

SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	(TYPE 2) CTB TYPE 2, CON. CTB, CONC.			
			ALT. 1	ALT. 2	ALT. 3	ALT. 4
201.00.00	REMOVE TREES (14" DIA. AND LARGER)	EA.	6	6	6	6
201.10.00	CLEARING & GRUBBING	L.S.	1	1	1	1
202.09.00	RELOCATE MAILBOX	EA.	2	2	2	2
202.09.01	REMOVE GUARDRAIL	L.F.	362	362	362	362
202.22.01	REMOVE 5" WOOD FENCE	L.F.	264	264	264	264
202.26.01	REMOVE CHAIN-LINK FENCE	L.F.	1,421	1,421	1,421	1,421
202.29.01	REMOVE 6" HT. PLANTER WALL	L.F.	649	649	649	649
202.35.01	REMOVE DRAIN PIPE	L.F.	25	25	25	25
202.39.00	REMOVE 4" DIA. IRON PIPE	EA.	1	1	1	1
202.50.06	REMOVE CONCRETE SIDEWALK, ISLAND, AND ON-SITE DRIVE	S.F.	6,414	6,414	6,473	6,473
202.55.06	REMOVE COMMERCIAL DRIVEWAY	S.F.	960	960	960	960
202.60.01	REMOVE CURB & GUTTER	L.F.	995	995	995	995
202.75.06	REMOVE VALLEY GUTTER	S.F.	3,071	3,071	3,071	3,071
202.80.01	REMOVE MEDIAN ISLAND CURB	L.F.	2,827	2,827	2,867	2,867
202.80.01	REMOVE "A" CURB	L.F.	30	30	30	30
203.00.00	ROADWAY EXCAVATION	C.Y.	83,760	68,707	81,776	67,981
301.00.00	PLANTER ROCK PLACEMENT	C.Y.	63	63	63	63
302.02.00	TYPE 2 AGGREGATE BASE	C.Y.	54,937	5,099	51,354	5,098
303.68.20	PLANTMIX BITUMINOUS BASE (4" NELLIS)	TON	22,634	22,634	21,167	21,167
304.11.06	6" CEMENT TREATED BASE	S.Y.	0	0	7,769	7,769
304.11.08	8-1/2" CEMENT TREATED BASE	S.Y.	0	20,872	0	19,885
304.11.09	9" CEMENT TREATED BASE	S.Y.	0	17,098	0	16,727
304.11.13	13" CEMENT TREATED BASE	S.Y.	0	35,230	0	32,305
304.11.14	13-1/2" CEMENT TREATED BASE	S.Y.	0	26,837	0	24,664
304.24.20	PORTLAND CEMENT FOR CTB	H.W.	0	42,619	1,725	41,417
402.64.15	PLANTMIX BITUMINOUS PAVEMENT (1-1/2" MEDIAN)	TON	398	398	398	398
402.64.20	PLANTMIX BITUMINOUS PAVEMENT (2" MISC)	TON	809	809	809	809
402.64.21	3" PLANTMIX BITUMINOUS SIDEWALK (2")	S.F.	2,791	2,791	2,791	2,791
402.64.30	PLANTMIX BITUMINOUS SURFACE (3" NELLIS)	TON	16,975	16,975	15,874	15,874
403.00.00	OPEN GRADE SURFACE	TON	3,492	3,492	3,271	3,271
405.12.10	TACK COAT	TON	81.8	81.8	79.2	79.2
406.21.30	PRIME COAT	TON	11.4	11.4	11.4	11.4
407.12.10	SEAL COAT	TON	4.8	4.8	4.8	4.8
409.00.00	PORTLAND CEMENT CONCRETE PAVEMENT	C.Y.	0	0	1,642	1,642
502.10.00	BLOCK RETAINING WALL WITH CHAIN-LINK FENCE	L.F.	1,421	1,421	1,421	1,421
502.10.10	CONCRETE BRIDGE RAIL EXTENSION	EA.	3	3	3	3
502.10.20	CONCRETE BARRIER RAIL	L.F.	1,915	1,915	1,915	1,915
502.20.10	CONCRETE SLAB OVER PIPE	S.F.	775	775	775	775
623L.92.40	VERTICAL ADJUST. EXIST. STREET LIGHT POLES	EA.	4	4	4	4
603.14.15	15" RCP (1400 D)	L.F.	152	152	152	152
603.15.15	15" RCP (2300 D)	L.F.	289	289	289	289
603.15.15	RECONSTR. EXIST. 15" RCP	L.F.	47	47	47	47
603.13.18	18" RCP (1100 D)	L.F.	525	525	525	525
603.13.24	24" RCP (1400 D)	L.F.	119	119	119	119
