

LATERAL LINE PIPE SIZING CHART

FLOW RANGE	MINIMUM SIZE OF LATERAL LINE
0 THROUGH 5 GPM	MINIMUM SIZE SHALL BE 3/4 INCH
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WASHINGTON BOULEVARD

LIMIT OF WORK

A46	1.5"	26	30
HZ1	S	1.75	898
A45	1"	19	30
HZ1	S	1.75	656

A 45	A 46	A 47	A 48
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A47	1"	21	45
HZ2	R	0.70	2,264
A48	1"	17	45
HZ2	R	0.70	1,832

OXFORD RETENTION BASIN

LIMIT OF WORK

MATCH LINE - SEE SHEET L-2.13

MATCH LINE - SEE SHEET L-2.12

BrightView
Landscape Development
Color Chart

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EXISTING IRRIGATION NOTES

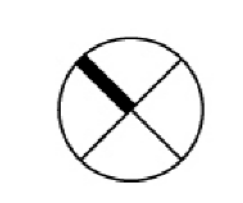
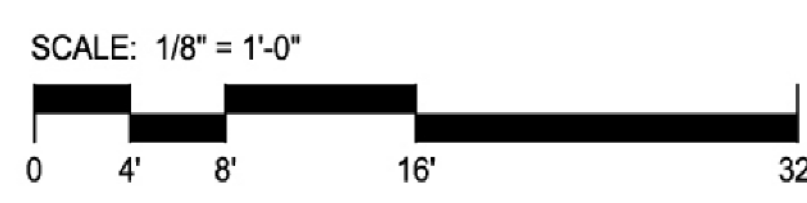
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I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

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NOTE:
SEE SHEET L2.00 FOR IRRIGATION LEGEND AND NOTES.

KEYMAP: OXFORD BASIN



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Culver City, California
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PARCEL OT
4220 Admiralty Way,
Marina Del Rey, California
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Issue dates

#	Date	Description

Sheet title:
IRRIGATION PLAN ENLARGEMENT

Designed by: DZ
Drawn by: CB
Checked by: DZ
Project number: 116040

L2.11

LATERAL LINE PIPE SIZING CHART

ALL LATERAL LINES FOR TREE BUBBLERS ON SITE AND ON STREETS SHALL HAVE A MINIMUM SIZE OF 1 INCH.

ALL LATERAL LINES FOR SPRAY HEADS AND BUBBLERS IN PLANTED AREAS SHALL HAVE A MINIMUM SIZE OF 3/4 INCH.

