C.C. TRAFFIC NOTES

1. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFFSITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
2. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY GROUND MOUNTED STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
3. ALL CONSTRUCTION SIGNS, BARRICADES AND PAVEMENT MARKINGS SHALL CONFORM TO THE "NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK, 1986", AND TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
4. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING PAVEMENT MARKING, SUCH MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE COUNTY TRAFFIC MANAGER.
5. THE DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY STANDARDS. ALL SIGNS SHALL USE TYPE III SHEETING.
6. IF A PROPOSED STREET LIGHT STANDARD IS FIELD LOCATED WITHIN FIVE (5) FEET OF ANY SIGN SHOWN HEREON TO BE MOUNTED ON A SIGN POST, THEN CHANGE SIGN MOUNTING TO ONE ON THE STREET LIGHT STANDARD.
7. PRIOR TO CONSTRUCTION, THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE CURRENT PLANNING DIVISION OF THE DEPARTMENT OF COMPREHENSIVE PLANNING.
8. ALL TRAFFIC SIGNAL POLE ASSEMBLIES, STEEL PEDESTALS FOR CABINETS, AND STREET LIGHT POLES SHALL BE GALVANIZED PER ASTM A-123.
9. ALL STREET LIGHTING INSTALLATIONS, EXCEPT AS NOTED ON THE STREET LIGHTING PLANS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA, LATEST EDITION OF EACH.
10. THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA STREET LIGHTING, TRAFFIC SIGNALS, FREEWAY ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.) INTERCONNECT CABLE. YOU MUST CONTACT CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OPERATIONS UNIT AT 455-7511 FOR LOCATIONS AT LEAST 48 HOURS PRIOR TO WORKING IN THE AREA. CLARK COUNTY IS NOT A MEMBER OF "CALL BEFORE YOU DIG" (UNDERGROUND SERVICE ALERT), AND A CALL TO THAT ORGANIZATION DOES NOT RELIEVE YOU OF LIABILITY FOR CLARK COUNTY FACILITIES.
11. F.A.S.T INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER/CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED. TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO THE COUNTY TRAFFIC MANAGER AND TO F.A.S.T. ANY DAMAGE TO THE CABLE IS DEEMED IN EMERGENCY BY F.A.S.T, CITY OF LAS VEGAS, CLARK COUNTY AND NDOT, AND MUST BE REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. $2,500 PER DAY DAMAGES MAY BE ASSESSED AFTER 24 HOURS HAS ELAPSED FROM TIME OF BREAK OR DAMAGE.
12. ALL NEW OR REPLACEMENT TRAFFIC SIGNAL LOOPS SHALL BE INSTALLED USING CABLE-IN-DUCT WIRING, SHALL HAVE INDEPENDENT LEAD-IN WIRES FOR EACH LOOP FROM THE CONTROLLER TO THE PULL-BOX, AND EACH LEAD-IN SHALL BE INDIVIDUALLY TAGGED.
13. TRAFFIC SIGNAL PEDESTRIAN HEADS SHALL BE L.E.D.
14. ELECTRICAL POWER SERVICE POINT LOCATION(S) FOR STREET LIGHTING AND TRAFFIC SIGNALS MUST BE INDICATED ON THE PLANS. IF CONNECTING TO AN EXISTING CIRCUIT, INDICATE LOCATION OF EXISTING SERVICE POINT FOR EACH CIRCUIT.
15. WHEN STREET LIGHTS ARE TO BE CONNECTED TO AN EXISTING CIRCUIT, AN ELECTRICAL ENGINEER OR A CLARK COUNTY APPROVED LICENSED ELECTRICIAN MUST CERTIFY THAT THE EXISTING CIRCUIT IS CAPABLE OF HANDLING THE ADDITIONAL CIRCUIT LOAD.
16. CLARK COUNTY RESERVES THE RIGHT TO REJECT STREET LIGHT AND TRAFFIC SIGNAL POLES AND ASSEMBLIES WHICH HAVE A "STRIPPED" APPEARANCE.
17. PRIOR TO BEGINNING OF CONSTRUCTION, MODIFICATION, OR RELOCATION OF ANY TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, FOR THE DATE THAT WORK WILL BEGIN.
18. THREE (3) NORMAL WORKING DAYS PRIOR TO TURN-ON OR COMPLETION OF MODIFICATION(S) TO A TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION THAT THE WORK IS BEING COMPLETED AND THE PROPOSED DATE OF COMPLETION.

