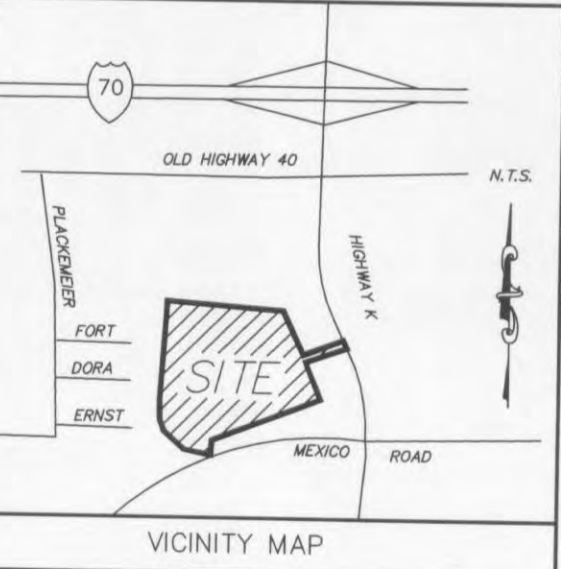


REFER TO PLANS BY CRAWFORD, BUNTE, BRAMMEIER FOR ALL IMPROVEMENTS WITHIN THE RIGHT-OF-WAY

DRAINAGE SCHEDULE

STRUCTURE NUMBER	STRUCTURE TYPE	TOP CASTING	INVERT OUT	INVERT IN	PIPE LENGTH (FEET)	PIPE TYPE	PERCENT SLOPE
1	OUTLET	-	521.00	521.00	-	-	-
1-2	THRU WALL	-	-	-	18'	36" RCP	0.00%
2-3	SUMPED STREET	537.35	521.00**	521.00	-	-	-
-	INLET (MSD #25)	-	-	-	107'	36" RCP	0.00%
3	GRATE	539.65	521.00	521.00	-	-	-
3-4	INLET	-	-	-	69'	36" RCP	0.00%
4	DOGHOUSE	540.70	521.00	522.45*	-	-	-
-	JUNCTION BOX	-	-	-	-	-	-
5	DOGHOUSE	541.23	532.56*	527.06*	(10" TRUCK DOCK)	-	-
-	JUNCTION BOX	-	-	-	(18" CPP DS)	-	-
6	SUMPED AREA	536.83	521.92**	522.02*	-	-	-
-	INLET (MSD #35)	-	-	-	-	-	-
7	DOGHOUSE	533.92	527.06*	527.06*	-	-	-
7-8	JUNCTION BOX	-	-	527.06 (8)	19'	24"	0.54%
8	OUTLET CONTROL	534.78	527.16	527.20	-	-	-
8-9A	STRUCTURE	-	-	-	7'	24"	0.00%
9A	UNDERGROUND	-	527.20(9A)	-	1,020'	72" CPP	0.068%
9A-9B	DETENTION	-	-	-	-	-	-
9B	UNDERGROUND	-	-	527.89(9B)	-	-	-
9B-10	DETENTION	-	-	-	24'	24"	1.00%
10	SUMPED DOGHOUSE	535.84	528.13**	528.23*	-	-	-
-	JUNCTION BOX	-	-	-	-	-	-
11	SUMPED STREET	537.00	532.85**	-	-	-	-
-	INLET (MSD #25)	-	-	-	-	-	-
12	DOGHOUSE	540.70	528.55*	534.51(13)	-	-	-
12-13	JUNCTION BOX	-	-	528.55*	49'	18"	2.01%
13	GRATE	539.60	535.50	-	-	-	-
-	INLET	-	-	-	-	-	-



GRADING/DRAINAGE PLAN LEGEND

- STORM SEWER PIPING
- JUNCTION BOX/STORM MANHOLE
- DRAINAGE STRUCTURE INDICATOR
- ▲ SLOPE ARROW
- ▬ CONCRETE FLUME
- ▬ RIP-RAP APRON
- ▬ STREET INLET MSD NO. 25
- ▬ SINGLE GRATE INLET
- ▬ DOUBLE GRATE INLET
- TC = TOP OF CURB
- TP = TOP OF PAVEMENT
- TW = TOP OF WALL
- FG = FINISH GROUND
- SW = SIDEWALK
- ▬ CITY OF O'FALLON ACCESS EASEMENT