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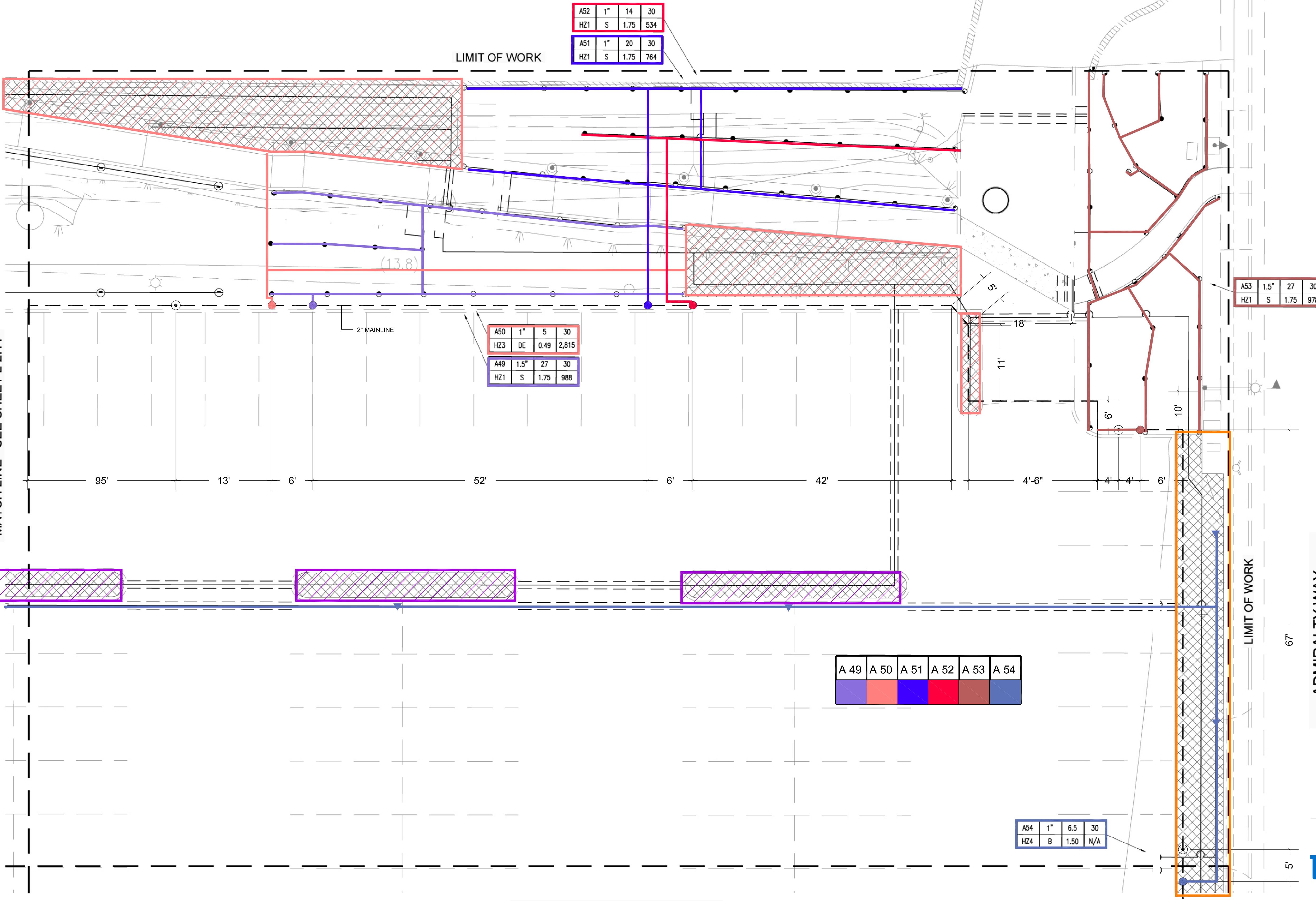
OXFORD RETENTION BASIN

WATER PRESSURE LOSS CALCULATIONS

WATER METER NUMBER	WATER METER SIZE (inches)
HYDRAULIC GRADE LINE (FT)	WATER METER ELEVATION (FT)
ELEVATION DIFFERENCE (FT)	MIN. REQ. STATIC PRESSURE (PSI)
64.0	64.0
REMOTE CONTROL VALVE #	REMOTE CONTROL VALVE SIZE (in.)
A2	1.50
R.C.V. DEMAND (GPM)	TOTAL DEMAND (GPM)
29	29
HIGHEST HEAD SERVED (FT)	STATIC PRESSURE AT HIGHEST HEAD

NOTE: PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY + ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

SIZE (inches)	DESCRIPTION	FLOW	#	LOSS
2.00	ISOLATION VALVES (BALL TYPE)	29	9	0.50 PSI
2.00	430 FEET OF MAINLINE, CL. 315 PVC	29	10	3.03 PSI
2.00	4 - 90 DEGREE ELBOWS	29	13	0.31 PSI
1.50	REMOTE CONTROL VALVE ASSEMBLY	29	14	3.60 PSI
10%	LATERAL LINE LOSSES	29	15	4.50 PSI
20%	FITTING LOSS (IN ADDITION TO ELBOWS SHOWN)	N/A	16	0.61 PSI
0.00	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	N/A	17	0.00 PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17)				
19 45.0 PSI				
PRESSURE REQUIRED AT HEAD (OPERATING PRESSURE)				
20 57.5 PSI				
TOTAL PRESSURE REQUIRED (SUM OF #16 AND #17)				
21 64.0 PSI				
STATIC WATER PRESSURE (FROM ABOVE)				
22 6.5 PSI				
RESIDUAL PRESSURE (SUBTRACT #20 FROM #21)				
23 N/A PSI				
SET PRV OR MCV AT (#20 PLUS 10 PSI)				
24 N/A PSI				
PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI RESIDUAL)				



