

# AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

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 2. AMENDMENT/MODIFICATION NO.  
0005

 3. EFFECTIVE DATE  
2 September 2003

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY

CODE

CESPL-CT-E

7. ADMINISTERED BY (If other than Item 6)

CODE

CESPL-CO-AV

 Contracting Division  
USACE, Los Angeles District  
P.O. Box 352711  
Los Angeles, CA 90053-2325

 Tropicana Project Office  
4440 South Durango Drive  
Suite D  
Las Vegas, NV 89147

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

9A. AMENDMENT OF SOLICITATION NO.

DACW09-03-B-0005

9B. DATED (SEE ITEM 11)

9 June 2003

10A. MODIFICATION OF CONTRACTS/ORDER NO.

10B. DATED (SEE ITEM 13)

CODE

FACILITY CODE

## 11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

 The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

## 13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Section 00010, Bid Schedule (file name 000bs.pdf) has changed.

Section 01270 has changed.

No other changes.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

BY

(Signature of Contracting Officer)

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## SECTION 00010

## BID SCHEDULE

## PART 1 GENERAL

Note : Some of the lump sum and unit price items reference drawings and plans that utilize English units of measurements.

## 1.1 Bid Items

Item	Description	Quantity	Unit		
			Unit	Price	Amount
0001	TRAFFIC CONTROL	1.00	LS	\$____.____	\$____.____
0002	DIVERSION AND CONTROL OF WATER	1.00	LS	\$____.____	\$____.____
0003	CLEAR SITE AND REMOVE OBSTRUCTIONS	1.00	LS	\$____.____	\$____.____
0004	STRIP AND STOCKPILE TOPSOIL, BLM LANDS	2,655	m <sup>3</sup>	\$____.____	\$____.____
0005	EXCAVATION CHANNEL, NON BLM LAND	133,404	m <sup>3</sup>	\$____.____	\$____.____
0006	EXCAVATION CHANNEL, BLM LAND	10,792	m <sup>3</sup>	\$____.____	\$____.____
0007	EXCAVATION INLET STRUCTURE, BLM LAND	6,786	m <sup>3</sup>	\$____.____	\$____.____
0008	COMPACTED FILL, CHANNEL, NON BLM LAND	108,705	m <sup>3</sup>	\$____.____	\$____.____
0009	COMPACTED FILL, CHANNEL, BLM LAND	10,050	m <sup>3</sup>	\$____.____	\$____.____
0010	COMPACTED FILL, INLET STRUCTURE EMBANKMENT AND INVERT, BLM LAND	14,958	m <sup>3</sup>	\$____.____	\$____.____
0011	MISCELLANEOUS FILL, INLET STRUCTURE EMBANKMENT AND INVERT, BLM LAND	8,979	m <sup>3</sup>	\$____.____	\$____.____

Item	Description	Quantity	Unit	Unit	
				Price	Amount
0012	PLANT NURSERY AREA, TEMPORARY	1.00	LS	\$____.____	\$_____.____
0013	OVERBURDEN RHODES RANCH	19,991	m <sup>3</sup>	\$____.____	\$_____.____
0014	CONCRETE, CHANNEL INVERT SLAB	<b>3,235</b>	m <sup>3</sup>	\$____.____	\$_____.____
0015	CONCRETE, CHANNEL WALLS	<b>3,490</b>	m <sup>3</sup>	\$____.____	\$_____.____
0016	CONCRETE OVERFLOW STRUCTURE STA. 43+15.428	1.00	LS	\$____.____	\$_____.____
0017	CONCRETE OVERFLOW STRUCTURE STA. 40+68.000	1.00	LS	\$____.____	\$_____.____
0018	CONCRETE OVERFLOW STRUCTURE STA. 37+88.000	1.00	LS	\$____.____	\$_____.____
0019	CONCRETE OVERFLOW STRUCTURE STA. 31+04.220	1.00	LS	\$____.____	\$_____.____
0020	GROUTED RIPRAP	261	m <sup>3</sup>	\$____.____	\$_____.____
0021	REINFORCING STEEL	<b>605</b>	t	\$____.____	\$_____.____
0022	AGGREGATE BASE COURSE	1,975	t	\$____.____	\$_____.____
0023	ASPHALT CONCRETE PAVEMENT	1,280	t	\$____.____	\$_____.____
0024	WEEPHOLE SYSTEM	1.00	LS	\$____.____	\$_____.____
0025	RCB CHANNEL AND BELTWAY LATERAL CONFLUENCE STRUCTURE	1.00	LS	\$____.____	\$_____.____
0026	CHANNEL AND A PORTION OF BELTWAY LATERAL STRUCTURE	1.00	LS	\$____.____	\$_____.____
0027	RCB CHANNEL FRONTAGE ROAD	1.00	LS	\$____.____	\$_____.____
0028	RCB CHANNEL TIBERTI NORTH	1.00	LS	\$____.____	\$_____.____
0029	CHANNEL AND RHODES RANCH CONFLUENCE STRUCTURE	1.00	LS	\$____.____	\$_____.____

Item	Description	Quantity	Unit	Unit Price	Amount	
0030	CHANNEL AND A PORTION OF RHODES RANCH LATERAL STRUCTURE	1.00	LS	\$____.____	\$_____.____	
0031	RHODES RANCH LATERAL	1.00	LS	\$____.____	\$_____.____	
0032	RHODES RANCH LATERAL END	1.00	LS	\$____.____	\$_____.____	
0033	RCB CHANNEL RHODES RANCH	1.00	LS	\$____.____	\$_____.____	
0034	RCB CHANNEL WINDMILL ROAD THROUGH SHELBOURNE AVE	1.00	LS	\$____.____	\$_____.____	
0035	INVERT ACCESS RAMP 1	1.00	LS	\$____.____	\$_____.____	
0036	INVERT ACCESS RAMP 2	1.00	LS	\$____.____	\$_____.____	
0037	INVERT ACCESS RAMP 3	1.00	LS	\$____.____	\$_____.____	
0038	INLET STRUCTURE SOIL CEMENT ARMOR	2,800	m <sup>3</sup>	\$____.____	\$_____.____	
0039	PORTLAND CEMENT FOR SOIL CEMENT	438	t	\$____.____	\$_____.____	
0040	POZZOLAN FOR SOIL CEMENT	77	t	\$____.____	\$_____.____	
0041	INLET STRUCTURE OUTLET RCB	1.00	LS	\$____.____	\$_____.____	
0042	INLET STRUCTURE OUTLET TOWER	1.00	LS	\$____.____	\$_____.____	
0043	SIDE DRAIN, STA. 47+38.569 RT	1.372	1.00	LS	\$____.____	\$_____.____
0044	SIDE DRAIN, STA. 35+66.161 RT	0.762	1.00	LS	\$____.____	\$_____.____
0045	SIDE DRAIN, STA. 34+77.325 RT	0.762	1.00	LS	\$____.____	\$_____.____
0046	SIDE DRAIN, STA. 30+22.976 LT	0.610	1.00	LS	\$____.____	\$_____.____
0047	SIDE DRAIN, STA. 22+82.178 RT	0.610	1.00	LS	\$____.____	\$_____.____
0048	SIDE DRAIN, STA. 20+76.333 RT	0.914	1.00	LS	\$____.____	\$_____.____
0049	MANHOLES FOR RCB CONDUITS, CULVERTS, AND LATERALS	1.00	LS	\$____.____	\$_____.____	

Item	Description	Quantity	Unit	Unit Price	Amount
0050	ROAD DETOURS AT BELTWAY	1.00	LS	\$____.____	\$____.____
0051	EASTBOUND FRONTAGE ROAD REMOVAL AND RECONSTRUCTION	1.00	LS	\$____.____	\$____.____
0052	CHAIN LINK FENCE, 1.829 M HIGH 9 GAGE	1,553	m	\$____.____	\$____.____
0053	POST AND CABLE RAILING	4,758	m	\$____.____	\$____.____
0054	DOUBLE SWING GATES	5	ea	\$____.____	\$____.____
0055	PRE-EMERGENT HERBICIDE AND PIGMENTED DUST PALLIATIVE/SOIL STABILIZER ON NON-REVEGETATED AREAS OF INLET STRUCTURE AND CHANNEL	3.5	HA	\$____.____	\$____.____
0056	STATION MARKINGS	1.00	LS	\$____.____	\$____.____
0057	AS-BUILT DRAWINGS	1.00	LS	\$____.____	\$____.____
0058	LADDER SYSTEMS	1.00	LS	\$____.____	\$____.____
0059	SINGLE SWING GATES, MANWAY, 1.000 X 1.829	2	ea	\$____.____	\$____.____
0060	BASIN TRESPASS PREVENTION DEVICES - BOLLARDS	1.00	LS	\$____.____	\$____.____
0061	DURANGO DRIVE REMOVAL AND RECONSTRUCTION	1.00	LS	\$____.____	\$____.____
0062	PROVIDE PLANT STORAGE IRRIGATION DURING CONSTRUCTION	1.00	LS	\$____.____	\$____.____
0063	PROVIDE IRRIGATION FOR 1 YEAR AFTER CONSTRUCTION	1.00	LS	\$____.____	\$____.____
0064	ONE YEAR GUARANTEE ON LANDSCAPE WORK AT INLET STRUCTURE	1.00	LS	\$____.____	\$____.____
0065	TORTOISE FENCE, INLET STRUCTURE	2,000	m	\$____.____	\$____.____
0066	SALVAGE, STORE, AND MAINTAIN PLANTS - CACTUS	1	ea	\$____.____	\$____.____

Item	Description	Quantity	Unit	Unit Price	Amount
0067	SALVAGE, STORE, AND MAINTAIN PLANTS - CREOSOTE BUSH	20	ea	\$____.____	\$_____.____
0068	SALVAGE, STORE, AND MAINTAIN PLANTS - WHITE BURSAGE	20	ea	\$____.____	\$_____.____
0069	SALVAGE, STORE, AND MAINTAIN PLANTS - MOHAVE YUCCA	6	ea	\$____.____	\$_____.____
0070	TRANSPLANT CACTUS	1	ea	\$____.____	\$_____.____
0071	TRANSPLANT CREOSOTE BUSH	20	ea	\$____.____	\$_____.____
0072	TRANSPLANT WHITE BURSAGE	20	ea	\$____.____	\$_____.____
0073	TRANSPLANT MOHAVE YUCCA	6	ea	\$____.____	\$_____.____
0074	PLACE TOPSOIL TO FINISH GRADE, DOWNSTREAM SURFACE INLET STRUCTURE EMBANKMENT	2,655	m <sup>3</sup>	\$____.____	\$_____.____
0075	SEEDING AND FERTILIZATION, DOWNSTREAM SURFACE INLET STRUCTURE EMBANKMENT	4.1	HA	\$____.____	\$_____.____
0076	PROVIDE BROWSE PROTECTION	40	ea	\$____.____	\$_____.____
0077	SIMULATED DESERT VARNISH ROCK COLOR MITIGATION	1.00	LS	\$____.____	\$_____.____
0078	SOIL SAMPLING AND TESTING FOR FERTILITY	4	ea	\$____.____	\$_____.____
0079	PIGMENTED DUST PALLIATIVE/SOIL STABILIZER ONLY ON REVEGETATED AREAS	4.1	HA	\$____.____	\$_____.____
0080	PROVIDE CHANNEL EXCAVATION SHORING ON WEST SIDE OF EXCAVATION FROM STA. 35+57.644 TO STA. 35+02.853 AND STA. 34+86.656 TO STA. 34+40.000 TO PROTECT STREET IMPROVEMENTS	1.00	LS	\$____.____	\$_____.____

