# LANDSCAPE ARCHITECTURE DRAWINGS FOR: ACME FAMILY APARTMENTS

1905 & 1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

#### **GENERAL NOTES:**

I. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO THE START OF CONSTRUCTION.

2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND SHALL BE HELD LIABLE FOR ALL DAMAGE INCURRED DURING CONSTRUCTION.

3. CONTRACTOR SHALL OBTAIN A CURRENT STRUCTURAL SOILS REPORT. THIS SOILS REPORT SHALL SUPERSEDE THE RECOMMENDATIONS AND DETAILS SHOWN ON THESE PLANS AND SPECIFICATIONS.

5. REFER TO SPECIFICATIONS FOR ACCEPTED STANDARDS OF MATERIALS AND WORKMANSHIP

6. ALL FORMS AND ALIGNMENT OF HARDSCAPE ITEMS SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE

VERIFY ALL SUCH CONDITIONS WITH OWNER'S NOTIFICATION.

9. ALL CURVE-TO-CURVE AND CURVE-TO-TANGENT LINES SHALL BE NEAT, TRIM, SMOOTH, AND UNIFORM.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR WEED ABATEMENT AS RECOMMENDED BY A LICENSED PEST CONTROL

13. CONTRACTOR SHALL OBTAIN A CURRENT AGRONOMIC SOILS REPORT. THIS SOILS REPORT SHALL SUPERSEDE THE

14. THE LANDSCAPE CONTRACTOR IS TO ENSURE THAT IRRIGATION AND DRAIN LINES ARE LOCATED AND INSTALLED SO

15. IF ANY CONCRETE WORK SHOWN ON THESE PLANS ABUTS WOOD SIDING ON BUILDINGS, INSTALL GALVANIZED METAL

16. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION REFERENCED IN THE PLANS AND SPECIFICATIONS. ANY CONSTRUCTION NOT MEETING THE APPROVAL OF THE OWNER OR THE LANDSCAPE ARCHITECT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH ACCEPTABLE

17. ALL DIMENSIONS SHALL BE VERIFIED AGAINST EXISTING CONDITIONS AND ANY DISCREPANCIES REPORTED TO THE

#### DIG ALERT:

CALIFORNIA STATE LAW SAYS YOU MUST CALL BEFORE YOU DIG. GOVERNMENT CODE SECTION 4216-42169 STATES THAT "EXCAVATION": GRADING, TRENCHING, DIGGING, DITCHING, DRILLING, AUGURING, TUNNELING, SCAPING, CABLE OR PIPE PLOWING, DRIVING, FOUNDATION DIGGING, LANDSCAPE DIGGING PLUMBING, FENCE POST OR ANY OTHER WAY. OUR PERMIT FOR DIGGING WILL NOT BE VALID WITHOUT A DIG ALERT TICKET NUMBER AND NOTIFICATION THAT THE MARKOUT HAS BE COMPLETED. THERE IS ALSO A 14-DAY WINDOW (SECTION 4216.(E)) IN WHICH YOU MUST COMPLETE THE PROPOSED DIGGING. IF YOU WILL NEED ADDITIONAL TIME BEYOND THE 14 DAYS. IT IS YOUR RESPONSIBILITY TO RECALL DIG ALERT. DIG ALERT TOLL-FREE NUMBER IS 1.800.227.2600

#### **ABBREVIATIONS:**

ARCHITECT	LOW	LIMIT of WORK	TC	TOP of CURB
BACK of WALK	LP	LOW POINT	TG	TOP of GRATE
BOTTOM of STEPS	MAX.	MAXIMUM	TS	TOP of STEPS
CATCH BASIN	MIN.	MINIMUM	TW	TOP of WALL
CURB FACE	NIC	NOT in CONTRACT	VERT.	VERTICAL
COLD JOINT	NTS	NOT to SCALE	W/	WITH
CENTERLINE	OC	ON CENTER	W/O	WITHOUT
CONCRETE MASONRY UNIT	PA	PLANTING AREA	WWM	WELDED WIRE MES
CLEAN OUT	PERF.	PERFORATED		
COMPACTED	POC	POINT of CONNECTION		
. CONCRETE	PL	PROPERTY LINE		
. CONTINUOUS	R.	RADIUS		
DIAMETER	REBAR	REINFORCING BAR		
EACH	SIM.	SIMILAR		
EXPANSION JOINT	SAD	SEE ARCHITECT DRAWING	ì	
FACE of BUILDING				
FACE of WALL	SED	SEE ELECTRICAL DRAWING	3	
FINISH FLOOR ELEVATION	SIDD	SEE INTERIOR DESIGN DRA	WING	
FINISH GRADE	SL	SCORE LINE		
FLOW LINE	SMB	SEE MATERIAL BOARD		
FINISH SURFACE			1G	
FOOTING	SP	SEE PLAN		
GROUND COVER				
. HORIZONTAL	SPS	SEE PAVING SCHEDULE		
HIGH POINT		-		
INSIDE DIAMETER	SSD	SEE STRUCTURAL DRAWIN	IG	
INVERT (ELEVATION)	SWD	SEE WATERPROOF DRAWII	NG	
LANDSCAPE ARCHITECT				
	BACK of WALK BOTTOM of STEPS CATCH BASIN CURB FACE COLD JOINT CENTERLINE CONCRETE MASONRY UNIT CLEAN OUT COMPACTED CONCRETE CONTINUOUS DIAMETER EACH EXPANSION JOINT FACE of BUILDING FACE of WALL FINISH FLOOR ELEVATION FINISH GRADE FLOW LINE FINISH SURFACE FOOTING GROUND COVER HORIZONTAL HIGH POINT INSIDE DIAMETER INVERT (ELEVATION)	BACK of WALK BOTTOM of STEPS MAX. CATCH BASIN CURB FACE COLD JOINT CENTERLINE CONCRETE MASONRY UNIT CLEAN OUT COMPACTED CONCRETE CONTINUOUS DIAMETER EACH EXPANSION JOINT FACE of BUILDING FACE of WALL FINISH FLOOR ELEVATION FINISH GRADE FLOW LINE FINISH SURFACE FOOTING GROUND COVER HORIZONTAL HIGH POINT INSIDE DIAMETER SYD INVERT (ELEVATION) SIDD SYD SYD SYD	BACK of WALK BOTTOM of STEPS MAX. MAXIMUM CATCH BASIN MIN. MINIMUM CURB FACE COLD JOINT CENTERLINE CONCRETE MASONRY UNIT COMPACTED CONCRETE CONCRETE CONTINUOUS DIAMETER EACH EXPANSION JOINT FACE of BUILDING FACE of WALL FINISH GRADE FLOW LINE FLOW LINE FOOTING GROUND COVER FOOTING GROUND COVER FOR THE SAD SEE PLAN GROUND COVER FOR THE SAD SEE MATERIAL BOARD FINISH SURFACE SMD SEE MECHANICAL DRAWING FOOTING SP SEE PLAN GROUND COVER FOOTING SP SEE PLAN GROUND COVER FINISH GRADE FINISH GRADE FINISH SURFACE SMD SEE MECHANICAL DRAWING FOOTING SP SEE PLAN GROUND COVER SPD SEE PLUMBING DRAWING FOOTING SP SEE PAVING SCHEDULE HIGH POINT SQ. SQUARE INSIDE DIAMETER SSD SEE STRUCTURAL DRAWING INVERT (ELEVATION)	BACK of WALK BOTTOM of STEPS MAX. MAXIMUM TS CATCH BASIN MIN. MINIMUM CURB FACE NIC NOT in CONTRACT VERT. COLD JOINT NTS NOT to SCALE W/ CENTERLINE OC ON CENTER CONCRETE MASONRY UNIT CLEAN OUT COMPACTED POC POINT of CONNECTION CONCRETE PL PROPERTY LINE CONTINUOUS R. RADIUS DIAMETER EACH SIM. SIMILAR EXPANSION JOINT SAD SEE ARCHITECT DRAWING FACE of BUILDING FACE of WALL FINISH FLOOR ELEVATION FINISH GRADE FLOW FINISH SURFACE SMD SEE MECHANICAL DRAWING FOOTING GROUND COVER SPD SEE PLUMBING DRAWING FOOTING SP SEE PLUMBING DRAWING HORIZONTAL SPS SEE PAVING SCHEDULE HIGH POINT SQ. SQUARE INSIDE DIAMETER SSD SEE STRUCTURAL DRAWING

### NOTE:

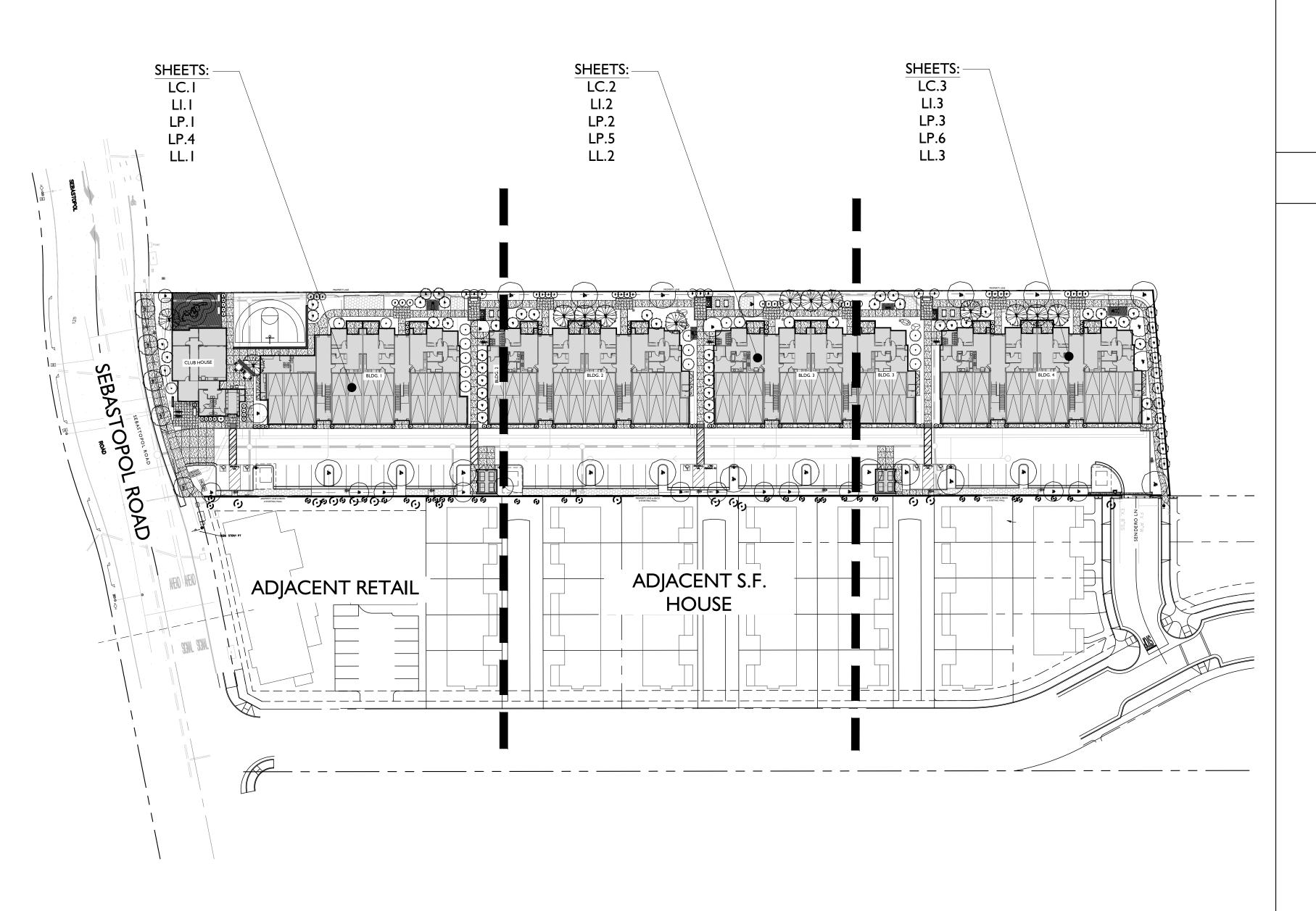
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF MJS DESIGN GROUP (A CALIFORNIA CORPORATION) AND SHALL NOT BE USED ON ANY OTHER WORK EXCEPT BY PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED ON THE JOB SITE AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF MJS DESIGN GROUP PRIOR TO COMMENCEMENT OF ANY WORK.

NOTES

#### LEGAL DESCRIPTION

PROPERTY ADDRESS

1905 &1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407



### GOVERNING AGENCIES

OWNER: MILESTONE HOUSING GROUP, LLC. 481 N SANTA CRUZ AVE. LOS GATOS, CA 95030 PH: (727) 204-8128 **CONTACT: MARCUS GRIFFIN** MARCUS@MILESTONEHOUSING.COM

**GOUVIS ENGINEERING CONSULTING** GROUP INC. 15 STUDEBAKER

STRUCTURAL & MEP:

**IRVINE, CA 92618** PH: (949) 752-1612 CONTACT: HUAN NGUYEN HNGUYEN@GOUVISGROUP.COM

**ELECTRICAL:** GOUVIS ENGINEERING CONSULTING GROUP INC. 15 STUDEBAKER

**IRVINE, CA 92618** PH: (949) 752-1612 **CONTACT: MEDHI HOSSEINZADEH** MEDHI@GOUVISGROUP.COM

ARCHITECT:

**CIVIL ENGINEER:** 

CIVIL DESIGN CONSULTANTS, INC. 2200 RANGE AVE. SUITE 204 SANTA ROSA, CA 95403 PH: (707) 542-4820 **CONTACT: DUSTIN MAXAM** DUSTIN@CIVILDESIGNCONSULTANTS.COM

PARISIS PORTFOLIO 616 SOUTH EL CAMINO REAL, #A SAN CLEMENTE, CA 92672 PH: (858) 259-0031 **CONTACT: JENNIFER GIFFEN** 

KTGY GROUP, INC. 17911 VON KARMAN AVE. IRVINE. CA 92614 PH: (949) 851-2133 CONTACT: MICHAEL SAENZ MSAENZ@KTGY.COM

**INTERIOR:** 

JENNY@PARISIPORTFOLIO.COM

107,055 SQ. FT. = 2.46 ACRES

 $81,910 \, SQ. \, FT. = 1.80 \, ACRES$ 

24,145 SQ. FT. = 0.58 ACRES

APN: 125-071-016,015

1905 & 1885

SEBASTOPOL ROAD

SANTA ROSA, CA

03/15/21 100% DESIGN DEVELOPMENT

ARCHITECTURE

Newport Beach, CA 92663

507 30th Street

**6** 949.675.9964

NOT FOR

CONSTRUCTION

**ACME FAMILY** 

mis-la.com

Revisions:

## MILESTONE HOUSING GROUP

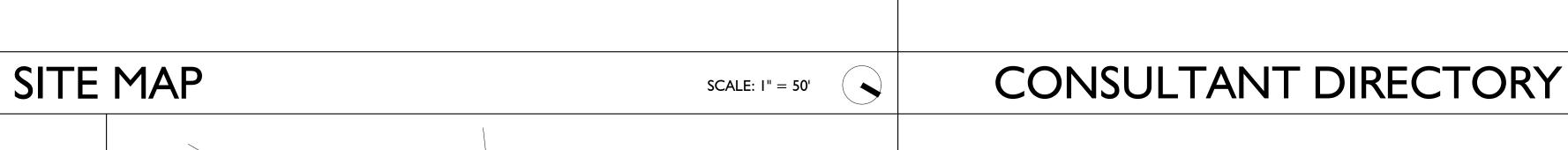
481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030

Drawn By: NL Checked By: MS Plan Date: 06.02.2021

Scale: See Sheet

**COVER SHEET** 

CONSTRUCTION DOCUMENTS



NORTH

Т.0	COVER SHEET		
JC.I thru LUC.3	UTILITY COORDINATION PLAN	WEST 3RD ST	
C.A C.B	CONSTRUCTION FINISH SCHEDULE and NOTES MATERIALS BOARD	DOIN	
C.1 thru LC.3 CD.4 thru LCD.9 C.10	LANDSCAPE CONSTRUCTION PLANS LANDSCAPE CONSTRUCTION DETAILS LANDSCAPE CONSTRUCTION SPECIFICATIONS	HWY 12	
OT INCLUDED	STRUCTURAL LANDSCAPE DETAILS	SEBASTOPOL RD PRO	JECT LOCATION
.1 thru L1.3 .4 .5 .6 thru L1.7 .8 thru L1.9	IRRIGATION PLANS IRRIGATION LEGEND IRRIGATION NOTES & CALCULATIONS IRRIGATION DETAILS IRRIGATION SPECIFICATIONS	SEBASTOTO BUTTON SEBAST	
P.I thru LP.3 P.4 thru LP.6 P.7 P.8	TREE PLANTING PLAN SHRUB PLANTING PLAN PLANTING DETAILS PLANTING SPECIFICATIONS	AY POINT	
I thru LL.3	LANDSCAPE SITE LIGHTING "FOR COORDINATION ONLY"	<b>공</b>	
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SHEET INDEX

VICINITY MAP

**MAINTENANCE RESPONSIBILITY:** 

**TOTAL SITE ACREAGE:** 

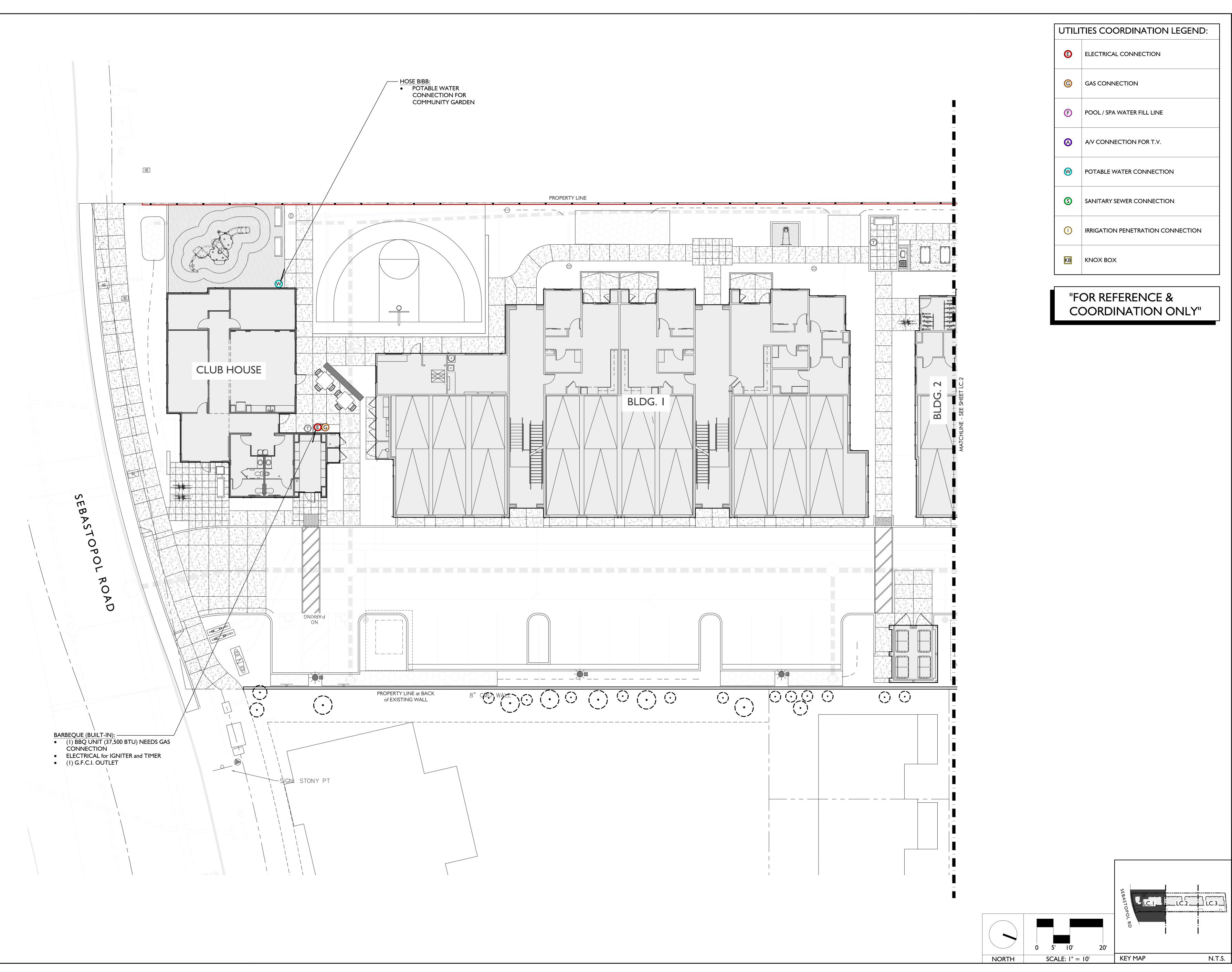
**TOTAL HARDSCAPE AREA:** 

TOTAL LANDSCAPE AREA:

ALL LANDSCAPE AREAS TO BE OWNER MAINTAINED 2. LANDSCAPE CONTRACTOR TO PROVIDE MAINTENANCE

SCHEDULE FOR COMMON AREAS

N.T.S. **APPROVALS** 



03/15/21 100% DESIGN DEVELOPMENT

Issued for:

L A N D S C A P E ARCHITECTURE

507 30th Street
 Newport Beach, CA 92663

 949.675.9964
 mjs-la.com

NOT FOR CONSTRUCTION

Project:

# ACME FAMILY APARTMENTS

1905 &1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

Client:

## MILESTONE HOUSING GROUP

481 N. SANTA CRUZ AVENUE LOS GATOS, CA 95030

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Job No: 
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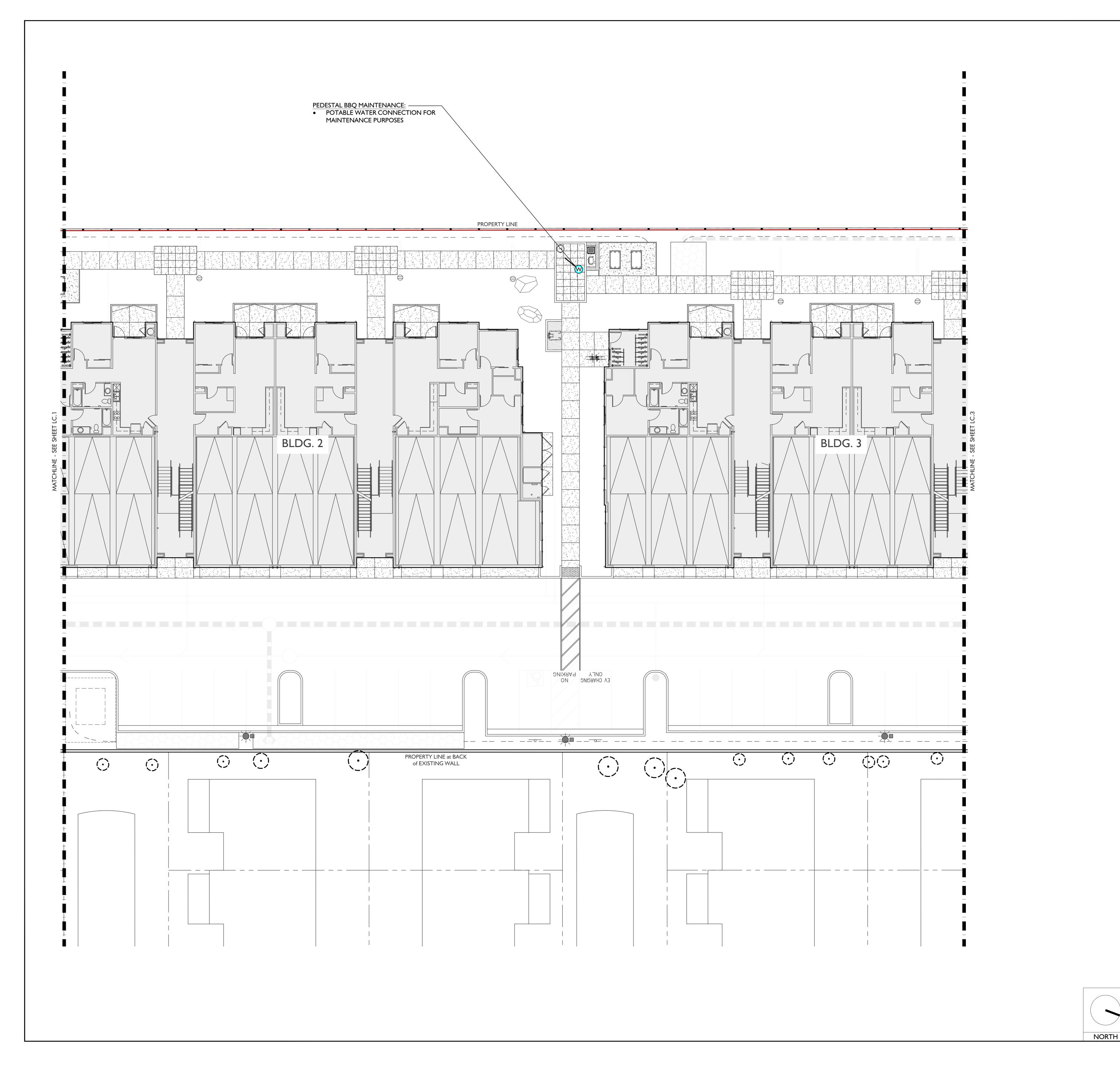
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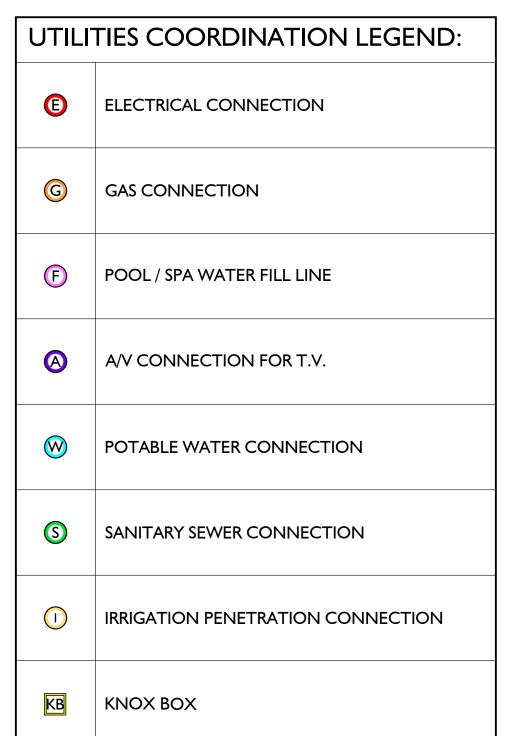
Scale: See Sheet
Title:

UTILITY COORDINATION
PLAN

neet No.:

LUC.1





"FOR REFERENCE & COORDINATION ONLY"

KEY MAP

SCALE: I" = 10'

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	03/15/21	100% DESIGN	N DEVELOPMENT
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LANDSCAPE ARCHITECTURE

507 30th Street Newport Beach, CA 92663 949.675.9964 mjs-la.com

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Project:

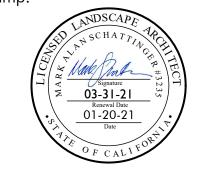
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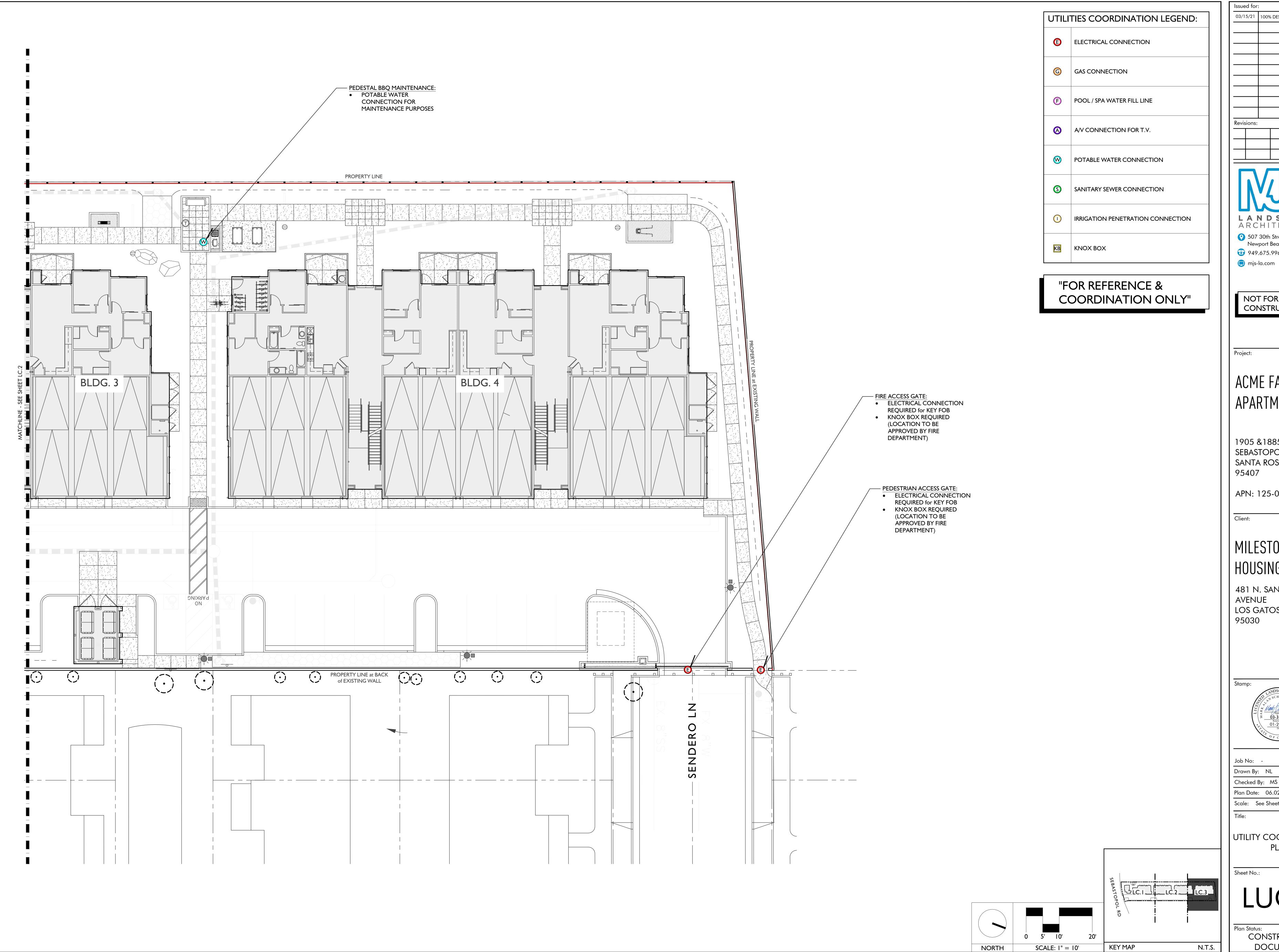


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UTILITY COORDINATION



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LANDSCAPE ARCHITECTURE

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UTILITY COORDINATION

#### **CONSTRUCTION NOTES**

- I. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
- 2. CONTRACTOR SHALL NOT WILFULLY PROCEED WITH CONSTRUCTION WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND / OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
- 3. CONTRACTOR SHALL OBTAIN A CURRENT STRUCTURAL SOILS REPORT. THIS SOILS REPORT SHALL SUPERSEDE THE RECOMMENDATIONS AND DETAILS SHOWN ON THESE PLANS AND SPECIFICATIONS.
- 4. THE LOCATION OF FEATURES TO BE CONSTRUCTED, NOT SPECIFICALLY DIMENSIONED MAY BE DETERMINED BY SCALE. VERIFY ALL SUCH CONDITIONS WITH OWNER'S REPRESENTATIVE.
- 5. ALL CURVE-TO-CURVE AND CURVE-TO-TANGENT LINES SHALL BE NEAT, TRIM, SMOOTH, AND UNIFORM.
- 6. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SLEEVES AS INDICATED ON THE IRRIGATION PLANS WITH PAVING CONTRACTOR.
- 7. ALL FORMS AND ALIGNMENT OF HARDSCAPE ITEMS SHALL BE INSPECTED AND APPROVED BY THE

#### LANDSCAPE ARCHITECT PRIOR TO POURING. (CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS PRIOR TO THE INSPECTION.)

#### MASONRY WALL NOTES

- I. THE CONTRACTOR SHALL GROUT ALL CELLS WITH STEEL REINFORCING SOLID. IF RETAINING SOIL GROUT ALL CELLS SOLID.
- 2. THE CONTRACTOR SHALL CONSTRUCT WALLS PLUMB AND TRUE, STEP FOOTINGS IN EVEN BLOCK INCREMENTS.
- 3. THE CONTRACTOR SHALL ALLOW FOR ADJOINING CONSTRUCTION.
- 4. ALL FOOTINGS SHALL BE POURED ON UNDISTURBED NATURAL SOIL. ON COMPACTED FILL, PREPARE PER STRUCTURAL SOILS REPORT.
- 5. ALL FREESTANDING WALLS SHALL HAVE A MINIMUM OF 40 BAR DIAMETERS OVERLAP AT SPLICES. ALL RETAINING WALL SPLICES SHALL BE A MINIMUM OF 48 BAR DIAMETERS.
- 6. DOWELS SHALL BE AT LEAST EQUAL IN SIZE AND SPACING TO VERTICAL BARS UNLESS OTHERWISE NOTED.
- 7. REFER TO FINISH SCHEDULE FOR ALL WALL FINISHES.

#### **PAVER NOTES:**

PAVER LAYOUT SHALL BE DETERMINED BY LIMITING THE AMOUNT OF CUTS MADE TO THE LONG SIDE OF THE PAVER, IN ORDER TO MINIMIZE "SLIVER" PIECES.

PAVER SHALL BE CLEAN AND FREE FROM FOREIGN MATERIALS BEFORE INSTALLATION.

INSTALLATION SHOULD START FROM A CORNER OR STRAIGHT EDGE AND PROCEED FORWARD OVER THE UNDISTURBED SAND LAYING COURSE.

PAVING WORK SHALL BE PLUMB, LEVEL, AND TRUE TO LINE GRADE; SHALL BE INSTALLED PROPERLY, COINCIDE AND ALIGN, WITH ADJACENT WORK AND ELEVATIONS.

PAVING STONES SHOULD BE INSTALLED HAND TIGHT ON THE UNDISTURBED SAND LAYING COURSE. STRING LINES SHOULD BE USED TO HOLD PATTERN LINES TRUE.

GAPS BETWEEN THE EDGE OF THE PAVER SURFACE SHALL BE FILLED WITH STANDARD PAVERS OR WITH PAVERS CUT TO FIT. CUT PAVERS SHOULD BE NO SMALLER THAN ONE THIRD THE SIZE OF FULL PAVERS. CARE SHOULD BE TAKEN WHEN ESTABLISHING THE LAYING PATTERN TO INSURE THAT LESS THAN ONE THIRD PAVERS ARE MINIMIZED.

PAVERS ARE SET INTO THE SAND LAYING COURSE BY ROLLER OR PLATE VIBRATOR CAPABLE OF 3,000 TO 5,000 COMPACTION FORCE. VIBRATION SHALL BE CONDUCTED IN CROSSING PATHS UNTIL THE PAVEMENT SURFACE IS SMOOTH AND REQUIRED ELEVATION IS ACHIEVED. GAPS BETWEEN PAVERS SHOULD AT THIS POINT SHOULD BE FILLED TO ABOUT TWO THIRDS OF THE PAVER'S FULL HEIGHT. GAPS BETWEEN EDGES SHOULD BE NO MORE THAN 3/16" WIDE AFTER VIBRATION. GAPS GREATER THAN 3/16" SUGGEST THAT LESS THAN SATISFACTORY INTERLOCK WILL BE ACHIEVED. PAVERS WITHIN THREE FEET OF UNRESTRAINED EDGES MUST NOT BE COMPACTED.

ONCE PAVERS ARE VIBRATED INTO PLACE. CLEAN, DRY SAND SHALL BE BROOMED OVER THE PAVEMENT SURFACE AND VIBRATED ONCE MORE INTO THE REMAINING UNFILLED GAPS BETWEEN PAVERS TO THE HEIGHT OF THE JOINT BEVEL. SURPLUS SAND SHOULD BE SWEPT FROM THE PAVEMENT SURFACE AND DISPOSED OF.

THE COMPLETED PAVING STONE INSTALLATION SHOULD BE WASHED DOWN AND CLEANED TO PROVIDE A CLEAN FINISHED WORKMANLIKE INSTALLATION.

#### LIST OF INSPECTIONS

THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE OF, AND COORDINATE, THE FOLLOWING INSPECTIONS (BUT NOT LIMITED TO):

,

I. PRE-JOB CONFERENCE.

2. AT COMPLETION OF FINISH GRADING.

3. LAYOUT OF SHOVEL CUTS BUT PRIOR TO INSTALLATION.

5. LAYOUT OF WALLS AND PILASTERS BUT PRIOR TO INSTALLATION.

4. LAYOUT OF PAVING BUT PRIOR TO INSTALLATION.

6. DURING ENTIRE IRRIGATION INSTALLATION TO VERIFY AND INSPECT THE FOLLOWING (BUT NOT LIMITED TO):

a. POINT OF CONNECTIONS

b. BACKFLOW PREVENTION DEVICES c. TRENCHING FOR PIPES

d. ELECTRICAL CONNECTIONS

e. CONTROL VALVES f. COVERAGE

7. AT DELIVERY OF ALL PLANT MATERIALS TO THE SITE.

8. WHEN TREES AND SHRUBS ARE SPACED FOR PLANTING BUT BEFORE HOLES ARE EXCAVATED.

9. AT PRE-MAINTENANCE INSPECTION.

10. AT FINAL INSPECTION.

#### PAVING NOTES

I. THE CONTRACTOR SHALL VERIFY WITH PROJECT STRUCTURAL SOILS ENGINEER THE NEED FOR REINFORCING, BASE MATERIALS, PRESATURATION, AND OTHER REQUIREMENTS FOR PAVING AREAS.

2. ALL CONCRETE PAVING SECTIONS SHALL BE A MINIMUM OF 3 1/2" THICK UNLESS OTHERWISE NOTED.

3. PAVING AND CONCRETE CONTRACTOR(S) SHALL COORDINATE HIS WORK WITH ELECTRICIAN, DRAIN LINE CONTRACTOR AND IRRIGATION CONTRACTOR FOR SLEEVING, PIPING, AND CONDUIT UNDER ALL PAVING AS REQUIRED.

4. THE CONTRACTOR SHALL HOLD FINISH GRADE (I") INCH BELOW FINISH SURFACE.

5. THE CONTRACTOR SHALL SLOPE ALL FINISH SURFACE AREAS A MINIMUM OF ONE PERCENT. UNLESS NOTED OTHERWISE.

6. ALL WALKS SHALL HAVE CROSS FALL OF ONE PERCENT MINIMUM.

7. REFER TO FINISH SCHEDULE FOR CONCRETE FINISH.

8. ALL WALK INTERSECTIONS SHALL BE 90 DEGREES UNLESS NOTED OTHERWISE.

9. ALL RADII AT WALK INTERSECTIONS SHALL BE 36" UNLESS NOTED OTHERWISE.

10. FULL DEPTH EXPANSION JOINTS ARE TO BE SPACED AT MAXIMUM 20' O.C., SCORE LINES TO BE MAXIMUM 10'

II. ALL FORMS AND ALIGNMENT OF PAVING SHALL BE INSPECTED AND CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS PRIOR TO INSPECTION.

12. REFER TO PRECISE GRADING PLAN FOR FINISH GRADES AND DRAINAGE.

PAVING SCH		MANUEACTURE		COMMENTS	INAACE
SYMBOL	CONCRETE PAVING	MANUFACTURER  N.A.	COLOR / FINISH  COLOR: NATURAL GRAY  FINISH: TOPCAST 3	<ul> <li>INSTALL PER MANUFACTURER'S RECOMMENDATIONS</li> <li>SAWCUTS PER PLAN</li> </ul>	IMAGE
B	SYNTHETIC TURF IMPERIAL FESCUE	IMPERIAL SYNTHETIC TURF CONTACT: HENRY VAN ANTWERP 561.346.5973	IMPERIAL FESCUE 47	<ul> <li>SEE DETAIL FOR ASSEMBLY - INSTALL PER MANUFACTURER'S RECOMMENDATIONS INCLUDING FILL</li> <li>INSTALL PER DETAIL F, LCD.4</li> </ul>	
©	BASKETBALL COURT SURFACING	DECO TURF PH. (978) 623 - 9980	COLOR: ROYAL BLUE ADOBE TAN (LINES)  FINISH: STANDARD	<ul> <li>INSTALL PER MANUFACTURER'S         RECOMMENDATIONS</li> <li>SEE DETAIL D, LCD.7</li> <li>SEAL PER MANUFACTURERS         RECOMMENDATIONS</li> </ul>	ROYAL BLUE ADOBE TAN
<b>(D)</b>	STABILIZED DECOMPOSED GRANITE	SOUTHWEST BOULDER & STONE PH.: (760) 451 - 3333 CONTACT: ERIKA TREPTOW	DESERT GOLD DECOMPOSED GRANITE	INSTALL per MANUFACTURER'S     RECOMMENDATIONS	

NOTES: CONTRACTOR TO PROVIDE 5' X 5' MOCK-UP OF ALL PAVING FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.

Revisions:

LANDSCAPE
ARCHITECTURE

03/15/21 100% DESIGN DEVELOPMENT

NOT FOR

CONSTRUCTION

Newport Beach, CA 92663

507 30th Street

**3** 949.675.9964

mis-la.com

Project:

## ACME FAMILY APARTMENTS

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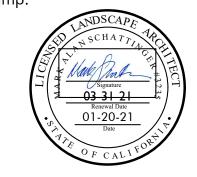
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Clien

## MILESTONE HOUSING GROUP

481 N. SANTA CRUZ AVENUE LOS GATOS, CA 95030

lamp:



Job No: -Drawn By: NL

Checked By: MS
Plan Date: 06.02.2021

Scale: See Sheet

CONSTRUCTION NOTES & PAVING SCHEDULE

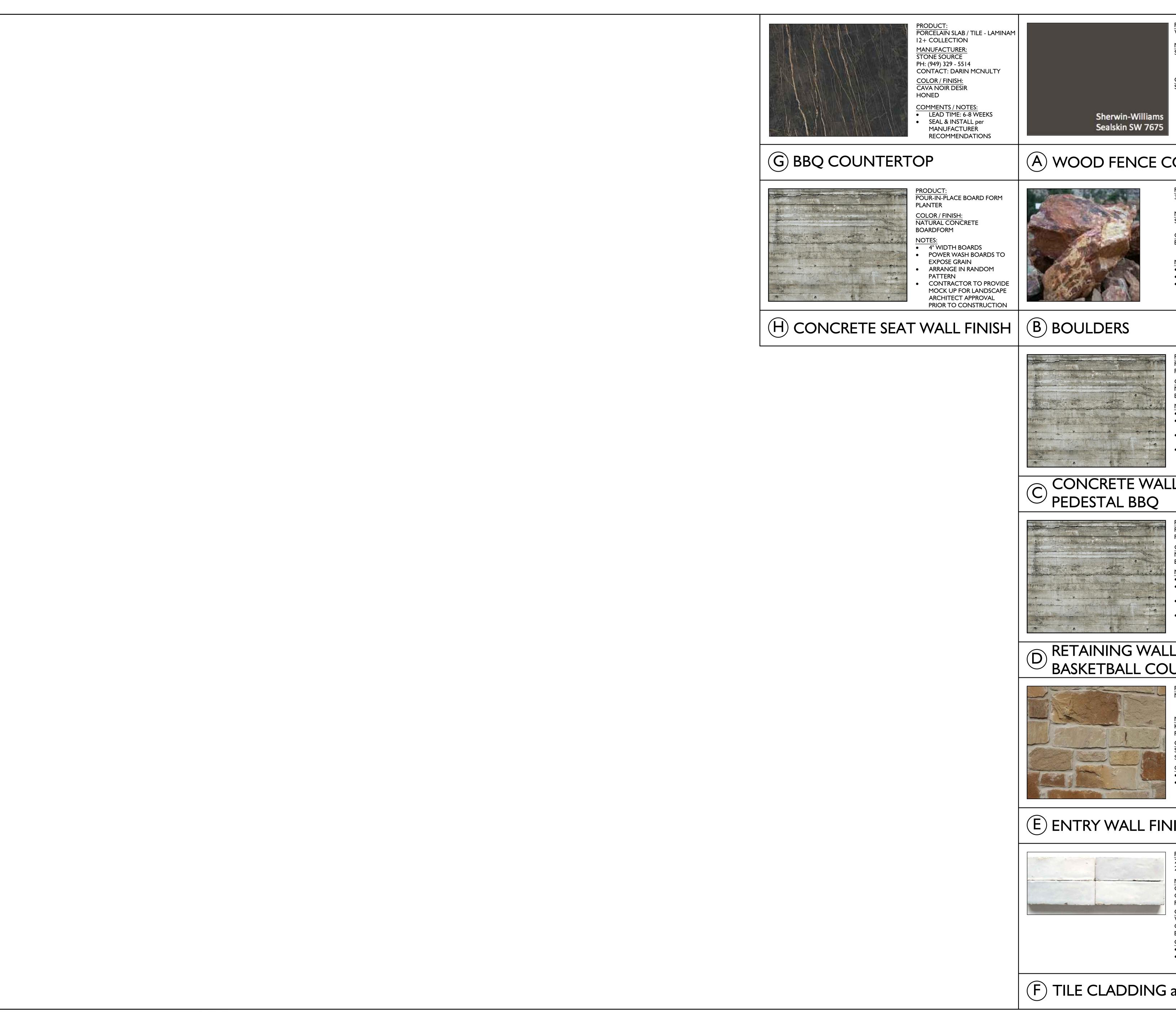
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CONSTRUCTION

DOCUMENTS

CONSTRUCTION NOTES PAVING SCHEDULE

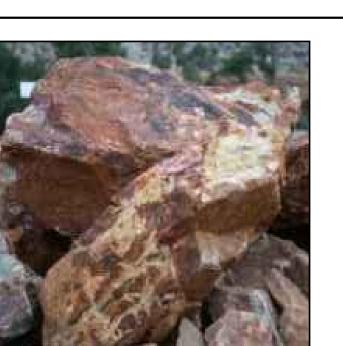




PRODUCT:
WOOD FENCE COLOR FINISH MANUFACTURER: SHERWIN - WILLIAMS

COLOR / FINISH: SEALSKIN SW 7675

(A) WOOD FENCE COLOR



PRODUCT: 3' BOULDER

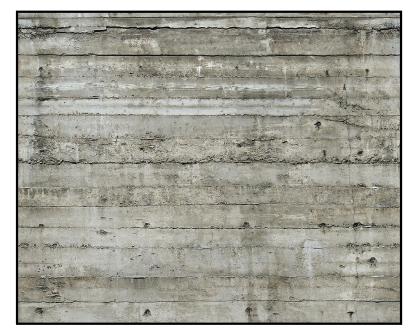
MANUFACTURER: SOUTHWEST BOULDER & STONE

COLOR / FINISH: BAJA CRESTA BOULDER

NOTES:

LEAD TIME: 8 - 10 WEEKS INSTALL PER DETAIL F, LCD.7 PRODUCT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

NOT FOR

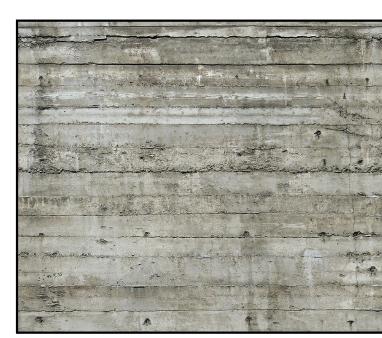


PRODUCT:
POUR-IN-PLACE BOARD FORM PLANTER

COLOR / FINISH: NATURAL CONCRETE **BOARDFORM** 

- 4" WIDTH BOARDS POWER WASH BOARDS TO
- **EXPOSE GRAIN** ARRANGE IN RANDOM
- MOCK UP FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO CONSTRUCTION

## CONCRETE WALL FINISH at



PRODUCT:
POUR-IN-PLACE BOARD FORM

COLOR / FINISH: NATURAL CONCRETE

- 4" WIDTH BOARDS POWER WASH BOARDS TO
- ARRANGE IN RANDOM
- CONTRACTOR TO PROVIDE MOCK UP FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO CONSTRUCTION

## RETAINING WALL FINISH at BASKETBALL COURT



PRODUCT:
NATURAL STONE VENEER

MANUFACTURER: KO NATURAL STONE PH: (800) 898 - 6452 COLOR / FINISH: SIGNATURE COLLECTION SADDLEWOOD

COMMENTS / NOTES:

• LEAD TIME: 6-8 WEEKS MANUFACTURER RECOMMENDATIONS

(E) ENTRY WALL FINISH



ZELLIGE SUBWAY TILE 2" x 6" x 3/4"

MANUFACTURER: CLE TILE CONTACT: JON SAFER PH: 415.785.1015 COLOR / FINISH: WEATHERED WHITE GROUT: #642 ASH by CUSTOM BUILDING PRODUCTS

COMMENTS / NOTES:

• LEAD TIME: 6-8 WEEKS INSTALL per MANUFACTURER
 RECOMMENDATION

(F) TILE CLADDING at BBQ

Revisions:

03/15/21 100% DESIGN DEVELOPMENT

LANDSCAPE ARCHITECTURE 507 30th Street Newport Beach, CA 92663 949.675.9964

mjs-la.com

CONSTRUCTION

Project:

ACME FAMILY **APARTMENTS** 

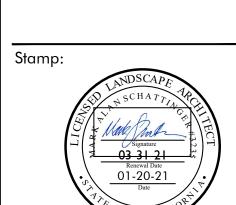
1905 &1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

Client:

MILESTONE HOUSING GROUP

481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030

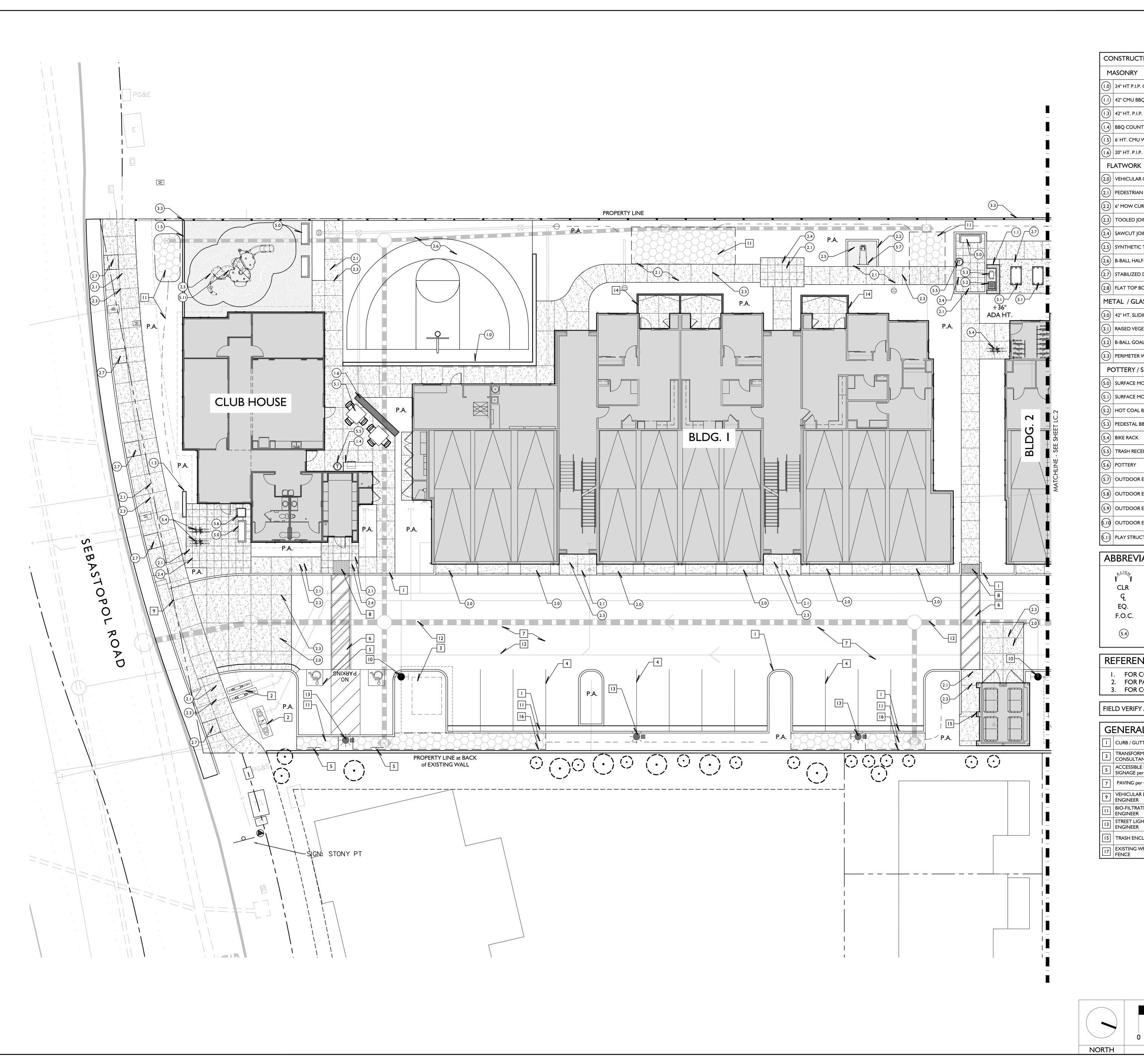


Drawn By: NL Checked By: MS

Plan Date: 06.02.2021

MATERIALS BOARD

Sheet No.:



