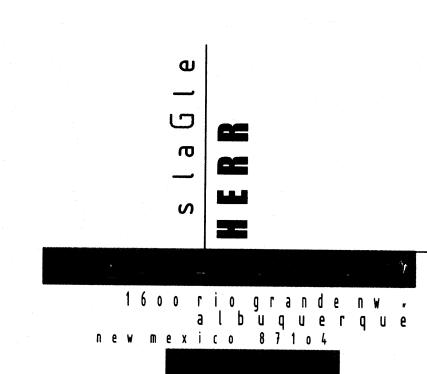


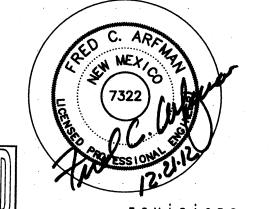
PROJECT DATA VICINITY MAP R-16 LEGAL DESCRIPTION: A PORTION OF LOT A5, MESA DEL SOL INNOVATION PARK FLOOD ZONE: PER BERNALILLO COUNTY FIRM MAP PANEL #35001C0555H, WITH MAP REVISION DATE: AUGUST 16, 2012, THE SITE IS LOCATED WITHIN FLOODZONE 'X' DESIGNATED AS INNOVATION PC PARK AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN. ENGINEER: FRED. C. ARFMAN, P.E. ISAACSON & ARFMAN, P.A. 128 MONROE ST NE, ABQ. NM 87108 PARK II PHONE: (505) 268-8828 MESA DEL SURVEYOR: BOHANNAN HUSTON COURTYARD 1, 7500 JEFFERSON ST. NE ALBUQUERQUE, NM 87104 PHONE: (505) 823-1000 BENCHMARK: THE PROJECT BENCHMARK IS A FOUND ALUMINUM CAP "5\_R15", WITH PROJECT COORDINATES OF N=1,452,649.49, E=1,529,579.45, ELEV.=5306.67. THE PROJECT BENCHMARK IS LOCATED AT THE CONRER OF BOBBY FOSTER RD AND NOVATION PARK UNIVERSITY BLVD. SE. 1"=750'± R-16-Z **KEYED NOTES** 

> swimming pool albuquerque, n.m.



GRADING AND DRAINAGE PLAN

fax 5052460437



PROPOSED FINISH FLOOR ELEVATION

DEC 2 6 2012 LAND DEVELOPMENT SECTION

1954 CG-101.dwg Dec 21,2012

revisions:

ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 www.iacivil.com

date: 12/5/12 sheet:

