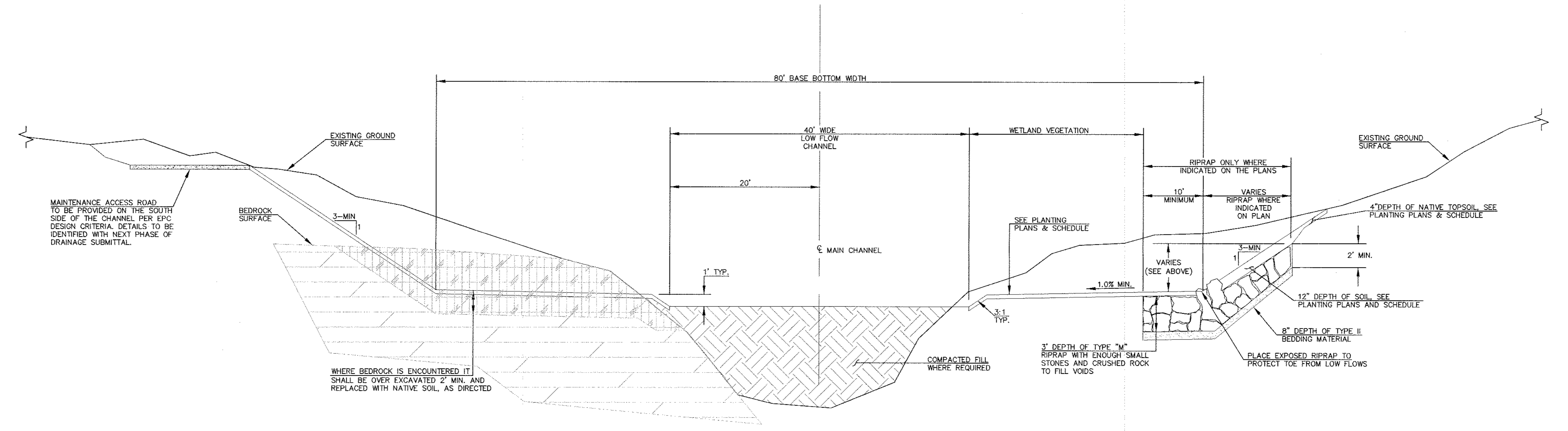


**TYPICAL SECTION-BEND TO RIGHT**  
 SCALE: 1"=10'-HORIZ.  
 SCALE: 1"=5'-VERT.



**TYPICAL SECTION-BEND TO RIGHT**  
 SCALE: 1"=10'-HORIZ.  
 SCALE: 1"=5'-VERT.

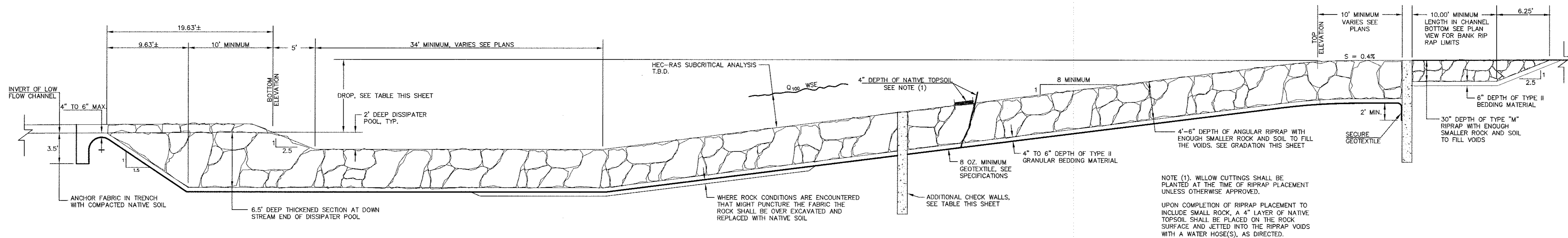
NOTE:  
 1) ALL SECTIONS SHOWN  
 LOOKING UPSTREAM

**CLASSIC**  
 CONSULTING  
 ENGINEERS & SURVEYORS

6385 Corporate Drive, Suite 101  
 Colorado Springs, Colorado 80919  
 (719)785-0790  
 (719)785-0799 (fax)

SOUTH ACADEMY STATION PROPOSED CHANNEL IMPROVEMENTS FISHERS CANYON DRAINAGEWAY TYPICAL CHANNEL SECTIONS			
DESIGNED BY	JRB	SCALE	DATE
DRAWN BY	JWW	(H) 1"= 10'	SHEET 1 OF 1
CHECKED BY	(V) 1"= 5'	JOB NO.	2184.00
			09/19/06





**SLOPING BOULDER DROP ROCK GRADATION**

% PASSING	DIAMETER (inches)	WEIGHT (lbs)
D <sub>100</sub>	40-54	4,790-11,350
D <sub>85</sub>	35-48	3,120- 8,300
D <sub>50</sub>	27-40	1,420- 4,790
D <sub>10</sub>	22-35	730- 3,120

**COEFFICIENT OF UNITY:**  
D<sub>50</sub> / D<sub>10</sub> ≤ 2.0

ROCK SHALL BE ANGULAR IN SHAPE, ROCK SIZES SHALL BE UNIFORMLY DISPERSED. AVOID AREAS OF SMALL ROCK.

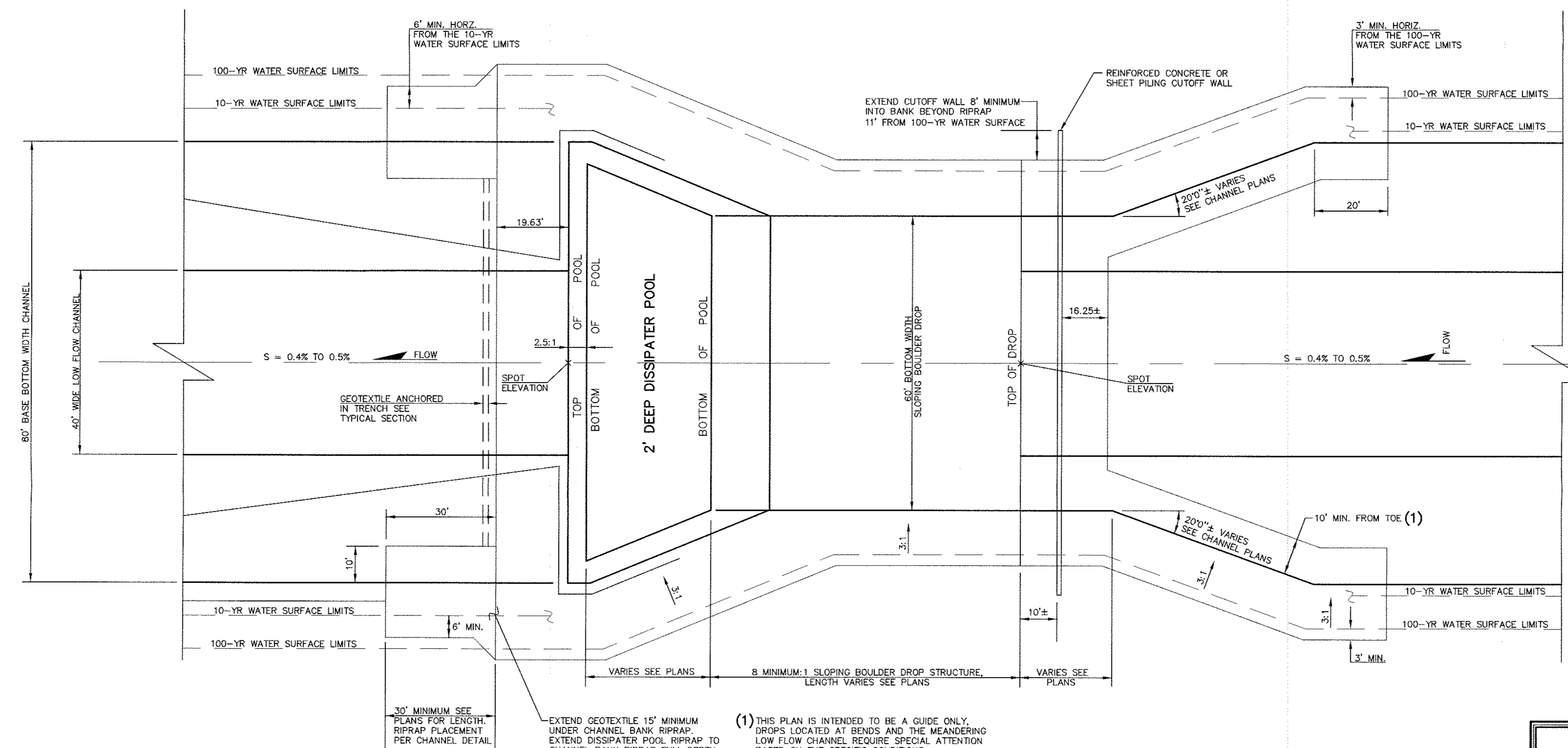
CHANNEL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 620 DRAINAGE CHANNELS AND SUBSECTION 624.01 RIPRAP CHANNEL IN PARTICULAR, OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.

T.B.D.