M	ASONRY		RMIT F	E/C	DETA SHE	
(1.0)	24" HT P.I.P. CONCRETE WALL	A/S *	G/C	E/C	G, LC	
$\frac{\bigcirc}{(1.1)}$	42" CMU BBQ. ENCLOSURE	'*			B, LC	
$\frac{\bigcirc}{(1.3)}$	42" HT. P.I.P. SIGN WALL WITH PIN MOUNT LETTERS				C, LC	
$\frac{\bigcirc}{(1.4)}$	BBQ COUNTER at CLUBHOUSE				A, LC	
$\frac{\bigcirc}{(1.5)}$	6' HT. CMU WALL				D, LO	
(1.6)	20" HT. P.I.P. BACKLESS BENCH WITH WOOD TOP				F, LC	
FL	ATWORK				DETA SHE	
2.0	VEHICULAR CONCRETE				D, LC	
(2.I)	PEDESTRIAN CONCRETE				A, LC	
2.2	6" MOW CURB				E, LC	
2.3	TOOLED JOINT				C, LC	
2.4	SAWCUT JOINT				B, LC	
2.5	SYNTHETIC TURF SURFACING AT TOT LOT and ACTIVE RE	C. AREAS	5		F, LC	
2.6	B-BALL HALF-COURT, POST TENSIONED CONCRETE				B/I LCI	
2.7)	STABILIZED DECOMPOSED GRANITE				G, LC	
2.8	FLAT TOP BOULDER				F, LC	
ME	TAL / GLASS / WOOD	A/S	S PERI REQ	MIT	DETA SHE	
3.0	42" HT. SLIDING VEHICULAR GATE				C, L	
(3.I)	RAISED VEGETABLE BED				A, LC	
3.2	B-BALL GOAL				A, LC	
3.3	PERIMETER WOOD FENCE				E, LC	
PC	OTTERY / SITE FURNISHINGS				DETA SHE	
(5.0)	SURFACE MOUNTED METAL BENCH				B, LC	
(5.I)	SURFACE MOUNTED DINING TABLE				F, LC	
(5.2)	HOT COAL BIN				E, LC	
(5.3)	PEDESTAL BBQ				A, LC	
(5.4)	BIKE RACK				C, LC	
(5.5)	TRASH RECEPTACLE				D, LO	
(5.6)	POTTERY				E, LC	
(5.7)	OUTDOOR EXERCISE EQUIPMENT - TYPE I				B, LC	
(5.8)	OUTDOOR EXERCISE EQUIPMENT - TYPE 2					
(5.9)	OUTDOOR EXERCISE EQUIPMENT - TYPE 3					
5.10	OUTDOOR EXERCISE EQUIPMENT - TYPE 4					
(5.11)	PLAY STRUCTURE				A, LC	

#### ABBREVIATION LEGEND:

ALIGA	ALIGN	F.O.W.	FACE OF WALL
CLR	CLEAR	MIN.	MINIMUM
G G	CENTERLINE	MAX.	MAXIMUM
_	EOUAL	P.A.	PLANTER AREA
EQ. F.O.C.		R=	RADIUS EQUAL
F.O.C.	FACE OF CURB	TYP.	TYPICAL
(5.4)	CONSTRUCTION CALLOUT	•	POINT OF

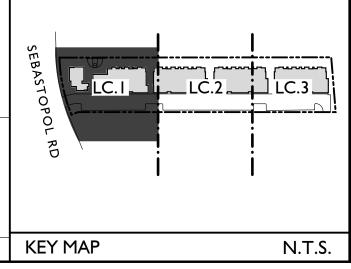
### REFERENCE NOTES:

FOR CONSTRUCTION NOTES SEE SHEET LC.A
 FOR PAVING SCHEDULE SEE SHEET LC.A
 FOR CONSTRUCTION SPECIFICATIONS SEE SHEET LC.10

#### FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION

GENERAL SITE IMPROVEMENTS								
	CURB / GUTTER per CIVIL ENGINEER	2	ABOVE GROUND UTILITY TO BE SCREENED					
3	TRANSFORMERS per DRY UTILITY CONSULTANT	4	PARKING STALL per CIVIL ENGINEER					
5	ACCESSIBLE PARKING STALL and SIGNAGE per CIVIL ENGINEER	6	CROSSWALK per CIVIL ENGINEER					
7	PAVING per CIVIL ENGINEER	8	CONCRETE RAMP per CIVIL ENGINEER					
9	VEHICULAR DRIVEWAY per CIVIL ENGINEER	10	FIRE HYDRANT per CIVIL ENGINEER					
Ш	BIO-FILTRATION/SWALE per CIVIL ENGINEER	12	UNDERGROUND UTILITY LINE per OTHERS					
13	STREET LIGHT per ELECTRICAL ENGINEER	14	PATIO WALL per ARCHITECT					
15	TRASH ENCLOSURE per ARCHITECT	16	EXISTING 8" CMU PERIMETER WALL					
17	EXISTING WROUGHT IRON PERIMETER							

SCALE: I" = 10'



Issued for:

03/15/21 100% DESIGN DEVELOPMENT

L A N D S C A P E ARCHITECTURE

507 30th StreetNewport Beach, CA 92663949.675.9964

NOT FOR CONSTRUCTION

Proiect:

mjs-la.com

# ACME FAMILY APARTMENTS

SEBASTOPOL ROAD SANTA ROSA, CA 95407

1905 &1885

APN: 125-071-016,015

Client:

## MILESTONE HOUSING GROUP

481 N. SANTA CRUZ AVENUE LOS GATOS, CA 95030

NDSCAPE

SCHATTIA

Signature

O3-31-21

Renewal Date

01-20-21

Date

Job No: 
Drawn By: NL

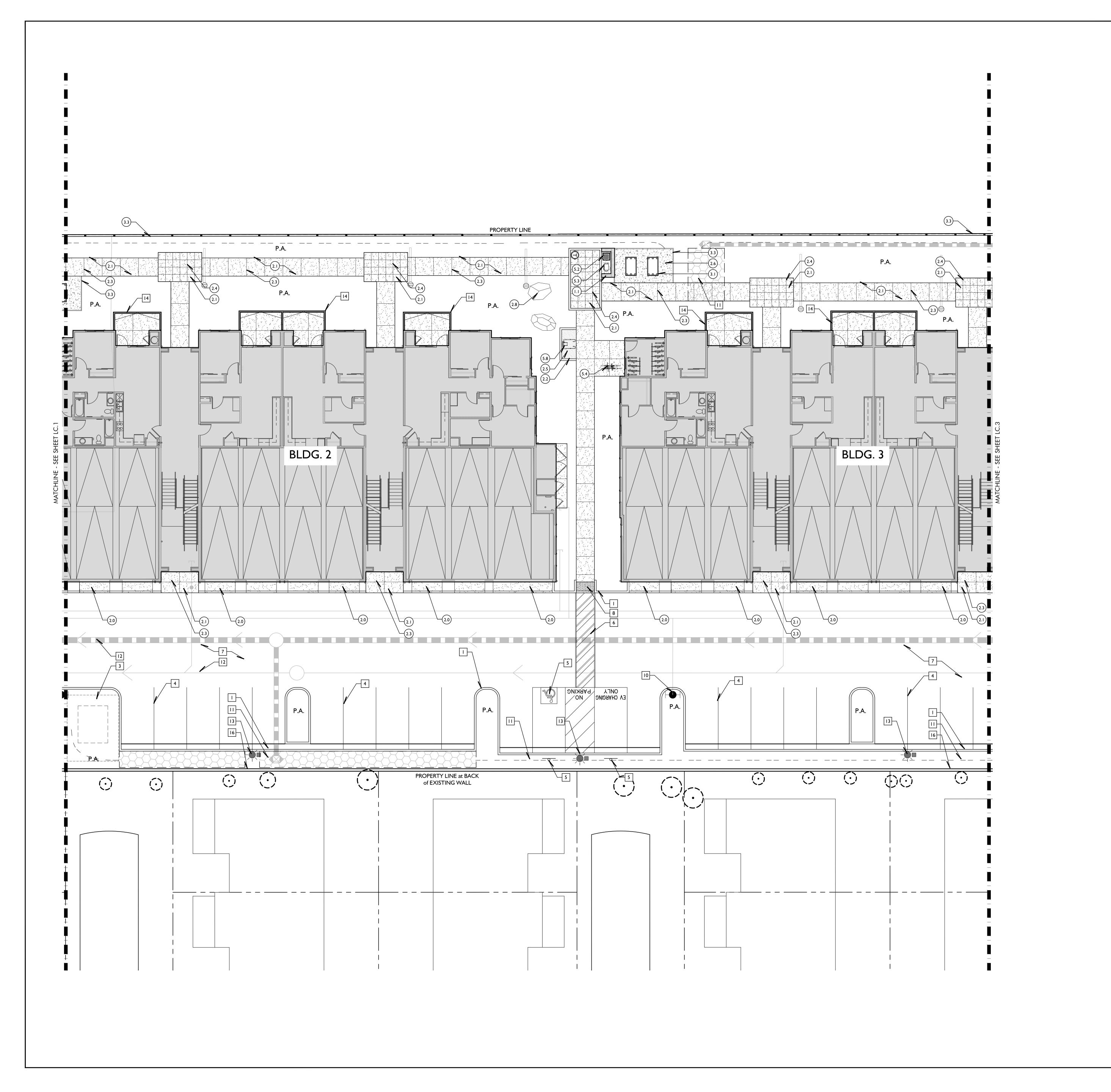
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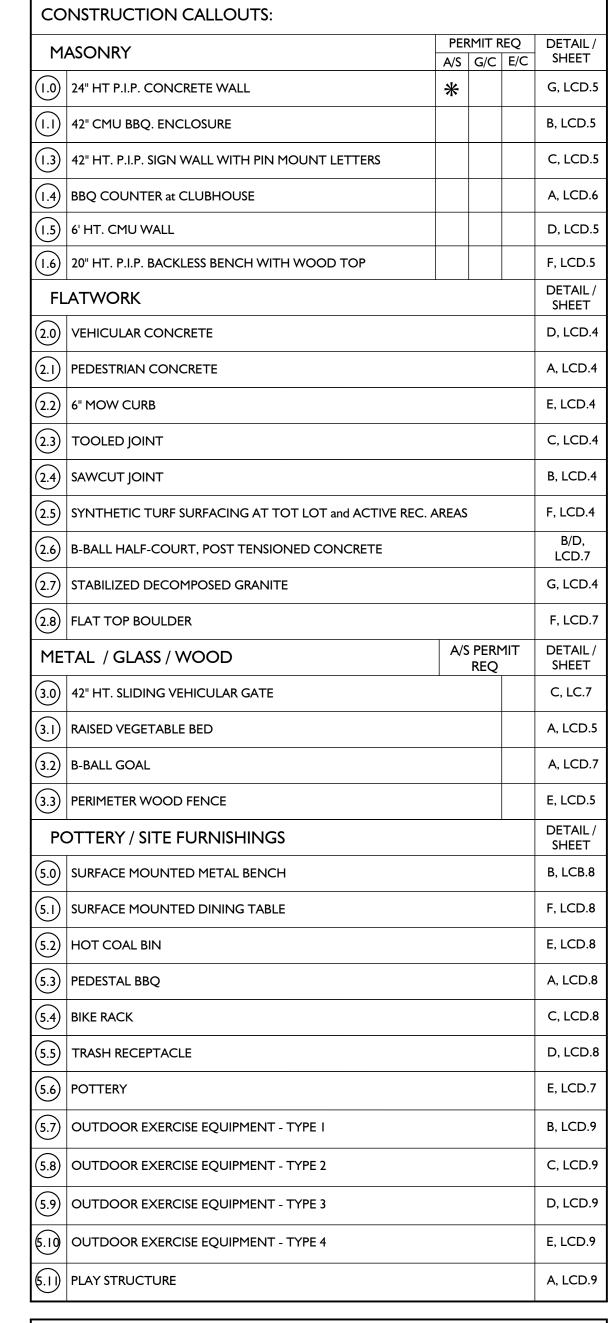
Plan Date: 06.02.2021

Scale: See Sheet
Title:

CONSTRUCTION PLAN

heet No.:





#### ABBREVIATION LEGEND:

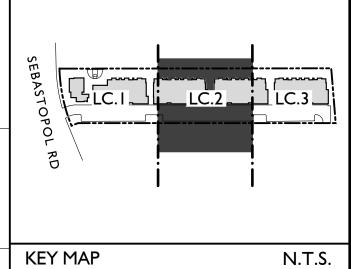
		- <del>-</del>	
CLR Q EQ. F.O.C.	ALIGN  CLEAR  CENTERLINE  EQUAL  FACE OF CURB  CONSTRUCTION	F.O.W. MIN. MAX. P.A. R= TYP.	FACE OF WALL MINIMUM MAXIMUM PLANTER AREA RADIUS EQUAL TYPICAL
(5.4)	CALLOUT		POINT OF BEGINNING

#### REFERENCE NOTES:

I. FOR CONSTRUCTION NOTES SEE SHEET LC.A 2. FOR PAVING SCHEDULE SEE SHEET LC.A 3. FOR CONSTRUCTION SPECIFICATIONS SEE SHEET LC.10

#### FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION

G	GENERAL SITE IMPROVEMENTS							
	CURB / GUTTER per CIVIL ENGINEER	2	ABOVE GROUND UTILITY TO BE SCREENED					
3	TRANSFORMERS per DRY UTILITY CONSULTANT	4	PARKING STALL per CIVIL ENGINEER					
5	ACCESSIBLE PARKING STALL and SIGNAGE per CIVIL ENGINEER	6	CROSSWALK per CIVIL ENGINEER					
7	PAVING per CIVIL ENGINEER	8	CONCRETE RAMP per CIVIL ENGINEER					
9	VEHICULAR DRIVEWAY per CIVIL ENGINEER	10	FIRE HYDRANT per CIVIL ENGINEER					
П	BIO-FILTRATION/SWALE per CIVIL ENGINEER	12	UNDERGROUND UTILITY LINE per OTHERS					
13	STREET LIGHT per ELECTRICAL ENGINEER	[14]	PATIO WALL per ARCHITECT					
15	TRASH ENCLOSURE per ARCHITECT	16	EXISTING 8" CMU PERIMETER WALL					
17	EXISTING WROUGHT IRON PERIMETER FENCE							



Issue	d for	:				
03/1	5/21	100%	DESIC	€N DI	EVELC	PMENT
Revis	ions:					
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ARCHITECTURE

507 30th Street Newport Beach, CA 92663 <del>3</del> 949.675.9964 📵 mjs-la.com

NOT FOR

CONSTRUCTION

Project:

# **APARTMENTS**

SEBASTOPOL ROAD SANTA ROSA, CA 95407

1905 &1885

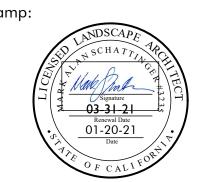
APN: 125-071-016,015

Client:

## MILESTONE HOUSING GROUP

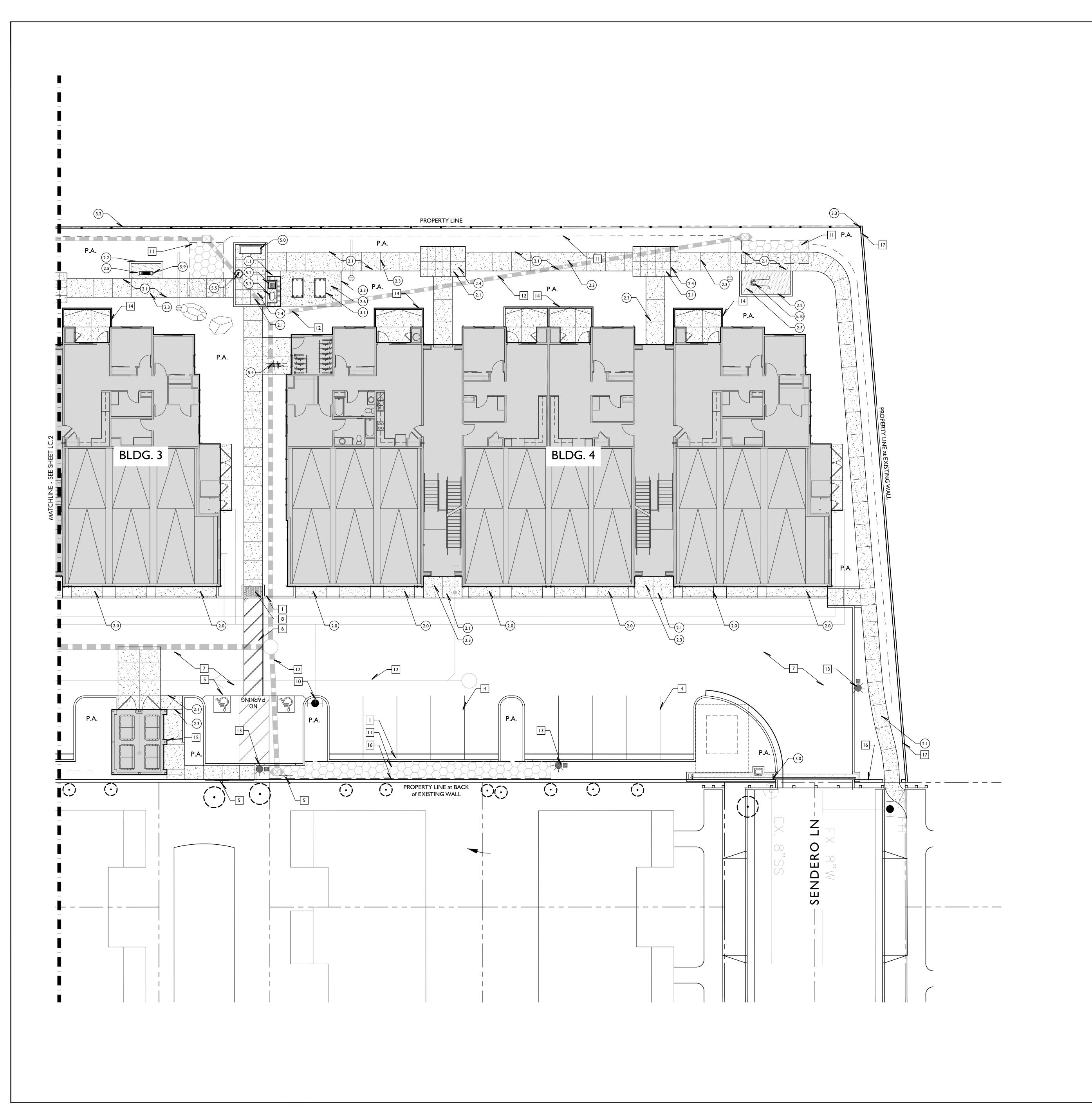
481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030

Stamp:



Job No: Drawn By: NL Checked By: MS Plan Date: 06.02.2021 Scale: See Sheet

CONSTRUCTION PLAN



M	ASONRY	PEI A/S	RMIT F		DETAIL / SHEET
1.0	24" HT P.I.P. CONCRETE WALL	*	0,0	_, _	G, LCD.5
1.1	42" CMU BBQ. ENCLOSURE				B, LCD.5
1.3	42" HT. P.I.P. SIGN WALL WITH PIN MOUNT LETTERS				C, LCD.5
1.4	BBQ COUNTER at CLUBHOUSE				A, LCD.6
1.5	6' HT. CMU WALL				D, LCD.5
1.6	20" HT. P.I.P. BACKLESS BENCH WITH WOOD TOP				F, LCD.5
FL	ATWORK				DETAIL / SHEET
2.0	VEHICULAR CONCRETE				D, LCD.4
2.1	PEDESTRIAN CONCRETE				A, LCD.4
2.2	6" MOW CURB				E, LCD.4
2.3	TOOLED JOINT				C, LCD.4
2.4	SAWCUT JOINT				B, LCD.4
2.5	SYNTHETIC TURF SURFACING AT TOT LOT and ACTIVE REC	C. AREAS	}		F, LCD.4
2.6	B-BALL HALF-COURT, POST TENSIONED CONCRETE				B/D, LCD.7
2.7)	STABILIZED DECOMPOSED GRANITE				G, LCD.4
2.8	FLAT TOP BOULDER				F, LCD.7
ME	TAL / GLASS / WOOD	A/S	PERI REQ		DETAIL / SHEET
3.0	42" HT. SLIDING VEHICULAR GATE				C, LC.7
3. I	RAISED VEGETABLE BED				A, LCD.5
3.2	B-BALL GOAL				A, LCD.7
3.3	PERIMETER WOOD FENCE				E, LCD.5
PC	OTTERY / SITE FURNISHINGS				DETAIL / SHEET
5.0	SURFACE MOUNTED METAL BENCH				B, LCB.8
(5.I)	SURFACE MOUNTED DINING TABLE				F, LCD.8
5.2	HOT COAL BIN				E, LCD.8
5.3	PEDESTAL BBQ				A, LCD.8
5.4	BIKE RACK				C, LCD.8
5.5	TRASH RECEPTACLE				D, LCD.8
5.6	POTTERY				
5.7	OUTDOOR EXERCISE EQUIPMENT - TYPE I				
5.8	OUTDOOR EXERCISE EQUIPMENT - TYPE 2				
(5.9)	OUTDOOR EXERCISE EQUIPMENT - TYPE 3				
5.10					
יטו.ק	t territorial de la companya del companya del companya de la comp				E, LCD.9

ABBREVIATION LEGEND:								
CLR Q EQ. F.O.C.	ALIGN CLEAR CENTERLINE EQUAL FACE OF CURB CONSTRUCTION CALLOUT	F.O.W. MIN. MAX. P.A. R= TYP.	FACE OF WALL MINIMUM MAXIMUM PLANTER AREA RADIUS EQUAL TYPICAL POINT OF BEGINNING					

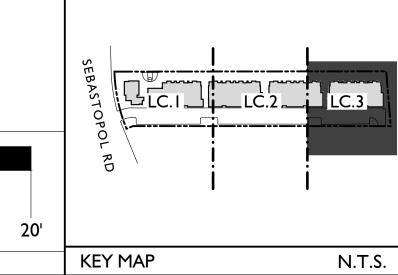
#### REFERENCE NOTES:

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 FOR PAVING SCHEDULE SEE SHEET LC.A
 FOR CONSTRUCTION SPECIFICATIONS SEE SHEET LC.10

#### FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION

GENERAL SITE IMPROVEMENTS				
I CURB / GUTTER per CIVIL ENGINEER	ABOVE GROUND UTILITY TO BE SCREENED			
TRANSFORMERS per DRY UTILITY CONSULTANT	4 PARKING STALL per CIVIL ENGINEER			
5 ACCESSIBLE PARKING STALL and SIGNAGE per CIVIL ENGINEER	6 CROSSWALK per CIVIL ENGINEER			
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BIO-FILTRATION/SWALE per CIVIL ENGINEER	UNDERGROUND UTILITY LINE per OTHERS			
STREET LIGHT per ELECTRICAL ENGINEER	14 PATIO WALL per ARCHITECT			
15 TRASH ENCLOSURE per ARCHITECT	16 EXISTING 8" CMU PERIMETER WALL			
EXISTING WROUGHT IRON PERIMETER FENCE				

SCALE: I" = 10'



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	03/15/21	100% DESIGN DE
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	Revisions:	T
	L A I A R C © 507 New © 949	N D S C A HITECT 30th Street port Beach, CA .675.9964 la.com
		T FOR NSTRUCTION

APARTMENTS

SEBASTOPOL ROAD

APN: 125-071-016,015

HOUSING GROUP

481 N. SANTA CRUZ

LOS GATOS, CA

SANTA ROSA, CA

MILESTONE

AVENUE

95030

Job No: -

Drawn By: NL

Checked By: MS

Scale: See Sheet

Plan Date: 06.02.2021

CONSTRUCTION PLAN

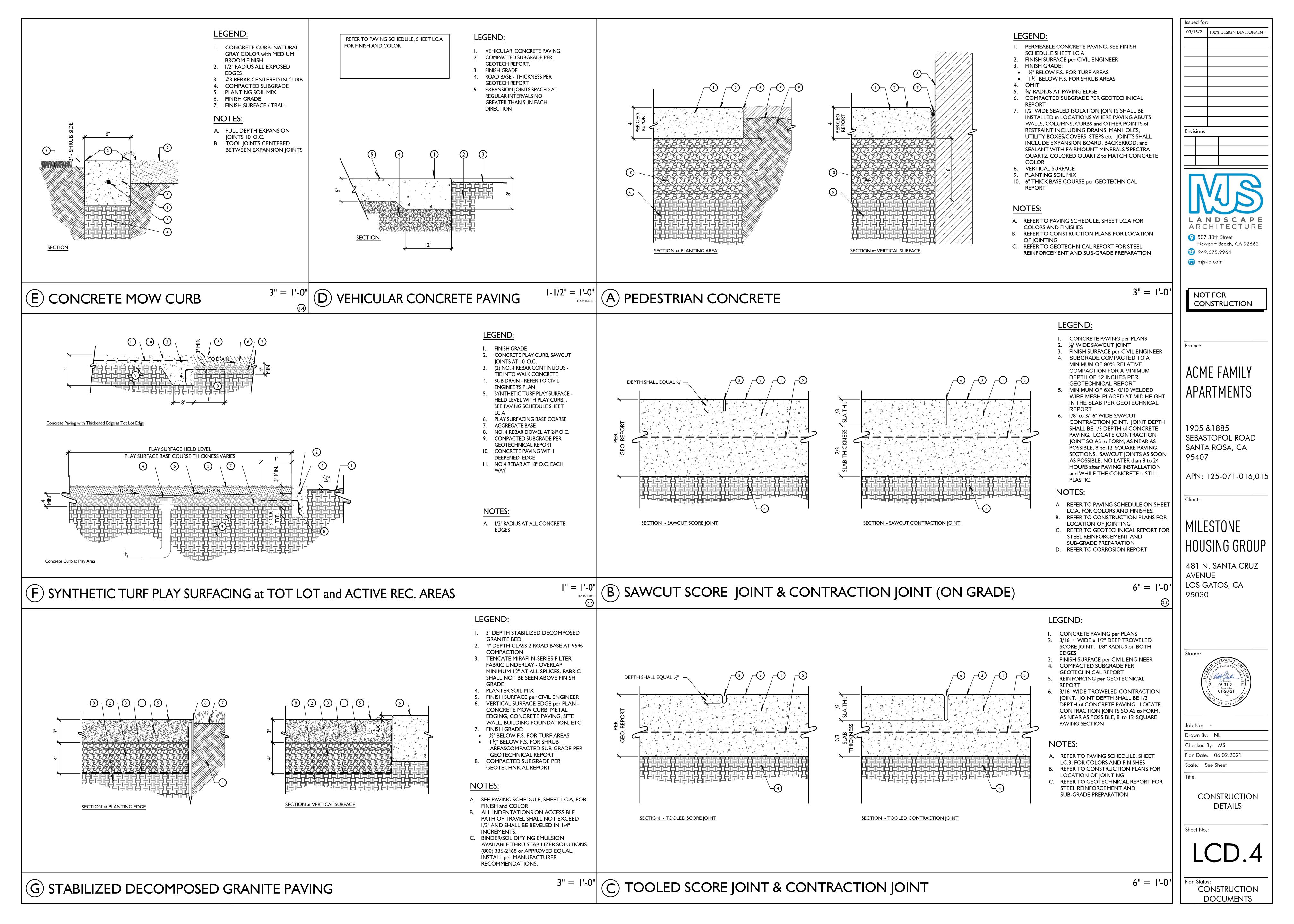
Plan Status:
CONSTRUCTION

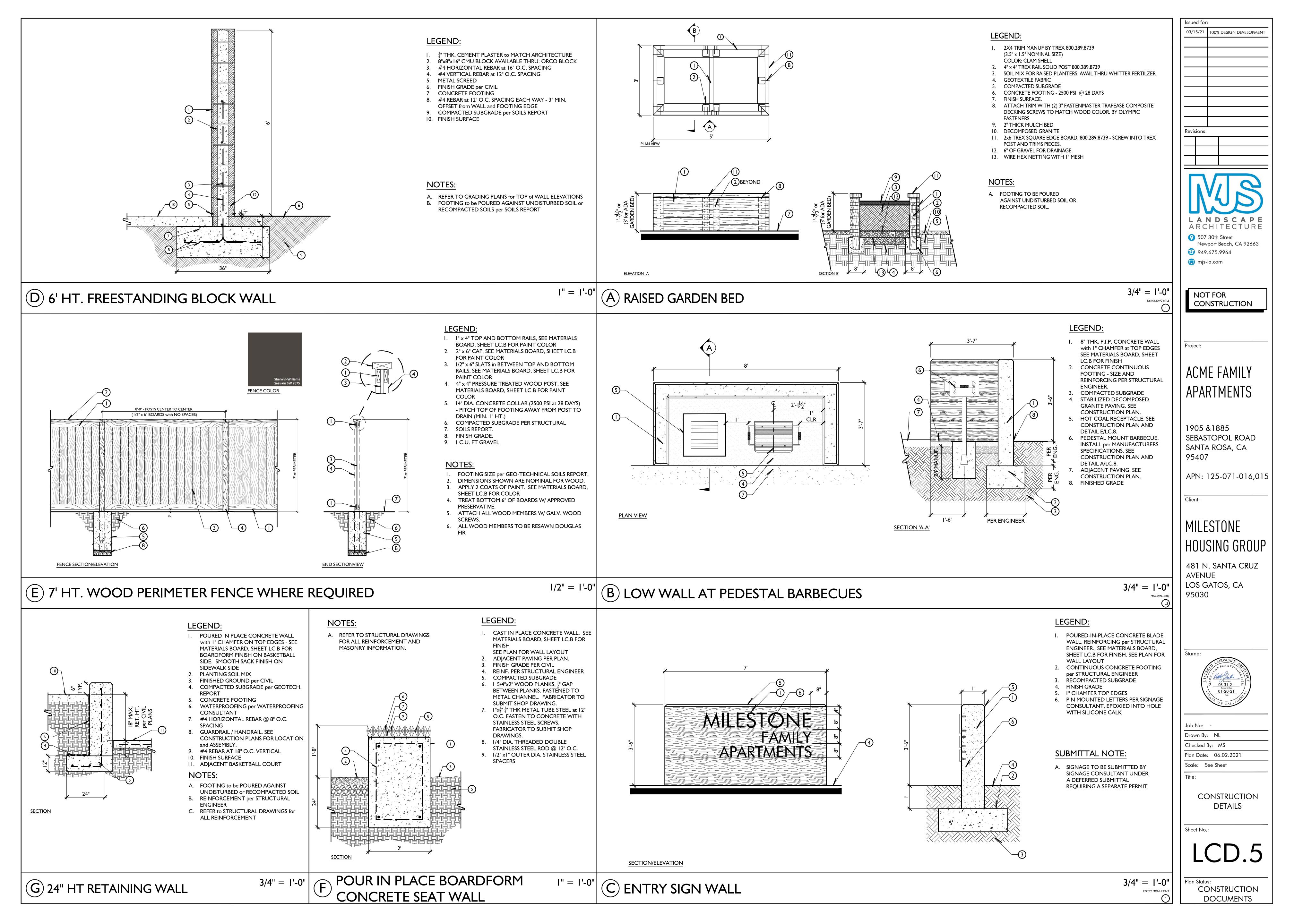
DOCUMENTS

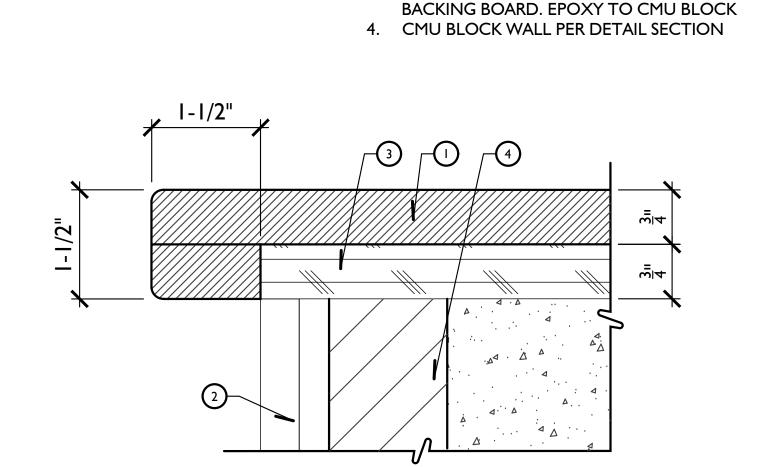
1905 &1885

95407

Client:







LEGEND:

**ADHESIVE** 

1.  $\frac{3}{4}$  THK. ENGINEERED STONE COUNTERTOP. SEE

1/8" EASED EDGE. SECURE TO PLYWOOD SUBSTRATE WITH NON-STAINING SLICONE

2. TILE CLADDING. SEE MATERIAL BOARD SHEET

3. 3/4" THICK PRESSURE TREATED PLYWOOD

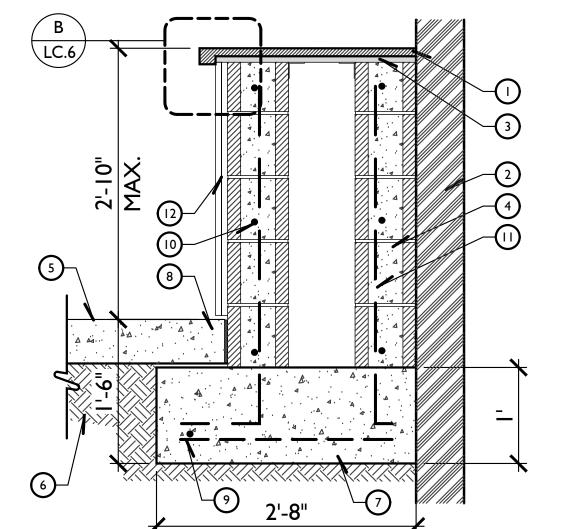
MATERIAL BOARD SHEET LC.B. BULLNOSE WITH

N.T.S.

## B COUNTER TOP EDGE **ENLARGEMENT**

#### **LEGEND:**

- I.  $\frac{3}{4}$  THICK COUNTERTOP ENGINEERED SURFACE. SEE MATERIAL BOARD SHEET LC.B for
- PRODUCT INFO ADJACENT BUILDING WALL PER ARCHITECTURE
- 3. 3/4" THICK PRESSURE TREATED PLYWOOD BACKING BOARD. EPOXY TO CMU BLOCK. 4. 8" x 8" x 16" C.M.U. BLOCK.REINFORCEMENT PER STRUCTURAL ENGINEER.
- 5. FINISH SURFACE / FINISH GRADE
- 6. RECOMPACTED SUBGRADE PER GEOTECH REPORT
- 7. CONCRETE FOOTING PER STRUCTURAL ENGINEER. 8. ADJACENT PAVING. SEE CONSTRUCTION PLAN
- 9. #4 REBAR REINFORCEMENT EACH WAY
- 10. #4 HORZ. REBAR REINFORCEMENT at 24" O.C. SPACING (MIN. 3)
- 11. #4 VERT. REBAR REINFORCEMENT at 24" O.C. SPACING. HOOK to CONCRETE FOOTING 12. TILE CLADDING. SEE MATERIAL BOARD DETAIL SHEET LC.B



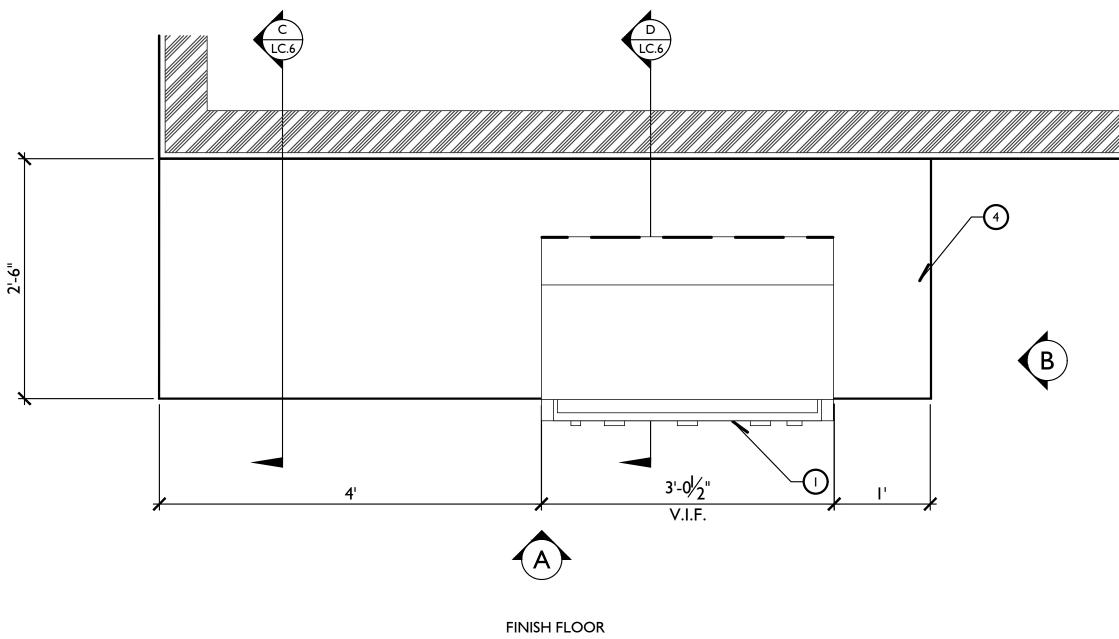
### TYPICAL COUNTERTOP -SECTION



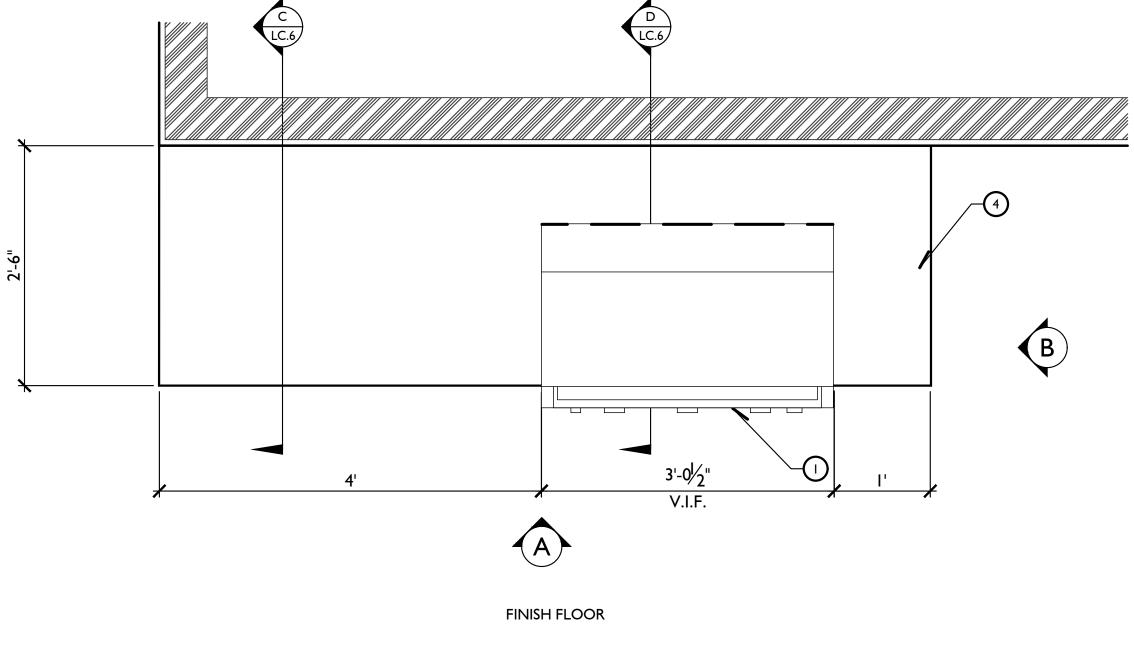
BBQ GAS GRILL by AEI CORPORATION, INC. MODEL: \$36 CONTRACTOR TO VERIFY REQUIRED CUTOUT PRIOR TO CONSTRUCTION. INSTALL PER MANUFACTURER'S

I'' = I'-0''

- SPECIFICATIONS. 3/4" THICK COUNTERTOP ENGINEERED SURFACE. SEE MATERIAL BOARD SHEET
- LC.B FOR PRODUCT INFO 3. ADJACENT BUILDING WALL PER
- ARCHITECTURE 4. 3/4" THICK PRESSURE TREATED PLYWOOD BACKING BOARD. EPOXY
- TO CMU BLOCK. 8" x 8" x 16" C.M.U.
- BLOCK.REINFORCEMENT PER STRUCTURAL ENGINEER.
- **ELECTRICAL CONDUIT PER OTHERS** GAS SERVICE LINE PER OTHERS
- EMERGENCY GAS SHUT OFF STAINLESS STEEL SINGLE ACCESS
- 10. FINISH SURFACE / FINISH GRADE
- II. RECOMPACTED SUBGRADE PER
- 12. CONCRETE FOOTING PER STRUCTURAL ENGINEER.
- 13. ADJACENT PAVING. SEE CONSTRUCTION PLAN
- 14. #4 REBAR REINFORCEMENT EACH WAY 15. #4 HORZ. REBAR REINFORCEMENT at
- 24" O.C. SPACING (MIN. 3) 16. #4 VERT. REBAR RÈINFORCEMENT at 24"
- O.C. SPACING. HOOK to CONCRETE
- 17. TILE CLADDING. SEE MATERIAL BOARD



PLAN VIEW



 ONE HOUR GAS FLOW TIMER built into control panel Laser etched control panel for permanent Instructions 720 square Inch 304 Stainless cooking surface Side mounted heat indicator 260 square Inch Warming Rack available as option FULL 1 YEAR PARTS REPLACEMENT WARRANTY Dual walled hood Electronic ignition (AA battery powered) 75,000 btu total input (3 stainless 25,000 btu burners) Ceramic briquettes Cutout Dimensions for Masonry Island S36C Pacifica Grill Head 36½" width 23" depth 9½" height 38" width Grill head must be installed in a non combustible masonry/metal enclosure ORDERING & LEAD TIME: Call AEI Corporation - (949) 474-3070 M-F 7 a.m. - 4 p.m. PST AEI Corporation
2641 Du Bridge Ave., Irvin
949-474-3070 | www.ae 2641 Du Bridge Ave., Irvine CA 92606

BBQ CUT SHEET

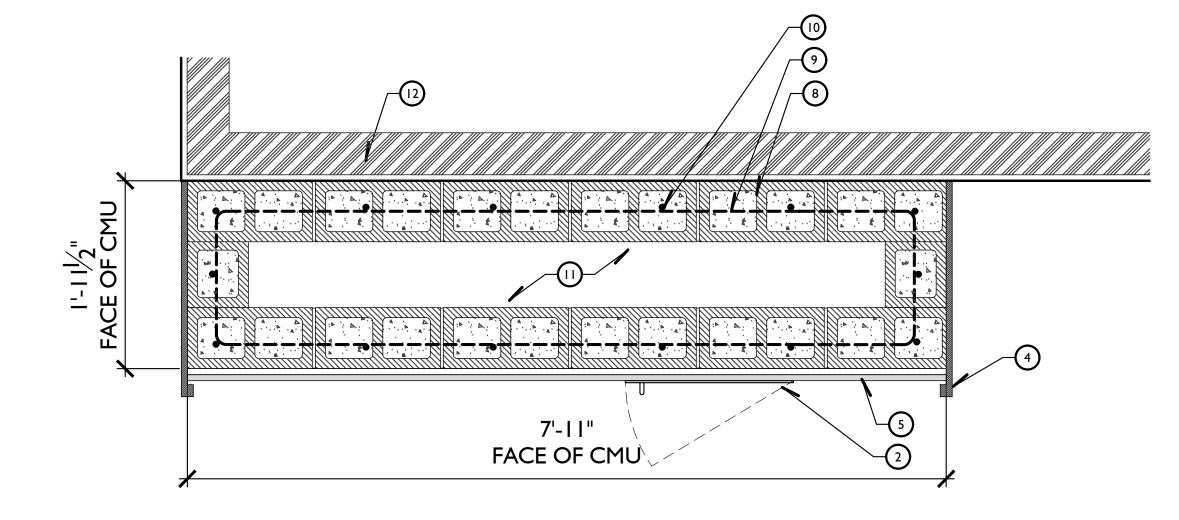
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#### LEGEND:

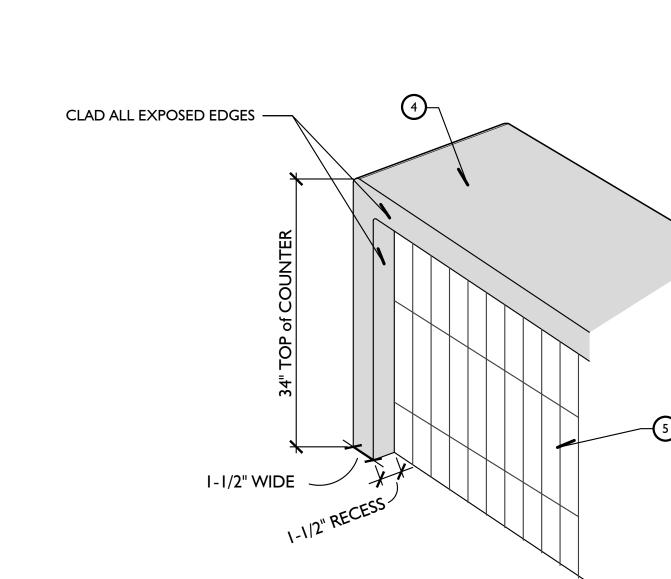
- 1. 26" PGS LEGACY GAS GRILL by AEI CORPORATION. MODEL: \$36T. SEE CUT SHEET FOR CUTOUT DIMENSIONS. CONTRACTOR TO VERIFY REQUIRED CUTOUT PRIOR TO CONSTRUCTION. INSTALL PER MANUFACTURER'S SPECIFICATIONS. CONTACT
- INFORMATION FOR AEI: (949) 474-3070. STAINLESS STEEL SINGLE ACCESS LOUVERED DOORS. MANUF: FIRE MAGIC / MODEL: 43914-SR /
- SIZE: 14"x20" 3. G.F.C.I. WEATHERPROOF OUTLET AND COVER, TYP.
- PER ELECTRICAL ENGINEER 4.  $\frac{3}{4}$  THK. ENGINEERED STONE COUNTERTOP. SEE
- MATERIAL BOARD SHEET LC.B FOR PRODUCT INFO. 5. TILE CLADDING. SEE MATERIAL BOARD SHEET LC.B FOR PRODUCT INFO.
- 6. STAINLESS STEEL LOUVERED VENT PANEL -AVAILABLE THRU FIRE MAGIC (877)474-5578 / PRODUCT - 4" x 13" STAINLESS STEEL VENTING PANEL / MODEL #5510-01
- 7. FINISH GRADE/FINISH FLOOR PER PLANS 8. 8"x8"x16" CMU BLOCK REINFORCEMENT per
- STRUCTURAL ENGINEER 9. #4 REBAR HORIZONTAL at 12" O.C.
- 10. #4 REBAR VERTICAL at 12" O.C. with STANDARD HOOK INTO FOOTING
- VOID SPACE
- 12. BUILDING WALL PER ARCHITECT

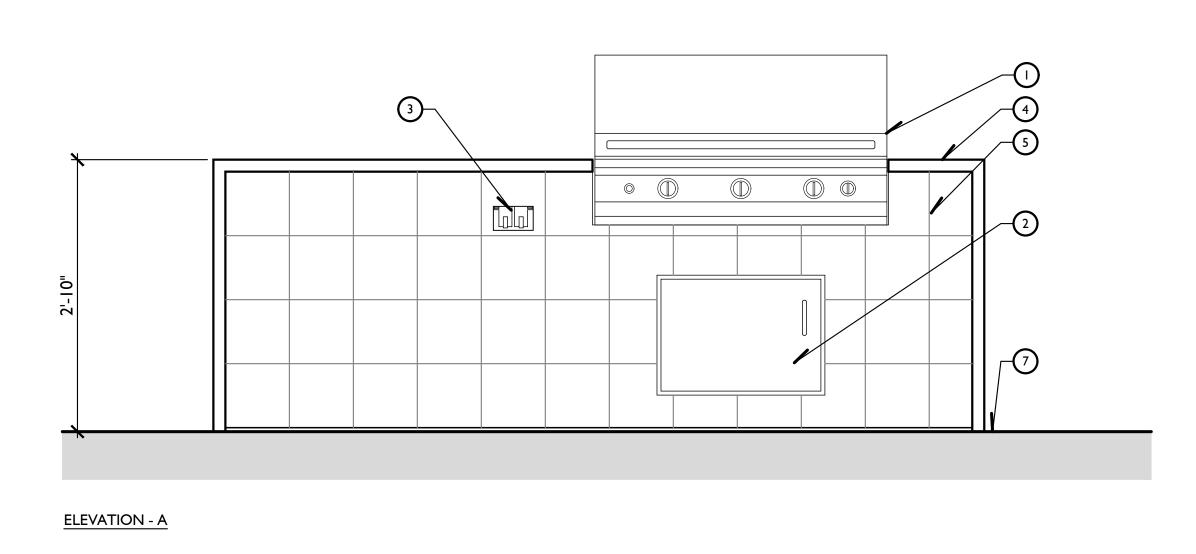
#### **NOTES:**

- A. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR
- ALL BUILT-IN BBQ FABRICATION TO THE LANDSCAPE ARCHITECT FOR APPROVAL
- B. GROUT SOLID CMU BLOCK
- C. REFER TO STRUCTURAL DETAILS FOR REINFORCEMENT



SECTION - D





ELEVATION - B

**ACME FAMILY APARTMENTS** 

03/15/21 100% DESIGN DEVELOPMENT

LANDSCAPE

ARCHITECTURE

Newport Beach, CA 92663

507 30th Street

<del>3</del> 949.675.9964

NOT FOR

Project:

CONSTRUCTION

mjs-la.com

Revisions:

1905 & 1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

Client:

MILESTONE HOUSING GROUP

481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030

Job No: -Drawn By: NL

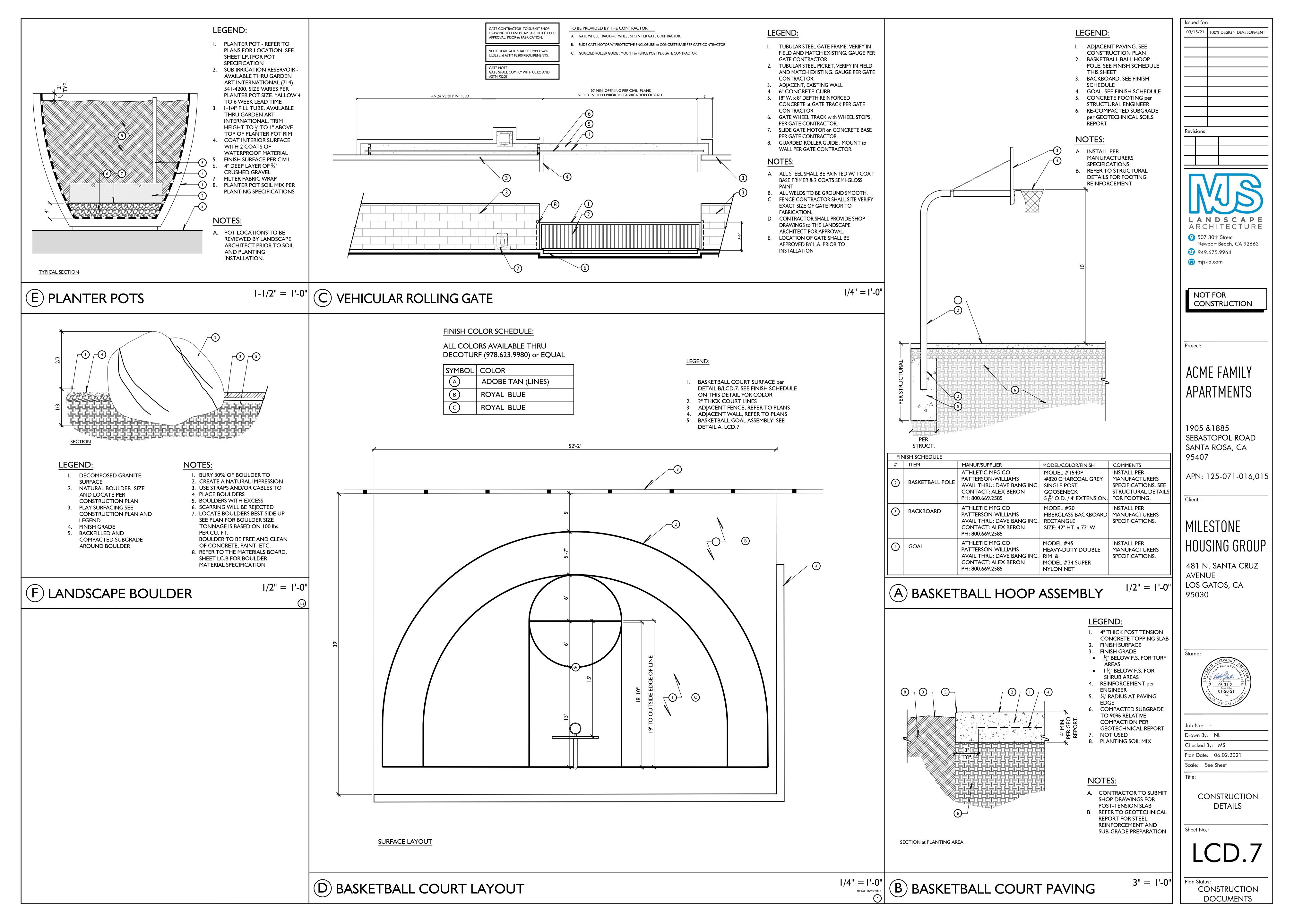
Checked By: MS Plan Date: 06.02.2021

Scale: See Sheet

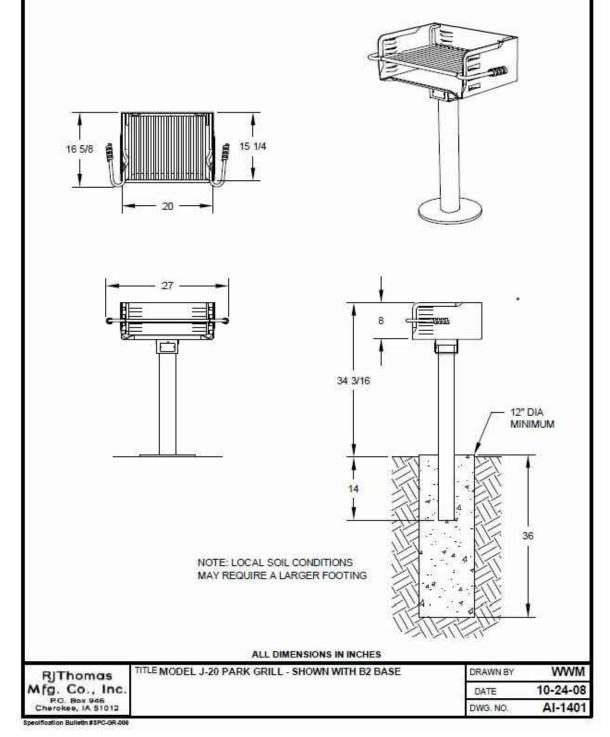
CONSTRUCTION **DETAILS** 

CONSTRUCTION DOCUMENTS

I" = I'-0" (A) BBQ GRILL COUNTERTOP at CLUBHOUSE









SUPPLIER/MANUFACTURER:	PILOTROCK JR THOMAS MFG CO. INC.
MODEL:	J-20 SERIES CHARCOAL GRILL
COLOR/FINISH:	HIGH HEAT BLACK ENAMEL
NOTES:	INSTALL per MANUF. RECOMMENDATIONS ALLOW 6-8WEEK LEAD TIME
QTY:	3

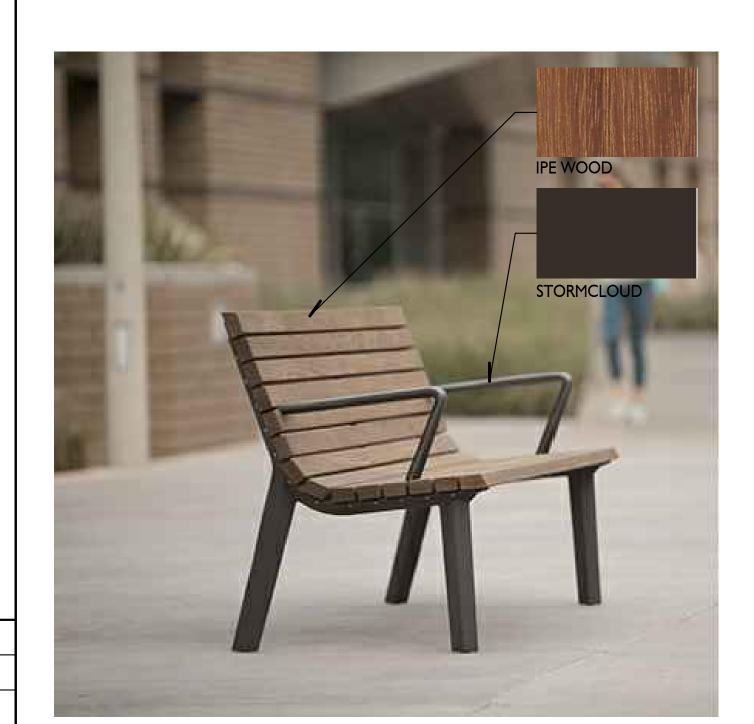
## D TRASH / RECYCLING RECEPTACLE

## N.T.S. A PEDESTAL MOUNTED BBQ

N.T.S.



