

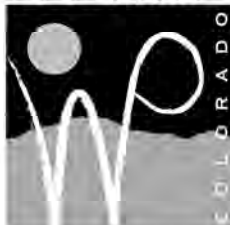
FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT DOWNSTREAM OF EAST SHERIDAN AVENUE

90% DESIGN - MARCH 2013

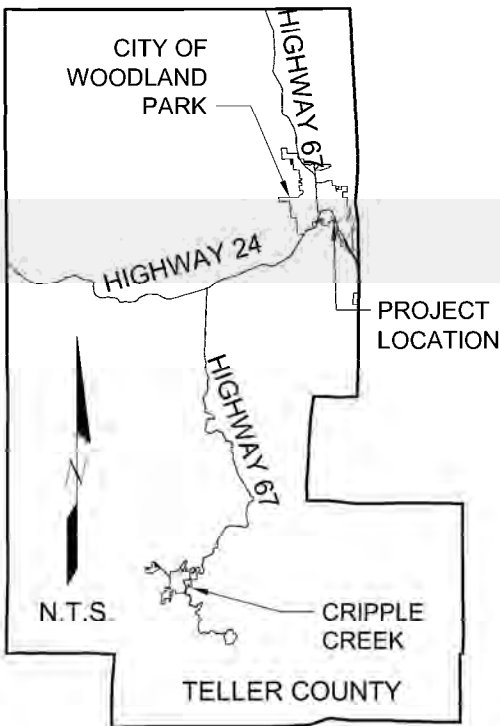
PREPARED FOR:

CITY OF WOODLAND PARK, COLORADO
PUBLIC WORKS DEPARTMENT

ELEVATE!



WOODLAND PARK
CITY ABOVE THE CLOUDS

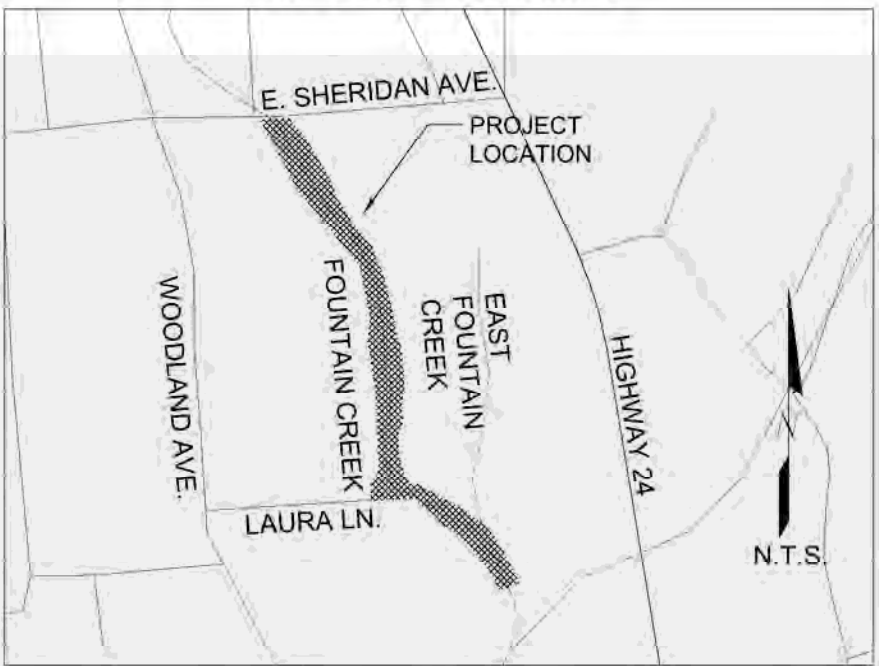


LOCATION MAP

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD.

THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



SITE MAP

INDEX TO SHEETS

SHEET	DWG	DESCRIPTION
1	ID-100	COVER SHEET
2	ID-101	GENERAL NOTES, ABBREVIATIONS & SYMBOLS
3	C-100	OVERALL HORIZONTAL AND VERTICAL CONTROL PLAN
4	C-101	DEMOLITION PLAN
5	C-200	PLAN AND PROFILE STA 12+00 TO STA 16+80
6	C-201	PLAN AND PROFILE STA 16+80 TO STA 21+20
7	C-202	PLAN AND PROFILE STA 21+20 TO STA 26+00
8	C-203	RIP RAP OUTLET AND SHEET PILE STA 12+00 TO STA 14+20
9	C-204	BASIN 1 LOCAL DRAINAGE PLAN AND PROFILE STA 0+80 TO STA 6+20
10	C-205	BASIN 2 LOCAL DRAINAGE PLAN AND PROFILE STA 0+80 TO STA 5+00
11	C-206	BASIN 3 LOCAL DRAINAGE PLAN AND PROFILE STA 0+80 TO STA 5+00
12	C-400	SAN SEWER PLAN AND PROFILE
13	C-600	CROSS SECTIONS STA 12+00 TO STA 15+50
14	C-601	CROSS SECTIONS STA 16+00 TO STA 19+50
15	C-602	CROSS SECTIONS STA 20+00 TO STA 23+50
16	C-603	CROSS SECTIONS STA 24+00 TO STA 25+50
17	C-700	EROSION & SEDIMENT CONTROL PLAN
18	C-701	EROSION & SEDIMENT CONTROL DETAILS
19	C-800	CDOT STANDARD M & S DETAILS
20	C-801	CITY OF WOODLAND PARK STANDARD DETAILS
21	C-802	CIVIL DETAILS
22	S1	STEEL DETAILS
23	S2	STEEL DETAILS
24	S3	STEEL DETAILS
25	S4	STEEL DETAILS
26	S5	STEEL DETAILS
27	S6	STEEL DETAILS
28	L-100	SEEDING & PLANTING-OVERALL
29	L-200	SEEDING & PLANTING STA X-XX TO STA X-XX
30	L-201	SEEDING & PLANTING STA X-XX TO STA X-XX
31	L-202	SEEDING & PLANTING STA X-XX TO STA X-XX

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987 OR 811
CALL 2 BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

CIVIL ENGINEER

AYRES ASSOCIATES
12050 N PECOS ST, SUITE 150
WESTMINSTER, CO 80234
(303) 938-8874
CONTACT: RICHARD SMITH, P.E.

GEOTECHNICAL ENGINEER

TERRACON CONSULTANTS
4172 CENTER PARK DRIVE
COLORADO SPRINGS, CO 80916
(719) 597-2116
CONTACT: RYAN FEIST, P.E.

LANDSCAPE ARCHITECT

DESIGNING ENVIRONMENTS
780 PINON RIDGE DRIVE
WOODLAND PARK, CO 80863
(404) 403-6732
CONTACT: CATHERINE EVERETT

SURVEYOR

RAMPART SURVEYS, INC
1050 TAMARAC PARKWAY
WOODLAND PARK, CO 80863
(719) 687-0920
CONTACT: KEVIN LLOYD, PLS

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:

(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE) _____ DATE _____

APPROVED FOR CONSTRUCTION
CITY ENGINEER OR APPOINTED REPRESENTATIVE _____ DATE _____

"AS-BUILT" CERTIFIED BY: _____ DATE _____

(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE) _____ DATE _____

APPROVED FOR "AS-BUILT" RECORD
CITY ENGINEER OR APPOINTED REPRESENTATIVE _____ DATE _____

90% SUBMITTAL
DATE: 01-11-2013

REV	DATE	DESCRIPTION

DESIGNED BY	RTS
DRAWN BY	MDH
DATE	01-11-2013

PROJECT ENGINEER	MATTHEW D. HICKOX, EI
PROJECT MANAGER	RICHARD T. SMITH, PE
PROJECT NO.	35409

AYRES ASSOCIATES	12050 N. Pecos Street, Suite 150 Westminster, Colorado 80234 303.938.8874 PHONE 303.938.8211 FAX
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ELEVATE! WOODLAND PARK	220 W. SOUTH AVENUE PO BOX 5007 WOODLAND PARK, CO 80866
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FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT
COVER SHEET

DRAWING NO.	ID-100
PROJECT NO.	35-0200.00
FILE NO.	COVER SHEET
SHEET	1
OF	31

GENERAL NOTES:

1. DIMENSIONS AND NOTATIONS SUPERSEDE SCALE OF THE DRAWINGS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE, CONVEYANCE, AND CONTROL OF ALL SURFACE AND SUBSURFACE WATER FLOWS IN AND ENTERING FOUNTAIN CREEK DRAINAGE FACILITIES AFFECTED BY THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OPERATIONS OR ANY OTHER ACCEPTABLE MEANS TO PREVENT POLLUTION OF FOUNTAIN CREEK IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT PERMIT REQUIREMENTS.
3. UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION HAVE BEEN LOCATED FROM FIELD INVESTIGATION AND THE AVAILABLE UTILITY RECORDS. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE LOCATION AND PROTECTION OF ANY UTILITIES AFFECTED BY THE EXECUTION OF THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND AGENCIES AND FOR THE COORDINATION OF ALL WORK IN THE PROXIMITY OF THE UTILITIES.
4. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE OWNERS. THE OWNERS RESERVE THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE STANDARDS AND SPECIFICATIONS SHOWN IN THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE APPROVED PLANS, ONE COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS NEEDED AT THE JOB SITE AT ALL TIMES.
6. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL MEET WITH THE OWNER'S REPRESENTATIVE AND RECORD NOTES OF EXISTING CONDITIONS OF THE SITE AND ADJACENT PROPERTY. THE CONTRACTOR SHALL VIDEO THE ENTIRE SITE AND PROVIDE A COPY OF THE VIDEO TO THE OWNER PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL NOTE THAT ALL UTILITIES MAY NOT APPEAR ON THESE PLANS AND THAT THE POTENTIAL CONFLICT WITH UTILITIES SHALL BE CONSIDERED IN THE PREPARATION OF COST ESTIMATES AND BIDS.
8. THE CONTRACTOR SHALL CONTACT ALL UTILITY OWNERS FOR INSPECTION WHEN WORK IS SCHEDULED ADJACENT TO THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING AFFECTED UTILITIES IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND THE REQUIREMENTS OF THE UTILITY OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AND COSTS ASSOCIATED WITH INTERRUPTED OR LOST SERVICE DUE TO DAMAGE TO THESE FACILITIES.
9. THE CONTRACTOR SHALL REFER TO THE CONTRACT SPECIFICATIONS FOR DESCRIPTION OF MATERIALS REFERRED TO BY SIZE, CLASS, TYPE, DESCRIPTION, OR OTHERWISE SPECIFIED ON THE DRAWINGS.
10. THE CONTRACTOR IS RESPONSIBLE FOR SAVING AND PROTECTING ALL EXISTING TREES AND VEGETATION WHERE REMOVAL FOR CONSTRUCTION IS NOT MANDATORY.
11. UNAUTHORIZED CHANGES AND USES: THE ENGINEER WHO PREPARED THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS AND SPECIFICATIONS MUST BE IN WRITING AND MUST BE APPROVED BY THE OWNER AND THE PREPARER OF THESE PLANS.
12. THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE IMMEDIATELY OF ANY FIELD CONDITION NOT CONSISTENT WITH THE CONSTRUCTION DOCUMENTS.
13. THE CONTRACTOR SHALL PERFORM ALL WORK WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE DRAWINGS AND DISCUSSED IN THE CONTRACT DRAWINGS. IF THE CONTRACTOR DAMAGES ANY EXISTING SITE OR PUBLIC AMENITIES (PAVEMENTS, CURBS, CURB AND GUTTER, SOD, TREES, FENCES, ETC.) OUTSIDE OR WITHIN THE EASEMENTS OR CONSTRUCTION LIMITS, HE SHALL REMOVE AND REPAIR SUCH TO THE SATISFACTION OF THE INDIVIDUAL PROPERTY OWNERS.
14. ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS NOTED OTHERWISE IN THE PLANS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY EROSION CONTROL THROUGHOUT THE CONSTRUCTION DURATION AND SHALL INSTALL EROSION CONTROL MEASURES AS REQUIRED BY THE SWMP PLAN.
16. THE EXACT LIMITS OF THE CONTRACTOR'S PARKING AND STAGING AREA FOR MATERIAL STOCKPILING, OFFICE TRAILERS, AND PARKING FOR PUBLIC SHALL BE ESTABLISHED BY THE CONTRACTOR WITH THE APPROVAL OF THE OWNER'S REPRESENTATIVE. IT IS THE CONTRACTORS RESPONSIBILITY TO SECURE WRITTEN PERMISSION FROM THE LANDOWNER FOR ANY ACCESS, STOCKPILE, OR STAGING AREAS OUTSIDE THE CONSTRUCTION LIMITS SHOW ON THE PLANS.
17. ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S STAGING AREA SHALL BE ARRANGED BY THE CONTRACTOR DIRECTLY WITH THE APPROPRIATE UTILITY AGENCY. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE CONTRACTOR TO ENCLOSE AND SET UP HIS OPERATIONAL AREA. ADDITIONALLY, THE CONTRACTOR SHALL RESTORE THE SITE TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE UPON COMPLETION OF THE CONTRACT WORK.
18. WASTE MATERIAL PRODUCED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE LEGALLY DISPOSED OF OFF THE PROJECT SITE OR AS DIRECTED BY THE OWNERS REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
19. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS THAT ARE PERTINENT TO THIS WORK.
20. ANY CONSTRUCTION DEBRIS OR MUD TRACKING ONTO THE PUBLIC RIGHT-OF-WAY, RESULTING FROM THE PROJECT, SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY FIX ANY EXCAVATION, OR PAVEMENT FAILURE CAUSED BY THE PROJECT, AND SHALL PROPERLY BARRICADE THE SITE UNTIL CONSTRUCTION IS COMPLETE.
21. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT, AND ADJACENT TO THE JOB SITE, INCLUDING BUT NOT LIMITED TO TRENCH EXCAVATIONS AND SHORING, TRAFFIC CONTROL, SECURITY, AND SAFETY OF ALL PERSONS AND PROPERTY, DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE OWNERS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN OR NEAR THE CONSTRUCTION SITE.
22. THE CONTRACTOR SHALL NOTE THAT VERTICAL ELEVATION CALLOUTS SHOWN ON THE PLANS APPEAR IN THE FOLLOWING TWO FORMATS: 83XX.XX OR XX.XX.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NEEDED DEWATERING OPERATIONS.
24. UNLESS OTHERWISE NOTED, ALL GRADES SHOWN ARE FINISHED GRADES.
25. CONTRACTOR SHALL USE CLASS AA CONCRETE AS SPECIFIED IN SPECIFICATION SECTION 03 30 00 - CAST-IN-PLACE CONCRETE FOR ANY PLAN REFERENCE TO CLASS B OR CLASS D CONCRETE .

CITY OF WOODLAND PARK SANITARY SEWER GENERAL NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF WOODLAND PARK ENGINEERING SPECIFICATIONS. WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY AUTHORIZED CITY OF WOODLAND PARK PERSONNEL.
2. ALL NEW SEWER MAINS SHALL BE PVC, STANDARD DIMENSION RATIO (SDR)-35 PIPE IN ACCORDANCE WITH ASTM D-3034, BELL AND SPIGOT WITH ELASTOMERIC SEAL. PVC PRESSURE PIPE C-900, DR-18/DR-24 MAY ALSO BE USED. WHEN PVC C-900 PRESSURE PIPE IS USED FOR SEWERS OR FORCE MAINS, THE CONTRACTOR SHALL REQUEST FROM THE PIPE MANUFACTURER CERTIFICATION THAT THE JOINT GASKETS ARE COMPATIBLE FOR USE WITH RAW SEWAGE.
3. THE CONTRACTOR SHALL FURNISH THE DESIGN ENGINEER "AS CONSTRUCTED" LOCATIONS OF ALL FACILITIES INSTALLED AND THIS, IN TURN, SHALL BE SUBMITTED TO THE CITY OF WOODLAND PARK ON "AS-BUILT" PLANS, PREPARED BY THE DESIGN ENGINEER.
4. RIM ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE PIPELINE CONTRACTOR SHOULD ALLOW APPROXIMATELY THE TOP ONE (1') FOOT TO BE ADJUSTED EITHER UP OR DOWN IN ORDER TO MATCH FINAL PAVEMENT ELEVATION. THE MAXIMUM ADJUSTMENT TO FINAL GRADE IS 12 INCHES WITH CONCRETE RINGS.
5. BEDDING AND BACKFILL MATERIALS FOR BOTH WATER AND SEWER SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF WOODLAND PARK ENGINEERING SPECIFICATIONS.
6. A PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN THE CONTRACTOR AND CITY ENGINEER OR APPOINTED REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
7. ALL SANITARY SEWER MANHOLE CONES SHALL BE ECCENTRIC AND THE VERTICAL PORTION SHALL BE TURNED TOWARD THE CENTER OF THE STREET IN ALL INSTANCES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING NEARBY PUBLIC STREETS OF MUD OR DEBRIS DUE TO CONSTRUCTION ACTIVITY ON A DAILY BASIS OR AS OTHERWISE DIRECTED BY AUTHORIZED CITY PERSONNEL.
9. THE CONTRACTOR SHALL CONTROL THE SEWER INSTALLATION USING CONSTRUCTION STAKING PROVIDED BY A LICENSED SURVEYOR. SEWER LINES SHALL BE STAKED FOR LINE AND GRADE. CUT SHEETS SHALL BE PROVIDED TO THE CITY INSPECTOR PRIOR TO CONSTRUCTION OF THE SEWER.

