

# CONSTRUCTION PLANS

**SF-19-0XX** 

RICHARD L. SCHINDLER, P.E. # 33997 FOR AND ON BEHALF OF CORE ENGINEERING GROUP



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

### SHEET INDEX SHEET SHEET DESCRIPTION NO. COVER SHEET C1.1 C1.2 NOTES C1.3 TYPICAL SECTIONS C2.1 STREET HORIZONTAL CONTROL C5.1 SIGNING/STRIPING PLANS STREET/STORM PLAN AND PROFILES C6.1-C6.6 C10.1-C10.3 | DETAILS

### **DEVELOPER'S STATEMENT**

THE UNDERSIGNED OWNER/DEVELOPER HAS READ AND WILL COMPLY WITH ALL THE REQUIREMENTS SPECIFIED IN THESE CONSTRUCTION PLANS AND THE ACCOMPANYING DRAINAGE REPORT.

BUSINESS NAME LORSON, LLC

ADDRESS \_\_\_\_\_ 212 N. WAHSATCH AVE. SUITE 301 COLORADO SPRINGS, CO 80903

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

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUALS VOLUME 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 TWO YEARS THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION

JENNIFER IRVINE, COUNTY ENGINEER/ECM ADMINISTRATOR

DATE

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

TOTAL SHEETS: 14

### CONSTRUCTION NOTES

- 1. ALL WORK SHALL COMPLY WITH THE CODES AND POLICIES FOR EL PASO COUNTY.
- 2. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THIS GRADING PLAN WAS OBTAINED FROM DREXEL, BARRELL & CO., JULY, 2005. SUPPLEMENTAL SURVEY DATA WAS OBTAINED FOR MARKSHEFFEL ROAD FROM M&S CIVIL GROUP IN NOVEMBER, 2016. THE CONTRACTOR SHALL BE RESPONSIBLE TO EXAMINE THE SITE AND BE FAMILIAR WITH THE EXISTING CONDITIONS.
- 3. DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS: BASE OF ALL CUTS AND FILLS - 12 INCHES, FULL DEPTH OF ALL EMBANKMENTS
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE RE-ESTABLISHMENT OF ALL SURVEY MONUMENTS DISTURBED WITHIN THE PROJECT LIMITS.
- 5. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM FLOODING AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED.
- 6. PRIOR TO PAVING OPERATIONS, THE ENTIRE SUBGRADE SHALL BE PROOF-ROLLED WITH A LOADED 988 FRONT-END LOADER OR SIMILAR HEAVY RUBBER TIRED VEHICLE (GVW OF 50,000 POUNDS WITH 18 KIP PER AXLE AT TIRE PRESSURES OF 90 PSI) TO DETECT ANY SOFT OR LOOSE AREAS. IN AREAS WHERE SOFT OR LOOSE SOILS, PUMPING OR EXCESSIVE MOVEMENT IS OBSERVED, THE EXPOSED MATERIALS SHALL BE OVER-EXCAVATED TO A MINIMUM DEPTH OF TWO FEET BELOW PROPOSED FINAL GRADE OR TO A DEPTH AT WHICH SOILS ARE STABLE. AFTER THIS HAS BEEN COMPLETED, THE EXPOSED MATERIALS SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES AND MOISTURE CONDITIONED. THE SUBGRADE SHALL THEN BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTMM D-698) AT 0 TO +4.0% OF OPTIMUM MOISTURE CONTENT FOR A-6 AND A-7-6 SOILS ENCOUNTERED. OTHER SUBGRADE TYPES SHALL BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557) AT PLUS OR MINUS 2.0% OF OPTIMUM MOISTURE CONTENT. AREAS WHERE STABLE NATURAL SOILS ARE ENCOUNTERED AT PROPOSED SUBGRADE ELEVATION SHALL ALSO BE SCARIFIED (18 INCHES FOR A-7-6 SOILS BELOW FULL-DEPTH ASPHALT CONCRETE) AND COMPACTED AS OUTLINED ABOVE PRIOR TO PAVING OPERATIONS. SUBGRADE FILL SHALL BE PLACED IN SIX-INCH LIFTS AND UNIFORMLY COMPACTED, MEETING THE REQUIREMENTS AS PREVIOUSLY DESCRIBED.
- 7. SUBGRADE MATERIALS DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED, DISPOSED OF AND REPLACED WITH APPROVED MATERIALS.
- 8. FILL SHALL BE PLACED IN 8-INCH MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED PRIOR TO SUCCESSIVE LIFTS.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DURING CONSTRUCTION ACTIVITIES AT ALL TIMES DURING GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES:
  - HAY BALE BARRIERS WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
  - SILT FENCE WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
  - TEMPORARY SEDIMENTATION BASINS WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
  - MULCHING AND SEEDING OF EXCESSIVE SLOPED AREAS AS NEEDED OR AS DIRECTED BY THE ENGINEER.
  - TEMPORARY VEHICLE TRACKING CONTROL AS NEEDED AND/OR DIRECTED BY THE ENGINEER.
  - CONCRETE WASH AREAS.

INLET PROTECTION.

THESE AND ALL EROSION CONTROL BEST MANAGEMENT PRACTICES AS SHOWN IN THE GRADING AND EROSION CONTROL PLANS SHALL BE STRICTLY ADHERED TO.

10. FINISHED CONTOURS/SPOT ELEVATIONS SHOWN HEREON REPRESENT FINISHED GRADES. ALL PAVEMENT SUBGRADES ARE BASED ON THE COMPOSITE ASPHALT PAVEMENT RECOMMENDATIONS MADE IN THE "GEOTECHNICAL STUDY" FOR LORSON RANCH.

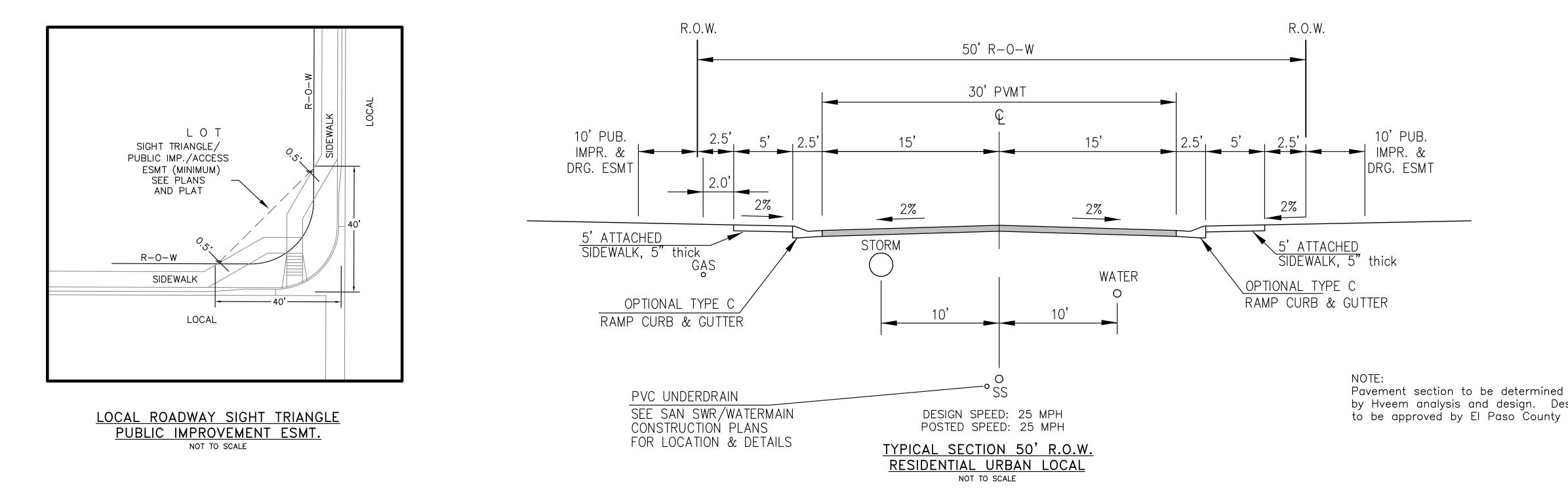
### EL PASO COUNTY STANDARD CONSTRUCTION NOTES:

- 1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- 3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
  - a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
  - b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2 c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND
- BRIDGE CONSTRUCTION d. CDOT M & S STANDARDS
- 4. 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 REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH PLANNING AND COMMUNITY DEVELOPMENT (PCD) INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- 8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- 10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- 13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY PUBLIC WORKS DEPARTMENT AND MUTCD CRITERIA.
- 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY PUBLIC WORKS DEPARTMENT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

### STORM SEWER NOTES:

1. CONTRACTOR SHALL USE "TYLOX SUPER SEAL" OR APPROVED EQUL JOINT GASKET FOR ALL RCP STORM SEWER JOINTS

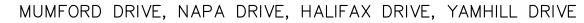
L L L L L L L L L L L L L L L L L L L	ENGINEERING GROUP	15004 1ST AVENUE S. BURNSVILLE, MN 55306 PH: 719.570.1100	CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com
PTION DATE DATE		PREPARED FOR: LORSON, LLC	212 N. WAHSATCH ÁVE, SUITE 301 COLORADO SPRINGS, COLORADO 80903 (719) 635–3200 CONTACT: JEFF MARK
NO. DESCRIF		PROJECT: LORSON RANCH EAST	FILING NO. 3 LAMPREY DR - YAMHILL DR COLORADO SPRINGS, COLORADO
			NOTES
	NUAR PROJ 100 SHEET	ECT NO .049 NUMBE 1.2	9 :R