603.13.24	45" ELBOW - 24" RCP (1400 D)	EA.	1	1	1	1
623T.50.12	VERT. ADJ. EXIST. PEDESTRIAN SIGNAL POLES	EA.	4	4	4	4
603.63.14	14" x 23" RCP (1000 D)	L.F.	112	112	112	112
603.64.18	14" x 23" RCP (800 D)	L.F.	169	169	169	169
603.64.24	15" x 30" RCP (1500 D)	L.F.	8	8	8	8
609.01.24	ADJUST STORM DRAIN MANHOLE (GRADE RINGS)	EA.	13	13	13	13
609.01.24	ADJUST STORM DRAIN MANHOLE (FLAT TOP & GRADE RINGS)	EA.	7	7	7	7
609.11.24	48" FLAT TOP STORM DRAIN MANHOLE	EA.	5	5	5	5
609.13.40	2" TYPE "A" DROP INLET	EA.	1	1	1	1
609.13.40	MODIFIED 2" TYPE "A" DROP INLET	EA.	2	2	2	2
609.13.41	3" TYPE "A" DROP INLET	EA.	1	1	1	1
609.13.42	4" TYPE "A" DROP INLET	EA.	1	1	1	1
609.13.43	5" TYPE "A" DROP INLET	EA.	1	1	1	1
609.13.44	6" TYPE "A" DROP INLET	EA.	2	2	2	2
609.13.45	7" TYPE "A" DROP INLET	EA.	4	4	4	4
609.13.46	8" TYPE "A" DROP INLET	EA.	1	1	1	1
609.13.47	9" TYPE "A" DROP INLET	EA.	1	1	1	1
609.13.48	14" TYPE "A" DROP INLET	EA.	5	5	5	5
609.13.48	MODIFIED 14" TYPE "A" DROP INLET	EA.	2	2	2	2
609.13.49	30" TYPE "A" DROP INLET	EA.	1	1	1	1
609.13.51	MODIFIED TYPE "B" DROP INLET	EA.	1	1	1	1
609.13.81	BEEHIVE DROP INLET	EA.	2	2	2	2
609.13.92	4.5" MEDIAN ISLAND DROP INLET	EA.	1	1	1	1
609.13.93	6" MEDIAN ISLAND DROP INLET	EA.	1	1	1	1
623T.50.12	VERT. ADJ. EXIST. TYPE 20 TRAFFIC SIGNAL POLES	EA.	4	4	4	4
609.19.91	12" ISLAND OPENING DRAIN	EA.	3	3	3	3
609.19.93	3" ISLAND OPENING DRAIN	EA.	1	1	1	1
609.19.94	2" CURB OPENING DRAIN	EA.	1	1	1	1
609.33.90	4" DIA. DRAIN HOLE (BRIDGE DECK)	L.S.	1	1	1	1
611.00.04	CONCRETE SLOPE PAVING	S.Y.	90	90	90	90
613.00.05	"A" TYPE ISLAND CURB	L.F.	18,525	18,525	18,402	18,402
613.02.05	24" "L" TYPE CURB & GUTTER	L.F.	15,772	15,772	15,772	15,772
613.03.05	TACK-ON "A" ISLAND CURB	L.F.	248	248	248	248
613.04.05	TACK-ON 24" "L" TYPE CURB & GUTTER	L.F.	24	24	24	24
613.05.05	"A" TYPE CURB	L.F.	30	30	30	30
613.10.03	4" CONCRETE SIDEWALK	S.F.	81,685	81,685	81,685	81,685
613.10.03	DEPRESSED CONCRETE SIDEWALK	S.F.	1,024	1,024	1,024	1,024
613.12.03	6" CONCRETE ON-SITE DRIVEWAY	S.F.	430	430	430	430
613.13.03	4" MEDIAN ISLAND CONCRETE	S.F.	9,220	9,220	9,170	9,170
613.14.03	7" CONCRETE DEPRESSED MEDIAN ISLAND	S.F.	240	240	240	240
613.15.03	CONCRETE TACK-ON MEDIAN ISLAND	S.F.	220	220	443	443
613.30.03	CONCRETE VALLEY GUTTER	S.F.	5,036	5,036	5,036	5,036
613.40.03	COMMERCIAL DRIVEWAY	S.F.	6,683	6,683	6,683	6,683
613.41.03	DEPRESSED COMMERCIAL DRIVEWAY	L.F.	560	560	560	560
616.01.60	6" CHAIN-LINK FENCE WITH 3" GATE	L.F.	40	40	40	40
618.00.00	STANDARD GUARDRAIL	L.F.	85	85	85	85
623L.01.30	RELOCATE STREET LIGHT ASSEMBLY	EA.	1	1	1	1
623T.04.00	TEMPORARY TRAFFIC CONTROL SYSTEM - CHARLESTON BLVD.	L.S.	1	1	1	1

SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	(TYPE 2) CTB TYPE 2, CON. CTB, CONC.			
			ALT. 1	ALT. 2	ALT. 3	ALT. 4
623L.03.30	REMOVE STREET LIGHT & SCHOOL FLASHER ASSEMBLY	EA.	2	2	2	2
623L.10.15	150W HPS STREET LIGHT ASSEMBLY	EA.	12	12	12	12
623L.10.20	200W HPS STREET LIGHT ASSEMBLY	EA.	90	90	90	90
623L.40.15	CONSTRUCT STREET LIGHT FOUNDATION	EA.	1	1	1	1
623L.54.15	REPLACE EXIST. LUMINAIRE WITH ISOW HPS	EA.	16	16	16	16
623L.54.20	REPLACE EXIST. LUMINAIRE WITH 200W HPS	EA.	11	11	11	11
623L.70.40	STREET LIGHT SERVICE PEDESTAL	EA.	4	4	4	4
623L.73.40	REMOVE SCHOOL FLASHER CONTROLLER	L.S.	1	1	1	1
623L.90.15	#3-1/2 STREET LIGHT PULLBOX	EA.	8	8	8	8
623L.90.15	#5 STREET LIGHT PULLBOX	EA.	2	2	2	2
623T.00.00	TRAFFIC CONTROL SYSTEM-FIRE STATION @ SIR GEORGE DRIVE	L.S.	1	1	1	1
623T.00.00	TRAFFIC CONTROL SYSTEM-SCHOOL FLASHERS AT PHILADELPHIA AVE.	L.S.	1	1	1	1
623T.08.10	TRAFFIC CONTROL SYSTEM-SAHARA AVENUE	L.S.	1	1	1	1
623T.08.10	TRAFFIC CONTROL SYSTEM-CHARLESTON BOULEVARD	L.S.	1	1	1	1
623T.10.00	TRAFFIC SYSTEM UNDERGROUND - WYOMING AVENUE	L.S.	1	1	1	1
623T.12.01	2" PVC INTERCONNECT CONDUIT	L.F.	10,608	10,608	10,608	10,608
623T.30.02	#5 INTERCONNECT PULLBOX	EA.	42	42	42	42
623T.30.22	REMOVE INTERCONNECT PULLBOX	EA.	6	6	6	6
623T.55.00	TRAFFIC SYSTEM MODIFICATION - STEWART AVENUE	L.S.	1	1	1	1
629.00.00	ADJUST WATER VAULT MANHOLE	EA.	3	3	3	3
629.01.00	ADJUST WATER VALVE BOX	EA.	35	35	35	35
629.03.00	VERTICALLY ADJUST EXIST. FIRE HYDRANT	EA.	1	1	1	1
629.04.00	RELOCATE AND/OR ADJUST WATER METERS	EA.	2	2	2	2
629.22.08	RELOCATE 8" WATER MAIN	EA.	3	3	3	3
629.23.00	RELOCATE FIRE HYDRANT	EA.	2	2	2	2
629.30.08	8" WATER MAIN CONC. BEARING PAD	EA.	1	1	1	1
629.30.24	24" WATER MAIN CONC. BEARING PAD	EA.	6	6	6	6
630.01.20	ADJUST CLV SEWER MANHOLE	EA.	17	17	17	17
623T.04.00	TEMPORARY TRAFFIC CONTROL SYSTEM-SAHARA AVENUE	L.S.	1	1	1	1
633.11.00	NON-REFLECTIVE PAVEMENT MARKERS	EA.	5,330	5,330	5,330	5,330
633.12.00	REFLECTIVE PAVEMENT MARKERS	EA.	1,956	1,956	1,956	1,956
633.13.00	PAVEMENT MARKING FILM	L.S.	1	1	1	1
627.00.20	PERMANENT SIGNS (GROUND MOUNTED)	S.F.	963	963	963	963

