

EXISTING CONDITIONS SCALE: 1"=100'

TABLE 2 TABLE 1 MESA DEL SOL EMPLOYMENT CENTER - FIRE HOUSE - DEVELOPED HYDRAULIC CALCULATIONS LEED CALCULATIONS Ultimate Development Conditions Basin Data Table This table is based on the DPM Section 22.2, Zone: 2 Q(100) WT E_{100YR} V(100)₃₆₀ V(100)_{10day} SUB-BASIN Q(100) WT E_{2YR} Area Area **Land Treatment Percentages** V(2)1440 (cfs/ac.) (cfs) (inches) (CF) (CF) (inches) (SQ. FT) (AC.) ABCD (CF) (CF) 485 BASINA 11317 0.0% 65.0% | 35.0% | 0.0% 4356 0.10 0.0% 0.0% 23.0% 4.34 0.43 1.89 1134 0.64 233 345 **BASIN B** 77.0% 2254 7932 0.0% 12.0% 4.51 0.82 2.00 1323 0.71 471 704 BASINC 0.18 0.0% 88.0% BASIN D 8327 0.19 0.0% 0.0% 95.0% 3.22 0.62 1.18 819 874 0.18 126 140 5.0% 5593 0.13 0.0% 0.0% 0.0% 100.0% 4.70 0.60 2.12 1734 0.79 368 555 BASINE 0.02 0.0% 0.0% 0.0% 4.70 0.07 2.12 120 0.79 45 67 676 100.0% **BASINF** 15192 0.35 0.0% 0.0% 92.0% 4.58 1.60 2.04 2584 4447 0.74 935 1401 **BASIN G** 8.0% 860 1509 0.79 **BASINH** 4869 0.11 0.0% 0.0% 0.0% 100.0% 4.70 0.53 2.12 321 483 BASINI 2830 0.06 0.0% 0.0% | 91.0% 9.0% 3.28 0.21 1.22 287 0.21 49 57 968 361 5478 0.13 0.0% 0.0% 0.0% 100.0% 4.70 0.59 2.12 1698 0.79 543 **BASIN J** 104 **BASINK** 8329 0.19 | 0.0% | 0.0% | 100.0% 0.0% 3.14 0.60 1.13 784 0.15 104 1.70 585 903 0.52 258 **BASIN L** 4117 0.09 0.0% 0.0% | 42.0% 58.0% 4.04 0.38 179 53394.82 1.23 7.41 11396.42 | 17789.44 3544.92 5143.17 2.60 | 100.0% | 0.0% | 0.0% | 0.0% 4.05 0.53 5000 5000 1/2 WATSON DR. 7597 0.17 0.0% 10.0% 0.0% 90.0% 4.46 0.78 1.99 1257 2169

		WEIR	COEFFICIENT =	= 2.600 X-SEC	TION DISTANC	E = 0.100	
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0.: 0.: 0.	100 200 300 400 500	0.100 0.200 0.300 0.400 0.500	0.240 0.560 0.960 1.440 2.000	0.191 0.614 1.264 2.157 3.309	0.794 1.096 1.317 1.498 1.654	2.800 3.600 4.400 5.200 6.000	

	WEIF	R COEFFICIENT =	2.600 X-SE	CTION DISTANC	CE = 0.100	
POINT I 1.0 2.0	OIST ELEV 0.0 0.0 2.0 -0.5	POINT DIS 3.0 6. 4.0 8		POINT	DIST ELEV	
WSEL FT.	DEPTH INC FT.	FLOW AREA SQ.FT.	FLOW RATE (CFS)	FLOW VEL (FPS)	TOPWID PLUS OBSTRUCTIONS	
0.100 0.200 0.300 0.400 0.500	0 0.200 0 0.300 0 0.400	0.440 0.960 1.560 2.240 3.000	0.355 1.079 2.119 3.472 5.147	0.807 1.124 1.358 1.550 1.716	4.800 5.600 6.400 7.200 8.000	

