Attachment B

ELEVATION '1A' - TUSCAN

ELEVATION '1B' - ENGLISH

ELEVATION '1C' - TRADITIONAL

COBBLESTONE

PLAN 1 - FRONT ELEVATIONS

A1.0

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ELEVATION '1A' - TUSCAN

ELEVATION '1B' - ENGLISH

ELEVATION '1C' - TRADITIONAL

COBBLESTONE

PLAN 1 - FRONT ELEVATIONS

A1.0

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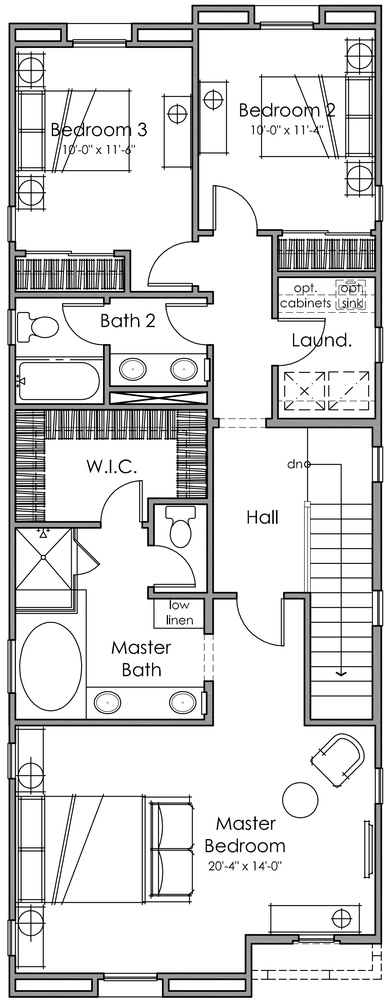
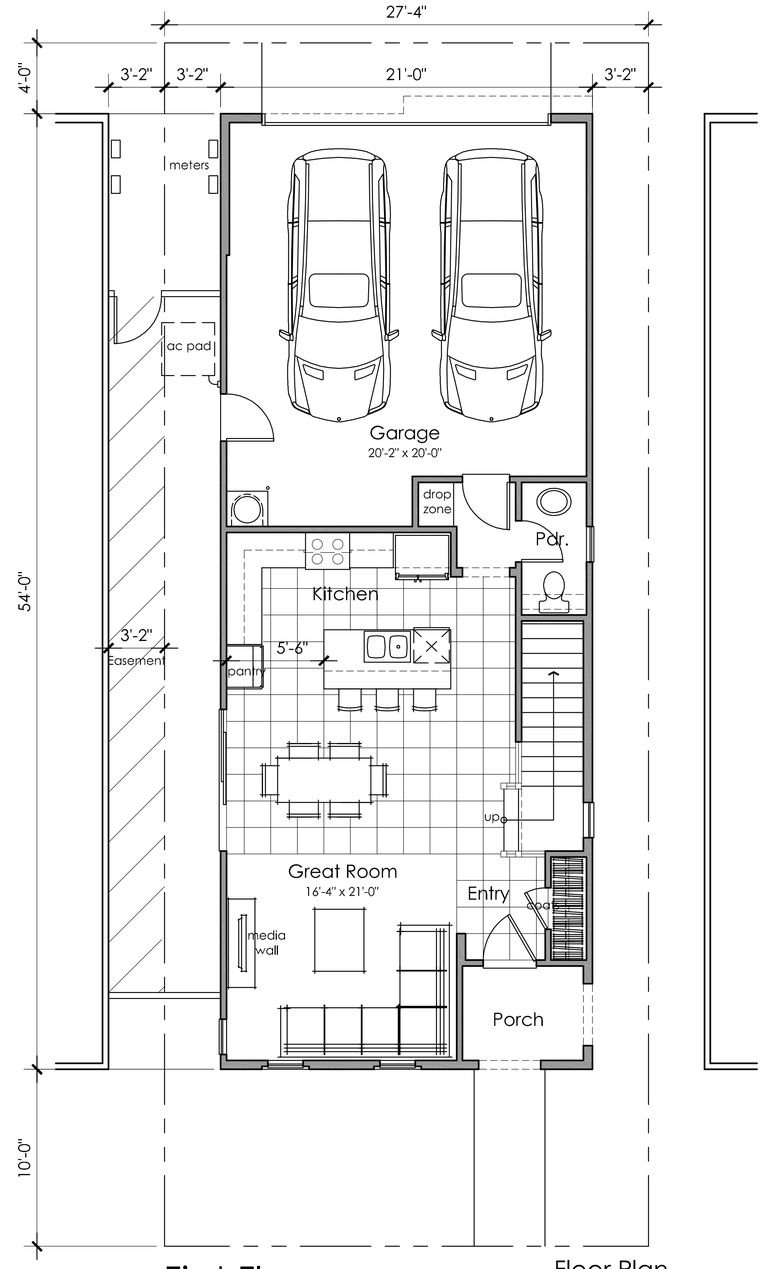


Second Floor
1,042 s.f.



First Floor
630 s.f.

Floor Plan
3 Bedrooms + Loft
2.5 Baths
1,672 s.f.

0 2 4 8

COBBLESTONE

PLAN 1A FLOOR PLAN

A1.1.1

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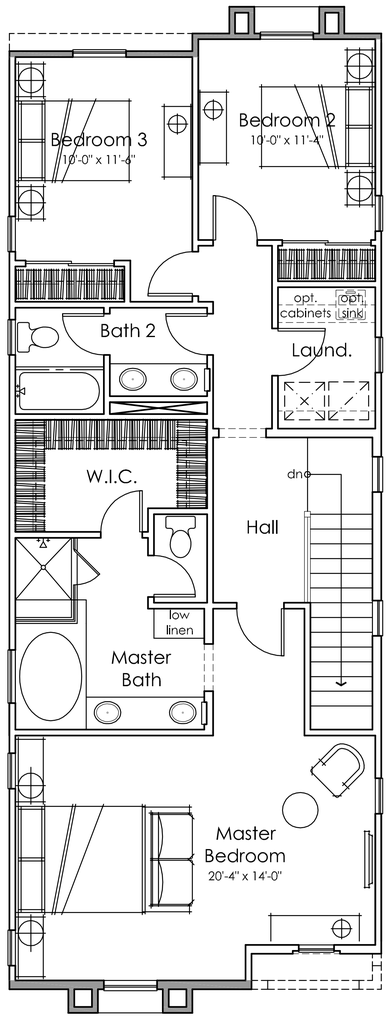
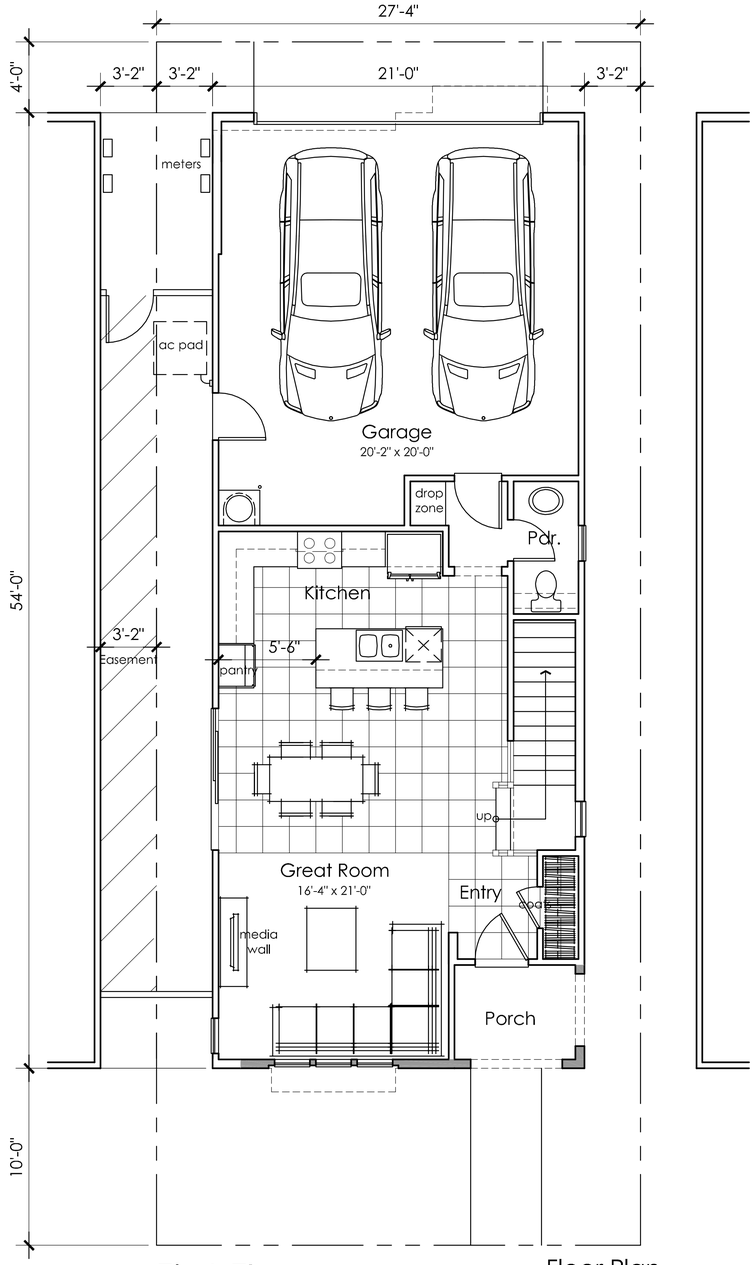


Second Floor
1,042 s.f.



First Floor
630 s.f.

Floor Plan
3 Bedrooms + Loft
2.5 Baths
1,672 s.f.

0 2 4 8

COBBLESTONE

PLAN 1B FLOOR PLAN

A1.1.2

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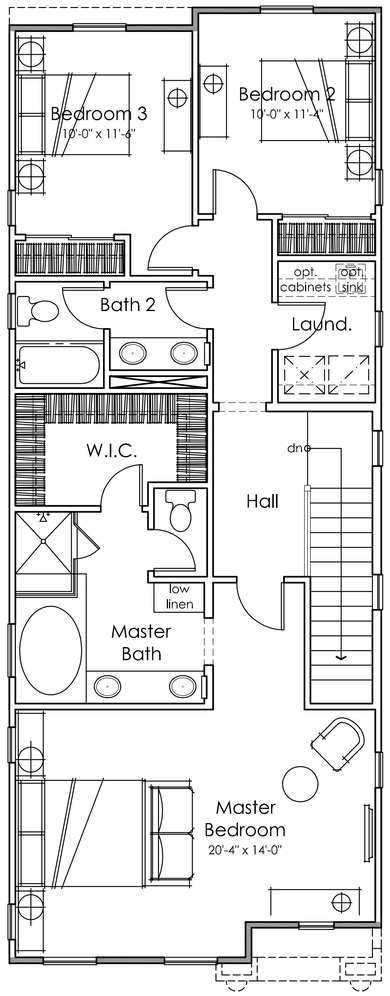

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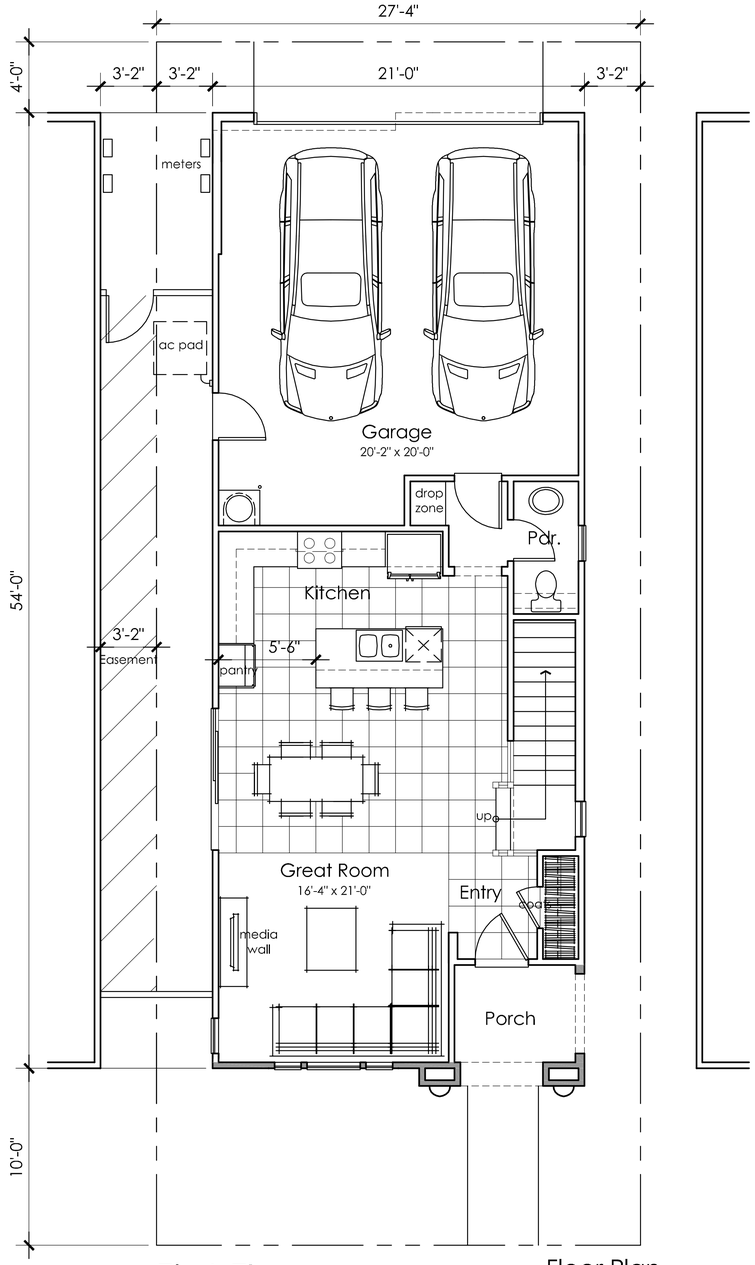

First Floor
630 s.f.

Floor Plan
3 Bedrooms + Loft
2.5 Baths
1,672 s.f.

0 2 4 8

COBBLESTONE

PLAN 1C FLOOR PLAN

A1.1.3

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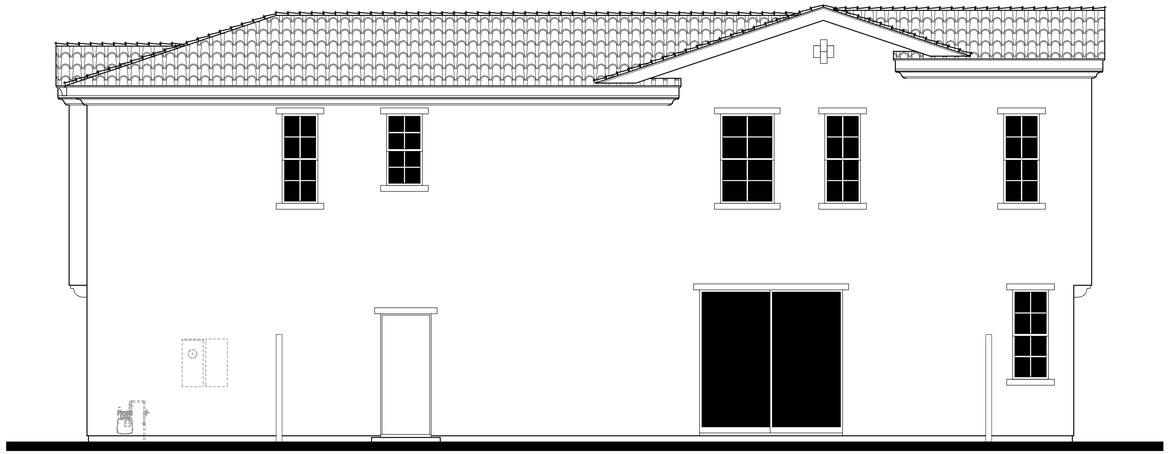

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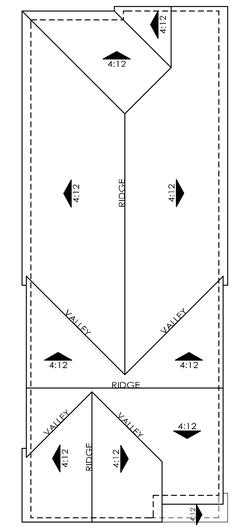
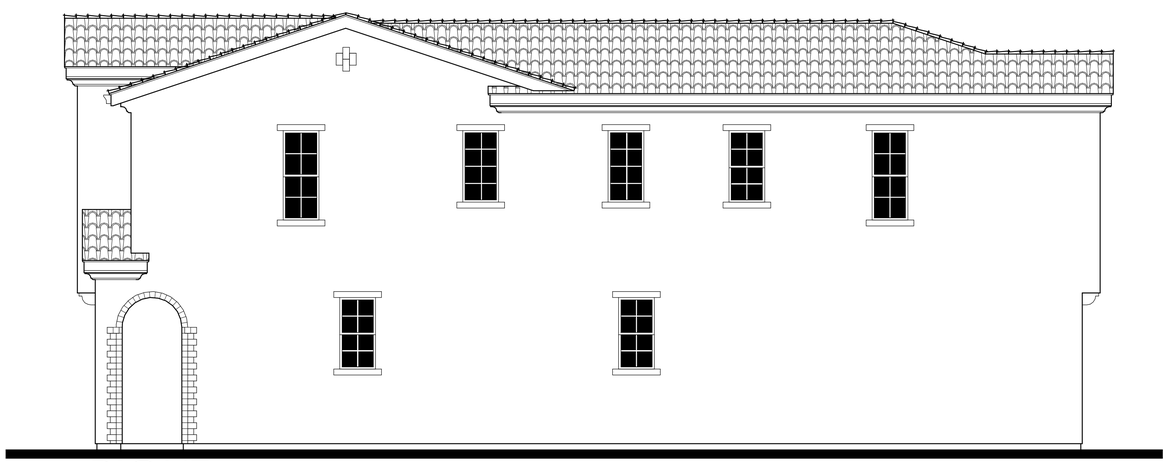


ROOF PLAN
OVERHANG : 12"
RAKE : 6"
ROOF PITCH : 4:12 U.N.O



RIGHT

REAR

COBBLESTONE

PLAN 1A - EXTERIOR ELEVATIONS

A1.2

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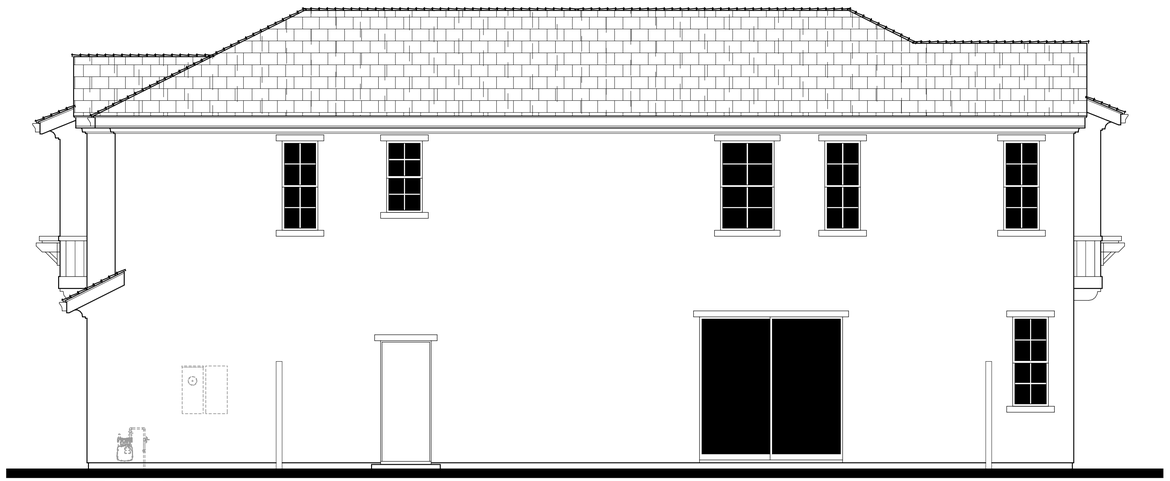

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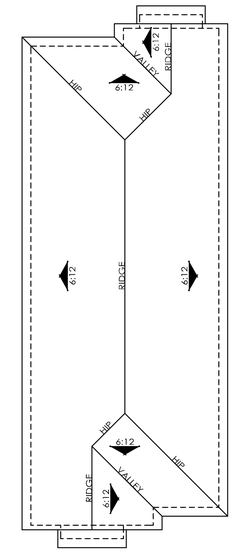
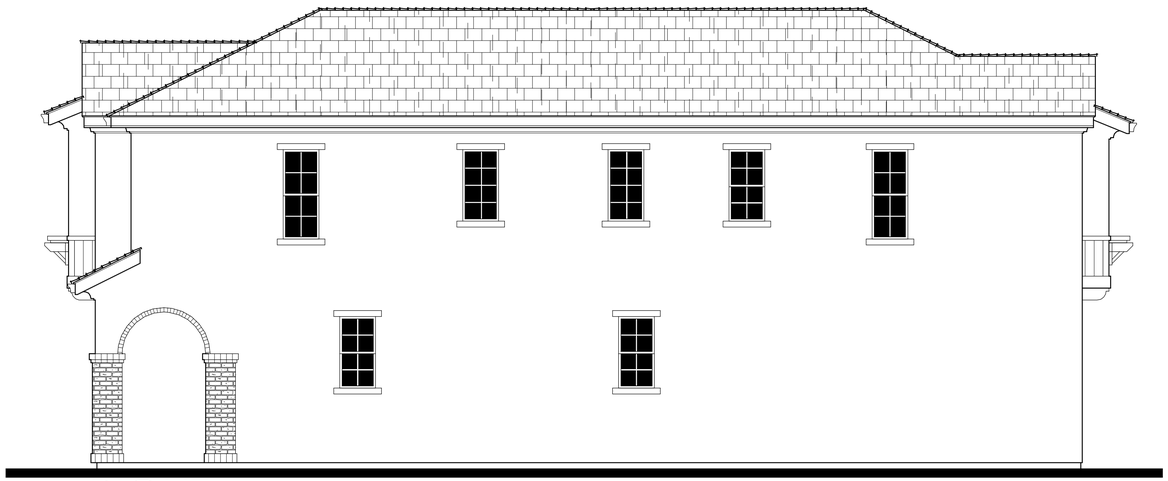


ROOF PLAN
OVERHANG : 12"
RAKE : 6"
ROOF PITCH : 6:12 U.N.O



RIGHT

REAR

COBBLESTONE

PLAN 1B - EXTERIOR ELEVATIONS

A1.3

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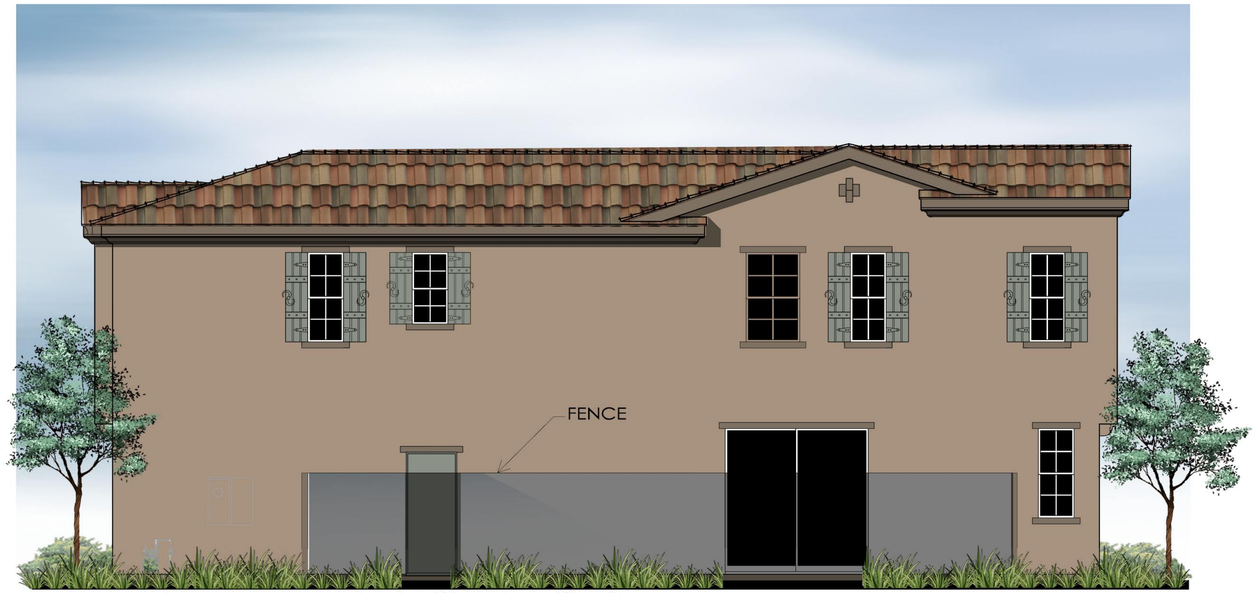

1A - LEFT AT ENHANCED LOTS

1B - LEFT AT ENHANCED LOTS

1B - RIGHT AT ENHANCED LOTS

COBBLESTONE

PLAN 1 - ENHANCED EXTERIOR ELEVATIONS

A1.4

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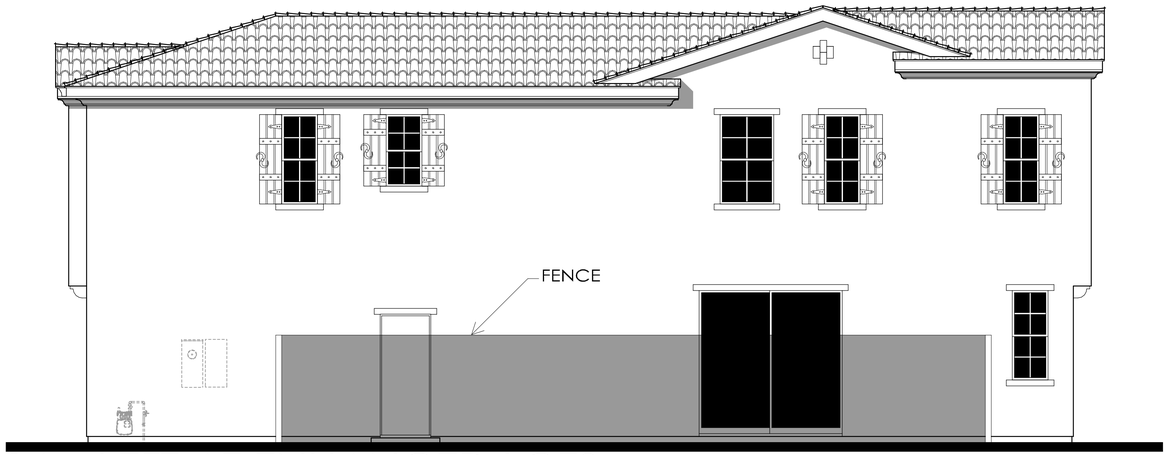
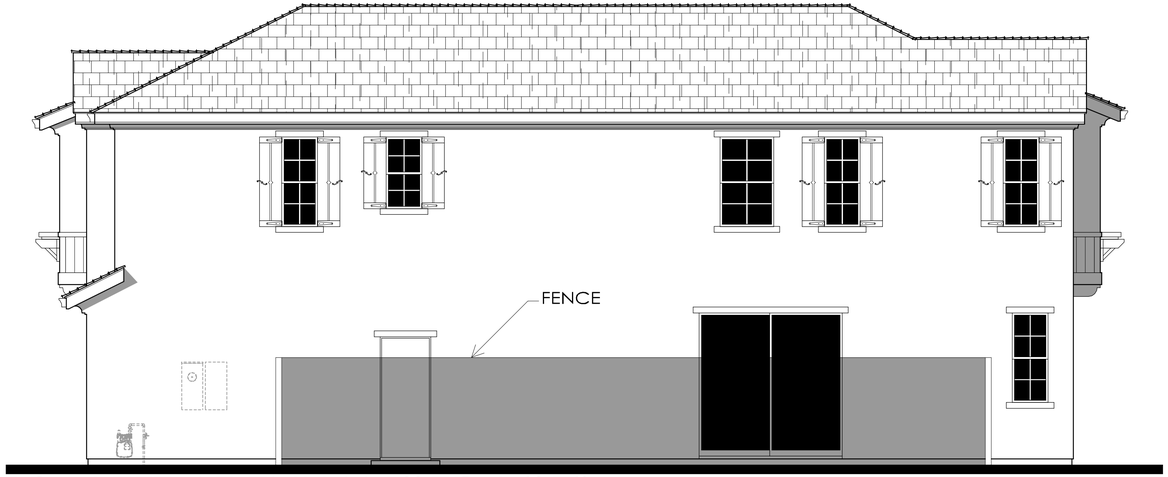


1A - LEFT AT ENHANCED LOTS



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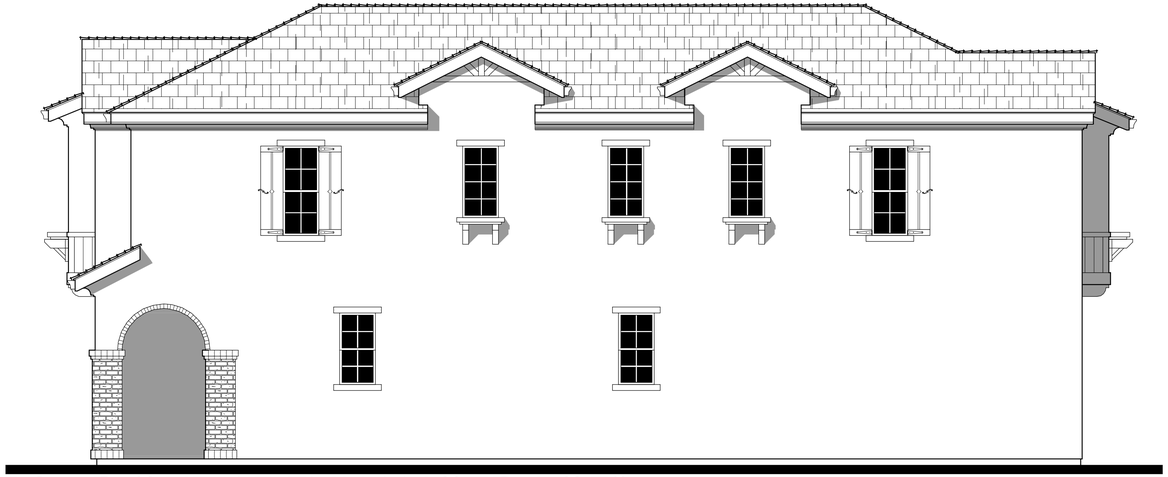

1B - RIGHT AT ENHANCED LOTS

COBBLESTONE

PLAN 1 - ENHANCED EXTERIOR ELEVATIONS

A1.4

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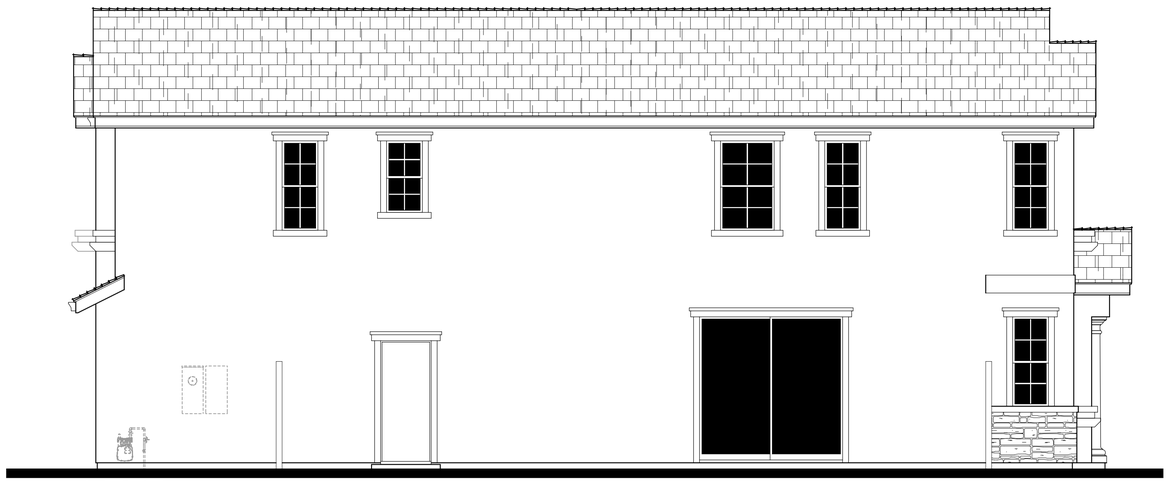
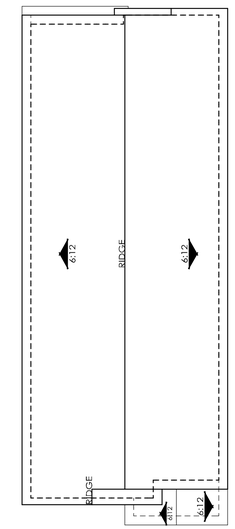
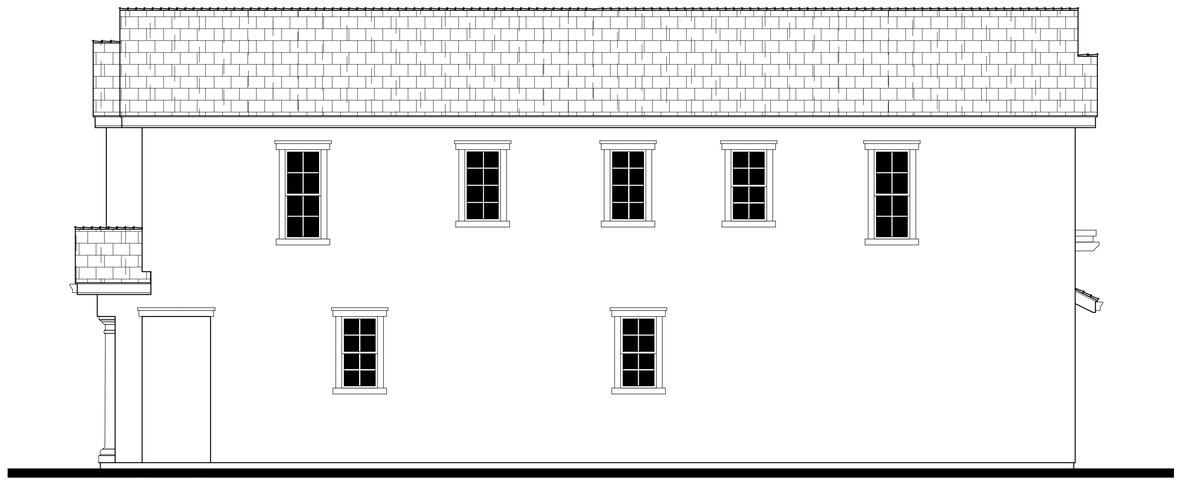


LEFT



ROOF PLAN
OVERHANG : 12"
RAKE : 12"
ROOF PITCH : 6:12 U.N.O



RIGHT

REAR

COBBLESTONE

PLAN 1C - EXTERIOR ELEVATIONS

A1.5

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ELEVATION '2A' - TUSCAN

ELEVATION '2B' - ENGLISH

ELEVATION '2C' - TRADITIONAL

COBBLESTONE

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PLAN 2 - FRONT ELEVATIONS

A2.0

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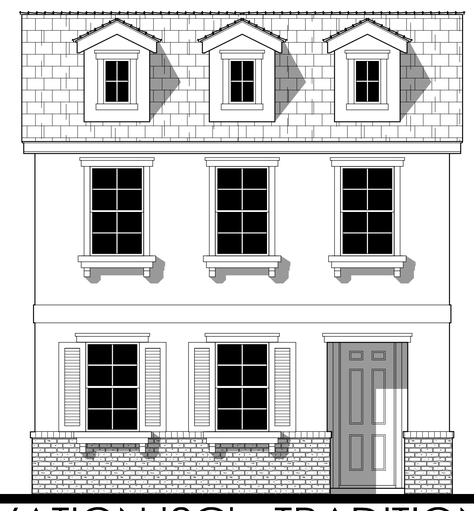
ELEVATION '2A' - TUSCAN

ELEVATION '2B' - ENGLISH



ELEVATION '2C' - TRADITIONAL

COBBLESTONE

PLAN 2 - FRONT ELEVATIONS

A2.0

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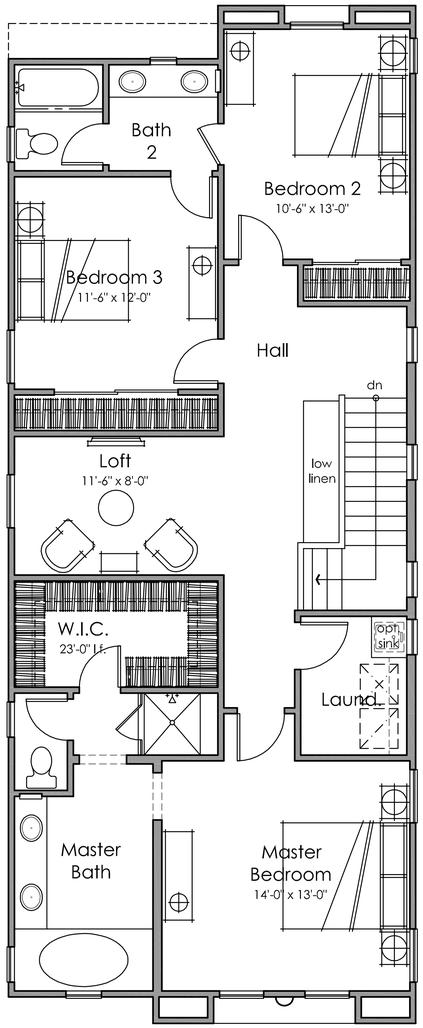
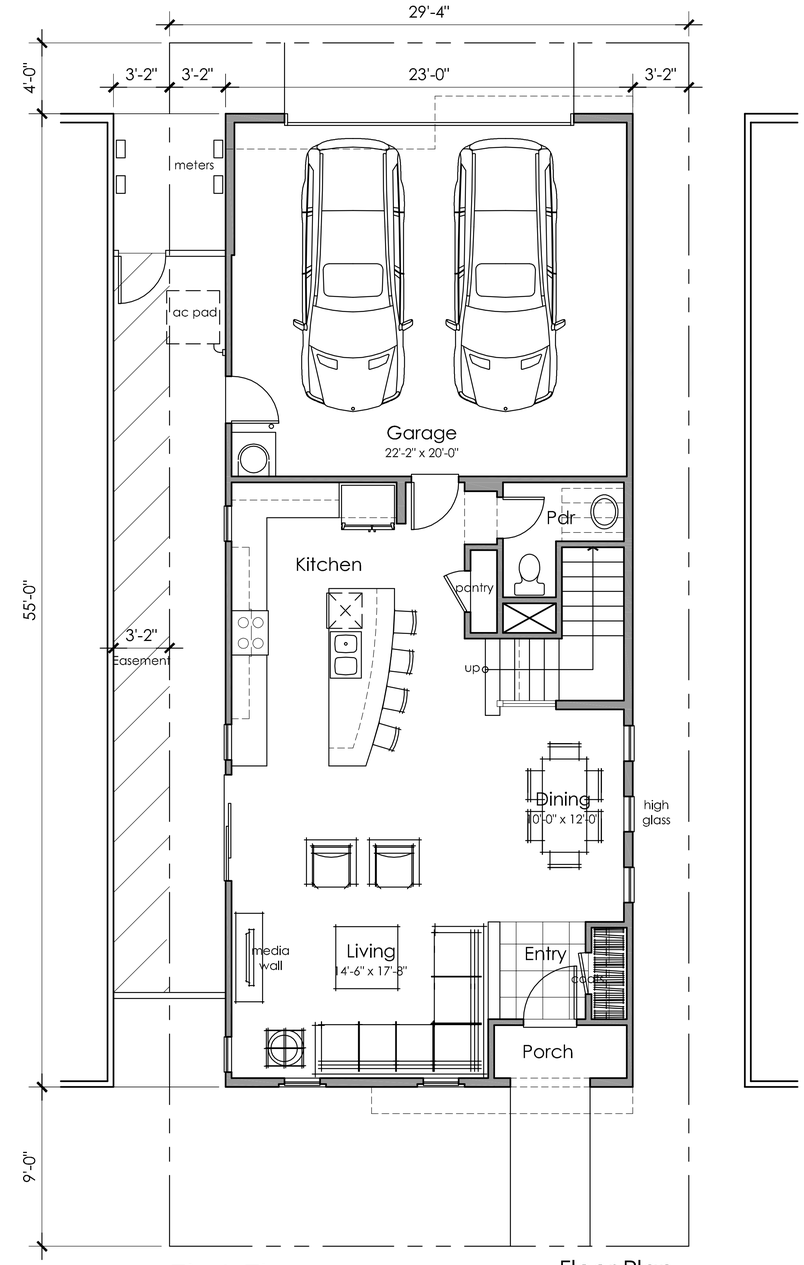


Second Floor
1,185 s.f.