NOTICE TO CONTRACTOR

EXISTING UTILITIES ARE LOCATED ON THE PLAN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY! THE ENGINEER BEARS NO RESPONSIBILITY FOR THE LOCATION OF UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE STARTING CONSTRUCTION AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION BOTH HORIZONTAL AND VERTICAL OF ALL UTILITIES WITH THE UTILITY COMPANIES.

THE CONTRACTOR SHALL POT HOLE AND VERIFY ALL UTILITIES PRIOR TO ACTUAL CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY WOOD-RODGERS INC. A MINIMUM OF 48 HOURS IN ADVANCE. WOOD-RODGERS INC. SHOULD HAVE A FIELD CREW PRESENT DURING POT HOLE WORK IN ORDER TO VERIFY HORIZONTAL AND VERTICAL LOCATION.

NOTE:

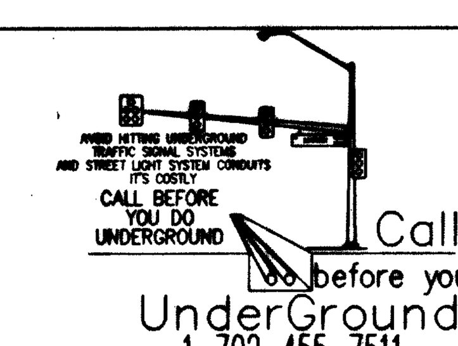
THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF L.V.V.W.D. FACILITIES.

Avoid cutting underground utility lines. It's costly.

Call before you Dig

1-800-227-2600

105304



Call before you UnderGround

1-702-455-7511

CLARK COUNTY TRAFFIC OPERATIONS AND

1-702-229-6611

LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

Avoid overhead power line contact. It's costly.

Call before you OVERHEAD

1-702-227-2929

10164700

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS" AND THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES IN PAVED STREETS EIGHTY (80') FOOT R/W AND LARGER, SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCHES (12") DIAMETER. CONNECTIONS TO FIFTEEN INCHES (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" 'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCHES (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REV. DATE APR 2003 GJK

NOTE:

1. THE CONTRACTOR SHALL USE AND/OR CAP ALL EXISTING WYE'S PREVIOUSLY INSTALLED WITH THE CONSTRUCTION OF THE SEWER MAIN. THE CONTRACTOR SHALL VERIFY THE LOCATION DURING INSTALLATION OF THE SEWER LATERALS AND ADJUST THE LOCATION OF THE LATERALS AS NEEDED. IN NO CASE MAY A LATERAL BE PLACED UNDER A DRIVEWAY.

2. IF THE SEWER MAIN IS OVER THE WATER MAIN, OR LESS THAN 18 INCHES UNDER THE WATER MAIN, THEN CONCRETE ENCASE THE SEWER MAIN 10 FEET ON BOTH SIDES OF THE WATER MAIN, OR USE WATER QUALITY PIPE.