WATER QUALITY BMP SCHEDULE

STRUCTURE NUMBER	STRUCTURE TYPE	WATER QUALITY DEVICE	TOP CASTING	INVERT OUT	INVERT IN	PIPE SIZE	SUMP INVERT
2	SUMPED STREET	SNOUT	537.35	521.00	521.00	36"	513.50
-	INLET (MSD #25)	-	-	-	-	-	-
6	SUMPED AREA	SNOUT	536.83	521.92	522.02*	42"	513.17
-	INLET (MSD #35)	-	-	-	-	-	-
10	SUMPED DOGHOUSE	SNOUT	535.84	528.13	528.23*	24"	523.13
-	JUNCTION BOX	-	-	-	-	-	-
11	SUMPED STREET	SNOUT	537.00	532.85	-	18"	529.10
-	INLET (MSD #25)	-	-	-	-	-	-

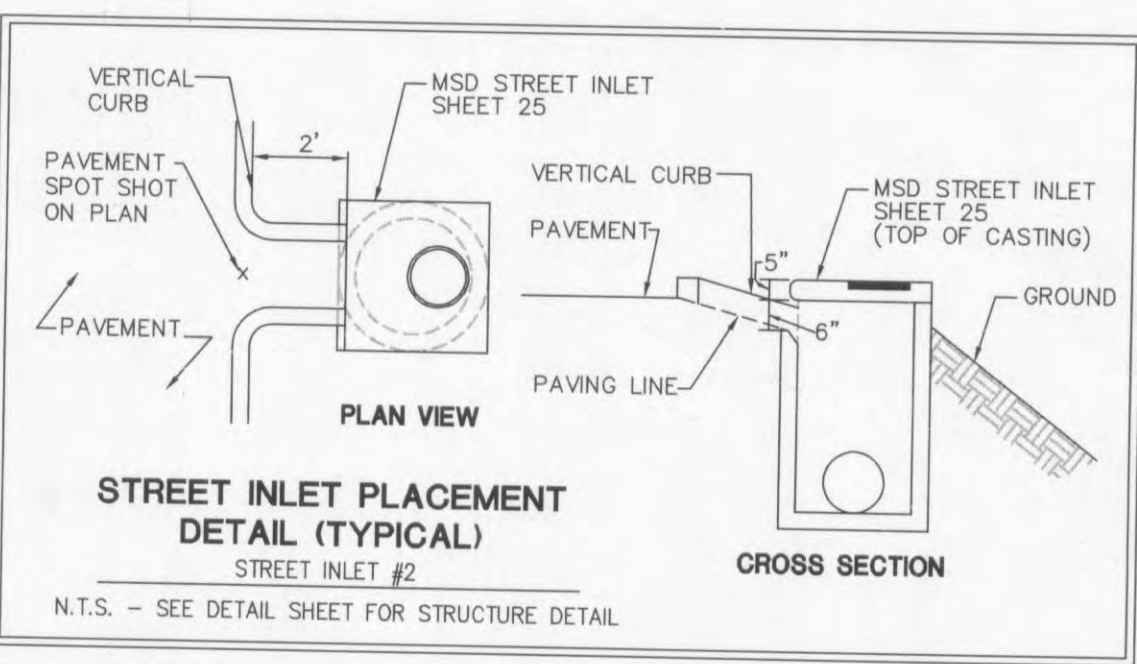
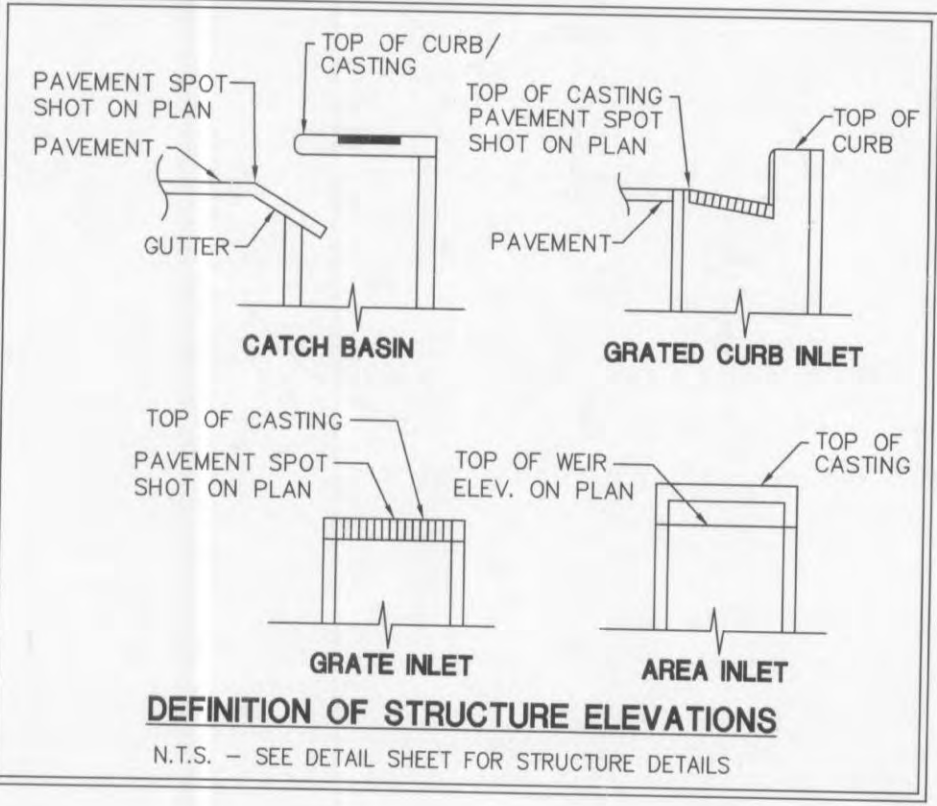
HIGH PLASTIC CLAY ARE PRESENT ON SITE AND WILL NOT BE ALLOWED WITHIN THE UPPER 2 FEET OF THE FLOOR SLABS, PERIMETER FOOTING, OR BACKFILL OF RETAINING WALLS.