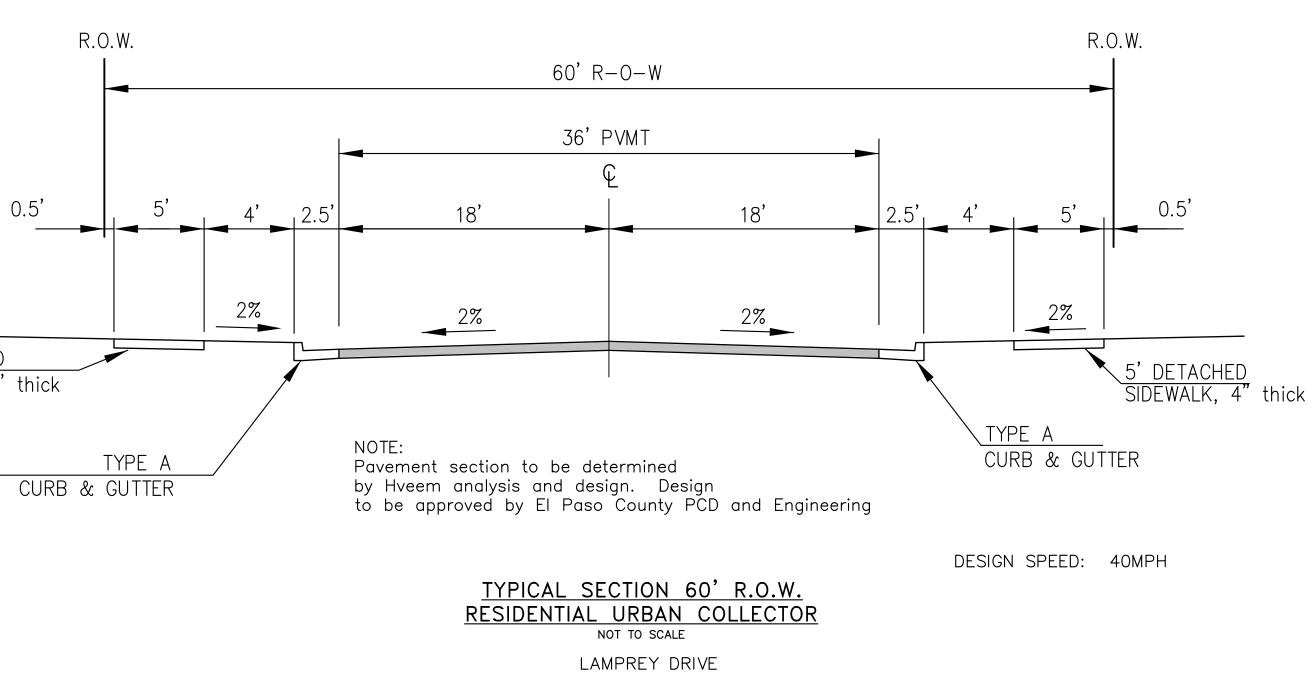


NOTE: ADDITIONAL PUBLIC IMPROVEMENT EASEMENTS ARE REQUIRED WHERE SIDEWALK ENCROACHES INTO THE PRIVATE LOTS. SEE CONSTRUCTION DRAWINGS AND THE FINAL PLAT. SEE CONSTRUCTION DRAWINGS AND PLAT FOR SIGHT TRIANGLES

0.5'

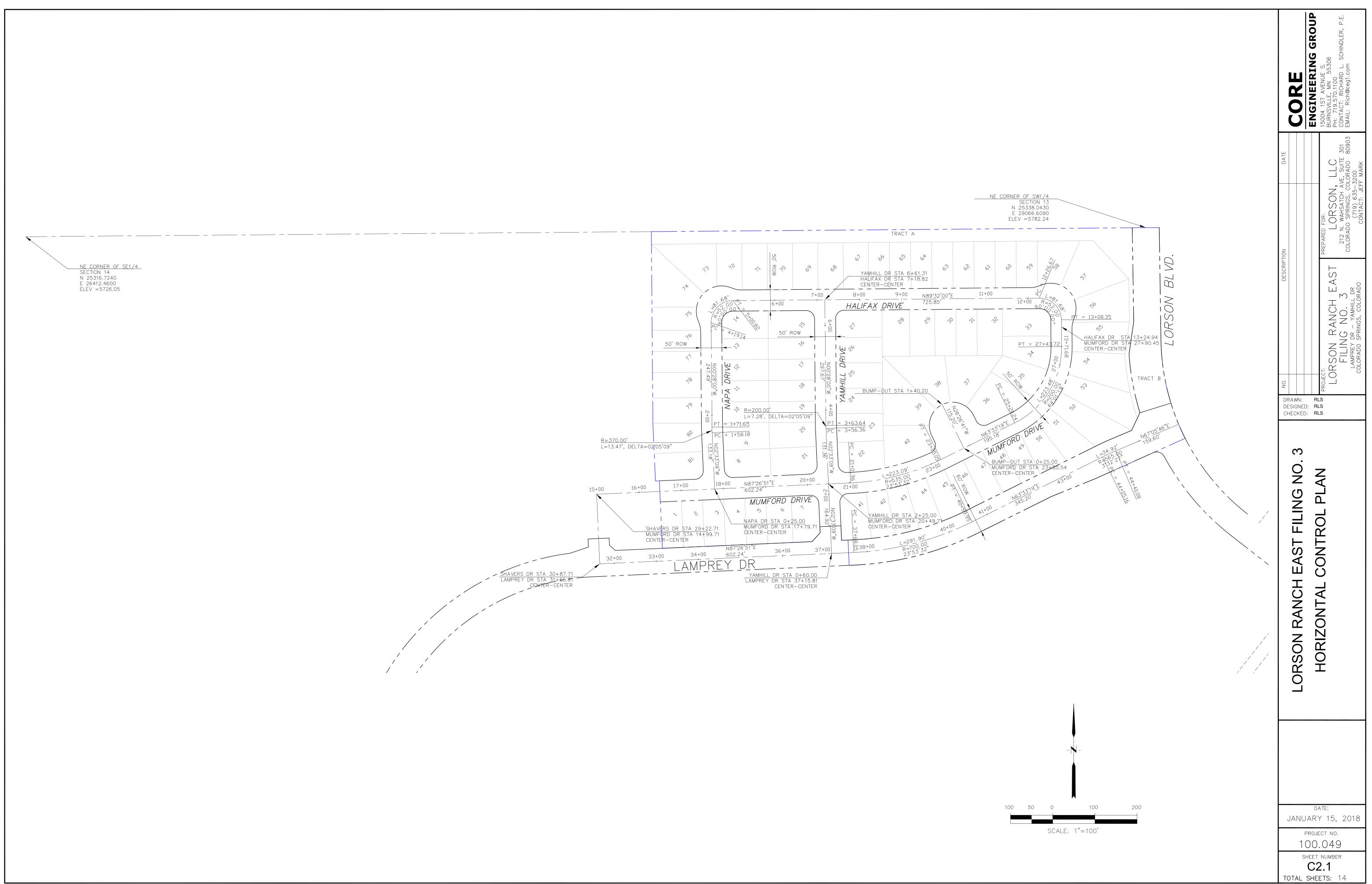
5' DETACHED SIDEWALK, 4" thick





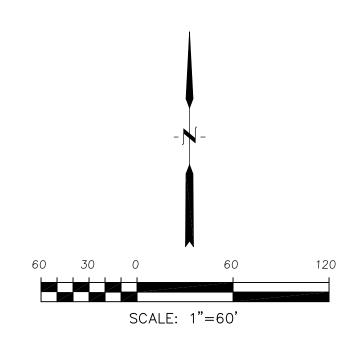
by Hveem analysis and design. Design to be approved by El Paso County PCD Engineering

(719) 635–3200 CONTACT: JEFF MARK
COLORADO SPRINGS, COLORADO
18



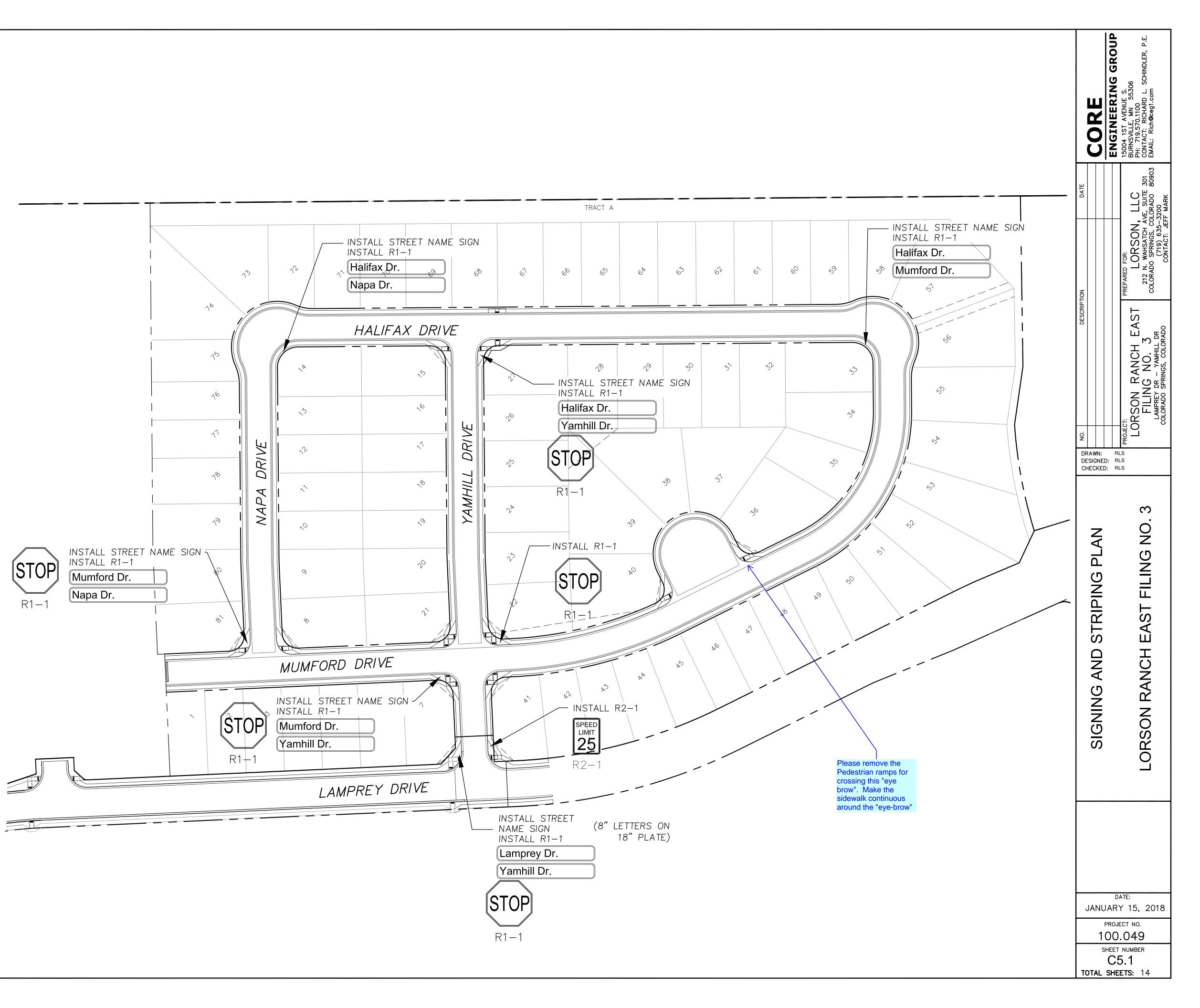
Notes:

