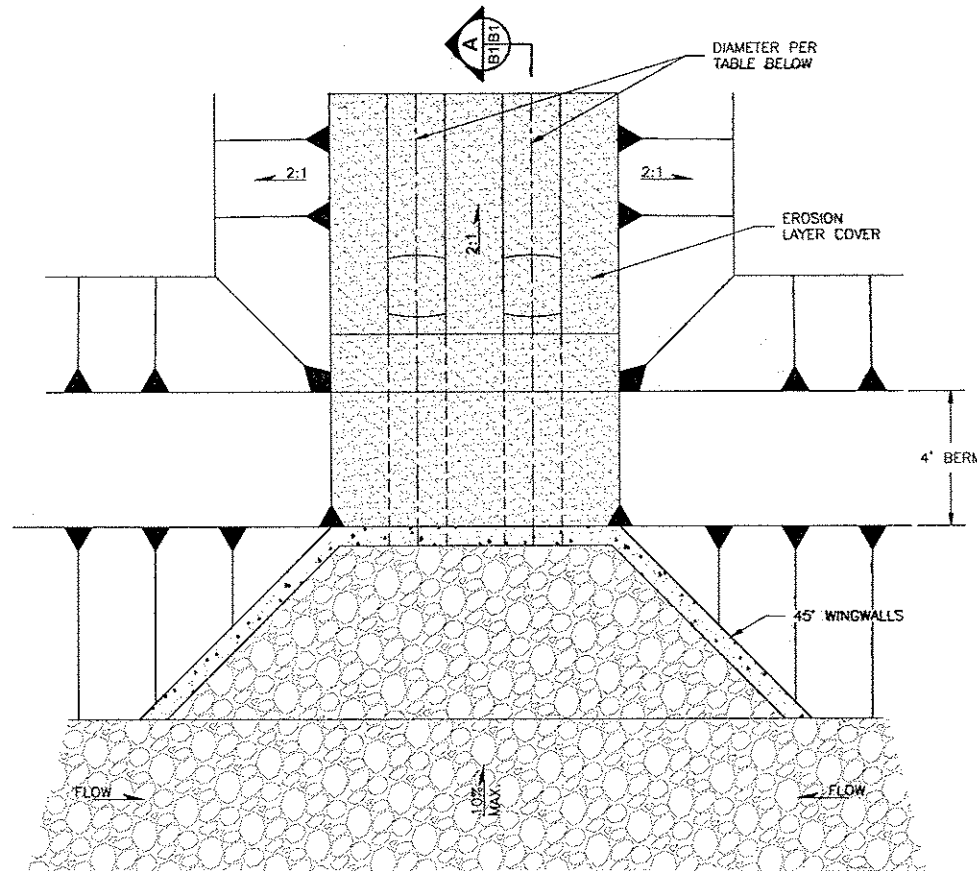
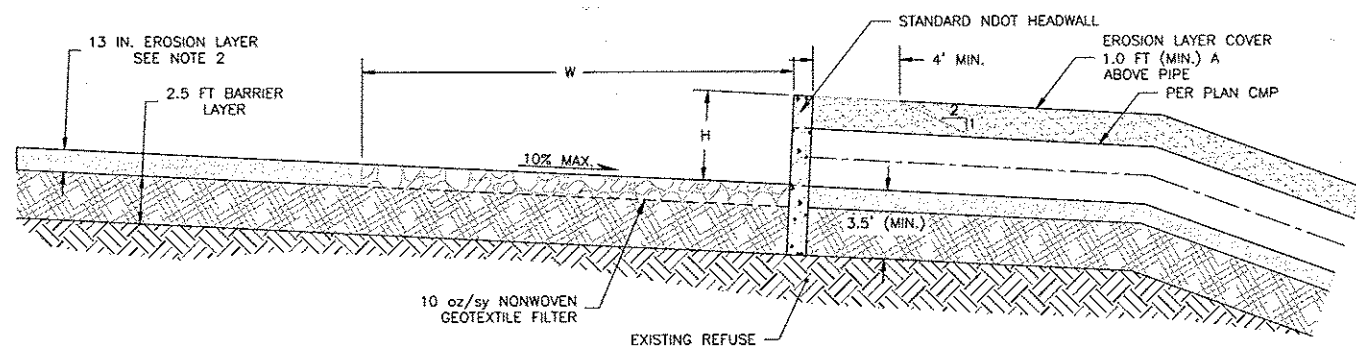


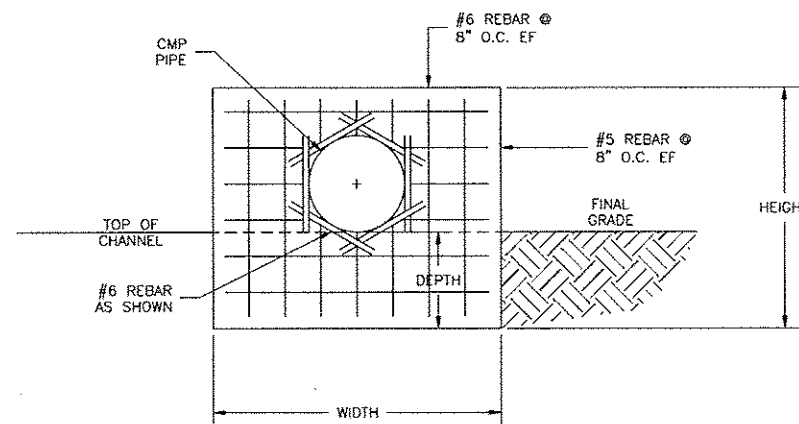
1
B1/B1
TYPICAL FINAL COVER SYSTEM TRANSITION
SCALE 0 5 FEET



2
A4/B1
PIPE DOWNDRAIN INLET
SCALE 0 5 FEET



3
B1/B5
TYPICAL TRANSITION FROM RIP RAP LINED CHANNEL TO CONCRETE LINED CHANNEL
SCALE 0 2 FEET

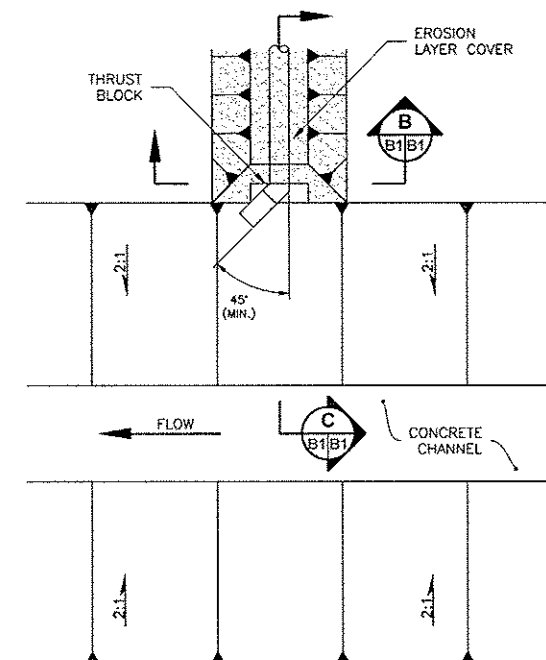


B
B1/B1
SECTION
SCALE 0 2 FEET

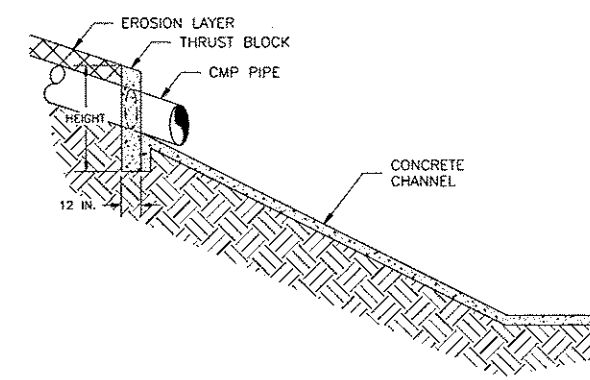
THRUST BLOCK TABLE

PIPE ID	DIAMETER (FT)	NUMBER OF BARRELS	THRUST BLOCK DEPTH (FT)	WIDTH (FT)	TOTAL WIDTH (FT)	THICKNESS (IN)
DS-1	2.0	1	2.0	4.0	4.0	12.0
DS-2	4.0	3	4.0	8.0	24.0	12.0
DS-3	3.0	3	3.0	8.0	24.0	12.0
DS-4	2.5	1	2.5	4.0	4.0	12.0
DS-5	3.0	3	3.0	8.0	24.0	12.0
DS-6	3.0	2	3.0	8.0	16.0	12.0

NOTE: WIDTH IS PER BARREL. TOTAL WIDTH PER PIPE ID SHOULD BE THE NUMBER OF BARRELS TIMES WIDTH.



4
B1/B1
THRUST BLOCK LAYOUT
SCALE 0 10 FEET



C
B1/B1
SECTION
SCALE 0 5 FEET

A
B1/B1
SECTION
SCALE 0 5 FEET

PIPE DOWNDRAIN INLET

ID	TYPE	Number of Culverts	Diameter (FT)	HEADWALL HEIGHT (FT)	LENGTH (FT)	WIDTH (W)
DS-1	CMP	1	2.0	3.0	200.0	19.0
DS-2	CMP	3	4.0	5.0	256.0	NA*
DS-3	CMP	3	3.0	4.0	250.0	19.0
DS-4	CMP	1	2.5	3.5	215.0	19.0
DS-5	CMP	3	3.0	4.0	96.0	20.0
DS-6	CMP	2	3.0	4.0	73.0	9.0

NOTES: 1) DS-2 INFLOW RECEIVED FROM CHANNEL, C-TD1. BOTTOM INVERT OF CHANNEL TO MATCH BOTTOM INVERT OF CULVERT.

NOTES:

1. RIP RAP D50 AND THICKNESS PER PLANS
2. 13" EROSION LAYER SHALL BE PLACED IN A SINGLE LIFT AND COMPACTED TO 90% DRY DENSITY RELATIVE TO STANDARD PROCTOR.
3. 14" EROSION LAYER SHALL BE PLACED IN A SINGLE LIFT AND COMPACTED WITH 4 PASSES WITH A TRACKED PIECE OF EQUIPMENT THAT HAS A MINIMUM GROUND PRESSURE OF 15 PSI.
4. CMP TO BE SMOOTH INTERIOR WITH MAXIMUM N VALUE OF 0.013

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
8/19/11	RVW		RE-ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RVW
7/1/11	RVW		RE-ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RVW
6/17/11	RVW		REVISED FOR REVIEW	ML	MB	RVW
2/25/11	RVW		ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RVW
5/5/10	JP		ISSUED FOR BIDDING	MCG	AN	RVW



