APPROVED FOR CONSTRUCTION

THE VILLAGE AT PEREGRINE FILING NO. 2

CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

WATER and SEWER CONSTRUCTION PLANS

WATER STATEMENT

THE UNDERSIGNED OWNER/DEVELOPER AGREES THAT THE INSTALLATION OF THESE PHOPOSED WATER FACILITIES WILL BE MADE IN ACCORDANCE WITH DEPT. OF WATER SPECIFICATIONS AND SHALL PROVIDE A MINIMUM OF FIVE FEET (5'-0") AND A MAXIMUM OF SIX FEET (6'-0") OF COVER OVER THE WATER MAIN(S). THE UNDERSIGNED UNDERSTANDING THAT ALL WATER MAINS. FIRE HYDRANTS, AND APPURTENANCES AS INDICATED ON THIS WATER INSTALLATION PLAN SHALL REMAIN THE

PROPERTY OF THE CHIEF AND SHALL BE MAINTAINED BY THE OWNER ANY CHANGES REQUIRED TO MEET THE ANGUE, STIPPELATIONS SHALL BE AT THE EXPENSE OF THE OWNER/DEVELOPER. ODVER) IN EXCESS OF SIX FEET (6'0" ISHALL BE SUPPORTED BY PLAN AND PROFILE DRAWINGS APPRIVED BY THE WATER DEPARTMENT

LIFESTYLE BUILDERS, INC.

ADDRESS 1920 VINDICATOR DR. STE. 209 COLORADO SPRINGS. COLORADO 80920

WATER PLAN APPROVAL

COLORADO SPRINGS UTILITIES, DEPARTMENT OF WATER

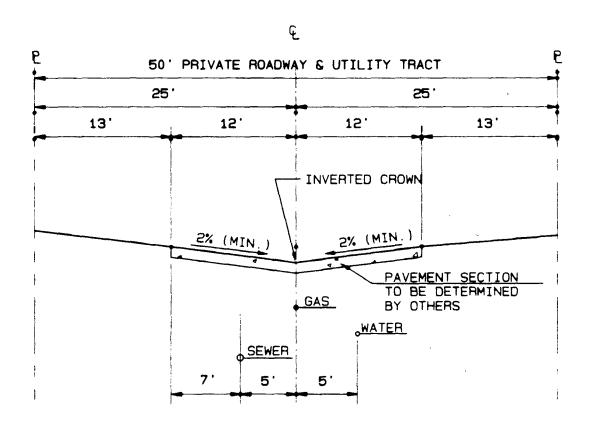
ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO THE COLORADO SPRINGS UTILITIES, DEPARTMENT OF WATER **SPECIFICATIONS**

THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS AS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE CITY OF COLORADO SPRINGS FIRE DEPARTMENT