First Floor
766 s.f.

Floor Plan
3 Bedrooms + Loft
2.5 Baths
1,951 s.f.

0 2 4 8

COBBLESTONE

PLAN 2A FLOOR PLAN

A2.1.1

TRI Pointe HOMES

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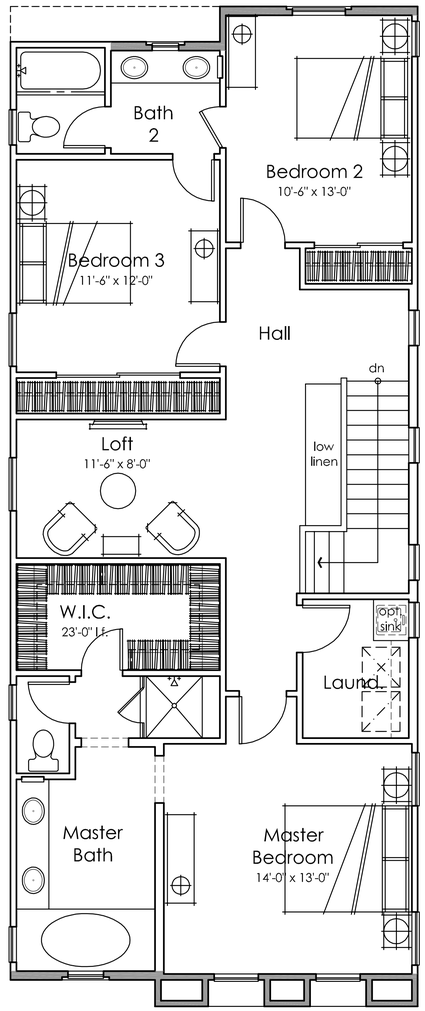
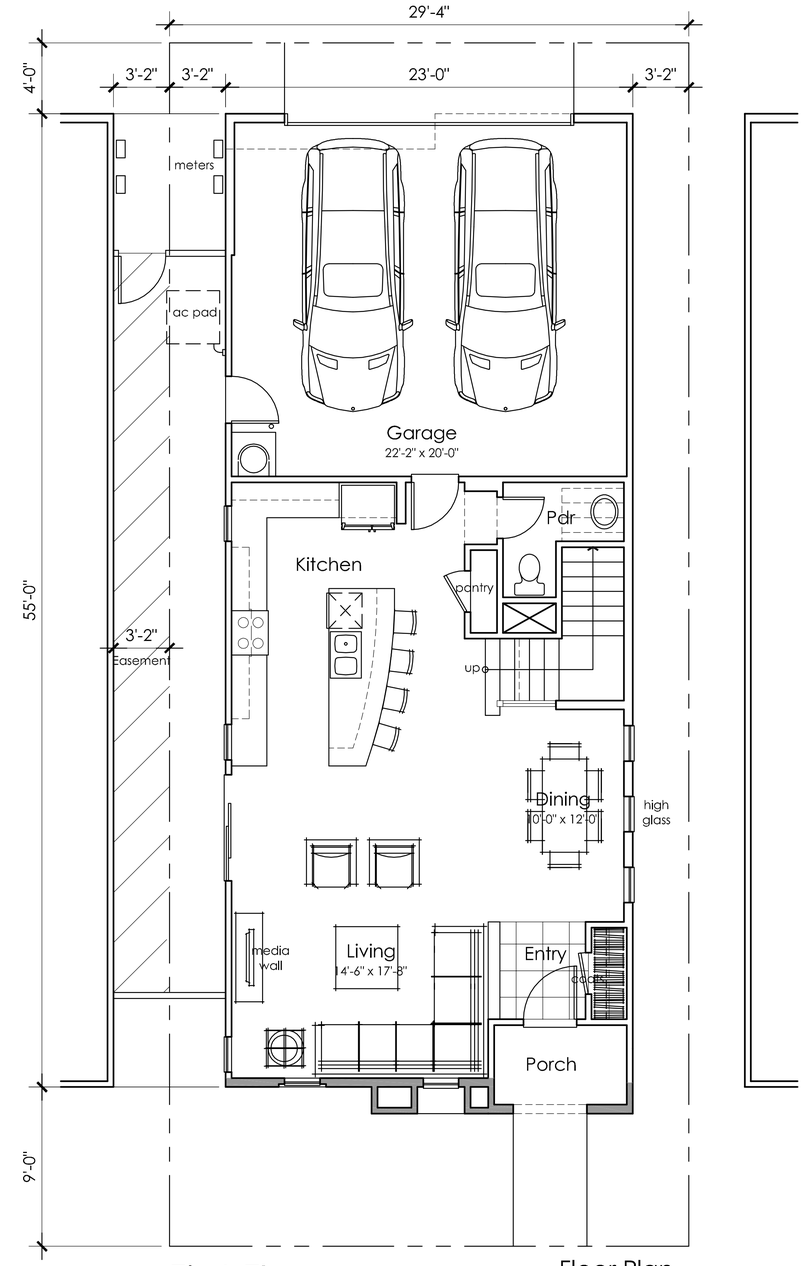


Second Floor
1,185 s.f.



First Floor
766 s.f.

Floor Plan
3 Bedrooms + Loft
2.5 Baths
1,951 s.f.

0 2 4 8

COBBLESTONE

PLAN 2B FLOOR PLAN

A2.1.2

MILPITAS, CALIFORNIA

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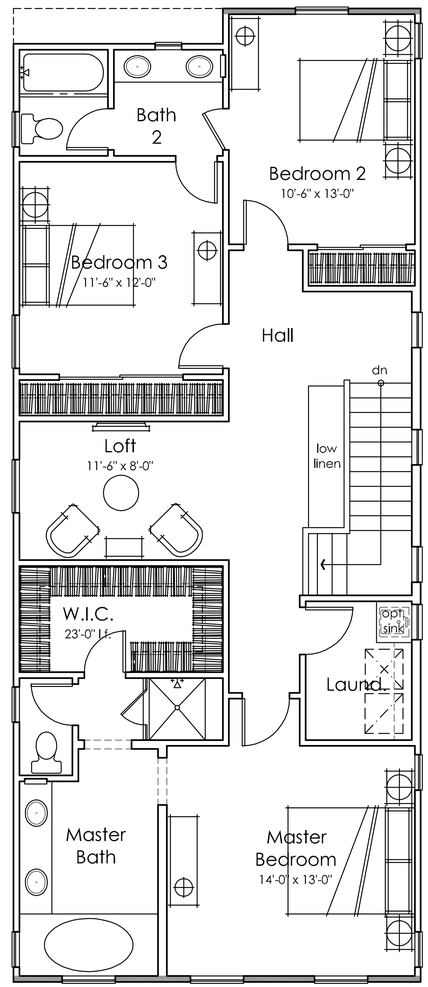

Second Floor
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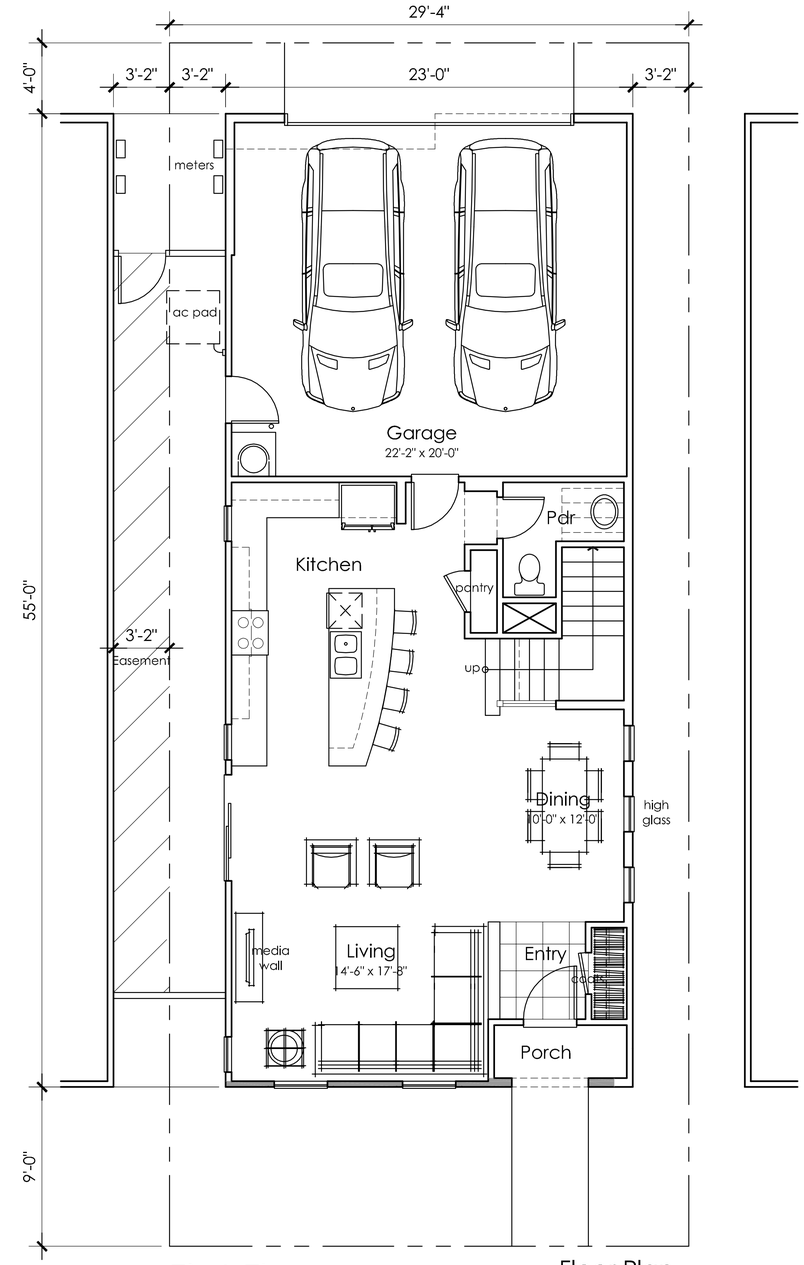

First Floor
766 s.f.

Floor Plan
3 Bedrooms + Loft
2.5 Baths
1,951 s.f.

0 2 4 8

COBBLESTONE

PLAN 2C FLOOR PLAN

A2.1.3

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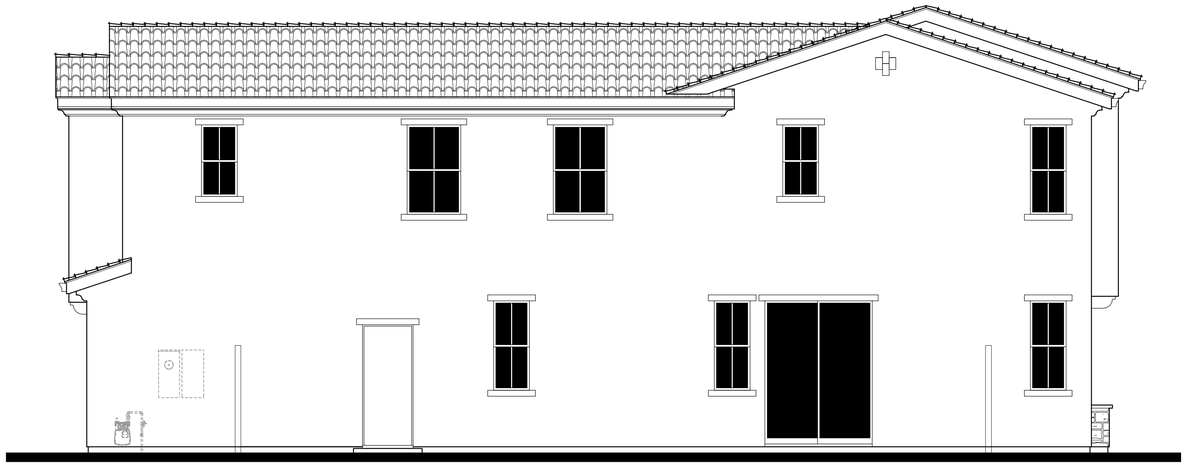

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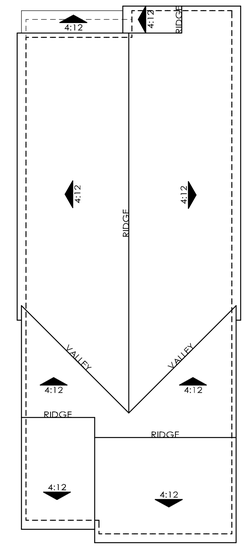
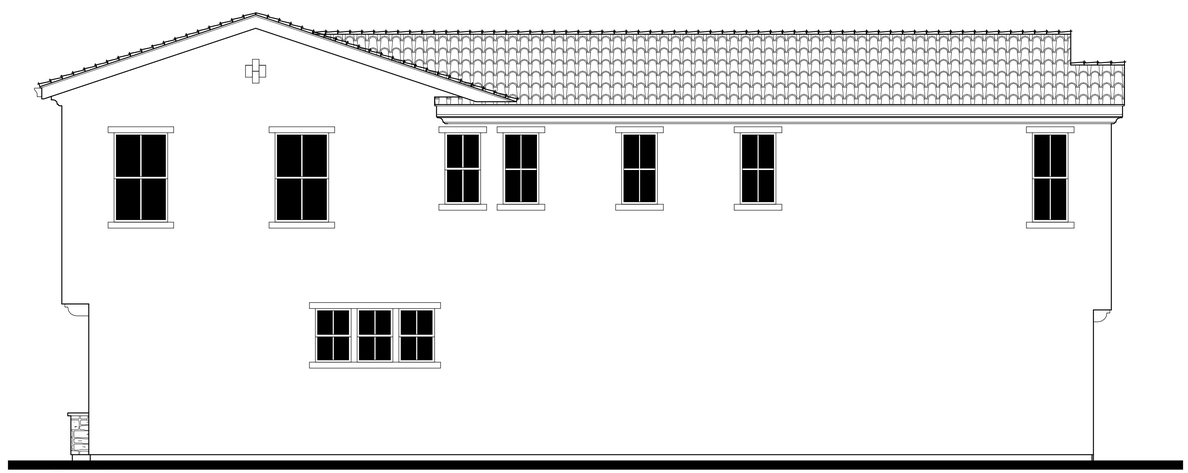


ROOF PLAN
OVERHANG : 12"
RAKE : 6"
ROOF PITCH : 4:12 U.N.O



RIGHT

REAR

COBBLESTONE

PLAN 2A - EXTERIOR ELEVATIONS

A2.2

MILPITAS, CALIFORNIA

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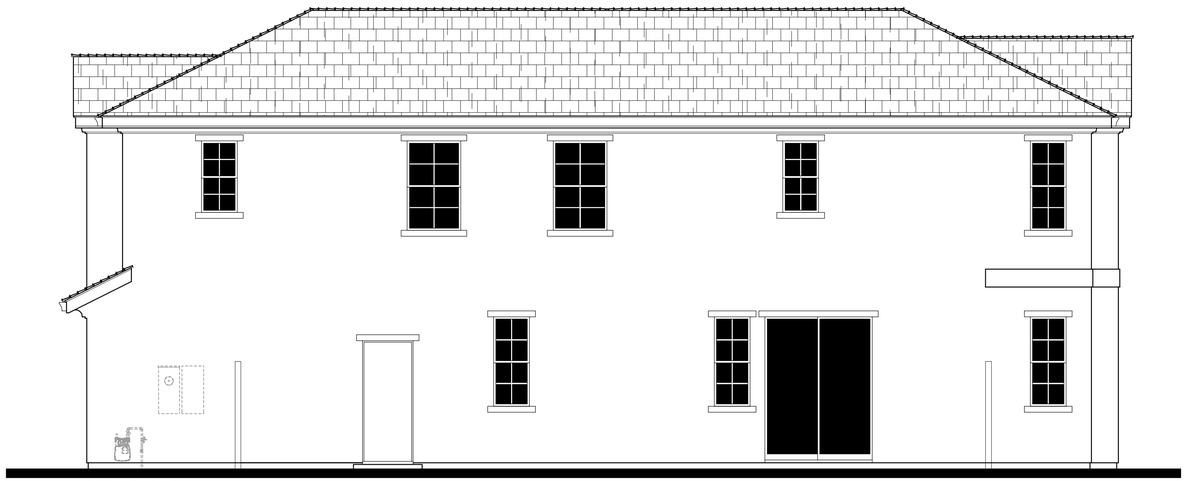

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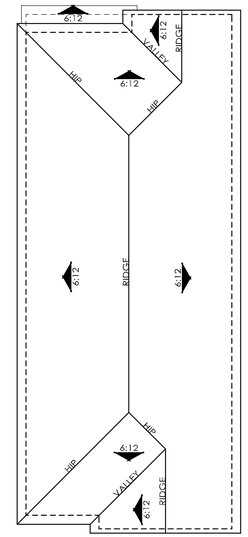
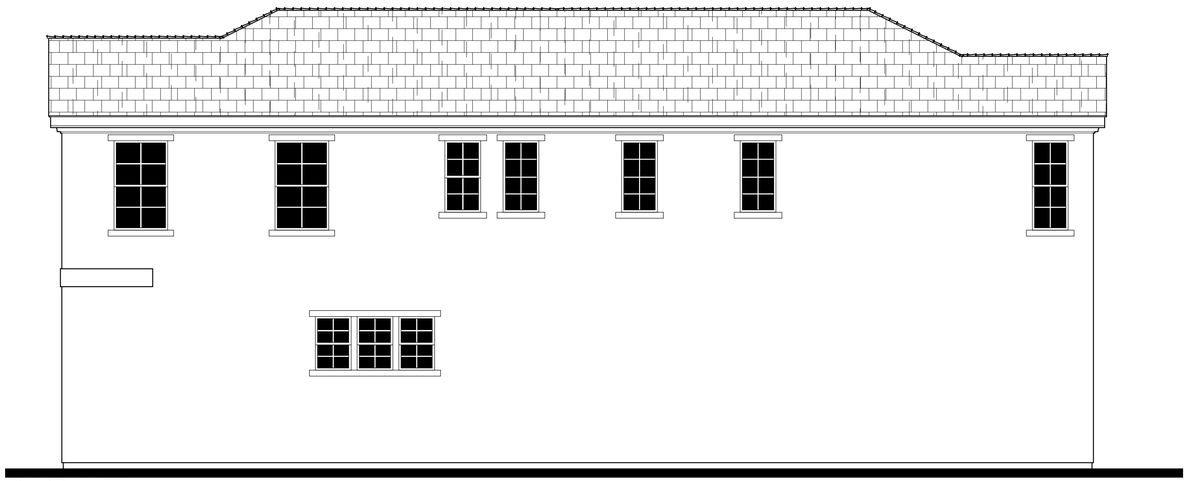


ROOF PLAN
OVERHANG : 12"
RAKE : 6"
ROOF PITCH : 6:12 U.N.O



RIGHT

REAR

COBBLESTONE

PLAN 2B - EXTERIOR ELEVATIONS

A2.3

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02-14-2014

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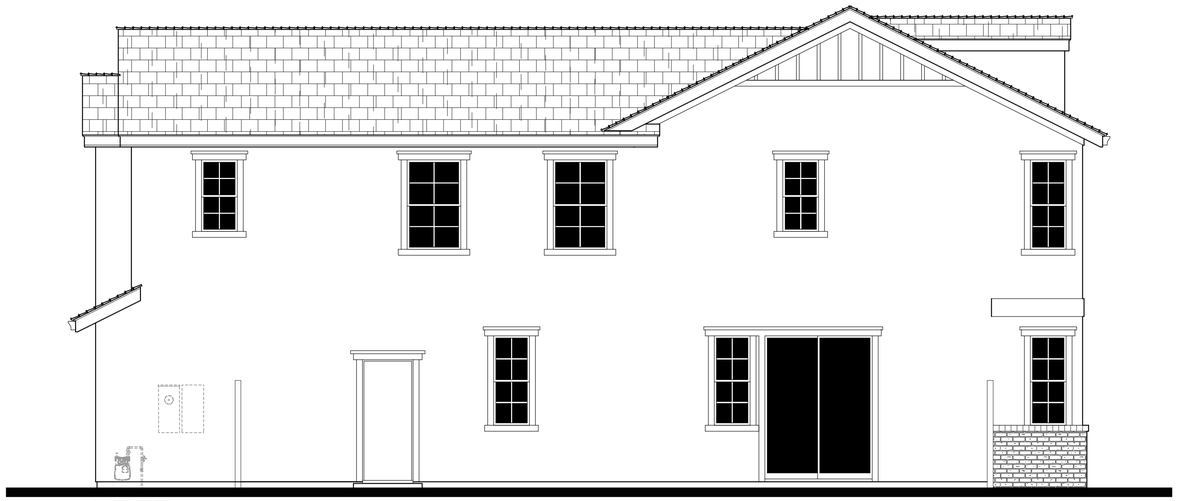

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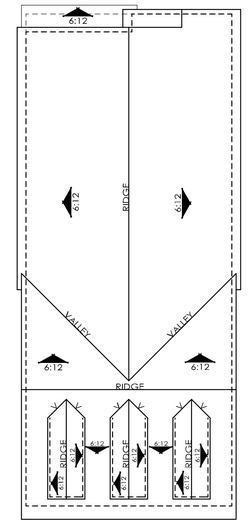
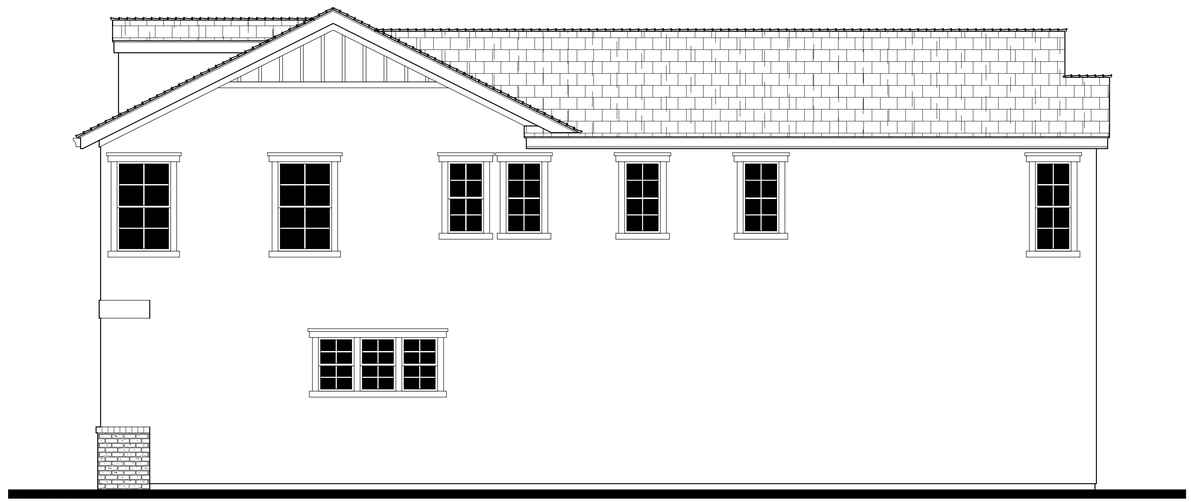


ROOF PLAN
OVERHANG : 12"
RAKE : 6"
ROOF PITCH : 6:12 U.N.O



RIGHT

REAR

COBBLESTONE

PLAN 2C - EXTERIOR ELEVATIONS

A2.4

TRI Pointe HOMES

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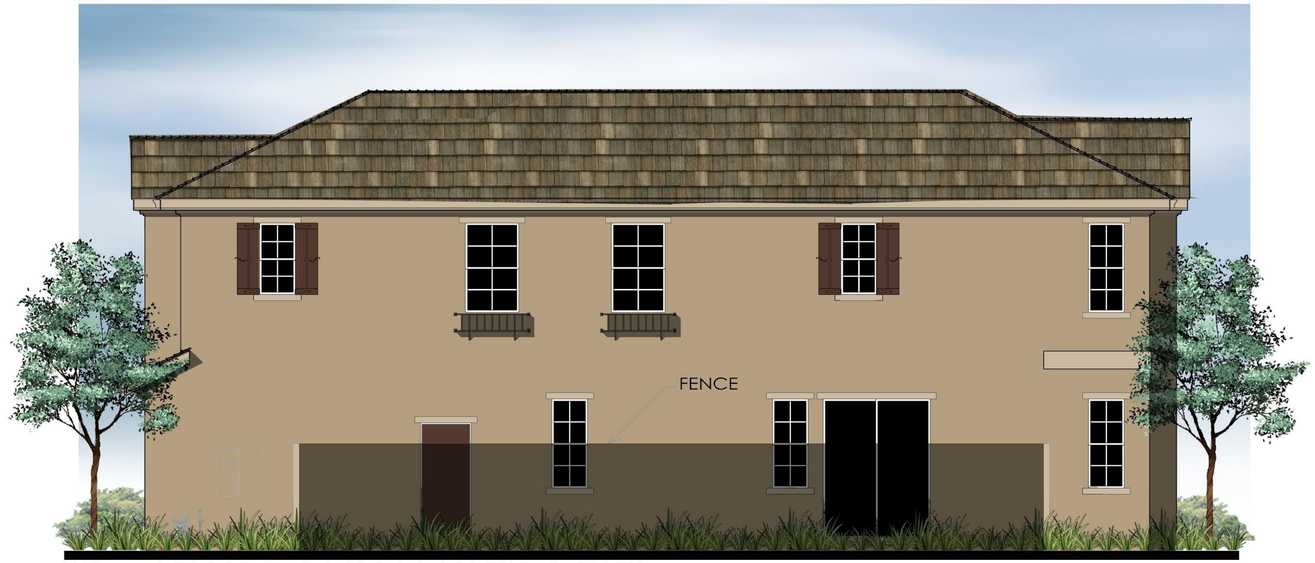

2B - AT LEFT ENHANCED LOTS

2C - AT LEFT ENHANCED LOTS

COBBLESTONE

PLAN 2 - ENHANCED LEFT EXTERIOR ELEVATIONS

A2.5

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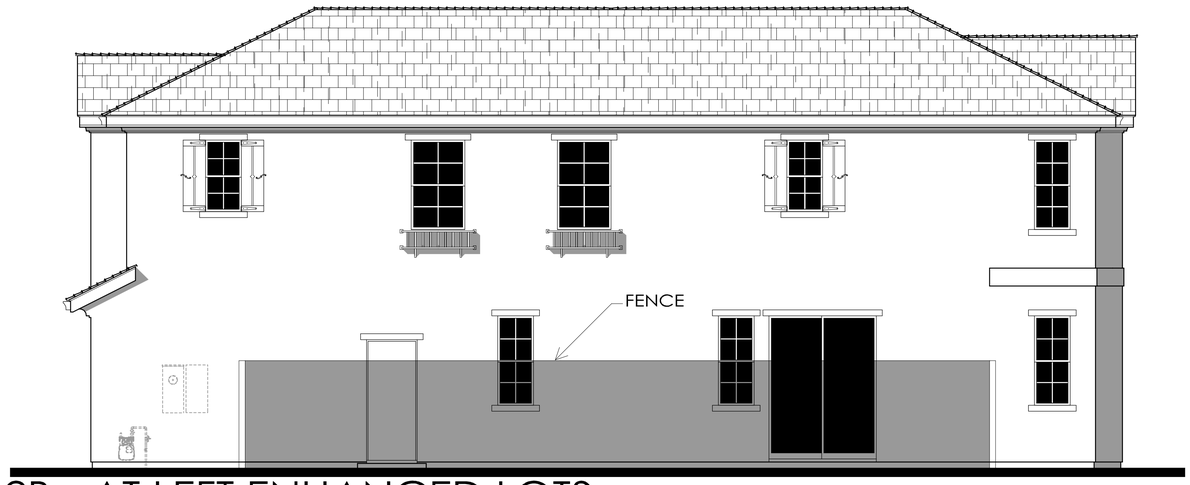
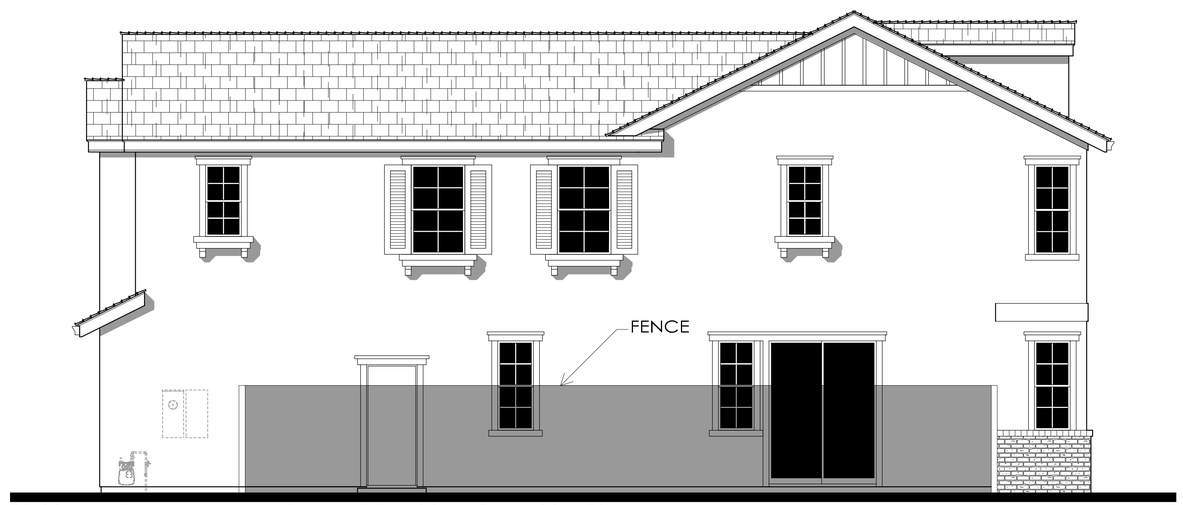


2B - AT LEFT ENHANCED LOTS



2C - AT LEFT ENHANCED LOTS

COBBLESTONE

PLAN 2 - ENHANCED LEFT EXTERIOR ELEVATIONS

A2.5

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2B - RIGHT AT ENHANCED LOTS ONLY

2A - RIGHT AT ENHANCED LOTS ONLY

2C - RIGHT AT ENHANCED LOTS ONLY

COBBLESTONE

PLAN 2 - ENHANCED RIGHT EXTERIOR ELEVATIONS A2.6

TRI Pointe HOMES

MILPITAS, CALIFORNIA

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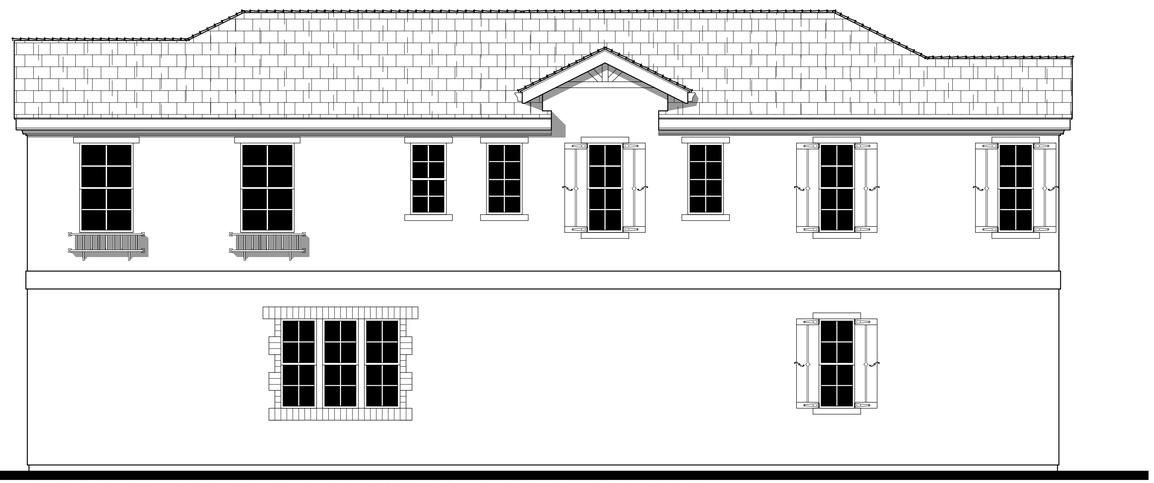
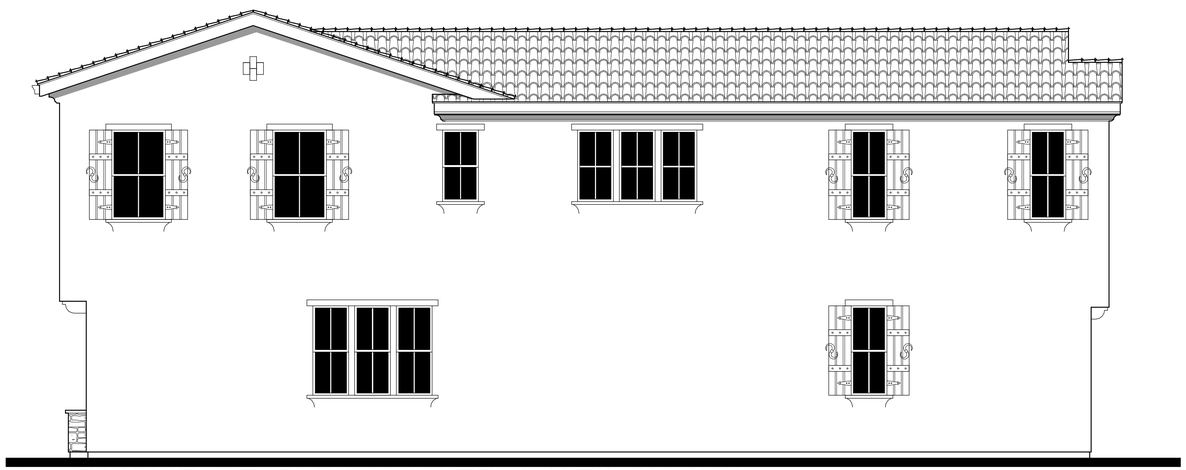