**SLOPING BOULDER DROP STRUCTURE VERTICAL DROPS**

STRUCTURE NO.	TOP ELEVATION	BOTTOM ELEVATION	DROP FT.	HORIZ. SLOPE LENGTH	ADDITIONAL CHECK WALL
DS-1	6581.21	6576.00	5.21	58	0 - SHEET PILING CUTOFF WALL REQUIRED AT DOWN STREAM END TO PREVENT HEAD CUT FROM MOVING UPSTREAM
DS-2	6594.73	6583.75	10.98	104	
DS-3	6601.00	6595.71	5.29	58	0 - VH RIPRAP REQUIRED UPSTREAM OF CUTOFF WALL TO EXISTING GABION STRUCTURE AND ON BANKS AT CULVERT OUTLET V (SUPER CRITICAL @ SECTION 373) = 15fps

**TYPICAL SECTION - SLOPING BOULDER DROP STRUCTURE**  
SCALE: 1" = 6'



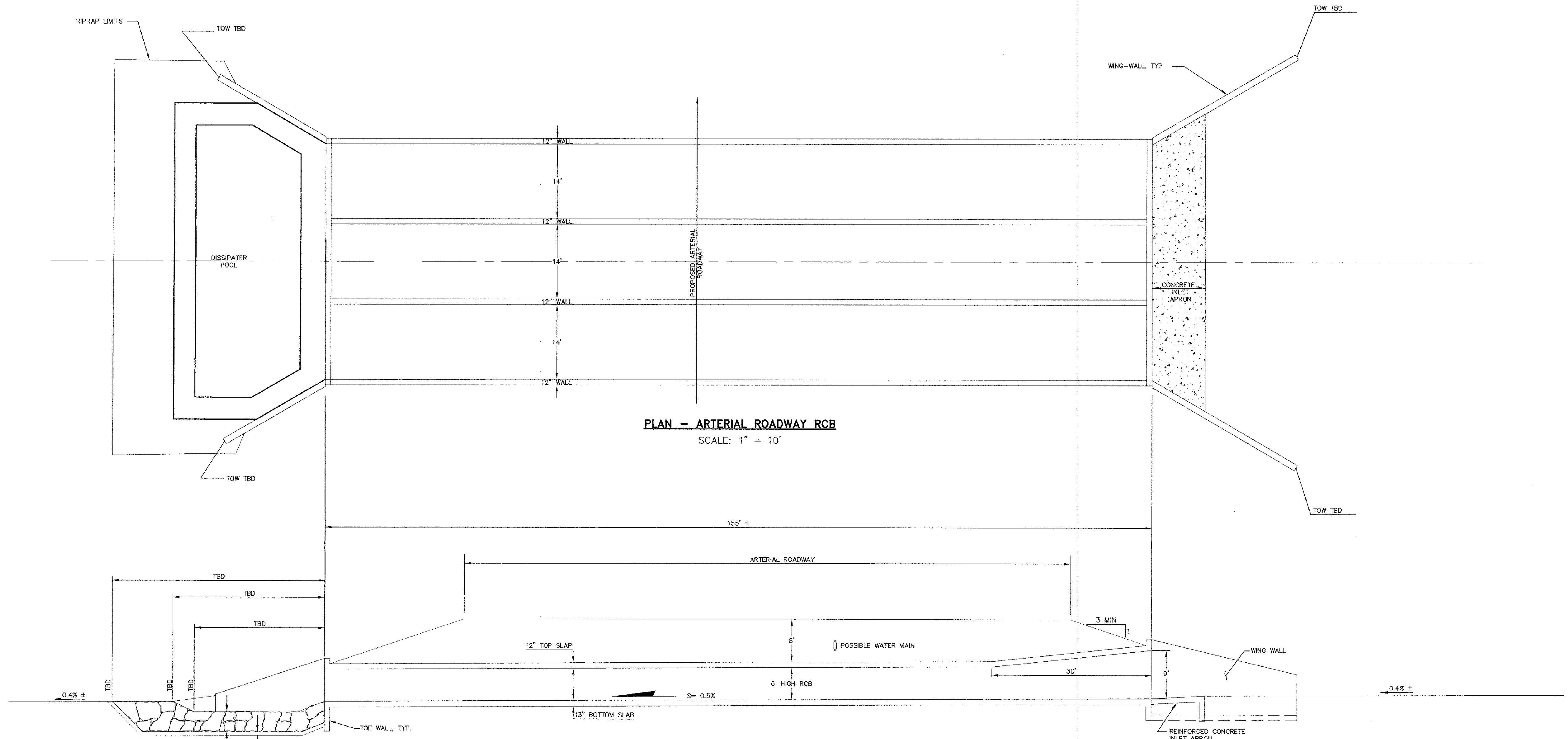
**PLAN - SLOPING BOULDER DROP STRUCTURE**  
SCALE: 1" = 20'

6385 Corporate Drive, Suite 101  
Colorado Springs, Colorado 80919

(719) 785-0790  
(719) 785-0799 (Fax)