TOTAL 16396.22 24958.26

*S CALCULATE BASIN 2A COMPUTE NM HYD PROPOSED - 1 .00283 7.43 .260 1.72086 1.500 4.103 PER IMP= 60.00 *S OUTLET WORKS = 2-24" SIDEWALK CULVERTS @ 1.83CFS/CULVERT								
HYDROGRAPH ID 10 AREA DISCHARGE VOLUME RUNOFF PEAK PER COMMAND IDENTIFICATION NO. NO. (SQ MI) (CFS) (AC-FT) (INCHES) (HOURS) ACRE NOTATION *S AHYMO FILE FOR MESA DEL SOL DRAINAGE *S DEVELOPED CONDITIONS, 24HR, 100YR. *S RAINFALL TYPE= 1 RAIN6= 2.3 *S CALCULATE BASIN 2A COMPUTE NM HYD PROPOSED - 1 .00283 7.43 .260 1.72086 1.500 4.103 PER IMP= 60.00 *S OUTLET WORKS = 2-24" SIDEWALK CULVERTS @ 1.83CFS/CULVERT			- VERSION		RUN D SER NO.= Al	ATE (MON/DATE) HYMO-S-970	AY/YR) =1(2c1BohanHu)/20/20 -AH
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*S DEVELOPED CONDITIONS, 24HR, 100YR. *S RAINFALL TYPE= 1 *S CALCULATE BASIN 2A COMPUTE NM HYD PROPOSED - 1 .00283 7.43 .260 1.72086 1.500 4.103 PER IMP= 60.00 *S OUTLET WORKS = 2-24" SIDEWALK CULVERTS @ 1.83CFS/CULVERT							NOTATION	
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			.260	1.72086	1.500	4.103 PER IM	r= 60.00	
DUILLE DECEDAND DUMIN 1 11 NUMBER 127	*S OUTLET WORKS = 2-24" SIDEWALK CULVERTS @ 1.83CFS/ ROUTE RESERVOIR POND 1 11 .00283	CULVERT 2.27	.255	1.69098	1.850	1.253 AC-FT	= .157	

PROPOSED CONDITIONS SCALE: 1"=50'

LEGEND PROPERTY LINE ⊕ 65.25 EXISTING GROUND SPOT ELEVATION EXISITNG ELECTRICAL POLE PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE INV=INVERT ELEVATION S=2.0% PROPOSED DIRECTION OF FLOW ~~~~~ WATER BLOCK PROPOSED INTER CONTOURS PROPOSED CURB & GUTTER EXISTING STORM DRAIN MANHOLE BASIN BOUNDARY LINE

LOCATION MAP ZONE ATLAS INDEX MAP R-16 NOT TO SCALE

DRAINAGE MANAGEMENT PLAN

NORTH AND EAST. THE PROJECT WILL INCLUDE ONE BUILDING WITH A TRUCK BAY ALONG WITH PARKING AND LANDSCAPED AREAS. WITH THIS SUBMITTAL WE ARE SEEKING HYDROLOGY APPROVAL FOR BUILDING PERMIT

II. EXISTING HYDROLOGIC CONDITIONS

THE SITE IS APPROXIMATELY 1.8 ACRES AND IS CURRENTLY UNDEVELOPED. THE LAND SLOPES 0.5% TO 1.0% FROM THE WEST TO THE SOUTHEAST TOWARD EXISTING TEMPORARY RETENTION POND T CREATED WITH THE ROADWAY ROUGH GRADING PROJECT (SEE EXISTING CONDITIONS).

III. PROPOSED HYDROLOGIC CONDITIONS

THE DRAINAGE ANALYSIS OF THIS SITE FOLLOWS THE GUIDELINES AND FRAMEWORK OF THE DRAINAGE AREA TWO (DA2) DRAINAGE MANAGEMENT PLAN (DMP) (COA HYDRO FILE R16/DA2, ENGINEER STAMP DATE 5-19-2008) IN WHICH THIS SITE LIES WITHIN THE NORTHEAST CORNER OF BASIN 2M. THE DA2-DMP SHOWS ALL OF BASIN 2M DRAINING DIRECTLY TO THE DRAINAGE AREA 2 REGIONAL RETENTION POND LOCATED TO THE WEST. HOWEVER, UPON COMPLETION OF WATSON DRIVE AND SAGAN AVENUE STORM DRAIN, THE FIRE HOUSE SITE WILL DRAIN DIRECTLY TO WATSON DRIVE WHERE IT WILL BE COLLECTED WITHIN THE STORM DRAIN SYSTEM WHICH EVENTUALLY OUTFALLS INTO THE REGIONAL RETENTION POND. (NOTE: WE WILL REVISE THE DA2-DMP SHOWING THIS NEW CONFIGURATION.)