LEGEND

X

C-XXX

DETAIL

NUMBER FOR DETAILS OR ENLARGED AREAS

DWG. ON WHICH DETAIL OCCURS

X

C-XXX

SECTION

NUMBER

DWG. ON WHICH SECTION OCCURS

X

C-XXX

PROFILE

LETTER FOR PROFILE

DWG. NUMBER

PROPERTY LINE

CONSTRUCTION LIMITS

FO

FO

EX. UNDERGROUND FIBER OPTIC LINE

G

G

EX. UNDERGROUND GAS LINE

OE

EX. OVERHEAD UTILITY LINE

T

T

EX. UNDERGROUND TELEPHONE LINE

S

S

EX. SANITARY SEWER LINE

S

EX. SANITARY SEWER MANHOLE

ST

EX. STORM SEWER MANHOLE

10'

EX. TREE

BH#1

BOREHOLE LOCATION

CONCRETE

EX. RIPRAP

PROPOSED RIPRAP

EX. FENCE

EX. MAJOR CONTOUR

EX. MINOR CONTOUR

PROPOSED MAJOR CONTOUR

PROPOSED MINOR CONTOUR

ABBREVIATIONS

W/	WITH	TOG	TOP OF GROUT
MIN	MINIMUM	TOB	TOP OF BOULDER
MAX	MAXIMUM	FG	FINISHED GRADE
TYP	TYPICAL	FL	FLOW LINE
STD	STANDARD	R.O.W.	RIGHT OF WAY
EL	ELEVATION	EX.	EXISTING
ELEV	ELEVATION	RCB/RCBC	REINFORCED CONCRETE BOX CULVERT
INV	INVERT	RCP	REINFORCED CONCRETE PIPE
QTY	QUANTITY	CMP	CORRUGATED METAL PIPE
CLR	CLEARANCE	STA	STATION
CONC	CONCRETE	N.T.S.	NOT TO SCALE
BTW	BETWEEN	OHU	OVERHEAD UTILITY
APPROX	APPROXIMATE	CL	CENTERLINE
N	NORTHING/NORTH	BRG	BEARING
E	EASTING/EAST	ABUT	ABUTMENT
S	SOUTH	E.F.	EACH FACE
W	WEST	F.F.	FRONT FACE
NO.	NUMBER	B.F.	BACK FACE
DWG	DRAWING	SPA	SPACING/SPACED
GB	GRADE BREAK	HORIZ	HORIZONTAL
EOR	EDGE OF RIPRAP	VERT	VERTICAL
EOB	EDGE OF BOULDERS	DIA	DIAMETER
EOC	EDGE OF CONCRETE	LG	LONG
EOT	EDGE OF TRAIL	ID	INNER DIAMETER
PROP	PROPOSED		

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:

(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)

DATE

APPROVED FOR CONSTRUCTION

CITY ENGINEER OR APPOINTED REPRESENTATIVE

DATE

"AS-BUILT" CERTIFIED BY:

(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)

DATE

APPROVED FOR "AS-BUILT" RECORD

CITY ENGINEER OR APPOINTED REPRESENTATIVE

DATE

90% SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	APP

DESIGN BY:	RTS
DRAWN BY:	MDH
DATE:	01-11-2013
PROJECT ENGINEER	MATTHEW D. HICKOX, EI
PROJECT MANAGER	RICHARD T. SMITH, PE
PE NO.	35409

ELEVATE!

WOODLAND PARK

City & County of the Mountains

220 W. SOUTH AVENUE

PO BOX 9007

WOODLAND PARK, CO 80866

12050 N. Pecos Street, Suite 150

Westminster, Colorado 80234

303.938.8874 PHONE

303.938.8211 FAX

FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT

GENERAL NOTES
ABBREVIATIONS & SYMBOLS

DRAWING NO.	ID-101	SHEET	2
PROJECT NO.	35-0200.00	OF 31	SHEETS
FILE NO.	COVER SHEET.dwg		

3/18/2013 8:02 AM C:\USERS\HICKOX\MESKTOP\WORK\RDVE_P\350200.00 FOUNTAIN CREEK CHANNEL IMPROVEMENTS\DESIGN\DWG\FOUNTAIN CREEK\PRODUCTION DRAWINGS\COVER SHEET.DWG

3/18/2013 8:02 AM C:\USERS\HICKOX\M\Desktop\PROJECTS\2013\032020.00 FOUNTAIN CREEK CHANNEL IMPROVEMENTS\DESIGN\DWG\FOUNTAIN CREEK PRODUCTION DRAWINGS\PROJECT CONTROL.DWG

BASIN 1 ALIGNMENT

LINE TABLE				
LINE	LENGTH	BEARING	NORTHING	EASTING
B1-L1	24.00'	N35° 08' 14.74"E	6345.29	4942.44
B1-L2	3.66'	N5° 26' 21.58"W	6348.93	4942.10
B1-L3	55.23'	N27° 28' 36.10"W	6397.93	4916.62
B1-L4	3.92'	N10° 01' 59.83"W	6401.79	4915.93
B1-L5	17.03'	N15° 11' 20.56"W	6418.23	4911.47
B1-L6	10.36'	N18° 01' 12.41"W	6428.08	4908.26
B1-L7	10.34'	N17° 39' 04.50"W	6437.93	4905.13
B1-L8	40.01'	N4° 17' 40.81"W	6477.83	4902.13
B1-L9	17.02'	N0° 32' 37.93"W	6494.86	4901.97
B1-L10	5.17'	N4° 25' 41.61"E	6500.01	4902.37
B1-L11	25.04'	N10° 21' 04.15"E	6524.65	4906.87
B1-L12	25.09'	N2° 00' 08.49"E	6549.73	4907.75
B1-L13	75.00'	N6° 56' 25.01"E	6624.18	4916.81
B1-L14	15.23'	N3° 05' 33.77"W	6639.39	4915.99
B1-L15	2.37'	N0° 48' 14.62"E	6641.76	4916.02
B1-L16	3.87'	N10° 22' 04.97"W	6645.56	4915.32
B1-L17	33.38'	N3° 44' 21.77"W	6678.85	4913.15
B1-L18	50.11'	N8° 18' 25.17"W	6728.43	4905.91
B1-L19	50.01'	N13° 15' 05.66"W	6777.11	4894.45
B1-L20	50.02'	N10° 30' 07.02"W	6826.29	4885.33
B1-L21	23.15'	N6° 49' 45.12"W	6849.28	4882.58

CONTROL POINT TABLE

POINT NO.	POINT NAME	NORTHING	EASTING	ELEV.
1	CP-1	7598.86	4304.35	8367.31
2	CP-2	6933.88	4814.48	8339.74
3	CP-3	5765.94	5768.38	8326.88

SURVEY CONTROL INFORMATION

THIS SITE IS LOCATED IN THE SE1/4 SE1/4 OF SEC. 24, T. 12 S. R. 69 W. AND IN THE SW1/4 SW1/4 OF SEC. 19, T. 12 S., R. 68 W. OF THE 6th P.M. CITY OF WOODLAND PARK, TELLER COUNTY, COLORADO T. 1

THE VERTICAL DATUM IS REFERENCED OF THE NORTH AMERICAN VERTICAL DATUM OF 1988.

FOUNTAIN CREEK ALIGNMENT

CURVE TABLE					
CURVE	LENGTH	RADIUS	CHORD	CHORD BEARING	DELTA
C1	84.98'	200.00'	84.34'	N42° 41' 27"W	24° 20' 37"

LINE TABLE

LINE	LENGTH	BEARING	NORTHING	EASTING
L1	107.93'	N4° 19' 05.70"W	6027.82	5231.34
L2	174.02'	N30° 31' 08.20"W	6177.53	5142.97
L3	83.08'	N54° 51' 45.26"W	6287.33	5017.85
L4	115.54'	N54° 51' 45.26"W	6363.83	4923.36
L5	5.58'	N62° 51' 45.26"W	6357.20	4918.91
L6	5.58'	N48° 51' 45.26"W	6360.88	4914.70
L7	5.58'	N44° 51' 45.26"W	6364.83	4910.76
L8	5.58'	N40° 51' 45.26"W	6369.06	4907.11
L9	5.58'	N36° 51' 45.26"W	6373.52	4903.76
L10	5.58'	N32° 51' 45.26"W	6378.22	4900.73
L11	5.58'	N28° 51' 45.26"W	6383.11	4898.03
L12	5.58'	N24° 51' 45.26"W	6388.17	4895.69
L13	5.58'	N20° 51' 45.26"W	6393.39	4893.70
L14	5.58'	N16° 51' 45.26"W	6398.73	4892.08
L15	5.58'	N12° 51' 45.26"W	6404.18	4890.84
L16	5.58'	N8° 51' 45.26"W	6409.89	4889.97
L17	5.58'	N4° 51' 45.26"W	6415.26	4889.50
L18	80.29'	N2° 51' 45.26"W	6495.45	4885.49
L19	146.83'	N6° 57' 47.51"E	6641.20	4903.29
L20	309.23'	N12° 07' 02.15"W	6943.54	4838.38
L21	291.42'	N32° 38' 31.90"W	7188.93	4881.19
L22	80.02'	N23° 46' 13.48"W	7262.16	4648.94
L23	56.00'	N23° 46' 13.48"W	7313.41	4626.36
L24	193.92'	N50° 12' 18.80"W	7437.53	4477.37
L25	34.33'	N51° 03' 49.60"W	7459.10	4450.87

BASIN 2 ALIGNMENT

LINE TABLE

LINE	LENGTH	BEARING	NORTHING	EASTING
B2-L1	24.00'	N57° 21' 28.10"E	6949.70	4839.19
B2-L2	9.39'	N19° 49' 47.08"E	6958.53	4842.37
B2-L3	47.44'	N26° 42' 51.18"W	7000.91	4821.05
B2-L4	17.32'	N40° 12' 00.31"W	7014.14	4809.87
B2-L5	50.04'	N30° 22' 28.08"W	7057.31	4784.56
B2-L6	49.06'	N32° 12' 24.32"W	7098.82	4758.42
B2-L7	46.45'	N32° 42' 42.94"W	7137.90	4733.32
B2-L8	34.54'	N35° 44' 20.02"W	7165.94	4713.14
B2-L9	20.05'	N36° 11' 23.97"W	7182.11	4701.31
B2-L10	14.89'	N32° 33' 35.97"W	7194.67	4693.29
B2-L11	33.04'	N23° 31' 48.52"W	7224.88	4679.92
B2-L12	19.19'	N20° 20' 12.42"W	7242.87	4673.25
B2-L13	25.35'	N20° 20' 12.42"W	7266.64	4664.45
B2-L14	29.28'	N20° 20' 12.42"W	7294.10	4654.27

BASIN 3 ALIGNMENT

LINE TABLE

LINE	LENGTH	BEARING	NORTHING	EASTING
B3-L1	27.50'	S35° 08' 14.74"W	6309.03	4973.99
B3-L2	4.01'	S85° 51' 11.07"W	6308.74	4969.99
B3-L3	41.58'	N71° 15' 38.08"W	6322.10	4930.62
B3-L4	3.92'	N80° 06' 52.83"W	6324.05	4927.22
B3-L5	20.76'	N44° 31' 02.04"W	6338.85	4912.67
B3-L6	6.57'	N51° 22' 31.19"W	6342.95	4907.53
B3-L7	6.84'	N48° 42' 25.84"W	6347.47	4902.39
B3-L8	6.97'	N43° 45' 21.11"W	6352.50	4897.57
B3-L9	6.90'	N39° 14' 32.33"W	6357.85	4893.20
B3-L10	6.83'	N36° 51' 45.26"W	6363.32	4889.10
B3-L11	6.83'	N32° 51' 45.26"W	6369.05	4885.40
B3-L12	6.82'	N28° 51' 45.26"W	6375.03	4882.11
B3-L13	6.84'	N24° 52' 08.73"W	6381.23	4879.23
B3-L14	6.83'	N20° 51' 45.26"W	6387.62	4876.80
B3-L15	6.83'	N16° 51' 45.26"W	6394.15	4874.81

LINE TABLE

LINE	LENGTH	BEARING	NORTHING	EASTING
B3-L16	6.83'	N12° 51' 45.26"W	6400.81	4873.29
B3-L17	6.83'	N8° 51' 45.26"W	6407.56	4872.24
B3-L18	6.52'	N4° 51' 45.26"W	6414.06	4871.69
B3-L19	12.18'	N3° 17' 08.41"W	6426.21	4870.99
B3-L20	50.00'	N2° 50' 23.04"W	6476.15	4868.51
B3-L21	19.95'	N2° 19' 44.32"W	6496.08	4867.70
B3-L22	8.21'	N2° 19' 44.32"W	6504.29	4867.37
B3-L23	25.53'	N0° 41' 58.35"W	6529.82	4867.06
B3-L24	50.00'	N8° 10' 01.08"E	6579.31	4874.16
B3-L25	50.02'	N9° 25' 37.13"E	6628.66	4882.35
B3-L26	11.78'	N7° 45' 22.78"E	6640.33	4883.94
B3-L27	31.57'	N9° 20' 17.18"W	6671.48	4878.82
B3-L28	19.53'	N9° 14' 11.93"W	6690.76	4875.69
B3-L29	15.02'	N10° 32' 35.87"W	6705.52	4872.94

SANITARY SEWER ALIGNMENTS

LINE TABLE

LINE	LENGTH	BEARING	NORTHING	EASTING
SS-L1	50.00'	N8° 00' 17.18"W	6331.98	4936.71
SS-L2	68.77'	N58° 37' 05.73"W	6367.79	4878.00
SS-L3	160.05'	N2° 24' 03.55"W	6527.69	4871.30
SS-L4	186.61'	N3° 45' 09.40"W	6713.91	4859.08
SS-L5	227.97'	N10° 01' 15.89"W	6938.40	4818.41
SS-L6	59.37'	N0° 00' 00.00"E	6371.34	4936.71
SS-L7	40.83'	N60° 00' 00.00"E	6391.66	4971.90
SS-L8	80.85'	N54° 40' 06.03"E	6562.77	4920.78

AVRES ASSOCIATES

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303.938.8211 FAX



220 W. SOUTH AVENUE
PO BOX 9007
WOODLAND PARK, CO 80866

FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT

OVERALL HORIZONTAL AND
VERTICAL CONTROL PLAN

DRAWING NO.

C-100

PROJECT NO.

35-0200.00

FILE NO.

PROJECT CONTROL.dwg

SHEET

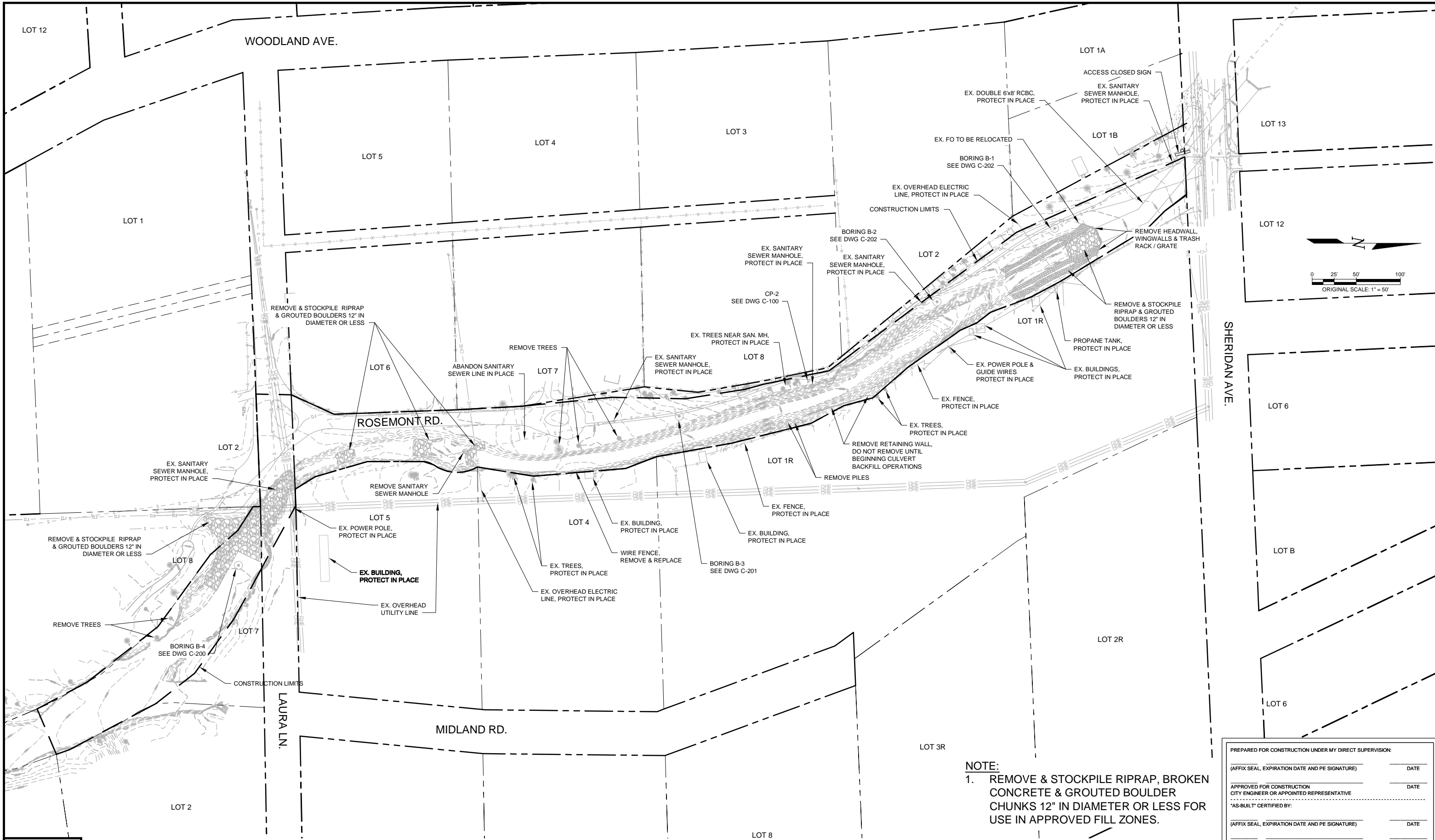
3

OF 31

SHEETS

90% SUBMITTAL
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3/18/2013 8:02 AM C:\USERS\HICKOX\MDESKTOP\WORKDRIVE_P\350200.00 FOUNTAIN CREEK CHANNEL IMPROVEMENTS\DESIGN\DWG\FOUNTAIN CREEK PRODUCTION DRAWINGS\DEMO PLAN.DWG



NOTE:
1. REMOVE & STOCKPILE RIPRAP, BROKEN CONCRETE & GROUTED BOULDER CHUNKS 12" IN DIAMETER OR LESS FOR USE IN APPROVED FILL ZONES.

