

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD DRAWINGS AND "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" 1978, OF THE CITY OF LAS VEGAS, NEVADA, UNLESS OTHERWISE SPECIFIED BY NOTE ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON PLANS FOR CONTRACTORS' CONVENIENCE WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THE CITY OF LAS VEGAS ASSUMES NO RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT OF RECORD, OR NOT IN THE LOCATION OF RECORD. THE CONTRACTOR'S LIABILITY REGARDING ANY DAMAGED UTILITY IS SET FORTH IN SECTION 105 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ALL EXISTING STREET IMPROVEMENTS REMAINING IN PLACE, AND ANY STREET IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR RECONSTRUCTED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING IMPROVEMENTS, TREES, SHRUBS, WALLS, FENCES, SIGNS, STRUCTURES, PRIVATE LIGHT POLES, ETC., UNLESS DIRECTED TO DO SO BY NOTE ON THE PLANS OR BY THE ENGINEER.
- EXISTING IMPROVEMENTS, TREES, SHRUBS, WALKS, FENCES, SIGNS, STRUCTURES, ETC. WITHIN THE STREET RIGHT-OF-WAY THAT WILL INTERFERE WITH CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- ALL REPLACEMENT, RELOCATION OR RECONSTRUCTION OF EXISTING IMPROVEMENTS, FENCES, SPRINKLER SYSTEMS, SHRUBS, SIGNS, STEPS, SIDEWALKS, DRIVEWAYS, PRIVATE LIGHT POLES AND ALL OTHER OBJECTS PERTINENT TO THIS CONTRACT SHALL BE DONE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BACKFILL, GRADE AND CLEAN-UP ALL CUT OR FILL SLOPES TO MEET EXISTING CONDITIONS. WHERE LAWS ARE EXISTING THE CONTRACTOR SHALL RESEED AND/OR SOO THE AFFECTED AREA TO ACHIEVE A CONDITION EQUAL TO, OR BETTER THAN BEFORE. MAXIMUM SLOPE-4 TO 1. COST TO BE INCLUDED IN PRICE BID ON OTHER ITEMS.
- ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS TO BE USED DURING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF NEVADA "TRAFFIC CONTROL MANUAL" ISSUE OF JUNE, 1980, AND WITH THE U.S. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AVAILABLE FROM THE DIVISION OF TRAFFIC ENGINEERING, 400 E. STEWART AVENUE.
- THE OWNING UTILITY COMPANY SHALL BE RESPONSIBLE FOR REMOVAL OR RELOCATION OF ALL POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POLES AND RELATED APPURTENANCES THAT INTERFERE WITH REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS, AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS".
- NA
- THE CONTRACTOR SHALL NOTIFY THE UNITED STATES POST OFFICE REGARDING THE NECESSITY OF REMOVING AND RELOCATING ALL U.S. MAILBOXES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF SANITARY SEWER MANHOLES TO THE REQUIRED GRADE AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SECTION 609.03.02 AND APPLICABLE PORTIONS OF SECTION 609 OF THE "STANDARD SPECIFICATIONS".
- THE SOUTHWEST GAS COMPANY SHALL BE RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL GAS LINES AND RELATED APPURTENANCES THAT INTERFERE WITH REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS.
- THE CENTRAL TELEPHONE CO. SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL CENTRAL TELEPHONE CO. MANHOLES TO THE REQUIRED FINISHED GRADE AS SHOWN ON THE PLANS.
- PRIOR TO ANY TYPE OF CONSTRUCTION IN THE AREA OF AN EXISTING SEWER, THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO THE RAIN IN THE FORM OF A SPLIT CIRCLE OF MINIMUM 3/4" PLYWOOD HAVING A DIAMETER NOT MORE THAN 4" SMALLER THAN THE INSIDE DIAMETER AT THE BOTTOM OF THE MANHOLE. THE SECTIONS OF THE CIRCLE SHALL BE HELD IN PLACE BY A MINIMUM OF TWO SCABS NAILED SECURELY ACROSS THE JOINT. THE JOINT SHALL BE PLACED TRANSVERSELY TO THE FLOW LINE OF THE MAIN. ANY SUBSTITUTE METHOD OF PROTECTION MAY BE USED PROVIDED IT IS APPROVED BY THE ENGINEER. THE CITY SHALL ROD THE SEWER LINE PRIOR TO CONSTRUCTION AND THE CONTRACTOR SHALL BALL AND CLEAN THE SEWER LINE PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE CITY.
- CLASS B CONCRETES SHALL BE USED ON THIS PROJECT, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE CITY OF LAS VEGAS FIRE DEPARTMENT FOR THE LOCATION OF ALL FIRE ALARM CONDUIT AND RELATED APPURTENANCES THAT MAY INTERFERE WITH REQUIRED IMPROVEMENTS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE CITY OF LAS VEGAS ELECTRICAL DIVISION FOR THE LOCATION OF ALL ELECTRICAL CONDUIT AND RELATED APPURTENANCES THAT MAY INTERFERE WITH REQUIRED IMPROVEMENTS PRIOR TO CONSTRUCTION.
- ALL MANHOLES ARE TO BE CONSTRUCTED ACCORDING TO THE CITY OF LAS VEGAS STANDARD DRAWING 512-2 OR AS DESIGNATED ON THE CONTRACT DRAWINGS.
- THE SOUTHWEST GAS COMPANY SHALL BE REQUIRED TO LOWER ALL GAS VALVES TO THE SUBGRADE ELEVATION. THE VALVES SHALL BE RAISED TO FINISH GRADE AFTER THE ASPHALT PAVEMENT HAS BEEN PLACED.
- THE CENTRAL TELEPHONE COMPANY SHALL BE REQUIRED TO LOWER ALL MANHOLES TO SUBGRADE ELEVATION OR TO THE TOP OF EXISTING CONE, WHICHEVER IS HIGHER. THE MANHOLES SHALL BE PLATED, AND RAISED TO FINISH GRADE AFTER THE ASPHALTIC PAVEMENT HAS BEEN PLACED.