	SUPPLIER/MANUFACTURER:	PILOTROCK JR THOMAS MFG CO. INC.
	MODEL:	HCB-I HOT COAL BIN
	COLOR/OPTIONS:	HIGH HEAT BLACK ENAMEL
	NOTES:	ALLOW 6-8 WEEK LEAD TIME. INSTALL PER MANUF. REC.
*OR EQUAL - APPROVED BY OWNER	QTY:	3



	Traditional Backed with (2) Arms	26"	72"	33"	139 lbs
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×	

STORMCLOUD

SUPPLIER/MANUFACTURER:	LANDSCAPE FORMS
MODEL:	GENERATION 50 TRADITIONAL BENCH with 2 ANGLED ARMS
COLOR/FINISH:	FRAME : STORMCLOUD POWDERCOATED METAL BENCH : IPE WOOD w/ EXTERIOR FINISH
NOTES:	INSTALL per MANUF. RECOMMENDATIONS ALLOW 8-10 WEEK LEAD TIME
QTY:	5

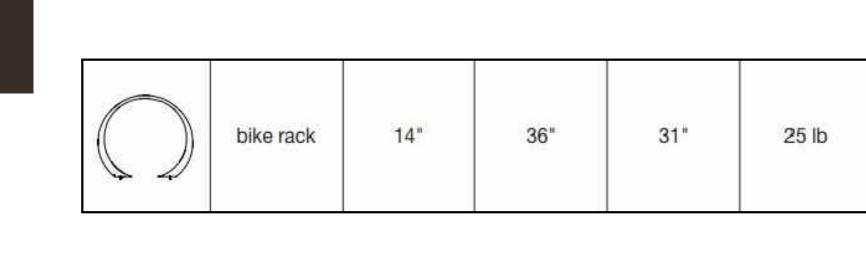
## E HOT COAL BIN

THOMAS STEELE

36" OR 42"

PRODUCT: CFT-SQP-DSK
DESCRIPTION: CAFE TABLE, 36 OR 42 INCH DIAMETER,
DATE: 9-2-15
ENG: SMC
OWNED BY THE STATE OF THE STAT

N.T.S. B BENCH



THOMAS STEELE DIVISION GRABER MANUFACTURING, INC. 1080 UNIEK DRIVE P(800) 448-7931, P(808) 894-7808, (809-804-1081) WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM	THOMAS STEELE DIVISION  GRABER MANUFACTURING, INC. 1080 UNIEX DRIVE  WALNAKEE, WIR 53597 P(800) 448-7931, P(808) 849-1080, F(808) 849-1080, F(808) 849-1080.	
2 3/6" OD TUBING 3/6" STEEL BASE	1º ROUND TUBULAR STEEL  7/8º TUBULAR STEEL  PERFORATED STEEL SEAT  NYLON GLIDE	
	22 3/4" 16 34" 18 34" 18 18 18 18 18 18 18 18 18 18 18 18 18 1	
□ SQUARE STEEL TOP □ SQUARE STAINLESS STEEL TOP  SITE FURNISHING IS POWDER COATED WITH TGIC POLYESTER. SITEL SURPACE PEEP INCLUDES MECHANICAL AND CHAINCAL ETOHNING FOLLOWED WITH A COATING TO IMPROVE ADHESION AND CORROSION RESISTANCE.	PRODUCT: CFC_PMA DESCRIPTION: CHAIR PERFORATED METAL WITH ARMS  DATE: 5-5-13 ENG: SMC  COMPRENTIAL DRAWING AND INFORMATION IS NOT TO BE COPIED OR DISCLOSED  SITE FURNISHING IS POWDER COATED WITH TGIC POLYESTER. TO OTHERS WITHOUT THE CONSENT OF GRABER MANUFACTURING, INC. STEEL SURFACE PREP INCLIDES MICHANICAL AND CHEMICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.  ©2013 GRABER MANUFACTURING, INC. ALL PROPRIETARY RIGHTS RESERVED.	

_		OR EQUAL - APPROVED BY OWNER
	SUPPLIER/MANUFACTURER:	SPRUCE & GANDER (760.566.4603) CONTACT: NIKKI QUINONEZ
	MODEL:	36" SQUARE SOLID CAFE TABLE - DISK BASE & CAFE CHAIR
	COLOR/OPTIONS:	STORM METALLIC
	NOTES:	ALLOW 6 WEEKS LEAD TIME. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	QTY:	2TABLES / 6 CHAIRS

SUPPLIER/MANUFACTURER:	LANDSCAPE FORMS
MODEL:	LOOP BIKE RACK
COLOR/FINISH:	STORMCLOUD POWDERCOATED METAL
NOTES:	INSTALL per MANUF. RECOMMENDATIONS ALLOW 8-10 WEEK LEAD TIME
QTY:	5

(F) TABLE with SEATING

N.T.S. BIKE RACK

N.T.S.

LANDSCAPE ARCHITECTURE

03/15/21 100% DESIGN DEVELOPMENT

507 30th Street Newport Beach, CA 92663 949.675.9964

mjs-la.com

NOT FOR CONSTRUCTION

## ACME FAMILY **APARTMENTS**

1905 &1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

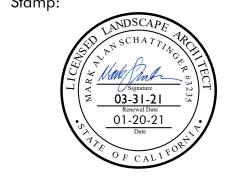
APN: 125-071-016,015

## MILESTONE HOUSING GROUP

481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030

Stamp:

N.T.S.



Drawn By: NL Checked By: MS

Plan Date: 06.02.2021 Scale: See Sheet

CONSTRUCTION DETAILS

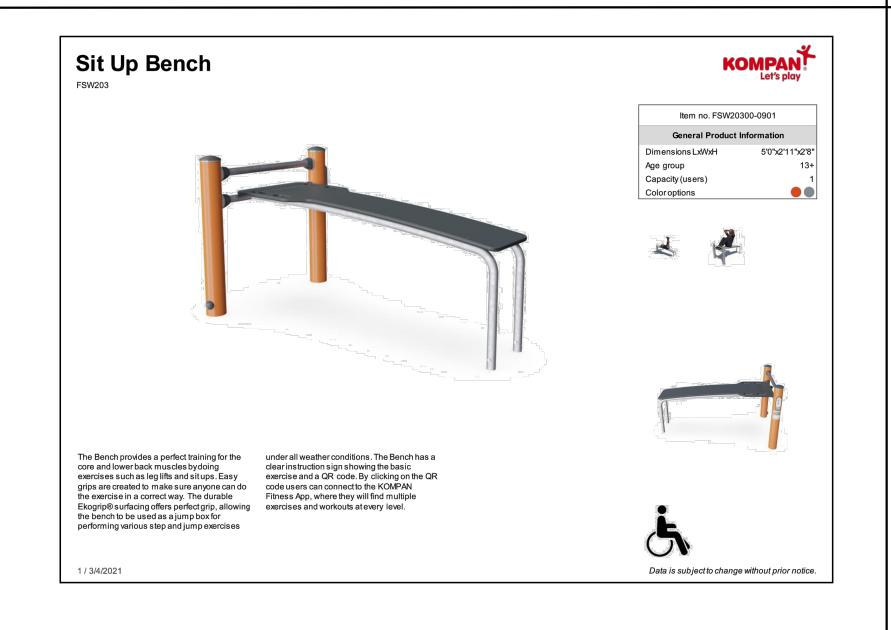


SUPPLIER/MANUFACTURER:	KOMPAN
MODEL:	UPRIGHT ROW AND PRESS DOWN FST-105
COLOR/FINISH:	N/A
NOTES:	INSTALL per MANUF. RECOMMENDATIONS
QTY:	I



SUPPLIER/MANUFACTURER:	KOMPAN
MODEL:	PLAY STRUCTURE PCE-1052
COLOR/FINISH:	N/A
NOTES:	INSTALL per MANUF. RECOMMENDATIONS
QTY:	

D EXERCISE EQUIP - TYP. 3



SUPPLIER/MANUFACTURER:	KOMPAN
MODEL:	SIT UP BENCH FSW-203
COLOR/FINISH:	N/A
NOTES:	INSTALL per MANUF. RECOMMENDATIONS
OTV:	

A PLAY STRUCTURE

N.	T.S.	



	SUPPLIER/MANUFACTURER:	KOMPAN
	MODEL:	SQUAT, SHOULDER PRESS & LAT PULL DOWN FST-103
	COLOR/FINISH:	N/A
	NOTES:	INSTALL per MANUF. RECOMMENDATIONS
	QTY:	1

E EXERCISE EQUIP - TYP. 4

N.T.S. B EXERCISE EQUIP - TYP. I

N.T.S.



SUPPLIER/MANUFACTURER:	KOMPAN
MODEL:	CHEST PRESS AND HORIZONTAL ROW FST-104
COLOR/FINISH:	N/A
NOTES:	INSTALL per MANUF. RECOMMENDATIONS
QTY:	1

© EXERCISE EQUIP - TYP. 2

N.T.S.

Revisions:



507 30th Street
 Newport Beach, CA 92663

 949.675.9964
 mjs-la.com

NOT FOR CONSTRUCTION

Project:

# ACME FAMILY APARTMENTS

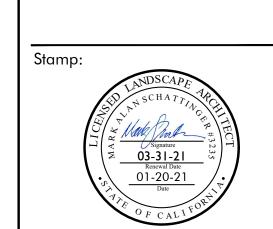
1905 & 1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

Client:

## MILESTONE HOUSING GROUP

481 N. SANTA CRUZ AVENUE LOS GATOS, CA 95030



Job No: 
Drawn By: NL

Checked By: MS

Plan Date: 06.02.2021

Scale: See Sheet

Title:

CONSTRUCTION DETAILS

heet No.:

LCD.9

#### A. GENERAL NOTES

- I. BIDDING: IT SHALL BE THE OWNER'S RESPONSIBILITY IN INVITING AND OBTAINING BIDS, SETTING ITS PROVISIONS AND INSTRUCTIONS TO BIDDERS. SECURING THEIR BONDS AND WORKERS COMPENSATION INSURANCE CERTIFICATES, ETC. TO FULLY ENSURE THE QUALITY AND TIMELY COMPLETION OF THE PROJECT.
- 2. SCOPE OF WORK: CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO FURNISH AND INSTALL ALL ELEMENTS AS SHOWN ON THE DRAWING AND SPECIFIED
- 3. PLAN VERIFICATION: : THE DRAWING AND SPECIFICATIONS REPRESENT THE FINISH CONSTRUCTION PRODUCT. THESE DOCUMENTS MAY CONTAIN ERRORS, OMISSIONS, CONTRADICTIONS, ETC. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS THOROUGHLY AND SHALL NOTIFY THE LANDSCAPE ARCHITECT AND OWNER IMMEDIATELY UPON ANY SUCH DISCREPANCY. GOVERNING CODES SHALL THEN APPLY.
- 4. LICENSE: THE CONTRACTOR SHALL BE A CALIFORNIA LICENSED CONTRACTOR.
- 5. UNIFORM BUILDING CODE: ALL CONSTRUCTION WITHIN THESE DRAWINGS SHALL CONFORM TO THE CURRENT EDITION OF THE UNIFORM BUILDING CODE AND ALL APPLICABLE GOVERNING CODES AND ORDINANCES.
- 6. FIELD VERIFICATION: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. OWNER AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- 7. DIMENSIONS: ALL SCALE DIMENSIONS ARE APPROXIMATE. WRITTEN DIMENSIONS ON DETAILS AND PLANS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 8. METHODS OF CONSTRUCTION: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, SEQUENCES, PROCEDURES AND TECHNIQUES. THE LANDSCAPE ARCHITECTURAL FIRM IS NOT LIABLE FOR CONSTRUCTION METHODS.
- 9. UTILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES, ELECTRICAL CABLES, CONDUITS, AND IRRIGATION LINES PRIOR TO ANY CONSTRUCTION, SO THAT PROPER PRECAUTIONS MAY BE TAKEN NOT TO DAMAGE SUCH IMPROVEMENTS.
- 10. PERMITS AND INSPECTIONS: THE CONTRACTOR SHALL OBTAIN, COORDINATE AND PAY FOR ALL PERMITS, FEES AND AGENCY INSPECTIONS AS REQUIRED.
- 11. SHOP DRAWINGS: SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE CLARIFICATION OF ALL DESIGN CONCEPT DETAILS, IF REQUIRED BY OWNER OR GOVERNING AUTHORITY.
- 12. LIABLE FOR DAMAGE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY ITS OPERATIONS TO UTILITIES, PLANTING, CONSTRUCTION, PERSONS, PROPERTY, ETC. AND SHALL PROVIDE PROTECTIVE MEANS TO GUARD AGAINST DAMAGE.
- 13. LIABLE FOR ENCROACHMENTX: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ENCROACHMENT ONTO ADJACENT PROPERTY, RIGHT-OF-WAYS, EASEMENTS, SETBACKS OR ANY OTHER LEGAL PROPERTY RESTRICTIONS EITHER MARKED OR UNMARKED.
- 14. SITE MAINTENANCE: CONTRACTOR SHALL KEEP THE PROJECT SITE EAN AND FREE FROM RUBBISH AND DEBRIS. ALL DEBRIS SHALL BE REMOVED FROM SITE PER LOCAL CODE AND ORDINANCES.
- 15. SAFETY: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS DURING CONSTRUCTION.
- 16. MATERIALS: ALL MATERIALS AND EQUIPMENT SPECIFIED IN THESE DRAWINGS SHALL BE NEW AND IN PERFECT CONDITION WHERE INSTALLED. CONTRACTOR SHALL ALLOW AT LEAST 6-8 WEEKS FROM TIME OF PLACEMENT OF ORDER UNTIL DELIVERY ON ANY SPECIFIED ITEM UNLESS OTHERWISE NOTED ON PLANS.
- 17. SUBSTITUTIONS: DESIGN, MATERIAL, EQUIPMENT AND PRODUCTS OTHER THAN THOSE DESCRIBED OR INDICATED ON DRAWINGS MAY BE CONSIDERED FOR USE. APPROVAL FOR SUBSTITUTIONS SHALL BE OBTAINED FROM THE OWNER AND LANDSCAPE ARCHITECT. ALL SUBSTITUTIONS SHALL CONFORM TO LOCAL CODES AND ORDINANCES.
- 18. GUARANTEE: ALL WORK PERFORMED BY CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE TIME OF COMPLETION AS DIRECTED BY OWNER, OR UNLESS OTHERWISE SPECIFIED HEREIN.

#### **B. FIELD OBSERVATIONS**

- REQUIRED FIELD OBSERVATION WORK: THESE PLANS WERE PREPARED WITH THE UNDERSTANDING THAT THE OWNER OF SAID PLANS WILL USE MIS DESIGN GROUP TO PROVIDE 'FULL' CONTRACT SERVICES INCLUDING FIELD OBSERVATION SERVICES DURING CONSTRUCTION, FAILURE TO USE MIS DESIGN GROUP TO PROVIDE AND COMPLETE THE FIELD OBSERVATION SERVICES SET FORTH HEREIN WILL SIGNIFICANTLY INCREASE THE MISINTERPRETATION OF THE INTENT OF THE DESIGN. UNAUTHORIZED MODIFICATIONS THERETO, AND FAILURE TO DETECT ERRORS AND OMISSIONS IN THE PLANS AND SPECIFICATIONS BEFORE THEY BECOME COSTLY MISTAKES BUILT INTO THE PROJECT. THEREFORE, IN THE EVENT THAT MIS DESIGN GROUP IS OTHERWISE PRECLUDED FROM COMPLETING THE FIELD OBSERVATION SERVICES SET FORTH HEREIN, THE OWNER, OR SUBSEQUENT OWNER (INDIVIDUALS OR CORPORATIONS WHO HAVE PURCHASED THESE PLANS WITH THE PROJECT), AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND MJS DESIGN GROUP AND THEIR CONSULTANTS FROM AND AGAINST ANY AND ALL CLAIMS.
- 2. FIELD OBSERVATION COORDINATION: THE FOLLOWING OBSERVATIONS SHALL BE INITIATED BY THE CONTRACTOR AND COORDINATED THROUGH THE OWNER (JOB SUPERINTENDENT). THE CONTRACTOR SHALL NOTIFY THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT NOT LESS THAN FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY OBSERVATION. CONTINUED WORK WITHOUT OBSERVATION OF THESE PHASES OF WORK IS AT THE CONTRACTOR'S RISK, WITH ANY REQUIRED CHANGES OR MODIFICATIONS TO BE AT CONTRACTOR'S EXPENSE THE OWNER (JOB SUPERINTENDENT) SHALL INFORM THE LANDSCAPE ARCHITECT AS TO THE PURPOSE AND TIME OF THE OBSERVATION FORTY-EIGHT (48) HOURS IN ADVANCE.
- 3. JOB SITE MEETINGS AND REQUIRED INSPECTIONS:
- A. PRE-JOB MEETING ON SITE PRIOR TO COMMENCEMENT OF WORK B. DURING SOIL PREPARATION FOR PLANTING AND IRRIGATION.
- C. CONSTRUCTION STAKING AND LAYOUT OBSERVATION. D. ROUGH CONSTRUCTION PROGRESS OBSERVATION (FORMING, ETC.).
- AT COMPLETION OF SOIL PREPARATION. PRESSURE TEST IRRIGATION, MAINS AND LATERALS.
- G. COVERAGE OF IRRIGATION SYSTEM. H. COMPLETION OF WEED CONTROL.
- PLANT MATERIAL SPOTTING CHECK. GRADING CHECK PRIOR TO GROUNDCOVER.
- COMPLETION OF PLANTING. 30, 60 & 90-DAY MAINTENANCE INSPECTIONS
- M. FINAL OBSERVATION/PROJECT CERTIFICATION.

### C. DRAINAGE NOTES

- I. SCOPE OF WORK: CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES FOR THE INSTALLATION OF A SUBSURFACE DRAINAGE SYSTEM.
- 2. LICENSE: THE DRAINAGE CONTRACTOR SHALL BE A C-27 LICENSED LANDSCAPE CONTRACTOR OR LICENSED PER APPROPRIATE LOCAL
- 3. UNIFORM BUILDING CODE: ALL DRAINAGE CONSTRUCTION SHALL CONFORM TO THE CURRENT EDITION OF THE UNIFORM BUILDING CODE AND ALL APPLICABLE GOVERNING AGENCIES.

- 4. APPROVALS / CERTIFICATIONS: THE CONTRACTOR SHALL INITIATE AND COORDINATE THROUGH THE OWNER ALL REQUIRED AGENCY APPROVALS. CONTRACTOR SHALL COOPERATE WITH THE OWNER AND OWNER'S ENGINEER FOR LINE AND GRADE INSPECTION.
- 5. FIELD VERIFICATION: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. OWNER AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- 6. UTILITIES: CONTRACTOR SHALL LOCATE AND TAKE ALL PRECAUTIONS NECESSARY TO PREVENT UNDERMINING AND DAMAGE TO EXISTING UTILITIES.
- 7. COORDINATION: CONTRACTOR SHALL COORDINATE WITH APPROPRIATE TRADES TO LOCATE PIPE (IRRIGATION, EXISTING DRAINAGE, ELECTRICAL, ETC.) INFRINGING WITH DRAIN AND DRAIN LINES LOCATIONS BEFORE STARTING WORK.
- 8. TRENCHING: PIPE TRENCH SHALL BE EXCAVATED STRAIGHT AND TRUE O GRADE. IN GENERAL THE TRENCH WIDTH SHOULD NOT EXCEED THE DIAMETER OF THE PIPE PLUS TWO FEET. TRENCH BOTTOM SHALL BE GRADED AND PREPARED TO PROVIDE A FIRM AND UNIFORM BEARING SURFACE THROUGHOUT ENTIRE LENGTH OF PIPE.
- 9. SUBGRADE: ALL SUBGRADE STABILIZERS FOR SUBSURFACE DRAINAGE SYSTEM SHALL BE PER STRUCTURAL SOILS REPORT.
- 10. SWALES: SWALE LINE SHALL HAVE A 2% MINIMUM PITCH CONTINUALLY TO THE DRAIN INLET TO THE CATCH BASIN OR DISCHARGE POINT. SWALES SHALL HAVE A GENTLE UNIFORM CROSS PITCH WITHOUT ANY UNEVEN OR ABRUPT TRANSITIONS.
- II. DRAINS: DRAIN INLETS OR CATCH BASIN SHALL BE LOCATED AT SWALE LOW POINTS. ALL AREA DRAINS, CATCH BASINS, ETC. SHALL CONFORM TO ALL SPECIFICATIONS AND RECOMMENDED INSTALLATION PROCEDURES OF MANUFACTURER.
- 12. DRAIN LINES: ALL DRAIN LINES SHALL BE Ø4" (UNLESS OTHERWISE SPECIFIED BY OWNER) SDER 35, OR APPROVED BY LANDSCAPE ARCHITECT NON-PERFORATED TUBING, SOLVENT WELD ALL CONNECTIONS. ALL DRAIN LINES ON SLOPES TO BE SCHEDULE 40 PVC OR APPROVED BY LANDSCAPE ARCHITECT. ALL DRAINAGE PIPE SHALL BE INSTALLED PER MANUFACTURE'S SPECIFICATIONS. ALL CHANGES IN DIRECTION IN THE DRAIN LINE SHALL BE WITH 45° ANGLE FITTINGS. INSTALL DRAIN LINE 12" BELOW FINISH GRADE MINIMUM, EXCEPT WHERE DRAIN LINES DAYLIGHT AT CURB. INVERT OF CURB DRAINS SHALL BE LOCATED MINIMUM OF I" ABOVE GUTTER FLOW LINE, AND SHALL HAVE A MINIMUM CLEARANCE OF 2" TOP OF CURB AND TERMINATE AT LEAST I" BACK OF CURB FACE, DRAIN LINES SHALL BE INSTALLED WITH A 1% SLOPE FROM THE DRAIN INLET TO THE DRAIN
- 13. CONNECTIONS: ALL SUBSURFACE AND SURFACE DRAINAGE SYSTEMS SHALL BE CONTAINED WITHIN THE PROPERTY IT SERVES. ALL DRAIN INLETS SHALL BE CONNECTED TO A CENTRALIZED SYSTEM WITH DRAIN OUTLET WHICH EXITS AT CURB FACE OR CONNECTS INTO STORM DRAIN SYSTEM PER CIVIL ENGINEER.
- 14. BACKFILLING: ALL BACKFILLING SHALL BE DONE IN ACCORDANCE WITH STRUCTURAL SOILS REPORT.
- 15. INSTALLATION UPKEEP: INTERIOR OF PIPE SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER PRIOR TO, DURING AND AFTER INSTALLATION. CONTRACTOR SHALL MAINTAIN THE PROJECT SITE THROUGHOUT THE PROGRESS OF THE WORK IN A REASONABLE, DRY WORKABLE CONDITION FREE OF SURFACE WATER.
- 16. DEFECTS: ALL DEFECTS IN DRAINAGE SYSTEM SHALL BE CORRECTED THROUGH THE GUARANTEE PERIOD SPECIFIED HEREIN AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

#### D. CONCRETE NOTES

- 1. SCOPE OF WORK: CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES FOR THE INSTALLATION OF ALL CONCRETE FLATWORK INDICATED ON THESE PLANS.
- 2. PLAN VERIFICATION: THE CONTRACTOR SHALL NOTIFY OWNER AND LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS ON ALL DRAWINGS.
- 3. LICENSE: THE CONCRETE CONTRACTOR SHALL BE A C-8 CALIFORNIA LICENSED CONTRACTOR, OR A C-27 LICENSED LANDSCAPE CONTRACTOR IF CONCRETE IS APPURTENANT TO LANDSCAPE WORK.
- 4. UNIFORM BUILDING CODE: ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT EDITION OF THE UNIFORM BUILDING CODE AND ALL APPLICABLE GOVERNING AGENCIES.
- 5. FIELD VERIFICATION: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. OWNER AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

6. COORDINATION: CONTRACTOR SHALL COORDINATE WITH

- APPROPRIATE TRADES TO LOCATE PIPE SLEEVES, (IRRIGATION, DRAINAGE, ELECTRICAL ETC.), BENEATH OR EMBEDDED IN CONCRETE BEFORE STARTING WORK.
- 7. SOIL PREPARATION: ALL EXCAVATION, GRADING, COMPACTION, ETC. SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE STRUCTURAL SOILS REPORT. ALL SOIL MODIFICATIONS SHALL BE UNDER THE SUPERVISION OF A SOILS ENGINEER.
- 8. SUBGRADE: ALL SUBGRADE MATERIAL, SAND, CRUSHED AGGREGATE, ETC., AND THEIR COMPACTION SHALL BE PER STRUCTURAL SOILS **ENGINEER SPECIFICATIONS.**
- 9. ROCK AND SAND SPECIFICATIONS: SAND AND AGGREGATE FOR CONCRETE SHALL BE CLEAN, NATURAL MATERIALS CONFORMING TO **ASTM DESIGNATION C33.**
- 10. WATER: WATER FOR CONCRETE SHALL BE CLEAN AND FREE FROM DELETERIOUS SUBSTANCES.
- 11. CEMENT: CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO CURRENT REQUIREMENTS OF ASTM C-150, TYPE I OR TYPE II. CEMENT SHALL BE OF THE SAME BRAND AND TYPE USED THROUGHOUT THE
- 12. MIXING: PROPORTIONING AND MIXING OF CEMENT, AGGREGATE, ADMIXTURE AND WATER TO ATTAIN REQUIRED PLASTICITY AND STRENGTH SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE ACI MANUAL OF CONCRETE PRACTICE AND THE PCA "DESIGN AND CONTROL OF CONCRETE MIXTURES".
- 13. COMPRESSIVE STRENGTH OF CONCRETE: ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2,500 P.S.I. AT 28 DAYS WITH A SLUMP NOT TO EXCEED 4" CONFORMING WITH ASTM C-39. CONCRETE SHALL CONSIST OF A MINIMUM 5 SACK PORTLAND CEMENT/SAND/GRAVEL MIX, CONFORMING WITH ASTM C-150.
- 14. CONCRETE FORMS: OWNER AND LANDSCAPE ARCHITECT SHALL APPROVE ALL CONCRETE FORMS PRIOR TO POURING FLATWORK. FORMS SHALL BE CONSTRUCTED ACCURATELY TO DIMENSIONS, PLUMB AND TRUE TO LINE AND GRADE. FORMS SHALL BE SUBSTANTIAL, MORTAR TIGHT, BRACED AND TIED SO AS TO MAINTAIN POSITION AND SHAPE DURING PLACING OF REINFORCING AND CONCRETE. FORMS SHALL BE THOROUGHLY CLEANED OUT BEFORE CONCRETE IS PLACED AND FORMS SHALL BE REMOVED WITHOUT DAMAGE TO CONCRETE. CARE SHALL BE TAKEN IN ALL DETAILS OF FORMING, SETTING. REINFORCING, MIXING AND PLACING ALL CONCRETE EXPOSED IN FINISH WORK TO OBTAIN SMOOTH, EVEN SURFACES OF DENSE CONCRETE, AND CLEAN SHARP INSIDE AND OUTSIDE CORNERS. FORMS SHALL REMAIN IN PLACE LONG ENOUGH TO ALLOW CONCRETE TO SET
- 15. CONCRETE REINFORCING STEEL: CONCRETE, AS INDICATED PER PLANS, WITH STEEL SHALL BE GRADE 60, DEFORMED BILLET STEEL CONFORMING TO ASTM A-615. LOCATE IN CENTER OF POUR TYPICAL WITH 2' MINIMUM CLEAR ALL EDGES.
- 16. WIRE MESH REINFORCEMENT: CONCRETE, AS INDICATED PER PLANS, TO HAVE 6 X 6 #10 WELDED WIRE MESH OR STEEL AS REQUIRED BY STRUCTURAL ENGINEER. LOCATE IN CENTER OR POUR TYPICAL WITH 2" MINIMUM CLEAR ALL EDGES.

- 17. THICKNESS OF CONCRETE: ALL CONCRETE FLATWORK SHALL HAVE A MINIMUM THICKNESS OF 4". ALL THICKENED EDGES FOR CONCRETE FLATWORK SHALL BE PER PLANS. A 1/2" RADIUS, OR PER PLANS, SHALL BE PROVIDED AT ALL EXPOSED EDGES AND/OR CORNERS.
- 18. CONCRETE FINISH: FINISH COURSE SHALL BE BROUGHT TO THE PROPER GRADE AND TO A UNIFORM SURFACE. CONCRETE COLORS AND FINISHES WILL BE PER CONSTRUCTION PLAN. ALL NATURAL CONCRETE WITH MEDIUM BROOM FINISH.
- 19. BROOM FINISH: BROOM FINISH (WHERE INDICATED ON DRAWINGS), AFTER FINISH TROWELING, DRAW THE FOLLOWING BROOM TYPES ACROSS PERPENDICULAR TO TRAFFIC FLOW OR IN THE DIRECTION AS INDICATED ON THE DRAWINGS.
- FINE BROOM FINE OR SOFT TEXTURED BRISTLES MEDIUM BROOM - MEDIUM STIFF BRISTLES • HEAVY BROOM - COARSE OR STIFF BRISTLES
- 20. ROCK SALT FINISH: APPLY ROCK SALT EVENLY OVER ENTIRE SURFACE JUST PRIOR TO FINISH TROWELING. PRESS SALT INTO THE SURFACE WITH TROWEL OR ROLLER SO THAT SALT IS EMBEDDED JUST BELOW SURFACE LEAVING THE TOPS OF THE CRYSTALS EXPOSED. ALLOW CONCRETE TO CURE. FINISH SHALL BE LIGHT, MEDIUM OR HEAVY PER DIRECTION OF LANDSCAPE ARCHITECT.
- 21. RETARDANT FINISH: CONCRETE SURFACE SHALL BE EXPOSED USING LITHACHROME CONCRETE SURFACE RETARDER OR APPROVED EQUAL. APPLY IN ACCORDANCE TO ALL SPECIFICATIONS AND RECOMMENDED INSTALLATION PROCEDURES OF MANUFACTURE, AGGREGATE FOR CONCRETE 60-40 PEA GRAVEL BLEND.
- 22. COLORED CONCRETE: COLORS PER CONSTRUCTION PLAN OR FINISH SCHEDULE. COLORS SHALL BE OF THE INTEGRAL TYPE MANUFACTURED BY L.M. SCOFIELD COMPANY OR APPROVED EQUAL. SURFACES DIRECTED BY LANDSCAPE ARCHITECT SHALL BE SEALED WITH LITHOCHROME COLORWAX OR APPROVED EQUAL. APPLY IN ACCORDANCE TO ALL SPECIFICATIONS AND RECOMMENDED INSTALLATION PROCEDURES OF MANUFACTURE
- 23. STAMPED CONCRETE: CONTRACTOR SHALL INSTALL STAMP CONCRETE PATTERNS TO CONFORM TO ALL SPECIFICATIONS AND RECOMMENDED INSTALLATION PROCEDURES OF MANUFACTURE, AND SHALL USE MANUFACTURE'S RECOMMENDED PATTERNS, TOOLS AND FORMS. CONTRACTOR SHALL USE RUBBER STAMPS OR AS APPROVED BY LANDSCAPE ARCHITECT. COLOR HARDENER SHALL MATCH CONCRETE COLOR AND BE APPLIED PER MANUFACTURE'S RECOMMENDATIONS RELEASE AGENTS, AS PER PLANS, SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS.
- 24. CONCRETE SAMPLE: CONTRACTOR SHALL PROVIDE OWNER WITH A 2' x 2' SAMPLE OF ALL CONCRETE FINISHES & STAMP PATTERNS AS PER PLANS. SAMPLES SHALL BE APPROVED BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO POURING FLATWORK.
- 25. CURING: CURE CONCRETE IN ACCORDANCE WITH REQUIREMENTS OF THE CURRENT ACI MANUAL OF CONCRETE PRACTICE.
- 26. POSITIVE DRAINAGE: CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DRAINAGE, WITHOUT PONDING ON ALL CONCRETE SURFACES. ALL CONCRETE FLATWORK SHALL SLOPE MINIMUM 1% AWAY FROM BUILDINGS, WALLS, ETC., IN THE DIRECTION OF SITE DRAINAGE.
- 27. CONCRETE IOINTS: CONTRACTOR SHALL INSTALL IOINTS AS NOTED OR PER STRUCTURAL ENGINEERS SPECIFICATIONS.
- CONCRETE WALKS (LESS THAN 8" 0"): A TOOLED CONTROL JOINT, AT 1/4 DEPTH OF CONCRETE, SHALL BE PLACED 5' - 0" O.C. MAX., AT ALL CHANGES IN DIRECTION AND AT ALL INSIDE CORNERS. EXPANSION JOINTS WITH PREMOLDED 3/8" ASPHALTIC JOINT OR ETHAFOAM FELT AS PER OWNER'S SPECIFICATIONS, SHALL BE PLACED 20' - 0" O.C. MAX. CONCRETE PAVING: A TOOLED CONTROL IOINT AT 1/4 DEPTH OF
- CONCRETE, SHALL BE PLACED AT PLUS/MINUS 40 SQ. FEET MAXIMUM, ALL CHANGES IN DIRECTION AND AT ALL INSIDE CORNERS. EXPANSION IOINTS WITH PREMOLDED 3/8" ASPHALTIC JOINT OR ETHAFOAM FELT AS PER OWNER'S SPECIFICATIONS, SHALL BE PLACED AT  $\pm 160$  SQ. FT. MAX.
- 28. ADJOINING EXISTING CONCRETE SURFACES: CONCRETE DESIGNATED ON PLANS TO MEET ALL EXISTING CONCRETE WALKS, DRIVEWAYS ETC. SHALL BE FLUSH AND INCLUDE AN EXPANSION JOINT BETWEEN THE
- 29. DEFECTS: ALL DEFECTS IN CONCRETE WORK SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

#### E. MASONRY NOTES

- I. SCOPE OF WORK: CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES TO CONSTRUCT MASONRY STRUCTURES INDICATED ON THESE PLANS.
- 2. PLAN VERIFICATION: THE CONTRACTOR SHALL NOTIFY OWNER AND LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS ON ALL DRAWINGS.
- LICENSE: THE MASONRY CONTRACTOR SHALL BE A C-29 CALIFORNIA LICENSED MASONRY CONTRACTOR, OR A C-27 LICENSED LANDSCAPE CONTRACTOR IF MASONRY IS APPURTENANT TO LANDSCAPE WORK.
- UNIFORM BUILDING CODE: ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE CURRENT EDITION OF THE UNIFORM BUILDING CODE, MASONRY DESIGN MANUAL AND ALL APPLICABLE GOVERNING AGENCIES.
- FIELD VERIFICATION: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. OWNER AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- COORDINATION: CONTRACTOR SHALL COORDINATE WITH APPROPRIATE TRADES TO LOCATE PIPE SLEEVES, IRRIGATION, DRAINAGE, ELECTRICAL ETC., BENEATH OR EMBEDDED IN MASONRY WALLS, BEFORE STARTING WORK.
- SOIL PREPARATION: ALL EXCAVATION, GRADING, COMPACTION, ETC. SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE STRUCTURAL SOILS REPORT. ALL SOIL MODIFICATIONS SHALL BE UNDER THE DIRECTION OF A SOILS ENGINEER.
- 8. ROCK AND SAND SPECIFICATIONS: SAND AND AGGREGATE FOR MASONRY SHALL BE CLEAN NATURAL MATERIALS CONFORMING TO ASTM DESIGNATION C-144 AND C-404.
- 9. WATER: WATER FOR CONCRETE SHALL BE CLEAN AND FREE FROM **DELETERIOUS SUBSTANCES.**

CURRENT REQUIREMENTS OF ASTM C-150, TYPE I OR TYPE II.

SHOWN ON DRAWINGS.

II. CONCRETE BLOCK: MASONRY UNITS SHALL BE TYPE II UNITS CONFORMING TO ASTM C-90 AND IN ADDITION THE REQUIREMENTS OF THE QUALITY CONTROL STANDARDS OF THE CONCRETE MASONRY

10. CEMENT: CEMENT SHALL BE PORTLAND CEMENT TO CONFORMING TO

12. EXECUTION: LAY MASONRY IN STRAIGHT COURSES IN RUNNING BOND, TRUE TO PLANE AND PLUMB WITHIN 1/8" IN 10 FEET. FACES OF MASONRY UNITS SHALL BE ALL IN ONE PLANE. MAKE HORIZONTAL AND VERTICAL MORTAR JOINTS 3/8" THICK. TOOL ALL JOINTS FLUSH CUT UNITS WITH MASONRY SAW.

ASSOCIATION OF CALIFORNIA. SIZE, TEXTURE & COLOR SHALL BE

- 13. MORTAR: MORTAR SHALL BE TYPE 'S' AND CONFORM TO ASTM C-270. UNIFORMLY MIX IN THE RATIO I PART PORTLAND CEMENT TO 1/2 PART HYDRATED LIME OT 3 PART SAND. MORTAR TO MATCH COLOR OF BLOCK OR PER PLAN.
- 14. GROUT: GROUT SHALL BE A FLUID CONSISTENCY AND MIXED IN THE RATIO BY VOLUME. I PART CEMENT. 3 PARTS SAND. OR I PART CEMENT. 3 PARTS SAND, 2 PARTS PEAGRAVEL. GROUT SHALL ATTAIN A MINIMUM COMPRESSION STRENGTH OF 2,000 P.S.I. @ 28 DAYS.
- 15. COMPRESSIVE STRENGTH OF CONCRETE: ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2,500 P.S.I. AT 28 DAYS OR PER STRUCTURAL ENGINEER'S RECOMMENDATIONS WITH A SLUMP NOT TO EXCEED 4" CONFORMING WITH ASTM C-39. CONCRETE SHALL CONSIST OF A MINIMUM 5 SACK PORTLAND CEMENT/SAND/GRAVEL MIX, CONFORMING WITH ASTM C-150.

- 16. MASONRY REINFORCING STEEL: STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 EXCEPT THAT 1/4" TIES MAY BE PLAIN BARS. WIRE REINFORCEMENT SHALL CONFORM TO ASTM A-82.
- 17. REBAR: ACCURATELY PLACE REINFORCING STEEL AS SHOWN ON THE DRAWINGS OR PER STRUCTURAL ENGINEER, POSITIVELY SECURED AND SUPPORTED, NOT EXCEEDING 200 BAR DIAMETERS. IN SUCH A MANNER THAT NO MOVEMENT OCCURS WHEN GROUT IS POURED. REINFORCING AND THE WIRES SHALL BE EMBEDDED IN THE GROUT LENGTH OF LAPPED SPLICE SHALL BE A MINIMUM OF 40 BAR DIAMETERS FOR TENSION, 30 BAR DIAMETERS FOR COMPRESSION, OR AS PER STRUCTURAL ENGINEER RECOMMENDATIONS. THE THICKNESS OF THE GROUT BETWEEN MASONRY UNITS AND REINFORCING SHALL BE A MINIMUM OF 1/4" FOR FINE GROUT AND 1/2" MINIMUM FOR COURSE GROUT.
- 18. FOOTINGS: CONCRETE FOOTINGS SHALL BE OF THE SIZE AND TYPE AS INDICATED ON DRAWINGS OR AS PER STRUCTURAL ENGINEER'S SPECIFICATIONS. EARTHFORMS MAY BE USED FOR FOOTINGS ONLY WHERE SOIL IS FIRM AND STABLE AND CONCRETE WILL NOT BE
- 19. WELDING: WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D12-I AND REQUIREMENTS OF THE AMERICAN WELDING
- 20. GROUTING: : ALL MASONRY SHALL BE REINFORCED, GROUT SOLID ALL CELLS WHICH CONTAIN REBAR, BOLTS ETC. GROUT CELLS BELOW GRADE SOLID. ALL REINFORCEMENT, BOLTS ETC. IN MASONRY SHALL HAVE A MINIMUM GROUT COVERAGE OF 3/4".
- 21. BELOW GRADE CONSTRUCTION: MASONRY CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING ALL WALLS TO GRADES PER PLAN (OR PER CIVIL ENGINEER), FINISH GRADE FOR RUNOFF SWALE BEHIND ALL WALLS, PERFORATED DRAIN LINES COMPLETE AND CONNECTED TO DRAINAGE SYSTEM OR STREET, WATERPROOFING ALL WALLS BELOW BELOW GRADE AND ALL EXCAVATION NECESSARY FOR THE EXECUTION OF MASONRY WORK. FILL SOIL PER STRUCTURAL ENGINEER WALLS. ALL RETAINING WALLS SHALL BE ADEQUATELY SHORED DURING BACKFILL OPERATION.
- 22. EXPANSION JOINTS: CONTRACTOR SHALL PROVIDE EXPANSION OINTS AT CORNERS AND AT 30' - 0" ON CENTER OR AS REQUIRED BY GOVERNING AGENCY.
- 23. SURPLUS SOIL: MASONRY CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING ALL 'SPOILS' OR SURPLUS SOIL ON SITE AS A RESULT OF MASONRY WORK.
- 24. MASONRY SAMPLE: CONTRACTOR SHALL PROVIDE TO OWNER A 4' x 6' SAMPLE PANEL OF ALL MASONRY WALL TYPES ON PLANS. SAMPLES SHALL BE APPROVED BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- 25. STUCCO APPLICATION: ALL STUCCO WORK SHALL CONFORM TO LATHING AND PLASTERING REFERENCE SPECIFICATIONS OF THE CALIFORNIA LATHING AND PLASTERING CONTRACTOR'S ASSOCIATION, INC. AND STANDARDS FOR PUBLIC WORK CONSTRUCTION. STUCCO APPLICATION SHALL CONFORM TO ALL SPECIFICATIONS AND RECOMMENDED INSTALLATION PROCEDURES OF MANUFACTURER.
- 26. PLASTER PROPORTIONS: PLASTER FINISH TO INCLUDE: • SCRATCH COAT - 3/8" THICK I PART PORTLAND CEMENT PLASTER AND 4 PARTS DAMP BROWN COAT - 3/8" THICK I PART PORTLAND CEMENT PLASTER AND UP TO 5 PARTS DAMP LOOSE SAND COLOR FINISH COAT - I/8" THICK PORTLAND CEMENT PLASTER MIX WITH WATER ONLY

PORTLAND CEMENT PLASTER MIX INCLUDES: I PART PORTLAND

MANUFACTURE'S SPECS.) 27. PLASTER FINISH: ALL PLASTER FINISHES, TEXTURES AND COLORS SHALL MATCH REFERENCED ARCHITECTURE OR AS DIRECTED BY

OWNER. CONTRACTOR SHALL SUPPLY A 2' x 2' SAMPLE OF ALL

PLASTER FINISHES FOR OWNER'S APPROVAL.

CEMENT 1/4 PART HYDRATED LIME WATERPROOFING ADMIXTURE (PER

- 28. WATER SEAL: APPLY WATER SEALER TO ALL PLASTER FINISHES UNLESS OTHERWISE APPROVED IN WRITING BY OWNER.
- 29. MASONRY VENEER/TILE: ALL TILE, BRICKS, PAVERS, PRECAST CONCRETE VENEER AND CAPS SPECIFIED ON PLANS TO BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.
- 30. SPECIAL MASONRY WALL MATERIALS: ALL SPECIAL WALL MATERIALS OAM ETC. SHALL CONFORM TO ALL SPECIFICATIONS AND RECOMMENDED INSTALLATION PROCEDURES OF MANUFACTURER.
- II. DEFECTS: ALL DEFECTS IN MASONRY WORK SHALL BE CORRECTED THROUGH THE GUARANTEE PERIOD SPECIFIED HEREIN AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

#### F. CARPENTRY NOTES

- PLAN VERIFICATION: THE CONTRACTOR SHALL NOTIFY OWNER AND LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR
- OMISSIONS ON ALL DRAWINGS. 2. LICENSE: THE CARPENTRY CONTRACTOR SHALL BE A C-29 CALIFORNIA LICENSED CARPENTRY CONTRACT OR A C-27 LICENSED LANDSCAPE CONTRACTOR IF CARPENTRY IS APPURTENANT TO LANDSCAPE WORK.
- UNIFORM BUILDING CODE: ALL CARPENTRY CONSTRUCTION SHALL CONFORM TO THE APPLICABLE EDITION OF THE UNIFORM BUILDING CODE AND ALL GOVERNING AGENCY CODES.
- 4. FIELD VERIFICATION: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. OWNER AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- DELIVERY AND STORAGE: ALL MATERIALS, IN SO FAR AS IS PRACTICAL SHALL BE DELIVERED TO THE SITE IN THE MANUFACTURER'S ORIGINAL CONTAINERS AND SHALL BEAR THE TRADEMARKS AND NAMES THEREOF. GRADE MARK SHALL BE STAMPED ON ALL STANDARD YARD-DIMENSION LUMBER OR CERTIFIED FOR COMPLIANCE. EACH PIECE OF TREATED LUMBER SHALL BE STAMPED. LUMBER SHALL BE CAREFULLY STACKED TO PREVENT WARPING AND SHALL BE KEPT DRY
- 6. CONNECTIONS: MEMBERS SHALL BE ACCURATELY CUT AND FITTED AND SOLIDLY FASTENED TOGETHER TO PRODUCE PLUMB, LEVEL AND RIGID CONSTRUCTION. SLICING OFFRAMING MEMBERS BETWEEN SUPPORTS IS PROHIBITED. FACES OF ALL MEMBERS SHALL BE INSTALLED IN EVEN TRUE PLANES. NAILING, SPIKING AND BOLTING SHALL BE DONE IN ACCORDANCE WITH UNIFORM BUILDING CODE. METAL CONNECTORS AND JOIST HANGERS SHALL BE LOCATED WHERE SHOWN OR PER UNIFORM BUILDING CODE. DRILL HOLES FOR BOLTS THE SAME DIAMETER AS THE BOLT SHANK PLUS 1/16". PROVIDE WASHER UNDER BOLT HEADS AND NUTS. ALL THROUGH BOLTS LENGTHS ARE TO BE WIDTH OF MEMBERS PLUS I" OR SIZE PER PLAN LAG SCREWS ARE NOT TO BE DRIVEN. DRILL HOLES FOR LAGS FIRST TO DIAMETER AND DEPTH OF THREAD, FOLLOWED BY DRILLING TO 75% OF SHANK DIAMETER AND DEPTH OF THREAD. WOOD SCREWS SHALL NOT BE DRIVEN. PROVIDE SUB-DRILLED HOLES FOR ALL SCREWS OR USE SELF- DRILLING SCREWS. TIGHTEN BOLTS AND SCREWS AT INSTALLATION AND RETIGHTEN JUST PRIOR TO COMPLETION OF PROJECT. ALL CONNECTIONS NOT DESIGNATED ON PLANS SHALL BE PER UNIFORM BUILDING CODE \$129 NAIL AND CONNECTION SCHEDULES.
- LUMBER QUALITY: ALL LUMBER TO BE DOUGLAS FIR, GRADE NO. I SELECT, SMOOTH FOUR SIDES, UNLESS OTHERWISE NOTED PER PLANS. ALL LUMBER SHALL BE IDENTIFIED AS TO SPECIES, GRADE, AND STAMPED BY WEST COAST LUMBER INSPECTION BUREAU.
- 8. PRESSURE TREATED LUMBER: ALL WOOD BEARING ON CONCRETE MASONRY, ON OR BURIED INTO GRADE, OR SPECIFIED PER PLANS SHALL BE PRESSURE TREATED DOUGLAS FIR NUMBER 2 UNLESS OTHERWISE
- 9. HARDWARE: ALL NAILS, CONNECTORS, OR OTHER HARDWARE SHALL BE HOT DIPPED GALVANIZED OR CADMIUM PLATED, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PAINT ALL HARDWARE (PER PAINTING AND STAINING NOTES) TO MATCH WOOD FINISH.

10. FOOTINGS: CONCRETE FOOTINGS SHALL BE OF THE SIZE AND TYPE AS

INDICATED ON DRAWINGS OR AS PER STRUCTURAL FOOTINGS ONLY WHERE SOIL IS FIRM AND STABLE AND CONCRETE WILL NOT BE

11. DEFECTS: ALL DEFECTS IN CARPENTRY WORK SHALL BE CORRECTED THROUGH GUARANTEE PERIOD SPECIFIED HEREIN AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

EXPOSED.

#### G. TUBULAR STEEL / METAL NOTES

- SCOPE OF WORK: CONTRACTOR SHALL PROVIDE ALL LABOR. MATERIALS, EQUIPMENT AND SERVICES FOR THE INSTALLATION OF ALL TUBULAR STEEL / METAL WORK INDICATED ON THESE PLANS.
- 2. PLAN VERIFICATION: THE CONTRACTOR SHALL NOTIFY OWNER AND LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS ON ALL DRAWINGS.
- LICENSE: THE TUBULAR STEEL CONTRACTOR SHALL BE A C-23 CALIFORNIA LICENSED TUBULAR STEEL FENCE CONTRACTOR.
- 4. UNIFORM BUILDING CODE: ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT EDITION OF THE UNIFORM BUILDING CODE AND ALL APPLICABLE GOVERNING AGENCIES.
- FIELD VERIFICATION: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. OWNER AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- WORKMANSHIP: ALL TUBULAR STEEL WORK SHALL BE PLUMB, STRAIGHT AND TO LINE AND HEIGHT, LEVEL WITH ACCURATE ANGEL AND SURFACES AS INDICATED ON DRAWINGS.
- MATERIAL STANDARDS: : ALL METAL WORK SHALL BE FREE OF DEFECTS WHICH IMPAIR STRENGTH, DURABILITY AND APPEARANCE. STEEL BARS, PLATES, ETC. SHALL CONFORM TO ASTM A-36.
- WELDING: WELDING OF TUBULAR STEEL SHALL CONFORM TO AWS DI2-I AND REQUIREMENTS OF THE AMERICAN WELDING SOCIETY. WELD ALL CONNECTIONS CONTINUOUS AND SOLID. GRIND ALL WELDS SMOOTH.
- FOOTINGS: CONCRETE FOOTINGS SHALL BE OF THE SIZE AND TYPE AS INDICATED ON DRAWINGS OR AS PER STRUCTURAL ENGINEER'S SPECIFICATIONS. EARTHFORMS MAY BE USED FOR FOOTINGS ONLY WHERE SOIL IS FIRM AND STABLE AND CONCRETE WILL NOT BE EXPOSED.
- 10. CAPS: CONTRACTOR SHALL CAP ALL EXPOSED ENDS OF TUBING.
- 11. PAINT: ALL EXPOSED SURFACES TO BE PAINTED WITH I COAT OXIDE BASE PRIMER AND PAINTED WITH 2 COATS OF RUST INHIBITING ENAMEL PAINT. COLOR AND FINISH PER DRAWINGS.
- 12. CLEANING: AFTER ERECTION, CLEAN OFF ALL RUST, SCALE AND OIL CLEAN FIELD WELDS, BOLTS AND ABRADED AREAS. TOUCH UP ALL AREAS WITH THE SAME MATERIAL AS USED FOR THE SHOP COAT LEAVING ALL SURFACES READY TO RECEIVE FINISH COATS.
- 13. DEFECTS: ALL DEFECTS IN TUBULAR STEEL/METAL WORK SHALL BE CORRECTED THROUGH THE GUARANTEE HEREIN, AT THE

#### H. PAINTING AND STAINING NOTES

CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

- SCOPE OF WORK: CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, **EOUIPMENT AND SERVICES FOR THE SANDING, PRIMING, PAINTING OR** STAINING OF ALL MATERIALS INDICATED ON THESE PLANS.
- 2. PLAN VERIFICATION: THE CONTRACTOR SHALL NOTIFY OWNER AND LANDSCAPE IMMEDIATELY ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS ON ALL DRAWINGS.
- UNIFORM BUILDING CODE: ALL PAINTING AND STAINING SHALL CONFORM TO THE CURRENT EDITION OF THE UNIFORM BUILDING CODE AND ALL APPLICABLE GOVERNING AGENCIES.

4. FIELD VERIFICATION: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND

SITE CONDITIONS BEFORE STARTING WORK. OWNER AND LANDSCAPE

- ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. 5. MATERIALS: ALL PAINTS AND STAINS SHALL BE AS INDICATED ON DRAWING AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. ALL PAINT SHALL MEET THE REQUIREMENTS OF THE APPROPRIATE AIR POLLUTION CONTROL DISTRICT. PAINT SHALL BE HOMOGENOUS, FREE OF CONTAMINANTS AND OF A CONSISTENCY SUITABLE FOR THE USE FOR WHICH IT IS SPECIFIED. THE PIGMENT SHALL BE PROPERLY DISPERSED THROUGHOUT THE MATERIAL SUCH THAT THE
- DELIVERY: PAINT MATERIALS SHALL BE DELIVERED TO THE WORK SITE IN NEW. UNOPENED. AIRTIGHT CONTAINERS. APPROPRIATELY IDENTIFIED WITH THE MANUFACTURER'S NAME, DATE OF MANUFACTURE, TYPE OF

THE CONTAINER, OR BECOME GRANULAR OR CURDLED.

PAINT OR PAINT MATERIAL A AND LOT OR BATCH NUMBER.

