

STREET ABBREVIATION INDEX:

S.D.	STRUTHERS DRIVE
N.B.	NORTHGATE BOULEVARD

EROSION CONTROL NOTE:
 CONTRACTOR TO ENSURE PROPER BMPs ARE TO KEEP SEDIMENT OFF ROADS. SWALE ROUTING RUNOFF AWAY FROM ROADS AND LOTS PREFERRED WITH SIGNIFICANT GRADING DISTURBANCE TO THE NORTH.

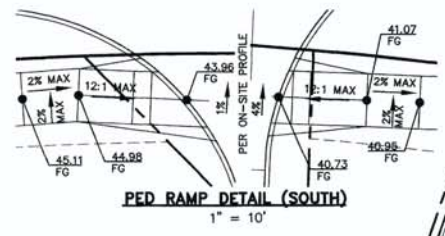


FLOWLINE LINE TABLE

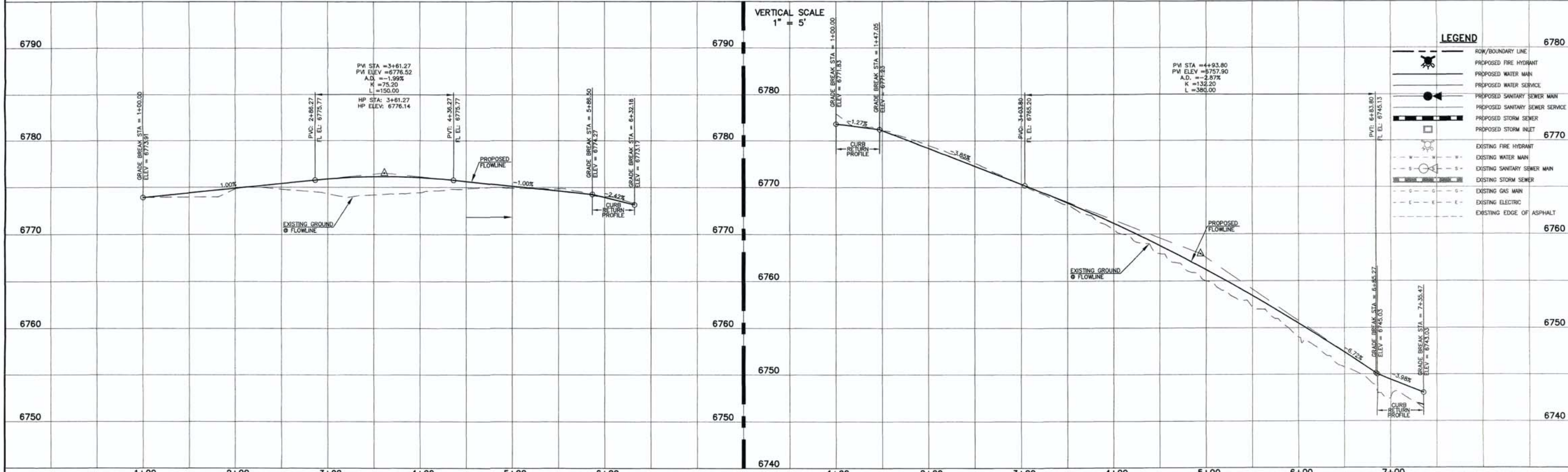
LINE	LENGTH	BEARING
L1	164.14	S41°01'31"E
L2	112.95	N67°51'19"W
L3	160.24	N63°33'38"W
L4	224.89	N67°51'19"W

FLOWLINE CURVE TABLE

CURVE	DELTA	LENGTH	RADIUS
C1	02°40'50"	46.60	898.03
C2	15°34'34"	265.77	1010.03
C3	82°14'41"	45.68	30.00
C4	89°51'22"	47.05	30.00
C5	04°25'58"	40.15	518.96
C6	95°52'09"	50.20	30.00



STRUTHERS ROAD (PUBLIC)
 (120' R.O.W.)
 DESIGN SPEED - 45 mph ARTERIAL



LEGEND

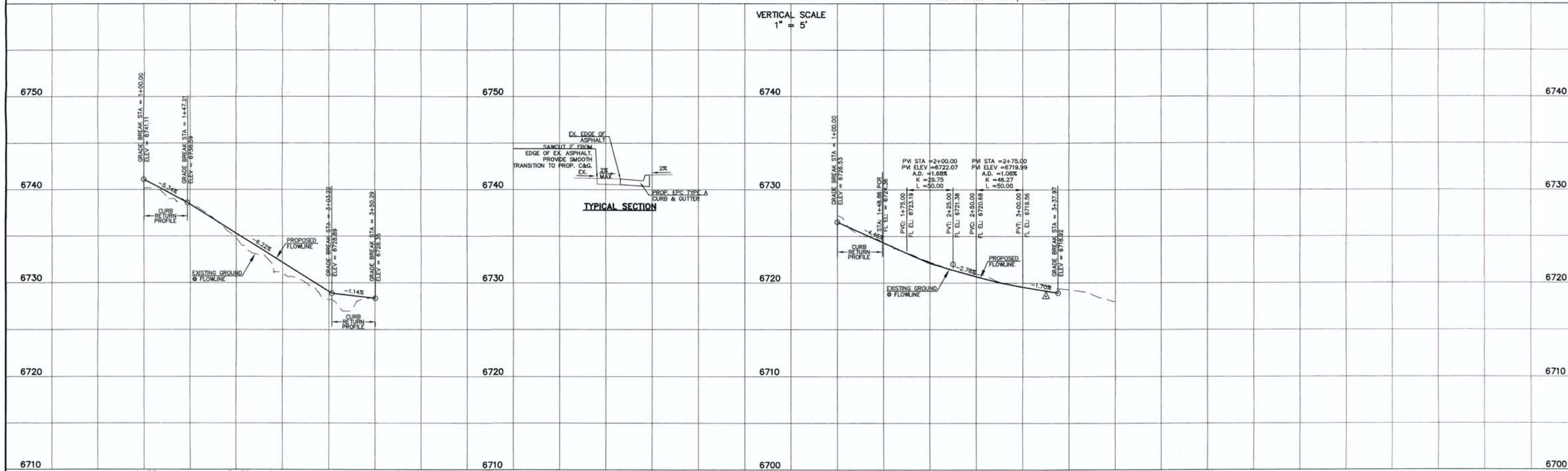
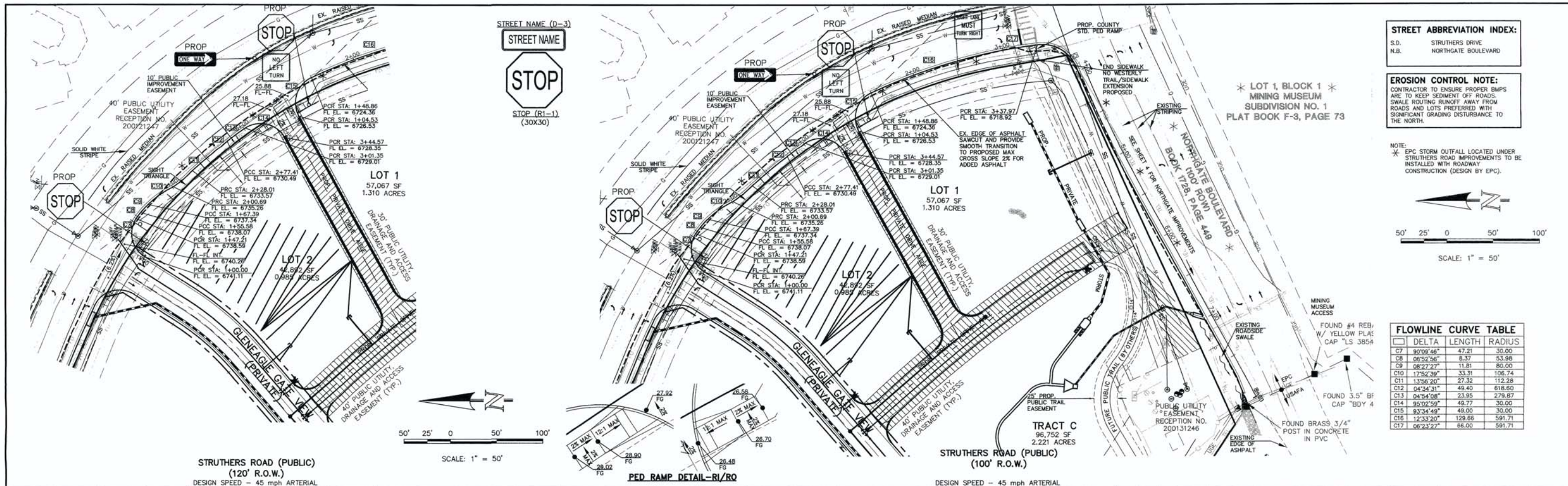
	ROW/BOUNDARY LINE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER MAIN
	PROPOSED WATER SERVICE
	PROPOSED SANITARY SEWER MAIN
	PROPOSED SANITARY SEWER SERVICE
	PROPOSED STORM SEWER
	PROPOSED STORM INLET
	EXISTING FIRE HYDRANT
	EXISTING WATER MAIN
	EXISTING SANITARY SEWER MAIN
	EXISTING STORM SEWER
	EXISTING GAS MAIN
	EXISTING ELECTRIC
	EXISTING EDGE OF ASPHALT

<p>DESIGN DATA: STRUTHERS DRIVE</p> <p>SIDEWALKS: WIDTH: 6'</p> <p>LOCATION: <input type="checkbox"/> Attached <input checked="" type="checkbox"/> Detached</p> <p>CURB TYPE: <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> D</p> <p>R/W WIDTH: 120' MAT WIDTH: 30'</p> <p>STREET TYPE: URBAN LOCAL HYEM THICKNESS: _____</p>	<p>PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/></p> <p>THICKNESS: _____</p> <p>COMPOSITE SECTION: HMA _____ BASE _____ SUBGRADE STABILIZATION: CHEMICAL: <input type="checkbox"/> MECH: <input type="checkbox"/></p> <p>TYPE: _____ THICKNESS: _____</p>	<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811</p> <p>UTILITY NOTIFICATION OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>NO. REVISION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS</td> </tr> <tr> <td>2</td> <td>EPC COMMENTS</td> </tr> </tbody> </table> <p>REVIEW: PREPARED UNDER MY LICENSE AND THE SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC</p> <p style="text-align: center;"> KYLE R. CAMPBELL, P.E. #29794 </p> <p>DATE: 6/30/17</p>	NO. REVISION	DATE	1	1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS	2	EPC COMMENTS
NO. REVISION	DATE								
1	1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS								
2	EPC COMMENTS								

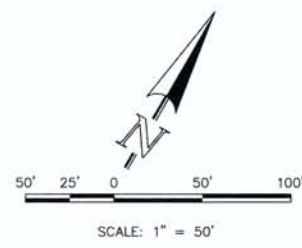
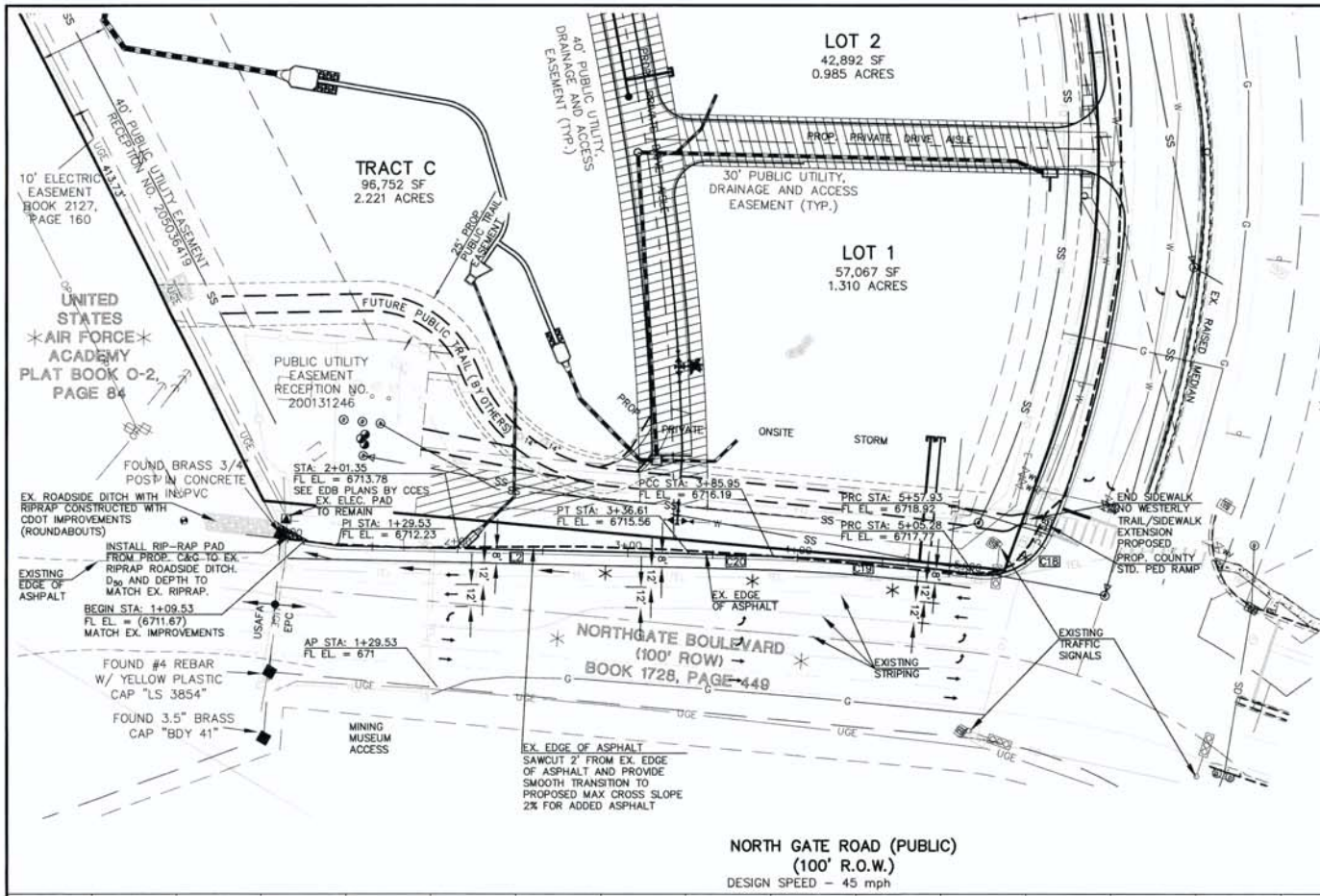
CLASSIC CONSULTING ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719)785-0790 (719)785-0799(Fax)

ACADEMY GATEWAY SUBDIVISION			
FILING NO. 1-STREET IMPROVEMENT PLAN			
STRUTHERS ROAD			
STA. 1+00.00 TO STA. 6+32.18 & 7+35.47			
DESIGNED BY	KRC	SCALE	DATE 10/17/16
DRAWN BY	KC	(H) 1" = 50'	SHEET 2 OF 13
CHECKED BY	KRC	(V) 1" = 5'	JOB NO. 2507.00