1. Contractor must submit shop drawings to the engineer and to the county for approval prior to ordering signs

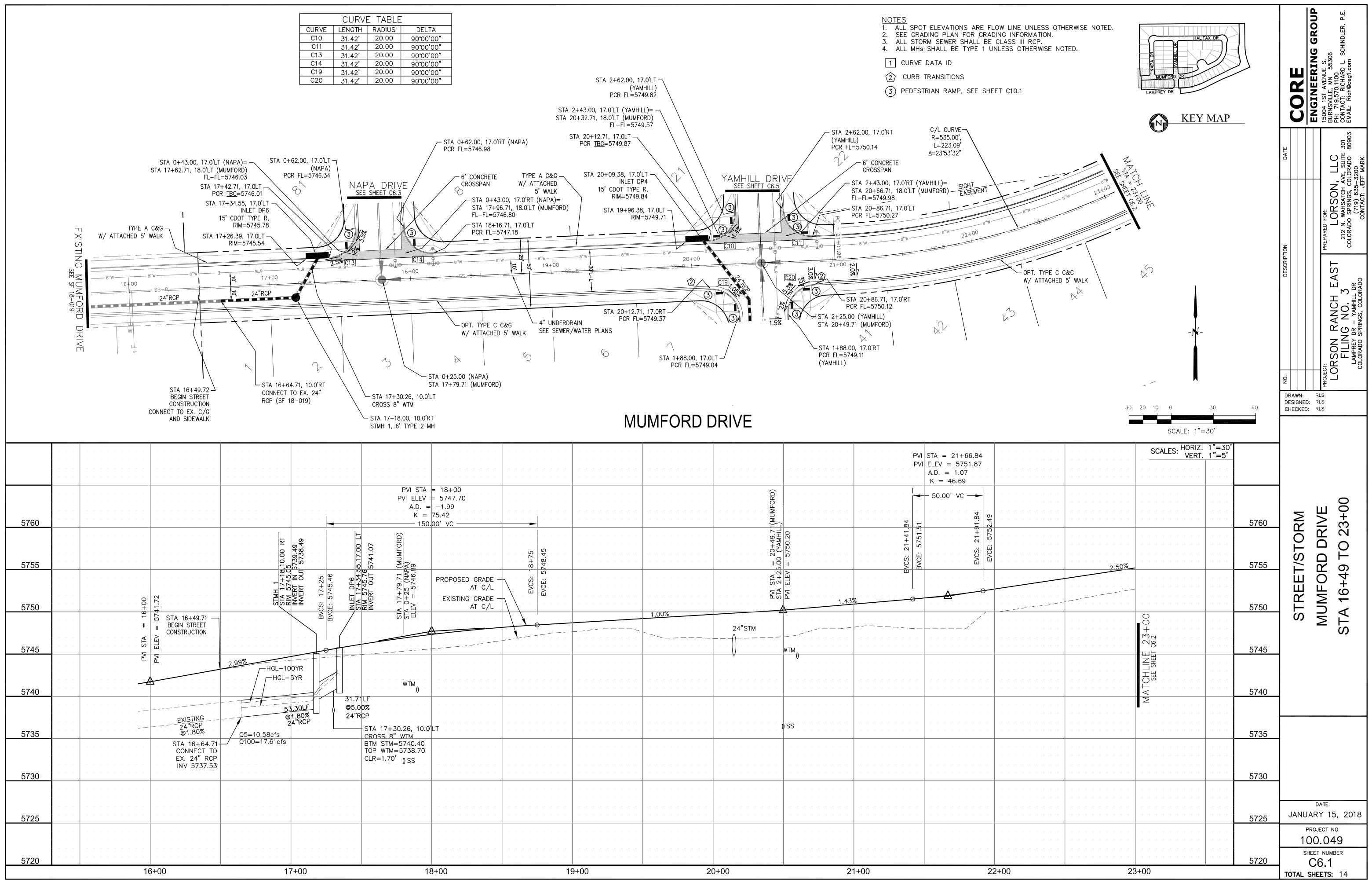


Signing and Striping Notes:

- 1. All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
- 2. Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. At no time will it be acceptable to paint over existing pavement markings.
- 3. Any deviation from the striping and signing plan shall be approved by El Paso County Planning and Community Development. All signs shown on the signing and striping plan shall be new signs. Existing signs may remain or be reused if they meet current El Paso County Public Works Department and MUTCD standards.
- 4. Street name and regulatory stop signs shall be on the same post at intersections.
- 5. All removed signs shall be disposed of in a proper manner by the contractor.
- 6. All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 8" blank and non-local roadway signs being 6" lettering, upper-lower case on 12" blank, with a white border that is not recessed. Multi-lane roadways with speed limits of 40 mph or higher shall have 8" upper-lower case lettering on 18" blank with a white border that is not recessed. The width of the non-recessed white borders shall match page 255 of the 2012 MUTCD "Standard Highway Signs"
- 7. All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
- 8. All local residential street signs shall be mounted on a 1.75" x 1.75" square tube sign post and stub post base. For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post slipbase design.
- 9. All signs shall be single sheet aluminum with 0.100" minimum thickness.
  10. All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings with tapered leading edges per CDOT Standard S-627-1. Word and symbol markings shall be the narrow type. Stop bars shall be 24" in width. Crosswalks lines shall be 12" wide and 8' long per CDOT S-627-1.
- All longitudinal lines shall be a minimum 15mil thickness epoxy paint. All non-local residential roadways shall include both right and left edge line striping and any additional striping as required by CDOT S-627-1.
   The contractor shall notify El Paso County Planning and Community
- Development (719) 520-6819 prior to and upon completion of signing and striping. 13. The contractor shall obtain a work in the right of way permit from
- the El Paso County Public Works Department prior to any signage or striping work within an existing El Paso County roadway.

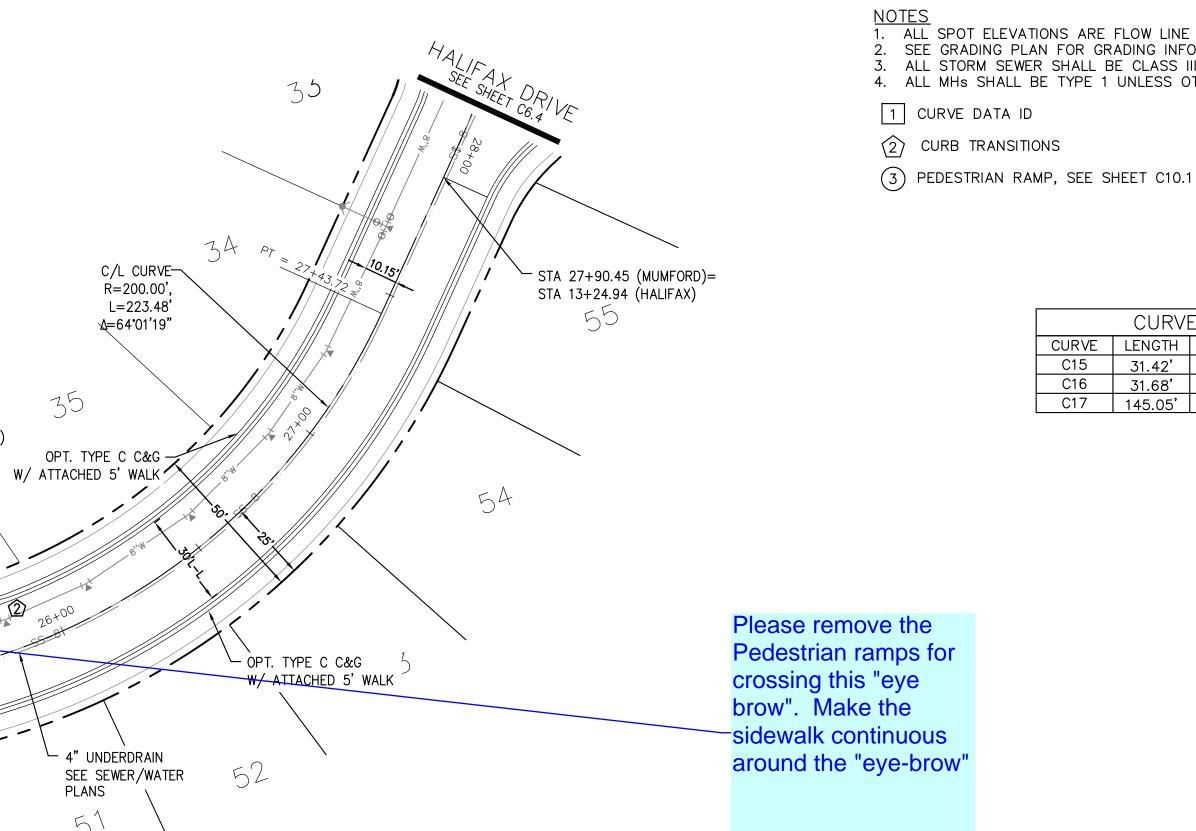


CURVE TABLE											
CURVE	LENGTH	RADIUS	DELTA								
C10	31.42'	20.00	90°00'00"								
C11	31.42'	20.00	90°00'00"								
C13	31.42'	20.00	90°00'00"								
C14	31.42'	20.00	90 <b>°</b> 00'00"								
C19	31.42'	20.00	90°00'00"								
C20	31.42'	20.00	90 <b>°</b> 00'00"								