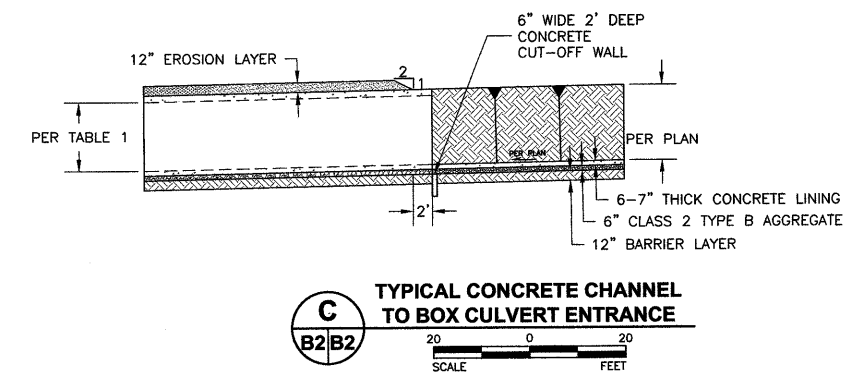
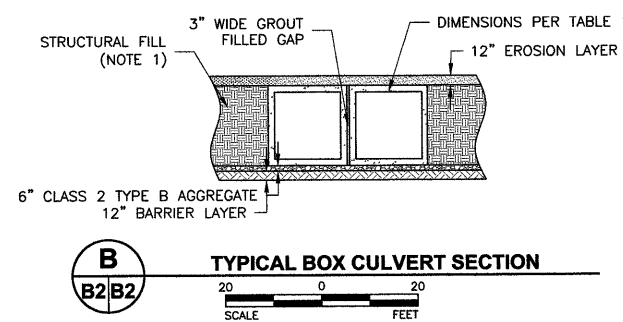
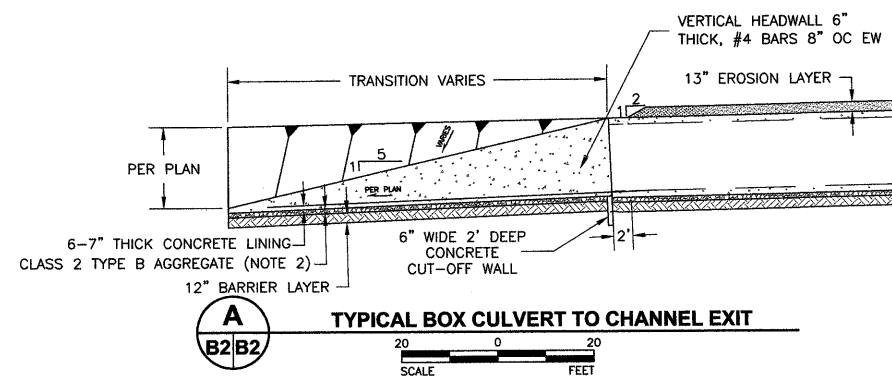
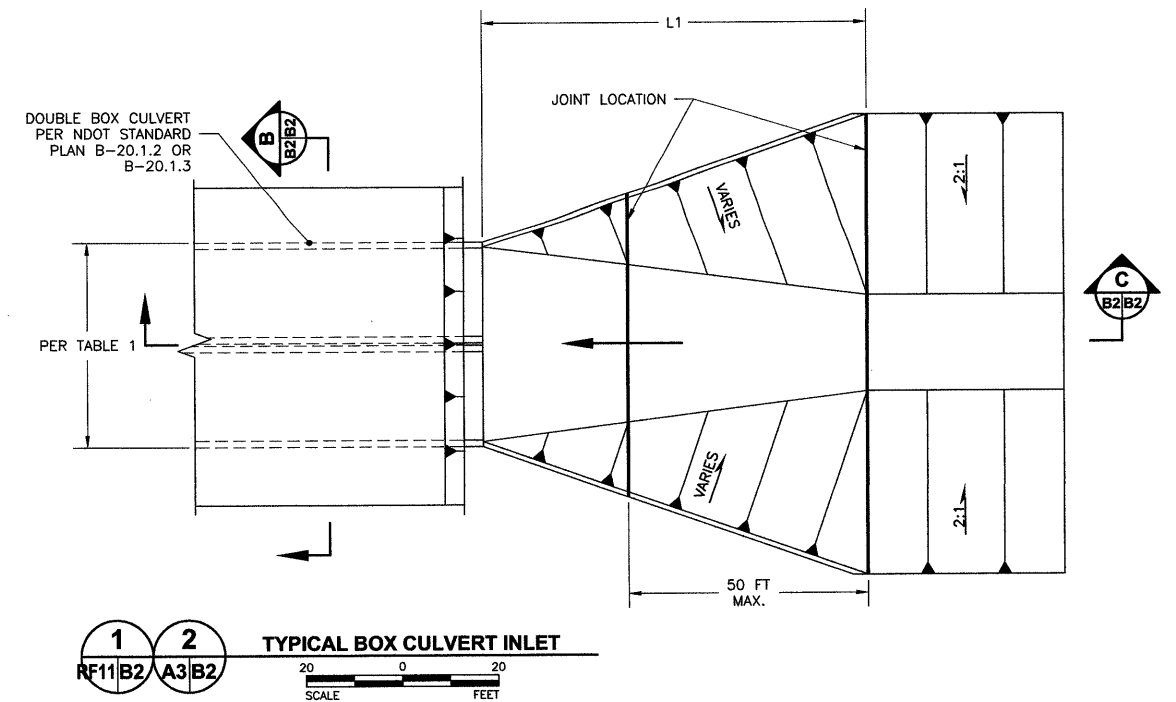
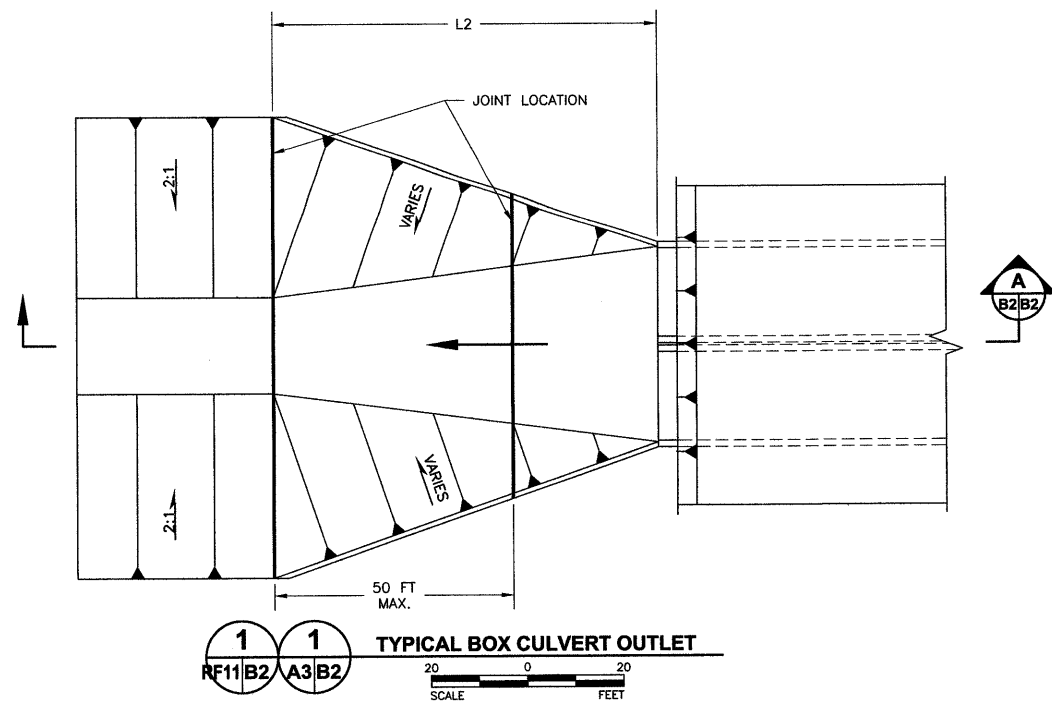
PROJECT
**REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA**

TITLE
SECTIONS AND DETAILS

DESIGN	JP	07/01/10	FILE No.	093-97436-DETAIL
CADD	MGG	07/01/10	SCALE	AS SHOWN
CHECK	AN	07/01/10	REV.	5
REVIEW	RVW	07/01/10		



B1



BOX CULVERTS						
ID	TYPE	NUMBER OF CULVERTS	CULVERT HEIGHT (FT)	CULVERT WIDTH (FT)	CULVERT LENGTH (FT)	TRANSITION LENGTH, L1 (FT)
CL-1	CONCRETE BOX	2	5.0	12.0	50.0	50.0
CL-2	CONCRETE BOX	2	5.0	10.0	50.0	50.0
CL-3	CONCRETE BOX	2	4.0	10.0	50.0	50.0

NOTE: MAXIMUM LONGITUDINAL TRANSITION LENGTH TOLERANCE OF +/- 2.0 FT

- NOTES:
- STRUCTURAL FILL SHALL BE PLACED IN 8 INCH LOOSE LIFTS AND COMPACTED TO 90% DRY DENSITY RELATIVE TO MODIFIED PROCTOR.
 - TYPE II CLASS B AGGREGATE BASE SHALL BE PLACED IN 8 IN LIFTS AND COMPACTED TO 95% DRY DENSITY RELATIVE TO THE NEV T101.
 - MAINTAIN CONSTANT SLOPE THROUGH ALL TRANSITIONS.

7/1/11	RW	RE-ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
2/25/11	RW	ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
5/5/10	JP	ISSUED FOR BIDDING	MCG	AN	RW
REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK

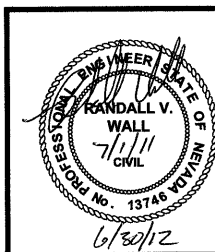
REPUBLIC SERVICES, INC.

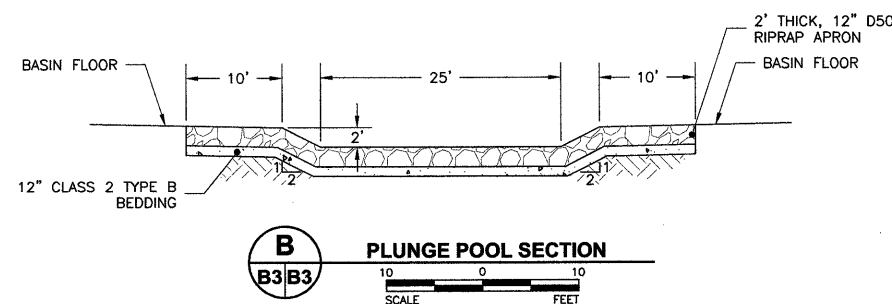
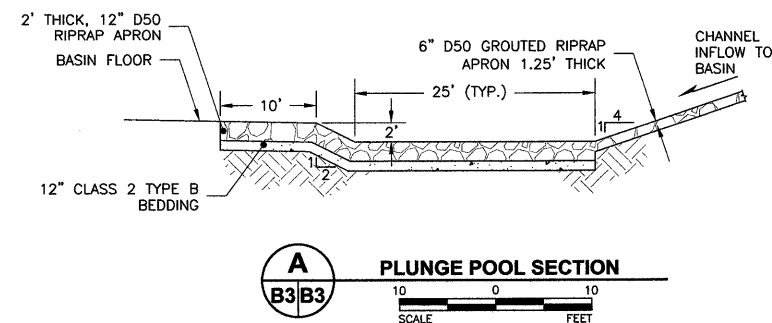
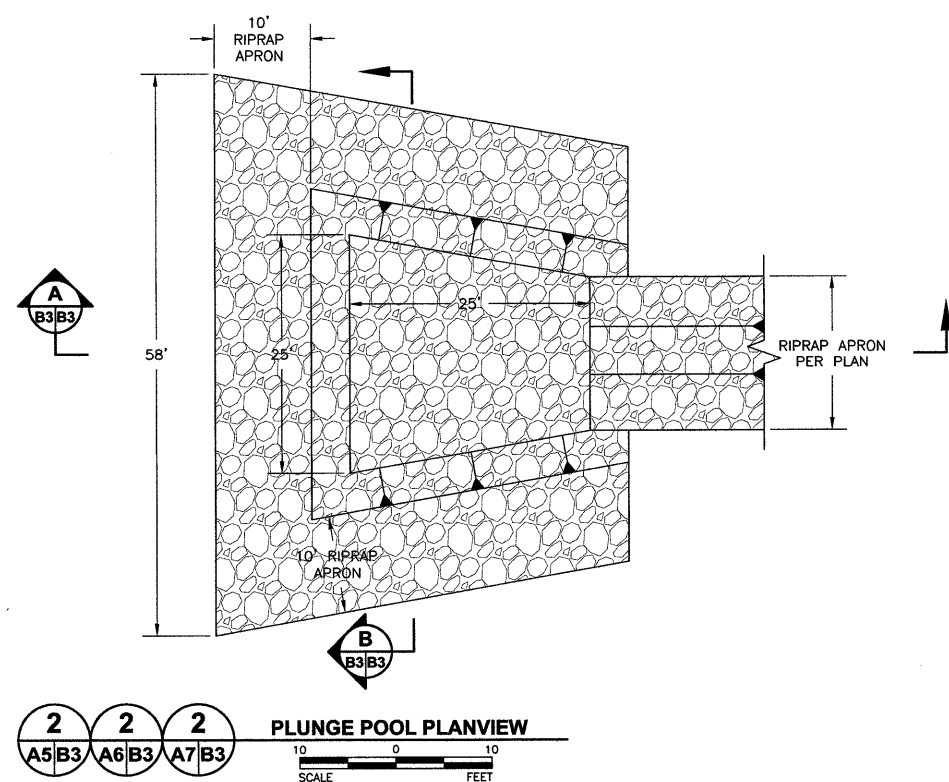
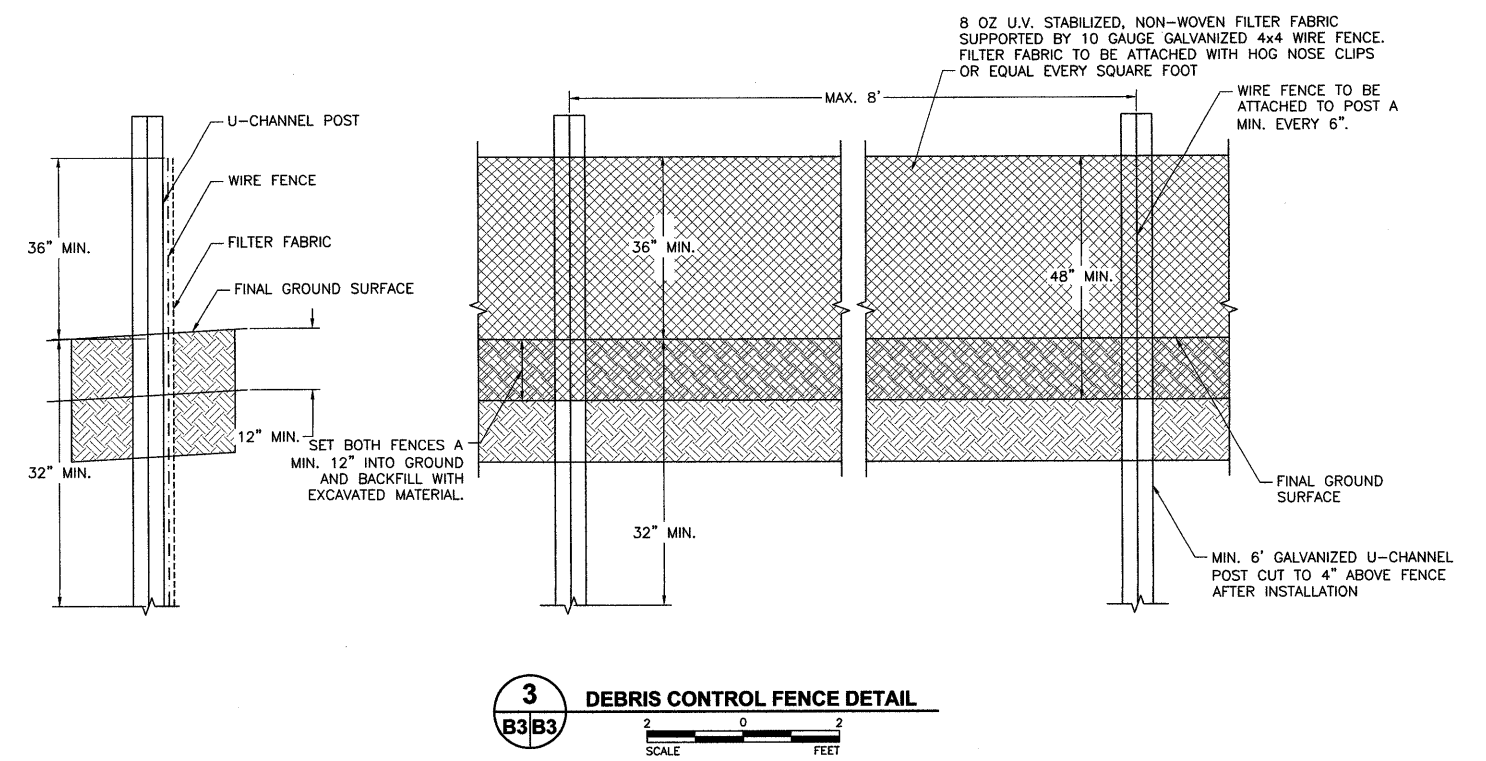
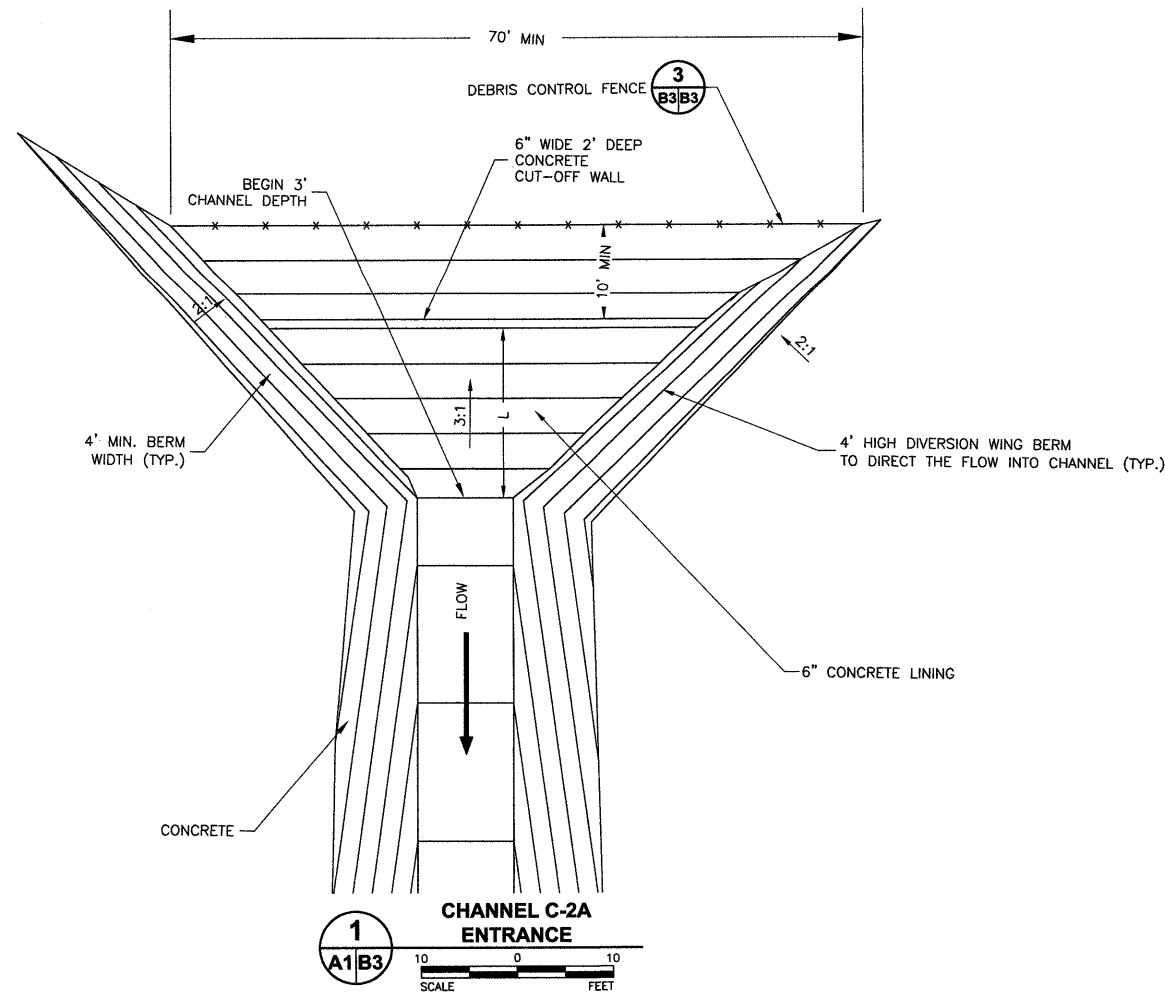
PROJECT: REPUBLIC SERVICES, INC. SUNRISE MOUNTAIN LANDFILL LAS VEGAS, NEVADA