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NOT FOR CONSTRUCTION

				DESIGN BY:
				RTS
				DRAWN BY:
				MDH
				DATE:
				01-11-2013
REV	DATE	DESCRIPTION		APP

MATTHEW D. HICKOX, EI	
PROJECT ENGINEER	
RICHARD T. SMITH, PE	35409
PROJECT MANAGER	PE NO.

AVRES ASSOCIATES

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Westminster, Colorado 80234
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303.938.8211 FAX

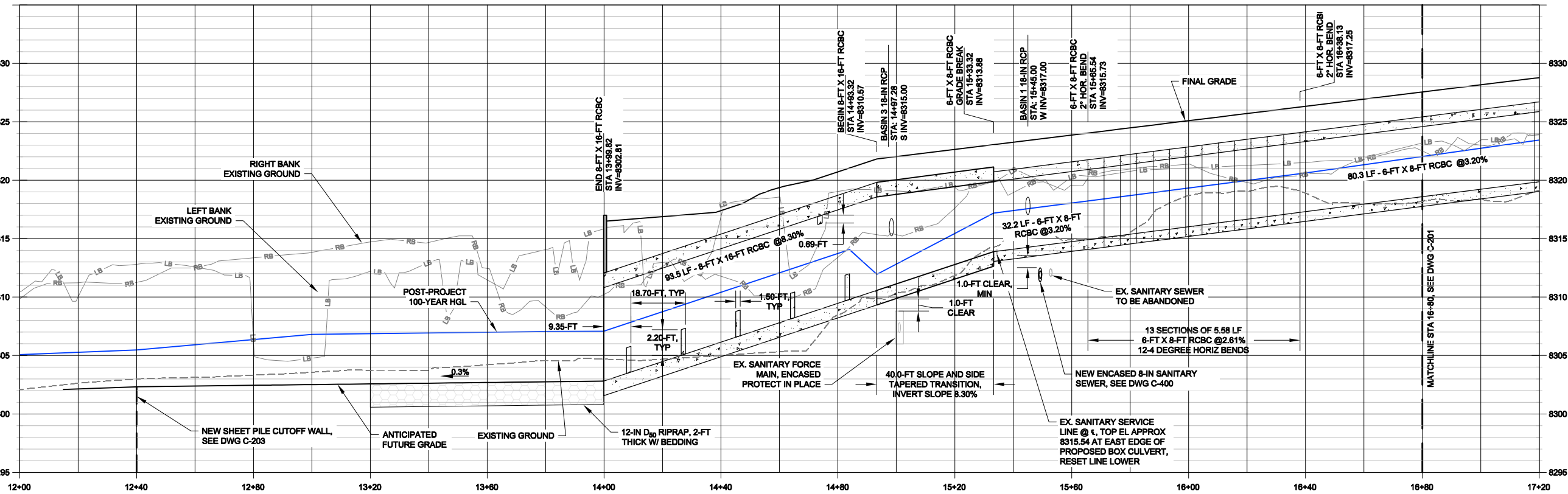
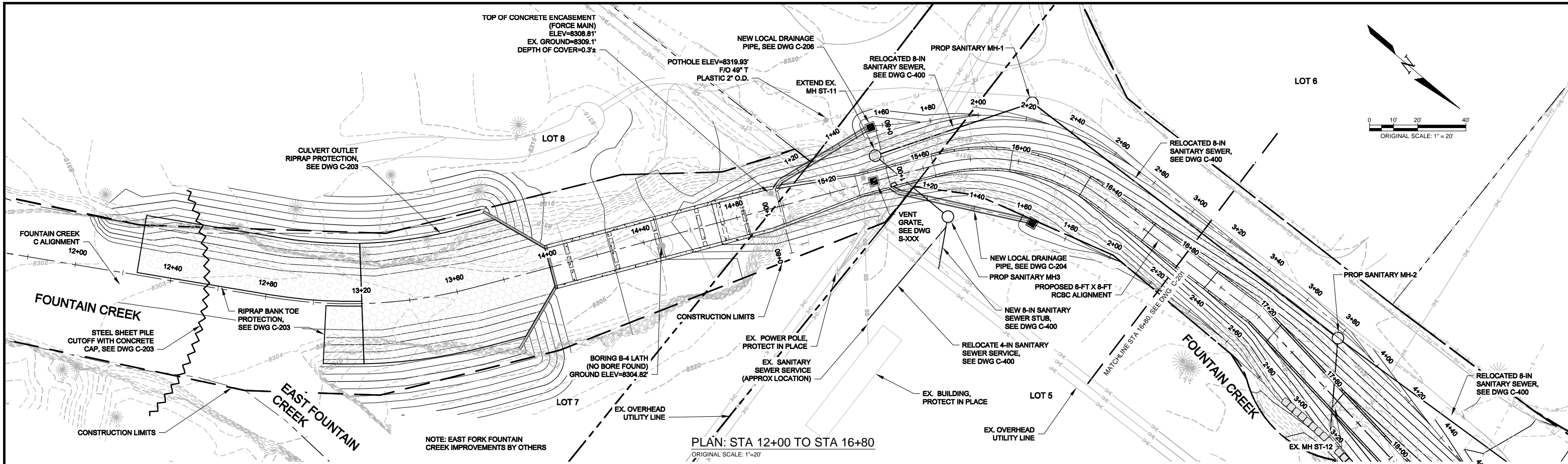
ELEVATE!
WOODLAND PARK
TOWN & COUNTRY, THE BUILDERS

220 W. SOUTH AVENUE
PO BOX 9007
WOODLAND PARK, CO 80866

FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT

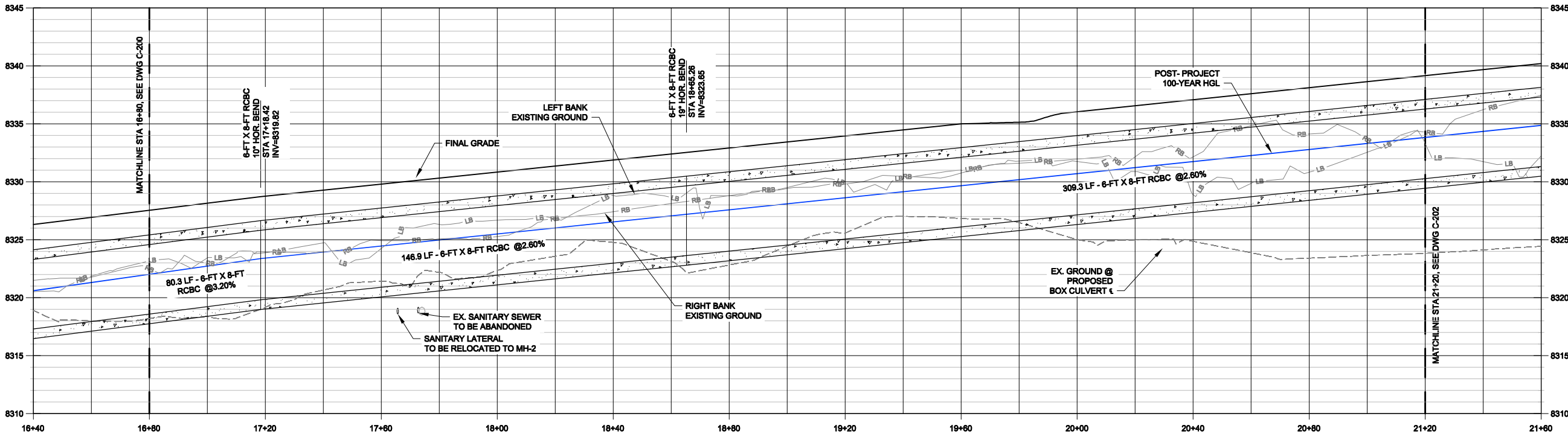
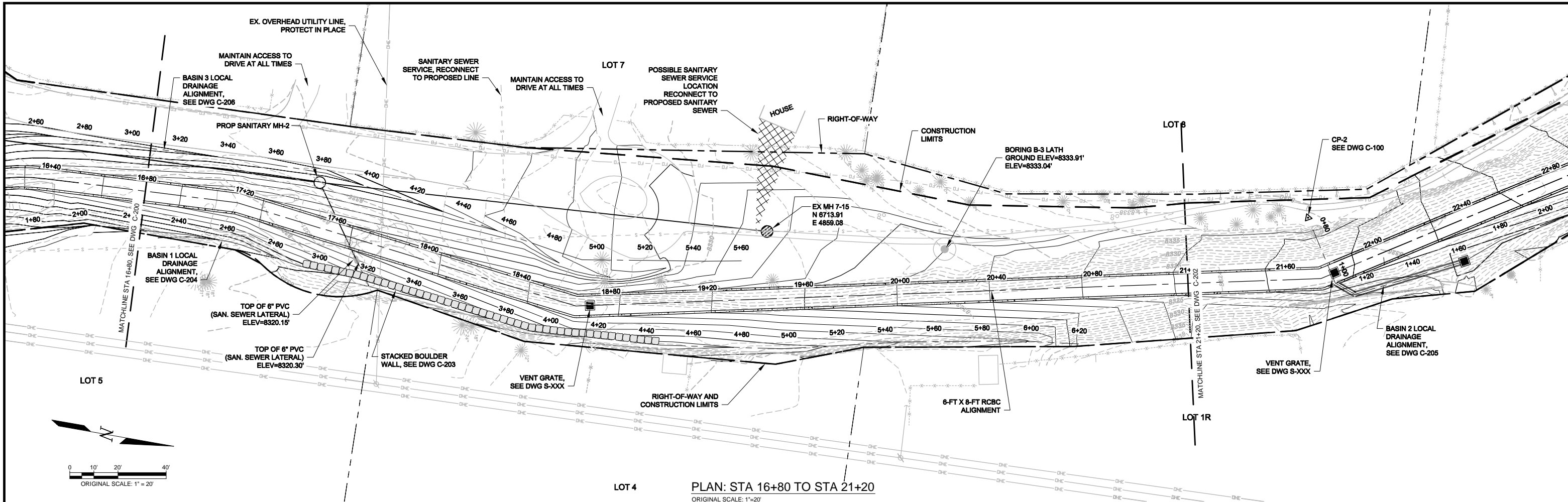
DEMOLITION PLAN

DRAWING NO.	C-101	SHEET	4
PROJECT NO.	35-0200.00	OF 31	SHEETS
FILE NO.	DEMO PLAN.dwg		



PROFILE: STA 12+00 TO STA 16+80
ORIGINAL SCALE: 1"=20' (HORIZ.)
1"=5' (VERT.)

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR CONSTRUCTION	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE
"AS-BUILT" CERTIFIED BY:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR "AS-BUILT" RECORD	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE



PROFILE: STA 16+80 TO STA 21+20
ORIGINAL SCALE: 1"=20' (HORIZ.)
1"=5' (VERT.)

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR CONSTRUCTION	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE
AS-BUILT CERTIFIED BY:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR "AS-BUILT" RECORD	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE

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REV	DATE	DESCRIPTION	APP

DESIGN BY:	MDH
DRAWN BY:	DAS
DATE:	01-11-2013

MATTHEW D. HICKOX, EI	PROJECT ENGINEER
RICHARD T. SMITH, PE	PROJECT MANAGER
35409	PE NO.

AVRES ASSOCIATES

12050 N. Pecos Street, Suite 150
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303.938.8211 FAX

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WOODLAND PARK, CO 80866

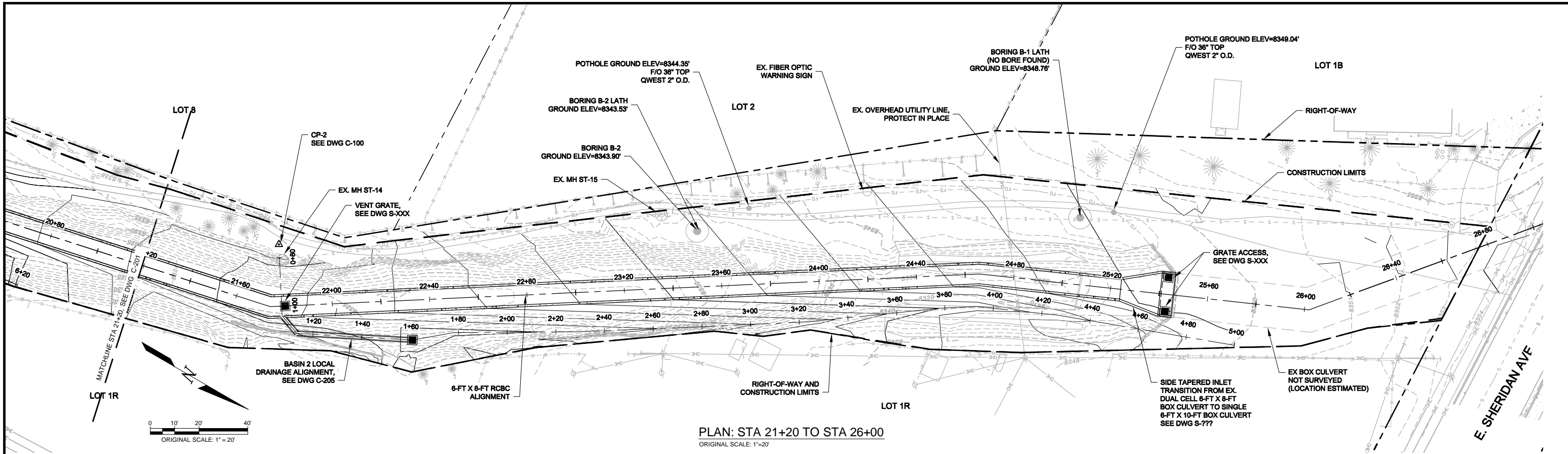
FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT

PLAN AND PROFILE
STA 16+80 TO STA 21+20

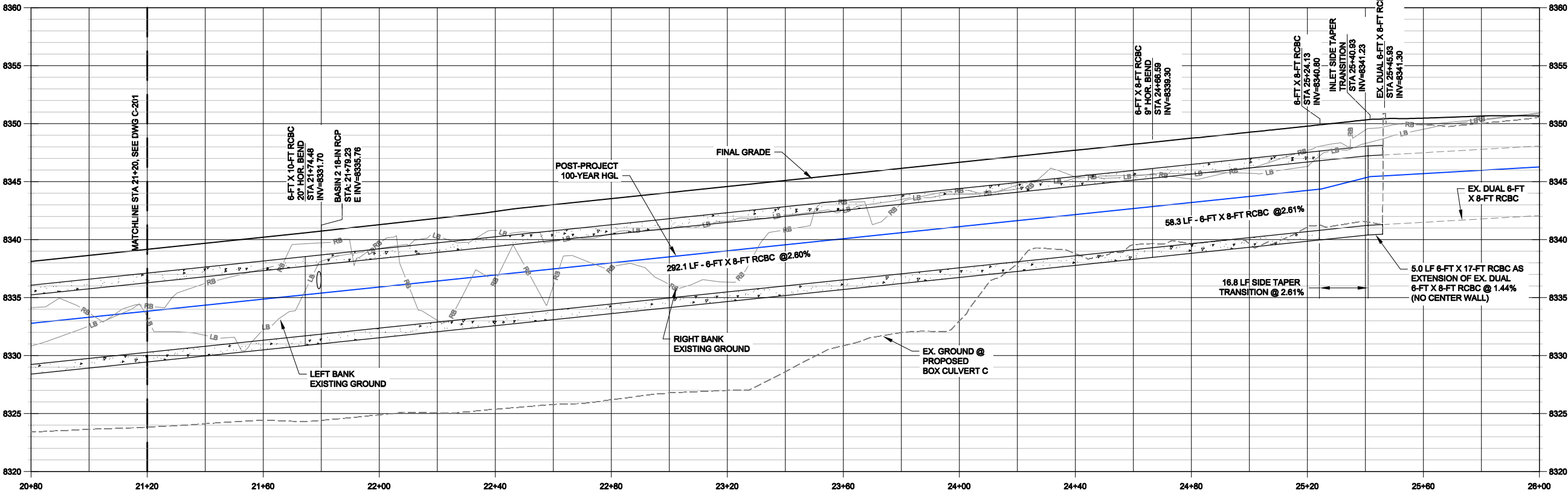
DRAWING NO.	C-201
PROJECT NO.	35-0200.00
FILE NO.	PLAN AND PROFILE.DWG

6
OF 31 SHEETS

3/18/2013 8:03 AM C:\USERS\HICKOX\M\Desktop\PROJECTS\2013\FOUNTAIN CREEK STABILIZATION & EROSION CONTROL\DRAWINGS\PLAN AND PROFILE.DWG



PLAN: STA 21+20 TO STA 26+00
ORIGINAL SCALE: 1"=20'



PROFILE: STA 21+20 TO STA 26+00
ORIGINAL SCALE: 1"=20' (HORIZ.)
1"=5' (VERT.)

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR CONSTRUCTION	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE
AS-BUILT CERTIFIED BY:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR "AS-BUILT" RECORD	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE

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REV	DATE	DESCRIPTION	APP

DESIGN BY: MDH	MATTHEW D. HICKOX, EI
DRAWN BY: DAS	RICHARD T. SMITH, PE
DATE: 01-11-2013	35409 PE NO.