DESIGN DATA: STRUTHERS DRIVE SIDEWALKS: WIDTH: 6' LOCATION: <input type="checkbox"/> Attached <input checked="" type="checkbox"/> Detached CURB TYPE: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D R/W WIDTH: 120' MAT WIDTH: 30' STREET TYPE: URBAN LOCAL HVEEM: _____	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS: _____ COMPOSITE SECTION HMA: _____ BASE: _____ SUBGRADE STABILIZATION: _____ CHEMICAL: <input type="checkbox"/> MECH: <input type="checkbox"/> TYPE: _____ THICKNESS: _____	48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION OF COLORADO IT'S THE LAW THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	NO. REVISION 1 1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS 3/15/17 2 EPC COMMENTS 4/19/17	DATE 3/15/17 4/19/17	REVISION: PREPARED UNDER CLOSEST SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC KYLE R. CAMPBELL P.E. #29794 DATE: 4/20/17	CLASSIC CONSULTING ENGINEERS & SURVEYORS 819 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719)785-0790 (719)785-0799(Fax)	ACADEMY GATEWAY SUBDIVISION FILING NO. 1-STREET IMPROVEMENT PLAN STRUTHERS ROAD STA. 1+00.00 TO STA. 3+37.97 DESIGNED BY: KRC SCALE: (H) 1" = 50' DATE: 10/17/16 DRAWN BY: KC (V) 1" = 5' SHEET 3 OF 13 CHECKED BY: KRC (V) 1" = 5' JOB NO.: 2507.00



FLOWLINE LINE TABLE		
LINE	LENGTH	BEARING
L2	236.61	N61°17'12"E

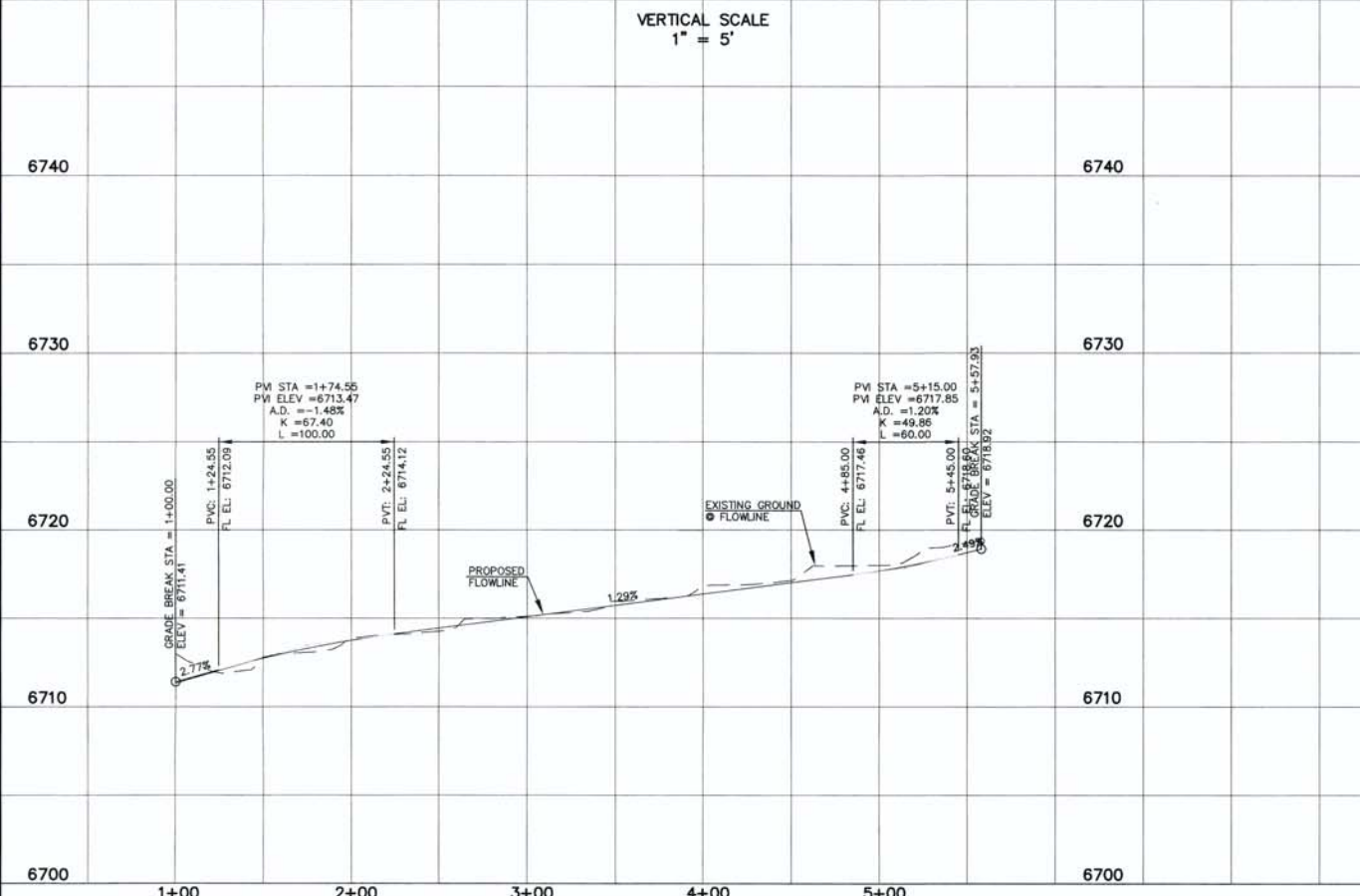
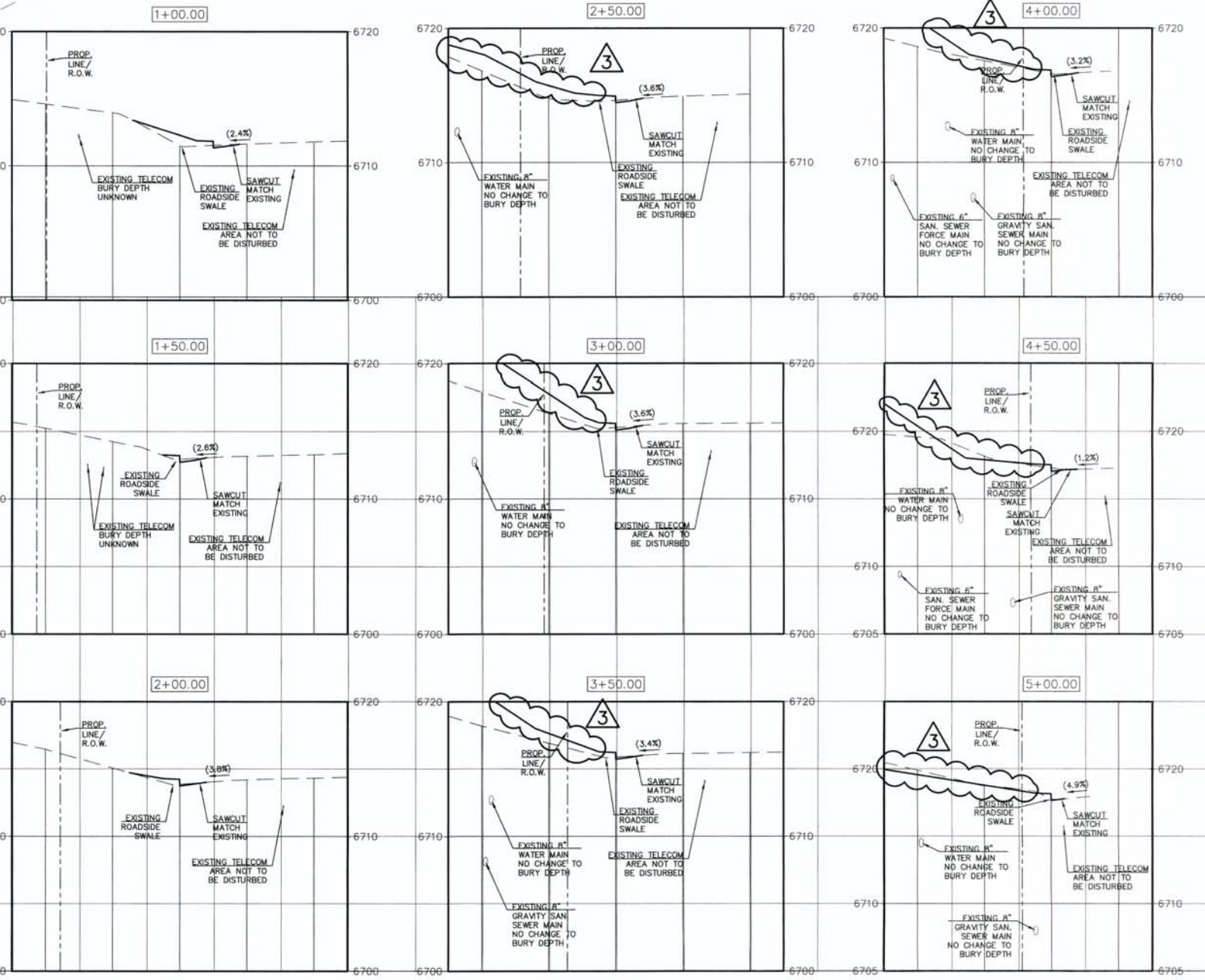
FLOWLINE CURVE TABLE			
LINE	DELTA	LENGTH	RADIUS
C18	75°24'32"	52.65	40.00
C19	06°29'21"	119.34	1053.65
C20	00°40'04"	49.34	4233.73

STREET ABBREVIATION INDEX:	
S.D.	STRUTHERS DRIVE
N.B.	NORTHGATE BOULEVARD



EROSION CONTROL NOTE:
 CONTRACTOR TO ENSURE PROPER BMP'S ARE TO KEEP SEDIMENT OFF ROADS. SWALE ROUTING RUNOFF AWAY FROM ROADS AND LOTS PREFERRED WITH SIGNIFICANT GRADING DISTURBANCE TO THE NORTH.

NOTE:
 * EPC STORM OUTFALL LOCATED UNDER STRUTHERS ROAD IMPROVEMENTS TO BE INSTALLED WITH ROADWAY CONSTRUCTION (DESIGN BY EPC).



DESIGN DATA: STRUTHERS DRIVE SIDEWALKS: WIDTH: 6' LOCATION: <input type="checkbox"/> Attached <input checked="" type="checkbox"/> Detached CURB TYPE: <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> D R/W WIDTH: 120' MAT WIDTH: 30' STREET TYPE: URBAN LOCAL HVEEM	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS: _____ COMPOSITE SECTION: HMA _____ BASE _____ SUBGRADE STABILIZATION: _____ CHEMICAL: <input type="checkbox"/> MECH.: <input type="checkbox"/> TYPE: _____ THICKNESS: _____	48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION OF COLORADO IT'S THE LAW THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	NO. REVISION 1 1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS 3/15/17 2 EPC COMMENTS 4/19/17 3 REVISED GRADING 8/4/17	REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC. KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE: 8/17/17	CLASSIC CONSULTING ENGINEERS & SURVEYORS 619 N. Cascade Avenue, Suite 200 (719)785-0790 Colorado Springs, Colorado 80903 (719)785-0799(Fax)	ACADEMY GATEWAY SUBDIVISION FILING NO. 1-STREET IMPROVEMENT PLAN NORTH GATE ROAD STA. 1+00.00 TO STA. 5+57.93 DESIGNED BY: KRC SCALE: (H) 1" = 50' DATE: 10/17/16 DRAWN BY: KC (V) 1" = 5' SHEET 4 OF 13 CHECKED BY: KRC JOB NO. 2507.00
			DESIGN DATA: STRUTHERS DRIVE SIDEWALKS: WIDTH: 6' LOCATION: <input type="checkbox"/> Attached <input checked="" type="checkbox"/> Detached CURB TYPE: <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> D R/W WIDTH: 120' MAT WIDTH: 30' STREET TYPE: URBAN LOCAL HVEEM			

TOOL JOINT (TYP)
0.5" MIN (TYP)
LANDING @ 2% SLOPE
HINGE LINE (TYP)
24" DETECTABLE WARNING AREA WITH TRUNCATED DOME (TYP)

W/SAME WIDTH AS THE APPROACHING SIDEWALK, BUT NOT LESS THAN 4.0 FEET

PEDESTRIAN RAMP NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND AIA REQUIREMENTS.
- CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTOR STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
- PEDESTRIAN RAMP CONSTRUCTION SHALL BE A MINIMUM 3000 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SOURED, COARSE BROOM FINISH.
- RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 12:1 MAXIMUM RUNNING RAMP SLOPE AND 20:1 DETECTABLE WARNING AREA DUE TO STREET INTERSECTION DRIVES AND/OR ALIGNMENTS.
- DETECTABLE WARNING AREA SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLUME OF THE CURB AT ANY POINT.
- THE DETECTABLE WARNING AREA SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
- RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK, 4' MINIMUM.
- ALL RAMPES WILL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID-BLOCK OR TERMINAL RAMPES WHICH MAY BE PARALLEL, SUBJECT TO APPROVAL.
- AVOID PLACING DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNALING, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED RAMP AREAS.

GENERAL NOTES

- WHERE THE 1"-4" FLARED SIDINGS OF A PERPENDICULAR CURB RAMP IS (ARE) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA, THE WARNING FLARE SLOPE SHALL NOT EXCEED 10:1.
- PEDESTRIAN RAMP AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMPES ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMPES.
- IF MINOR PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMP, EXCLUSIVE OF THE FLARE SIDING, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.

LAYOUT CURB SECTIONS SO THAT AT LEAST ONE "TOOL JOINT IS WITHIN RAMP THROAT

1/1/08
DATE APPROVED: John A. McCarty
DEPARTMENT OF TRANSPORTATION

Pedestrian Intersection Ramp
Standard Drawing
7/09/07
FILE NAME: SD_2-41

EPC TYPE A (REVERSE SLOPE OF PAN FOR SPILL CURB)

EPC TYPE B

EPC TYPE C (REVERSE SLOPE OF PAN FOR SPILL CURB)

LEGEND FOR RAMP

A	1/4" x 1/4"
B	1-1/2"
C	1-1/2" TO 2"

SCALE: NOT TO SCALE

12/31/05
DATE APPROVED: John A. McCarty
DEPARTMENT OF TRANSPORTATION

Typical Curb and Gutter Details
Standard Drawing
12/22/05
FILE NAME: SD_2-20

PLAN VIEW

VARIES
6"
2'-6"
2'-0"
2'-6"
E.C.R.
B.C.R.
2'-6"
2' MIN.
CURB RADIUS
TO CROWN OF STREET OR 20", WHICHEVER IS LESS
SAW CUT OR COLD JOINT (TYP)

SECTION A-A

20'-0"
W
20'-0"
3" CLR.
6"
8 3/4"
CONCRETE
HBP

NOTES

- W - WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.
- T - SQUARED-OFF RETURN TO BE POURED MONOLITHIC 8" PCC OR 9" FOR COLLECTORS MINIMUM WITH 6x6 - 4.4 W.W.F. OR #4 @ 18 E.W.
- ASPHALT = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
- DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

DRAFT
SCALE: NOT TO SCALE

11/10/04
DATE APPROVED: John A. McCarty
DEPARTMENT OF TRANSPORTATION

Typical Cross Pan Layout Detail
Standard Drawing
11/10/04
FILE NAME: SD_2-26

TRUNCATED DOME DETAILS

DOME SPACING

ELEVATION VIEW

THE TOP DIAMETER OF THE TRUNCATED DOME SHALL BE SOME 5% OF THE BASE DIAMETER.

1" x 1" MIN - 2.5" MAX (EQUAL BOTH DIRECTIONS)

1/1/08
DATE APPROVED: John A. McCarty
DEPARTMENT OF TRANSPORTATION

Truncated Dome Details
Standard Drawing
7/09/07
FILE NAME: SD_2-42

DETAIL FOR TYPES 1 AND 3 CURB RAMPES

P.A. - PERMISSIBLE JOINT WITH SPOT-CASTED RETURNED NO. 4 BY 36 IN BARS CONFORMING TO AASHTO M 284 AT 36 IN SPACING

SIDE CROSS SECTION VIEW OF DETECTABLE WARNING CURB AND GUTTER

PLAN VIEW OF DETECTABLE WARNING

DETAIL FOR TYPE 2 CURB RAMP

ELEVATION VIEW OF DETECTABLE WARNING PLATE

FRONT SECTION VIEW OF DETECTABLE WARNING CURB AND GUTTER

CURB RAMP WITH A TRUNCATED DOME SURFACE PLATE

NOTES

- THE TRUNCATED DOME PLATE SHALL BE EMBEDDED IN THE CONCRETE CURB RAMP WHILE CONCRETE IS PLACING.
- THE TRUNCATED DOME PLATE TO BE USED SHALL BE ON THE GOST APPROVED PRODUCT LIST.
- WHEN DETECTABLE WARNING SURFACE IS CUT, GRIND OFF REMAINING PORTION OF ANY CUT DOME SEAL ALL CUT PAVED EDGES TO PREVENT WATER DAMAGE.