Item	Description	Quantity	Unit	Price	Amount
0081	PROVIDE CHANNEL EXCAVATION SHORING ON WEST SIDE OF EXCAVATION FROM STA. 34+40.000 TO STA. 34+16.498 AND ON EAST SIDE OF EXCAVATION FROM STA. 34+30.000 TO STA. 33+02.481 TO PROTECT STREET AND LANDSCAPING IMPROVEMENTS	1.00	LS	\$____.____	\$_____.____
0082	RHODES RANCH ENTRY PHASE 1 DETOUR	1.00	LS	\$____.____	\$_____.____
0083	RHODES RANCH ENTRY PHASE 2 DETOUR	1.00	LS	\$____.____	\$_____.____
0084	RHODES RANCH ENTRY REMOVAL AND RECONSTRUCTION	1.00	LS	\$____.____	\$_____.____
0085	DURANGO DRIVE ROAD CLOSURE - ROBINDALE ROAD TO WIGWAM AVENUE	1.00	LS	\$____.____	\$_____.____
0086	RCB CHANNEL UNDER BELTWAY ON RAMP	1.00	LS	\$____.____	\$_____.____
0087	ORNAMENTAL METAL FENCING	1,236.0	M	\$____.____	\$_____.____
0088	ORNAMENTAL METAL FENCING GATES	2	EA	\$____.____	\$_____.____
0089	UTILITY CROSSING ITEMS	1.00	LS	\$____.____	\$_____.____
0090	OUTLET CONDUIT SIDE DRAIN STRUCTURE, STA. 51+03.000 RT 0.910 x 0.910	1.00	LS	\$____.____	\$_____.____
0091	1.829 M x 1.524 M SIDE DRAIN STRUCTURE, STA. 13+40.000 LT	1.00	LS	\$____.____	\$_____.____
0092	WALL TRANSITION STRUCTURE STA. 49+00.000 TO STA. 48+40.000	1.00	LS	\$____.____	\$_____.____
0093	WALL TRANSITION STRUCTURE STA. 43+30.730 TO STA. 43+23.130	1.00	LS	\$____.____	\$_____.____
0094	WALL TRANSITION STRUCTURE STA. 37+46.980 TO STA. 37+35.580	1.00	LS	\$____.____	\$_____.____

Item	Description	Quantity	Unit	Unit	
				Price	Amount
0095	WALL TRANSITION STRUCTURE STA. 33+65.000 TO STA. 33+59.600	1.00	LS	\$____.____	\$_____.____
0096	WALL TRANSITION STRUCTURE STA. 30+29.440 TO STA. 30+18.420	1.00	LS	\$____.____	\$_____.____
0097	WALL TRANSITION STRUCTURE STA. 22+84.000 TO STA. 22+71.300	1.00	LS	\$____.____	\$_____.____
0098	WALL TRANSITION STRUCTURE STA. 16+52.700 TO STA. 16+40.000	1.00	LS	\$____.____	\$_____.____
0099	WALL TRANSITION STRUCTURE STA. 15+70.000 TO STA. 15+57.300	1.00	LS	\$____.____	\$_____.____
0100	WALL TRANSITION STRUCTURE STA. 12+80.000 TO STA. 12+67.938	1.00	LS	\$____.____	\$_____.____
0101	UTILITY MARKERS	26	EA	\$____.____	\$_____.____
0102	CONCRETE OVERFLOW STRUCTURE STA. 17+04.885	1.00	LS	\$____.____	\$_____.____
0103	ADJUST SEWER MANHOLE FRAMES AND COVERS BETWEEN STATION 43+30.730 THROUGH STATION 37+00.000	10	EA	\$____.____	\$_____.____
0104	RCB CHANNEL LOUGHTON POWERS	1.00	LS	\$____.____	\$_____.____
0105	RCB CHANNEL BADURA	1.00	LS	\$____.____	\$_____.____
0106	OVERBURDEN RHODES RANCH ENTRYWAY	5,028	m <sup>3</sup>	\$____.____	\$_____.____
0107	WALL TRANSITION STRUCTURE STA. 21+15.700 TO STA. 21+03.000	1.00	LS	\$____.____	\$_____.____
0108	PROTECT IN-PLACE ARLINGTON RANCH SEWER LINE	1.00	LS	\$____.____	\$_____.____
0109	ADJUST ARLINGTON RANCH SEWER MANHOLES	1.00	LS	\$____.____	\$_____.____

Item	Description	Quantity	Unit	Unit Price	Amount	
0110	CHAIN LINK FENCE, 1.219 M HIGH	684	m	\$____.____	\$_____.____	
0111	WALL TRANSITION STRUCTURE STA. 17+90.000 TO STA. 17+80.900	1.00	LS	\$____.____	\$_____.____	
0112	RCB CHANNEL TIBERTI SOUTH	1.00	LS	\$____.____	\$_____.____	
0113	SINGLE SWING GATES, 1.000 X 1.219	6	ea	\$____.____	\$_____.____	
0114	BELTWAY LATERAL TRANSITIONAL RCB STRUCTURE AT DURANGO DRIVE	1.00	LS	\$____.____	\$_____.____	
0115	ORNAMENTAL METAL FENCE GATES, SINGLE SWING, 1.000 X 1.800	6	ea	\$____.____	\$_____.____	
0116	CHAIN LINK FENCE, 1.829 M HIGH 11 GAGE	899	m	\$____.____	\$_____.____	
<b>0117</b>	<b>REMOVE, SALVAGE AND REPLACE FENCE</b>	<b>536</b>	<b>m</b>	<b>\$____.____</b>	<b>\$_____.____</b>	
0118	SIDE DRAIN, STA. 44+20.000 RT	0.610	1.00	LS	\$____.____	\$_____.____
0119	SIDE DRAIN, STA. 44+20.000 LT	0.610	1.00	LS	\$____.____	\$_____.____
0120	SIDE DRAIN, STA. 39+40.000 LT	0.610	1.00	LS	\$____.____	\$_____.____
0121	SIDE DRAIN, STA. 36+20.000 LT	0.610	1.00	LS	\$____.____	\$_____.____
0122	SIDE DRAIN, STA. 12+00.000 RT	0.610	1.00	LS	\$____.____	\$_____.____
<b>TOTAL ESTIMATED AMOUNT</b>				<b>\$_____.</b>	<b>_____.</b>	

Abbreviations:

m = meter  
m<sup>3</sup> = cubic meter  
m<sup>2</sup> = square meter  
t = metric ton (1000 kilograms)  
ea = each  
LS = lump sum  
HA = hectare

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  - 1.47.2 Payment.
- 1.48 BASIN TRESPASS PREVENTION DEVICES - BOLLARDS (Bid Item 0060).
- 1.49 DURANGO DRIVE REMOVAL AND RECONSTRUCTION (Bid Item 0061)
- 1.50 PROVIDE PLANT STORAGE IRRIGATION DURING CONSTRUCTION (Bid Item 0062)
- 1.51 PROVIDE IRRIGATION FOR ONE YEAR AFTER CONSTRUCTION (Bid Item 0063)
- 1.52 ONE YEAR GUARANTEE ON LANDSCAPE WORK AT INLET STRUCTURE (Bid Item 0064)
- 1.53 TORTOISE FENCE, INLET STRUCTURE (Bid Item 0065)
  - 1.53.1 Measurement
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- 1.54 SALVAGE, STORE, AND MAINTAIN PLANTS (Bid Items 0066 - 0069)
  - 1.54.1 Measurement
  - 1.54.2 Payment
- 1.55 TRANSPLANT PLANT MATERIALS (Bid Items 0070 - 0073)
  - 1.55.1 Measurement
  - 1.55.2 Payment
- 1.56 PLACE TOPSOIL TO FINISH GRADE, DOWNSTREAM SURFACE INLET STRUCTURE EMBANKMENT (Bid Item 0074)
  - 1.56.1 Measurement
  - 1.56.2 Payment
- 1.57 SEEDING AND FERTILIZATION, DOWNSTREAM SURFACE INLET STRUCTURE EMBANKMENT (Bid Item 0075)
  - 1.57.1 Measurement
  - 1.57.2 Payment
- 1.58 PROVIDE BROWSE PROTECTION (Bid Item 0076)
- 1.59 SIMULATED DESERT VARNISH ROCK COLOR MITIGATION (Bid Item 0077)
  - 1.59.1 Measurement
  - 1.59.2 Payment
- 1.60 SOIL SAMPLING AND TESTING FOR FERTILITY (Bid Item 0078)
  - 1.60.1 Measurement
  - 1.60.2 Payment
- 1.61 PIGMENTED DUST PALLIATIVE/SOIL STABILIZER ONLY ON REVEGETATED AREAS (Bid Item 0079)
  - 1.61.1 Measurement
  - 1.61.2 Payment
- 1.62 PROVIDE CHANNEL EXCAVATION SHORING ON WEST SIDE OF EXCAVATION FROM STA. 35+57.644 TO STA. 35+02.853 AND STA. 34+86.656 TO STA.

- 34+40.000 TO PROTECT STREET IMPROVEMENTS (Bid Item 0080))
- 1.63 PROVIDE CHANNEL EXCAVATION SHORING ON WEST SIDE OF EXCAVATION FROM STA. 34+40.000 TO STA. 34+16.498 AND ON EAST SIDE OF EXCAVATION FROM STA. 34+30.000 TO STA. 33+02.481 TO PROTECT STREET AND LANDSCAPING IMPROVEMENTS (Bid Item 0081)1)
  - 1.64 RHODES RANCH ENTRY PHASE 1 DETOUR (Bid Item 0082).
  - 1.65 RHODES RANCH ENTRY PHASE 2 DETOUR (Bid Item 0083).
  - 1.66 RHODES RANCH ENTRY REMOVAL AND RECONSTRUCTION (Bid Item 0084).
  - 1.67 DURANGO DRIVE ROAD CLOSURE - ROBINDALE ROAD TO WIGWAM AVENUE (Bid Item 0085).
  - 1.68 RCB CHANNEL UNDER BELTWAY ON RAMP (Bid Item 0086).
  - 1.69 ORNAMENTAL METAL FENCING (Bid Item 0087)
    - 1.69.1 Measurement
    - 1.69.2 Payment
  - 1.70 ORNAMENTAL METAL FENCING GATES (Bid Item 0088).
    - 1.70.1 Measurement
    - 1.70.2 Payment.
  - 1.71 UTILITY CROSSING ITEMS (Bid Item 0089).
  - 1.72 OUTLET CONDUIT SIDE DRAIN STRUCTURE, STA. 51+03.000 RT (Bid Item 0090).
  - 1.73 1.829 M x 1.524 M SIDE DRAIN STRUCTURE, STA. 13+40.000 LT (Bid Item 0091).
  - 1.74 WALL TRANSITION STRUCTURE(S) (Bid Items 0092, 0093, 0094, 0095, 0096, 0097, 0098, 0099, 0100, 0107, 0111)
  - 1.75 UTILITY MARKERS (Bid Item 0101).
    - 1.75.1 Measurement
    - 1.75.2 Payment.
  - 1.76 ADJUST SEWER MANHOLE FRAMES AND COVERS (Bid Item 0103)
  - 1.77 RCB CHANNEL LOUGHTON POWERS (Bid Item 0104).
  - 1.78 RCB CHANNEL BADURA (Bid Item 0105).
  - 1.79 OVERBURDEN RHODES RANCH ENTRYWAY (Bid Item 0106).
    - 1.79.1 Measurement
    - 1.79.2 Payment
  - 1.80 PROTECT IN-PLACE ARLINGTON RANCH SEWER LINE (Bid Item 0108)
  - 1.81 ADJUST ARLINGTON RANCH SEWER MANHOLES (Bid Item 0109)
  - 1.82 CHAIN LINK FENCE, 1.219 M HIGH (Bid Item 0110).
    - 1.82.1 Measurement.
    - 1.82.2 Payment.
  - 1.83 RCB CHANNEL TIBERTI SOUTH (Bid Item 0112).
  - 1.84 SINGLE SWING GATES, 1.000 X 1.219 (Bid Item 0113).
    - 1.84.1 Measurement
    - 1.84.2 Payment.
  - 1.85 BELTWAY LATERAL TRANSITIONAL RCB STRUCTURE AT DURANGO DRIVE (Bid Item 0114).
  - 1.86 ORNAMENTAL METAL FENCE GATES, SINGLE SWING, 1.000 X 1.800 (Bid Item 0115).
    - 1.86.1 Measurement
    - 1.86.2 Payment.
  - 1.87 CHAIN LINK FENCE, 1.829 M HIGH, 11 GAGE (Bid Item 0116).
    - 1.87.1 Measurement.
    - 1.87.2 Payment.
  - 1.88 PLANT NURSERY AREA, TEMPORARY (Bid Item 0012).
  - 1.89 REMOVE, SALVAGE AND REPLACE FENCE (Bid Item 0117).
    - 1.89.1 Measurement.

