

"AS-BUILTS ADDED JUNE, 1999"



JUNE, 1999
 SHEET NUMBER
 2 OF 4
 PROJECT NUMBER
 8433A-ASB.DWG
 FILE NAME
 LLD
 DNO
 BRLW
 CBR/CEB

1022 South Overland Drive
 St. Peters, MO 65376-4445
 314-492-5582
 FAX 314-492-1718



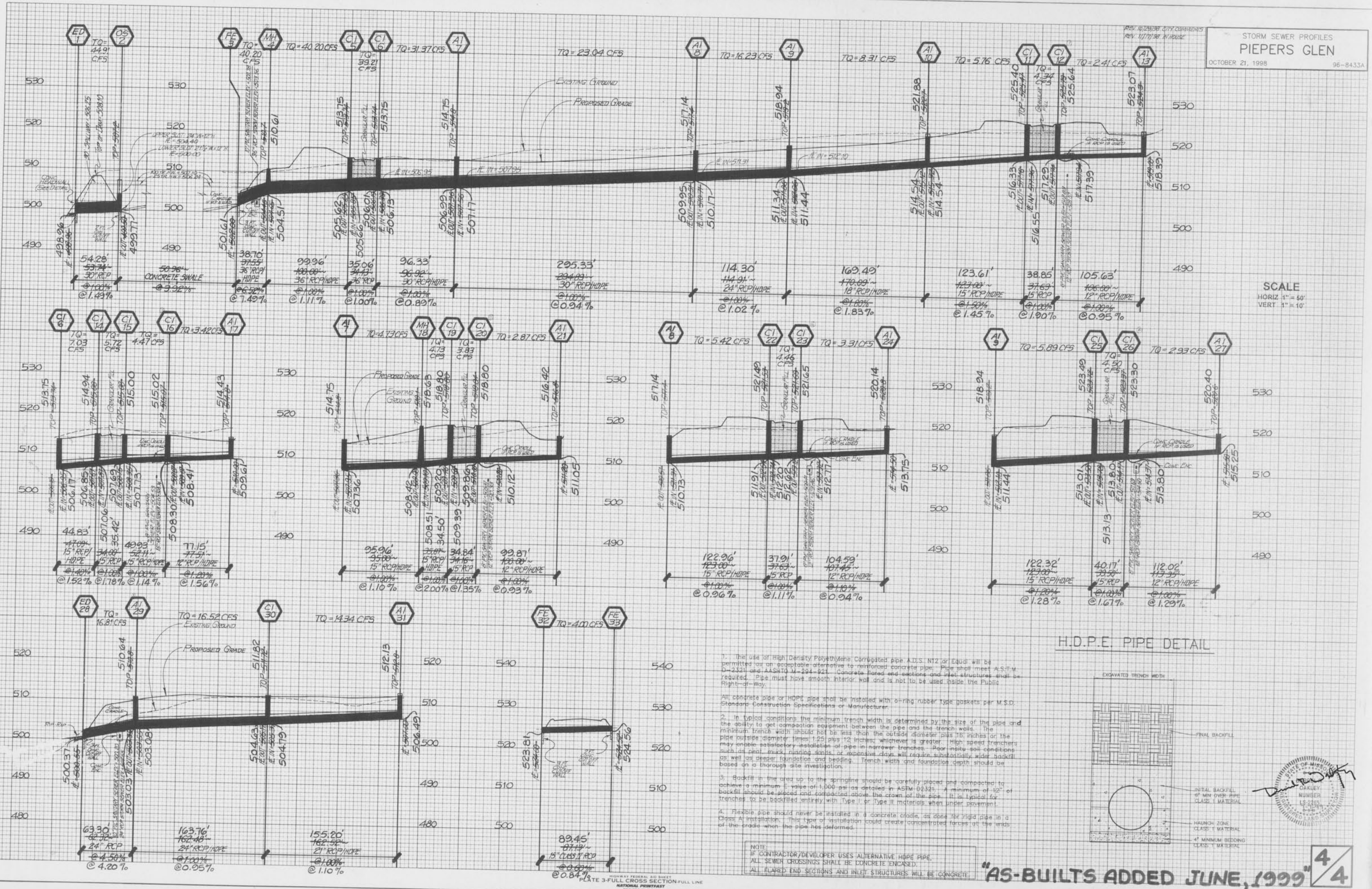
DATE	DESCRIPTION

PREPARED FOR:
 PAGANO DEVELOPMENT, INC.
 103 CLERMONT COURT
 ST. LOUIS, MO 63124
 (314) 432-3344

1022 South Overland Drive
 St. Peters, MO 65376-4445
 314-492-5582
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FINAL SURVEY BY DATE
 SURVEYED BY DATE
 TEMPLATE NO.
 NOTE BOOK NO.
 AREAS CHECKED