LEGEND

C, C.L., ----- = CENTER LINE	○ = POWER POLE
SEC, ----- = SECTION LINE	○ = POWER POLE WITH GUY ANCHOR
R.W., R/W, ----- = RIGHT OF WAY	□ = TRAFFIC SIGN
H.L., ----- = HINGE LINE	○ = EXISTING STREET LIGHT
EXIST, EX, ----- = EXISTING	○ = EXISTING DROP INLET, GUTTER TYPE
P.T., = POINT OF TANGENCY	○ = EXISTING DROP INLET, CURB TYPE
P.C., = POINT OF CURVATURE	○ = PROPOSED DROP INLET, TYPE "B"
P.I., = POINT OF INTERSECTION	○ = PROPOSED DROP INLET, TYPE "A"
R.P., = RADIUS POINT	○ = EXISTING A.C. TO BE REMOVED
RAD, R, = RADIUS	○ = CENTER LINE WITH STATION
W, ----- W ----- W ----- = WATER	○ = CUTLINE, ASPHALT OR CONCRETE
P, ----- P ----- P ----- = POWER	○ = EXISTING FENCE
G, ----- G ----- G ----- = GAS	○ = EXISTING CONCRETE (C&G, S/W, V.G.)
T, TELE, ----- T ----- T ----- = TELEPHONE	○ = BREAK LINE
ST, ----- ST ----- ST ----- = STORM DRAIN, EXISTING	○ = PROPOSED STORM DRAIN PIPE
S, ----- S ----- S ----- = SANITARY SEWER	○ = POSTS TO BE REMOVED (AS NOTED ON PLANS)
S.S.P., = STORM SEWER PIPE	○ = EXISTING STORM DRAIN MANHOLE
V.C.P., = VITRIFIED CLAY PIPE	○ = CORRUGATED METAL PIPE
A.C.P., = ASBESTOS CONCRETE PIPE	○ = TRAFFIC SIGNAL
R.C.P., = REINFORCED CONCRETE PIPE	○ = SIGNAL
D.I., = DROP INLET	○ = STORM DRAIN
J.B., = JUNCTION BOX	○ = TRAFFIC
M.H., = MANHOLE	○ = AGGERGATE
INV., = INVERT	○ = EXPANSION
ELEV., = ELEVATION	○ = CLEAR
T.B.M., = TO BE REMOVED	○ = CITY OF LAS VEGAS
T.B.R., = TO BE RELOCATED	○ = SPECIAL IMPROVEMENTS DISTRICT
T.B.A., = TO BE ADJUSTED	○ = ALTERNATE
CONC., = CONCRETE	
A.C., = ASPHALTIC CONCRETE	
BITUM., = BITUMINOUS	
E.O., = EDGE OF OIL	
CONST., = CONSTRUCT, CONSTRUCTION	
TEMP., = TEMPORARY	
TRANS., = TRANSITION	
COMM., = COMMERCIAL	
PROP., = PROPOSED	
S.H.P., = STEEL HIGHPRESSURE PIPE	
FL., = FLOW LINE	
FG., = FINISH GRADE	
GND., = GROUND	
PAV'T., P.V.M.T., = PAVEMENT	
G.B., = GRADE BREAK	
F-F, = FACE TO FACE	
C-C, = CENTER TO CENTER	
O-C, = ON CENTER	
T.C., = TOP OF CURB	
B.C., B/C, = BACK OF CURB	
V.G., = VALLEY GUTTER	
ST., = STREET	
ST. LIGHT, = STREET LIGHT	
C&G, = CURB & GUTTER	
S/W, = SIDEWALK	
DWY., D/W, = DRIVEWAY	
STA., = STATION	
ISL., = ISLAND	
SP., = SPECIAL	
DIA., = DIAMETER	
P.P., = POWER POLE	
TYP., = TYPICAL	
F.H., = FIRE HYDRANT	
W.V., = WATER VALVE	
MIN., = MINIMUM	
(N) = NORTH E = EAST	
(S) = SOUTH W = WEST	
SHT., = SHEET	
TR. SIG., = TRAFFIC SIGNAL	
LT., = LEFT	
RT., = RIGHT	
/// = EXIST. A.C. TO REMAIN	
ASPH., = ASPHALTIC	
P.L., = PROPERTY LINE	
COL., = COLUMN	
RES., = RESIDENTIAL	
◆ = SURVEY MONUMENT	
○ = CURVE DATA	
① = VARIABLE DISTANCE	
⊗ = EXISTING TELEPHONE MANHOLE	
⊗ = EXISTING GAS OR WATER VALVE	
⊗ = PROPOSED STORM DRAIN MANHOLE	
⊗ = EXISTING FIRE HYDRANT	
⊗ = TEST HOLE	
⊗ = EXISTING WATER METER	
□ = PULL BOX	
○ = EXISTING TREADLE	
⊗ = EXISTING SEWER MANHOLE	
⊗ = EXISTING POWER MANHOLE	
⊗ = PROPOSED JUNCTION BOX	