Computer File Information
Creation Date: 07/09/07
Last Modification Date: 05/05/10
Full Path: www.dts.state.co.us/DesignSupport/...
Drawing File Name: 60803006.dgn
CAD Ver: MicroStation V8
Scale: Not to Scale
Units: English

Sheet Revisions
Date: 05/05/10
Comments: Added the Plate option

Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9623
Fax: (303) 757-9820

Project Development Branch
DD/LTA
Issued By: Project Development Branch on July 04, 2008

CURB RAMPES
STANDARD PLAN NO. M-608-1
Sheet No. 5 of 6

DETAIL FOR TYPES 1 AND 3 CURB RAMPES

P.A. - PERMISSIBLE JOINT WITH SPOT-CASTED RETURNED NO. 4 BY 36 IN BARS CONFORMING TO AASHTO M 284 AT 36 IN SPACING

SIDE CROSS SECTION VIEW OF DETECTABLE WARNING, WELL, CURB, AND GUTTER

PLAN VIEW OF DETECTABLE WARNING AND WELL

DETAIL FOR TYPE 2 CURB RAMP

ELEVATION VIEW OF SINGLE DOME

DOME AND DETECTABLE WARNING DETAILS

FRONT SECTION VIEW OF DETECTABLE WARNING, WELL, CURB, AND GUTTER

CURB RAMP WITH DOME PAVER OPTION

NOTES

- THE DETECTABLE WARNING SHALL BE MADE OF PAVERS WITH A TRUNCATED DOME SURFACE.
- THE TOP OF THE DRAINAGE WEEP HOLE SHALL BE LOCATED AT THE LOWEST POINT OF THE DETECTABLE WARNING WELL.
- RAMP SLOPES SHALL BE 12:1 OR FLATTER. THE DETECTABLE WARNING AND WELL AREA SLOPES SHALL BE 2:12 OR FLATTER.

Computer File Information
Creation Date: 07/09/06
Last Modification Date: 05/05/10
Full Path: www.dts.state.co.us/DesignSupport/...
Drawing File Name: 60803006.dgn
CAD Ver: MicroStation V8
Scale: Not to Scale
Units: English

Sheet Revisions
Date: 05/05/10
Comments: Added Paver option

Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9623
Fax: (303) 757-9820

Project Development Branch
DD/LTA
Issued By: Project Development Branch on July 04, 2008

CURB RAMPES
STANDARD PLAN NO. M-608-1
Sheet No. 6 of 6

DESIGN DATA: STRUTHERS RD-NORTH GATE RD

PAVEMENT: TYPE: HMA PCC

THICKNESS: _____

COMPOSITE SECTION: HMA BASE SUBGRADE STABILIZATION: _____

CHEMICAL: MECH:

TYPE: _____

THICKNESS: _____

SIDEWALKS: WIDTH: 6'
LOCATION: Attached Detached

CURB TYPE: A B C

R/W WIDTH: 120'-100' MAT WIDTH: 9'

STREET TYPE: URBAN LOCAL HVEEM _____

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION OF COLORADO
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS	3/15/17
2	EPC COMMENTS	4/19/17

PREPARED UNDER THE CLOSE SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC

29794

KYLE R. CAMPBELL, P.E., P.S.

DATE: _____

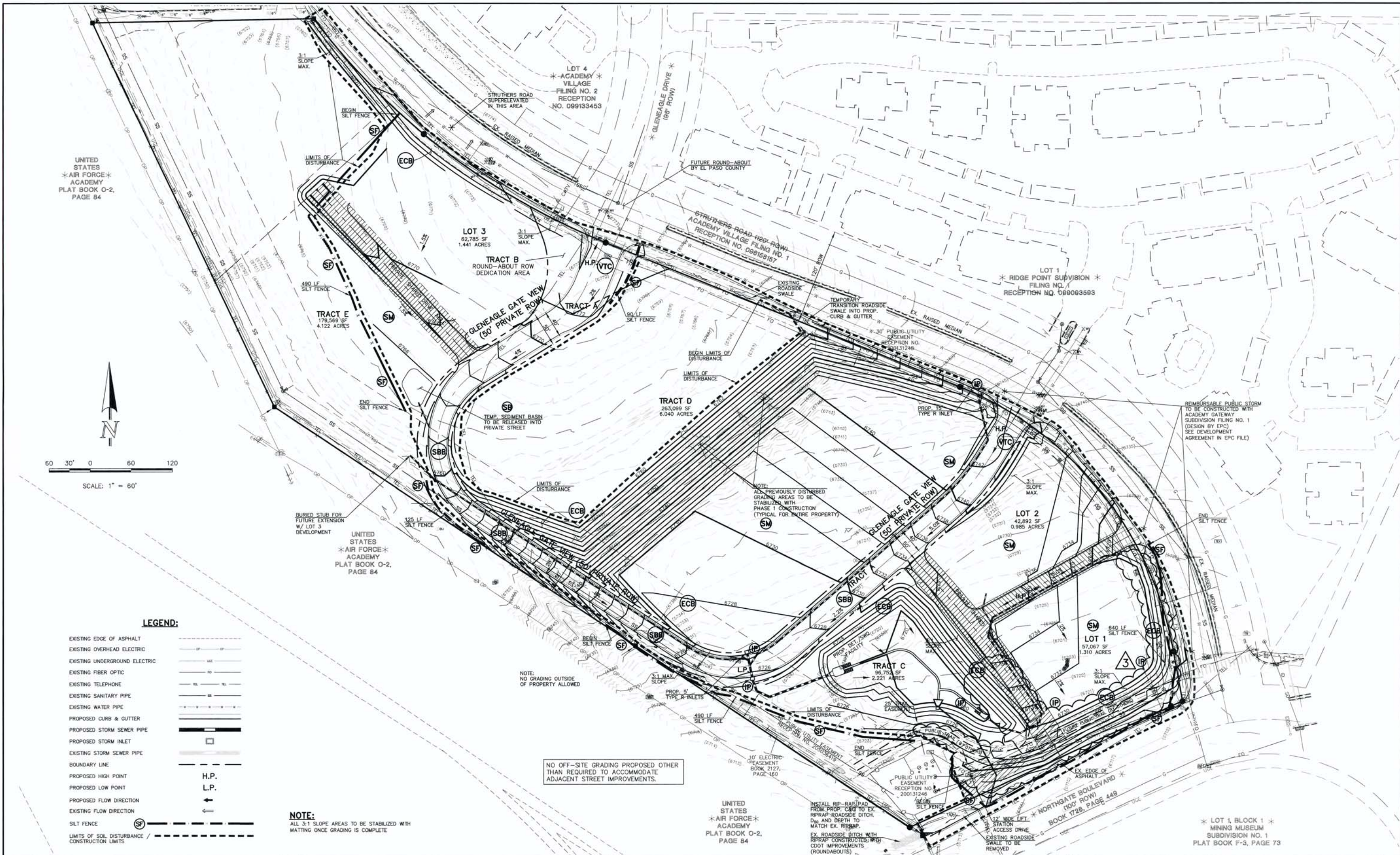
CLASSIC CONSULTING ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903

(719) 785-0790
(719) 785-0799 (fax)

ACADEMY GATEWAY SUBDIVISION
FILING NO. 1-STREET IMPROVEMENT PLAN
DETAIL SHEET

DESIGNED BY:	KRC	SCALE:	DATE:	10/17/16
DRAWN BY:	KC	(H) 1" = N/A	SHEET:	5 OF 13
CHECKED BY:	KRC	(V) 1" = N/A	JOB NO.:	2507.00



UNITED STATES
AIR FORCE
ACADEMY
PLAT BOOK O-2,
PAGE 84



60 30' 0 60 120
SCALE: 1" = 60'

LEGEND:

- EXISTING EDGE OF ASPHALT
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING TELEPHONE
- EXISTING SANITARY PIPE
- EXISTING WATER PIPE
- PROPOSED CURB & GUTTER
- PROPOSED STORM SEWER PIPE
- PROPOSED STORM INLET
- EXISTING STORM SEWER PIPE
- BOUNDARY LINE
- PROPOSED HIGH POINT
- PROPOSED LOW POINT
- PROPOSED FLOW DIRECTION
- EXISTING FLOW DIRECTION
- SILT FENCE
- LIMITS OF SOIL DISTURBANCE / CONSTRUCTION LIMITS

LEGEND

- (TS) (SM) SEEDING OR MULCH
- (IP1) BLOCK & ROCK SOCK INLET PROTECTION
- (IP6) STRAW BALE INLET PROTECTION
- (VTC) VEHICLE TRACKING CONTROL
- (SBB) STRAW BALE BARRIER
- (ECB) EROSION CONTROL BLANKET

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION OF COLORADO
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS	3/15/17
2	EPC COMMENTS	4/19/17
3	REVISED GRADING	8/4/17

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC

Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO LICENSE #29794
DATE: 9/21/17

CLASSIC
CONSULTING
ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200 (719) 785-0790
Colorado Springs, Colorado 80903 (719) 785-0799 (fax)

ACADEMY GATEWAY SUBDIVISION FILING NO. 1 OVERLOT GRADING PLAN INCLUDING EROSION CONTROL			
DESIGNED BY	KRC	SCALE	DATE 10/17/16
DRAWN BY	KC	(H) 1" = 60'	SHEET 6 OF 13
CHECKED BY	KRC	(V) 1" = N/A	JOB NO. 2507.00

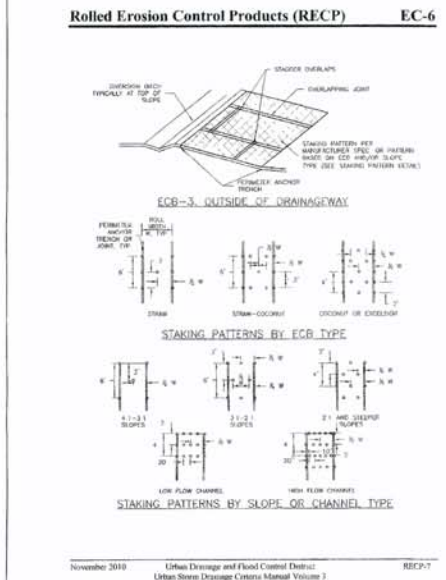
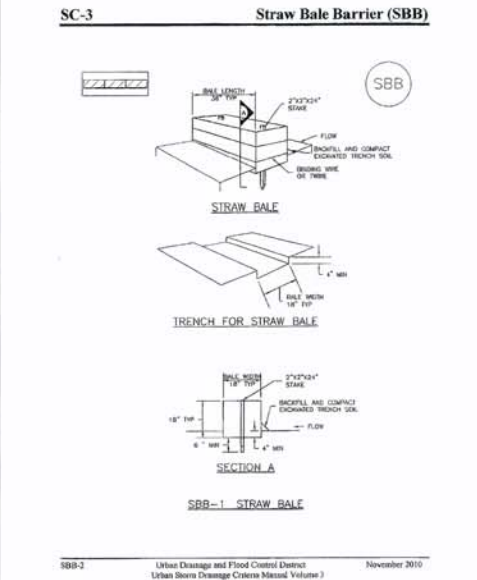
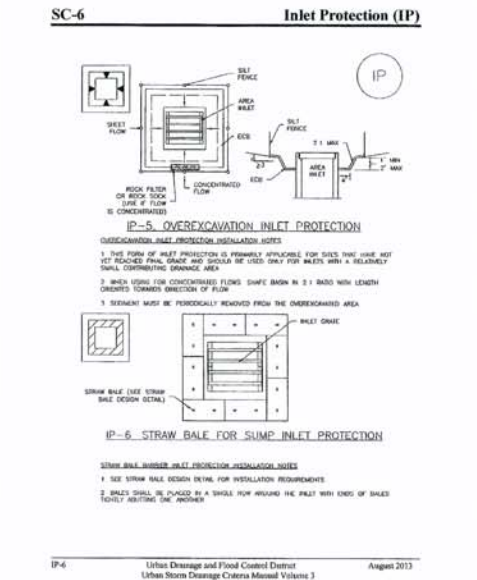
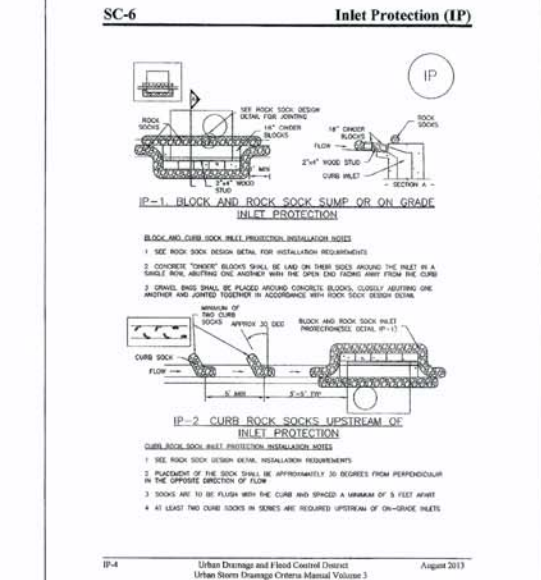
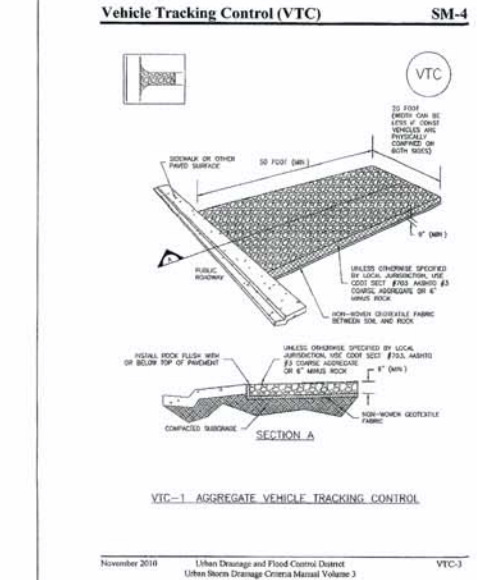
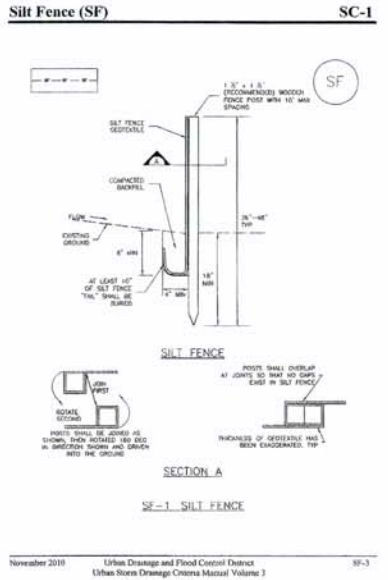
NO OFF-SITE GRADING PROPOSED OTHER THAN REQUIRED TO ACCOMMODATE ADJACENT STREET IMPROVEMENTS.