UNDERCUTTING AND RECOMPACTION OR REPLACEMENT OF EXISTING MATERIAL MAY BE NECESSARY FOR INSTALLATION OF RETAINING WALLS.

EXISTING CONDITIONS LEGEND

- G.I. Grated Inlet
- C.I. Curb Inlet
- D.C.I. Dual Curb Inlet
- E.M. Electric Meter
- F.E. Flood End
- F.H. Fire Hydrant
- FL. Flowline
- GM. Gas Meter
- GV. Gas Valve
- L.S. Light Standard
- M.H. Manhole
- PVC Poly Vinyl Chloride
- RCP Reinforced Concrete Pipe
- VCP Vitriofied Clay Pipe
- T. Top
- U.P. Utility Pole
- BM. Bench Mark
- W.M. Water Meter
- W.V. Water Valve
- X- Fence Line
- T- Telephone Line
- G- Gas Line
- OE- Overhead Electric
- SS- Sanitary Sewers
- UE- Underground Electric
- W- Water Line

NOTES:
 * APPROXIMATE ELEVATION OF EXISTING IMPROVEMENTS. CONTRACTOR TO FIELD VERIFY AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 ** INVERT OUT IS NOT BOTTOM OF STRUCTURE. REFER TO WATER QUALITY BMP SCHEDULE FOR SUMP ELEVATION.



** NOTE **
 PIPE LENGTHS LISTED ARE BASED ON HORIZONTAL DISTANCE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND USED FOR DESIGN. CONTRACTOR TO FIELD VERIFY ACTUAL PIPE LENGTHS NEEDED FOR CONSTRUCTION.
 CONTRACTOR IS RESPONSIBLE FOR COMPARING THE STORM SEWER AND SANITARY SEWER CHARTS WITH THE PROFILES FOR THE STORM SEWER & SANITARY SEWER LINES AND INFORMING THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.

FOUNDATION SUBSURFACE PREPARATION
 WAL-MART EXPANSION
 O'FALLON, MISSOURI

Unless specifically indicated otherwise in the drawings and/or specifications, the limits of this subsurface preparation are considered to be that portion of the site directly beneath and 3 feet beyond the building and appurtenances. Appurtenances are those items attached to the building proper (refer to drawing Sheet SP1), typically including, but not limited to, the building sidewalks, garden center, porches, ramps, stoops, truck wells/docks, concrete aprons at the automotive center, compactor pad, etc. The base and the vapor barrier, where required, do not extend beyond the limits of the actual building and the appurtenances.

Establish the final subgrade elevation to allow for the concrete slab and base. Reference the Architectural and Structural drawings for required slab thickness. The 4-inch-thick base material shall conform to Missouri Standard Specifications for Highway Construction, Section 1007, "Type 5 Aggregate." The contractor shall be responsible for obtaining accurate measurements for all cut and fill depths required. Any proposed equivalent base material must be submitted for approval within 30 days after award of contract. Any equivalent alternative shall only be used if approved in writing by the CEC and AOR.

Existing foundations, slabs, pavements, and below-grade structures shall be removed from the building area. Remove surface vegetation, topsoil, root systems, organic material, existing uncompacted fill, and soft or otherwise unsuitable material from the building area. Proofroll exposed subgrade. Remove and replace unsuitable areas with suitable material. Subgrade material shall be free of organic and other deleterious materials and shall meet the following requirements:

Location with respect to final grade	L ₁	P ₁
Building area, upper 2 feet	45 MAX.	20 MAX.
Foundation bearing, upper 2 feet	45 MAX.	20 MAX.