AVRES ASSOCIATES

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303.938.8211 FAX

WOODLAND PARK
220 W. SOUTH AVENUE
PO BOX 9007
WOODLAND PARK, CO 80866

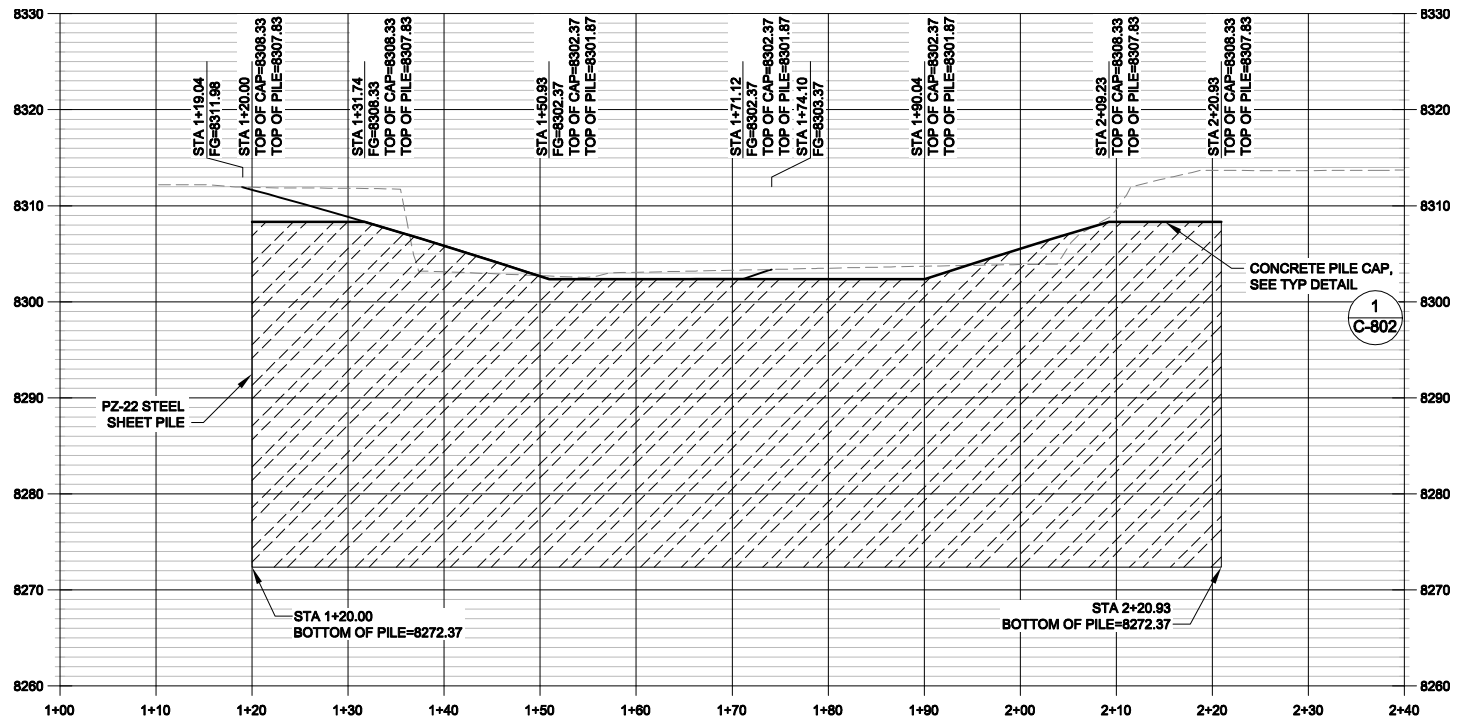
FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT

PLAN AND PROFILE
STA 21+20 TO STA 26+00

DRAWING NO. C-202
PROJECT NO. 35-0200.00
FILE NO. PLAN AND PROFILE.DWG

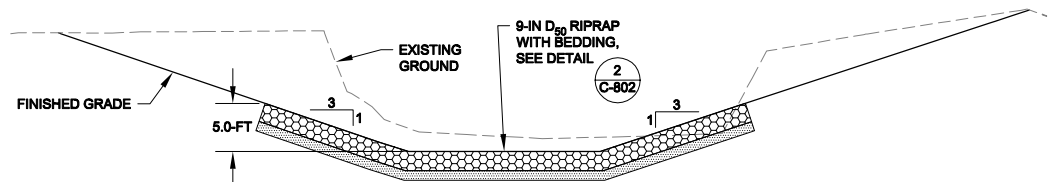
SHEET 7 OF 31 SHEETS

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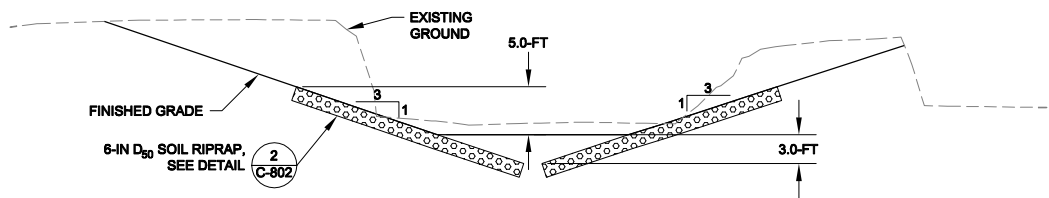


NOTE:
BEDROCK ELEVATION UNKNOWN AT THIS LOCATION.
DRIVE SHEET PILE TO LIMITS SHOWN OR REFUSAL,
WHICHEVER COMES FIRST.

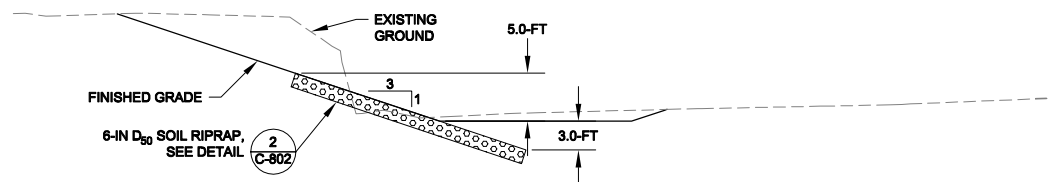
PROFILE: STA 12+00 TO STA 14+20
ORIGINAL SCALE: 1"=10' (HORIZ.)
1"=10' (VERT.)



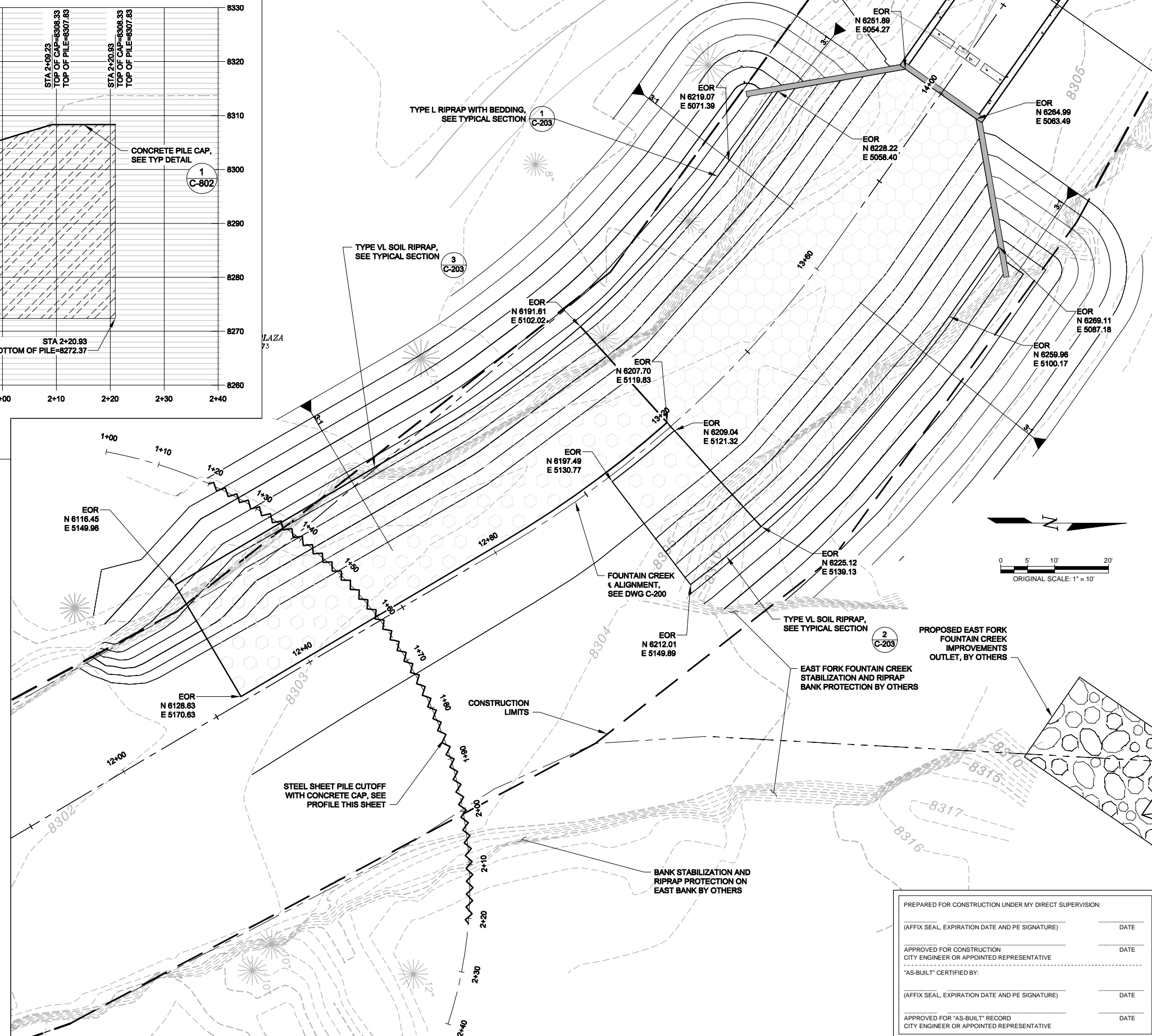
1 TYPICAL SECTION FROM STA 13+20.11 TO STA 13+99.82
C-203 N.T.S.



1 TYPICAL SECTION FROM STA 13+05.28 TO STA 13+20.11
C-203 N.T.S.



1 TYPICAL SECTION FROM STA 12+25.78 TO STA 13+05.28
C-203 N.T.S.



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(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR CONSTRUCTION	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE
AS-BUILT CERTIFIED BY:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR *AS-BUILT* RECORD	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE

90% SUBMITTAL
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REV	DATE	DESCRIPTION	APP

DESIGN BY: RTS	PROJECT ENGINEER
DRAWN BY: MDH	
DATE: 01-11-2013	

MATTHEW D. HICKOX, EI	
PROJECT ENGINEER	
RICHARD T. SMITH, PE	35409
PROJECT MANAGER	PE NO.

AYRES ASSOCIATES

12050 N. Pecos Street, Suite 150
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303.938.8211 FAX

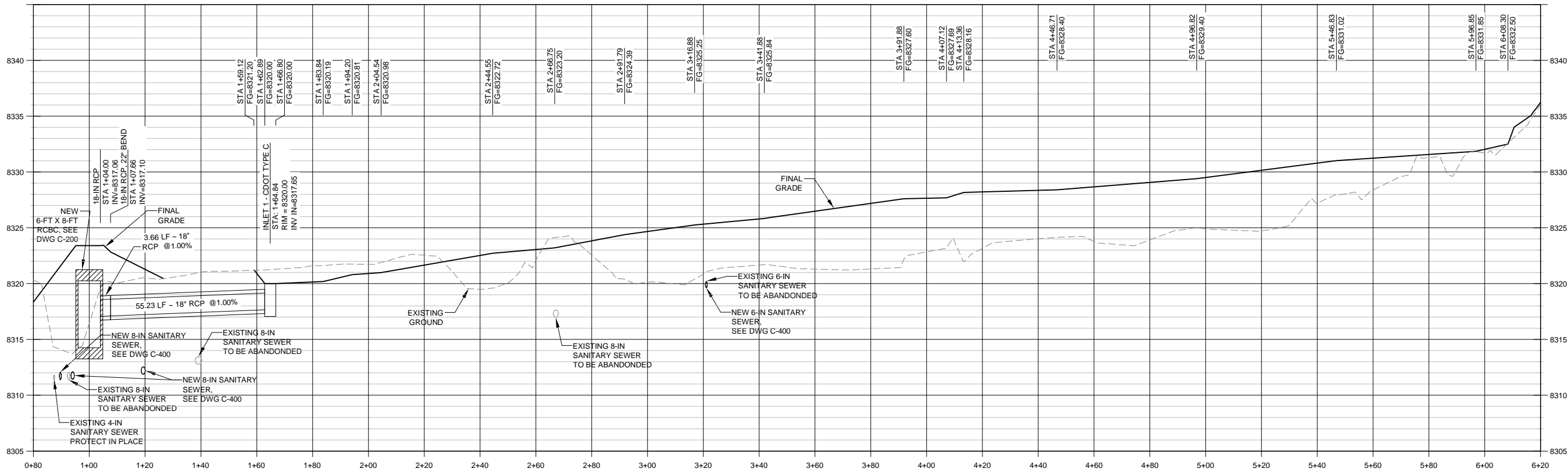
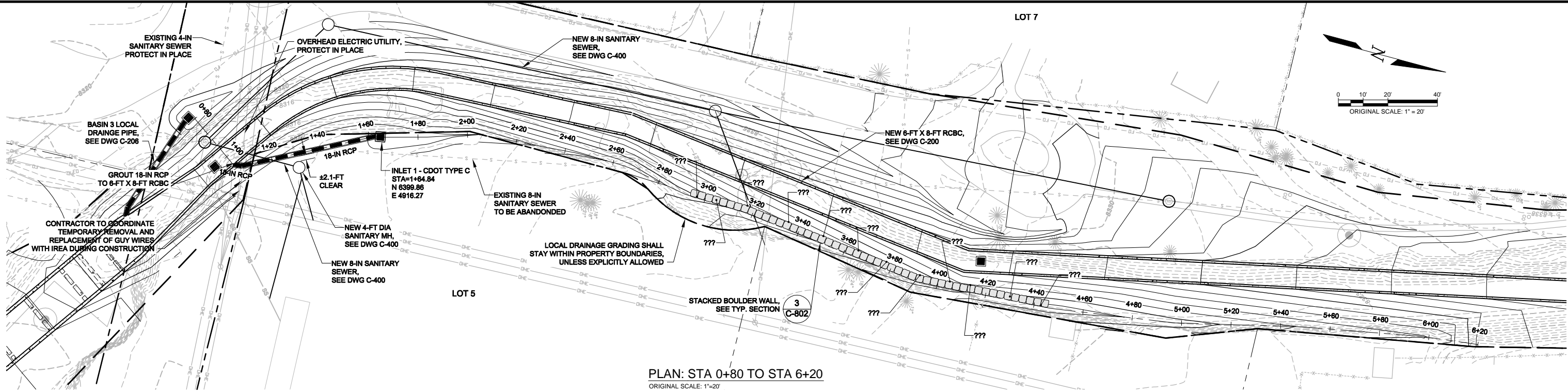
WOODLAND PARK

220 W. SOUTH AVENUE
PO BOX 9007
WOODLAND PARK, CO 80866

FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT

RIP RAP OUTLET AND SHEET PILE
STA 12+00 TO STA 14+20

DRAWING NO. C-203	SHEET 8
PROJECT NO. 35-0200.00	OF 31 SHEETS
FILE NO. RIP RAP.dwg	



PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:

(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE) _____ DATE _____

APPROVED FOR CONSTRUCTION
CITY ENGINEER OR APPOINTED REPRESENTATIVE _____ DATE _____

"AS-BUILT" CERTIFIED BY: _____

(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE) _____ DATE _____

APPROVED FOR "AS-BUILT" RECORD
CITY ENGINEER OR APPOINTED REPRESENTATIVE _____ DATE _____

90% SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	APP

DESIGN BY: MDH / RTS	DRAWN BY: MDH	DATE: 01-11-2013
PROJECT ENGINEER	PROJECT MANAGER	PE NO.