THE FIRE HOUSE SITE WAS DIVIDED INTO MULTIPLE BASINS WHICH DRAIN BOTH OVERLAND AND THROUGH A SYSTEM OF SWALES, SIDEWALK CULVERTS, AND CURB OPENINGS. THE SWALES PROVIDE SMALL WATER HARVESTING AREAS THAT CONVEY DRAINAGE TO A LARGER WATER HARVESTING AREA LOCATED AT THE SOUTHEAST CORNER OF THE SITE. DURING THE INTERIM CONDITIONS, THIS DRAINAGE WILL ENTER WATSON DR. AND THEN OUTFALL INTO A TEMPORARY RETENTION POND LOCATED SOUTH OF THE SITE VIA A CURB OPENING AND ASPHALT RUNDOWN. THIS POND WAS SIZED TO ACCEPT THE 100YR, 10DAY STORM EVENT. IN THE FUTURE, THE FLOW WILL ENTER WATSON DRIVE AS PREVIOUSLY STATED, UNTIL IT REACHES THE STORM DRAINAGE SYSTEM WHERE IT WILL BE CONVEYED TO THE POND. PLEASE SEE BASIN DATA TABLE FOR ASSOCIATED COMPUTATIONS.

THERE WILL BE WATER HARVESTING AREAS LOCATED THROUGHOUT THE SITE AND ALL RETENTION VOLUMES WERE NOT INCLUDED IN THE HYDROLOGIC ANALYSIS FOR THE DEVELOP DISCHARGE TO THE REGIONAL RETENTION POND. HOWEVER; AT THE SOUTHEAST CORNER OF THE SITE, THE LARGE WATER HARVESTING AREA WILL ALSO ACT AS A DETENTION POND TO REDUCE THE TOTAL OUTFALL. AN AHYMO ANALYSIS WAS COMPLETED AND THE ENTIRE SITE WAS ROUTED THROUGH THIS POND/WATER HARVESTING AREA, WHICH REDUCED THE TOTAL OUTFALL OF THIS SITE FROM 7.41CFS TO 2.27CFS (SEE AHYMO PROGRAM SUMMARY), RESULTING IN TWO 24"SIDEWALK CULVERTS OUTFALLING INTO WATSON DR.

THE TEMPORARY RETENTION POND AT THE SOUTH END OF THE SITE WILL ACCEPT THE DEVELOPED FLOWS FROM THE FIRE HOUSE PROJECT AS WELL AS MINOR UNDEVELOPED DRAINAGE FROM THE SURROUNDING OFFSITE BASINS. THE VOLUME REQUIRED IS 24,958.26CF AND THE VOLUME PROVIDED IS 26,510CF. THE TOTAL FLOW FROM THE SITE IS 2.27CFS.

OFFSITE DRAINAGE

CURRENT DRAINAGE FROM THE WEST (OFFSITE T-1) WILL BE DIVERTED ALONG THE WESTERN PROPERTY LINE TO THE TEMPORARY POND T CONSTRUCTED WITH THE ROADWAY ROUGH GRADING PROJECT. DRAINAGE TO THE SOUTHWEST WILL CONTINUE TO OUTFALL TO THE TEMPORARY RETENTION POND CONSTRUCTED WITH THE ROUGH GRADING PROJECT (POND T). UPON DEVELOPMENT OF THESE SITES, DRAINAGE WILL CONFORM TO THE REQUIREMENTS SET FORTH IN DA2 DMP. IN ADDITION, HALF OF WATSON DR.; FROM SOLAR MESA AVE TO THE SOUTHERN PROPERTY LINE OF THE FIRE HOUSE, WILL ALSO ENTER THE NEW TEMPORARY POND. THE DRAINAGE FOR WATSON WILL FURTHER BE DETAILED IN A FUTURE SUBMITTAL.

IN ACCORDANCE WITH FEMA COMMUNITY MAP PANEL #35001C0555 D, THE SITE IS NOT LOCATED WITHIN A FLOODPLAIN.

IV. CONCLUSION

THE 100YR PEAK DISCHARGE FROM THE SITE IS APPROXIMATELY 2.27CFS WITH A 100YR, 10DAY VOLUME OF 17,790CF. THESE FLOWS WERE COMPUTED IN ACCORDANCE WITH SECTION 22.2 OF THE DEVELOPMENT PROCESS MANUAL. THIS DRAINAGE MANAGEMENT PLAN IS CAPABLE OF SAFELY PASSING THE 100 YEAR STORM EVENT AND MEETS CITY AND LEVEL B REQUIREMENTS. WITH THIS SUBMITTAL WE ARE SEEKING HYDROLOGY APPROVAL FOR BUILDING PERMIT APPROVAL.

