

1. THE SITE TO THE LEFT IS THE UNION COUNTY VOCATIONAL—TECHNICAL SCHOOL. DURING A SITE VIST, THERE WAS HEAVY EROSION FROM CHANNELIZED RUNOFF IN THE FRONT ISLAND OF THE SCHOOL BETWEEN RARITAN ROAD AND THE PARKING LOT. SEE PICTURES

2. A STORMWATER SWALE IS PROPSED TO STOP THE MASSIVE EROSION FROM THE STORM EVENTS. THE SWALE WILL HAVE AN ELEVATED OUTLET PIPE TO INFILTRATE ANY STORM LESS THAN 3.5 INCHES.

- 3. THE SWALE IS SIZED TO HANDLE A 100 YEAR STORM (8.7 INCHES)
- 4. ASSUMING 90% OF ALL STORMS ARE LESS THAN 1.25 INCHES FOR EACH YEAR; THIS SWALE WILL INFILTRATE AT LEAST 9.425 ACRE FEET PER YEAR. THIS IS AN APPROXIMATE CALCULATION THE AMOUNT OF INFILTRATION IS HEAVILY DEPENDENT ON THE SIZE AND FREQUENCY OF STORMS. THIS INFILTRATES ALL RUNOFF FROM 3.5 "STORMS AND LESS.
- 5. THIS SWALE SHALL REMOVE 60% OF TSS, 30% OF TOTAL PHOSPHOROUS AND 30% OF TOTAL NITROGEN.
- 6. AERIAL PHOTOGRAPHY IS FROM NJDEP 2002 AND EXISTING CONTOURS ARE FROM NJ DEMS.
- 7. THIS IS NOT FOR PERMITTING OR CONSTRUCTION USE, THIS DRAWING IS ONLY TO BE USED FOR CONCEPTUAL PURPOSES.

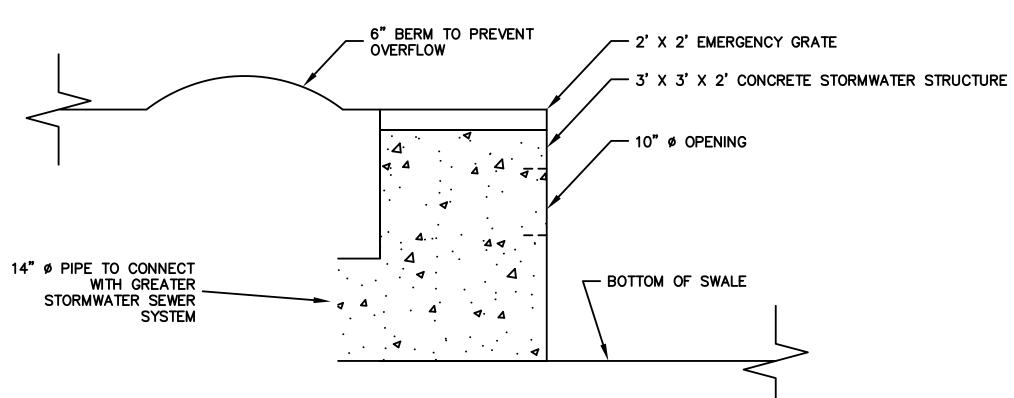
LEGEND BASIN DRAINAGE AREA DRAINAGE CONTOURS ELEVATIONS -EXISTING CONTOURS

SUGGEST PLANT LIST

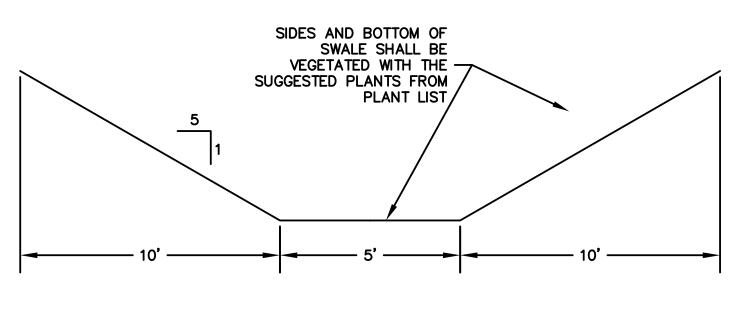
PLANT NAME SCIENTIFIC NAME CARDINAL FLOWER LOBELIA CARDINALIS SOFT RUSH JUNCUS EFFUSUS

FRINGED SEDGE CAREX CRINITA TUSSOCK SEDGE CAREX STRICTA FOX SEDGE CAREX VULPINOIDEA VIRGINIA WILD-RYE ELYMUS VIRGINICUS SWITCHGRASS PANICUM VIRGATUM WOOL GRASS SCIRPUS CYPERINUS

VEGETATION FOR THE SIDE SLOPE AND BOTTOM OF THE SWALE SHALL BE SEEDED WITH "RETENTION BASIN FLOOR SEEDING LOW MAINTENANCE GRASS-LIKE SPECIES" FROM ERNST CONVERSVATION SEEDS.



PROFILE OF STORMWATER STRUCTURE AND <u>SWALE</u> (NOT TO SCALE)



CROSS SECTION OF STORMWATER STRUCTURE AND SWALE (NOT TO SCALE)





PICTURES OF EXISTING SITE

DRAFT

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