DEFECTS (DRIPS, RUNS BRUSH MARKS, THINK AREAS, ETC.).

MATERIAL BEFORE ADDITIONAL PAINT IS APPLIED.

THOROUGHLY DRY BEFORE PAINT IS APPLIED.

PIGMENT DOES NOT SETTLE APPRECIABLY, DOES NOT CAKE OR THICKEN IN

- 7. EXECUTION: PAINT SHALL BE APPLIED ONLY ON THOROUGHLY DRY SURFACES AND DURING PERIODS OF FAVORABLE WEATHER. SURFACES TO BE PAINTED OR STAINED SHALL BE FREE FROM DUST, GREASE, OR OTHER
- DELETERIOUS SUBSTANCES THAT WOULD PREVENT BONDING. 8. APPLICATION: PAINTING SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH ALL CODES AND REGULATIONS. UNLESS OTHERWISE SPECIFIED, PAINT SHALL BE APPLIED BY BRUSH, ROLLER OR SPRAY METHODS. FINISHED SURFACES SHALL BE UNIFORM AND FREE OF
- 9. PAINTING LUMBER: UNLESS OTHERWISE SPECIFIED, ALL NEW LUMBER REQUIRING PAINTING SHALL CONSIST OF A PRIMER AND TWO FINISH COATS FOR WOOD STRUCTURES. WOOD SURFACES DESIGNATED TO BE PAINTED SHALL BE CLEANED. WHEN PERMITTED BY THE JOB SUPERINTENDENT, THE FIRST COAT OF PAINT MAY BE APPLIED PRIOR TO ERECTION. AFTER THE FIRST COAT HAS DRIED AND THE LUMBER IS IN PLACE, ALL CRACKS, CHECKS, NAIL HOLES, ETC. SHALL BE PUTTIED FLUSH WITH THE SURFACE AND ALLOWED TO DRY BEFORE THE SECOND COAT IS APPLIED. SKIPS, HOLIDAYS. THIN AREAS OR OTHER DEFICIENCIES IN ANY ONE COAT OF PAINT SHALL BE CORRECTED BEFORE THE SUCCEEDING COAT IS APPLIED. THE SURFACE OF ANY PAINT COAT BEING COVERED SHALL BE FREE OF DELETERIOUS
- 10. SURFACE PREPARATION FOR PAINTING GALVANIZED SURFACES: GALVANIZED SURFACES SHALL BE PREPARED FOR PAINTING BY HAND SCRAPING OR WIRE BRUSHING. AFTER HAND CLEANING, ALL GALVANIZED SURFACES SHALL BE CLEANED BY SOLVENT CLEANING PROCEDURES FOR REMOVING DETRIMENTAL FOREIGN MATTER SUCH AS OIL, GREASE, SOIL, ETC. AFTER WASHING, ALL AREAS SHALL BE ROUGHENED BY ABRASIVE BLASTING. GALVANIZING SHALL NOT BE REMOVED BY THIS OPERATION.
- 11. EXISTING WOOD SURFACE PREPARATION: WOOD SURFACES SHALL BE PREPARED FOR PAINTING BY REMOVING ALL CRACKED OR PEELED PAINT, LOOSE CHALKY PAINT, DIRT AND OTHER FOREIGN MATTER BY WIRE BRUSHING, SCRAPING, SANDING OR OTHER APPROVED MEANS IMMEDIATELY PRIOR TO PAINTING. ALL SURFACES SHALL BE WIPED OR DRY BRUSHED TO REMOVE ANY DUST OR CHALKY RESIDUE THAT MAY RESULT FROM CLEANING OPERATIONS. ALL WOOD DESIGNATED TO BE PAINTED SHALL BE
- 12. FINISH SAMPLE: CONTRACTOR SHALL PROVIDE OWNER WITH A SAMPLE OF ALL PAINTS AND STAINS COLORS AS PER PLANS. SAMPLES SHALL BE APPROVED BY OWNER AND LANDSCAPE ARCHITECT.
- 13. DEFECTS: THE CONTRACTOR SHALL PROTECT ALL PARTS OF THE STRUCTURE OR ADJACENT IMPROVEMENTS AGAINST DISFIGUREMENT AS A RESULT OF ITS PAINTING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY ITS OPERATIONS TO VEHICLES. PERSONS ORPROPERTY AND SHALL PROVIDE AT ITS EXPENSE PROTECTIVE MEANS TO GUARD AGAINST SUCH DAMAGE

03/15/21 100% DESIGN DEVELOPMENT

Issued for:

Revisions:

ARCHITECTURE

507 30th Street Newport Beach, CA 92663 949.675.9964 mis-la.com

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Project:

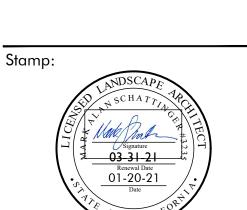
1905 & 1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016.015

Client:

MILESTONE

481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030



Job No: Drawn By: NL Checked By: MS

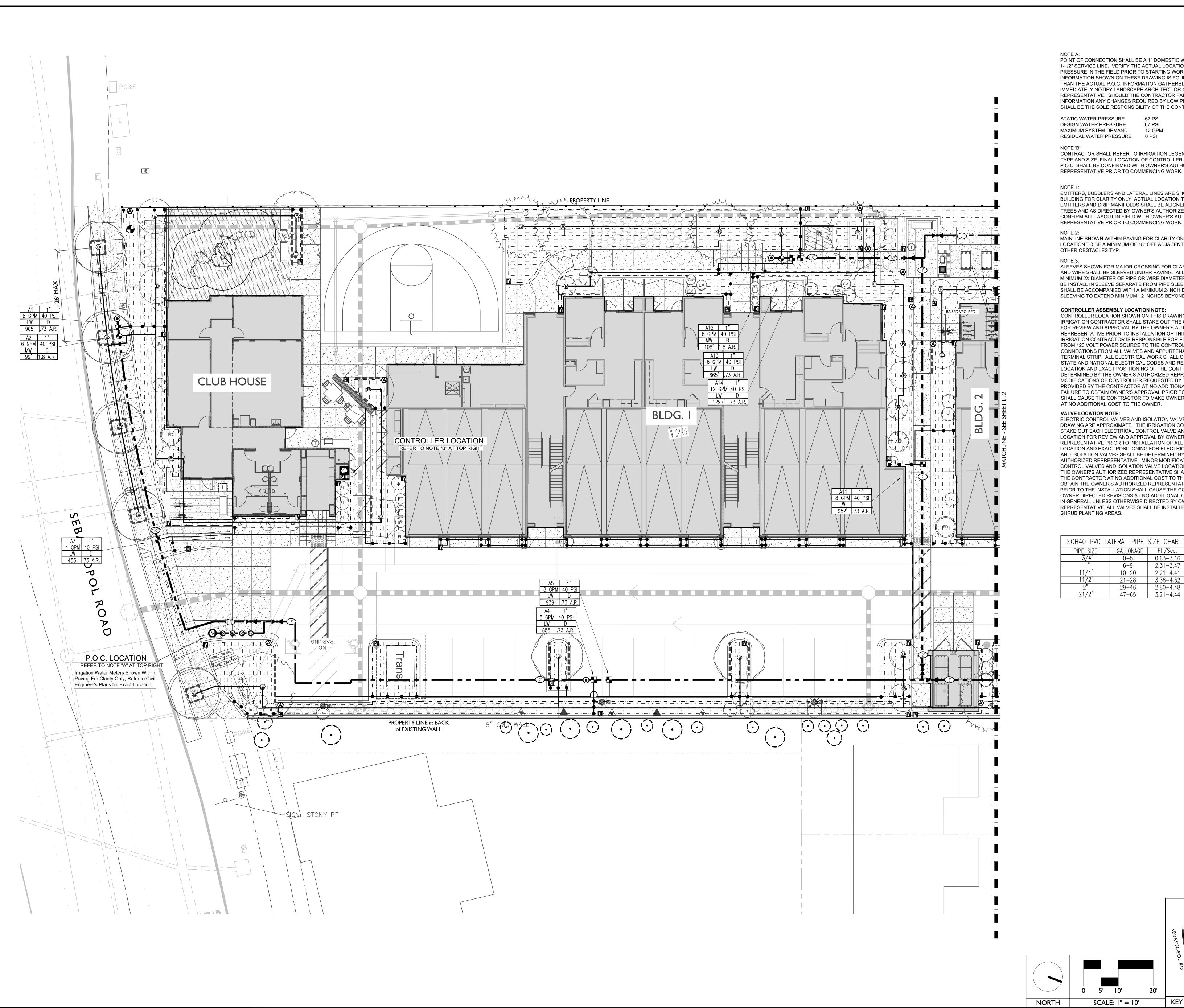
Plan Date: 06.02.2021

Scale: See Sheet

CONSTRUCTION

**SPECIFICATIONS** 

Sheet No.:



POINT OF CONNECTION SHALL BE A 1" DOMESTIC WATER METER WITH 1-1/2" SERVICE LINE. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE P.O.C. INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL P.O.C. INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE. SHOULD THE CONTRACTOR FAIL TO VERIFY THE P.O.C. INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

STATIC WATER PRESSURE DESIGN WATER PRESSURE 67 PSI MAXIMUM SYSTEM DEMAND 12 GPM RESIDUAL WATER PRESSURE 0 PSI

CONTRACTOR SHALL REFER TO IRRIGATION LEGEND FOR CONTROLLER TYPE AND SIZE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL P.O.C. SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

NOTE 1: EMITTERS, BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING AND BUILDING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER. EMITTERS AND DRIP MANIFOLDS SHALL BE ALIGNED WITH SHRUBS AND TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED

NOTE 2: MAINLINE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL MAINLINE LOCATION TO BE A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND

OTHER OBSTACLES TYP.

SLEEVES SHOWN FOR MAJOR CROSSING FOR CLARITY ONLY. ALL PIPING AND WIRE SHALL BE SLEEVED UNDER PAVING. ALL SLEEVES TO BE MINIMUM 2X DIAMETER OF PIPE OR WIRE DIAMETER INSIDE. WIRES SHALL BE INSTALL IN SLEEVE SEPARATE FROM PIPE SLEEVE. ALL MAINLINE SHALL BE ACCOMPANIED WITH A MINIMUM 2-INCH DIAMETER WIRE SLEEVE. SLEEVING TO EXTEND MINIMUM 12 INCHES BEYOND PAVING.

**CONTROLLER ASSEMBLY LOCATION NOTE:** 

CONTROLLER LOCATION SHOWN ON THIS DRAWING IS APPROXIMATE. THE IRRIGATION CONTRACTOR SHALL STAKE OUT THE CONTROLLER LOCATION FOR REVIEW AND APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF THIS EQUIPMENT. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL CONNECTION FROM 120 VOLT POWER SOURCE TO THE CONTROLLER AND ALL WIRE CONNECTIONS FROM ALL VALVES AND APPURTENANCE VALVES TO TERMINAL STRIP. ALL ELECTRICAL WORK SHALL CONFORM TO LOCAL STATE AND NATIONAL ELECTRICAL CODES AND REGULATIONS. FINAL LOCATION AND EXACT POSITIONING OF THE CONTROLLER SHALL BE DETERMINED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. MINOR MODIFICATIONS OF CONTROLLER REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER.

**VALVE LOCATION NOTE:** 

ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THIS DRAWING ARE APPROXIMATE. THE IRRIGATION CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY OWNER'S AUTHORIZED PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL, UNLESS OTHERWISE DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE, ALL VALVES SHALL BE INSTALLED AS SHOWN IN SHRUB PLANTING AREAS.

KEY MAP

SCALE: I" = 10'

SCH40 PVC LA	ATERAL PIPE	SIZE CHART	
PIPE SIZE	GALLONAGE	Ft./Sec.	
3/4"	0-5	0.63-3.16	
1"	6-9	2.31-3.47	
11/4"	10-20	2.21-4.41	
11/2"	21-28	3.38-4.52	
2"	29-46	2.80-4.48	
21/2"	47-65	3.21-4.44	

03/15/21 100% DESIGN DEVELOPMENT

Revisions:

ARCHITECTURE 507 30th Street Newport Beach, CA 92663

mjs-la.com

**3** 949.675.9964

NOT FOR CONSTRUCTION

Project:

## **ACME FAMILY APARTMENTS**

1905 & 1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

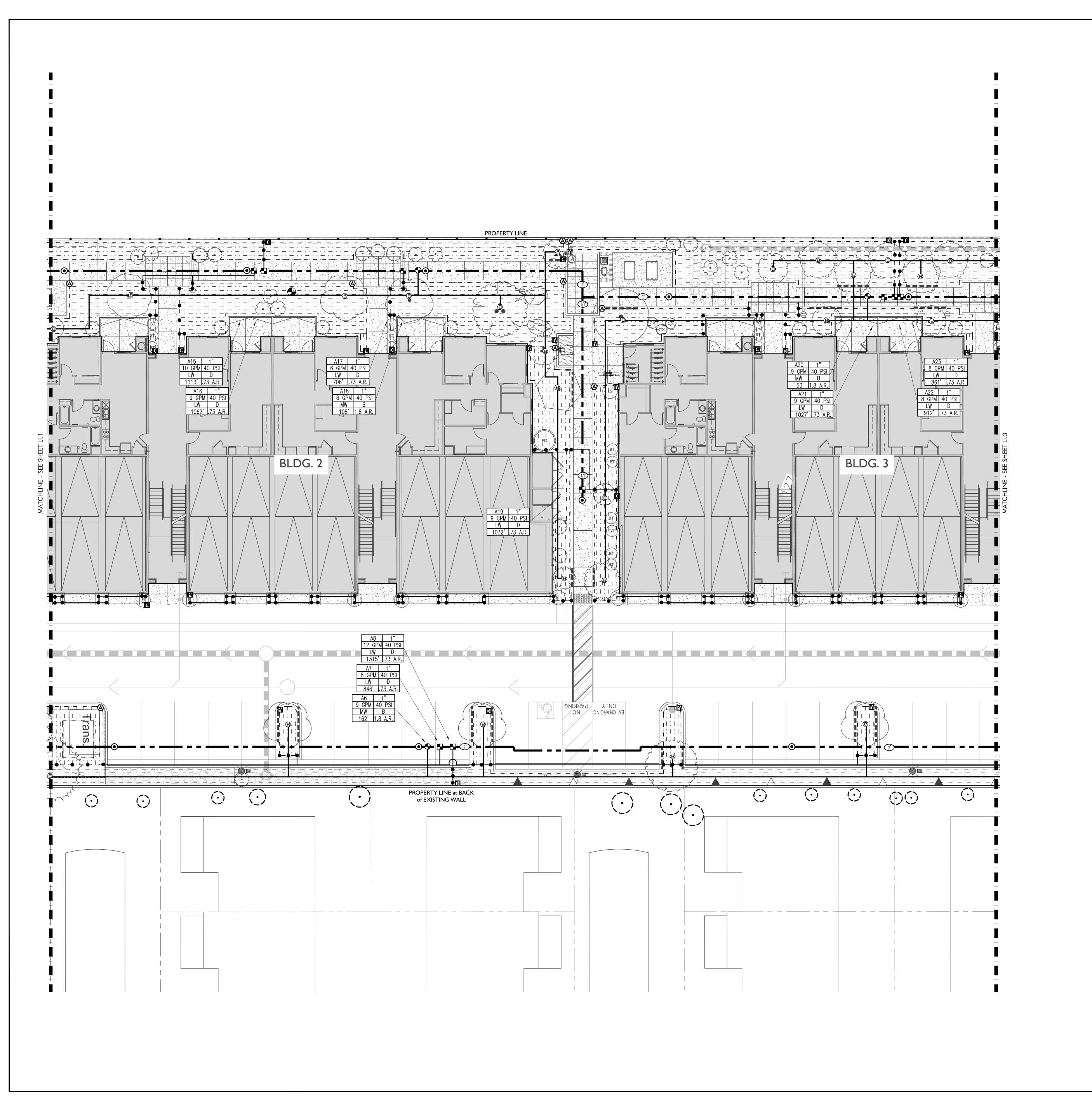
Client:

## MILESTONE HOUSING GROUP

481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030

Drawn By: NL Checked By: MS Plan Date: 06.02.2021

Scale: See Sheet



NOTE 1:
EMITTERS, BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING AND BUILDING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER.
EMITTERS AND DRIP MANIFOLDS SHALL BE ALIGNED WITH SHRUBS AND TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.
CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

NOTE 2: MAINLINE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL MAINLINE LOCATION TO BE A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND

SLEEVING TO EXTEND MINIMUM 12 INCHES BEYOND PAVING.

SLEEVES SHOWN FOR MAJOR CROSSING FOR CLARITY ONLY. ALL PIPING AND WIRE SHALL BE SLEEVED UNDER PAVING. ALL SLEEVES TO BE MINIMUM 2X DIAMETER OF PIPE OR WIRE DIAMETER INSIDE. WIRES SHALL BE INSTALL IN SLEEVE SEPARATE FROM PIPE SLEEVE. ALL MAINLINE SHALL BE ACCOMPANIED WITH A MINIMUM 2-INCH DIAMETER WIRE SLEEVE.

#### **VALVE LOCATION NOTE:**

OTHER OBSTACLES TYP.

ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THIS DRAWING ARE APPROXIMATE. THE IRRIGATION CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. MINOR MODIFICATIONS OF ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN THE OWNER'S AUTHORIZED REPRESENTATIVE'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL, UNLESS OTHERWISE DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE, ALL VALVES SHALL BE INSTALLED AS SHOWN IN SHRUB PLANTING AREAS.

SCH40 PVC LA	ATERAL PIPE	SIZE CHART
PIPE SIZE	GALLONAGE	Ft./Sec.
3/4"	0-5	0.63-3.16
1"	6-9	2.31-3.47
11/4"	10-20	2.21-4.41
11/2"	21-28	3.38-4.52
2"	29-46	2.80-4.48
21/2"	47-65	3.21-4.44

03/15/21 100% DESIGN DEVELOPMENT

Revisions:



507 30th Street Newport Beach, CA 92663

e mjs-la.com

949.675.9964

NOT FOR CONSTRUCTION

Project:

# ACME FAMILY APARTMENTS

1905 &1885

SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

Client:

## MILESTONE HOUSING GROUP

481 N. SANTA CRUZ AVENUE LOS GATOS, CA 95030

Stamp:



Job No: 
Drawn By: NL

Checked By: MS
Plan Date: 06.02.2021

Scale: See Sheet

eet No.:

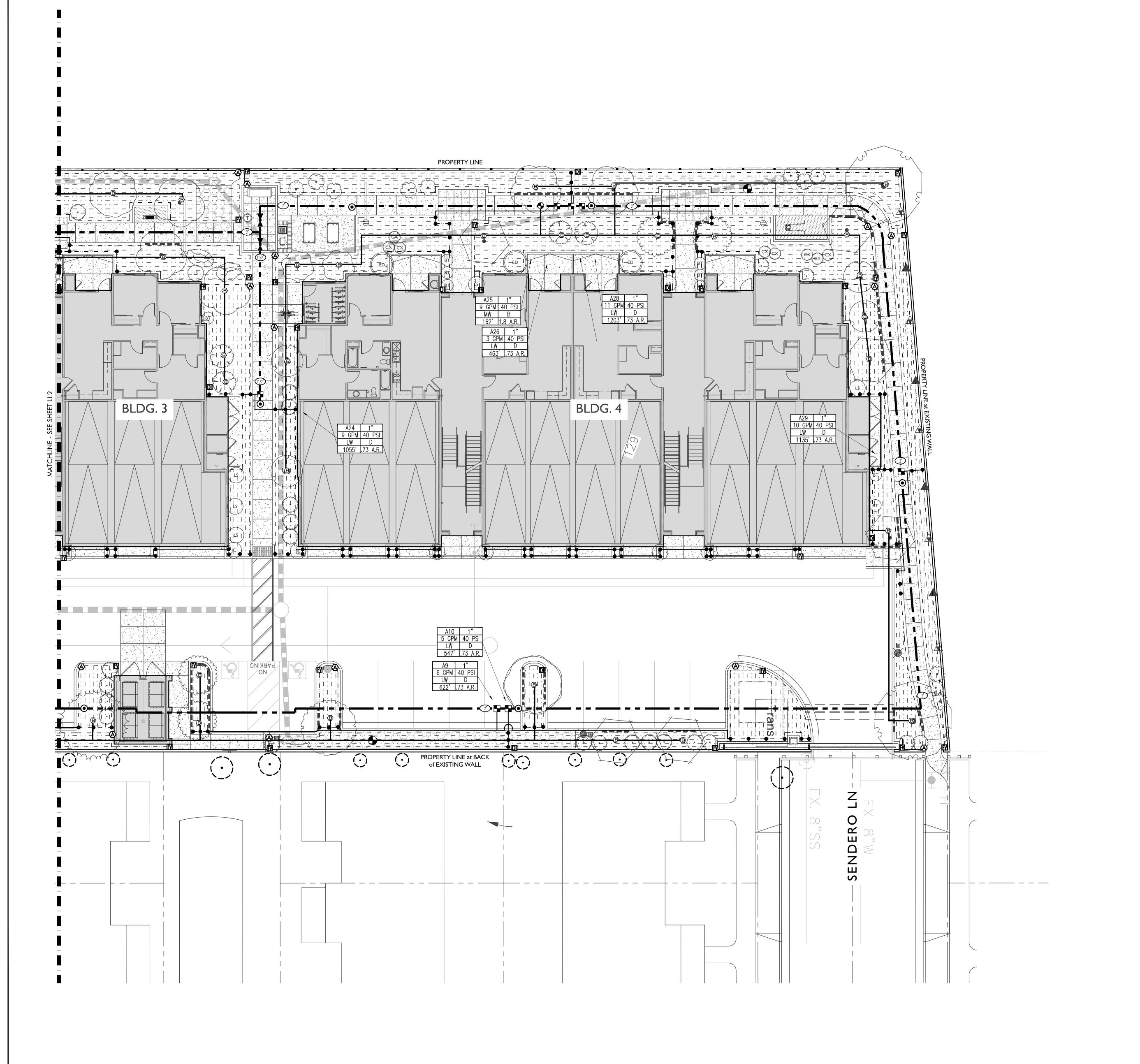
LI.2

Plan Status:
CONSTRUCTION
DOCUMENTS

SCALE: I" = 10'

KEY MAP

N.T.



EMITTERS, BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING AND BUILDING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER. EMITTERS AND DRIP MANIFOLDS SHALL BE ALIGNED WITH SHRUBS AND TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

MAINLINE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL MAINLINE LOCATION TO BE A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP.

SLEEVES SHOWN FOR MAJOR CROSSING FOR CLARITY ONLY. ALL PIPING AND WIRE SHALL BE SLEEVED UNDER PAVING. ALL SLEEVES TO BE MINIMUM 2X DIAMETER OF PIPE OR WIRE DIAMETER INSIDE. WIRES SHALL BE INSTALL IN SLEEVE SEPARATE FROM PIPE SLEEVE. ALL MAINLINE SHALL BE ACCOMPANIED WITH A MINIMUM 2-INCH DIAMETER WIRE SLEEVE. SLEEVING TO EXTEND MINIMUM 12 INCHES BEYOND PAVING.

#### **VALVE LOCATION NOTE:**

ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THIS DRAWING ARE APPROXIMATE. THE IRRIGATION CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. MINOR MODIFICATIONS OF ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN THE OWNER'S AUTHORIZED REPRESENTATIVE'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL, UNLESS OTHERWISE DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE, ALL VALVES SHALL BE INSTALLED AS SHOWN IN SHRUB PLANTING AREAS.

SCH40 PVC LATERAL PIPE SIZE CHART				
GALLONAGE	Ft./Sec.			
0-5	0.63-3.16			
6-9	2.31-3.47			
10-20	2.21-4.41			
21-28	3.38-4.52			
29-46	2.80-4.48			
47-65	3.21-4.44			
	GALLONAGE 0-5 6-9 10-20 21-28 29-46			

LANDSCAPE ARCHITECTURE

Issued for:

Revisions:

03/15/21 100% DESIGN DEVELOPMENT

507 30th Street Newport Beach, CA 92663 <del>3</del> 949.675.9964

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NOT FOR CONSTRUCTION

Project:

## **ACME FAMILY APARTMENTS**

1905 &1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

## MILESTONE HOUSING GROUP

481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030

Drawn By: NL Checked By: MS

Plan Date: 06.02.2021 Scale: See Sheet

IRRIGATION PLAN

Sheet No.:

Plan Status:
CONSTRUCTION DOCUMENTS

KEY MAP SCALE: I" = 10'

SYMBOL   MFR.   MODEL NO. / DESCRIPTIO	N					DETAIL
TREE / PALM IRRIGATION		<u>GPM</u>	RADIUS	<u>PSI</u>	PREC. RATE	
HUNTER PROS-06-PRS30-CV, W/ MSBN NOTE: SINGLE SYMBOL ON PLANS REPR (2) BUBBLERS REQUIRED FOR 24" BOX T (3) BUBBLERS REQUIRED FOR 36" BOX T (4) BUBBLERS REQUIRED FOR PALMS AN	ESENTS MINIMUM TWO (2) BUBBLERS PER TREE REES AND SMALLER REES	.25 (.50) E	N/A	30	2.5	LI.6/F

SUBSUF	RFACE S	SHRUB IRRIGATION	<u>PSI</u>	
	HUNTER	SHRUB PLANTING AREAS: LINES SHOWN ARE A DIAGRAMMATIC HATCH PATTERN ONLY.  SUB-SURFACE DRIP TUBING, PRESSURE COMPENSATING WITH CHECK VALVE, MODEL HDL-06-18-pc-CV (0.60 GPH EMITTERS, 18" ON CENTER). INSTALL TUBING ROWS MAXIMUM OF 16"-18" APART IN SHRUB AREAS. FOR LARGE SLOPES, INSTALL PARALLEL TO SLOPE AT ALL TIMES. CONTRACTOR SHALL DETERMINE ACTUAL ROW SPACING IN THE FIELD AFTER REVIEW OF PLANT SPACING FOR EACH PLANTER. EACH AND EVERY SHRUB SHALL RECEIVE WATER FROM A MINIMUM OF TWO INLINE EMITTERS. AREAS OF TIGHTLY SPACED GROUNDCOVER WILL REQUIRE CLOSER ROW SPACING. FOR ANY 'SINGLE' OR' DOUBLE' ROW TYPE PLANTINGS, INSTALL DRIP TUBING ON BOTH SIDES OF THE SHRUB ROW TO IRRIGATE SHRUBS ON EACH SIDE. ALL TUBING SHALL BE INSTALLED 6" BELOW FINISH SOIL GRADE ANCHORED WITH 9" GALVANIZED WIRE STAKES, INSTALLED FOUR FEET O.C. (JUTE MESH OR OTHER STEEL 'U' STAKES SHALL NOT BE USED OR INSTALLED AT ANY TIME). CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK AND BEFORE BACKFILLING THAT FINAL LAYOUT AND SPACING WILL PROVIDE ADEQUATE WATER TO ALL PLANTS. CONTACT HUNTER REPRESENTATIVE, CHRIS ROESINK, (760) 703-2474 FOR ADDITIONAL INFORMATION.	40	LI.7/D,E,H,I,L
	HUNTER	MODEL PLD-LOC CONNECTION FITTINGS BETWEEN PVC LATERAL LINES AND DRIPLINE TUBING FOR CENTER FEED SYSTEMS: PLD-LOC 050, 1/2" SCH 40 PVC TEE WITH 1/2" THREADED OUTLET AND SCH 80 RISER. CONNECTION FITTINGS BETWEEN PVC SUPPLY OR EXHAUST HEADER PIPE AND DRIPLINE TUBING: PLD-LOC 050 WITH 1/2 " SCH 40 ELBOW WITH SCH 80 RISER.	40	LI.7/D,E,H,I,L
NO SYMBOL	HUNTER	ALL CONNECTIONS BETWEEN 1/2" DRIPLINE TUBING SHALL BE MADE USING HUNTER BARBED INSERT FITTINGS.		
		<ul> <li>A. FOR ALL AREAS INSTALL PERIMETER TUBING MAXIMUM 9" FROM PERIMETER EDGE FOR GROUNDCOVER AREAS OR AT FIRST LINE OF SHRUBS. INSTALL PARALLEL TO SLOPE AT ALL TIMES. CONTRACTOR SHALL DETERMINE MINIMUM ROW SPACING IN THE FIELD AFTER REVIEW OF PLANT SPACING FOR EACH PLANTER. EACH AND EVERY SHRUB SHALL RECEIVE WATER FROM A MINIMUM OF TWO INLINE EMITTERS. AREAS OF TIGHTLY SPACED GROUNDCOVER WE REQUIRE CLOSER ROW SPACING. FOR ANY 'SINGLE' OR' DOUBLE' ROW TYPE PLANTINGS, INSTALL DRIP TUBING ON BOTH SIDES OF THE SHRUB ROW TO IRRIGATE SHRUBS ON EITHER SIDE. DUE TO SOIL STRATA DIFFERENCES AND POSSIBLE COMPACTION CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK AND BEFORE BACKFILLING THAT THE FINAL LAYOUT AND ROW SPACING WILL PROVIDE ADEQUATE WATER TO ALL PLANTS.</li> <li>B. FOR LARGE SLOPES CONTRACTOR SHALL ALWAYS FOLLOW AND ROUTE, PARALLEL TO GRADE, ANY INLINE DRIP TUBING LAYOUT. ALWAYS LAY DRIPLING ACROSS SLOPE. DIRECTIONAL LAYOUT AS SHOWN IN THE PLANS MAY NOT BE EXACTLY ACROSS SLOPE. HATCH PATTERNS SHOWN IN PLAN'S DRIP ARE ARE DIAGRAMMATICAL ONLY.</li> <li>C. FOR ALL INLINE DRIP TUBING AREAS ON SLOPE THE CONTRACTOR SHALL BE HELD ACCOUNTABLE FOR CREATING A TRIANGULAR WETTING PATTERN ACROSS ANY SLOPE. DO NOT INSTALL TUBING WHERE THE EMITTERS SPACING WHEN INSTALLING TUBING TO CREATE A TRIANGULAR WETTING PATTERN ACROSS THE SLOPE. DO NOT INSTALL TUBING WHERE THE EMITTERS ARE DIRECTLY IN LINE (PERPENDICULAR) WITH EACH OTHER.</li> </ul>	/ILL ES AS	
FV	HUNTER	MODEL AFV-T AUTOMATIC, FOR FLUSHING PVC EXHAUST MANIFOLD PIPE. INSTALL FLUSH VALVE INSIDE 7" ROUND VALVE BOX, AT MINIMUM ONE AT THE END OF EACH AND EVERY DRIPLINE TUBING RUN IN EACH DIRECTION. INSTALL FLUSH VALVES APPROXIMATELY WHERE SHOWN ON PLANS. MULTIPLE FLUSH VALVES MAY BE REQUIRED WITHIN A SINGLE ZONE. INSTALL AT LOCATIONS 18" FROM PAVING FOR EASE OF MAINTENANCE.		LI.7/G
	HUNTER	MODEL: AVR-075 AIR/VACUUM RELIEF VALVE INSTALLED WITH PLD-050-TB-TEE. INSTALL AIR RELIEF ASSEMBLY INSIDE 7" ROUND VALVE BOX AT THE HIGH POINT OF EACH PLANTER. MIN 1 ARV PER 500' OF DISTRIBUTION TUBING. USING AIR RELIEF LATERAL CONNECT AIR RELIEF VALVE TO ALL DRIP LINE LATERALS WITHIN ELEVATED AREA. INSTALL AIR RELIEF VALVES APPROXIMATELY WHERE SHOWN ON PLANS. MULTIPLE ARV'S MAY BE REQUIRED PER RCV WITHIN UNDULATING AREAS, VERIFY QUANTITY AND UNDULATING AREAS PRIOR TO START OF WORK. INSTALL AT LOCATIONS 18" FROM PAVING FOR EASE OF MAINTENANCE.		LI.7/F
DI	HUNTER	ECO-ID: SPRINKLER BODY WITH VISIBLE YELLOW STEM INDICATES ZONE IS IN OPERATION. INSTALL ONE UNIT WITHIN EACH AND EVERY PLANTER WITHIN A ZONE. FOR TREE ZONES INSTALL AT END OF ZONE RUN IN EACH DIRECTION. ATTACH TO POLY OR PVC VIA 1/2" MPT CONNECTION. INSTALL UNIT AT HIGH POINT OF EACH PLANTER OR USE HUNTER'S MANUALLY INSTALLED CHECK VALVE P/N 462237SP.		N/A

IRRIGA	IRRIGATION CONTROLLER AND RELATED EQUIPMENT				
	LUNTED	OTAIN! FOR STEEL WALL MOUNTED OR STATION III NITED LOOPE CONTROLLED. MODEL 10 2002 ON/DED CO WITH DOAM VILDEMOTE ALL OW/O) EVEDA			
	HUNTER	STAINLESS STEEL WALL MOUNTED 32 STATION HUNTER ICORE CONTROLLER, MODEL: IC-3200-SS/PED-SS WITH ROAM XL REMOTE. ALLOW (2) EXTRA AVAILABLE STATIONS MINIMUM INCLUDING MASTER VALVE AND FLOW SENSOR STATIONS. CONTRACTOR SHALL VERIFY EXACT CONTROLLER LOCATION AND CONNECTIONS WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BID OF WORK. CONTACT HUNTER REPRESENTATIVE, CHRIS ROESINK, (760) 703-2474 FOR ADDITIONAL INFORMATION.	LI.7/A		
RS	HUNTER	WIRED ET/ RAIN/ FREEZE SENSOR, MODEL WIRED SOLAR SYNC. INSTALL PER MANUFACTURER'S SPECIFICATION. INSTALL ON BUILDING EVE/ROOF WALL, OR POST. CONTRACTOR SHALL CONFIRM EXACT LOCATION AND MOUNTING PROCEDURES WITH OWNER'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLING SENSOR. INSTALL SENSOR IN OPEN LOCATION WITH 360 DEGREE VIEW OF SKY WITHOUT INTERFERENCE OR INFLUENCE FROM BUILDINGS, TREES, OR OTHER OBSTRUCTIONS SO AS TO NEGATIVELY IMPACT RAINFALL ON THE UNIT, AND WITH EASY ACCESS FOR MAINTENANCE.CONTRACTOR SHALL INSTALL WIRED CONDUIT ALONG BUILDING WALL TO SENSOR. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR SIGNAL AND PROPER OPERATION BETWEEN CONTROLLER AND SENSOR UNIT.	LI.7/A		
NO SYMBOL	N/A	CONTRACTOR SHALL COORDINATE ALL CONNECTIONS, CONDUITS, SWEEPS, SLEEVES, AND CABLE ROUTING WITH GENERAL CONTRACTOR AND ANY AFFECTED ON-SITE TRADES AS REQUIRED THROUGHOUT PROJECT.	N/A		
E	BY OTHERS	120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN. CONTRACTOR SHALL COORDINATE AND VERIFY CONTROLLER WALL MOUNT LOCATION IN FIELD WITH ELECTRICIAN. ELECTRICIAN SHALL ROUTE AND INSTALL ALL CONDUIT AND CONDUCTORS TO WITHIN THE CONTROLLER WALL MOUNT LOCATION. IRRIGATION CONTRACTOR SHALL CONNECT IRRIGATION CONTROLLER TO ELECTRICAL STUB-OUT. CONTROLLER CIRCUIT SHALL BE SUPPLIED FROM A DEDICATED BREAKER FROM THE POWER SOURCE.	N/A		

#### PIPE SIZE CHART LEGEND

LATERAL PIPE SIZING CHART				
0 TO 5	GPM	3/4" SCH. 40 PVC PIPE		
5 TO 10	GPM	1" SCH. 40 PVC PIPE		
10 TO 15	GPM	1-1/4" SCH. 40 PVC PIPE		
15 TO 25	GPM	1-1/2" SCH. 40 PVC PIPE		
25 TO 35	GPM	2" SCH. 40 PVC PIPE		
35 TO 50	GPM	2-1/2" SCH. 40 PVC PIPE		

DRIPLINE INTAKE/EXHAUST HEADER PIPE SIZING CHART		
INTAKE/EXHAUST HEAD	ER MINIMUM SIZE OF 3/4 INCH.	
FLOW RANGE	MINIMUM SIZE OF EXHAUST HEADER	
0 THROUGH 5 GPM	MINIMUM SIZE SHALL BE 3/4 INCH	
6 THROUGH 10 GPM	MINIMUM SIZE SHALL BE 1 INCH	
11 THROUGH 15 GPM	MINIMUM SIZE SHALL BE 1-1/4 INCH	
16 THROUGH 25 GPM	MINIMUM SIZE SHALL BE 1-1/2 INCH	
26 THROUGH 50 GPM	MINIMUM SIZE SHALL BE 2 INCH	
NOTE: CONTRACTOR SH	HALL SIZE ALL DRIPLINE	
	ERS PER PIPE SIZING CHART, IN NO	
INSTANCE SHALL PIPE S	SIZE EXCEED DESIGNATED GPM RANGE.	

DETAIL SYMBOL MFR. MODEL NO. / DESCRIPTION IRRIGATION UTILITIES CONNECTION TO 1" WATER METER AND 1-1/2" SERVICE LINE. CONTRACTOR SHALL SUPPLY ALL HARDWARE AND FITTINGS REQUIRED TO CONNECT IRRIGATION MAINLINE TO METER. CONTRACTOR SHALL VERIFY METER LOCATION, SIZE, SERVICE LINE SIZE, AND STATIC WATER PRESSURE BEFORE COMMENCING WORK. LI.6/G 1" REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY: MODEL 825YA, INSTALL WITH WYE STRAINER #650A. INSTALL CENTERED ON A 30"X36"X4" POURED-IN-PLACE CONCRETE PAD. UNIT TO BE INSTALLED WITHIN V.I.T. STAINLESS STEEL ENCLOSURE. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION. SEE PRESSURE CALCULATION. BACKFLOW ASSEMBLY ENCLOSURE: MODEL SBBC-22SS. INSTALL ON CONCRETE PAD WITH BF ASSEMBLY CENTERED. CONCRETE PAD TO EXTEND NO SYMBOL V.I.T. LI.6/G 6" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE. REFER TO MANUFACTURER'S INSTALLATION DETAIL AND SPECIFICATIONS FOR ADDITIONAL INSTALLATION INFORMATION. HUNTER IBV-101G-FS 1" MASTER CONTROL VALVE: NORMALLY CLOSED. INSTALL PER MANUFACTURERS SPECIFICATIONS LI.6/B HUNTER HFS-FCT-100, 1" FLOW SENSOR. INSTALL AND WIRE TO CONTROLLER PER MANUFACTURER'S SPECIFICATIONS. LI.6/C MAINLINE ISOLATION VALVE: MODEL VXX101N-SC. PVC <u>SLO-CLOSE</u> FULL BLOCK TRUE UNION 'SOCKET' BALL VALVE WITH EPDM O-RINGS. VALVE TO LI.6/E MATCH MAINLINE SIZE. MANIFOLD ISOLATION VALVE: SLO-CLOSE FULL BLOCK TRUE UNION 'SOCKET' PVC BALL VALVE WITH EPDM O-RINGS, MODEL VXX101N-SC. NO SYMBOL LASCO LI.6/E CONTRACTOR SHALL INSTALL ALL RCV'S/QCV'S ON MANIFOLDS. VALVE TO MATCH MANIFOLD SIZE. VALVE MANIFOLDS WITH ISOLATION VALVE ARE NOT SHOWN ON PLANS FOR CLARITY. CONTRACTOR SHALL INSTALL MANIFOLDS PER DETAIL. HUNTER 3/4" QUICK COUPLER VALVE: MODEL HQ-3RC. CONTRACTOR SHALL SUPPLY 3 QC KEYS, MODEL HK-33 WITH ARROWHEAD BRASS (CHAMPION) UPWARD LI.6/D 3/4"X 3/4" BENT-NOSE HOSE BIB, MODEL 975, ATTACHED. CONTRACTOR SHALL TURN OVER KEYS TO OWNER'S REPRESENTATIVE AT COMPLETION OF MAINTENANCE PERIOD. HUNTER ICV-101G-FS OR ICV-151G-FS, SERIES (1"OR 1-1/2") PLASTIC REMOTE CONTROL VALVE, SEE SIZE AS SHOWN ON PLAN. LI.7/B,K HUNTER ICZ-101-40 / ICZ-101LF-40 / ICZ-151XL-40, SERIES (1" OR 1-1/2") DRIP CONTROL ZONE KIT, SEE SIZE AS SHOWN PLAN. LI.6/H; INSTALL ICZ-101LF-40, 1" VALVE FOR GPM DEMANDS 0.5 - 14 GPM. LI.7/B,K INSTALL ICZ-101-40, 1" VALVE FOR DEMANDS 15 - 20 GPM. INSTALL ICZ-151XL-40, 1-1/2" VALVE FOR DEMANDS 20 GPM AND GREATER. EZ-003-CX-CBV-250-FERTI-MAXX STARTER-25, 2.5 GALLON FERTILIZING SYSTEM WITH 90 DAY SUPPLY OF 25 LB BAGS STARTER FERTILIZER. LI.6/I USE ALL EZ FLO FITTINGS "CBV" AS NEEDED. INSTALL IN A 10" X 12" VALVE BOX. IRRIGATION PIPE/SLEEVE AS APRVD PVC PIPE, SCH 40, 3/4" - 2", AS LATERAL LINES. 12" BELOW GRADE. SEE 'PIPE SIZE TABLES' FOR SIZES. LI.7/J NO SYMBOL AS APRVD PVC PIPE, SCH 40, AS DRIP MANIFOLD PIPE (HEADERS/FOOTERS), MINIMUM SIZES FOR SUB-SURFACE DRIP ZONES: LI.7/J USE 3/4" PIPE: FOR INDIVIDUAL, OR CONNECTED PLANTERS WITHIN A ZONE, WITH A TOTAL OF 460' OR LESS TOTAL LIN. FT. TUBING USE 1" PIPE: FOR INDIVIDUAL, OR CONNECTED PLANTERS WITHIN A ZONE, WITH 461'-1050' TOTAL LIN. FT. TUBING USE 1-1/4" PIPE: FOR INDIVIDUAL, OR CONNECTED PLANTERS WITHIN A ZONE, WITH 1051'-2250' TOTAL LIN. FT. TUBING USE 1-1/2" PIPE: FOR INDIVIDUAL, OR CONNECTED PLANTERS WITHIN A ZONE, WITH 2251'-3750' TOTAL LIN. FT. TUBING CONNECTION LOCATION SYMBOL OF PVC LATERAL PIPE TO DRIPLINE HEADER AND/OR FOOTER. CONTRACTOR SHALL USE APPROPRIATE FITTINGS AS N/A REQUIRED. PVC PIPE SCH 40, 3/4" - 1-1/2", AS DRIPLINE HEADER/FOOTER, 12" BELOW GRADE. AS APRVD PVC PIPE, SCH 40, 1/2" - 1-1/2", (THICK LINE) AS LATERAL LINES FOR TREE ZONES ONLY. 12" BELOW GRADE. SEE PLAN FOR SIZES. LI.7/J AS APRVD PVC PIPE, SCH 40, AS MAINLINES, 24" BELOW GRADE. REFER TO PLAN FOR SIZE. NO SYMBOL AS APRVD PVC PIPE, SCH 40, SIZE AS REQUIRED, FOR RCV/QCV MANIFOLDS, 18" BELOW GRADE. MANIFOLDS AND PIPE ARE NOT SHOWN ON PLAN FOR CLARITY. MANIFOLD PIPE SIZE SHALL BE SAME AS LARGEST LATERAL SIZE IN MANIFOLD. USE 1-1/4" FOR QCV MANIFOLD. AS APRVD PIPE AND WIRE SLEEVES, PURPLE PVC PIPE, SCH 40, MINIMUM TWICE THE DIAMETER OF PIPE AND WIRE CARRIED, MINIMUM 1-1/2" FOR WIRE. PLACE SLEEVES LI.7/J BELOW ALL DRIVEWAYS, WALKWAYS, ANY PAVING, HARDSCAPE, ETC, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. ALL SLEEVES REQUIRED MAY NOT SHOWN ON PLAN FOR DRAWING CLARITY.

## IRRIGATION VALVE IDENTIFICATION

IRRIGATION MISCELLANEOUS

NO SYMBOL

NO SYMBOL

NO SYMBOL

NO SYMBOL

NO SYMBOL

NO SYMBOL

CONTROLLER LETTER / VALVE NUMBER — A2 1.5" — VALVE SIZE

GALLONS PER MINUTE G.P.M. — 16 GPM 30 PSI.

HYDROZONE PLANT FACTOR — LW D — HYDROZONE / IRRIGATION TYPE - SEE

LANDSCAPE HYDROZONE AREA — 2000' .73 A.R.

SQUARE FOOTAGE — APPLICATION RATE IN INCHES PER HOUR

PVC SCH 80 FITTINGS MUST BE USED ON ALL SOLVENT WELD MAINLINE FITTINGS, 2-INCH AND LARGER. WHEN A

IRRIGATION WIRE #14 AWG UF DIRECT BURIAL (U.L. APPROVED) FOR RCV 'CONTROL' WIRES IRRIGATION WIRE #14

FITTING HAS A THREADED FEMALE OR MALE COMPONENT THE FITTING SHALL ALWAYS BE PVC SCH 80. ALL

RAIN BIRD MODELS VB-STD, VB-JMB, VB-SPR, VB-10RND, VB-6RND IRRIGATION VALVE BOXES FOR IRRIGATION EQUIPMENT

T. CHRISTY TA-DT-3-BLU 3" WIDE METALLIC POTABLE WATER DETECTABLE MARKER TAPE SHALL BE INSTALLED 6" ABOVE ALL

T. CHRISTY ALL REMOTE CONTROL VALVES SHALL BE OUTFITTED WITH A ID TAG INDICATING THE CONTROLLER AND VALVE

#### HYDROZONE LEGEND

Hydrozone Number

(1) Drip - Low Water / Plants
(2) Drip - Moderate Water / Plants
(3) Rotator - Low Water / Plants
(4) Rotor - Low Water / Plants
(5) Bubbler - Low Water / Trees
(6) Bubbler - Moderate Water / Trees
(7) Plant Factor (Water Use) - from WUCOL Selected based on type of plants in hydrom VLW = 0.1 - Very Low Water Use Plants
(Water Use) - from WUCOL Selected based on type of plants in hydrom VLW = 0.1 - Very Low Water Use Plants
(Water Use) - from WUCOL Selected based on type of plants in hydrom VLW = 0.1 - Very Low Water Use Plants
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(Water Use) - from WUCOL Selected based on type of plants in hydrom VLW = 0.1 - Very Low Water Use Plants
(Water Use) - from WUCOL Selected based on type of plants in hydrom VLW = 0.1 - 0.3 - Low Water Use Plants
(Water Use) - from WUCOL Selected based on type of plants in hydrom VLW = 0.1 - 0.3 - Low Water Use Plants
(Water Use) - from WUCOL Selected based on type of plants in hydrom VLW = 0.1 - 0.3 - Low Water Use Plants
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(Water Use) - from WUCOL Selected based on type of plants in hydrom VLW = 0.1 - 0.3 - Low Water Use Plants
(Water Use) - from Wucol Selected based on type of plants
(Water Use) - from Wucol Selected based on type of

THREADED PLASTIC NIPPLES SHALL BE PVC SCH 80 TYPE

IRRIGATION MAINLINES

NUMBER.

WIRE SPLICE CONNECTOR, MODEL DBR/Y-6 FOR RCV WIRE CONNECTIONS

AWG UF DIRECT BURIAL (U.L. APPROVED) FOR RCV 'COMMON' WIRES

Plant Factor (Water Use) - from WUCOLS
Selected based on type of plants in hydrozones:

VLW = 0.1 - Very Low Water Use Plants
LW = 0.1 - 0.3 - Low Water Use Plants
MW = 0.4 - 0.6 - Moderate Water Use

Plants

B = Bubbler .77

D = Drip .81

Revisions:

03/15/21 100% DESIGN DEVELOPMENT

Issued for:



507 30th StreetNewport Beach, CA 92663949.675.9964

mjs-la.com

NOT FOR CONSTRUCTION

Project:

# ACME FAMILY APARTMENTS

1905 & 1885

SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

Client:

N/A

LI.7/B,K

LI.7/C

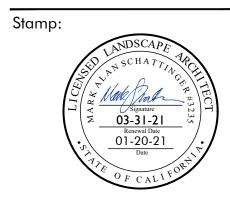
LI.7/J

N/A

LI.6/A,H

## MILESTONE HOUSING GROUP

481 N. SANTA CRUZ AVENUE LOS GATOS, CA 95030



Job No: 
Drawn By: NL

Checked By: MS

Plan Date: 06.02.2021

Scale: See Sheet

IRRIGATION LEGEND

eet No.:

LI.4

#### **GENERAL IRRIGATION NOTES**

EQUIPMENT / P.O.C. NOTES:

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE AN ORIGINAL SET OF THESE PRINTED IRRIGATION PLANS FOR BIDDING AND CONSTRUCTION.
- 2. XEROX COPIES OF THESE PLANS ARE NOT ALLOWED FOR BIDDING AND CONSTRUCTION AS THEY MAY NOT SHOW IRRIGATION SYMBOLS, LINE WEIGHTS, OR LINE TYPES CLEARLY.
- 3. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL VERIFY SITE CONDITIONS, PROPERTY LINES, DIMENSIONS AND THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SITE CONDITIONS PRIOR TO BIDDING AND COMMENCING WORK.
- 5. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.6. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN
- BEFORE BEGINNING WORK.

  7. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE
- 7. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BI INSTALLED WITHIN PLANTING AREAS.
- 8. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SYMBOL SIZES ARE SHOWN FOR DESIGN CLARITY ONLY. CONTRACTOR SHALL MEASURE ALL DISTANCES AND SPACING FROM CENTER OF SYMBOLS ON THE PLAN AND TRANSFER THOSE DISTANCES TO THE FIELD USING A PROPER MEASURING DEVICE SUCH AS A MEASURE TAPE OR WHEEL.
- 9. THE CONTRACTOR UNDERSTANDS IT IS THE INTENT OF THESE DRAWINGS TO IRRIGATE ALL NEW PLANT MATERIAL, AND EXISTING PLANT MATERIAL AS REQUIRED, UNLESS SPECIFICALLY NOTATED IN THE DRAWINGS THAT A PLANT MATERIAL IS A NON-IRRIGATED TYPE. WHEN PLANT MATERIAL IS SHOWN IN THESE DRAWINGS TO NOT HAVE IRRIGATION SUBSCRIBED TO IT, THE CONTRACTOR SHALL CONTACT THE OWNER'S AUTHORIZED REPRESENTATIVE AND/OR THE LANDSCAPE ARCHITECT THROUGH THE PROJECT 'REQUEST FOR INFORMATION' (R.F.I.) PROCESS FOR CLARIFICATION AND FURTHER DIRECTION. IT IS THE INTENT OF THESE DRAWINGS THAT ALL NEW PLANT MATERIAL RECEIVE A MINIMUM OF 100% IRRIGATION COVERAGE FROM TWO ADJACENT SPRINKLERS WHEN OVERHEAD SYSTEMS ARE USED, AND AT LEAST ONE OR MORE EMITTER POINTS PER PLANT, AS DIRECTED IN THE DRIP EMITTER LEGEND, WHEN IRRIGATION DRIP SYSTEMS ARE USED. IF THE CONTRACTOR FAILS TO NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE AND/OR THE LANDSCAPE ARCHITECT OF A DISCREPANCY THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR IRRIGATION TO THE PLANT MATERIAL. IRRIGATION SHALL BE OF THE SAME TYPE AS THE SURROUNDING AREA. ULTIMATELY, IT IS RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE IRRIGATION TO EVERY PLANT THAT IS INSTALLED UNDER HIS SUPERVISION.
- 10. VERIFY THE ACTUAL STATIC STREET WATER PRESSURE IN THE FIELD AT THE P.O.C. CONNECTION POINT PRIOR TO STARTING WORK. THE STATIC PRESSURE SHALL READ NO LESS THAN 60 PSI OR NO GREATER THAN 90 PSI AT THE P.O.C. CONNECTION. SHOULD THE CONTRACTOR FAIL TO FIELD VERIFY THE STATIC WATER PRESSURE INFORMATION AND NOTIFY THE LANDSCAPE ARCHITECT OF SAID PRESSURE, THEN ANY ADDITIONAL COSTS INCURRED BY CHANGES REQUIRED TO BE MADE TO THE IRRIGATION SYSTEM BECAUSE OF LOW SYSTEM PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 11. VERIFY THE ACTUAL LOCATION AND SIZE OF WATER METER AND STATIC WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE P.O.C INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL P.O.C. INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT. SHOULD THE CONTRACTOR FAIL TO FIELD VERIFY THE P.O.C. INFORMATION AND NOTIFY THE ABOVE, ANY ADDITIONAL COSTS INCURRED BY CHANGES REQUIRED TO BE MADE TO THE IRRIGATION SYSTEM BECAUSE OF LOW OR HIGH PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 12. P.O.C. EQUIPMENT LAYOUT INCLUDING, BUT NOT LIMITED TO, IRRIGATION WATER METER, BACKFLOW ASSEMBLY, MASTER VALVE, AND FLOW SENSOR IS DIAGRAMMATIC DUE TO THE SCALE OF THE DRAWING. LOCATIONS MAY BE SHOWN WITHIN PAVING AND/OR ORIENTED IN A CERTAIN DIRECTION FOR CLARITY ONLY. PLAN DOES NOT ACCOUNT FOR EQUIPMENT BY OTHERS WITHIN VICINITY OF P.O.C. CONTRACTOR SHALL VERIFY SPECIFIC LAYOUT ORIENTATION AND ACTUAL EQUIPMENT LOCATIONS WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF EQUIPMENT.
- 13. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTION DEVICE AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONTACT REPRESENTATIVE BEFORE COMMENCING WORK.
- 14. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT WHERE SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT CONDITIONS EXIST, WHICH ARE NOT INDICATED ON THE PLANS. SUCH CONDITIONS MAY HAVE BEEN UNKNOWN AND NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND/OR OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK. SHOULD THE CONTRACTOR FAIL TO NOTIFY THE ABOVE, ANY ADDITIONAL COSTS INCURRED BY REQUIRED CHANGES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
- 15. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL OWNER, COUNTY, AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
  CONTROLLER / WIRE NOTES:
- 16. CONTRACTOR SHALL REFER TO IRRIGATION LEGEND FOR CONTROLLER TYPE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL P.O.C. SHALL BE CONFIRMED WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING
- 17. CONTRACTOR SHALL COORDINATE AND VERIFY CONTROLLER PEDESTAL LOCATION IN FIELD WITH ELECTRICIAN FOR
- CONTROLLER POWER CIRCUIT ROUTING.