TITLE: SECTIONS AND DETAILS

PROJECT No.	093-97436	FILE No.	093-97436-DETAIL
DESIGN	JP	07/01/10	SCALE AS SHOWN
CADD	MGG	07/01/10	REV. 5
CHECK	AN	07/01/10	
REVIEW	RW	07/01/10	

B2





REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RW
7/1/11	RW		RE-ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
6/16/11	RW		REVISED FOR REVIEW	ML	MB	RW
3/11/11	RW		REVISED PLUNGE POOL DIMENSIONS	ML	MB	RW
2/25/11	RW		REVISED FOR REVIEW	ML	MB	RW
5/5/10	JP		ISSUED FOR BIDDING	MCG	AN	RW



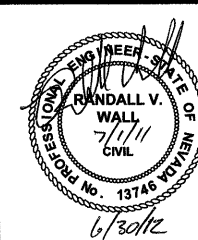
PROJECT
**REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA**

SECTIONS AND DETAILS

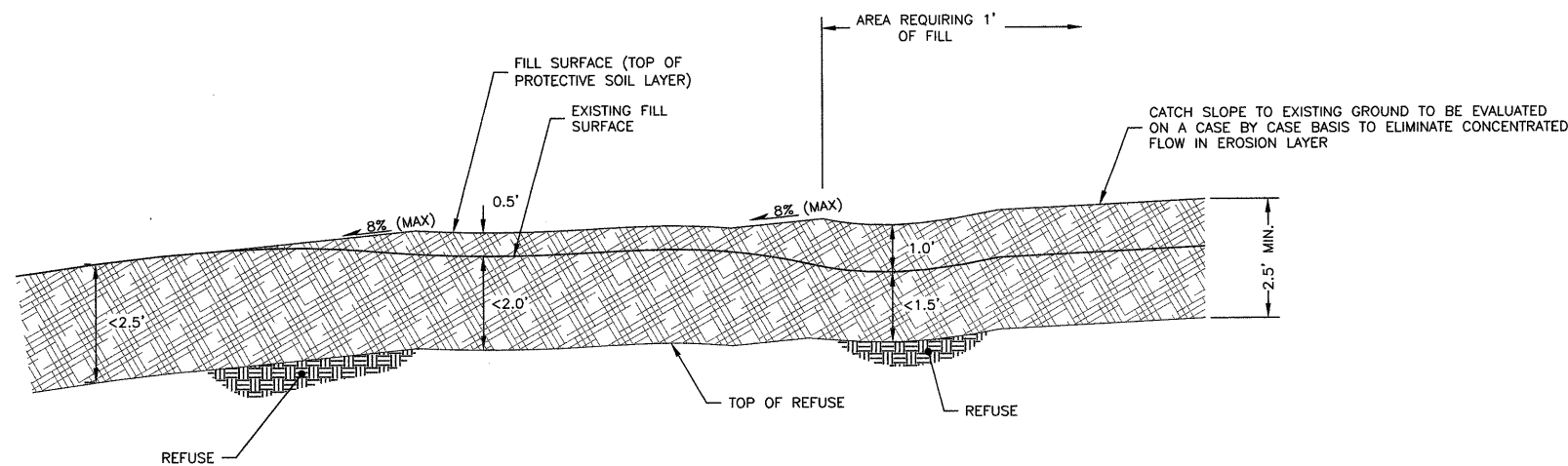


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CADD	MGG	07/01/10	
CHECK	AN	07/01/10	
REVIEW	RW	07/01/10	

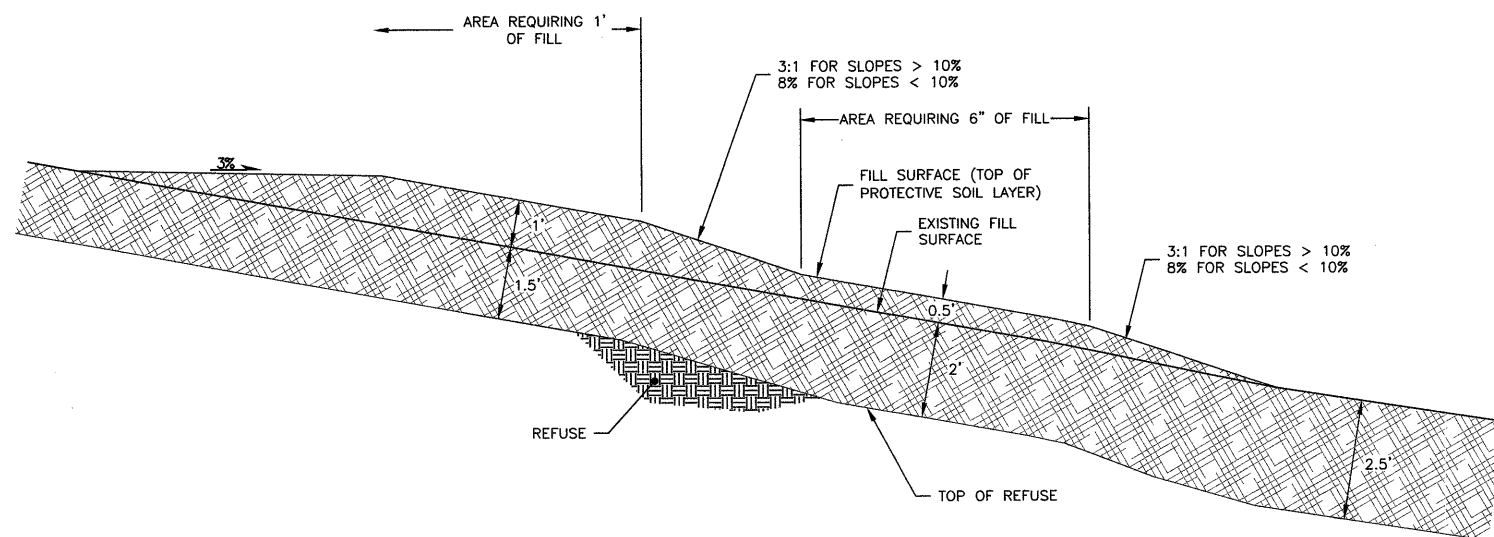
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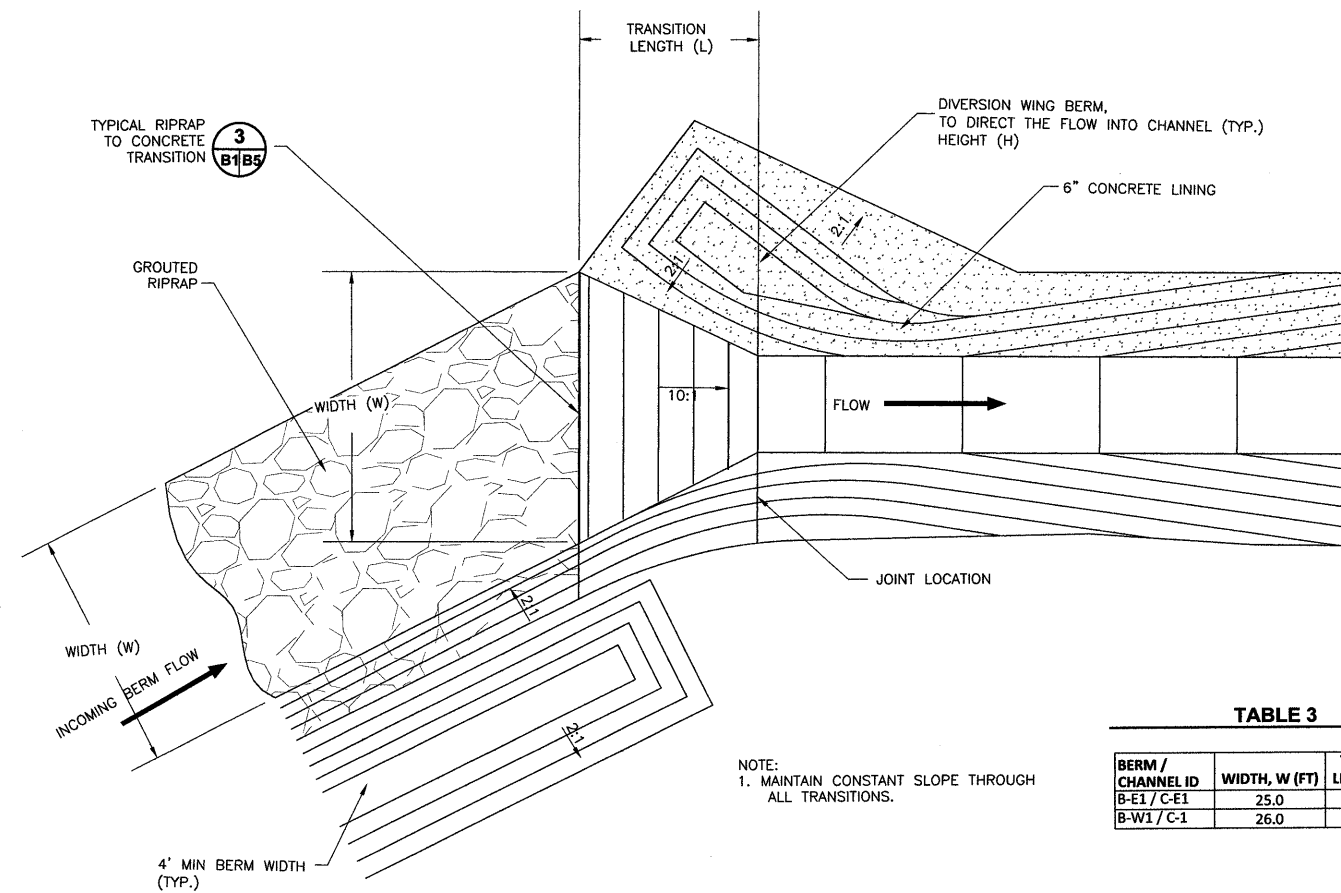