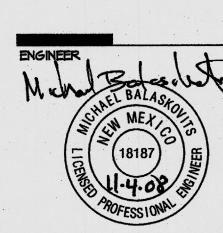


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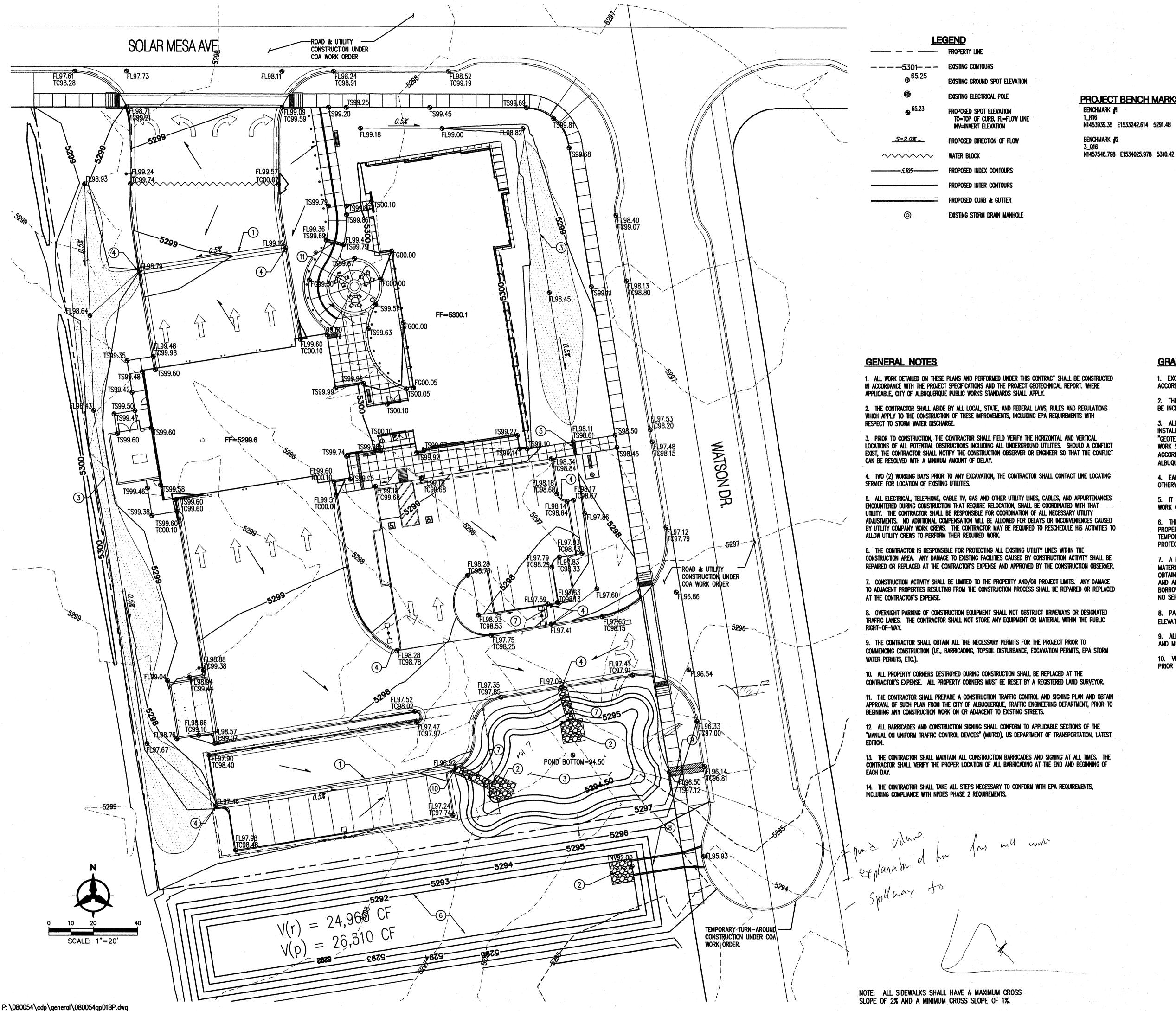
DATE SEPTEMBER 22, 2008 PROJECT NO. 07025

DRAINAGE MANAGEMENT

SHEET NO.