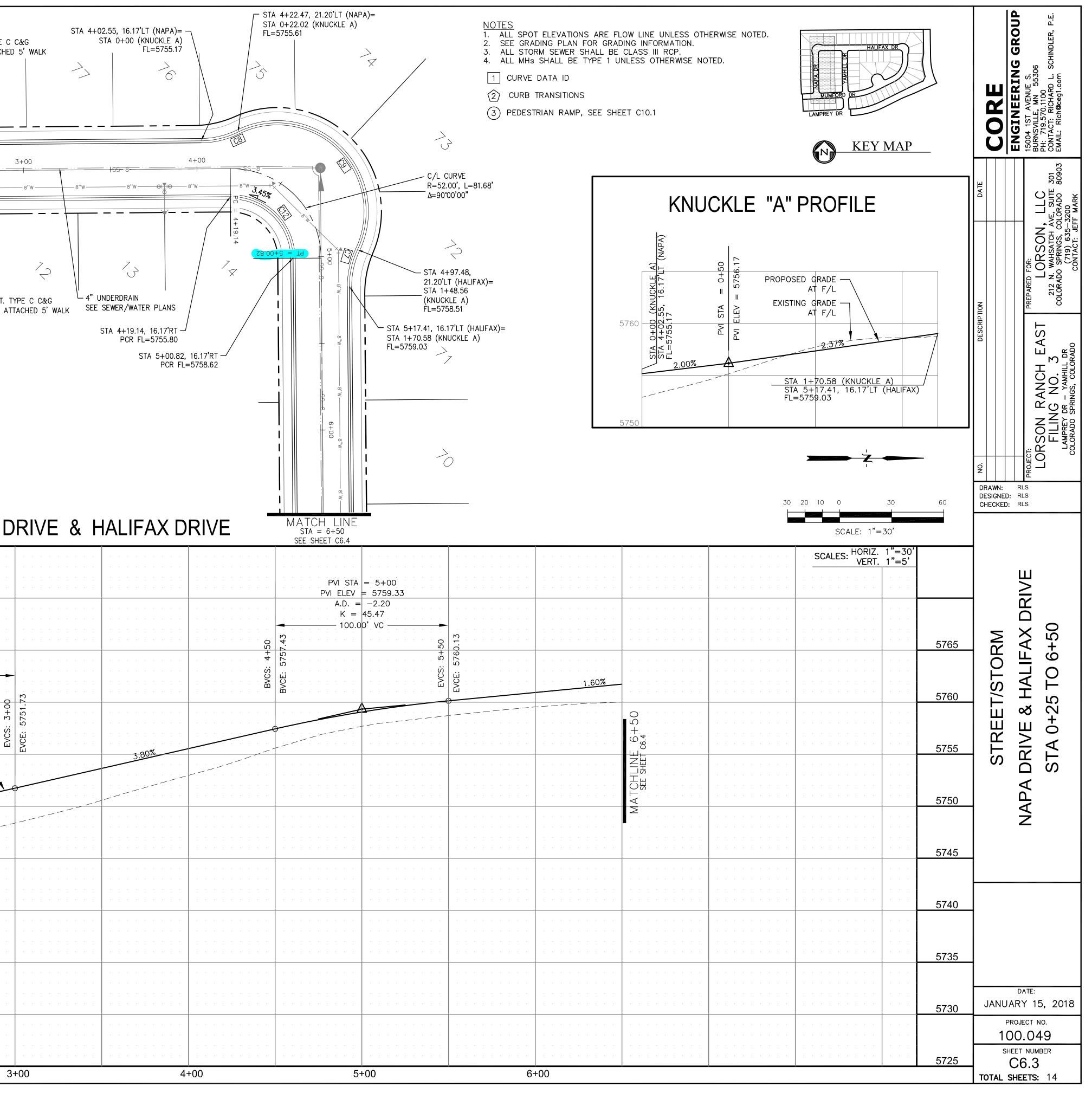


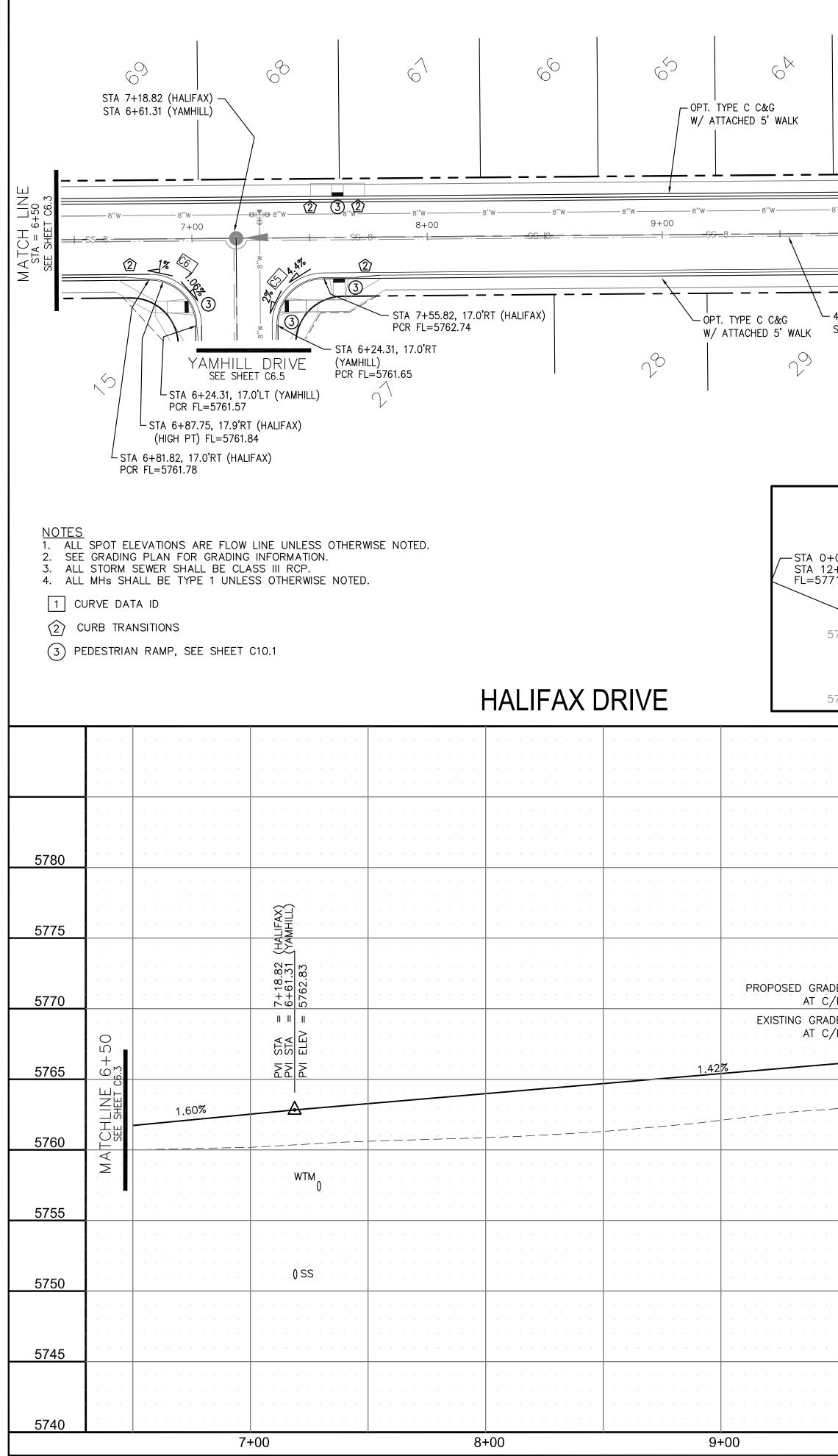
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STA 0+85.20, 46.17'LT (BUMP) PCR FL=5756.61 STA 0+62.04, 47.0'LT (BUMP) PCR FL=5756.12 STA 0+43.00, 47.0'LT (BUMP)= STA 23+38.54, 18.0'LT (MUMFORD) FL-FL=5755.70 STA 23+18.06, 17.0LT PCR FL=5755.19 UI HOLK STA 23+18.06, 17.0LT PCR FL=5755.19 UI HOLK STA 23+18.06, 17.0LT PCR FL=5755.19 STA 23+38.54		STA 0+85.20 CENTER (BUMP)= STA 23+85.54, 60.20'LT (MUMFORD)         STA 0+85.20, 46.17'RT (BUMP)         PCR FL=5758.73         STA 0+62.00, 47.00'RT (BUMP)         PCR FL=5758.22         6' CONCRETE CROSSPAN         STA 0+43.00, 46.17'RT (BUMP)= STA 24+32.54, 18.0'LT (MUMFORD)         FL-FL=5757.81         OPT. TYP         STA 24+52.54, 17.0'LT         PCR FL=5758.21         W         A C&G         W/ ATTACHED 5' WALK	DERDRAIN EWER/WATER 52	1 CURVE DATA ID 2 CURB TRANSITIONS 3 PEDESTRIAN RAMP, S UMFORD)= ALIFAX)		ECHE: 1"=30"	NO.     DESCRIPTION     DATE       PROJECT:     DESCRIPTION     DATE       LORSON     RANCH     ENCINEERING GROUP       PROJECT:     LORSON, LLC     DRINSVILLE, MN 55306       LAMPREY DR YAMHILL DR     COLORADO SPRINGS, COLORADO 80903     COLORADO SPRINGS, COLORADO 80903       CALORADO SPRINGS, COLORADO 80903     COLORADO SPRINGS, COLORADO 80903     EMAIL: RICHARD L. SCHINDLER, P.E.
		PVI STA = 25+75	PVI STA = $27+43$ PVI ELEV = $5769.88$ A.D. = $-1.73$			SCALE: 1 = 30' SCALES: HORIZ. 1"=30' VERT. 1"=5'	
		PVI ELEV = 5761.12         A.D. = $3.21$ K = $62.21$ 200.00' VC	7+18 7+18 668.58 668.58 668.58 CS: 27+68 CS: 27+75 CS: 27+755 CS: 27+755 CS: 27+755 CS: 27+755		MUMFORD BUMP-OUT		- 100 × 00 +
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5735 23+00	24+00	25+00 26+00	27+00	0+00	1+00	5735	SHEET NUMBER C6.2 TOTAL SHEETS: 14