NOTE:
ALL 3:1 SLOPE AREAS TO BE STABILIZED WITH MATTING ONCE GRADING IS COMPLETE

UNITED STATES
AIR FORCE
ACADEMY
PLAT BOOK O-2,
PAGE 84

* LOT 1, BLOCK 1 *
MINING MUSEUM
SUBDIVISION NO. 1
PLAT BOOK F-3, PAGE 73





Temporary and Permanent Seeding (TS/PS) or (SM) **EC-2**

Description
Temporary seeding can be used to stabilize disturbed areas that will be reseeded in an extended period. Permanent seeding should be used to stabilize areas at final grade that will not be otherwise stabilized. Effective seeding requires proper preparation of the seedbed, selection of an appropriate seed mixture, proper planting techniques, and protection of the seeded area with mulch, geotextiles, or other appropriate measures.

Appropriate Uses
When the soil surface is disturbed and will remain exposed for an extended period (typically 90 days or longer), protective stabilization measures should be implemented. If the protective period is short-lived (up to the order of two weeks), techniques such as surface mulching may be appropriate. For longer periods of inactivity, temporary seeding and mulching can provide effective erosion control. Permanent seeding should be used on finished areas that have not been otherwise stabilized.

Design and Installation
Effective seeding requires proper seedbed preparation, selection of an appropriate seed mixture, use of appropriate seeding equipment to ensure proper coverage and density, and protection with mulch or fabric (see plans as established).

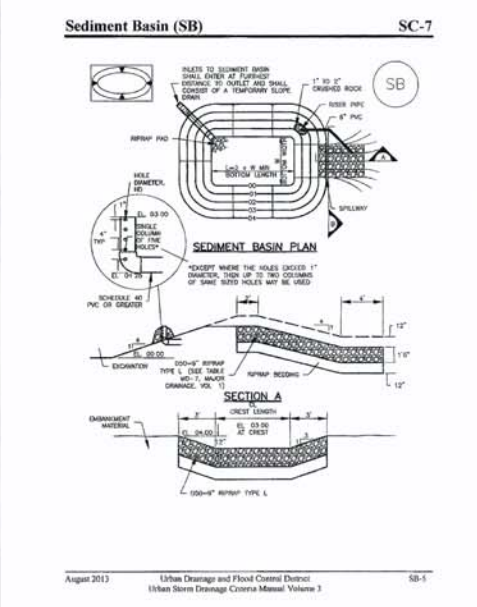
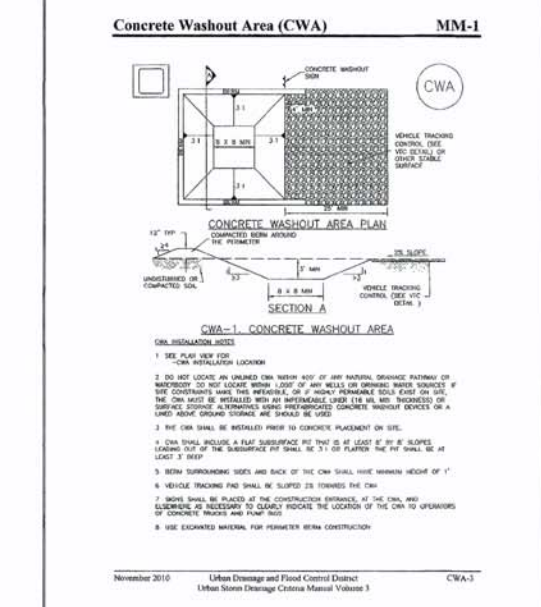
Seedbed Preparation

Seeding Date	Winter	Coast	Winter	Coast
January 1-March 31	4	1.2,3	✓	✓
March 16-April 30	4		✓	
May 1-May 31	4,5,6,7		✓	
July 1-July 31	3,4,7		✓	
August 1-September 30		8,9,10,11	✓	✓
October 1-December 31			✓	✓

Concrete Washout Area (CWA) **MM-1**

ON-ROADWAY NOTES

1. THE CWA SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE ROADWAY.
2. THE CWA SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE ROADWAY.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE ROADWAY.
4. THE CWA SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE ROADWAY.
5. THE CWA SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE ROADWAY.
6. THE CWA SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE ROADWAY.
7. THE CWA SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE ROADWAY.
8. THE CWA SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE ROADWAY.



Sediment Basin (SB) **SC-7**

TABLE SB-1: SEEDING INFORMATION FOR STABILIZED SEEDING BASIN

Seeding Date	Winter	Coast	Winter	Coast
January 1-March 31	4	1.2,3	✓	✓
March 16-April 30	4		✓	
May 1-May 31	4,5,6,7		✓	
July 1-July 31	3,4,7		✓	
August 1-September 30		8,9,10,11	✓	✓
October 1-December 31			✓	✓

SEEDING GUIDELINES

1. SEEDBED PREPARATION
THE SEEDBED SHOULD BE WELL-SETTLED AND FIRM, BUT FRAGILE ENOUGH THAT THE SEED CAN BE PLACED AT THE SPECIFIED DEPTHS. COMPETITIVE STANDS OF WEEDS THAT ARE PRESENT BEFORE SEEDING MUST BE CONTROLLED BY SHALLOW TILLAGE OR BY APPLICATION OF HERBICIDES. SOILS THAT HAVE BEEN OVER-COMPACTED BY TRAFFIC OR EQUIPMENT, ESPECIALLY WHEN WET, SHOULD BE TILLED TO BREAK UP ROOTING-RESTRICTIVE LAYERS, THEN HARROWED, ROLLED, OR PACKED TO PREPARE THE REQUIRED FIRM SEEDBED.

2. FERTILIZER
FERTILIZER SHOULD BE APPLIED AT A RATE OF 50 POUNDS OF AVAILABLE NITROGEN PER ACRE AND 40 POUNDS OF AVAILABLE PHOSPHATE PER ACRE. THE TIME OF APPLICATION SHOULD BE IMMEDIATELY PRIOR TO SEEDING, AT THE TIME OF SEEDING, OR IMMEDIATELY FOLLOWING SEEDING, DEPENDING ON THE KIND OF FERTILIZER AND TYPE OF EQUIPMENT USED.

3. SEEDING
SEED SHOULD BE PLANTED WITH A GRASS DRILL ON ALL SLOPES OF 3:1 OR FLATTER. SEED MAY BE BROADCAST BY HAND, BY MECHANICAL SPREADER, OR BY HYDRAULIC EQUIPMENT ON AREAS THAT ARE SMALL, TOO STEEP, OR NOT ACCESSIBLE FOR SEED DRILL OPERATIONS. SEED PLANTED WITH A DRILL SHOULD BE COVERED WITH SOIL TO A DEPTH OF 1/4 TO 3/4 INCH. SEED PLANTED BY THE BROADCAST METHOD SHALL BE INCORPORATED INTO THE SOIL SURFACE, NOT TO EXCEED A DEPTH OF 3/4 INCH, BY RAKING, HARROWING, OR OTHER PROVEN METHOD.

4. MULCHING
SEEDING AREAS SHOULD BE MULCHED TO CONSERVE MOISTURE, PREVENT SURFACE COMPACTION OR CRUSTING, REDUCE RUNOFF AND EROSION, CONTROL INSECTS, AND HELP ESTABLISH PLANT COVER. NATIVE HAY OR STRAW SHOULD BE APPLIED AT A RATE OF 4,000 POUNDS PER ACRE AND CRIMPED INTO THE GROUND ON SLOPES GREATER THAN 3:1. AN AGRONOMY BLANKET SHOULD BE USED.

5. SUPPLEMENTAL WATER
IN LOW RAINFALL AREAS, WHERE WATER IS AVAILABLE AND WHERE RAPID ESTABLISHMENT IS NEEDED, IRRIGATION OF NEW SEEDING SHOULD BE PERFORMED DURING THE FIRST GROWING SEASON. WATER SHOULD BE APPLIED AT APPROXIMATELY ONE WEEK INTERVALS, AT A RATE OF 3/4 TO 1 INCH PER APPLICATION, WHEN RAINFALL IS DEFICIENT FOR PLANT DEVELOPMENT.

EROSION CONTROL CRITERIA:
EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES WITHIN THE PROJECT SITE.

1. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
2. DURING GRADING OPERATIONS, LOCATE AND SET THE STRAW BALE CHECK DAMS AND SILT FENCES AS SHOWN ON THE EROSION CONTROL PLAN. AT THIS TIME, RESEED ALL DISTURBED AREAS WITH AN E.P. PASO COUNTY APPROVED SEED MIX.
3. SEEDING OPERATION: DRILLED TO A DEPTH OF 25" TO 50" INTO SOIL, WHERE POSSIBLE. BROADCAST AND RAKED TO COVER ON STEEPER THAN 3:1 SLOPES WHERE ACCESS IS LIMITED OR UNSAFE FOR EQUIPMENT.
4. MULCHING REQUIREMENT AND APPLICATION: 1.5 TONS PER ACRE NATIVE HAY MECHANICALLY CRIMPED INTO SOIL.
5. THE STRAW BALE CHECK DAMS AND SILT FENCES SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL EROSION AND SEDIMENTATION POTENTIAL IS MITIGATED. REMOVAL OF SILT AND SEDIMENT COLLECTED BY THE STRAW BALES IS REQUIRED ONCE IT REACHES HALF THE HEIGHT OF THE STRAW BALES OR SILT FENCE.
6. DISTURBED SOIL SHALL BE VEGETATED WITHIN 60 DAYS AFTER SUBSTANTIAL FINAL GRADING IS COMPLETE. PROVIDE TEMPORARY VEGETATION TO DISTURBED AREAS THAT WILL HAVE A PERIOD OF EXPOSURE OF 6 MONTHS OR LONGER PRIOR TO FINAL STABILIZATION.
7. ALL FACILITIES, VEGETATION AND OTHER ITEMS REQUIRED BY THE APPROVED FINAL GRADING, EROSION CONTROL AND RECLAMATION PLAN SHALL BE PROPERLY MAINTAINED BY THE OWNERS OF THE PROPERTY. SUCH MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, KEEPING ALL EROSION CONTROL FACILITIES IN GOOD ORDER AND FUNCTION, REPAIRING ANY EROSION DAMAGE THAT OCCURS, KEEPING ALL VEGETATION HEALTHY AND IN GROWING CONDITION AND REPLACING ANY DEAD VEGETATION AS SOON AS PRACTICABLE.
8. ALL SILT FENCES ARE TO BE REGULARLY INSPECTED AND REPAIRED AS NEEDED.
9. THE CONTRACTOR SHALL PROVIDE VEHICLE TRACKING CONTROL FACILITIES FOR EACH ENTRANCE/EXIT TO THE SITE. THE CONTRACTOR SHALL SUBMIT A PLAN WHICH WILL ASSURE USAGE OF THIS FACILITY BY ALL VEHICLES LEAVING THE SITE.
10. EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH STORM EVENT AND REPAIRED WHEN NECESSARY.
11. CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL FACILITIES IN GOOD WORKING ORDER UNTIL SUCH TIME AS PERMANENT FACILITIES ARE IN PLACE AND THE CONSTRUCTION MANAGER HAS APPROVED THEIR REMOVAL.
12. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
13. THE EROSION CONTROL MEASURES OUTLINED ON THE PLAN ARE THE RESPONSIBILITY OF THE DEVELOPER TO MONITOR AND REPLACE, REGRADE AND REBUILD AS NECESSARY UNTIL VEGETATION IS ESTABLISHED.
14. MAXIMUM ACREAGE OPEN AT ANY GIVEN TIME IS TO BE 30 ACRES.

SCHEDULE OF ANTICIPATED CONSTRUCTION ACTIVITY:

ACTIVITY	COMPLETION	EROSION CONTROL
INSTALL INITIAL BMP'S	6 MONTHS	ALL SHOWN ON GRADING PLAN
INSPECTION OF INITIAL BMP'S BY COUNTY STAFF		
PRECONSTRUCTION MEETING WITH COUNTY STAFF		

NOTES:

AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF THE 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
WOOD - PERMITS
4300 CHEERY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

NO PORTION OF THIS SITE IS LOCATED WITHIN A FLOODPLAIN AS DETERMINED BY THE FLOOD INSURANCE RATE MAPS (F.I.R.M.) MAP NUMBER 080400050P AND EFFECTIVE DATE, MARCH 17, 1987.

THE AVERAGE SOIL CONDITION REFLECTS HYDROLOGICAL GROUP "B" (FINE COARSE SANDY LOAM) AS DETERMINED BY THE "SOIL SURVEY OF EL PASO COUNTY AREA" PREPARED BY THE U.S. SOIL CONSERVATION SERVICE.

EXISTING VEGETATION CONSISTS OF TALL NATIVE GRASSES AND WEEDS WITH SPORADIC CACTI AND YUCCAS THROUGH-OUT THE SITE.

EMERGENCY OVERFLOW SWALES FOR INLETS IN THE INTERIM UNTIL CURB AND ASPHALT IS INSTALLED WILL BE THE LOTS, FINAL WILL BE TO OVERTOP THE HIGH POINT IN ROADWAY TO THE NEXT AVAILABLE INLET OR TO PROPOSED POND.

STOCKPILE LOCATIONS FOR HOMEBUILDING TO BE ON EACH INDIVIDUAL LOT THAT IS BEING BUILT UPON.

LIMITS OF DISTURBANCE FOR THIS PLAN INCLUDE UTILITY INSTALLATION AND ROADWAY CONSTRUCTION WITHIN THE R.O.W., AND OVERLOT GRADING FOR DEVELOPMENT THEN INDIVIDUAL LOTS FOR HOMEBUILDING ONCE CONSTRUCTION OF THE HOME BEGINS.

GRADING WITHIN THIS PHASE WILL BE FULLY DEVELOPED WITH HOME BUILDING OPERATIONS.

LOCATION OF STORAGE FOR MAINTENANCE EQUIPMENT AND TEMPORARY DISPOSAL AREAS WILL BE ADDED TO THIS PLAN BY SWMP ADMINISTRATOR UPON COORDINATION WITH SELECTED CONTRACTOR.

ALL AREAS ARE TO BE RESEEDED OUTSIDE OF THE FILING NO. 2A AREA. RESEED ALL AREAS AS NEEDED TO PREVENT EROSION AND SEDIMENT RUNOFF ONTO CONSTRUCTION ACTIVITIES.