PLAN

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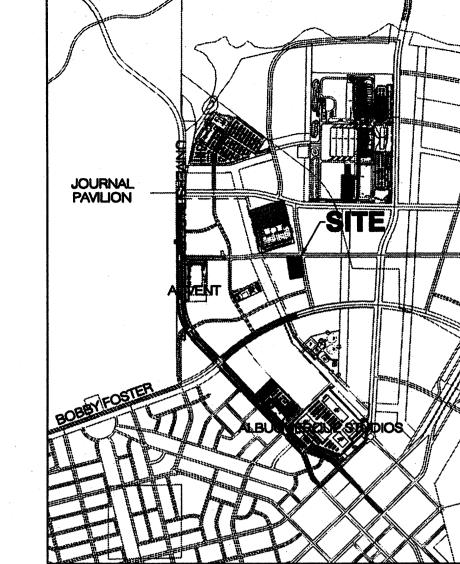


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BENCHMARK #1

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LOCATION MAP ZONE ATLAS INDEX MAP R-16 NOT TO SCALE

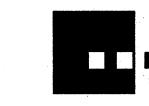
- 1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE
- 2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT
- 4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING
- 5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO
- CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED
- 8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC
- COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM
- APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO
- "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST
- 13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF

GRADING NOTES

- 1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- 2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- 3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
- 4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- 5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK CUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- 6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.
- 7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- 8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE $\pm /- 0.05$ from Building Plan Elevation.
- 9. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.
- 10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

GRADING KEYED NOTES

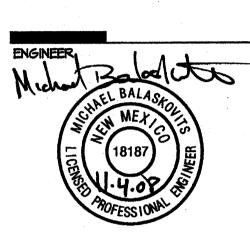
- 1. INSTALL 3' VALLEY GUTTER PER DETAIL 1, SHEET C101.
- 2. INSTALL 10'X10' RIP RAP BLANKET PER DETAIL 3, SHEET C101.
- 3. WATER HARVESTING AREA, SEE LANDSCAPE PLAN FOR DETAILS.
- 4. PROVIDE 24" CURB OPENING PER DETAIL 2, SHEET C101.
- 5. INSTALL 1-24" SIDEWALK CULVERT PER COA STD DWG 2236.
- 6. TEMPORARY RETENTION POND
- 7. INSTALL 4' COBBLE SWALE PER DETAIL 4, SHEET C101.
- 8. INSTALL ASPHALT RUNDOWN PER DETAIL 5, SHEET C101. OPENING SHALL BE A 10' MINIMUM TRANSITIONING TO A 6' WIDE
- 9. INSTALL 2-24" SIDEWALK CULVERT PER COA STD DWG 2236.
- 10. PROVIDE 48" CURB OPENING PER DETAIL 2, SHEET C101. TRANSITION COBBLE SWALE RUNDOWN FROM 6' AT OPENING TO 4' WITHIN 5'.
- 11. INSTALL 1-24" SIDEWALK CULVERT PER COA STD DWG 2236.



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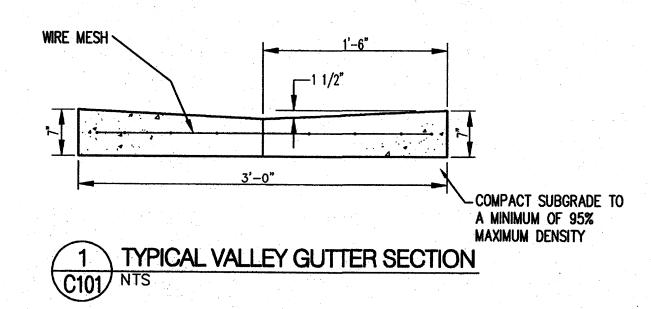
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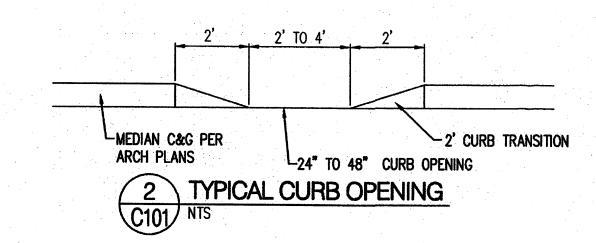
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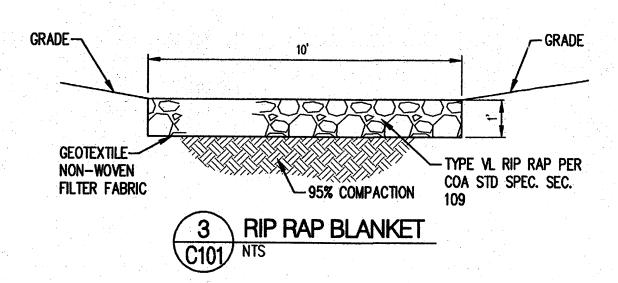
DATE SEPTEMBER 22, 2008 PROJECT NO. 07025

