURBED AREA =	CRES	SUPERSTA MEADOW COLORADO S	EROSION (
Statement: rol plan was prepared under my direction and ne best of my knowledge and belief. Said plan to the criteria established by the County for ans. I accept responsibility for any liability errors or omissions on my part in preparing	Owner/Developer's Stat	l will comply with all of the		
<u></u> CE OF ACTIVIT	PHOENIX, AZ, 85037			AJJ SEM 6/23/2023
E SHALL BE STABILIZED AND VEGETA NLET PROTECTION SHALL BE CONS PON COMPLETION OF CONSTRUCTIO SHALL BE REPLACED WITH GRAVEL PLETION OF PAVING ON CONTROL MEASURES SHALL BE CONTROL MEASURES ARE ESTABLIS	RUCTED AT N. FILTERS AT IN PLACE UNTIL	N 10 20 4	Project No. Sheet Number E2.	24-0409 0

GRAPHIC SCALE IN FEET



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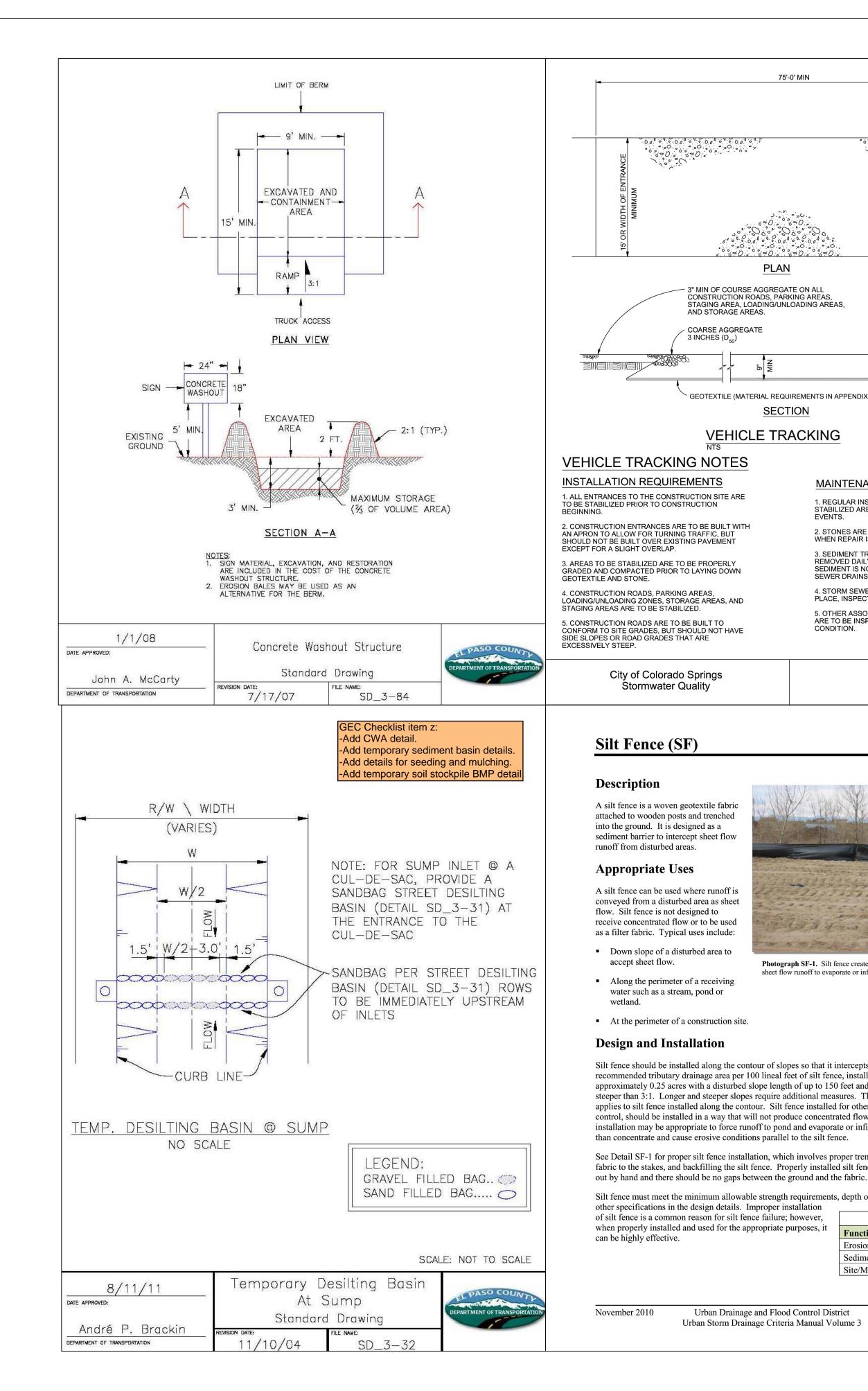
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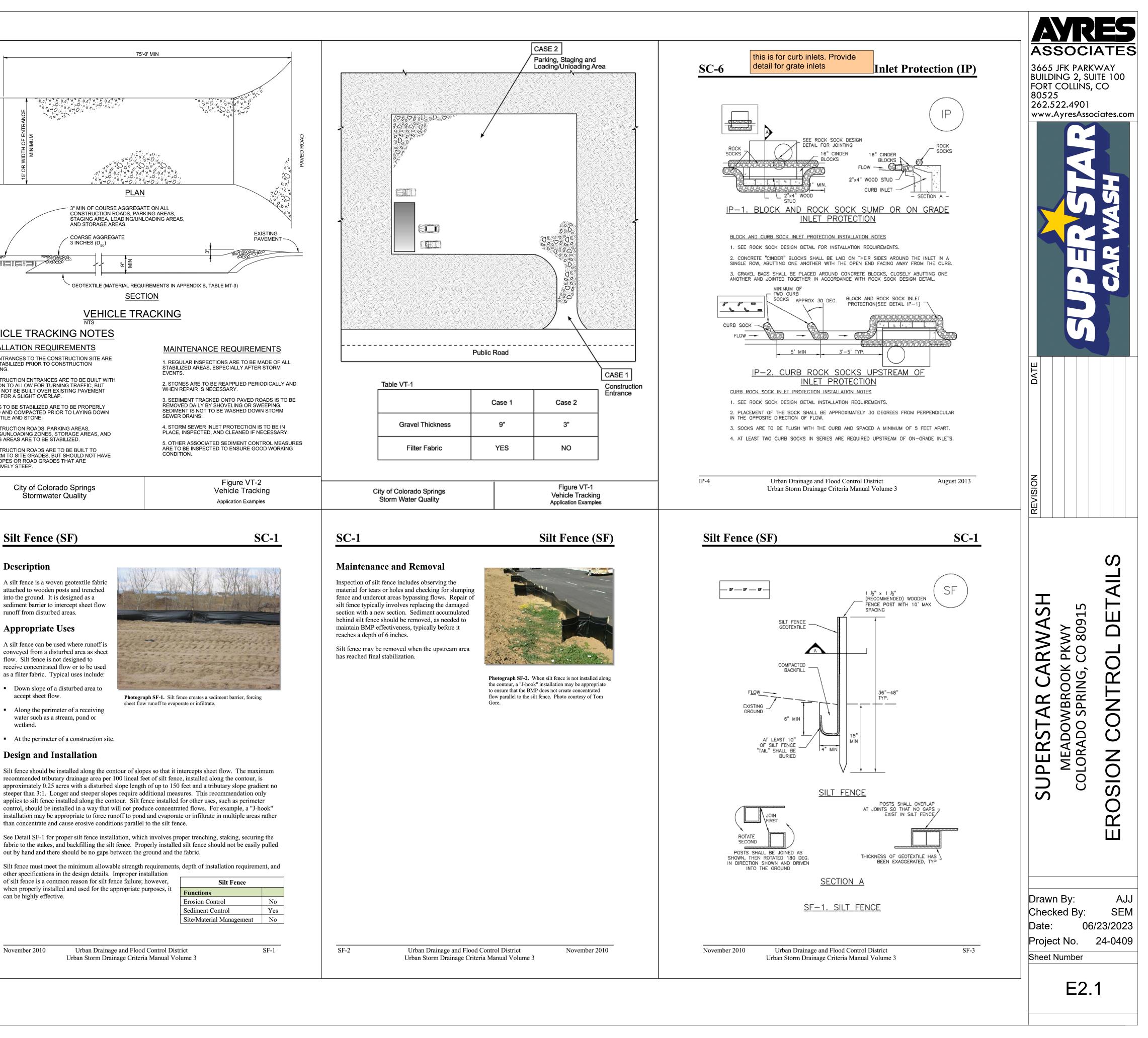
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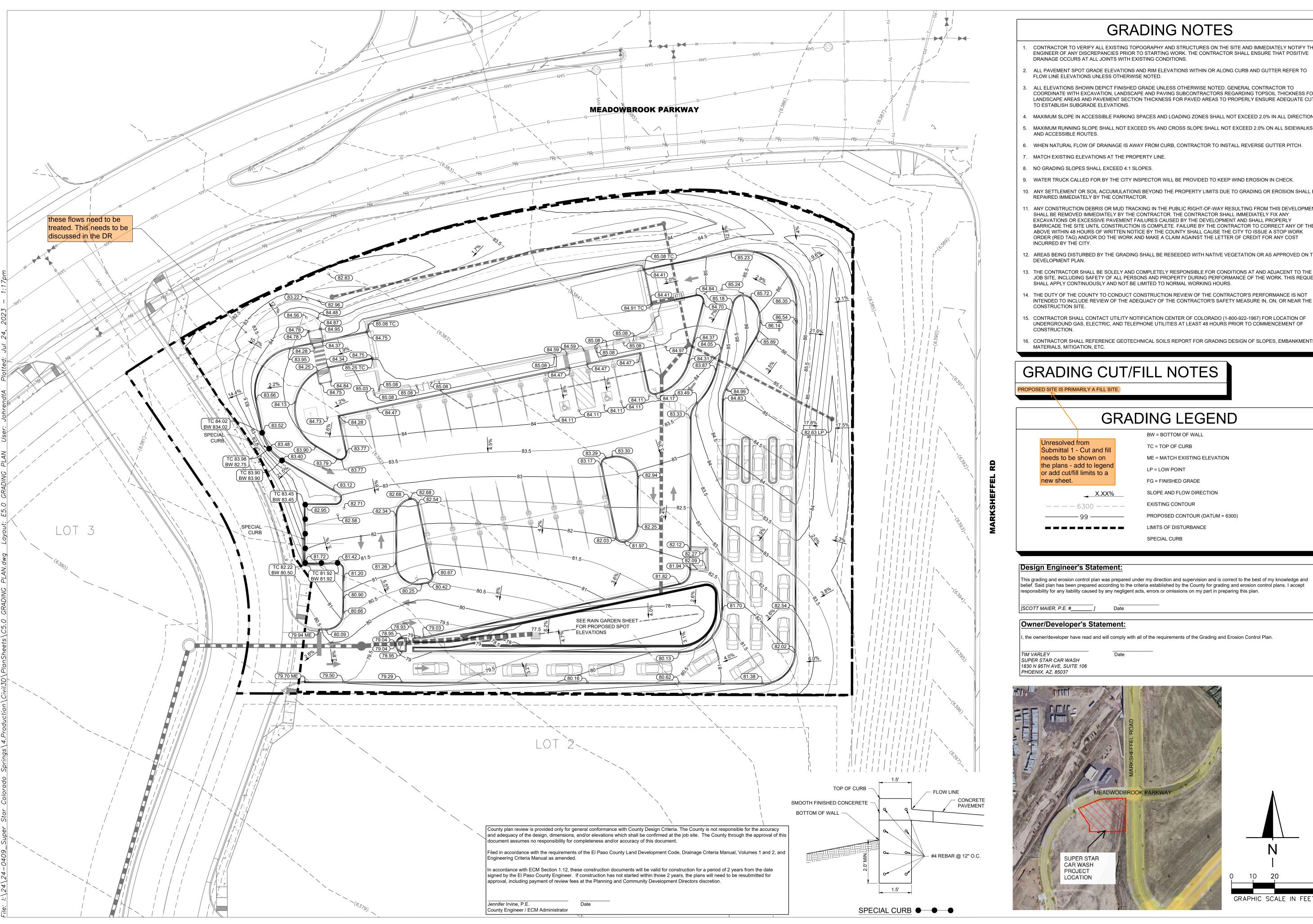
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GRADING NOTES

