ADVANCED DRAINAGE SYSTEMS, INC.

IMPROVEMENT PLANS

A TRACT OF LAND BEING LOT 11B
OF LONE STAR INDUSTRIAL PARK
PHASE TWO, PLAT TWO
AS RECORDED IN PLAT BOOK 30 PAGE 182
T. 47 N., R. 2 E., ST. CHARLES COUNTY, MISSOURI

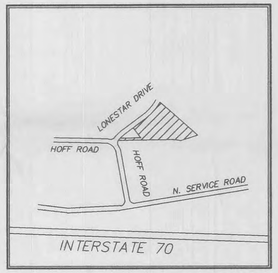
BLDG CONST INSP
APPROVED
AS NOTED
4-22-99
CHRIS LUNKEMAN

CITY OF O'FALLON GENERAL NOTES

1. Gas, water and other underground utilities shall not conflict with the depth or horizontal locations of existing and proposed sanitary and storm sewers, including building laterals. Contact the Engineer prior to proceeding if discrepancies are found.
2. Underground utilities have been plotted from available information and, therefore, their locations must be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to grading or construction of improvements.
3. Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR-35.
4. All filled places under buildings, proposed sanitary and storm sewer lines, and/or paved areas including trench backfills shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.T.O. T-180 Compaction Test" (ASTM D-1557) unless otherwise specified by the local governing authority specifications. All tests will be verified by a soils engineer.
5. All earthen filled places within State, County, or City roads (Highways) shall be compacted to 95% of maximum density as determined by the "Standard Proctor Test A.A.S.H.T.O. T-99" (ASTM D-698) unless otherwise specified by local governing authority specifications. All tests will be verified by a soils engineer.
6. All storm and sanitary trench backfills shall be water jetted. Granular shall will be used under paved areas.
7. No area shall be cleared without the permission of the developer.
8. All grades shall be within 0.2 feet (more or less) of those shown on the grading plan.
9. No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
10. The minimum vertical distance from the low point of the building to the flowline of a sanitary sewer at the corresponding building connection shall not be less than the diameter of the sanitary sewer plus a vertical distance of not less than two and one-half feet (2-1/2').
11. Water lines, valves, sleeves, meters and etc., shall meet all specifications and installation requirements of the local governing authority.
12. All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
13. All sanitary sewer laterals shall be 6" diameter.
14. The City of O'Fallon shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.
15. Brick shall not be used on manholes.
16. This tract is in or served by:
    - A. Electric - Union Electric Company
    - B. Telephone - G.T.E. Telephone Company
    - C. Sewers - City of O'Fallon
    - D. Gas - St. Charles Gas Company
    - E. Fire Protection - O'Fallon Fire Protection District
    - F. Water - City of O'Fallon
17. The contractor will be responsible to insure that all areas within the project limits that have been disturbed by the grading process shall be seeded and mulched within ninety (90) days of completion.
18. The contractor will be responsible for the removal and disposal of all existing improvements, except those designated to be left in place, from within the limits of the construction area.
19. The existing structures to be removed from the site will be recycled for future use in accordance with applicable laws.
20. The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system.
21. All PVC sanitary sewer pipe is to be SDR-35 or equal with "clean" 1/2 inch to 1 inch granular stone bedding uniformly graded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of same size "clean" or "minus" stone from springline of pipe to 6 inches above the top of pipe.
22. Existing sanitary sewer service shall not be interrupted.
23. Premanufactured adapters shall be used at all P.V.C. to D.I.P. connections. Rubber boot-mission type couplings will not be allowed.
24. Any permits, licenses, easements or approvals required to work on public or private properties or roadways are the responsibility of the developer.
25. SAFETY NOTICE TO CONTRACTOR

In accordancewith generally accepted costruction practices, the contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of the engineer to conduct construction review of the contractor's performance is not intended to include review of the adequacy of the contractor's safety measures, in, or near the construction site.



LOCATION MAP
WUNNENBERG MAP GRID TT16 PG 37

DRAWING INDEX

LEGEND

Sanitary Sewer (Proposed)	MH 20	Sanitary Structure	R.C.P.	Reinforced Concrete Pipe
Sanitary Sewer (Existing)	CI 20	Storm Structure	C.M.P.	Corrugated Metal Pipe
Storm Sewer (Proposed)		Test Hole	C.I.P.	Cast Iron Pipe
Storm Sewer (Existing)	PP	Power Pole	P.V.C.	Polyvinyl Chloride
6"w Water Line & Size		Light Standard	V.C.P.	Vitrified Clay Pipe
EX W Existing water line		Double Water Meter Setting		
Tee & Valve		Single Water Meter Setting	C.O.	Clean Out
Hydrant	C.I.	Curb Inlet	V.T.	Vent Trap
Cap	S.C.I.	Skewed Curb Inlet	T.B.R.	To Be Removed
18 Lot or Building Number	D.C.I	Double Curb Inlet	T.B.R.&R	To Be Removed & Relocated
x Existing Fence Line	G.I.	Grate Inlet	T.B.P.	To Be Protected
Existing Tree Line	A.I.	Area Inlet	T.B.A.	To Be Abandoned
25 18 Street Sign	D.A.I.	Double Area Inlet	B.C.	Base Of Curb
Existing Contour	C.C.	Concrete Collar	T.C.	Top Of Curb
Proposed Contour	F.E.	Flared End Section	T.W.	Top Of Wall
Grouted Rip-Rap	E.P.	End Pipe	B.W.	Base Of Wall
End of Lateral	E.D.	Energy Dissipator	(TYP)	Typical
Asphalt Pavement	M.H.	Manhole	U.N.O.	Unless Noted Otherwise
Concrete Pavement	C.P.	Concrete Pipe	U.I.P.	Use In Place

PREPARED FOR:
D.W.D. CONSTRUCTION
DANIEL W. DAVIS
12041 AMELING ROAD
ST. LOUIS, MO 63043
(314) 275-7502

PREPARED BY:
L.D.C. INCORPORATED
PLANNING-SURVEYING-ENGINEERING-CONSTRUCTION MANAGEMENT
THREE FLAGS CENTER
1360 SOUTH FIFTH STREET SUITE 266
ST. CHARLES, MO 63301
(314) 946-4059

SITE BENCHMARK :
SANITARY MANHOLE~TOP=544.67
TOP OF EXISTING MANHOLE, 45'± SOUTH OF THE NORTH PROPERTY LINE OF LOT 11B, LONE STAR INDUSTRIAL PARK.

STATE OF MISSOURI
AUGUST HEYSE
NUMBER E-24297
REGISTERED PROFESSIONAL ENGINEER

15 Apr 99

LDC, INC. # 99110