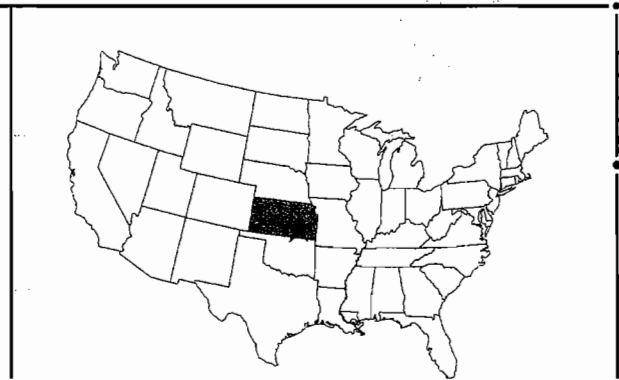


# LOWE'S OF: N.W. WICHITA

## MAIZE RD. & CENTRAL PARK ST. 1761 PPS

APPROVED AS NOTED BY CITY ENGINEER OF WICHITA  
 SANITARY SEWER: *ACT 6-30-08*  
 STORM SEWER: *ACT 6-30-08*

NOTE TO CONTRACTORS  
 INSTALLATION, INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER. ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH THE CITY OF WICHITA SPECIFICATIONS AND STANDARDS (ON FILE AND AVAILABLE IN THE CITY ENGINEER'S OFFICE).



STATE LOCATION MAP

REVISIONS	
DATE	DESCRIPTION



**DRAWING INDEX:**

	DATE	REV/BID/CO/ADD
1.5	5-12-08	REVISION 3
3.	4-08-08	BID
4.	4-08-08	ADDENDUM 2
4.1	4-08-08	REVISION 1
4.2	4-08-08	REVISION 1
6.	4-08-08	REVISION 1
6.1	4-08-08	REVISION 1
6.2	4-08-08	REVISION 1
7.	4-08-08	REVISION 1
7.1	4-08-08	REVISION 1
7.2	4-08-08	REVISION 1
8.	5-12-08	REVISION 3
8.1	4-08-08	REVISION 1
8.2	5-12-08	REVISION 3
8.4	4-08-08	ADDENDUM 2
8.5	4-08-08	ADDENDUM 2
8.6	4-08-08	ADDENDUM 2
10.	4-08-08	ADDENDUM 2
19.	4-08-08	ADDENDUM 2
20.	4-08-08	BID
22.	4-08-08	REVISION 1
23.	4-08-08	BID
FP.	-	-

**COVER GENERAL NOTES:**

INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND EXISTING FIELD CONDITIONS WHEN POSSIBLE. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY HAND DIGGING TEST PITS AT ALL UTILITY CROSSINGS IN ADVANCE OF TRENCHING WITH ANY MECHANICAL DEVICE. CLEARANCES LESS THAN SPECIFIED ON THESE PLANS OR 18", WHICHEVER IS LESS, CONTRACTOR SHALL CONTACT OZARK CIVIL ENGINEERING, INC. @ 479.464.8850 PRIOR TO ANY FURTHER CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OR REMOVAL OF EXISTING UNDERGROUND UTILITIES SHOWN OR NOT SHOWN AT NO ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL INCLUDE IN CONTRACT THE PRICE FOR THE REMOVAL AND DISPOSAL OF ANY EXCESS TOPSOIL HE DETERMINES IS NOT NEEDED TO ESTABLISH THE FINAL GRADES AND LANDSCAPING.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND USE OF ANY AND ALL REQUIRED OR NECESSARY SHORING, SHEETING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED ON THIS PROJECT THAT WILL MEET OR EXCEED OSHA, FEDERAL, STATE AND LOCAL REGULATIONS DURING CONSTRUCTION. OZARK CIVIL ENGINEERING, INC. AND THE DEVELOPER/OWNER ACCEPTS NO RESPONSIBILITY FOR THE CONTRACTORS FAILURE TO COMPLY WITH THESE REGULATIONS.

ALL UTILITIES, INCLUDING STORM SEWER, SHOWN WITHIN PUBLIC EASEMENTS OR RIGHT OF WAYS SHALL BE CONSTRUCTED TO THE GOVERNING AGENCY'S SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE CONSTRUCTED TO THE CLIENTS' OR THE GOVERNING AGENCY'S SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. IF THERE IS A QUESTION AS TO WHICH SPECIFICATIONS SHOULD APPLY THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW ALL RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL STUDY, WHERE A CONFLICT EXISTS BETWEEN THE HIGHWAY DEPARTMENT / CITY STANDARDS, OR THE GEOTECH STUDY, THE MOST STRINGENT SHALL APPLY.

FURTHERMORE IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE EROSION CONTROL MEASURES AS SHOWN ON THESE PLANS. CONTRACTOR SHALL KEEP THESE MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR IMPLEMENTING THE SWPPP.

ALL PHASES OF CONSTRUCTION SHALL MEET OR EXCEED THE OWNER / DEVELOPER SITE WORK SPECIFICATIONS.

SEE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS AND LOCATIONS OF ANY RAMPS, VESTIBULE, PORCHES, SLOPED PAVING, BUILDING UTILITY ENTRANCE LOCATIONS, TRUCK DOCKS OR WELLS, AND PRECISE BUILDING-DIMENSIONS.

CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION PROCEDURES. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL LOCAL STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

THE TOPOGRAPHIC AND BOUNDARY SURVEY, INCLUDING BUT NOT LIMITED TO PROPERTY LINES, LEGAL DESCRIPTIONS, EXISTING UTILITIES, SITE TOPOGRAPHY INCLUDING SPOT ELEVATIONS, EXISTING STRUCTURAL LOCATIONS AND OUTSTANDING PHYSICAL FEATURES HAS BEEN PROVIDED BY THE FOLLOWING COMPANY:

Poe & Associates  
 Tim Austin  
 5940 E. Central, Ste. 200  
 Wichita, KS. 67208  
 316-685-4114 (V)

OZARK CIVIL ENGINEERING INC. AND ITS ASSOCIATES WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY OR FOR DESIGN ERRORS OR OMISSIONS RESULTING FROM SURVEY INACCURACIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING FEATURES AS SHOWN ON THE SURVEY AND NOTIFY THE SURVEYOR AND THE ENGINEER OF RECORD OF ANY INACCURACIES FOUND ON THE SURVEY PRIOR TO BEGINNING CONSTRUCTION.

THE GENERAL CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.