NOTE A:
POINT OF CONNECTION (POC) #1 SHALL BE A CONNECTION TO THE ADJACENT 2.5" IRRIGATION MAINLINE AND TWO WIRE PATH. THE CONTRACTOR SHALL UPGRADE THE EXISTING ADJACENT RAIN BIRD JOHN DEERE GREEN TECH ASSEMBLY WITH A ESSENCE-SM75 STATION DECODER MODULE. THE CONTROLLER UPGRADE SHALL BE PROVIDED AND INSTALLED BY SITE ONE (JOHN DEERE GREEN TECH). THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. WHEN USING RECYCLED WATER, OR ON POTABLE WATER SYSTEMS REQUIRING A PUMP, ONLY THE MEASUREMENT OF DYNAMIC (WATER MOVING THROUGH THE METER) WATER PRESSURE SHALL BE ACCEPTABLE. THE DYNAMIC WATER PRESSURE SHALL BE MEASURED AT THE MAXIMUM SYSTEM DEMAND AS INDICATED BELOW. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

WATER PRESSURE REQUIRED AT POC:

DESIGN WATER PRESSURE:	64 PSI (STATIC)
MAXIMUM SYSTEM DEMAND:	58 PSI
RESIDUAL WATER PRESSURE:	29 GPM 6 PSI

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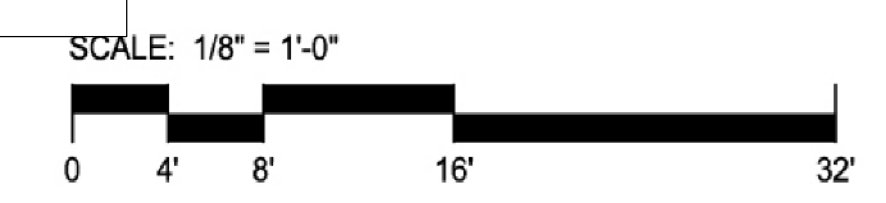
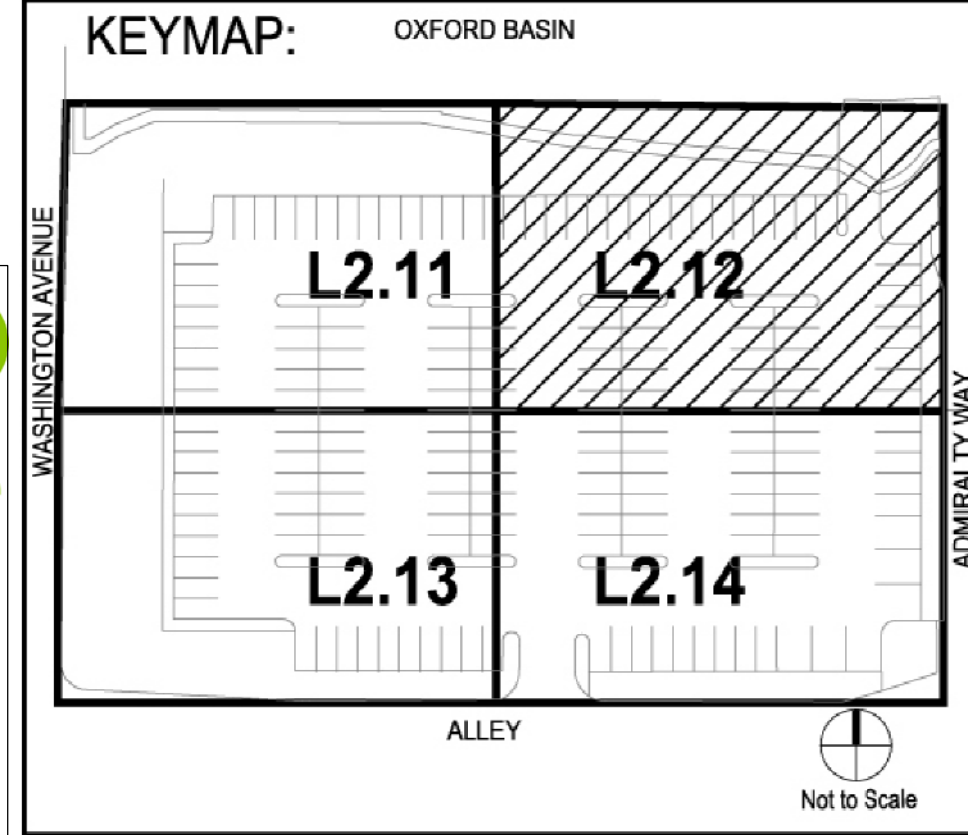
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Issue dates