WATER NOTES

- 1. SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH DEPARTMENT OF WATER STANDARDS AND SPECIFICATIONS.
- 2. PRIOR TO CONSTRUCTION, TESTS FOR CORROSIVE SOILS CONDITIONS ARE REQUIRED. IF CORROSION PROTECTION IS REQUIRED, THE METHOD OF PROTECTION SHALL BE APPROVED BY THE WATER RESOURCES DEPARTMENT
- 3. POLYVINYLCHORIDE PIPE (PVC) IS ACCEPTABLE FOR 6" AND 8" DIAMETER PIPE ONLY.
- 4. CORROSION-PROTECTED DUCTILE IRON PIPE (DIP) IS REQUIRED THROUGH ALL LOWERINGS.
- 5. ALL BENDS AND FITTINGS SHALL BE FIELD-STAKED PRIOR TO CONSTRUCTION
- 6. ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO THE DEPARTMENT OF WATER RESOURCES SPECIFICATIONS
- 7. MINIMUM VERTICAL CLEARANCE WITH ALL OTHER UTILITIES SHALL BE 18 INCHES.
- 8. FOR 8" OR SMALLER WATER MAINS. THE DEPTH OF FILL OVER THE PIPE SHALL BE A MINIMUM OF 5 FEET AND A MAXIMUM OF 6 FEET (UNLESS OTHERWISE SPECIFIED) AS MEASURED FROM THE PROPOSED FINISHED GRADE TO THE TOP OF PIPE.
- 9. WATER SERVICE LINES SHALL BE GENERALLY LOCATED 16 FEET UPHILL FROM THE DOWNHILL LOT CORNER EXTENDING A MINIMUM OF 2 FEET BEYOND THE EASEMENT LINE, AND MARKED WITH A 2"x 4" POST UNLESS NOTED NOTED.
- 10. ALL DUCTILE IRON PIPE, TO INCLUDE FITTINGS, VALVES, AND HYDRANTS, SHALL BE WRAPPED WITH POLYETHYLENE TUBING, BONDED AT EACH JOINT, AND ELECTRICALLY INSULATED AS SPECIFIED IN THE STANDARDS AND SPECIFICATIONS.
- 11. DIMENSIONS ARE APPROXIMATE, AND ARE MEASURED FROM FITTING TO FITTING.
- 12. INSULATING COUPLINGS AND/OR TEST STATIONS SHALL BE INSTALLED WHERE INDICATED.
- 13. 17 LB. MAGNESIUM ANODES SHALL BE INSTALLED WHEREVER AN (A) IS INDICATED ON THIS PLAN AND AT ALL REVERSE ANCHORS AND/OR PLUGS. ALL ANODES SHALL BE FURNISHED BY THE "CORROSION CONTROL DEPARTMENT" AND INSTALLED BY THE CONTRACTOR. 24 HOUR NOTICE IS REQUIRED BY CALLING 636-5729
- 14. ALL ANODES FOR CORROSION PROTECTION FOR FIRE HYDRANT ASSEMBLIES SHALL BE MOUNTED ON THE HYDRANT IF THE LATERAL MATERIAL IS PVC.
- 15. THE CONTRACTOR IS REQUIRED TO NOTIFY WATER ENGINEERING INSPECTIONS BY CALLING 636-5654 2 (TWO) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF THIS PROJECT INVOLVES A TAP, DO NOT CALL TO SCHEDULE THE TAP UNTIL THE ENGINEERING INSPECTION NOTIFICATION HAS BEEN GIVEN.

APRIL 6, 1998



50' PRIVATE ROADWAY AND UTILITY EASEMENT SECTION

WASTEWATER NOTES:

- 1. ALL D.I.P. SHALL BE CATHODICLY PROTECTED BY BONDING ALL JOINTS, POLY-WRAPPING, AND ING 17LB MAGNESIUM ANODES AT THE LOCATIONS SHOWN ON THE DRAWINGS. THE COST OF ALL
- 2. ALL P.V.C. PIPE INSTALLED WITH BETWEEN 14' AND 20' OF COVER SHALL BE INSTALLED PER ASTM
- 3. ALL PIPE 18" AND LARGER IN DIAMETER SHALL BE INSTALLED WITH CLASS "B" BEDDING APPROVED BY THE WASTEWATER DIVISION INSPECTOR PRIOR TO THE START OF CONSTRUCTION.
- 4. IF A BYPASS PUMPING PLAN IS NEEDED IT SHALL BE REVIEWED AND APPROVED BY THE WASTEWATER DIVISION INSPECTOR PRIOR TO BEING GRANTED CONSTRUCTION APPROVAL. THE CONTRACTOR SHALL HAVE I 00% REDUNDANT PUMPING CAPACITY WITH 24 HOUR SUPERVISION DURING ALL PUMPING OPERATIONS. 5. THE CONTRACTOR SHALL MEET WITH THE WASTEWATER INSPECTION SUPERVISOR (TR TINAN, 448-4428)
- 48 HOURS PRIOR TO THE START OF CONSTRUCTION FOR "CONSTRUCTION APPROVAL" TO OUTLINE METHODS OF CONSTRUCTION, MATERIALS TO BE USED, CONSTRUCTION STAKING, AND ISSUING A "MANHOLE ENTRY PERMIT" 6. ALL MANHOLES LOCATED WITHIN THE PROJECT LIMITS SHALL BE LOCATED AND RAISED BY THE
- CONTRACTOR. IF THE MANHOLE IS IN POOR CONDITION OR IF THE DISTANCE BETWEEN THE RING/COVER AND CONE OF THE MANHOLE EXCEEDS THE WASTEWATER RULES. THE CONTRACTOR MAY BE REQUIRED TO REPLACE PART OR ALL OF THE EXISTING MANHOLE.
- 7. ALL MANHOLES TO BE ABANDONED SHALL HAVE THE "IN" AND "OUT" INVERTS PLUGGED WITH A WATERTIGHT MECHANICAL PLUG AND GROUTED, THE RING AND COVER REMOVED AND RETURNED TO THE
- WASTEWATER DIVISION, AND THE MANHOLE FILLED WITH COMPACTED FILL 8. IF AN ABANDONED SEWER LINE FALLS UNDER A PROPOSED STRUCTURE IT SHALL BE REMOVED OR GROUTED
- 9. IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS THE CONTRACTOR SHALL NOTIFY THE WASTEWATER DIVISION INSPECTOR AND THE ENGINEER IMMEDIATELY SO THAT APPROPRIATE ACTION CAN BE TAKEN BY THE OWNER/DEVELOPER.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE WASTEWATER PIPELINES AS A RESULT OF HIS ACTIONS. THE CONTRACTOR SHALL MAKE ALL THE REQUIRED REPAIRS IMMEDIATELY TO THE SATISFACTION OF THE WASTEWATER DIVISION INSPECTOR.
- 11. ALL PIPELINES 12' DIAMETER AND LARGER SHALL BE "AS-BUILT" SURVEYED AND "AS-BUILT" DRAWINGS SUBMITTED TO THE WASTEWATER DIVISION FOR REVIEW AND ACCEPTANCE. 12. ALL SEPTIC TANKS TO BE ABANDONED SHALL HAVE THE INVERTS PLUGGED, THE LID REMOVED, AND THE
- TANK FILLED WITH COMPACTED FILL. THE EL PAGE COUNTY DEPARTMENT OF HEALTH SHALL BE NOTIFIED WHEN ANY SEPTIC TANK IS ABANDONED. 13. THE CONTRACTOR WILL BE REQUIRED TO REPLACE EXISTING MANHOLES THAT IN THE WASTEWATER
- DIVISION INSPECTORS REVIEW ARE FOUND TO BE IN POOR CONDITION AND CAN NO LONGER BE MODIFIED OR
- 14. THE CONTRACTOR WILL VERIFY AND RECONNECT ALL EXISTING SERVICE CONNECTIONS. THE CONTRACTOR SHALL NOTE THAT SERVICES OTHER THAN THOSE FROM ADJACENT STRUCTURES MAY BE ENCOUNTERED 15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE
- EXISTENCE AND LOCATION OF ALL UNDERGROUND FACILITIES ALONG THE ROUTE OF WORK. THE OMISSION FROM OR THE INCLUSION OF FACILITY
- LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR, A DEFINITE LOCATION OF EXISTING UNDERGROUND
- 16. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF COLORADO SPRINGS "WASTEWATER DIVISION RULES FOR THE INSTALLATION OF SEWER MAINS AND SERVICES" DATED FEBRUARY 1.

1980, OR THE LATEST REVSION THEREOF.