MATTHEW D. HICKOX, EI
PROJECT ENGINEER

RICHARD T. SMITH, PE
PROJECT MANAGER

35409
PE NO.

AYRES ASSOCIATES

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FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT

BASIN 1 LOCAL DRAINAGE PLAN AND PROFILE

STA 0+80 TO STA 6+20

DRAWING NO.
C-204

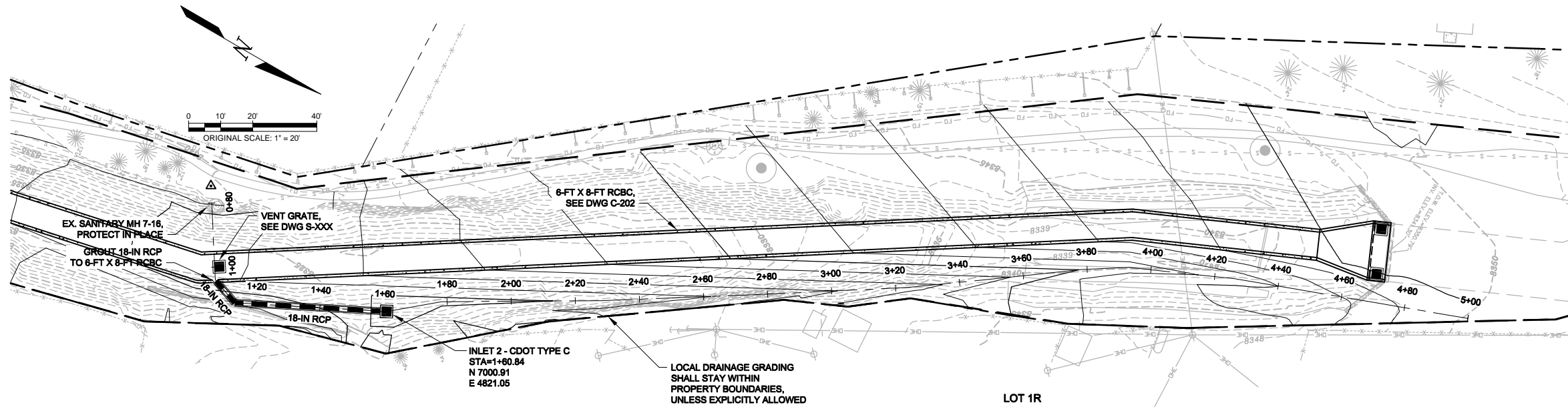
PROJECT NO.
35-0200.00

FILE NO.
LOCAL DRAINAGE PLAN AND PROFILE DWG

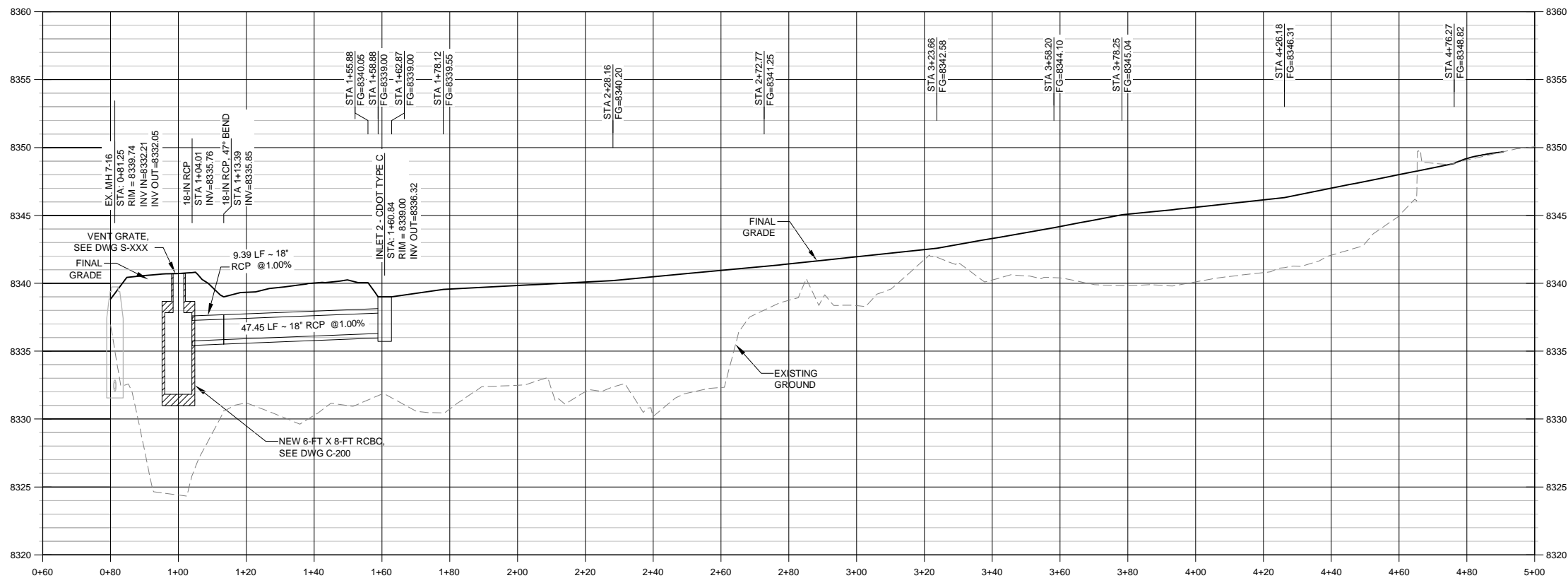
SHEET
9

OF 31 SHEETS

3/18/2015 9:06 AM C:\USERS\HICKOX\MDE\SKETCH\WORK\DRIVE_P353200.00 FOUNTAIN CREEK CHANNEL IMPROVEMENT\DESIGN\DWG\FOUNTAIN CREEK PRODUCTION DRAWING\LOCAL DRAINAGE PLAN AND PROFILE.DWG



PLAN: STA 0+80 TO STA 5+00
ORIGINAL SCALE: 1"=20'



PROFILE: STA 0+80 TO STA 5+00
ORIGINAL SCALE: 1"=20' (HORIZ.)
1"=5' (VERT.)

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR CONSTRUCTION	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE
"AS-BUILT" CERTIFIED BY:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR "AS-BUILT" RECORD	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE

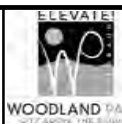
90% SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	APP

DESIGN BY: MDH / RTS	MATTHEW D. HICKOX, EI
DRAWN BY: MDH	PROJECT ENGINEER
DATE: 01-11-2013	RICHARD T. SMITH, PE
APP	35409
	PE NO.



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303.938.8211 FAX

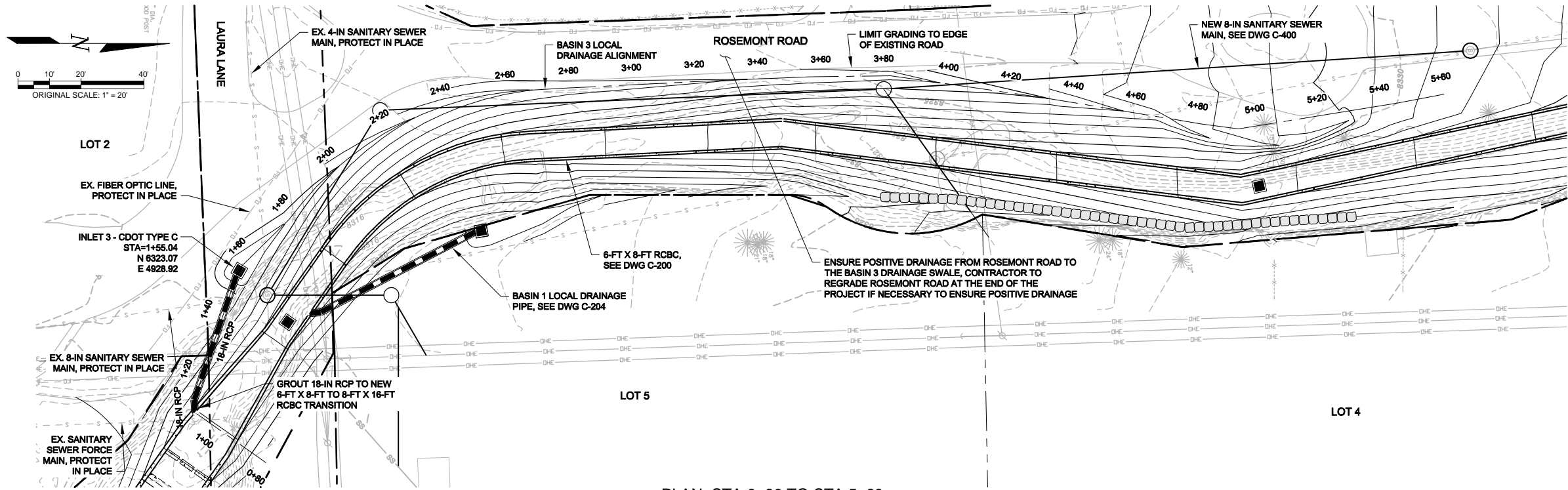


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WOODLAND PARK, CO 80866

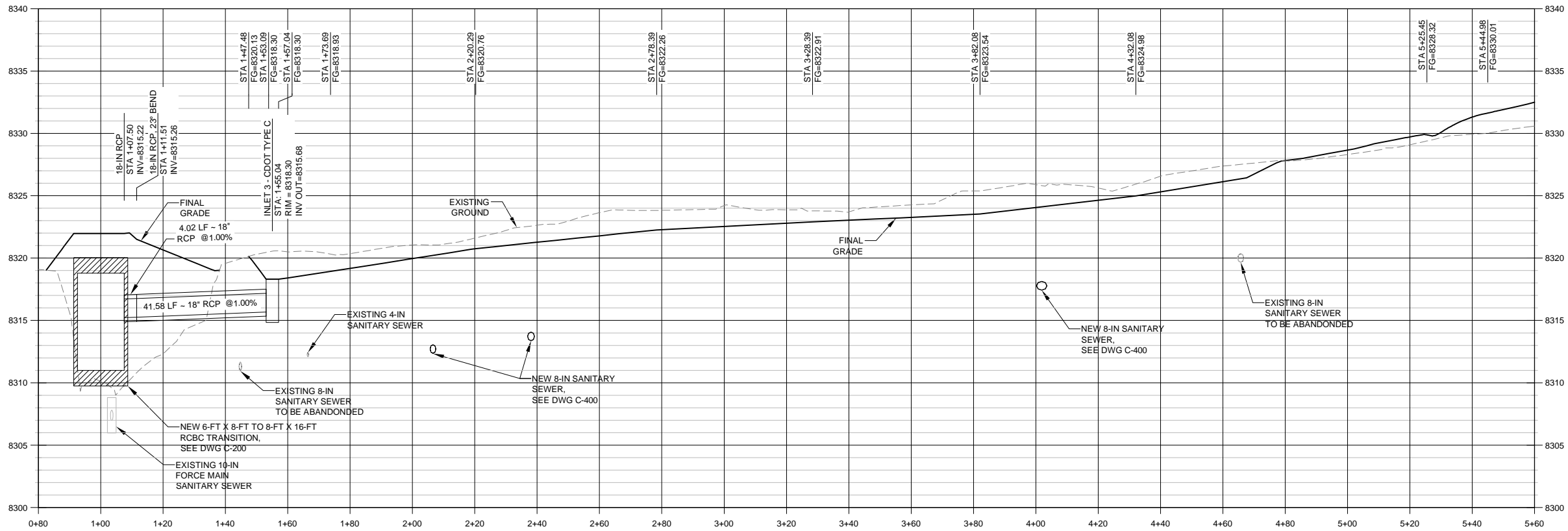
FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT
BASIN 2 LOCAL DRAINAGE PLAN AND PROFILE
STA 0+80 TO STA 5+00

DRAWING NO. C-205	SHEET 10
PROJECT NO. 35-0200.00	OF 31 SHEETS
FILE NO. LOCAL DRAINAGE PLAN AND PROFILE.DWG	

3/18/2015 9:06 AM C:\USERS\HICKOX\MDE\SKETCH\WORK\DRIVE_P353200.00 FOUNTAIN CREEK CHANNEL IMPROVEMENT\DESIGN\DWG\FOUNTAIN CREEK PRODUCTION DRAWING\LOCAL DRAINAGE PLAN AND PROFILE.DWG



PLAN: STA 0+80 TO STA 5+60
ORIGINAL SCALE: 1"=20'



PROFILE: STA 0+80 TO STA 5+60
ORIGINAL SCALE: 1"=20' (HORIZ.),
1"=5' (VERT.)

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR CONSTRUCTION	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE
"AS-BUILT" CERTIFIED BY:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR "AS-BUILT" RECORD	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE

90% SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	APP

DESIGN BY: MDH / RTS	MATTHEW D. HICKOX, EI
DRAWN BY: MDH	
DATE: 01-11-2013	
PROJECT MANAGER: RICHARD T. SMITH, PE	35409 PE NO.

AYRES ASSOCIATES

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303.938.8874 PHONE
303.938.8211 FAX

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220 W. SOUTH AVENUE
PO BOX 9007
WOODLAND PARK, CO 80866

FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT

BASIN 3 LOCAL DRAINAGE PLAN AND PROFILE

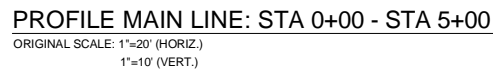
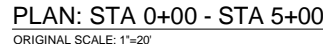
STA 0+80 TO STA 5+60

DRAWING NO:
C-206

PROJECT NO:
35-0200.00

FILE NO:
LOCAL DRAINAGE PLAN AND PROFILE.DWG

SHEET:
11
OF 31 SHEETS



WALL THICKNESS FOR STEEL CASING PIPE W/ 35,000 PS
MIN YIELD STRENGTH. FOR MATERIAL OF LOWER YIELD
STRENGTH, INCREASE THICKNESS AN ADDITIONAL $\frac{1}{16}$ ".

STEEL CASING PIPE FOR E72 LOADING	
MIN WALL THICKNESS (INCHES) FOR PIPE NOT CATHODICALLY PROTECTED	CASING PIPE INNER DIAMETER (INCHES)
0.250	UNDER 14
0.282	14 AND 16

DESIGN BY:	RTS
DRAWN BY:	MDH
DATE:	01-11-2013

MATTHEW D. HICKOX, EIT
PROJECT ENGINEER

RICHARD T. SMITH, PE
PROJECT MANAGER

AVRES
ASSOCIATES

12050 N. Pecos Street, Suite 150
Westminster, Colorado 80234
303.938.8874 PHONE
303.938.8211 FAX



220 W. SOUTH AVENUE
PO BOX 9007
WOODLAND PARK, CO 80866

FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT

PLAN AND PROFILE SANITARY SEWER RELOCATION

DRAWING NO.
C-400

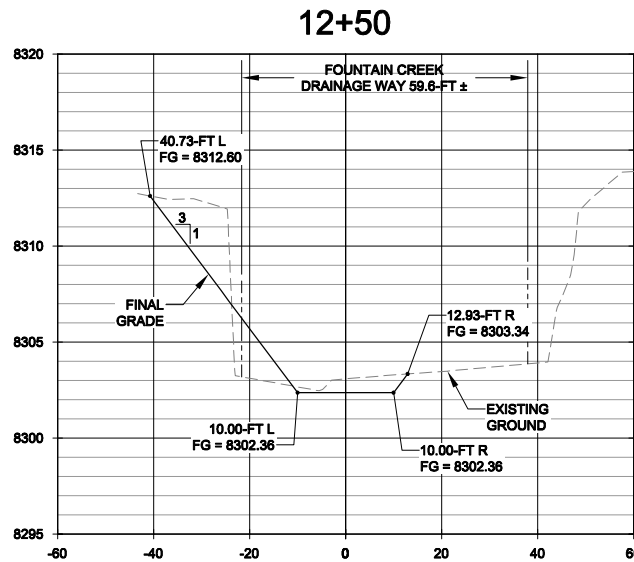
PROJECT NO.
35-0200.00

FILE NO.
SAN SEWER P&P.dwg

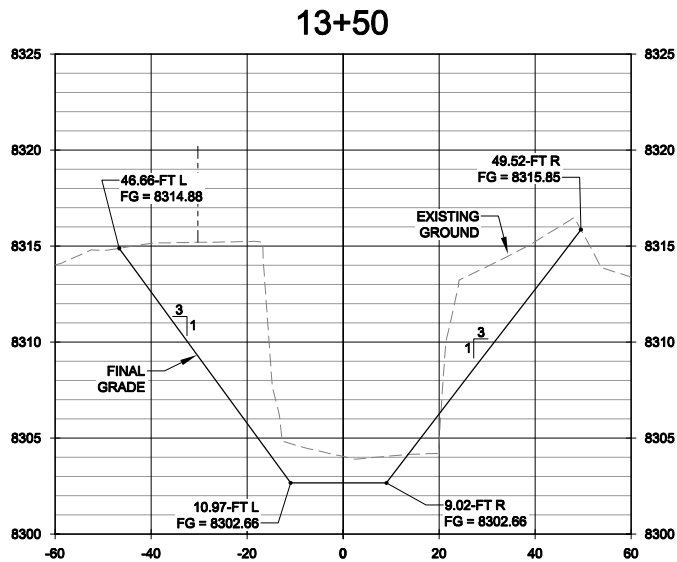
12
OF 31 SHEET

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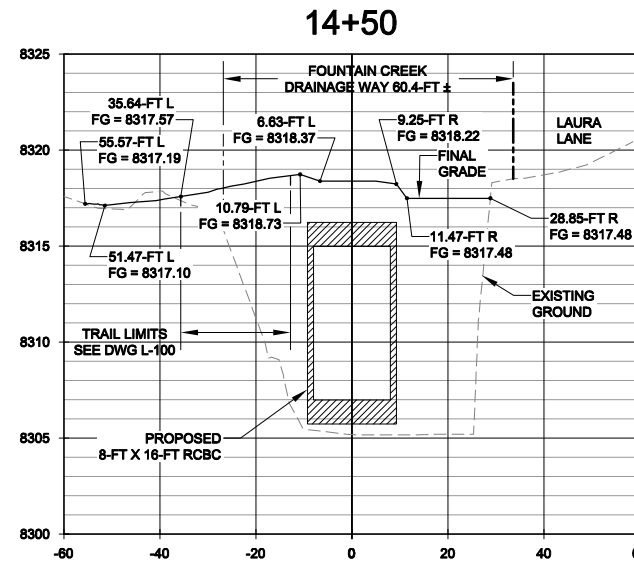
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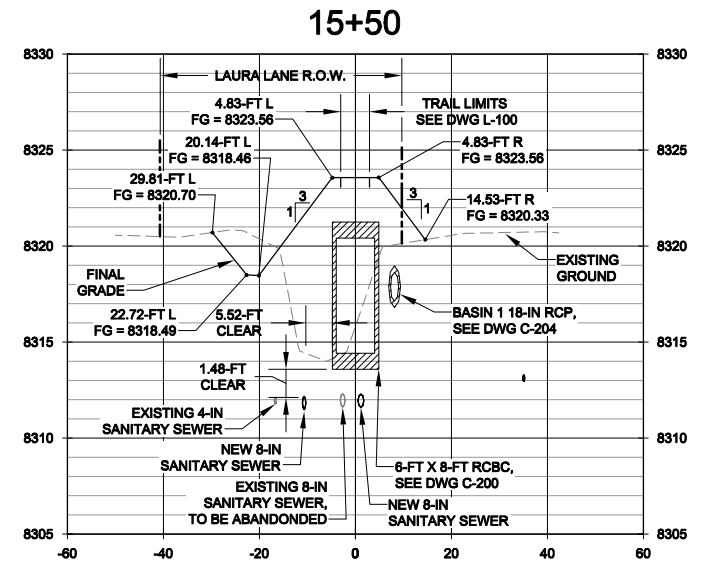
12+50 CROSS SECTION
SCALE: 1" = 20' (HORIZ.)
1" = 8' (VERT.)