2B - RIGHT AT ENHANCED LOTS ONLY



2A - RIGHT AT ENHANCED LOTS ONLY

2C - RIGHT AT ENHANCED LOTS ONLY

COBBLESTONE

PLAN 2 - ENHANCED RIGHT EXTERIOR ELEVATIONS

A2.6

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ELEVATION 3A-ALTERNATE

ELEVATION 3A

ELEVATION 3B

ELEVATION 3C

COBBLESTONE

STREET SCENE ON SOUTH MILIPITAS

MILPITAS, CALIFORNIA

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1.8.2014

02-14-2014

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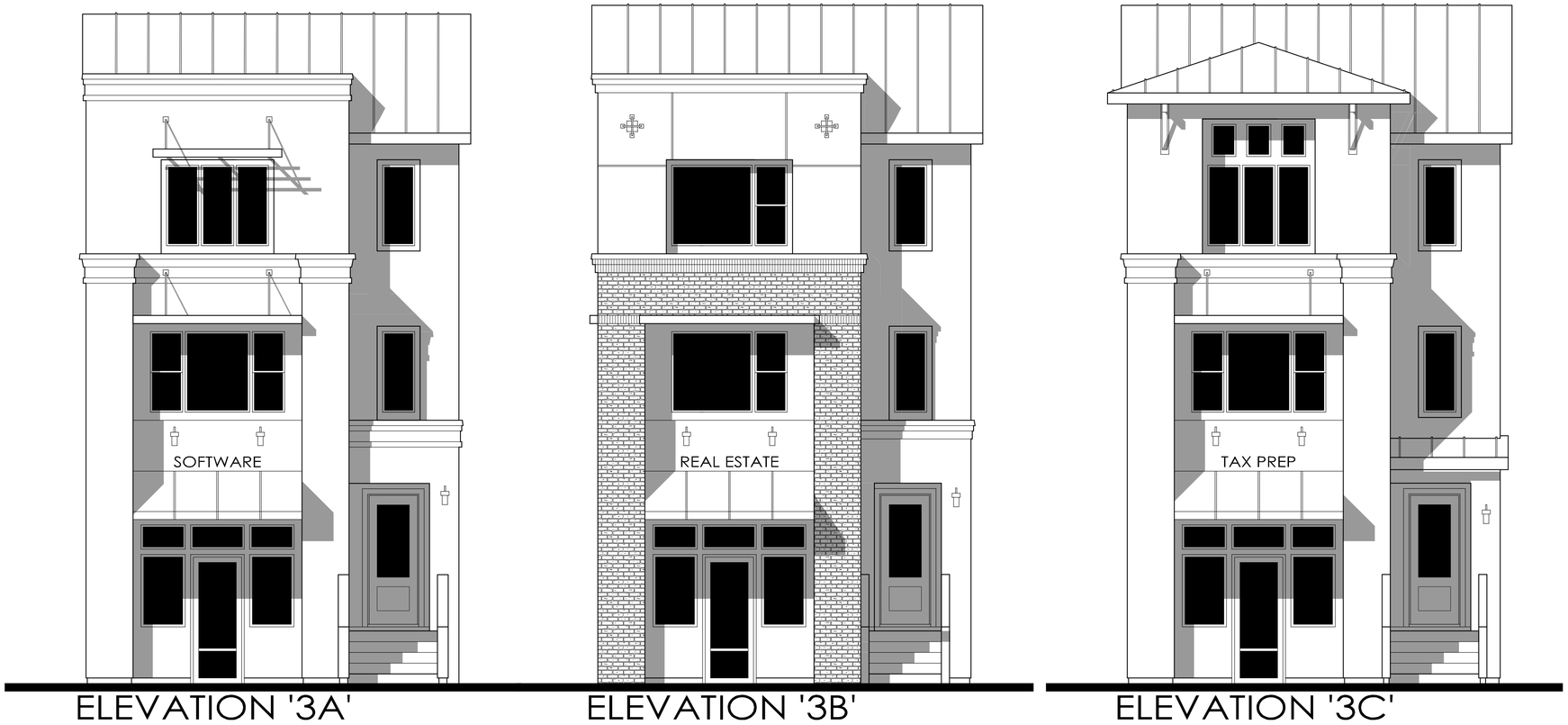

COBBLESTONE

PLAN 3 - FRONT ELEVATIONS

A3.0

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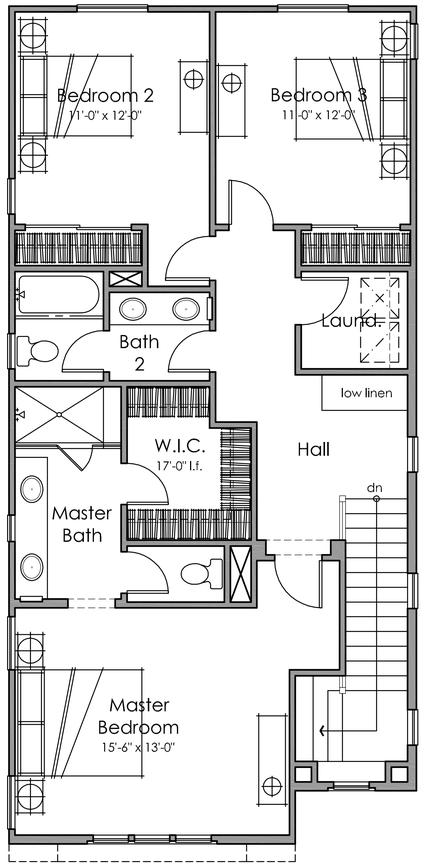
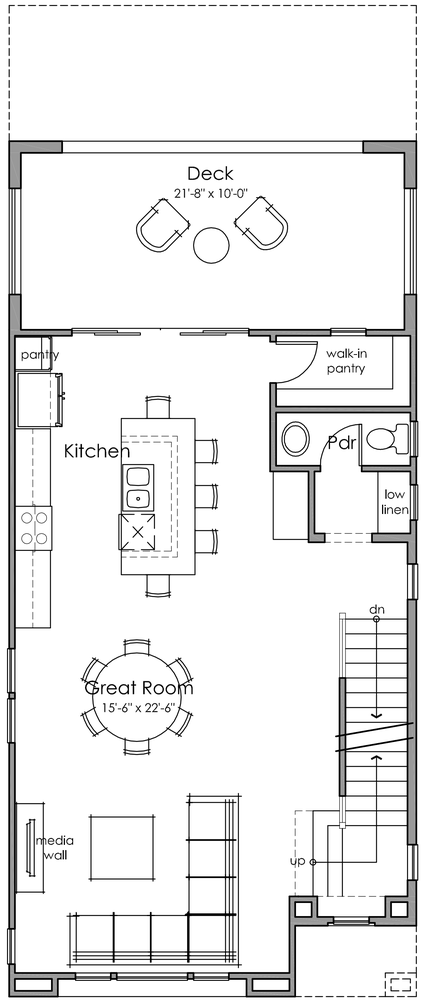
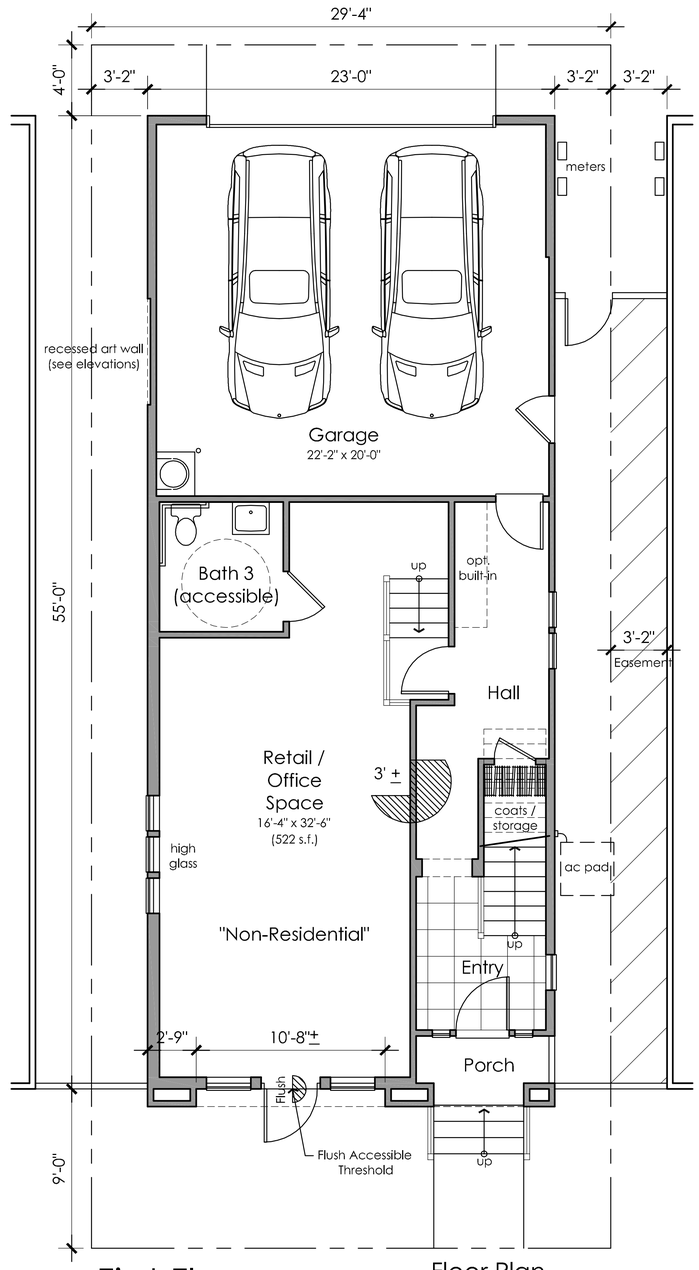


Third Floor
983 s.f.

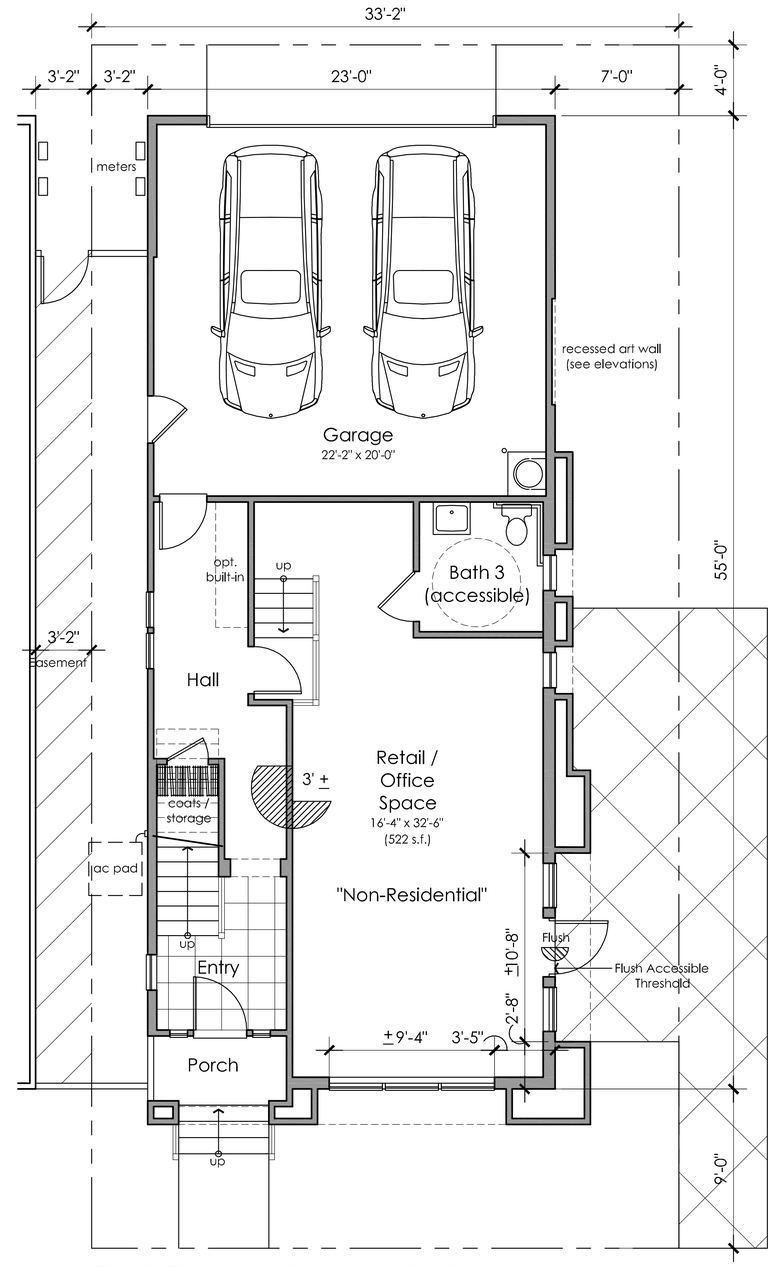


Second Floor
822 s.f.



First Floor
224 s.f.

Floor Plan
3 Bedrooms
2.5 Baths / Opt. Bath 3
2,007 s.f.



First Floor (Corner Lot)

0 2 4 8

COBBLESTONE

PLAN 3A FLOOR PLAN - LIVE / WORK

A3.1.1

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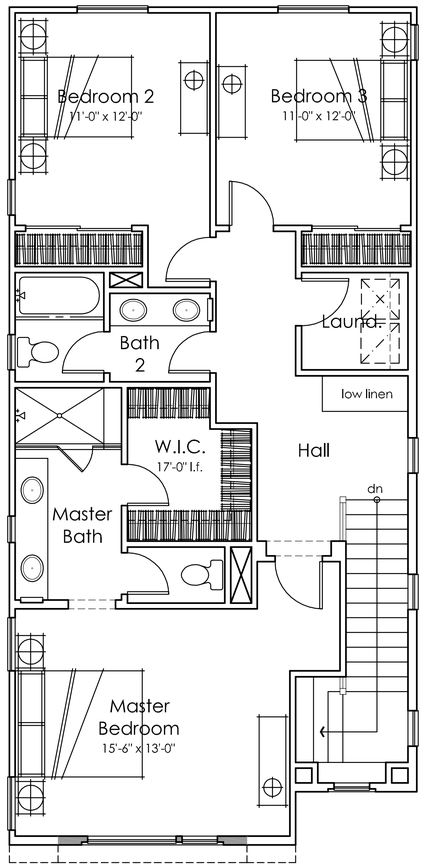
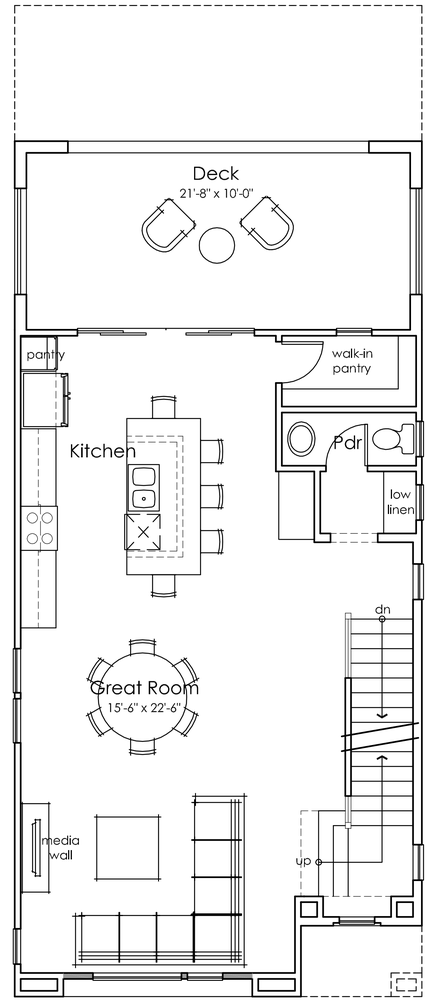
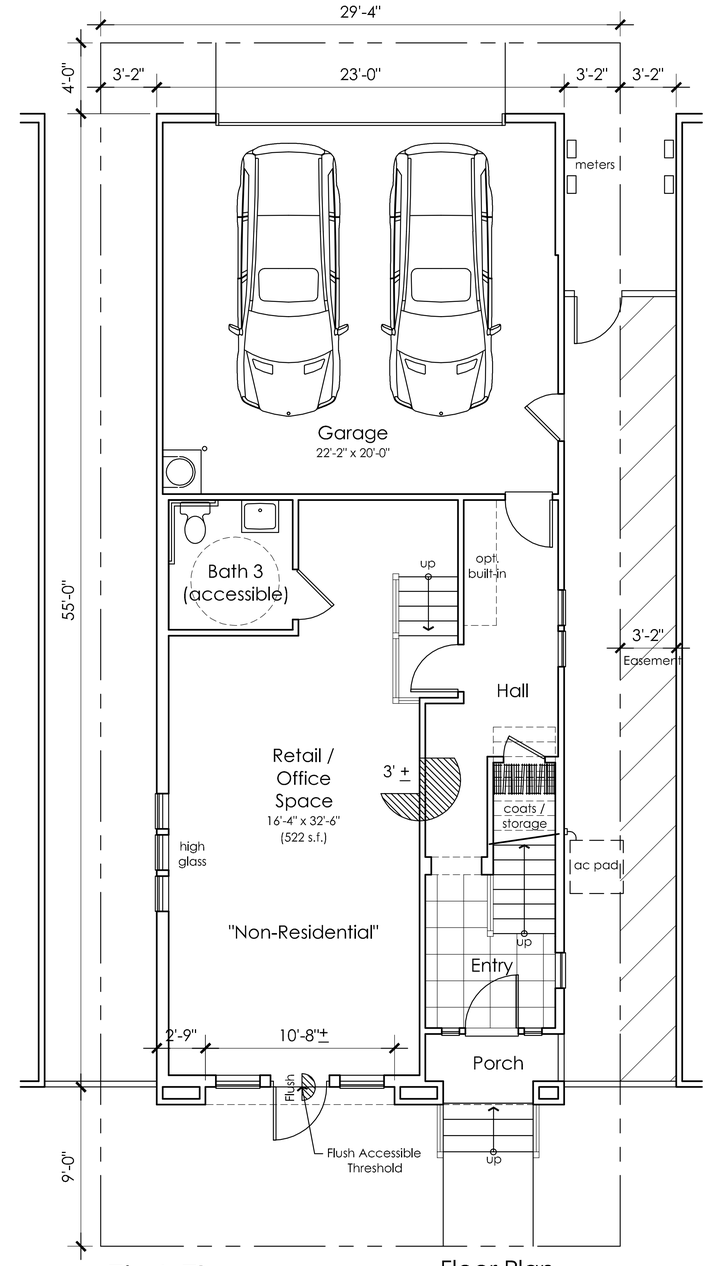


Third Floor
983 s.f.



Second Floor
822 s.f.



First Floor
224 s.f.

Floor Plan
3 Bedrooms
2.5 Baths / Opt. Bath 3
2,007 s.f.

0 2 4 8

COBBLESTONE

PLAN 3B FLOOR PLAN - LIVE / WORK

A3.1.2

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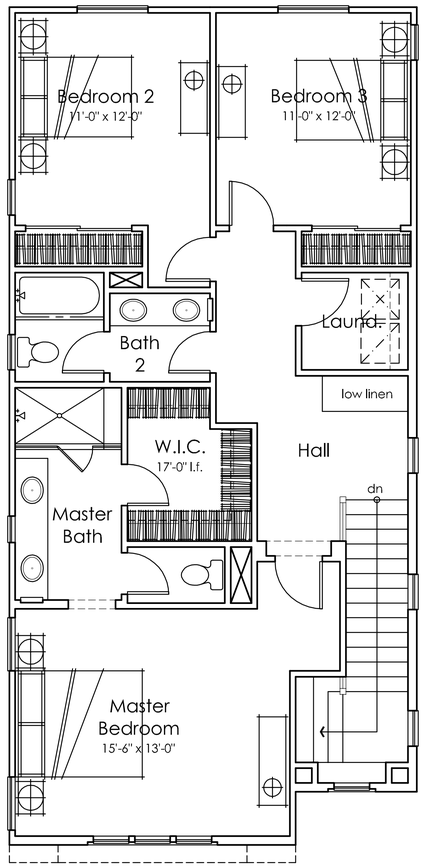
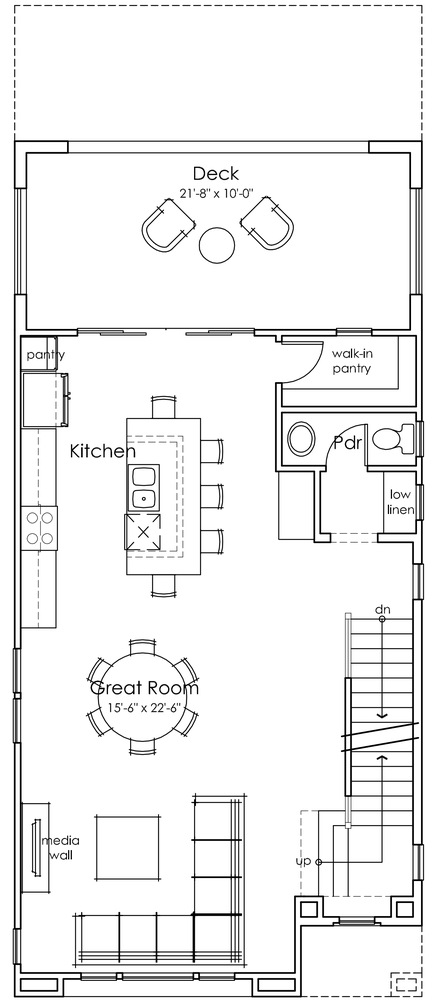
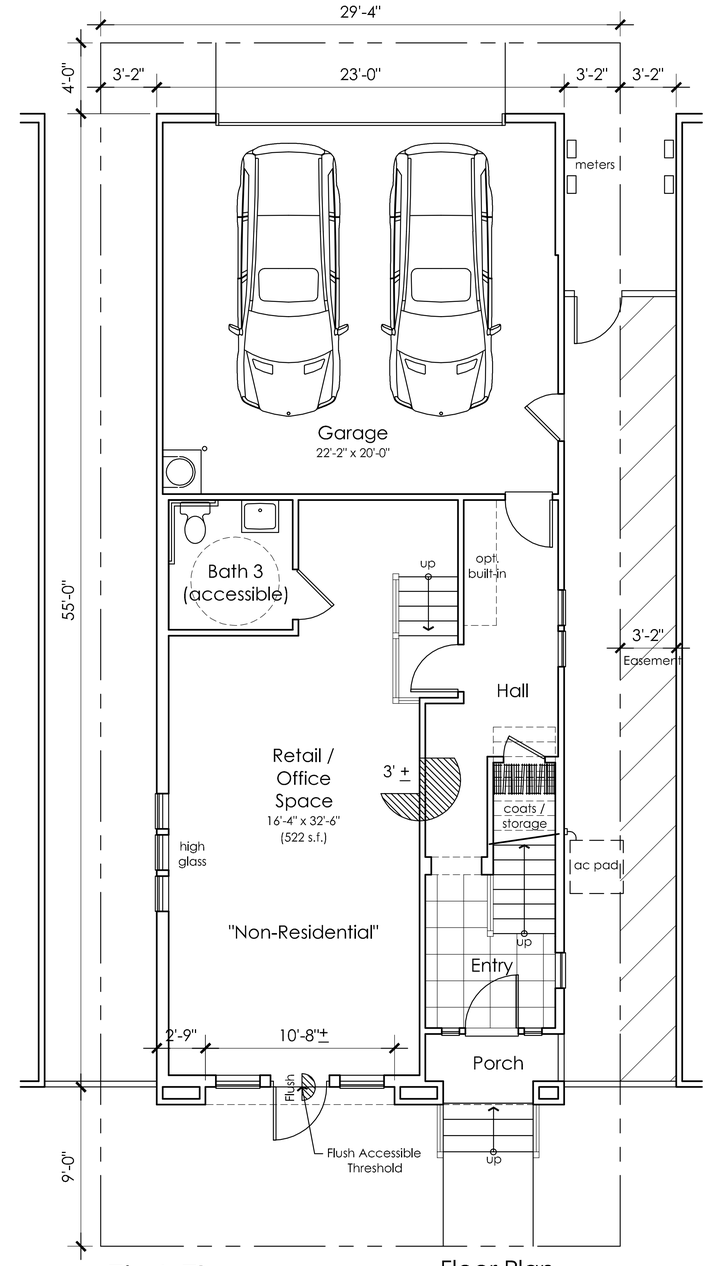


Third Floor
983 s.f.



Second Floor
822 s.f.



First Floor
224 s.f.

Floor Plan
3 Bedrooms
2.5 Baths / Opt. Bath 3
2,007 s.f.

0 2 4 8

COBBLESTONE

PLAN 3C FLOOR PLAN - LIVE / WORK

A3.1.3

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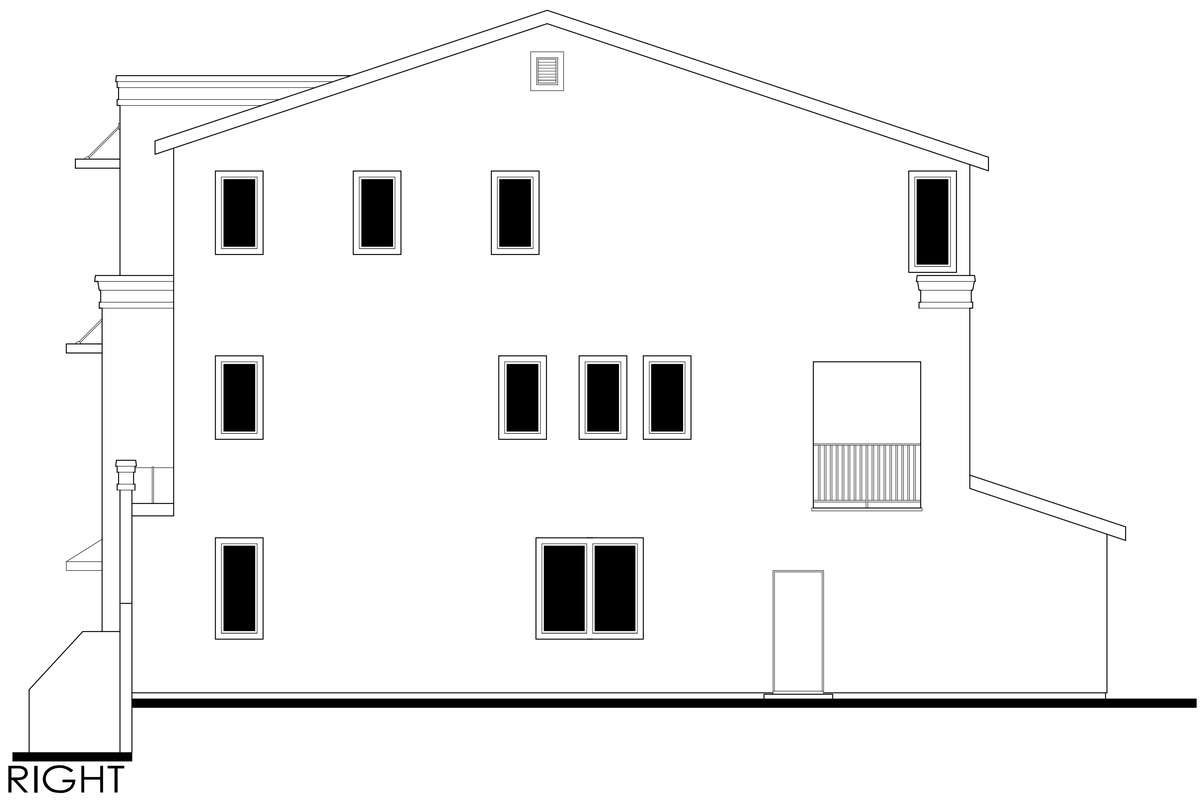

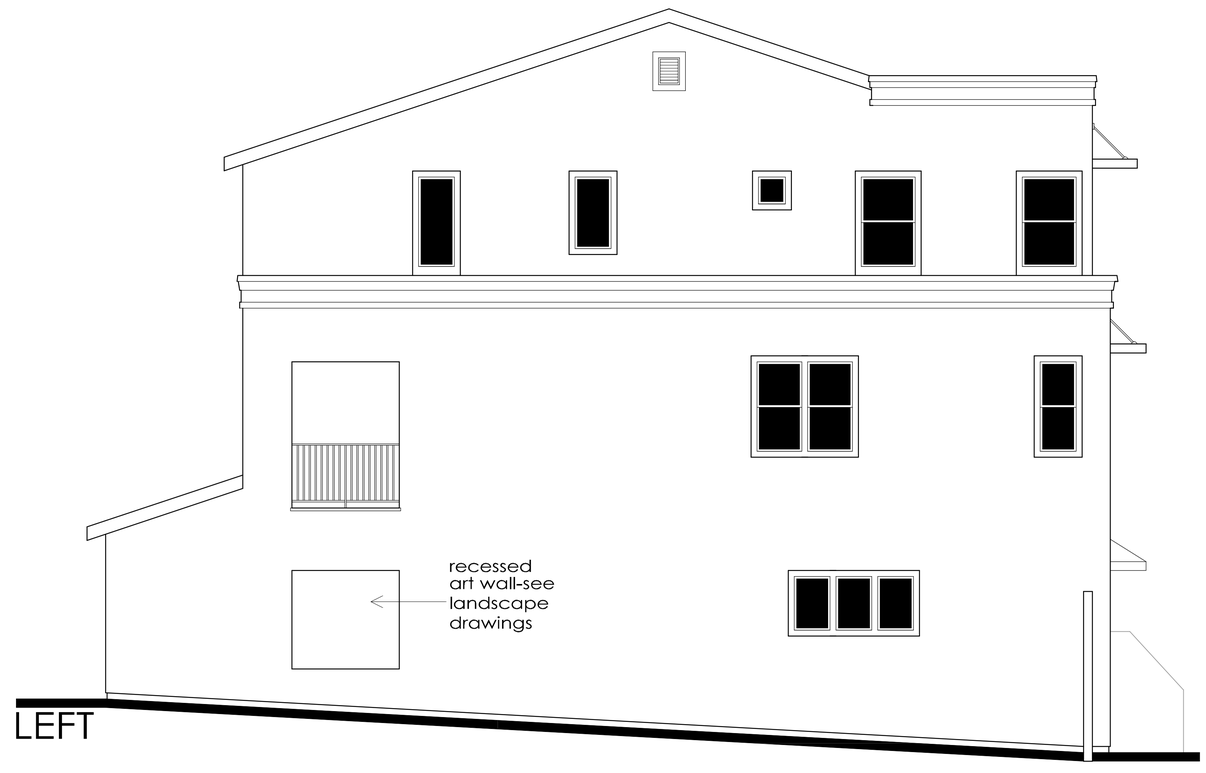

COBBLESTONE

PLAN 3A - EXTERIOR ELEVATIONS

A3.2

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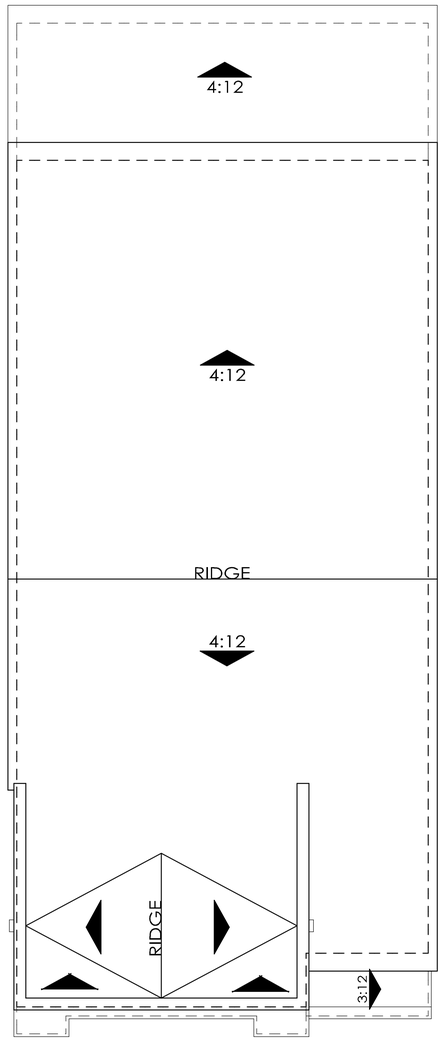
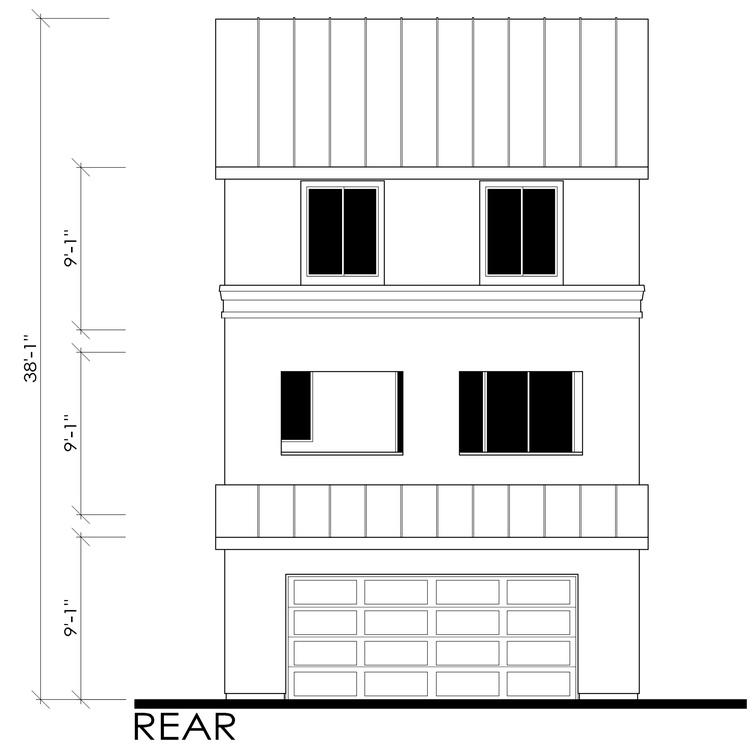


ROOF PLAN
OVERHANG : 12"
RAKE : 2"
ROOF PITCH : 4:12 U.N.O



REAR

COBBLESTONE

PLAN 3A - EXTERIOR ELEVATIONS

A3.3

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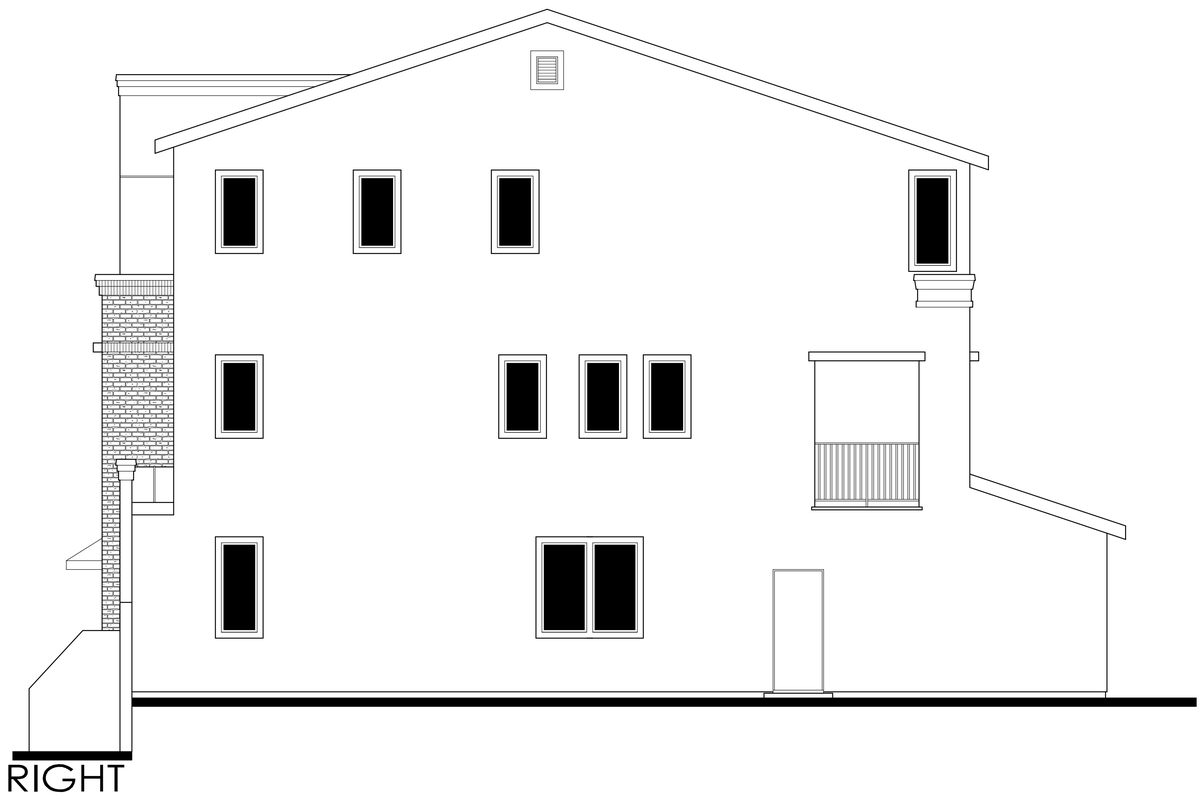