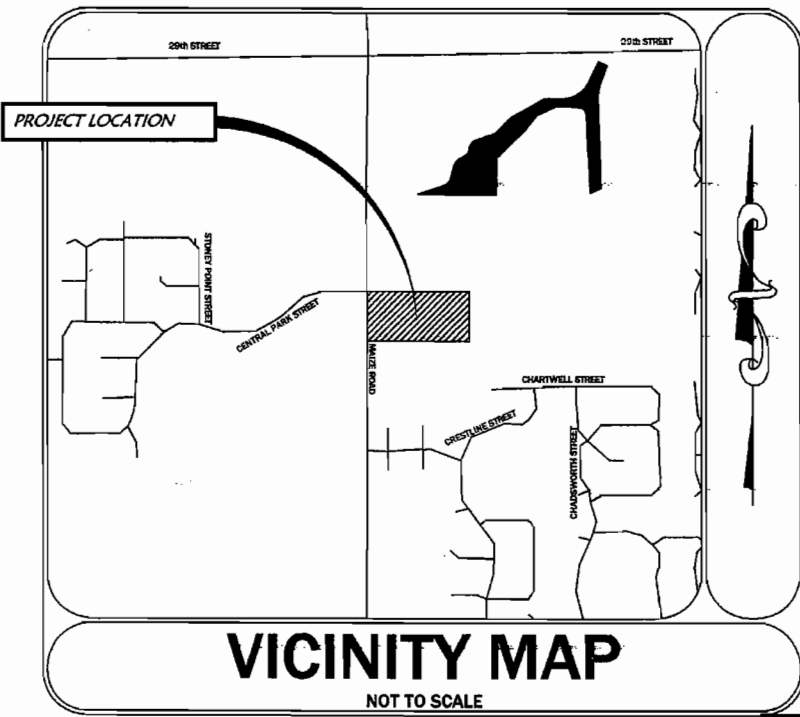
ALL CONSTRUCTION IN THE STATE RIGHT-OF-WAY SHALL BE COORDINATED WITH THE HIGHWAY DEPARTMENT.

THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING ALL PHASES OF CONSTRUCTION OF THIS SITE. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO CONSTRUCTION WORKING HOURS.

WARRANTY / DISCLAIMER  
 THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR DESIGN FUNCTION AND USE INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR HIS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION AT THE SITE.

**GOVERNING / UTILITY AGENCIES:**  
CITY OF WICHITA, KS.

- |  |   |  |
|--|---|--|
| <b>CLIENT</b><br>Lowe's Companies, Inc.<br>Robert Flebig<br>1952 McDowell Rd. Ste. 101<br>Naperville, IL. 60563-6505<br>630-548-7514 (V)<br>630-527-8830 (F) | <b>ELECTRIC</b><br>Wester Energy<br>Randy Truitt<br>1900-E. Central<br>Wichita, KS. 67214<br>316-261-6215 (V)   | <b>GEOTECH</b><br>Kilenfelder<br>Jeff Hoffman<br>7802 Barton<br>Lenexa, KS. 66214<br>913-632-0909 (V)<br>913-632-0924 (F)                      |
| <b>CITY</b><br>City Planning Department<br>Donna Goltry<br>455 N. Main<br>Wichita, KS. 67202-1688<br>316-268-4421 (V)<br>316-268-4390 (F)                    | <b>TELEPHONE</b><br>58C<br>Christopher Dieker<br>154 N. Broadway, Room 210<br>Wichita, KS. 67202<br>316-268-3180 (V)                                  | <b>ENVIRONMENTAL</b><br>Kilenfelder<br>Rowley Tedlock<br>7802 Barton<br>Lenexa, KS. 66214<br>913-632-0909 (V)<br>913-632-0924 (F)              |
| <b>City Planning Dept./Plan Approval</b><br>Dele Miller<br>455 N. Main<br>Wichita, KS. 67202-1688<br>316-268-4421 (V)<br>316-268-4390 (F)                    | <b>GAS</b><br>Kansas Gas Service<br>John Stark<br>3845 W. Harry<br>Wichita, KS. 67213<br>316-941-1607 (V)   | <b>WETLANDS</b><br>Burns & McDonnell<br>Randy Root<br>9400 Ward Parkway<br>Kansas City, MO. 64114-3319<br>816-822-3961 (V)<br>816-822-3515 (F) |
| <b>WATER AND SEWER</b><br>City of Wichita, KS.<br>Bill Perkins/Paul Bryant<br>455 N. Main<br>Wichita, KS. 67202<br>316-368-4555 (V)<br>316-368-4514 (F)      | <b>DEVELOPER</b><br>Classic Real Estate<br>Christian Ablah<br>8200 E. 32nd St. Ste. 150<br>Wichita, KS. 67226<br>316-634-2600 (V)<br>316-393-3456 (F) | <b>TRAFFIC</b><br>Poe & Associates<br>Tim Austin<br>5940 E. Central, Ste. 200<br>Wichita, KS. 67208<br>316-685-4114 (V)<br>316-685-4444 (F)    |



**VICINITY MAP**  
NOT TO SCALE

**AS BUILT PLANS:**  
 contractor: Haven's Construction  
 inspector: Larry Gann  
 company: K E Miller Engineering  
 .pdf by NWS, 11/06/08

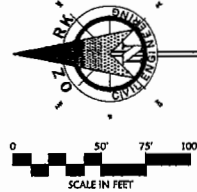
LOWE'S HOME CENTERS, INC.  
 1605 CURTIS BRIDGE ROAD  
 REG. DOCK  
 WILKESBORO, NC 28687  
 336.658.4000 (V) 336.658.3257 (F)



COVER SHEET  
 LOWE'S OF  
 N.W. WICHITA  
 MAIZE RD. & CENTRAL PARK ST.  
 PROJECT No. 04-0460  
 DRAWN BY: JG  
 CHECKED BY: SKT  
 WICHITA, KS.

