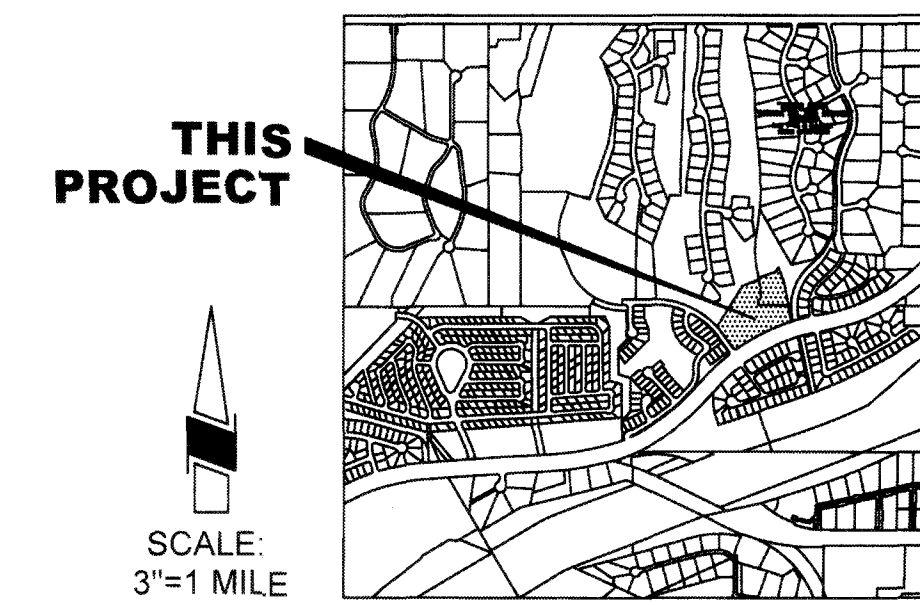


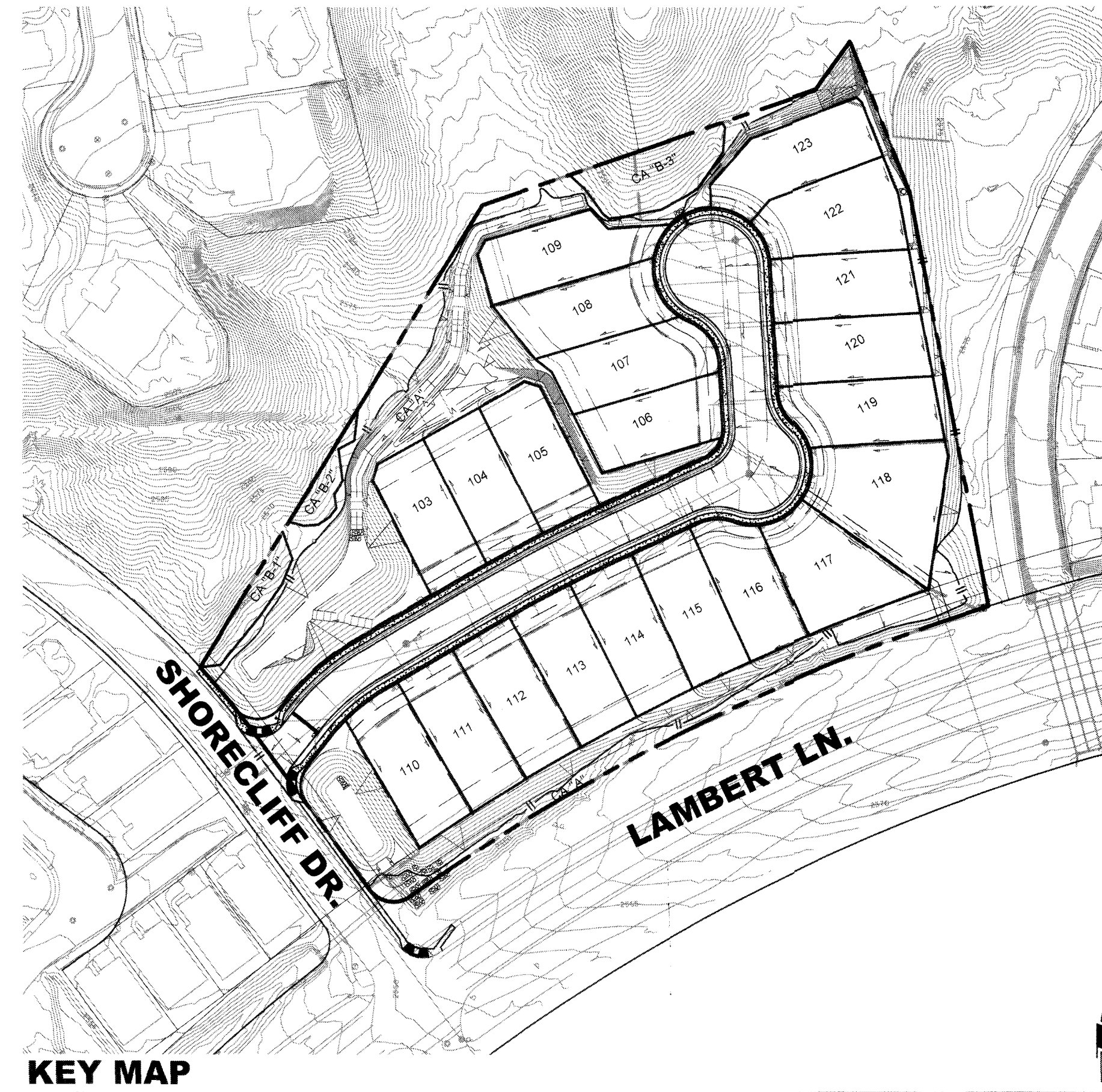
RAINWATER HARVESTING PLAN FOR: RIVER'S EDGE LOTS 103-123 1901060