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Sheet title:
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Designed by: DZ
Drawn by: CB
Checked by: DZ
Project number: 116040

L2.12

Plotted by: nick
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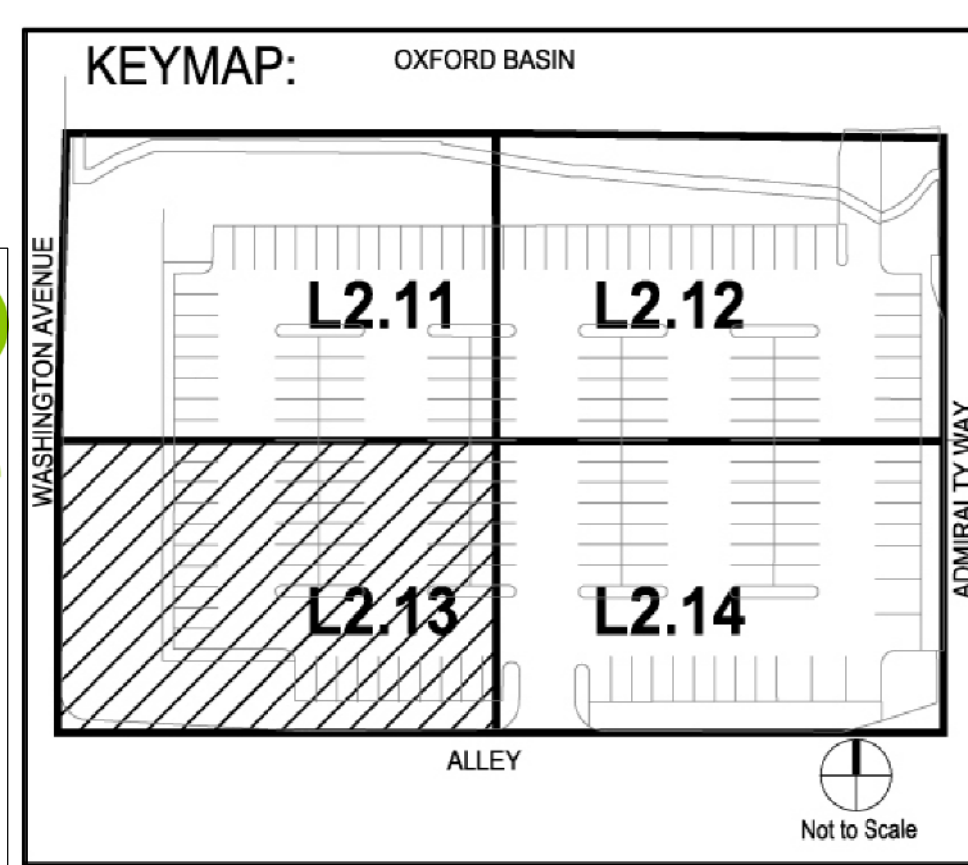