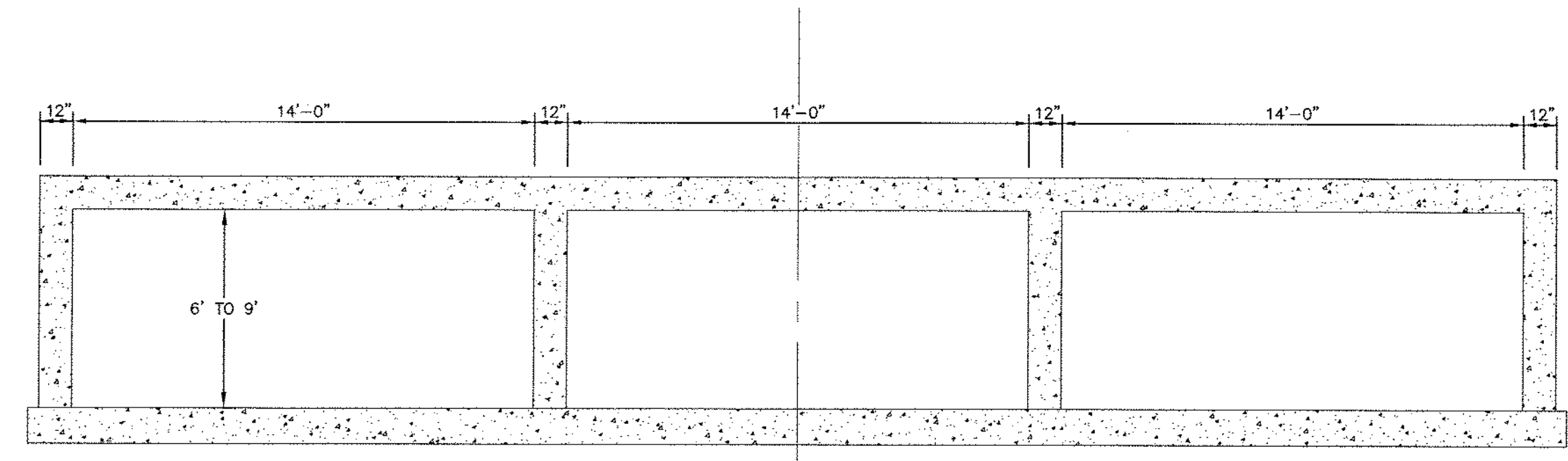
**FISHERS CANYON DRAINAGEWAY**  
CHANNEL IMPROVEMENTS  
SLOPING BOULDER DROP STRUCTURE  
PLAN & TYPICAL SECTION

DESIGNED BY	JRB	SCALE	DATE	09/19/06
DRAWN BY	JWW	(H) 1" = VARIES	SHEET	1 OF 1
CHECKED BY	(V) 1" = VARIES	JOB NO.	2184.00	

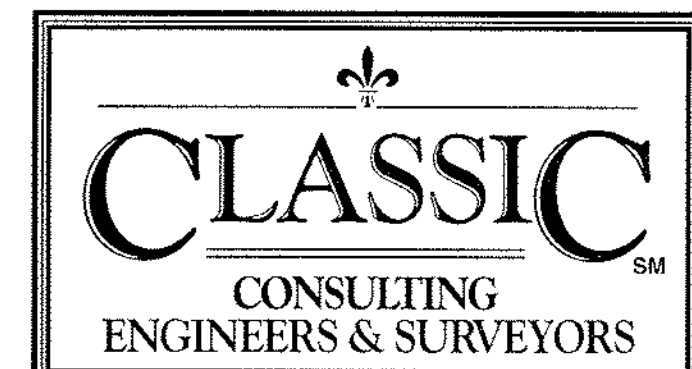


**PLAN - ARTERIAL ROADWAY RCB**  
SCALE: 1" = 10'

**SECTION THRU THE C OF THE PROPOSED RCB**  
SCALE: 1" = 10'



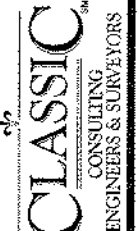
**TYPICAL SECTION  
REINFORCED CONCRETE BOX CULVERT**  
SCALE: 1" = 4'



SOUTH ACADEMY STATION  
PROPOSED CHANNEL IMPROVEMENTS  
CROSSING OF PROPOSED ARTERIAL ROADWAY

DESIGNED BY	JRB	SCALE	DATE	08/28/06
DRAWN BY	JWW	(H)1" = VARIES	SHEET	1 OF 1
CHECKED BY	(V)1" = N/A		JOB NO.	2184.00

6385 Corporate Drive, Suite 101 (719) 785-0790  
Colorado Springs, Colorado 80919 (719) 785-0799 (Fax)



X:\2184\2184-001-1\SMD\2P\_Maps\...TERIAL\_RCB.dwg, 4/13/2009, 4:13:13 PM, RJB0001.dwg