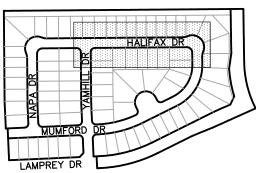
STA 0+2 STA 17+79.71	<b>5</b> .00 (NAP	SEE	CURVE C7 C8 C9 C12 C13 C14		RVE TH R 2' 2 4' 5 8' 5 2' 2	STA O STA 1 FL-FL	PCR I STA 0- STA 17 FL-FL= STA 17 FL-FL= STA 0- STA 17 FL-FL= STA 17 FL= STA 17 FL= S	TA 0+62. IAPA) CR FL=57 1+00 	.01 7.0'LT 18.0'LT 00, 17.0 46.34 8''W 8''W 8''W 8''W 8''W	(MUMFO 0'LT  5TA 0+6 PCR FL= ETE A)=	RD)		РТ = 1+71.65 (NAPA) I	/ F	C/L CURV R=370.00 () () () () () () () () () () () () ()	2, L=13.4 9"	7'		APA
		  	· · · · ·	· · ·		· · · · ·	· ·		· · ·	· · · ·		· · ·			· · ·	· · · · ·	· ·		
			· · · · ·	· · ·		· · · · ·	· ·	· · · ·	· · · ·	· · · ·	· · ·	· · · ·	· · · ·		· · ·	· · · · ·	· ·		· · · · · ·
5765				· · ·	· · · ·	· · · · ·	· ·	· · · ·	· · · ·	· · · ·	· · ·	· · · ·	· · ·		· · ·	PVI E	LEV =	= 2+50 5749.8 2.21 15.23	3 · · · · · ·
5760			PA) (MUMFORD)	· · · ·	= 0+40 = 5746.59 - 0-43	$\begin{array}{r} - 0.440 \\ = 5746.43 \\ = 0+46 \\ = 5746.59 \end{array}$	· ·	· · · ·	· · · ·	· · · ·	· · ·	· · ·	· · · ·		· · ·			0' VC —	· · · · · ·
5755		· · ·	0+25 (NAP 17+79.71 5746.89		STA ELEV sta	PVI ELEV = PVI STA = PVI ELEV =	· ·		· · · ·	· · ·	· · ·	· · ·	· · ·	2+00	5749.04	PRO	POSEI	) GRADE AT C/L	
			STA = STA = ELEV =				· · ·	· · · ·	· · · ·	· · · ·		· · · ·	· · · ·	BVCS:	BVCE:	E)	(ISTIN)	GRADE AT C/L	
5750		2			· · · ·		LT FL RT FL	PROFILI PROFIL	E=1.63 E=0.9	3% 3%	1.5		1+52	.00,	) 16.17'L	T/RT			
5745	· · · ·				FL-FL	0 <u>+43.00</u> =5746.0 =5746.8	<u></u> - 3 (LT) 0 (RT		· · · ·		· · ·	+L= 	= ɔ / 4 / . ٤ 	51 — —	· · · ·		  		
5740			WTM	0 · · ·		· · · · ·	· ·	· · · ·	· · · ·	· · · ·	· · ·	· · · ·	· · · ·			· · · · ·	· ·	· · · · ·	· · · · · ·
5735			· · · · ·	· · · ·	· · · ·	· · · · ·	· ·	· · · ·	· · · ·	· · · ·	· · ·	· · ·	· · · ·		· · · ·	· · · · ·	· ·	· · · ·	
5730		· ·	v	 	· · · ·	· · · · ·	· ·		· · ·	· · · ·	· · ·	· · ·	  		· · · ·	 	· ·		· · · · · ·
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5725																			





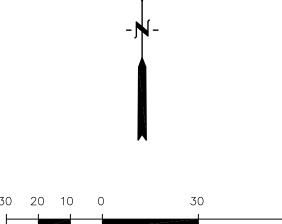
4" UNDERDRAIN SEE SEWER/WATER PLANS	NUCKLE "B	«	6 8''W 8''W - 8''W 8''W - 55 8 - 55 8 - 7 PCR	8''W 12+00 12+26.67, - 16.17'RT FL=5771.72 67	t to	D DRIVE	C/L CURVE R=52.00', L=81.68' $\Delta$ =90'00'00" STA 13+05.01, 21.20'LT (HALIF STA 1+48.56 (KNUCKLE B) FL=5771.57 STA 27+90.45 (MUMFOI STA 13+24.94 (HALIFA) STA 13+24.94 (HALIFA) STA 13+24.94 (HALIFA) STA 13+24.94 (HALIFA)	AX)= CUR C2 C2 C2 C2 C2 C2 C2 C2 C2 C2	CURVE CURVE CURVE LENGTH R/ 2 22.02' 4 3 126.54' 5 4 56.28' 3 5 31.42' 2	ADIUS         DEI           I8.83         25*50           I8.83         25*50           51.17         141*4           35.83         90*00           20.00         90*00	_TA TA 	DESCRIPTIONDATEDESCRIPTIONDATEDESCRIPTIONDATEEASTPREPARED FOR: DRANCH Z12 N. WAHSATCH AVE, SUITE 301 COLORADO SPRINGS, COLORADO 80903DR212 N. WAHSATCH AVE, SUITE 301 COLORADO SPRINGS, COLORADO 80903DR212 N. WAHSATCH AVE, SUITE 301 COLORADO SPRINGS, COLORADO 80903DR(719) 635-3200 CONTACT: JEFF MARK
0+00 (KNUCKLE B) 12+10.08, 16.17'LT (HAL 5771.21 5770 5770 5775	0+65 -	HIGH POINT E HIGH POINT PVI STA PVI ELEV 4.D. =	ELEV = 5772.78 STA = 0+84.31 A = 0+85 = 5773.00 = -4.36 = 9.17	9. <u>58 (KNUCKLE B)</u> 24.94, 16.17'LT (HALIFAX) 90.45, 16.17'RT (MUMFOR 97	D)			30	20 10 0	<b>1 -</b> 30	60	NO. 3 NO. 3 NO
		· · · · · · · · · · · · · · · · · · ·			HIGH POIN HIGH POIN PVI ST PVI EI A.I	T ELEV = 5772.78 T STA = 12+65.54 TA = 12+66.08 LEV = 5773.41 D. = -6.30 C = 12.69		· · · · · · · · · · · ·	SCALE:	1"=30' RIZ. 1"=30' ERT. 1"=5'		
		PVI ELEV = 5	5768.24 .69 .60 .7C		2+26.08	80.00' VC	5772.13 (MUMFORD) (HALIFAX) 53	· · · · · · · · · · · ·		· · · · · · ·	5780	ORM RIVE 13+25
		S: 10+75 :: 5767.89	VCS: 11+25 VCE: 5769.02		BVCE: 1 BVCE: 1		EVCE: 5 EVCE: 5 EVCE: 5 ELEV = 5771.1	· · · · · · · · · · · ·			5775	EET/ST FAX DF 50 TO
RADE		BVCS BVCS		3.11%				· · · · · · · · · · · ·			5770	STRE HALII STA 6+
						0 SS	.       .	· · · · · · · · · · · ·			5765	
							0 SS	· · · · · · · · · · ·			5760 5755	
					· · · · · · · · · · ·		.       .	· · · · · · · · · · · ·			5750	
							.       .	· · · · · · · · · · ·			5745	DATE: JANUARY 15, 2018 PROJECT NO.
· · · · · · · · · · · · · · · · · · ·	)+00		)0		12+	00	13+	· · · · · · · · · · · · · · · · · · ·			5740	100.049 SHEET NUMBER C6.4 TOTAL SHEETS: 14