CONTRACTOR TO VERIFY ALL EXISTING TOPOGRAPHY AND STRUCTURES ON THE SITE AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK. THE CONTRACTOR SHALL ENSURE THAT POSITIVE

ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO

ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FO LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT

4. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTION MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2.0% ON ALL SIDEWALKS

6. WHEN NATURAL FLOW OF DRAINAGE IS AWAY FROM CURB, CONTRACTOR TO INSTALL REVERSE GUTTER PITCH.

9. WATER TRUCK CALLED FOR BY THE CITY INSPECTOR WILL BE PROVIDED TO KEEP WIND EROSION IN CHECK.

SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY FIX ANY EXCAVATIONS OR EXCESSIVE PAVEMENT FAILURES CAUSED BY THE DEVELOPMENT AND SHALL PROPERLY BARRICADE THE SITE UNTIL CONSTRUCTION IS COMPLETE. FAILURE BY THE CONTRACTOR TO CORRECT ANY OF THE ABOVE WITHIN 48 HOURS OF WRITTEN NOTICE BY THE COUNTY SHALL CAUSE THE CITY TO ISSUE A STOP WORK ORDER (RED TAG) AND/OR DO THE WORK AND MAKE A CLAIM AGAINST THE LETTER OF CREDIT FOR ANY COST

