



FIRST FLUSH STORAGE:

NORTH LANDSCAPING PONDING

NORTH LANDSCAPING PONDING AREA=196 SQ.FT.
NEW LAND TREATMENT "D" CAPTURED BY POND
AREA = 2,500 SQ.FT
WATER QUALITY STORAGE NEEDED=2,500 SQ.FT. $(.34") \times (1' / 12") = 70.8$ CU.FT.
WATER QUALITY STORAGE PROVIDED(4-INCHES DEPTH)=65.3 CU.FT.

$$WQ_{\text{PROVIDED}} (65.3 \text{ CU.FT.}) \approx WQ_{\text{NEEDED}} (70.8 \text{ CU.FT.})$$

SOUTH LANDSCAPING PONDING

NORTH LANDSCAPING PONDING AREA=230 SQ.FT.

NEW LAND TREATMENT "D" CAPTURED BY POND
 AREA = 1,130 SQ.FT
 WATER QUALITY STORAGE NEEDED=1,130 SQ.FT. $(.34") \times (1' / 12") = 32.0$ CU.FT.
 WATER QUALITY STORAGE PROVIDED(2-INCH DEPTH)=38.3 CU.FT.

$$WQ_{\text{PROVIDED}} (38.3 \text{ CU.FT.}) \approx WQ_{\text{NEEDED}} (32.0 \text{ CU.FT.})$$

TOTAL WQ_{PROVIDED} (103.6 CU.FT.) > WQ_{NEEDED} (102.8 CU.FT.)

LAND TREATMENT NET CHANGE:

EXISTING CONDITION

EXISTING LANDSCAPING = 586 SQ.FT.

PROPOSED CONDITION

EXISTING LANDSCAPING = 311 SQ.FT.
PROPOSED LANDSCAPING = 426 SQ.FT.
TOTAL = 737 SQ.FT.

NET CHANGE 151 SQ.FT. OF ADDITIONAL LANDSCAPING.

NARRATIVE

PIERRO & COMPANY, LLC HAD A PRE-DESIGN CONFERENCE WAS HELD WITH THE CITY'S PRINCIPAL ENGINEER TO DISCUSS THE SUBMITTAL REQUIREMENTS FOR THIS PROJECT. A DRAINAGE EXHIBIT WAS DETERMINED TO BE ACCEPTABLE FOR THIS PROJECT, SINCE 1) THE NEW BUILDING IS PROPOSED TO BE LOCATED ON AN EXISTING PAVED PARKING LOT, 2) THE NET CHANGE OF LAND TREATMENT D WILL BE POSITIVE, AND THE IMPROVEMENTS WILL PROVIDE STORAGE FOR THE FIRST FLUSH.

THIS DRAINAGE EXHIBIT ILLUSTRATES THAT THE 1)CITY'S FIRST FLUSH REQUIREMENT HAS BEEN SATISFIED, 2) THE NET CHANGE IN LANDSCAPING INCREASED BY 151 SQ.FT., AND 3) THE EXISTING DRAINAGE PATTERN REMAINS THE SAME UNDER THE PROPOSED CONDITION.

THIS DRAINAGE EXHIBIT IS BEING SUBMITTED TO SEEK BUILDING PERMIT APPROVAL.

LEGEND

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- PROPERTY BOUNDARY
 - SWALE
 - EXISTING MAJOR CONTOUR (INTERVAL 2.5')
 - EXISTING MINOR CONTOUR (INTERVAL 0.5')
 - ROOF FLOW DIRECTION
 - SURFACE FLOW DIRECTION

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- EXISTING LANDSCAPING.
- NEW DEPRESSED LANDSCAPING.

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- EXISTING TREE

[illegible]