TOTAL APPROXIMATE QUANTITIES-BID GROUP 1

ITEM	DESCRIPTION	CLARK COUNTY	C.L.V.	S.I.D.	CLARK CO. S.I.D.	C.L.V. S.I.D.	TOTAL	UNIT
203.00.01	ROADWAY EXCAVATION	27,155		1,837	651	3,231	32,874	C.Y.
203.00.01A	SCARIFIED & RECOMPACTED SUBGRADE	57,315		1,942	1,645	7,777	68,679	S.Y.
302.00.01	TYPE 1 GRAVEL BASE	20,229		520	398	1,819	22,966	C.Y.
302.00.02	TYPE 2 GRAVEL BASE	6,822		409	143	1,306	8,680	C.Y.
401.00.10	A.C. PAVEMENT	17,456		338	333	1,300	19,427	TON
406.00.01	BITUMINOUS PRIME COAT	18,126		371	343	1,335	20,175	GAL
609.03.02	ADJUST MANHOLE		18				18	E.A.
609.03.06	ADJUST WATER VALVE	29					29	E.A.
613.00.01	24" "L" TYPE CURB & GUTTER	403		1,428	37	4,951	6,819	L.F.
613.00.08	CONCRETE SIDEWALK	1,922		9,919	220	29,515	41,576	S.F.
613.00.09	COMMERCIAL DRIVEWAY			899		288	1,187	S.F.
613.00.10	RESIDENTIAL DRIVEWAY	210		184			394	S.F.
613.00.12	CONCRETE ISLAND	3,728					3,728	S.F.
613.00.13	WHEELCHAIR RAMP	537		244	72	596	1,449	S.F.
613.00.14	ALLEY GUTTER	270		232			502	S.F.
613.00.15	RETAINING WALL (CONCRETE)	316					316	L.F.
618.00.01	WARNING RAIL	100					100	L.F.
626.00.01	FINAL CLEAN-UP	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.
702.00.01	CONCRETE REMOVAL	L.S.					L.S.	L.S.