12. AREAS BEING DISTURBED BY THE GRADING SHALL BE RESEEDED WITH NATIVE VEGETATION OR AS APPROVED ON T

13. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUE

14. THE DUTY OF THE COUNTY TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURE IN, ON, OR NEAR THE

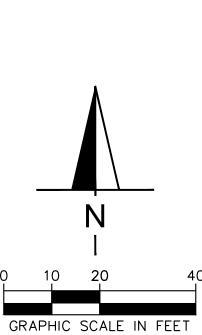
15. CONTRACTOR SHALL CONTACT UTILITY NOTIFICATION CENTER OF COLORADO (1-800-922-1967) FOR LOCATION OF UNDERGROUND GAS, ELECTRIC, AND TELEPHONE UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF

16. CONTRACTOR SHALL REFERENCE GEOTECHNICAL SOILS REPORT FOR GRADING DESIGN OF SLOPES, EMBANKMENTS

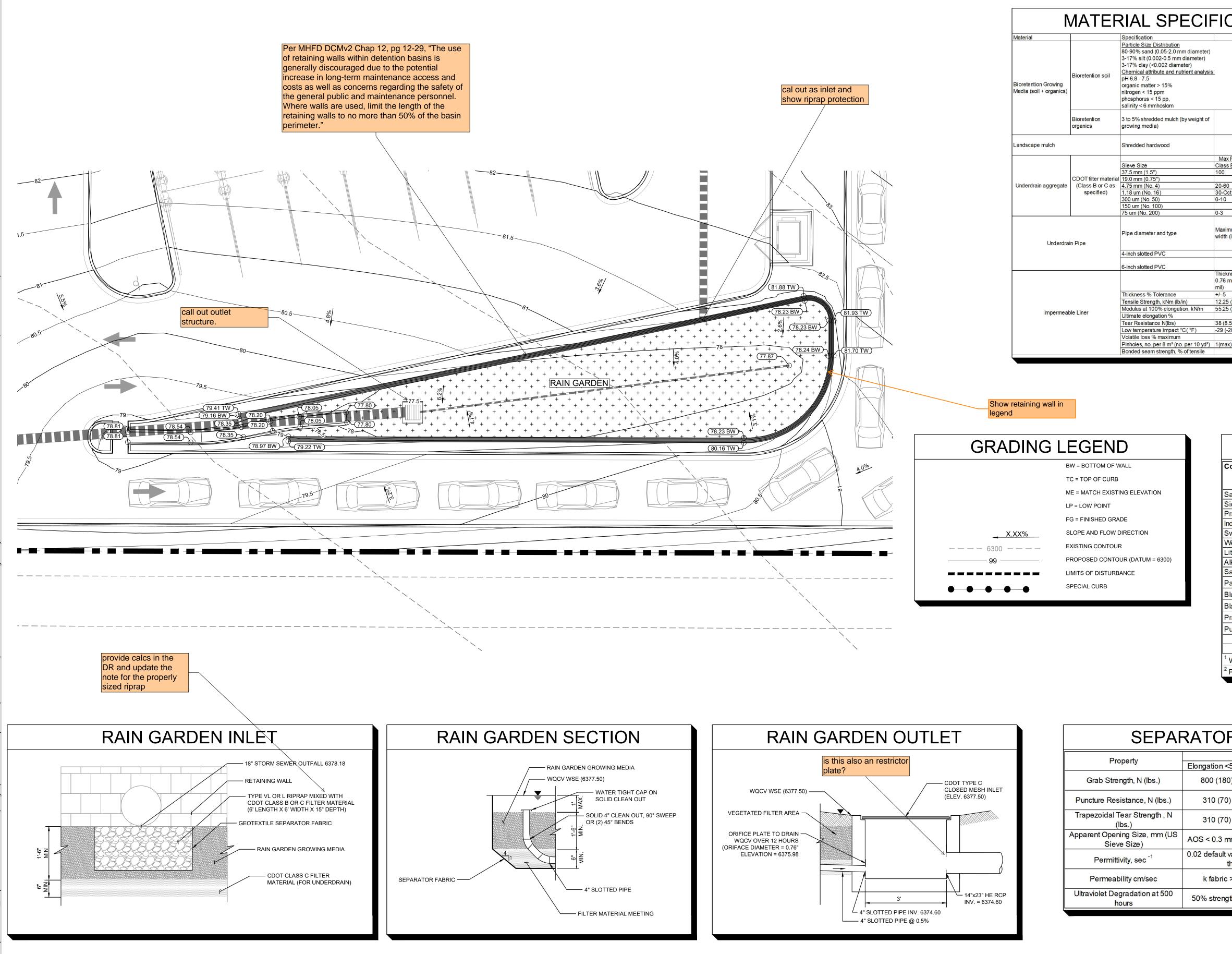
GRADING LEGEND

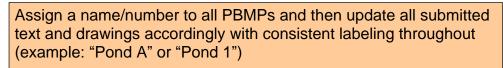
	BW = BOTTOM OF WALL
lved from al 1 - Cut and fill	TC = TOP OF CURB
o be shown on	ME = MATCH EXISTING ELEVATION
ns - add to legend cut/fill limits to a	LP = LOW POINT
eet.	FG = FINISHED GRADE
X.XX%	SLOPE AND FLOW DIRECTION
	EXISTING CONTOUR
99	PROPOSED CONTOUR (DATUM = 6300)
	LIMITS OF DISTURBANCE
	SPECIAL CURB

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



HE DR JT NS. S BE ENT HE THE EST EST	ASSOCIATES ASSOCIATES 3665 JFK PARKWAY BUILDING 2, SUITE 100 FORT COLLINS, CO 80525 262.522.4901 www.AyresAssociates.com
	SUPERSTAR CARWASH REVISION NEADOWBROOK PKWY MEADOWBROOK PKWY COLORADO SPRING, CO 80915 E GRADING AND DRAINAGE PLAN E
40 	Drawn By: AJJ Checked By: SEM Date: 06/23/2023 Project No. 24-0409 Sheet Number E3.0





		Submittals	Testing	Notes
		Particle size distribution and nutrient analysis required.		Percentages are in weight
				bioretention soil required. Aged 6 months (minimum).
				Aged 6 months (minimum). No weed fabric allowed.
	Passing Square Mesh			
s B	Class C	-		
	100			
0	100 60-100	Particle Size		
Dot	60-100	Distribution Required		
	10-30			
	0-10	1		
	0-3	1		
