

2290 OLD RANCH ROAD

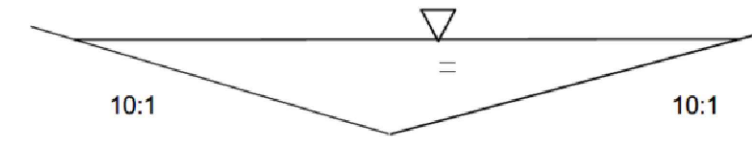
LOTS 8, BLOCK E, AMENDED FILING OF SPRINGS CREST SUBDIVISION
NW 1/4, SEC. 28, T.12 S., R. 66 W OF THE 6TH P.M.
COUNTY OF EL PASO, STATE OF COLORADO

GRADING LEGEND

- ← DIRECTIONAL FLOW ARROW
- - - 6885 - - - EXISTING CONTOUR
- - - 83 - - - PROPOSED CONTOUR
- x85.3 PROPOSED SPOT ELEVATION
- ZONE AE FLOODPLAIN LIMITS FOR KETTLE CREEK - F.I.R.M. NO. 08041C0506G, DEC. 7, 2018

Swale A1 - for Basins O1 + A1 flow - Grass-lined

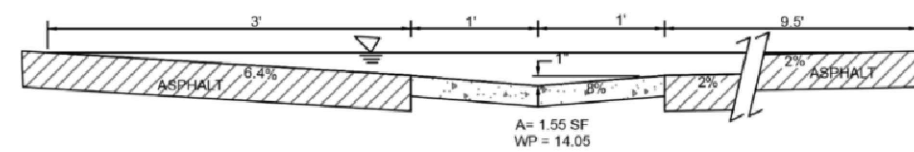
Q100 = 4.18 cfs $Q = \frac{1.486AR^{2/3}S^{1/2}}{n}$
 S = 2.1 %
 n = 0.035



D = 0.44 N = 0.035 Q = 4.37 cfs
 A = 1.94 sf. V = 2.3 fps
 WP = 8.84 ft.
 S = 0.021 %

Swale B1 for Basin B1 - Concrete and Asphalt

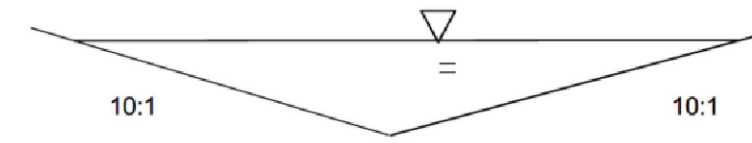
Q100 = 2.69 cfs $Q = \frac{1.486AR^{2/3}S^{1/2}}{n}$
 S = 0.7 %
 n = 0.017



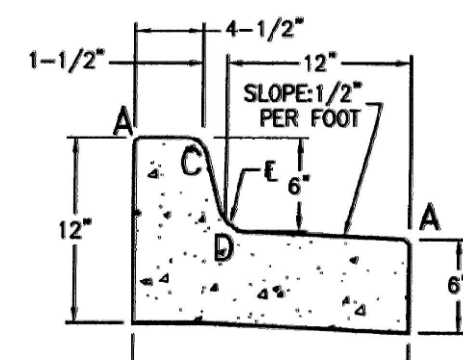
D = 0.27 N = 0.017 Q = 2.65 cfs
 A = 1.55 sf. V = 1.7 fps
 WP = 14.05 ft.
 S = 0.007 %