CLARK COUNTY DEPARTMENT OF DEVELOPMENT SERVICES CIVIL ENGINEERING DIVISION NOTES

1. INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE, 455-4610. YOUR PERMIT, APPROVED PLANS, AND BARRICADE PLANS FOR THIS WORK MUST BE ON THE JOB SITE AT ALL TIMES.
2. EXACT LOCATION OF ALL SAW-CUT LINES SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
3. CURB AND GUTTER WITH A GRADE OF LESS THAT 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
4. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF (1/2") INCH ABOVE THE LIP OF THE GUTTER (INCLUDING OPEN GRADE).
5. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST REVISION.
6. PRIVATE STREETS, CURB & GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.
7. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
8. PROPER SIGNS, BARRIERS, BARRICADES AND LIGHTS SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE LATEST "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". TRAFFIC, SCHOOL, OR STREET SIGNS OF ANY KIND ARE NOT TO BE MOVED FOR ANY REASON WITHOUT FIRST COORDINATING WITH THE DEPARTMENT OF DEVELOPMENT SERVICES, CIVIL ENGINEERING DIVISION INSPECTOR @455-4610
9. THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.
10. NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN (10') IF ANY TRAVEL-WAY EXCEPT WHEN WORK IS IN ACTUAL PROGRESS. AREAS COVERED BY ACCEPTABLE STEEL PLATE ARE NOT TO BE CONSTRUED AS A TRENCH. NO OPEN TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATIONS IN A SIGNAL DAY, WHICH EVER IS GREATER. ALL TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATION UNLESS OTHERWISE STATED.
11. A TEMPORARY PATCH IS TO BE IN PLACE AT THE END OF EACH WORK DAY WHERE THE BACKFILL IN THE TRENCH HAS BEEN COMPLETED AND PRIOR TO OPENING THE WORK AREA BACK TO TRAFFIC AND IS TO BE MAINTAINED BY THE PERMITEE. A PERMANENT PATCH IS TO BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE INSTALLATIONS OF THE TEMPORARY PATCH.
12. COMPACTION TESTS ARE REQUIRED.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 9LV90 14C4

A RIVET AND PLATE IN A CONCRETE PAD (POWER) AT THE SOUTHWEST CORNER OF FARM ROAD AND TORREY PINES DRIVE.

ELEVATION=717.2224 METERS (NAVD'88)
ELEVATION=2353.09 U.S. SURVEY FEET (NAVD'88)

BASIS OF BEARING

NORTH 89°38'01" WEST, BEING THE BEARING OF THE NORTH LINE OF THE SOUTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 14, TOWNSHIP 19 SOUTH, RANGE 60 EAST, MDM, CLARK COUNTY, NEVADA, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE.

C.C. FIRE DEPARTMENT NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE 2005 CLARK COUNTY FIRE CODE, AND THE 2002 EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION #24.
2. ON ANY BUILDING CONSTRUCTION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH THE REQUIRED WATER SUPPLY.
3. IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT MUST BE CONTACTED.
4. PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY, SHALL BE PER THE FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION BUREAU.
5. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 5 FEET OF ANY DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE, AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.
6. AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROAD(S) MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED, AND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES.
7. PRIOR TO ACCEPTANCE OF ANY FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.
8. BLUE REFLECTIVE MARKERS MUST BE INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED [2005 CLARK COUNTY FIRE CODE, SEC. 901.4.3].
9. APPROVED FIRE HYDRANTS FOR THIS PROJECT ARE:
   1. KENNEDY – GUARDIAN MODELS K81A AND K81D
   2. MUELLER – SUPER CENTURION 250 MODEL A-423
   3. CLOW – MEDALLION MODEL F-2546LVD
   4. TROY VALVE – PATRIOT MODEL PT8100N NEVADA HYDRANT

QUANTITY ESTIMATE

DESCRIPTION	PUBLIC	PRIVATE
2-INCH ASPHALTIC CONCRETE PAVING	SY	592 SY
3-INCH ASPHALTIC CONCRETE PAVING	SY	5652 SY
4-INCH ASPHALTIC CONCRETE PAVING	5441 SY	SY
5-INCH ASPHALTIC CONCRETE PAVING	SY	SY
OPEN GRADE	SY	SY
TYPE I GRAVEL	CY	CY
TYPE II GRAVEL	1865 CY	1746 CY
EXCAVATION & EMBANKMENTS	884 CY	2800 CY
CURB & GUTTER	LF	2665 LF
FLOWABLE BACKFILL	600 CY	CY
CONCRETE VALLEY GUTTER	2267 SF	1900 SF
4-INCH CONCRETE SIDEWALK	SF	SF
LIGHT STANDARD (STD. BASE)	EA	1 EA
LIGHT STANDARD (BREAKAWAY)	EA	EA
4-INCH SEWER LATERALS	LF	534 LF
8-INCH SEWER (SEE BELOW)		
2-INCH SL CONDUIT	LF	20 LF
SEWER MANHOLES (SEE BELOW)		
SEWER MANHOLE ADJUSTMENTS	EA	EA
6-INCH WATER MAIN	765 LF	LF
8-INCH WATER MAIN	717 LF	LF
10-INCH WATER MAIN	LF	LF
12-INCH WATER MAIN	LF	LF
FIRE HYDRANT	4 EA	EA
FIRE HYDRANT RELOCATION	EA	EA
POWER SERVICE TO LOTS	21 EA	EA
FLOOD CONTROL RCB DOUBLE (10'X3')	145 LF	LF
FLOOD CONTROL CHANNEL (6.5'X4')	410 LF	LF
FLOOD CONTROL CHANNEL TRANSITION	106 LF	LF
FLOOD CONTROL CHANNEL (15'X4')	731 LF	LF
FLOOD CONTROL EXCAVATION	2980 CY	CY
FLOOD/SCREEN WALL	1925 LF	LF
1" WTR SERVICE AND 3/4" METER W/ 1" RPPA	EA	1 EA
1" WATER SERVICE LATERAL AND 1" METER	EA	20 EA
TRAFFIC SIGNAL AND/OR BASE	EA	EA
TRAFFIC SIGNAL UNDERGROUND	LF	LF
TRAFFIC CONTROL DEVICES	LF	LF
SURVEY MONUMENTS	1 EA	EA