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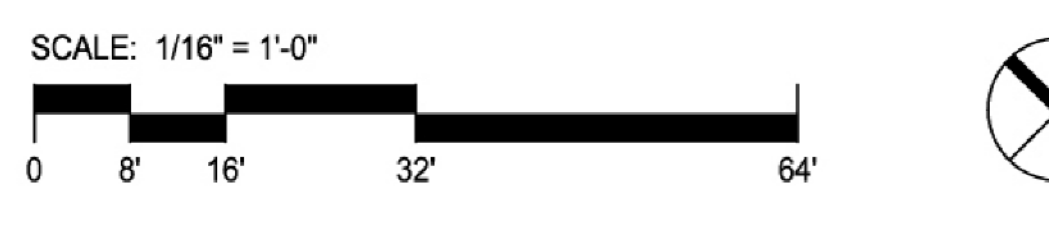
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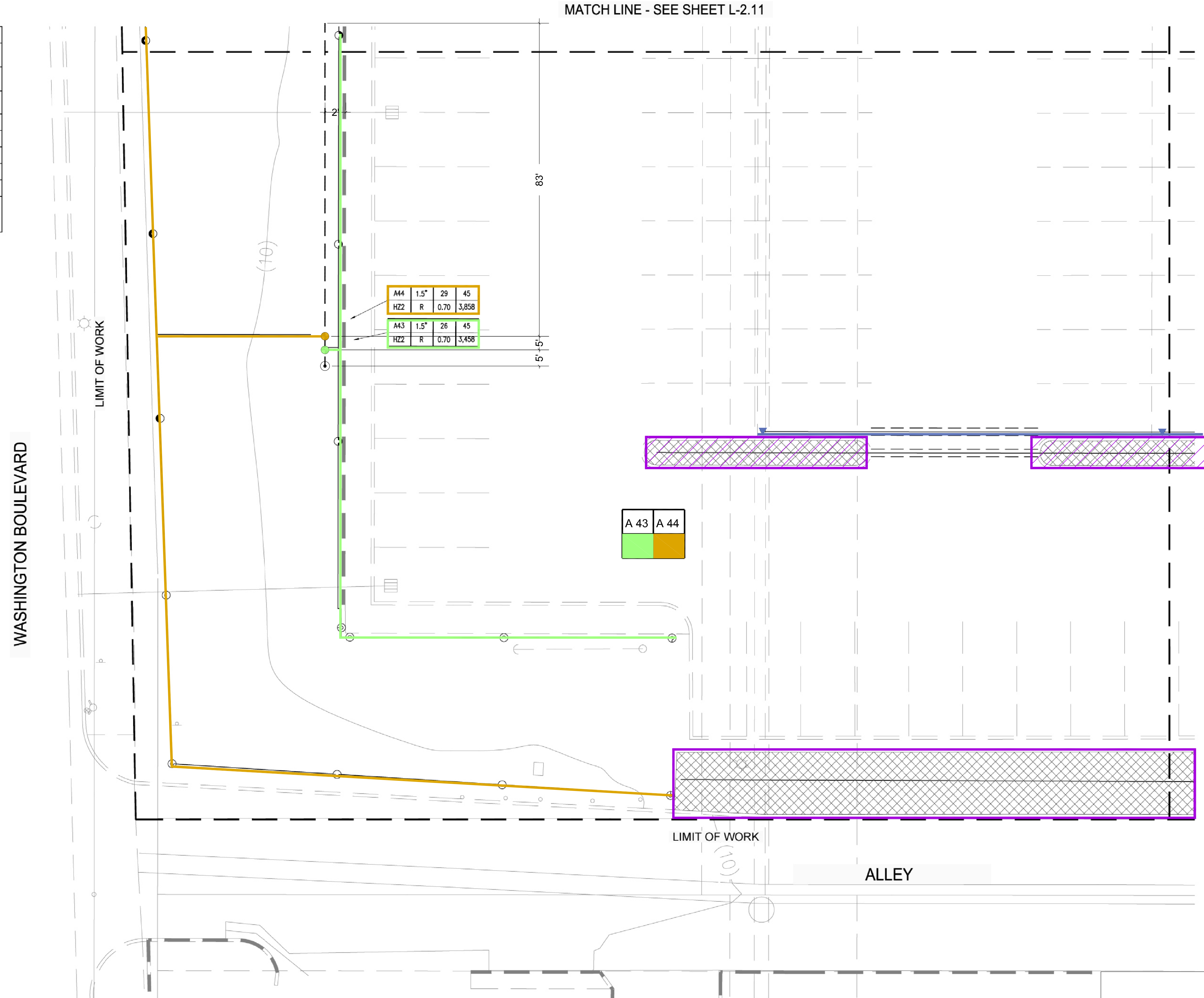
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LATERAL LINE PIPE SIZING CHART