The upper 24 inches of floor slab subgrade material shall be placed in loose lifts not exceeding 8 inches in thickness and compacted to at least 98 percent of standard Proctor maximum dry density (ASTM D 698). The upper 12 inches of pavement subgrade material shall be compacted to at least 95 percent of standard Proctor maximum dry density (ASTM D 698). All other site fills shall be placed in loose lifts not exceeding 8 inches in thickness and compacted to at least 95 percent of Standard Proctor maximum dry density (ASTM D 698). To maximize compaction and stability, we recommend soils have moisture contents in the range of ±2 percent of optimum moisture content.

The site soils will be "tender" (e.g., pumping and rutting) in the presence of construction traffic and excessive moisture. Caution must be exercised during grading to maintain the subgrade integrity and to control disturbance.

The foundation system shall be isolated spread footings at columns and continuous spread footings at walls.

This foundation subsurface preparation does not constitute a complete sitework specification. Information covered in this preparation governs over the contract specifications. Refer to the sitework specifications and the geotechnical report by Midwest Testing dated 5/29/2008, for specific information not covered in this preparation. The geotechnical report is for information only and is not considered as a design specification.

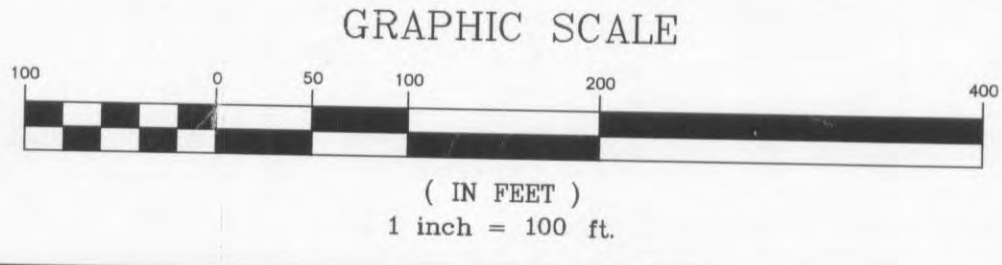
CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY SEALED BY A MISSOURI RLS FOR ALL NEW STORM SEWER LINES, DETENTION FACILITIES, SANITARY SEWER LINES AND WATER LINES AT LEAST 30 DAYS PRIOR TO POSSESSION.

CONTRACTOR SHALL PROVIDE LEVELING, WHERE NECESSARY, TO ACHIEVE THE PROPOSED GRADES SPECIFIED ON THE GRADING PLAN. CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID. REFER TO PAVING PLAN.



OWNER-
 THF O'FALLON DEVELOPMENT, L.L.C.
 2127 INNERBELT BUSINESS CENTER DR.
 SUITE 200
 ST. LOUIS, MISSOURI 63114
 CONTACT: MR. DARREN RIDENHOUR
 (314) 429-0900
 (314) 429-0999

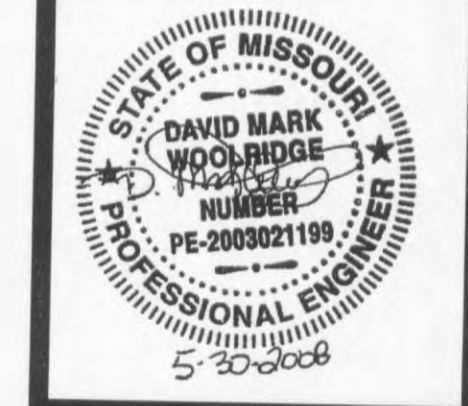
GRADING PLAN



PLANNING AND DEV. DEPT. FILE NO.: 00-109.02
 DATE OF PLANNING APPROVAL: 09/06/2007

REFER TO SHEET C-N FOR SITE GRADING NOTES

Wolverton & Associates
 Consulting Engineers + Land Surveyors
 6745 Sugarloaf Parkway • Suite 100 • Duluth, Georgia 30097
 Phone: (770) 447-9999 • Fax: (770) 447-9070
 www.wolverton-assoc.com



PROPOSED EXPANSION TO WAL-MART #2616-04
 O'FALLON POINTE CENTRE
 O'FALLON, MISSOURI 63366
 BY: WAL-MART REAL ESTATE BUSINESS TRUST
 BENTONVILLE, AR.

REVISIONS	BY
ADDENDUM 6 6/18/08	CER

DRAWN BY CER
 CHECKED BY DMW
 DATE: 05/30/2008
 SCALE: 1" = 100'
 JOB No. 06-107
 SHEET NUMBER C-2
 EDDS : 6110