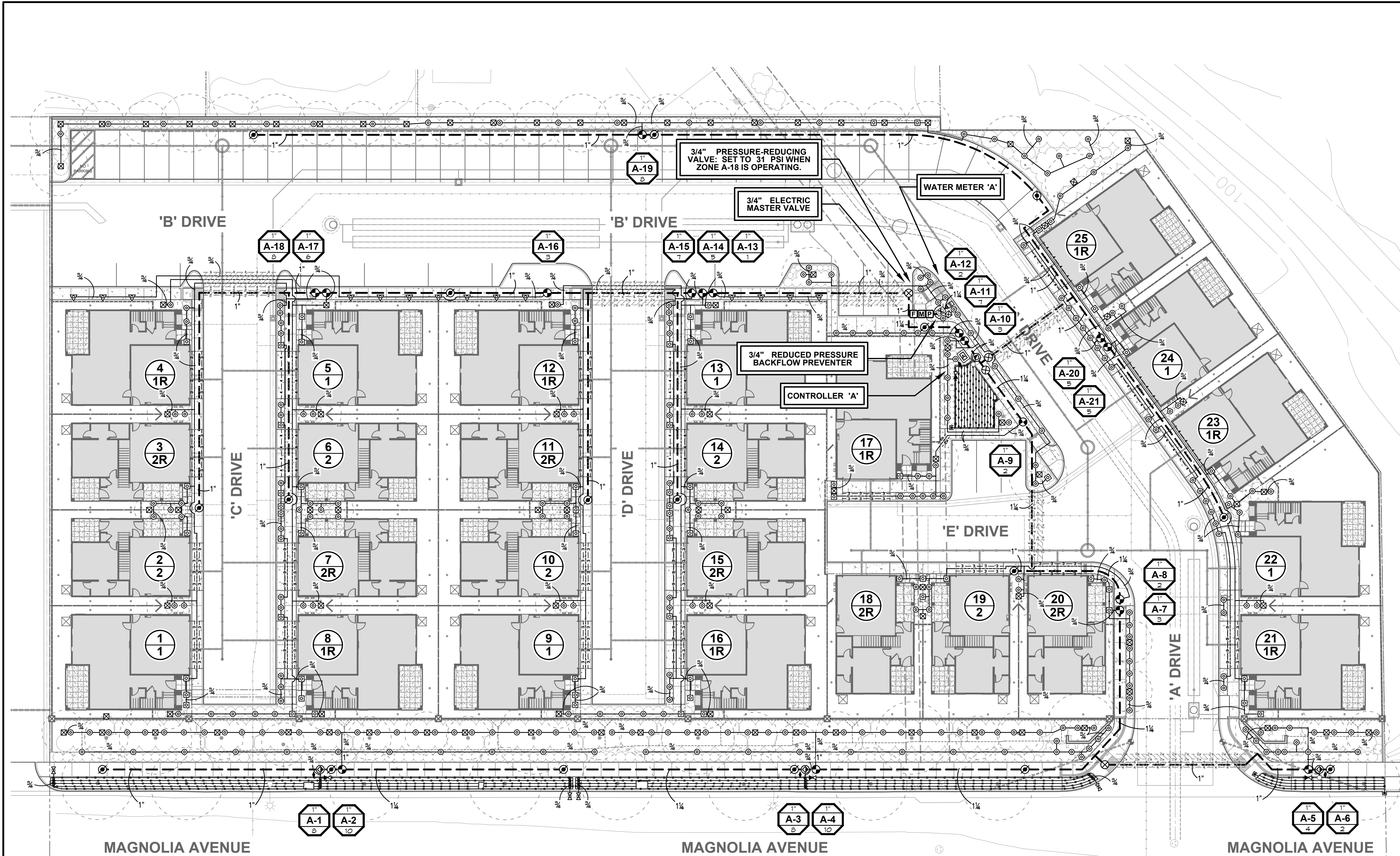




FRICTION LOSS CALCULATION		
WATER METER REF. NO.:	A	
VALVE STATION NO.:	A-2	
HEAD / BUBBLER / EMITTER	20.00	
ADV.		
LATERAL LINE & FITTINGS	1.30	
PRESSURE REGULATOR		
FILTER		
MIN. RCV PRV DIFFERENTIAL	1.80	
CONTROL VALVE	4.96	
PRESSURE MAIN LINE	0.05	
FLOW SENSOR	8.27	
PRESSURE REDUCER	11.40	
BACKFLOW PREVENTER	0.30	
STRAINER / FILTER	3.70	
WATER METER	1.06	
SERVICE LINE	0.87	
ELEVATION DIFFERENCE	2.59	
CONTINGENCY	56.40	
MINIMUM PSI. REQ'D.	(EXISTING PSI.)	-73.00
RESIDUAL PSI.		16.60