**LEGEND** 

MASTER PLANNED DESIGN CONTOUR

MASTER PLANNED DESIGN ELEVATION

PROPOSED ROOF DRAIN LOCATION

PROPOSED CONTOUR

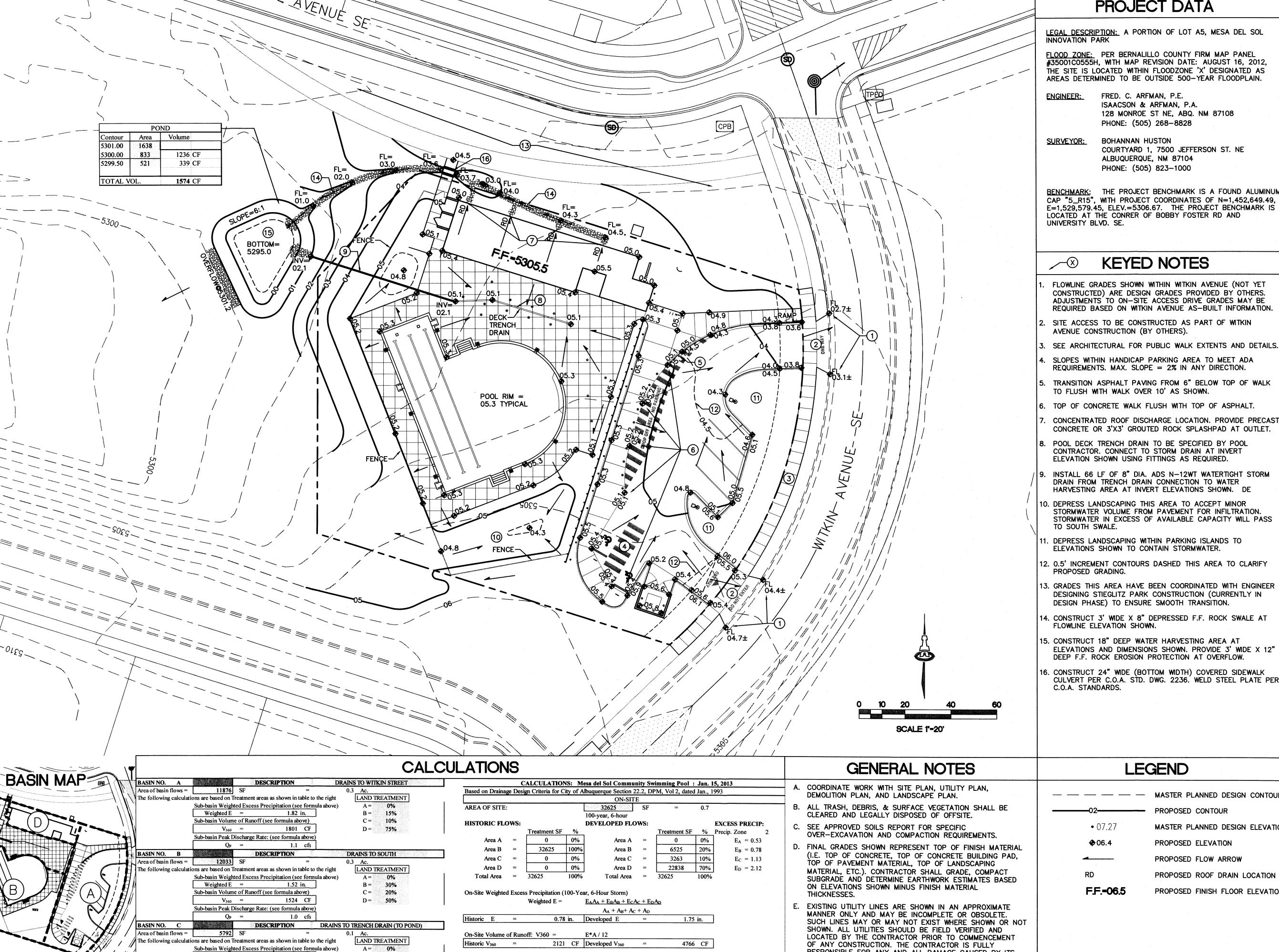
PROPOSED ELEVATION

PROPOSED FLOW ARROW

WEST PER THE APPROVED MASTER DRAINAGE PLAN FOR MESA DEL SOL.

LANDSCAPING PHASE. THIS WILL NOT BE INCLUDED IN

ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY.



On-Site Peak Discharge Rate:  $Qp = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D / 43,560$ 

D) = 1362 CF. TOTAL POND PROVIDED = 1574 CF.

 $Q_{pC} = 3.14$ 

3.0 CFS

1.7 CFS Developed  $Q_p =$ 

TOTAL VOLUME DRAINING TO PROPOSED WATER HARVESTING BASIN (BASINS C AND

For Precipitation Zone 2

 $Q_{pA} = 1.56$ 

B = 20%

C = 10%

LAND TREATMENT

A = 0%

B = 0%

C = 0%

D = 100%

70%

D =

SURFACE DRAINS TO POND

 $V_{360} =$ 

The following calculations are based on Treatment areas as shown in table to the right

 $V_{360} =$ 

2923 SF

Weighted E =

BASIN NO. D

Area of basin flows =

ub-basin Peak Discharge Rate: (see formula above)

Sub-basin Volume of Runoff (see formula above)

Sub-basin Peak Discharge Rate: (see formula above)

DESCRIPTION

Sub-basin Weighted Excess Precipitation (see formula above)

846 CF

2.12 in.