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION OF COLORADO
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS	3/15/17
2	EPC COMMENTS	4/19/17

PREPARED UNDER SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC

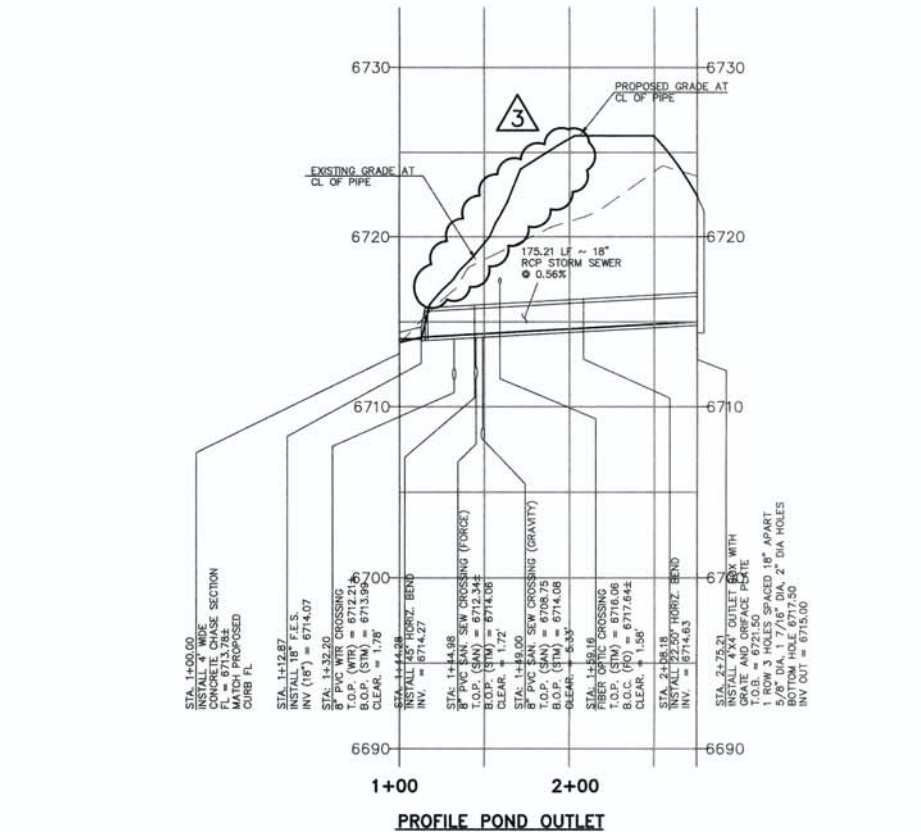
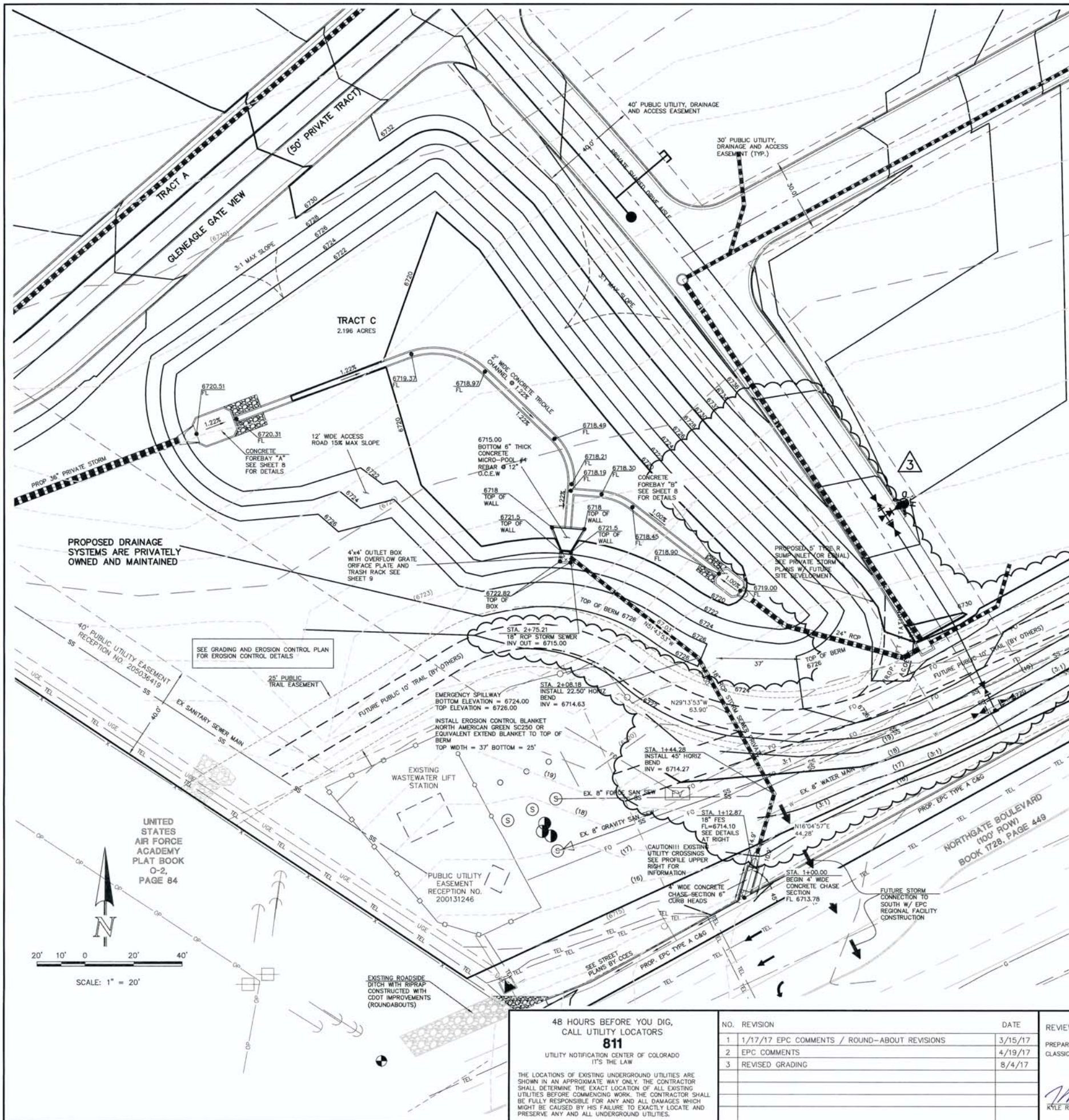
KYLE R. CAMPBELL
DATE: 4/20/17

ACADEMY GATEWAY SUBDIVISION
FILING NO. 1-OVERLOT GRADING PLAN
INCLUDING EROSION CONTROL
DETAIL SHEET

DESIGNED BY	KRC	SCALE	DATE	10/17/16
DRAWN BY	KC	(H) 1" = NA	SHEET	7 OF 13
CHECKED BY	KRC	(V) 1" = NA	JOB NO.	2507.00

CLASSIC
CONSULTING ENGINEERS & SURVEYORS

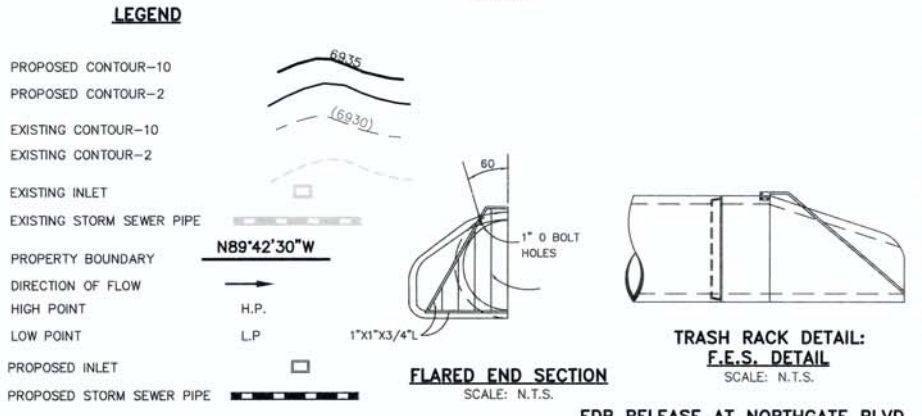
619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719) 785-0790
(719) 785-0799 (fax)



NOTE:
EXISTING UTILITIES AND STORM SEWER SHOWN IN AN APPROXIMATE WAY ONLY. ALL EXISTING UTILITIES AND STORM SEWER TO BE POHOLED AND VERIFIED BOTH HORIZONTALLY & VERTICALLY PRIOR TO CONSTRUCTION & CONFLICTS REPORTED TO ENGINEER.

NOTE:
THE PROPOSED EXTENDED DETENTION BASIN (EDB) IS TO BE PRIVATELY OWNED AND MAINTAINED

ENGINEERING DIVISION
PCD ENGINEERING REVIEWS PLANS AND REPORTS TO ENSURE GENERAL CONFORMANCE WITH EL PASO COUNTY STANDARDS AND CRITERIA. THE PROJECT ENGINEER IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CRITERIA, INCLUDING OTHER GOVERNMENTAL REGULATIONS. NOTWITHSTANDING ANYTHING DEPICTED IN THE PLAN 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 ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED IN WRITING AND APPROVED BY THE EGM ADMINISTRATOR. ANY MODIFICATIONS NECESSARY TO MEET OVERLOOKED CRITERIA AFTER-THE-FACT WILL BE THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.



48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION	DATE	REVIEW:
1	1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS	3/15/17
2	EPC COMMENTS	4/19/17
3	REVISED GRADING	8/4/17

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

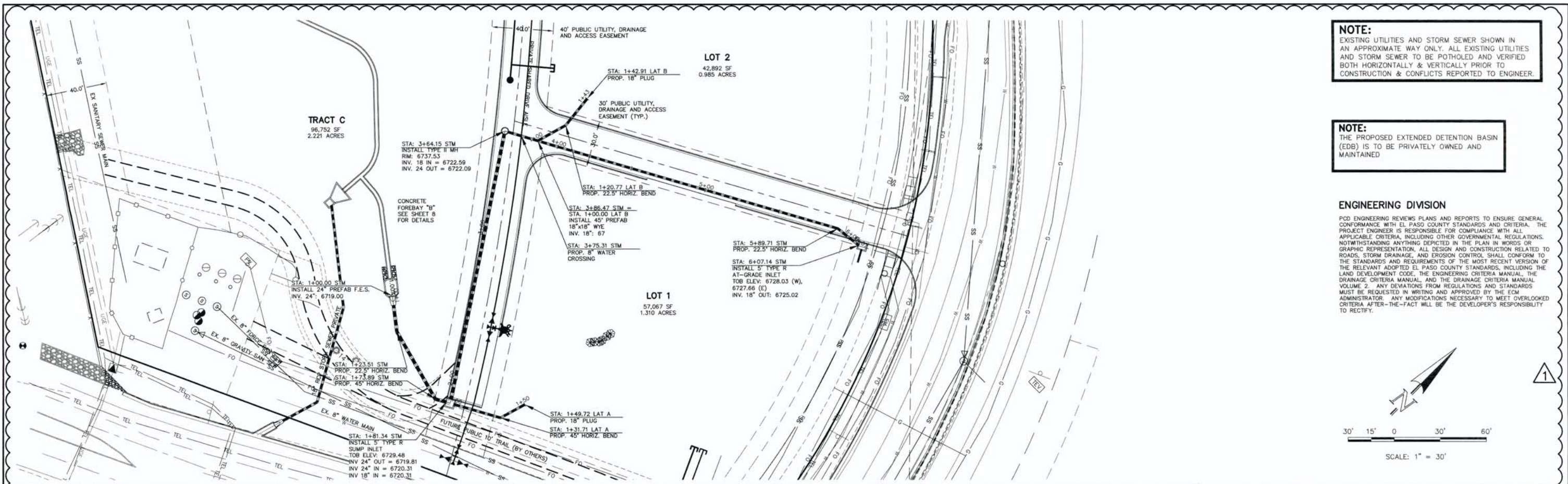
Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO, P.E. 2929794
DATE: 9/2/17

CLASSIC
CONSULTING ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799(fax)

ACADEMY GATEWAY SUBDIVISION
FILING NO. 1- CONSTRUCTION PLANS
EXTENDED DETENTION BASIN
GRADING PLAN

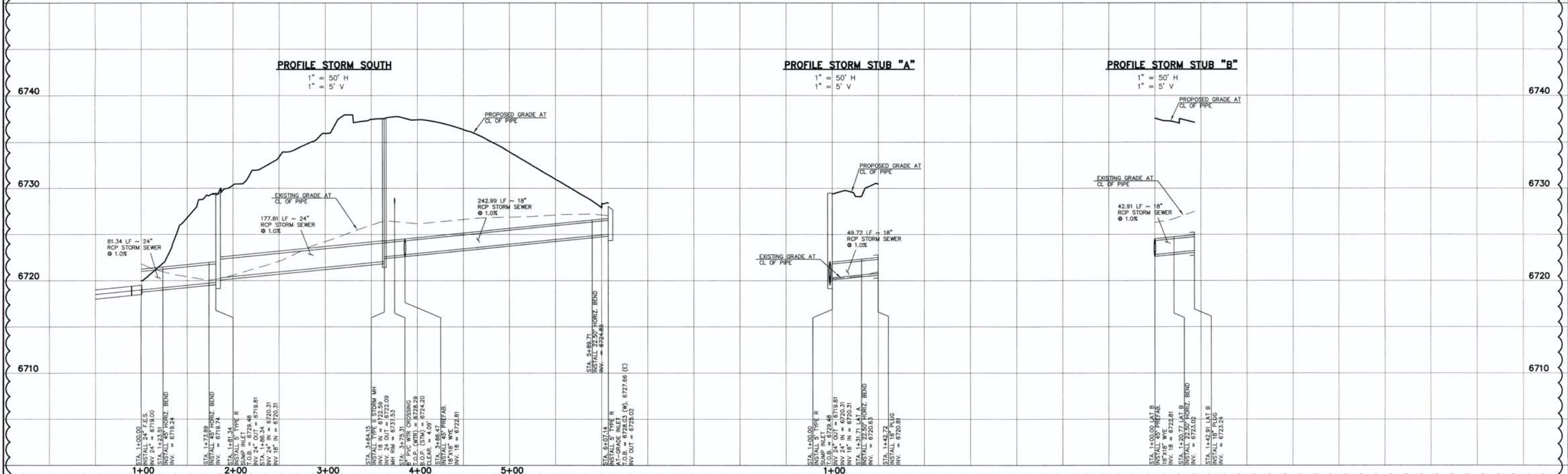
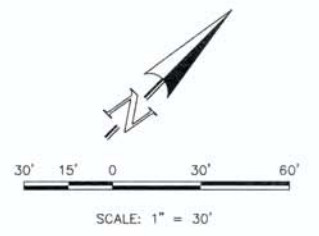
DESIGNED BY	DLG	SCALE	DATE	02-24-17
DRAWN BY	DLG	(H) 1" = 20'	SHEET	8 OF 13
CHECKED BY	(V) 1" =		JOB NO.	2507.00



NOTE:
EXISTING UTILITIES AND STORM SEWER SHOWN IN AN APPROXIMATE WAY ONLY. ALL EXISTING UTILITIES AND STORM SEWER TO BE POTHOLED AND VERIFIED BOTH HORIZONTALLY & VERTICALLY PRIOR TO CONSTRUCTION & CONFLICTS REPORTED TO ENGINEER.

NOTE:
THE PROPOSED EXTENDED DETENTION BASIN (EDB) IS TO BE PRIVATELY OWNED AND MAINTAINED

ENGINEERING DIVISION
PCD ENGINEERING REVIEWS PLANS AND REPORTS TO ENSURE GENERAL CONFORMANCE WITH EL PASO COUNTY STANDARDS AND CRITERIA. THE PROJECT ENGINEER IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CRITERIA, INCLUDING OTHER GOVERNMENTAL REGULATIONS. NOTWITHSTANDING ANYTHING DEPICTED IN THE PLAN 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 IN WRITING AND APPROVED BY THE ECD ADMINISTRATOR. ANY MODIFICATIONS NECESSARY TO MEET OVERLOOKED CRITERIA AFTER-THE-FACT WILL BE THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.



DESIGN DATA:

SIDWALKS: WIDTH: _____ LOCATION: Attached Detached

CURB TYPE: A B C

R/W WIDTH: _____ MAT WIDTH: _____ STREET TYPE: _____ HVEEM: _____

PAVEMENT: TYPE: HMA PCC THICKNESS: _____ COMPOSITE SECTION: _____ HMA: _____ BASE: _____ SUBGRADE STABILIZATION: CHEMICAL: MECH: TYPE: _____ THICKNESS: _____

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS **811** UTILITY NOTIFICATION OF COLORADO IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	NEW SHEET	08/22/17
		4/19/17

REVIEW: PREPARED UNDER MY SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC.