1.89.2 Payment.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

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## SECTION 01270

## MEASUREMENT AND PAYMENT

## PART 1 GENERAL

## 1.1 REFERENCES (NOT USED)

## 1.2 CONTRACT PRICE AND PAYMENT

The contract price and payment shall constitute full compensation as stated in the Contract Clause, CONTRACT PRICES - BIDDING SCHEDULES, for completion of the work. No separate payment will be made for any material or work necessary to complete the work that is not specifically mentioned, such materials and work shall be considered incidental to all bid items. As stated in Contract Clause, SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION, the word "provided" shall be understood to mean "furnished and installed" when used in this section or elsewhere in the technical sections.

## 1.3 LUMP SUM PAYMENT ITEMS

Payment items for the work of this contract for which contract lump sum payments will be made are listed in the BIDDING SCHEDULE and described below. All costs for items of work, which are not specifically mentioned to be included in a particular lump sum or unit price payment item, shall be included in the listed lump sum item most closely associated with the work involved. The lump sum price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for which separate payment is not otherwise provided. Some of the lump sum payment items reference drawings and plans that utilize english units of measurements. Base bid items are limited to channel facilities North of Warm Spring's.

## 1.4 UNIT PRICE PAYMENT ITEMS

Payment items for the work of this contract on which the contract unit price payments will be made are listed in the BIDDING SCHEDULE and described below. The unit price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for each of the unit price items. Some of the unit price payment items reference drawings and plans that utilize english units of measurements. Base bid items are limited to channel facilities North of Warm Spring's.

## 1.5 TRAFFIC CONTROL (Bid Item 0001)

Payment for Traffic Control will be made at the applicable contract price, which payment shall constitute full compensation for traffic control

including but not limited to earthwork and grading, construction and removal of temporary roadways; providing temporary and permanent safety barriers; providing traffic warning and control signs and lighting; stripping; flag men as required, except where covered under other bid items.

1.6 DIVERSION AND CONTROL OF WATER (Bid Item 0002).

Payment for Diversion and Control of Water will be made at the applicable contract price, which payment shall constitute full compensation for maintaining the work area in a dry condition.

1.7 CLEAR SITE AND REMOVE OBSTRUCTIONS (Bid Item 0003).

Payment for Clear Site and Remove Obstructions shall include all costs for clearing, removal, replacement, and restoration work (except work by others) including all existing obstructions within the construction work area, except for clearing, removal, replacement and restoration work specifically specified in other bid items throughout this project. Except as otherwise specified, payment for clearing and removal work includes applicable earthwork; filling holes; removal of abandoned utility lines; removal of existing surface trash and debris, including trees and vegetation and debris piles (consisting of construction debris and/or dumped soils, dumped gravels, dumped rocks and dumped boulders), including vehicle debris (vehicle bodies and/or vehicle parts) and appliance debris (whole and/or parts), and grubbing from within the Channel right-of-way and temporary construction easement; including removal of existing riprap rock and salvaging riprap rock for reuse unless it is paid for under another bid item, removal of existing filter fabric and or geotextile fabric under riprap in existing beltway channel, removal of existing grouted riprap rock as shown on the drawings; removal of existing concrete pavement and concrete curb and gutter and plantmix bituminous surface (pbs) as shown on the drawings; including sawcutting and removal of necessary portion of the existing precast 1.829 M x 1.524 M (6' x 5') RCB structure at approximate Sta. 13+40.000 (left side of channel looking upstream) to allow for placement of new channel and side drain structure; including sawcutting and removal of necessary portion (approximately 1.83 meters) of the existing Beltway Lateral Channel to Beltway Lateral Channel Station 12+33.13 to allow for placement of Beltway Lateral Transitional Structure at Durango Drive; removal, protection, replacement or restoration of existing structures and features indicated and disposal of all materials. Payment for Clear Site and Remove Obstructions will be made at the applicable contract price, which payment shall constitute full compensation for clearing, obstruction removal, and protection work, complete.

1.8 STRIP AND STOCKPILE TOPSOIL, BLM LANDS (Bid Item 0004)

Payment for strip and stockpile topsoil will be made at the applicable contract price per cubic meter for the basin site, which payment shall constitute full compensation for stripping and stockpiling specified surface soils, including clearing of grasses and weeds, debris and roots, after plant salvaging operations, as indicated in the specifications. The BLM lands are south of Sta. 47+38.620.

1.9 EXCAVATION.

1.9.1 EXCAVATION CHANNEL, NON BLM LAND (Bid Item 0005), EXCAVATION CHANNEL, BLM LAND (Bid Item 0006), EXCAVATION INLET STRUCTURE, BLM LAND (Bid Item 0007))

1.9.1.1 Measurement

A survey of the site shall be made by the Contractor prior to commencement of work, and all measurements will be based on this survey without regard to any changes in the site that may be made between the excavation lines and grades indicated on the drawings or staked in the field and the ground surfaces as indicated by the above mentioned survey. Measurement shall be based on the difference between surveyed original grade and the grade and slope of the theoretical cross sections indicated on the drawings. The actual slopes as excavated may be greater or less than those indicated or staked, depending on the materials excavated and methods used in performing the work, but such alterations shall not change the measurement for payment from the original lines as specified herein. The quantity of directed excavation necessary for the removal of unsatisfactory foundation material as specified shall be included in the measurement of the excavation where the unsatisfactory soils are encountered. Quantities will be computed in cubic meters by the average end area method and the planimeter will be considered a precise instrument for measurement of plotted cross sections. The Contractor has the option of using computer methods for quantity estimations, but all computer methods of quantity estimations shall be approved by the Contracting Officer. All excavation outside of excavation lines shown on the drawings will be considered as being for convenience of the Contractor. The BLM lands are south of Sta. 47+38.620.

1.9.1.2 Payment

Payment for excavation will be made at the applicable contract price, which payment shall constitute full compensation for excavation for the inlet structure embankment and spillway/transition structure foundations, inspection trenches, inlet structure invert, channels, roads and other areas as indicated on the drawings including shoring, blasting, rock excavation, and cemented alluvium excavation; shaping and trimming of areas to receive concrete or embankment material, soil cement, loading, stockpiling, crushing, processing, hauling, and dumping suitable materials for fills for the inlet structure embankments, channels, inlet structure spillway/ transition, and backfill for structures and pipes; and loading, stockpiling, hauling, placing and grading excavated materials in the graded basin areas. Excess BLM material shall be placed and graded at areas downstream of the basin on BLM property as directed by the Contracting Officer. Excess channel excavation material with certification documents shall be imported onto, placed, graded and compacted as required for areas of the basin on BLM property. Payment will not be included for excavation (including shoring) outside the excavation limits indicated on the drawings or staked in the field, and other earthwork requirements for which separate payments are provided. The BLM lands are south of Sta. 47+38.620.

1.9.1.3 Excavation, Inlet Structure

Payment for excavation, Inlet Structure will be made at the applicable

contract unit price per cubic meter, which payment shall constitute full compensation for excavation as indicated on the drawings including foundation preparation for any overexcavation for the inlet structure embankment. Payment for excavation, inlet structure shall not include the quantity included in clearing and grubbing and in strip and stockpile topsoil and other earthwork requirements for which separate payments are provided.

#### 1.9.1.4 Excavation, Channel

Payment for excavation, channel will include excavations for spillway/transition and spillway/transition cutoff walls, and will be made at the applicable contract unit price per cubic meter, which payment shall constitute full compensation for excavation and haul and disposal of excess material. The BLM lands are south of Sta. 47+38.620.

#### 1.9.1.5 Subgrade or Foundation Preparation

No separate payment will be made for subgrade or foundation preparation, including required shaping and cleaning of bedrock abutments and placement of mortar or concrete as necessary, and all costs in connection therewith shall be included in the contract prices for excavation or the items to which the work applies.

#### 1.9.1.6 Unsatisfactory Soils

No separate payment will be made for the excavation, hauling, and disposal of unsatisfactory soils. When such excavation is directed, payment therefore will be included in the applicable contract price for the items of work under which the unsuitable soils are encountered. When there is no applicable contract item an adjustment will be made.

#### 1.9.1.7 Excavation for Structures

No separate payment will be made for excavation for structures such as manholes, outlet structures, stilling wells, and headwalls. All costs therefore shall be included in the applicable contract item to which the work applies.

#### 1.9.1.8 Trenches

No separate payment will be made for the excavation and disposal of pipe trenches. All costs therefore shall be included in the applicable contract prices for the items to which the work applies.

#### 1.9.1.9 Shoring

Except where otherwise directed within specific bid items, no separate payment will be made for shoring. The Contractor shall be responsible for method of construction and the use of shoring, stable slope cuts, or other trench safety requirements.

#### 1.9.1.10 Excavation for Utilities

No separate payment will be made for excavation for utilities. All costs therefore shall be included in the applicable contract item to which the work applies.

#### 1.10 FILLS

##### 1.10.1 Measurement.

Measurement for fills will be made between the excavation and structure lines and the fill limit lines, or between the ground lines and fill lines, as indicated or staked in the field. Quantities will be computed in cubic meters by the average end area method and the planimeter will be considered a precise instrument for measuring plotted cross sections. The Contractor has the option of using computer methods of quantity estimation, but all computer methods of quantity estimation shall be approved by the Contracting Officer.

##### 1.10.2 Payment.

###### 1.10.2.1 COMPACTED FILL, CHANNEL, NON BLM LAND (Bid Item 0008).

Payment for Compacted Fill, Channel, non BLM Land will be made at the applicable contract price, which payment shall constitute full compensation for shaping, grading, filling behind the channel walls including access ramps, over covered channels, and other areas shown on the drawings, including at disposal site shown on drawings, and compacting the fill, complete. Payment will not be included for fills outside the fill limits indicated on the drawings or staked in the field, and other fill requirements for which separate payments are provided.

###### 1.10.2.2 COMPACTED FILL, CHANNEL, BLM LAND (Bid Item 0009).

Payment for Compacted Fill, Channel, BLM Land will be made at the applicable contract price, which payment shall constitute full compensation for shaping, grading, filling behind the channel walls including access ramps, over covered channels, and other areas shown on the drawings, and compacting the fill, complete, including processing of certification form for material import onto BLM Lands as necessary. Payment will not be included for fills outside the fill limits indicated on the drawings or staked in the field, and other fill requirements for which separate payments are provided. The BLM lands are south of Sta. 47+38.620.