NOTE:
THIS QUANTITY ESTIMATE IS FOR BONDING PURPOSES ONLY.
CONTRACTOR TO DETERMINE INDEPENDENT ESTIMATIONS.

PUBLIC SANITARY SEWER QUANTITIES

FOR CLV OVERSIZING AGREEMENT: [ALT] = OVERSIZED

DESCRIPTION	[ALT]	[BASE]
8-INCH SEWER	1426 LF	2351 LF
18-INCH SEWER	95 LF	0 LF
24-INCH SEWER	899 LF	0 LF
48-INCH SEWER MANHOLE	7 EA	9 EA
60-INCH SEWER MANHOLE	2 EA	0 EA
72-INCH LOW DROP SEWER MANHOLE	1 EA	0 EA
72-INCH VALVED SEWER MANHOLE (DETAIL SHEET 15)	1 EA	0 EA

SANITARY SEWER MANHOLE SCHEDULE △

MH#	ID	TYPE	△ STATION	OFFSET	RIM EL	INV (N)	INV (S)	INV (E)	INV (W)
1 [ALT]	60"	SD-1	112+96.63, TORREY PINES DRIVE	19.00' RT	2343.1±	2325.87	2325.67		
1 [BASE]	48"	SD-1	112+96.63, TORREY PINES DRIVE	19.00' RT	2343.1±	2327.29	2327.08		
2 [ALT]	60"	SD-1	108+33.26, TORREY PINES DRIVE	19.00' RT	2345.0±	2327.73	2327.73		2329.26
2 [BASE]	48"	SD-1	108+33.26, TORREY PINES DRIVE	19.00' RT	2345.0±	2329.06	2329.06		2329.26
3	48"	SD-1	11+31.05, SUNLIT PRAIRIE WAY	18.82' LT	2345.9±			2336.14	2336.34
4	48"	SD-1	12+19.30, SUNLIT PRAIRIE WAY	5.00' LT	2345.4±	2336.90	2336.90	2336.70	2336.90
5	48"	SD-8	15+05.59, VELVET SKY STREET	5.00' RT	2344.5±	2338.24			
6	48"	SD-8	10+10.00, VELVET SKY STREET	5.00' RT	2346.9±		2339.50		
7	48"	SD-1	14+85.30, SUNLIT PRAIRIE WAY	5.00' LT	2346.5±	2338.17	2338.17	2337.97	
8	48"	SD-8	14+83.74, PEACE ROSE STREET	5.00' LT	2345.5±	2339.30			
9	48"	SD-8	10+10.00, PEACE ROSE STREET	5.00' LT	2347.8±		2340.50		
15 [ALT]	72"	SD-8	117+56.25, TORREY PINES DRIVE	55.28' LT	2341.8±	2322.00	–	2321.77	2325.12
16 [ALT]	72"	SPECIAL	117+13.24, TORREY PINES DRIVE	17.00' RT	2341.7±	2323.17	2322.97	2322.97	–