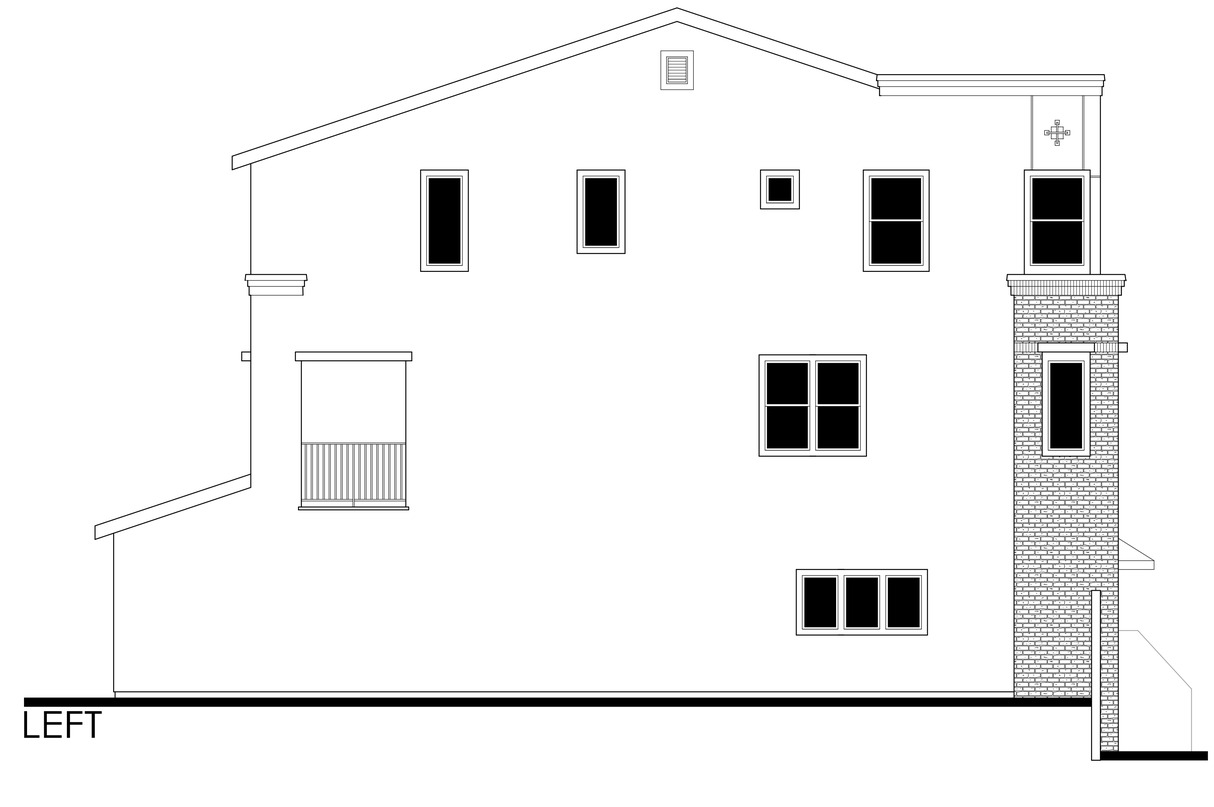

COBBLESTONE

PLAN 3B - EXTERIOR ELEVATIONS

A3.4

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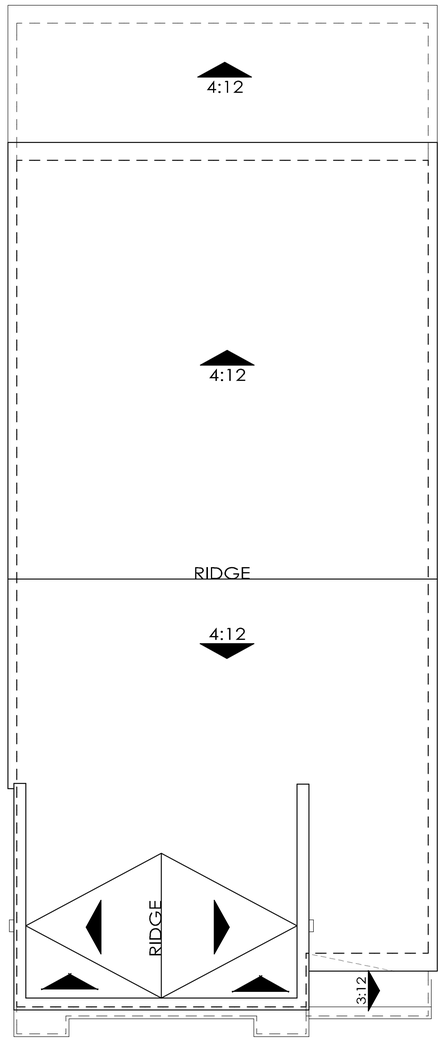
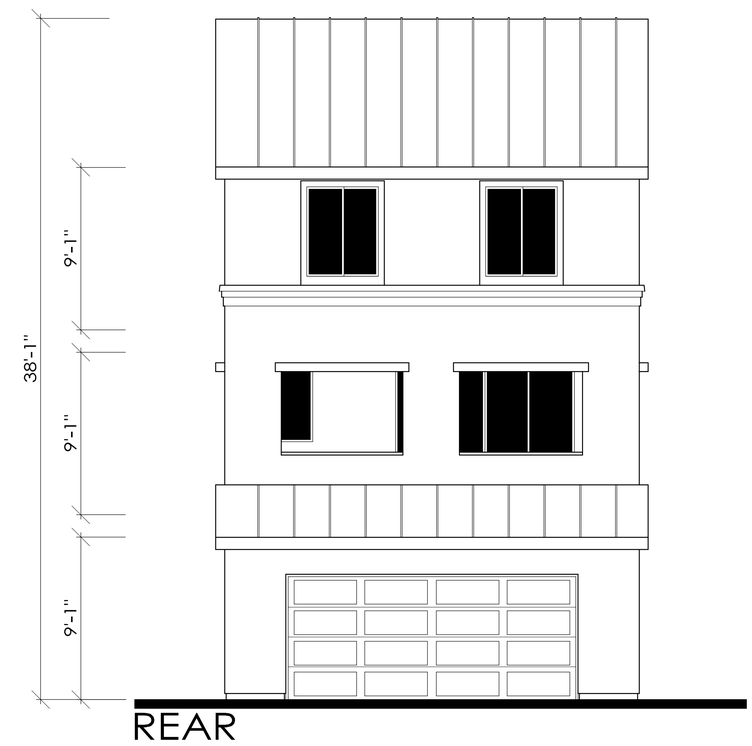


ROOF PLAN
OVERHANG : 12"
RAKE : 2"
ROOF PITCH : 4:12 U.N.O



REAR

COBBLESTONE

PLAN 3B - EXTERIOR ELEVATIONS

A3.5

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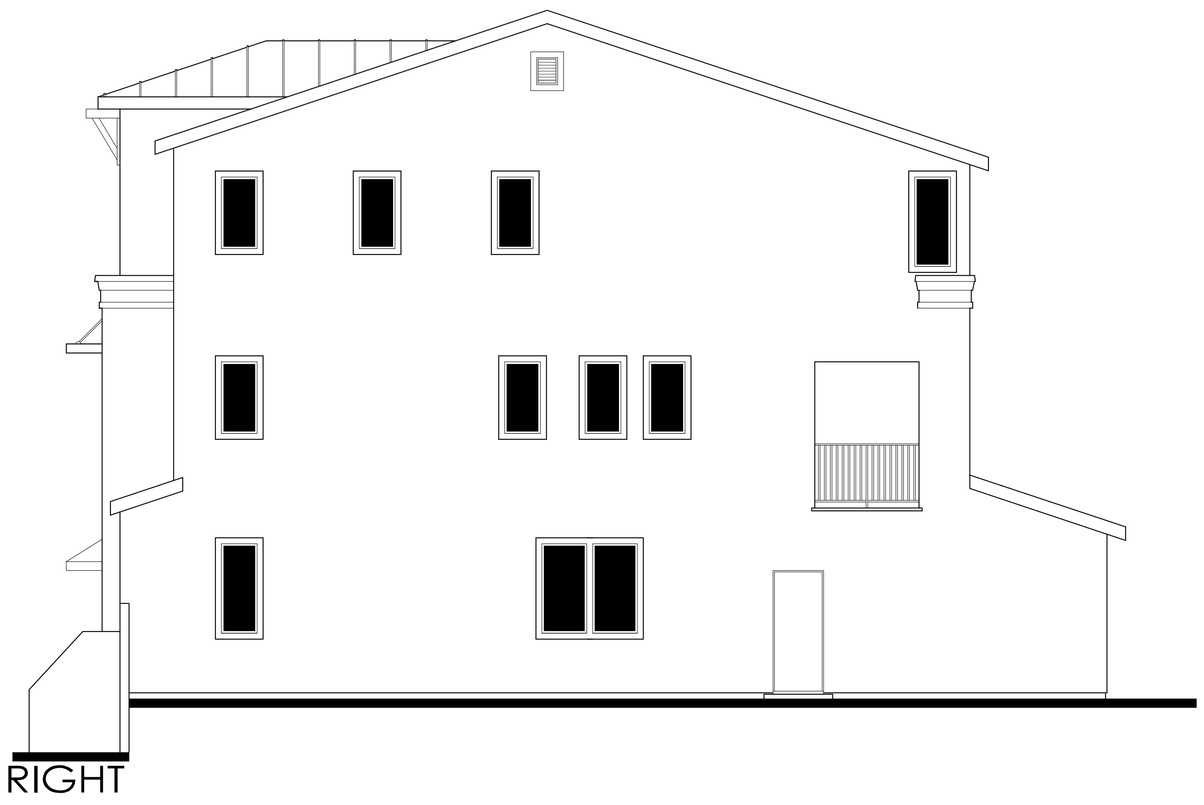

COBBLESTONE

PLAN 3C - EXTERIOR ELEVATIONS

A3.6

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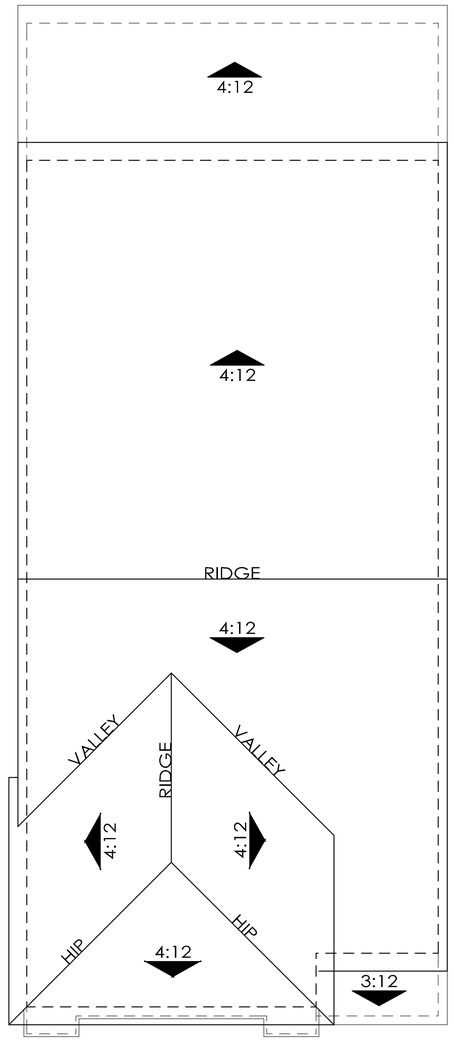
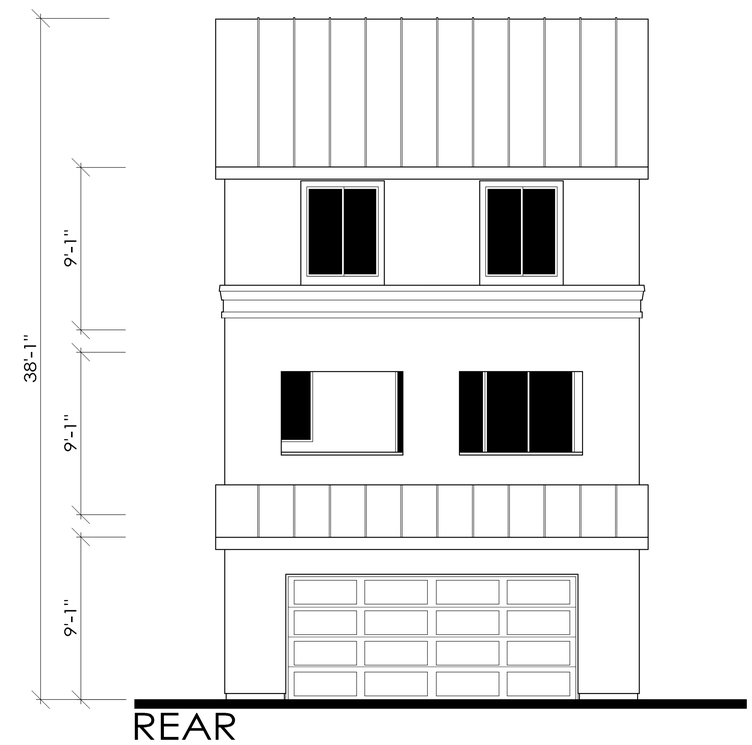


ROOF PLAN
OVERHANG : 12"
RAKE : 2"
ROOF PITCH : 4:12 U.N.O



REAR

COBBLESTONE

PLAN 3C - EXTERIOR ELEVATIONS

A3.7

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ELEVATION 3A -ALT

COBBLESTONE

PLAN 3ALT - FRONT ELEVATION

A3.8

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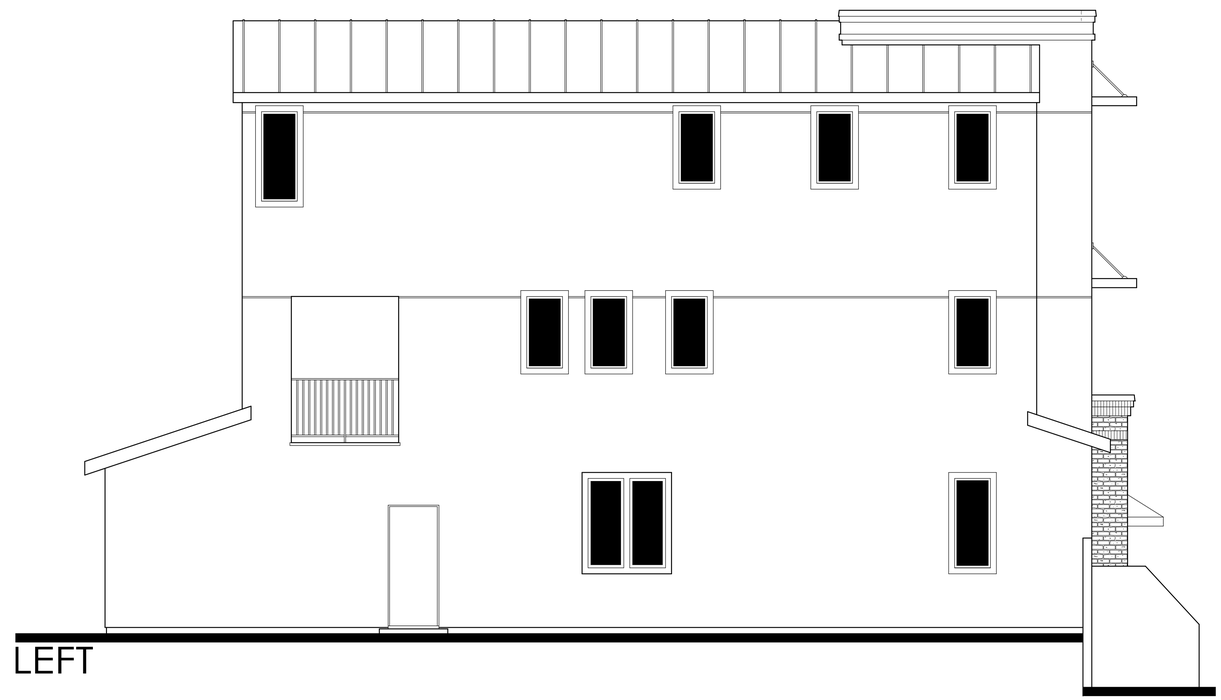
ELEVATION '3A - ALT'



LEFT

COBBLESTONE

PLAN 3A ALT - EXTERIOR ELEVATIONS

A3.9

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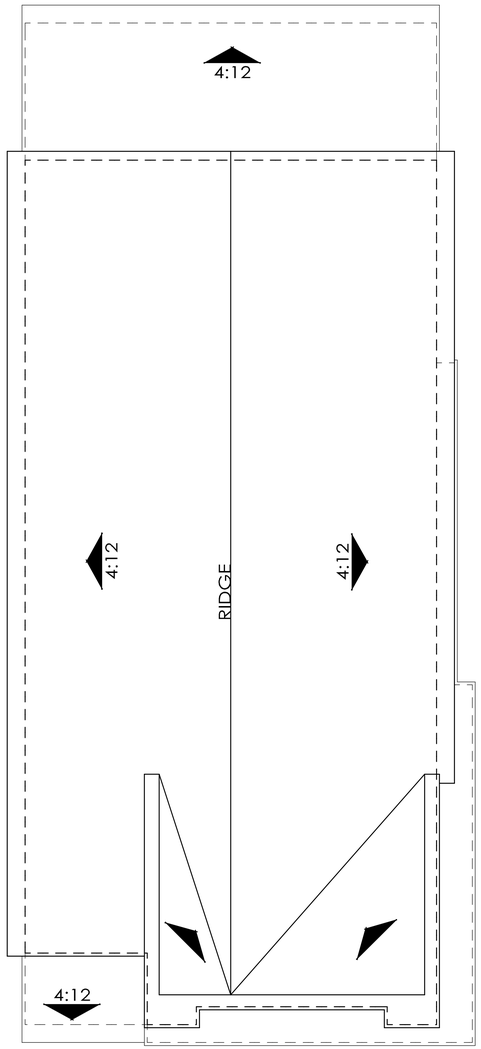

ROOF PLAN
OVERHANG : 12"
RAKE : 2"
ROOF PITCH : 4:12 U.N.O

REAR

COBBLESTONE

PLAN 3A ALT - EXTERIOR ELEVATIONS

A3.10

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ELEVATION '4A' - TUSCAN

ELEVATION '4B' - ENGLISH

ELEVATION '4C' - TRADITIONAL

COBBLESTONE

PLAN 4 - FRONT ELEVATIONS

A4.0

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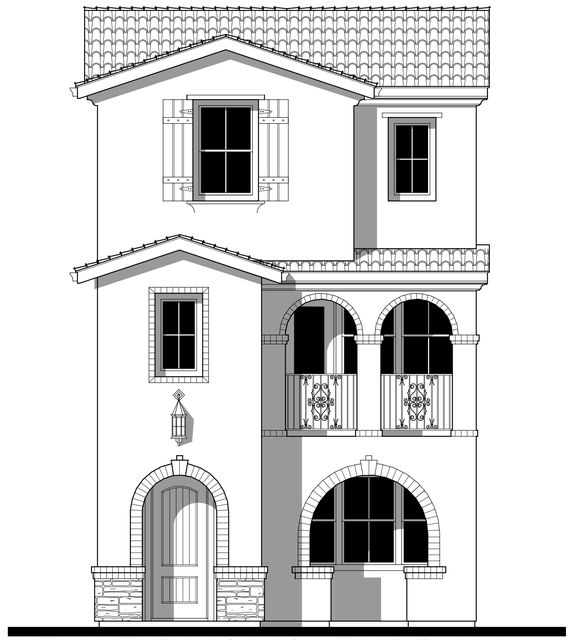

ELEVATION '4A' - TUSCAN

ELEVATION '4B' - ENGLISH

ELEVATION '4C' - TRADITIONAL

COBBLESTONE

PLAN 4 - FRONT ELEVATIONS

A4.0

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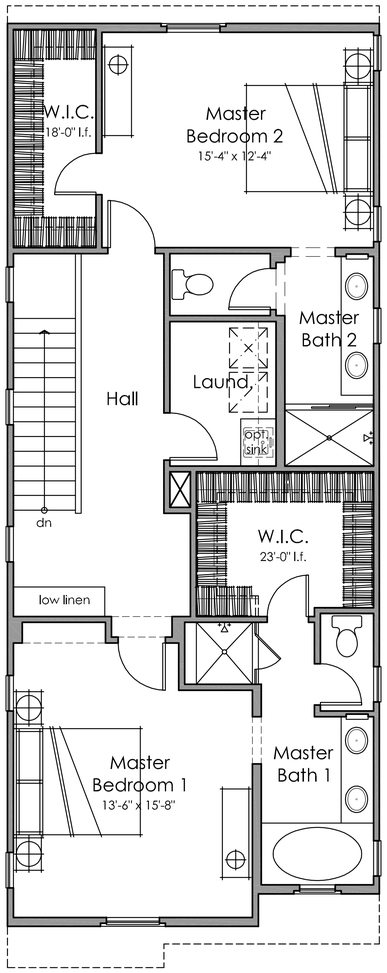
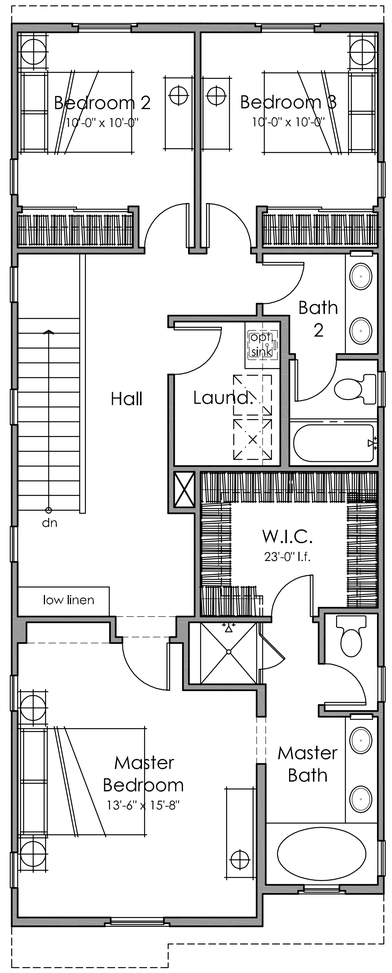
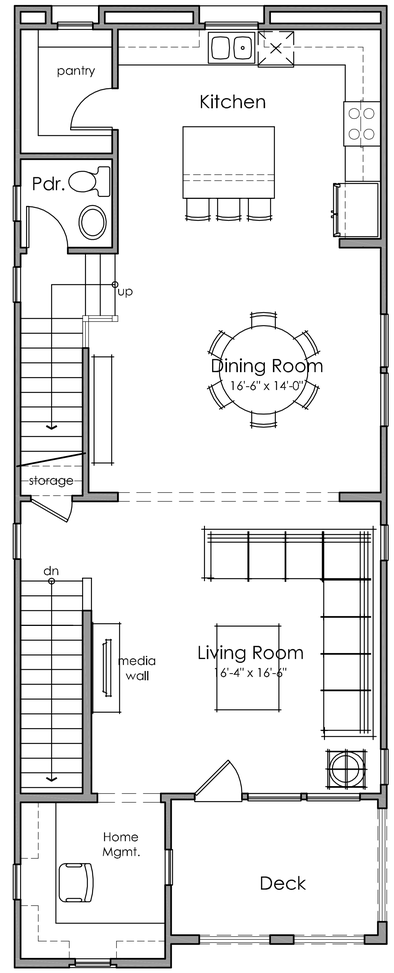


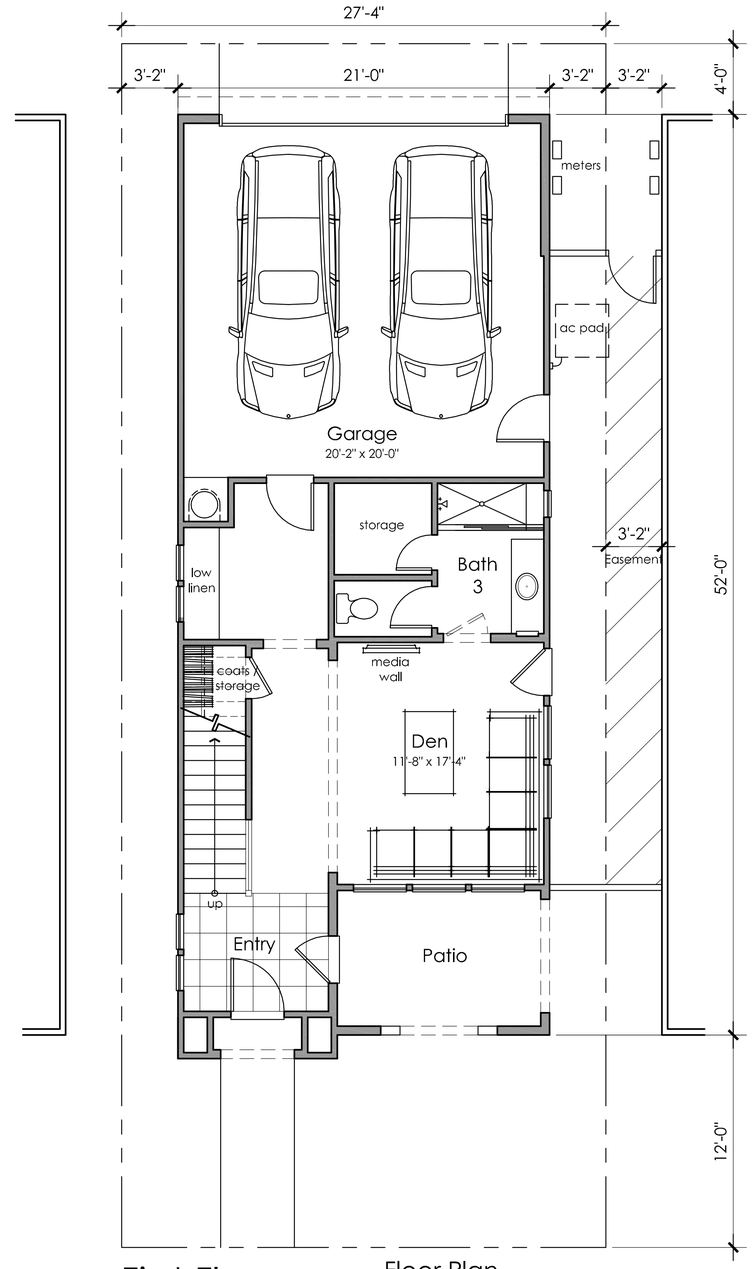
Alt. Third Floor
1,001 s.f.



Third Floor
1,001 s.f.



Second Floor
958 s.f.



First Floor
547 s.f.

Floor Plan
3 Bedrooms + Den
3.5 Baths
2,506 s.f.

0 2 4 8

A4.1.1

COBBLESTONE

PLAN 4A FLOOR PLAN

MILPITAS, CALIFORNIA

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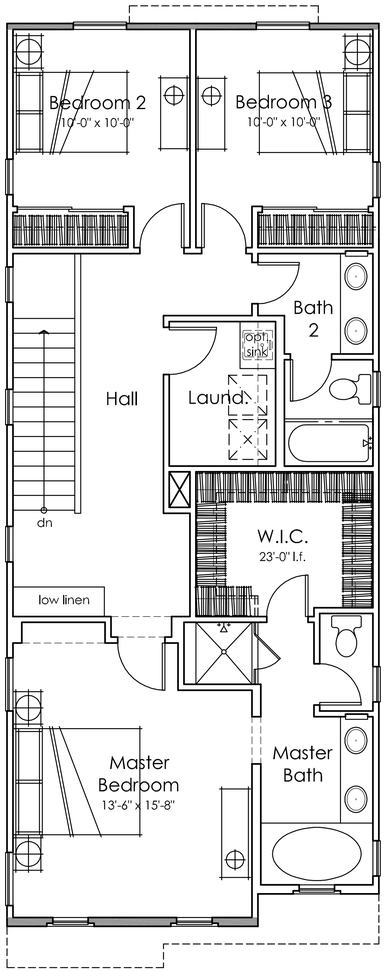

Third Floor
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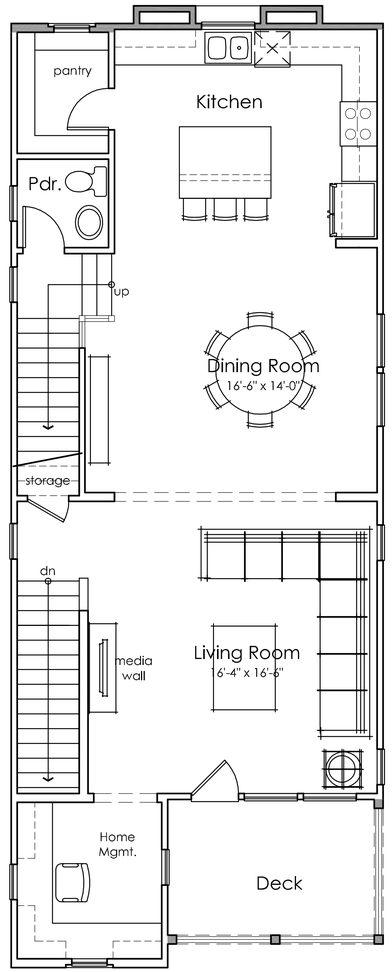
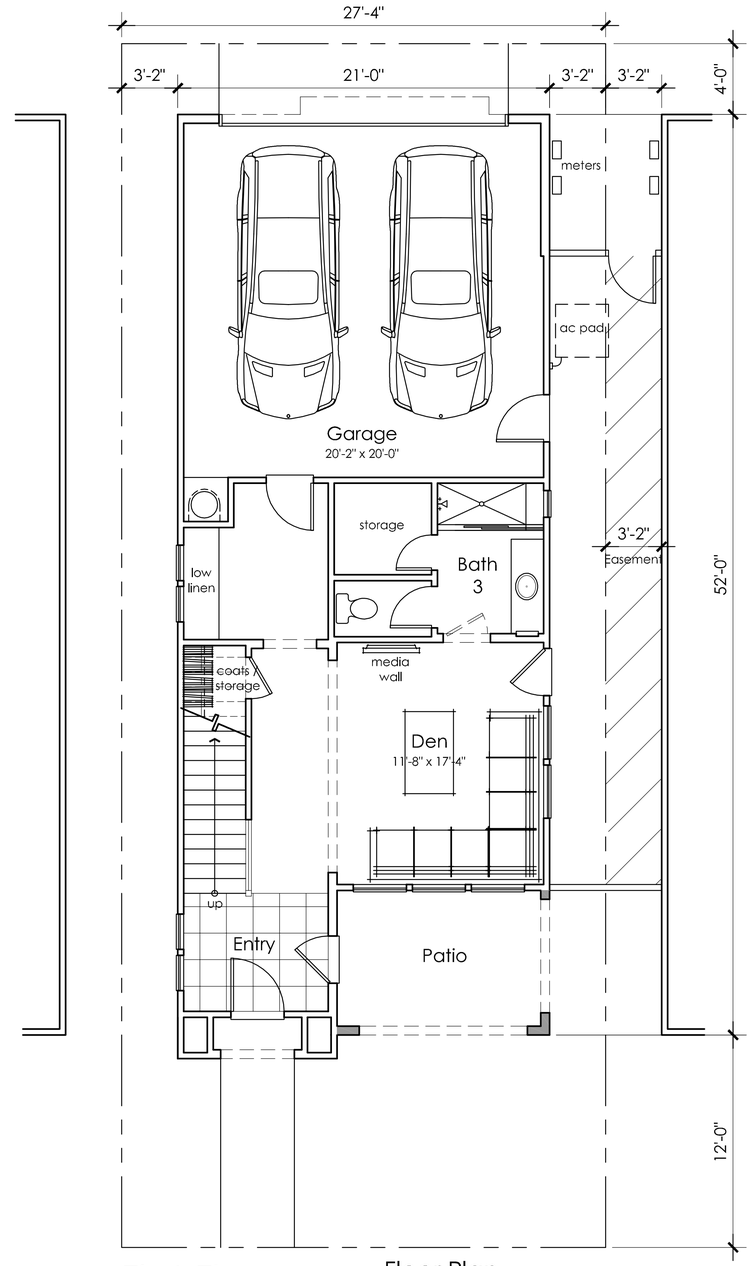


Second Floor
958 s.f.



First Floor
547 s.f.

Floor Plan
3 Bedrooms + Den
3.5 Baths
2,506 s.f.

0 2 4 8

COBBLESTONE

PLAN 4B FLOOR PLAN

A4.1.2

MILPITAS, CALIFORNIA

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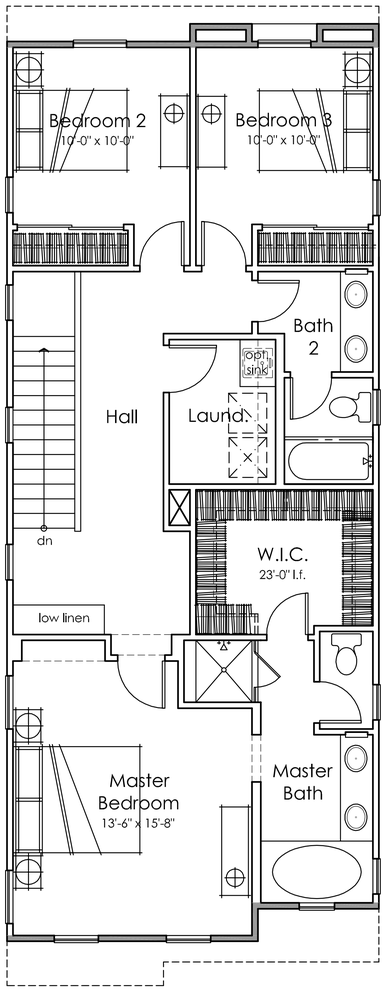
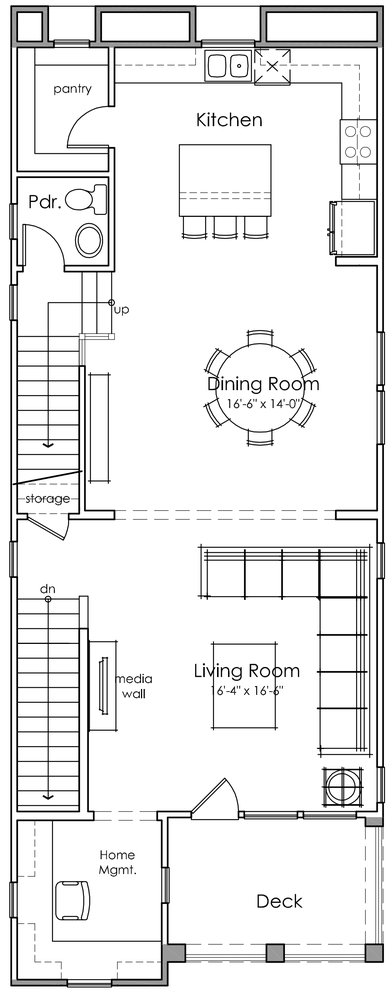
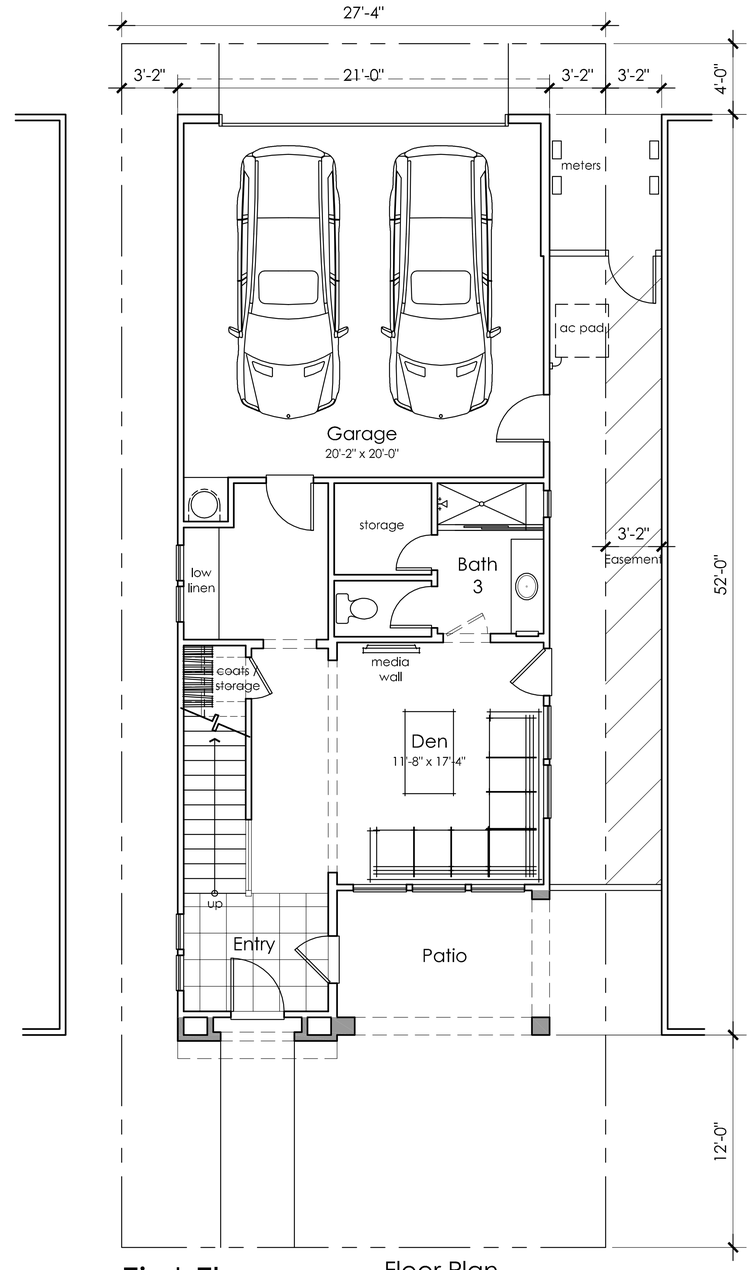


Third Floor
1,001 s.f.



Second Floor
958 s.f.



First Floor
547 s.f.

Floor Plan
3 Bedrooms + Den
3.5 Baths
2,506 s.f.