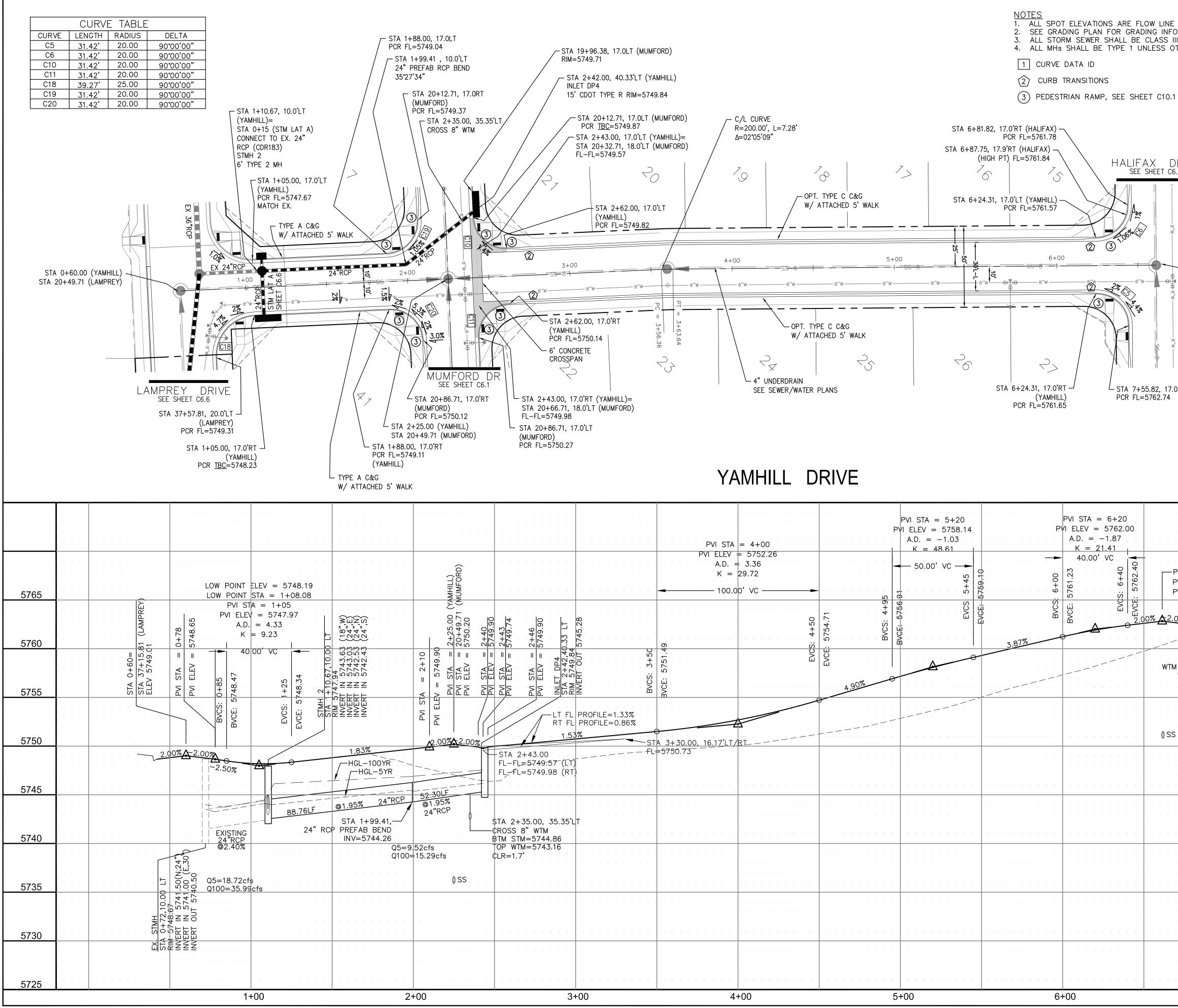




CURVE TABLE										
CURVE	LENGTH	RADIUS	DELTA							
C1	22.02'	48.83	25°50'31"							
C2	22.02'	48.83	25°50'31"							
C3	126.54'	51.17	141°41'02"							
C4	56.28'	35.83	90 <b>°</b> 00'00"							
C5	31.42'	20.00	90°00'00"							
C6	31.42'	20.00	90°00'00"							