VICINITY NO SCALE HIDDEN PEREGRINE VALLEY FILING 3 ΑT PEREGRINE PEREGRINE FILING 3 VILLAGE AT PEREGRINE FILING 1 WOODMEN ROAD

AGENCIES

DEVELOPER:

MR. LON FROHLING LIFESTYLE BUILDERS, INC. 1920 VINDICATOR DR. SUITE 209 COLORADO SPRINGS, COLORADO 80919 (719) 260-0446

CIVIL ENGINEER

JEFFREY C. JUREW, P.E. PREMIER ENGINEERING, INC. 2110 VICKERS DRIVE COLORADO SPRINGS, COLORADO 80918 (719) 598-6951

ENGINEERING DIVISION

CITY OF COLORADO SPRINGS 101 WEST COSTILLA AVE., SUITE 122 COLORADO SPRINGS, COLORADO 80903 MR. ROBIN KIDDER, P.E. (719) 385-5058

WASTEWATER DIVISION

CITY OF COLORADO SPRINGS 703 EAST LAS VEGAS STREET COLORADO SPRINGS, COLORADO 80906 MR. JERRY VALLE (719) 448-4358

WATER DIVISION:

CITY OF COLORADO SPRINGS 404 WEST FONTANERO STREET COLORADO SPRINGS, COLORADO 80907 MS. JANET KOSCIELSKI, (719) 636-5796

GAS DIVISION

TELEPHONE COMPANY

101 SOUTH CONEJOS STREET COLORADO SPRINGS, COLORADO 80903 MR. DAN JAWORSKI (719) 636-5710

CITY OF COLORADO SPRINGS

ELECTRIC DIVISION: CITY OF COLORADO SPRINGS 30 SOUTH NEVADA AVENUE, SUITE 701

> COLORADO SPRINGS, COLORADO 80903 MR. PHIL ROBERTS, (719) 636-5577 U.S. WEST COMMUNICATIONS

(LOCATIONS) (800) 922-1987

(LOCATIONS) (719) 635-3674

GENERAL NOTES

(TarT-7/23/98 Finish - 9/3/98 CONTICKTER-"LifesTyles" Foreman - "Curt"

Inspector - faul mosbarger

approx. - 686'. of 6" F.M P.V.C. Blue Bruke. map Page E-20, 21

ACCORDING TO CALCULATIONS

DEPARTMENT THE THEORETICAL

REVIEWED BY THE WATER RESOURCES

AVAILABLE FIRE FLOW AT NODE .

NODE A = 1800 GALLONS PER

MINUTE UNDER MAXIMUM DAY DEMAND

CONDITIONS WITH A 20 PSI RESIDUAL.

ACTUAL FIRE FLOW MAY VARY DUE TO

STATIC PRESSURE = 120 P.S.I.

VARIOUS PARAMETERS.

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA. THE OMISSION FROM, OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE
- 2. ALL MATERIALS AND CONSTRUCTION MUST BE IN ACCORDANCE WITH THE CITY OF COLORADO SPRINGS STANDARDS AND SPECIFICATIONS, LATEST REVISION THEREOF
 - THE CONTRACTOR SHALL TAKE ALL OF THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR
- 4. ALL STATIONS REFER TO CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.

ALL FIRE HYDRANTS AND FUTURE SERVICE STUBS HAVE BEEN LOCATED BY THE OWNER OR HIS ENGINEER ANY REQUIRED REALIGNMENT, EITHER HORIZONTAL OR VERTICAL, SHALL BE AT THE EXPENSE OF THE OWNER.

ALSO, ANY STUBS AND APPURTENANCES NOT USED AS PROPOSED SHALL BE REMOVED AND REPLACED WITH AN ACCEPTABLE SECTION OF PIPE AT THE EXPENSE OF THE

THE CITY OF COLORADO SPRINGS DOES NOT GUARANTEE WATER TO THE SUBJECT AREA. ALLOCATION OF WATER TO SERVE THIS AREA WILL DEPEND ON THE SUPPLY AVAILABLE AT THE TIME OF APPLICATION. THE CITY'S POLICY IS FIRST-COME, FIRST-SERVED.