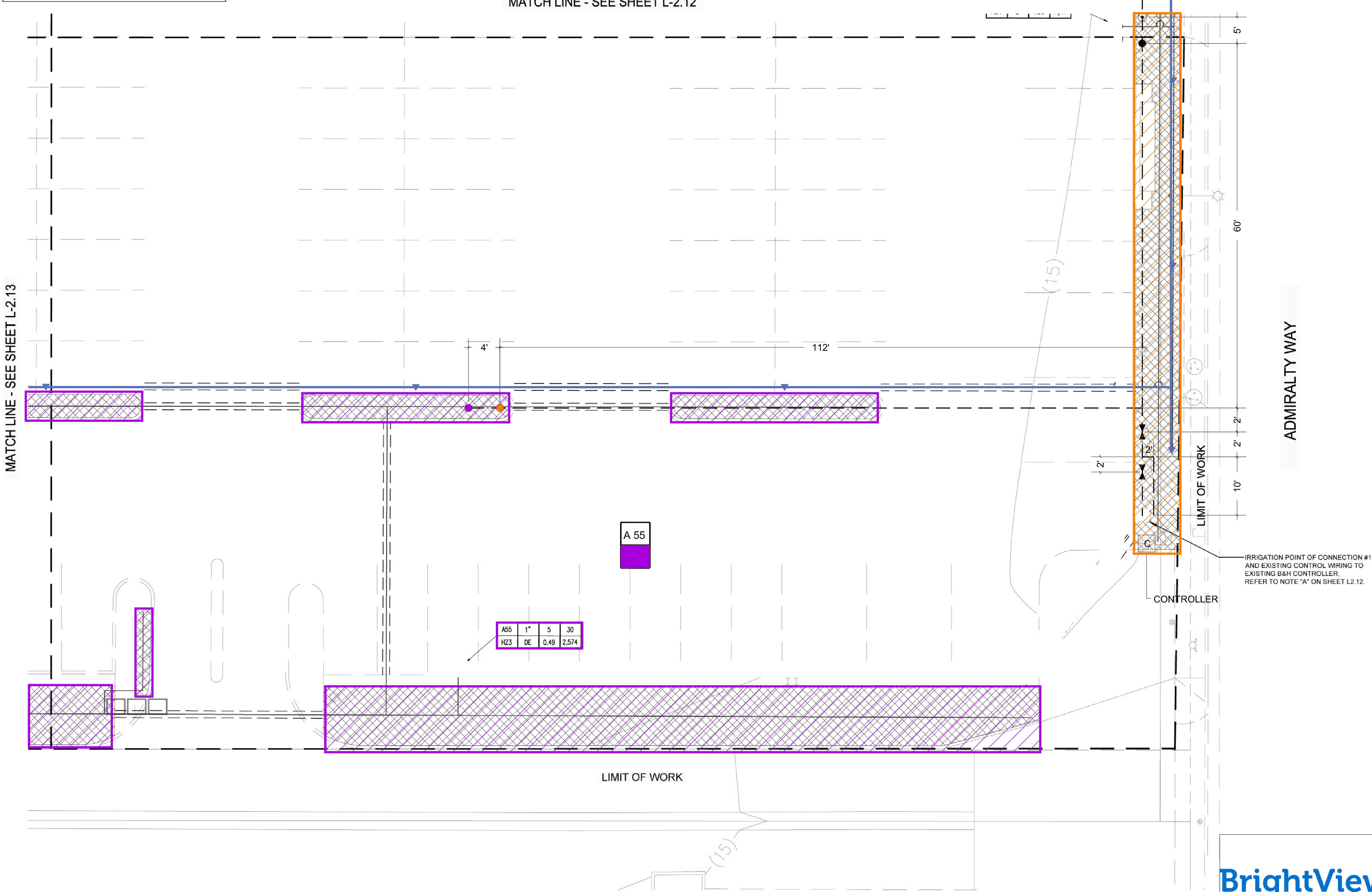
ALL LATERAL LINES FOR TREE BUBBLERS ON SITE AND ON STREETS SHALL HAVE A MINIMUM SIZE OF 1 INCH.

