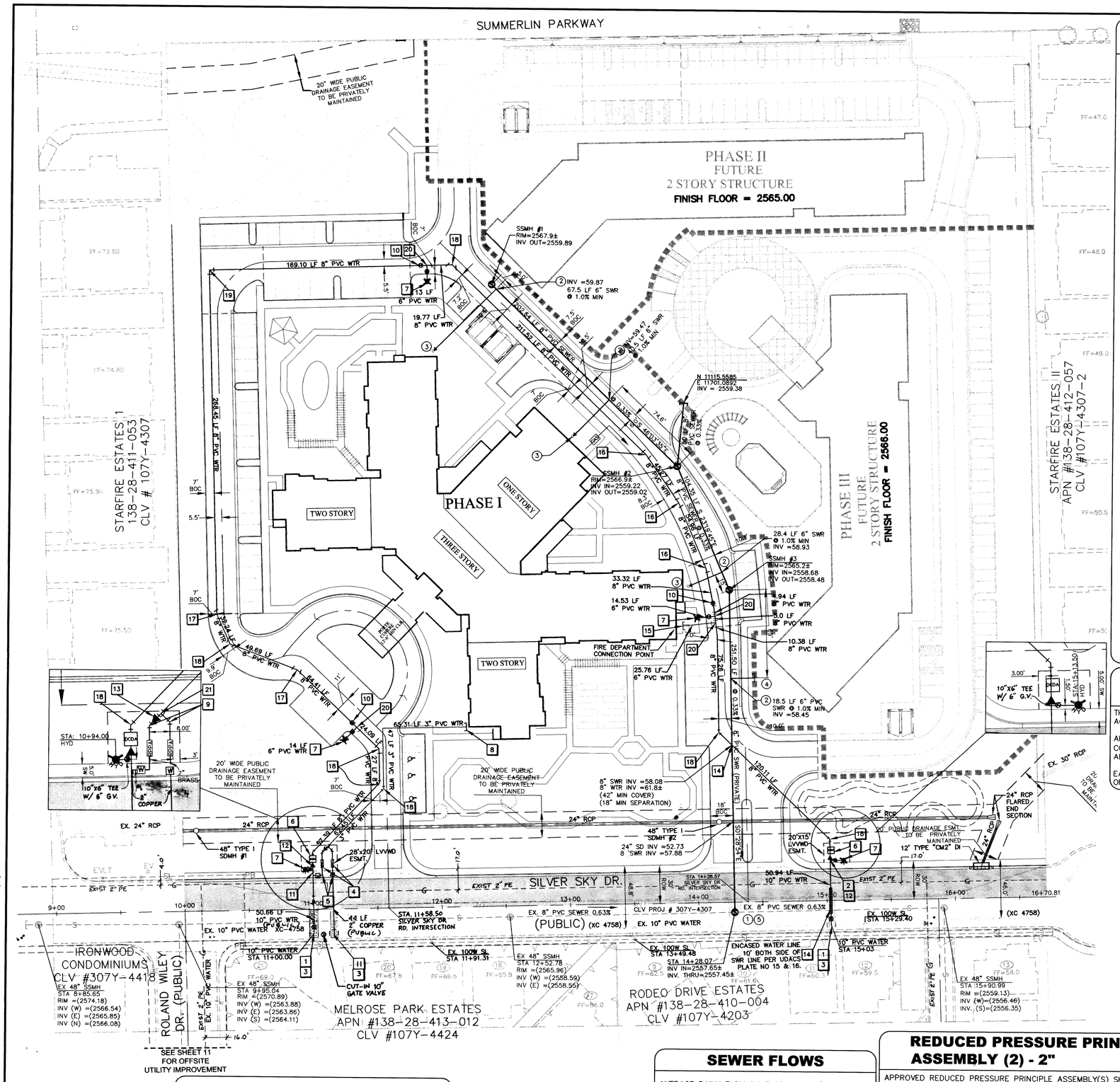


WATER CONSTRUCTION NOTES & QUANTITIES

1	CONNECT PROPOSED 10" PVC WATER TO EX. 10" PVC WATER. ***WITH 10" TAPPING VALVE WET TAP (MECH. JOINT) PER UDACS 2.20 & STD. PLATE #22.***	– 2 EA
2	INSTALL 10" X 6" TEE PER UDACS PLATE NO. 5	– 2 EA
3	SAWCUT EX. PAVEMENT, TRENCH SECTION BACKFILL PER UDACS PLATE #6B AND REPLACE PAVEMENT.	– 3 EA
4	INSTALL 2" RPPA PER UDACS PLATE NO. 11A.	– 2 EA
5	INSTALL 2" WATER METER PER UDACS PLATE NO. 1D	– 2 EA
6	INSTALL 8" DCDA PER UDACS PLATE NO. 11C.	– 2 EA
7	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 7.	– 5 EA
8	CAP 3" WATER LINE FOR DOMESTIC SERVICE 5' FROM THE BUILDING. (SEE MECHANICAL DRAWINGS FOR DETAILS BY OTHERS).	– 1 EA
9	INSTALL 2" 45° BEND PER UDACS PLATE NO. 5	– 2 EA
10	INSTALL 8" GATE VALVE PER UDACS PLATE NO. 8.	– 2 EA
11	CONNECT TO 10" WATER LINE W/ 10" X 2" SERVICE SADDLE.	– 2 EA
12	INSTALL 10" X 8" REDUCER	– 2 EA
13	INSTALL 3" X 2" REDUCER	– 1 EA
14	SEWER AND WATER CROSSING. CONSTRUCT SERVICE(S) PER UDACS PLATE NO. 15 AND 16 MUST CONFORM TO UDACS LATEST ED. STD. SPEC. 2.19.	– 2 EA
15	STUBOUT 6" WATER LINE FOR SPRINKLER SYSTEM 5' AWAY FROM BUILDING. (SEE MECHANICAL DRAWINGS BY OTHERS).	– 3 EA
16	INSTALL 8" 11.25° BEND PER UDACS PLATE NO. 5	– 3 EA
17	INSTALL 8" 22.5° BEND PER UDACS PLATE NO. 5.	– 4 EA
18	INSTALL 8" 45° BEND PER UDACS PLATE NO. 5.	– 5 EA
19	INSTALL 8" 90° BEND PER UDACS PLATE NO. 5.	– 1 EA
20	INSTALL 8" X 6" TEE PER UDACS PLATE NO. 5	– 4 EA
21	INSTALL 3" X 2" X 2" TEE PER UDACS PLATE NO. 5	– 1 EA
22	INSTALL 3" 45° BEND PER UDACS PLATE NO. 5	– 1 EA