1
SOIL PROTECTION LAYER FILL (TYP)
SB2/B5
2 0 2
SCALE FEET



2
SOIL PROTECTIVE LAYER FILL (TYP)
SB2/B5
2 0 2
SCALE FEET



3
BERM TO CONCRETE CHANNEL TRANSITION (TYP)
A3/B5
10 0 10
SCALE FEET

NOTE:
1. MAINTAIN CONSTANT SLOPE THROUGH ALL TRANSITIONS.

TABLE 3

BERM / CHANNEL ID	WIDTH, W (FT)	TRANSITION LENGTH, L (FT)
B-E1 / C-E1	25.0	50.0
B-W1 / C-1	26.0	50.0

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RW
7/1/11	RW		RE-ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
6/17/11	RW		REVISED FOR REVIEW	ML	MB	RW
3/15/11	RW		DELETED DETAIL	ML	MB	RW
2/25/11	RW		ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
5/5/10	JP		ISSUED FOR BIDDING	MCG	AN	RW



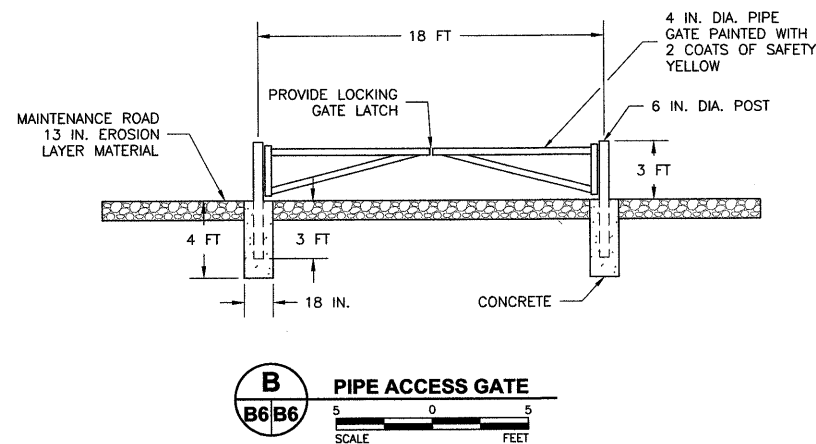
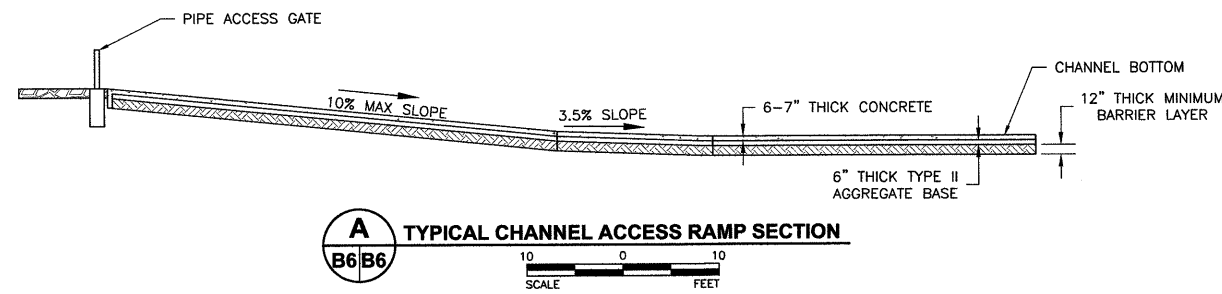
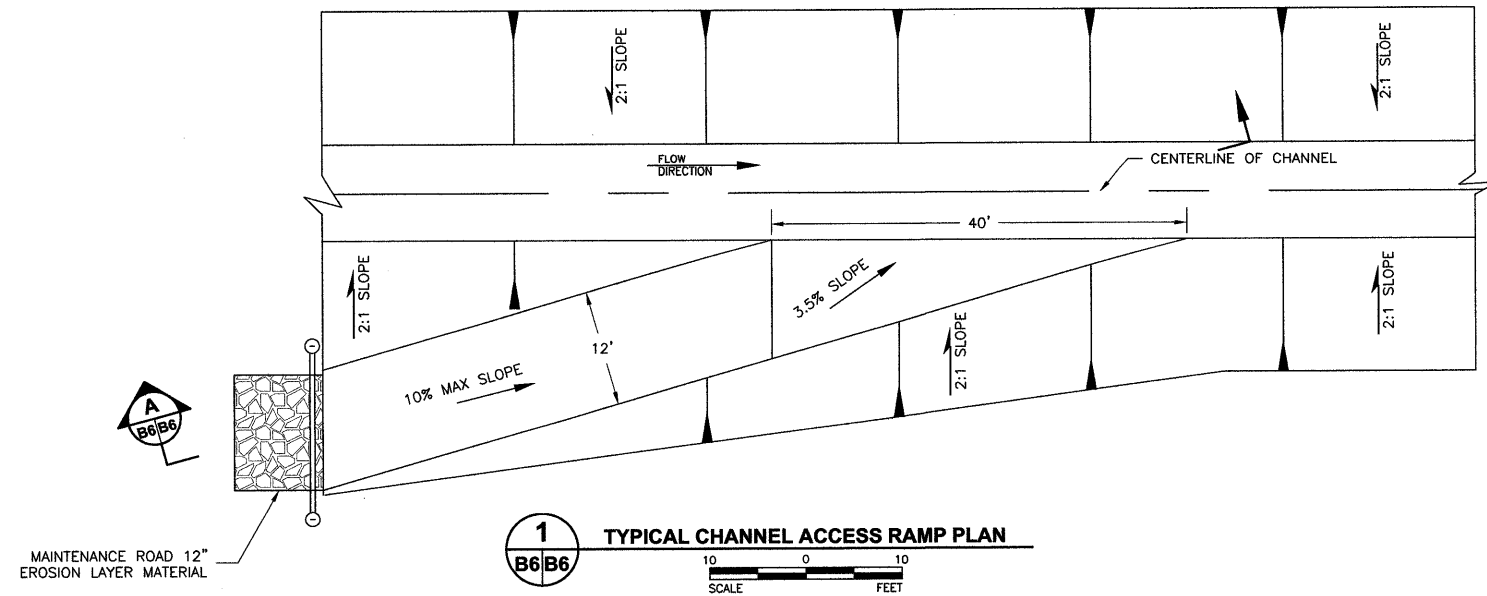
PROJECT
**REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA**

TITLE
SECTIONS AND DETAILS

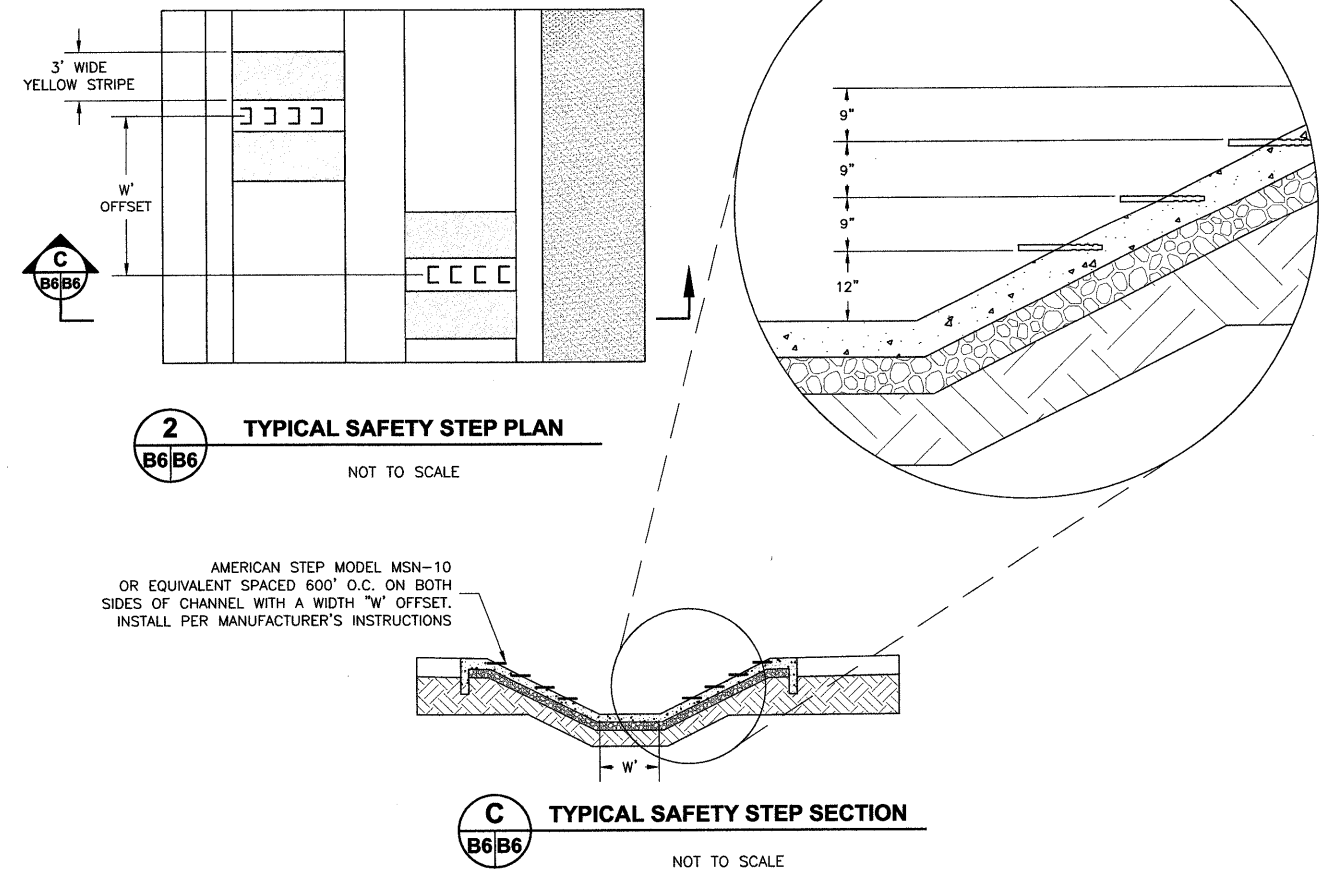
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DESIGN	JP	07/01/10	SCALE AS SHOWN
CADD	MGG	07/01/10	REV. 5
CHECK	AN	07/01/10	
REVIEW	RW	07/01/10	



B5



NOTES:
1. SAFETY LADDERS SHALL BE PLACED AT 600' INTERVALS ON BOTH SIDES OF CHANNEL SIDE SLOPES WITH A WIDTH "W" OFFSET.



REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RW
7/1/11	RW		RE-ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
2/25/11	RW		ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
6/2/10	JP		ADDENDUM-ADDED SIDE CHANNEL DETAIL	ML	AN	RW
5/5/10	JP		ISSUED FOR BIDDING	MCG	AN	RW



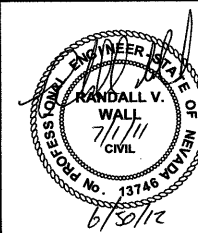
PROJECT
**REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA**

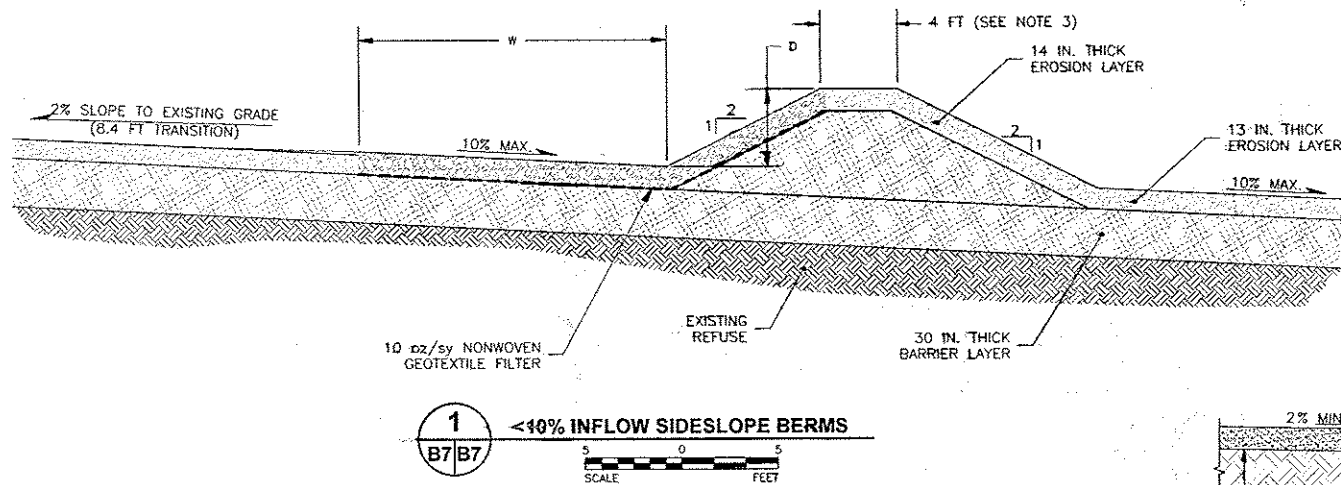
TITLE
SECTIONS AND DETAILS



PROJECT No.	093-97436	FILE No.	093-97436-DETAIL
DESIGN	JP 07/01/10	SCALE	AS SHOWN
CADD	MGG 07/01/10	REV.	5
CHECK	AN 07/01/10		
REVIEW	RW 07/01/10		

B6

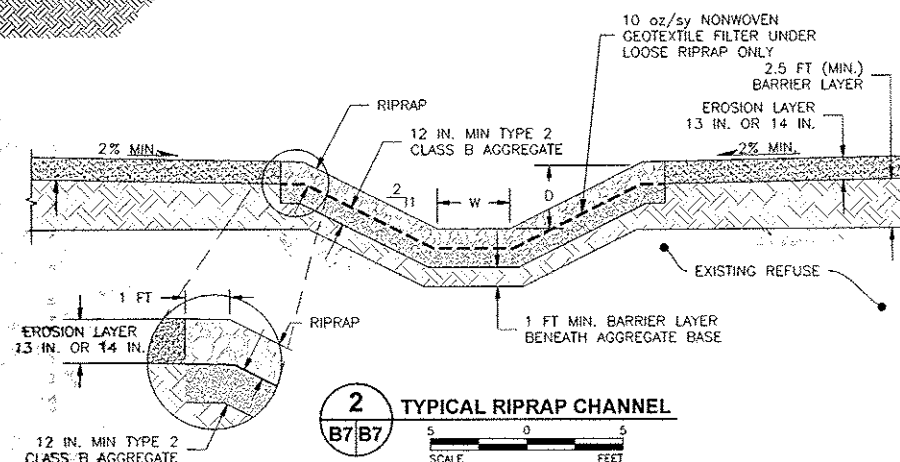




1
B7/B7
SCALE 0 5 FEET
<10% INFLOW SIDESLOPE BERMS

ID	INFLOW (CFS)	MAX FLOW (CFS)	DEPTH, D (FT)	Min Slope (%)	Max Slope (%)	LINING WIDTH, W (FT)	LINING TYPE (FT)	LINING DEPTH (IN)
B-E1	357	3.1	5.5	1.0	8.0	24.8	GROUTED RIPRAP*	16.0
B-W1	426	3.3	5.5	1.0	1.5	26	GROUTED RIPRAP	16.0
B-TD1	174	2.3	3.3	1.0	3.0	18.96	GROUTED RIPRAP	16.0
B-TD2	138	2.4	3.2	1.0	3.0	18.96	14-INCH D50	28.0
B-SW1	131	2.52	3.1	0.5	1.2	20.16	6-INCH D50	12.0
B-SW2	21	1.27	2.0	0.5	1.2	10.16	3-INCH D50	6.0
B-SW3	115	2.40	3.0	0.5	1.0	19.2	5-INCH D50	10.0
B-SW4	158	2.70	3.5	0.5	1.1	21.6	6-INCH D50	12.0
B-SW5	91	1.77	2.5	0.5	1.2	14.16	4-INCH D50	8.0
B-SW6	80	1.88	2.5	0.5	1.1	15.04	4-INCH D50	8.0
B-SW7	93	1.78	2.5	0.5	1.5	14.08	5-INCH D50	10.0
B-SE1	175	2.80	3.5	0.5	1.1	22.4	6-INCH D50	12.0
B-SE2	219	3.05	3.8	0.5	1.2	24.4	7-INCH D50	14.0
B-SE3	123	2.45	3.1	0.5	1.3	19.6	6-INCH D50	12.0
B-SE5	135	2.24	3.0	1.0	2.0	17.92	10-INCH D50	20.0
B-EP1	124	2.47	3.1	0.5	1.3	19.76	6-INCH D50	12.0
B-EP2	62	1.90	2.5	0.5	1.1	15.2	4-INCH D50	8.0
B-EP3	13	1.06	2.0	0.5	1.5	8.48	3-INCH D50	6.0

GROUTED RIPRAP ROCK PROTRUSIONS FOR B-E1 SHALL NOT EXCEED 1-INCH AT STATIONS 5+00 - 5+50, 7+00 - 7+50, AND 10+00 - 11+50.

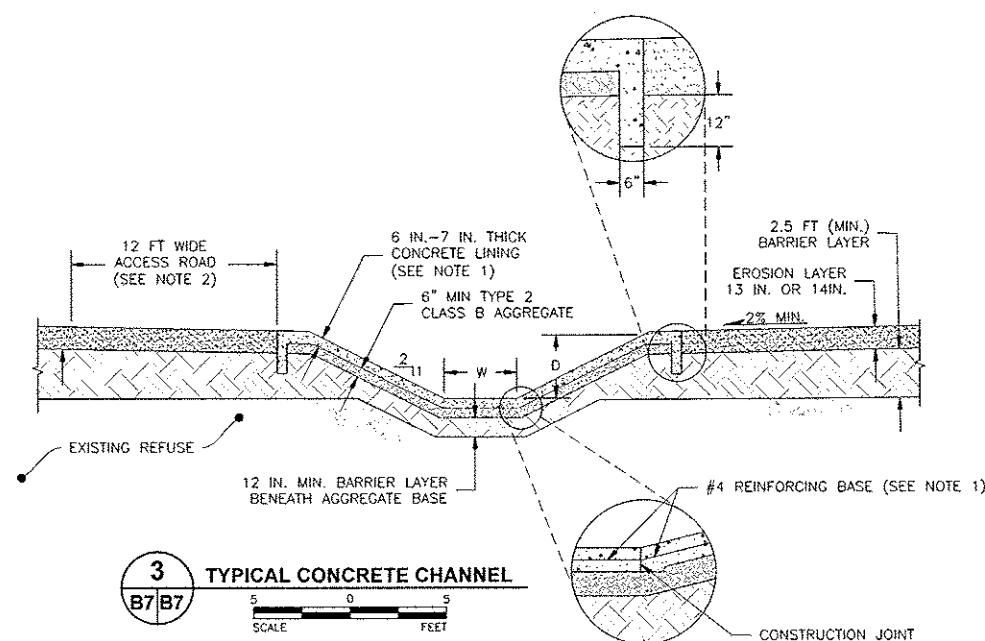


2
B7/B7
SCALE 0 5 FEET
TYPICAL RIPRAP CHANNEL

TRAPEZOIDAL RIPRAP CHANNELS

ID	STATION	Sideslope (H:V)	DEPTH, D (FEET)	WIDTH, W (FEET)	LINING TYPE (FEET)	THICKNESS (INCHES)
C-W1	0+00	3+26	2:1	5.0	GROUTED RIPRAP	16.0
C-W2	0+00	6+45	2:1	3.0	GROUTED RIPRAP	16.0
C-W3	0+00	16+79.76	2:1	3.0	GROUTED RIPRAP	16.0
C-1A	0+00	5+05	4:1	4.0	GROUTED RIPRAP	16.0
C-SE1	43+54	47+87.91	2:1	3.0	GROUTED RIPRAP	16.0
C-123	0+00	9+50	2:1	3.0	GROUTED RIPRAP	16.0
C-123	9+50	15+00	2:1	4.0	GROUTED RIPRAP	16.0
C-123	15+00	26+22.67	2:1	5.0	GROUTED RIPRAP	16.0
C-TD1	0+00	10+21.85	2:1	3.5	6-INCH D50	12.0*

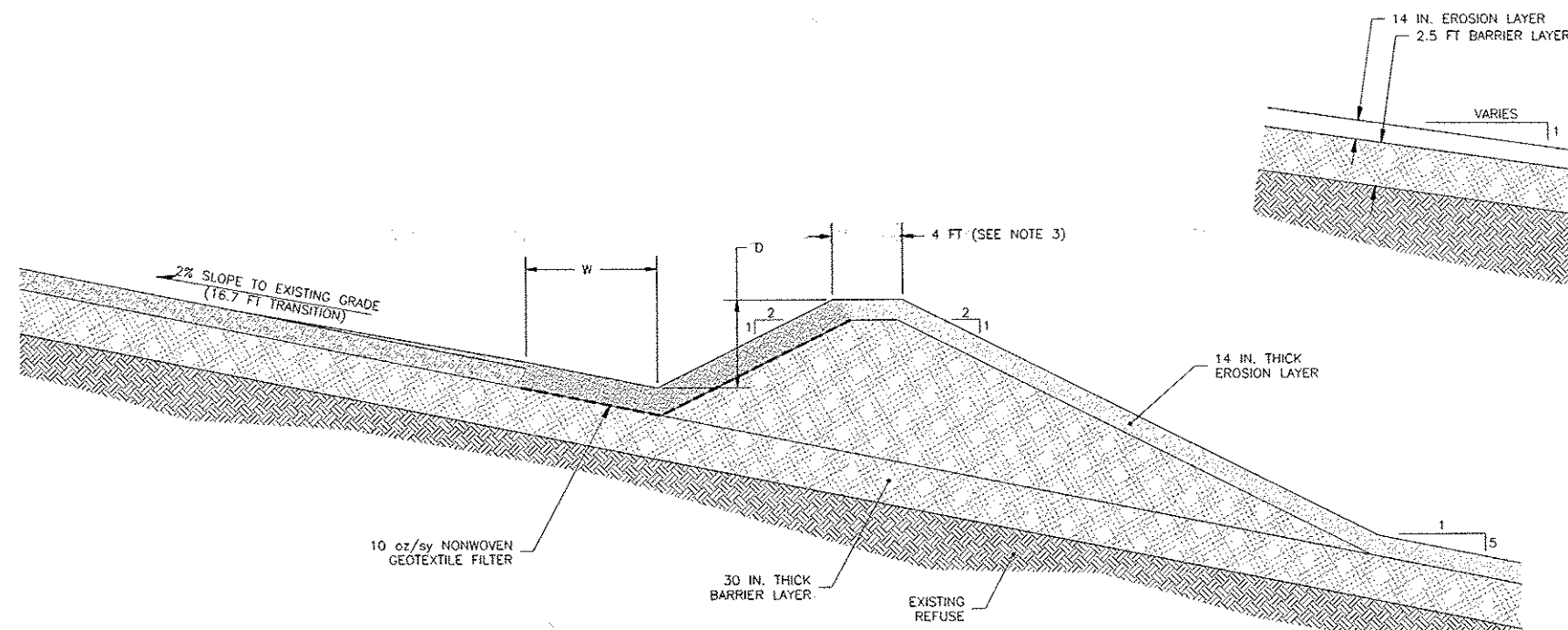
NOTE: GROUTED RIPRAP ROCK PROTRUSIONS FOR C-SW3 SHALL NOT EXCEED 1-INCH.
* EDGE OF RIPRAP TO BE 24" THICK