###### 1.10.2.3 COMPACTED FILL, INLET STRUCTURE EMBANKMENT AND INVERT, BLM LAND (Bid Item 0010)

Payment for Compacted Fill, Inlet Structure Embankment and Invert, BLM Land, will be made at the applicable contract unit price per cubic meter, which payment shall constitute full compensation for placing, shaping, grading, foundation preparation backfill, and compacting the fill, including settlement monuments and related work, complete, including processing of certification form for material import onto BLM Lands as necessary.

1.10.2.4 MISCELLANEOUS FILL, INLET STRUCTURE EMBANKMENT AND INVERT, BLM LAND (Bid Item 0011)

Payment for Miscellaneous Fill, Inlet Structure Embankment and Invert, BLM Land, will be made at the applicable contract unit price per cubic meter, which payment shall constitute full compensation for placing, shaping, and grading the fill, complete, including processing of certification form for material import onto BLM Lands as necessary.

1.10.2.5 Fill or Backfill Around Structures.

No separate payment will be made for fill or backfill around structures. All such costs shall be included in the applicable contract prices for structure items to which the work applies.

1.10.2.6 Trenches.

No separate payment will be made for backfilling for utilities, side drains and confluences. All costs in connection therewith shall be included in the contract prices for items to which the work applies.

1.10.2.7 Subgrade Preparation.

No separate payment will be made for subgrade preparation and all costs in connection therewith shall be included in the contract prices for items to which the work applies.

NOTE : Requirements for Bid Item 0012 are in Paragraph 1.88

1.11 OVERBURDEN RHODES RANCH (Bid Item 0013).

1.11.1 Measurement

Measurement for overburden Rhodes Ranch will be made on the basis of the actual volume, in cubic meters, as follows, between Station 37+21.439 through Station 43+30.730.

The overburden Rhodes Ranch quantity shall be surveyed and computed based on the following. The survey shall capture the existing hinge point elevations along the east side of the overburden area as shown on drawing sheet C21, Channel Typical Section, "Sta. 37+21.439 to Sta. 43+30.73". These existing hinge point elevations shall be extended level (same elevation) to the west edge of the TCE limits to create a bottom for the overburden template. This template shall include a 1:1 slope up to daylight at and within the west TCE limit. This bottom of overburden shall then be compared with the actual existing finish grade elevations for the same area to create a volume of overburden. Survey data and calculations shall be submitted to the Contracting Officer prior to removing any overburden.

1.11.2 Payment

Payment for Overburden Rhodes Ranch will be made at the applicable contract price per cubic meter and includes handling of overburden material at identified Rhodes Ranch overburden site which includes overburden material on flood easement on West side of Durango Drive between station 37+21.439 through station 43+30.73 indicated herein; and shall be considered full payment for all work including surveying for quantity verification, stockpiling and grading to final grade lines, or hauling and processing to be used as compacted fill elsewhere excluding on BLM land, complete.

1.12 CONCRETE.

1.12.1 Measurement.

Measurement of concrete will be made on the basis of the actual volume, in cubic meters, of concrete within the pay lines of the concrete invert slab, walls, top slab, and slope protection as shown on the drawings.

Measurement of concrete placed against the sides of any excavation without the use of intervening forms will be made only within the pay lines of the structures. No deductions will be made for rounded or beveled edges or space occupied by metalwork, nor voids or embedded items which are either less than 0.15 cubic meter in volume or one-tenth of square meter in cross section. Concrete placed in items of work other than those specifically mentioned above, and concrete wasted or used for the convenience of the Contractor will not be included in measurement for payment.

1.12.2 PAYMENT FOR CONCRETE ITEMS.

Payment for the concrete items will be made at the applicable contract prices for the various items of the schedule, which payments shall constitute full compensation for labor, materials (except reinforcing steel for which separate payment is provided), joint sealant, forming including forming for wall variations at overflow structure locations, furnishing concrete, placing concrete, finishing concrete, curing concrete, and for all equipment and tools to complete the concrete work. Embedded items shall be included in the cost of the concrete except when other payment is specifically provided. No payment will be made for concrete, as such, which is placed in structures for which payment is made on a lump sum basis.

1.12.2.1 CONCRETE, OPEN CHANNEL INVERT SLAB (Bid Item 0014).

Payment for concrete, open channel invert slab will include concrete placed in all open channel invert slab and for the inlet structure spillway invert slab, except for concrete inverts in structures for which payment is made on a lump sum basis, and payment will be made at the applicable contract unit price per cubic meter, which payment shall constitute full compensation for all concrete (including all necessary items described in Paragraph "PAYMENT FOR CONCRETE ITEMS" above) placed for the invert slab of the open channel and inlet structure spillway, keys, starter walls, and cut-off walls, complete.

1.12.2.2 CONCRETE, OPEN CHANNEL WALLS (Bid Item 0015).

Payment for concrete, open channel walls will include concrete placed in all open channel walls and for the inlet structure spillway walls, except

for concrete walls in structures for which payment is made on a lump sum basis, and payment will be made at the applicable contract price, which payment shall constitute full compensation for all concrete (including all necessary items described in Paragraph "PAYMENT FOR CONCRETE ITEMS" above) placed above the starter walls in the vertical walls of the open channel, complete.

1.12.2.3 Concrete, Channel Side Slope.

No separate payment will be made for concrete, channel side slope and all costs in connection therewith shall be included in the contract prices for immediate adjacent items to which the work applies.

1.12.2.4 Concrete, Cut-off Wall.

No separate payment will be made for concrete, cut-off walls and all costs in connection therewith shall be included in the contract prices for items to which the work applies.

1.12.2.5 Concrete, Transition

Payment for concrete, transition and all costs in connection therewith shall be included in the contract prices for concrete, channel walls and concrete, channel invert slab or to the applicable contract price for which the work applies.

1.12.2.6 CONCRETE OVERFLOW STRUCTURE(S) (Bid Item 0016, 0017, 0018, 0019, 0102)

Payment for Concrete Overflow Structure(s) will be made at the applicable contract price, which payment shall constitute full compensation for all concrete (including all necessary items described in Paragraph "PAYMENT FOR CONCRETE ITEMS" above) placed for the concrete overflow structure, including furnishing and placing reinforcing steel, complete except earthwork. The Concrete Overflow Structure centerlines are located at Upper Blue Diamond Diversion Channel Stations 43+15.428, 40+68.000, 37+88.000, 31+04.220, and 17+04.885.

1.13 GROUTED RIPRAP (Bid Item 0020)

1.13.1 Measurement.

Measurement of Grouted Riprap will be made on the basis of the applicable contract unit price per cubic meter for the grouted riprap placed within the design lines of the grouted riprap structure as shown on the drawings. Measurement of grouted riprap placed against the sides of any excavation without the use of intervening forms will be made only within the design lines of the grouted riprap structure. No deductions will be made for rounded or beveled edges or space occupied by metalwork, nor voids or embedded items. Grouted riprap placed in items of work other than those specifically mentioned above, and grouted riprap and grout and riprap wasted or used for the convenience of the Contractor will not be included in measurement for payment.

## 1.13.2 Payment.

Payment for Grouted Riprap will be made at the applicable contract unit price, which payment shall constitute full compensation for obtaining and placing the grouted riprap and grout, complete including all incidentals.

## 1.14 REINFORCING STEEL (Bid Item 0021).

## 1.14.1 Measurement.

Measurement of reinforcing steel in metric tonnes (1,000 kilograms) is limited to reinforcement in concrete structures paid for on a cubic meters basis. Measurement will be made of the lengths of bars actually placed in the completed work in accordance with the plans and specifications, approved bar schedules, or as directed. The measured lengths will be converted to weights for the bar numbers listed by the unit weights per linear foot contained in ASTM A 615. Steel in laps indicated on the drawings, in the specifications, or required by the Contracting Officer will be included in measurement for payment. No measurement will be made for the additional steel in laps which are authorized for the convenience of the Contractor. No measurement will be made of steel supports or spacers. All costs for furnishing and installing supports and spacers shall be included in the various structures requiring the reinforcement.

## 1.14.2 Payment.

Payment for Reinforcing Steel will be made at the applicable contract price, which payment shall constitute full compensation for furnishing and installing steel reinforcement, complete. No payment will be made for steel reinforcement which is placed in structures for which payment is made on a lump sum basis.

## 1.15 AGGREGATE BASE COURSE (Bid Item 0022).

## 1.15.1 Measurement.

Measurement of aggregate base course will be by the metric tonne (1,000 kilograms) of aggregate base course placed within the lines and grades indicated on the drawings.

## 1.15.2 Payment.

Payment for Aggregate Base Course will be made at the applicable contract price which payment shall constitute full compensation for earthwork required for installation of aggregate base course, furnishing and placing the aggregate base course, complete, including subgrade preparation.

## 1.16 ASPHALT CONCRETE PAVEMENT (Bid Item 0023).

## 1.16.1 Measurement.

Measurement for asphalt concrete pavement will be by the metric tonne (1,000 kilograms) of asphalt concrete pavement placed within the lines and grades as indicated on the drawing.

## 1.16.2 Payment.

Payment for Asphalt Concrete Pavement will be made at the applicable contract price which payment shall constitute full compensation for asphalt concrete pavement in place, complete including tack coat, prime coat and appurtenant work except for aggregate base course. No payment will be made for excessive thickness.

## 1.17 WEEPHOLE SYSTEM (Bid Item 0024).

Payment for the Weephole System will be made at the applicable contract price, which payment shall constitute full compensation for materials, and installation of the weephole system, complete including applicable earthwork, drain aggregate, geotextile, form openings and appurtenances, complete.

## 1.18 RCB CHANNEL AND BELTWAY LATERAL CONFLUENCE STRUCTURE (Bid Item 0025).

Payment for RCB Channel and Beltway Lateral Confluence Structure will be made at the applicable contract price, which payment shall constitute full compensation for the RCB structure consisting of the Upper Blue Diamond Diversion Channel from Sta. 14+10.000 to Sta. 13+35.400, including confluence section T shown on drawing "S4", including invert transition section U shown on drawing "S5", and including 5.480 wide x 3.100 high box conduit, complete, except earthwork and except manholes; and including extended headwall shown on drawing "S3", complete; including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; protect in place existing utilities; and all incidentals, complete as shown on the drawings except for post and cable railing and chain link fencing.

## 1.19 CHANNEL AND A PORTION OF BELTWAY LATERAL STRUCTURE (Bid Item 0026).

Payment for the Channel and a Portion of Beltway Lateral Structure will be made at the applicable contract price, which payment shall constitute full compensation for the structure consisting of the Upper Blue Diamond Diversion Channel from Sta. 14+55.422 to Sta. 14+10.000 and a Portion of Beltway Lateral from Sta. 10+00.000 to Sta. 10+45.312, including details of Section R and Section S shown on drawing "S5", and including details of Section P shown on drawing "S4", complete, except earthwork and except weepholes; including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; and all incidentals, complete as shown on the drawings except for post and cable railing and chain link fencing.

## 1.20 RCB CHANNEL FRONTAGE ROAD (Bid Item 0027).

Payment for RCB Channel Frontage Road will be made at the applicable contract price, which payment shall constitute full compensation for the Upper Blue Diamond Diversion Channel Frontage Road RCB Structure from Sta. 16+40.000 to Sta. 15+70.000, except earthwork, complete, including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete, and all incidentals, including extended headwalls;

except temporary Frontage Road traffic detour and except installing new traffic barriers and maintaining existing traffic barriers on North side and South Side of channel at Frontage Road (Beltway), and except extra traffic control devices that will be left in place after Contractor leaves site on North side and South side of channel at Frontage Road (Beltway), complete as shown on the drawings except for post and cable railing and chain link fencing.