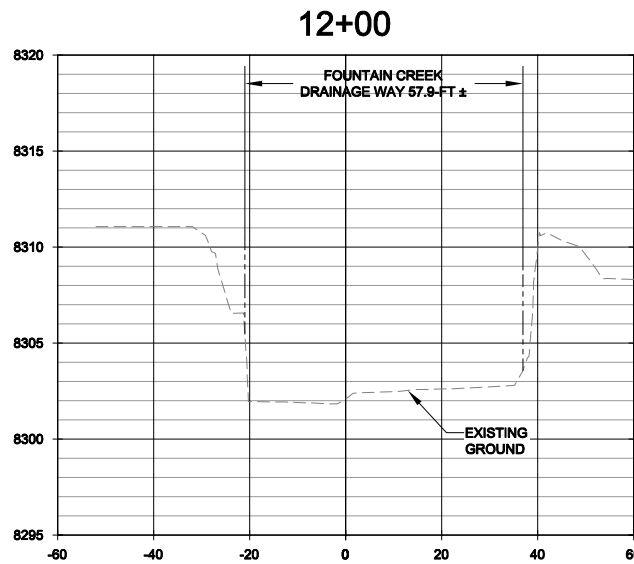
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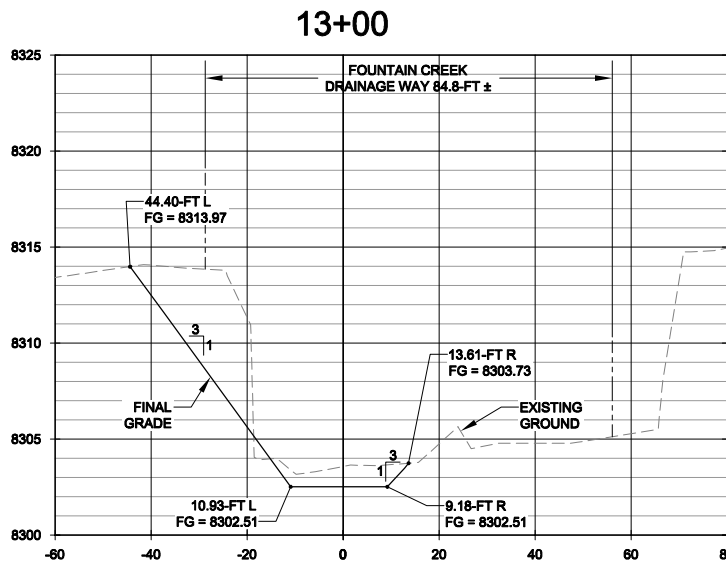
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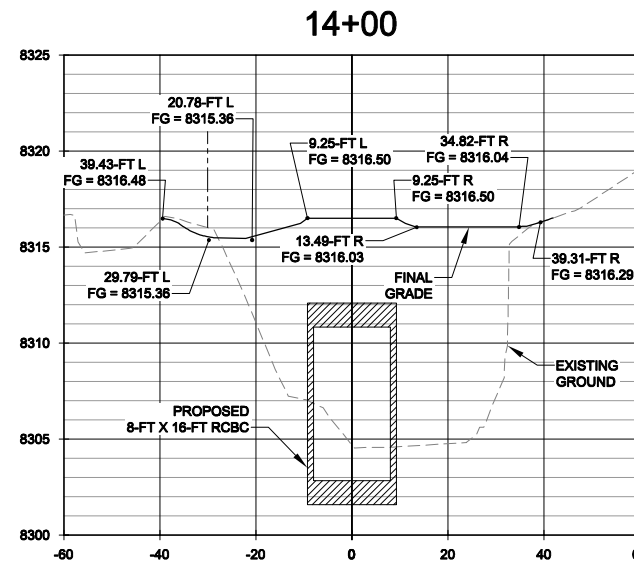
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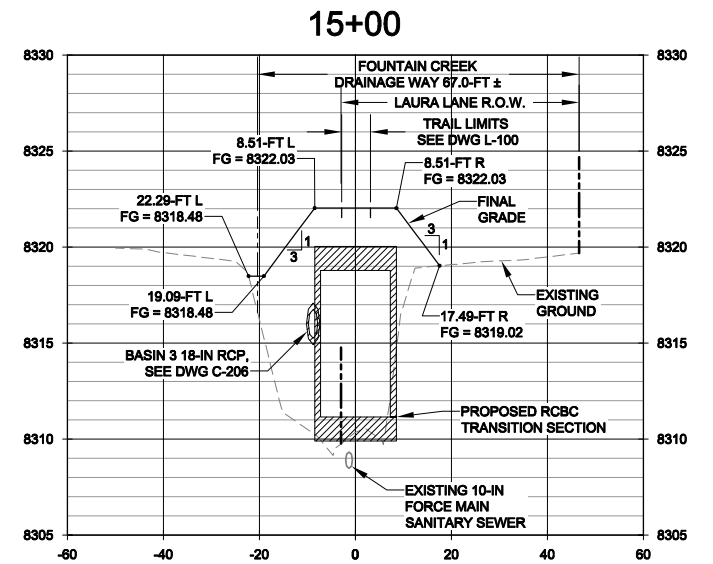
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13+00 CROSS SECTION
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1" = 8' (VERT.)



14+00 CROSS SECTION
SCALE: 1" = 20' (HORIZ.)
1" = 8' (VERT.)



15+00 CROSS SECTION
SCALE: 1" = 20' (HORIZ.)
1" = 8' (VERT.)

NOTE:
CROSS SECTIONS LOOKING UP STATION.

90% SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	APP

DESIGN BY:
RTS
DRAWN BY:
MDH
DATE:
01-11-2013

PROJECT ENGINEER
MATTHEW D. HICKOX, EI
PROJECT MANAGER
RICHARD T. SMITH, PE
35409
PE NO.

AVRES
ASSOCIATES

12050 N. Pecos Street, Suite 150
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303.938.8211 FAX

WOODLAND PARK
CITY ENGINEER

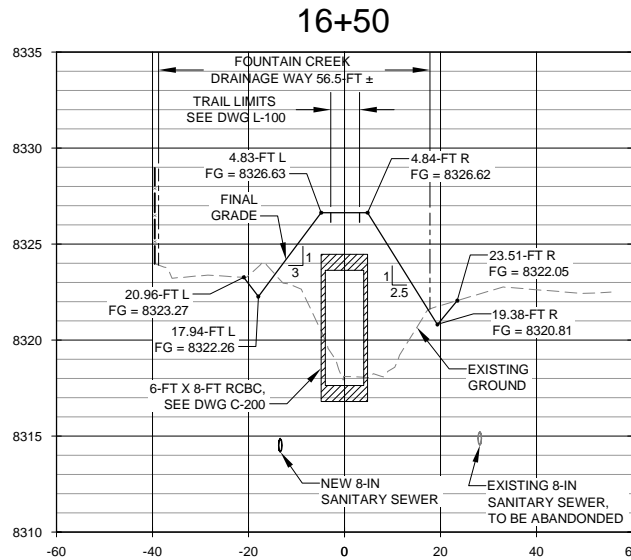
220 W. SOUTH AVENUE
PO BOX 9007
WOODLAND PARK, CO 80866

FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT
CROSS SECTIONS
STA 12+00 TO 15+50

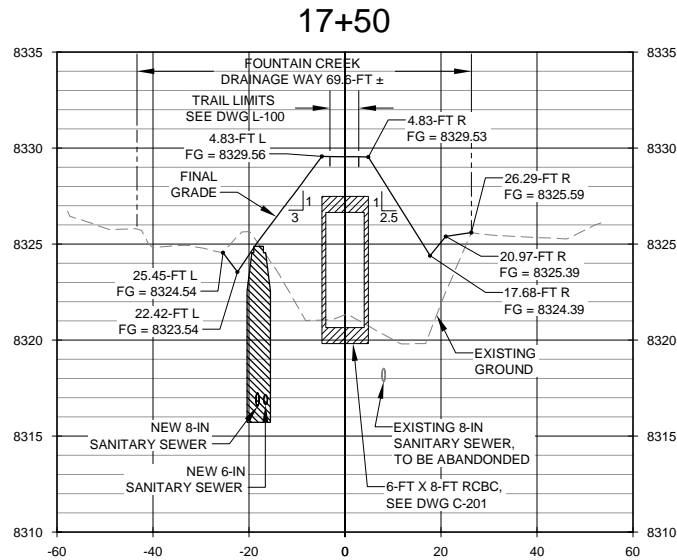
DRAWING NO.
C-600
PROJECT NO.
35-0200.00
FILE NO.
CROSS SECTIONS.dwg
SHEET
13
OF 31 SHEETS

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE) _____ DATE _____
APPROVED FOR CONSTRUCTION
CITY ENGINEER OR APPOINTED REPRESENTATIVE _____ DATE _____
"AS-BUILT" CERTIFIED BY:
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE) _____ DATE _____
APPROVED FOR "AS-BUILT" RECORD
CITY ENGINEER OR APPOINTED REPRESENTATIVE _____ DATE _____

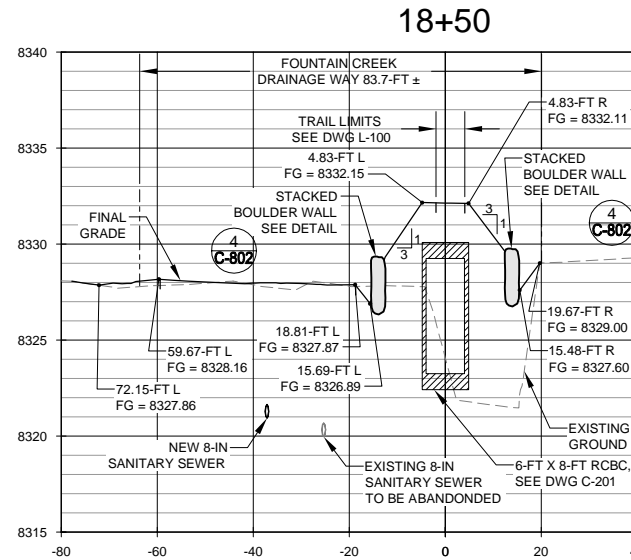
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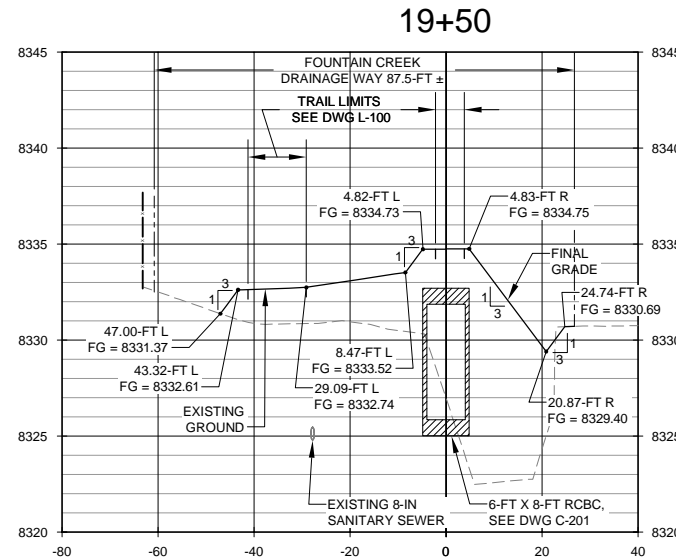
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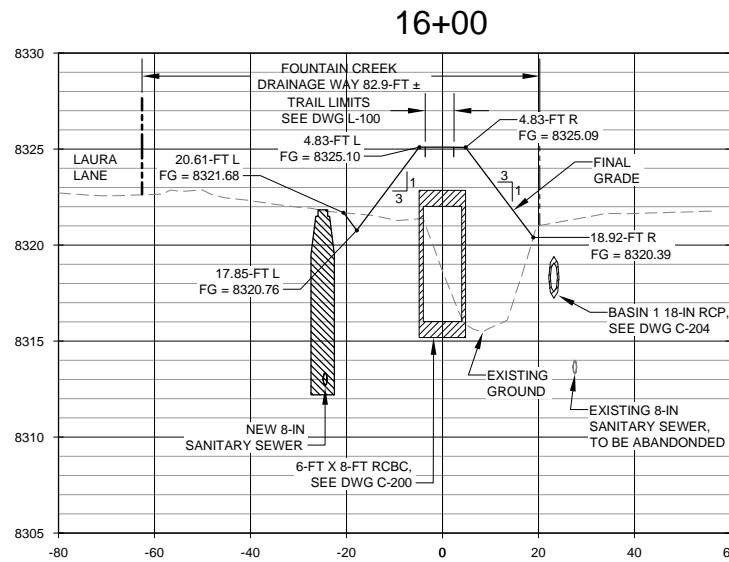
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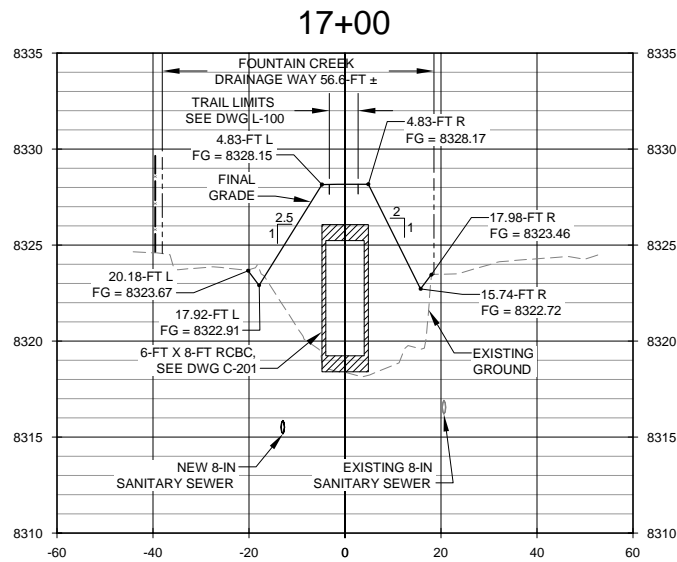
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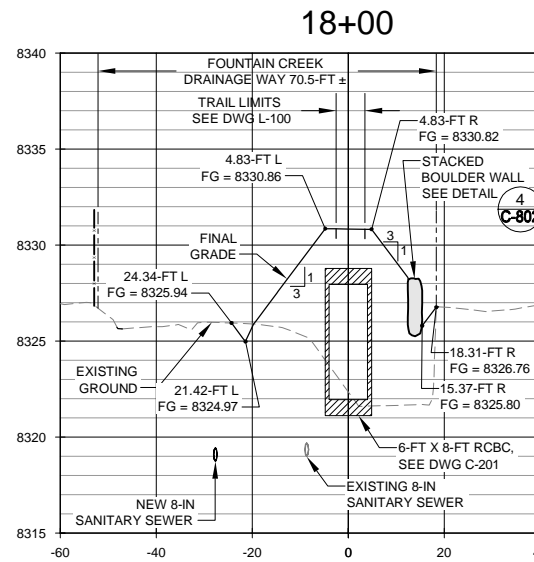
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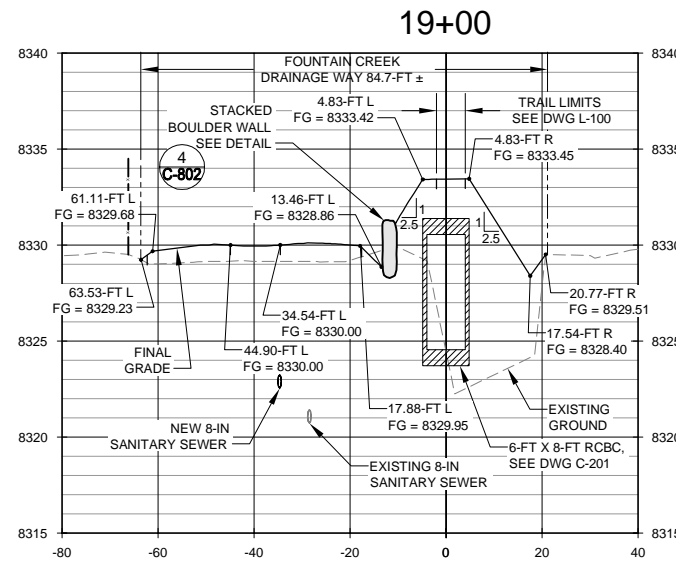
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17+00 CROSS SECTION
SCALE: 1" = 20' (HORIZ.)
1" = 8' (VERT.)



18+00 CROSS SECTION
SCALE: 1" = 20' (HORIZ.)
1" = 8' (VERT.)



19+00 CROSS SECTION
SCALE: 1" = 20' (HORIZ.)
1" = 8' (VERT.)

NOTE:
CROSS SECTIONS LOOKING UP STATION.

90% SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	APP

DESIGN BY: RTS	PROJECT ENGINEER
DRAWN BY: MDH	
DATE: 01-11-2013	

MATTHEW D. HICKOX, EI	
PROJECT ENGINEER	
RICHARD T. SMITH, PE	35409
PROJECT MANAGER	PE NO.