  18. CONNECTION OF IRRIGATION CONTROLLER TO THE PROVIDED ELECTRICAL STUB-OUT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR AND INSTALLATION THEREOF SHALL BE PER LOCAL CODE REQUIREMENTS. CONTRACTOR MAY CHOOSE, IF SO DESIRED, TO SUB THIS WORK TO THE ELECTRICAL CONTRACTOR.
- 19. CONTROLLER POWER SOURCE SHALL BE SUPPLIED FROM A 'CONTROLLER DEDICATED' CIRCUIT BREAKER.
- 20. CONTRACTOR SHALL ROUTE **TWO** ADDITIONAL 'CONTROL' WIRES AND **ONE** ADDITIONAL 'COMMON' WIRE ALONG ENTIRE MAINLINE ROUTE AND ALONG EACH AND EVERY LEG OF MAINLINE ROUTE. ROUTE WIRES INTO EACH AND EVERY RCV VALVE BOX. WHERE VALVE BOXES ARE GROUPED INTO A MANIFOLD, ROUTE WIRES INTO FIRST VALVE BOX ON MANIFOLD ONLY. SPARE 'CONTROL' WIRES SHALL BE OF A DIFFERENT COLOR THAN THOSE USED ON THE PROJECT. 'COMMON' WIRE SHALL BE OF A DIFFERENT COLOR THAN THAT USED ON THE PROJECT, OR WHITE WITH A STRIPE.
- 21. CONTRACTOR SHALL INSTALL FLOW SENSOR/METER WIRE WITHIN 1" SCH 40 PVC ELECTRICAL CONDUIT. SYSTEM GROUNDING NOTES:
- 22. CONTRACTOR SHALL BE RESPONSIBLE FOR GROUNDING CONTROLLER PER MANUFACTURERS REQUIREMENTS.
  CONTRACTOR SHOULD CONTACT CONTROLLER MANUFACTURER FOR GROUNDING INSTALLATION INFORMATION. IT SHALL
  BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM AND WORK WITH THE ELECTRICAL CONTRACTOR SO AS TO
  PROVIDE ADEQUATE GROUNDING AS DETERMINED BY CONTROLLER MANUFACTURER.
- 23. CONTRACTOR SHALL USE U.L. APPROVED GROUND ROD AND GROUND PLATE WITH CADWELD 'ONE-SHOT' CONNECTION PROCESS FOR CONNECTING THE #6 AWG GROUND WIRE FROM THE CONTROLLER GROUND LUG TO THE ROD. MAXIMUM GROUND RESISTANCE SHALL BE PER CONTROLLER MANUFACTURERS SPECIFICATIONS, BUT NOT GREATER THAN 10 OHMS. CONTACT VINCE NOLLETTI, PAIGE ELECTRIC, FRESNO, CA (559) 431-2574 FOR ADDITIONAL CONTROLLER GROUNDING INSTALLATION INFORMATION.
- 24. CONTRACTOR SHALL REFER TO DETAILS 'LI.5/F,G' FOR SYSTEM GROUNDING INSTALLATION. CONTACT VINCE NOLLETTI, PAIGE ELECTRIC, FRESNO, CA (559) 431-2574 FOR ADDITIONAL CONTROLLER GROUNDING INSTALLATION INFORMATION. ALSO CONTRACTOR MAY CONTACT CONTROLLER ASSEMBLY MANUFACTURER FOR ADDITIONAL CONTROLLER GROUNDING INSTALLATION INFORMATION.
- RCV / QCV NOTES:
- 25. REMOTE CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THIS DRAWING ARE APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. MINOR MODIFICATIONS OF REMOTE CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE PROJECT DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL, UNLESS OTHERWISE DIRECTED BY THE OWNER, ALL VALVES SHALL BE INSTALLED WITHIN THREE FEET FROM EDGE OF HARDSCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.
- 26. RCV SYMBOL LOCATIONS ARE SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY. TO CONCEAL VALVE BOX LOCATIONS INSTALL EQUIPMENT AWAY FROM BUILDING ENTRANCES AND OTHER AREAS AS DETERMINED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM LOCATIONS WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

- 27. ALL RCV'S AND QCV'S SHALL BE INSTALLED ON A SUB-MAIN MANIFOLD AS SHOWN IN DETAIL 'LI.06/D'. RCV AND QCV SYMBOLS ARE SHOWN DIAGRAMMATICALLY ON TOP OF MAINLINE FOR CLARITY ONLY. PLAN DOES NOT SHOW THE MANIFOLD FOR CLARITY PURPOSES.
- 28. ALL QUICK COUPLER VALVES SHALL TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER VALVES SHALL BE INSTALLED AS SHOWN IN THE INSTALLATION DETAILS. INSTALL QUICK COUPLERS WITHIN 18 INCHES OF HARDSCAPE. CONTRACTOR SHALL TEE OFF OF MAINLINE WITH 1-1/4 INCH MAINLINE PIPE WHERE APPLICABLE TO LOCATE QUICK COUPLER VALVE WITHIN ADJACENT SHRUB OR GROUNDCOVER AREAS AND/OR 18 INCHES FROM HARDSCAPE.

#### PIPE / SLEEVE NOTES

- 29. MAINLINE LAYOUT IS DIAGRAMMATIC DUE TO THE SCALE OF THE DRAWINGS. ROUTING MAY BE SHOWN WITHIN BUILDINGS AND/ORPAVING FOR CLARITY ONLY, ACTUAL MAINLINE LOCATION TO BE WITHIN PLANTER A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP. CONTRACTOR SHALL ADJUST MAINLINE ROUTING TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO TREES, LIGHT POLES, BOLLARDS, FIRE HYDRANTS, DRINKING FOUNTAINS, CONCRETE FOOTINGS, ETC.
- 30. MAINLINE AND/OR LATERAL PIPE ROUTING SHOWN OUTSIDE PROPERTY LINE AND/OR L.O.W. IS DIAGRAMMATIC AND FOR CLARITY ONLY, CONTRACTOR SHALL ROUTE MAINLINE WITHIN PROPERTY LINE AND/OR L.O.W.
- 31. ALL PIPE MATERIAL AND INSTALLATION LABOR REQUIRED FOR MAINLINE OR LATERAL LINE ADJUSTMENTS DUE TO ACCOMMODATIONS IN THE FIELD SHALL BE INCLUDED WITHIN CONTRACTED PRICE AND MAY NOT BE SUBMITTED AS A CHANGE ORDER TO THE ORIGINAL BID.
- 32. NO PVC PIPE MAINLINES SHALL BE ROUTED OR ALLOWED CLOSER THAN 12 FEET FROM ANY TREE TRUNK AT ANY TIME. PIPE ROUTING AS SHOWN ON PLANS IS FOR DIAGRAMMATIC PURPOSES ONLY. WHEN PIPE MUST BE ROUTED CLOSER THAN 12 FEET BECAUSE OF HARDSCAPE CONSTRAINTS OR OTHER OBSTACLES CONTRACTOR SHALL INSTALL MAINLINE PIPE WITHIN SLEEVE WHERE PIPE IS WITHIN 12 FEET OF THE TRUNK AND SO INDICATE THE PIPE ROUTING AND SLEEVE LOCATIONS ON THE AS-BUILT DRAWINGS.
- 33. SLEEVES AND THEIR LOCATIONS ARE DIAGRAMMATICALLY SHOWN FOR CLARITY ONLY. ALL IRRIGATION SLEEVES MAY NOT BE SHOWN FOR CLARITY PURPOSES. CONTRACTOR SHALL INSTALL SLEEVES BELOW ALL PAVING, HARDSCAPE, ETC. AND AS DIRECTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. ALL PIPE UNDER PAVED AREAS SHALL BE INSTALLED IN A SLEEVE, AT MINIMUM TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL SLEEVES TO BE INSTALLED A MINIMUM DEPTH AS SHOWN ON THE PIPE/SLEEVING DETAIL. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- 34. ALL SLEEVE ENDS MUST BE SEALED WITH FOAM SEALANT INSIDE PIPE TO MINIMIZE DEBRIS INTRUSION.
- 35. LATERAL LINES MAY BE SHOWN WITHIN BUILDINGS AND/OR PAVING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER
- 36. ALL CONVENTIONAL CONTROL WIRE UNDER HARDSCAPE AND/OR PAVED AREAS SHALL BE INSTALLED WITHIN A SLEEVE OR CONDUIT, SEE LEGEND FOR TYPE. MINIMUM SIZE: 1-1/2 INCH- FOR UP TO 15 WIRES (#14 GAUGE); 2 INCH- FOR 16-20 WIRES (#14 GAUGE); 3 INCH- FOR 21-55 WIRES (#14 GAUGE). ALL SLEEVES TO BE INSTALLED A MINIMUM DEPTH AS SHOWN ON THE PIPE/SLEEVING DETAIL. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.

#### DRIP/LOW VOLUME SYSTEMS- GENERAL NOTES:

- 37. ALL MAINLINES AND LATERAL LINES SHALL BE THOROUGHLY FLUSHED CLEAN BEFORE DRIP MANIFOLD ASSEMBLIES AND/OR DRIP TUBING CONNECTIONS ARE MADE. ALL DRIP TUBING LINES SHALL BE FLUSHED CLEAN BEFORE BACKFILLING.
- 38. ALL LATERAL LINES FOR DRIP ZONES SHALL BE PVC SCH 40 PIPE.

#### DRIP/LOW VOLUME SYSTEMS- DRIPLINE NOTES:

- 39. DRIPLINE SYSTEMS RUN TIMES SHALL ALWAYS BE PROGRAMMED TO USE THE CONTROLLER'S 'CYCLE AND SOAK' FUNCTION FOR "PULSE IRRIGATION" PROGRAMMING. AFTER DETERMINING TOTAL ZONE RUN TIME CONTRACTOR SHALL BREAK THE RUN TIME INTO A MINIMUM OF 3-4 CYCLES. INEFFICIENT IRRIGATION OCCURS WHEN ONLY ONE CYCLE IS USED. WATER WILL MIGRATE BELOW THE ROOT ZONE OF TURF OR PLANTS VIA 'GRAVITY FLOW'. SHORT RUN TIMES ALLOW WATER TO SPREAD THROUGHOUT AREA MORE EFFICIENTLY.
- 40. ALL DRIPLINE TUBING LAYOUT SHALL FOLLOW AND ROUTE PARALLEL TO GRADE, EXCEPT WHERE A LONGITUDE LAYOUT MAY BE FEASIBLE TO FOLLOW PLANTER LINES WHICH ARE NOT PARALLEL TO GRADE FOR CONSTRUCTIBLE PURPOSES. LAYOUT AS SHOWN IN THE PLANS DOES NOT ALWAYS DEPICT ACTUAL LAYOUT DIRECTION. HATCH PATTERNS OF DRIP AREAS AS SHOWN IN PLAN ARE DIAGRAMMATICAL ONLY.
- 41. DUE TO REQUIREMENT OF MAXIMUM SYSTEM EFFICIENCY ALL DRIPLINE TUBING SHALL LAY LEVEL WITHIN TRENCH. TRENCHES SHALL BE LEVELED ACROSS BOTTOM OF TRENCH, AT NO TIME SHALL BOTTOM OF TRENCH UNDULATE.
- 42. CONTRACTOR SHALL COMPACT ALL DRIPLINE TRENCHES TO 95% SOIL COMPACTION. CONSISTENT COMPACTION IS REQUIRED TO PROVIDE EFFICIENT AND EVEN WATERING OF TURF OR SHRUB PLANT MATERIAL.
- 43. CONTRACTOR SHALL AND IS REQUIRED TO USE THE RAIN BIRD INSERT TOOL, MODEL FITINS-TOOL FOR INSTALLATION OF RAIN BIRD DRIPLINE INSERT FITTINGS. CONTRACTOR SHALL ALWAYS INSERT FITTING UNTIL THE FITTING 'STOP' IS
- 44. FOR DRIPLINE SYSTEMS IN TURF: IT IS RECOMMENDED TO INSTALL ONE OR TWO DRIP LINES AT A TIME DUE TO THE CLOSE PROXIMITY OF THE 12" SPACING OF ADJACENT LINES. INSTALLATION OF ONLY ONE OR TWO LINES ALLOWS FOR PROPER
- TRENCHING AND SOIL COMPACTION THAT IS REQUIRED.

  45. FOR ALL AREAS ON SLOPES INSTALLED WITH DRIPLINE TUBING THE CONTRACTOR SHALL BE HELD ACCOUNTABLE FOR CREATING A TRIANGULAR WETTING PATTERN ACROSS ALL SLOPES. OFFSET THE EMITTERS BY HALF THE EMITTER SPACING WHEN INSTALLING TUBING TO CREATE A TRIANGULAR WETTING PATTERN ACROSS THE SLOPE. DO NOT INSTALL TUBING WHERE THE EMITTERS ARE DIRECTLY IN LINE (PERPENDICULAR) WITH EACH OTHER.

#### DRIP/LOW VOLUME SYSTEMS- POINT SOURCE DRIP NOTES:

- 46. VERIFY THE ACTUAL PLANT QUANTITIES AND SIZES FROM THE LANDSCAPE PLANS PRIOR TO BIDDING OR COMMENCING WORK. CONTRACTOR TO PROVIDE THE QUANTITY OF EMITTERS, BASED ON THE ACTUAL PLANT COUNT WITH REFERRAL TO THE EMITTER TABLE SHOWN IN THE LEGEND.
- 47. CONTRACTOR TO PROVIDE THE QUANTITY OF EMITTERS BASED ON THE ACTUAL SHRUB AND TREE COUNT AND THE EMITTER TABLES SHOWN. ANY REFERENCE TO TOTAL EMITTER QUANTITIES ON THESE PLANS IS FOR DESIGN USE ONLY. VERIFY THE ACTUAL SHRUB AND TREE QUANTITIES AND SIZES FROM THE LANDSCAPE PLANS PRIOR TO BIDDING OR COMMENCING WORK.
- 48. THE EMITTER TABLE IN LEGEND IS ESTIMATED EMITTER QUANTITIES AND FLOWS. CONTRACTOR SHALL INSTALL EMITTERS AS SHOWN IN THE TABLE AT INITIAL INSTALLATION.
- 49. SUB-LATERAL PIPING AS SHOWN IN DETAIL 'LI.5/E' SHALL BE 1/2" SCH 40 PIPE. 'BACKBONE' LATERALS SHALL BE PER PLAN SIZE.

50. FOR MULTI-OUTLET DRIP MANIFOLDS: UNITS SHALL BE ALIGNED WITH TREES AS SHOWN IN THE DETAILS. CONFIRM ALL

- PROPOSED LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

  TREE/PALM DRIP SYSTEM HAS BEEN DESIGNED TO ACCOMMODATE THE LIP-SIZING OF EMITTERS TO COMPENSATE FOR
- 51. TREE/PALM DRIP SYSTEM HAS BEEN DESIGNED TO ACCOMMODATE THE UP-SIZING OF EMITTERS TO COMPENSATE FOR FUTURE PLANT GROWTH. MAINTENANCE PERSONNEL SHALL UPSIZE EMITTERS AND QUANTITIES AS REQUIRED TO PROVIDE ADEQUATE WATER FOR HEALTHY PLANT GROWTH.
- 52. WHEN DIFFERENT SPECIES OF TREES/PALMS ARE TIED TO THE SAME ZONE VALVE CONTRACTOR SHALL BE REQUIRED TO MAKE ADJUSTMENTS TO SIZE OF EMITTERS (FOR QUANTITY OF WATER PURPOSES) FOR EACH SPECIES OF TREEE/PALM IN THE ZONE AS NEEDED TO PROVIDE PROPER AND ADEQUATE AMOUNT OF WATER AS REQUIRED BY EACH SPECIES.

  CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR INFORMATION REGARDING PROPER AND ADEQUATE AMOUNT OF WATER AS REQUIRED BY EACH SPECIES.
- 53. POST PLANT INSTALLATION: IT SHALL BE THE RESPONSIBILITY OF LANDSCAPE CONTRACTOR TO REVISE EMITTER SIZES AS MAY BE NEEDED TO PROVIDE ANY WATER VOLUME ADJUSTMENTS FOR HEALTHY PLANT GROWTH. THIS TASK SHALL BE COMPLETED AFTER THREE WEEKS OF PLANT OBSERVATIONS AFTER INITIAL INSTALLATION AND AGAIN ONE WEEK BEFORE MAINTENANCE PERIOD IS COMPLETED. ALL EMITTER CHANGES AND FINE TUNE ADJUSTMENTS SHALL BE CARRIED OUT AS PART OF THIS PROJECT WITH NO ADDITIONAL COST TO THE OWNER. COMPLETE AFTER CONSULTATION AND REVIEW OF WATER NEEDS WITH THE IRRIGATION CONSULTANT AND LANDSCAPE ARCHITECT.

#### WATER PRESSURE CALCULATION

Irrigation Pressure Calculation					
Meter No:	1				
Minimum Static Water Pressure PSI Required:	67 psi				
Valve No:	A29				
Valve Demand	10 GPM				
Maximum System Demand	12 GPM				
Elevation Change P.O.C. to Highest Head:	0 FT				
Number of Valves Concurrent	1				
<u>Losses:</u>					
1" Water Meter	1.0 psi				
1-1/2" Service line	1.5 psi				
1" RP Backflow Device	12.0 psi				
1" Master Valve	2.5 psi				
1" Flow Sensor	2.0 psi				
Isolation Valves	2.5 psi				
1" R.C.V.	3.0 psi				
750' Feet of 2" Mainline CL 200	2.5 psi				
Fitting Loss 10%	2.7 psi				
Lateral Line Loss 10%	3.0 psi				
Loss to Highest Head	0.0 psi				
Total Losses:	33 psi				
Head Operating Pressure:	34 psi				
Total Pressure Required:	67 psi				
Min. Static Pressure Required:	67 psi				
Residual Pressure:	0 psi				

WATER PRESSURE CALCULATION NOTE:	
OPERATING VELOCITY WILL NOT EXCEED 5 FEET PER	
SECOND.	
A PUMP WILL BE REQUIRED IF THE STATIC WATER	
PRESSURE IS MEASURED IN THE FIELD, IS LESS THAN	
67 PSI AT ANY TIME. SHOULD THE CONTRACTOR FAIL	
TO VERIFY THE POC INFORMATION ANY CHANGES	
REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE	
THE SOLE RESPONSIBILITY OF THE CONTRACTOR.	

#### **1881 WATER CALCULATIONS**

California Water Efficient Landscape Ordinance Worksheet

City: Santa Rosa	ry: Santa Rosa Milestone ACME						
Reference Evapotranspiration (ET <sub>o</sub> )		42.0 Project Type Residential		tial	0.55		
Hydrozone # / Planting	Plant	Irrigation	Irrigation	ETAF	Landscape Area ETAF x		Estimated Total
Description <sup>a</sup>	Factor (PF)	Method <sup>b</sup>	Efficiency (IE) <sup>c</sup>	(PF/IE)	(Sq. Ft.)	Area	Water Use (ETWU) <sup>d</sup>
Regular Landscape Areas			, <del>.</del> ,				
LOW water use-Planting	0.30	Drip	0.81	0.37	8435	3124	81351
MOD water use-Planting	0.40	Drip	0.81	0.49	12652	6248	162695
MOD water use-Trees	0.50	Overhead	0.75	0.67	792	528	13749
				Totals	21879	9900	257795
Special Landscape Areas							
N/A				1	0	0	0
				1	0	0	0
				Totals	0	0	0
					ET	WU Total	257795
			Maximum A	nnual Wa	ater Allowance	(MAWA) <sup>e</sup>	313351
ETAF Calculations						_	
Regular Landscape Areas		_	Average ETA	F for Regu	ılar Landscape		
Total ETAF x Area	9900		Areas must I				
Total Area	21879			-	0.45 or below for		
Average ETAF	0.45		non-residential areas.				
All Landscape Areas							
Total ETAF x Area	9900						
Total Area	21879						
Average ETAF	0.45						
	•	1					

Revisions:

03/15/21 100% DESIGN DEVELOPMENT

Issued for:



507 30th Street Newport Beach, CA 92663949.675.9964

mis-la.com

NOT FOR CONSTRUCTION

Project:

# ACME FAMILY APARTMENTS

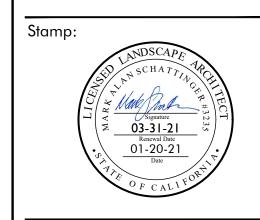
1905 &1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

Client:

## | MILESTONE | HOUSING GROU

481 N. SANTA CRUZ AVENUE LOS GATOS, CA 95030



Job No: 
Drawn By: NL

Checked By: MS

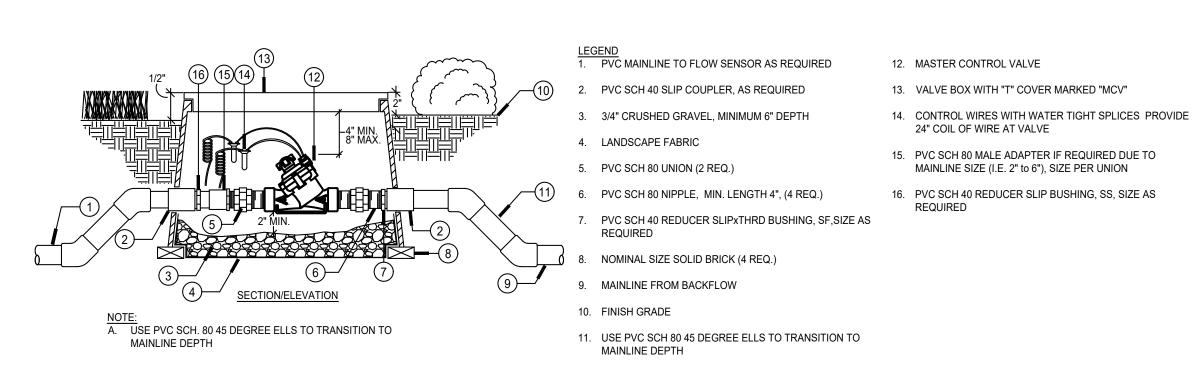
Plan Date: 06.02.2021

Scale: See Sheet

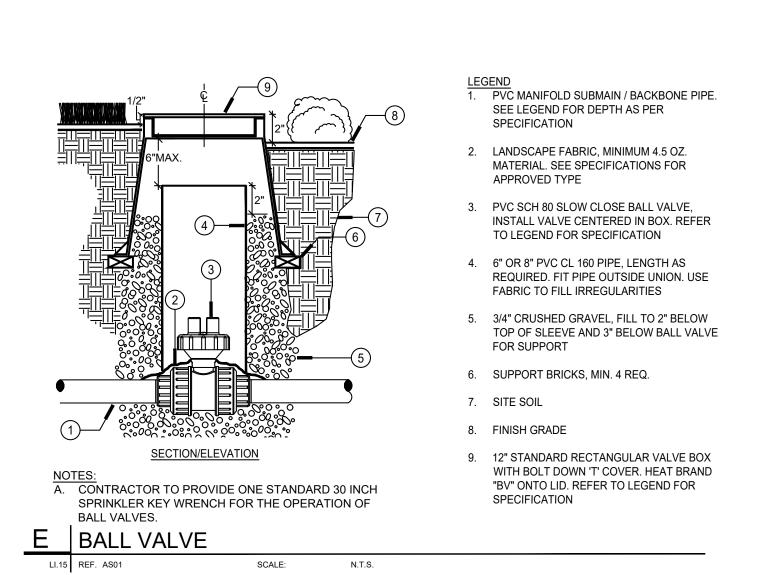
IRRIGATION NOTES & CALCULATIONS

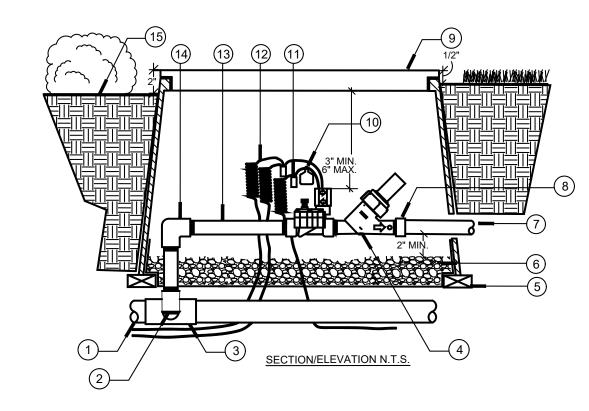
Sheet No.:

LI.5



### MASTER VALVE ASSEMBLY





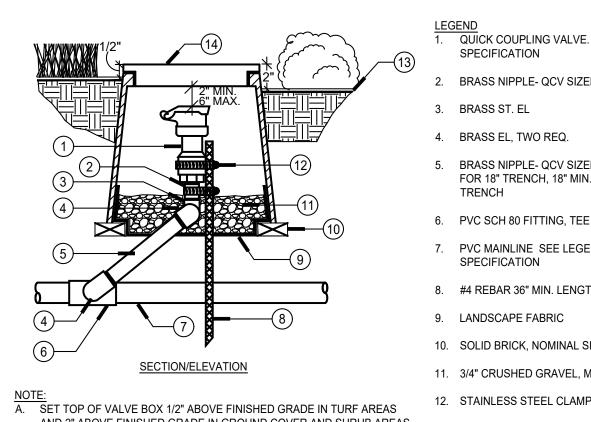
H DRIP SYSTEMS RCV ASSEMBLY

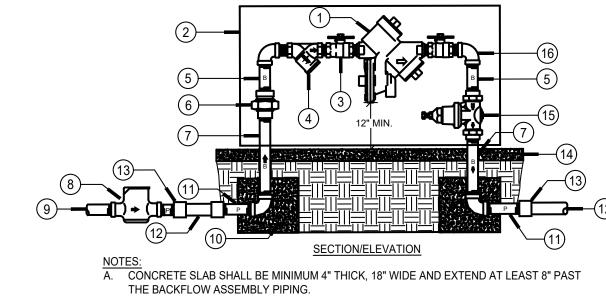
### <u>LEGEND</u>

- 1. PVC MAINLINE PIPE 2. PVC SCH 40 TEE OR ELL
- 3. PVC SCH 80 NIPPLE, (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
- 4. HUNTER ICZ-XXX-40 SERIES DRIP KIT (INCLUDES VALVE, PRESSURE REGULATING AND FILTER (REFER TO LEGEND FOR TYPE)
- 5. BRICK (1 OF 4)
- 6. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 8. PVC SCH 40 FEMALE ADAPTER

7. PVC LATERAL LINE PIPE

- 9. VALVE BOX WITH COVER:
- 10. ID TAG: RAIN BIRD VID SERIES
- 11. WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2) 12. 30-INCH LINEAR LENGTH OF WIRE, COILED
- 13. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED, 1 OF 2)
- 14. PVC SCH 40 ELL
- 15. FINISH GRADE





N.T.S.

- THE SIZE REQUIRED BY THE MANUFACTURER.
- 1. BACKFLOW DEVICE, SEE LEGEND FOR SPECIFICATION 2. BACKFLOW ENCLOSURE, SEE LEGEND FOR SPECIFICATION

QUICK COUPLER ASSEMBLY

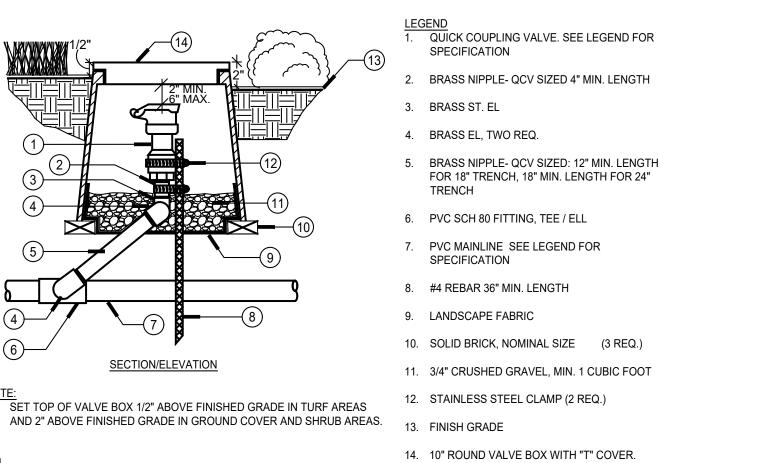
3. BRASS BALL VALVE

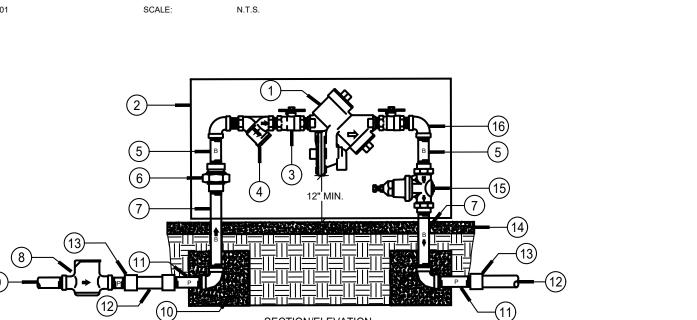
24" COIL OF WIRE AT VALVE

MAINLINE SIZE (I.E. 2" to 6"), SIZE PER UNION

- 4. WYE STRAINER, SEE LEGEND FOR SPECIFICATION 5. BRASS RISER, MAX. LENGTH 6"
- BRASS UNION
- 7. BRASS RISER, LENGTH AS REQUIRED
- 8. IRRIGATION WATER METER
- 9. IRRIGATION SERVICE LINE
- 10. CONCRETE THRUST BLOCKS

## BACKFLOW ASSEMBLY





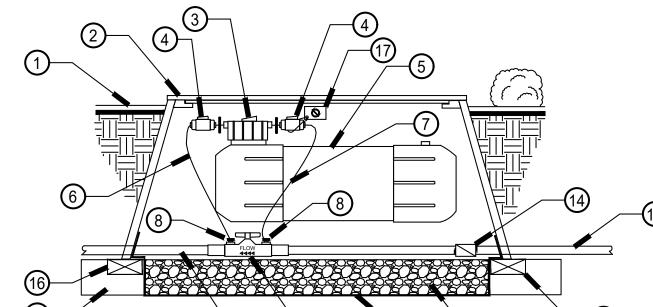
B. IF BACKFLOW ENCLOSURE IS SPECIFIED IN THE LEGEND, THE CONCRETE SLAB SHALL BE

- 11. SCH 80 PVC NIPPLE 6" MINIMUM
  - 12. PVC MAINLINE, SIZE PER LARGEST MAINLINE SIZE
  - 13. PVC SCH 80 FEMALE ADAPTER (3 REQ.)

HEATED BRANDED MARKED "QCV"

- 14. CONCRETE SLAB
- 15. PRESSURE REGULATOR. IF SPECIFIED, SEE LEGEND FOR SPECIFICATION -IF NOT SPECIFIED, INSTALL BRASS UNION. REFER TO #6
- 16. BRASS ELBOW (TYPICAL)

### POP-UP SPRINKLER



- A. ITEMS 3, 4, 5, 6, 7 AND 8 ARE INCLUDED WITH THE
- EZ-FLO SYSTEM.
- MAINLINE. C. FILL SYSTEM WITH FERTI-MAXX STARTER FERTILIZER
- PURCHASED SEPARATELY.

- → DIRECTION OF FLOW → A. USE 45 DEGREE ELLS TO TRANSITION NO VALVES, REDUCERS, OR TO MAINLINE DEPTH ELBOWS IN THIS AREA B. INSTALL FLOW SENSOR PER MANUFACTURES RECOMMENDATIONS SECTION/ELEVATION AND WIRE TO CONTROLLER. 6. SOLID BRICK, NOMINAL SIZE (4 REQ.) LEGEND

  1. WIRE TO CONTROLLER WITHIN ELECTRICAL MAINLINE SIZE PER FLOW SENSOR, LENGTH AS REQUIRED. DIMENSION 'A'; DIMENSION 'B' 2. MAINLINE PIPE FROM MASTER VALVE 3. 3/4" CRU`SHED GRAVEL, MINIMUM 6" DEPTH 9. RECTANGULAR VALVE BOX WITH 'T' COVER MARKED 4. FLOW SENSOR, SEE LEGEND FOR SPECIFICATION

  - LANDSCAPE FABRIC 10. SENSOR CABLE WITH GEL-FILLED CONNECTIONS PROVIDE 24" COIL OF WIRE AT VALVE

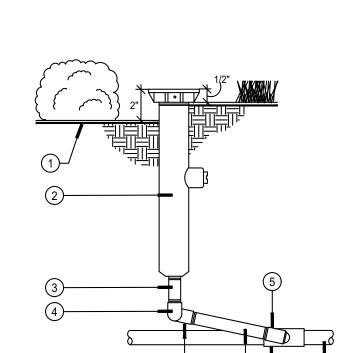
### LOW SENSOR ASSEMBLY

A RCV ASSEMBLY

SCALE:

N.T.S.

LI.15 REF. AS01



#### <u>LEGEND</u>

LEGEND

1. PVC LATERAL LINE PIPE, 45 DEGREE TO LATERAL LINE DEPTH

4. REMOTE CONTROL VALVE W/ PRESSURE REGULATOR, SEE LEGEND FOR TYPE

PVC SCH 40 SLIP COUPLER, AS REQUIRED

PVC SCH 80 UNION, SIZE PER RCV

5. 3/4" CRUSHED GRAVEL, MIN. 5" DEPTH

7. PVC SCH 80 MAINLINE TEE/ELL FITTING

9. SOLID BRICK, NOMINAL SIZE (MIN. 4 REQ.)

DOWNSTREAM RCV LATERAL SIZE

11. PVC SCH 80 SS EL, SIZE PER #10

8. PVC MANIFOLD BACKBONE MAINLINE, DEPTH PER SPECS

10. PVC PIPE, MINIMUM PRESSURE RATING-315 PSI, SIZE PER IMMEDIATE

LANDSCAPE FABRIC

FINISH GRADE

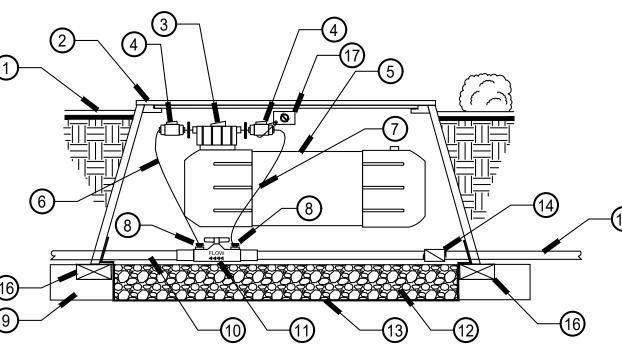
- 1. FINISH GRADE/TOP OF MULCH
- 2. POP-UP SPRAY SPRINKLER
- 3. PVC SCH 80 NIPPLE, SIZE PER SPRINKLER INLET (LENGTH AS REQUIRED), MIN. 2"
- 4. PVC SCH 40 ELL TxT
- 5. PVC SCH 40 STREET ELL
- 6. PVC SCH 40 SxSxT TEE OR ELL
- 7. PVC LATERAL PIPE
- 8. PVC SCH 80 NIPPLE, SIZE PER SPRINKLER INLET (LENGTH SHALL BE 6" FOR 6" POP-UP SPRAY HEAD, 10" FOR 12" POP-UP SPRAY
- A. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- B. INSTALL SPRINKLER HEADS 6" FROM PAVING EDGE IN GROUND COVER AREAS.
  C. INSTALL SPRINKLER HEADS 4" FROM PAVING EDGE IN TURF AREAS.
- . INSTALL SPRINKLER HEADS 12" FROM ALL BUILDINGS AND WALLS.

PAVING, FENCES, WALLS OR BUILDINGS. DO NOT SCALE DRAWINGS.

- INSTALL SPRINKLER HEADS PLUMB. F. ADJUST SPRAYS OR NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO

SCALE:

SECTION/ELEVATION



- B. ITEM 11 IS PURCHASED SEPARATELY, ITEM 11 SIZE PER
- D. INSTALL PER MANUFACTURE RECOMMENDATION.

- FINISHED GRADE. 2. (PURPLE) "RECYCLED WATER" PLASTIC RECTANGULAR
- SUPER JUMBO VALVE BOX 30"L x 18"W X 17"H, WITH LOCKING PURPLE COVER, USE STAINLESS BOLT, NUT, AND WASHER. HEAT BRAND "FI" ONTO LID MARKED FOR "RECYCLED WATER".
- 3. PROPORTIONING CAP WITH FEED ADJUSTMENT KNOB. 4. EZ-FLO SHUT OFF VALVES. 5. EZ-FLO FERTILIZING SYSTEM, SEE LEGEND FOR SIZE. 6. (FERTILIZER OUT) CONNECT CLEAR TUBE TO GREEN
- CONNECTIONS ON PROPORTIONING CAP AND COUPLING. (WATER IN) CONNECT BLACK TUBE TO BLUE CONNECTIONS ON PROPORTIONING CAP AND COUPLING.
- 8. 1/4" TUBING CLAMP BOTH THE GREEN AND BLUE COUPLING TUBING CONNECTIONS.
- 9. APPROVED BACKFILL. 10. PVC MAIN LINE TO VALVE MANIFOLD.
- 11. EZ COUPLING CONNECTOR INSTALL ACCORDING TO WATER FLOW DIRECTION ARROW. SIZE PER MAINLINE. 12. 1/2" ROUND WASHED PEA GRAVEL (MINIMUM 4" DEPTH).
- 13. LANDSCAPE FABRIC. 14. INLINE THREADED BRASS CHECK VALVE, SIZE PER MAINLINE.
- 15. PVC MAIN LINE FROM P.O.C EQUIPMENT. 16. NOMINAL SIZE SOLID BRICK (4 REQUIRED - ONE AT EACH CORNER OF VALVE BOX).
- 17. (PURPLE) "RECYCLED WATER" PLASTIC LABEL ATTACHED WITH NYLON TIE. LABEL TO READ "RECYCLED WATER-DO NOT DRINK" IN ENGLISH AND SPANISH.

<u> </u>	FERTILIZING	SYSTEM	
LI.15	REF. AS01	SCALE:	N.T.S.

13. 12" STANDARD VALVE BOX WITH BOLT DOWN 'T' COVER MARKED "RCV" AND

14. PVC SCH 80 REDUCER BUSHING, SPGxFIPT, SIZE AS REQUIRED

15. PVC SCH 80 PVC NIPPLE, RCV SIZE, MIN. LENGTH 4" (2 REQ.) RCV ID TAG

17. CONTROL WIRES WITH WATER TIGHT SPLICES PROVIDE 24" COIL OF WIRE AT

18. SCH 40 PVC MALE ADAPTER MIPTXSLIP, SIZE PER RCV

19. SCH 40 PVC REDUCER BUSHING, SS, SIZE AS REQUIRED

LANDSCAPE

ARCHITECTURE

507 30th Street Newport Beach, CA 92663 **3** 949.675.9964

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Revisions:

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Project:

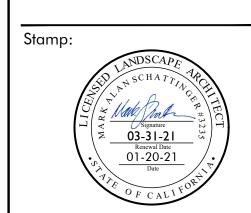
1905 & 1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

Client:

MILESTONE

481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030



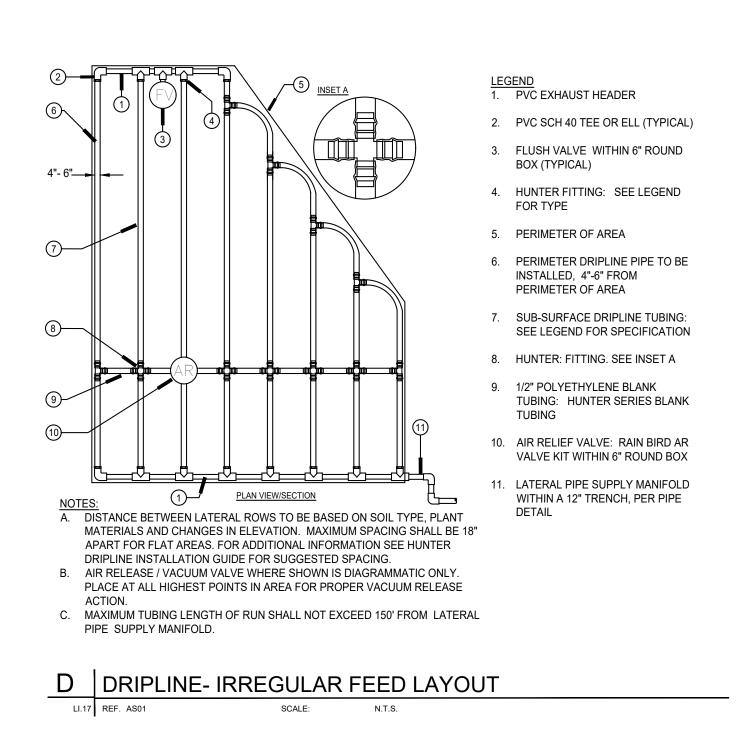
Job No: Drawn By: NL Checked By: MS

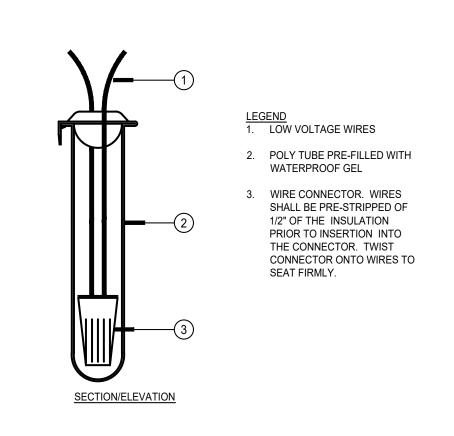
Plan Date: 06.02.2021 Scale: See Sheet

Sheet No.:

Title:

IRRIGATION DETAILS





BOX TO BE INSTALLED AS TO

OF BALL VALVE

MAIN LINE DEPTH.

5. DRIP BUSHING AS REQUIRED FOR POLY PIPE

6. DRIP LATERAL LINE (PVC OR POLY)

7. BRICK SUPPORTS (3 REQ.)

8. PVC SCH 40 ELL, SxS

9. LANDSCAPE FABRIC

10. 3/4" ROCK, 1 CUBIC FT.

LLOW FOR PROPER OPERATION

INSTALL VALVE BOX EXTENSIONS

PROPER VALVE INSTALLATION AT

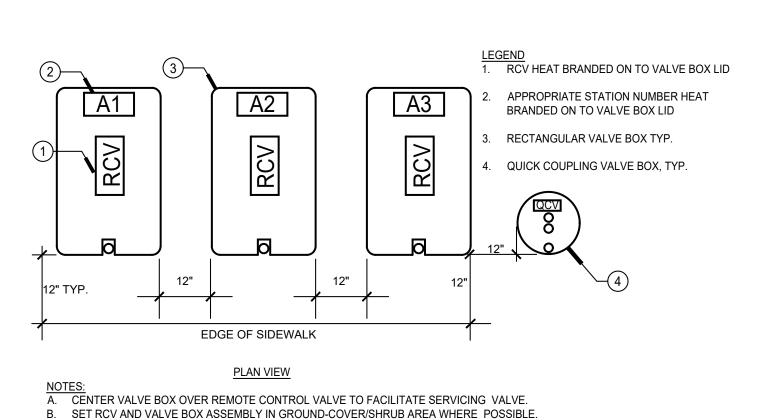
USE TEFLON TAPE ON ALL MALE

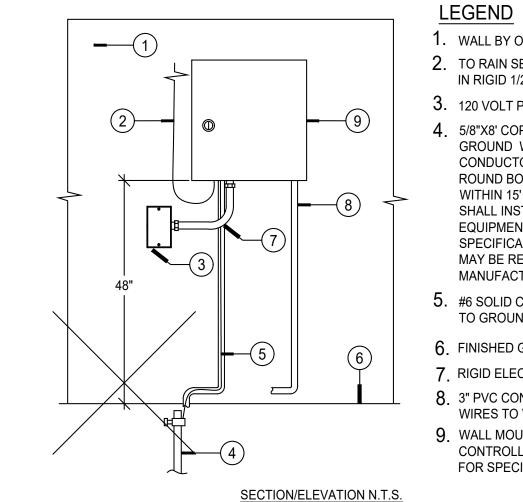
AS REQUIRED TO ACHIEVE

WIRE CONNECTION

1. PLASTIC 10" ROUND VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, AND WASHER. HEAT BRAND

FV" ONTO LID IN 2" HIGH CHARACTERS. LID SHALL BE





1. WALL BY OTHERS 2. TO RAIN SENSOR (IF SPECIFIED) ON ROOF, IN RIGID 1/2" CONDUIT 3. 120 VOLT POWER SUPPLY IN J-BOX 4. 5/8"X8' COPPER U.L. GROUND ROD W/#6 GROUND WIRE AND CADWELD ONESHOT CONDUCTOR TIE. INSTALL INSIDE A 10" ROUND BOX, GROUND ROD TO BE LOCATED WITHIN 15' OF CONTROLLER. CONTRACTOR SHALL INSTALL ACTUAL GROUNDING **EQUIPMENT PER MANUFACTURERS** SPECIFICATION. ADDITIONAL GROUNDING MAY BE REQUIRED TO MEET MINIMUM MANUFACTURERS SPECIFICATIONS 5. #6 SOLID COPPER GROUND WIRE TO GROUND ROD IN 1" CONDUIT 6. FINISHED GRADE/BUILDING FLOOR 7 RIGID ELECTRICAL CONDUIT (1") 8. 3" PVC CONDUIT/SWEEP FOR CONTROL WIRES TO VALVES 9. WALL MOUNT CONTROLLER INSIDE CONTROLLER ENCLOSURE, SEE LEGEND FOR SPECIFICATION.

SECTION/ELEVATION N.T.S. INSTALL ENCLOSURE AS INDICATED BY CITY STAFF & MANUFACTURER'S RECOMMENDATION. ROUTE WIRES AND SLEEVE THROUGH WALL AS PER LANDSCAPE ARCHITECT'S RECOMMENDATION.

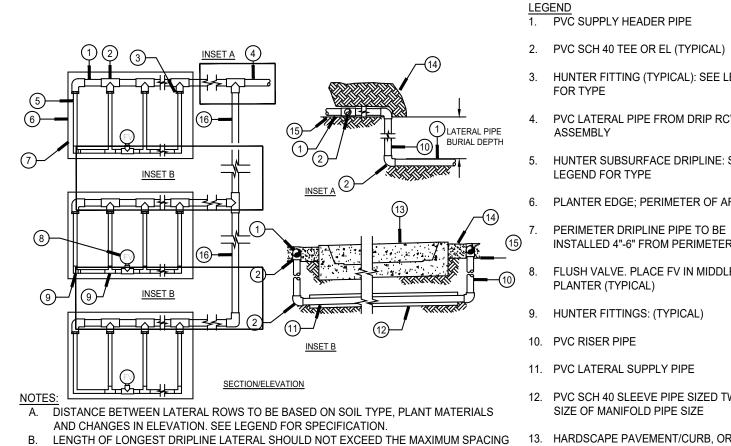
B VALVE BOX LOCATION

DEFORMATION OF VALVE BOXES.

C. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.

D. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND

A WALL MOUNTED CONTROLLER



- B. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING 13. HARDSCAPE PAVEMENT/CURB, OR SHOWN IN THE ACCOMPANYING TABLE. . PLACE TIE DOWN STAKES EVERY 3' IN SAND, 4' IN LOAM, AND 5' IN CLAY.
- AT FITTINGS WHERE THERE IS A CHANGE IN DIRECTION SUCH AS TEES OR ELBOWS, USE 14. 4"-6" OF SOIL COVER OVER DRIPLINE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION. XFS DRIPLINE MAXIMUM LATERAL LENGTHS (FEET) 18" Spacing

 
 PSI
 0.6 GPH
 0.9 GPH
 0.6 GPH
 0.9 GPH
 0.6 GPH
 0.9 GPH
 40 150 150 200 200 300 300 DRIPLINE- MULTPLE PLANTERS LAYOUT

3. HUNTER FITTING (TYPICAL): SEE LEGEND FOR TYPE 4. PVC LATERAL PIPE FROM DRIP RCV

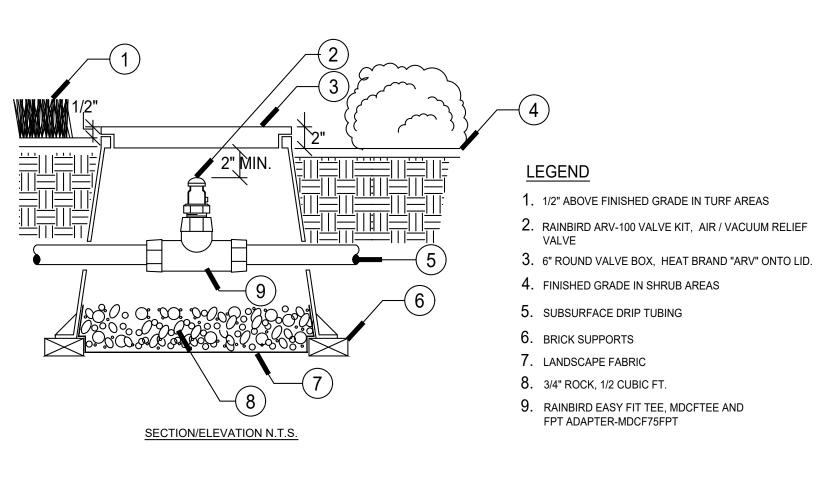
HUNTER SUBSURFACE DRIPLINE: SEE LEGEND FOR TYPE 6. PLANTER EDGE; PERIMETER OF AREA

- PERIMETER DRIPLINE PIPE TO BE INSTALLED 4"-6" FROM PERIMETER OF AREA FLUSH VALVE. PLACE FV IN MIDDLE OF PLANTER (TYPICAL)
- 10. PVC RISER PIPE 11. PVC LATERAL SUPPLY PIPE

HUNTER FITTINGS: (TYPICAL)

- 12. PVC SCH 40 SLEEVE PIPE SIZED TWICE THE SIZE OF MANIFOLD PIPE SIZE
- 15. SUB-FINISH GRADE

2. AG PRODUCTS 3/4" BALL VALVE WITH A PVC SCH. 40 16. PVC LATERAL SUPPLY PIPE SHALL BE 3. FINISHED GRADE IN SHRUB AREAS INSTALLED WITHIN PLANTERS UNLESS CROSSING PAVEMENT TO ADJACENT 4. SALCO A/R 3/4" FLEXIBLE PVC HOSE,

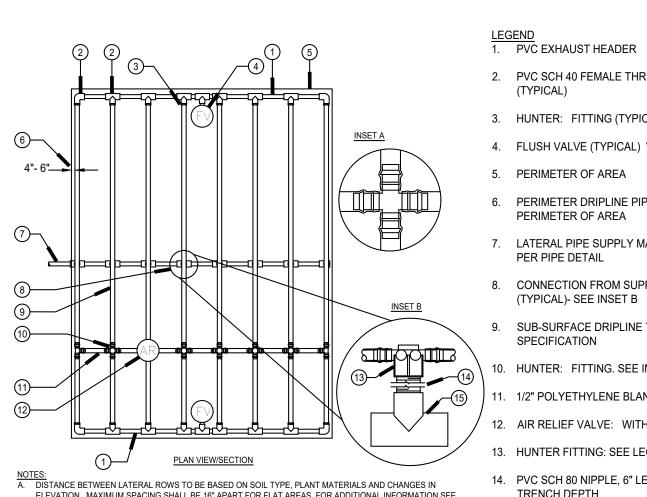


TUBING SHALL BE 4"- 6" AT 4 FT O. C. SPACING. \* NOTE: DEPTH PER LANDSCAPE SPECIFICATIONS

<u>LEGEND</u>

1. SHRUBS/GROUND COVER MULCH LAYER\*, REFER TO LANDSCAPE SPECIFICATIONS FINISH GRADE NATIVE OR AMENDED SOIL\*, REFER TO LANDSCAPE SPECIFICATIONS 5. DRIP TUBING INSTALLATION: 4"- 6" OF SOIL COVER RECOMMENDED INSTALLATION NOTES TO INSURE EVEN PARALLEL AND LEVEL TUBING ROWS WIRE STAKE, SPACE AT 4 FT O.C. IT IS RECOMMENDED THAT THE SOIL LEVEL IN THE PLANTER AREAS BE GRADED TO 4"- 6" BELOW FINAL ALONG ALL TUBING LATERALS GRADE, LEVELED, AND PROPERLY COMPACTED AS PER THE LANDSCAPED DRAWINGS PRIOR TO THE INSTALLATION OF THE TUBING. SOIL COVER OVER B. INSTALL TUBING AS INDICATED ON THESE DRAWINGS AND SECURE TO GRADE USING WIRE HOOP STAKES

DRIPLINE INSTALLATION



2. PVC SCH 40 FEMALE THRD TEE (SSF) OR ELL (SF) (TYPICAL) 3. HUNTER: FITTING (TYPICAL) 4. FLUSH VALVE (TYPICAL) WITHIN 6" ROUND BOX

5. PERIMETER OF AREA PERIMETER DRIPLINE PIPE TO BE INSTALLED, 4"-6" FROM PERIMETER OF AREA

'. LATERAL PIPE SUPPLY MANIFOLD WITHIN A 12" TRENCH, PER PIPE DETAIL 8. CONNECTION FROM SUPPLY MANIFOLD TO DRIPLINE

9. SUB-SURFACE DRIPLINE TUBING: SEE LEGEND FOR SPECIFICATION 10. HUNTER: FITTING. SEE INSET A

1. 1/2" POLYETHYLENE BLANK TUBING: HUNTER SERIES AIR RELIEF VALVE: WITHIN 6" ROUND BOX

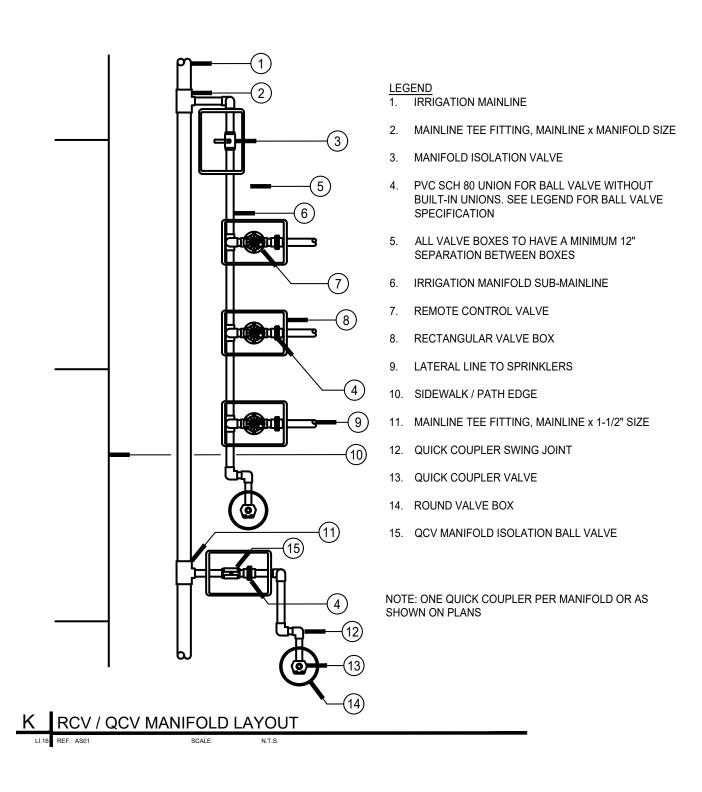
13. HUNTER FITTING: SEE LEGEND FOR TYPE 14. PVC SCH 80 NIPPLE, 6" LENGTH FOR 12" LATERAL PIPE TRENCH DEPTH ELEVATION. MAXIMUM SPACING SHALL BE 16" APART FOR FLAT AREAS. FOR ADDITIONAL INFORMATION SEE

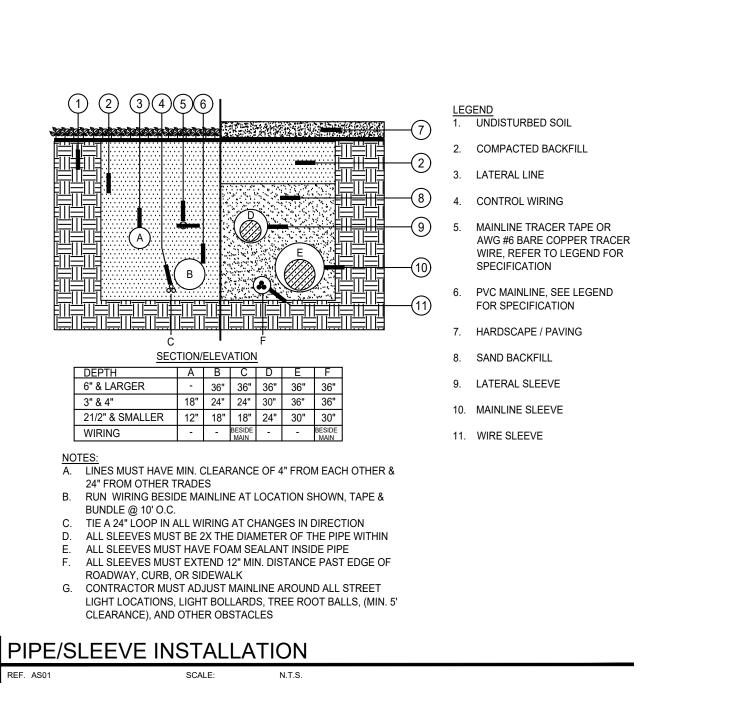
B. AIR RELEASE / VACUUM VALVE WHERE SHOWN AS DIAGRAMMATIC ONLY. PLACE AT HIGHEST POINT IN AREA 15. PVC SCH 40 TEE OR EL

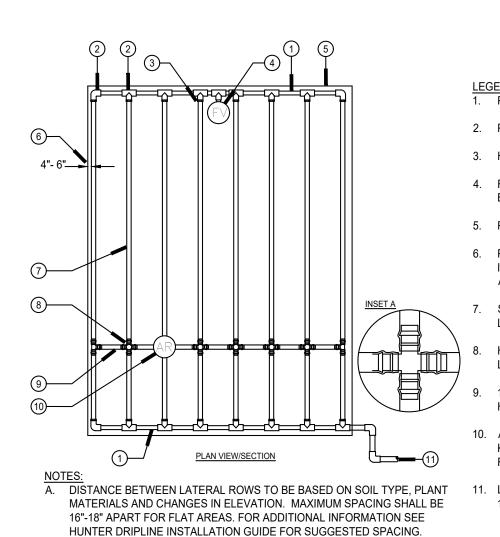
DRIPLINE- CENTER FEED LAYOUT

RAIN BIRD DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACING.