0 2 4 8

COBBLESTONE

PLAN 4C FLOOR PLAN

A4.1.3

MILPITAS, CALIFORNIA

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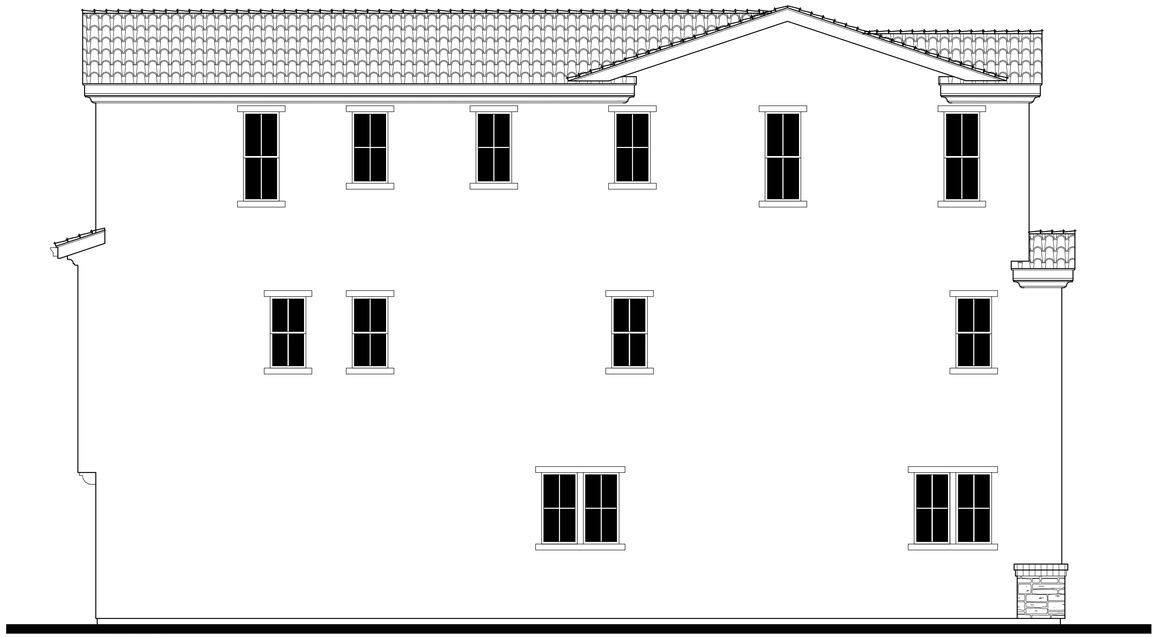
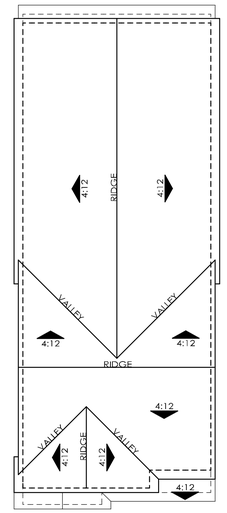
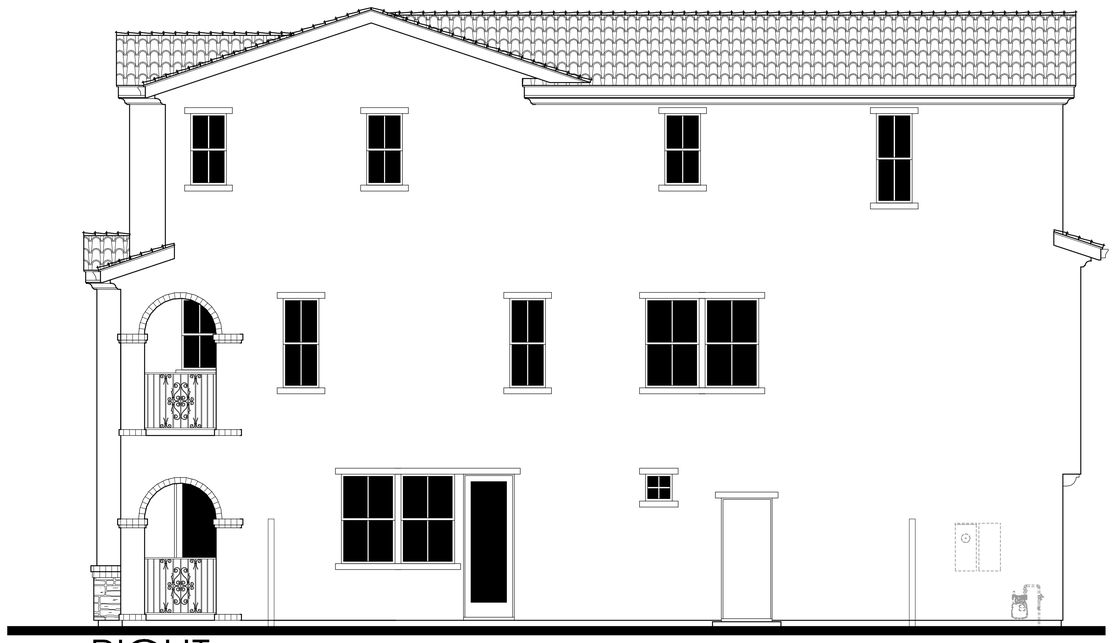


LEFT



ROOF PLAN
OVERHANG : 12"
RAKE : 6"
ROOF PITCH : 4:12 U.N.O



RIGHT

REAR

COBBLESTONE

PLAN 4A - EXTERIOR ELEVATIONS

A4.2

MILPITAS, CALIFORNIA

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02-14-2014

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ktgy.com
510 272 2910

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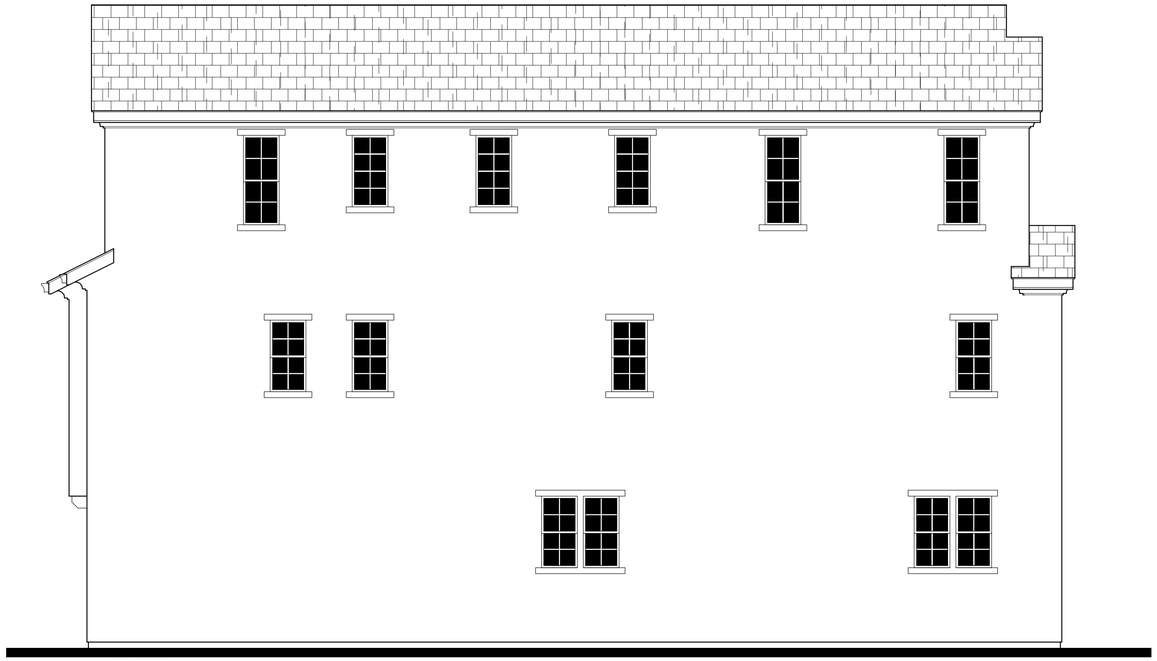

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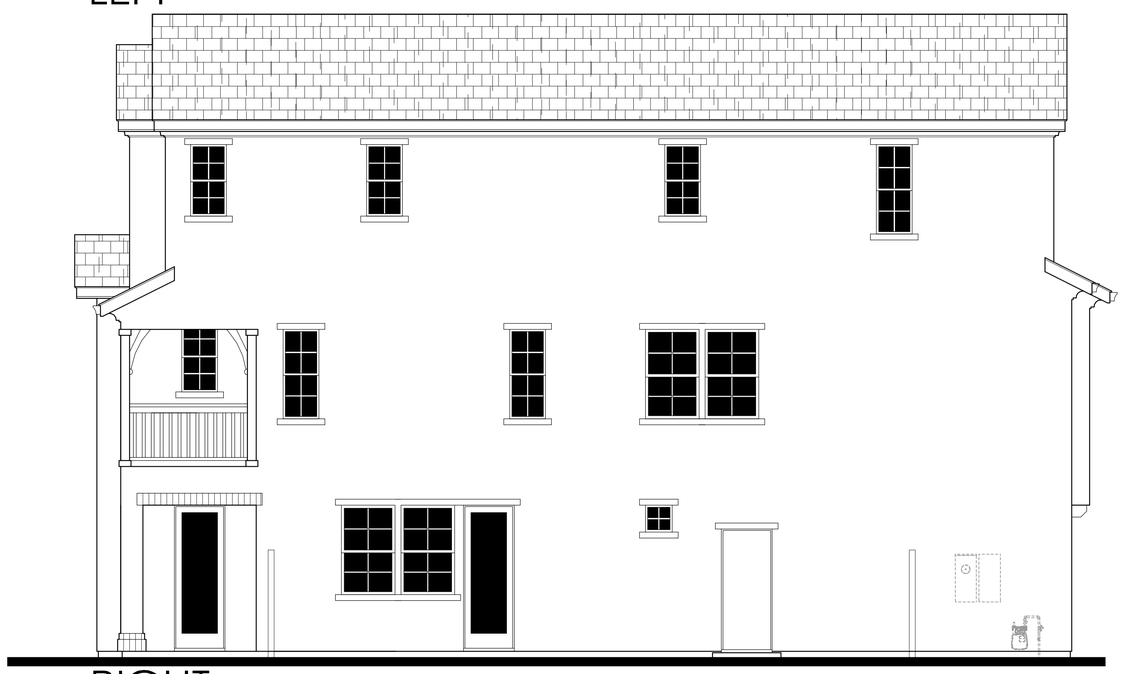

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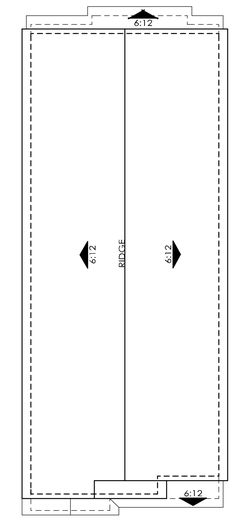

ROOF PLAN
OVERHANG : 12"
RAKE : 6"
ROOF PITCH : 6:12 U.N.O

REAR

COBBLESTONE

PLAN 4B - EXTERIOR ELEVATIONS

A4.3

MILPITAS, CALIFORNIA

KTGY # 2013-0411

02-14-2014

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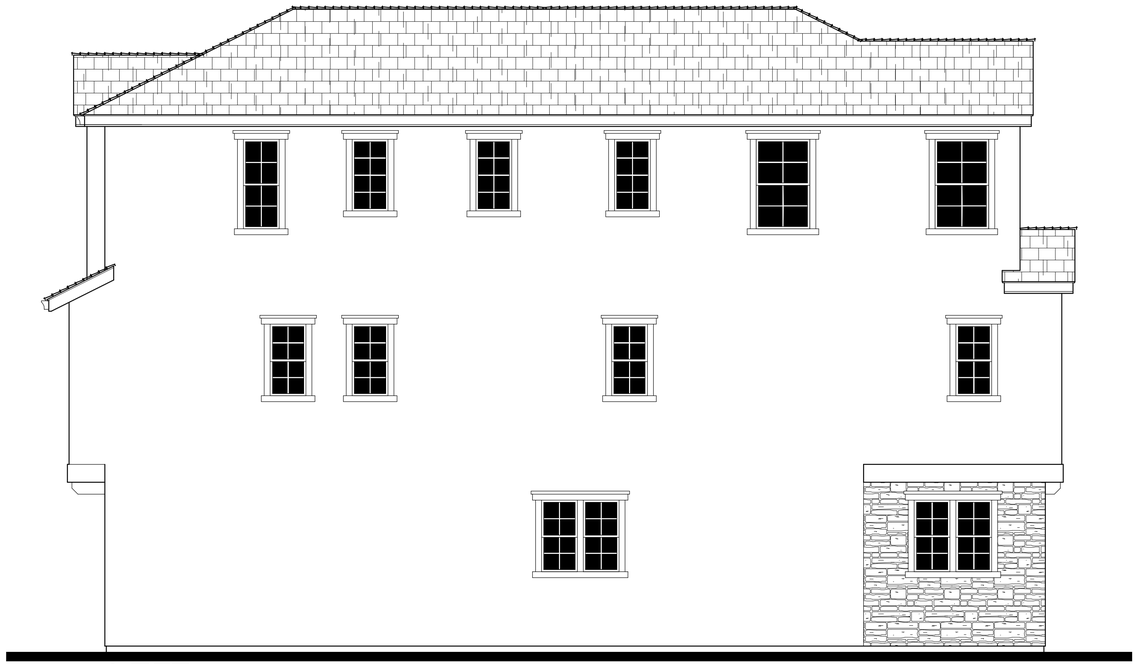

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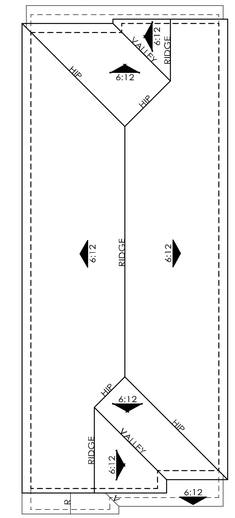
RIGHT



ROOF PLAN
OVERHANG : 12"
RAKE : 6"
ROOF PITCH : 6:12 U.N.O

REAR

COBBLESTONE

PLAN 4C - EXTERIOR ELEVATIONS

A4.4

MILPITAS, CALIFORNIA

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02-14-2014

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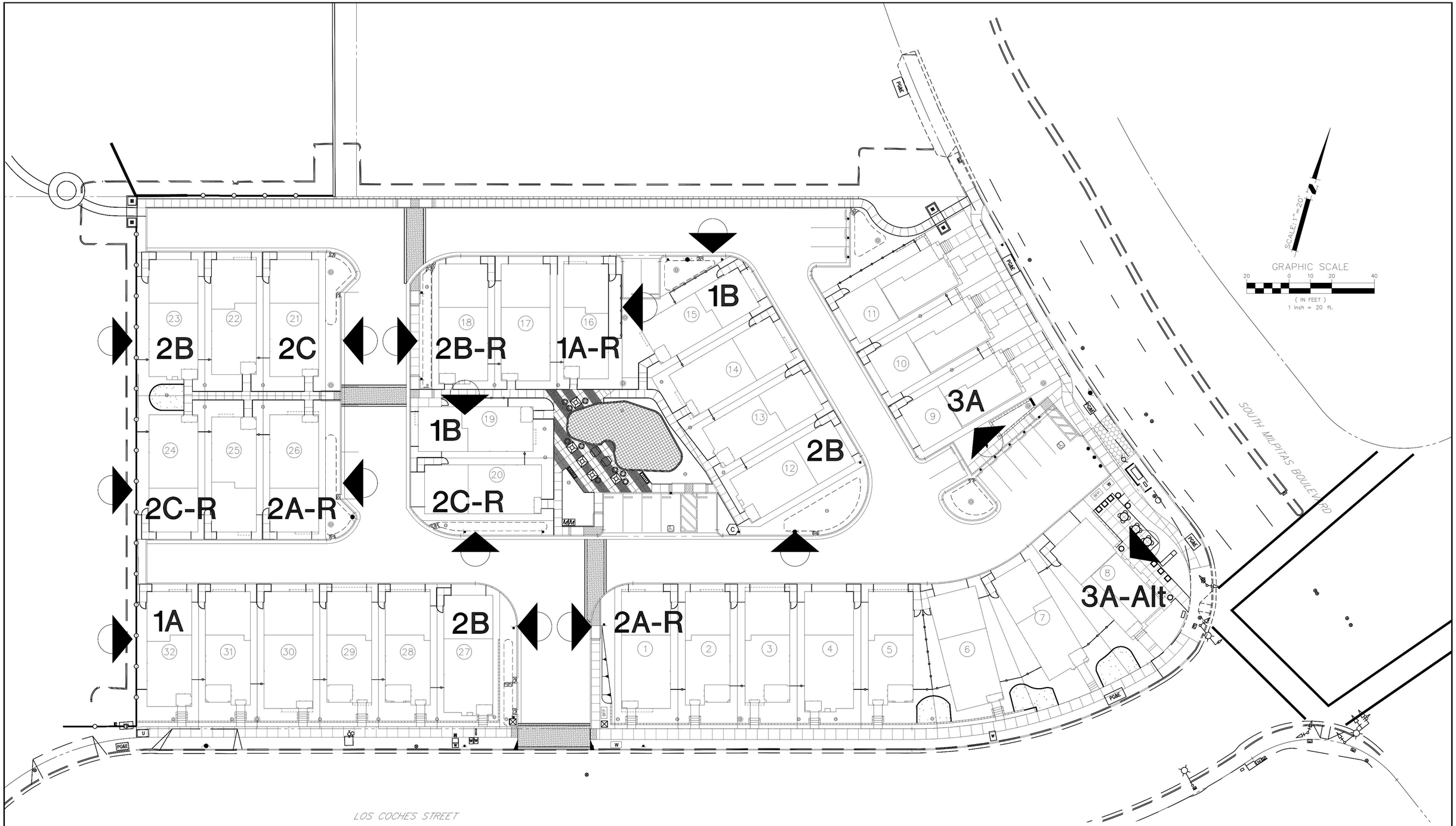

COBBLESTONE

SIDE ENHANCEMENT PLOTTING

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13113BASE_ktgy.dwg Jan 20, 2014

"A" Elevations

	1	2	3	
Roofing: FULL "S" PROFILE	SMC 8402 SANTA CRUZ BLEND	SCC 8830 ALBUQUERQUE BLEND	SCC 8806 TUSCON BLEND	Window Frames Milgard - Tan
Stucco Body	KM 5798-3 LAP DOG	KM 4608-3 EARTHLY DELIGHT	HLS 4240-3 GOULD GOLD	
Fascia / Eaves / All Trim Corbels/ Garage Doors	KM 5793-3 JASMINE HOLLOW	KM 4587-3 SMOKEY TOPAZ	302 MISSION TAN	
Entry Doors / Shutters	KM 4810-3 APPALACIAN FOREST	KM 4847-3 MISSISSIPPI RIVER	KM 5776-5 BANCROFT VILLAGE	
Decorative Metal Iron/ Railings	KMA 87-5 STILETTO	KMA 87-5 STILETTO	KMA 87-5 STILETTO	
Thin Brick Veneer	BELCREST 730	BEECHWOOD	ALAMO	
Stone Veneer	BITTEROOT MTN. LEDGESTONE	SARATOGA RUSTIC LEDGESTONE	MANZANITA CLIFFSTONE	

"B" Elevations

	4	5	6	
Roofing: FLAT SHAKE PROFILE	5687 BROWN GRAY BLEND	SCP 8804 HERSHEY BLEND	5671 VILLAGE BLEND	Window Frames Milgard - White
Stucco Body	216 MALIBU BEIGE	171 SAND PEBBLE	231 SPANISH SAND	
Fascia / Eaves / All Trim Except Where Noted/ Posts/ WD Rails	KM 5788-2 TRANQUIL TAUPE	230 GRAYSTONE	KM 4641-1 BROWN MOUSE	
Gable Siding At 4B/ Wood Details 1B Garage Doors	KMW 24-1 BUD'S SAILS	202 DOESKIN	KM 4645-5 WINE CORK	
Entry Doors / Shutters	171 SAND PEBBLE	KMA 69-5 ROASTED KONA	KMA 85-5 FINGER PRINT	
Decorative Metal Iron/ Railings	KMA 87-5 STILETTO	KMA 87-5 STILETTO	KMA 87-5 STILETTO	
Thin Brick Veneer	MEADOW BLEND	GARNET BLEND	BELCREST 150	

"C" Elevations

	7	8	9	
Roofing: FLAT SLATE PROFILE	4690 PEWTER BRONZE BLEND	SCB 8805 SEATTLE BLEND	4697 SLATE RANGE	Window Frames Milgard - White
Stucco Body	KM 5773-1 RAW SUGAR	KM 4677-2 FLIER LIE	KM 4712-2 WINDING PATH	
Fascia / Eaves / All Trim Posts/ Rails/ Gables Garage Doors	KM 5778-3 SHEEPSKIN GLOVES	KM 4758-1 ITALIAN LACE	KM 4591-1 WHITE LINEN	
Entry Doors / Shutters	KM 4645-5 WINE CORK	KM 5745-2 NATIVE FLORA	KMA 91-5 BLACK ICE	
Thin Brick Veneer	BELCREST 530	ALAMO	BELCREST 360	
Stone Veneer	UMBRIA FIELDLEDGE	CASCADE RUSTIC LEDGESTONE	MONTECITO CLIFFSTONE	

NOTE:
LOTS 1, 5 & 31 TO HAVE MILGARD TAUPE WINDOW FRAMES
(LOT #'S MAY ADJUST FOR A MINIMUM OF 3 HOMES ALONG LOS COCHES)

MANUFACTURERS:
PAINT - KELLY MOORE PAINT
ROOFING - EAGLE ROOFING-NOR CAL
METAL STANDING SEAM ROOF - CUSTOM BILT METAL OR EQUAL
STONE VENEER - ELDORADO STONE VENEER
BRICK VENEER - BELDEN BRICK-THIN BRICK
MORTAR - STANDARD GREY MORTAR

COBBLESTONE

COLOR & MATERIALS BOARD - 01

MILPITAS, CALIFORNIA

KTGY # 2013-0411

02-14-2014

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ktgy.com
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Live / Work Elevations - Lots 8, 9, 10 & 11

	10 @ 3A	10 @ 3A ALT	11	12	
Stucco Body 1	KM 4407-5 VINTAGE COPPER	KM 4407-5 TURTLE BAY	HLS 4277-2 COTSWOLD DILL	KM 4641-1 BROWN MOUSE	Window Frames Milgard-Espresso Storefront-Bronze to Match
Stucco Body 2	232 TOSCANA	232 TOSCANA	KM 5775-3 EMPIRE RANCH	HLS 4255-3 BUTTERSCOTCH SUNDAE	
Stucco Body 3	KM 5781-3 LIGHT TRUFFLE	KM 5781-3 LIGHT TRUFFLE	KM 4594-2 BAY AREA	HLS 4279-2 BRITISH KHAKI	
Trim/ Fascia Boards / Knee Braces/ Cornices Where Noted	HLS 4225-5 BUCKINGHAM PALACE	HLS 4225-5 BUCKINGHAM PALACE	KM 4585-2 LOVER'S HIDEAWAY	HLS 4272-5 FRONTIER SHINGLE	
Entry Doors At Resdemtial Area	HLS 4240-3 GOULD GOD	HLS 4240-3 GOULD GOD	KM 4784-5 WILD GINSENG	KM 4498-5 DANCING DOGS	
Metal Awnings	KM 5826-3 VOLCANIC ROCK	KM 5826-3 VOLCANIC ROCK	KM 5826-3 VOLCANIC ROCK	KM 5826-3 VOLCANIC ROCK	
Metal Fascia/ Standing Seam Roof	ZINC GREY	ZINC GREY	ZINC GREY	ZINC GREY	
Thin Brick Veneer	BELCREST 730	BELCREST 730	BELCREST 730		

MANUFACTURERS:
PAINT - KELLY MOORE PAINT
ROOFING - EAGLE ROOFING-NOR CAL
METAL STANDING SEAM ROOF - CUSTOM BILT METAL OR EQUAL
STONE VENEER - ELDORADO STONE VENEER
BRICK VENEER - BELDEN BRICK-THIN BRICK
MORTAR - STANDARD GREY MORTAR

COBBLESTONE

COLOR & MATERIALS BOARD - 02

MILPITAS, CALIFORNIA

KTGY # 2013-0411

02-14-2014

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6' GOOD NEIGHBOR FENCE AND GATE
STAMPED CONCRETE PAVING
PUBLIC TRAIL
ENTRY PORTAL AT TRAILHEAD
LARGE, SHADE CANOPY STREET TREEES ON S. MILPTIAS BLVD.
LIVE/WORK UNITS (8-11)
S. MILPITAS BLVD
STAMPED CONCRETE PAVING AT ENTRY
COMMERCIAL PLAZA
SITE SIGNAGE
ORCHID RESIDENTIAL
LOS COCHES STREET
FLOWERING STREET TREES ON LOS COCHES TO MATCH ORCHID RESIDENTIAL PROJECT
6' GOOD NEIGHBOR FENCE
STAMPED CONCRETE PAVING AT ENTRY
CENTRAL COMMON SPACE WITH TOT LOT AND SEATING
0 10 20 40

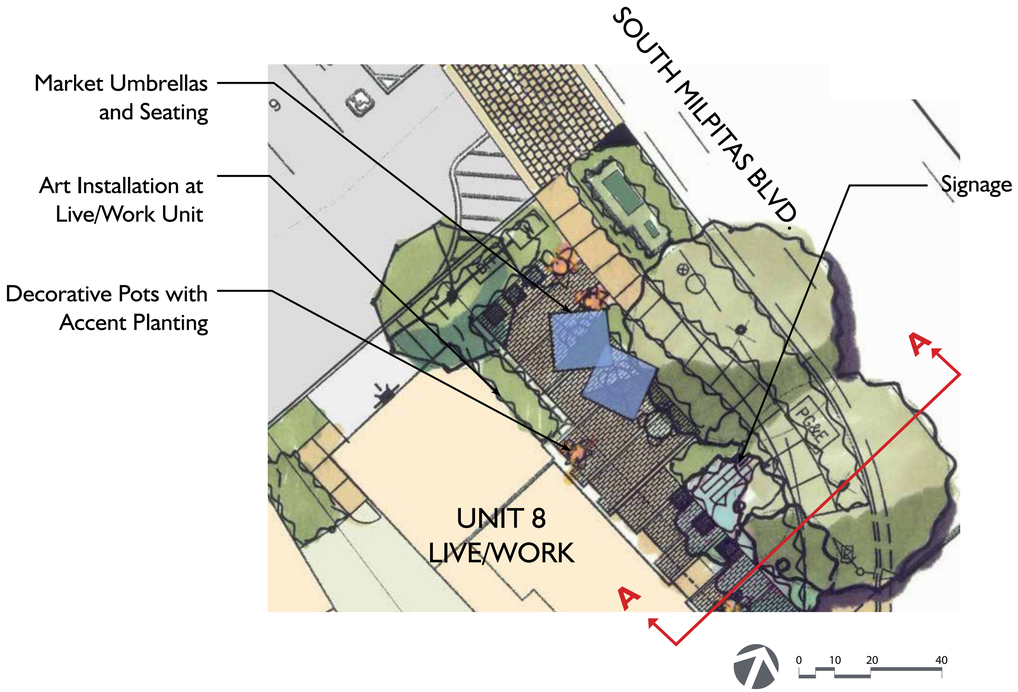
'2A' - TUSCAN | '4B' - ENGLISH | '4C' - TRADITIONAL | '2B' - ENGLISH | '4A' - TUSCAN | '1C' - TRADITIONAL

ELEVATION AT LOS COCHES STREET

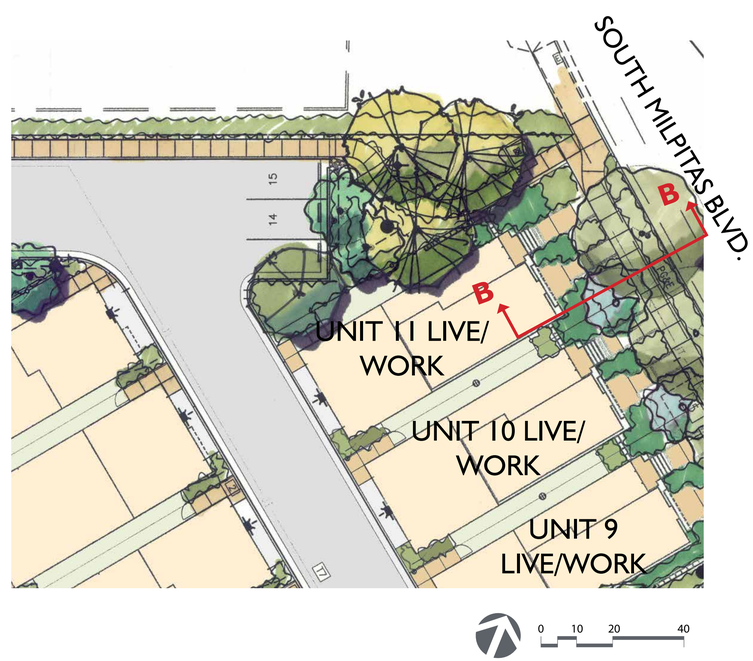
ELEVATION 3A-ALTERNATE ELEVATION 3A ELEVATION 3B ELEVATION 3C

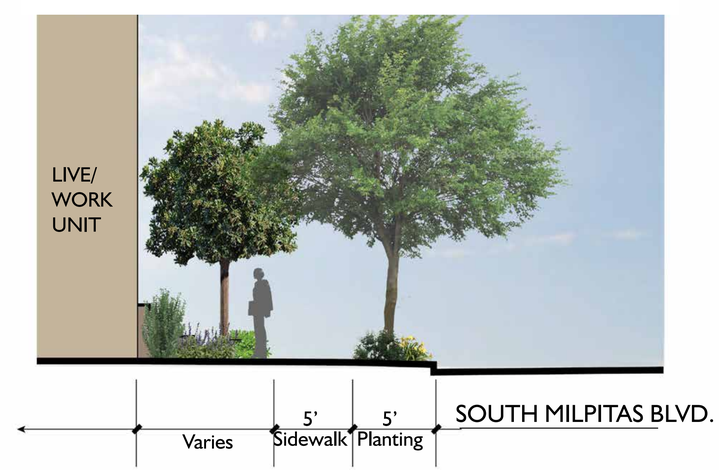
ELEVATION AT SOUTH MILPITAS BOULEVARD

PHOTOSIM AT CORNER OF SOUTH MILPITAS BLVD & LOS COCHES STREET

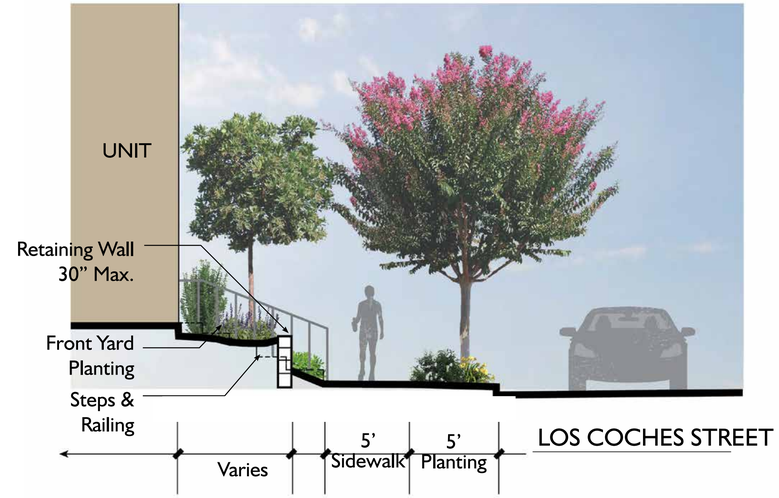


SECTION A-A

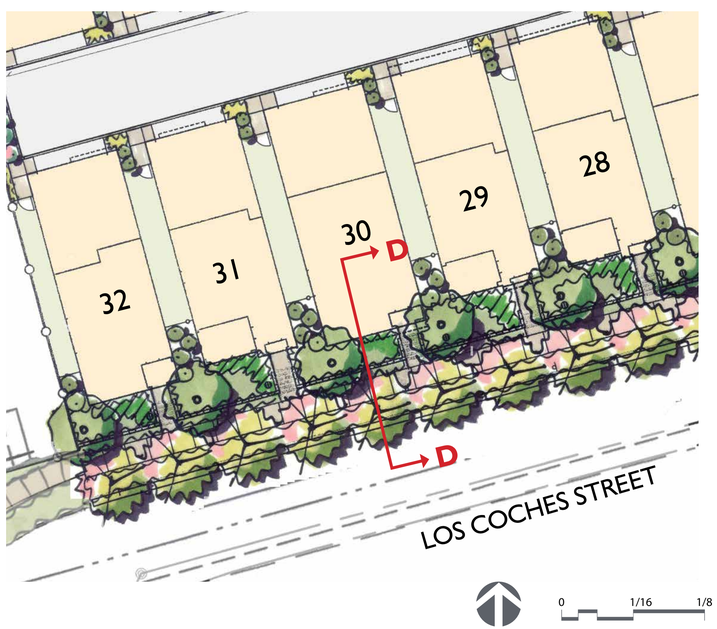


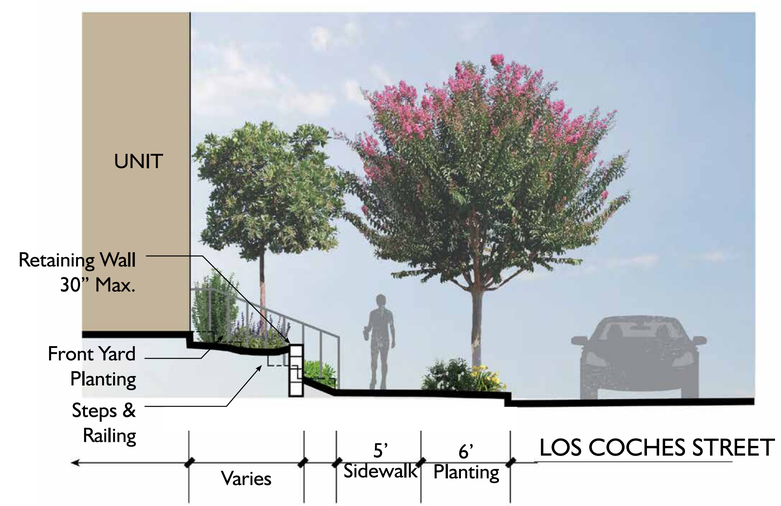


SECTION B-B



SECTION C-C





SECTION D-D

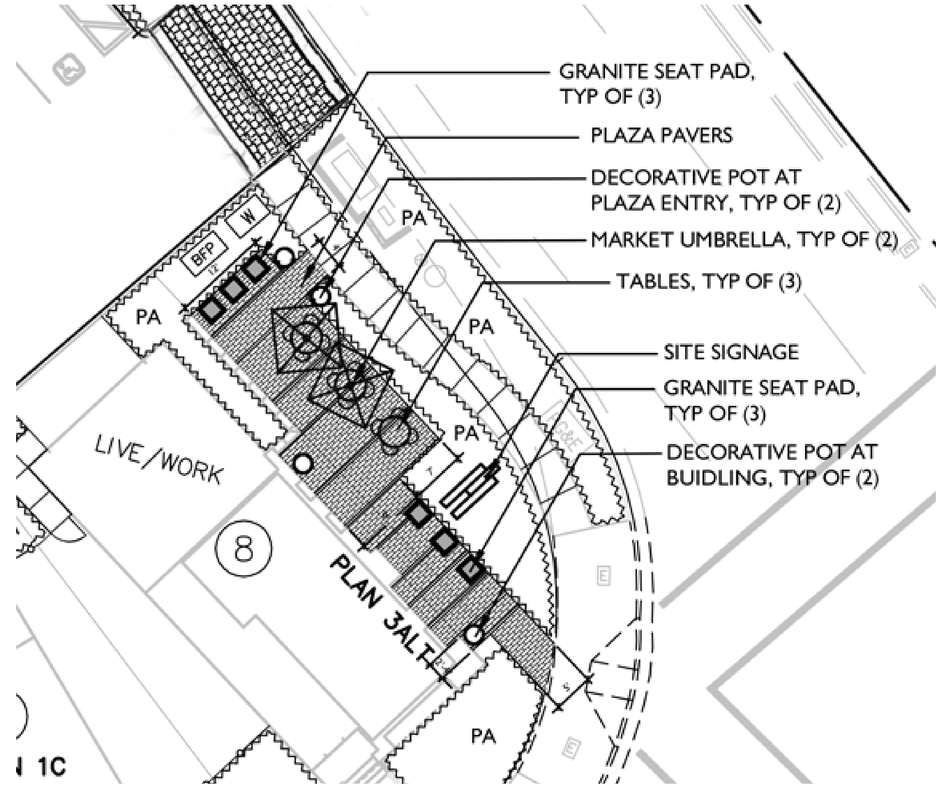
Decorative Pot
MFR: Kornegay Design

Granite Seat Pads

Decorative Pavers
MFR: Basalite

Table
MFR: Landscape Forms

Market Umbrella
MFR: Tuuci



Arbutus 'Marina'

Cercis canadensis

Tristania laurina 'Elegant'

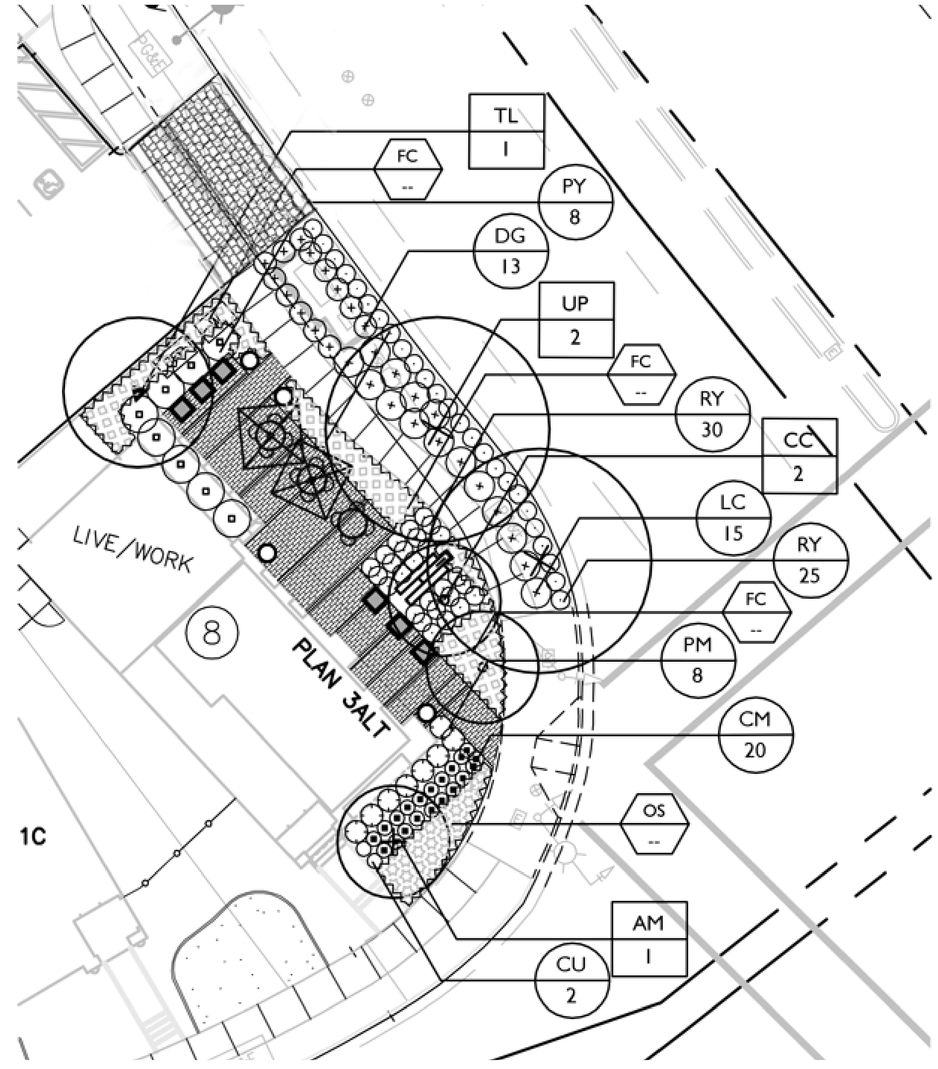
Ulmus parvofilia

Carisaa macrocarpa

Cuphea hyssopifolia

Dietes grandiflora 'Variegata'