ORIGINAL  
 ISSUE DATE:  
 PERMIT SET  
 ISSUE DATE:  
 CONSTRUCTION SET  
 ISSUE DATE: 8-17-07  
 DRAWING NUMBER:  
**1.5**





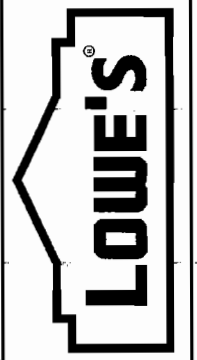
**BENCHMARK**  
 City of Wichita Disc on the northwest corner of 29th St. N. and Maize Rd.  
 Elevation = 1349.32 (M.S.L.)  
 Elevation = 161.92 (City Datum)

DATE	DESCRIPTION
11-14-07	CITY COMMENTS
4-08-08	REVISION 2



**zark**  
**Civil Engineering Inc.**  
 Bentonville • Kansas City • Austin

**LOWE'S HOME CENTERS, INC.**  
 1605 CURTIS BRIDGE ROAD  
 REEC DOCK  
 WILKESBORO, NC 28697  
 336.658.4000 (V) 336.658.3257 (F)



**GRADING AND DRAINAGE PLAN**  
**CONTINUED**  
**LOWE'S OF**  
**N.W. WICHITA**  
 MAIZE RD. & CENTRAL PARK ST.  
 WICHITA, KS.  
 PROJECT No. 04-0460 DRAWN BY: JG CHECKED BY: SM

ORIGINAL ISSUE DATE  
 PERMIT SET ISSUE DATE  
 CONSTRUCTION SET ISSUE DATE: 8-12-07  
**DRAWING NUMBER:**  
**8.1**

N 88°41'48" E 2632.22'

N 00°02'43" W 1316.43'

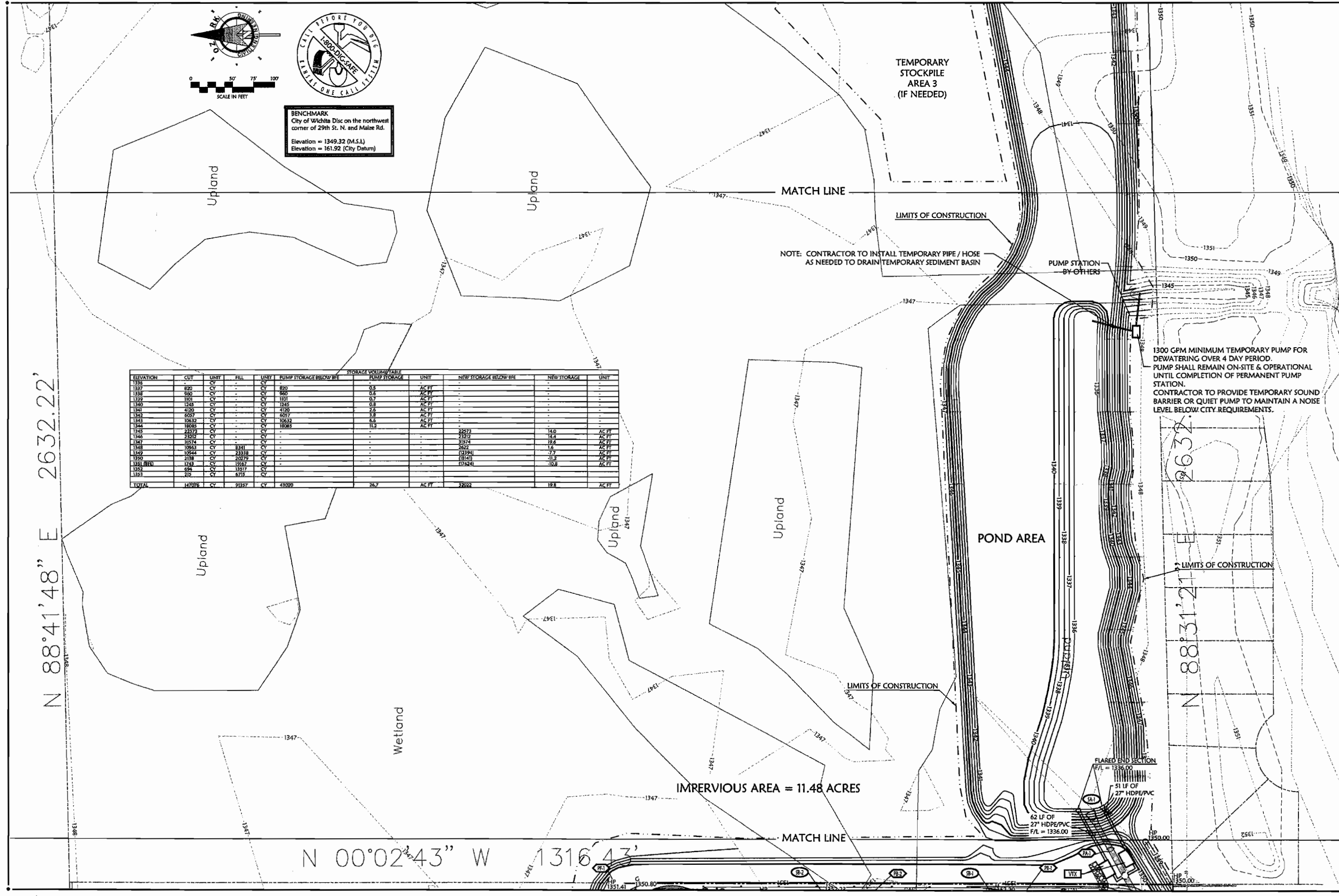
ELEVATION	CUT	UNIT	FILL	UNIT	STORAGE VOLUME TABLE		UNIT	NEW STORAGE BELOW BFE	NEW STORAGE	UNIT
					PUMP STORAGE BELOW BFE	PUMP STORAGE				
1336	820	CU			0.5	AC FT				
1338	960	CU			0.5	AC FT				
1339	1101	CU			0.5	AC FT				
1340	126	CU			0.8	AC FT				
1341	4120	CU			2.6	AC FT				
1342	6057	CU			8.8	AC FT				
1343	10632	CU			16.2	AC FT				
1344	18083	CU			11.3	AC FT				
1345	24573	CU			25.73	AC FT	14.0			AC FT
1346	31512	CU			23.12	AC FT	14.4			AC FT
1347	31574	CU			3174	AC FT	19.6			AC FT
1348	10963	CU	8341		2622	AC FT	1.6			AC FT
1349	12944	CU	23338		13394	AC FT	-7.7			AC FT
1350	3138	CU	20272		18141	AC FT	-11.2			AC FT
1351 (BFE)	1743	CU	19167		17424	AC FT	-10.8			AC FT
1352	824	CU	13317							
1353	312	CU	6735							
<b>TOTAL</b>	<b>147076</b>	<b>CU</b>	<b>91357</b>	<b>CU</b>	<b>43020</b>	<b>26.7</b>	<b>AC FT</b>	<b>32024</b>	<b>19.8</b>	<b>AC FT</b>

IMPERVIOUS AREA = 11.48 ACRES

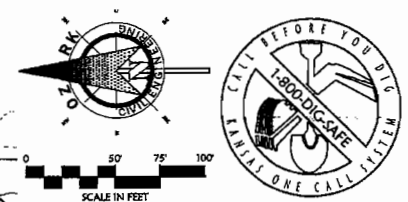
TEMPORARY STOCKPILE AREA 3 (IF NEEDED)

1300 GPM MINIMUM TEMPORARY PUMP FOR DEWATERING OVER 4 DAY PERIOD. PUMP SHALL REMAIN ON-SITE & OPERATIONAL UNTIL COMPLETION OF PERMANENT PUMP STATION. CONTRACTOR TO PROVIDE TEMPORARY SOUND BARRIER OR QUIET PUMP TO MAINTAIN A NOISE LEVEL BELOW CITY REQUIREMENTS.