3
B7/B7
SCALE 0 5 FEET
TYPICAL CONCRETE CHANNEL

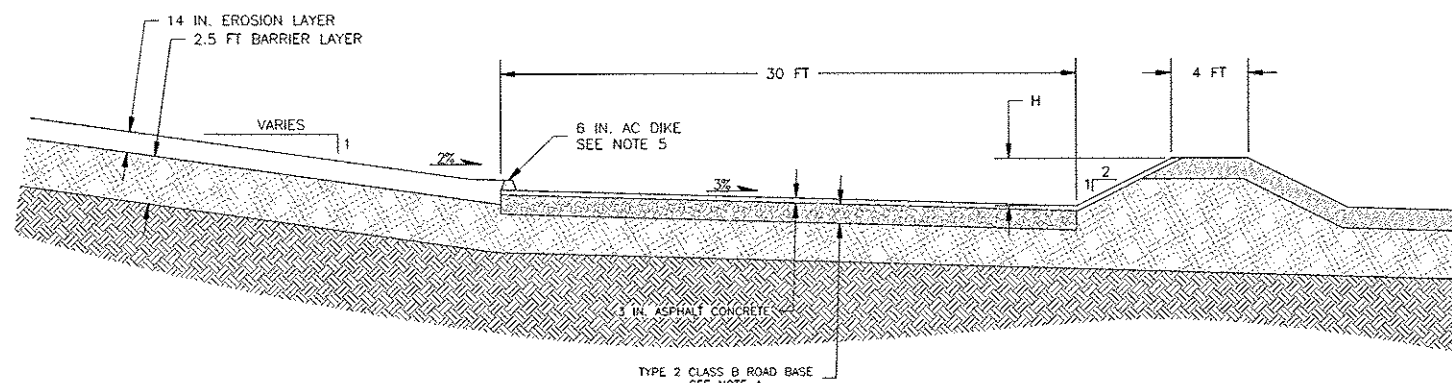
TRAPEZOIDAL CONCRETE CHANNELS

ID	STATION	Sideslope (H:V)	DEPTH, D (FEET)	WIDTH, W (FEET)	LINING TYPE (FEET)	THICKNESS (INCHES)
C-DOC1	0+00	15+57.28	2:1	5.5	CONCRETE	6.0
C-DOC2	16+71.39	17+71.39	2:1	6.0	CONCRETE	6.0
C-EPC1	18+50.82	23+50.16	2:1	8.5	CONCRETE	6.0
C-EPC1	24+50.99	25+50.99	2:1	9.5	CONCRETE	6.0
C-EPC1	25+87.33	34+28.10	2:1	9.5	CONCRETE	6.0
C-EPC1	34+78.10	35+28.10	2:1	9.5	CONCRETE	6.0
C-EPC2	36+24.12	37+34.12	2:1	9.5	CONCRETE	6.0
C-EPC2	38+04.12	50+03.54	2:1	9.5	CONCRETE	6.0
C-2B	50+03.54	53+50.00	2:1	9.5	CONCRETE	6.0
C-3	54+00	73+99.5	2:1	11.0	CONCRETE	6.0
ROCKFALL	74+99.5	80+98.65	NA	7.0	CONCRETE	12.0
C-E1	0+00	5+98.13	3:1	5.0	CONCRETE	6.0
C-E1	6+39.75	8+36.39	2:1	6.0	CONCRETE	6.0
C-W1	3+26	7+61.39	2:1	6.0	CONCRETE	6.0
C-1	0+00	12+59.37	2:1	6.0	CONCRETE	6.0
C-1	13+05.22	15+37.95	2:1	6.5	CONCRETE	6.0
C-1A	5+05	9+03.01	2:1	4.0	CONCRETE	6.0
C-2A	0+00	7+32.35	2:1	3.0	CONCRETE	6.0
C-W2	6+45	17+71.72	2:1	5.0	CONCRETE	7.0
C-SW4	0+00	5+35.10	3:1	2.0	CONCRETE	6.0



4
B7/B7
SCALE 0 5 FEET
>10% INFLOW SIDESLOPE BERMS

ID	INFLOW (CFS)	MAX FLOW (CFS)	DEPTH, D (FT)	Min Slope (%)	Max Slope (%)	LINING WIDTH, W (FT)	LINING TYPE (FT)	LINING DEPTH (IN)
B-W2	70	2.6	3.4	0.5	1.5	10.4	8-INCH D50	16.0
B-W3	87	2.8	3.6	0.5	1.5	11.2	8-INCH D50	16.0
B-BP1	31	1.6	2.5	1.0	3.0	6.4	9-INCH D50	18.0



5
A4/B7 A5/B7
SCALE 0 5 FEET
ASPHALT ROAD

TABLE 5

ROAD ID	STATION	BERM HEIGHT, H (FT)
CRD-1	0+00 - 21+00	3.0
CRD-1	20+00 - 43+39	3.5
C-RD-2	0+00 - 18+13	2.5

- NOTES:
- LONGITUDINAL REINFORCEMENT: #4 BAR AT 8" ON CENTER (#5 BAR FOR 7-INCH CONCRETE) TRAVERSE REINFORCEMENT: #4 BAR AT 12" ON CENTER (#5 BAR FOR 7-INCH CONCRETE).
 - ACCESS ROADS TO BE PROVIDED ON DITCHES CARRYING GREATER THAN 300 CFS.
 - MINIMUM RADIUS OF CURVATURE (ROC) FOR ALL BERMS IS 50'.
 - 12 IN. ROAD BASE FOR CRD-1 FROM STA. 0+00 TO 0+23. 6 IN. ROAD BASE FOR ALL OTHER ASPHALT ROADS.
 - AC DIKE 12 IN. FOR CRD-1 STA. 13+00 TO 20+00 AND FOR CRD-2 STA. 13+00 TO 17+00.

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
6	8/19/11	RVW	RE-ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
5	7/1/11	RVW	RE-ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
4	6/17/11	RVW	REVISED FOR REVIEW	ML	MB	RW
3	2/25/11	RVW	ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
2	5/5/10	JP	ISSUED FOR BIDDING	MCC	AN	RW
1			REVISION DESCRIPTION			

REPUBLIC
SERVICES, INC.

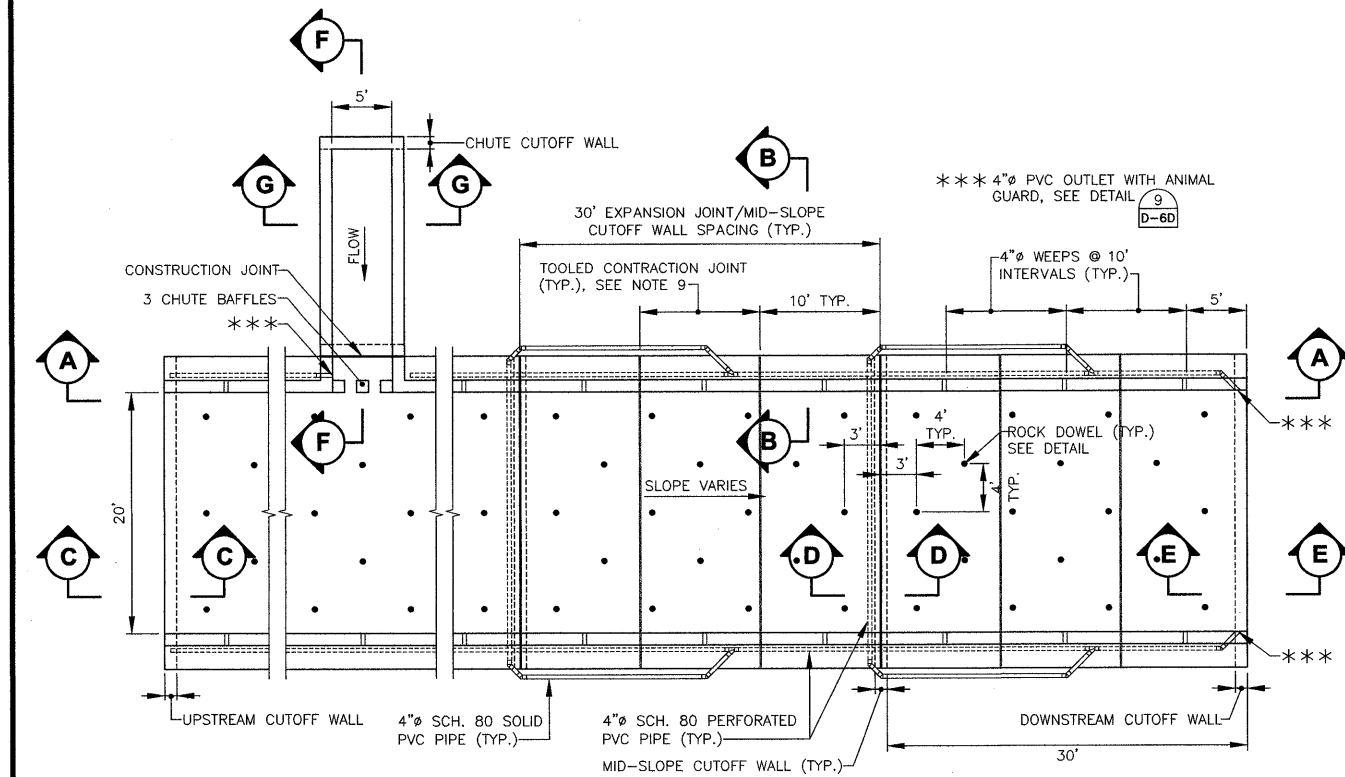
REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA

SECTIONS AND DETAILS

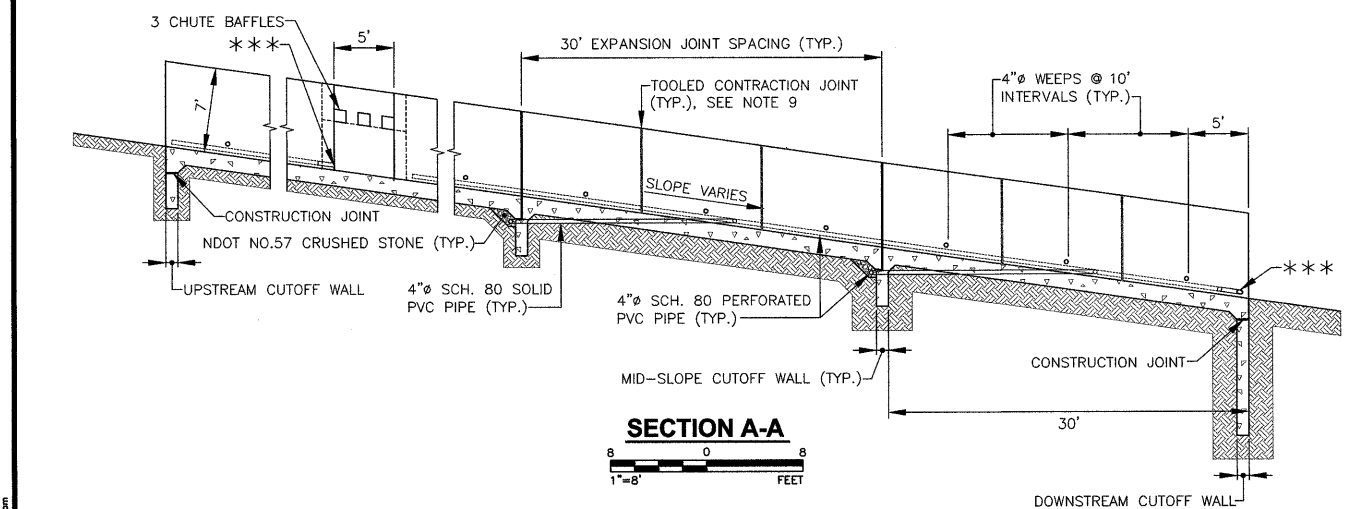
Goldier
Associates
Sacramento, California

PROJECT No.	093-97436	FILE No.	093-97436-DETAIL
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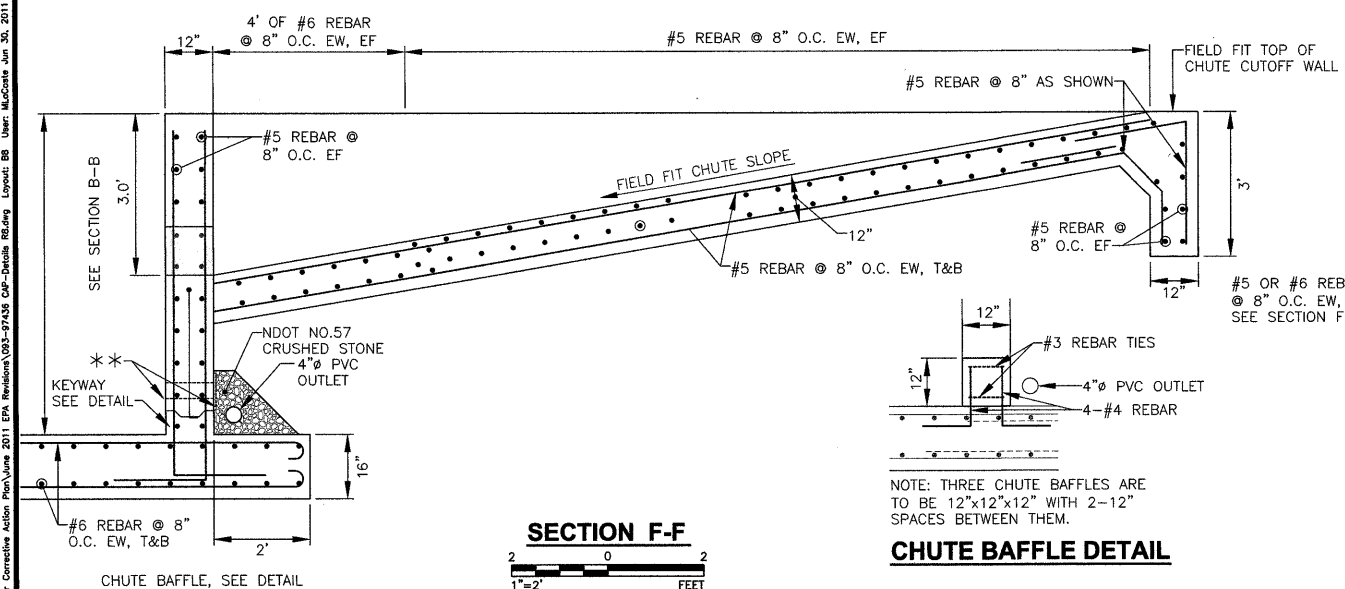
B7



PLAN



SECTION A-A

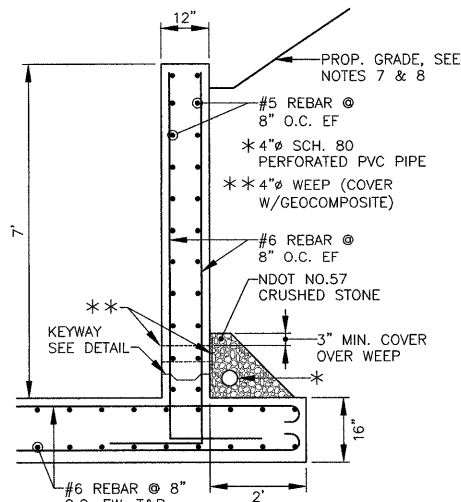


SECTION F-F

CHUTE BAFFLE DETAIL

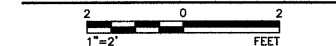
ROCK DOWEL NOTE

IN SECTIONS B THRU F ROCK DOWELS IN CHANNEL INVERT SLAB ARE NOT SHOWN FOR CLARITY, SEE ROCK DOWEL DETAIL.