FOR PROPER VACUUM RELEASE ACTION.
C. MAXIMUM TUBING LENGTH OF RUN IN EITHER DIRECTION SHALL NOT EXCEED 100' FROM LATERAL PIPE







B. AIR RELEASE / VACUUM VALVE WHERE SHOWN AS DIAGRAMMATIC ONLY. PLACE AT HIGHEST POINT IN AREA FOR PROPER VACUUM RELEASE C. MAXIMUM TUBING LENGTH OF RUN SHALL NOT EXCEED 150' FROM LATERAL PIPE SUPPLY MANIFOLD.

<u>LEGEND</u>

1. PVC EXHAUST HEADER 2. PVC SCH 40 TEE OR ELL (TYPICAL) 3. HUNTER: FITTINGS SEE LEGEND FOR TYPE 4. FLUSH VALVE (TYPICAL) WITHIN 6" ROUND BOX (SEE LEGEND FOR TYPE) 5. PERIMETER OF AREA 6. PERIMETER DRIPLINE PIPE TO BE INSTALLED, 4"-6" FROM PERIMETER OF 7. SUB-SURFACE DRIPLINE TUBING: SEE LEGEND FOR SPECIFICATION HUNTER: FITTING. SEE INSET A, SEE LEGEND FOR TYPE 1/2" POLYETHYLENE BLANK TUBING: HUNTER SERIES BLANK TUBING 10. AIR RELIEF VALVE: RAIN BIRD AR VALVE KIT WITHIN 6" ROUND BOX (SEE LEGEND A. DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT 11. LATERAL PIPE SUPPLY MANIFOLD WITHIN A

DRIPLINE- END FEED LAYOUT

03/15/21 100% DESIGN DEVELOPMENT Revisions:

Issued for:

LANDSCAPE ARCHITECTURE

507 30th Street Newport Beach, CA 92663 **3** 949.675.9964

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Project:

# **ACME FAMILY**

1905 & 1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

Client:

# MILESTONE

481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030

Stamp:

Job No: Drawn By: NL Checked By: MS Plan Date: 06.02.2021

Scale: See Sheet

**IRRIGATION DETAILS** 

Sheet No.:

#### **SECTION 02810** IRRIGATION SYSTEM

#### **PART 1 - GENERAI**

1.1 DESCRIPTION OF WORK A. FURNISH ALL MATERIALS, LABOR, TRANSPORTATION, SERVICES, AND EQUIPMENT NECESSARY TO INSTALL LANDSCAPE IRRIGATION AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.

#### 1.2 DEFINITIONS

A. THE OWNER'S AUTHORIZED REPRESENTATIVE IN THIS SECTION WILL REFER TO THE

### LANDSCAPE ARCHITECT.

1.3 REQUIREMENTS OF REGULATORY AGENCIES A. ALL LOCAL, MUNICIPAL AND STATE LAWS, AND RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THIS SPECIFICATION, AND ITS PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR. ANYTHING CONTAINED IN THIS SPECIFICATION SHALL NOT BE CONSTRUED TO CONFLICT WITH ANY OF THE ABOVE RULES AND REGULATIONS OR REQUIREMENTS OF THE SAME. HOWEVER, WHEN THE DRAWINGS AND SPECIFICATIONS CALL FOR OR DESCRIBE MATERIALS, WORKMANSHIP, OR CONSTRUCTION OF A BETTER QUALITY HIGHER STANDARD, OR LARGER SIZE THAN IS REQUIRED BY THE ABOVE RULES AND REGULATIONS, THE PROVISIONS OF THE DRAWINGS AND SPECIFICATIONS SHALL TAKE **PRECEDENCE** 

#### 1.4 QUALITY CONTROL

- A. MANUFACTURER'S DIRECTIONS THE MANUFACTURER'S DIRECTIONS AND DRAWINGS SHALL BE FOLLOWED IN ALL CASES WHERE THE MANUFACTURERS OF ARTICLES USED IN THIS SPECIFICATION. FURNISH DIRECTIONS COVERING POINTS NOT SHOWN IN THE DRAWINGS AND **SPECIFICATIONS**
- B. PERMITS, FEES, BONDS AND INSPECTIONS THE CONTRACTOR SHALL PAY FOR ANY AND ALL PERMITS. FEES. BONDS AND INSPECTIONS NECESSARY TO PERFORM AND COMPLETE HIS PORTION OF THE
- C. EXPLANATION OF THE DRAWINGS
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC. AS MAY BE REQUIRED TO MEET SUCH CONDITIONS THE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO **AVOID CONFLICTS BETWEEN IRRIGATION** SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- ALL WORK CALLED FOR ON THE DRAWINGS BY NOTES OR DETAILS SHALL BE FURNISHED AND INSTALLED WHETHER OR NOT SPECIFICALLY MENTIONED IN THIS SPECIFICATION.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR **DISCREPANCIES IN AREA DIMENSIONS** EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN ENGINEERING. SUCH **OBSTRUCTIONS OR DIFFERENCES SHOULD** BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS.

#### 1.5SUBMITTALS

- A. MATERIALS LIST THE CONTRACTOR SHALL FURNISH THE ARTICLES, EQUIPMENT, MATERIALS, OR PROCESSES SPECIFIED BY NAME IN THE DRAWINGS AND SPECIFICATIONS. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE OWNER'S AUTHORIZED
- COMPLETE MATERIAL LIST SHALL BE SUBMITTED PRIOR TO PERFORMING ANY WORK. MATERIAL LIST SHALL INCLUDE THE MANUFACTURER, MODEL NUMBER AND DESCRIPTION OF ALL MATERIALS AND EQUIPMENT TO BE USED. ALTHOUGH MANUFACTURER AND OTHER INFORMATION MAY BE DIFFERENT, THE FOLLOWING IS A GUIDE TO PROPER **SUBMITTAL FORMAT:**

#### ITEM NO. DESCRIPTION

REPRESENTATIVE

MANUFACTURER MODEL NO. **BACKFLOW ASSEMBLY FEBCO 825Y** GATE VALVE NIBCO

T-113 ETC. ETC. THE IRRIGATION SUBMITTAL LIST MUST BE SPECIFIC AND COMPLETE. ALL ITEMS MUST BE LISTED AND SHOULD INCLUDE SOLVENT/PRIMER, WIRE, WIRE CONNECTORS, VALVE BOXES, ETC. NO COPIES OF MANUFACTURER'S LITERATURE (CATALOG CUTS) ARE REQUIRED AS SUBMITTAL

INFORMATION. 3. THE CONTRACTOR MAY SUBMIT SUBSTITUTIONS FOR EQUIPMENT AND MATERIALS LISTED ON THE DRAWINGS BY FOLLOWING PROCEDURES AS OUTLINED IN SECTION 1.6 OF THIS SPECIFICATION.

- 4. EQUIPMENT OR MATERIALS INSTALLED OR FURNISHED WITHOUT PRIOR APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE MAY BE REJECTED AND THE CONTRACTOR REQUIRED TO REMOVE SUCH MATERIALS FROM THE SITE AT NO COST TO THE OWNER
- APPROVAL OF ANY ITEM, ALTERNATE OR SUBSTITUTE INDICATES ONLY THAT THEPRODUCT OR PRODUCTS APPARENTLY MEET THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS ON THE BASIS OF THE INFORMATION OR SAMPLES SUBMITTED
- MANUFACTURER'S WARRANTIES SHALL NOT RELIEVE THE CONTRACTOR OF HIS LIABILITY UNDER THE GUARANTEE. SUCH WARRANTIES SHALL ONLY SUPPLEMENT THE GUARANTEE
- B. RECORD DRAWINGS OR "AS-BUILTS" 1. THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE AT ALL TIMES, A COMPLETE RECORD SET "AS-BUILTS" OF BLUE LINE OZALID PRINTS WHICH SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS AND SPECIFICATIONS AND THE EXACT INSTALLED LOCATIONS, SIZES, AND KINDS OF EQUIPMENT. PRINTS FOR THIS PURPOSES MAY BE OBTAINED FROM THE OWNER'S AUTHORIZED REPRESENTATIVE AT THE CONTRACTOR'S COST. "AS-BUILTS"

SHALL BE KEPT ON THE SITE AND SHALL

BE USED ONLY AS A RECORD SET.

2. "AS-BUILTS" SHALL ALSO SERVE AS WORK PROGRESS SHEETS AND SHALL BE THE BASIS FOR MEASUREMENT AND PAYMENT FOR WORK COMPLETED. "AS-BUILTS" SHALL BE AVAILABLE AT ALL TIMES FOR OBSERVATION AND SHALL BE KEPT IN A LOCATION EASILY ACCESSIBLE TO THE OWNER'S AUTHORIZED REPRESENTATIVE. SHOULD THE "AS-BUILT" PROGRESS SHEETS NOT BE AVAILABLE FOR REVIEW OR NOT CURRENT AT THE TIME OF ANY SITE VISIT BY THE OWNER'S AUTHORIZED REPRESENTATIVE, IT WILL BE ASSUMED NO WORK HAS BEEN COMPLETED AND THE CONTRACTOR WILL BE ASSESSED THE COST OF THAT SITE VISIT AT THE CURRENT BILLING RATE OF THE OWNER'S AUTHORIZED REPRESENTATIVE. NO OTHER SITE OBSERVATIONS SHALL TAKE

PLACE WITHOUT PRIOR PAYMENT OF THIS

- **ASSESSMENT** 3. THE CONTRACTOR SHALL MAKE NEAT AND LEGIBLE NOTATIONS ON THE "AS-BUILT" PROGRESS SHEETS DAILY AS THE WORK PROCEEDS, SHOWING THE WORK AS ACTUALLY INSTALLED. FOR EXAMPLE SHOULD A PIECE OF EQUIPMENT BE INSTALLED IN A LOCATION THAT DOES NOT MATCH THE DRAWINGS, THE CONTRACTOR MUST INDICATE THAT EQUIPMENT HAS BEEN RELOCATED IN A GRAPHIC MANNER SO AS TO MATCH THE ORIGINAL SYMBOLS AS INDICATED IN THE IRRIGATION LEGEND. THE RELOCATED EQUIPMENT AND DIMENSIONS WILL THEN BE TRANSFERRED TO THE ORIGINAL "AS-BUILTS" AT THE PROPER TIME.
- 4. BEFORE THE DATE OF THE FINAL WALKTHROUGH, THE CONTRACTOR SHALL TRANSFER ALL INFORMATION FROM THE "AS-BUILT" PRINTS TO SEPIA MYLAR PLANS PROCURED FROM THE OWNER'S AUTHORIZED REPRESENTATIVE AT THE CONTRACTOR'S COST. ALL DRAFTING SHALL BE DONE WITH WATERPROOF TECHNICAL PEN INK AND APPLIED TO THE SEPIA MYLAR BY TECHNICAL DRAFTING PENS MADE EXPRESSLY FOR USE ON MADE ON THE SEPIA MYLAR SO AS TO BE EASILY READABLE EVEN ON THE FINAL IRRIGATION CONTROLLER CHART. THE ORIGINAL SEPIA MYLAR "AS-BUILTS" SHALL BE SUBMITTED TO THE OWNER'S AUTHORIZED REPRESENTATIVE FOR APPROVAL PRIOR TO THE MAKING OF THE
- IRRIGATION CONTROLLER CHARTS THE CONTRACTOR SHALL DIMENSION FROM TWO (2) PERMANENT POINTS OF REFERENCE, BUILDING CORNERS, SIDEWALK, OR ROAD INTERSECTIONS, ETC., THE LOCATION OF THE FOLLOWING ITEMS:
- a. CONNECTION TO EXISTING WATER
- b. CONNECTION TO EXISTING
- ELECTRICAL POWER. c. GATE VALVES.
- d. ROUTING OF SPRINKLER PRESSURE LINES.
- e. SPRINKLER CONTROL VALVES. ROUTING OF CONTROL WIRING. QUICK COUPLING VALVES.
- BACKFLOW PREVENTER. OTHER RELATED EQUIPMENT. 6. ON OR BEFORE THE DATE OF THE FINAL WALKTHROUGH, THE CONTRACTOR SHALL DELIVER THE CORRECTED AND
- COMPLETED SEPIA MYLAR "AS-BUILTS" TO THE OWNER'S AUTHORIZED REPRESENTATIVE. DELIVERY OF THE SEPIA "AS-BUILTS" WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING REQUIRED INFORMATION THAT MAY BE OMITTED FROM THE "AS-BUILTS."
- C. IRRIGATION CONTROLLER CHARTS 1. "AS-BUILT" DRAWINGS SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE BEFORE IRRIGATION CONTROLLER CHARTS ARE PREPARED. 2. PROVIDE ONE IRRIGATION CONTROLLER CHART FOR EACH IRRIGATION

CONTROLLER SUPPLIED.

- EACH IRRIGATION CONTROLLER CHART SHALL SHOW THE AREA CONTROLLED BY THAT IRRIGATION CONTROLLER AND SHALL BE THE MAXIMUM SIZE OF WHICH THE IRRIGATION CONTROLLER DOOR WILL ALLOW.
- 4. THE IRRIGATION CONTROLLER CHART IS TO BE A REDUCED DRAWING OF THE ACTUAL INSTALLED IRRIGATION SYSTEM. IN THE EVENT THAT THE IRRIGATION CONTROLLER CHART IS NOT LEGIBLE WHEN THE CHART IS REDUCED. IT MAY BE ENLARGED TO A SIZE THAT WILL BE READABLE WHEN REDUCED.
- THE IRRIGATION CONTROLLER CHART SHALL BE A 11" X 17" XEROX BOND REDUCTION WITH EACH VALVE STATION REPRESENTED BY A DIFFERENT COLOR
- 6. WHEN COMPLETED, HERMETICALLY SEAL THE IRRIGATION CONTROLLER CHART BETWEEN TWO PIECES OF 3 MIL PLASTIC WITH A 1/8" EDGE OVERLAF 7. IRRIGATION CONTROLLER CHARTS SHALL

BE COMPLETED AND APPROVED BY THE

- OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO THE FINAL WALK-THROUGH. D. OPERATION AND MAINTENANCE MANUALS PREPARE AND DELIVER TO THE OWNER'S **AUTHORIZED REPRESENTATIVE WITHIN 10** CALENDAR DAYS PRIOR TO COMPLETION OF IRRIGATION INSTALLATION, TWO (2) - 3 RING HARD COVER BINDERS EACH
  - CONTAINING THE FOLLOWING **INFORMATION:** a. INDEX SHEETS STATING THE CONTRACTOR'S ADDRESS AND TELEPHONE NUMBER AND A LIST OF EQUIPMENT WITH THE NAME AND ADDRESSES OF LOCAL
  - MANUFACTURER'S REPRESENTATIVES. b. CATALOG AND PART SHEETS ON **EVERY MATERIAL AND EQUIPMENT** INSTALLED UNDER THIS CONTRACT
  - GUARANTEE STATEMENT COMPLETE OPERATING AND MAINTENANCE INSTRUCTION ON ALL
- **MAJOR EQUIPMENT** 2. IN ADDITION TO THE ABOVE MENTIONED MAINTENANCE MANUAL, PROVIDE THE OWNER WITH ON-SITE INSTRUCTIONS FOR MAJOR EQUIPMENT AND SHOW EVIDENCE IN WRITING TO THE OWNER'S AUTHORIZED REPRESENTATIVE AT THE CONCLUSION OF THE PROJECT THAT THIS SERVICE WAS RENDERED
- E. EQUIPMENT TO BE FURNISHED 1. SUPPLY AS A PART OF THIS CONTRACT
  - THE FOLLOWING TOOLS a. TWO (2) SETS OF SPECIAL TOOLS REQUIRED FOR REMOVING, DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER AND VALVE SUPPLIED ON THE PROJECT.
  - b. TWO (2) FIVE-FOOT VALVE KEYS FOR **OPERATION OF GATE VALVES** c. TWO (2) KEYS FOR EACH AUTOMATIC **CONTROLLER AND IRRIGATION**
  - CONTROLLER ENCLOSURE d. ONE (1) QUICK COUPLER KEY AND MATCHING HOSE SWIVEL FOR EVERY FIVE (5), OR FRACTION THEREOF, OF EACH TYPE OF QUICK COUPLING
- VALVE INSTALLED. 2. THE ABOVE MENTIONED EQUIPMENT SHALL BE TURNED OVER TO THE OWNER AT THE CONCLUSION OF THE PROJECT. BEFORE THE FINAL WALK-THROUGH SHALL BE PERFORMED, EVIDENCE THAT THE OWNER HAS RECEIVED THIS MATERIAL MUST BE SHOWN TO THE OWNER'S AUTHORIZED REPRESENTATIVE.

#### MYLAR SURFACES. DIMENSIONS SHALL BE 1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

A. HANDLING OF PVC PIPE AND FITTINGS 1. THE CONTRACTOR IS CAUTIONED TO EXERCISE CARE IN HANDLING, LOADING UNLOADING, AND STORING OF PVC PIPE AND FITTINGS. ALL PVC PIPE SHALL BE TRANSPORTED IN A VEHICLE WHICH ALLOWS THE LENGTH OF PIPE TO LIE FLAT SO AS NOT TO SUBJECT IT TO UNDUE BENDING OR CONCENTRATED EXTERNAL LOAD AT ANY POINT. ANY SECTION OF PIPE THAT HAS BEEN DENTED OR DAMAGED WILL BE DISCARDED AND, IF INSTALLED, SHALL BE REPLACED WITH NEW PIPING AT NO COST TO THE OWNER.

#### 1.7 SUBSTITUTIONS

- IF THE CONTRACTOR WISHES TO SUBSTITUTE ANY EQUIPMENT OR MATERIALS FOR THOSE EQUIPMENT OR MATERIALS LISTED ON THE DRAWINGS AND SPECIFICATIONS, HE MAY DO SO BY PROVIDING THE FOLLOWING INFORMATION TO THE OWNER'S AUTHORIZED
- REPRESENTATIVE FOR APPROVAL PROVIDE A STATEMENT INDICATING THE REASON FOR MAKING THE SUBSTITUTION. USE A SEPARATE SHEET OF PAPER FOR EACH ITEM TO BE SUBSTITUTED.
- PROVIDE DESCRIPTIVE CATALOG LITERATURE. PERFORMANCE CHARTS AND FLOW CHARTS FOR EACH ITEM TO BE SUBSTITUTED.
- 3. PROVIDE THE AMOUNT OF COST SAVINGS IF THE SUBSTITUTED ITEM IS APPROVED. THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL HAVE THE SOLE RESPONSIBILITY IN ACCEPTING OR REJECTING ANY SUBSTITUTED ITEM AS AN APPROVED EQUAL TO THOSE EQUIPMENT AND MATERIALS 2.1 GENERAL

LISTED ON THE DRAWINGS AND

SPECIFICATIONS.

#### 1.8 PRIOR TO START OF THE LANDSCAPE MAINTENANCE PERIOD

A. THE CONTRACTOR SHALL SUBMIT PROOF OF WARRANTY TO THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO THE START OF THE LANDSCAPE MAINTENANCE PERIOD. ALL COMPUTERIZED IRRIGATION CONTROL SYSTEM MATERIALS EXCEPT INTERCONNECT CONDUCTORS SHALL HAVE A FIVE-YEAR WARRANTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY WARRANTY INSPECTIONS FROM THE **EQUIPMENT SUPPLIER. NO INSTALLATIONS** WILL BE ACCEPTED WITHOUT PROOF OF WARRANTY. 1.9 GUARANTEE

- A. THE GUARANTEE FOR THE IRRIGATION SYSTEM SHALL BE MADE IN ACCORDANCE WITH THE ATTACHED FORM.
- A COPY OF THE GUARANTEE FORM SHALL BE INCLUDED IN THE OPERATIONS AND MAINTENANCE MANUAL
- THE GUARANTEE FORM SHALL BE RE-TYPED ONTO THE CONTRACTOR'S LETTERHEAD AND CONTAIN THE FOLLOWING INFORMATION:

#### 1.10 GUARANTEE FOR SPRINKLER IRRIGATION SYSTEM A. WE HEREBY GUARANTEE THAT THE SPRINKLER IRRIGATION SYSTEM WE HAVE FURNISHED AND INSTALLED IS FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP, AND THE WORK HAS BEEN COMPLETED IN ACCORDANCE

WITH THE DRAWINGS AND SPECIFICATIONS. ORDINARY WEAR AND TEAR AND UNUSUAL ABUSE, OR NEGLECT EXCEPTED. WE AGREE TO REPAIR OR REPLACE ANY DEFECTS IN MATERIAL OR WORKMANSHIP WHICH MAY DEVELOP DURING THE PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND ALSO TO REPAIR OR REPLACE ANY DAMAGE RESULTING FROM THE REPAIRING OR REPLACING OF SUCH DEFECTS AT NO ADDITIONAL COST TO THE OWNER. WE SHALL MAKE SUCH REPAIRS OR REPLACEMENTS

OUR EXPENSE AND WE WILL PAY THE COSTS

AND CHARGES THEREFORE UPON DEMAND.

PROJECT:

LOCATION:

SIGNED:

PHONE:

ADDRESS:

1.11 RULES AND REGULATIONS

NOT BE USED.

RESPONSIBILITY.

REPLACEMENTS.

AND FOREIGN MATTER.

A. ANY AND ALL DISCREPANCIES OF

UNSATISFACTORY WORK SHALL BE

1.13 CORRECTION OF WORK

CONTRACTOR.

SPECIFICATIONS.

PART 2 - PRODUCTS

DATE OF ACCEPTANCE:

A. WORK AND MATERIALS SHALL BE IN

THE GOVERNING AUTHORITIES.

AVOID UNDUE BENDING AND ANY

1.12 PROTECTION OF WORK AND MATERIALS

ACCORDANCE WITH THE LATEST EDITION OF

PLUMBING CODE AS PUBLISHED BY THE

THE NATIONAL ELECTRIC CODE, THE UNIFORM

WESTERN PLUMBING OFFICIALS ASSOCIATION.

AND APPLICABLE LAWS AND REGULATIONS OF

A. THE CONTRACTOR SHALL PROTECT HIS WORK

THE CONTRACT. HE SHALL PROTECT PIPES

AND FITTINGS FROM DIRECT SUNLIGHT, AND

FITTINGS THAT HAVE BEEN DAMAGED SHALL

B. THE CONTRACTOR SHALL EXERCISE EXTREME

CARE IN EXCAVATING AND WORKING NEAR

EXISTING UTILITIES. DAMAGE TO UTILITIES

OPERATION SHALL BE THE CONTRACTOR'S

AND PLANT MATERIAL THAT IS TO REMAIN.

SHALL REPAIR DAMAGE TO ITS ORIGINAL

D. ALL EXISTING IRRIGATION SYSTEMS SHALL BE

KEPT IN OPERATION AT ALL TIMES. IF THE

CONTRACTOR, HE SHALL BE RESPONSIBLE

FOR IMMEDIATE REPAIR OF SUCH DAMAGE.

REPAIRED SYSTEM SHALL BE REMOVED SO

CORRECTED BY THE CONTRACTOR AT NO

ADDITIONAL EXPENSE TO THE OWNER. THE

CORRECTION OF WORK SHALL BE FINISHED

AGREED UPON BETWEEN THE OWNER AND

WITH A REASONABLE PERIOD MUTUALLY

A. USE ONLY NEW MATERIALS OF BRANDS AND

TYPES NOTED ON THE DRAWINGS OR

THAT THE LINES CAN BE CLEARED OF ALL DIRT

AFTER EACH REPAIR, ALL HEADS OF THE

EXISTING SYSTEM IS DAMAGED BY

CONDITION OR FURNISH AND INSTALL EQUAL

PRECAUTIONS TO PROTECT SITE CONDITIONS

SHOULD DAMAGE TO INCURRED, CONTRACTOR

WHICH ARE CAUSED BY CONTRACTOR'S

C. THE CONTRACTOR SHALL TAKE NECESSARY

CONCENTRATED EXTERNAL LOADING. PIPE OR

AND WORK OF OTHERS FOR THE DURATION OF

INSTALLED IN A PVC SCHEDULE 40 SLEEVE. WITHIN A REASONABLE TIME, AS DETERMINED C. PIPE SHALL BE MADE FROM NSF APPROVED, BY THE OWNER, AFTER RECEIPT OF WRITTEN TYPE I, GRADE II PVC COMPOUND NOTICE. IN THE EVENT OF OUR FAILURE TO CONFORMING TO ASTM COMPOUND MAKE SUCH REPAIRS OR REPLACEMENTS SPECIFICATION D1784. ALL PIPE MUST MEET WITHIN A REASONABLE TIME AFTER RECEIPT REQUIREMENTS SET FORTH IN ASTM D2241 OF WRITTEN NOTICE FROM THE OWNER, WE (SOLVENT-WELD CLASS PIPE) WITH AN AUTHORIZE THE OWNER TO PROCEED TO HAVE APPROPRIATE STANDARD DIMENSION RATIO SAID REPAIRS OR REPLACEMENTS MADE AT

D. EXCEPT AS NOTED IN PARAGRAPHS A. B. C AND D OF SECTION 2.2, ALL REQUIREMENTS FOR NON-PRESSURE LATERAL LINE PIPE AND FITTINGS SHALL BE THE SAME AS FOR SOLVENT-WELD PRESSURE MAIN LINE PIPE AND FITTINGS AS SET FORTH IN THIS

2.2 PVC PRESSURE MAIN LINE PIPE AND FITTINGS

CONFORMING TO ASTM COMPOUND

CONFORMING TO ASTM COMPOUND

(SOLVENT-WELD SCHEDULE PIPE).

C. PVC SOLVENT-WELD FITTINGS SHALL BE

SCHEDULE 40. 1-2, II-I NSF APPROVED

D. SOLVENT CEMENT AND PRIMER FOR PVC

OF TYPE AND INSTALLATION METHODS

PRESCRIBED BY THE MANUFACTURER.

E. ALL PVC PIPE MUST BEAR THE FOLLOWING

MANUFACTURER'S NAME.

SCHEDULE OR CLASS.

4. PRESSURE RATING IN PSI.

7. ALL FITTINGS SHALL BEAR THE

MATERIAL DESIGNATION, SIZE,

A. NON-PRESSURE BURIED LATERAL LINE PIPING

INSTALLED UNDER PAVED AREAS SHALL BE

NOMINAL PIPE SIZE

6. DATE OF EXTRUSION.

OF APPROVAL

2.3 PVC NON-PRESSURE LATERAL LINE PIPING

SHALL BE PVC CLASS 200 WITH

B. NON-PRESSURE LATERAL LINE PIPING

SOLVENT-WELDED JOINTS.

**APPROVAL** 

MARKINGS:

CONFORMING TO ASTM TEST PROCEDURE

(SOLVENT-WELD CLASS PIPE), WITH AN

B. SCHEDULE 40 PIPE SHALL BE MADE FROM NSF

A. CLASS 315 PIPE SHALL BE MADE FROM AN NSF

APPROVED TYPE I, GRADE I, PVC COMPOUND

REQUIREMENTS AS SET FORTH IN ASTM D2241

APPROPRIATE STANDARD DIMENSION (S.D.R.)

APPROVED TYPE I, GRADE I PVC COMPOUND

SPECIFICATION D1784. ALL PIPE MUST MEET

REQUIREMENTS AS SET FORTH IN ASTM D1785

SOLVENT-WELD PIPE AND FITTINGS SHALL BE

5. NSF (NATIONAL SANITATION FOUNDATION)

MANUFACTURER'S NAME OR TRADEMARK,

APPLICABLE IPS SCHEDULE AND NSF SEAL

SPECIFICATION D1784. ALL PIPE MUST MEET

#### 2.4 BRASS PIPE AND FITTINGS

SPECIFICATION.

- A. WHERE INDICATED ON THE DRAWINGS, USE RED BRASS SCREWED PIPE CONFORMING TO FEDERAL SPECIFICATION #WW-P-351.
- FITTINGS SHALL BE RED BRASS CONFORMING TO FEDERAL SPECIFICATION #WW-P-460.

#### 2.5 BALL VALVES

- A. BALL VALVES 2" AND SMALLER SHALL BE 125 LB. SWP PLACTIC BALL VALVE WITH BLOW-OUT PROOF AND FULL PORT.
- B. BALL VALVES 2" AND SMALLER SHALL HAVE THREADED ENDS. REFER TO LEGEND FOR C. ALL BALL VALVES SHALL BE INSTALLED PER
- IRRIGATION INSTALLATION DETAILS.

#### 2.6 QUICK COUPLING VALVES

QUICK COUPLING VALVES SHALL HAVE A BRASS ONE-PIECE BODY DESIGNED FOR A WORKING PRESSURE OF 150 PSI, OPERABLE WITH QUICK COUPLER. KEY SIZE AND TYPE SHALL BE AS INDICATED ON THE DRAWINGS.

#### 2.7 BACKFLOW PREVENTION UNITS

- A. BACKFLOW PREVENTION UNITS SHALL BE OF SIZE AND TYPE INDICATED ON THE DRAWINGS. INSTALL BACKFLOW PREVENTION UNITS IN ACCORDANCE WITH THE DRAWINGS.
- B. WYE STRAINERS AT BACKFLOW PREVENTION UNITS SHALL HAVE A BRONZED SCREWED BODY WITH 60 MESH STAINLESS STEEL SCREEN AND SHALL BE SIMILAR TO THE BAILEY #100B OR APPROVED EQUAL
- C. ALL PRESSURE MAINLINE PIPING BETWEEN THE POINT OF CONNECTION AND THE BACKFLOW PREVENTER SHALL BE INSTALLED AS REQUIRED BY LOCAL CODE. THE CONTRACTOR SHALL VERIFY WITH THE LOCAL **GOVERNING BODY AS TO MATERIAL TYPE AND** INSTALLATION PROCEDURES PRIOR TO START OF CONSTRUCTION. SUBMIT SHOP DRAWING FOR APPROVAL.

#### 2.8 CHECK VALVES

- A. SWING CHECK VALVES 2" AND SMALLER SHALL BE 200 POUND WOG BRONZE CONSTRUCTION WITH REPLACEABLE COMPOSITION. NEOPRENE OR RUBBER DISC AND SHALL MEET

  2.12 VALVE BOXES OR EXCEED FEDERAL SPECIFICATION WW-V-51D. CLASS A. TYPE IV.
- CHECK VALVES SHALL BE OF HEAVY DUTY VIRGIN PVC CONSTRUCTION WITH FIP THREADED INLETS AND OUTLETS. INTERNAL PARTS SHALL BE STAINLESS STEEL AND NEOPRENE. CHECK VALVES SHALL BE FIELD ADJUSTABLE AGAINST DRAW-OUT FROM 5 TO 40 FEET OF HEAD. CHECK VALVES SHALL BE SIMILAR TO THE KING BROS. INDUSTRIES "CV" SERIES, OR EQUAL.

#### 2.9 CONTROL WIRE

CONTROLLERS AND THE ELECTRIC CONTROL VALVES SHALL BE MADE WITH DIRECT BURIAL COPPER WIRE AWG-U.F. 600 VOLT. CONTROL WIRES SHALL BE SHALL BE #14 GAUGE AND A DIFFERENT WIRE COLOR FOR EACH AUTOMATIC CONTROLLER. COMMON WIRES SHALL BE #14 GAUGE AND WHITE IN COLOR WITH A DIFFERENT COLOR STRIPE FOR EACH AUTOMATIC CONTROLLER. INSTALL WIRES IN ACCORDANCE WITH VALVE MANUFACTURER'S SPECIFICATIONS AND WIRE CHARTS. IN NO CASE SHALL WIRE SIZE BE LESS THAN #14 GAUGE. WIRE COLOR SHALL BE CONTINUOUS OVER ITS ENTIRE LENGTH

CONNECTIONS BETWEEN THE AUTOMATIC

- B. WIRING SHALL OCCUPY THE SAME TRENCH AND SHALL BE INSTALLED ALONG THE SAME ROUTE AS PRESSURE SUPPLY OR LATERAL LINES WHEREVER POSSIBLE
- C. WHERE MORE THAN ONE (1) WIRE IS PLACED IN A TRENCH, THE WIRING SHALL BE TAPED TOGETHER AT INTERVALS OF 10 FEET.
- D. AN EXPANSION CURL SHALL BE PROVIDED WITHIN THREE (3) FEET OF EACH WIRE CONNECTION. EXPANSION CURL SHALL BE OF SUFFICIENT LENGTH AT EACH SPLICE CONNECTION AT EACH ELECTRIC CONTROL. SO THAT IN CASE OF REPAIR, THE VALVE BONNET MAY BE BROUGHT TO THE SURFACE WITHOUT DISCONNECTING THE CONTROL WIRES. CONTROL WIRES SHALL BE LAID LOOSELY IN THE TRENCH WITHOUT STRESS OR STRETCHING OF THE CONTROL WIRE CONDUCTORS.
- E. ALL SPLICES SHALL BE MADE WITH EITHER 3M DBY/R CONNECTOR OR RAIN BIRD SNAP-TITE WIRE CONNECTOR, OR APPROVED EQUAL. USE ONE SPLICE PER CONNECTOR SEALING PACK.
- F. FIELD WIRE SPLICES BETWEEN THE AUTOMATIC CONTROLLER AND THE ELECTRICAL CONTROL VALVES SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- G. WHEN CONTROL WIRING IS TRENCHED SEPARATELY FROM MAINLINE TRENCHES A CONTINUOUS WARNING TAPE SHALL BE INSTALLED WITH THE WIRING. WARNING TAPE INERT PLASTIC FILM HIGHLY RESISTANT TO ALKALIS, ACIDS, OR OTHER DESTRUCTIVE CHEMICAL COMPONENTS LIKELY TO BE ENCOUNTERED IN SOILS. THREE INCHES WIDE, COLORED YELLOW, AND IMPRINTED WITH "CAUTION: BURIED ELECTRIC LINE BELOW."
- H. PROVIDE A 36-INCH EXCESS LENGTH OF WIRE IN AN 8-INCH DIAMETER LOOP AT EACH 90 DEGREE CHANGE OF DIRECTION, AT BOTH ENDS OF SLEEVES, AND AT 100-FOOT INTERVALS ALONG CONTINUOUS RUNS OF WIRING. DO NOT TIE WIRING LOOP.
- INSTALL COMMON GROUND WIRE AND ONE CONTROL WIRE FOR EACH REMOTE CONTROL VALVE. MULTIPLE VALVES ON A SINGLE CONTROL WIRE ARE NOT PERMITTED. INSTALL ONE COMMON WIRE FOR EACH CONTROLLER. MULTIPLE CONTROLLERS WITH ONE COMMON WIRE WILL NOT BE PERMITTED.
- CONTRACTOR SHALL ROUTE **TWO** ADDITIONAL 'CONTROL' WIRES AND **ONE** ADDITIONAL 'COMMON' WIRE ALONG ENTIRE MAINLINE ROUTE AND ALONG EACH AND EVERY LEG OF MAINLINE ROUTE. ROUTE WIRES INTO EACH AND EVERY RCV VALVE BOX. WHERE VALVE BOXES ARE GROUPED INTO A MANIFOLD, ROUTE WIRES INTO FIRST VALVE BOX ON MANIFOLD ONLY.

#### 2.10 AUTOMATIC IRRIGATION CONTROLLERS

- A. AUTOMATIC IRRIGATION CONTROLLERS SHALL BE OF THE SIZE AND TYPE AS THAT INDICATED ON THE DRAWINGS.
- B. FINAL LOCATION OF AUTOMATIC IRRIGATION CONTROLLERS SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. C. UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE 120 VOLT ELECTRICAL POWER

TO THE AUTOMATIC IRRIGATION CONTROLLER

SHALL BE FURNISHED BY OTHERS. THE FINAL ELECTRICAL HOOK-UP SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR D. THE AUTOMATIC IRRIGATION CONTROLLER SHALL BE INCLUDED AS A PART OF THE IRRIGATION CONTROLLER ENCLOSURE

#### 2.11 ELECTRICAL CONTROL VALVES A. ALL ELECTRIC CONTROL VALVES SHALL BE THE

ASSEMBLY.

- SAME MANUFACTURER AS THE AUTOMATIC CONTROLLERS UNLESS NOTED OTHERWISE ON THE DRAWINGS. B. ALL ELECTRIC CONTROL VALVES SHALL HAVE
- A MANUAL FLOW ADJUSTMENT. C. PROVIDE AND INSTALL ONE (1) CONTROL VALVE BOX FOR EACH ELECTRIC CONTROL

VALVE

- A. USE A 10" DIAMETER SPECIFICATION ROUND VALVE BOX FOR GATE VALVES, BALL VALVES, CONTROL WIRE SPLICES, AND QUICK COUPLING VALVES AS MANUFACTURED BY RAIN BIRD, MODEL #VB-RND WITH GREEN OR BLACK COVER. EXTENSION SLEEVES SHALL BE 6" MINIMUM PVC PIPING MATERIAL
- B. USE A RECTANGULAR SPECIFICATION GRADE VALVE BOX FOR ELECTRICAL CONTROL VALVES, MASTER VALVES, FLOW SENSORS, AND CONTROL WIRE PULL BOXES. AS MANUFACTURED BY RAIN BIRD, MODEL **#VB-STD WITH A GREEN OR BLACK COVER.** C. USE A JUMBO RECTANGULAR SPECIFICATION

GRADE VALVE BOX FOR DRIP ZONE ASSEMBLY

RAIN BIRD, MODEL #VB-JMB WITH A GREEN OR BLACK COVER. D. VALVE BOXES SHALL BE A MINIMUM OF ONE (1) FOOT APART WHEN ARRANGED IN A GROUP OR SIDE BY SIDE, OR UNLESS NOTED OTHERWISE IN THE DRAWINGS.

CONTROL VALVES, AS MANUFACTURED BY

#### 2.13 SPRINKLER HEADS

- A. ALL SPRINKLER HEADS SHALL BE OF THE SAME SIZE, TYPE, AND DELIVER THE SAME RATE OF PRECIPITATION WITH THE DIAMETER (OR RADIUS) OF THROW, PRESSURE, AND DISCHARGE AS SHOWN ON THE DRAWINGS AND IN THIS SPECIFICATION.
- B. SPRAY HEADS SHALL HAVE A SCREW ADJUSTMENT.
- C. RISER UNITS SHALL BE FABRICATED IN ACCORDANCE WITH THE DRAWINGS.
- D. RISER NIPPLES FOR ALL SPRINKLER HEADS SHALL BE THE SAME SIZE AS THE RISER OPENING IN THE SPRINKLER BODY
- E. ALL SPRINKLER HEADS OF THE SAME TYPE SHALL BE FROM THE SAME MANUFACTURER.

#### 2.14 IDENTIFICATION TAGS

- A. IDENTIFICATION TAGS FOR ELECTRICAL CONTROL VALVES, AND OTHER EQUIPMENT ASSEMBLIES AS DESIGNATED ON DRAWINGS SHALL BE MANUFACTURED FROM POLYURETHANE BEHR DESOPAN. USE CHRISTY'S STANDARD TAG HOT STAMPED WITH BLACK LETTERS ON YELLOW BACKGROUND. THE TAGS SHALL BE NUMBERED TO MATCH STATION IDENTIFICATION AS INDICATED ON DRAWINGS. PROVIDE ONE (1) TAG FOR EACH ELECTRIC CONTROL VALVE
- B. SPECIAL ORDER TAGS FROM T. CHRISTY ENTERPRISES, (714)771-4142.

#### 2.15 SLEEVING

- A. INSTALL SEPARATE SLEEVE BENEATH PAVED AREAS TO ROUTE EACH RUN OF IRRIGATION PIPE OR WIRING BUNDLE
- B. SLEEVING MATERIAL BENEATH PEDESTRIAN PAVEMENTS - ASTM D3034 PVC GRAVITY SEWER PIPE.
- C. SLEEVING BENEATH STREETS AND DRIVES ASTM D3034 PVC GRAVITY SEWER PIPE. D. SLEEVING DIAMETER - EQUAL TO TWICE THAT
- SLEEVING DIAMETER SHALL BE 2 INCHES. E. MARKING STAKES - 2" X 2" X 24" WOOD STAKES.

#### 2.16 OTHER COMPONENTS A. TOOLS AND SPARE PARTS

SYSTEM.

PROVIDE OPERATING KEYS, SERVICING TOOLS, TEST EQUIPMENT, OTHER ITEMS, AND SPARE PARTS AS INDICATED IN

OF THE PIPE OR WIRING BUNDLE. MINIMUM

OTHER AREAS OF THIS SPECIFICATION. B. OTHER MATERIALS 1. PROVIDE OTHER MATERIALS OR **EQUIPMENT NOT INDICATED ON THE** DRAWINGS OR REFERENCED IN THIS SPECIFICATION, AS

NECESSARY, TO COMPLETE THE

INSTALLATION OF THE IRRIGATION

03/15/21 100% DESIGN DEVELOPMENT

Issued for:

Revisions:



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CONSTRUCTION

1905 & 1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016,015

# **MILESTONE**

481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030

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Plan Date: 06.02.2021

Scale: See Sheet

IRRIGATION SPECIFICATIONS

Sheet No.:

Plan Status: CONSTRUCTION

DOCUMENTS

#### PART 3 - EXECUTION 3.1 GENERAL

- A. ALL SCALED DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL CHECK AND VERIFY ALL SIZE DIMENSIONS AND RECEIVE THE OWNER'S AUTHORIZED REPRESENTATIVE'S APPROVAL PRIOR TO PROCEEDING WITH ANY WORK UNDER THIS SPECIFICATION. CONTRACTOR SHALL LOCATE WITH 2" X 2" WOOD STAKES WITH IDENTIFYING MARKINGS FOR ALL PROPOSED LOCATIONS OF ELECTRICAL CONTROL VALVE BOXES, GATE VALVE BOXES AND QUICK COUPLER BOXES FOR APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE. AFTER LOCATING ALL THESE ITEMS CONTACT THE OWNER'S AUTHORIZED REPRESENTATIVE FOR **REVIEW AND APPROVAL. MINOR** ADJUSTMENTS TO THE STAKE LOCATIONS MAY BE REQUESTED OF THE CONTRACTOR BY THE OWNER'S **AUTHORIZED REPRESENTATIVE AT THAT**
- B. EXERCISE EXTREME CARE IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO THESE UTILITIES WHICH ARE CAUSED BY HIS OPERATIONS. CHECK EXISTING UTILITY DRAWINGS FOR EXISTING UTILITY LOCATIONS
- C. COORDINATE INSTALLATION OF SPRINKLER IRRIGATION MATERIALS INCLUDING PIPE, SO THAT THERE SHALL BE NO INTERFERENCE WITH UTILITIES. CONSTRUCTION ELEMENTS, OR THE PLANTING OF TREES, SHRUBS, AND GROUND COVERS.
- D. THE CONTRACTOR SHALL CAREFULLY CHECK ALL FINISH GRADES TO SATISFY HIMSELF THAT HE MAY SAFELY PROCEED BEFORE STARTING WORK ON THE IRRIGATION SYSTEM.
- E. REPORT IRREGULARITIES TO OWNER'S **AUTHORIZED REPRESENTATIVE PRIOR** TO BEGINNING WORK. BEGINNING OF WORK IMPLIES ACCEPTANCE OF **EXISTING CONDITIONS.**

#### 3.2 SITE PREPARATION

- A. PHYSICAL LAYOUT
  - PRIOR TO INSTALLATION, THE CONTRACTOR SHALL STAKE OUT ALL PRESSURE AND NON-PRESSURE SUPPLY LINES AND THE LOCATION OF ALL SPRINKLER HEADS.
  - ALL LAYOUT SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
- B. WATER SUPPLY POINT-OF-CONNECTIONS WATER SUPPLY POINTS OF CONNECTION ARE AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES CAUSED BY ACTUAL SITE CONDITIONS.
  - 2. THE SPRINKLER IRRIGATION SYSTEM SHALL BE CONNECTED TO WATER SUPPLY POINTS OF CONNECTION AS INDICATED ON THE DRAWINGS.
- C. ELECTRICAL SUPPLY POINT-OF-CONNECTIONS 1. ELECTRICAL SUPPLY

CONDITIONS.

- POINT-OF-CONNECTIONS FOR THE **AUTOMATIC IRRIGATION CONTROLLERS ARE AS INDICATED** ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES CAUSED BY ACTUAL SITE
- 2. CONNECTIONS SHALL BE MADE AT APPROXIMATE LOCATIONS AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES CAUSED BY ACTUAL SITE CONDITIONS.

#### 3.3 INSTALLATION A. TRENCHING

- 1. DIG TRENCHES STRAIGHT AND SUPPORT PIPE CONTINUOUSLY ON BOTTOM OF TRENCH. LAY PIPE TO AN EVEN GRADE. TRENCHING **EXCAVATION SHALL FOLLOW THE** LAYOUT AS INDICATED ON THE
- DRAWINGS. 2. PROVIDE A MINIMUM SOIL COVER OF 18 INCHES FOR ALL PRESSURE SUPPLY LINES.
- 3. PROVIDE A MINIMUM SOIL COVER OF 12 INCHES FOR ALL NON- PRESSURE

- PROVIDE A MINIMUM SOIL COVER OF 18 INCHES FOR ALL CONTROL WIRE.
- WHERE PIPING IS INDICATED UNDER PAVED AREAS, BUT RUNNING PARALLEL AND ADJACENT TO PLANTING AREAS, INSTALL THE PIPING IN THE PLANTED AREAS. IRRIGATION HEAD SPACING AS INDICATED ON THE DRAWINGS SHALL NOT BE EXCEEDED.
- B. BACKFILLING
  - THE TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL REQUIRED TESTS ARE PERFORMED. TRENCHES SHALL BE CAREFULLY BACKFILLED WITH THE EXCAVATED MATERIALS APPROVED FOR BACKFILLING, CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND, OR OTHER APPROVED MATERIALS, FREE FROM LARGE CLODS OF EARTH OR STONES. BACKFILL SHALL BE MECHANICALLY COMPACTED LANDSCAPED AREAS TO A DRY **DENSITY EQUAL TO ADJACENT** UNDISTURBED SOIL IN PLANTING AREAS. BACKFILL SHALL CONFORM TO ADJACENT GRADES WITHOUT DIPS, SUNKEN AREAS, HUMPS OR OTHER SURFACE IRREGULARITIES
  - A FINE GRANULAR MATERIAL **BACKFILL SHALL BE INITIALLY** PLACED OVER ALL LINES. NO FOREIGN MATTER LARGER THAN ONE-HALF INCH IN SIZE WILL BE PERMITTED IN THE INITIAL BACKFILL
  - 3. FLOODING OF TRENCHES WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE OWNER'S **AUTHORIZED REPRESENTATIVE**
- 4. IF SETTLEMENT OCCURS AND SUBSEQUENT ADJUSTMENTS IN PIPE, VALVES, SPRINKLER HEADS, PLANTING, OR OTHER CONSTRUCTION ELEMENTS ARE NECESSARY, THE CONTRACTOR SHALL MAKE ALL REQUIRED ADJUSTMENTS WITHOUT COST TO THE OWNER.
- C. TRENCHING AND BACKFILLING UNDER **PAVING** 
  - TRENCHES LOCATED UNDER AREAS WHERE ASPHALTIC CONCRETE OR CONCRETE PAVING OCCUR, SHALL BE BACKFILLED WITH SAND (A LAYER SIX (6) INCHES BELOW THE PIPE AND THREE (3) INCHES ABOVE THE PIPE) AND COMPACTED IN LAYERS TO 95% COMPACTION. USING MANUAL OR MECHANICAL TAMPING DEVICES TRENCHES FOR PIPING SHALL BE COMPACTED TO EQUAL THE COMPACTION OF THE EXISTING ADJACENT UNDISTURBED SOIL AND SHALL BE LEFT IN A FIRM UNYIELDING CONDITION. ALL TRENCHES SHALL BE LEFT FLUSH WITH ADJOINING FINISH GRADE. THE CONTRACTOR SHALL SET IN PLACE. CAP AND PRESSURE TEST ALL PIPING UNDER PAVING PRIOR TO THE PAVING WORK
  - GENERALLY PIPING UNDER EXISTING WALKS IS DONE BY JACKING. BORING OR HYDRAULIC DRIVING. BUT WHERE ANY CUTTING OR BREAKING OF CONCRETE IS NECESSARY, IT SHALL BE DONE AND REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. PERMISSION TO CUT OR BREAK **CONCRETE SHALL BE OBTAINED** FROM THE OWNER'S AUTHORIZED REPRESENTATIVE. NO HYDRAULIC DRIVING WILL BE PERMITTED UNDER
- CONCRETE PAVING. 3. PROVIDE A MINIMUM SOIL COVER OF 18 INCHES BETWEEN THE TOP OF THE PIPE AND THE BOTTOM OF THE AGGREGATE BASE FOR ALL PRESSURE AND NON-PRESSURE PIPING INSTALLED UNDER
- ASPHALTIC CONCRETE PAVING. 4. THE CONTRACTOR SHALL MAKE ALL REQUIRED ADJUSTMENTS WITHOUT COST TO THE OWNER.
- D. ASSEMBLIES
- 1. ROUTING OF IRRIGATION LINES AS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC ONLY. INSTALL LINES AND VARIOUS ASSEMBLIES IN SUCH A MANNER AS TO CONFORM WITH THE DRAWINGS.
- 2. INSTALL NO MULTIPLE ASSEMBLIES IN PLASTIC LINES. PROVIDE EACH ASSEMBLY WITH ITS OWN OUTLET.