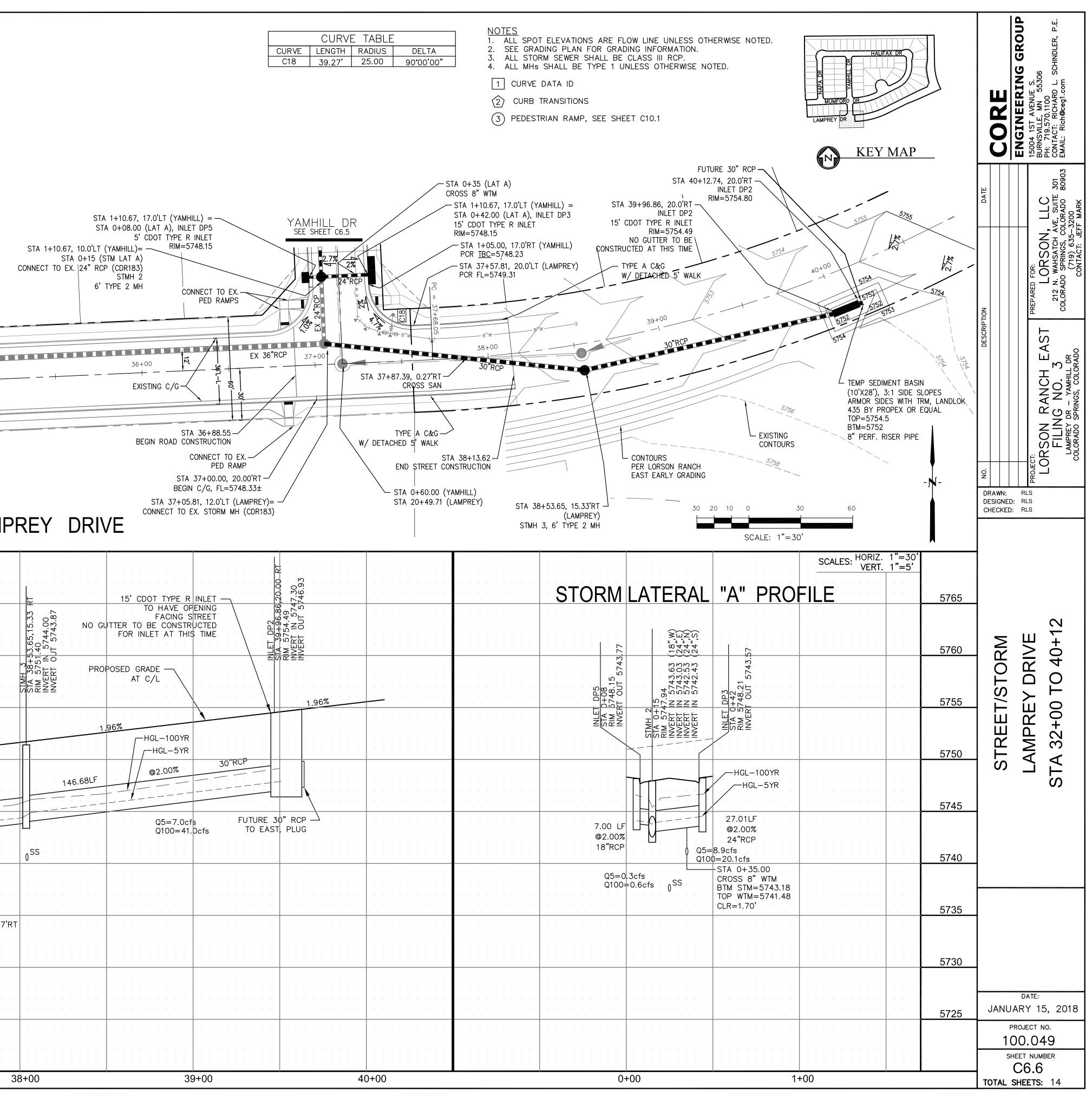


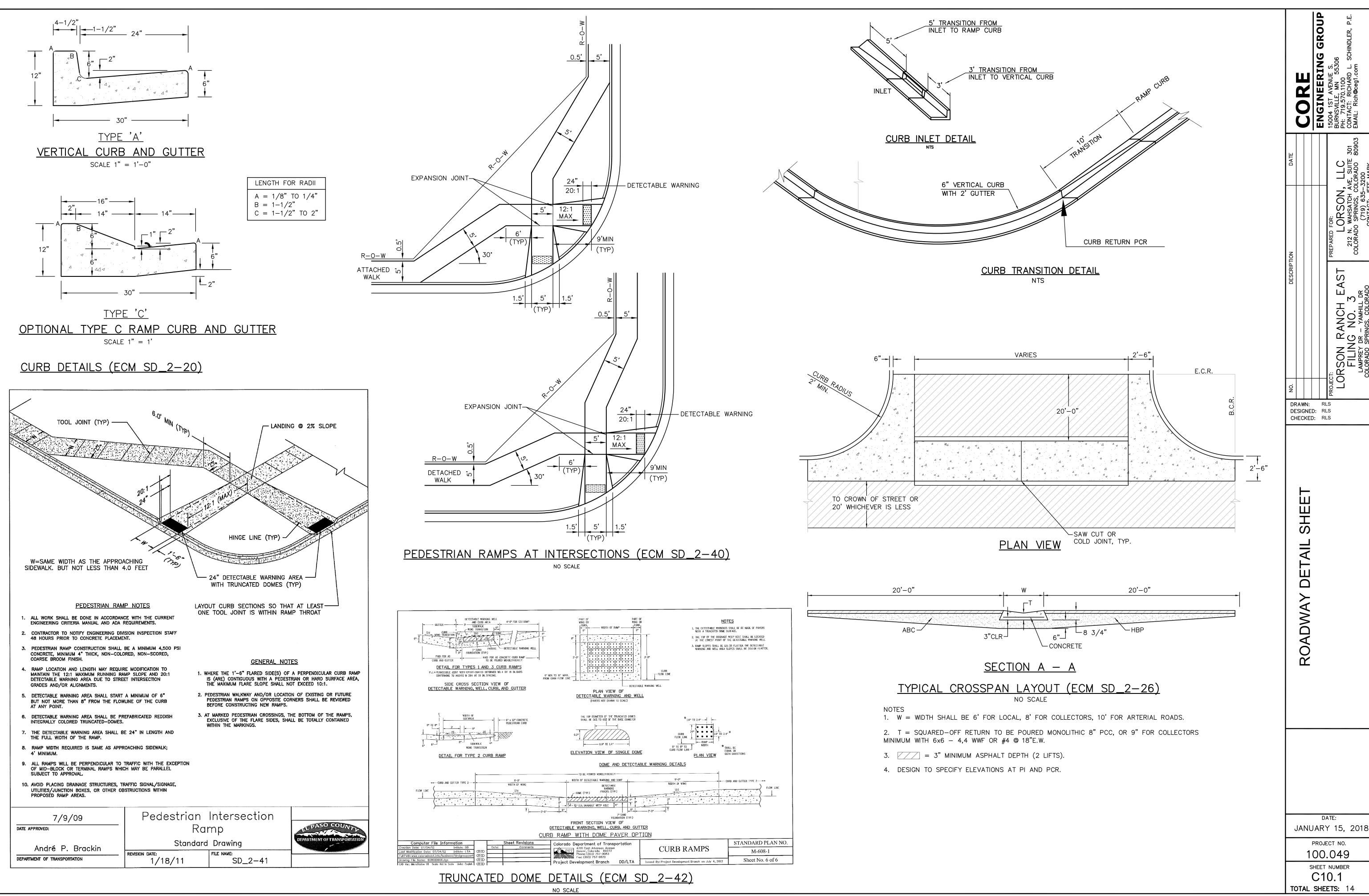




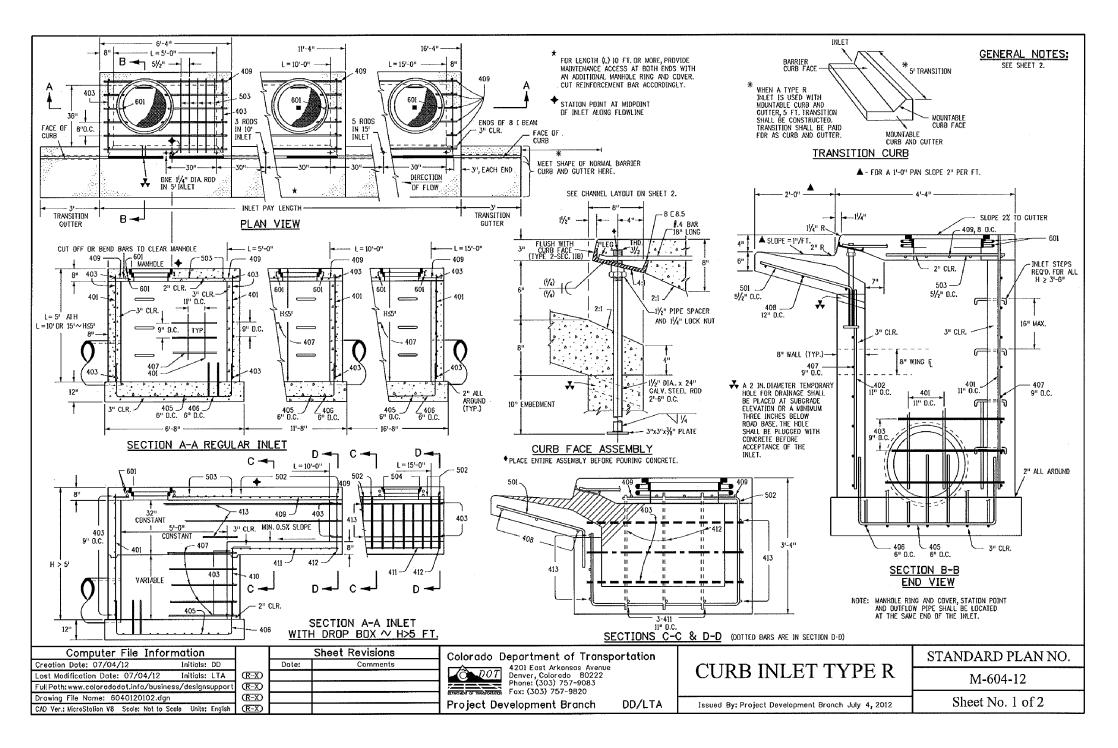
STA 19+96.38, 17.0LT (MUMFORD) RIM=5749.71 - STA 2+42.00, 40.33'LT (YAMHILL) INLET DP4 15' CDOT TYPE R RIM=5749.84 STA 20+12.71, 17.0LT (MUMFORI PCR IBC=5749.87 STA 2+43.00, 17.0'LT (YAMHILL) STA 20+32.71, 18.0'LT (MUMFOR FL-FL=5749.57 STA 2+62.00, 17.0'LT (YAMHILL) PCR FL=5749.82 3+00 8''W 1 17.0'LT STA 12+62.00, 17.0'LT 1 15.0'LT 1 15.0'	= Δ=02°05'0	D', L=7.28'	STA 6+	2. SEE GR 3. ALL ST 4. ALL MH 1 CURVE 2 CURB 3 PEDES 6+81.82, 17.0'RT (HALIFAX) PCR FL=5761.78 87.75, 17.9'RT (HALIFAX) – (HIGH PT) FL=5761.84 6+24.31, 17.0'LT (YAMHILL) PCR FL=5761.57 6+24.31, 17.0'LT (YAMHILL) PCR FL=5761.57 6+24.31, 17.0'LT (YAMHILL) CR FL=5761.57 6+24.57 6+25.57	ADING PLAN FOR GRA ORM SEWER SHALL BE IS SHALL BE TYPE 1 U E DATA ID TRANSITIONS STRIAN RAMP, SEE SHI HALIF SEE 2 3 100 00 00 00 00 00 00 00 00 00 00 00 00	EET C10.1	SE NOTED.	K         Image: state stat		Description     Date       Description     Description       Description     Descript
D.27	YAMH	HILL DRIVE	PVI STA = 5+20 PVI ELEV = 5758.14	· · · · · · · · · · · · · · · · · · ·	PVI STA = 6+20 PVI ELEV = 5762.00		30 20	SCALE: 1"=30' SCALE: 1"=30' SCALES: HORIZ. 1"=30' VERT. 1"=5'	60	DRAWN: RLS DESIGNED: RLS CHECKED: RLS
	PVI STA = 4+0 PVI ELEV = 5752 A.D. = 3.36 K = 29.72 100.00' VC -	2.26	A.D. = $-1.03$ K = 48.61 $50.00' VC \longrightarrow$	+ + + + + + + + + + + + + + + + + + +	A.D. = $-1.87$ K = $21.41$		82 (HALIFAX)		5765	2 щ 9 -
40.33 LT 84 57 45.28 50 1.49		VCS: 4+50 CE: 5754.71	BVCS: 4+95 BVCE: 57569	3.87%		00%	.       .	.       .	5760	ET/STOR
EL PROFILE=1.33%		Ш <u>А</u> ,	20%						5755	STREE YAMH STA 0+(
FL PROFILE=0.86% 1.53% STA 3+3 STA 3+3 (LT) (RT)	0.00, <u>16.17'LT/RT</u> 73			· · · · · · · · · · · · · · · · · · ·					5750	
35'LT			.       .	.     .     .     .     .     .     .     .     .       .     .     .     .     .     .     .     .     .       .     .     .     .     .     .     .     .     .			.     .     .     .     .     .     .       .     .     .     .     .     .     .       .     .     .     .     .     .     .       .     .     .     .     .     .     .		5745	
							.       .		5740 5735	
									5730	DATE: JANUARY 15, 2018 PROJECT NO.
3+00	4+00		5+00	· · · · · · · · · · · · · · · · · · ·	5+00	7+00			5725	100.049 SHEET NUMBER C6.5 TOTAL SHEETS: 14

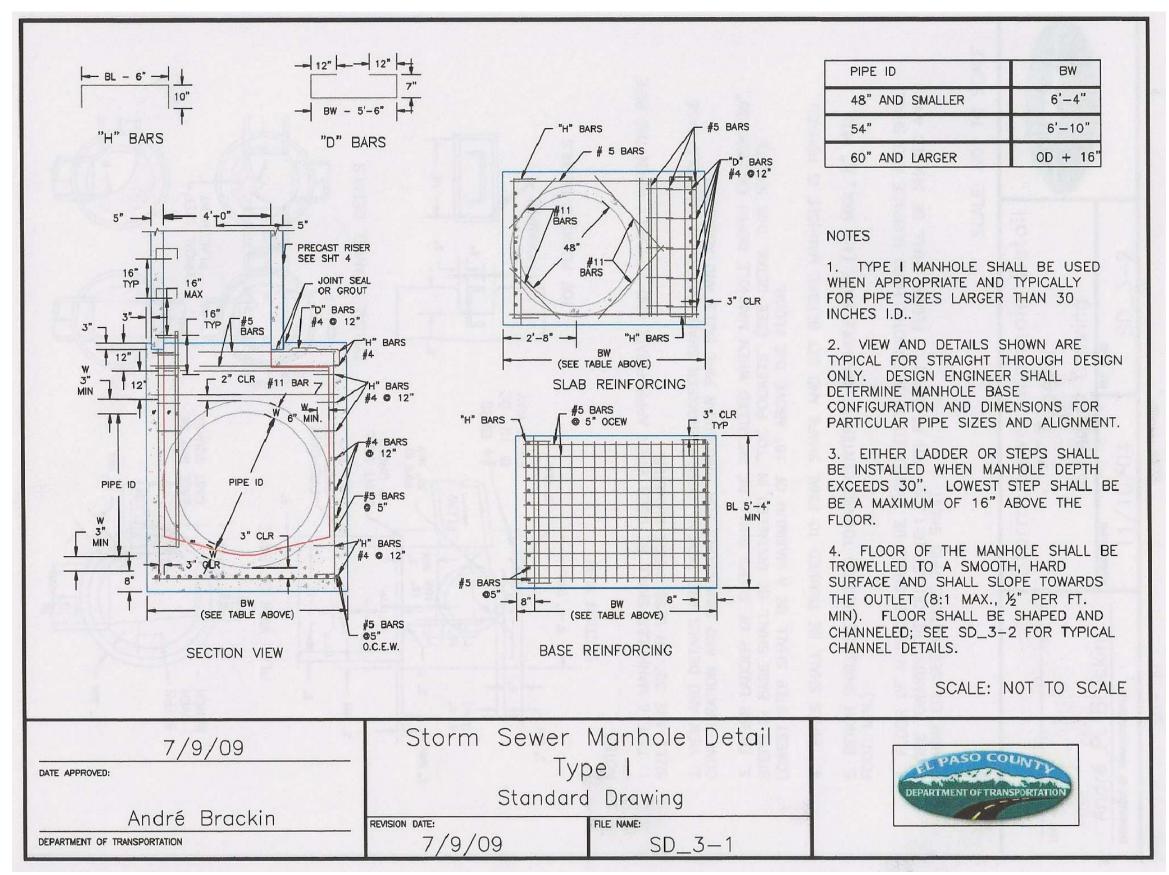
SHAVERS SEE CDR	S DR 183	- STA 32+02 CONNECT TO EX. PED RAMP			PROPOSED 5'- DETACHED SIDEWALK, 4' BEHIND CURB		
32+00  EXISTING C,	/G-		33+00		34+00		35+00 
							LAMP
5765 5760				37+05.81,12.00 LT 5748.67 ERT IN 5741.50 (N,24") ERT IN 5741.00 (E,30") ERT OUT 5740.50	37+15.81 (LAMPREY) 0+60.00 (YAMHILL) 65749.01		
<u>5755</u> 5750			STA 36+88 BEGIN PAVE	RIM INVE INVE			
<u>5745</u> 5740		.		EXISTING 	USS CON		30"RCP
5735 5730						NECT TO MH OVE EX. PLUG ST CR BT TO CL	A 37+87.39, 0.27'R OSS 8" SAN M STM=5742.07 P SAN=5739.95 R=2.12'
5725					3	7+00	