LEGEND

SYMBOL	DESCRIPTION
	RIGHT OF WAY
	PROPERTY LINE
	CENTER LINE
	BLOCK WALL
	RETAINING WALL
	UNIT/PARCEL LINE
	EDGE OF PAVEMENT
2284	EXISTING 1' CONTOUR
2280	EXISTING 5' CONTOUR
20	PROPOSED FG CONTOUR
( )	EXISTING
[ ]	PROPOSED BY OTHERS OR FUTURE
1.00%	RATE & DIRECTION OF FLOW
	LOT DRAINAGE SWALE
TOP OF SLOPE / TOE OF SLOPE	CUT OR FILL SLOPE
	EXIST. 250W LUMINAIRE
	EXIST. 200W LUMINAIRE
	EXIST 150W LUMINAIRE
	EXIST. 100W LUMINAIRE
	PROPOSED 400W LUMINAIRE
	PROPOSED 250W LUMINAIRE
	PROPOSED 200W LUMINAIRE
	PROPOSED 150W LUMINAIRE
	PROPOSED 100W LUMINAIRE
	SIDEWALK RAMP
	PAD MOUNTED SERVICE POINT
10	LOT NUMBER
	BLOCK NUMBER
	PRIVATE STREET & DRAINAGE EASEMENT, PUBLIC UTILITY EASEMENT
	EXISTING WATER VALVE
	PROPOSED WATER VALVE
	EXISTING WATER MAIN
8" WATER	PROPOSED WATER MAIN
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE
	EXISTING SANITARY SEWER MAIN
8" SEWER	PROPOSED SANITARY SEWER MAIN
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
EXIST. 24" SD	EXISTING STORM DRAIN
24" SD	PROPOSED STORM DRAIN
	EXISTING DROP INLET
	PROPOSED DROP INLET
	EXISTING CURB & GUTTER
	EXISTING POWER POLE
G	EXISTING GAS MAIN
	STOP SIGN & STREET NAME SIGN
	STREET NAME SIGN
	TRAFFIC SIGN
BWV	BACK WATER VALVE
FF= 89.00	FINISH FLOOR
PAD= 88.2	PAD ELEVATION
	SIGHT VISIBILITY RESTRICTED ZONE