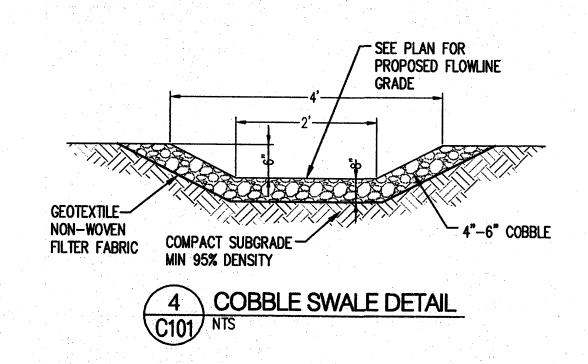
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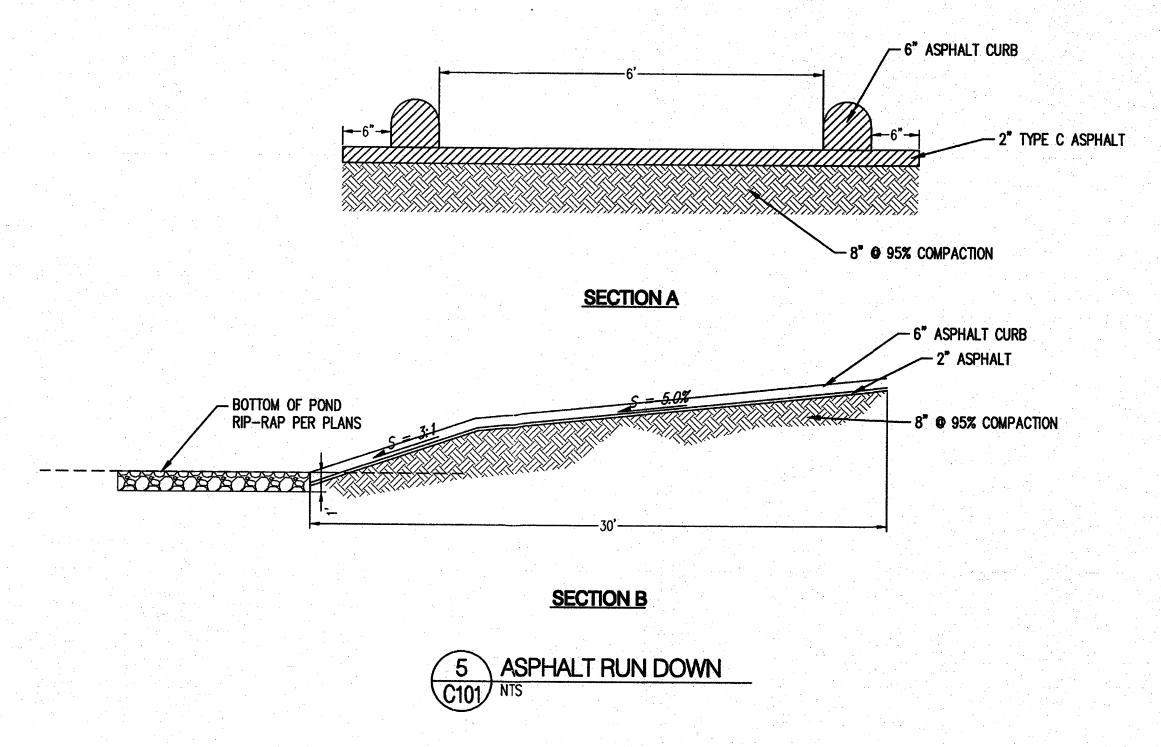
PLAN

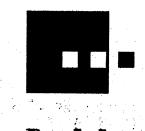










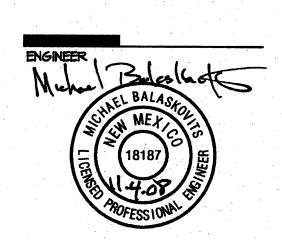


interiors

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SPO ECT

FIRE HOUSE a) MESA DEL SOL

NEW

ALBUQUERQUE,

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DATE SEPTEMBER 22, 2008

PROJECT NO.

DRAWING NAME

GRADING AND DRAINAGE DETAILS

SHEET NO.
C101

Courtyard 1 7500 Jefferson St. NE. Albuquerque, NM 87109-4335

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