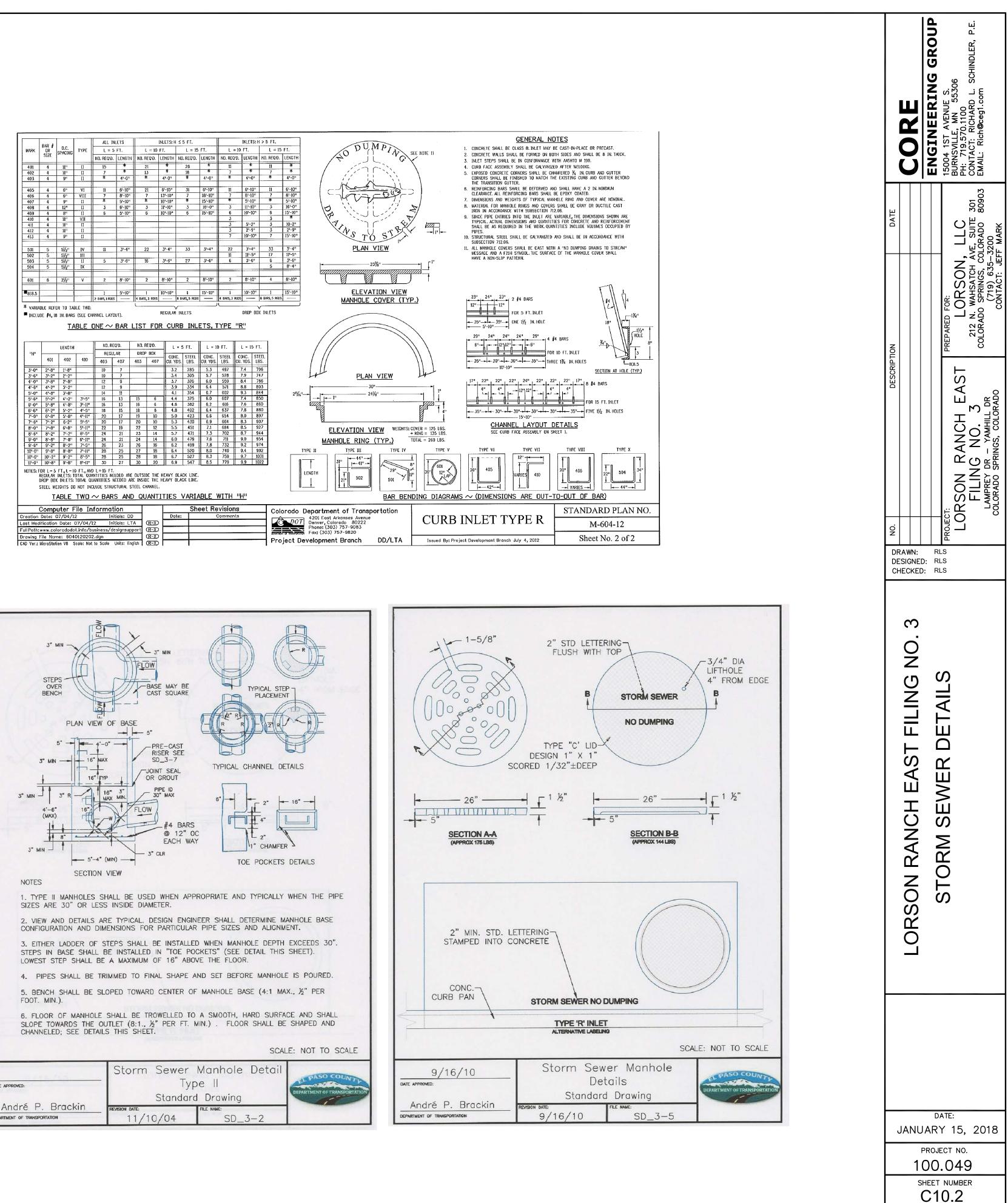




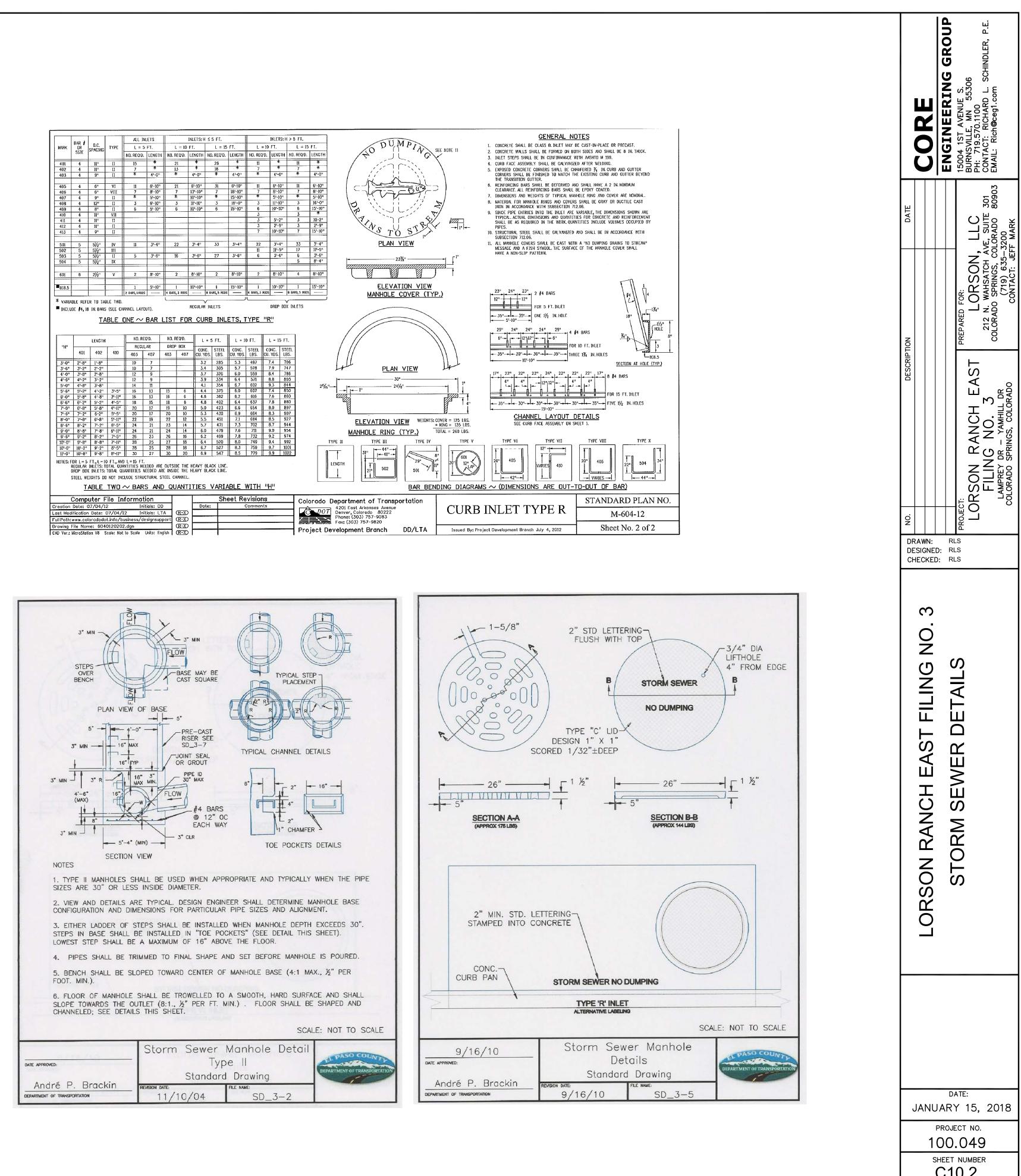
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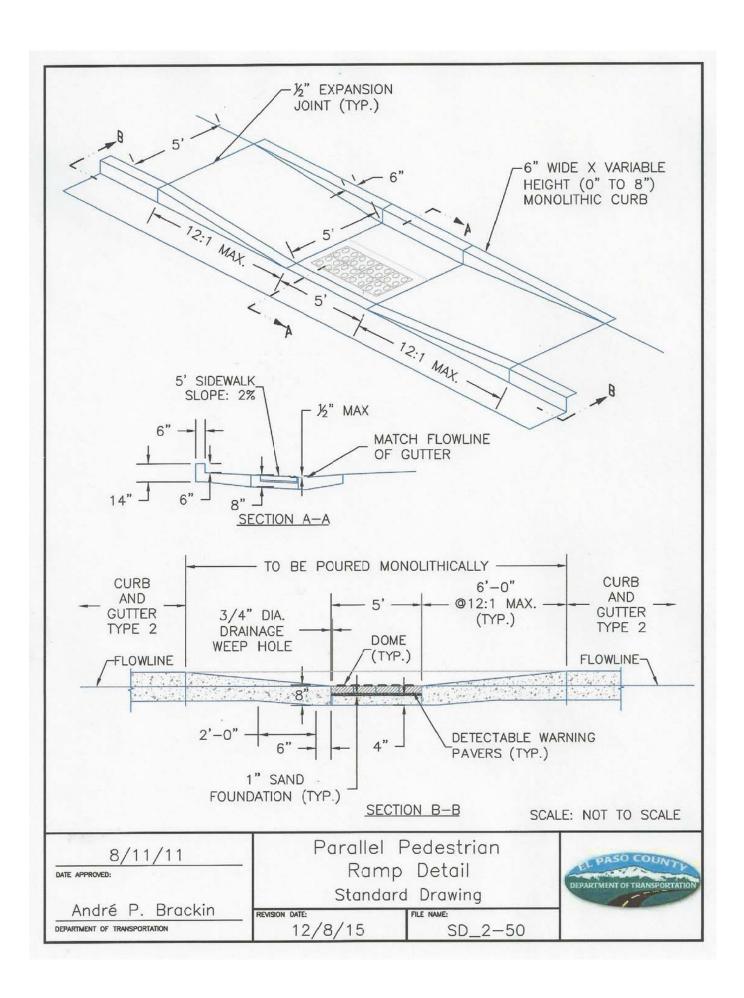






TOTAL SHEETS: 14





					15004 1ST AVENUE S.	BURNSVILLE, MN 55306 PH: 710 570 1100		EMAIL: Rich@ceg1.com			
IPTION DATE DATE					PREPARED FOR:	I ORSON, I I C	212 N. WAHSATCH AVE SUITE 301	COLORADO SPRINGS, COLORADO 80903	(719) 635–3200	CONTACT: JEFF MARK	
NO. DESCRIP					PROJECT:	I ORSON RANCH FAST			LAMPREY DR – YAMHILL DR	CULURADU SPRINGS, CULURADU	
DE		/N: SNE[ KED		RL RL RL	.S .S						
	JA	1	<sup>-</sup> R		С	:: 15 • NC <b>)4</b>	). 9	20	018	3	
тс	C10.3 TOTAL SHEETS: 14										

## Markup Summary