> ACCORDING TO CALCULATIONS REVIEWED BY THE WATER RESOURCES DEPARTMENT THE THEORETICAL AVAILABLE FIRE FLOW AT NODE NODE B = 1600 GALLONS PER MINUTE UNDER MAXIMUM DAY DEMAND CONDITIONS WITH A 20 PSI RESIDUAL ACTUAL FIRE FLOW MAY VARY DUE TO VARIOUS PARAMETERS. STATIC PRESSURE = 120 P.S.I.

MAP SHEET E-21

MAXIMUM FINISHED FLOOR SERVICE ELEVATION = 6712 U.S.G.S. DATUM

HOMEOWNWER'S ASSOCIATION DOCUMENT RECORDED AT BOOK 5462 PAGE 501

UTILITIES DESIGN PLAN NO. 1998015

THE VILLAGE AT PEREGRINE # 2 WATER AND SEWER CONSTRUCTION PLANS APRIL 6, 1998

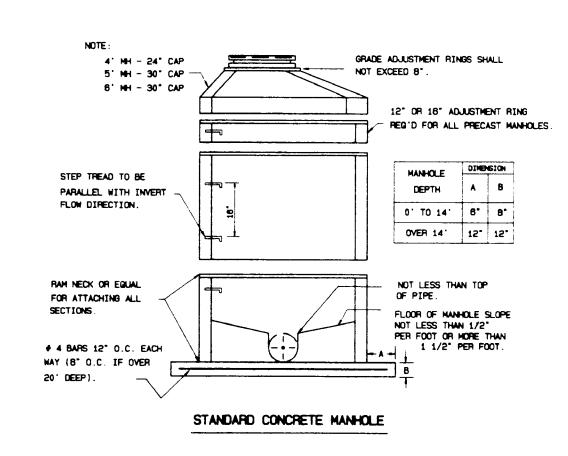
> PREMIER ENGINEERING AND SURVEYING, INC. Professional Civil Engineers and Land Surveyors

2110 Vickers Drive Colorado Springs, CO 80918-(719) 598 6951

REF. DEVELOPMENT PLAN # DP-96-128 A1

WATER DATA							
NO .	BEARING/DELTA	RADIUS	LENGTH	TANGENT			
1	N 27º 34'21" W		51.94'				
(5)	N 05°04'21" W		66.881				
3>	N 39°55'39° E		49.74				
4	N 62°25'39" E		49.96				
5	N 39°55'39" E		44.30'				
6	N 05º 04'21" W		51.97'				
$\langle 7 \rangle$	N 05°06'02" E		17.14				
8	N 50°06'02" E		64.81				
9	N 27° 36'02" E		68.41				
40>	N 27º 36'02" E		54.74'				
(1)	N 16°21'02" E		12.38'				
12	N 16º 21 '02" E		7.62'				
(3)	N 06° 08'58" W		44.33'				
44>	N 62°23'58" W		56.54				

SEWER DATA							
NO .	BEARING/DELTA	RADIUS	LENGTH	TANGENT			
1	N 27°34'21" W		42.04				
(5)	35° 48 ' 44 "	100.00	62.50	32.31			
3	50° 09 '52"	100.00	87.55	46.81			
4	N 58º 24'15" E		44.20'				
5	47° 30 `15"	120.00	99.49'	52.81			
6	N 10°54'00" E		24.921				
7	N 38°00'25" W		70.921				
8	N 38º00'25" W		68.87'				
9	40° 26 `25 °	100.00	70.58	36.83			



SUPPLIMENTAL NOTES

- 1. THE CONTRACTOR SHALL AT HIS EXPENSE, SUPPORT AND PROTECT ALL WATER MAINS SO THAT THEY FUNCTION CONTINUOUSLY DURING THE CONSTRUCTION OF THIS PROJECT. SHOULD A MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATIONS, IT WILL BE REPAIRED IMMEDIATELY BY EITHER THE CONTRACTOR, OR THE WATER RESOURCES CONSTRUCTION DEPARTMENT AT THE FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR.
- 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY INTERRUPTIONS TO EXISTING WATER SERVICES.