1.21 RCB CHANNEL TIBERTI NORTH (Bid Item 0028).

Payment for RCB Channel Tiberti North will be made at the applicable contract price, which payment shall constitute full compensation for the Upper Blue Diamond Diversion Channel Tiberti North RCB Structure from Sta. 18+73.180 to Sta. 17+90.000, except earthwork, complete, including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete, and all incidentals, including headwall, complete as shown on the drawings except for chain link fencing and post and cable railing.

1.22 CHANNEL AND RHODES RANCH CONFLUENCE STRUCTURE (Bid Item 0029).

Payment for Channel and Rhodes Ranch Confluence Structure will be made at the applicable contract price, which payment shall constitute full compensation for the structure consisting of the Upper Blue Diamond Diversion Channel from Sta. 33+26.500 to Sta. 32+31.900, including details of Section S shown on drawing "S8", and including details of Section T shown on drawing "S9", except earthwork and except weepholes, complete; including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; and all incidentals, complete as shown on the drawings except for post and cable railing and chain link fencing.

1.23 CHANNEL AND A PORTION OF RHODES RANCH LATERAL STRUCTURE (Bid Item 0030).

Payment for Channel and a portion of Rhodes Ranch Lateral Structure will be made at the applicable contract price, which payment shall constitute full compensation for the structure consisting of the Upper Blue Diamond Diversion Channel from Sta. 33+47.421 to Sta. 33+26.500 and a Portion of Rhodes Ranch Lateral from Sta. 10+00.000 to Sta. 10+20.000; except earthwork and except weepholes, complete, including details of Section R shown on drawing "S9"; including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; and all incidentals, complete as shown on the drawings except for post and cable railing and chain link fencing.

1.24 RHODES RANCH LATERAL (Bid Item 0031).

Payment for Rhodes Ranch Lateral will be made at the applicable contract price, which payment shall constitute full compensation for the Rhodes Ranch Lateral from Sta. 10+20.000 to Sta. 10+69.530; except earthwork and except weepholes, complete; including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; protect in place existing utilities; and all incidentals, complete as shown on the drawings except for post and cable railing and chain link fencing.

## 1.25 RHODES RANCH LATERAL END (Bid Item 0032).

Payment for the Rhodes Ranch Lateral End will be made at the applicable contract price, which payment shall constitute full compensation for the Rhodes Ranch Lateral End from Sta. 10+78.830 to Sta. 10+69.530 including wingwalls and including riprap, except earthwork and except weepholes, complete; including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; and all incidentals, complete as shown on the drawings except for post and cable railing and chain link fencing.

## 1.26 RCB CHANNEL RHODES RANCH (Bid Item 0033).

Payment for RCB Channel Rhodes Ranch will be made at the applicable contract price, which payment shall constitute full compensation for the Upper Blue Diamond Diversion Channel Rhodes Ranch RCB Structure from Sta. 37+35.580 to Sta. 33+65.000, except earthwork and except manholes, complete; including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete, and all incidentals, including extended headwalls, complete, as shown on the drawings except for post and cable railing and chain link fencing.

## 1.27 RCB CHANNEL WINDMILL ROAD THROUGH SHELBOURNE AVE (Bid Item 0034).

Payment for RCB Channel Windmill Road through Shelbourne Ave will be made at the applicable contract price, which payment shall constitute full compensation for the Upper Blue Diamond Diversion Channel Windmill Road through Shelbourne Ave RCB Structure from Sta. 48+40.000 to Sta. 43+30.730, except earthwork and except manholes, complete; including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; and all incidentals, including extended headwalls, complete as shown on the drawings except for post and cable railing and chain link fencing.

## 1.28 INVERT ACCESS RAMP 1 (Bid Item 0035).

Payment for Invert Access Ramp 1 also includes the adjacent open channel from Sta. 17+66.000 to Sta. 16+99.919. Payment will be made at the applicable contract price, which payment shall constitute full compensation for the invert access ramp and open channel, except earthwork and except weepholes, complete, including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; including pipe access gate installed at top of access ramp to restrict vehicle access into channel invert and all appurtenances, including painting of pipe access gate; and all incidentals, including padlocks, complete as shown on the drawings except for post and cable railing and chain link fencing.

## 1.29 INVERT ACCESS RAMP 2 (Bid Item 0036).

**Payment for Invert Access Ramp 2, also includes the adjacent open channel from Sta. 30+85.891 to Sta. 30+28.580. Payment will be made at the applicable contract price, which payment shall constitute full compensation for the invert access ramp and open channel, except earthwork and except**

**weepholes, complete, including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; including pipe access gate installed at top of access ramp to restrict vehicle access into channel invert and all appurtenances, including painting of pipe access gate; and all incidentals, including padlocks, complete as shown on the drawings except for post and cable railing and chain link fencing.**

1.30 INVERT ACCESS RAMP 3 (Bid Item 0037).

Payment for Invert Access Ramp 3, also includes the adjacent open channel from Sta. 50+57.231 to Sta. 49+97.000. Payment will be made at the applicable contract price, which payment shall constitute full compensation for the invert access ramp and open channel, except earthwork and except weepholes, complete, including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; including pipe access gate installed at top of access ramp to restrict vehicle access into channel invert and all appurtenances, including painting of pipe access gate; and all incidentals, including padlocks, complete as shown on the drawings except for post and cable railing and chain link fencing.

1.31 INLET STRUCTURE SOIL CEMENT ARMOR (Bid Item 0038)

1.31.1 Measurement

Measurement of soil cement will be made on the basis of actual cubic meters of soil cement placed within the lines and grades indicated on the drawings and specifications, excluding the quantity placed in the test section.

1.31.2 Payment

Payment for soil cement will be made at the applicable contract price, which payment shall constitute full compensation for the soil cement including all materials (except portland cement and pozzolan for which separate payments are provided), costs for test section, cost to develop all soil cement mix designs, formwork, batching, hauling, placing, compacting, finishing, curing and all equipment and tools to complete the soil cement in place. Embedded items shall be included in the cost of the soil cement except when other payment is specifically provided.

1.32 PORTLAND CEMENT FOR SOIL CEMENT (Bid Item 0039)

1.32.1 Measurement

Quantity of portland cement for soil cement to be paid for will be the number of metric tonnes (1,000 kilograms) of portland cement used for soil cement unless specifically excepted, wasted or used in the soil cement test section or for all soil cement mix designs or used for the convenience of the Contractor. The quantity to be paid for will be determined by multiplying the approved weight of portland cement in kilograms per cubic meter of soil cement by the number of accepted cubic meters of soil cement placed within the lines and grades indicated on the drawings and dividing by 1,000.

1.32.2 Payment

Payments for portland cement for soil cement will be made at the applicable contract price, which payment shall constitute full compensation for furnishing the portland cement ready for use in the work, complete. No payment will be made for portland cement used for structures for which separate payment is provided.

1.33 POZZOLAN FOR SOIL CEMENT (Bid Item 0040)

1.33.1 Measurement

Quantity of pozzolan for soil cement to be paid for will be the number of metric tonnes (1,000 kilograms) of pozzolan used for soil cement unless specifically excepted, wasted, or used in the soil cement test section or for all soil cement mix designs or used for the convenience of the Contractor. The quantity to be paid for will be determined by multiplying the approved weight of pozzolan in kilograms per cubic meters of soil cement by the number of accepted cubic meters of soil cement placed within the lines and grades indicated on the drawings and dividing by 1,000.

1.33.2 Payment

Payments for pozzolan for soil cement will be made at the applicable contract price, which payment shall constitute full compensation for furnishing the pozzolan, complete. No payment will be made for pozzolan used for structures for which separate payment is provided.

1.34 INLET STRUCTURE OUTLET RCB (Reinforced Concrete Box) Bid Item 0041)

Payment for Inlet Structure Outlet RCB will be made at the applicable contract lump sum price for the size and reach of box specified, which payment shall constitute full compensation for RCB and headwalls including earthwork, complete, including: furnishing and placing reinforcing steel; furnishing and placing, finishing and curing concrete, headwalls and manholes on outlet conduits; furnishing and placing plywood plugs; and all incidentals, complete as shown on the drawings, except for manholes and ladder systems and outlet conduit side drain connection which have separate bid items. Inlet Structure Basin Outlet Conduit RCB shall be 0.914 m x 0.914 m from Station 11+45.390 to Station 10+01.000.

1.35 INLET STRUCTURE OUTLET TOWER (Bid Item 0042)

Payment for the Inlet Structure Outlet Tower will be made at the applicable contract price, which payment shall constitute full compensation for the outlet tower structure, complete, including excavation and compacted fill; furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; furnishing and placing galvanized steel grating; furnishing and placing 76 diameter PVC pipe; and all incidentals.

1.36 SIDE DRAINS (Bid Items 0043, 0044, 0045, 0046, 0047, 0048, 0118, 0119, 0120, 0121, 0122).

Payment for the various side drains and stub-outs will be made at the applicable contract price, which payment shall constitute full compensation

for the side drain and stub-outs, complete, as shown on the drawings, except earthwork; furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete for the side drain junction structures and inlet structure; furnishing and placing all lengths of concrete pipe as shown on the "C" drawings, fittings and end sections and concrete thrust blocks; and placing temporary pipe barriers (plugs) for stub-outs as necessary. The earthwork included shall be only that earthwork which is located outside the limits of earthwork for which other payment is provided and no payment will be made under this item for inlets, grates, concrete, and concrete pipe for which separate payment is provided.

1.37 MANHOLES FOR BOX CONDUITS, CULVERTS, AND LATERALS (Bid Item 0049).

Payment for Manholes for Box Conduits, Culverts, and Laterals will be paid for according to the applicable contract lump sum price including, excavation, backfill and appurtenances complete and in place, except for ladder systems. No extra payment will be made for pipe fittings required to make connections to manholes.

1.38 ROAD DETOUR AT BELTWAY (Bid Item 0050).

Payment for Road Detours at Beltway will be made at the applicable contract lump sum price, and shall be considered full payment for all work including: remove and salvage chain link fence; remove and salvage riprap in fill area; roadway embankment fill including all earthwork and provision of borrow materials, including pre and post surveys of the borrow area, including costs associated with embankment material for detour road may be borrowed from the area immediately north, when the detour road is removed, the Contractor shall restore the borrow area to the grades existing prior to construction; construct v-ditch along toe of slope to provide positive drainage, riprap protect the embankment slope; type II aggregate base and related work; 63 mm (2-1/2 inch) plantmix bituminous surface (PBS) and related work, with sawcut and match existing at both ends; portable precast concrete barrier rails; ground mounted construction signs (10 signs); type 1 lane line (paint); 150 mm (6-inch) wide white painted edge line; flag men as required; and removal of detour roadway embankment and appurtenances and restoration of Frontage Road/Beltway site including PBS, signage, striping, fencing, and flagmen, complete as shown on drawing sheet D7 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, BELTWAY DETOUR CONSTRUCTION PLAN, STATION 10+00 TO 19+00 and on drawing sheet D8 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, FRONTAGE ROAD DETOUR PLAN, CONSTRUCTION SIGNING & STRIPING.

1.39 EASTBOUND FRONTAGE ROAD REMOVAL AND RECONSTRUCTION (Bid Item 0051).

Payment for Eastbound Frontage Road Removal and Reconstruction will be made at the applicable contract lump sum price, and shall be considered full payment for all work including: remove and salvage chain link fencing; remove and salvage galvanized guardrail; remove 150 mm (6-inch) asphalt surface including sawcuts; provide and install type II aggregate base as shown on drawing; provide and install 150 mm (6-inch) plantmix bituminous surface including primecoat and tackcoat; construct galvanized guardrail per NDOT Standard Drawings; restore pavement markings; except earthwork which is covered under separate bid item, complete as shown on drawing sheet D12 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, REMOVAL AND

RECONSTRUCTION, SOUTHERN BELTWAY EASTBOUND FRONTAGE ROAD.