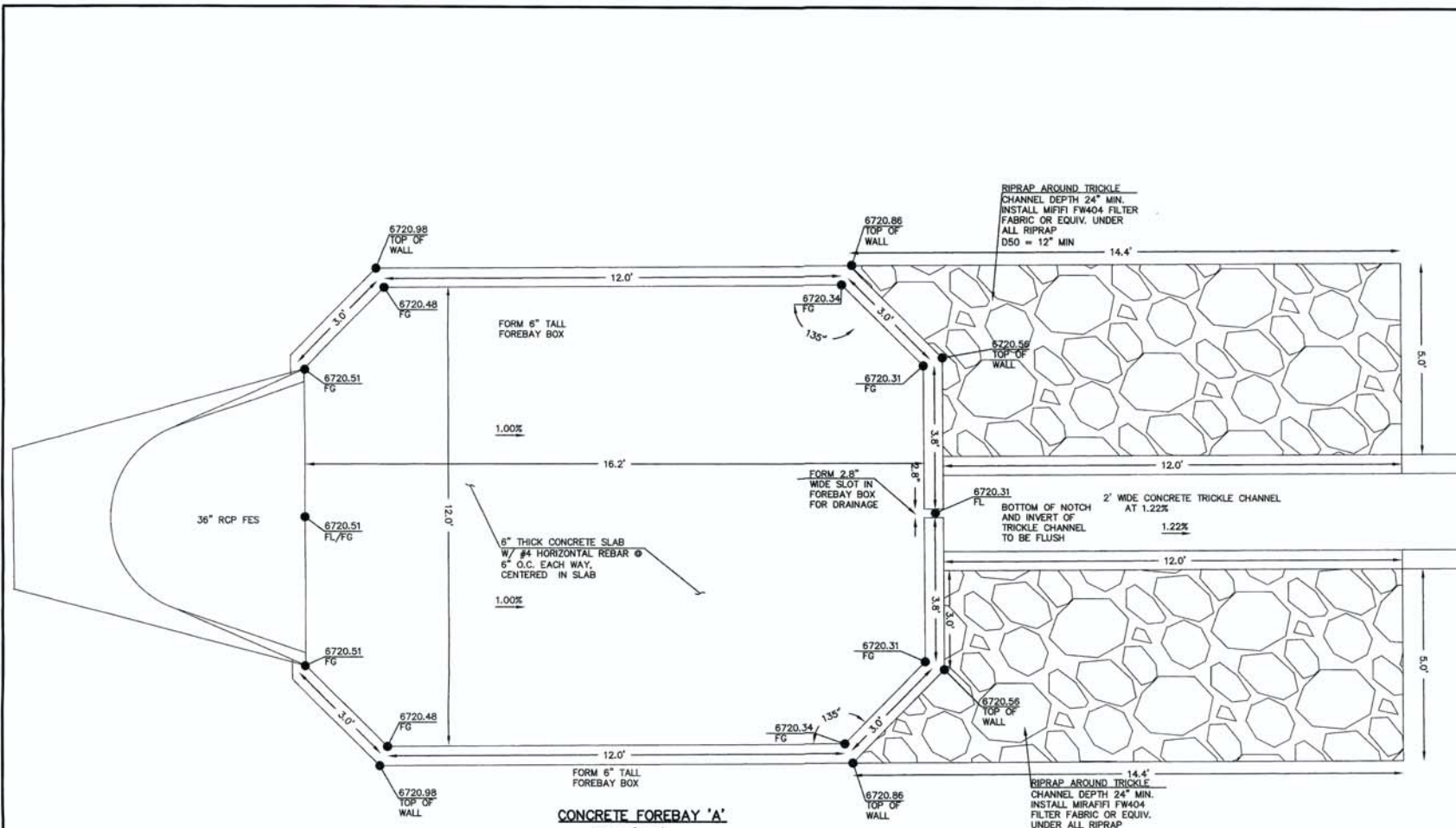
Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO P.E. #29794

CLASSIC
CONSULTING ENGINEERS & SURVEYORS

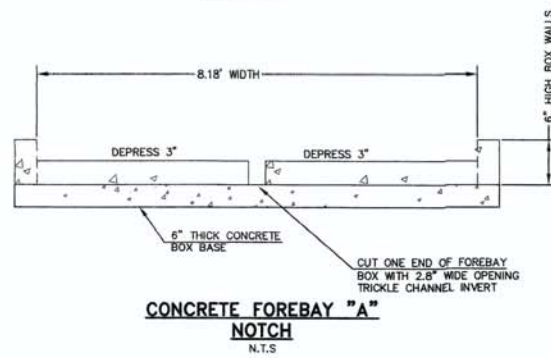
619 N. Cascade Avenue, Suite 200 (719) 785-0790
Colorado Springs, Colorado 80903 (719) 785-0799(Fax)

ACADEMY GATEWAY SUBDIVISION
FILING NO. 1-STREET IMPROVEMENT PLAN
EXTENDED DETENTION BASIN
STORM OUTFALL

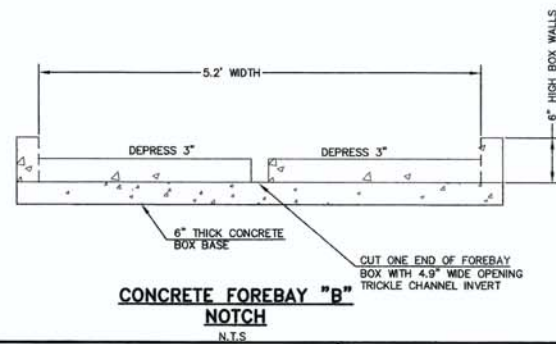
DESIGNED BY	KRC	SCALE	DATE	08-22-17
DRAWN BY	JRH	(H) 1" = 30'	SHEET	8A OF 13
CHECKED BY		(V) 1" = 30'	JOB NO.	2507.00



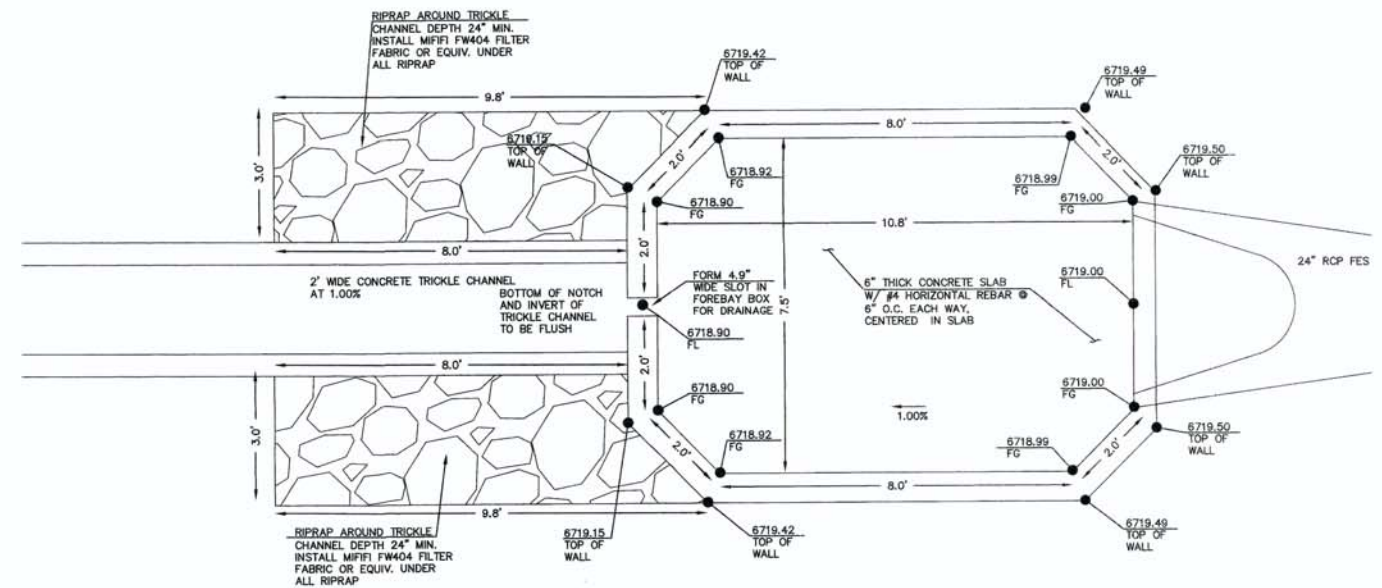
CONCRETE FOREBAY 'A'
SCALE 1" = 2'



CONCRETE FOREBAY "A" NOTCH
N.T.S.



CONCRETE FOREBAY "B" NOTCH
N.T.S.



CONCRETE FOREBAY 'B'
SCALE 1" = 2'

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS	3/15/17
2	EPC COMMENTS	4/19/17

REVIEW:
PREPARED UNDER DIRECT SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC.

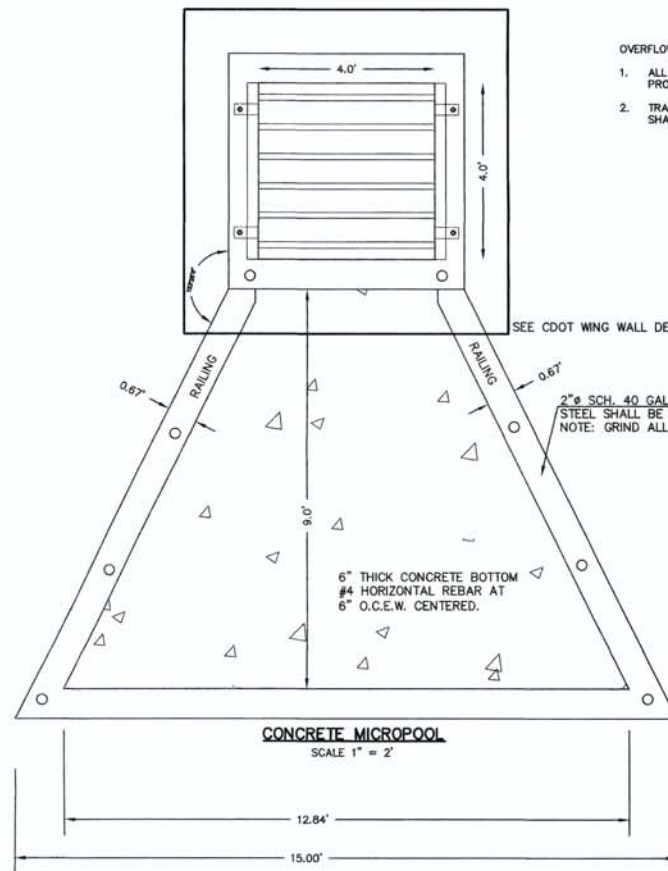
Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO P.E. #29794
DATE: 4/21/17

CLASSIC
CONSULTING
ENGINEERS & SURVEYORS

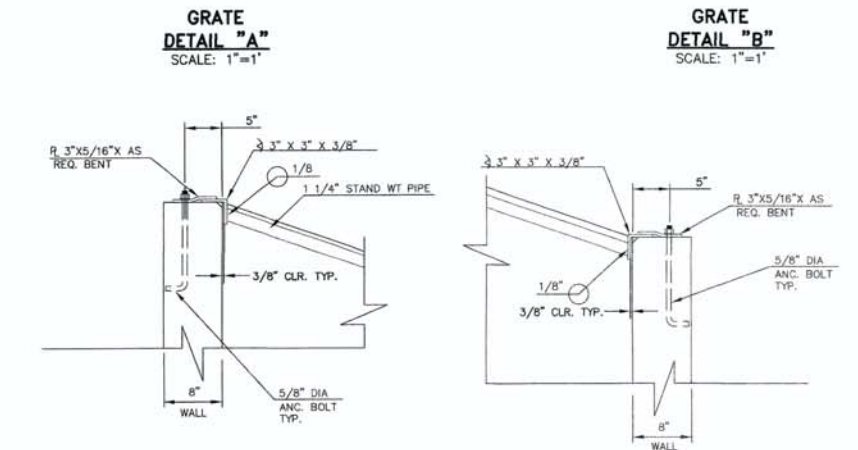
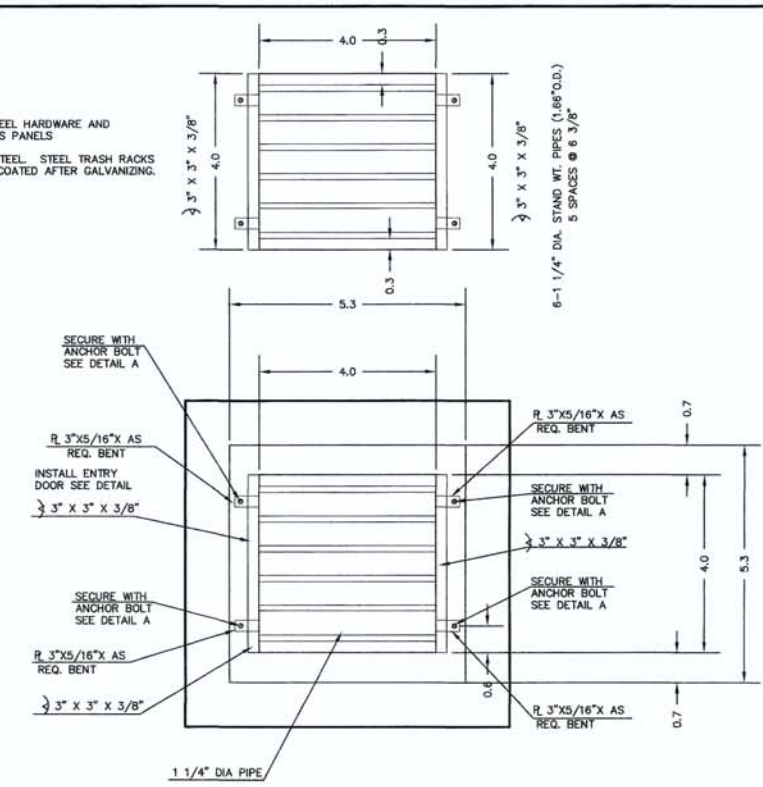
619 N. Cascade Avenue, Suite 200 (719)785-0790
Colorado Springs, Colorado 80903 (719)785-0799(Fax)

ACADEMY GATEWAY SUBDIVISION FILING NO. 1 - CONSTRUCTION PLANS EXTENDED DETENTION BASIN FOREBAY DETAILS			
DESIGNED BY	DLG	SCALE	DATE 02-24-16
DRAWN BY	DLG	(H) 1" = 5'	SHEET 9 OF 13
CHECKED BY	(V) 1" = N/A	JOB NO.	2507.00