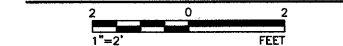


CHANNEL INVERT & SIDE WALLS - SECTION B-B

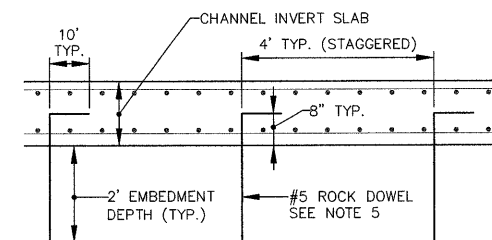
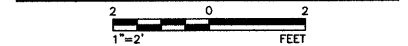
UPSTREAM CUTOFF WALL SECTION C-C



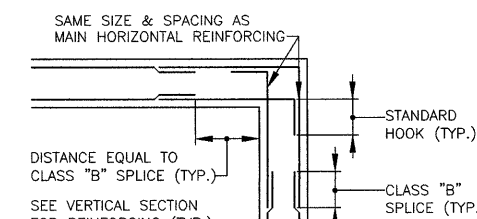
MID-SLOPE CUTOFF WALL SECTION D-D



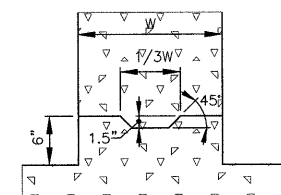
DOWNSTREAM CUTOFF WALL - SECTION E-E AT STATION 80+99



ROCK DOWEL DETAIL



WALL CORNER PLAN



KEYWAY DETAIL

BAR LAP & BENDING NOTES

- DEVELOPMENT LENGTHS PER ACI 318-LATEST EDITION.
- APPLIES TO NORMAL WEIGHT CONCRETE WITH COMPRESSIVE STRENGTH (f'_c)=4000 PSI AND UNCOATED REINFORCEMENT YIELD STRENGTH (F_y)=60000 PSI.
- TYPE I LAP IS ONLY PERMITTED IF ONE OF THE FOLLOWING CONDITIONS EXIST:
 - THE BAR CLEAR SPACING IS MORE THAN D_b , AND THERE ARE STIRRUPS ALONG THE SPLICE LENGTH.
 - THE BAR CLEAR SPACING IS MORE THEN $2D_b$, AND THE CLEAR COVER IS MORE THAN D_b .
- TYPE II LAP SHALL BE USED WHEN CONDITIONS OF 3.1 AND 3.2 ARE NOT SATISFIED.
- LD DIMENSION SHALL BE USED FOR HORIZONTAL SPLICES WITH MORE THAN 12 INCHES OR FRESH CONCRETE BELOW THE SPLICE.
- FOR CLASS B SPLICES, LAP LENGTHS MAY BE REDUCED IF CONDITIONS FOR CLASS A SPLICE ARE MET. CLASS A SPLICES SHALL BE AS DEFINED BY ACI 318-LATEST EDITION.
- SIDE COVER NOT LESS THAN $2\frac{1}{2}$ INCHES AND COVER ON EXTENSION NOT LESS THAN 2 INCHES.
- THE "B" DIMENSION MAY BE REDUCED TO 80% OF AMOUNT SHOWN (6" MINIMUM) FOR HOOKS ENCLOSED IN TIES OR STIRRUPS.
- SPLICE LENGTHS MAY BE ADJUSTED WHEN SPLICE OCCURS IN A LOW STRESS AREA.

BAR LAP & BENDING SCHEDULE (1)(2)

BAR SIZE	D _b	MIN. LAP (INCHES) (6)									
		TYPE I (3)				TYPE II (4)				90° HOOK	
		L(5)	LD(5)	L(5)	LD(5)	R	A	B(7)(8)	O.D.	A	B(7)(8)
#3	0.275	19	24	28	36	1.50	6	3	1.50	6	3
#4	0.500	25	32	37	48	2.00	8	4	2.00	7	4
#5	0.625	31	40	46	60	2.50	10	5	2.50	8	5
#6	0.750	37	48	56	72	3.00	12	6	3.00	10	6
#7	0.875	54	70	81	105	3.50	14	7	3.50	12	7
#8	1.000	62	80	93	120	4.00	16	8	4.00	13	8
#9	1.128	70	90	104	136	5.75	19	10	5.75	15	10
#10	1.270	78	102	118	155	6.50	22	11	6.50	17	11
#11	1.410	87	113	130	170	7.00	24	12	7.00	19	12

BAR LAP & BENDING SCHEDULE, NOTE & DETAILS

NOTES

- ALL CONCRETE TO BE CLASS 4000. ALL REINFORCEMENT SHALL BE GRADE 60.
- ALL EXPOSED EDGES SHALL HAVE A 3/4 INCH CHAMFER.
- REBAR SHALL HAVE 2 INCHES OF CONCRETE COVER WHEN FORMED AND 3 INCHES OF CONCRETE COVER WHEN CONSTRUCTED AGAINST SOIL OR ROCK.
- ON UNEXPOSED JOINTS CLOSED CELL ROUND BUTYL CORD 1/4 INCH LARGER THAN THE JOINT AS MEASURED IN THE FIELD, SHALL BE INSTALLED.
- OMIT CAULK ON FACE BELOW GRADE.
- ROCK DOWEL SHALL BE SECURED WITH HILTI HIT RES500 ADHESIVE EPOXY.
- RETAINING WALL DESIGNED FOR EQUIVALENT FLUID PRESSURE OF 92 PSF/FT.
- ONE FOOT STICKUP OF RETAINING WALL ABOVE BACKFILL SHALL BE MAINTAINED TO PREVENT SOILS FROM INFILLING THE CHANNEL.
- THE RESIDENT SITE ENGINEER SHALL DETERMINE THE INCLINATION OF THE SLOPES ABOVE THE ROCKFALL CHANNEL OUTLET CHANNEL.
- TOOLED CONTRACTION JOINTS SHALL BE SPACED AT 10 FOOT INTERVALS FROM EXPANSION JOINTS, AND SEALED WITH SIKAFLEX 2C SL POLYURETHANE CAULK SEALANT OR APPROVED EQUAL.

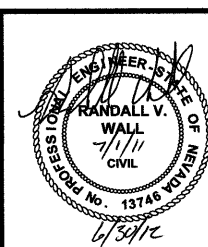
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6/17/11	GH		REVISION REVIEW	RS	MB	RW
2/25/11	GH		ISSUED FOR PERMITTING/CONSTRUCTION	RS	MB	RW

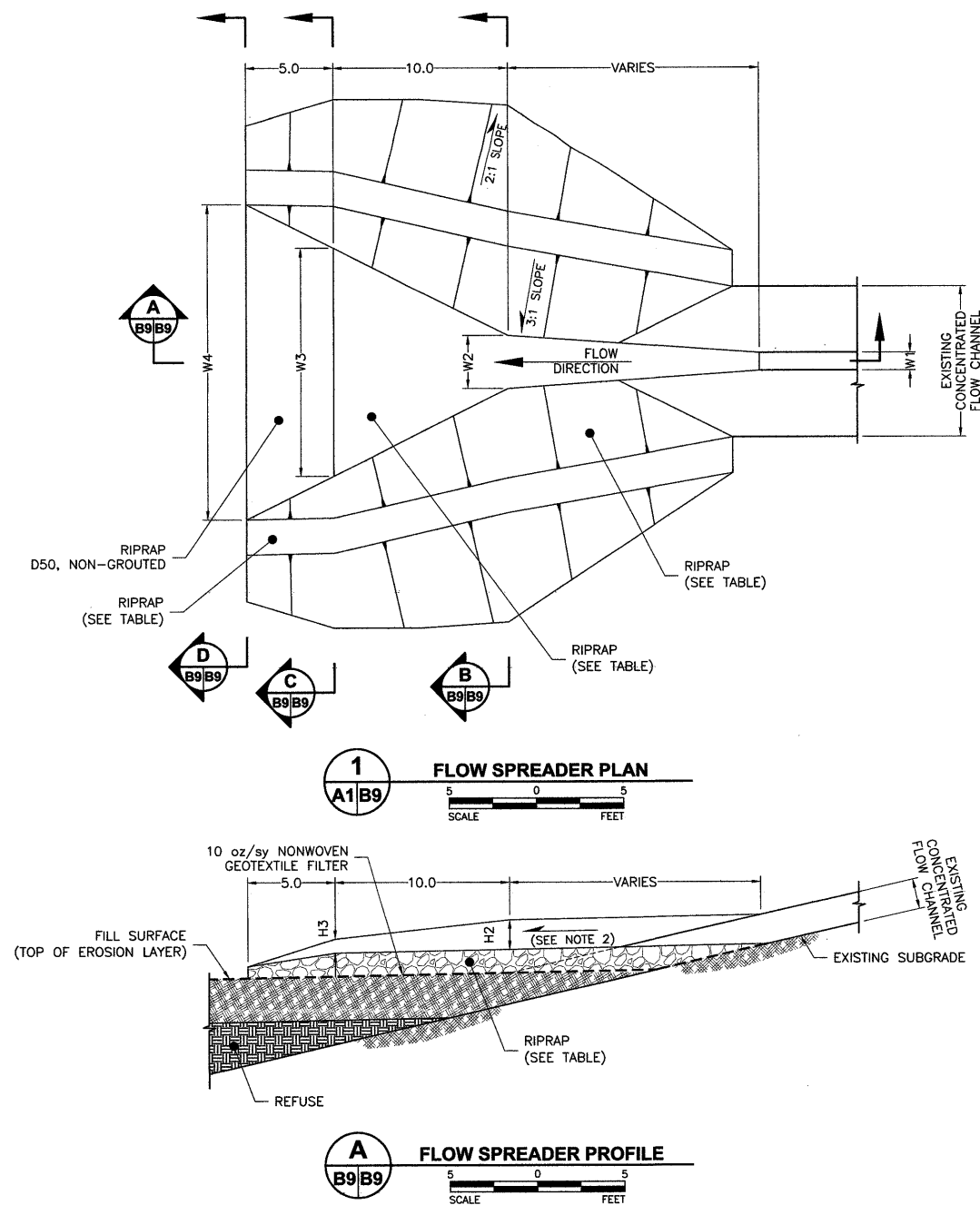


PROJECT
**REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA**

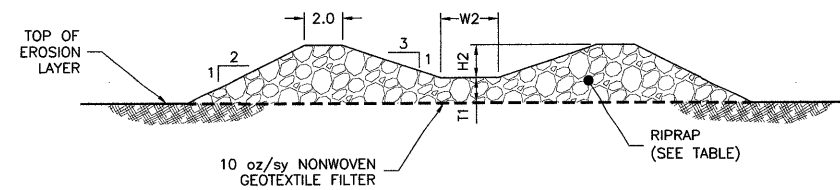
TITLE
ROCKFALL CHANNEL OUTLET DETAILS

DESIGN	JP	07/01/11	FILE No.093-97436-RF DETAIL
CADD	MGG	07/01/11	SCALE AS SHOWN REV. 5
CHECK	AN	07/01/11	
REVIEW	RW	07/01/11	

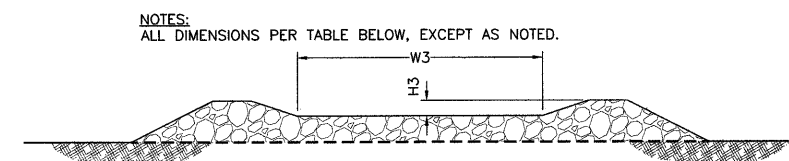




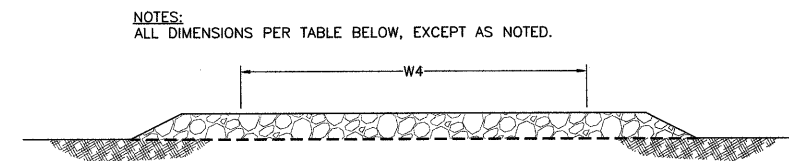
- NOTES:
1. FLOW SPREADERS WILL BE FIELD-FIT AT THE DIRECTION OF THE FIELD ENGINEER.
 2. MATCH EXISTING SLOPE OF FILL SURFACE (TOP OF EROSION LAYER).