1.40 CHAIN LINK FENCE, 1.829 M HIGH, 9 GAGE (Bid Item 0052).

1.40.1 Measurement.

Measurement of chain link fence, 1.829 M High, 9 Gage will be by the linear meters of chain link fence, 1.829 M high, 9 Gage, constructed as shown on the drawings.

1.40.2 Payment.

Payment for Chain Link Fence, 1.829 M High, 9 Gage, will be made at the applicable contract price, which payment shall constitute full compensation for chain link fencing, including posts with caps, rail, chain link fabric, stretcher bars, tension bands, wire ties, truss wire, concrete, grounding, and all incidentals, complete as shown on the drawings.

1.41 POST AND CABLE RAILING (Bid Item 0053)

1.41.1 Measurement

Measurement of post and cable railing will be by the linear meter, measured from end to end, of railing installed as shown on the drawings.

1.41.2 Payment

Payment for post and cable railing will be made at the applicable contract unit price per linear meter, which payment shall constitute full compensation for railing, including posts, cable, safety chain gates, anchor plate, bolts, and other galvanized appurtenances, fabrication, grout or dry pack, including painting of posts on non-Rhodes Ranch property and including painting of posts on Rhodes Ranch property to match ornamental fence paint color, and all incidentals, including padlocks, complete.

1.42 DOUBLE SWING GATES (Bid Item 0054).

1.42.1 Measurement

Measurement of double swing gates will be the number of double swing gates acceptably installed.

1.42.2 Payment.

Payment for Double Swing Gate will be made at the applicable contract price, which payment shall constitute full compensation for fabricating and installing the double swing gates, complete, including posts with caps, chain link fabric, frame members, tension bands, truss rods, stretcher bars, wire ties, truss wire, sleeves, hinges, grout, concrete, stops and padlocks, and all incidentals, complete, as shown on the drawings.

1.43 PRE-EMERGENT HERBICIDE AND PIGMENTED DUST PALLIATIVE/SOIL STABILIZER ON NON-REVEGETATED AREAS OF CHANNEL (Bid Item 0055))

## 1.43.1 Measurement

Measurement of pre-emergent herbicide and pigmented dust palliative/soil stabilizer will be made on the basis of the actual area in hectares of areas treated with pre-emergent herbicide and pigmented dust palliative/soil stabilizer used for disturbed areas that will not be revegetated as indicated or directed.

## 1.43.2 Payment

Payment for pre-emergent herbicide and pigmented dust palliative/soil stabilizer will be at the applicable contract unit price per hectare, which payment shall constitute full compensation including furnishing materials, processing, and application, complete in place.

## 1.44 STATION MARKINGS (Bid Item 0056).

Payment for Station Markings will be made at the applicable contract lump sum price, which shall be considered full payment for preparation, paint and marking, equipment and labor.

## 1.45 AS-BUILT DRAWINGS (Bid Item 0057).

## 1.45.1 Measurement

Measurement shall be made on a lump sum basis.

## 1.45.2 Payment

Payment for As-Built Drawings will be made at the applicable contract price, which payment shall constitute full compensation for furnishing all labor, material, and equipment complete in place for the complete set of as-built drawings, including electronic MicroStation SE or MicroStation J "DGN" file format and PEN FILES/TABLES on Compact Disk, indicating installation of work items not installed according to the contract drawings.

## 1.46 LADDER SYSTEMS (Bid Item 0058)

Payment for Ladder Systems will be made at the applicable contract lump sum price for installation of all channel access ladders, including access ladders for Manholes for Box Conduits. The contract price for ladder system shall be considered full payment for fabrication, assembly fittings, finishing, paint and marking, installation of ladder steps, and all equipment, labor and fittings.

## 1.47 SINGLE SWING GATES, MANWAY, 1.000 x 1.829 (Bid Item 0113).

## 1.47.1 Measurement

Measurement of single swing gates, manway 1.000 x 1.829 will be the number of single swing gates, manway 1.000 x 1.829 acceptably installed.

## 1.47.2 Payment.

Payment for single swing gates, manway 1.000 x 1.829 will be made at the applicable contract price, which payment shall constitute full compensation for fabricating and installing the single swing gates, manway 1.000 x 1.829, complete, including posts with caps, chain link fabric, frame members, tension bands, truss rods, stretcher bars, wire ties, truss wire, sleeves, hinges, grout, padlocks, and all incidentals, complete, as shown on the drawings.

1.48 BASIN TRESPASS PREVENTION DEVICES - BOLLARDS (Bid Item 0060).

Payment for trespass prevention devices will be made at the applicable lump sum contract price, which payment shall constitute full compensation for trespass prevention devices, including concrete filled bollards and foundation caissons, all associated fabrication, connections including welding, sleeves, lock assemblies, concrete and/or grout and/or drypack, surface preparation and painting, grounding, and all incidentals, including stops and padlocks, complete as shown on the drawings.

1.49 DURANGO DRIVE REMOVAL AND RECONSTRUCTION (Bid Item 0061)

Payment for Durango Drive Removal and Reconstruction will be made at the applicable contract lump sum price, and shall be considered full payment for all work including; remove 50 mm (2-inch) asphalt surface; install roadway embankment fill; install type II aggregate base; new 63 mm (2 1/2-inch) plantmix bituminous surface including sawcut; adjust water valve covers (13 each); and adjust sanitary sewer manhole covers (9 each, not including Arlington Ranch Sewer Manhole adjustments which are included in another bid item), complete, as shown on drawing sheets D14 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, REMOVALS AND RELOCATIONS, DURANGO DRIVE, D15 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, ROADWAY RECONSTRUCTION PLAN, DURANGO DRIVE STA. -7+50 TO STA. 4+00, D16 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, ROADWAY RECONSTRUCTION PLAN, DURANGO DRIVE STA. 4+00 TO STA. 15+00, including coordination and phasing costs required between Contractor with Rhodes Ranch relocated sewer and Durango roadway improvements related work as shown on Drawings D17 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, ROADWAY RECONSTRUCTION PLAN, DURANGO DRIVE STA. 15+00 TO STA. 26+00, and D18 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, ROADWAY RECONSTRUCTION PLAN, DURANGO DRIVE STA. 26+00 TO STA. 36+00.

1.50 PROVIDE PLANT STORAGE IRRIGATION DURING CONSTRUCTION (Bid Item 0062)

Payment for providing plant storage area irrigation during construction will be made at the applicable contract price, which payment shall constitute full compensation for furnishing water, labor and equipment to maintain plants as specified.

1.51 PROVIDE IRRIGATION FOR ONE YEAR AFTER CONSTRUCTION (Bid Item 0063)

Payment for providing irrigation for one year after construction will be made at the applicable contract price, which payment shall constitute full compensation for furnishing water, labor and necessary equipment to maintain plants placed for revegetation as specified.

1.52 ONE YEAR GUARANTEE ON LANDSCAPE WORK AT INLET STRUCTURE (Bid Item 0064)

Payment for providing a one year guarantee on landscape work will be made at the applicable contract price, which payment shall constitute full compensation for furnishing personnel to complete landscape work as specified, and providing required reports.

1.53 TORTOISE FENCE, INLET STRUCTURE (Bid Item 0065)

1.53.1 Measurement

Measurement of tortoise fence that is provided will be by the linear meter of tortoise fence constructed as shown on the drawings.

1.53.2 Payment

Payment for tortoise fence will be made at the applicable contract unit price per linear meter, which payment shall constitute full compensation for tortoise fence, including steel tee posts and all incidentals complete as shown on the drawings, and scheduling and coordination of the work to comply with Section 01200 GENERAL REQUIREMENTS, paragraph ENVIRONMENTAL ASSESSMENT REQUIREMENT. Payment shall also include complete removal of tortoise fence at the completion of this project.

1.54 SALVAGE, STORE, AND MAINTAIN PLANTS (Bid Items 0066 - 0069)

1.54.1 Measurement

Measurement for salvaging, storing, and maintaining plants will be the number of plants of each type specified, actually salvaged, stored and maintained in a healthy condition.

1.54.2 Payment

The accepted quantities of plants measured for salvaging, storing, and maintaining plants, will be paid at the applicable contract unit price per the type of plant, for plants actually salvaged, stored and maintained in a healthy condition. Such payment shall be full compensation for all the labor, materials, and incidentals necessary to complete the work, except transplanting plants and irrigation water to maintain the plants will be paid separately.

1.55 TRANSPLANT PLANT MATERIALS (Bid Items 0070 - 0073)

1.55.1 Measurement

Measurement for transplanting plant materials will be the number of plants of each type specified, actually planted on the project.

1.55.2 Payment

The accepted quantities of plants measured for transplanting plant materials will be paid at the applicable contract unit price per the type of plant, identified in each bid item and actually planted on the project. Such payment shall be full compensation for all the labor, materials, and

incidentals necessary to complete the work, except irrigation water to maintain the plants will be paid separately.

1.56 PLACE TOPSOIL TO FINISH GRADE, DOWNSTREAM SURFACE INLET STRUCTURE EMBANKMENT (Bid Item 0074)

1.56.1 Measurement

Measurement for placing topsoil to finished grade will be made on the basis of the cubic meters of material placed and graded to a depth of 203 millimeters over surfaces designated for revegetation treatment. Excess material from strip and stockpile for topsoil that is wasted or placed as miscellaneous fill will not be included for measurement under this item.

1.56.2 Payment

Payment for placing topsoil to finished grade will be at the applicable contract price per cubic meter, which payment shall constitute full compensation for materials, equipment, and labor.

1.57 SEEDING AND FERTILIZATION, DOWNSTREAM SURFACE INLET STRUCTURE EMBANKMENT (Bid Item 0075)

1.57.1 Measurement

Measurement for seeding and fertilization will be the number of hectares completed, applied at the specified seed and fertilizer rates in the designated areas, measured along the ground slope.

1.57.2 Payment

Payment for seeding and fertilization will be at the applicable contract price per hectares, which payment shall constitute full compensation for materials, equipment, and labor including tillage, amendments, and plant establishment.

1.58 PROVIDE BROWSE PROTECTION (Bid Item 0076)

Payment for providing browse protection will be made at the applicable contract price for each browse control device including equipment, supplies and labor.

1.59 SIMULATED DESERT VARNISH ROCK COLOR MITIGATION (Bid Item 0077)

1.59.1 Measurement

Measurement of simulated desert varnish rock color mitigation will be made on the basis of the actual area in hectares of exposed excavation, fill, and rock surfaces in the construction areas that are treated.

1.59.2 Payment

Payment for simulated desert varnish rock color mitigation will be at the applicable contract price per hectares, which payment shall constitute full

compensation for the simulated desert varnish rock color mitigation including furnishing materials, processing, hauling, and placing, complete in place.

1.60 SOIL SAMPLING AND TESTING FOR FERTILITY (Bid Item 0078)

1.60.1 Measurement

Measurement of soil sampling and testing for fertility will be made at the applicable contract unit price per each soil sample taken as shown on the drawings and tested for fertility.

1.60.2 Payment

Payment for soil sampling and testing for fertility will be made at the applicable contract price for each soil sample taken and tested, which payment shall constitute full compensation for materials, equipment, and labor.

1.61 PIGMENTED DUST PALLIATIVE/SOIL STABILIZER ONLY ON REVEGETATED AREAS (Bid Item 0079)

1.61.1 Measurement

Measurement of pigmented dust palliative/soil stabilizer will be made on the basis of the actual area in hectares used for revegetation as indicated or directed.