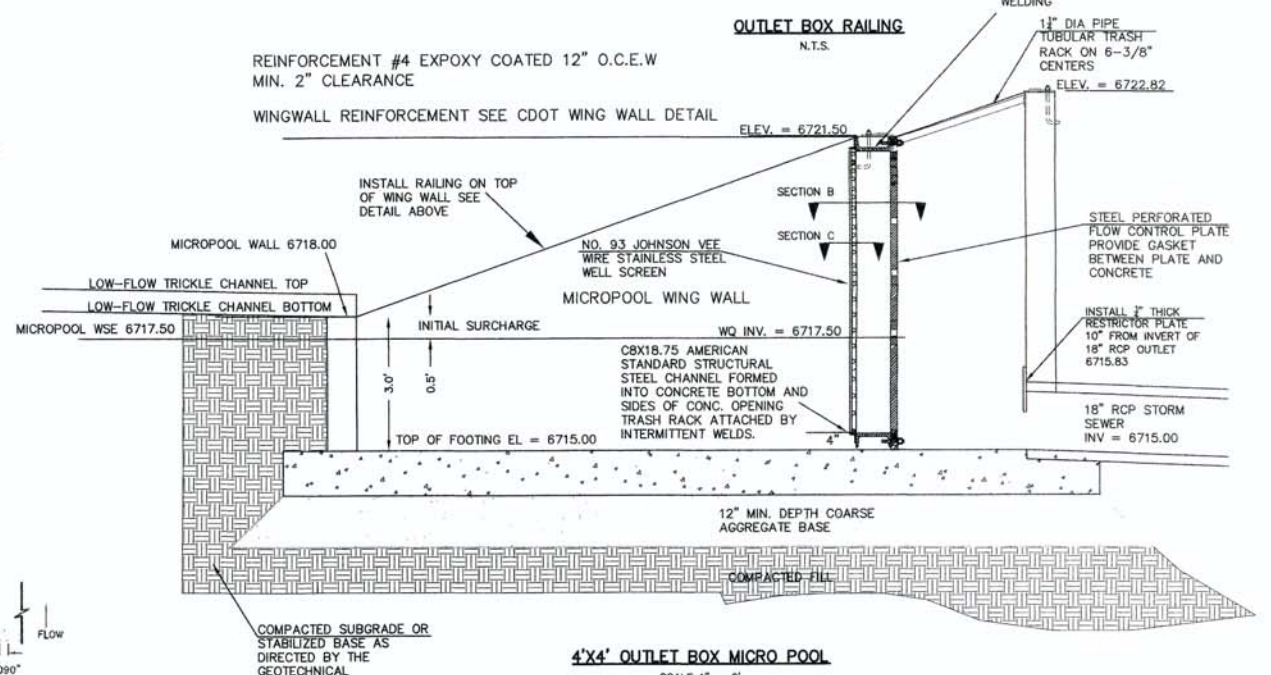
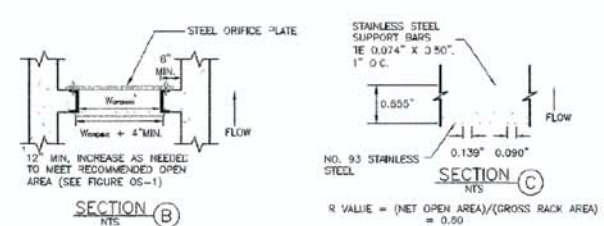
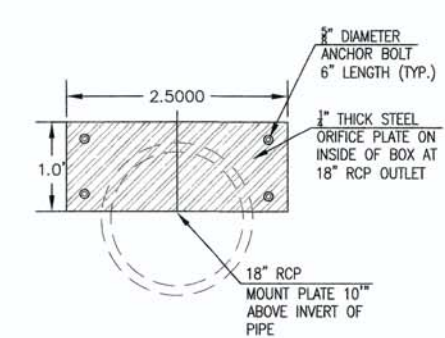
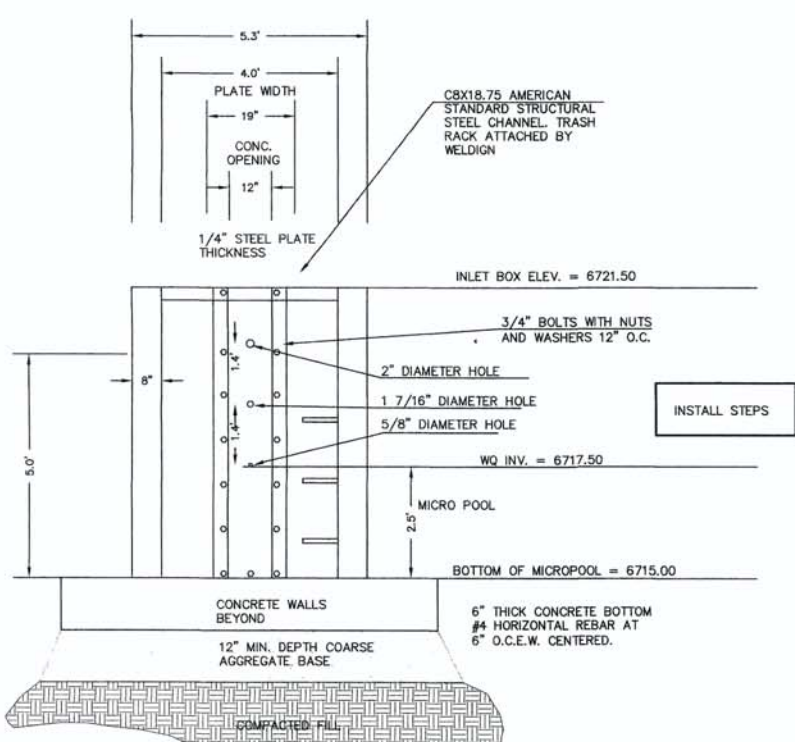
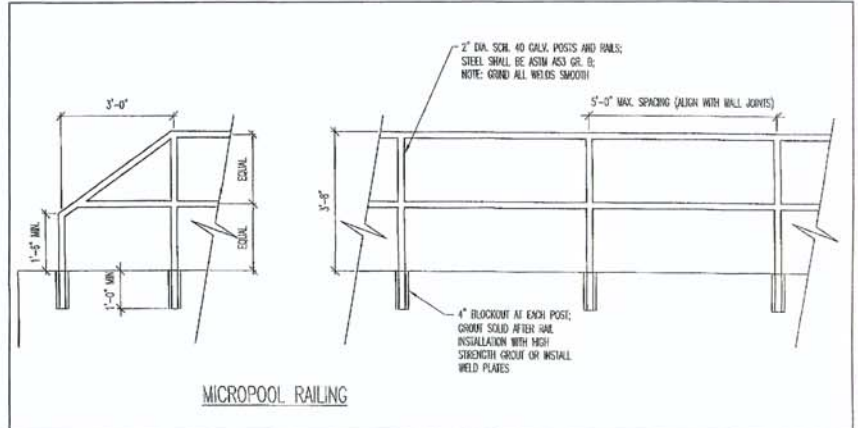




- OVERFLOW TRASH RACKS:**
- ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
 - TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.



FABRICATED STEEL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AISC AND AWS SPECIFICATIONS.
 THE OUTLET STRUCTURE BARGRADE IS DESIGNED FOR A VERTICAL LOAD OF 300 LBS./SQ. FT.
 ALL STRUCTURAL STEEL SHAPES TO INCLUDE: ANGLE, PLATE, AND BAR SHALL MEET ASTM A36 SPECIFICATIONS, FY = 36 KSI MINIMUM. STRUCTURAL TUBING SHALL MEET ASTM A500 GRADE B SPECIFICATIONS, FY = 46 KSI MINIMUM. STEEL PIPE SHALL BE STANDARD WEIGHT PIPE ASTM A53 GRADE B, FY = 35 KSI MINIMUM.
 WELDS NOT INDICATED SHALL BE 1/8" MINIMUM FILLET OR GROOVE, CONTINUOUS SO FAR AS POSSIBLE, CONSIDER VANDALISM LOADS, WELD ACCORDINGLY AT CRITICAL LOCATIONS.
 PRIOR TO PAINTING REMOVE ALL OIL, SCALE, AND SLAG, GRIND OFF BURRS AND SHARP EDGES.
 PAINT WITH ONE SHOP COAT OF ZINC RICH PRIMER AND TWO COATS OF ALUMINUM PAINT, AASHTO M-69



4'X4' OUTLET BOX ORIFICE PLATE
SCALE 1" = 2"

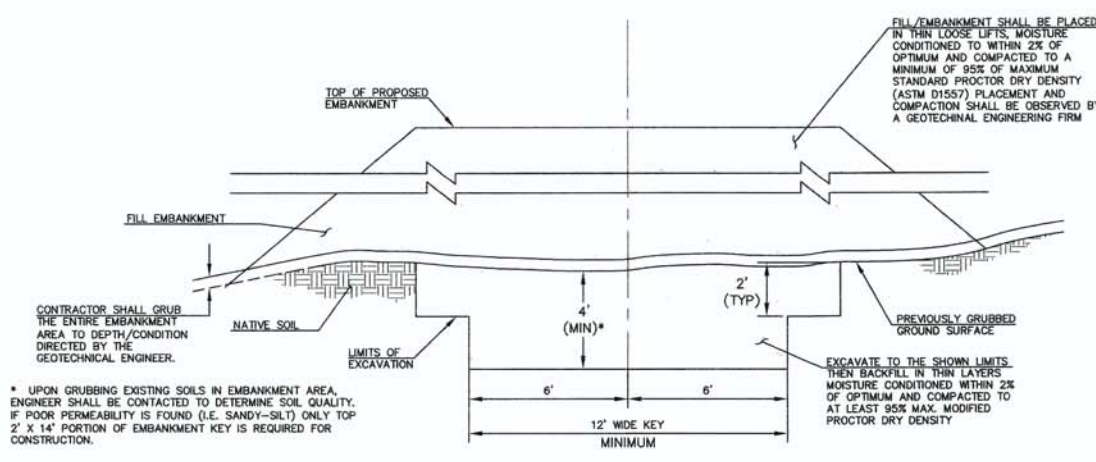
48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS		NO. REVISION		DATE	
811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW		1	1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS	3/15/17	
		2	EPC COMMENTS	4/19/17	
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.					

REVIEW:
 PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
 KYLE R. DAMPHER, COLORADO P.E. #29794
 DATE: 4/30/17

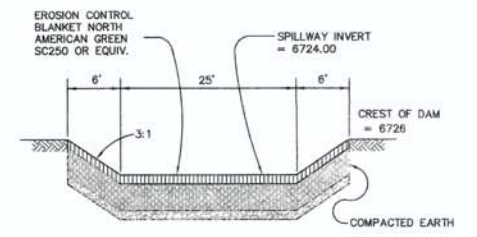
CLASSIC
 CONSULTING ENGINEERS & SURVEYORS
 619 N. Cascade Avenue, Suite 200
 Colorado Springs, Colorado 80903
 (719) 785-0790
 (719) 785-0799 (fax)

ACADEMY GATEWAY SUBDIVISION FILING NO. 1 - CONSTRUCTION PLANS			
EXTENDED DETENTION BASIN OUTLET DETAILS			
DESIGNED BY	DLG	SCALE	DATE 02-24-17
DRAWN BY	DLG	(H) 1" = 2"	SHEET 10 OF 13
CHECKED BY	(V) 1" = 1/4"	DATE	JOB NO. 2507.00





**SECTION A
TYPICAL EMBANKMENT
WITH SOIL KEYWAY**
SCALE: N.T.S.



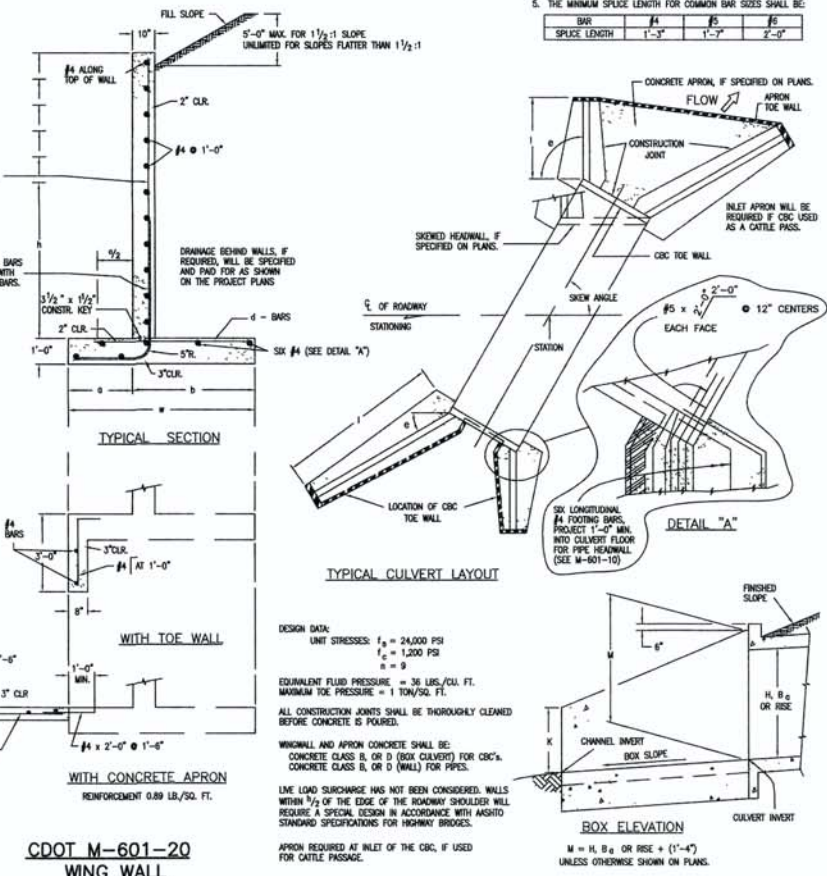
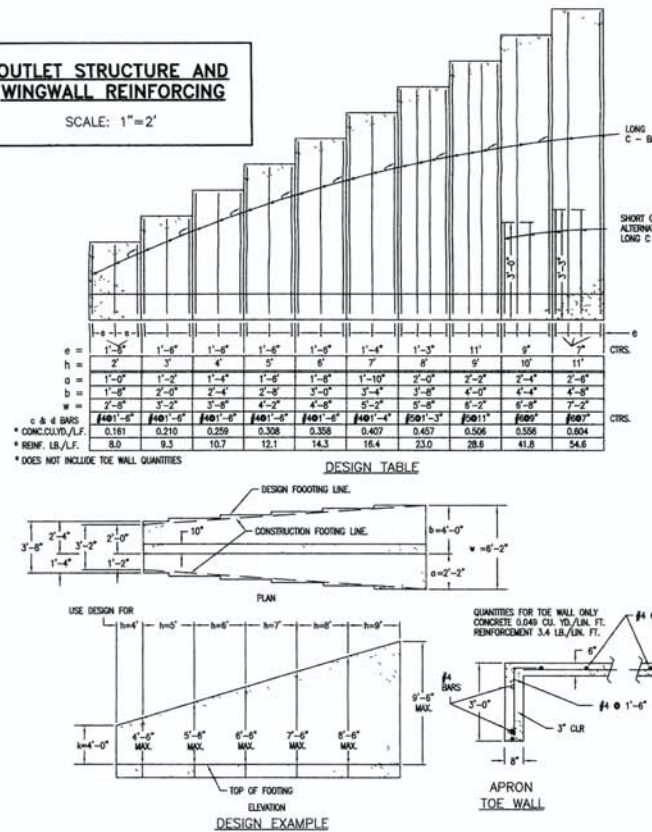
**EMERGENCY SPILLWAY
CROSS SECTION**
SCALE: N.T.S.