NOTE: CONTRACTOR TO INSTALL TEMPORARY PIPE / HOSE AS NEEDED TO DRAIN TEMPORARY SEDIMENT BASIN

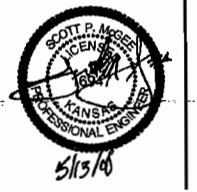


N 00°02'38" W 1311.19'



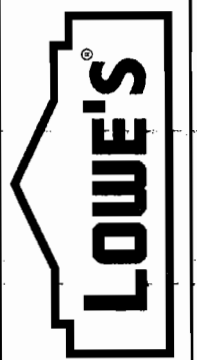
**BENCHMARK**  
City of Wichita Disc on the northwest corner of 29th St. N. and Maize Rd.  
Elevation = 1349.32 (M.S.L.)  
Elevation = 161.92 (City Datum)

REVISIONS	
DATE	DESCRIPTION
11-14-07	CITY COMMENTS
4-08-08	REVISION 2
5-12-08	REVISION 3



**Mark**  
Civil Engineering Inc.  
Bentonville • Kansas City • Austin

**LOWE'S HOME CENTERS, INC.**  
1606 CURTIS BRIDGE ROAD  
REEC DOCK  
WILKESSBORO, NC 28697  
336.658.4000 (V) 336.858.3257 (F)



GRADING AND DRAINAGE PLAN  
CONTINUED

LOWE'S OF  
N.W. WICHITA  
MAIZE RD. & CENTRAL PARK ST.  
WICHITA, KS

ORIGINAL  
ISSUE DATE:  
PERMIT SET  
ISSUE DATE:  
CONSTRUCTION SET  
ISSUE DATE: 8-17-07  
DRAWING NUMBER:

**8.2**

ELEVATION	CUY	UNIT	FILL	UNIT	STORAGE VOLUME TABLE		NEW STORAGE	UNIT
					PUMP STORAGE BELOW BFE	PUMP STORAGE		
1336								
1337	820	CY		CY	820	0.5		
1338	960	CY		CY	960	0.6		AC FT
1339	1101	CY		CY	1101	0.7		AC FT
1340	1240	CY		CY	1240	0.8		AC FT
1341	4190	CY		CY	4190	2.6		AC FT
1342	6057	CY		CY	6057	3.8		AC FT
1343	10632	CY		CY	10632	6.6		AC FT
1344	18085	CY		CY	18085	11.2		AC FT
1345	22573	CY		CY			22573	14.0
1346	23212	CY		CY			23212	14.4
1347	31534	CY		CY			31534	19.6
1348	10263	CY	8341	CY			2622	1.6
1349	10944	CY	23318	CY			12324	7.7
1350	213	CY	20279	CY			18141	-11.2
1351 (BFE)	1743	CY	19167	CY			17424	-10.8
1352	694	CY	13517	CY				
1353	219	CY	6716	CY				
TOTAL	147076	CY	91357	CY	43020	26.7	32022	19.8

LIMITS OF DISTURBANCE  
(IF STOCKPILE AREA 1 IS NEEDED)

TEMPORARY STOCKPILE AREA 1  
(IF NEEDED)

MAINTAIN MINIMUM 60'  
SEPARATION BETWEEN  
STOCKPILE AREA 1 AND  
STOCKPILE AREA 2

TEMPORARY STOCKPILE AREA 2  
(IF NEEDED)

LIMITS OF CONSTRUCTION

LIMITS OF DISTURBANCE  
(IF STOCKPILE AREA 2 IS NEEDED)

MAINTAIN MINIMUM 100'  
SEPARATION BETWEEN  
STOCKPILE AREA 2 AND  
STOCKPILE AREA 3

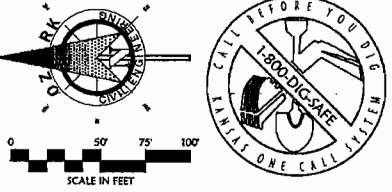
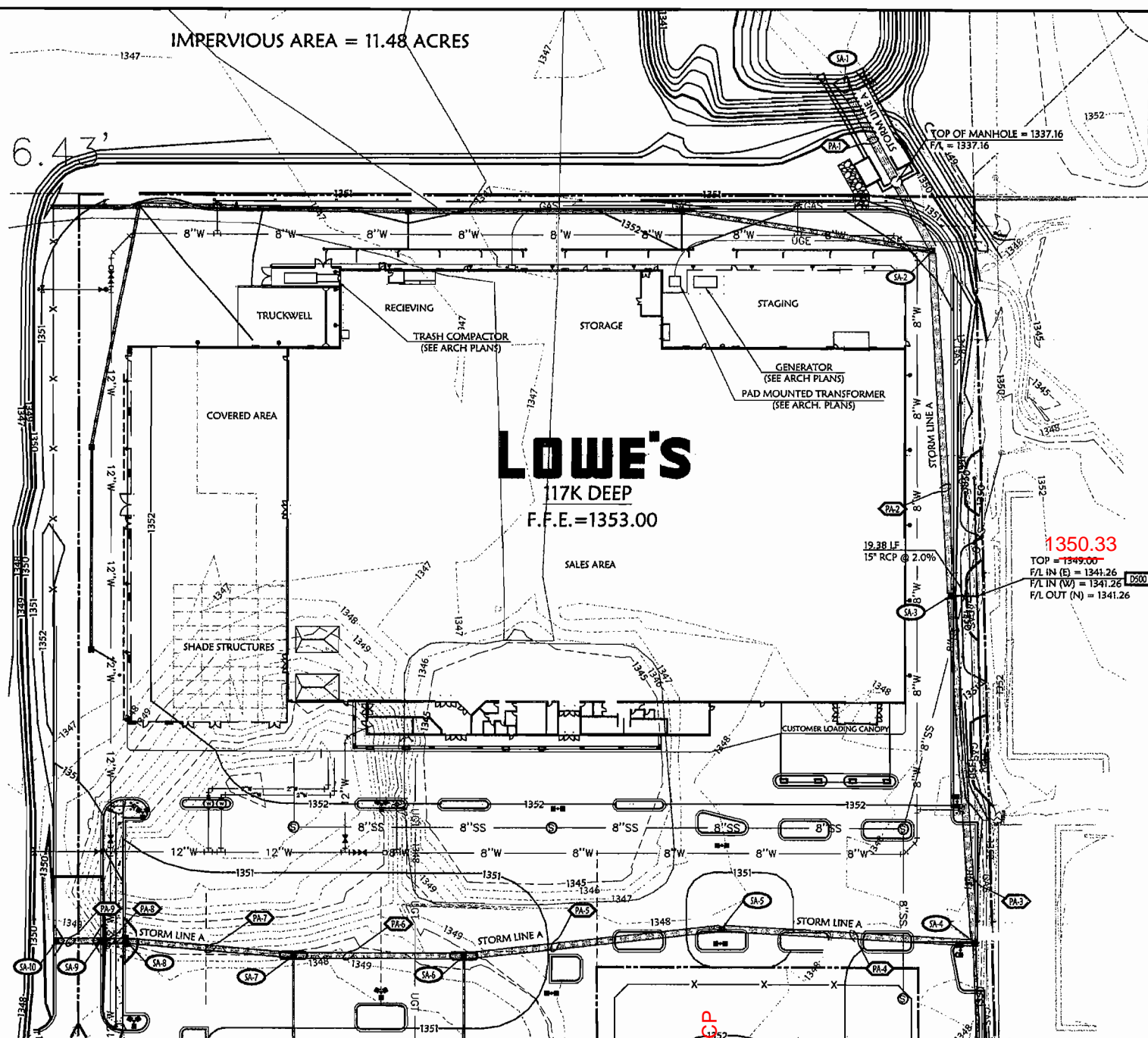
LIMITS OF DISTURBANCE  
(IF STOCKPILE AREA 3 IS NEEDED)