1.61.2 Payment

Payment for pigmented dust palliative/soil stabilizer will be at the applicable contract price per hectare, which payment shall constitute full compensation including grading, scarifying, furnishing materials, processing, hauling and applying, complete in place.

1.62 PROVIDE CHANNEL EXCAVATION SHORING ON WEST SIDE OF EXCAVATION FROM STA. 35+57.644 TO STA. 35+02.853 AND STA. 34+86.656 TO STA. 34+40.000 TO PROTECT STREET IMPROVEMENTS (Bid Item 0080))

Payment for providing excavation shoring along provide channel excavation shoring on west side of excavation from Sta. 35+57.644 to Sta. 35+02.853 and Sta. 34+86.656 to Sta. 34+40.000 to protect street improvements will be made at the applicable contract price, which payment shall constitute full compensation for furnishing shoring, labor and necessary equipment, for duration of related construction work in area, to protect street improvements as specified, and removal of said shoring when related work is completed.

1.63 PROVIDE CHANNEL EXCAVATION SHORING ON WEST SIDE OF EXCAVATION FROM STA. 34+40.000 TO STA. 34+16.498 AND ON EAST SIDE OF EXCAVATION FROM STA. 34+30.000 TO STA. 33+02.481 TO PROTECT STREET AND LANDSCAPING IMPROVEMENTS (Bid Item 0081)1)

Payment for providing channel excavation shoring on west side of excavation

from Sta. 34+40.000 to Sta. 34+16.498 and on east side of excavation from Sta. 34+30.000 to Sta. 33+02.481 to protect street and landscaping improvements will be made at the applicable contract price, which payment shall constitute full compensation for furnishing shoring, labor and necessary equipment, for duration of related construction work in area, to protect landscaping improvements as specified, and removal of said shoring when related work is completed.

1.64 RHODES RANCH ENTRY PHASE 1 DETOUR (Bid Item 0082).

Payment for Rhodes Ranch Entry Phase 1 Detour will be made at the applicable contract lump sum price, and shall be considered full payment for all work including: traffic drum with flasher, 24 inch solid white stop bar, ground mounted construction signs (7 signs); portable precast concrete barrier rails; type III barricade; and removal of Phase 1 detour items when no longer required, complete, except for earthwork, and as shown on drawing sheet D9 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, RHODES RANCH ENTRY, PHASE 1 & 2 DETOUR CONSTRUCTION PLAN.

1.65 RHODES RANCH ENTRY PHASE 2 DETOUR (Bid Item 0083).

Payment for Rhodes Ranch Entry Phase 2 Detour will be made at the applicable contract lump sum price, and shall be considered full payment for all work including: traffic drum with flasher, 24 inch solid white stop bar, ground mounted construction signs (10 signs); portable precast concrete barrier rails; removal of landscape median; temporary pavement patch; traffic drums with flashers; 4-inch double solid yellow centerline tape; 6-inch white edge line tape; 8-inch solid white edge line paint; 24-inch stop bar paint; type III barricade; replace raised median curb, complete, except for earthwork, and as shown on drawing sheet D9 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, RHODES RANCH ENTRY, PHASE 1 & 2 DETOUR CONSTRUCTION PLAN.

1.66 RHODES RANCH ENTRY REMOVAL AND RECONSTRUCTION (Bid Item 0084).

Payment for Rhodes Ranch Entry Removal and Reconstruction will be made at the applicable contract lump sum price, and shall be considered full payment for all work including: remove "L" type curb and gutter; remove "A" type curb; remove 100 mm (4-inch) concrete sidewalk; remove 50 mm (2-inch) asphalt surface; construct 3 each 6.56 m (20 foot) type CM drop inlet; construct 3 each 6.56 m (20 foot) type DM drop inlet; install 0.450 m (18-inch) RCP; install 0.610 m (24-inch) RCP; install 0.760 m (30-inch) RCP; construct "L" type curb & gutter; construct "A" type curb; construct 100 mm (4-inch) concrete sidewalk; install type II aggregate base; construct 2.4 m (8-foot) wide valley gutter; construct 50 mm (2-inch) plantmix bituminous surface permanent signing and striping, complete, as shown on the drawing sheet D13 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, REMOVAL AND RECONSTRUCTION, RHODES RANCH PARKWAY, and on drawing sheet D19 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, STORM DRAIN PROFILES.

1.67 DURANGO DRIVE ROAD CLOSURE - ROBINDALE ROAD TO WIGWAM AVENUE (Bid Item 0085).

Payment for Durango Drive Road Closure - Robindale Road to Wigwam Avenue

will be made at the applicable contract lump sum price, and shall be considered full payment for all work including: ground mounted construction signs (21 signs); type III barricade, provision of phased accessibility to existing residence and fire access crash gate off Shelbourne Avenue, complete, as shown on drawing sheet D10 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, ROAD CLOSURE PLAN, DURANGO DRIVE - ROBINDALE RD. TO WIGWAM AVE., including Contractor costs associated with having to provide construction access and coordination with Rhodes Ranch Contractor/Developer.

1.68 RCB CHANNEL UNDER BELTWAY ON RAMP (Bid Item 0086).

Payment for RCB Channel Under Beltway On Ramp will be made at the applicable contract price, which payment shall constitute full compensation for the RCB structure consisting of the Upper Blue Diamond Diversion Channel from Sta. 13+35.400 to Sta. 12+80.000, including 5.480 wide x 3.100 high box conduit, complete, except earthwork and except manholes; and including extended headwall shown on drawing "S3", complete; including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; protect in place existing utilities; and all incidentals, complete as shown on the drawings except for post and cable railing and chain link fencing.

1.69 ORNAMENTAL METAL FENCING (Bid Item 0087)

1.69.1 Measurement

Measurement of ornamental metal fencing will be by the linear meter, measured from end to end, of ornamental metal fencing installed as shown on the drawings.

1.69.2 Payment

Payment for Ornamental Metal Fencing will be made at the applicable contract price per linear meter, which payment shall constitute full compensation for ornamental metal fencing, including posts with caps, rails, pickets, all associated fabrication, connections including bolting and/or welding, anchor bolt assemblies, base plate assemblies, grout or drypack, concrete, surface preparation and painting, grounding, including all earthwork for posts, and all incidentals, complete as shown on the drawings.

1.70 ORNAMENTAL METAL FENCING GATES (Bid Item 0088).

1.70.1 Measurement

Measurement of ornamental metal fencing gates will be the number of ornamental metal fencing gates acceptably installed.

1.70.2 Payment.

Payment for Ornamental Metal Fencing Gates will be made at the applicable contract price per each unit, which payment shall constitute full compensation for matching ornamental metal fencing gates, including posts with caps, rails, pickets, frame members, all associated fabrication,

connections including bolting and/or welding, anchor bolt assemblies, base plate assemblies, concrete and/or grout and/or drypack, hinges, surface preparation and painting, grounding, and all incidentals, including stops and padlocks, complete as shown on the drawings.

1.71 UTILITY CROSSING ITEMS (Bid Item 0089).

Payment for Utility Crossing Items will be made at the applicable contract lump sum price, and shall be considered full payment for all work including:

- A) excavation shoring for electrical vault Sta. 22+55 and excavation shoring for electrical vault Sta. 23+14 and protect in place underground electrical, telephone (fiber optic), and cable tv conduits at Sta. 20+74 as shown and indicated in note on drawing sheet D3 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, UTILITY CROSSING DETAILS, UBDDR STA. 17+90, 20+74, AND 22+55;
- B) excavation shoring for electrical vault Sta. 33+25 and for Sta. 31+12 as shown and indicated in note on drawing sheet D4 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, UTILITY CROSSING DETAILS, UBDDR STA. 33+25, 34+88, AND 37+24.4;
- C) support and concrete encase 305 mm (12-inch) waterline, electrical conduits, telephone conduits, and 150 mm (6-inch) gas line at Sta. 34+88 and protect sewer line in place at Sta. 37+24.4 as shown and indicated on drawing sheet D4 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, UTILITY CROSSING DETAILS, UBDDR STA. 33+25, 34+88, AND 37+24.4;
- D) support and concrete encase telephone conduits and protect in place sewer line and manholes and waterline at Sta. 43+34 and protect in place sewer lines and manholes at Sta. 40+70 and Sta. 37+87 as shown and indicated on drawing sheet D5 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, UTILITY CROSSING DETAILS, UBDDR STA. 37+87, 40+70, AND 43+34;
- E) support and concrete encase telephone conduits and protect in place high pressure gas line and waterline at Sta. 45+44 as shown and indicated on drawing sheet D6 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, UTILITY CROSSING DETAILS, UBDDR STA. 45+44, 46+81, AND 47+36;
- F) support and concrete encase telephone conduits and protect in place high pressure gas line and waterline and sewer line at Sta. 46+81 as shown and indicated on drawing sheet D6 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, UTILITY CROSSING DETAILS, UBDDR STA. 45+44, 46+81, AND 47+36;
- G) support and concrete encase telephone conduits and protect in place high pressure gas line and waterline and sewer at approximate Sta. 47+00 as shown and indicated on drawing sheet D6 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, UTILITY CROSSING DETAILS, UBDDR STA. 45+44, 46+81, AND 47+36;
- H) support and concrete encase telephone conduits and remove existing 200

mm (8-inch) PVC and install new 200 mm (8-inch) ductile iron pipe waterline with steel encasement and protect in place high pressure gas line and valve assembly and waterline and sewer at Sta. 47+36; including steel sleeve, restraints at all joints, elbows, plug and blow off, as shown and indicated on drawing sheet D6 titled UPPER BLUE DIAMOND DIVERSION CHANNEL, UTILITY CROSSING DETAILS, UBDDR STA. 45+44, 46+81, AND 47+36, complete.

1.72 OUTLET CONDUIT SIDE DRAIN STRUCTURE, STA. 51+03.000 RT (Bid Item 0090).

Payment for the outlet conduit side drain structure, sta. 51+03.000 right, will be made at the applicable contract price, which payment shall constitute full compensation for the side drain structure, complete, as shown on the drawings, except earthwork; furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete for the side drain junction structure and inlet structure; and placing temporary barriers (plugs) as necessary. The earthwork included shall be only that earthwork which is located outside the limits of earthwork for which other payment is provided.

1.73 1.829 M x 1.524 M SIDE DRAIN STRUCTURE, STA. 13+40.000 LT (Bid Item 0091).

Payment for the 1.829 M x 1.524 M side drain outlet structure, sta. 13+40.000 left, will be made at the applicable contract price, which payment shall constitute full compensation for the side drain structure, complete, as shown on the drawings, except earthwork; including sawcutting and removal of necessary portion of the existing precast 1.829 M x 1.524 M (6' x 5') RCB structure at STA. 13+40.000 (left side of channel looking upstream) to allow for placement of new channel and side drain structure; furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete for the side drain junction structure; furnishing and placing replacement cast in place RCB structure with all incidentals, and placing temporary barriers (plugs) as necessary. The earthwork included shall be only that earthwork which is located outside the limits of earthwork for which other payment is provided.