Festuca californica

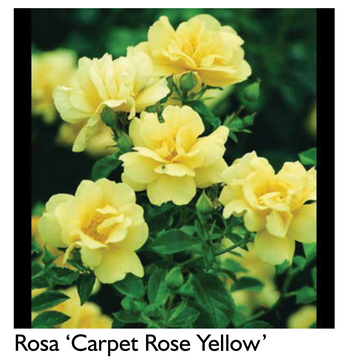


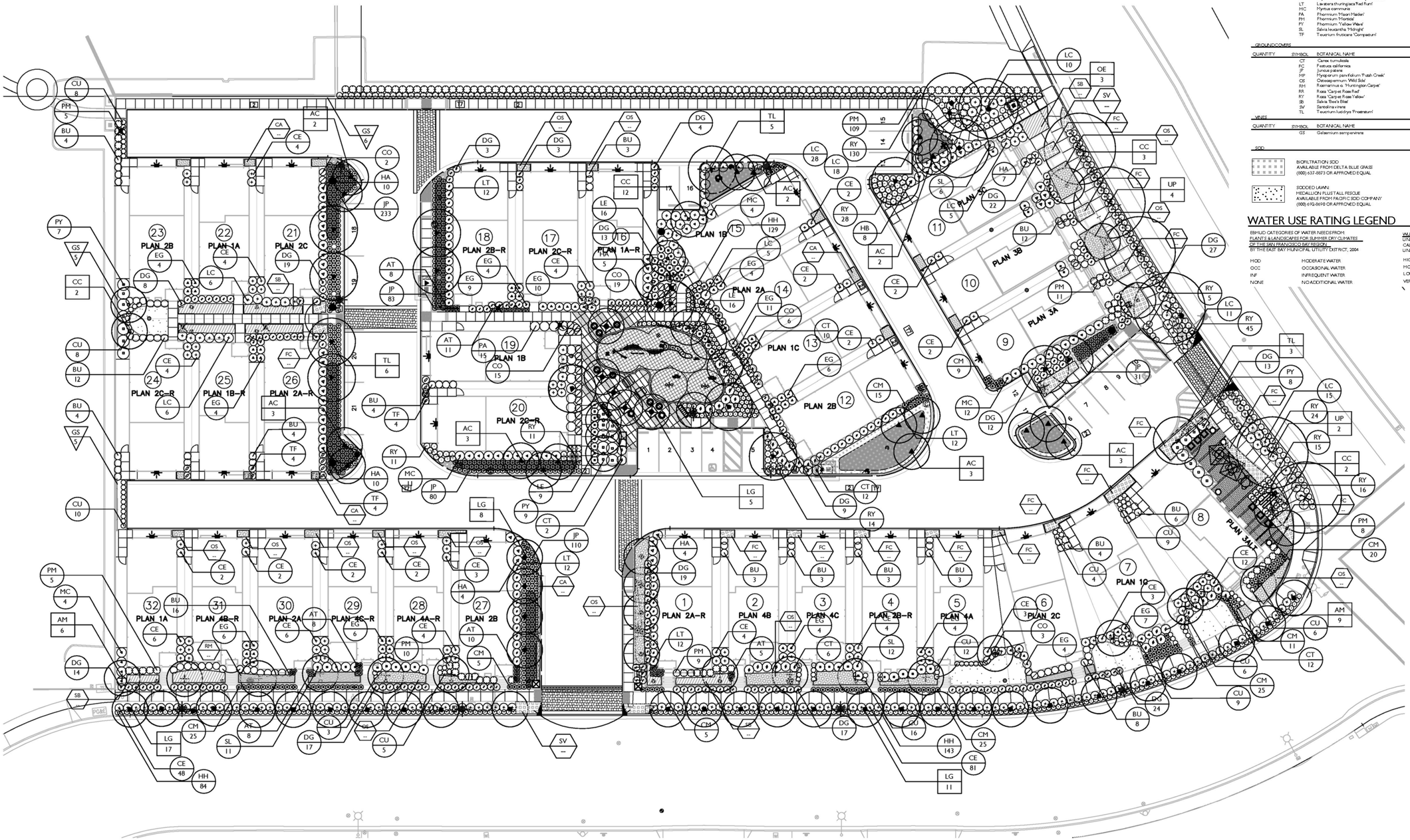
Loropetalum chinense

Osteospermum hybrids

Phorimium 'Morticia'

Phorimium 'Yellow Wave'


Rosa 'Carpet Rose Yellow'



PLANT LIST

TREE

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	O.C. SPACING	WATER REQ.	REF.	CANATIVE/ MED
	AH	Arbutus 'Marina'	NCN	15 Gal.	As Shown	OCC-INF	EBMUD	Mediterranean
	AC	Acer circinatum	Vine Maple	15 Gal.	As Shown	MOD	WUCOLS	CA Native
	CC	Cercis canadensis	Eastern Redbud	15 Gal.	As Shown	MOD	WUCOLS	--
	LG	Lagerstroemia indica 'Natchez' (std.)	Crape Myrtle	24" Box	As Shown	OCC-INF	EBMUD	--
	OE	Olea europa 'Swan Hill'	Fruitless Olive	24" Box	As Shown	OCC-INF	EBMUD	Mediterranean
	TC	Tilia cordata 'Glenleven'	Little-Leaf Linden	24" Box	As Shown	MOD	WUCOLS	--
	TL	Tristania laurina 'Elegant'	Water Gum	24" Box	As Shown	MOD	WUCOLS	--
	UP	Ulmus parvifolia 'True Green'	Chinese Elm	24" Box	As Shown	MOD	WUCOLS	--

SHRUB/ PERENNIALS

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	O.C. SPACING	WATER REQ.	REF.	CANATIVE/ MED
	AT	Achillea tomentosa 'King George'	Woolly Yarrow	1 Gal.	1'-6"	OCC-INF	EBMUD	Mediterranean
	BJ	Buxus sempervirens 'Green Mountain'	Boxwood	1 Gal.	3'-0"	MOD	EBMUD	CA Native
	CE	Carpenteria c. 'Elizabeth'	Bush Anemone	5 Gal.	3'-0"	OCC-INF	EBMUD	--
	CH	Carissa macrocarpa 'Humphrey Variegata'	Natal Plum	5 Gal.	2'-0"	OCC-INF	EBMUD	--
	CT	Chondropetalum tectorum	Cape Rush	1 Gal.	3'-0"	MOD	EBMUD	--
	CO	Coleonema 'Sunset Gold'	Pink Breath of Heaven	1 Gal.	2'-0"	MOD	WUCOLS	--
	CU	Cuphea hyssopifolia 'Caribbean Sunset'	False Heather	1 Gal.	2'-0"	OCC-INF	EBMUD	Mediterranean
	DG	Dietes grandiflora 'Variegata'	Variegated Fortnight Lily	1 Gal.	3'-0"	LOW	WUCOLS	--
	EG	Euonymus fortunei 'Golden Prince'	NCN	1 Gal.	3'-0"	LOW	WUCOLS	--
	HA	Hebe x andersonii	Hebe	1 Gal.	5'-0"	MOD	WUCOLS	--
	HH	Hemerocallis hybrida 'Red'	Evergreen Daylily	1 Gal.	2'-0"	MOD	WUCOLS	--
	LC	Lonicera chinensis 'Razzleberri'	Chinese Fringe flower	5 Gal.	4'-0"	LOW	WUCOLS	--
	LE	Leymus condensatus 'Canyon Prince'	Wild Rye	5 Gal.	3'-0"	LOW	WUCOLS	--
	LT	Lavatera thuringiaca 'Red Rum'	Tree Mallow	5 Gal.	3'-0"	OCC-INF	EBMUD	Mediterranean
	MC	Myrtus communis	Common Myrtle	5 Gal.	4'-0"	OCC-INF	WUCOLS	CA Native
	PA	Phormium 'Maori Maiden'	New Zealand Flax	1 Gal.	3'-0"	LOW	WUCOLS	--
	PM	Phormium 'Maroon'	New Zealand Flax	1 Gal.	3'-0"	LOW	WUCOLS	--
	PY	Phormium 'Yellow Wave'	New Zealand Flax	5 Gal.	5'-0"	LOW	WUCOLS	--
	SL	Salvia leucantha 'Midnight'	Mexican Bush Sage	1 Gal.	4'-0"	OCC	EBMUD	--
	TF	Teucrium fruticans 'Compactum'	Bush Germander	1 Gal.	2'-6"	OCC	EBMUD	Mediterranean

GROUNDCOVERS

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	O.C. SPACING	WATER REQ.	REF.	CANATIVE/ MED
	CT	Carex tumulicola	Berkeley Sedge	1 Gal.	2'-0"	OCC	EBMUD	CA Native
	FC	Festuca californica	California Fescue	1 Gal.	1'-6"	LOW	WUCOLS	CA Native
	JF	Juncus patens	California Gray Rush	1 Gal.	2'-0"	OCC	EBMUD	CA Native
	MP	Hypoporum parvifolium 'Putah Creek'	Hypoporum	1 Gal.	3'-0"	OCC-INF	EBMUD	CA Native
	OE	Osteospermum 'Wild Side'	African Daisy	1 Gal.	3'-0"	OCC-INF	EBMUD	CA Native
	RM	Rosmarinus o. 'Huntington Carpet'	Rosemary	1 Gal.	3'-0"	OCC-INF	EBMUD	CA Native
	RR	Rosa 'Carpet Rose Red'	Red Carpet Rose	1 Gal.	3'-0"	LOW	WUCOLS	--
	RY	Rosa 'Carpet Rose Yellow'	Yellow Carpet Rose	1 Gal.	3'-0"	LOW	WUCOLS	--
	SB	Salvia 'Bee's Bliss'	Sage	1 Gal.	2'-6"	OCC-INF	EBMUD	Mediterranean
	SV	Sanseliria viriea	NCN	1 Gal.	2'-6"	OCC-INF	EBMUD	Mediterranean
	TL	Teucrium fucidrys 'Prostratum'	Germander	1 Gal.	3'-6"	OCC-INF	EBMUD	Mediterranean

VINES

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	O.C. SPACING	WATER REQ.	REF.	CANATIVE/ MED
	GS	Gelsemium sempervirens	Carolina Jessamine	5 GAL.	As Shown	LOW	WUCOLS	--

SOD

BIOFILTRATION SOD
AVAILABLE FROM DELTA BLUE GRASS
(800) 637-8273 OR APPROVED EQUAL

SODDED LAWN
MEDALLION PLUS TALL FESCUE
AVAILABLE FROM PACIFIC SOD COMPANY
(800) 692-8690 OR APPROVED EQUAL

WATER USE RATING LEGEND

EBMUD CATEGORIES OF WATER NEEDS FROM
PLANTS & LANDSCAPES FOR SUMMER DRY CLIMATES
OF THE SAN FRANCISCO BAY REGION
BY THE EAST BAY MUNICIPAL UTILITY DISTRICT, 2004

MOD	MODERATE WATER
OCC	OCCASIONAL WATER
INF	INFREQUENT WATER
NONE	NO ADDITIONAL WATER

WUCOLS III CATEGORIES OF WATER NEEDS FROM
UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION,
CALIFORNIA DEPARTMENT OF WATER RESOURCES,
UNITED STATES BUREAU OF RECLAMATION

HIGH
MODERATE
LOW
VERY LOW

CALIFORNIA NATIVE PLANTS (CNP)
FOR THE GARDEN, 2005 BY
CAROL BONNER & DAVID PROSS,
HART GREEN

MOD	MODERATE WATER
OCC	OCCASIONAL WATER
INF	INFREQUENT WATER

LANDS OF DR HORTON BAY INC
TRACT NO. 10192

LANDS OF ABSMJS

LANDS OF DR HORTON BAY INC
TRACT NO. 10192

SOUTH MILPITAS BOULEVARD

LOS COCHES STREET

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

23 PLAN 2B
22 PLAN 1A
21 PLAN 2C
24 PLAN 2C–R
25 PLAN 1B–R
26 PLAN 2A–R
18 PLAN 2B–R
17 PLAN 2C–R
16 PLAN 1A–R
19 PLAN 1B
20 PLAN 2C–R
15 PLAN 1B
14 PLAN 2A
13 PLAN 1C
12 PLAN 2B
11 PLAN 3C
10 PLAN 3B
9 PLAN 3A
8 PLAN 3ALT
7 PLAN 1C
6 PLAN 2C
5 PLAN 4A
4 PLAN 2B–R
3 PLAN 4C
2 PLAN 4B
1 PLAN 2A–R
27 PLAN 2B
28 PLAN 4A–R
29 PLAN 4C–R
30 PLAN 2A
31 PLAN 4B–R
32 PLAN 1A

NO.	DATE	REVISIONS	BY

Civil Engineering Associates
Civil Engineers • Planners • Surveyors
224 Airport Parkway
Suite 525
San Jose, CA 95110
T: (408) 453-1036

PREPARED FOR:

TRI Pointe HOMES
2010 Crow Canyon Place, Suite 380
San Ramon, CA 94583

SITE PLAN
LOS COCHES STREET

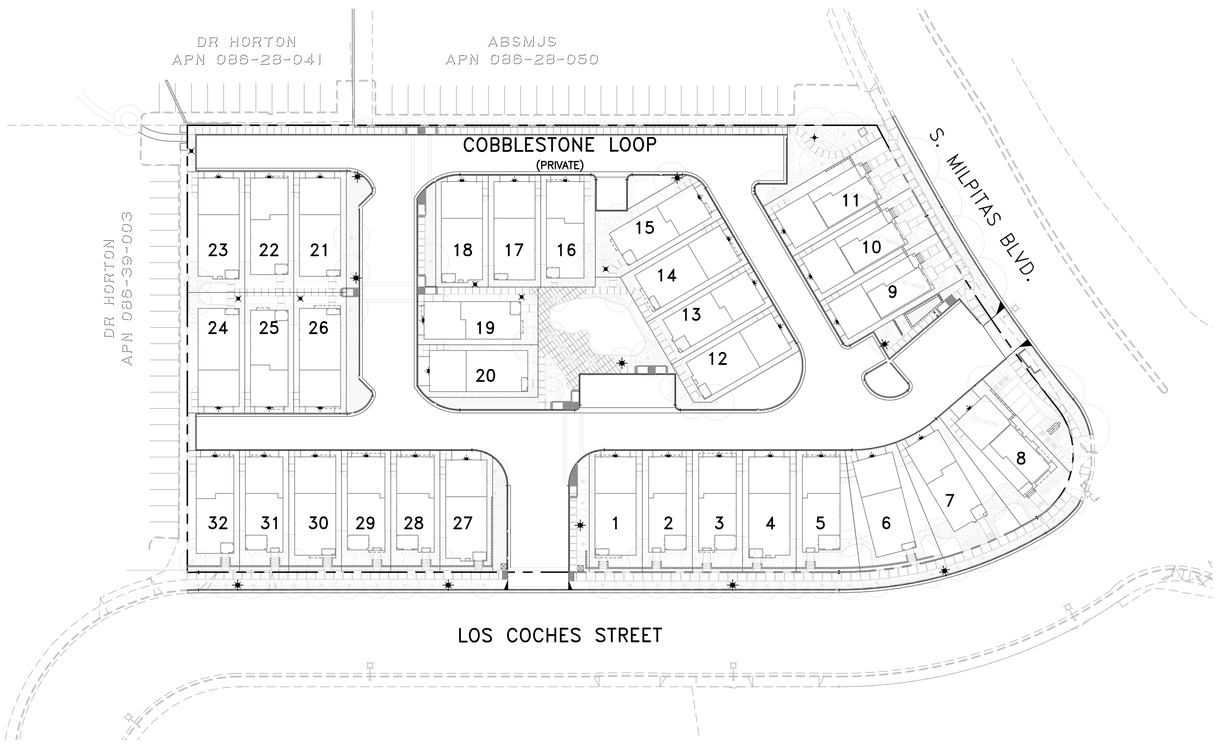
MILPITAS CALIFORNIA

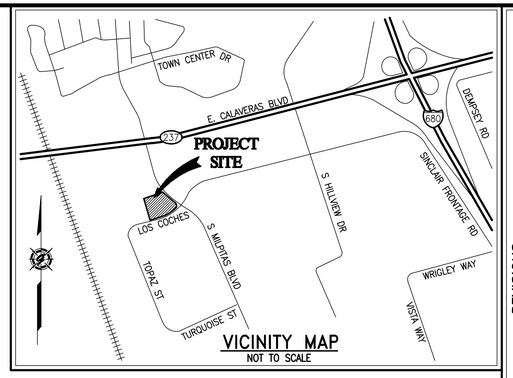
DATE	FEB. 14, 14
SCALE	1"=20'
DESIGNED	J.C.
DRAWN	C.H.
JOB NO.	13–113

SHEET 1 OF SHEETS

D:\SITE\SITE.dwg Feb 12, 2014

TRI-POINTE HOMES
COBBLESTONE
MILPITAS, CALIFORNIA





VICINITY MAP
NOT TO SCALE

INDEX MAP

40 0 20 40 80
(IN FEET)
1 INCH = 40 FT.

REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH COMPOSITE TITLE SHEET

TRI-POINTE HOMES
COBBLESTONE

MILPITAS CALIFORNIA

PROJECT MANAGER: B. FULLINGTON
DRAWN BY: BDF/SAS
CHECKED BY: BDF
SCALE: 1"=40'
JOB NUMBER: 13-130
DATE LAST MODIFIED: 02-14-14
SHEET JT1 OF 4 SHEETS

PROJECT TEAM CONTACTS

COMPANY:	CONTACT:	PHONE:
TRI-POINTE HOMES	BILL SADLER	925-804-2230
CIVIL ENGINEERING ASSOC.	JOHN GAYLORD	408-453-1066
PG&E – SAN JOSE	TIM CUSSEAUX	408-299-9523
AT&T – MILPITAS	DAN LAGUNA	408-635-8829
CABLECOM, LLC	VLADIMIR PLAKHTI	408-988-8257
KTGY GROUP, INC.	JILL WILLIAMS	510-463-2018
GATES & ASSOCIATES	LINDA GATES	925-736-8176
GIACALONE DESIGN SERVICES, INC.	BRETT FULLINGTON	925-467-1740

PG&E PM NO.

ELECTRIC:
RULE 15: 31042054
RULE 16:
RULE 20:
RELOC:

GAS:
RULE 15: 31042548
RELOC:

LATEST FILES RECEIVED

DESCRIPTION:	BY:	DATE:	STATUS:
GAS DESIGN	GDSI	01-31-14	F
ELECTRIC DESIGN	GDSI	02-11-14	F
TELEPHONE LAYOUT	AT&T	11-22-14	INTENT REPLY
CATV LAYOUT	CABLECOM	02-10-14	REVISED INTENT
STREET LIGHT PLANS – PUBLIC			
STREET LIGHT PLANS – PRIVATE	GDSI		
IMPROVEMENT PLANS (ELECTRONIC FILE)	CIVIL ENG. ASSOC.	02-11-14	

A=Approved • ANS=Approved Not Signed • NA=Not Approved • F=First Submittal • SS=Second Submittal

PROJECT DESCRIPTION & SCOPE

- NEW SERVICE TO 28 SINGLE FAMILY DWELLINGS AND 4 WORK/LIVE UNITS (G,E,T,C)
- PRIVATE LIGHTING
- METERED PEDESTAL FOR IRRIGATION AND SITE LIGHTING 100AMP, 120/240V, 1ø

SHEET INDEX

SHEET	DESCRIPTION
JT1	JOINT TRENCH COMPOSITE TITLE SHEET
JT2	JOINT TRENCH GENERAL NOTES & DETAILS
JT3	JOINT TRENCH SECTIONS & DETAILS
JT4	JOINT TRENCH COMPOSITE PLAN
SL1–SL2	STREET LIGHTING TITLE SHEET & DETAILS
SL3	STREET LIGHTING SITE PLAN
G1–G2	PG&E GAS CONSTRUCTION DRAWINGS
E1	PG&E ELECTRIC CONSTRUCTION SKETCH

LABOR & CONSTRUCTION RESPONSIBILITY

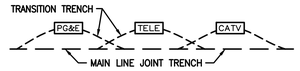
	PG&E ELECTRIC / PG&E GAS / TELEPHONE / CATV	CONTRACTOR
1. TRENCHING: EXCAVATE, BACKFILL AND COMPACT	○○○○	●
2. GAS MATERIAL: SUPPLY	○○○○	●
INSTALL	○○○○	●
3. ELECTRIC CABLE: SUPPLY	○○○○	●
INSTALL	○○○○	●
4. ELECTRIC CONDUIT: SUPPLY	○○○○	●
INSTALL	○○○○	●
5. ELECTRIC SPLICE BOXES: EXCAVATE	○○○○	●
SUPPLY	○○○○	●
INSTALL	○○○○	●
6. ELECTRIC TFMR. ENCLS.: EXCAVATE	○○○○	●
SUPPLY	○○○○	●
INSTALL	○○○○	●
7. ELECTRIC EQUIP. ENCLS.: EXCAVATE	○○○○	●
SUPPLY	○○○○	●
INSTALL	○○○○	●
8. ELECTRIC TRANS. PADS: GRADE	○○○○	○
SUPPLY	○○○○	○
INSTALL	○○○○	○
9. ELECTRIC SWITCH PADS: GRADE	○○○○	○
SUPPLY	○○○○	○
INSTALL	○○○○	○
10. TELEPHONE CONDUIT: SUPPLY	○○○○	●
INSTALL	○○○○	●
11. TELEPHONE CABLE: SUPPLY	○●	○
INSTALL	○●	○
12. TELEPHONE SPLICE BOXES: EXCAVATE	○○○○	●
SUPPLY	○○○○	●
INSTALL	○○○○	●
13. TELEPHONE INTER PADS: GRADE	○○○○	○
SUPPLY	○○○○	○
INSTALL	○○○○	○
14. CATV CONDUITS: SUPPLY	○○●○	○
INSTALL	○○●○	○
15. CATV SPLICE BOXES: EXCAVATE	○○○○	●
SUPPLY	○○●○	○
INSTALL	○○●○	○
16. STREET LIGHTING: EXCAVATE	○○○○	●
SUPPLY	○○○○	●
INSTALL	○○○○	●

THE ● ABOVE DESIGNATES THE WORK TO BE PERFORMED BY THE CONTRACTOR AND EACH UTILITY COMPANY.

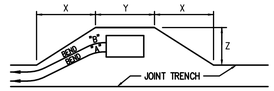
STREET LIGHTING NOTES

1. STREET LIGHT LOCATIONS & CIRCUITRY WERE PROVIDED BY GIACALONE DESIGN SERVICES, INC.
2. STREET LIGHT CONDUIT INSTALLED IN SEPARATE TRENCH. REFER TO J.T. COMPOSITE PLANS FOR LOCATION OF STREET LIGHT TRENCH.

JOINT TRENCH TRANSITION



1. CONTRACTOR TO EXCAVATE TRANSITIONS FROM MAIN-LINE TRENCH TO VAULTS AS REQUIRED BY EACH UTILITY.
2. TRANSITIONS NOT SHOWN ON COMPOSITE DRAWING FOR CLARITY.
3. CONTRACTOR TO INCLUDE COST OF TRANSITIONS IN VAULT EXCAVATION COST.



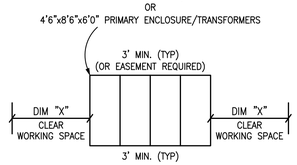
PRIMARY BOX SIZE	DISTANCE "X"	WHEN CONDUIT ENTERS BOX ● "A" "Y"	"Z"
3'x5'	24'	7'	5'
4'6"x8'6"	24'	11'	7'

PRIMARY BOX SIZE	DISTANCE "X"	WHEN CONDUIT ENTERS BOX ● "B" "Y"	"Z"
3'x5'	32'	7'	5'
4'6"x8'6"	32'	11'	7'

TYPICAL PRIMARY BOX EXCAVATION
USING A CONDUIT SYSTEM

NOT TO SCALE

PG&E PRIMARY ENCLOSURE CLEARANCES



DIM "X"
3' MIN. 3'0"x5'0" ENCLOSURES
5' MIN. 4'6"x8'6"x6'0" ENCLOSURES

NOT TO SCALE

JOINT TRENCH CONTRACTORS NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO HAVE ALL INSTALLATIONS INSPECTED AND APPROVED BY THE RESPECTIVE UTILITY COMPANY, MUNICIPALITY, OR SOILS ENGINEER PRIOR TO ANY BACK FILLING. (48 HOUR NOTICE)
2. CONTRACTOR WILL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS. CONTRACTOR SHALL BE FAMILIAR WITH O.S.H.A. INDUSTRIAL ORDERS AND SHALL CONDUCT HIS WORK ACCORDINGLY. WHEN WORKING AROUND ENERGIZED EQUIPMENT, THE UTILITY OWNER SHALL BE NOTIFIED TO SUPPLY THE APPROPRIATE MAN POWER AND SAFETY PRECAUTIONS AS NEEDED THE CONTRACTOR IS RESPONSIBLE FOR PUBLIC SAFETY AND TRAFFIC CONTROL MEASURES.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POINTS OF ACCESS THAT ARE AGREEABLE TO ADJACENT LAND USES AND TENANTS AT ALL TIMES.
4. **THE CONTRACTOR TO BE AWARE THAT THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE BASED UPON RECORD DATA MADE AVAILABLE BY PG&E, TELEPHONE, CATV, IMPROVEMENT PLANS AND CITY RECORDS. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE INFORMATION SHOWN. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE PRECISE LOCATION OF ALL UNDERGROUND FACILITIES. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) (811) AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO START OF WORK.**
5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF CONSTRUCTION WITH THE RESPECTIVE UTILITY AGENCIES, ALLOWING 48 HOURS PRIOR TO THE NEED FOR INSTALLATIONS.
6. THE CONTRACTOR SHALL NOTIFY DEVELOPER 48 HOURS PRIOR TO THE NEED FOR SURVEY STAKING. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION OF ALL CONSTRUCTION STAKING SET BY THE DEVELOPERS SURVEYORS AND WILL BE BACK CHARGED FOR ANY RE-STAKING THAT IS REQUIRED.
7. THE CONTRACTOR IS RESPONSIBLE TO PROTECT IN PLACE ALL EXISTING FACILITIES. EXCAVATION MAY BE REQUIRED OVER, UNDER OR ADJACENT TO EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO LOCATE, EXPOSE AND PROTECT ALL EXISTING FACILITIES. THE CONTRACTOR IS RESPONSIBLE TO BID THE WORK BASED ON THE REVIEW OF THE IMPROVEMENT PLANS IN CONJUNCTION WITH THESE PLANS.
8. **IT'S THE CONTRACTOR/DEVELOPER RESPONSIBILITY TO MAKE SURE THAT THE MOST CURRENT SET OF PLANS ARE BEING USED. CALL GIACALONE DESIGN SERVICES, INC. (925) 467-1740 TO VERIFY.**
9. THE CONTRACTOR SHALL COORDINATE ALL TIE-INS WITH UTILITY COMPANIES AS REQUIRED.
10. THE CONTRACTOR SHALL PROVIDE TIE-IN HOLE TO 12" BELOW EXISTING GAS MAIN FOR PG&E GAS TIE-IN(S) UNLESS OTHERWISE NOTED ON PLANS.
11. JOINT TRENCH FACILITIES SHALL MAINTAIN A MINIMUM OF 3' HORIZONTAL CLEARANCE FROM EDGE OF JOINT TRENCH TO EDGE OF "WET" UTILITIES WITH A MINIMUM 6" VERTICAL CLEARANCE WHEN CROSSING (U.O.N), THE CONTRACTOR SHALL REFER TO PG&E UO STANDARD S5453 FOR ADDITIONAL INFORMATION.
12. TRANSITION TRENCH FOR VAULTS/PEDESTALS NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL PROVIDE INCIDENTAL TRENCHING AS REQUIRED FOR CONDUIT/CABLE ROUTING INTO VAULTS/PEDESTALS. CONTRACTOR SHALL INCLUDE COST OF TRANSITION TRENCH IN VAULT/PEDESTAL EXCAVATION COST.
13. THE CONTRACTOR SHALL OFFSET VAULTS/PEDESTALS AS REQUIRED FOR CONDUIT/CABLE ROUTING.
14. THE CONTRACTOR SHALL FIELD ADJUST VAULTS/PEDESTALS AS REQUIRED TO AVOID CONFLICTS WITH DRIVEWAYS, SIDEWALKS, HANDICAP RAMPS, FIRE HYDRANTS, WATER & SEWER LATERALS, ETC.
15. SERVICE LOCATIONS SHOWN ARE APPROXIMATE, THE CONTRACTOR SHALL FIELD VERIFY THEIR EXACT LOCATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL FIELD ADJUST SERVICE STUB AND CROSSING LOCATIONS AS REQUIRED TO AVOID CONFLICTS WITH OTHER FACILITIES.
16. SERVICE COMPLETION TRENCHES SHALL BE INSTALLED AFTER CURB AND GUTTER, UNLESS DIRECTED OTHERWISE. THE CONTRACTOR SHALL COORDINATE ADDITIONAL MOVE-INS AS NECESSARY TO COMPLETE THE SERVICES TO EACH INDIVIDUAL UNIT WITH THE DEVELOPER, UTILITY COMPANIES & ALL INVOLVED AGENCIES. THE COST OF THESE MOVE-INS SHALL BE INCLUDED IN THE CONTRACTORS UNIT BID PRICE FOR TRENCHING.
17. EDGE OF SPLICE BOXES & PEDESTALS SHALL BE 5' FROM EDGE OF F.H. AND 3' FROM STREET LIGHT (TYP.) CONTRACTOR TO AVOID DISTURBING F.H. THRUST BLOCK.
18. THE CONTRACTOR SHALL PERFORM ALL TRENCHING, EXCAVATING, BACKFILLING, INSTALLATION AND ALL OTHER WORK AS SHOWN OR NOTED ON THESE PLANS & SPECIFICATIONS.
19. ALL TRENCHES, BOXES AND CONDUIT LAYOUTS IN THIS PLAN SET ARE SHOWN SCHEMATICALLY. THE CONTRACTOR SHALL INSTALL ALL UTILITY VAULTS, PADS, CONDUITS, ETC. IN PROPER RELATION TO FINAL GRADE. VERIFY ALL SUBSTRUCTURE EXCAVATION DIMENSIONS WITH SUPPLIERS PRIOR TO EXCAVATING.
20. ALL JOINT TRENCH CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD PRACTICES AND SPECIFICATIONS OF EACH PARTICIPATING UTILITY COMPANY AND CONFORM TO THE CURRENTLY ADOPTED EDITIONS OF THE STANDARD PLANS AND SPECIFICATIONS OF THE CITY OR COUNTY INVOLVED.
21. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING WORK.
22. THE BOTTOM OF ALL TRENCHES SHALL BE CLEARED OF ROCKS AND ALL OTHER HARD SURFACE MATERIAL. A SAND BEDDING OF AT LEAST 2" (TWO INCHES) SHALL BE PROVIDED ON WHICH THE UTILITIES WILL BE PLACED. (MAY NOT BE REQUIRED IN NATIVE SAND AREAS, CONSULT WITH LOCAL AGENCIES).
23. THE CONTRACTOR SHALL NOTIFY GIACALONE DESIGN SERVICES, INC. OF ANY DIFFERENCES IN THE ACTUAL LOCATION OF EXISTING FACILITIES FROM THAT SHOWN IN THESE PLANS, OR ANY OTHER CONFLICTS WITH THE DESIGN, PRIOR TO CONTINUING WORK IN THAT AREA. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT FIRST NOTIFYING GIACALONE DESIGN SERVICES, INC.
24. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR ANY DIFFERENCES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PRIOR TO SUBMITTING BID.
25. THE CONTRACTOR SHALL COORDINATE ALL CONNECTIONS BETWEEN EXISTING AND PROPOSED FACILITIES WITH THE RESPECTIVE UTILITY INSPECTOR. ALL EXISTING CONDUIT TO BE USED SHALL BE MANDREL TESTED AND PROVED PRIOR TO MAKING CONNECTION AS DIRECTED BY THE GOVERNING INSPECTOR. UTILITY COMPANIES SHALL MAKE ALL "HOT" TIE-INS AND CONNECTIONS. THE CONTRACTOR SHALL NOT ENTER OR WORK ON ANY ENERGIZED FACILITIES, UNLESS DIRECTED BY THE UTILITY INSPECTOR. THIS COST SHALL BE INCLUDED IN CONTRACTOR BID.
26. THE CONTRACTOR IS REQUIRED TO EXCAVATE "BELL HOLES" AT THE TIE-IN LOCATIONS AS REQUIRED BY THE UTILITY COMPANIES.
27. TRENCHING AND/OR SUBSTRUCTURE EXCAVATIONS MAY TAKE PLACE OVER, UNDER, OR ADJACENT TO OTHER UNDERGROUND FACILITIES (STORM, SEWER, WATER, ETC.). THE CONTRACTOR IS RESPONSIBLE TO LOCATE, EXPOSE AND PROTECT IN PLACE ALL EXISTING FACILITIES. THIS WORK SHALL NOT BE CONSIDERED AS EXTRA WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW ALL IMPROVEMENT AND GRADING PLANS, IN CONJUNCTION WITH THESE PLANS, AND BID HIS WORK ACCORDINGLY.
28. THE RESPECTIVE UTILITY INSPECTOR WILL DETERMINE IN THE FIELD IF RETAINING WALLS WILL BE NEEDED TO MEET THE MINIMUM CLEARANCE REQUIREMENTS. REFER TO THE PG&E "GREEN BOOK" STANDARD DRAWING 051122 FOR APPROVED RETAINING WALL REQUIREMENTS. RETAINING WALLS ARE THE DEVELOPERS RESPONSIBILITY AND ARE NOT INCLUDED IN THIS CONTRACT.
29. THE CONTRACTOR SHALL "RED-LINE" (1) ONE SET OF THE JOINT TRENCH COMPOSITE PLANS AND (2) TWO SETS OF THE GAS AND ELECTRIC PLANS WITH "AS-BUILT" INFORMATION AND GIVE TO THE DEVELOPER PRIOR TO SPLICING OF THE PRIMARY ELECTRIC SYSTEM.
30. CONTRACTOR TO VERIFY RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.
31. SUBSTRUCTURES MUST HAVE 12" MINIMUM CLEARANCE FROM JOINT TRENCH.

GENERAL NOTES

1. PG&E'S UO STANDARD S5453 TO BE UTILIZED FOR ALL TRENCHING, BACK-FILLING, AND INSTALLATION WORK.
2. SHOULD A DISPUTE OR DISAGREEMENT OVER ANY INSTALLATION, DESIGN, PLAN, OR DRAWING OCCUR THE SPECIFICATIONS AND REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANY AND THEIR INSPECTOR SHALL TAKE PRECEDENCE.
3. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE QUALITY, QUANTITY OR TIMING OF WORK BY CONTRACTOR, UTILITY COMPANY CONSTRUCTION CREWS OR OTHER SUBCONTRACTORS TO THE DEVELOPER.
4. THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED TO BE COMPLEMENTARY TO ONE ANOTHER. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS SHALL BE CONSIDERED OF LIKE EFFECT AS IF APPEARING IN BOTH, CONTACT GIACALONE DESIGN SERVICES, INC. PRIOR TO START OF WORK OR SUBMITTAL OF BID IF A DISCREPANCY IS FOUND.
5. CONSULT PARTICIPATING UTILITIES, SOILS ENGINEER, AND THE CITY FOR APPROVED BACK FILL MATERIAL. COMPACTION TO MEET LOCAL AGENCIES REQUIREMENTS.
6. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE PROJECT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE PROJECT AND SITE PRIOR TO SUBMITTING HIS BID.
7. ALL LENGTHS SHOWN ON THESE PLANS ARE ESTIMATES. FINAL QUANTITIES SHALL BE BASED ON WHAT WILL BE NEEDED TO COMPLETE THIS PROJECT. DUE TO CHANGES, ADDITIONS, DELETIONS OR OMISSIONS FINAL QUANTITIES MAY VARY.
8. SHOULD A CONFLICT ARISE BETWEEN FACILITIES SHOWN ON THESE PLANS AND IMPROVEMENT PLANS FOR THIS PROJECT, THE IMPROVEMENT PLANS SHALL TAKE PRECEDENCE. CONTACT GIACALONE DESIGN SERVICES, INC. (925) 467-1740 IF A PROBLEM SHOULD OCCUR.
9. ALL TRANSFORMERS AND TRANSFORMER PADS ARE TO BE INSTALLED PER PG&E SPECIFICATIONS. PROTECTIVE BOLLARDS ARE TO BE PLACED WHERE NEEDED AS DIRECTED BY UTILITY INSPECTOR.
10. THE MINIMUM TRENCH WIDTHS AND DEPTHS SHOWN ARE BASED ON THE MINIMUM UTILITY COMPANY REQUIREMENTS FOR WIDTH, DEPTH AND SEPARATIONS. THE CONTRACTOR SHALL EXCAVATE FOR ADDITIONAL WIDTH OR DEPTH WHERE THE PROPOSED JOINT TRENCH FACILITIES APPROACH AND CROSS OTHER EXISTING UTILITY LINES (STORM DRAIN, SEWER, WATER, ETC.) TO ADEQUATELY CLEAR THESE FACILITIES. THE JOINT TRENCH FACILITIES MAY BE PLACED EITHER BELOW OR ABOVE THE EXISTING UTILITY LINES WITH AT LEAST 6" FREE CLEARANCE BETWEEN THE EXISTING UTILITY LINES BEING CROSSED, OR SUCH GREATER MINIMUM DISTANCE AS MAY BE REQUIRED BY THE LOCAL GOVERNMENTAL AGENCY OR OTHER PUBLIC REGULATORY AGENCY. (SEE MINIMUM COVER AND CLEARANCE TABLE)
11. TRENCH SECTIONS SHOWN ARE SCHEMATIC AND INDICATE AREAS OF OCCUPANCY ONLY, THEY DO NOT REFLECT THE SIZE OR QUANTITY OF THE FACILITIES BEING INSTALLED AND ARE DESIGNED TO ACCOMMODATE ALL REQUIRED FACILITIES AS SHOWN ON EACH TRENCH PARTICIPANTS' CONSTRUCTION DRAWINGS. REFER TO THE COMPOSITE, CONDUIT, STREETLIGHT PLAN AND/OR EACH RESPECTIVE UTILITY COMPANIES CONSTRUCTION DRAWINGS FOR THE NECESSARY CONDUIT, CABLE AND/OR PIPE BEING INSTALLED.
12. RESPECTIVE UTILITY TO OBTAIN CITY OR COUNTY APPROVAL OF ALL ABOVE GROUND EQUIPMENT.
13. ALL BOXES TO BE INSTALLED WITHIN THE R/W AND/OR PUE AREA.
14. ANY QUESTIONS OR UNCERTAINTIES REGARDING REMOVAL AND/OR REPLACEMENT OF EXISTING HARDSCAPE OR LANDSCAPE SHALL BE COORDINATED WITH THE DEVELOPER AND/OR OTHER PARTIES/AGENCIES INVOLVED.
15. A 3 FOOT CLEAR & LEVEL WORKING AREA MUST BE MAINTAINED AROUND ALL ELECTRIC ENCLOSURES, EXCEPT 4'-6"x8'-6" VAULTS WHICH SHALL MAINTAIN A 5 FOOT MINIMUM CLEAR & LEVEL WORKING AREA ON THE SHORT SIDES AND 3 FOOT ON THE LONG WALL SIDES; PAD MOUNT EQUIPMENT SHALL MAINTAIN AN 8 FOOT CLEAR & LEVEL WORKING AREA IN FRONT OF EQUIPMENT DOORS AND 3 FOOT CLEAR ON SIDES & BACK, UNLESS DIRECTED OTHERWISE BY INSPECTOR. REFER TO THE PG&E "GREEN BOOK" STANDARD DRAWING 051122 FOR ADDITIONAL CLEARANCE PROTECTION REQUIREMENTS.