516 CF

PROJECT DATA VICINITY MAP R-16 LEGAL DESCRIPTION: A PORTION OF LOT A5, MESA DEL SOL INNOVATION PARK FLOOD ZONE: PER BERNALILLO COUNTY FIRM MAP PANEL #35001C0555H, WITH MAP REVISION DATE: AUGUST 16, 2012, INNOVATION THE SITE IS LOCATED WITHIN FLOODZONE 'X' DESIGNATED AS INNOVATION PC PARK AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN. FRED. C. ARFMAN, P.E. ISAACSON & ARFMAN, P.A. 128 MONROE ST NE, ABQ. NM 87108 MESA DEL PARK II PHONE: (505) 268-8828 SURVEYOR: BOHANNAN HUSTON COURTYARD 1, 7500 JEFFERSON ST. NE ALBUQUERQUE, NM 87104 PHONE: (505) 823-1000 BENCHMARK: THE PROJECT BENCHMARK IS A FOUND ALUMINUM CAP "5\_R15", WITH PROJECT COORDINATES OF N=1,452,649.49, E=1,529,579.45, ELEV.=5306.67. THE PROJECT BENCHMARK IS LOCATED AT THE CONRER OF BOBBY FOSTER RD AND NOVATION PARK UNIVERSITY BLVD. SE. SITE 1"=750'± R-16-Z **KEYED NOTES** 

SEE ARCHITECTURAL FOR PUBLIC WALK EXTENTS AND DETAILS. SLOPES WITHIN HANDICAP PARKING AREA TO MEET ADA REQUIREMENTS. MAX. SLOPE = 2% IN ANY DIRECTION.



swim, my niotoy

ELEVATIONS SHOWN TO CONTAIN STORMWATER.

12. 0.5' INCREMENT CONTOURS DASHED THIS AREA TO CLARIFY PROPOSED GRADING.

13. GRADES THIS AREA HAVE BEEN COORDINATED WITH ENGINEER DESIGNING STIEGLITZ PARK CONSTRUCTION (CURRENTLY IN DESIGN PHASE) TO ENSURE SMOOTH TRANSITION.

4. CONSTRUCT 3' WIDE X 8" DEPRESSED F.F. ROCK SWALE AT FLOWLINE ELEVATION SHOWN.

15. CONSTRUCT 18" DEEP WATER HARVESTING AREA AT ELEVATIONS AND DIMENSIONS SHOWN. PROVIDE 3' WIDE X 12" DEEP F.F. ROCK EROSION PROTECTION AT OVERFLOW.

6. CONSTRUCT 24" WIDE (BOTTOM WIDTH) COVERED SIDEWALK CULVERT PER C.O.A. STD. DWG. 2236. WELD STEEL PLATE PER C.O.A. STANDARDS.

LEGEND

a 1600 riogrande nw albuquerque new mexico 87104 fax 505 246 0437

GRADING AND DRAINAGE PLAN

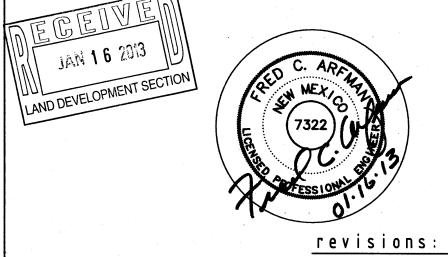
MASTER PLANNED DESIGN CONTOUR PROPOSED CONTOUR

• 07.27 MASTER PLANNED DESIGN ELEVATION

PROPOSED ELEVATION **\$**06.4

PROPOSED FLOW ARROW PROPOSED ROOF DRAIN LOCATION

F.F.=06.5 PROPOSED FINISH FLOOR ELEVATION



ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 www.iacivil.com 1954 CG-101.dwg Jan 15,2013

JAN 16 2013

date: 12/5/12 sheet:

RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY

F. ALL NEW PAVEMENT SURFACES SHALL BE CONSTRUCTED WITH POSITIVE SLOPE AWAY FROM BUILDINGS AND POSITIVE SLOPE TOWARD EXISTING AND/OR PROPOSED DRAINAGE PATHS. WHERE NEW GRADES ARE SHOWN AS 'MATCH' OR '±', TRANSITIONS TO EXISTING SHALL BE SMOOTH AND LEVEL.

G. 6" AVG. DIA. FRACTURED FACE ROCK (F.F. ROCK)
PERMANENT EROSION CONTROL IS TO BE INSTALLED DURING LANDSCAPING PHASE. THIS WILL NOT BE INCLUDED IN ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY.