

- THE SITE DOES NOT LIE WITHIN OR ADJACENT TO A DESIGNATED FLOOD HAZARD AREA, RUNOFF FROM THE SITE DOES NOT CONTRIBUTE TO DOWNSTREAM FLOODING.
- FREE DISCHARGE IS JUSTIFIED FOR THE FOLLOWING REASONS: A. THE SITE IS AN IN-FILL SITE.
  B. THE SITE IS ALREADY FULLY DEVELOPED. DEVELOPMENT WILL ACTUALLY
- OF THE SITE. ALL OTHER EXISTING DRIVEPADS, EXCEPT THE ONE NEAREST THE NE CORNER OF THE SITE, WILL BE REMOVED AND REPALCED WITH STANDARD
- ALL ROOF DRAINS WILL CONNECTED TO AN 8" PVC PIPE RUNNING ALMOST THE FULL LENGTH OF THE REAR SIDE OF THE BUILDING.
- THE PROPOSED DEVELOPMENT DOES NOT BLOCK OFF-SITE FLOW NOR DOES IT PERMIT FLOW FROM THE SITE TO ENTER ADJACENT PROPERTY.

## EMOSION CONTROL PLAN:

THE SITE IS PRESENTLY PAVED. REMOVE ONLY THE AMOUNT OF PAVEMENT REQUIRED TO CONSTRUCT THE BUILDING FOUNDATION. THE RUNOFF FORM THIS AREA SHOULD BE RETAINED WITHIN THE AREA BY THE MATERIAL EXCAVATED FOR THE FOOTINGS. THE REMAINING SITE GRADING CAN BE DONE RATHER QUICKLY SINCE THERE IS NOT MUCH GRADING REQUIRED. IT IS ANTICIPATED THAT THIS WORK WILL BE DONE DURING THE SEASON WHEN THUNDER SHOWERS RESULTING IN EROSIVE AMOUNTS OF RUNOFF ARE UNLIKELY TO OCCUR.

## CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLIC-ABLE FEDERAL, STATE, AND LOCAL LAVS, RULES, AND REGULATIONS CONCERNING
- ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN AC-CORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- SEE SITE PLAN FOR DIMENSIONS OF PARKING LOT LAYOUT, BUILDING LOCATION,
- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.

- WEIGHTED "C" VALUE = 28003 / 29843 = 0.92

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- C. RAINFALL, 100-YR.,6-HR.:(REF. A., PLATE 22.2 D-1)
  R6 = 2.35 INCHES
- D. TIME OF CONCENTRATION: TEN (10) MINUTES.
- RUNOFF CURVE NUMBER (CN)-(REF.I.A., PLATE 22.2 C-2)
- UNDEVELOPED LAND USE: COMMERCIAL AND BUSINESS, PORTMP UNDEVELOPED CH -98 DEVELOPED LAND USE: COMMERCIAL AND BUSINESS, 98"TMP. DEVELOPED CH - 97
- H. DIRECT RUNOFF, QB. INCHES (REF. 1.4., PL. 22.2 C-4) UNDEVELOPED Q - 2.1 IN. DEVELOPED Q - 2.0 IN.

## III. OH-SITE PEAK DISCHARGE BY RATIONAL EQUATION:

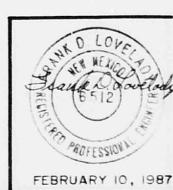
- A. EXISTING CONDITIONS: Q<sub>100</sub> = 0.94 X 4.97 X 0.69 = 3.22 CFS
- Q10 = 0.657 X 3.22 = 2.12 CFS
- DEVELOPED CONDITIONS: Q100 = 0.92 X 4.97 X 0.69 = 3.15 CFS Q10 = 0.657 X 3.15 = 2.07 CFS
- IV. ON-SITE VOLUME BY S.C.S. METHOD:
- EXISTING CONDITIONS:  $V_{100} = AREA (Q_D/12) = 29843 (2.1/12) = 5223 CF$
- V10 0.657 X 5223 3432 CF DEVELOPED CONDITIONS: V<sub>100</sub> = AREA (Q<sub>D</sub>/12) = 29843(2.0/12) =4974 CF
- V10 0.657 X 4974 3268 CF

# ROOF DRAIN OUTFALL LINE:

ROOF AREA = 8750 SF = 0.20 AC. Q = CIA = 0.9X4.97X0.= 0.89 CFS CAPACITY OF 8" PVC PIPE, BY MANNING'S EQUATION. S = 0.0060 FT/FT. N = 0.009 AREA = 0.3491 SF P = 81/12 = 0.167 FT. V =  $(1.486/N)R^{2/3}S^{1/2}$  =  $(1.486/0.009)(0.167)^{2/3}(0.006)^{1/2}$  = 3.876FPS Q = AV = 0.3491 X 3.876 = 1.35 CFS > 0.89 CFS (ADEQUATE)

TRY 6" PVC. A = 0.1963 SF P = 1.57 PT. R = 0.1963 / 1.57 = 0.125  $V = (1.486/0.009)(0.125)^{2/3}(0.006)^{1/2} = 3.195 PPS Q = AV = 0.1963 X 3.195 = 0.63 CFS (INADEQUATE) USE 8" DIAMETER PIPE.$ 

BEGINNING AT THE SCATTAWESTERLY CORNER OF SAID TRACT, WHENCE THE CREDIAL SOUTHWESTERLY CORNER OF SAID LOT 1 BEARS S 45° 20' 17" M, 2,09 FEET DESTRAIT; THENCE PRON SAID POINT OF BEGINNING, N 00° 23' 00" W, 234.54 FRET ALONS THE EAST RIGHT-OF-WAY OF WYOMING BLVD., N.E. TO AN ANGLE POINT; THENCE, N 45° 20' 17" E, 13.96 FEET ALONG THE RIGHT-OF-WAY COMMON TO WYOMING BLVD., N.E. AND MENAUL BLVD., N.E. TO AN ANGLE POINT; THENCE, S 88° 56' 30° E, 234.55 FEET ALONG THE SOUTH RIGHT-OF-WAY OF MEHAUL BLVD., N.E. TO THE MOSTHEASTERLY CORNER; THENCE LEAVING SAID RIGHT-OF-WAY S 45° 20' 17" W, 341.40 FEET TO THE POINT OF BEGINNING, AND CONTAINING 29842.96 SQUARE FEET.



GRADING AND DRAINAGE PLAN BOARDWALK DEVELOPMENT CORPORATION NEW RETAIL BUILDING

HYDROLOGY SECTION