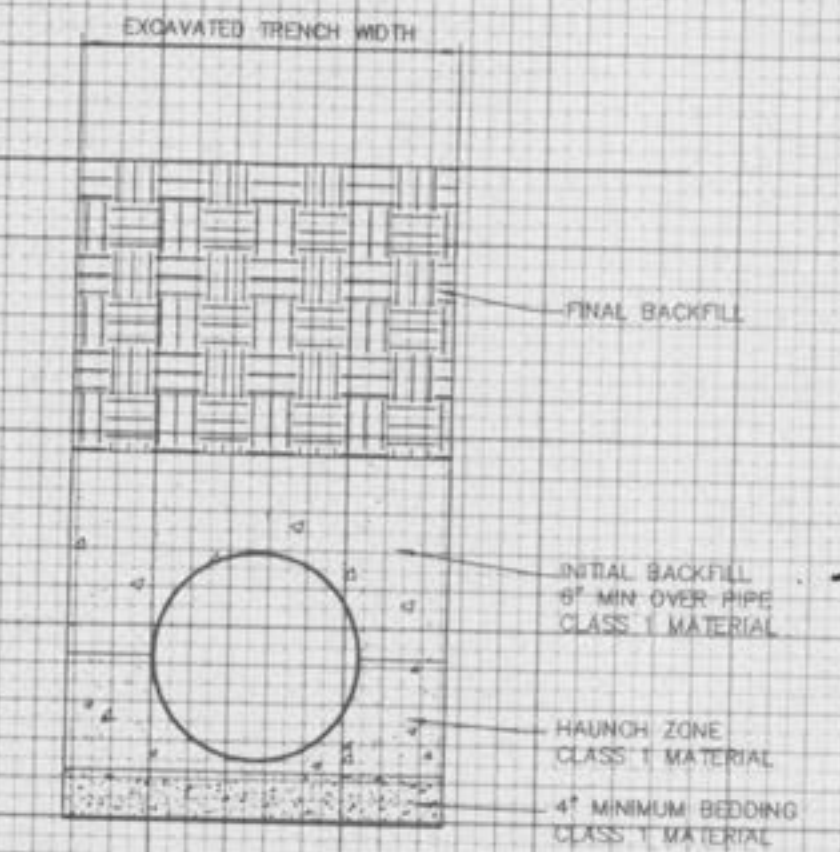
ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 TEMPLATE NO.
 NOTE BOOK NO.
 AREAS CHECKED



SCALE
 HORIZ 1" = 50'
 VERT 1" = 10'

H.D.P.E. PIPE DETAIL

- The use of high density Polyethylene Corrugated pipe A.D.S. NT2 or Equal will be permitted as an acceptable alternative to reinforced concrete pipe. Pipe shall meet A.S.T.M. D-2321 and A.A.S.T.M. M-294-921. Concrete lined end sections and inlet structures shall be required. Pipe must have smooth interior wall and is not to be used inside the Public Right-of-Way.
- All concrete pipe or HDPE pipe shall be installed with o-ring rubber type gaskets per M.S.D. Standard Construction Specifications or Manufacturer.
- In typical conditions the minimum trench width is determined by the size of the pipe and the ability to get compaction equipment between the pipe and the trench walls. The minimum trench width should not be less than the outside diameter plus 16 inches or the pipe outside diameter times 1.25 plus 12 inches, whichever is greater. High speed trenchers may enable satisfactory installation of pipe in narrower trenches. Poor inside soil conditions such as sand, mud, standing water, or expansive clay will require substantially wider backfill as well as deeper foundation and bedding. Trench width and foundation depth should be based on a thorough site investigation.
- Backfill in the area up to the springline should be carefully placed and compacted to achieve a minimum E value of 1,000 psi as detailed in ASTM D2321. A minimum of 1/2" of backfill should be placed and compacted above the crown of the pipe. It is typical for trenches to be backfilled entirely with Type I or Type II materials when under pavement.
- Flexible pipe should never be installed in a concrete cradle, as done for rigid pipe in a Class A installation. This type of installation could create concentrated forces at the ends of the pipe when the pipe has deformed.



NOTE:
 IF CONTRACTOR/DEVELOPER USES ALTERNATIVE HDPE PIPE,
 ALL SEWER CROSSINGS SHALL BE CONCRETE ENCASED.
 ALL FLARED END SECTIONS AND INLET STRUCTURES WILL BE CONCRETE.

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