AVRES ASSOCIATES

12050 N. Pecos Street, Suite 150
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303.938.8211 FAX

WOODLAND PARK

220 W. SOUTH AVENUE
PO BOX 9007
WOODLAND PARK, CO 80866

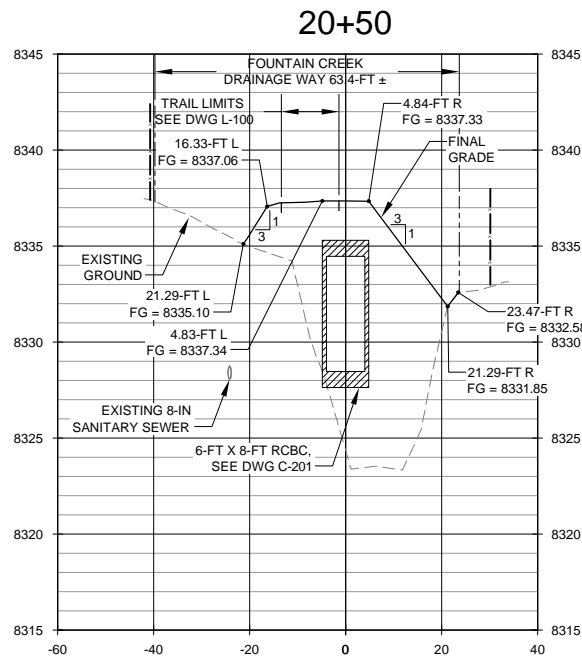
FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT

CROSS SECTIONS
STA 16+00 TO STA 19+50

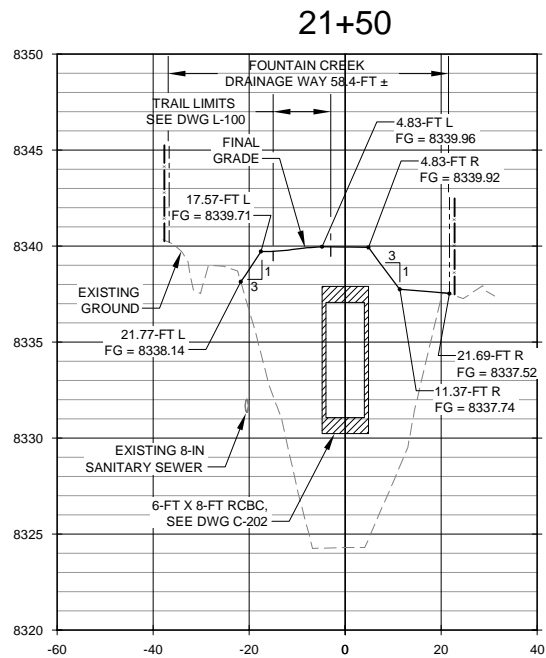
DRAWING NO. C-601	SHEET 14
PROJECT NO. 35-0200.00	OF 31 SHEETS
FILE NO. CROSS SECTIONS.dwg	

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR CONSTRUCTION	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE
"AS-BUILT" CERTIFIED BY:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR "AS-BUILT" RECORD	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE

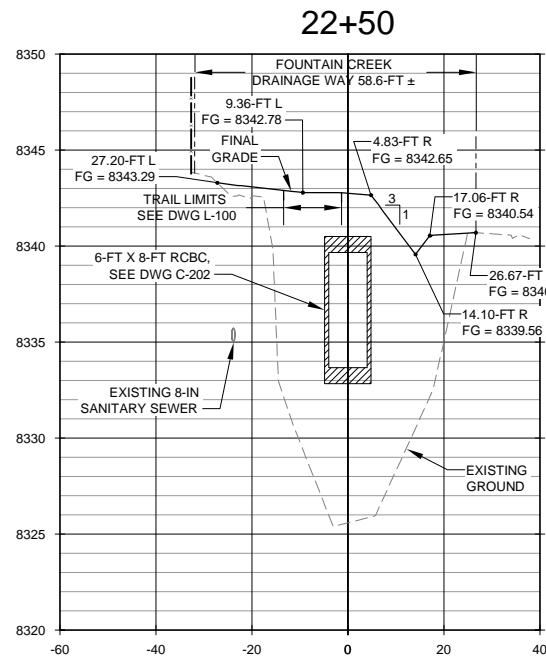
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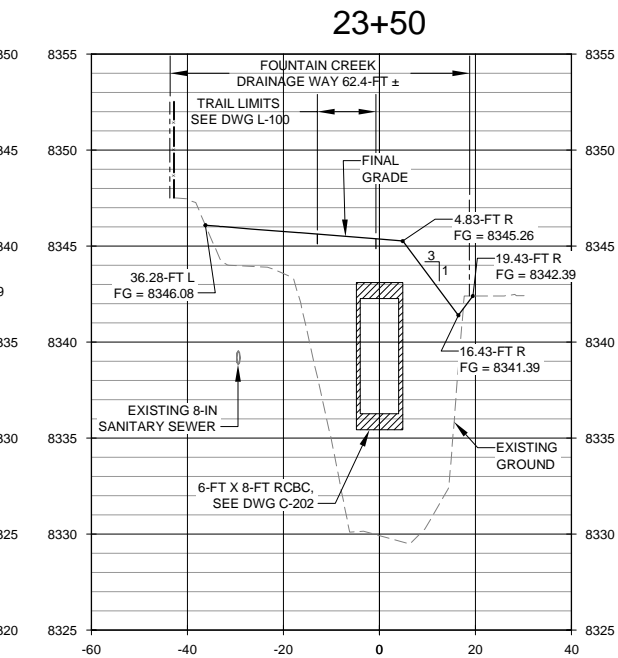
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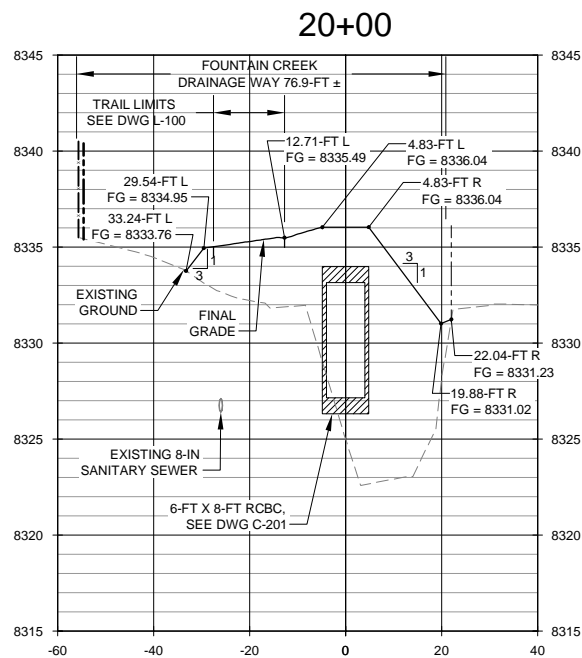
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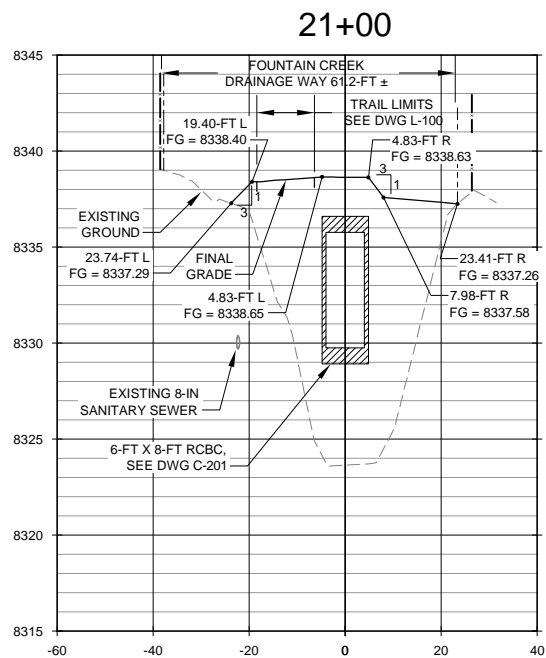
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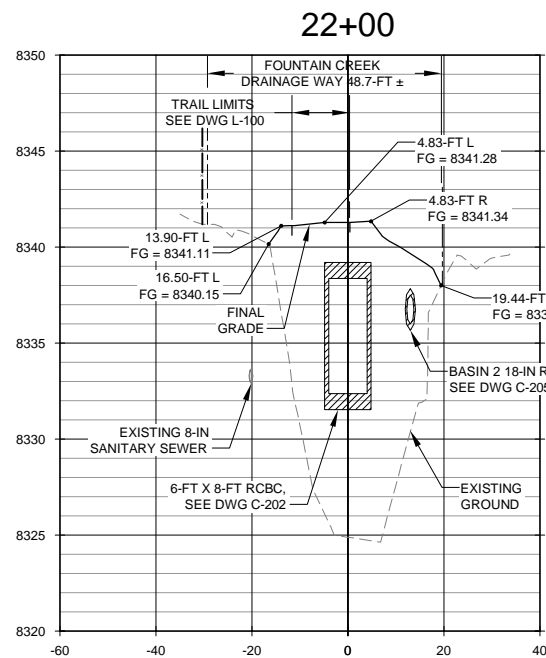
23+50 CROSS SECTION
SCALE: 1" = 20' (HORIZ)
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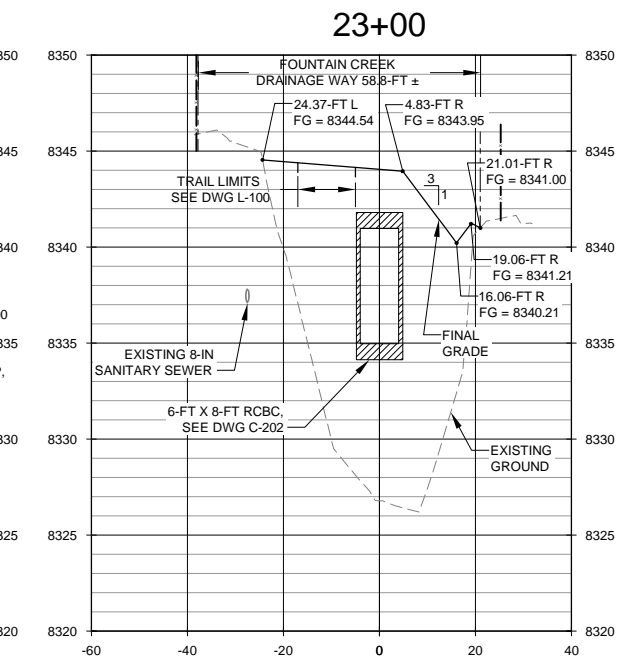
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21+00 CROSS SECTION
SCALE: 1" = 20' (HORIZ)
1" = 8' (VERT.)



22+00 CROSS SECTION
SCALE: 1" = 20' (HORIZ)
1" = 8' (VERT.)



23+00 CROSS SECTION
SCALE: 1" = 20' (HORIZ)
1" = 8' (VERT.)

NOTE:
CROSS SECTIONS LOOKING UP STATION.

90% SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	APP

DESIGN BY:
RTS
DRAWN BY:
MDH
DATE:
01-11-2013

MATTHEW D. HICKOX, EI
PROJECT ENGINEER
RICHARD T. SMITH, PE
PROJECT MANAGER
35409
PE NO.

AVRES ASSOCIATES
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303.938.8211 FAX

WOODLAND PARK
220 W. SOUTH AVENUE
PO BOX 9007
WOODLAND PARK, CO 80866

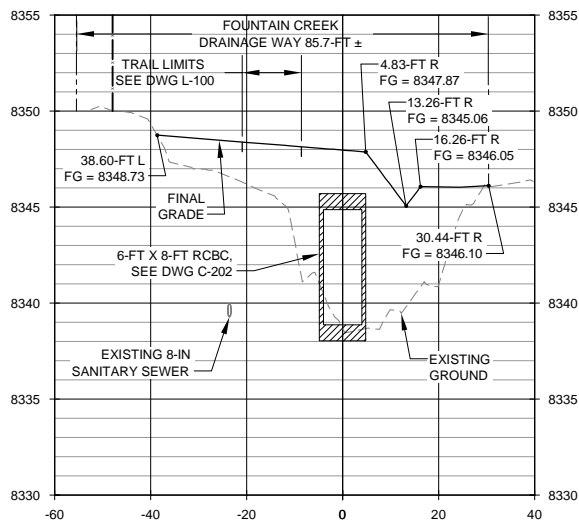
FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT
CROSS SECTIONS
STA 20+00 TO STA 23+50

DRAWING NO.
C-602
PROJECT NO.
35-0200.00
FILE NO.
CROSS SECTIONS.dwg
SHEET
15
OF 31 SHEETS

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR CONSTRUCTION	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE
"AS-BUILT" CERTIFIED BY:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR "AS-BUILT" RECORD	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE

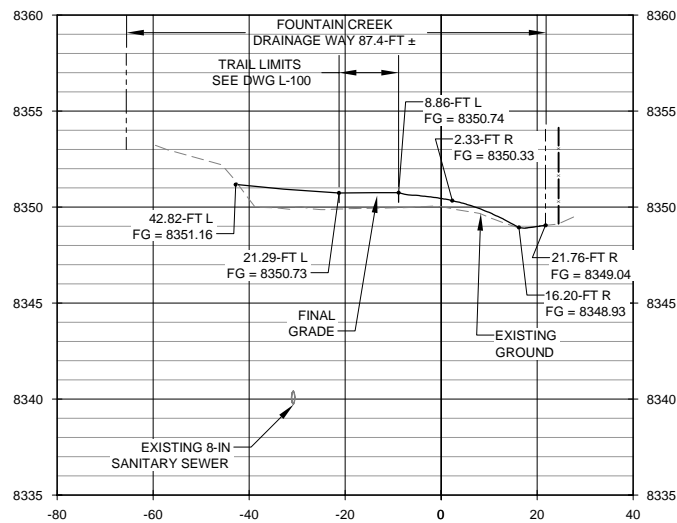
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24+50



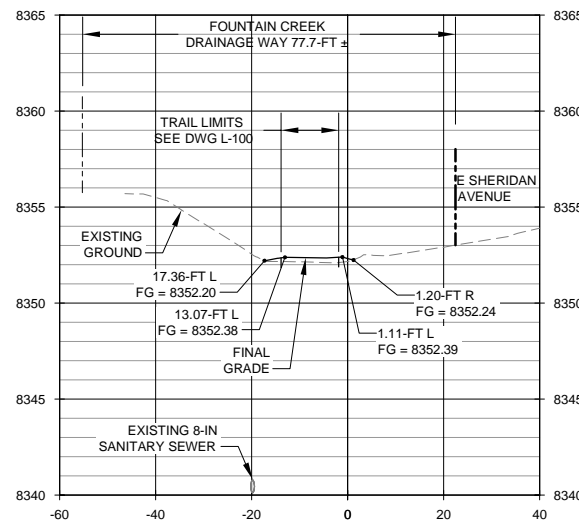
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25+50



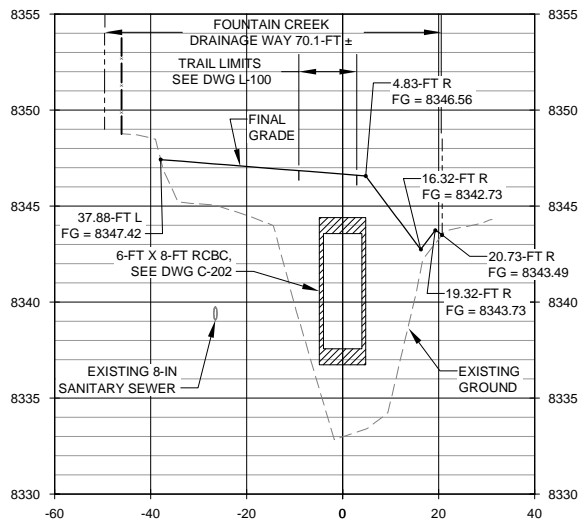
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26+50



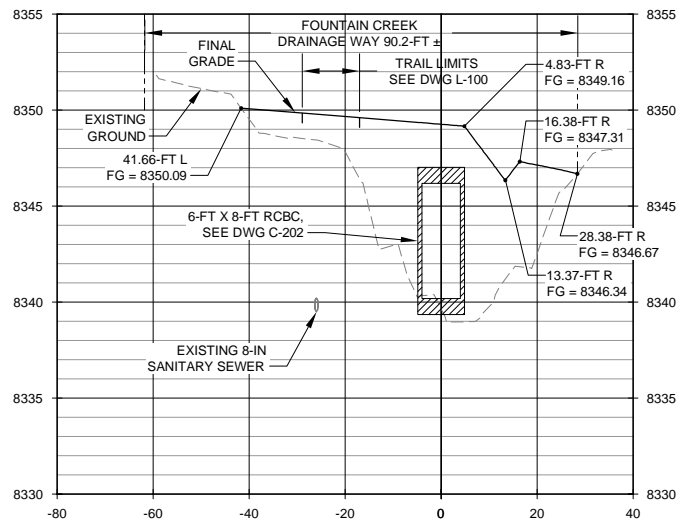
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24+00



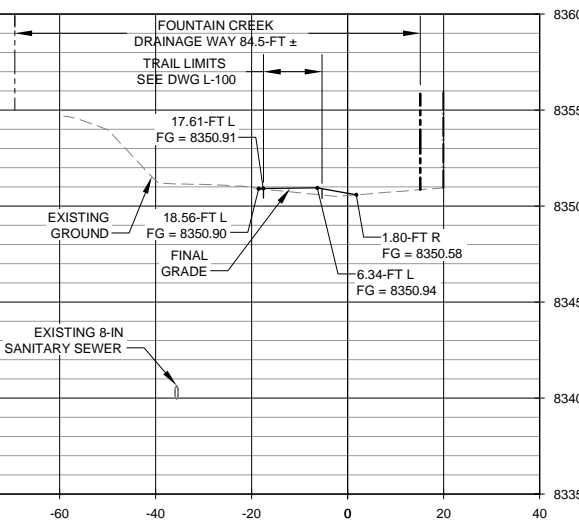
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25+00



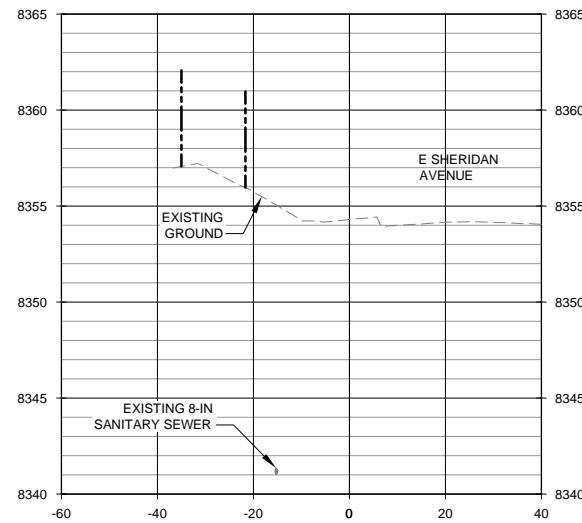
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26+00



26+00 CROSS SECTION
SCALE: 1" = 20' (HORIZ.)
1" = 5' (VERT.)

27+00



27+00 CROSS SECTION
SCALE: 1" = 20' (HORIZ.)
1" = 5' (VERT.)

NOTE:
CROSS SECTIONS LOOKING UP STATION.

90% SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	APP

DESIGN BY:
RTS
DRAWN BY:
MDH
DATE:
01-11-2013

PROJECT ENGINEER
MATTHEW D. HICKOX, EI
PROJECT MANAGER
RICHARD T. SMITH, PE
35409
PE NO.