2/1/16

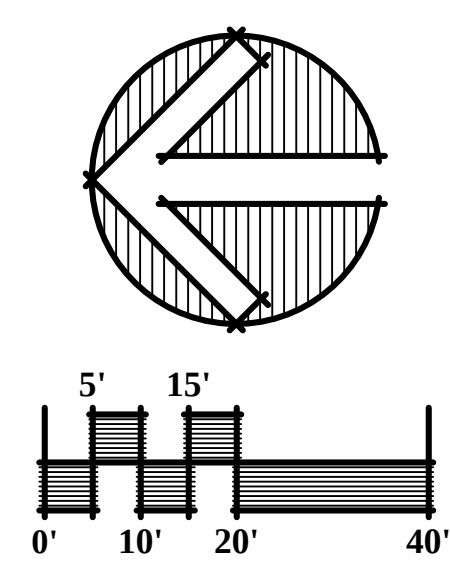
FRICTION LOSS CALCULATION		
WATER METER REF. NO.:	A	
VALVE STATION NO.:	A-18	
HEAD / BUBBLER / EMITTER	20.00	
ADV.		
LATERAL LINE & FITTINGS	1.40	
PRESSURE REGULATOR		
FILTER		
MIN. RCV PRV DIFFERENTIAL	1.76	
CONTROL VALVE	5.67	
PRESSURE MAIN LINE	0.03	
FLOW SENSOR	6.45	
PRESSURE REDUCER	11.00	
BACKFLOW PREVENTER	0.30	
STRAINER / FILTER	2.30	
WATER METER	0.70	
SERVICE LINE	1.30	
ELEVATION DIFFERENCE	2.55	
CONTINGENCY	53.46	
MINIMUM PSI. REQ'D.	(EXISTING PSI.)	-73.00
RESIDUAL PSI.		19.54

9/1/16

WATER SERVICE INFORMATION	
TYPE OF SOURCE:	POTABLE
SERVICE LINE SIZE **:	1"
WATER METER SIZE **:	5/8"
(** PER STREET and/or WATER IMPROVEMENT PLANS)	
METER ADDRESS:	'A' DRIVE
METER STATION POINT:	'A' DRIVE
EXISTING WATER PRESSURE:	73 PSI.
MINIMUM OPERATING PRESSURE:	56 PSI.
PEAK IRRIGATION DEMAND:	10 GPM.
IRRIGATED AREA:	(14,450 SF.) 0.33 ACRES

TREES: (ALL)	
SHRUBS:	
AAP	AGAPANTHUS AFRICANUS 'PETER PAN'
AAQ	AGAPANTHUS AFRICANUS 'QUEEN ANNE'
AGE	ABELIA GRANDIFLORA 'EDWARD GOUCHER'
ANF	ANIGOSANTHUS FLAVIDUS 'RED'
ASE	ASPIDISTRA ELATIOR
AUC	ARBUTUS UNEDO 'COMPACTA'
BIG	BUXUS MICROPHYLLA JAPONICA 'GREEN BEAUTY'
BOL	BOUGAINVILLEA 'LA JOLLA'
COG	COTONEASTER CONGESTUS
DIB	DIETES BICOLOR
DIL	DIETES IRIDIODES
EBC	ECHVEVERIA BLUE CURLS'
EBR	ECHVEVERIA 'BIG RED'
EMV	EUONYMUS JAPONICUS 'MICROPHYLLUS VARIEGATUS'
HER	HEMEROCALLIS 'RUST' (DWARF, EVERGREEN)
IVS	ILEX VOMITORIA 'STOKES' DWARF'
JSG	JUNIPERUS CHINENSIS 'SEA GREEN'
KNU	KNIPHOFIA UVARIA (HYBRIDS)
LJT	LIGUSTRUM JAPONICUM 'TEXANUM'
LMU	LIRIOPE MUSCARI
LSS	LIRIOPE MUSCARI 'SILVERLY SUNPROOF'
NEB	NEPHROLEPIS EXALTATA 'BOSTONIENSIS'
PEP	PELARGONIUM PELTATUM
PTV	PITTIOSPORUM TOBIRA 'VARIEGATA'
PTW	PITTIOSPORUM TOBIRA 'WHEELER'S DWARF'
RCA	ROSA CALIFORNICA
RFI	ROSA FLORIBUNDA 'ICEBERG'
RIB	RHAPHIOLEPIS INDICA 'BALLERINA'
ROY	ROSA FLOWER CARPET 'YELLOW'
RRF	ROSA FLOWER CARPET 'RED'
TRJ	TRACHELOSPERMUM JASMINOIDES
VINES: (ALL)	