TEMPORARY STOCKPILE AREA 3  
(IF NEEDED)

MATCH LINE

LIMITS OF CONSTRUCTION

IMPERVIOUS AREA = 11.48 ACRES



**BENCHMARK**  
City of Wichita Disc on the northwest corner of 29th St. N. and Maize Rd.  
Elevation = 1349.32 (M.S.L.)  
Elevation = 161.92 (City Datum)

**GRADING PROPOSED FEATURES**

---	BOUNDARY LINE
---	RIGHT OF WAY LINE
---	EASEMENT LINE
---	CONCRETE CURB AND GUTTER
X	FENCE
---	GUARD RAIL
---	RETAINING WALL
---	WATER SERVICE
---	SANITARY SEWER SERVICE
---	UNDERGROUND ELECTRIC SERVICE
---	UNDERGROUND TELEPHONE SERVICE
---	OVERHEAD ELECTRIC SERVICE
---	OVERHEAD TELEPHONE SERVICE
---	FIBER OPTIC CABLE SERVICE
---	GAS SERVICE
X	SPOT ELEVATIONS:
○	TOP OF CURB
○	CENTER OF CURB
○	TOP OF GRADE (BEHIND TOP OF WALL)
○	BOTTOM OF GRADE (AT FRONT OF WALL)
○	FINISHED POINT
○	EDGE OF PAVEMENT
○	FLARED END SECTION

RIP-RAP PAD (SEE EROSION PLANS FOR SIZE)  
FIRE HYDRANT WITH GUARD POSTS  
UTILITY POLE  
WATER LINE TEE, BEND, VALVE, AND PLUG

**GRADING DETAILS**

Items labeled by the following symbols are shown in this sheet and referenced on detail sheets, which are included as part of this set of plans.

DB1	FRENCH DRAIN DETAIL
DB2	CLEANOUT DETAIL
DB3	CITY OF WICHITA, KANSAS DROP-INLET DETAIL
DB4	VORTYCHS STORMWATER TREATMENT SYSTEM

**GRADING AND DRAINAGE NOTES:**

INFORMATION PERTAINING TO UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD LOCATIONS WHEN POSSIBLE. BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS IN ADVANCE OF ANY MAJOR TRENCHING. IF CLEARANCES ARE LESS THAN SPECIFIED ON THESE PLANS OR IF WORK FOR A UTILITY IS ENCOUNTERED, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER AND THE CITY ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

ALL STRUCTURES LOCATED WITHIN A.C.M. OR OTHERWISE NOTED ON THESE PLANS SHALL BE CONTRACTED PER THE HIGHWAY DEPARTMENT STANDARDS. IF STRUCTURES ARE NOT PROTOTYPICAL OR CONTRACTOR CANNOT ACQUIRE CONTRACTOR SHALL NOTIFY CITY ENGINEER, INC. FOR REVIEW AND APPROVAL.

WHERE THE WORD PIPE IS USED ON THESE PLANS, THE CONTRACTOR HAS THE OPTION TO BID MATERIAL WITH A=0.02 OR LESS.

CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OR REMOVAL OF EXISTING UNDERGROUND UTILITIES EXCEPT FOR UTILITY NOTED AS NOT TO BE MOVED.

CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES ON ADJUSTING EXISTING UTILITY LINE AS REQUIRED BY CUT AND FILL AT NO ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF DRAINAGE, EROSION, AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET COVA, FEDERAL, STATE AND LOCAL REGULATIONS PERTINENT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS.

ALL STORM DRAIN PIPES ARE MEASURED FROM CENTER OF STRUCTURES AND END OF FLARED END SECTIONS.

RETAINING WALLS SHALL BE CONSTRUCTED TO EXTEND A MINIMUM OF 6 INCHES ABOVE THE TOP OF FINISHED GRADE. CONTRACTOR SHALL REFER TO THE RETAINING WALL PLANS FOR CONSTRUCTION AND DESIGN SPECIFICATIONS. CONTRACTOR SHALL NOTIFY CITY ENGINEER, INC. FOR REVIEW AND APPROVAL. STORM DRAIN PIPE BEDDING SHALL BE INSTALLED PER DETAIL DB2 (SEE DETAIL DB2).

SEE EROSION CONTROL PLAN FOR RIP-RAP PAD SIZE.

CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL PRACTICES IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND CONSTRUCTION SCHEDULE. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING THE BARRIERS.

REMOVE GOOD TOPSOIL FROM AREAS TO BE GRADED AND FILLED, AND PRESERVE IT FOR USE IN FINISHING THE GRADING OF ALL CRITICAL AREAS.