10" PVC WATER (PUBLIC) = 102 LF

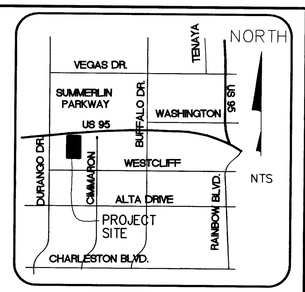
8" PVC WATER (PRIVATE) = 1304 LF

6" PVC WATER (PRIVATE) = 74 LF

3" PVC WATER (PRIVATE) = 204 LF

2" PVC WATER (PRIVATE) = 59 LF

2" COPPER WATER (PUBLIC) = 47 LF



VICINITY MAP

NOT TO SCALE

NORTH

40 0 40 80

SCALE FEET

SCALE: 1"=40'

LEGEND

- PROPOSED OFF-SITE PAVEMENT
- PROPOSED PARKING PAVEMENT
- PROPOSED ON-SITE PAVEMENT
- EX. PAVEMENT TO BE REMOVED
- SAWCUT, TRENCH BACKFILL & REPLACE PAVEMENT

SEWER CONSTRUCTION NOTES & QUANTITY

1	CONNECT 8" PVC SEWER TO EXISTING 8" SEWER LINE WITH MANHOLE PER SD-1.	– 1 EA
2	INSTALL 8" X 6" 45° WYE TO 8" PVC SEWER LINE.	– 4 EA
3	INSTALL 6" SEWER CLEANOUT. CLEANOUT COVER PER DETAIL 10 SHEET C-6	– 3 EA
4	CAP/STUB OUT 6" PVC SEWER FOR FUTURE SEWER CONNECTION	– 2 EA
5	SAWCUT EX. PAVEMENT, TRENCH SECTION PER UDACS PLATE # SD-16A, AND REPLACE PAVEMENT	– 1 EA
	8" PVC SEWER (PRIVATE)	– 608 LF
	6" PVC SEWER (PRIVATE)	– 130 LF
	SEWER MANHOLE (PUBLIC)	– 1 EA
	SEWER MANHOLE (PRIVATE)	– 3 EA

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) (2)-8"

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE 11C.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

UTILITY NOTES & RESPONSIBILITIES

TRC ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF LOCATIONS AND ELEVATIONS OF UTILITIES INDICATED ON THIS MAP, INCLUDING UNDERGROUND LINES, ABOVE GROUND STRUCTURES, AND EXISTING UTILITIES NOT INDICATED OR NOT OF RECORD. LOCATIONS OF UTILITIES HAS BEEN DETERMINED BY SURFACE INDICATIONS AND THE BEST INFORMATION AVAILABLE FROM UTILITY COMPANIES.

THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL UTILITY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING EXCAVATION OR CONSTRUCTION OF ANY KIND. IF DISCREPANCIES IN UTILITY LOCATIONS ARE DISCOVERED DURING FIELD VERIFICATION, THE CONTRACTOR MUST IMMEDIATELY NOTIFY TRC.

THE CONTRACTOR IS RESPONSIBLE FOR TAKING ALL APPROPRIATE PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITY LINES AND STRUCTURES BEFORE BEGINNING EXCAVATION.

BASIS OF BEARINGS

NORTH 88°22'24" EAST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 28, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, ALSO BEING THE CENTERLINE OF WESTCLIFF DRIVE, AS SHOWN ON THAT CERTAIN FINAL MAP RECORDED IN BOOK 64, PAGE 39 OF PLATS, CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

DESCRIPTION	NAV 88 DATUM	NAV 88 DATUM
U.S.C & G.S. BEING A RIVET AND PLATE IN THE TOP OF THE CURB AT THE NORTHWEST CORNER OF WESTCLIFF AND CIMARRON. CLV BENCHMARK NO. OOLV0028S4 (909)	2552.04 FEET	777.863 METERS

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2625 GPM (TOTAL OF 5250 GPM BUT W/ 50% REDUCTION FOR SPRINKLERS)
GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.
BASED ON:
SQUARE FOOTAGE.....81,524 SF
LARGEST AREA BETWEEN SEPARATION WALLS...N/A
BUILDING HEIGHT.....3-STORY (38' MAX)
NUMBER OF STORIES:.....3 FLOOR
TYPE OF CONSTRUCTION.....V, A
OCCUPANCY.....R/2 / B / A-3 / MIXED USED
FULL SPRINKLER SYSTEM.....YES (NF-PA 13 WATT)
ROOF CONSTRUCTION:.....TILE

REVIEWED BY: LAS VEGAS FIRE DEPT. DATE: 11/4/04

APPROVALS

LAS VEGAS VALLEY WATER DISTRICT DATE
PROJECT NO. H-83995

NOTE

CONDUITS FOR CABLE, TELEPHONE, & POWER SHALL BE INSTALLED AND BACKFILLED BY CONTRACTOR. REFER TO UTILITY COMPANY PLANS FOR REQUIREMENTS.

UTILITY NOTE

PROPOSED ELECTRIC, CABLE TV, GAS & TELEPHONE LINES ARE SHOWN FOR APPROXIMATE ROUTE LOCATION. UTILITY COMPANIES TO PREPARE CONSTRUCTION PLANS.

SEE UTILITY COMPANIES CONSTRUCTION PLANS FOR FINAL UTILITY LOCATION.

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), 2ND ED. 2003, FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

SEWER FLOWS

AVERAGE DAILY FLOW	0.147187 MGD	(147187 GPD)
PEAK FLOWS	0.462905 MGD	(462905 GPD)

DIMENSIONS NOTES

ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS NOTED OTHERWISE.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) - 2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-593-6111

Avoid cutting underground utility lines. It's costly.
Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE (USA)

REV	DESCRIPTION	BY	DATE	AGEN. APP.	DATE

PROJ NO: 609.001N
DESIGN: LG/GB
DATE: 11/04/04
SCALE: AS SHOWN
CADFILE: SS-PH1-C9

PROFESSIONAL ENGINEER STATE OF NEVADA No. 8713 EXPIRES 12/31/05

STAMP DATE: 11/4/04

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Customer-Focused Solutions
BV Engineering Nevada
8395 W. SUNSET ROAD
Suite 190
Las Vegas, NV 89113
Tel: 702-650-0572
Fax: 702-307-4222
Web: trcsolutions.com

SILVER SKY ASSISTED LIVING
PHASE 1
MASTER UTILITY PLAN

SHEET C-9
9 OF 11 SHTS
CLV # 107V4184

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