ALL LATERAL LINES FOR SPRAY HEADS AND BUBBLERS IN PLANTED AREAS SHALL HAVE A MINIMUM SIZE OF 3/4 INCH.

FLOW RANGE	MINIMUM SIZE OF LATERAL LINE
0 THROUGH 5 GPM	MINIMUM SIZE SHALL BE 3/4 INCH
6 THROUGH 11 GPM	MINIMUM SIZE SHALL BE 1 INCH
12 THROUGH 22 GPM	MINIMUM SIZE SHALL BE 1 1/4 INCH
23 THROUGH 30 GPM	MINIMUM SIZE SHALL BE 1 1/2 INCH
31 THROUGH 50 GPM	MINIMUM SIZE SHALL BE 2 INCH

ALL LATERAL LINES SHALL BE SCHEDULE 40 PVC. ALL LATERAL LINES INSTALLED UNDER PAVING SHALL BE PRESSURE TESTED PRIOR TO BURIAL.

MATCH LINE - SEE SHEET L-2.12



ASS	1"	5	30
HZ3	DE	0.49	2.574

A 55

IRRIGATION POINT OF CONNECTION #1 AND EXISTING CONTROL WIRING TO EXISTING BSH CONTROLLER. REFER TO NOTE "A" ON SHEET L2.12.

NOTE A:
THESE PLANS ARE DIAGRAMMATIC. THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE B:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC. TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

EXISTING IRRIGATION NOTES

NOTE 1:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL INTERRUPTIONS WITH THE OWNER'S REPRESENTATIVE.

NOTE 2:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

NOTE 3:
ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK AND UPON COMPLETION OF WORK.

NOTE 4:
CONTRACTOR SHALL CONFIRM THE EXISTING CONTROLLER MAKE AND MODEL AND SHALL CONFIRM THAT SAID CONTROLLER HAS ADEQUATE OPEN STATIONS TO OPERATE ANY ADJUSTED AND ALL PROPOSED IRRIGATION SYSTEM MODIFICATIONS. NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES BE NOTED.

NOTE 5:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/ROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE 6:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE 7:
CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO STARTING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.

NOTE 8:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH OWNER'S REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