h (inches)	Minimum open area (per foot)	Required	Pipe must conform to requirements of ASTM designation F949. There shall be no evidence of splitting cracking or breaking when the pipe is tested per ASTM test method	Contech A-2000 slotted pipe (or equal)
0.032	1.90 in ²	+	D2412 in accordance with F949 section 7.5 and ASTM F794 section	
0.032	1.98 in ²		8.5.	
kness mm (30	1.00 m		0.0.	
	Test Method			
	ASTM D 1593			
5 (70)	ASTM D8 82, Method B		Thermal welding required for fully	
5 (30)	ASTM D8 82, Method B	Doguirod	lined facilities (no a cutain).	
	ASTM D8 82, Method A	rioquirou	Leaktesing in the field required.	
3.5)	ASTM D 1004	-	qui ou.	
(-20)	ASTM D 1790	-		
	ASTM D8 82, Method A			
ax)	N/A			
80	N/A			

RAIN	GARDEN	SEED	MIX
X Y			

Common Name	Scientific Name	Variety	PLS ²	Ounces
			lbs per	per Acre
			Acre	
Sand Bluestem	Andropogon hallii	Garden	3.5	
Sidecoats grama	Bouteloua curtipendula	Butte	3	
Prairie sandreed	Calamovilfa longifolia	Goshen	3	
Indian ricegrass	Oryzopsis hymenoides	Paloma	3	
Switchgrass	Panicum virgatum	Blackwell	4	
Western Wheatgrass	Pascopyrum smithii	Ariba	3	
Little Bluestem	Schizachyrium scoparium	Patura	3	
Alkali Sacaton	Sporobolus airoides		3	
Sand Dropseed	Sporobolus cryptandrus		3	
Pasture Sage ¹	Artemisia frigida			2
Blue Aster ¹	Aster laevis			4
Blanket Flower ¹	Gaillardia aristata			8
Prairie Coneflower ¹	Ratibida columnifera			4
Purple Prairieclover ¹	Dalea (Petalostemum) purpurea	l		4
Sub-Totals			27.5	22
Total labs per acre:			2	8.9
¹ Wildflower seed (optional) for a more diverse and natural look				
² PLS = Pure Live Seed				

R FABRIC					
Class B <50% ² Elongation > 50% ²		Test Method			
80)		ASTM D 4632			
0)		ASTM D 4833			
0)		ASTM D 4533			
mm (US Sieve Size No. 50)		ASTM D 4751			
t value, must also be greater than that of soil		ASTM D 4491			
c > k soil for all classes		ASTM D 4491			
gth retai	ned for all classes	ASTM D 4355			