SCAFFOLD AREA TO RECEIVE TOPSOIL TO A MINIMUM DEPTH OF 3 INCHES BEFORE PLACING TOPSOIL PER OWNER/DEVELOPER, CITY AND/OR HIGHWAY DEPARTMENT STANDARDS AND SPECIFICATIONS.

CLEAR AND GRASS AREAS TO BE FILLED, REMOVE TREE, VEGETATION, ROOTS, OR OTHER DEBRIS AND OTHER MATERIAL THAT MIGHT AFFECT THE STABILITY OF THE FILL.

ENSURE THAT FILL MATERIAL IS FREE OF BRUSH, RUBBER, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER MATERIALS INAPPROPRIATE FOR CONSTRUCTION FILL.

DO NOT INCORPORATE FRESH MATERIAL OR SOFT, MUCK, OR HIGHLY COMPRESSIBLE MATERIAL INTO FILL SLOPES.

KEEP DRAINAGE AND OTHER WATER CONVEYANCE MEASURES FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.

PERMANENTLY STABILIZE ALL GRADED AREAS AFTER FINAL GRADING IS COMPLETED ON EACH AREA OF THE GRADING PLAN. APPLY TEMPORARY STABILIZATION MEASURES ON ALL GRADED AREAS WHEN WORK IS TO BE INTERRUPTED OR CEASED (SEE EROSION CONTROL PLAN).

CONTRACTOR SHALL MATCH TOP OF PROPOSED DRAINAGE STRUCTURES WITH PROPOSED GRADE. IF A DISCREPANCY OCCURS BETWEEN PROPOSED GRADE AND PROPOSED STRUCTURE TOP, THE GRADING SHALL CORRECT. IF THE DISCREPANCY IS MORE THAN 4 INCHES THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.

ALL UTILITIES, INCLUDING STORM SEWER, SHOWN WITHIN PUBLIC EASEMENTS OR RIGHT OF WAYS SHALL BE CONSTRUCTED TO THE GOVERNING AGENCY SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE CONSTRUCTED TO THE GOVERNING AGENCY SPECIFICATIONS, WHICH MAY BE MORE STRINGENT. IF THERE IS A QUESTION AS TO WHICH SPECIFICATIONS SHOULD APPLY THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.

ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, ALL EXISTING TREES, ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF OFF SITE. UNLESS OTHERWISE NOTED, ANY REMAINING ON SITE SHALL BE SUBJECT TO LOCAL ORDINANCES AND/OR THE OWNER/DEVELOPER STANDARDS AND SPECIFICATIONS. (SEE DEMOLITION PLAN).

ALL DRAINAGE STRUCTURES SHALL BE PRE-CAST.

ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC LOADS AND BE INSTALLED ACCORDINGLY.

CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT OF WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONDUCT UTILITY LOCATING COMPANY (STATE CALL SYSTEM) AND LOCATE ALL UTILITIES PRIOR TO GRADING STATE.

SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.

AFTER PERMITS HAVE BEEN OBTAINED & EROSION CONTROL MEASURES INSTALLED, THE CONTRACTOR SHALL GRASS BUILDING PAD, GARDEN BEDS, & AREAS TO 1/2" OF UNGRADED AREA PER SECTION 0250, DIVISION 2 OF LOWE'S STANDARD SITE SPECIFICATIONS.

IMMEDIATELY APPLY & COMPACT STONE BASE FOR BUILDING PAD TO 4" PRIOR TO EXCAVATING INTERIOR & PERIMETER FOOTINGS.

FRENCH DRAINS SHALL BE INSTALLED AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR AS SHOWN ON PLANS PER DETAIL DB1. (SEE DETAIL DB1).

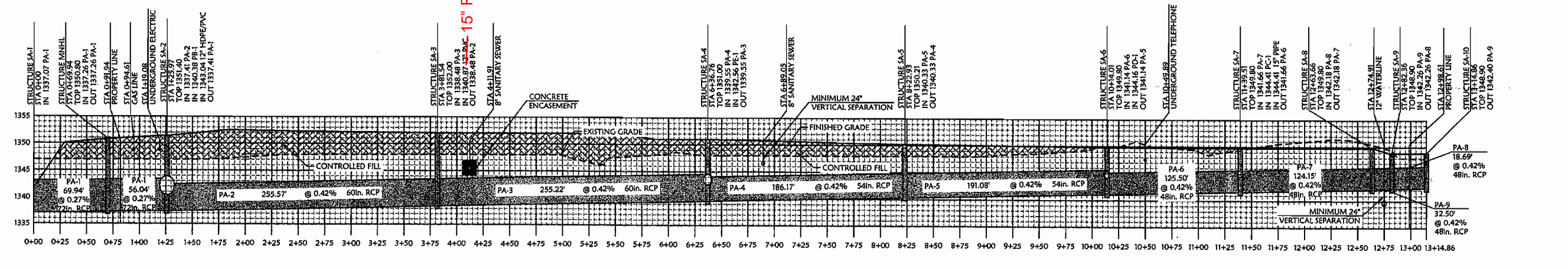
GENERAL CONTRACTOR SHALL PROVIDE 7" x 2" x 6" PRECAST CONCRETE ARCH AT ALL CLEANOUTS OUTSIDE OF BUILDING AND IN PAVED AREAS.

ALL ROOF DRAINS TO BUILDING SHALL END OUTSIDE THE BUILDING LIMITS AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT THE END. (SEE ARCH PLANS FOR EXACT SIZE AND LOCATION OF ROOF DRAINS)

ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH DIVISION 2 OF LOWE'S STANDARD SITE SPECIFICATIONS.

**DRAINAGE STRUCTURE SCHEDULE**

STRUCTURE NUMBER	STRUCTURE	TOP OF	DETAIL NUMBER	INLET IN (INCHES) & DIRECTION	INLET OUT (INCHES) & DIRECTION	INLET IN (FEET) & DIRECTION	INLET OUT (FEET) & DIRECTION	DRAINAGE AREA	CPI	TOTAL CPI	PIPE NUMBER	PIPE LENGTH & SLOPE
SA-10	CURB INLET	1349.40	DB17	1349.25 48" RCP	1349.25 48" RCP	1349.25 48" RCP	1349.25 48" RCP	.28 AC	1.99	13.92	PA-9	83 LF @ 0.42%
SA-9	CURB INLET	1349.40	DB17	1349.25 48" RCP	1349.25 48" RCP	1349.25 48" RCP	1349.25 48" RCP	.37 AC	3.44	80.36	PA-8	19 LF @ 0.42%
SA-8	DOUBLE CURB INLET	1350.30	DB17	1349.15 48" RCP	1349.15 48" RCP	1349.15 48" RCP	1349.15 48" RCP	.43 AC	5.88	86.31	PA-7	24 LF @ 0.42%
SA-7	DROP INLET	1349.80	DB16	1349.65 48" RCP	1349.65 48" RCP	1349.65 48" RCP	1349.65 48" RCP	.67 AC	6.23	99.28	PA-6	126 LF @ 0.42%
SA-6	DROP INLET	1349.80	DB16	1349.14 48" RCP	1349.14 48" RCP	1349.14 48" RCP	1349.14 48" RCP	.84 AC	8.73	116.93	PA-5	191 LF @ 0.42%
SA-5	CURB INLET	1350.71	DB17	1349.33 54" RCP	1349.33 54" RCP	1349.33 54" RCP	1349.33 54" RCP	.74 AC	4.90	121.88	PA-4	186 LF @ 0.42%
SA-4	CURB INLET	1351.50	DB17	1349.25 54" RCP	1349.25 54" RCP	1349.25 54" RCP	1349.25 54" RCP	0.56 AC	3.71	133.89	PA-3	258 LF @ 0.42%
SA-3	CURB INLET	1352.30	DB17	1349.48 60" RCP	1349.48 60" RCP	1349.48 60" RCP	1349.48 60" RCP	.18 AC	1.19	138.17	PA-2	236 LF @ 0.42%
SA-2	DROP INLET	1351.40	DB16	1349.20 30" RCP	1349.20 30" RCP	1349.20 30" RCP	1349.20 30" RCP	1.14 AC	7.54	208.30	PA-1	142 LF @ 0.27%
SA-1	FLARED END SECTION	1337.07	DB23	1337.07 72" RCP	1337.07 72" RCP	1337.07 72" RCP	1337.07 72" RCP					



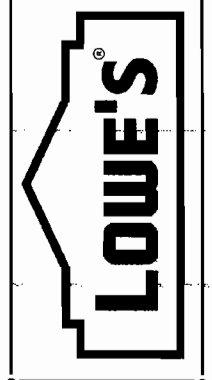
**STORM SEWER PROFILE A**  
VERTICAL SCALE: 1"=5'  
HORIZONTAL SCALE: 1"=50'

**REVISIONS**

DATE	DESCRIPTION	REVISION
04-08-08		2



**LOWE'S HOME CENTERS, INC.**  
1605 CURTIS BRIDGE ROAD  
REC'D DOCK  
WILKEBBOCK, NC 28697  
336.658.4000 (V) 336.658.3257 (F)

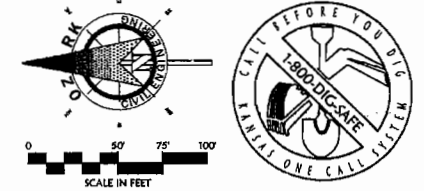
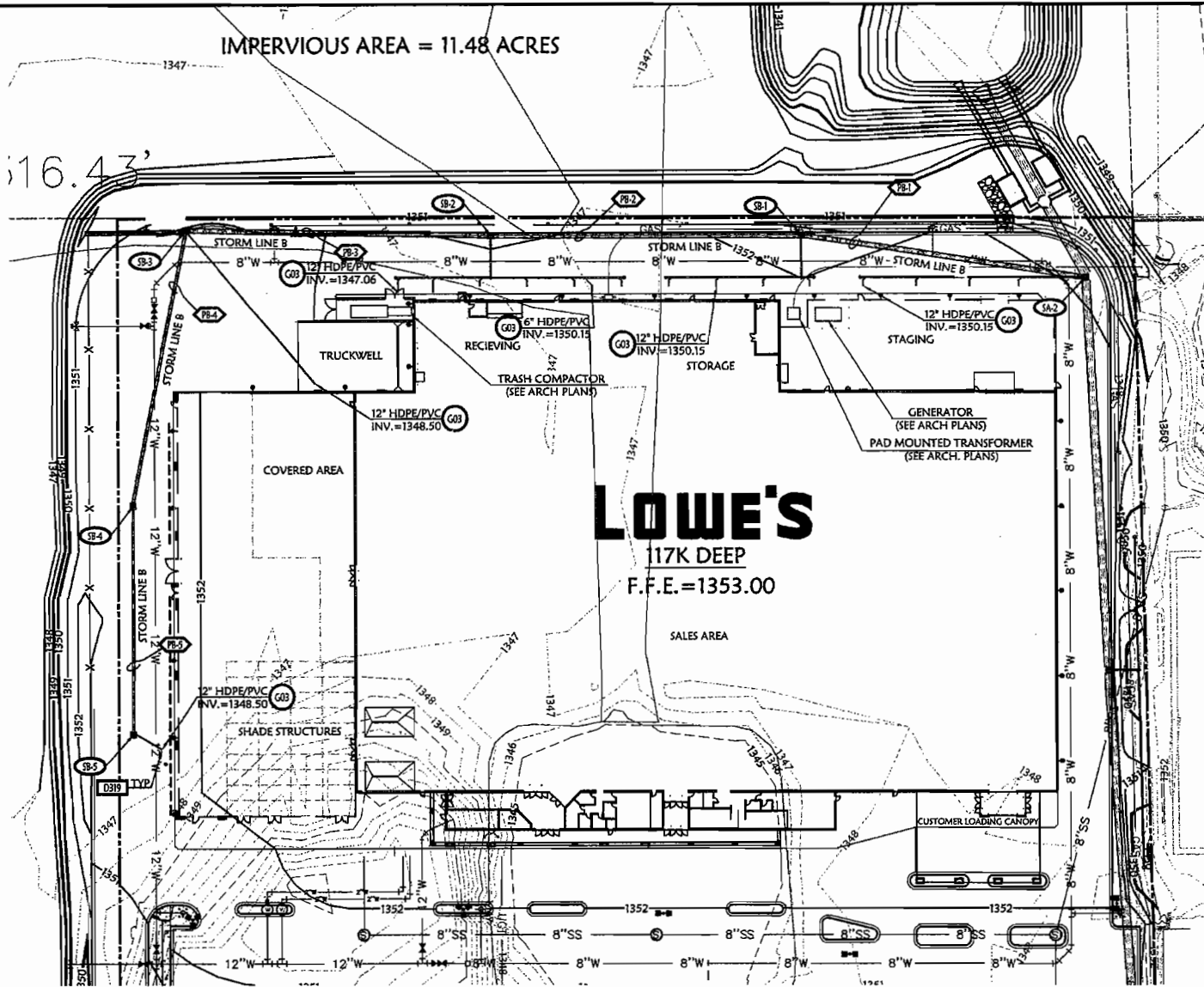