ABBREVIATIONS

ABAN	-ABANDON
AIP	-ABANDONED IN PLACE
AGG	-AGGREGATE
ALT	-ALTERNATE
A	-ANODE, GAS
ACP	-ASBESTOS CEMENT PIPE
AC	-ASPHALTIC CONCRETE
AVE	-AVENUE
BC	-BACK OF CURB
BCR	-BACK OF CURB RADIUS
BVC	-BEGINNING OF VERTICAL CURVE
BM	-BENCH MARK
BDRY LINE	-BOUNDARY LINE
CATV	-CENTER TO CENTER
CL	-CENTERLINE
CBC	-CITY OF BOULDER CITY
CLV	-CITY OF LAS VEGAS
COH	-CITY OF HENDERSON
CM	-CITY OF MESQUITE
CNLV	-CITY OF NORTH LAS VEGAS
CC	-CLARK COUNTY
CCWRD	-CLARK COUNTY WATER RECLAMATION DISTRICT
CO	-CLEAN OUT, SEWER
COL	-COLUMN
COMM	-COMMERCIAL
C.L.	-COMMON LOT
CONC	-PCC CONCRETE
CONST	-CONSTRUCTION OR CONSTRUCT
COR	-CORNER
CMP	-CORRUGATED METAL PIPE
CSAP	-CORRUGATED STEEL ARCH PIPE
CSP	-CORRUGATED STEEL PIPE
C&G	-CURB & GUTTER
CIP	-CAST IRON PIPE
CU YD, CY	-CUBIC YARD
CU FT, CF	-CUBIC FOOT
CULV	-CULVERT
CF	-CURB FACE
DEPT	-DEPARTMENT
DIA	-DIAMETER
DWY	-DRIVEWAY
DI	-DROP INLET
E/O	-EAST OF
EP	-EDGE OF PAVEMENT
EO	-EDGE OF OIL
E	-ELECTRIC
EM	-ELECTRIC METER
ELEV	-ELEVATION
EMBK	-EMBANKMENT
ECR	-END OF CURB RETURN
EC	-END OF CURVE
EBS	-CATHODE PROTECTION BOND STATION
ETS	-CATHODE PROTECTION TEST STATION
ESMT	-EASEMENT
EVC	-END OF VERTICAL CURVE
EXIST	-EXISTING
FF	-FINISH FLOOR
FT	-FEET OR FOOT
FG	-FINISH GRADE
FA	-FIRE ALARM
F.A.S.T	-FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION
FH	-FIRE HYDRANT
FL	-FLOW LINE
GALV	-GALVANIZED
GM	-GAS METER
GR	-GAS PRESSURE REGULATOR
PL-G	-PLASTIC GAS
S-G	-STEEL GAS
GB	-GRADE BREAK
GUT	-GUTTER
HDWL	-HEADWALL
IN	-INCH
INT	-INTERSECTION
INV	-INVERT
ISL	-ISLAND
JB	-JUNCTION BOX
LOC	-LENGTH OF CURB
LT	-LEFT
LF	-LINEAR FEET
LVVWD	-LAS VEGAS VALLEY WATER DISTRICT
MH	-MANHOLE
MAX	-MAXIMUM
MIN	-MINIMUM
MON	-MONOLITHIC
N/O	-NORTH OF
NTS	-NOT TO SCALE
OC	-ON CENTER
OG	-OPEN-GRADED PAVEMENT, ORIGINAL GROUND
PVMT	-PAVEMENT
PE	-PAD ELEVATION
PI	-POINT OF INTERSECTION
PRC	-POINT OF REVERSE CURVE
PC	-POINT OF CURVE
PT	-POINT OF TANGENCY
PCC	-POINT OF COMPOUND CURVE
PCC, CONC	-PORTLAND CEMENT CONCRETE
PP	-POWER POLE
P	-POWER
PL	-PROPERTY LINE
PROP	-PROPOSED
PB	-PULL BOX
PSE	-PUBLIC SEWER EASEMENT
PUE	-PUBLIC UTILITY EASEMENT
RP	-RADIUS POINT
R	-RADIUS
RR	-RAILROAD
REINF	-REINFORCED
RC	-REINFORCED CONCRETE
RCB	-REINFORCED CONCRETE BOX
RCP	-REINFORCED CONCRETE PIPE
RELOC	-RELOCATE
RT	-RIGHT
R/W	-RIGHT-OF-WAY
RD	-ROAD
RPM	-RAISED PAVEMENT MARKER
SS	-SANITARY SEWER
SHT	-SHEET
S/O	-SOUTH OF
SW	-SIDEWALK
SNWA	-SOUTHERN NEVADA WATER AUTHORITY
SQ FT, SF	-SQUARE FOOT
SQ YD, SY	-SQUARE YARD
STA	-STATION
SHP	-STEEL HIGH PRESSURE PIPE
SD	-STORM DRAIN
STD	-STANDARD
STRUCT	-STRUCTURAL OR STRUCTURE
SURV	-SURVEY
SL	-STREETLIGHT
T	-TELEPHONE
TEMP	-TEMPORARY
TBA	-TO BE ADJUSTED
TBR	-TO BE REMOVED
TC	-TOP OF CURB
TO	-TOP OF SLOPE
TP	-TOP OF PIPE
TS	-TRAFFIC SIGNAL
TSI	-TRAFFIC SIGNAL INTERCONNECT
TRANS	-TRANSITION
TYP	-TYPICAL
UG	-UNDERGROUND
VAR	-VARIABLE
VERT	-VERTICAL
VC	-VERTICAL CURVE
VG	-VALLEY GUTTER
VCP	-VITRIFIED CLAY PIPE
W	-WATER
WM	-WATER METER
W/O	-WEST OF
WI	-WROUGHT IRON
YD	-YARD

PROFESSIONAL ENGINEER STATE OF NEVADA – RICHARD P SENECAL – EXP 6/30/08 – CIVIL – No. 11752

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DATE: 21 MAR 2007

HTE# 06-27964
CLV # 307V996

NO.	DESCRIPTION	ENGR INIT	BY	DATE
△	RELOCATED SSMH #1 TO CLEAR EXISTING UTILITIES	RPS	DD.	9.20.07

COUNTY APPROVED

DATE: MARCH 2007
SCALE: H: V:
DRAWN BY: NSA
DESIGNED BY: NSA
CHECKED BY: RPS

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NEVADA

IMPROVEMENT PLANS FOR
WHITEHORSE WEST
GENERAL NOTES

CLARK COUNTY

PROJECT NO. 1881.001

DRAWING 2

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