1.74 WALL TRANSITION STRUCTURE(S) (Bid Items 0092, 0093, 0094, 0095, 0096, 0097, 0098, 0099, 0100, 0107, 0111)

Payment for Wall Transition Structure(s) will be made at the applicable contract price, which payment shall constitute full compensation for the Upper Blue Diamond Diversion Channel Wall Transition Structure(s) shown on the drawings and identified by Stationing in the respective bid items, including details shown on "S" sheet drawings, except earthwork and except weepholes, complete; including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete; and all incidentals, complete as shown on the drawings except for post and cable railing and chain link fencing. The Upper Blue Diamond Diversion Channel wall transition structures are identified from open channel invert and wall items for accounting purposes only. The Upper Blue Diamond Diversion Channel Wall Transition Structures are located at the following Stations -

STA. 49+00.000 TO STA. 48+40.000

STA. 43+30.730 TO STA. 43+23.130  
STA. 37+46.980 TO STA. 37+35.580  
STA. 33+65.000 TO STA. 33+59.600  
STA. 30+29.440 TO STA. 30+18.420  
STA. 22+84.000 TO STA. 22+71.300  
STA. 21+15.700 TO STA. 21+03.000  
STA. 17+90.000 TO STA. 17+80.900  
STA. 16+52.700 TO STA. 16+40.000  
STA. 15+70.000 TO STA. 15+57.300  
STA. 12+80.000 TO STA. 12+67.938

1.75 UTILITY MARKERS (Bid Item 0101).

1.75.1 Measurement

Measurement of utility markers will be the number of utility markers acceptably installed.

1.75.2 Payment.

Payment for Utility Markers will be made at the applicable contract price, which payment shall constitute full compensation for fabricating and installing the utility marker on the east side of utility being marked, complete, including utility marker consisting of schedule 80 PVC extending 0.610 meter above finished grade filled with grout/concrete and set in concrete filled five gallon bucket, with utility (i.e. electric, telephone, gas, water, sewer, etc.) being stenciled on schedule 80 PVC above finished grade, grout/concrete, paint, earthwork, protection of utility marker while in place, and all incidentals, complete.

1.76 ADJUST SEWER MANHOLE FRAMES AND COVERS (Bid Item 0103)

Measurement and payment shall be made according to the contract unit price for each manhole acceptably adjusted to finished grade elevation. Existing covers, including frames, grates, or lids shall be adjusted to the required elevation by removing such existing covers and adjusting the top of the existing structures by removing or adding concrete, riser, cone, grade rings, or by using cast iron adaptor rings, as the case may be, reinstalling the fixtures by supporting them on a satisfactory collar of Class A concrete constructed as to hold them firmly in place.

1.77 RCB CHANNEL LOUGHTON POWERS (Bid Item 0104).

Payment for RCB Channel Loughton Powers will be made at the applicable contract price, which payment shall constitute full compensation for the Upper Blue Diamond Diversion Channel Loughton Powers RCB Structure from Sta. 20+78.580 to Sta. 18+73.180, except earthwork and except manholes, complete, including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete, and all incidentals, complete as shown on the drawings.

1.78 RCB CHANNEL BADURA (Bid Item 0105).

Payment for RCB Channel Badura will be made at the applicable contract

price, which payment shall constitute full compensation for the Upper Blue Diamond Diversion Channel Badura RCB Structure from Sta. 21+03.000 to Sta. 20+78.580, except earthwork and except manholes, complete, including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete, and all incidentals, including headwall, complete as shown on the drawings except for chain link fencing.

1.79 OVERBURDEN RHODES RANCH ENTRYWAY (Bid Item 0106).

1.79.1 Measurement

Measurement for overburden Rhodes Ranch Entryway will be made on the basis of the actual volume, in cubic meters, as follows, between Station 33+65.000 through Station 37+21.439.

The overburden Rhodes Ranch Entryway quantity shall be surveyed and computed based on the following. The survey shall capture the elevations of a plane 0.610 meters above the top of the reinforced concrete box structure along the overburden area as shown on drawing sheet C22, Channel Typical Section, "Sta. 33+65.000 to Sta. 37+21.439". This 0.610 elevation plane above the reinforced concrete box shall be extended level (same elevation) to the west edge of the TCE limits to create a bottom for the overburden template. This template shall include a 1:1 slope up to daylight at and within the west TCE limit. This bottom of overburden shall then be compared with the actual existing finish grade elevations for the same area to create a volume of overburden. Survey data and calculations shall be submitted to the Contracting Officer prior to removing any overburden.

1.79.2 Payment

Payment for Overburden Rhodes Ranch Entryway will be made at the applicable contract price per cubic meter and includes handling of overburden material at identified Rhodes Ranch overburden site which includes overburden material on flood easement on West side of Durango Drive between station 33+65.000 through station 37+21.439 indicated herein; and shall be considered full payment for all work including surveying for quantity verification, stockpiling and grading to final grade lines to match existing topography per survey data, complete.

1.80 PROTECT IN-PLACE ARLINGTON RANCH SEWER LINE (Bid Item 0108)

Payment for providing protect in-place Arlington Ranch Sewer Line within excavation limits of channel from Sta. 43+30.000 through Sta. 48+00.000 to protect PVC sewer line for Arlington Ranch improvements will be made at the applicable contract price, which payment shall constitute full compensation for furnishing shoring as necessary, labor and necessary equipment, for duration of related construction work in area, to protect and support in-place Arlington Ranch sewer line improvements as specified, and removal of said shoring if utilized when related work is completed.

1.81 ADJUST ARLINGTON RANCH SEWER MANHOLES (Bid Item 0109)

Payment for providing adjust Arlington Ranch Sewer manholes within

excavation limits of channel from Sta. 43+30.000 through Sta. 48+00.000 to adjust the height of 4 manholes for Arlington Ranch improvements will be made at the applicable contract price, which payment shall constitute full compensation for furnishing shoring as necessary, labor and necessary equipment, for duration of related construction work in area, to adjust the height of Arlington Ranch sewer manholes improvements as specified, and removal of said shoring if utilized when related work is completed.

1.82 CHAIN LINK FENCE, 1.219 M HIGH (Bid Item 0110).

1.82.1 Measurement.

Measurement of chain link fence, 1.219 M HIGH will be by the linear meters of chain link fencing constructed as shown on the drawings.

1.82.2 Payment.

Payment for Chain Link Fence, 1.219 M HIGH will be made at the applicable contract price, which payment shall constitute full compensation for chain link fencing, including posts with caps, rail, chain link fabric, stretcher bars, tension bands, wire ties, truss wire, anchor bolt assemblies, base plate assemblies, grout and/or drypack, grounding, and all incidentals, complete as shown on the drawings.

1.83 RCB CHANNEL TIBERTI SOUTH (Bid Item 0112).

Payment for RCB Channel Tiberti South will be made at the applicable contract price, which payment shall constitute full compensation for the Upper Blue Diamond Diversion Channel Tiberti South RCB Structure from Sta. 25+19.089 to Sta. 22+84.000, except earthwork and except manholes, complete, including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete, and all incidentals, including headwall, complete as shown on the drawings except for chain link fencing.

1.84 SINGLE SWING GATES, 1.000 X 1.219 (Bid Item 0113).

1.84.1 Measurement

Measurement of single swing gates, 1.000 x 1.219 will be the number of single swing gates, 1.000 x 1.219 acceptably installed.

1.84.2 Payment.

Payment for Single Swing Gates, 1.000 x 1.219 will be made at the applicable contract price, which payment shall constitute full compensation for fabricating and installing the single swing gates, 1.000 wide x 1.219 high, complete, including posts with caps, chain link fabric, frame members, tension bands, truss rods, stretcher bars, wire ties, truss wire, anchor bolt assemblies, base plate assemblies, hinges, grout and/or drypack, stops and padlocks, and all incidentals, complete, as shown on the drawings.

1.85 BELTWAY LATERAL TRANSITIONAL RCB STRUCTURE AT DURANGO DRIVE (Bid Item 0114).

Payment for Beltway Lateral Transitional RCB Structure at Durango Drive will be made at the applicable contract price, which payment shall constitute full compensation for the Beltway Transitional RCB Structure at Durango Drive from Sta. 12+33.130 to Sta. 12+26.53, except earthwork and except manholes, complete, including furnishing and placing reinforcing steel; furnishing, placing, finishing and curing concrete, and all incidentals, including headwall and dowels, complete as shown on the drawings except for chain link fencing.

1.86 ORNAMENTAL METAL FENCE GATES, SINGLE SWING, 1.000 X 1.800 (Bid Item 0115).

1.86.1 Measurement

Measurement of ornamental metal fence gates, single swing, 1.000 x 1.800 will be the number of ornamental metal fence gates, single swing, 1.000 wide x 1.800 high acceptably installed.

1.86.2 Payment.

Payment for ornamental metal fence gates, single swing, 1.000 x 1.800 will be made at the applicable contract price, which payment shall constitute full compensation for fabricating and installing the matching ornamental metal fence gates, single swing, 1.000 wide x 1.800 high, complete, including posts with caps, rails, pickets, frame members, all associated fabrication, connections including bolting and/or welding, anchor bolt assemblies, base plate assemblies, concrete and/or grout and/or drypack, hinges, surface preparation and painting, grounding, and all incidentals, including stops and padlocks, complete.

1.87 CHAIN LINK FENCE, 1.829 M HIGH, 11 GAGE (Bid Item 0116).

1.87.1 Measurement.

Measurement of chain link fence, 1.829 M High, 11 Gage will be by the linear meters of chain link fence, 1.829 M high, 11 Gage, constructed as shown on the drawings. The chain link fence, 1.829 M high, 11 gage shall be installed along the Temporary Construction Easement (TCE) of the Rhodes Ranch Property Between Station 43+30.730 through Station 30+18.420

1.87.2 Payment.

Payment for Chain Link Fence, 1.829 M High, 11 Gage, will be made at the applicable contract price, which payment shall constitute full compensation for chain link fencing, including posts with caps, rail, chain link fabric, stretcher bars, tension bands, wire ties, truss wire, concrete, grounding, and all incidentals, complete as shown on the drawings, including coordination of chain link, 1.829 M, 11 gage installation on Rhodes Ranch Property with Rhodes Ranch.

**NOTE : Requirements for Bid Item 0117 are in Paragraph 1.89**

## 1.88 PLANT NURSERY AREA, TEMPORARY (Bid Item 0012).

Payment for Plant Nursery Area, Temporary will be made at the applicable contract price, which payment shall constitute full compensation for the provision of a 15 meter x 10 meter chain link 9 gage 1.829 m high fenced off area with barbed wire and access gate that will safely store the salvaged desert plants, including site preparation, installation of temporary fence, fence posts, excavation for fence posts, concrete for fence posts, fabric, gate and barbed wire, and removal of temporary plant nursery area including all fence, posts, concrete, gates, barbed wire and debris, prior to conclusion of construction but after replanting of salvaged desert plants.

## 1.89 REMOVE, SALVAGE AND REPLACE FENCE (Bid Item 0117).

## 1.89.1 Measurement.

Measurement of remove, salvage and replace fence will be by the linear meters of fence removed, salvaged and replaced in locations shown on the drawings. The replacement fence, whether salvaged or new, shall be of the same dimensions and fabric of the existing fence that is removed and installed in the locations shown on the drawings. The replacement posts, whether salvaged or new, shall be of same dimension and with same concrete embedment depth as those of the removed existing fence.

## 1.89.2 Payment.

Payment for remove, salvage and replace fence will be made at the applicable contract price, which payment shall constitute full compensation for: removing existing fence (including posts and foundations for posts), except for chain link fence on south side of channel from Sta. 14+40.000 to Sta. 10+00.000 which shall not be removed during entire project unless directed to do so by the Contracting Officer; salvaging and replacement with fence of similar dimensions and fabric to that of existing fence, including posts with caps, rail, stretcher bars, fence fabric, tension bands, wire ties, truss wire, concrete, grounding, and all incidentals, complete as shown on the drawings C13, C14, and C15, including coordination of removal and replacement of fence with all agencies including but not limited to Nevada Dept. of Transportation, Clark County Dept. of Public Works, Clark County Regional Transportation Commission; not including work on chain link fence shown in drawing sheets D7, D8 and D12, which are covered under another bid item.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

-- End of Section --

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