ADDITIVE ITEMS

203.00.02	OVER EXCAVATION	7,000					7,000	C.Y.
401.00.99	TEMPORARY A.C. PAVEMENT	L.S.					L.S.	L.S.
609.03.07	ADJUST WATER SERVICE CONNECTION	5					5	E.A.
613.00.100	REMOVE AND REPLACE CURB & GUTTER	200					200	L.F.
613.00.101	REMOVE AND REPLACE SIDEWALK	1,000					1,000	S.F.
403.00.01	3/4" INCH OPENGRADE PLANTMIX SURFACING	49,670	4,440	1,150	310		55,570	S.Y.

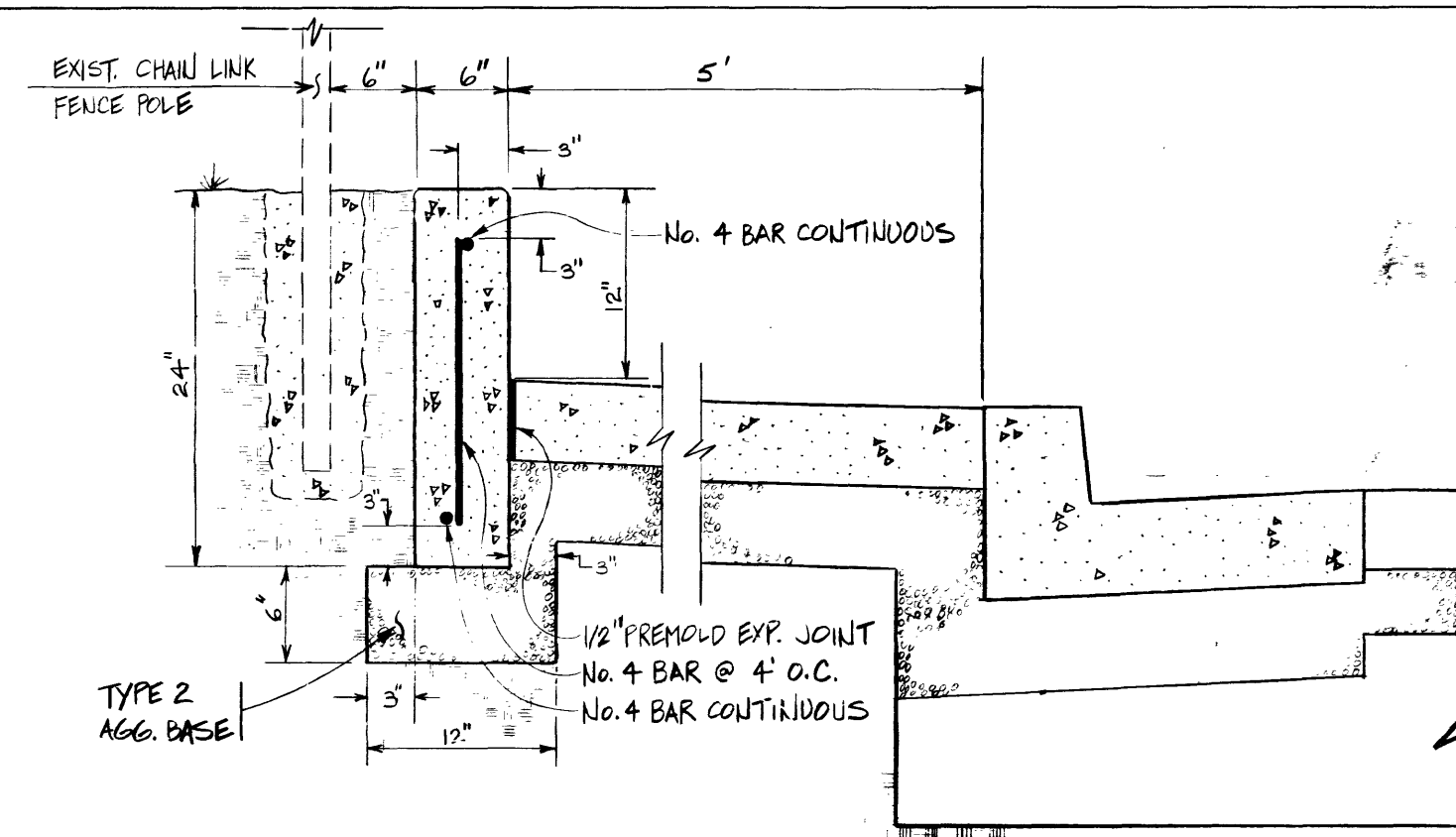
TOTAL APPROXIMATE QUANTITIES-ALTERNATE BID GROUP 1B *

ITEM	DESCRIPTION	CLARK COUNTY	C.L.V.	S.I.D.	CLARK CO. S.I.D.	C.L.V. S.I.D.	TOTAL	UNIT
202.00.01	CONCRETE REMOVAL	L.S.					L.S.	L.S.
203.00.01	ROADWAY EXCAVATION	30,965		2,095	743	3,683	37,486	C.Y.
203.00.01A	SCARIFY & RECOMPACT SUBGRADE	57,315		1,942	1,645	7,777	68,679	S.Y.
302.00.01	TYPE 1 GRAVEL BASE	20,229		520	398	1,819	22,966	C.Y.
302.00.02	TYPE 2 GRAVEL BASE	9,840		487	206	1,517	12,104	C.Y.
401.00.10	ASPHALTIC CONCRETE P.V.M.T.	24,654		471	445	1,817	27,407	TON
406.00.01	BITUMINOUS PRIME COAT	18,126		371	343	1,335	20,175	GAL
609.03.02	ADJUST MANHOLE		18				18	E.A.
609.03.06	ADJUST WATER VALVE	29					29	E.A.
613.00.01	24" "L" TYPE CURB & GUTTER	403		1,428	37	4,951	6,819	L.F.
613.00.08	CONCRETE SIDEWALK	1,922		9,919	220	29,515	41,576	S.F.
613.00.09	COMMERCIAL DRIVEWAY			899		288	1,187	S.F.
613.00.10	RESIDENTIAL DRIVEWAY	210		184			394	S.F.
613.00.12	CONCRETE ISLAND	3,728					3,728	S.F.
613.00.13	WHEELCHAIR RAMP	537		244	72	596	1,449	S.F.
613.00.14	ALLEY GUTTER	270		232			502	S.F.
613.00.15	RETAINING WALL	316					316	L.F.