AVRES ASSOCIATES

12050 N. Pecos Street, Suite 150
Westminster, Colorado 80234
303.938.8874 PHONE
303.938.8211 FAX

WOODLAND PARK
CITY ENGINEER

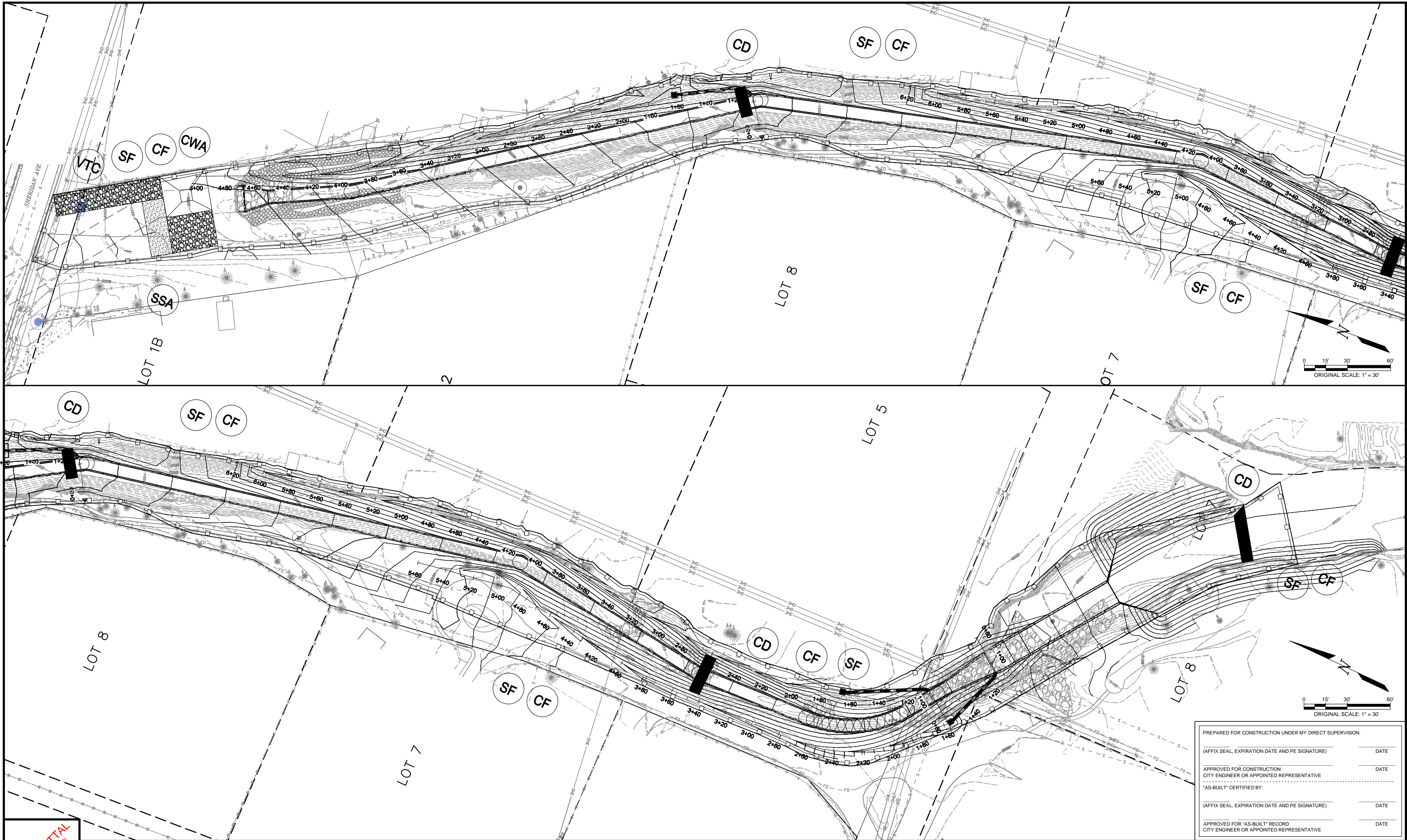
220 W. SOUTH AVENUE
PO BOX 9007
WOODLAND PARK, CO 80866

FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT
CROSS SECTIONS
STA 24+00 TO 25+50

DRAWING NO.
C-603
PROJECT NO.
35-0200.00
FILE NO.
CROSS SECTIONS.dwg

SHEET
16
OF 31 SHEETS

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE) _____ DATE _____
APPROVED FOR CONSTRUCTION
CITY ENGINEER OR APPOINTED REPRESENTATIVE _____ DATE _____
"AS-BUILT" CERTIFIED BY:
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE) _____ DATE _____
APPROVED FOR "AS-BUILT" RECORD
CITY ENGINEER OR APPOINTED REPRESENTATIVE _____ DATE _____



90% SUBMITTAL
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REV	DATE	DESCRIPTION	APP

DESIGN BY:
RTS
DRAWN BY:
MDH
DATE:
01-11-2013

MATTHEW D. HICKOX, EI
PROJECT ENGINEER
RICHARD T. SMITH, PE
PROJECT MANAGER
35409
PE NO.

AVRES ASSOCIATES

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Westminster, Colorado 80234
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303.938.8211 FAX



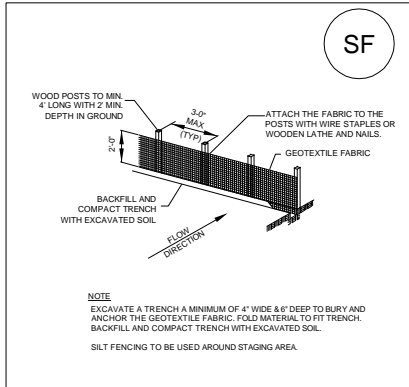
220 W. SOUTH AVENUE
PO BOX 9007
WOODLAND PARK, CO 80866

FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT
EROSION & SEDIMENT CONTROL
PLAN

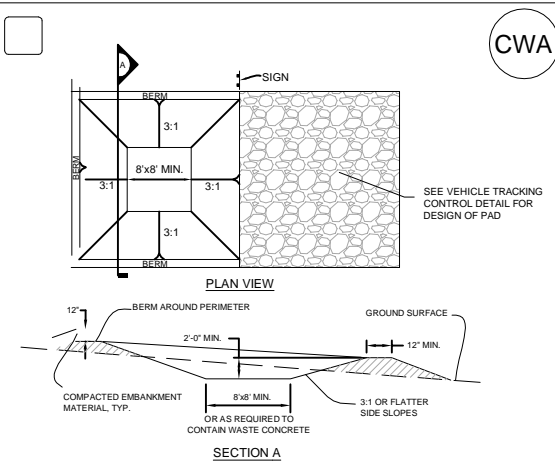
DRAWING NO.
C-700
PROJECT NO.
35-0200.00
FILE NO.
EROSION & SEDIMENT.dwg
SHEET
17
OF 31 SHEETS

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR CONSTRUCTION	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE
AS-BUILT CERTIFIED BY:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR *AS-BUILT* RECORD	
CITY ENGINEER OR APPOINTED REPRESENTATIVE	DATE

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1 **SILT FENCE DETAIL**
C-700 SCALE: NTS



CONCRETE WASHOUT AREA INSTALLATION NOTES:

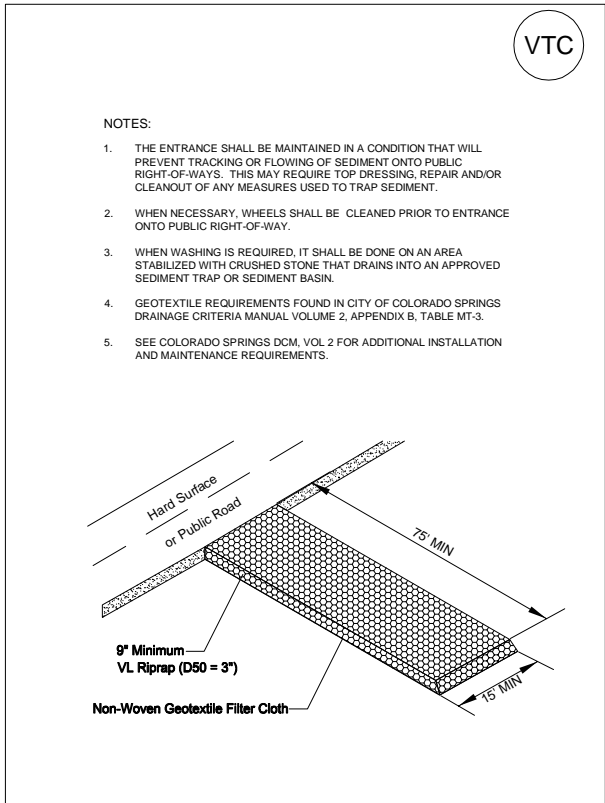
1. SEE PLAN VIEW FOR LOCATIONS OF CONCRETE WASHOUT AREA.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
3. VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT.
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES:

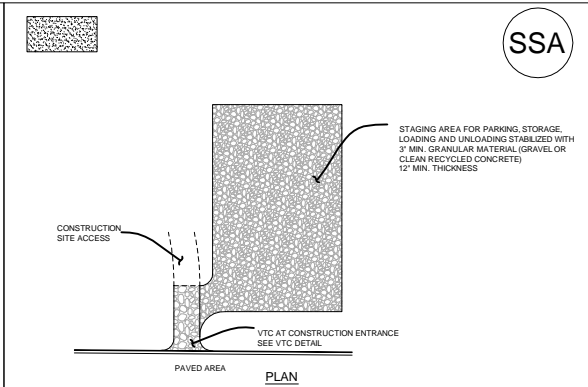
1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, DRILL SEED AND CRIMP MULCH OR OTHERWISE STABILIZE IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
4. INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

DETAIL BASED ON DETAILS PROVIDED BY DOUGLAS COUNTY
AS FOUND IN:
Urban Drainage and
Flood Control District
Drainage Criteria Manual (V.3)

2 **CONCRETE WASHOUT AREA DETAIL**
C-700 SCALE: NTS



5 **VEHICLE TRACKING CONTROL DETAIL**
C-700 SCALE: NTS



STABILIZED STAGING AREA INSTALLATION NOTES:

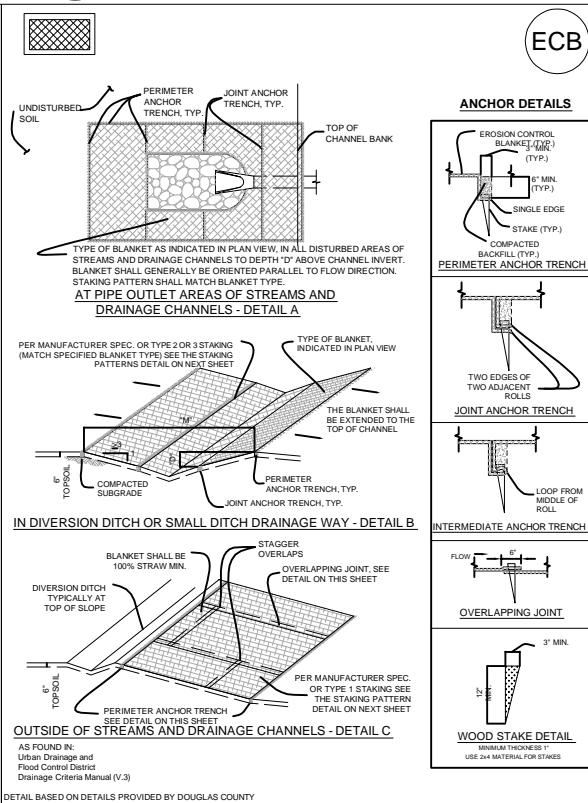
1. SEE PLAN VIEW FOR GENERAL LOCATION OF STAGING AREA. CONTRACTOR MAY MODIFY LOCATION AND SIZE OF STABILIZED STAGING AREA WITH APPROVAL FROM LOCAL JURISDICTION.
2. STABILIZED STAGING AREA SHALL BE LARGE ENOUGH TO FULLY CONTAIN PARKING, STORAGE, AND UNLOADING AND LOADING OPERATIONS.
3. IF REQUIRED BY THE LOCAL JURISDICTION, SITE ACCESS ROADS SHALL BE STABILIZED IN THE SAME MANNER AS THE STAGING AREA.
4. STAGING AREA SHALL BE STABILIZED PRIOR TO ANY OTHER OPERATIONS ON THE SITE.
5. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF 3' OF GRANULAR MATERIAL (GRAVEL OR CLEAN RECYCLED CONCRETE).

STABILIZED STAGING AREA MAINTENANCE NOTES:

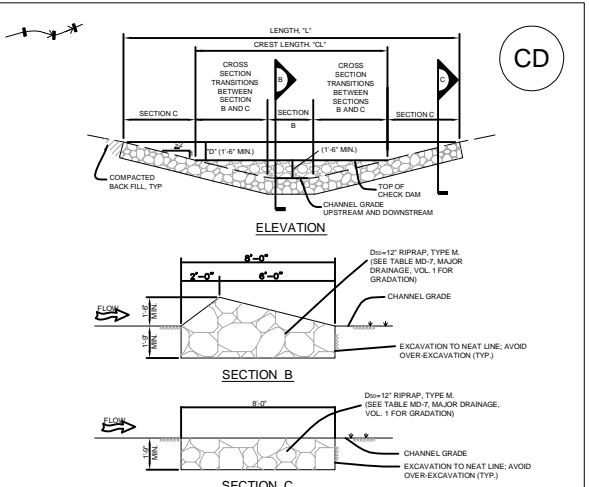
1. THE SWMP MANAGER SHALL INSPECT THE STABILIZED STAGING AREA WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
2. SWMP MANAGER SHALL PROVIDE ADDITIONAL THICKNESS OF GRANULAR MATERIAL IF ANY RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.
3. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING AND LOADING OPERATIONS.
4. ANY ACCUMULATED DIRT OR MUD SHALL BE REMOVED FROM THE SURFACE OF THE STABILIZED STAGING AREA.
5. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA TOPSOILED, DRILL SEED AND CRIMP MULCHED OR OTHERWISE STABILIZED.

DETAIL BASED ON DETAILS PROVIDED BY DOUGLAS COUNTY
AS FOUND IN:
Urban Drainage and
Flood Control District
Drainage Criteria Manual (V.3)

3 **STABILIZED STAGING AREA DETAIL**
C-700 SCALE: NTS



6 **EROSION CONTROL BLANKET DETAIL**
C-700 SCALE: NTS



CHECK DAM INSTALLATION NOTES:

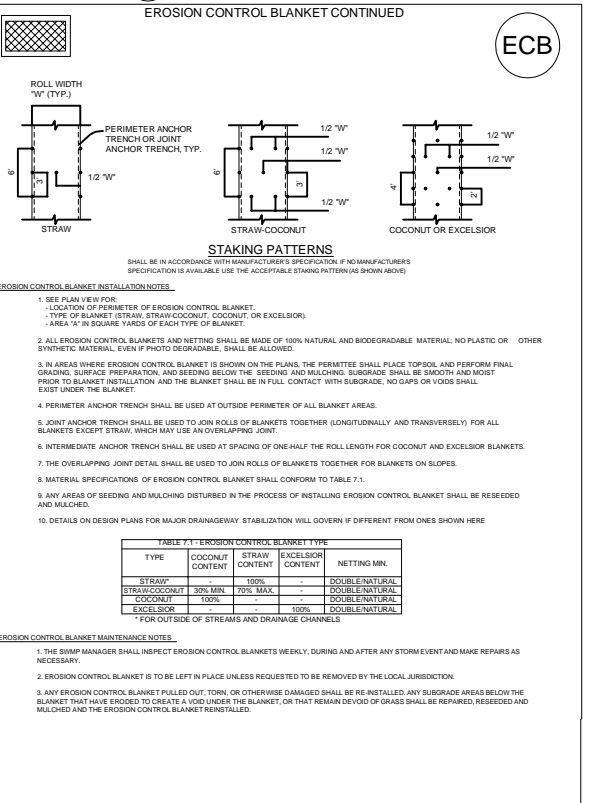
1. SEE PLAN VIEW FOR LOCATIONS OF CHECK DAMS.
2. CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAMS).
3. RIPRAP UTILIZED FOR CHECK DAMS SHALL HAVE A D₅₀ = MEDIAN STONE SIZE OF 12\".
4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1' - 8\".
5. THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' - 8\" HIGHER THAN THE CENTER OF THE CHECK DAM.

CHECK DAM MAINTENANCE NOTES:

1. THE SWMP MANAGER SHALL INSPECT CHECK DAMS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
2. SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CHECK DAM IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
3. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE COUNTY.
4. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACK FILL, ANY DISTURBED AREA SHALL BE SEED AND MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

DETAIL BASED ON DETAILS PROVIDED BY DOUGLAS COUNTY, COLORADO
AS FOUND IN:
URBAN DRAINAGE AND
FLOOD CONTROL DISTRICT
DRAINAGE CRITERIA MANUAL (V.3)

4 **CHECK DAM DETAIL**
C-700 SCALE: NTS



6 **EROSION CONTROL BLANKET DETAIL**
C-700 SCALE: NTS

PREPARED FOR CONSTRUCTION UNDER MY DIRECT SUPERVISION:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR CONSTRUCTION CITY ENGINEER OR APPOINTED REPRESENTATIVE	
"AS-BUILT" CERTIFIED BY:	
(AFFIX SEAL, EXPIRATION DATE AND PE SIGNATURE)	DATE
APPROVED FOR "AS-BUILT" RECORD CITY ENGINEER OR APPOINTED REPRESENTATIVE	
DATE	

90% SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	APP

DESIGN BY: RTS	MATTHEW D. HICKOX, EI
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DATE: 01-11-2013	35409 PE NO.

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FOUNTAIN CREEK STABILIZATION & EROSION CONTROL PROJECT

EROSION & SEDIMENT CONTROL
DETAILS

DRAWING NO.
C-701

PROJECT NO.
35-0200.00

FILE NO.
EROSION & SEDIMENT.dwg

SHEET
18

OF 31 SHEETS