B
FLOW SPREADER SECTION
B9/B9
SCALE 0 5 FEET



C
FLOW SPREADER SECTION
B9/B9
SCALE 0 5 FEET



D
FLOW SPREADER SECTION
B9/B9
SCALE 0 5 FEET

RIPRAP SIZE AND FLOW SPREADER SECTION DIMENSIONS

EPA Flow ID	Golder ID	Design d ₅₀ (in)	W1 (ft)	H1 (ft)	W2 (ft)	H2 (ft)	W3 (ft)	H3 (ft)	W4 (ft)	Thickness of rock (ft)
C-E-C5	C22	9 loose	14.5	1.3	17.0	1.3	22.0	1.1	27.0	1.5
C-E-C1A	C26A	6 grouted	40.0	1.3	45.3	1.3	50.3	1.1	55.3	1.0
C-W-C6	C32	6 grouted	1.0	1.7	2.6	1.7	7.6	1.1	12.6	1.0
C-W-C7	C33+C34	9 loose	17.5	1.3	18.5	1.3	23.5	1.0	28.5	1.5
S-W-C12/13	C40	11 loose	14.0	1.8	17.2	1.8	22.2	1.4	27.2	1.8
C-E-C22B	C9A	8 loose	26.0	1.4	29.9	1.4	34.9	1.2	39.9	1.3

7/1/11	RVW	RE-ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
2/25/11	RVW	ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK



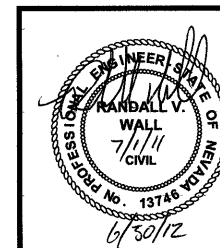
PROJECT
**REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA**

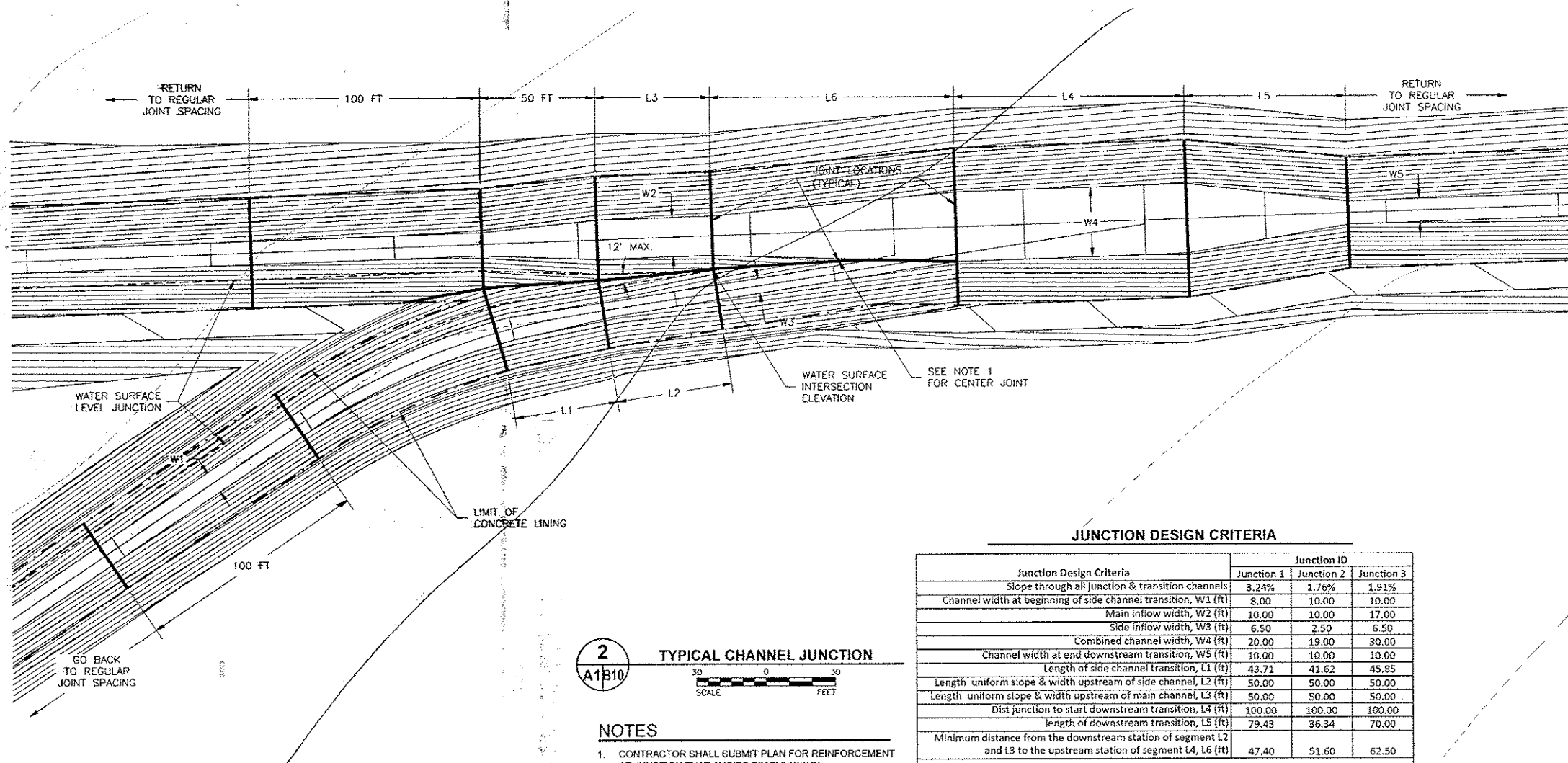
TITLE
SECTIONS AND DETAILS



PROJECT No.	093-97436	FILE No.	093-97436-DETAIL
DESIGN	JP	07/01/10	SCALE AS SHOWN REV. 5
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CHECK	AN	07/01/10	
REVIEW	RW	07/01/10	

B9



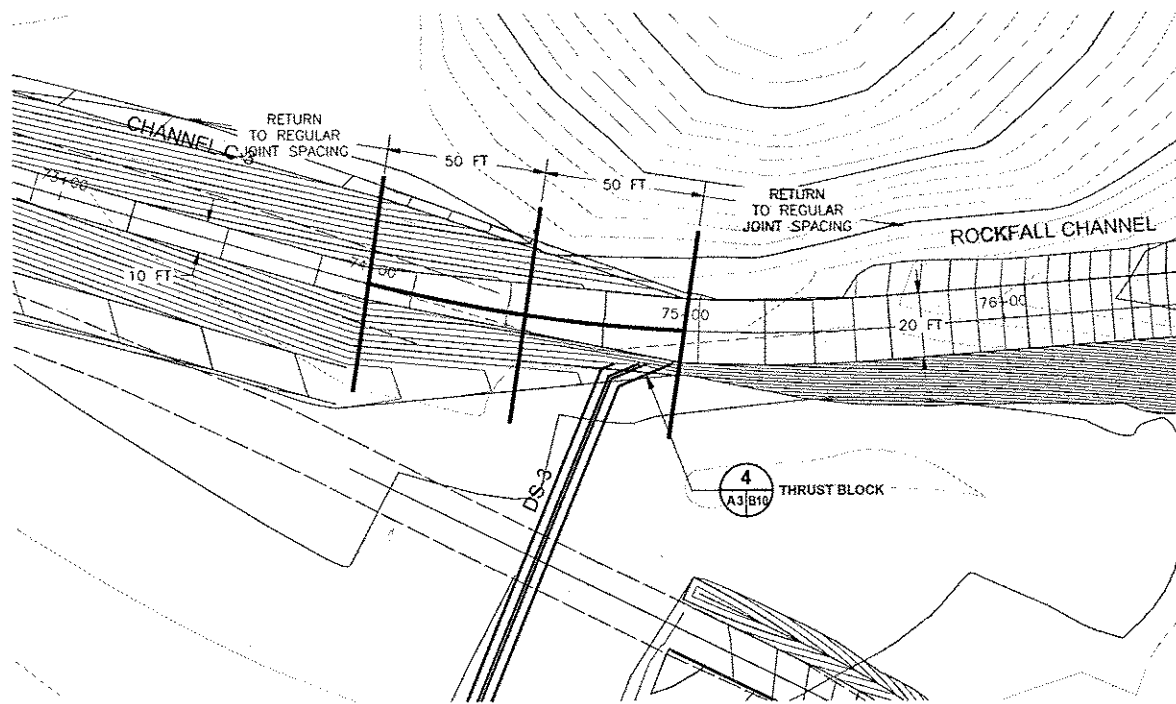


2
A1B10
TYPICAL CHANNEL JUNCTION

- NOTES**
1. CONTRACTOR SHALL SUBMIT PLAN FOR REINFORCEMENT AT JUNCTION THAT AVOIDS FEATHEREDGE.
 2. ALL JOINT SPACING ARE MAXIMUM VALUES.

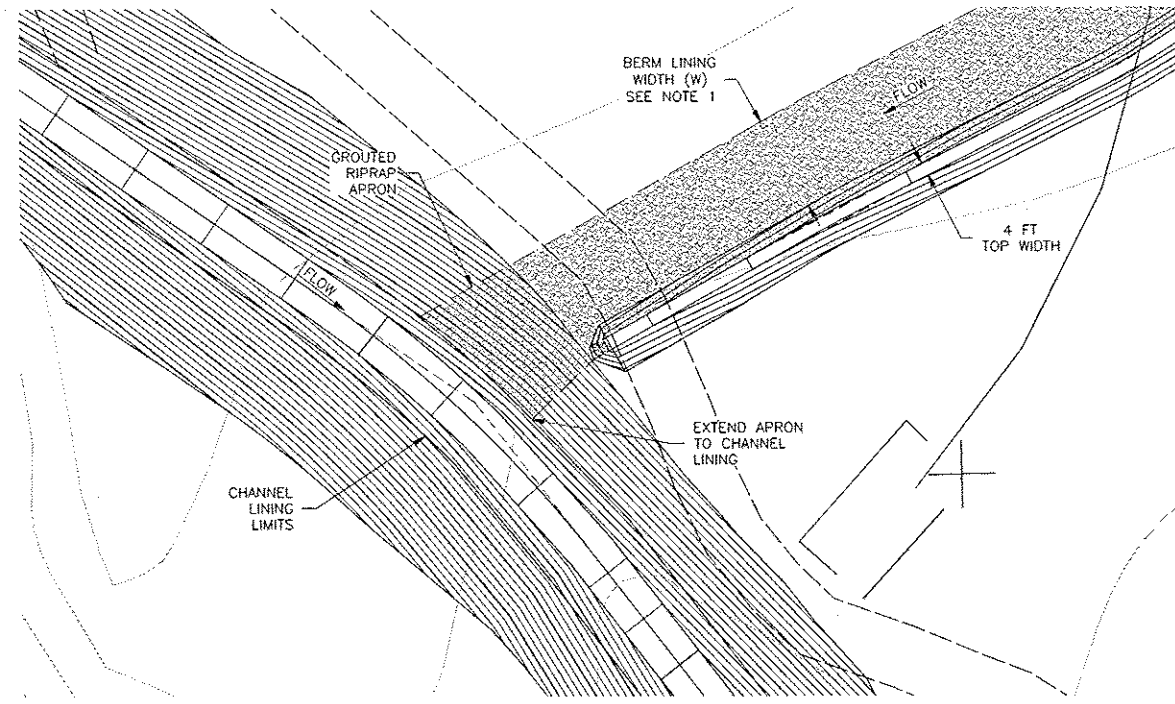
JUNCTION DESIGN CRITERIA

Junction Design Criteria	Junction ID		
	Junction 1	Junction 2	Junction 3
Slope through all junction & transition channels	3.24%	1.76%	1.91%
Channel width at beginning of side channel transition, W1 (ft)	8.00	10.00	10.00
Main inflow width, W2 (ft)	10.00	10.00	17.00
Side inflow width, W3 (ft)	6.50	2.50	6.50
Combined channel width, W4 (ft)	20.00	19.00	30.00
Channel width at end downstream transition, W5 (ft)	10.00	10.00	10.00
Length of side channel transition, L1 (ft)	43.71	41.62	45.85
Length uniform slope & width upstream of side channel, L2 (ft)	50.00	50.00	50.00
Length uniform slope & width upstream of main channel, L3 (ft)	50.00	50.00	50.00
Dist junction to start downstream transition, L4 (ft)	100.00	100.00	100.00
Length of downstream transition, L5 (ft)	79.43	36.34	70.00
Minimum distance from the downstream station of segment L2 and L3 to the upstream station of segment L4, L6 (ft)	47.40	51.60	62.50
Width tolerance (ft)	+/- 0.25	+/- 0.25	+/- 0.25
Longitudinal length tolerance (ft)	2.00	2.00	2.00
Slope Tolerance	+/- 0.20%	+/- 0.20%	+/- 0.20%



1
A1B10
TRAPEZOIDAL TO RECTANGULAR CHANNEL TRANSITION (C-3 TO ROCKFALL)

- NOTE:**
1. MAINTAIN 11.0' DEPTH TO STATION 75+00
 2. MAINTAIN CONSTANT SLOPE THROUGH TRANSITION



3
A1B10
TYPICAL GROUTED RIPRAP BERM APRON

- NOTE:**
1. BERM LINING WIDTH PROVIDED ON SHEET B7

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	R/W
8/19/11		R/W	RE-ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	R/W
7/11/11		R/W	RE-ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	R/W
6/17/11		R/W	ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	R/W
2/25/11		R/W	ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	R/W



REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA

SECTIONS AND DETAILS



PROJECT No.	093-97436	FILE No.	093-97436-DETAIL
DESIGN	JP	07/01/10	SCALE AS SHOWN
CADD	MGG	07/01/10	REV. 5
CHECK	AN	07/01/10	
REVIEW	RW	07/01/10	

B10