DESIGN CHANGE COMPONENT
ANY CHANGES TO THIS DESIGN MUST BE APPROVED BY
ROSIE DeOCAMPO (408) 229-9507
PG&E Gas ADE

DEVELOPER
PLEASE NOTE AND SIGN
ALL PG&E ENCLOSURES AND BOXES HAVE BEEN SET TO GRADE ACCORDING TO GRADE STAKES PROVIDED BY DEVELOPERS ENGINEER. ALL COSTS TO RELOCATE OR RE-ADJUST BOXES AT A LATER DATE WILL BE BILLED TO THE DEVELOPER. PLEASE HAVE YOUR SUPERINTENDENT VERIFY THE CORRECT GRADE OF ALL ENCLOSURES AND BOXES AND SIGN AND DATE DRAWING.
THANK YOU
SIGNED:
DATE:

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

REVISIONS

SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE
DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH GENERAL NOTES & DETAILS

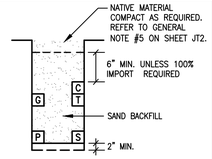
TRI-POINTE HOMES
COBBLESTONE

MILPITAS CALIFORNIA

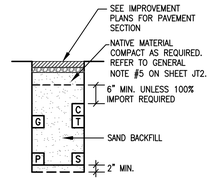
PROJECT MANAGER: B. FULLINGTON
DRAWN BY: BDF/SAS
CHECKED BY: BDF
SCALE: NONE
JOB NUMBER: 13-130
DATE LAST MODIFIED: 02-14-04
SHEET JT2 OF 4 SHEETS

MINIMUM COVER & CLEARANCE CHART

UTILITY	G	T	C	S	P	PUB SL	PGE SL	F	MINIMUM COVER
G (GAS) SEE NOTE 3 & 4		12"	12"	6"	12"	12"	6"	12"	24"; 30" IN STREET
T (TELEPHONE)	12"		1"	12"	12"	12"	12"	1"	24"; 30" IN STREET
C (CABLE T.V.)	12"	1"		12"	12"	1"	12"	1"	24"; 30" IN STREET
S (ELECT. SECONDARY)	6"	12"	12"		3"	12"	1"	12"	24"; 30" IN STREET
P (ELECT. PRIMARY)	12"	12"	12"	3"		12"	3"	12"	30"; 36" IN STREET
*SL (PUBLIC-STREET LIGHT)	12"	12"	1"	12"	12"		12"	1"	24"; 30" IN STREET
SL (PG&E-STREET LIGHT)	6"	12"	12"	1"	3"	12"		12"	24"; 30" IN STREET
F (CITY-FIBER OPTIC)	12"	1"	1"	12"	12"	1"	12"		24"; 30" IN STREET



TRENCH IN DIRT AREA



TRENCH IN STREET AREA OR SIDEWALK

NOTE:

1. TRENCH COVER & CLEARANCES SHOWN ARE MINIMUMS ONLY AND MAY REQUIRE ALTERATIONS TO SUIT FIELD CONDITIONS.
2. IT IS RECOMMENDED THAT ALL FACILITIES ARE TO BE A MINIMUM OF 12" BELOW SUBBASE DISTURBANCE.
3. WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, WHEN 4" O.D. OR SMALLER GAS PIPE IS INSTALLED, SEPARATION MAY BE REDUCED TO NOT LESS THAN 6" BETWEEN GAS AND COMMUNICATION DUCTS (TELEPHONE, CATV & FIBER OPTIC).
4. WHERE 6" GAS MAIN IS IN JOINT TRENCH 12" MINIMUM SEPARATION FROM GAS MAIN TO ALL UTILITIES WILL BE REQUIRED.
5. 3" MINIMUM BETWEEN 600A (6") MAINLINE PRIMARY ELECTRIC DUCTS.

*6. WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, ST. LT. SEPARATION MAY BE REDUCED TO 0" BETWEEN ST. LT. AND COMMUNICATION DUCTS (TELEPHONE, CATV. & FIBER OPTIC).

TRENCH SECTION LEGEND

- ☐ MEETS UTILITY TRENCH ALLOTMENT
- ▭ EXCEEDS UTILITY TRENCH ALLOTMENT
- [P] PG&E PRIMARY
- [S] PG&E SECONDARY
- [G] PG&E GAS
- [T] TELEPHONE
- [C] CABLE T.V.
- [F] CITY FIBER OPTIC
- [SL] PRIVATE STREET LIGHTING

XX LF-TOTAL = TOTAL TRENCH LENGTH

XX LF-R&R = REMOVE & REPLACE PAVEMENT ONLY, TRENCH INCLUDED IN TOTAL TRENCH LENGTH

GENERAL TRENCH SECTION NOTES

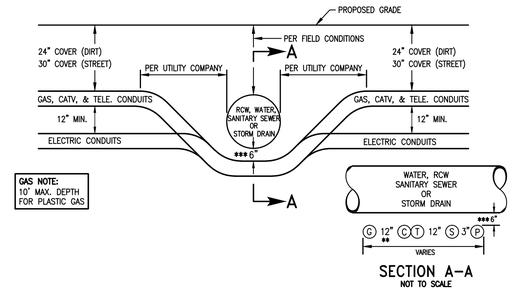
1. TRENCH CONFIGURATIONS SHOWN ARE FOR INSTALLATIONS WHERE EACH OCCUPANT IS UTILIZING HIS ENTIRE SPACE ALLOCATION. OTHER CONFIGURATIONS, OR REDUCED DIMENSIONS, MAY BE USED PROVIDED THAT MINIMUM COVER AND CLEARANCES ARE MAINTAINED.
2. CONTRACTOR TO ADJUST TRENCH DEPTHS AT ALL JOINT TRENCH LATERAL CROSSINGS TO MAINTAIN REQUIRED CLEARANCES BETWEEN ALL PARTICIPATING UTILITIES.

JOINT TRENCH OCCUPANCY GUIDE

SECTION	G	T	C	S	P	OTHER
*A	X	X	X	X	X	
*B	X	X		X	X	
*C	X		X	X	X	
*D		X	X	X	X	
*E	X			X	X	
*F		X		X	X	
*G			X	X	X	
*H				X	X	
I	X	X	X			
J	X	X				
K	X		X			
L		X	X			
M	X	X	X	X		
N	X	X		X		
O	X		X	X		
P		X	X	X		
Q	X			X		
R		X		X		
S			X	X		
T	X					
U		X				
V			X			
W				X		

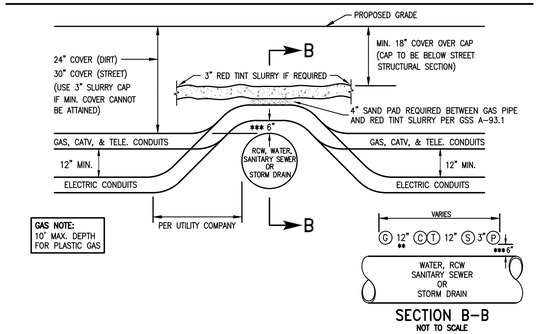
*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

DRY UTILITY CROSSING DETAILS



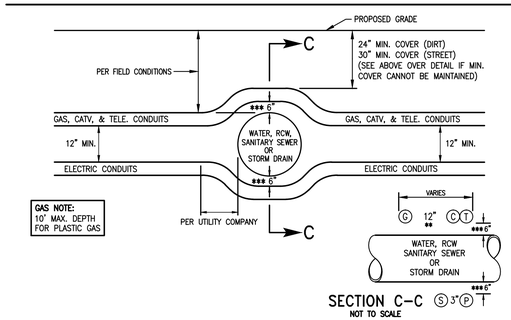
SECTION A-A
NOT TO SCALE

JOINT TRENCH UNDER WATER, RECYCLED WATER, SANITARY SEWER OR STORM DRAIN



SECTION B-B
NOT TO SCALE

JOINT TRENCH OVER WATER, RECYCLED WATER, SANITARY SEWER OR STORM DRAIN



SECTION C-C
NOT TO SCALE

JOINT TRENCH OVER/UNDER WATER, RECYCLED WATER, SANITARY SEWER OR STORM DRAIN (PREFERRED METHOD)

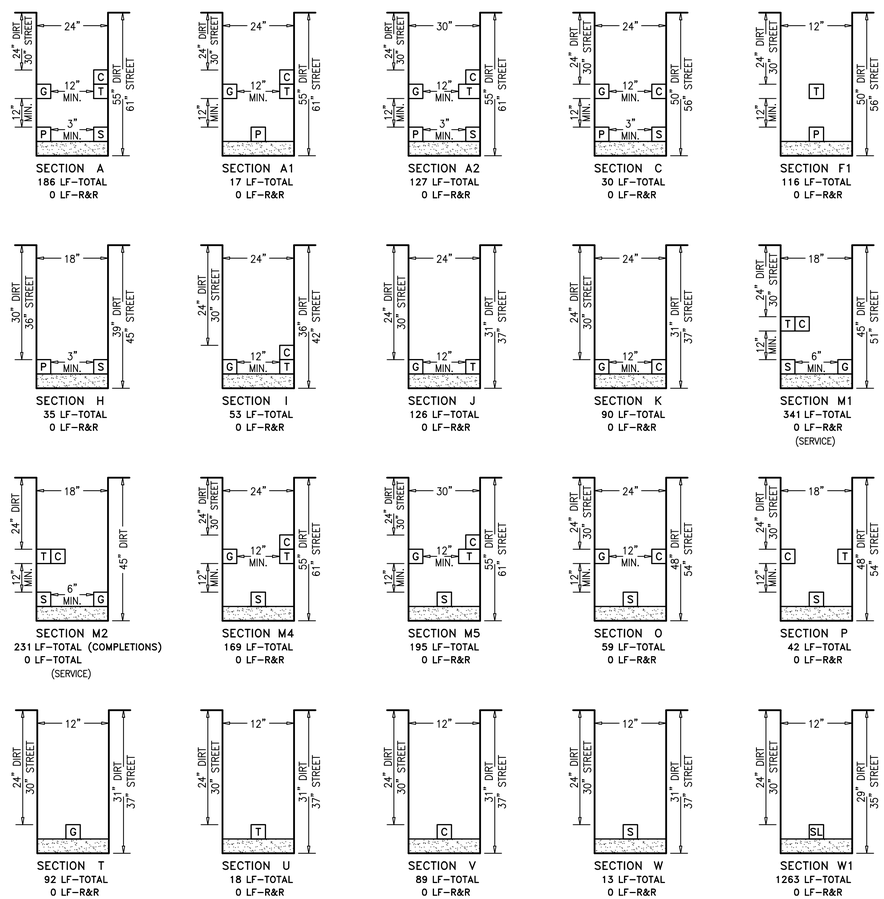
NOTE:

*1. SEE MINIMUM COVER & CLEARANCE CHART.

**2. WITH MUTUAL AGREEMENT, WHEN 4" O.D. OR SMALLER GAS PIPE IS INSTALLED SEPARATION MAY BE REDUCED TO NOT LESS THAN 6" BETWEEN GAS AND COMMUNICATION DUCTS (TELEPHONE & CATV).

3. 6" MINIMUM REQUIRED BY PG&E-ADDITIONAL CLEARANCE MAYBE REQUIRED BY CITY OR COUNTY. BED THE BOTTOM OF THE TRENCH WITH IMPORTED SAND, INSTALL THE CONDUIT AND/OR GAS PIPE, COVER THE FACILITY WITH THE SAME IMPORTED SAND AND MECHANICALLY COMPACT USING A VIBRATORY TYPE COMPACTOR.

4. CROSSING METHODS ARE NOT LIMITED TO THE ABOVE DETAILS. OTHER APPROVED CONFIGURATIONS MAY BE USED. CONTRACTOR TO VERIFY METHOD OF CROSSING WITH GOVERNING AGENCY AND/OR UTILITY COMPANIES AS REQUIRED PRIOR TO CONSTRUCTION.
5. JOINT TRENCH CONTRACTOR SHALL NOT ASSUME THAT ANY OF THE METHODS ABOVE WILL BE ACCEPTABLE TO PG&E & THE UTILITIES. J.T. CONTRACTOR IS REQUIRED TO COORDINATE THE LOCAL INSPECTORS PRIOR TO INSTALLING DRY UTILITIES ACROSS WATER, RECYCLED WATER, SANITARY SEWER, STORM DRAIN OR ANY OTHER FACILITY WITH ANY ISSUE RELATING TO COVERS LESS THAN THE MINIMUM OR COVERS REQUIRING SHORING. CONCRETE CAPPING IS ONLY ACCEPTABLE WHERE NO OTHER SOLUTION IS POSSIBLE AND ONLY WHEN CERTAIN CRITERIA ARE MET AND ONLY WITH PG&E APPROVAL.



REMEDIATION OPTION FOR TRANSFORMER IN CORROSIVE SOIL

CONTRACTOR TO COORDINATE THE USE OF THIS DETAIL WITH THE DEVELOPER, GIACALONE DESIGN & PG&E PRIOR TO INSTALLATION.

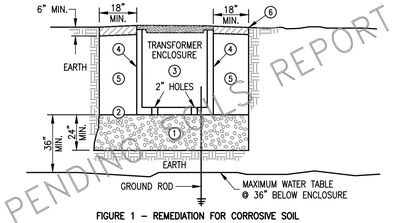


FIGURE 1 – REMEDIATION FOR CORROSIVE SOIL

PENDING SOILS REPORT

TRANSFORMER ENCLOSURE REMEDIATION INSTALLATION:

(PG&E STANDARD DRAWING – 072149) (REV. #3: 06-29-12)

WHEN A SUBSURFACE TRANSFORMER IS TO BE INSTALLED IN AN AREA THAT IS TOO CORROSIVE PER ED 072149, AND IT IS ALLOWED BASED ON THE CRITERIA NOTED ABOVE, THE INSTALLATION MUST BE DONE AS FOLLOWS AND AS SHOWN ON FIGURE 1 (THE NUMBERS CORRESPOND TO THOSE USED IN THE FIGURE):

1. EXCAVATE FOR 18" SKIRT OF SLURRY AND 24" OF DRAIN ROCK BASE, INSTALL 1/2"-3/4" DRAIN ROCK A MINIMUM OF 24" DEEP COMPACTED ACROSS THE BOTTOM OF THE EXCAVATION TO ALLLOW FOR WATER DRAINAGE FROM THE ENCLOSURE.
2. INSTALL US FABRICS TYPE US380NW GEOTEXTILE FABRIC, LAYFIELD NONWOVEN GEOTEXTILE, TYPE LP16. OR PROPEX SYNTHETICS NONWOVEN, TYPE GEOTEX 1601 ACROSS THE TOP OF THE DRAIN ROCK BASE TO KEEP THE DRAIN ROCK FROM FILLING WITH SOIL.
3. SET THE TRANSFORMER ENCLOSURE AND DRILL (4) EVENLY SPACED 2" DRAIN HOLES THROUGH THE BOTTOM OF THE ENCLOSURE, AND THROUGH THE GEOTEXTILE FABRIC INTO THE ROCK BASE. (NOTE: IF LEAD TIME PERMITS, THE ENCLOSURE SUPPLIER MAY BE ABLE TO PROVIDE THE ENCLOSURE WITH THE 2" DRAIN HOLES INCLUDED).
4. WATERPROOF EXTERIOR SIDE WALLS OF ENCLOSURE USING TREMPROOF 250 GC FLUID APPLIED ELASTOMERIC WATERPROOFING MEMBRANE TO KEEP WATER FROM MIGRATING THROUGH THE WALLS INTO THE ENCLOSURE. (NOTE: IF LEAD TIME PERMITS, THE ENCLOSURE SUPPLIER MAY BE ABLE TO PROVIDE A WATERPROOFED ENCLOSURE).
5. INSTALL CONDUITS AND STUB OUT BEYOND THE SLURRY AREA WITH "SAND PLUGS". POUR 2 SACK CONCRETE SLURRY FILL ON ALL SIDES OF ENCLOSURE ABOVE DRAIN ROCK, MINIMUM 18" WIDTH, TO WITHIN 6" OF ENCLOSURE TOP. THE SLURRY IS TO FURTHER IMPEDE THE MIGRATION OF WATER INTO THE ENCLOSURE WHILE STILL ALLOWING FOR FUTURE ACCESS TO THE CONDUITS.
6. POUR A 6" CONCRETE CAP AROUND THE TOP EDGE OF THE ENCLOSURE, MIN. 18" WIDTH, MATCHING THE GRADE OF THE ENCLOSURE LID AND WITH A MINIMUM 2%, MAXIMUM 10% SLOPE AWAY FROM THE ENCLOSURE LID. USE 10% SLOPE IF ENCLOSURE IS NOT IN A MONOLITHIC SIDEWALK AREA. THE CONCRETE CAP IS TO PROTECT THE SLURRY MIX FROM DAMAGE AND TO IMPEDE THE FLOW OF SURFACE WATER INTO THE ENCLOSURE. (NOTE: THE STANDARD CURB AND GUTTER MAY SUBSTITUTE FOR PART OF THE CONCRETE CAP AND SLURRY).

ESTIMATING NOTE:

ACCOUNT FOR THE EXCAVATION, ROCK BASE, SLURRY, AND CONCRETE CAP IN THE ESTIMATED TRENCH COSTS. INCLUDE INSTALLATION OF THE GEOTEXTILE FABRIC AND THE WATERPROOFING MEMBRANE IN THE COSTS TO INSTALL THE ELECTRIC SUBSTRUCTURE. COSTS AND ORDERING INFORMATION FOR THE FABRIC AND MEMBRANE TO FOLLOW.

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

REVISIONS

SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

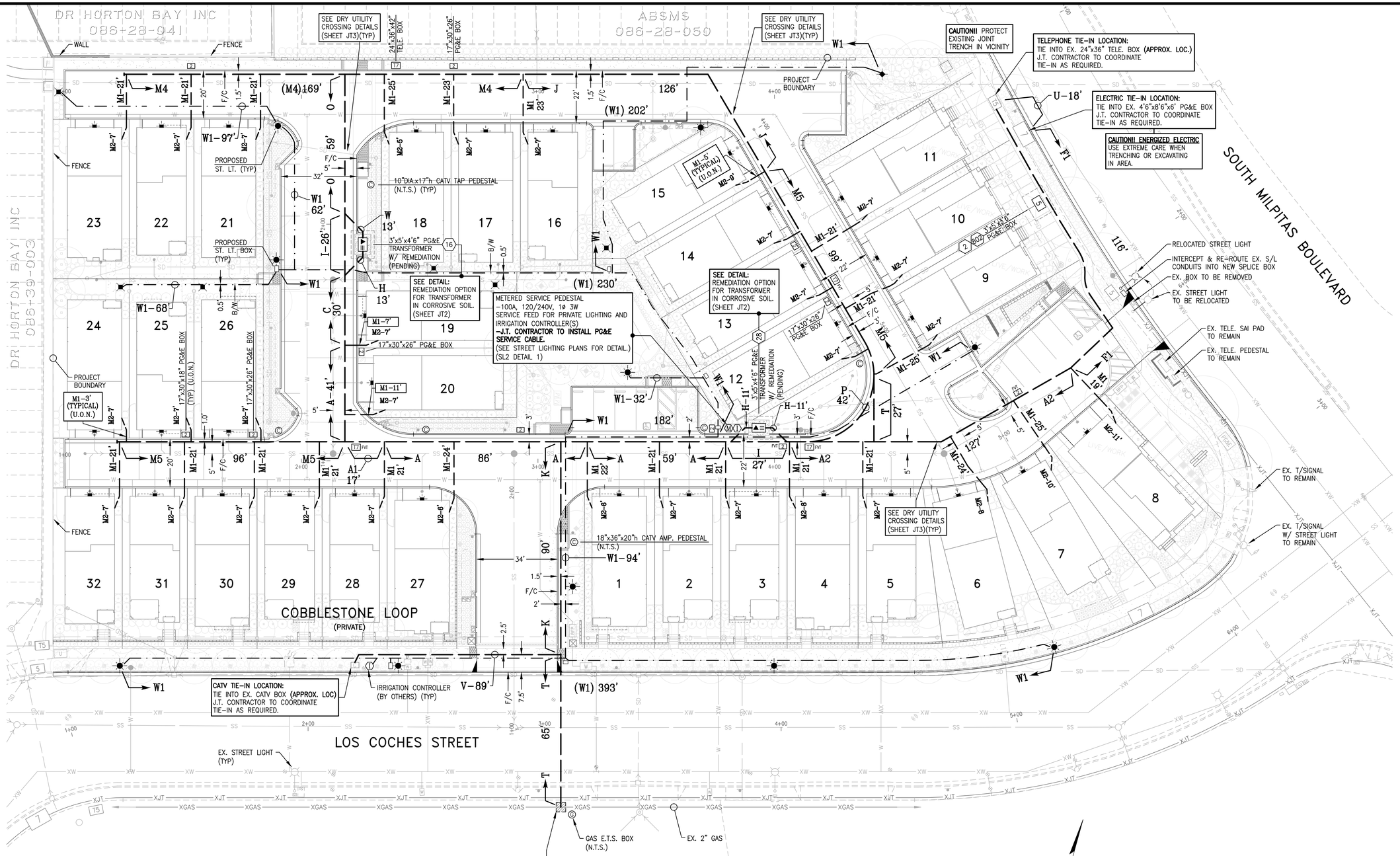
JOINT TRENCH SECTIONS & DETAILS

TRI-POINTE HOMES
COBBLESTONE

MILPITAS CALIFORNIA

PROJECT MANAGER: B. FULLINGTON
DRAWN BY: BDF/SAS
CHECKED BY: BDF
SCALE: NONE
JOB NUMBER: 13-130
DATE LAST MODIFIED: 02-14-14

SHEET JT3 OF 4 SHEETS



LEGEND

XJT	EXISTING TRENCH OR UTILITIES	Ⓒ	10"DIA.x17"h CATV TAP PEDESTAL (N.T.S.)
	PROPOSED TRENCH (DISTRIBUTION)	Ⓒ	18"x36"x20"h CATV AMP. PEDESTAL (N.T.S.)
	PROPOSED TRENCH (SERVICE)	Ⓜ	METERED SERVICE PEDESTAL
	PROPOSED STREET LIGHT TRENCH	Ⓘ	IRRIGATION CONTROLLER (BY OTHERS)
	EXISTING UTILITY SPLICE BOX		PROPOSED POST TOP STREET LIGHT
Ⓖ	GAS E.T.S. BOX (N.T.S.)		PROPOSED BOLLARD LIGHT
2	17"x30"x18" PG&E SPLICE BOX		PROPOSED WALLPACK LIGHT
FVT 2	17"x30"x18" PG&E SPLICE BOX W/ FULL VEHICULAR TRAFFIC LID		STREET LIGHT BOX (STATE TYPE 3 1/2)
5	3'x5'x3'6" PG&E SPLICE BOX		EXISTING STREET LIGHT
	3'x5'x4'6" PG&E SUBSURFACE TRANSFORMER W/REMEDIATION FOR CORROSIVE SOIL	(#)	PG&E SKETCH LOCATION NUMBER
T7	24"x36"x42" TELEPHONE SPLICE BOX	(F.V.T.)	FULL VEHICULAR TRAFFIC LID
FVT T7	24"x36"x42" TELEPHONE SPLICE BOX W/ FULL VEHICULAR TRAFFIC LID	(N.T.S.)	NOT TO SCALE
		(U.O.N.)	UNLESS OTHERWISE NOTED

20 0 10 20 40
(IN FEET)
1 INCH = 20 FT.

R/W, P.U.E. & P.S.E. ACQUISITION NOTE:
CONTRACTOR TO VERIFY RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE
DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH COMPOSITE PLAN

TRI-POINTE HOMES
COBBLESTONE

MILPITAS CALIFORNIA

PROJECT MANAGER: B. FULLINGTON
DRAWN BY: BDF/SAS
CHECKED BY: BDF
SCALE: 1"=20'
JOB NUMBER: 13-130
DATE LAST MODIFIED: 02-14-14
SHEET JT4 OF 4 SHEETS

COBBLESTONE - STREET LIGHTING

WATTAGE	LE2 / LE3 / LE4 / LE5 ACDR GL
40W49LED4K-ES	✓
65W49LED4K-ES	✓
90W49LED4K-ES	✓

✓ : Available

VOLTAGE

120 / 208 / 240 / 277 / 347 / 480[1]

[1]Comes with a step-down transformer with 40W49LED4K-ES and 65W49LED4K-ES.

LAMPS / HID

	GL				ACDR			
WATTAGE	DSX3	DSX5	DSH3	DSH5	DSX3	DSX5	DSH3	DSH5
50 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
70 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
100 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
150 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
175 MH, mogul	✓	✓	✓	✓	✓	✓	✓	✓
200 MH, mogul	✓	✓	✓	✓	N/A	N/A	N/A	N/A
250 MH, mogul	✓	✓	✓	✓	N/A	N/A	N/A	N/A
35 HPS, medium	✓	✓	✓	✓	✓	✓	✓	✓
50 HPS, mogul	✓	✓	✓	✓	✓	✓	✓	✓
70 HPS, mogul	✓	✓	✓	✓	✓	✓	✓	✓
100 HPS, mogul	✓	✓	✓	✓	✓	✓	✓	✓
150 HPS, mogul	✓	✓	✓	✓	✓	✓	✓	✓
200 HPS, mogul	✓	✓	✓	✓	N/A	N/A	N/A	N/A
250 HPS, mogul	✓	✓	✓	✓	N/A	N/A	N/A	N/A

✓ : Available N/A : Not available

CosmoPolis™ / new generation of ceramic metal halide lamp

	GL				ACDR			
WATTAGE	DSX3	DSX5	DSH3	DSH5	DSX3	DSX5	DSH3	DSH5
50 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
70 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
100 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓

✓ : Available

Master Color Elite /

	GL				ACDR			
WATTAGE	DSX3	DSX5	DSH3	DSH5	DSX3	DSX5	DSH3	DSH5
50 MH, medium	✓	✓	✓	✓	✓	✓	✓	✓
70 MH, medium	✓	✓	✓	✓	N/A	N/A	N/A	N/A

✓ : Available N/A : Not available

Philips Lumec reserves the right to substitute materials or change the manufacturing process of its products without prior notification.
*For the latest updates go to **www.philips.com/lumec.***

PHILIPS LUMEC

OPTICAL SYSTEMS / LED

Prismatic globe
IP66 rated optical system, composed of individual pre-oriented lens to achieve desired distribution, assembled with globe having an inner prismatic surface permanently sealed onto the lower part of the heat sink.

LE2: Asymetrical
LE3: Asymetrical
LE4: Asymetrical
LE5: Symmetrical (square)

> LE2/LE3/LE4/LE5 available in acrylic and borosilicate.
> House shield available in option (HS).

Prismatic globe
IP66 rated optical system, composed of individual pre-oriented lens to achieve desired distribution, assembled with globe having an inner prismatic surface permanently sealed onto the lower part of the heat sink.

LEH2: Asymmetrical : Extensive
LEH5: Asymmetrical : Extensive

> LEH2/LEH5 available in acrylic and borosilicate.
> House shield available in option (HS).

* Photometry available on Philips Lumec's web site www.philips.com/lumec.

OPTICAL SYSTEMS / HID

(Lamps not included)

DSX Optics
Optical system made of a hydroformed reflector sealed on a prismatic globe.

DSX3 / Asymmetrical : Cutoff
DSX5 / Symmetrical : Cutoff

> House shield available in option (HS).

DSH Optics
Optical system made of a hydroformed reflector sealed on a prismatic globe.

DSH3 / Asymmetrical : Extensive Non-Cutoff
DSH5 / Symmetrical : Extensive Non-Cutoff

> House shield available in option (HS).

* Photometry available on Philips Lumec's web site www.philips.com/lumec.

VOLTAGE

DH[1] : 120 / 208 / 240 / 277 / 347 / 480
CosmoPolis™ : 120 / 208 / 240 / 277

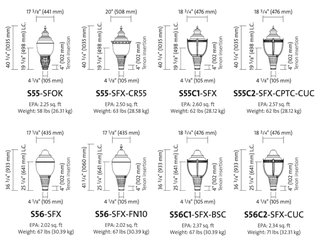
[1] Multi-tap ballast also available.

BENEFITS

> Glass globe with no exterior prism.
> Cut-off optical system having as low as 1% uplight with DSX optics.
> Superior efficiency & lighting uniformity, available with metal halide (MH) and high-pressure sodium (HPS) lamp sources as well as induction lamps (QL) and LED.
> Toolfree access & IP66 sealed optical chamber.

LUMINAIRES

*Conform to the **UL 1598** and **CSA C22.2 No. 250.0-08** standards*



S55-SFOK
EPA: 2.25 sq. ft
Weight: 58 lbs (26.31 kg)

S55-SFX-CR5S
EPA: 2.50 sq. ft
Weight: 63 lbs (28.58 kg)

S55C1-SFX
EPA: 2.60 sq. ft
Weight: 62 lbs (28.12 kg)

S55C2-SFX-CPTC-CUC
EPA: 2.57 sq. ft
Weight: 62 lbs (28.12 kg)

S56-SFX
EPA: 3.02 sq. ft
Weight: 67 lbs (30.39 kg)

S56-SFX-FN10
EPA: 3.02 sq. ft
Weight: 67 lbs (30.39 kg)

S56C1-SFX-BSC
EPA: 2.31 sq. ft
Weight: 67 lbs (30.39 kg)

S56C2-SFX-CUC
EPA: 2.34 sq. ft
Weight: 71 lbs (32.31 kg)

LAMPS / LED

LAMP CODE DEFINITION / 40W 49LED 4K

- Lamp wattage
- Number of diodes (LED)
- Color temperature

LED = Philips Lumileds Rebel ES, CRI = 70, CCT = 4000K (+/- 350K)
LED rated life = 100,000 hrs[1] - Driver rated life = 50,000 hrs

LAMP	TYPICAL DELIVERED LUMENS[2] STANDARD	TYPICAL DELIVERED LUMENS[2] SHYPER EXTENDIF	TYPICAL LAMP WATTAGE (W)	TYPICAL SYSTEM WATTAGE[3] (W)	TYPICAL CURRENT @ 120 V (A)	TYPICAL CURRENT @ 240 V (A)	TYPICAL CURRENT @ 277 V (A)	LED CURRENT (MA)	HPS EQUIVALENT[4]	LUMINAIRE EFFICACY RATING (LM/W) STANDARD	LUMINAIRE EFFICACY RATING (LM/W) HYPER EXTENDIF
40W49LED4K-ES	3515	3795	42	47	0.39	0.20	0.17	285	70 W	75	81
65W49LED4K-ES	4900	5080	65	72	0.60	0.30	0.26	428	100 W	68	71
90W49LED4K-ES	5875	6080	90	102	0.85	0.43	0.37	571	100 W	58	60

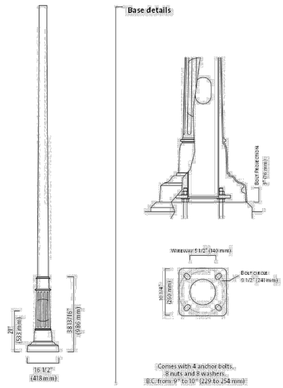
[1] L70 = 100,000 hrs (at ambient temperature = 25°C and forward current = 700 mA).
[2] May vary depending on the optical distribution used.
[3] System wattage includes the lamp and the LED driver.
[4] Compared to Serenade DSX (equivalence should always be confirmed by a photometric layout).

*Philips Lumec reserves the right to substitute materials or change the manufacturing process of its products without prior notification. For the latest updates go to **www.philips.com/lumec.***

PHILIPS LUMEC

RTA800 > ALUMINUM FLUTED POLE

Base details



Specifications:

Pole: made from tapered 6" to 4" (152 to 102 mm) round aluminum shaft welded to a cast-aluminum anchor plate. After tapering and welding, the entire shaft assembly is heat-treated to T6 temper. A 3" by 5" (76 by 127 mm) maintenance opening is complete with cover and copper ground lug.
Base cover: decorative base cover made from two cast-aluminum pieces fastened together with stainless steel hardware around the base of the pole. Base cover is complete with a door to access the maintenance opening.
Finish: See page 142 for Finish details.
Options:

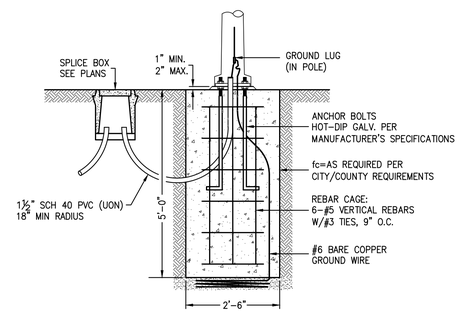
LS:	Provision for loudspeaker outlet (see page 192)
PH7:	Button-type photoelectric cell (specify operating voltage)
DR:	Duplex receptacle (120V line voltage only)
GFI:	'A' with common ground fault interrupter (120V line voltage only)
BA:	Banner arm (see page 116)
PS:	Plant support (see page 157)
MPL:	Mid-pole luminaire

Note: The recommended method for calculating EPA (Effective Projected Area) is in accordance with AASHTO 2001 standards. For three seconds, the pole is tested in wind gusts equivalent to the strongest winds on record over the past 50 years, and with a 50 pound load (22.7 kg) placed at 5 feet (1525 mm) above its center.

CATALOG NUMBER	NOMINAL HEIGHT		TENON SECTION		WALL THICKNESS		WEIGHT		EPA RATING 90 MPH	110 MPH	120 MPH	150 MPH	ANCHOR BOLTS	
	ft	m	in	mm	in	mm	lbs	kg	sq.ft.	sq.ft.	sq.ft.	sq.ft.	in	mm
RTA800F-8	8	3.05	4	102	0.125	3.2	48	22	26.68	17.86	15.02	9.57	1-36	25-914
RTA800N-8	8	3.05	4	102	0.188	4.8	57	26	30	26.88	22.63	14.48	1-36	25-914
RTA800F-10	10	3.05	4	102	0.125	3.2	55	24	21.35	14.11	11.82	7.45	1-36	25-914
RTA800N-10	10	3.05	4	102	0.188	4.8	62	28	30	23.53	18.07	11.47	1-36	25-914
RTA800F-12	12	3.66	4	102	0.125	3.2	58	26	17.45	11.35	9.48	5.9	1-36	25-914
RTA800N-12	12	3.66	4	102	0.188	4.8	67	30	26.74	17.65	14.77	9.9	1-36	25-914
RTA800F-14	14	4.27	4	102	0.125	3.2	62	28	14.44	9.22	7.64	4.67	1-36	25-914
RTA800V-14	14	4.27	4	102	0.250	6.4	91	41	30	20.76	17.37	10.94	1-36	25-914
RTA800F-16	16	4.88	4	102	0.125	3.2	67	30	12.06	7.54	6.2	3.71	1-36	25-914
RTA800V-16	16	4.88	4	102	0.250	6.4	100	45	27.23	17.78	14.83	9.24	1-36	25-914
RTA800F-18	18	5.49	4	102	0.125	3.2	71	32	9.83	5.93	4.79	2.78	1-36	25-914
RTA800V-18	18	5.49	4	102	0.250	6.4	109	49	25.09	14.87	12.33	7.62	1-36	25-914
RTA800F-20	20	6.10	4	102	0.125	3.2	76	34	7.95	4.56	3.62	1.99	1-36	25-914
RTA800V-20	20	6.10	4	102	0.250	6.4	118	54	19.75	12.47	10.3	6.28	1-36	25-914

PHILIPS LUMEC P60 5 POLE AND BRACKET GUIDE

Note: Philips Lumec reserves the right to modify the above details to reflect changes in the cost of materials and/or production and/or design without prior notice.



STREET LIGHT FOUNDATION DETAIL

NOT TO SCALE

PUBLIC/PRIVATE LIGHTING:	PRIVATE
PG&E RATE SCHEDULE:	METERED
INSTALL IN JOINT TRENCH:	
INSTALL IN SEPARATE TRENCH:	✓
CITY PERMIT REQUIRED:	✓

LUMINAIRE SCHEDULE

TYPE	LUMINAIRE	MTG. HT.	ARM	POLE HT.	MATERIAL	QUANTITY
POST TOP	100W, MH, 120V	15'-6"±	–	14'-0"	ALUMINUM	10
BOLLARD	70W, SMH, 120V	3'-6"±	–	–	ALUMINUM	7
WALLPAK	18W, LED, 120V	9'-0"±	–	–	ALUMINUM	32

*NOTE: CONTRACTOR TO VERIFY ALL QUANTITIES AND SPECIFICATIONS PRIOR TO ORDERING.

Job: **Los Coches Circle Milpitas CA**
Type: Type CC
Notes: 111L-4-20LA-NW-UNIV-BRP-PCB (verify color B/4 ordering)

110 Line LED

Page 1 of 3

111 Mini Sconce LED

Philips Gardco 111 LED mini sconce luminaires are compact in size, perfect for low mounting height wall mount applications. 111 LED luminaires are designed to integrate naturally to wall surfaces. 111 LED luminaires are available with three (3) different distribution patterns, providing full cutoff performance (in the normal downlight position) and featuring LED arrays. Luminaires provide performance excellence and advanced Philips Gardco LED thermal management technology. High performance Class 1 LED systems offer potential energy savings of 50 % or more compared to HID systems. 111 LED luminaires are also available with 0-10V Dimming.

PREFIX	DISTRIBUTION	LED WATTAGE	LED SELECTION	VOLTAGE	FINISH	OPTIONS
111L	4	20LA	NW	UNIV	BRP	PCB

Enter the order code into the appropriate box above. Note: Philips Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX

111L	Trapezoidal Wedge LED - Constant Wattage / Full Light Output	
111L-DIM	Trapezoidal Wedge LED - 0 - 10V Dimming	(Control system by others.)

See page 3 for more detailed luminaire configuration information.

DISTRIBUTION

2	Type II	Wide Throw Optic, featuring Maximized Lateral Throw
3	Type III	Preferred Wide Throw Optic, featuring Improved Forward Throw
4	Type IV	Maximized Forward Throw Optic

LED WATTAGE AND LUMEN VALUES

Ordering Code	Average System Watts[1]	LED Current (mA)	LED Selection	Luminaire Initial Absolute Lumens[2] TYPE 2	TYPE 3	TYPE 4
20LA	18	350	CW	1,449	1,512	1,468
			NW	1,418	1,509	1,433
30LA	28	530	CW	2,145	2,236	2,156
			NW	2,056	2,209	2,085
40LA	38	700	CW	2,682	2,825	2,691
			NW	2,589	2,735	2,593

Basis of Lumen Data
Photometric tests performed in compliance with IESNA LM-79.