LOW FLOW BUBBLER SCHEDULE



WHENEVER ANY ITEM OF "DISTRIBUTION & CONTROL EQUIPMENT" IS SIZED SMALLER THAN THE MAIN LINE OR LATERAL LINE PIPING ON WHICH IT IS PLACED, THE REDUCTION IN PIPE SIZE SHALL ONLY OCCUR AT THE THREADED FITTING WHICH ADAPTS THE PIPE TO THE PIECE OF EQUIPMENT.

THIS DESIGN IS DIAGRAMMATIC. ANY EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY, AND IS TO BE INSTALLED WITHIN PLANTED AREAS WHEREVER POSSIBLE.

SEE SHEET 7 FOR IRRIGATION DETAILS

THESE PLANS HAVE BEEN EXAMINED AND ARE APPROVED ONLY AS TO COMPATIBILITY WITH ADJOINING EXISTING OR FUTURE IMPROVEMENTS AND CONFORMANCE WITH CITY OF ANAHEIM STANDARD DETAILS AND THE REQUIREMENTS FOR THE FOLLOWING APPLICABLE FACTORS: RIGHT-OF-WAY, ROADWAY MATERIALS, ALIGNMENTS AND GRADES, HYDROLOGY AND HYDRAULIC DESIGN OF STORMDRAIN OR SANITARY SEWER SYSTEMS AND UNDER GROUND CONDUITS OR OPEN CHANNEL ALIGNMENTS, GRADES, SIZES AND MATERIALS.

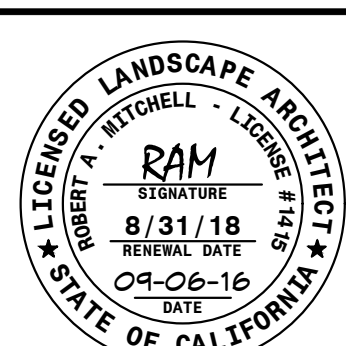
ENGINEER'S NOTE TO CONTRACTOR:
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ANY UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES WITHIN THE PERMIT WORK AREA.

REVISIONS		
NO.	INIT.	DATE

REFERENCES		
BENCH MARK: 3A-3	ELEVATION: 100.63 (NAVD88)	
LOCATION: CRESCENT AVENUE/MAGNOLIA AVENUE		
DESCRIPTION: BRASS CAP MARKED C OF A BM, IN THE TOP OF CURB AT THE NE COR AT THE INTERSECTION OF CRESCENT AVENUE & MAGNOLIA AVENUE.		
PLANS FOR THESE IMPROVEMENTS:		
GRADING: GRA2015-03094		
WATER: UWM2015-00053		
SEWER: RCP2015-11623		
STORM DRAIN: PER GRADING PLANS GRA2015-03094		

PREPARED UNDER THE SUPERVISION OF:

Robert A. Mitchell
Robert A. Mitchell



LANDSCAPE ARCHITECT:

ROBERT MITCHELL & ASSOCIATES
LAND SOLUTIONS
2282 E TOLSON ROAD LAKE FOREST, CA 92550
(949) 311-2112 FAX (949) 381-2097 rmitche@ramla.com (ramla.com)

OWNER/DEVELOPER:

SILVEROAK INVESTMENT CORPORATION
19100 VON KARMAN AVE, SUITE 400
IRVINE, CA 92612
(714) 477-9550

STREET IMPROVEMENT PLAN FOR MAGNOLIA STREET		SHEET 7 OF 17
FROM 320' N/O LINCOLN AVENUE & 150' S/O W.MADISON CIRCLE		PLAN NO.