Swale A2 for Basins O1 + A1 + A2 flow - Grass-lined

Q100 = 4.34 cfs $Q = \frac{1.486AR^{2/3}S^{1/2}}{n}$
 S = 1.2 %
 n = 0.035

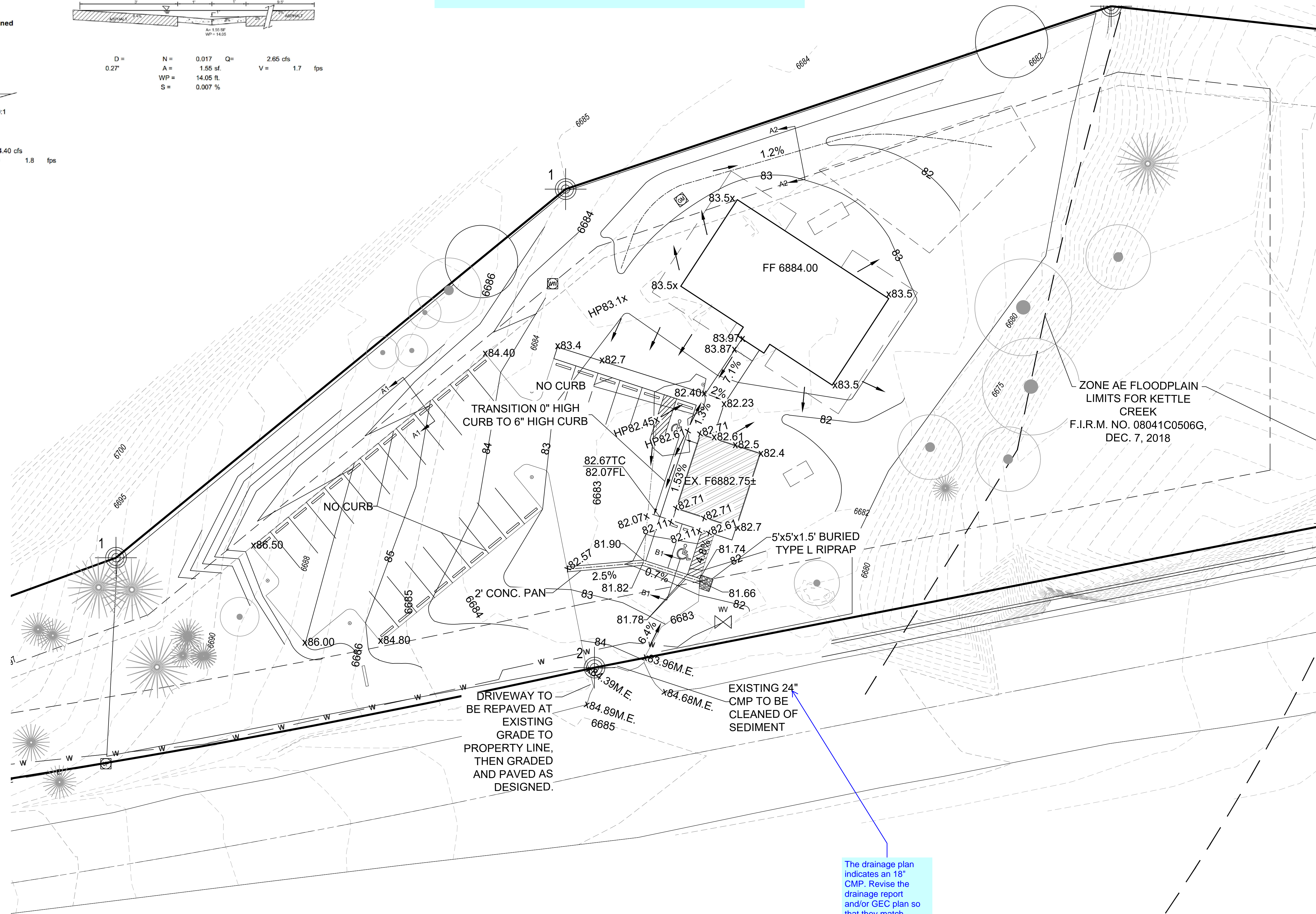


D = 0.49 N = 0.035 Q = 4.40 cfs
 A = 2.40 sf. V = 1.8 fps
 WP = 9.85 ft.
 S = 0.012 %

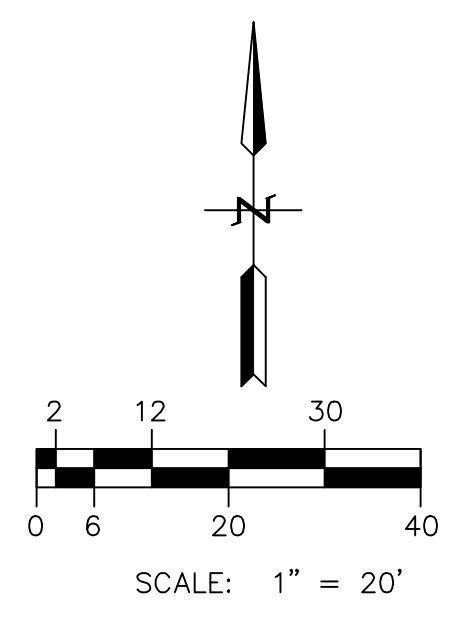


TYPE 3
STANDARD MEDIAN
CURB AND GUTTER
SCALE: 1" = 1'-0"

-Please include erosion control on the plan. Submit and address all items in the GEC checklist
 -Add standard El Paso County Grading and Erosion control Plan notes on the plan.
 -Add standard El Paso County Signature blocks.
 -Add BMP details
 -Fill out and submit a Financial Assurance Estimate Form.
 Note that additional comments may be provided with the re-submittal.



The drainage plan indicates an 18" CMP. Revise the drainage report and/or GEC plan so that they match.



BEFORE YOU DIG CALL UTILITY NOTIFICATION CENTER OF COLORADO 811 CALL 7 BUSINESS DAYS IN ADVANCE BEFORE ANY GROUND PENETRATION OR MARKING OF UNDERGROUND MEMBER UTILITIES	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DESCRIPTION									
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PREPARED BY: TRUE WEST CO. LLC 16352 E Bates Drive Aurora, CO 80013 303-583-3664 truewest@usa.net	DESCRIPTION: GRADING PLAN HOTCHKISS COMMERCIAL OFFICES 2290 OLD RANCH ROAD PREPARED FOR: JOHN HOTCHKISS 9161 ESTEBARY CIRCLE GOLDEN, COLORADO 80620-7560												
ENGINEERS SEAL:	DESIGNED BY: CLE DRAWN BY: CLE CHECKED BY: CLE DRAWER NUMBER: DATE: 8/5/2019 SCALE: 1" = 20' SHEET NUMBER: 1 OF 1												