1. Wattage may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.
2. Tests are in process for luminaires with the DL option. Contact Gardco.applications@philips.com if any approximate estimates are required for design purposes.

LED SELECTION

CW	Cool White - 5700°K - 75 CRI
NW	Neutral White - 4000°K - 70 CRI

VOLTAGE

UNIV	120V through 277V, 50hz or 60hz

1611 Clovis Barker Road, San Marcos,TX 78666
(800) 237-0758 (512) 753-1000 FAX: (512) 753-7855 sitelighting.com

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G200-039/1012

PHILIPS GARDCO

110 Line LED

Page 2 of 3

111 Mini Sconce LED

FINISH

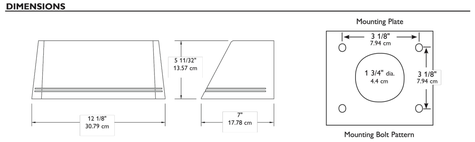
BRP	Bronze Paint
BLP	Black Paint
WP	White Paint
NP	Natural Aluminum Paint
BGP	Beige Paint
OC	Optional Color Paint *Specify Optional Color or RAL or DC-LGP or DC-RAL7024.*
SC	Special Paint *Specify. Must supply color chip.*

OPTIONS

F[1]	Fusing
PCB[2]	Button Type Photocontrol
DL	Diffusing Lens *(reduces performance significantly)*
WS[3]	Wall Mounted Box for Surface Conduit
SPR	Surge Protection 120V thru 277V Input meeting ANSI C62.41.2 *(Not available with Fusing (F) option.)*

3. Provide specific input voltage.
4. Rear entry permitted.

DIMENSIONS



Note: Mounting plate center is located in the center of the luminaire width and 2.38" (6.03cm) above the luminaire bottom (lens down position). Splices must be made in the J-box (by others). Mounting plate must be secured by max. 5/16" (.79cm) diameter bolts (by others) structurally to the wall.

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G200-039/1012

PHILIPS GARDCO

PRIVATE LIGHTING CONTRACTORS NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHALL, FEDERAL AND ALL APPLICABLE CITY, COUNTY, STATE AND LOCAL UTILITY COMPANY REGULATIONS; N.E.C., AND THE LATEST APPROVED STANDARDS OF I.E.E.E., A.S.A, N.E.M.A., U.L. AND OSHA WHERE APPLICABLE. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE. ALSO, ALL SECTIONS OF STATE OF CALIFORNIA PUC G.O. 95 SHALL APPLY.
2. TWO OR MORE LIGHTS ON THE SAME CIRCUIT SHALL BE WIRED TO BALANCE THE LOAD. (SEE WIRING DIAGRAM)
3. CONDUIT AND FITTINGS: ALL CONDUIT AND FITTINGS SHALL BE U.L. APPROVED. UNLESS OTHERWISE NOTED OR REQUIRED, USE MINIMUM 1 1/2" FOR STREET LIGHT, AND BOLLARDS SCHEDULE 40 P.V.C. CONDUIT AND FITTINGS BELOW GRADE. MINIMUM RADIUS BENDS SHALL BE 18". PROVIDE PULL WIRE IN ALL EMPTY CONDUITS.
4. CONDUIT DEPTH: 24" UNDER SIDEWALK; 24" UNDER PLANTER STRIP; 30" UNDER PAVEMENT.
5. CABLE: CABLE SHALL BE U.L. LISTED 600 VOLT A.W.G. NO. 8, 7-STRAND SOFT COPPER, TYPE THW OR THWN WITH MINIMUM OF 3/64" (40 MIL) POLYVINYL CHLORIDE INSULATION, UNLESS OTHERWISE NOTED. U.L. LISTED 600 VOLT, NO. 10 IN POLE MAY BE USED.
6. SPLICE BOXES: SPLICE BOXES SHALL BE NO. 3-1/2 STATE TYPE WITH LID AND BRASS HOLDDOWN BOLTS, UNLESS OTHERWISE NOTED. LIDS TO BE INSCRIBED 'LIGHTING'. SPLICE BOXES SHALL NOT BE MORE THAN 200 FEET APART ON LONG RUNS. (PER CALTRANS DETAIL ES-8).
7. FUSES: EACH STREET LIGHT SHALL BE FUSED WITH WATERPROOF IN-LINE FUSE HOLDERS (BUSHMAN HEB SERIES) AT EACH ADJACENT SPLICE BOX WITH 5 AMP FUSE.
8. SPLICING: ALL SPLICES SHALL BE MADE IN LIGHT BOXES ONLY. SPLICES SHALL BE MADE WITH 'C' SHAPED COMPRESSION CONNECTORS. ON SPLICES, WRAP WITH MOISTURE PROOF INSULATION A MINIMUM OF 1-1/2 TIMES THE THICKNESS OF REQUIRED WIRE INSULATION THICKNESS. SPLICES SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD METHOD 'B'. (PER CALTRANS DETAIL ES-13).
9. CONTRACTOR TO INSTALL CIRCUIT GROUNDING AND GROUND WIRE IN CONDUIT PER N.E.C. STANDARDS AND LOCAL GOVERNING AGENCIES REQUIREMENTS.
10. A LIST OF ALL MATERIALS & SUPPLIERS SHOULD BE PROVIDED TO AUTHORITY HAVING JURISDICTION FOR APPROVAL.
11. GROUNDING AND BONDING SHALL PROPERLY INTERCONNECT ALL METAL PARTS OF THE SYSTEM.
12. ALL CONNECTIONS SHALL BE SECURED WITH LOCK NUTS AND INSULATED BUSHINGS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE OPERATING SYSTEM.
14. EACH STREET LIGHT SHALL BE CONTROLLED BY A PHOTO ELECTRIC CELL MOUNTED ON TOP OF EACH LUMINAIRE OR THE TOP OF EACH POLE DEPENDING UPON THE MANUFACTURER'S RECOMMENDATIONS OR CONTROLLED BY OTHER MEANS AS SHOWN ON THE DRAWINGS.
15. FOUNDATION MOUNTED ELECTROLIERS SHALL BE PLUMBED BY ADJUSTING THE NUTS ON THE ANCHOR BOLTS BEFORE THE FOUNDATION CAP IS PLACED. SHIMS OR OTHER SIMILAR DEVICES FOR PLUMBING OR RAKING WILL NOT BE PERMITTED. AFTER PLUMBING THE STANDARD, ANCHOR BOLTS SHALL BE CUT OFF 1/4" ABOVE THE NUTS AND THE EXPOSED SURFACES SHALL BE REPAIRED AS INDICATED BY THE INSPECTING AGENCY.
16. AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE STREET LIGHT ADMINISTRATION DEPT. OF THE COUNTY PRIOR TO ACCEPTANCE OF THE PRIVATE LIGHTING SYSTEM.

PRIVATE LIGHTING GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHALL, FEDERAL AND ALL APPLICABLE CITY, COUNTY, STATE AND LOCAL UTILITY COMPANY REGULATIONS; N.E.C., AND THE LATEST APPROVED STANDARDS OF I.E.E.E., A.S.A, N.E.M.A., U.L. AND OSHA WHERE APPLICABLE. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE. ALSO, ALL SECTIONS OF STATE OF CALIFORNIA PUC G.O. 95 SHALL APPLY.
2. MATERIALS FURNISHED UNDER THIS SECTION OF THESE SPECIFICATIONS FOR WHICH UL STANDARDS HAVE BEEN ESTABLISHED SHALL BE LISTED AND BEAR THE LABEL OF UNDERWRITER'S LABORATORIES, INC.
3. WHERE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS CONFLICT WITH THE DRAWINGS OR THESE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
4. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT FIRST NOTIFYING & OBTAINING APPROVAL FROM CITY/COUNTY AGENCY & GIACALONE DESIGN SERVICES, INC.
5. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR ANY VARIANCE BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS. CONTRACTOR SHOULD REVIEW PROJECT SITE PRIOR TO SUBMITTING ITS BID.
6. ANY CHANGES OR MODIFICATIONS TO PROPOSED LIGHT LOCATIONS SHALL BE APPROVED, IN WRITING, BY THE CITY/COUNTY AGENCY PRIOR TO INSTALLATION.

NOTE:

The site lighting on this project shall be designed and installed in such a manner as to minimize light trespass on the adjacent properties.

CAUTION:

CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

DAVID B. FOSTER PROFESSIONAL ENGINEER
E11965
EXP. 9/30/15
ELECTRICAL
STATE OF CALIFORNIA

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

STREET LIGHTING TITLE SHEET

TRI-POINTE HOMES COBBLESTONE

MILPITAS CALIFORNIA

PROJECT MANAGER:	B. FULLINGTON
DRAWN BY:	CCP
CHECKED BY:	BDF
SCALE:	AS SHOWN
JOB NUMBER:	13-130
DATE LAST MODIFIED:	2-07-14
SHEET	SL1
OF	3 SHEETS

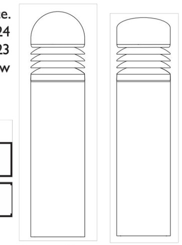
Job:
Type:
Notes:

BOLLARD

Page 1 of 2

BRM820/821/823 Dome Top Louver
BRM824/825/827 Bevel Top Louver

Philips Gardco's dome top and bevel top Louver Bollards provide uniform illumination, superior spacings and solid vandal resistance. Rugged extruded and cast construction with silicone seals and gasketing assure years of trouble free service. The BRM820 and BRM 824 are complete assemblies with an aluminum base. BRM821and BRM825 head only units affix to custom architectural elements. BRM 823 and BRM827 luminaires include a concrete base assembly. Each Philips Gardco BRM820/821/823 824/825/827 utilizes 35w through 100w high intensity discharge or up to 42w compact fluorescent lamps.



Dome Top Bevel Top

PREFIX	HEIGHT	WATTAGE	VOLTAGE	FINISH	OPTIONS

Enter the order code into the appropriate box above. Note: Philips Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX / HEIGHT

Dome Top	Bevel Top		HEIGHT
BRM820	BRM824	with Cast Aluminum Base	42" 36" 30" 24"
BRM821	BRM825	Head Only	11"
BRM823	BRM827	with Natural Concrete Base	42"
BRM823B	BRM827B	with Beige Concrete Base	42"
BRM823G	BRM827G	with Grey Concrete Base	42"

WATTAGE

50MH[1] **70MH** **100MH**
35HPS[2] **50HPS**[1] **70HPS** **100HPS**
26QF[3] **32TRF**[3] **42TRF**[3]
INC[2] *100w maximum A19*

MH Metal Halide (Pulse Start)
HPS High Pressure Sodium
QF Quad Tube Fluorescent
TRF Triple Tube Fluorescent
INC Incandescent

1. 120/277V Primary only.
2. 120V Primary only.
3. Features an electronic fluorescent ballast that accepts 120V through 277V, 50hz or 60hz input. 0°F/18°C starting temperature.

VOLTAGE

120
208
240
277

FINISH

BRP Bronze Paint
BLP Black Paint
WP White Paint
NP Natural Aluminum Paint
VP Verde Green Paint
OC Optional Color Paint *Specify RAL designation as ex: OC-RAL7024.*
SC Special Color Paint *Specify. Must supply color chip.*

OPTIONS

F Fusing
SHD Internal 180° Shield
DUP[4] Duplex Receptacle
GFCI[4] GFCI Receptacle

4. BRM820 and BRM824 only. Available in 36" and 42" heights only. Weathertight, flush mounted in lower housing, and located a minimum of 18" above grade.

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(800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 sitelighting.com
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79115-35/0511

PHILIPS GARDCO

BOLLARD

Page 2 of 2

BRM820/821/823 Dome Top Louver
BRM824/825/827 Bevel Top Louver

SPECIFICATIONS

UPPER HOUSING: Diecast aluminum dome top secures to one-piece louvered casting with three (3) concealed tamper resistant screws.

LOWER HOUSING:

BRM820 / BRM824: Luminaire features a cylindrical .125" (.318 cm) wall 6063-T5 extruded aluminum base housing. Bottom section has a welded-in cast ring for attachment to base assembly with four (4) hex head set screws.

BRM821 / BRM825: Louver head assembly is affixed to ballast mounting bracket which is suitable for insertion into architectural elements (by others).

BRM 823 / BRM827: Luminaire includes a pre-cast concrete base constructed with steel molds and wire reinforcing. Base is acid-etched to provide a smooth textured aggregate finish.

OPTICAL SYSTEM: Louvers are angled to provide maximum spacings while shielding the source to 90°. Upper louver features a concealed hammertoned anodized aluminum reflector to increase luminaire efficiency and generate unstriated beam patterns. A fully gasketed Pyrex vessel enshrouds the lamp envelope and is secured with a stainless steel spring.

SOCKET: Medium base pulse-rated lampholder is glazed porcelain with nickel plated reinforced screw shell and spring loaded contact.

ANCHORAGE:

BRM820 / BRM824 :Base assembly consists of a cast aluminum platform and ballast mounting bracket. Assembly is secured and leveled to the mounting foundation with four (4) 3/8" X 8" x 1 1/2" (.953 cm x 20.32 cm x 3.81 cm) anchor bolts on a 4 3/4" (12.07 cm) bolt circle. Ballast is prewired with quick electrical disconnects and mounting bracket is secured with two (2) Phillips head screws for ease of installation and servicing.

BRM 821 / BRM825: Mounting plate is cast aluminum with slots to accept anchor bolts (by others) at 90° on a 6 1/4" (15.88 cm) diameter bolt circle. A 4 1/2" (11.43 cm) diameter opening is required to house ballast assembly.

BRM823 / BRM827: Base assembly consists of four (4) galvanized steel base tabs fastened to pre-cast concrete base. Assembly is secured and leveled to the mounting foundation with four (4) 3/8" X 8" X 1 1/2" (.953 cm x 20.32 cm x 3.81 cm) anchor bolts on a 9 1/2" (24.13 cm) bolt circle. Base is designed for 5" (12.7 cm) direct burial

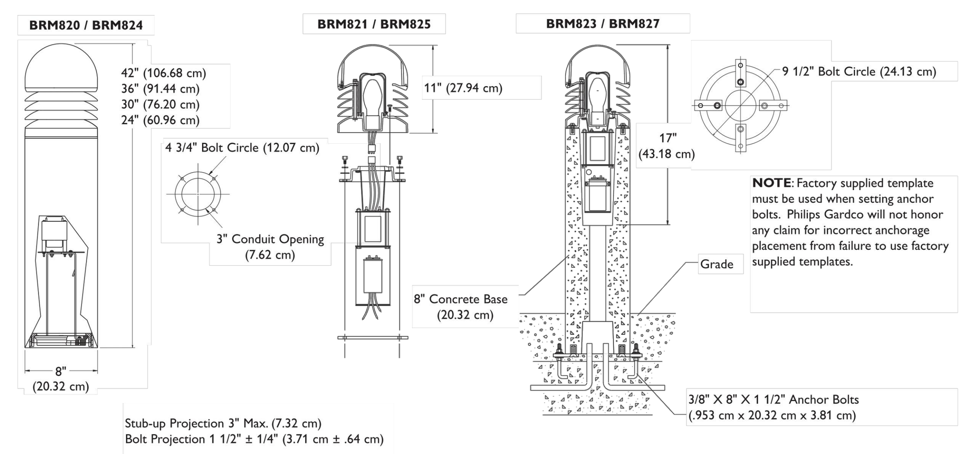
ELECTRICAL: Each high power factor HID ballast is the separate component type, capable of providing reliable lamp starting down to -20°F/-29°C. Fluorescent luminaires utilize electronic ballasts that are high power factor and designed for reliable lamp starting to 0°F/18°C. Smart fluorescent ballasts accept 26w, 32w and 42w in all voltages from 120 to 277, 50/60Hz. Sockets are high temperature PBT with brass contacts. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 150°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

LUMINAIRE FINISH: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured textured powdercoat finish

LABELS: All luminaires bear UL or CUL (where applicable) Wet Location labels.

WARRANTY: Philips Gardco luminaires feature a 5 year limited warranty. See Warranty Information on www.sitelighting.com for complete details and exclusions. Polycarbonate lenses carry a 1 year warranty only.

DIMENSIONS



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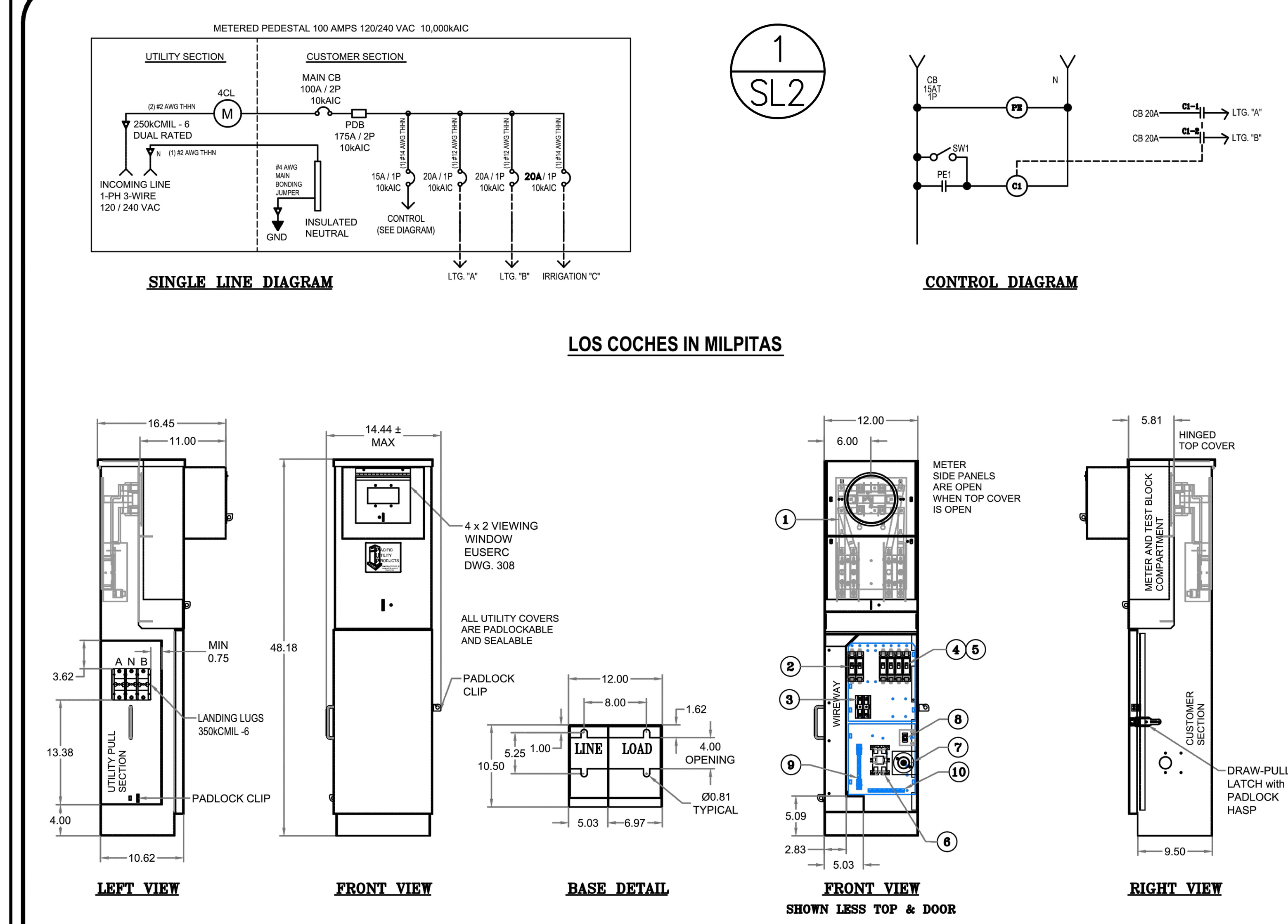
79115-35/0511

PHILIPS GARDCO



SPECIFICATIONS

* COMPLIES WITH EUSERC 308
* NEMA 3R CONSTRUCTION
* EXTERIOR MADE FROM 12GA. CORROSION-RESISTANT ZINC COATED STEEL AND INTERIOR 14GA. COLD ROLLED STEEL
* FACTORY WIRING 600 VOLT RATED COPPER
* COLOR SEAFOAM / LIGHT GREEN UNLESS OTHERWISE SPECIFIED
* POLYESTER POWDER-COATED FINISH EXCEEDS ASTM B-117 SPECIFICATIONS
* ALL EXTERIOR HINGES CONTINUOUS PIANO TYPE STAINLESS STEEL
* EXTERIOR NUTS, BOLTS, SCREWS ARE STAINLESS STEEL

PAGE 1 OF 1

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COMPONENT DIRECTORY
CAT. NO. USPA-M2100-100TB

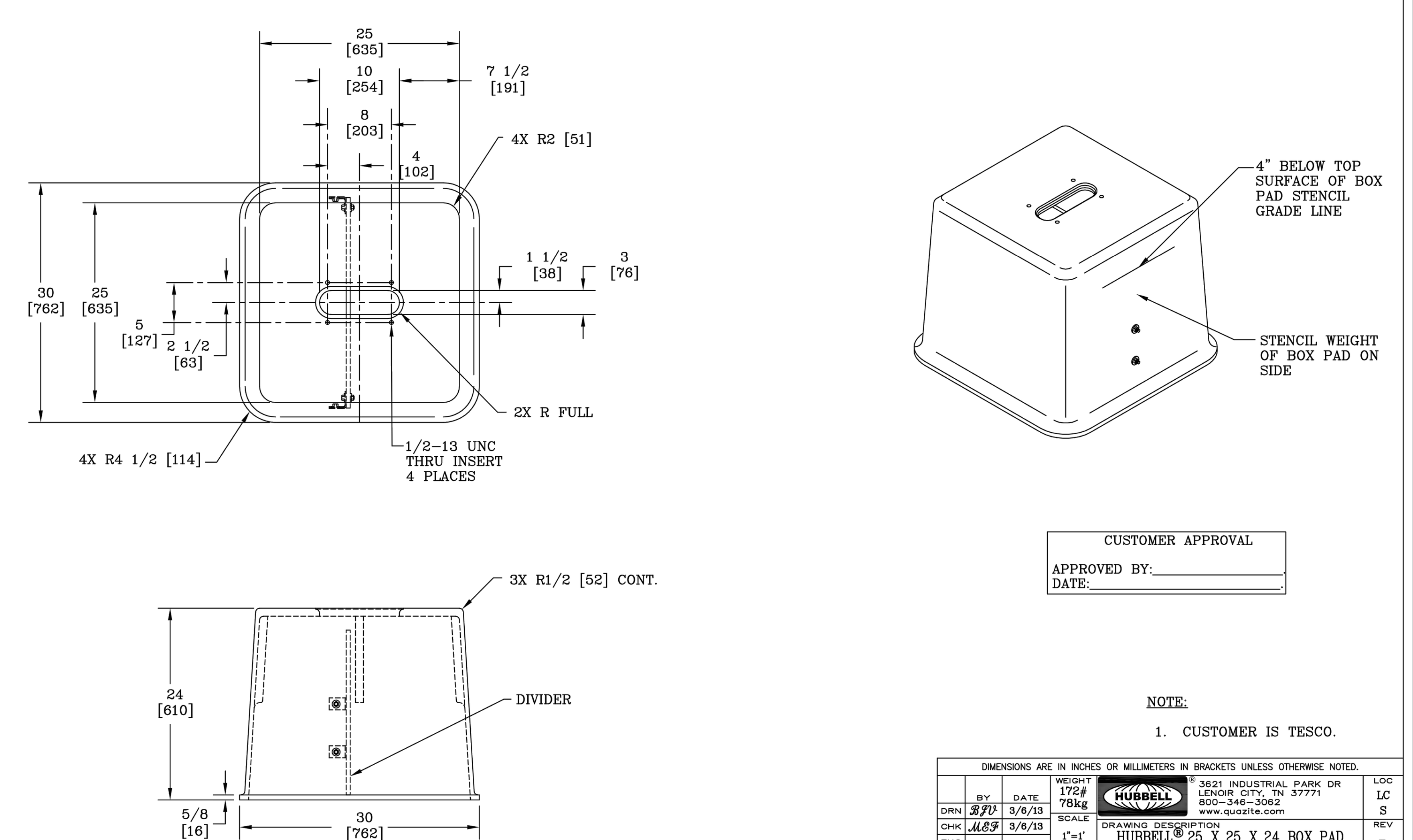
No.	120/240 VAC 1-PHASE 60HZ 3-WIRE
1	METER SOCKET 160A 4-JAW with TB
2	MAIN CB 100A 2P 120/240VAC 10kAIC
3	PDB 175A 2P 1 x 4 MARATHON 1422570
4	(2) CB 15A 1P 120/240VAC 10kAIC
5	(2) CB 20A 1P 120/240VAC 10kAIC
6	(1) CONTACTOR DP 30A 2P 120V COIL
7	PE RECEPTACLE TWIST LK COOPER
8	SWITCH TOGGLE SPST 20A 240VAC
9	INSULATED (ISOLATED) NEUTRAL
10	GROUND

SERVICE PEDESTAL

S.O. No.	QTY. =
DATE	17 OCTOBER, 2011
JOB NAME	–
DISTRIBUTOR	–

USP NON-RESIDENTIAL SERVICE PEDESTAL
0 - 200 AMPERES
0 - 600 VOLTS

PACIFIC UTILITY PRODUCTS
2430 RAILROAD ST.
CORONA CALIFORNIA 92880

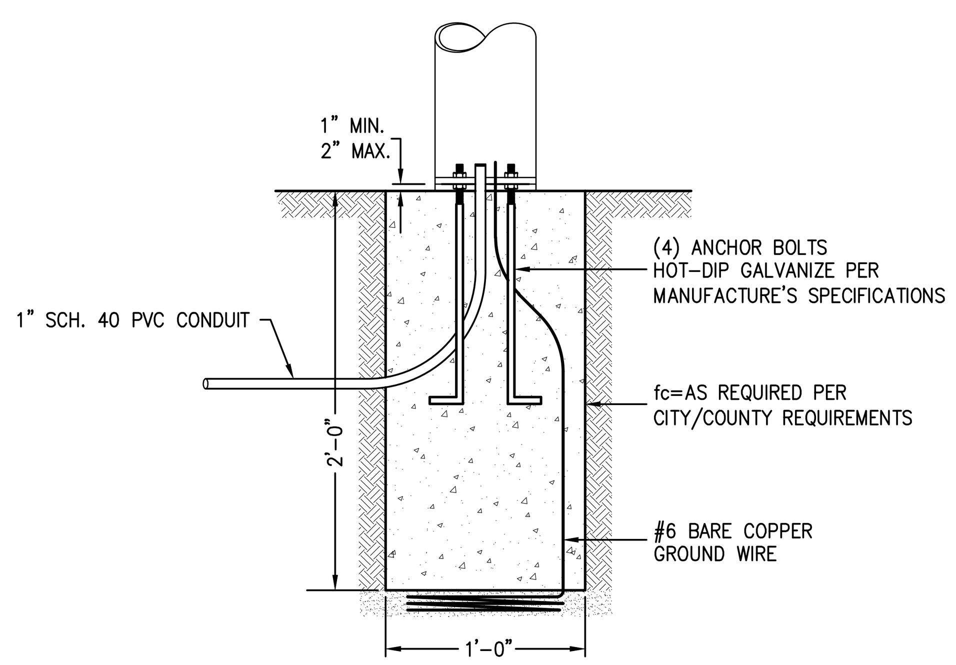


CUSTOMER APPROVAL
APPROVED BY:________________.
DATE:____________________.

NOTE:
1. CUSTOMER IS TESCO.

DIMENSIONS ARE IN INCHES OR MILLIMETERS IN BRACKETS UNLESS OTHERWISE NOTED.

	BY	DATE	WEIGHT 172# 78kg	HUBBELL® 3621 INDUSTRIAL PARK DR LENOIR CITY, TN 37771 800-346-3062 www.quazite.com	LOC LC S
DRN	BJV	3/6/13	SCALE 1"=1'	DRAWING DESCRIPTION HUBBELL® 25 X 25 X 24 BOX PAD W/THROAT AND MOUNTING FOR A TESCO 26-000 & DIVIDER	REV B
CHK	MEF	3/6/13			
ENG			SIZE B		4/13
APR					
APR					
PROJECT NUMBER 107577			SHEET 1 OF 1	DRAWING NUMBER PB25250310500	



BOLLARD FOUNDATION DETAIL

NOT TO SCALE

CAUTION:

CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

REGISTERED PROFESSIONAL ENGINEER DAVID SCOT CROWFOOT E11965 EXP. 9/30/15 ELECTRICAL STATE OF CALIFORNIA

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

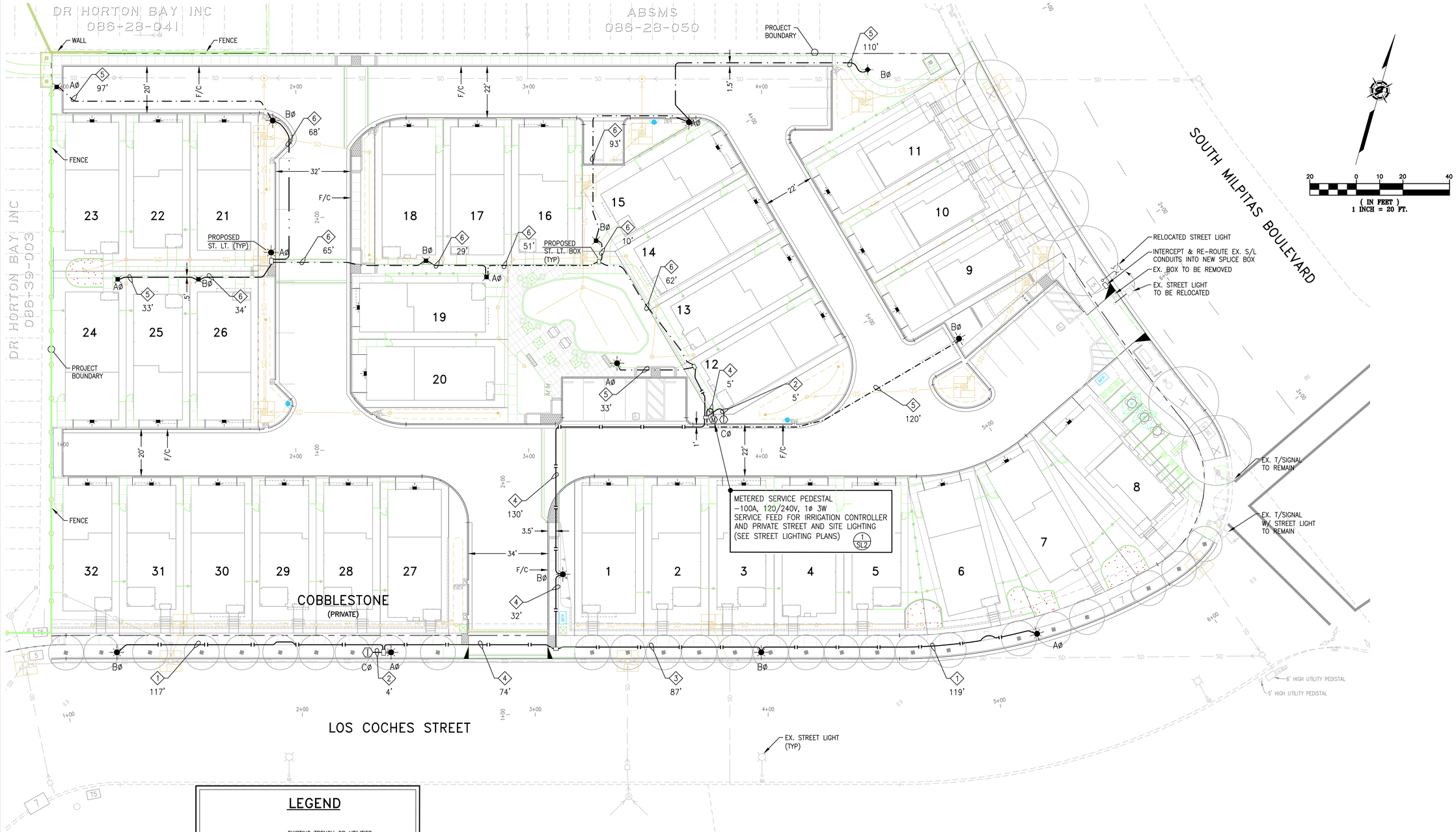
GIACALONE DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

STREET LIGHTING DETAIL SHEET

TRI-POINTE HOMES
COBBLESTONE

MILPITAS CALIFORNIA

PROJECT MANAGER: B. FULLINGTON
DRAWN BY: CCP
CHECKED BY: BDF
SCALE: AS SHOWN
JOB NUMBER: 13-130
DATE LAST MODIFIED: 2-07-14
SHEET SL2 OF 3 SHEETS



LEGEND

- EXISTING TRENCH OR UTILITIES
- PROPOSED 1 1/2" SCH. 40 PVC CONDUIT
- PROPOSED 1" SCH. 40 PVC CONDUIT
- AØ — METER CIRCUITS AØ–BØ–CØ
- EXISTING STREET LIGHT SPLICE BOX
- PROPOSED POST TOP STREET LIGHT (100W)
- PROPOSED BOLLARD LIGHT (70W)
- PROPOSED WALLPACK LIGHT (18LED)
- STREET LIGHT BOX (STATE TYPE 3 1/2)
- EXISTING STREET LIGHT RELOCATION
- METERED SERVICE PEDESTAL
- IRRIGATION CONTROLLER (BY OTHERS)
- FIRE HYDRANT (BY OTHERS)

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE		RUN NUMBER / NUMBER OF CONDUCTORS 1	2	3	4	5	6	
#4								
#6	GND							
#8		2		3	3	2	3	
	GND							
#10			2		2			
	GND	1		1	1	1	1	
#12								
	GND		1					
CONDUIT SIZE		1½"	1½"	1½"	1½"	1"	1"	

NOTE:
THE SITE LIGHTING SHALL BE DESIGNED AND INSTALLED IN SUCH A MANNER AS TO MINIMIZE LIGHT TRESPASS ONTO ADJACENT PROPERTIES.

CAUTION:
CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

ST. LIGHT (120V) AND IRRIG. CONTROLLER (120V) LOAD SUMMARY

CIRCUIT #	DESCRIPTION	AMP/POLE	LOAD TYPE	LAMP/QTY PER CIRCUIT	AMPS PER LAMP	AMPS PER CIRCUIT
#A	ST. LIGHT (100W) BOLLARD (70W) –120V)	20A/1 POLE	L	8	.83(SL) .58(B)	5.89
#B	ST. LIGHT (100W) BOLLARD (70W) –120V)	20A/1 POLE	L	9	.83(SL) .58(B)	6.47
#C	IRRIGATION CONTROLLER	15A/1 POLE	L	2	–	6.0

REGISTERED PROFESSIONAL ENGINEER
BRIAN DOUGLAS FOIT CROWFOOT
E11965
EXP. 9/30/15
ELECTRICAL
STATE OF CALIFORNIA

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE
DESIGN SERVICES, INC.
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925.467.1740 | WWW.GIACALONEDESIGN.COM

STREET LIGHTING SITE PLAN

TRI-POINTE HOMES
COBBLESTONE

MILPITAS CALIFORNIA

PROJECT MANAGER: B. FULLINGTON
DRAWN BY: CCP
CHECKED BY: BDF
SCALE: 1"=20'
JOB NUMBER: 13-130
DATE LAST MODIFIED: 2-07-14
SHEET SL3 OF 3 SHEETS

Luminaire Schedule												
Symbol	Qty	Label	Arrangement	No. Lamps	Lumens/Lamp	Total Lamp Lumens	LLF	LDD	LLD	BF	Description	Filename
	10	AA	SINGLE	1	8100	8100	0.720	0.900	0.800	1.000	PHILIPS LUMEC S56-100MH-ACDR-DSH3 @ 15.5'	S56-175MH-ACDR-
	7	BB	SINGLE	1	5500	5500	0.720	0.900	0.800	1.000	PHILIPS LUMEC BRM820-42"-70PSMH	BRM820-L-50P.ie

Luminaire Schedule LED											
Project: LOS COCHES CIRCLE - MILPITAS											
Symbol	Qty	Label	Arrangement	Lum. Watts	Lum. Lumens	LLF	LDD	LLD	BF	Description	Filename
	32	DD	SINGLE	18	1433	0.900	1.000	0.900	1.000	PHILIPS GARDCO 111L-4-20LA-NW @ 9' AFF	111L-4-20LA-NW.IES

Calculation Summary								
Project: LOS COCHES CIRCLE - MILPITAS								
Description	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	# Pts
LOS COCHES STREET	Illuminance	Fc	0.39	1.40	0.07	5.57	20.00	221
PATHWAYS	Illuminance	Fc	0.42	1.43	0.07	6.00	20.43	131
TYPICAL ALLEY DRIVES	Illuminance	Fc	1.20	2.66	0.37	3.24	7.19	37
TYPICAL ALLEY DRIVES 2	Illuminance	Fc	2.17	2.52	1.46	1.49	1.73	18
TYPICAL ROADWAY SECTION	Illuminance	Fc	0.88	2.24	0.19	4.63	11.79	156

ALL VALUES SHOWN ARE MAINTAINED HORIZONTAL FOOTCANDLES AT GRADE

* *

PHOTOMETRIC DATA USED AS INPUT FOR THESE CALCULATIONS IS BASED ON ESTABLISHED IES PROCEDURES AND PUBLISHED LAMP, RATINGS, FIELD PERFORMANCE WILL DEPEND ON ACTUAL LAMP, BALLAST, ELECTRICAL, AND SITE CHARACTERISTICS.

* *

Calculations have been performed according to IES standards and good practice. Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values.

Associated Lighting Representatives, Inc.

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REPORT FOR: GIACALONE DESIGN SERVICES; DAVID TIBBITTS
BY: APPLICATIONS ENGINEERING; RAMON ZAPATA
SALES REPRESENTATIVE: ALR; JOHN BENSON

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AGI (C) 1999-2013 LIGHTING ANALYSTS, INC.
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PROJECT DESCRIPTION

COBBLESTONE
MILPITAS

DRAWING NO. / INPUT FILE
11472BEN-R3.DWG / 11472BEN-R3.A32

SCALE	SHEET	DATE	REV
1" = 30'	1 OF 1	02.03.2014	3