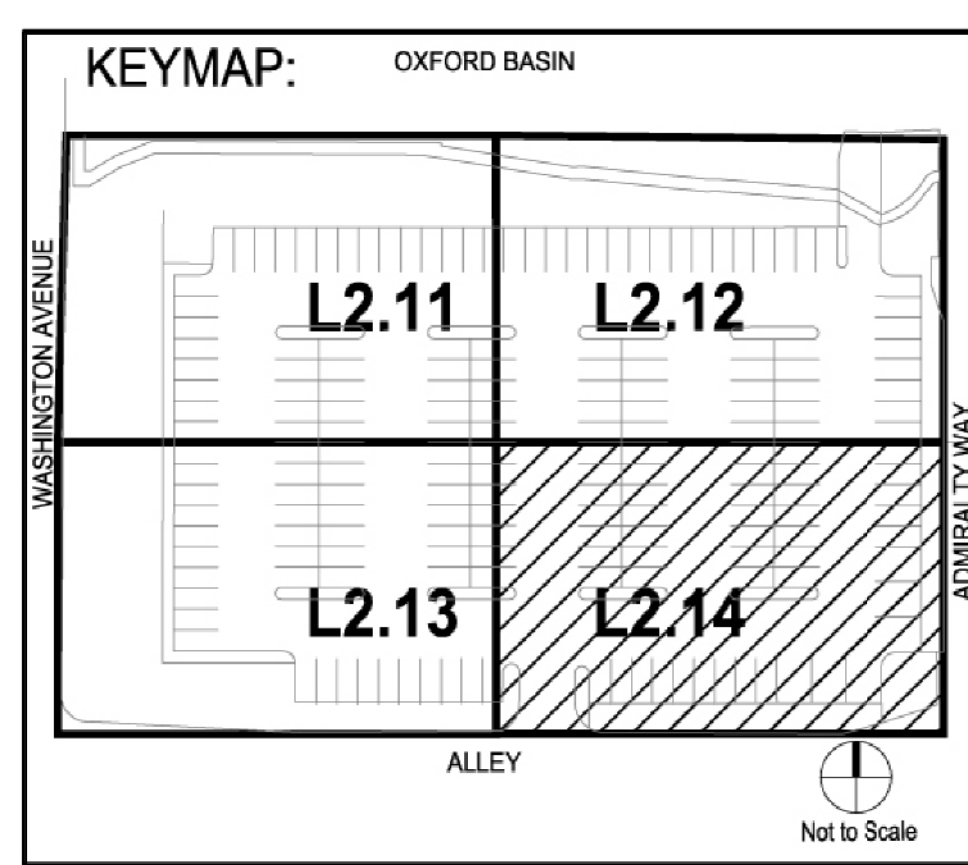
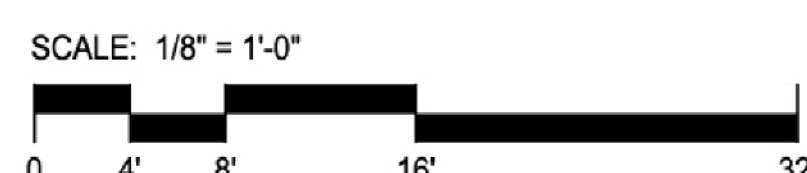
NOTE 9:
EXISTING IRRIGATION IN THIS AREA SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXISTING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF NECESSARY.

NOTE 10:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. AIR SPADE SHALL BE UTILIZED FOR ALL TRENCHING WITHIN THE DRIPLINE OF TREES. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS REQUIRED FOR THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE.

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

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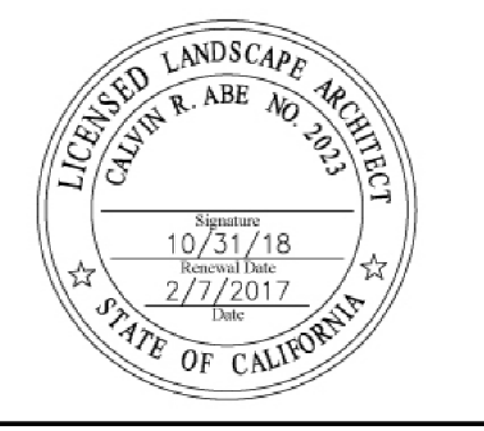
NOTE:
SEE SHEET L2.00 FOR IRRIGATION LEGEND AND NOTES.

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Issue dates

#	Date	Description

Sheet title:
**PLANTING PLAN
ENLARGEMENT**

Designed by: DZ
 Drawn by: CB
 Checked by: DZ
 Project number: 116040

L2.14