- 3. INSTALL ALL ASSEMBLIES SPECIFIED HEREIN IN ACCORDANCE WITH THEIR RESPECTIVE DETAILS. IN ABSENCE OF DRAWINGS OR SPECIFICATIONS PERTAINING TO SPECIFIC ITEMS REQUIRED TO COMPLETE THIS WORK, PERFORM SUCH WORK IN ACCORDANCE WITH BEST STANDARD PRACTICE WITH PRIOR APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 4. PVC PIPE AND FITTINGS SHALL BE THOROUGHLY CLEANED OF DIRT **DUST AND MOISTURE BEFORE** INSTALLATION. INSTALLATION AND SOLVENT WELDING METHODS SHALL BE AS RECOMMENDED BY THE PIPE AND FITTING MANUFACTURER
- 5. ON PVC TO METAL CONNECTIONS WORK THE METAL CONNECTIONS FIRST. TEFLON TAPE OR APPROVED EQUAL, SHALL BE USED ON ALL THREADED PVC TO PVC AND THREADED PVC TO METAL JOINTS. APPLY A LIGHT WRENCH PRESSURE ONLY. WHERE THREADED PVC CONNECTIONS ARE REQUIRED, USE THREADED PVC ADAPTERS INTO WHICH THE PIPE MAY BE SOLVENT WELDED.
- E. ASSEMBLING PIPE AND FITTINGS: INSPECT ALL PIPE AND FITTINGS
- BEFORE INSTALLATION KEEP PIPE FREE FROM DIRT AND PIPE SCALE. CUT PIPE ENDS SQUARE AND DEBUR. CLEAN PIPE **ENDS OF LOOSE PIPE SHAVINGS**
- 3. KEEP ENDS OF ASSEMBLED PIPE CAPPED. REMOVE CAPS ONLY WHEN NECESSARY TO CONTINUE
- 4. INSTALL PIPE WITH ALL MARKINGS UP FOR VISUAL INSPECTION AND VERIFICATION.
- ALL LINES SHALL HAVE A MINIMUM CLEARANCE OF SIX (6) INCHES FROM EACH OTHER AND FROM LINES OF OTHER TRADES. PARALLEL LINES SHALL NOT BE INSTALLED DIRECTLY 3.4 TEMPORARY REPAIRS OVER ONE ANOTHER
- 6. MAINTAIN 10 FOOT MINIMUM HORIZONTAL SEPARATION FROM ALL POTABLE WATER PIPING. WHERE RECLAIMED AND POTABLE WATER PRESSURE MAIN LINE PIPING CROSS, THE RECLAIMED WATER PIPING SHALL BE INSTALLED BELOW THE POTABLE WATER PIPING IN SCHEDULE 40 PVC WHICH EXTENDS A MINIMUM OF FIVE (5) FEET ON EITHER SIDE OF THE POTABLE WATER PIPING. PROVIDE A MINIMUM VERTICAL CLEARANCE OF SIX (6)
- INCHES. 7. USE ONLY STRAP-TYPE FRICTION WRENCHES FOR THREADED PLASTIC 8. SNAKE PIPE FROM SIDE TO SIDE
- WITHIN THE TRENCH. F. LINE CLEARANCE 1. ALL LINES SHALL HAVE A MINIMUM
- CLEARANCE OF SIX (6) INCHES FROM EACH OTHER AND FROM LINES OF OTHER TRADES. PARALLEL LINES SHALL NOT BE INSTALLED DIRECTLY **OVER ONE ANOTHER**
- G. IRRIGATION CONTROLLER
  - INSTALLATION 1. INSTALL THE IRRIGATION **CONTROLLER PER THE** MANUFACTURER'S INSTRUCTIONS. REMOTE CONTROL VALVES SHALL BE CONNECTED TO THE IRRIGATION CONTROLLER IN NUMERICAL SEQUENCE AS INDICATED ON THE DRAWINGS.
- H. ELECTRIC CONTROL VALVE
- INSTALLATION 1. INSTALL ELECTRIC CONTROL VALVES AS INDICATED ON THE DRAWINGS. WHEN GROUPED TOGETHER, ALLOW AT LEAST TWELVE INCHES BETWEEN **ELECTRIC CONTROL VALVES** INSTALL EACH ELECTRIC CONTROL VALVE IN A SEPARATE VALVE BOX. EACH ELECTRIC CONTROL VALVE NUMBER SHALL BE HEAT-BRANDED ON VALVE BOX TOP WITH 2" TALL
- LETTERS. 2. THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL APPROVE ELECTRIC CONTROL VALVE AND QUICK COUPLING VALVE BOX LOCATIONS PRIOR TO FINAL INSTALLATION.

- VALVE BOX INSTALLATION INSTALL VALVE BOXES AS INDICATED ON THE DRAWINGS. WHEN GROUPED TOGETHER, ALLOW
- VALVE BOXES. 2. HEAT BRAND VALVE BOX **IDENTIFICATION AS INDICATED ON** DRAWINGS. HEAT BRANDING UNIT **AVAILABLE FROM HYDRO-SCAPE** PRODUCTS, INC., PHONE NUMBER (714) 639-1850.

AT LEAST TWELVE INCHES BETWEEN

- SYSTEM FLUSHING AFTER ALL PIPE LINES AND RISERS ARE IN PLACE AND CONNECTED AND ALL NECESSARY DIVERSION WORK HAS BEEN COMPLETED, AND PRIOR TO INSTALLATION OF SPRINKLER HEADS, THE CONTROL VALVES SHALL BE OPENED AND A FULL HEAD OF WATER USED TO FLUSH OUT THE SYSTEM. SPRINKLER HEADS SHALL
- BEEN PERFORMED. K. SPRINKLER HEAD INSTALLATION INSTALL THE SPRINKLER HEADS AS INDICATED ON THE DRAWINGS.

BE INSTALLED ONLY AFTER

FLUSHING OF THE SYSTEM HAS

- SPACING OF SPRINKLER HEADS SHALL NOT EXCEED THE MAXIMUM SPACING AS INDICATED ON THE DRAWINGS. IN NO CASE SHALL THE SPACING EXCEED THE MAXIMUM RECOMMENDED BY THE **MANUFACTURER**
- 3. INSTALL CHECK VALVES ON SPRINKLER HEADS THAT DRAIN WATER AFTER THE CONTROL VALVE IS TURNED OFF. "LOW HEAD" DRAINAGE WILL NOT BE ALLOWED ON SPRINKLER HEADS.
- L. SLEEVING EXTEND SLEEVE ENDS A MINIMUM OF 12 INCHES BEYOND THE EDGE OF THE PAVED SURFACE. COVER PIPE ENDS AND MARK WITH STAKES. ROUTE WIRE THROUGH AND TIE AT EACH END TO STAKES

A. THE OWNER RESERVES THE RIGHT TO MAKE TEMPORARY REPAIRS AS NECESSARY TO KEEP THE IRRIGATION SYSTEM IN OPERATING CONDITION. THE **EXERCISE OF THIS RIGHT BY THE** OWNER SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES UNDER THE TERMS OF THE GUARANTEE AS HEREIN.

#### 3.5 EXISTING TREES

A. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES AND THEIR ROOTS. EXCAVATION IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. ALL ROOTS TWO (2) INCHES AND LARGER IN DIAMETER, EXCEPT DIRECTLY IN THE PATH OF PIPE OR CONDUIT, SHALL BE TUNNELED UNDER AND SHALL BE HEAVILY WRAPPED WITH BURLAP, TO PREVENT SCARRING OR EXCESSIVE DRYING. WHERE A DITCHING MACHINE IS RUN CLOSE TO TREES HAVING ROOTS SMALLER THAN TWO (2) INCHES IN DIAMETER, THE WALL OF THE TRENCH ADJACENT TO THE TREE SHALL BE HAND TRIMMED. ROOTS ONE (1) INCH 3.8 CLEAN UP AND LARGER IN DIAMETER SHALL BE PAINTED WITH TWO COATS OF AN APPROVED TREE SEAL. TRENCHES ADJACENT TO EXISTING TREES SHOULD BE CLOSED WITHIN 24 HOURS. WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE EXISTING TREE SHALL BE KEPT SHADED WITH

#### 3.6 FIELD QUALITY CONTROL

BURLAP OR CANVAS.

- A. ADJUSTMENT OF THE IRRIGATION
- 1. FLUSH AND ADJUST ALL SPRINKLER **HEADS FOR OPTIMUM** PERFORMANCE AND TO REDUCE OVERSPRAY ONTO WALKS. ROADWAYS, AND BUILDINGS AS MUCH AS POSSIBLE.
- 2. IF IT IS DETERMINED THAT ADJUSTMENTS TO THE SPRINKLER HEADS WILL PROVIDE PROPER AND MORE ADEQUATE COVERAGE, THE CONTRACTOR SHALL MAKE SUCH ADJUSTMENTS PRIOR TO ANY PLANTING. ADJUSTMENTS MAY ALSO INCLUDE CHANGES IN NOZZLE SIZES AND DEGREES OF ARC AS REQUIRED.

- 3. LOWERING RAISED SPRINKLER HEADS BY THE CONTRACTOR SHALL BE ACCOMPLISHED WITHIN 10 DAYS AFTER NOTIFICATION BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 4. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADES UNLESS OTHERWISE INDICATED ON THE DRAWINGS
- B. IRRIGATION SYSTEM TESTING THE CONTRACTOR SHALL REQUEST THE PRESENCE OF THE OWNER'S AUTHORIZED REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE OF
- IRRIGATION SYSTEM TESTING. 2. TEST ALL PRESSURE LINES UNDER HYDROSTATIC PRESSURE OF 150 PSI
- FOR A PERIOD OF TWO (2) HOURS NOTE: TESTING OF PRESSURE MAINLINE SHALL OCCUR PRIOR TO INSTALLATION OF ANY ELECTRIC CONTROL VALVES.
- 3. IF DURING THE PRESSURE TEST, A PRESSURE DROP OCCURS INDICATING A LEAK, REPLACE THE FAULTY JOINTS AND REPEAT THE PRESSURE TEST UNTIL THE ENTIRE SYSTEM IS PROVEN WATERTIGHT.
- 4. ALL HYDROSTATIC TESTS SHALL BE MADE ONLY IN THE PRESENCE OF THE OWNER'S AUTHORIZED REPRESENTATIVE. NO PIPE SHALL BE BACKFILLED UNTIL IT HAS BEEN OBSERVED, TESTED AND APPROVED IN WRITING
- THE CONTRACTOR IS TO FURNISH THE NECESSARY FORCE PUMP AND ALL OTHER TEST EQUIPMENT FOR THE HYDROSTATIC PRESSURE TEST.
- 6. WHEN THE IRRIGATION SYSTEM PASSES THE HYDROSTATIC PRESSURE TEST AND IS COMPLETED, PERFORM A SPRINKLER COVERAGE TEST IN THE PRESENCE OF THE OWNER'S AUTHORIZED REPRESENTATIVE. DETERMINE IF THE WATER **COVERAGE IS COMPLETE AND** ADEQUATE. FURNISH ALL MATERIALS AND PERFORM ALL WORK NECESSARY TO CORRECT ANY INADEQUACIES OF WATER **COVERAGE DUE TO DEVIATIONS** FROM THE DRAWINGS, OR WHERE THE IRRIGATION SYSTEM HAS BEEN WILLFULLY INSTALLED AS INDICATED 4.1 GENERAL CONDITIONS ON THE DRAWINGS WHEN IT IS OBVIOUSLY INADEQUATE, WITHOUT BRINGING THIS TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. THIS TEST SHALL BE ACCOMPLISHED BEFORE ANY **GROUNDCOVER OR TURF IS**
- PLANTED. 7. UPON COMPLETION OF EACH PHASE 4.2 SUMMARY OF WORK, THE ENTIRE SYSTEM SHALL BE COVERAGE TESTED AND ADJUSTED TO MEET SPECIFIC SITE REQUIREMENTS.

#### 3.7 IRRIGATION SYSTEM MAINTENANCE

- A. THE ENTIRE IRRIGATION SYSTEM SHALL BE UNDER FULL, AUTOMATIC OPERATION FOR A PERIOD OF SEVEN (7) DAYS PRIOR TO BEGINNING ANY PLANTING. THE OWNER RESERVES THE RIGHT TO WAIVE OR SHORTEN THIS OPERATION PERIOD.
- A. CLEAN UP SHALL BE MADE AS EACH PORTION OF WORK PROGRESSES. REFUSE AND EXCESS DIRT SHALL BE REMOVED FROM THE SITE, ALL WALKS AND PAVING SHALL BE BROOM SWEPT OR WASHED DOWN, AND ANY DAMAGE SUSTAINED TO THE WORK OF OTHER CONTRACTORS SHALL BE REPAIRED TO ORIGINAL CONDITIONS AT NO COST TO THE OWNER
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SMOOTH ALL GROUND SURFACES. REMOVE EXCESS MATERIALS SUCH AS RUBBISH, DEBRIS AND SWEEP ADJACENT STREETS, CURBS, GUTTERS, WALKWAYS AND TRAILS. REMOVE CONSTRUCTION EQUIPMENT FROM THE PREMISES.

#### 3.9 FINAL WALK-THROUGH PRIOR TO **ACCEPTANCE**

A. THE CONTRACTOR SHALL OPERATE THE IRRIGATION SYSTEM IN ITS ENTIRETY FOR THE OWNER'S AUTHORIZED REPRESENTATIVE AT TIME OF THE FINAL WALK THROUGH. ANY ITEMS DEEMED NOT ACCEPTABLE BY THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE REWORKED TO THE HIS COMPLETE SATISFACTION.

B. THE CONTRACTOR SHALL SHOW **EVIDENCE TO THE OWNER'S** AUTHORIZED REPRESENTATIVE THAT THE OWNER HAS RECEIVED ALL ACCESSORIES, CHARTS, "AS-BUILT DRAWINGS". AND EQUIPMENT AS REQUIRED BEFORE THE FINAL WALK THROUGH WILL BE PERFORMED

#### 3.10 SITE VISIT OBSERVATION SCHEDULE

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER'S AUTHORIZED REPRESENTATIVE IN ADVANCE OF THE FOLLOWING SITE VISITS:
  - 1. PRE-JOB OR "KICK-OFF" MEETING 7 DAYS. 2. PRESSURE SUPPLY LINE
  - **INSTALLATION AND TESTING 2**
  - 3. AUTOMATIC CONTROLLER
  - INSTALLATION 2 DAYS. 4. CONTROL WIRE INSTALLATION - 2
  - DAYS. LATERAL LINE AND SPRINKLER HEAD
  - **INSTALLATION 2 DAYS.** 6. SPRINKLER COVERAGE TEST - 2
- 7. FINAL WALKTHROUGH 7 DAYS B. WHEN SITE VISITS ARE CONDUCTED BY OTHER THAN THE OWNER'S AUTHORIZED REPRESENTATIVE, SHOW EVIDENCE IN WRITING OF WHEN AND BY WHOM THESE
- SITE VISITS WERE MAD C. NO SITE VISITS WILL COMMENCE WITHOUT "AS-BUILTS". IN THE EVENT THE CONTRACTOR SCHEDULES A SITE VISIT WITHOUT "AS-BUILTS" OR WITHOUT COMPLETING PREVIOUSLY NOTED CORRECTIONS, OR WITHOUT PREPARING THE SYSTEM FOR SAID VISIT, THE CONTRACTOR BE RESPONSIBLE FOR REIMBURSING THE OWNER'S AUTHORIZED REPRESENTATIVE AT HIS **CURRENT BILLING RATE PER HOUR** PORTAL TO PORTAL (PLUS TRANSPORTATION COSTS) FOR THIS INCONVENIENCE. NO FURTHER SITE VISITS WILL BE PERFORMED BY THE OWNER'S AUTHORIZED

#### PART 4 - DRIP IRRIGATION SYSTEM: GENERAL

HAS BEEN PAID AND RECEIVED.

A. THE REQUIREMENTS OF THE "GENERAL CONDITIONS OF THE CONTRACT" AND OF DIVISION 1, "GENERAL REQUIREMENTS", SHALL APPLY TO ALL WORK IN THIS SECTION WITH THE SAME FORCE AND EFFECT AS THOUGH REPEATED IN FULL HEREIN.

REPRESENTATIVE UNTIL THIS CHARGE

- A. CONDITIONS WITHIN IRRIGATION SYSTEM SPECIFICATION SECTION 02810 SHALL APPLY TO THIS SECTION. B. THIS SECTION INCLUDES THE
  - INSTALLATION OF LOW VOLUME IRRIGATION COMPONENTS INCLUDING CONTROL ZONE KITS AND INLINE DRIP TUBING.

#### **PART 5 - DRIP IRRIGATION PRODUCTS**

#### 5.1 CONTROL ZONE KITS

- A. GENERAL
  - 1. CONTROL ZONE KIT ASSEMBLIES FOR DRIP IRRIGATION ZONES MUST INCLUDE A VALVE, FILTRATION AND PRESSURE REGULATION TO MEET THE FLOW REQUIREMENTS OF THE ZONE. WHERE NECESSARY A CHECK VALVE SHALL ALSO BE
  - INSTALLED. 2. CONTROL ZONE KITS SHALL BE RAIN BIRD CONTROL ZONE KITS AS INDICATED ON CONSTRUCTION DRAWINGS.
- 3. COMPONENTS SHALL BE SIZED ACCORDING TO THE HYDRAULIC **DEMANDS OF THE SYSTEM**
- B. RAIN BIRD CONTROL ZONE KIT COMMERCIAL CONTROL ZONE KIT FOR ZONES WITH FLOWS FROM 0.25 TO 9.0 GPM
  - a. CONTROL ZONE KIT SHALL INCLUDE A 1" PESB VALVE, BASKET FILTER WITH 200-MESH (75 MICRON) SCREEN WITH A **BUILT-IN 40 PSI PRESSURE** REGULATOR, OR APPROVED EQUIVALENT.
  - b. THE CONTROL ZONE KIT SHALL HAVE A 1" ISOLATION BALL VALVE.

- COMMERCIAL CONTROL ZONE KIT FOR ZONES WITH FLOWS FROM 10.0 TO 18.0 GPM
  - a. CONTROL ZONE KIT SHALL INCLUDE A 1-1/2" PESB VALVE, TW0 (2) BASKET FILTERS WITH 200-MESH (75 MICRON) SCREEN WITH A BUILT-IN 40 PSI PRESSURE REGULATOR, OR APPROVED EQUIVALENT.
- b. THE CONTROL ZONE KIT SHALL HAVE A 1-1/2" ISOLATION BALL **VALVE**

a. THE FILTER SHALL HAVE A 1"

#### C. BASKET FILTER

- INLINE QUICK CHECK BASKET FILTER BODY CONSTRUCTED OF HEAVY-DUTY, GLASS-FILLED, UV RESISTANT POLYPROPYLENE CAPABLE OF WITHSTANDING PRESSURES OF NOT LESS THAN 150 PSI (10,3 BARS). THE DESIGN SHALL BE A BASKET STYLE BODY WITH JAR-TOP CAP. THE CAP SHALL INCORPORATE AN INDICATOR THAT GOES FROM GREEN TO RED DURING OPERATION WHEN THE FILTER ELEMENT NEEDS CLEANING. THE DIMENSIONS FOR THE FILTER SHALL NOT EXCEED THE FOLLOWING: HEIGHT:  $6\frac{1}{2}$ " (16,5) CM), LENGTH:  $6\frac{1}{2}$ " (16,5 CM), WIDTH:  $3\frac{1}{2}$ " (8,9 CM). THE FILTER ELEMENT SHALL BÉ CONSTRUCTED OF A DURABLE STAINLESS STEEL MESH ATTACHED TO A PROPYLENE FRAME AND SHALL BE 200-MESH (75 MICRON). THE SCREEN SHALL BE SERVICEABLE FOR **CLEANING PURPOSES BY** UNSCREWING THE CAP FROM THE BODY AND REMOVING THE FILTER ELEMENT.
- D. PRESSURE REGULATOR a. THE CONTROL ZONE KIT SHALL
  - HAVE THE PRESSURE REGULATOR BUILT INTO THE BASKET FILTER. THE PRESSURE REGULATING **DEVICE IS A NORMALLY OPEN** DEVICE THAT ALLOWS FULL FLOW WITH LITTLE PRESSURE LOSS UNLESS THE INLET PRESSURE IS GREATER THAN THE PRESET LEVEL. AS THE INLET PRESSURE INCREASES ABOVE THE PRESET LEVEL IT COMPRESSES A SPRING AND BEGINS TO REDUCE THE FLOW AND DOWNSTREAM PRESSURE. THE INLINE PRESSURE REGULATOR SHALL HAVE A PRESET OUTLET PRESSURE OF APPROXIMATELY 40
- PSI (2,8 BAR). REMOTE CONTROL VALVE
- a. THE CONTROL ZONE KIT SHALL HAVE AN AUTOMATIC IRRIGATION CONTROL VALVE. THE VALVE PRESSURE RATING NOT TO BE LESS THAN 200 PSI (13,8 BAR). THE VALVE **BODY AND BONNET SHALL BE** CONSTRUCTED OF HIGH-IMPACT, WEATHER-RESISTANT GLASS FILLED NYLON, STAINLESS STEEL AND OTHER CHEMICAL/UV RESISTANT MATERIALS. THE VALVE SHALL HAVE A DIAPHRAGM CONSTRUCTED OF A DURABLE BUNA-N RUBBER MATERIAL REINFORCED WITH

#### 5.3 POINT SOURCE DRIP EMISSION DEVICE

NYLON.

COLOR.

- A. EMITTERS 1/2 GPH EMITTER, MODEL XB-05PC-1032, SHALL BE BLUE IN
- 1 GPH EMITTER, MODEL XB-10PC-1032. SHALL BE BLACK IN COLOR. 2 GPH EMITTER, MODEL
- COLOR. 4. EACH EMITTER SHALL HAVE A 1032 THREADED INLET FOR ATTACHMENT

XB-20PC-1032, SHALL BE RED IN

TO A PFR-FRA POLY FLEX RISER. 5. EACH EMITTER SHALL BE PRESSURE COMPENSATING FROM 15-50 PSI.

Revisions:

03/15/21 100% DESIGN DEVELOPMENT



Newport Beach, CA 92663 **3** 949.675.9964 mis-la.com

NOT FOR CONSTRUCTION

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## **MILESTONE**

481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030

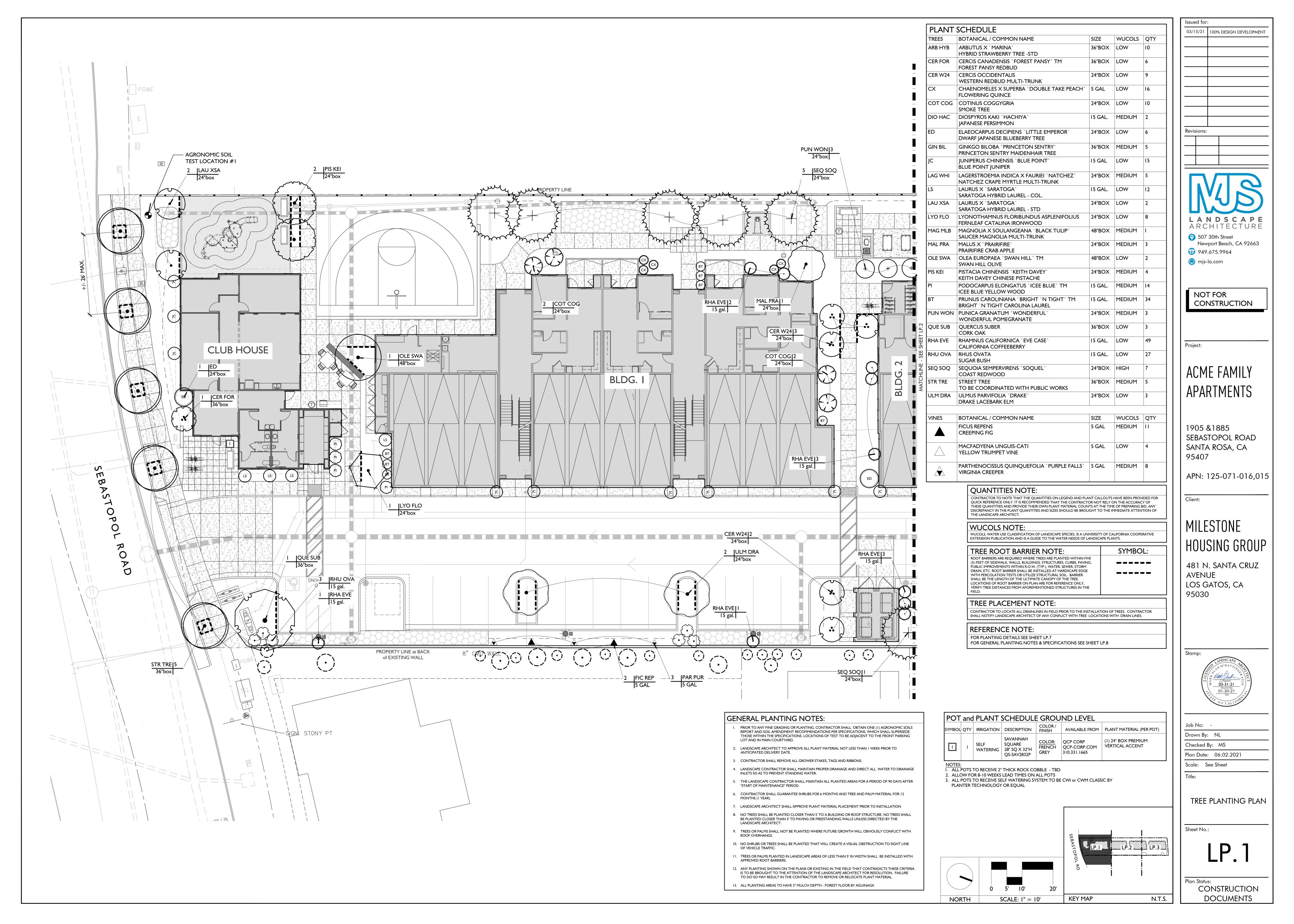
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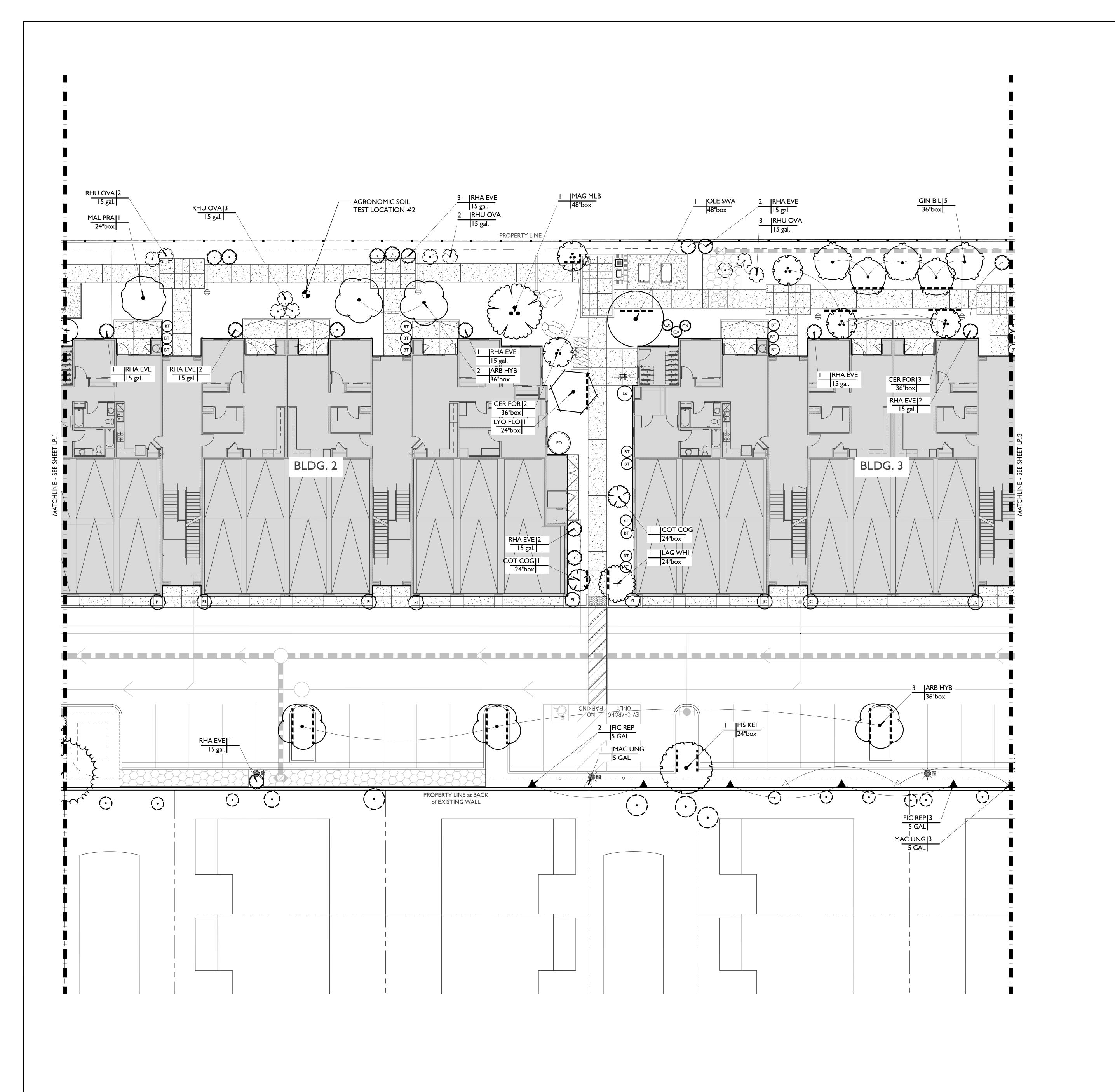
Drawn By: NL Checked By: MS

Plan Date: 06.02.2021 Scale: See Sheet

> IRRIGATION **SPECIFICATIONS**

Sheet No.:





TREES	BOTANICAL / COMMON NAME	SIZE	WUCOLS	QTY
ARB HYB	ARBUTUS X `MARINA` HYBRID STRAWBERRY TREE -STD	36"BOX	LOW	10
CER FOR	CERCIS CANADENSIS `FOREST PANSY` TM FOREST PANSY REDBUD	36"BOX	LOW	6
CER W24	CERCIS OCCIDENTALIS WESTERN REDBUD MULTI-TRUNK	24"BOX	LOW	9
CX	CHAENOMELES X SUPERBA `DOUBLE TAKE PEACH` FLOWERING QUINCE	5 GAL	LOW	16
COT COG	COTINUS COGGYGRIA SMOKE TREE	24"BOX	LOW	10
DIO HAC	DIOSPYROS KAKI `HACHIYA` JAPANESE PERSIMMON	I5 GAL.	MEDIUM	2
ED	ELAEOCARPUS DECIPIENS `LITTLE EMPEROR` DWARF JAPANESE BLUEBERRY TREE	24"BOX	LOW	6
GIN BIL	GINKGO BILOBA `PRINCETON SENTRY` PRINCETON SENTRY MAIDENHAIR TREE	36"BOX	MEDIUM	5
JC	JUNIPERUS CHINENSIS `BLUE POINT` BLUE POINT JUNIPER	15 GAL	LOW	15
LAG WHI	LAGERSTROEMIA INDICA X FAURIEI `NATCHEZ` NATCHEZ CRAPE MYRTLE MULTI-TRUNK	24"BOX	MEDIUM	5
LS	LAURUS X `SARATOGA` SARATOGA HYBRID LAUREL - COL.	15 GAL.	LOW	12
LAU XSA	LAURUS X `SARATOGA` SARATOGA HYBRID LAUREL - STD	24"BOX	LOW	2
LYO FLO	LYONOTHAMNUS FLORIBUNDUS ASPLENIFOLIUS FERNLEAF CATALINA IRONWOOD	24"BOX	LOW	8
MAG MLB	MAGNOLIA X SOULANGEANA `BLACK TULIP` SAUCER MAGNOLIA MULTI-TRUNK	48"BOX	MEDIUM	I
MAL PRA	MALUS X `PRAIRIFIRE` PRAIRIFIRE CRAB APPLE	24"BOX	MEDIUM	3
OLE SWA	OLEA EUROPAEA `SWAN HILL` TM SWAN HILL OLIVE		LOW	2
PIS KEI	PISTACIA CHINENSIS `KEITH DAVEY` KEITH DAVEY CHINESE PISTACHE	24"BOX	MEDIUM	4
PI	PODOCARPUS ELONGATUS `ICEE BLUE` TM ICEE BLUE YELLOW WOOD	15 GAL.	MEDIUM	14
ВТ	PRUNUS CAROLINIANA `BRIGHT `N TIGHT` TM BRIGHT `N TIGHT CAROLINA LAUREL	15 GAL.	MEDIUM	34
PUN WON	PUNICA GRANATUM `WONDERFUL` WONDERFUL POMEGRANATE	24"BOX	MEDIUM	3
QUE SUB	QUERCUS SUBER CORK OAK	36"BOX	LOW	3
RHA EVE	RHAMNUS CALIFORNICA `EVE CASE` CALIFORNIA COFFEEBERRY	15 GAL.	LOW	49
RHU OVA	RHUS OVATA SUGAR BUSH	15 GAL.	LOW	27
SEQ SOQ	SEQUOIA SEMPERVIRENS `SOQUEL` COAST REDWOOD	24"BOX	HIGH	7
STR TRE	STREET TREE TO BE COORDINATED WITH PUBLIC WORKS	36"BOX	MEDIUM	5
ULM DRA	ULMUS PARVIFOLIA `DRAKE` DRAKE LACEBARK ELM	24"BOX	LOW	3
VINES	BOTANICAL / COMMON NAME	SIZE	WUCOLS	QTY
	FICUS REPENS CREEPING FIG	5 GAL	MEDIUM	11
	MACFADYENA UNGUIS-CATI YELLOW TRUMPET VINE	5 GAL	LOW	4
$\triangle$	PARTHENOCISSUS QUINQUEFOLIA `PURPLE FALLS` VIRGINIA CREEPER	5 GAL	MEDIUM	8

QUANTITIES NOTE:

CONTRACTOR TO NOTE THAT THE QUANTITIES ON LEGEND AND PLANT CALLOUTS HAVE BEEN PROVIDED FOR QUICK REFERENCE ONLY. IT IS RECOMMENDED THAT THE CONTRACTOR NOT RELY ON THE ACCURACY OF THESE QUANTITIES AND PROVIDE THEIR OWN PLANT MATERIAL COUNTS AT THE TIME OF PREPARING BID. ANY DISCREPANCY IN THE PLANT QUANTITIES AND SIZES SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT.

WUCOLS NOTE:

WUCOLS, WATER USE CLASSIFICATION OF LANDSCAPE SPECIES, IS A UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION PUBLICATION AND IS A GUIDE TO THE WATER NEEDS OF LANDSCAPE PLANTS.

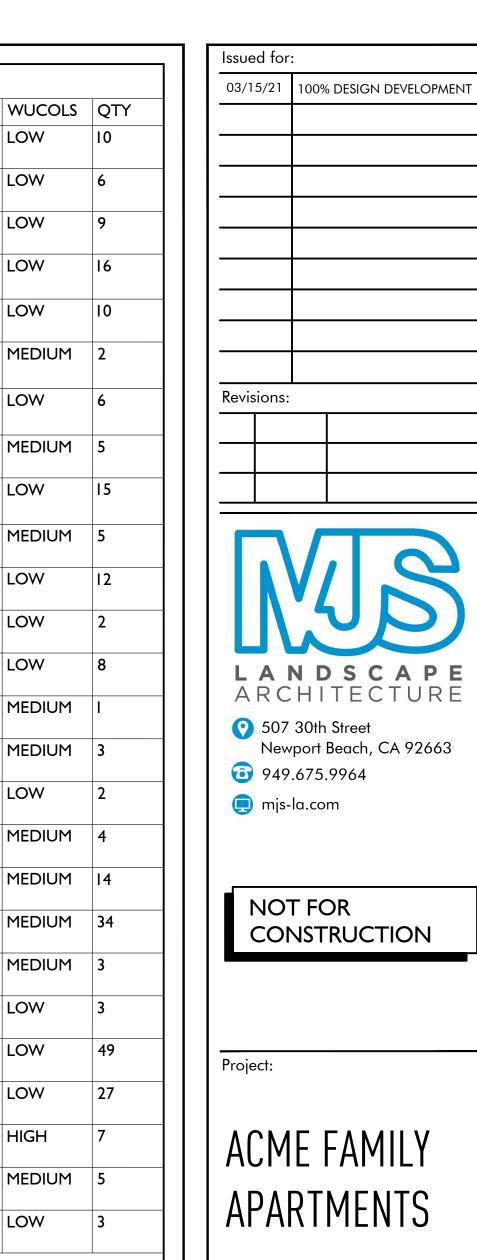
TREE ROOT BARRIER NOTE:	SYMBOL:
ROOT BARRIERS ARE REQUIRED WHERE TREES ARE PLANTED WITHIN FIVE (5) FEET OF SIDEWALK, WALLS, BUILDINGS, STRUCTURES, CURBS, PAVING, PUBLIC IMPROVEMENTS WITHIN R.O.W. (TYP.), WATER, SEWER, STORM DRAIN, ETC. ROOT BARRIER SHALL BE INSTALLED AT HARDSCAPE EDGE WITH PERCOLATION TESTS OR UTILIZE STRUCTURAL SOIL. BARRIER SHALL BE THE LENGTH OF THE ULTIMATE CANOPY OF THE TREE. LOCATIONS OF ROOT BARRIER ON PLAN ARE FOR REFERENCE ONLY, VERIFY TREE DISTANCES FROM AFOREMENTIONED STRUCTURES IN THE	

TREE PLACEMENT NOTE:

CONTRACTOR TO LOCATE ALL DRAINLINES IN FIELD PRIOR TO THE INSTALLATION OF TREES. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICT WITH TREE LOCATIONS WITH DRAIN LINES.

REFERENCE NOTE:

FOR PLANTING DETAILS SEE SHEET LP.7 FOR GENERAL PLANTING NOTES & SPECIFICATIONS SEE SHEET LP.8



MILESTONE HOUSING GROUP

481 N. SANTA CRUZ AVENUE LOS GATOS, CA 95030

1905 &1885

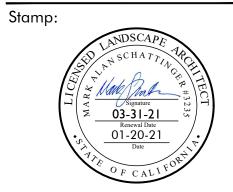
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Client:

SEBASTOPOL ROAD

APN: 125-071-016,015

SANTA ROSA, CA



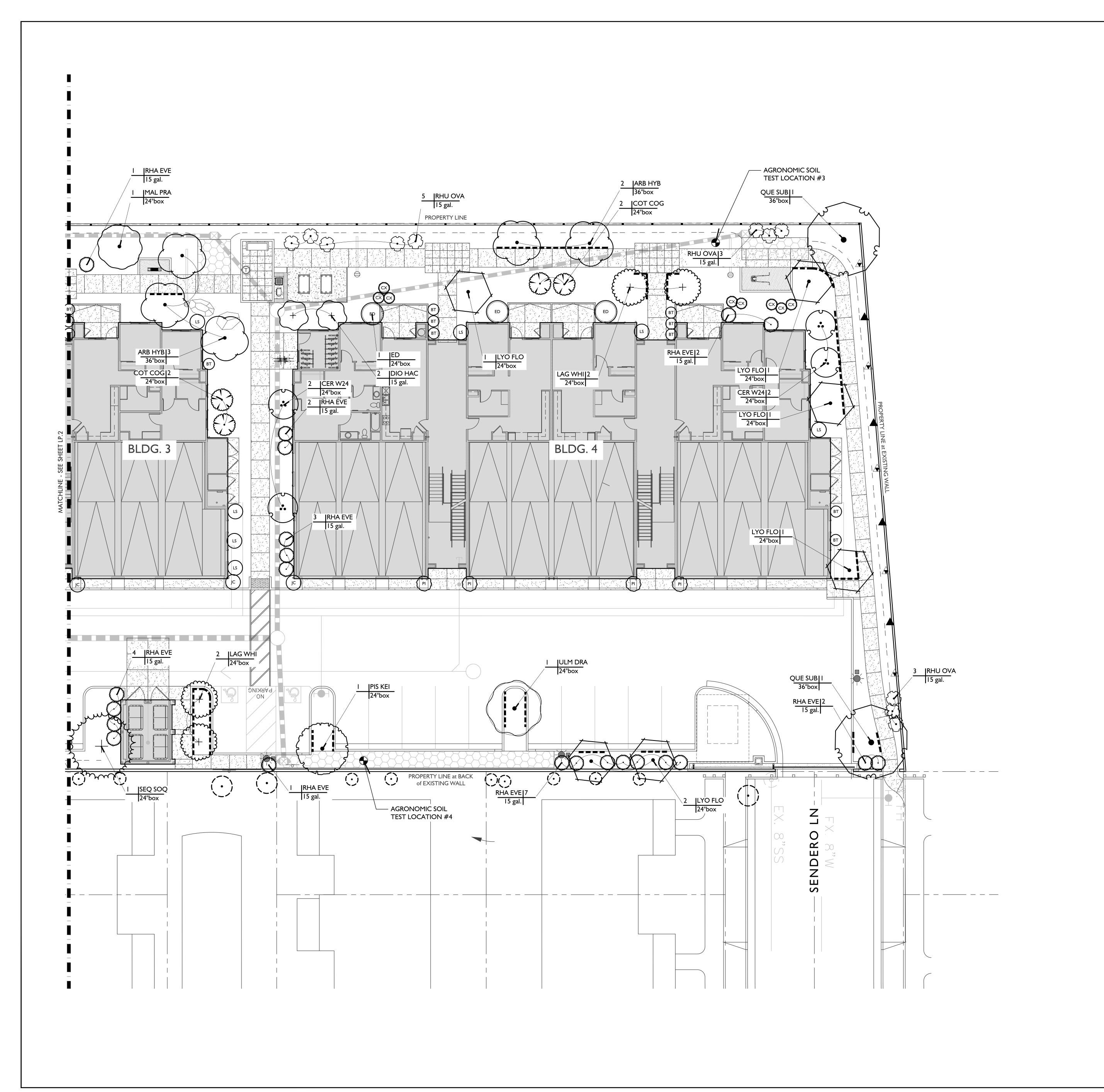
Job No: Drawn By: NL Checked By: MS

Plan Date: 06.02.2021 Scale: See Sheet

TREE PLANTING PLAN

Plan Status:
CONSTRUCTION DOCUMENTS

KEY MAP SCALE: I" = 10'





#### QUANTITIES NOTE:

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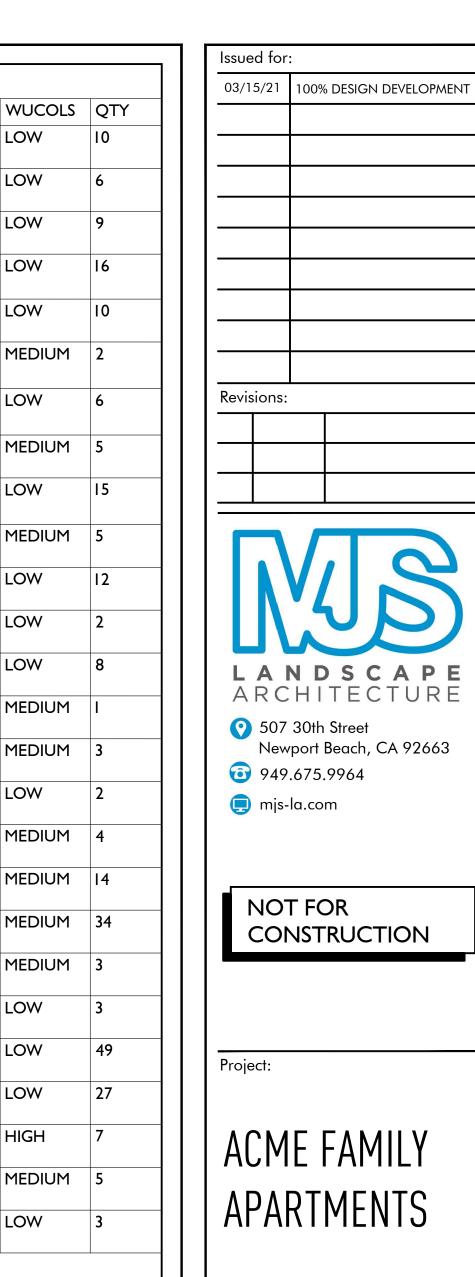
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KEY MAP

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APN: 125-071-016,015

SEBASTOPOL ROAD

SANTA ROSA, CA

1905 & 1885

Client:

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## MILESTONE HOUSING GROUP

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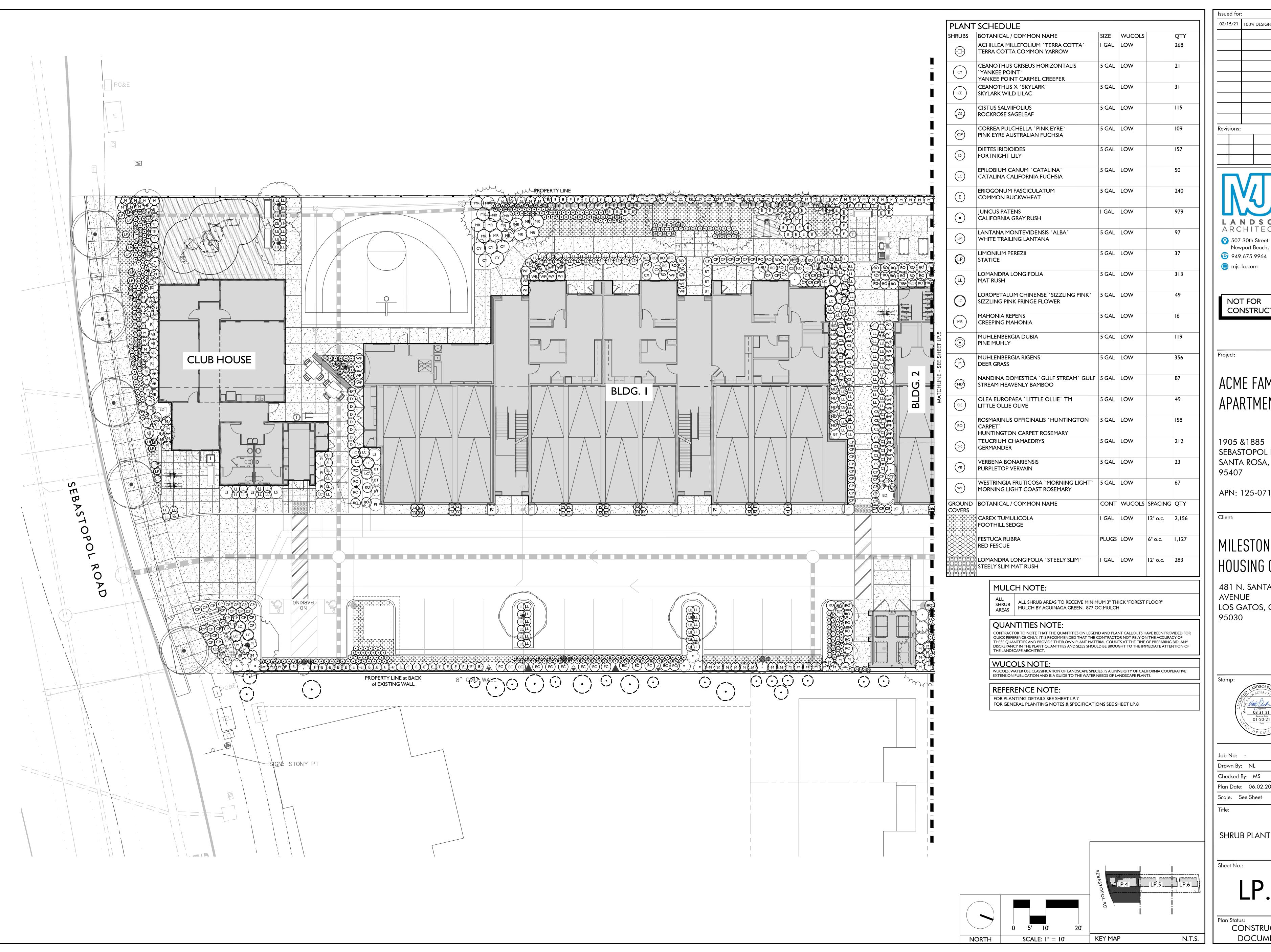
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Job No: -Drawn By: NL Checked By: MS Plan Date: 06.02.2021

Scale: See Sheet

TREE PLANTING PLAN

Sheet No.:



03/15/21 100% DESIGN DEVELOPMENT LANDSCAPE ARCHITECTURE

Newport Beach, CA 92663 **3** 949.675.9964

NOT FOR CONSTRUCTION

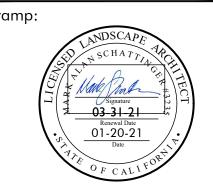
# **ACME FAMILY**

SEBASTOPOL ROAD SANTA ROSA, CA

APN: 125-071-016,015

## MILESTONE HOUSING GROUP

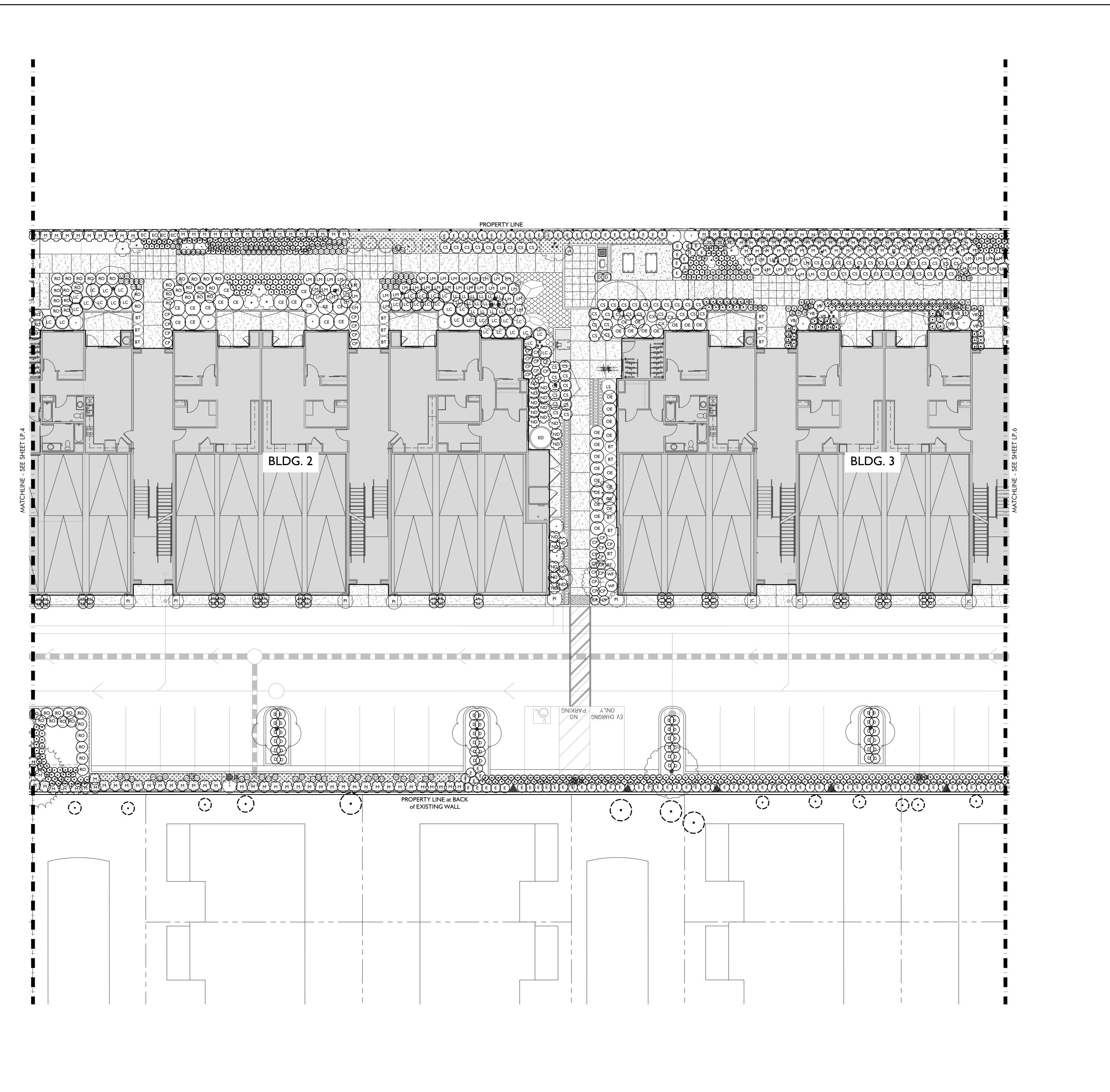
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Plan Date: 06.02.2021 Scale: See Sheet

SHRUB PLANTING PLAN





### MULCH NOTE:

ALL SHRUB AREAS TO RECEIVE MINIMUM 3" THICK "FOREST FLOOR" MULCH BY AGUINAGA GREEN. 877.OC.MULCH

QUANTITIES NOTE:

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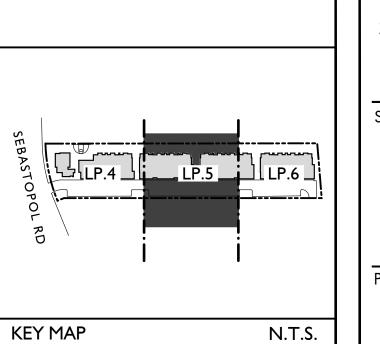
FOR GENERAL PLANTING NOTES & SPECIFICATIONS SEE SHEET LP.8

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**WUCOLS NOTE:** 

FOR PLANTING DETAILS SEE SHEET LP.7



Issued for: 03/15/21 100% DESIGN DEVELOPMENT Revisions: LANDSCAPE ARCHITECTURE 507 30th Street Newport Beach, CA 92663 **3** 949.675.9964 🗐 mjs-la.com NOT FOR CONSTRUCTION Project:

Client:

APN: 125-071-016,015

**APARTMENTS** 

SEBASTOPOL ROAD

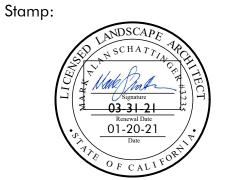
SANTA ROSA, CA

1905 & 1885

95407

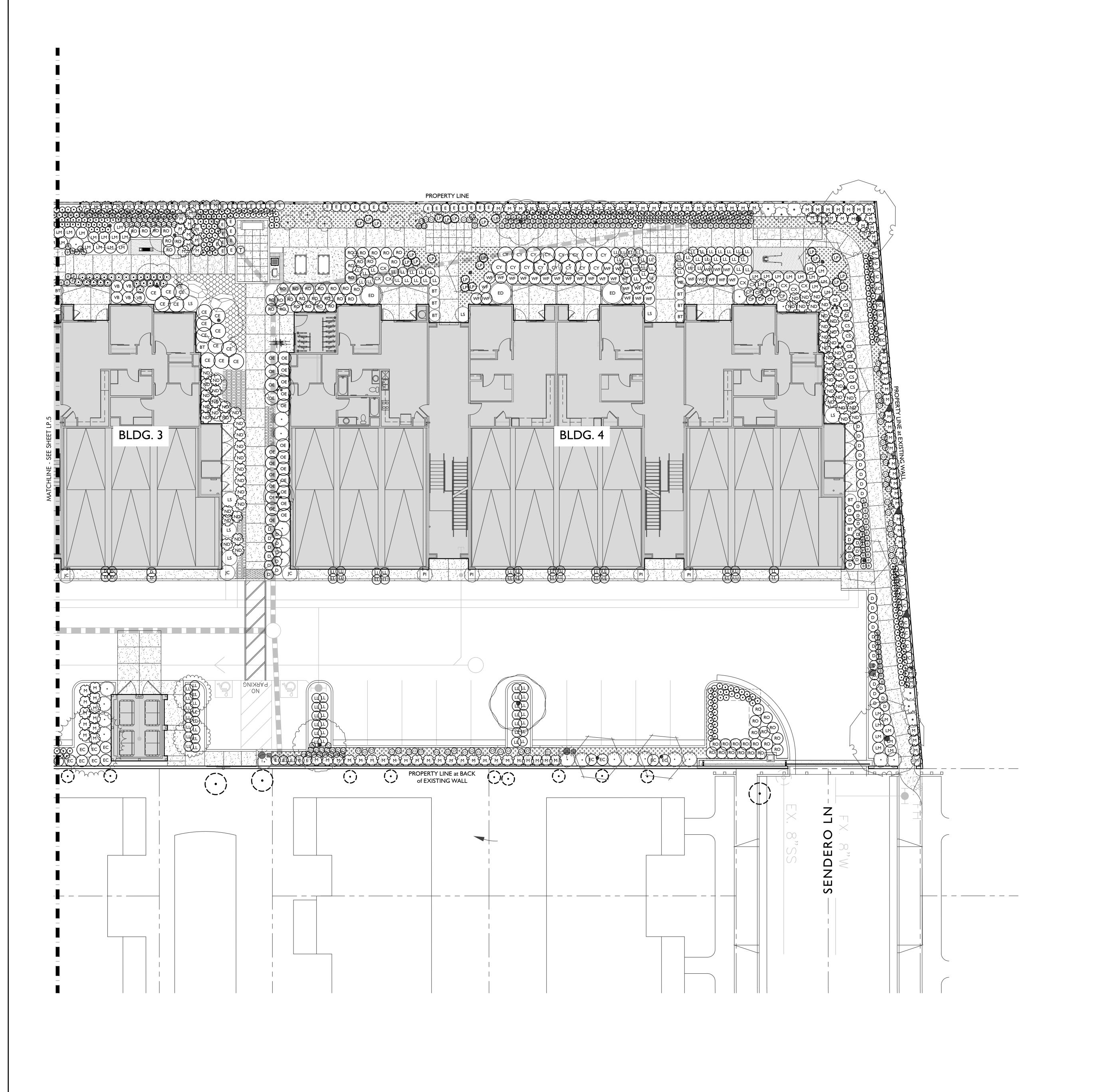
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Scale: See Sheet



SHRUBS	SCHEDULE BOTANICAL / COMMON NAME	SIZE	WUCOLS		QTY
	ACHILLEA MILLEFOLIUM `TERRA COTTA`	I GAL	LOW		268
	TERRA COTTA COMMON YARROW	0, (2	2011		200
СУ	CEANOTHUS GRISEUS HORIZONTALIS 'YANKEE POINT' YANKEE POINT CARMEL CREEPER	5 GAL	LOW		21
CE	CEANOTHUS X `SKYLARK` SKYLARK WILD LILAC	5 GAL	LOW		31
(CS)	CISTUS SALVIIFOLIUS ROCKROSE SAGELEAF	5 GAL	LOW		115
CP	CORREA PULCHELLA `PINK EYRE` PINK EYRE AUSTRALIAN FUCHSIA	5 GAL	LOW		109
D	DIETES IRIDIOIDES FORTNIGHT LILY	5 GAL	LOW		157
EC	EPILOBIUM CANUM `CATALINA` CATALINA CALIFORNIA FUCHSIA	5 GAL	LOW		50
E	ERIOGONUM FASCICULATUM COMMON BUCKWHEAT	5 GAL	LOW		240
•	JUNCUS PATENS CALIFORNIA GRAY RUSH	I GAL	LOW		979
LM	LANTANA MONTEVIDENSIS `ALBA` WHITE TRAILING LANTANA	5 GAL	LOW		97
(LP)	LIMONIUM PEREZII STATICE	5 GAL	LOW		37
(LL)	LOMANDRA LONGIFOLIA MAT RUSH	5 GAL	LOW		313
(LC)	LOROPETALUM CHINENSE `SIZZLING PINK` SIZZLING PINK FRINGE FLOWER	5 GAL	LOW		49
MR	MAHONIA REPENS CREEPING MAHONIA	5 GAL	LOW		16
<b></b>	MUHLENBERGIA DUBIA PINE MUHLY	5 GAL	LOW		119
(M)	MUHLENBERGIA RIGENS DEER GRASS	5 GAL	LOW		356
(ND)	NANDINA DOMESTICA `GULF STREAM` GULF STREAM HEAVENLY BAMBOO	5 GAL	LOW		87
(OE)	OLEA EUROPAEA `LITTLE OLLIE` TM LITTLE OLLIE OLIVE	5 GAL	LOW		49
RO	ROSMARINUS OFFICINALIS `HUNTINGTON CARPET` HUNTINGTON CARPET ROSEMARY	5 GAL	LOW		158
*	TEUCRIUM CHAMAEDRYS GERMANDER	5 GAL	LOW		212
VB	VERBENA BONARIENSIS PURPLETOP VERVAIN	5 GAL	LOW		23
WF	WESTRINGIA FRUTICOSA `MORNING LIGHT` MORNING LIGHT COAST ROSEMARY	5 GAL	LOW		67
GROUND COVERS	,	CONT		SPACING	
	CAREX TUMULICOLA FOOTHILL SEDGE	I GAL	LOW	12" o.c.	2,156
	FESTUCA RUBRA RED FESCUE	PLUGS	LOW	6" o.c.	1,127
	LOMANDRA LONGIFOLIA `STEELY SLIM` STEELY SLIM MAT RUSH	I GAL	LOW	12" o.c.	283

### MULCH NOTE:

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#### REFERENCE NOTE:

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FOR GENERAL PLANTING NOTES & SPECIFICATIONS SEE SHEET LP.8

MILESTONE HOUSING GROUP

03/15/21 100% DESIGN DEVELOPMENT

LANDSCAPE ARCHITECTURE

507 30th Street Newport Beach, CA 92663

CONSTRUCTION

ACME FAMILY

**APARTMENTS** 

SEBASTOPOL ROAD

APN: 125-071-016,015

SANTA ROSA, CA

1905 &1885

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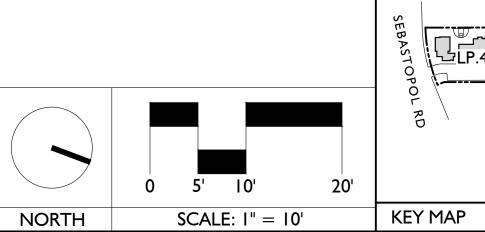
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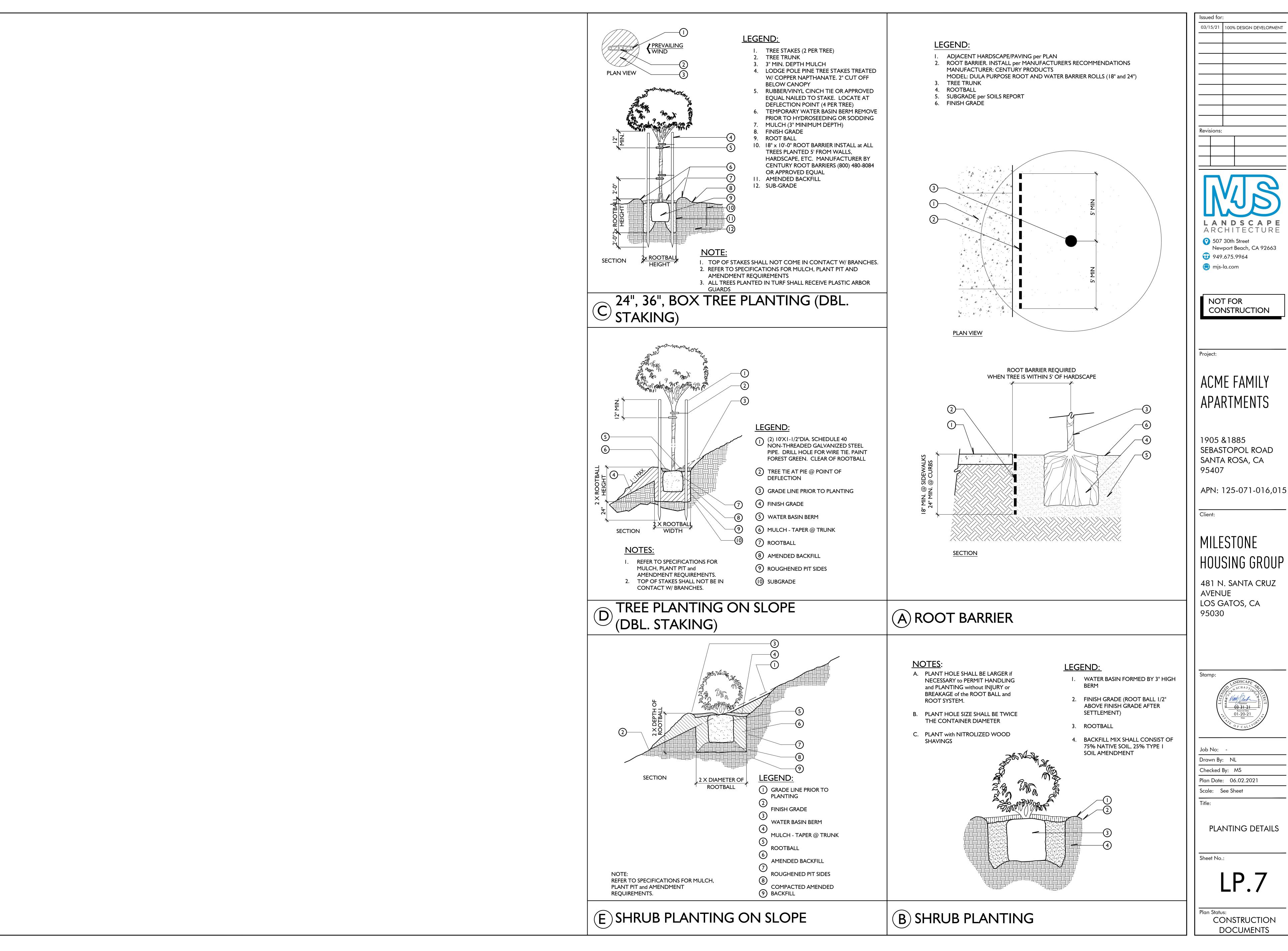
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Scale: See Sheet

Sheet No.:

SHRUB PLANTING PLAN





PLANTING DETAILS

CONSTRUCTION DOCUMENTS

#### A. GENERAL NOTES

- BIDDING: IT SHALL BE THE OWNER'S RESPONSIBILITY IN INVITING AND OBTAINING BIDS, SETTING ITS PROVISIONS AND INSTRUCTIONS TO BIDDERS, SECURING THEIR BONDS AND WORKERS COMPENSATION INSURANCE CERTIFICATES, ETC. TO FULLY ENSURE THE QUALITY AND TIMELY COMPLETION OF THE PROJECT.
- SCOPE OF WORK: CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO FURNISH AND INSTALL A COMPLETE ALL LANDSCAPING PER THE DRAWINGS AND SPECIFIED WITHIN.
- PLAN VERIFICATION: THESE DOCUMENTS MAY CONTAIN ERRORS, OMISSIONS, CONTRADICTIONS, ETC. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS THOROUGHLY AND SHALL NOTIFY THE LANDSCAPE ARCHITECT AND OWNER IMMEDIATELY UPON ANY SUCH DISCOVERY OF DISCREPANCY. GOVERNING CODES SHALL THEN APPLY.
- LICENSE: THE CONTRACTOR SHALL BE A C-27 CALIFORNIA STATE LICENSED LANDSCAPE CONTRACTOR.
- ORDINANCES AND REGULATIONS: ALL LANDSCAPE PLANTING WITHIN THESE DRAWINGS AND SPECIFICATIONS SHALL CONFORM TO ALL APPLICABLE GOVERNING CODES AND ORDINANCES (LOCAL, COUNTY & STATE).
- PERMITS AND INSPECTIONS: THE CONTRACTOR SHALL OBTAIN, COORDINATE AND PAY FOR ALL PERMITS, FEES AND AGENCY INSPECTIONS AS REQUIRED.
- FIELD VERIFICATION: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE NOTIFIED IMMEDIATELY UPON ANY DISCOVERY OF DISCREPANCIES. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE LANDSCAPE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- LIABLE FOR ENCROACHMENT: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ENCROACHMENT ONTO ADJACENT PROPERTY, RIGHT-OF-WAYS, EASEMENTS, SET-BACKS OR ANY OTHER LEGAL PROPERTY RESTRICTIONS EITHER MARKED OR UNMARKED.
- METHODS OF CONSTRUCTION: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, SEQUENCES, PROCEDURES AND TECHNIQUES. THE LANDSCAPE ARCHITECTURAL FIRM IS NOT LIABLE FOR CONSTRUCTION METHODS.
- 10. SAFETY: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS DURING CONSTRUCTION.
- UTILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES. ELECTRICAL CABLES, CONDUITS, AND IRRIGATION LINES PRIOR TO ANY CONSTRUCTION, SO THAT PROPER PRECAUTIONS MAY BE TAKEN NOT TO DAMAGE SUCH IMPROVEMENTS.
- INSURANCE: THE CONTRACTOR SHALL OBTAIN (AND KEEP IN FORCE DURING THE PERIOD OF THE CONTRACT) PUBLIC LIABILITY, WORKMAN'S COMPENSATION AND PROPERTY DAMAGE INSURANCE, AS REQUIRED BY ALL APPLICABLE CODES AND REGULATIONS.
- LIABLE FOR DAMAGE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY ITS OPERATIONS TO UTILITIES, EXISTING PLANTING, CONSTRUCTION, PERSONS PROPERTY, ETC. AND SHALL PROVIDE PROTECTIVE MEANS TO GUARD AGAINST DAMAGE.
- COORDINATION: CONTRACTOR SHALL COORDINATE ALL LANDSCAPE CONSTRUCTION WITH APPROPRIATE TRADES THROUGH THE OWNER BEFORE STARTING WORK.
- PLANTING PLANS: THE PLANTING PLANS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS DURING INSTALLATION TO AVOID CONFLICTS BETWEEN, EXISTING IRRIGATION, EXISTING PLANTING, ARCHITECTURAL FEATURES AND UTILITIES
- DIMENSIONS: ALL SCALE DIMENSIONS ARE APPROXIMATE. WRITTEN DIMENSIONS ON DETAILS AND PLANS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- PLANTING NOTES: SEE GENERAL NOTES ON THE DRAWINGS FOR ADDITIONAL WORK REQUIRED, BUT NOT SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS. ALL WORK CALLED FOR ON THE DRAWINGS BY NOTES SHALL BE FURNISHED AND INSTALLED WHETHER OR NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS AND/OR DETAILS.
- MATERIALS: ALL MATERIALS AND EQUIPMENT SPECIFIED IN THESE DRAWINGS SHALL BE NEW AND IN PERFECT CONDITION OR THE BEST GRADE OF THEIR RESPECTIVE KINDS WHERE INSTALLED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- SUBSTITUTIONS: DESIGN, MATERIAL, EQUIPMENT AND PRODUCTS OTHER THAN THOSE DESCRIBED OR INDICATED ON DRAWINGS MAY BE CONSIDERED FOR USE. WRITTEN APPROVAL FOR SUBSTITUTIONS SHALL BE OBTAINED FROM THE OWNER AND LANDSCAPE ARCHITECT. ALL SUBSTITUTIONS SHALL CONFORM TO LOCAL CODES AND ORDINANCES. ANY **EQUIPMENT OR MATERIALS INSTALLED WITHOUT APPROVAL BY** THE OWNER OR LANDSCAPE ARCHITECT MAY BE REJECTED AND REMOVED AT CONTRACTOR'S EXPENSE.
- NOTICE OF COMPLETION: THE COMPLETION OF THE CONTRACT SHALL BE ACCEPTED, AND NOTICE OF COMPLETION RECORDED ONLY WHEN THE ENTIRE CONTRACT IS COMPLETED TO THE SATISFACTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- SITE MAINTENANCE: CONTRACTOR SHALL KEEP THE PROJECT SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. ALL DEBRIS SHALL BE REMOVED FROM SITE PER LOCAL CODE AND ORDINANCES.
- MAINTENANCE INSTRUCTIONS: AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL INSTRUCT THE OWNER'S AUTHORIZED REPRESENTATIVE ON HOW TO PROPERLY MAINTAIN AND CARE FOR LANDSCAPE PLANTINGS.

GUARANTEE: THE ENTIRE LANDSCAPE INCLUDING ALL WORK DONE UNDER THIS CONTRACT, SHALL BE GUARANTEED AGAINST ALL DEFECTS AND FAULT OF MATERIAL AND WORKMANSHIP, AND SHALL BE IN PERFECT WORKING ORDER FOR 90 DAYS FROM DATE OF COMPLETION BY THE CONTRACTOR WITHOUT EXPENSE TO THE OWNER. TREES SHALL BE GUARANTEED FOR ONE (I) YEAR. ALL MATERIALS USED SHALL CARRY A MANUFACTURER'S GUARANTEE OF MINIMUM ONE (I) YEAR. ANY SETTLING OF TREE/SHRUB WELLS WHICH MAY OCCUR DURING THE 90 DAY PERIOD FINAL ACCEPTANCE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION BY THE CONTRACTOR WITHOUT EXPENSE TO THE OWNER -INCLUDING THE COMPLETE RESTORATION OF ALL DAMAGED PLANTING, PAVING OR OTHER IMPROVEMENTS OF ANY KIND.

#### B. FIELD OBSERVATIONS

- REQUIRED FIELD OBSERVATION WORK: THESE PLANS WERE PREPARED WITH THE UNDERSTANDING THAT THE OWNER OF SAID PLANS WILL USE MIS DESIGN GROUP TO PROVIDE 'FULL' CONTRACT SERVICES INCLUDING FIELD OBSERVATION SERVICES DURING CONSTRUCTION. FAILURE TO USE MIS DESIGN GROUP TO PROVIDE AND COMPLETE THE FIELD OBSERVATION SERVICES SET FORTH HEREIN WILL SIGNIFICANTLY INCREASE THE MISINTERPRETATION OF THE INTENT OF THE DESIGN. ANY UNAUTHORIZED MODIFICATIONS THERETO, AND FAILURE TO DETECT ERRORS AND OMISSIONS IN THE PLANS AND SPECIFICATIONS CAN BECOME COSTLY MISTAKES BUILT INTO THE PROJECT. THEREFORE, IN THE EVENT THAT MJS DESIGN **GROUP IS OTHERWISE PRECLUDED FROM** COMPLETING THE FIELD OBSERVATION SERVICES SET FORTH HEREIN, THE OWNER, OR SUBSEQUENT OWNER (INDIVIDUALS OR CORPORATIONS WHO HAVE PURCHASED THESE PLANS WITH THE PROJECT), AGREES TO HOLD HARMLESS, INDEMNIFY, AND DEFEND MIS DESIGN GROUP AND THEIR CONSULTANTS FROM AND AGAINST ANY AND ALL CLAIMS.
- FIELD OBSERVATION COORDINATION: THE FOLLOWING OBSERVATIONS SHALL BE INITIATED BY THE CONTRACTOR AND COORDINATED THROUGH THE OWNER (JOB SUPERINTENDENT). THE CONTRACTOR SHALL NOTIFY THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT NOT LESS THAN FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY OBSERVATION. CONTINUED WORK WITHOUT OBSERVATION OF ANY REQUIRED CHANGES OR MODIFICATIONS TO BE AT THE CONTRACTOR'S EXPENSE. THE OWNER (JOB SUPERINTENDENT) SHALL INFORM THE LANDSCAPE ARCHITECT AS TO THE PURPOSE AND TIME OF THE OBSERVATION FORTY-EIGHT (48) HOURS IN ADVANCE.
- CLOSING OF NOT INSPECTED WORK: THE CONTRACTOR SHALL NOT ALLOW NOR CAUSE ANY OF THE WORK TO BE COVERED OR ENCLOSED UNTIL IT HAS BEEN INSPECTED, TESTED AND APPROVED BY THE CONSULTING ENGINEER OR AUTHORIZED REPRESENTATIVE AND/OR GOVERNMENTAL AUTHORITY HAVING IURISDICTION OVER THE WORK. SHOULD ANY OF THE WORK BE ENCLOSED OR COVERED BEFORE SUCH INSPECTION AND TEST, HE SHALL UNCOVER HIS WORK AT HIS OWN EXPENSE AFTER IT HAS BEEN INSPECTED, TESTED AND APPROVED, THE CONTRACTOR SHALL MAKE ALL REPAIRS NECESSARY TO THE OWNER'S SATISFACTION.
- JOB SITE MEETINGS AND REQUIRED INSPECTIONS
  - A. PRE-JOB MEETING ON SITE PRIOR TO
  - COMMENCEMENT OF WORK
  - **B. DURING SOIL PREPARATION** C. AT COMPLETION OF SOIL PREPARATION
  - D. COMPLETION OF WEED CONTROL
  - E. PLANT MATERIAL INSPECTION F. GRADING CHECK PRIOR TO GROUND COVER
  - G. PROGRESS/INSTALLATION INSPECTION
  - H. COMPLETION OF PLANTING I. 30, 60, & 90-DAY MAINTENANCE INSPECTIONS
- COMPLETION: WORK SHALL BE COMPLETED UPON FINAL APPROVAL BY OWNER AND LANDSCAPE ARCHITECT. A FINAL INSPECTION SHALL BE HELD UPON THE COMPLETION OF THE WORK PROVIDING THE CONTRACTOR HAS COMPLETED THE INSTALLATION OF ALL PHASES OF THE CONTRACT AND CONFORMED TO ALL REQUIREMENTS OF THESE SPECIFICATIONS.

### C. MATERIAL NOTES

- GENERAL: THE FOLLOWING LIST COMPRISES THE PRINCIPLE MATERIALS BUT DOES NOT SET THE LIMITATION FOR MATERIALS REQUIRED. IT SHALL BE UP TO THE CONTRACTOR TO SHOW THAT AMPLE QUANTITIES OF THE REQUIRED MATERIALS WERE USED AND INSTALLED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
- SCOPE OF WORK: WORK SHALL CONSIST OF FURNISHING ALL MATERIALS, SERVICES AND EQUIPMENT NECESSARY TO COMPLETELY INSTALL ALL LANDSCAPE WORK AS INDICATED ON THE DRAWINGS AND HEREIN SPECIFIED.
- PLANT MATERIALS: ALL PLANTS SHALL BE HEALTHY, WELL ESTABLISHED NURSERY STOCK, FREE FROM INSECTS AND THEIR EGGS AND DISEASES. PLANTS SHALL BE FURNISHED IN THE QUANTITIES REQUIRED TO COMPLETE THE WORK AS INDICATED ON THE DRAWINGS AND SHALL BE OF THE SPECIES AND SIZES INDICATED ON THE PLANT LIST. ALL PLANTS SHALL BE INSPECTED AND APPROVED PRIOR TO PLANTING.
- REJECTION OF PLANT MATERIAL: THE OWNER OR LANDSCAPE ARCHITECT MAY REIECT ANY PLANT MATERIAL REGARDED AS UNSUITABLE AT ANY TIME AT NO ADDITIONAL COST TO THE OWNER.
- HANDLING/STORAGE: ALL PLANTS SHALL BE HANDLED AND STORED SO THEY ARE ADEQUATELY PROTECTED FROM DRYING OUT, SUN, WIND BURN, VANDALISM OR ANY OTHER INJURY.
- TREE TAGGING: ALL SPECIMEN TREES CALLED OUT ON PLAN TO BE TAGGED SHALL BE SELECTED BY LANDSCAPE ARCHITECT.
- TREE STAKES AND GUYS: TREE STAKES SHALL BE LODGE POLE PINE OR CONSTRUCTION HEART REDWOOD. FURNISH AND INSTALL AS INDICATED ON DETAILS.
- TREE TIES: SHALL BE FLEXIBLE NON-DETERIORATING SELF-FASTENING BLACK VINYL TREE TIES OF THE SIZES REQUIRED TO PROPERLY SUPPORT TREES. "CINCH TIES" OR EOUAL.

- ROOT BARRIERS: CONTRACTOR SHALL INSTALL APPROVED ROOT BARRIERS ON ALL TREES WITHIN FIVE (5) FEET OF HARDSCAPE, STRUCTURES, ETC.
- SOD: SOD VARIETY SHALL BE PER PLANS. SOD SHALL BE SUPPLIED BY PACIFIC SOD OR APPROVED EQUAL, PURCHASED FROM A RECOGNIZED TURF NURSERY, FIRST QUALITY, FRESH AND CLEAN.
- AGRIFORM PLANTING TABLETS: SHALL BE 20-10-5 ANALYSIS PROLONGED RELEASE NITROGEN. I PER I GALLON. 2 PER 5 GALLON. 4 PER 15 GALLON, AND 6 PER BOX FOR SPECIMENS LARGER THAN 15 GALLON OR PER DRAWINGS.
- COMMERICAL FERTILIZER: SHALL BEAR THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS ND SHALL BE CONTROLLED RELEASE TYPE FERTILIZER WITH THE FOLLOWING MINIMUM REQURIEMENTS:

16% NITROGEN - 7% PHOSPHORIC ACID - 12% POTASH (+ IRON)

- REDWOOD SHAVINGS: SHALL BE PURE REDWOOD SAWDUST AND SHAVINGS OR NITROGEN FORTIFIED FIR RESULTING FROM MILLING OPERATIONS AND SHALL NOT CONTAIN STICKS, BLOCKS OF WOOD, OR OTHER FOREIGN MATTER. SOURCES OF SHAVINGS SHALL BE APPROVED BY LANDSCAPE ARCHITECT.
- SOIL SULFUR: STANDARD COMMERCIAL BRAND, GUARANTEED ANALYSIS OF 99% SULFUR (EXPRESSED AS ELEMENTAL) SUPPLIED IN UNOPENED BAGS WITH ANALYSIS ATTACHED.
- BONE MEAL: SHALL BE FINE GROUND, STEAMED, DRY MATERIAL WITH A MINIMUM ANALYSIS OF 1% NITROGEN - 30% PHOSPHORIC ACID - 69.5% UNDILUTED BONE.
- SAMPLES: SAMPLES OF REDWOOD SHAVINGS, STEER MANURE, FERTILIZER AND SEED SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE STORED ON THE SITE UNTIL FURNISHING OF MATERIALS IS COMPLETED.
- CERTIFICATES: CERTIFICATES FOR EACH DELIVERY OF BULK MATERIAL SHALL BE FURNISHED TO THE LANDSCAPE ARCHITECT BY THE CONTRACTOR. CERTIFICATES SHALL STATE THE SOURCE, QUANTITY AND TYPE OF MATERIAL AND DATE AND ADDRESS OF THE LOCATIONS IT WAS DELIVERED TO.

### LANDSCAPE GRADING NOTES

- SITE PREPARATION: THE CONTRACTOR SHALL REMOVE ALL WEEDS, ROCKS, DEBRIS, AND OTHER EXTRANEOUS MATERIALS FROM THE JOB SITE PRIOR TO PROCEEDING WITH ANY WORK.
- SOIL PREPARATION: ALL SOIL PREPARATION SHALL BE INSTALLED AS PER THE SOIL AGRONOMY REPORT TO BE PROVIDED AND PAID FOR BY THE OWNER. SOILS REPORT SHALL CONTAIN FULL SOIL AMENDMENT RECOMMENDATIONS. THE REPORT SHALL BE IMMEDIATELY FORWARDED TO THE LANDSCAPE ARCHITECT and CITY of WESTMINSTER UPON COMPLETION.
- SOIL AMENDMENTS: THE SOIL AMENDMENTS SPECIFIED ARE FOR BIDDING PURPOSES ONLY. THE OWNER SHALL PROVIDE FOR A SOILS AGRONOMY REPORT FROM AN APPROVED SOILS LABORATORY AND/OR ANY ADDITIONAL SPECIFICATION PROVIDED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF PLANT MATERIALS.
- CULTIVATION DEPTH: ALL LANDSCAPE AREAS SHALL BE CULTIVATED TO A DEPTH OF 6".

\* FOR BID PURPOSES ONLY

AMENDMENT MIX: INCORPORATE THE FOLLOWING SOIL AMENDMENTS PER SOILS REPORT, IN THE UPPER 6" OF ALL TILLING OR DISKING UNTIL ALL POCKETS AND LAYERS OF SOIL AND SOIL CONDITIONERS ARE ELIMINATED.

REDWOOD SHAVINGS 6 YARDS PER 1000 SQ. FT. COMMERCIAL FERTILIZER 20 LBS. PER 1000 SQ. FT. GYPSUM 100 LBS. PER 1000 SQ. FT.

- FINISH GRADE: FINISH GRADES SHALL BE THOSE INDICATED ON THE DRAWINGS OR AS MAY BE CONTROLLED BY EXISTING INSTALLATIONS. GRADES NOT OTHERWISE INDICATED SHALL BE UNIFORM. STRAIGHT LEVELS BETWEEN POINTS WHERE ELEVATIONS ARE DETERMINED. FINISH GRADES SHALL BE SMOOTH AND EVEN OF A UNIFORM PLANE WITH AN ABRUPT CHANGES IN THE SURFACE. MINOR MODELING OF THE GROUND SURFACE MAY BE REQUIRED. GRADES SHALL PROVIDE FOR THE NATURAL RUN-OFF OF WATER WITHOUT LOW SPOTS OR POCKETS. FLOW LINES SHALL BE SET BY INSTRUMENT AND SHALL BE THE MAXIMUM GRADIENT POSSIBLE.
- DRAINAGE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE DRAINAGE IN ALL PLANTING AREAS IN ACCORDANCE WITH THE PLANS, DETAILS AND SPECIFICATIONS OR AS SPECIFIED BY THE OWNER.
- FINISH GRADE AT TURF AREAS: FINISH GRADE OF ALL TURF AREAS SHALL BE ONE INCH BELOW THE GRADE OF ADJACENT WALKS, PAVEMENTS, CURBS, ETC.
- FINISH GRADE AT SHRUB AREAS: FINISH GRADE OF ALL SHRUBBERY AND GROUND COVER AREAS SHALL BE TWO INCHES BELOW THE GRADE OF ADIACENT WALKS, PAVEMENTS. CURBS, ETC., EXCEPT WHERE WATER FLOWS ACROSS SAME.

## E. TREE AND SHRUB PLANTING NOTES

- PLANT DEPTH: PLANT ALL PLANTS AT THEIR NATURAL GROWING DEPTH PER DETAIL, IN THE LOCATIONS SHOWN ON THE DRAWINGS.
- **EXCAVATED PITS: EXCAVATE PITS WITH SQUARE AND** VERTICAL SIDES. 2 TIMES THE DIAMETER. AND 12" GREATER IN DEPTH THAN THE SIZE OF THE PLANT CONTAINER.
- BACKFILL MIXTURE: BACKFILL TO BOTTOM OF ROOT BALL WITH PREPARED BACKFILL MIXTURE, TAP FIRMLY, SET PLANT IN CENTER OF PIT IN A VERTICAL POSITION, CROWN LEVEL WITH FINISH GRADE. BACKFILL BALANCE OF PIT WITH THE FOLLOWING PREPARED MIXTURE OR PER SOILS REPORT:

10 PARTS TOP SOIL **5 PARTS REDWOOD SHAVINGS** I/4 LB. BONE MEAL AGRIFORM PLANT TABLETS, I PER GALLON, 2 PER 5 GALLON, 4 PER 15 GALLON, AND 6 PER BOX FOR SPECIMENS LARGER THAN 15 GALLON. \* FOR BID PURPOSES ONLY

- TREE LOCATIONS: TREE LOCATIONS TAKE PRECEDENCE OVER IRRIGATION LINES. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NECESSARY.
- WATER BASIN: CONSTRUCT A SIX INCH DEEP WATER BASIN, MULCH WITH A TWO INCH LAYER OF REDWOOD SHAVINGS, AND WATER THOROUGHLY, BACKFILLING WITH ADDITIONAL MIX WHERE VOIDS APPEAR.
- TREE STAKES: ALL NURSERY STAKES SHALL BE REMOVED AND ALL TREES SHALL BE INSTALLED WITH LODGE POLE STAKES DRIVEN 3 FEET INTO THE GROUND. TREE STAKES SHALL NOT PIERCE THE ROOTBALL AND NOT INJURE TREE ROOTS. SEE TREE PLANTING DETAILS.
- TREE TIES: TREE TIES SHALL BE FASTENED TO THE TREE AND STAKE BY LOOPING THE TIES IN FIGURE 8'S WITH THE INSIDE OF THE TREE TRUNK. FASTEN TIE TO THE STAKE WITH ONE GALVANIZED ROOFING NAIL.
- DEFECTS: ALL DEFECTS IN TREE AND SHRUB PLANTING SHALL BE CORRECTED THROUGH THE GUARANTEE PERIOD SPECIFIED HEREIN AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

#### F. VINE PLANTING NOTES

- GENERAL: ALL VINES SHALL BE PLANTED PER THE VINE PLANTING DETAIL, AND THE WOOD SUPPORT STAKE SHALL BE CAREFULLY REMOVED WITHOUT DAMAGE TO THE ROOTBALL.
- WOOD FENCES: VINES ATTACHED TO WOOD FENCES SHALL BE SECURED WITH GALVANIZED NAILS OR GALVANIZED EYE SCREWS AND HEAVY DUTY VINE TIES.
- MASONRY WALLS: ON MASONRY WALLS ATTACH WITH ADHESIVE TYPE VINE SUPPORTS WITH SILICONE ADHESIVE OR GALVANIZED EYE SCREWS AND WIRE (PER DETAIL). ATTACH VINE WITH HEAVY DUTY VINE TIES

### G. MAINTENANCE NOTES

- MAINTENANCE PERIOD: THE MAINTENANCE PERIOD SHALL BE FOR 90 CALENDAR DAYS BEGINNING ON THE DAY OF THE CHECK INSPECTION AFTER ALL WORK HAS BEEN INSTALLED AND APPROVED BY THE LANDSCAPE ARCHITECT THE MAINTENANCE PERIOD MAY BE EXTENDED TO INCLUDE ANY ADDITIONAL TIME THAT MAY BE REQUIRED TO MEET THE REQUIREMENTS OF THE WORK SPECIFIED.
- GENERAL: THE GENERAL CARE AND MAINTENANCE OF ALL AREAS SHALL CONSIST OF PROPER WATERING, FERTILIZATION, WEEDING, RODENT CONTROL, CLEANUP, ETC
- SAFETY: ALL PLANT MATERIALS SHALL BE CHECKED AND MAINTAINED AS REQUIRED IN AN ONGOING PROGRAM TO ASSURE A SAFE ENVIRONMENT.
- WATERING: WATER ALL PLANTINGS TO ASSURE COMPLETE GERMINATION OF ALL SEEDED AREAS AND CONTINUED GROWTH OF THE PLANTS. AREAS THAT DO NOT HAVE ADEQUATE IRRIGATION COVERAGE OR WHICH MAY REQUIRE ADDITIONAL DEEP WATERING SHALL BE WATERED BY HAND AS REQUIRED.
- IRRIGATION COVERAGE: ADJUST ALL IRRIGATION HEADS IN EACH AREA AND ZONE OF EXPOSURE SO THAT THE OPTIMUM AMOUNT OF WATER IS APPLIED AT THE PROPER TIMES WITHOUT OVERTHROW ONTO WALLS, WALKS, ETC.
- CULTIVATING AND WEEDING: CULTIVATE AND WEED ALL PLANTED AREAS AT REGULAR INTERVALS NOT TO EXCEED 15 DAYS. EXERCISE CARE WHEN CULTIVATING TO AVOID DAMAGE TO ROOTS OF THE GROWING PLANTS.
- CHEMICAL HERBICIDES: A CERTIFIED TECHNICIAN SHALL APPLY CHEMICAL HERBICIDES TO CONTROL WEEDS AT THE OPTION OF THE CONTRACTOR AND UPON PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT.

**RODENT CONTROL: THE CONTRACTOR SHALL TAKE THE** 

- PEST AND DISEASE CONTROL: A CERTIFIED TECHNICIAN SHALL SPRAY AS NECESSARY TO CONTROL ALL INFESTATIONS.
- NECESSARY STEPS TO ELIMINATE ANY RODENTS **ENCOUNTERED ON SITE.**
- PRUNING: ALL PRUNING SHALL BE IN ACCORDANCE WITH ARBORS GUIDELINES. DAMAGED, DEAD OR DRYING BRANCHES SHALL BE REMOVED BACK TO A POINT OF GROWTH.
- PLANT REPLACEMENTS: DURING THE MAINTENANCE PERIOD, SHOULD ANY PLANT SHOW WEAKNESS AND PROBABILITY OF DYING, IT SHALL BE REPLACED BY THE CONTRACTOR WITHIN 5 DAYS OF NOTIFICATION TO DO SO. AT THE END OF THE MAINTENANCE PERIOD, ALL PLANT MATERIAL SHALL BE IN A HEALTHY, GROWING CONDITION.
- TURF AREAS: AT THE END OF EACH THIRTY DAY PERIOD OF MAINTENANCE, THE CONTRACTOR SHALL DO THE FOLLOWING OVERSEED ALL SPOTS OR AREAS WHERE NORMAL SOD ESTABLISHMENT IS NOT EVIDENT. REMOVE ALL ROCKS OF OTHER DEBRIS THAT CONSTITUTE A HINDRANCE TO MOWING. FILL ALL DEPRESSIONS AND ERODED CHANNELS WITH SUFFICIENT TOP SOIL TO RAISE TO PROPER GRADE, COMPACT LIGHTLY AND RESOD THE FILLED AREAS.
- TURF WEED CONTROL: TURF AREAS SHALL BE TREATED WITH A BROADLEAF WEED KILLER APPLIED PER MANUFACTURER'S RECOMMENDATIONS.
- TURF FERTILIZER: FERTILIZE ALL TURF AREAS WITH COMMERCIAL FERTILIZER, 16-6-8 MINIMUM ANALYSIS, AT THE RATE OF TEN (10) POUNDS PER 1000 SQ. FT. OF AREA.
- MOWING: MOW ALL TURF AREAS BEFORE THEY REACH A HEIGHT OF THREE INCHES WITH MOWER SET AT TWO INCHES. MAINTAIN ALL TURF AREAS AT A TWO INCH HEIGHT THROUGHOUT THE MAINTENANCE PERIOD.
- RE-HYDROSEEDING: THE CONTRACTOR SHALL RE-HYDROSEED ALL HYDROSEEDED AREAS ERODED OR NON-GERMINATING AT THE END OF EACH THIRTY DAYS.
- CLEAN UP: DURING THE COURSE OF THE MAINTENANCE WORK. THE CONTRACTOR SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE AND SHALL MAINTAIN THE PREMISES IN A NEAT AND CLEAN CONDITION AT ALL TIMES.
- FINAL INSPECTION: WILL BE HELD AT THE END OF THE 90-DAY MAINTENANCE PERIOD.

### H. POST INSTALLATION MAINTENANCE GUIDELINES

A SCHEDULE FOR ONGOING MAINTENANCE SHALL BE PREPARED AND SHOWN ON THE PLANTING PLAN USING THE FOLLOWING GUIDELINES.

- ANY ALTERATIONS TO THE LANDSCAPE MUST BE APPROVED BY THE DIRECTOR OF
- PLANNING AND COMMUNITY DEVELOPMENT
- CONTROL ALL HARMFUL DISEASES AND PESTS. ALL CHEMICAL APPLICATIONS MUST BE PER STATE LICENSED ADVISORS AND APPLICATIONS.
- PRUNING SHALL BE DONE TO KEEP PLANTS WITHIN SPECIAL LIMITATIONS. REMOVAL OF DEADWOOD, CROSS-BRANCHING, ETC., PER INTERNATIONAL SOCIETY OF ARBORICULTURE STANDARDS (ISA). PLANTS SHALL NEVER BE SHEARED UNLESS SPECIFIED ON THE
- APPROVED PLAN. TREES ARE TO BE ALLOWED TO GROW TO THE DESIGNED SIZE TO PROVIDE MAXIMUM SHADING OF PAVED AREAS.
- WATER SHALL BE APPLIED FOR OPTIMUM PLANT GROWTH WITH MINIMAL RUNOFF OR OVERSPRAY.
- ADJUST CONTROLLERS PER CURRENT CALIFORNIA IRRIGATION MANAGEMENT INFORMATION SYSTEM (CIMIS) DATE (805) 664-4921.
- ALWAYS REPLACE HEADS WITH SAME KIND OR MATCHING PRECIPITATION RATE.

EARLY MORNING

- BACKFLOW DEVICE SHALL BE TESTED AND CERTIFIED ANNUALLY BY THE LOCAL HEALTH DIVISION.
- INSPECT TREE SUPPORTS FREQUENTLY AND REMOVE AS SOON AS PLANTS WILL STAND WITHOUT SUPPORT AND WILL BE ABLE TO RESIST WIND DAMAGE. NEVER ALLOW
- SUPPORT MATERIALS TO GIRDLE TRUNK OF BRANCHES. LANDSCAPE IRRIGATION SHALL BE SCHEDULED DURING THE NIGHT OR
- HOURS. A REGULAR MAINTENANCE SCHEDULE SHALL INCLUDE CHECKING. ADJUSTING, AND
- REPAIRING THE IRRIGATION EQUIPMENT; AERATING AND DETACHING **TURF AREAS**; REPLENISHING MULCH; FERTILIZATION; PRUNING, WEEDING, AND REMOVING LITTER IN ALL LANDSCAPED AREAS.

03/15/21 100% DESIGN DEVELOPMENT

Issued for:

Revisions:

ANDSCAPE ARCHITECTURE

507 30th Street Newport Beach, CA 92663 949.675.9964

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**NOT FOR** CONSTRUCTION

Project:

# **ACME FAMILY**

1905 &1885 SEBASTOPOL ROAD SANTA ROSA, CA 95407

APN: 125-071-016.015

# MILESTONE

481 N. SANTA CRUZ **AVENUE** LOS GATOS, CA 95030

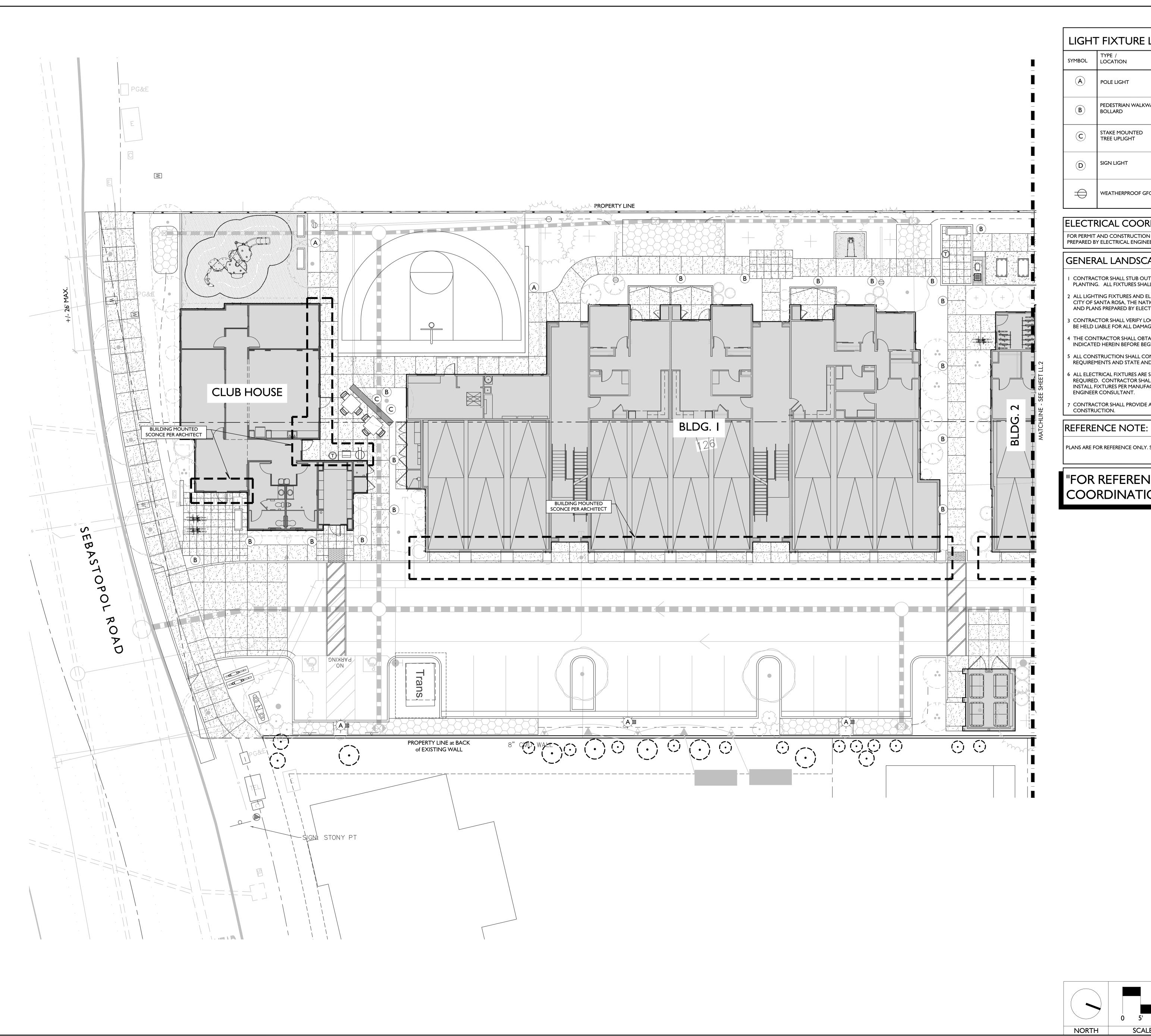
Stamp: 03-31-21 01-20-21

Drawn By: NL Checked By: MS

Plan Date: 06.02.2021 Scale: See Sheet

> PLANTING SPECIFICATIONS

Sheet No.:



LIGHT	FIXTURE LE	GEND:			
SYMBOL	TYPE / LOCATION	MANUFACTURER / MODEL #	LAMP	ACCESSORIES / NOTE	
A POLE LIGHT		LIGMAN: UAD-20011-W30-02-120v	82 W LED 3000K	14 FT POLE OR APPROVED EQUAL DARK GREY FINISH	
B PEDESTRIAN WALKWAY BOLLARD		LIGMAN: UPRA-10012-T3-W30 -02-120v	14 W LED 3000K	SURFACE MOUNT DARK GREY FINISH	
C	STAKE MOUNTED TREE UPLIGHT	FX LUMINAIRE: NP-9LED-LS-FB OR APPROVED EQUAL	I0 W LED	13" STAKE. REQUIRES A REMOTE TRANSFORMER.	
SIGN LIGHT  WEATHERPROOF GFCI		LINEAR SIGN LIGHT	-	-	
		OUTLET WITH COVER		COORDINATE locations WITH OWNER and PROPERTY MANAGER	

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FOR PERMIT AND CONSTRUCTION PLANS FOR FIXTURE CIRCUITING AND LOADS SEE PLANS PREPARED BY ELECTRICAL ENGINEER.

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### "FOR REFERENCE & COORDINATION ONLY"

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ARCHITECTURE 507 30th Street

Newport Beach, CA 92663 <del>3</del> 949.675.9964

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## ACME FAMILY **APARTMENTS**

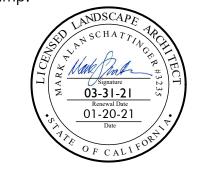
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APN: 125-071-016,015

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## MILESTONE HOUSING GROUP

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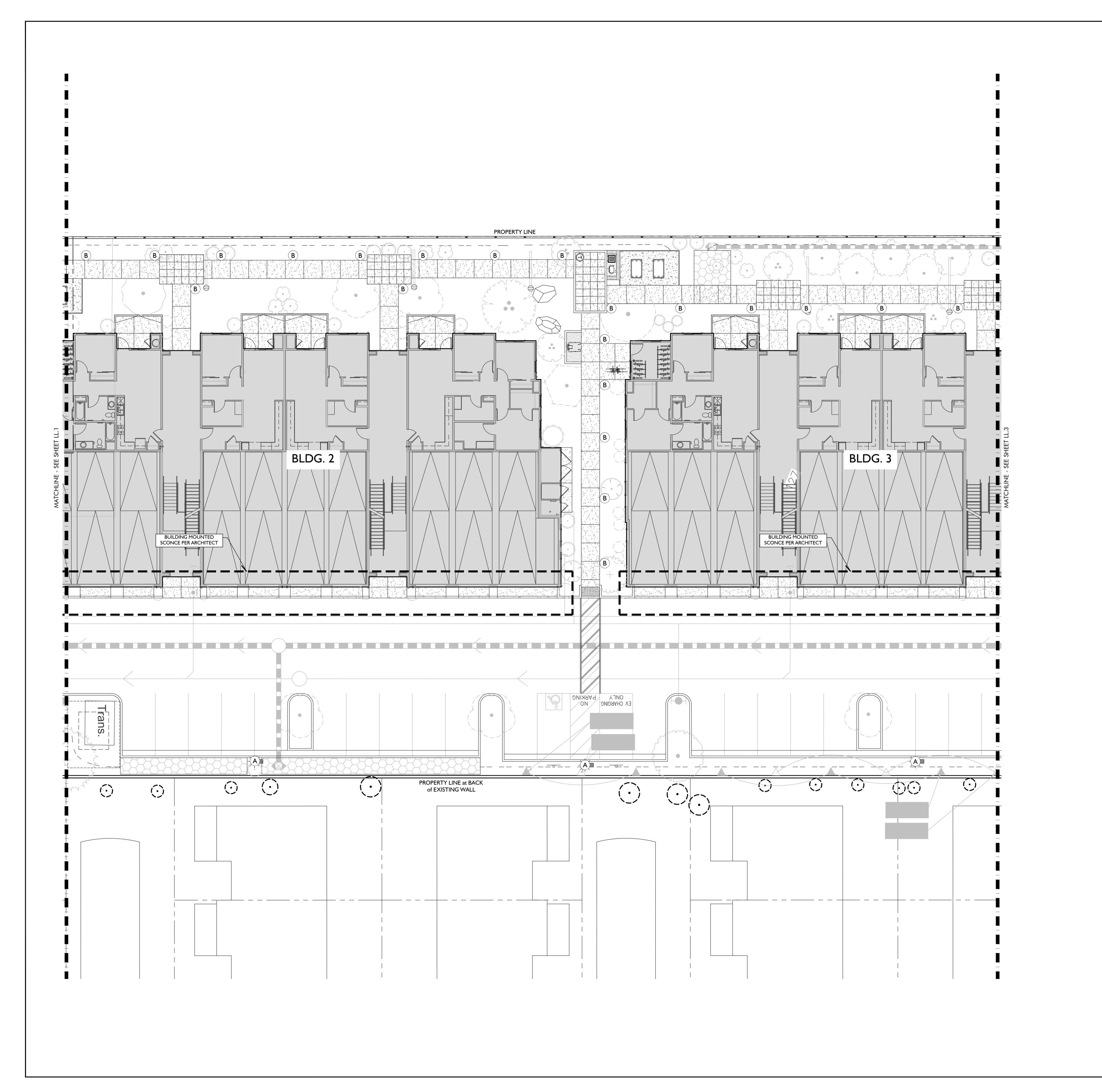
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LANDSCAPE LIGHTING

KEY MAP

SCALE: I" = 10'



	LIGHT	<b>FIXTURE</b>	<b>LEGEND:</b>
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$\Rightarrow$	WEATHERPROOF GFCI	OUTLET WITH COVER		COORDINATE locations WITH OWNER and PROPERTY MANAGER		

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LANDSCAPE LIGHTING

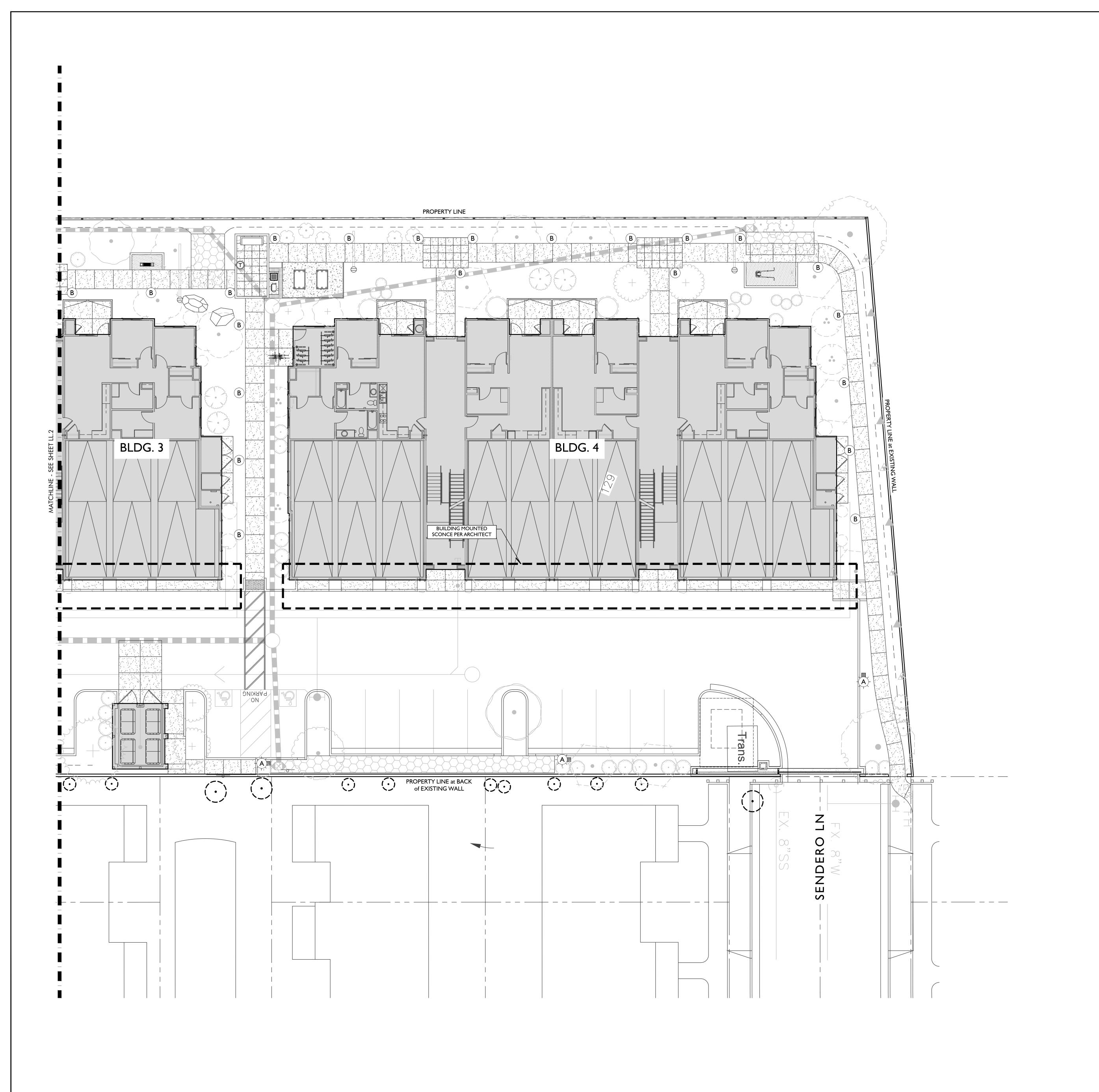
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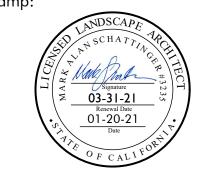
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