

LEGEND

| | |
|----------------------|--|
| --- | PROPERTY LINE |
| - - - - | EXISTING CONTOUR |
| + 2050 | EXISTING SPOT ELEVATION |
| → | EXISTING FLOW ARROW, (TYP) |
| TC 40.50 FL 40.00 | EXISTING SPOT ELEVATION |
| --- | EXISTING BASIN BOUNDARY |
| (A) | EXISTING DRAINAGE BASIN DESIGNATION |
| 00.00 | PROPOSED TOP OF CURB ELEVATION PROPOSED FLOW LINE ELEVATION |
| 00.00 TW 00.00 TG | PROPOSED TOP OF WALL ELEVATION PROPOSED TOP OF GROUND ELEVATION |
| 00.00 TD 00.00 TS | PROPOSED TOP OF DOCK ELEVATION PROPOSED TOP OF SIDEWALK ELEVATION |
| 00.00 | PROPOSED SPOT ELEVATION |
| 1.0% | PROPOSED FLOW |
| ▭ | PROPOSED INLET |
| --- | PROPOSED STORM DRAIN PIPE |
| --- | PROPOSED SWALE |
| ▶ | PROPOSED 3:1 SLOPE |
| --- | PROPOSED WALL/STEM WALL |

DRAINAGE CALCULATIONS

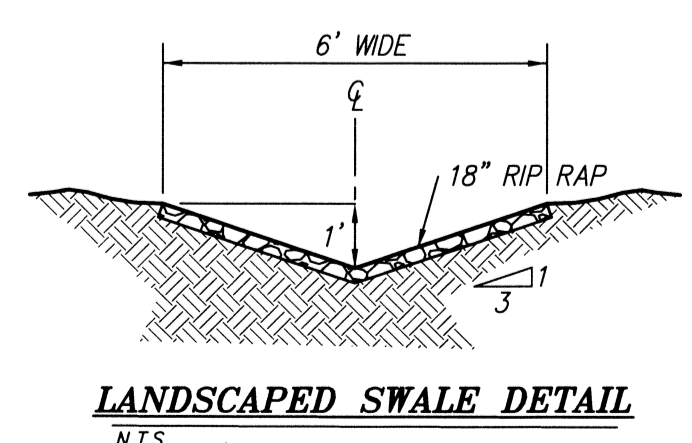
THE INTENT OF THIS PLAN IS TO DETAIN THE 100 YEAR - 24 HOUR STORM.

LAND TREATMENT B = 32%
 LAND TREATMENT D = 68%
 P(100YR - 24HR) = 2.79 IN.
 Q_{max} = 5.44 cfs
 V_{max} = 12,084 cf

FIRST FLUSH VOL. = 1,148 CF
 LOWER POND BOTTOM 0.40"

THIS SITE IS NOT IN THE 100 YEAR FLOOD PLAIN. THERE ARE OFF-SITE FLOWS THAT ENTER THIS SITE FROM THE PROPERTY TO THE EAST. THE FLOW FOR THIS SITE PRIOR TO ANY DEVELOPMENT IS 4.36 cfs. THE FLOW FOR THIS SITE AFTER THIS THIRD PHASE OF DEVELOPMENT IS 5.58 cfs.

THE DETENTION POND IS DESIGNED TO RELEASE LESS THAN THE PRE-DEVELOPMENT RATE (5.56 cfs). THE ACTUAL MAXIMUM RATE OF RELEASE IS 5.45 cfs. THE NECESSARY VOLUME OF THE POND IS 0.2774 ac-ft. THE ACTUAL VOLUME OF THE POND IS 0.2916 ac-ft. THE MAXIMUM WATER SURFACE ELEVATION IS 33.80 ft.



- NOTES:**
- ALL CONCRETE TO BE 3000 psi @ 28 DAYS.
 - SEE ARCHITECTURAL SITE PLAN FOR TRUE DIMENSIONS.
 - CITY OF ALBUQUERQUE STANDARD DETAILS SHALL BE USED WHEN APPLICABLE.
 - OFFSITE FLOWS ENTER THE PROPERTY FROM PAST PHASES.
 - MATCH EXISTING PAVEMENT WITH NEW PAVEMENT.



HELLER DISTRIBUTION-PHASE 3
CONCEPTUAL
GRADING & DRAINAGE PLAN

dmg MARK GOODWIN & ASSOCIATES, P.A.
 CONSULTING ENGINEERS
 P.O. BOX 90606
 ALBUQUERQUE, NEW MEXICO 87199
 (505)828-2200, FAX (505)797-9539

| | | | |
|-----------------|---------------|--------------|---------------|
| Designed: DMG | Drawn: MJS | Checked: DMG | Sheet C1 of 2 |
| Scale: 1" = 20' | Date: 8/22/14 | Job: A14032 | |