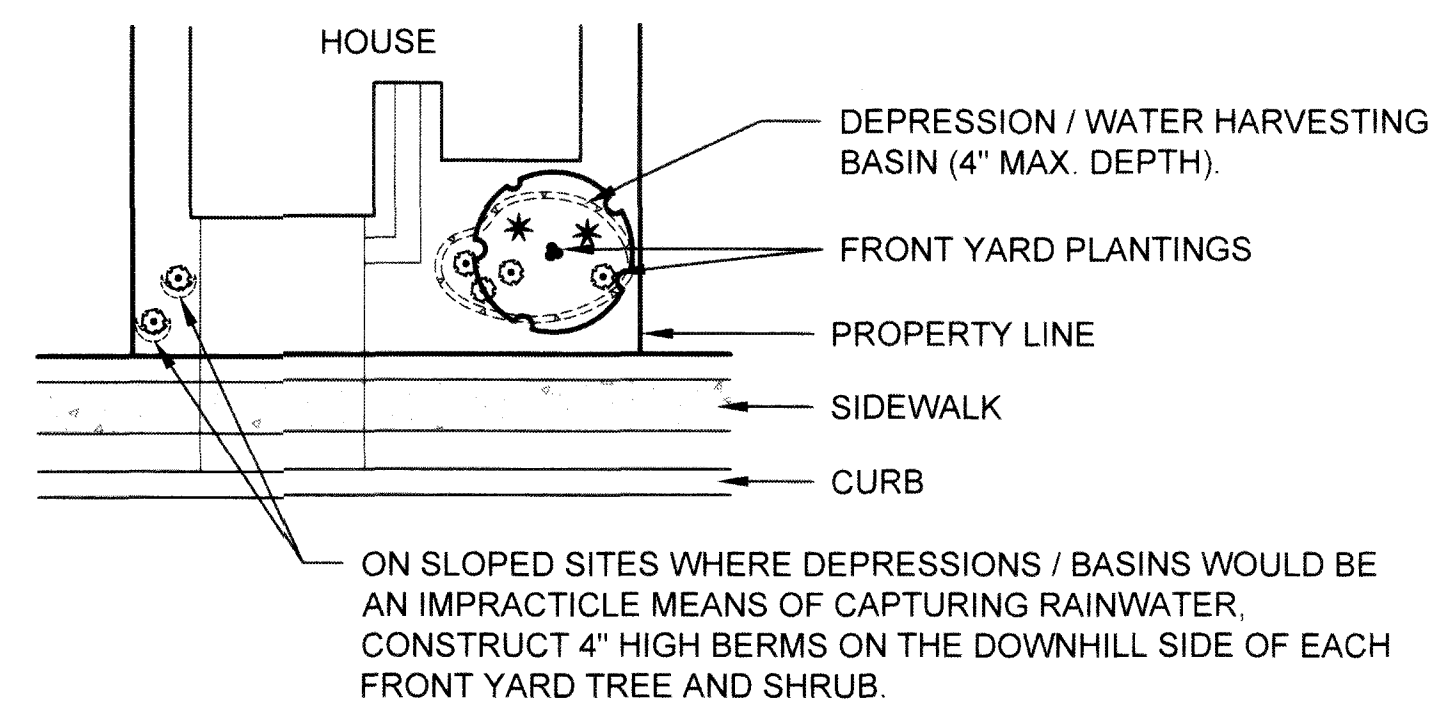
LOCATION MAP
A PORTION OF SECTION 12, T. 11 S., R. 13 E.
G & SRM TOWN OF ORO VALLEY,
PIMA COUNTY, ARIZONA

RAINWATER HARVESTING GENERAL NOTES

- TOTAL AREA OF ALL NEW IMPERVIOUS SURFACES INCLUDING PAVEMENTS, SIDEWALKS, HARDSCAPE AREAS AND BUILDINGS IS: 119,000 ± SQ. FT. (ASSUMED MAXIMUM BASED ON BUILDING SETBACKS)
- TOTAL VOLUME OF RAINWATER HARVESTING PROVIDED IS: 9,049 CU. FT. ± (DOES NOT INCLUDE FRONT YARD AREAS.)
- RAINWATER HARVESTING MEASURES EMPLOYED FOR THIS DEVELOPMENT CONSIST OF THE FOLLOWING:
 - PASSIVE RAINWATER HARVESTING BASINS IN FRONT YARDS
 - PASSIVE RAINWATER HARVESTING BASINS IN COMMON AREAS WHERE POSSIBLE BASED ON GRADING DESIGN
 - PASSIVE RAINWATER HARVESTING IN DETENTION BASIN
- ALL RAINWATER HARVESTING MEASURES SHOWN ON THIS PLAN SHALL BE INTEGRATED INTO BOTH THE LANDSCAPE INSTALLATION AS WELL AS THE SITE GRADING CONSTRUCTION.
- ONLY THE LOT GRADING SCHEME(S) IDENTIFIED ON THE APPROVED GRADING PLAN SHALL BE OFFERED TO THE INDIVIDUAL HOME BUYER FOR EACH LOT LISTED. PER THE FINAL SITE PLAN SUBMITTED CONCURRENTLY WITH THIS PLAN, PROPOSED LOT GRADING SCHEMES ARE AS FOLLOWS:
LOTS 103-114 - TYPE 'A' (FRONT DRAINING)
LOT 115-123 - TYPE 'C' (REAR DRAINING)
- FOR LOTS WITH FULLY GRADED FRONT YARDS, CATCHMENT AREAS TO UTILIZE RAINWATER MUST BE ESTABLISHED FOR PLANT USE. AT A MINIMUM, DEPRESSIONS AND/OR WELLS MUST BE ESTABLISHED FOR ALL TREES.
- THIS PROJECT IS DESIGNED TO COMPLY WITH THE REQUIREMENTS OF ZONING CODE SECTION 27.6.D.4.c THROUGH THE USE OF PASSIVE WATER HARVESTING BASINS IN COMMON AREAS AND FRONT YARDS. SITE CHARACTERISTICS PREVENT EIGHTY (80) PERCENT OF THE AREA WITHIN EACH LINEAR BUFFER YARD SEGMENT AND WITHIN COMMON AREAS TO BE GRADED TO A MINIMUM DEPTH OF FOUR (4) INCHES TO ENABLE COLLECTION OF RAINWATER, AS NOTED ON SHEET 2.



KEY MAP



TYPICAL FRONT YARD WATER HARVESTING

SYMBOL LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- - - BUILDING SETBACK
- - - EASEMENT
- ∇ TOP/TOE OF SLOPE
- || GRADING LIMIT
- - - WATERSHED BOUNDARY
- ⊙ PROPOSED SEWER LINE AND MANHOLE
- PROPOSED SEWER LINE AND CLEANOUT
- ⊗ PROPOSED WATER LINE AND VALVE
- ⊕ PROPOSED FIRE HYDRANT
- PROPOSED WATER METER

PROJECT DIRECTORY:

OWNER/DEVELOPER

MELCOR DEVELOPMENTS ARIZONA, INC.
6930 E CHAUNCEY LANE, SUITE 153
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PHONE: 480-699-4687
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LANDSCAPE ARCHITECT

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CIVIL ENGINEER

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EMAIL: CPATTON@RICKENGINEERING.COM

SHEET INDEX

SHT.	#	SHEET DESCRIPTION
RW-01	1	COVER SHEET
RW-02	2	RAINWATER HARVESTING PLAN

APPROVAL

Pat
TOWN ENGINEER 1-17-2020 DATE

BoVella
PLANNING AND ZONING ADMINISTRATOR 1-21-2020 DATE

RIVERS EDGE (MELCOR) PLANNED AREA DEVELOPMENT #7
OV1801921
OV1600944, OV12-03-20

RW-01

NO.	BY	DATE	REVISION	APPR DATE

	DESIGNED BY: MEF	DATE: 12/19	CHECKED BY: MEF	DATE: 12/19
	DRAWN BY: MEF	DATE: 12/19	APPROVED BY: MEF	DATE: 12/19

DESIGNED BY: MEF	DATE: 12/19
DRAWN BY: MEF	DATE: 12/19

	3945 EAST FORT LOWELL ROAD, SUITE 111 TUCSON, AZ 85712 520.795.1000 (FAX) 520.322.6956 Phoenix • San Diego • Sacramento • Riverside • Orange • San Luis Obispo • Berkeley
RICK ENGINEERING COMPANY TUCSON	3945 EAST FORT LOWELL ROAD, SUITE 111 TUCSON, AZ 85712 CONTACT PERSON: MARK FELLINGER PHONE: 520-795-1000 E-MAIL: mfellinger@rickengineering.com

RAINWATER HARVESTING PLAN FOR: RIVER'S EDGE LOTS 103-123 LOTS 103, 103 AND COMMON AREAS "A", "B-1", "B-2", BEING A PORTION OF THE SOUTHEAST QUARTER OF SECTION 12, TOWNSHIP 12 SOUTH, RANGE 13 EAST, GILA & SALT RIVER MERIDIAN, TOWN OF ORO VALLEY, PIMA COUNTY, ARIZONA	1901060 HORIZ : 1" = 30' VERT : N/A
SHEET 1 OF 2	PERMIT #2402455



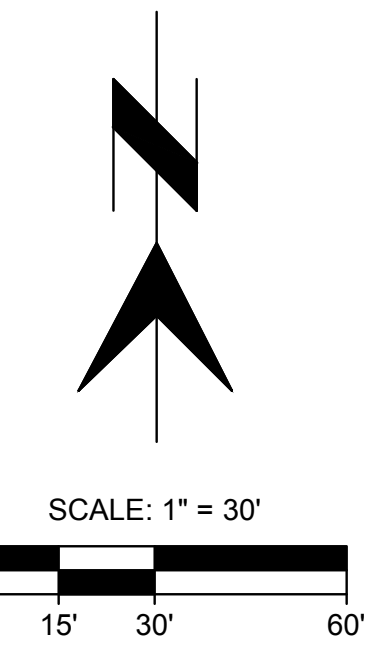


NO RAINWATER HARVESTING BASIN IN LANDSCAPE BUFFER DUE TO SLOPE CONDITION.

DETENTION BASIN #1
VOLUME DETAINED: 0.2 AC-FT.
WSEL = 2560.7
BASIN BOTTOM = 2558.0

NO RAINWATER HARVESTING BASIN IN LANDSCAPE BUFFER DUE TO SLOPE CONDITION.

RAINWATER HARVESTING BASIN #WH-1
AREA: 1,020 SQ. FT. ±
DEPTH: 4"
VOLUME: 337 CU. FT. ±



SCALE: 1" = 30'

OV1801921
OV1600944, OV12-03-20
RIVERS EDGE (MELCOR) PLANNED AREA DEVELOPMENT #7

RW-02

RAINWATER HARVESTING PLAN FOR:
RIVERS' EDGE
LOTS 103-123
LOTS 103-123 AND COMMON AREAS "A" & "B-1 - B-3"
BEING A PORTION OF THE SOUTHEAST QUARTER OF SECTION 12,
TOWNSHIP 12 SOUTH, RANGE 13 EAST, GILA & SALT RIVER MERIDIAN,
TOWN OF ORO VALLEY, PIMA COUNTY, ARIZONA.

1901060
HORIZ : 1" = 30'
VERT : N/A

SHEET 2 OF 2

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M. Fellingner

NO.	BY	DATE	REVISION	APPR	DATE