ADDITIVE - DEDUCTIVE ITEMS

ITEM NO.	DESCRIPTION	UNIT	AMOUNT
203.11.00	TRENCH OVER - EXC. AND COMPACTED IMPORTED AGG. BEDDING	C.Y.	289
203.12.00	CHANGES IN EARTHWORK QUANTITIES BEFORE INITIAL TRENCHING	C.Y.	289
203.13.00	INCREASE IN EARTHWORK QUANTITIES AFTER INITIAL TRENCHING	C.Y.	289
629.30.15	1-1/2" WATER SERVICE	L.F.	229
629.30.20	2" WATER SERVICE	L.F.	62
629.32.06	6" ACP	L.F.	277
629.32.08	8" ACP	L.F.	41
629.35.80	KOPEL TAP & VALVE (8" TAPPED TO 24" SCCP)	EA.	4
629.36.60	ACP TAPPING SLEEVE & VALVE (6" TAPPED TO 16")	EA.	8
629.36.80	ACP TAPPING SLEEVE & VALVE (8" TAPPED TO 16")	EA.	4
629.37.60	6" ACP BLOW-OFF ASSEMBLY	EA.	8
629.37.80	8" ACP BLOW-OFF ASSEMBLY	EA.	4
630.01.20	ADJUST CC SANITARY SEWER MANHOLE GRADE RINGS	EA.	57
630.01.21	ADJUST SANITARY SEWER MANHOLE CONE OR FLAT TOP	EA.	5
630.31.48	48" I.D. SEWER MANHOLE	EA.	5
630.31.60	60" I.D. SEWER MANHOLE	EA.	2
630.33.14	4" VCP WITH VC DISC	L.F.	110
630.33.16	6" VCP WITH VC DISC	L.F.	108
630.33.18	8" VCP WITH VC DISC	L.F.	746
630.23.10	RELOCATE SEWER SERVICE LATERAL	EA.	400
661.00.01	2-4" TELEPHONE LATERAL	L.F.	540
661.00.02	2" GAS LATERAL	L.F.	540

ABBREVIATIONS

A.C.	ASPHALTIC CONCRETE
ADJ.	ADJUST
B.C.	BACK OF CURB
B.C.R.	BACK OF CURB RADIUS
C.	CENTERLINE
CC	CLARK COUNTY
C & G	CURB & GUTTER
CDW	COMMERCIAL DRIVEWAY
CONC.	CONCRETE
CONSTR.	CONSTRUCT
C.T.B.	CEMENT TREATED BASE
D.G.	DENSE GRADE
D.I.	DRAIN INLET
D.W.	DRIVEWAY
E.	EXIST.
E.O.	EDGE OF OIL (PAVEMENT)
EXP.	EXPANSION
F.C.	FACE OF CURB
F.G.	FINISHED GRADE
F.H.	FIRE HYDRANT
FL.	FLOW LINE
G.	GAS
GB	GRADE BREAK
HT.	HEIGHT
INV.	INVERT
ISL.	ISLAND
INTER.	INTERSECTION
L.	LENGTH
LT.	LEFT
LVWD	LAS VEGAS VALLEY WATER DISTRICT

(ABBREVIATIONS CONT.)