GENERAL NOTES

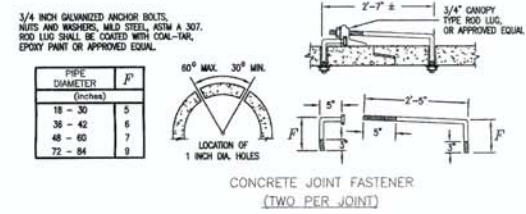
- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
- WINGWALL FOOTINGS AND FLOOR OF BOX CULVERT SHALL BE PLACED MONOLITHICALLY.
- DIMENSIONS "h", "b", "rise", "y", "x", "m" AND ANGLES FOR WINGWALLS SHALL BE AS SHOWN ON THE PLANS.
- REINFORCING STEEL SHALL BE GRADE 60.
- THE MINIMUM SPLICE LENGTH FOR COMMON BAR SIZES SHALL BE:

BAR	#4	#5	#6
SPLICE LENGTH	1'-3"	1'-7"	2'-0"

**OUTLET STRUCTURE AND
WINGWALL REINFORCING**
SCALE: 1"=2'



**CDOT M-601-20
WING WALL**



**CONCRETE JOINT
FASTENER**

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION	DATE
1 1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS	3/15/17
2 EPC COMMENTS	4/19/17

REVIEW:
PREPARED UNDER THE SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
KYLE R. CAMPBELL, COLORADO P.E. #29794
DATE 4/21/17

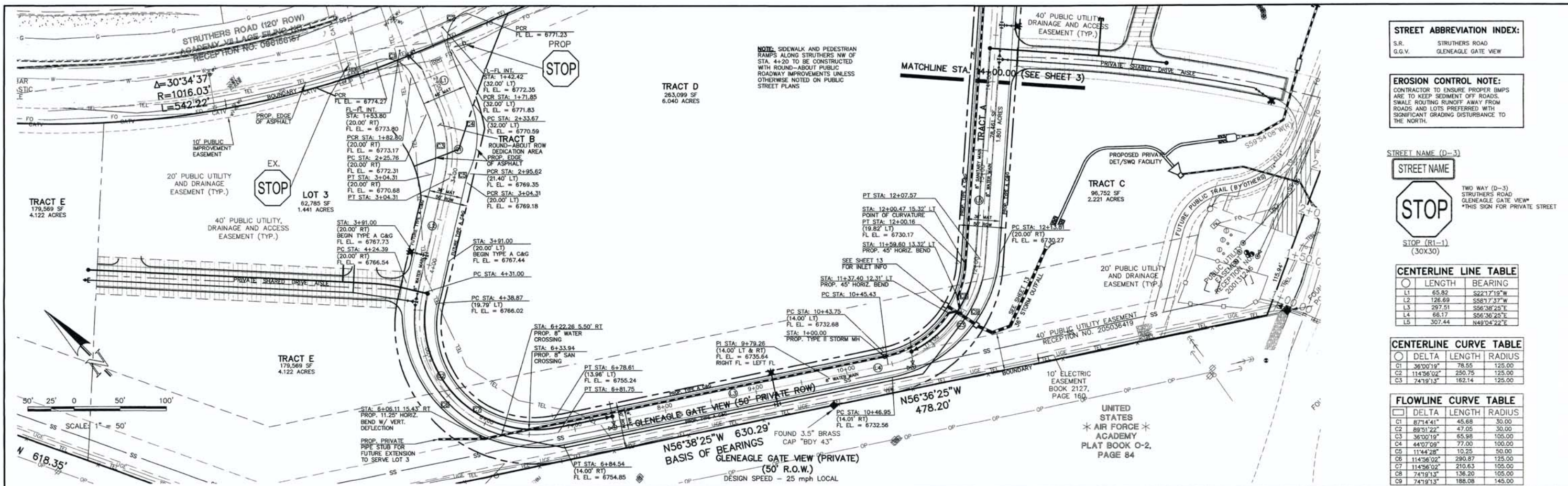
CLASSIC
CONSULTING
ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799 (fax)

ACADEMY GATEWAY SUBDIVISION
FILING NO. 1 - CONSTRUCTION PLANS
EXTENDED DETENTION BASIN
DETAILS

DESIGNED BY	DLG	SCALE	DATE	02-24-17
DRAWN BY	DLG	(H) 1"= N/A	SHEET 11	OF 13
CHECKED BY	(V) 1"= N/A	JOB NO.	2507.00	

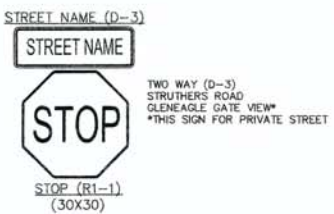




STREET ABBREVIATION INDEX:

S.R.	STRUTHERS ROAD
G.G.V.	GLENEAGLE GATE VIEW

EROSION CONTROL NOTE:
 CONTRACTOR TO ENSURE PROPER BMPs ARE TO KEEP SEDIMENT OFF ROADS. SWALE ROUTING RUNOFF AWAY FROM ROADS AND LOTS PREFERRED WITH SIGNIFICANT GRADING DISTURBANCE TO THE NORTH.



CENTERLINE LINE TABLE

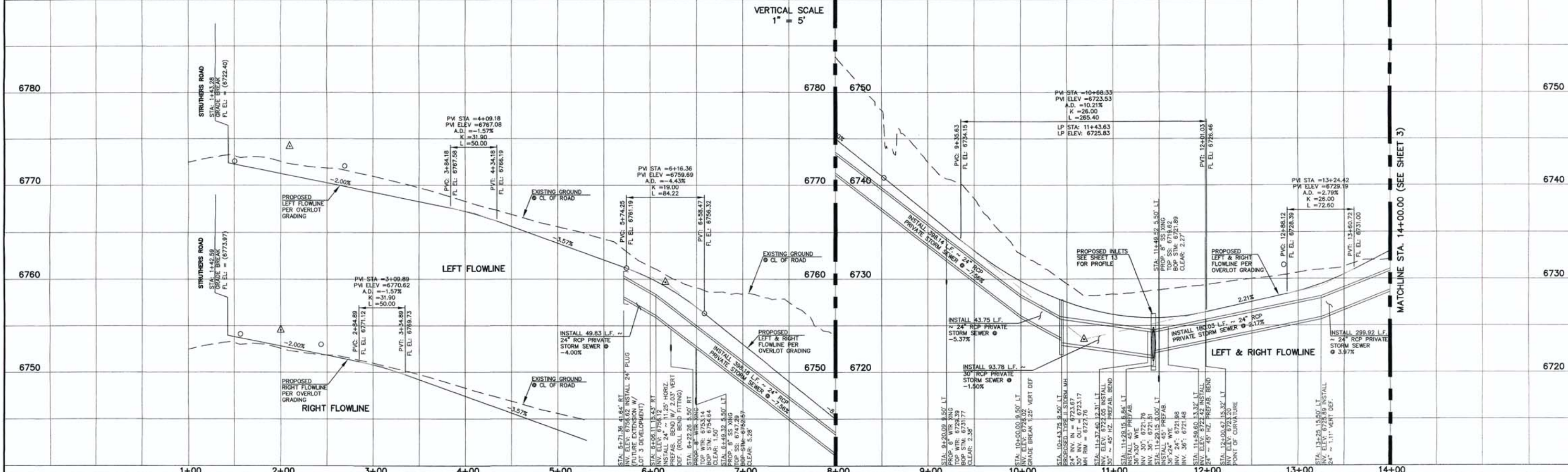
LINE	LENGTH	BEARING
L1	65.82	S221°19'W
L2	126.69	S58°17'37"W
L3	297.51	S56°38'25"E
L4	66.17	S56°36'25"E
L5	307.44	N49°04'22"E

CENTERLINE CURVE TABLE

CURVE	DELTA	LENGTH	RADIUS
C1	36°00'19"	78.55	125.00
C2	114°56'02"	250.75	125.00
C3	74°19'13"	162.14	125.00

FLOWLINE CURVE TABLE

CURVE	DELTA	LENGTH	RADIUS
C1	87°14'41"	45.68	30.00
C2	89°51'22"	47.05	30.00
C3	36°00'19"	65.98	105.00
C4	44°07'09"	77.00	100.00
C5	114°56'02"	10.25	50.00
C6	114°56'02"	290.87	125.00
C7	114°56'02"	210.63	105.00
C8	74°19'13"	136.20	105.00
C9	74°19'13"	188.08	145.00



DESIGN DATA: GLENEAGLE GATE VIEW

PAVEMENT:
 TYPE: HMA PCC
 THICKNESS _____

COMPOSITE SECTION:
 HMA _____
 BASE _____
 SUBGRADE STABILIZATION: _____

CHEMICAL: MECH.
 TYPE: _____
 THICKNESS _____

DESIGN DATA:
 WIDTH: _____
 LOCATION: Attached Detached
 CURB TYPE: A B C D
 R/W WIDTH VARIES MAT WIDTH VARIES
 STREET TYPE: URBAN LOCAL HVEEM _____

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS

811
 UTILITY NOTIFICATION OF COLORADO
 IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION DATE

1	1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS	3/15/17
2	EPC COMMENTS	4/19/17

REVISION:
 PREPARED UNDER THE SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

Kyle R. Campbell
 KYLE R. CAMPBELL, COLORADO P.E. #29794

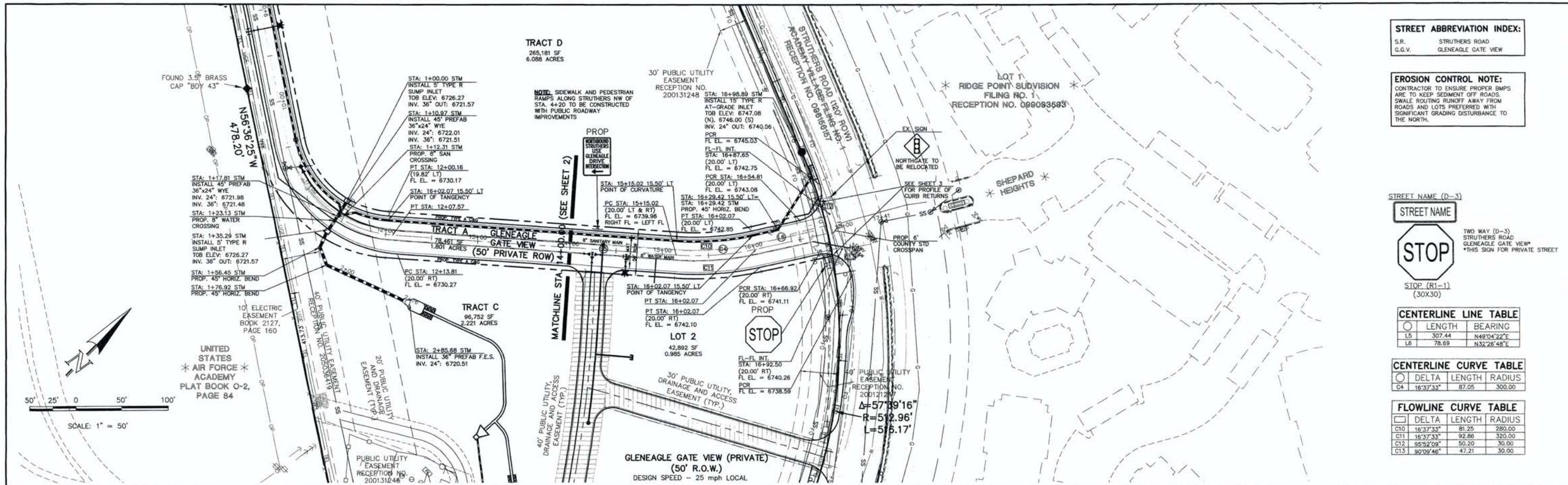
Colin J. ...
 DATE

CLASSIC CONSULTING ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200
 Colorado Springs, Colorado 80903
 (719)785-0790
 (719)785-0799 (fax)

ACADEMY GATEWAY SUBDIVISION
 FILING NO. 1-STREET IMPROVEMENT PLAN
 GLENEAGLE GATE VIEW
 STA. 1+00.00 TO STA. 14+00.00

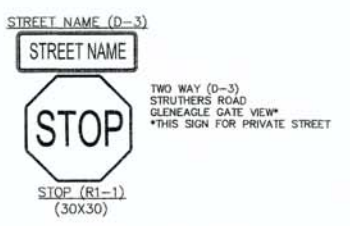
DESIGNED BY	KRC	SCALE	DATE	12/14/16
DRAWN BY	JRH	(H) 1" = 50'	SHEET	12 OF 13
CHECKED BY	KRC	(V) 1" = 5'	JOB NO.	2507.00



STREET ABBREVIATION INDEX:

S.R.	STRUTHERS ROAD
G.G.V.	GLENEAGLE GATE VIEW

EROSION CONTROL NOTE:
 CONTRACTOR TO ENSURE PROPER BMPs ARE TO KEEP SEDIMENT OFF ROADS. SWALE ROUTING RUNOFF AWAY FROM ROADS AND LOTS PREFERRED WITH SIGNIFICANT GRADING DISTURBANCE TO THE NORTH.



CENTERLINE LINE TABLE

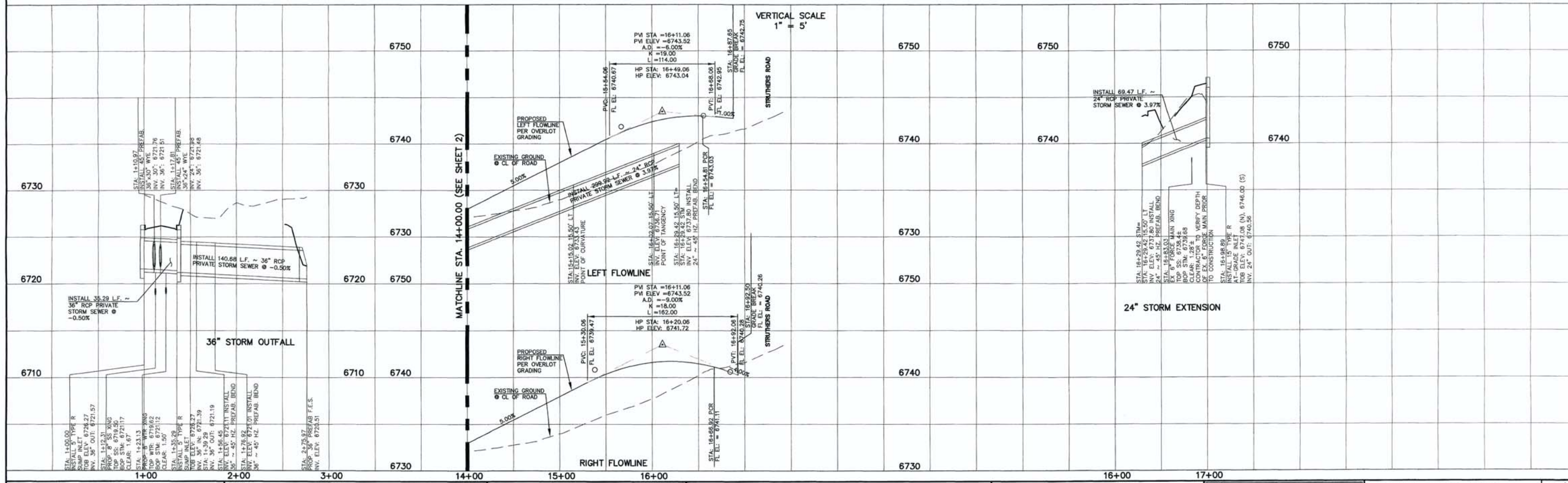
	LENGTH	BEARING
L5	307.44	N49°04'22"E
L6	78.99	N32°26'48"E

CENTERLINE CURVE TABLE

	DELTA	LENGTH	RADIUS
C4	16°37'33"	87.05	300.00

FLOWLINE CURVE TABLE

	DELTA	LENGTH	RADIUS
C10	16°37'33"	81.25	280.00
C11	16°37'33"	92.86	320.00
C12	95°52'09"	50.20	30.00
C13	90°09'46"	47.21	30.00



DESIGN DATA: GLENEAGLE GATE VIEW

PAVEMENT:
 TYPE: HMA PCC
 THICKNESS _____
 COMPOSITE SECTION _____
 HMA _____
 BASE _____
 SUBGRADE STABILIZATION: _____
 CHEMICAL: MECH.:

SIDEWALKS: WIDTH: _____ LOCATION: Attached Detached

CURB TYPE: A B C D

R/W WIDTH: 50' **MAT WIDTH:** 36'

STREET TYPE: URBAN LOCAL **HVEEM:** _____ **THICKNESS:** _____

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811

UTILITY NOTIFICATION OF COLORADO IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION

NO.	REVISION	DATE
1	1/17/17 EPC COMMENTS / ROUND-ABOUT REVISIONS	3/15/17
2	EPC COMMENTS	4/19/17

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC.

Kyle R. Camacho
 KYLE R. CAMACHO, COLORADO, #29794

DATE: 4/21/17



ACADEMY GATEWAY SUBDIVISION
FILING NO. 1-STREET IMPROVEMENT PLAN
 GLENEAGLE GATE VIEW
 STA. 14+00.00 TO STA. 16+97.45

DESIGNED BY	KRC	SCALE	DATE	12/14/16
DRAWN BY	JRH	(H) 1" = 50'	SHEET	13 OF 13
CHECKED BY	KRC	(V) 1" = 5'	JOB NO.	2507.00