618.00.01	WARNING RAIL	100					100	L.F.
626.00.01	FINAL CLEAN-UP	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.

ADDITIVE ITEMS

203.00.02	OVER EXCAVATION	7,000					7,000	C.Y.
401.00.99	TEMPORARY A.C. P.V.M.T.	L.S.					L.S.	L.S.
609.03.07	ADJUST WATER SERVICE CONNECTION	5					5	E.A.
613.00.100	REMOVE & REPLACE CURB & GUTTER	200					200	L.F.
613.00.101	REMOVE & REPLACE SIDEWALK	1,000					1,000	S.F.
403.00.01	3/4" OPENGRADE PLANTMIX SURFACING	49,670	4,440	1,150	310		55,570	S.Y.

- *NOTE: 1. QUANTITIES SHOWN ON SHEETS 4 THROUGH 10 REPRESENT BID GROUP 1 QUANTITIES ONLY.
2. SHEET 19 INDICATES TOTAL APPROX. QUANTITIES FOR ALTERNATE BID GROUP 1A & 1C.
3. SHEET 2 INDICATES TOTAL APPROX. QUANTITIES FOR BID GROUP 1 & ALTERNATE BID GROUP 1B.
4. IF BID GROUP 1 IS AWARDED, IT WILL BE IN CONJUNCTION WITH ALT. BID GROUP 1A.
5. IF ALT. BID GROUP 1B IS AWARDED, IT WILL BE IN CONJUNCTION WITH ALT. BID GROUP 1C.



CONCRETE RETAINING WALL DETAIL..

SCALE: 1"=1'

- NOTES:
- ALL EXPOSED CONCRETE SURFACES SHALL HAVE A FRESH FINISH.
 - PREMOLD EXPANSION JOINT TO BE CONSISTANT WITH SAW JOINTS FOR RETAINING WALL.
 - ALL CONCRETE SHALL BE A MONOLITHIC POUR.
 - TOP CORNERS OF RETAINING WALL TO BE FORMED WITH 1/8" R.

CONTRACT DRAWING

DEC 21 1981

Engineering Design Division

BONANZA ROAD

EASTERN AVE. to PECOS DR

LEGEND, GENERAL NOTES

DETAILS, TOTAL QUANTITIES

W. U. no. 218

Date

Design by C. KREHNOVI

Approved by the Director of Public Services

Revisions

107-V849A

2

57