MED.	MEDIAN
M.H.	MANHOLE
N.	NORTH
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
O.G.	OPEN GRADE
P.B.	PULLBOX
P.C.	POINT OF CURVATURE
P.C.C.	POINT OF COMPOUND CURVATURE
P.R.C.	POINT OF REVERSE CURVATURE
P.T.	POINT OF TANGENCY
P.V.M.	PAVEMENT
PL.	PROPERTY LINE
R.	RADIUS, RADIAL
R.C.B.	REINFORCED CONCRETE BOX
R.C.P.	REINFORCED CONCRETE PIPE
RT.	RIGHT
R/W	RIGHT-OF-WAY
S.	SEWER, SOUTH
SCCP	STEEL CONCRETE COATED PIPE
S.D.	STORM DRAIN
S.D.M.H.	STORM DRAIN MANHOLE
SEC.	SECTION
S.H.P.	STEEL HIGH PRESSURE
SHT.	SHEET
SMH	SEWER MANHOLE
SFA	STATION
STD.	STANDARD
STL.	STEEL
SW	SIDEWALK

CONSTRUCTION NOTES

- ① LIMITS OF CONSTRUCTION.
- ② REMOVE A.C. PAVEMENT.
- ③ REVISE TRAFFIC SIGNAL SYSTEM PER TRAFFIC SIGNAL PLAN.
- ④ REMOVE AND RELOCATE EXISTING TRAFFIC SIGN (BY OTHERS).
- ⑤ REVISE STREET LIGHTING SYSTEM, PER STREET LIGHTING PLAN.
- ⑥ EXISTING POWER AND/OR TELEPHONE POLE TO BE RELOCATED BY OTHERS.
- ⑦ REMOVE 14" DIA. AND LARGER TREES. SEE RESTORATION PLAN.
- ⑧ CONSTRUCT 24" "L" TYPE CURB & GUTTER.
- ⑨ CONSTRUCT 4" THICK CONCRETE SIDEWALK.
- ⑩ CONSTRUCT MEDIAN ISLAND PER STREET CROSS-SECTIONS AND SPECIAL DETAILS.
- ⑪ CONSTRUCT A.C. PAVEMENT PER STREET CROSS-SECTIONS.
- ⑫ CONSTRUCT WHEELCHAIR RAMP.
- ⑬ SAWCUT AND REMOVE 1/2" LENGTH OF SIDEWALK & GUTTER AT CENTER OF CURB RETURN. CONSTRUCT WHEELCHAIR RAMP IN PLACE THEREOF.
- ⑭ EXISTING SIDEWALK TO REMAIN.
- ⑮ EXISTING CURB AND GUTTER TO REMAIN.
- ⑯ SAWCUT LINE.
- ⑰ LIMITS OF OPEN GRADE AND TAC STRUCTURAL SECTION.
- ⑱ SEE RESTORATION PLAN FOR ON-SITE CONSTRUCTION.
- ⑲ SEE STORM DRAIN PROFILES AND DETAILS ON SHEETS 36 AND 37.
- ⑳ CONNECT PROPOSED SEWER LATERAL TO SEWER MAIN OR MANHOLE, AND EXTEND TO R AS SHOWN, CAP END WITH V.C. DISC.
- ㉑ CONNECT PROPOSED WATER SERVICE TO WATER MAIN AND EXTEND TO R AS SHOWN ON LVWD STD. PLATE #10 OR #12. CAP END AT R.
- ㉒ CONNECT PRO. 6" OR 8" ACP WATER SERVICE