**STORM SEWER PLAN & PROFILE**  
LOWE'S OF  
N.W. WICHITA  
MAIZE RD. & CENTRAL PARK ST.  
WICHITA, KS.  
PROJECT No. 04-0460  
DRAWN BY: JG  
CHECKED BY: SA

ORIGINAL ISSUE DATE  
PERMIT SET ISSUE DATE  
CONSTRUCTION SET ISSUE DATE  
DRAWING NUMBER:  
**8.4**

IMPERVIOUS AREA = 11.48 ACRES

16.43'



**BENCHMARK**  
City of Wichita Disc on the northwest corner of 29th St. N. and Matze Rd.  
Elevation = 1349.32 (M.S.L.)  
Elevation = 161.92 (City Datum)

**GRADING PROPOSED FEATURES**

- BOUNDARY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- CONCRETE CURB AND GUTTER
- FENCE
- GUARD RAIL
- RETAINING WALL
- SANITARY SEWER SERVICE
- WATER SERVICE
- UNDERGROUND ELECTRIC SERVICE
- UNDERGROUND TELEPHONE SERVICE
- OVERHEAD ELECTRIC SERVICE
- OVERHEAD TELEPHONE SERVICE
- FIBER OPTIC CABLE SERVICE
- GAS SERVICE
- SPOT ELEVATIONS:
- X TOPO OF CURB
- C HEIGHTS OF CURB
- TO TOP OF GRADE (BEHIND TOP OF WALL)
- BOTTOM OF GRADE (AT FRONT OF WALL)
- 18\"/>

**GRADING DETAILS**

- FRENCH DRAIN DETAIL
- CLEANOUT DETAIL
- CITY OF WICHITA, KANSAS DRAIN DETAIL
- VORTEX STORMWATER TREATMENT SYSTEM

**GRADING AND DRAINAGE NOTES:**

INFORMATION PERTAINING TO UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD LOCATIONS WHERE POSSIBLE. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES BY EXCAVATING TEST PITS BY SPACES AT ALL UTILITY CROSSINGS IN ADVANCE OF MACHINE THROUGHAGE. IF CLEARANCES ARE LESS THAN SHOWN ON THESE PLANS OR IF VARIATIONS ARE DETECTED, CONTACT THE ENGINEER AND THE OWNER. CONSTRUCTION SHALL BE STOPPED IMMEDIATELY UPON CONTACT WITH AN UNIDENTIFIED UTILITY. CONTACT THE ENGINEER AND THE OWNER IMMEDIATELY UPON CONTACT WITH AN UNIDENTIFIED UTILITY.

ALL STRUCTURES LOCATED WITHIN R.O.W. OR OTHERWISE NOTED ON THESE PLANS SHALL BE CONSTRUCTED PER THE HIGHWAY DEPARTMENT STANDARDS. IF STRUCTURES ARE NOT IDENTICAL OR CONSTRUCTION CANNOT BE ACCURATELY LOCATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER IMMEDIATELY UPON CONTACT WITH AN UNIDENTIFIED UTILITY.

WHERE THE WORD PIPE IS USED ON THESE PLANS, THE CONTRACTOR HAS THE OPTION TO BID MATERIAL WITH 11\"/>

CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OR REMOVAL OF EXISTING UNDERGROUND UTILITIES SHOWN OR NOT SHOWN AT NO ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES ON ADJUSTING EXISTING UTILITY LINES AS REQUIRED BY CUT AND FILL AT NO ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF SHEETING, SINKING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET STATE, FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO THE INSTALLATION OF THE WORK SHOWN ON THESE DRAWINGS.

ALL STORM DRAIN PIPES ARE MEASURED FROM CENTER OF STRUCTURE AND END OF FLARED END TOP TO FINISHED GRADE. CONTRACTOR SHALL BE RESPONSIBLE TO EXTEND A MINIMUM OF 6 INCHES ABOVE THE TOP OF FINISHED GRADE. CONTRACTOR SHALL BE RESPONSIBLE TO THE REMAINING WALL PIPES FOR CONSTRUCTION AND DESIGN SPECIFICATIONS. CONTRACTOR SHALL NOTIFY CHASE CIVIL ENGINEERING, INC. IF REMAINING WALL PIPES DIFFER FROM THIS.

ALL DISTURBED AREAS AND SLOPES SHALL BE GRADED SMOOTH AND 1% OF TOP SOIL APPLIED. THE AREA SHALL BE SEEDING AND WATERED UNTIL GRASS GROWS THROUGH ESTABLISHED. (SEE LANDSCAPING GENERAL NOTES FOR SEEDING SPECIFICATIONS)

STORM DRAIN PIPE BEDDING SHALL BE INSTALLED PER DETAIL D505 (SEE DETAIL D505)

SEE EROSION CONTROL PLAN FOR RIP RAP PAD SIZES.

CONTRACTOR SHALL CONTRACT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL PRACTICES IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND CONSTRUCTION PRACTICE. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR IMPLEMENTING THE PMP.

REMOVE GOOD TOPSOIL FROM AREAS TO BE GRADED AND FIELDED, AND PRESERVE IT FOR USE IN FINISHING THE GRADING OF ALL CRITICAL AREAS.

CLARIFY AREAS TO RECEIVE TOPSOIL TO A MINIMUM DEPTH OF 6 INCHES BEFORE PLACING TOPSOIL PER CITY, METROPOLITAN, CITY AND/OR HIGHWAY DEPARTMENT STANDARDS AND SPECIFICATIONS.

CLEAR AND GRUB AREAS TO BE FILLED, REMOVE TREES, VEGETATION, ROOTS OR OTHER DEBRIS AND OTHER MATERIALS THAT WOULD AFFECT THE STABILITY OF THE FILL.

ENSURE THAT FILL MATERIAL IS FREE OF BRUSH, RUBBER, SCRAP LOGS, STUMPS, BUILDING DEBRIS AND OTHER MATERIALS INAPPROPRIATE FOR CONSTRUCTING STABLE BILLS.

DO NOT INCORPORATE FROZEN MATERIAL OR SOFT, MUCK, OR HIGHLY COMPRESSIBLE MATERIALS INTO FILL SLOPES.

KEEP DIVERSIONS AND OTHER WATER CONVEYANCE MEASURES FREE OF DEBRIS DURING ALL PHASES OF DEVELOPMENT.

PERMANENTLY STABILIZE ALL GRADED AREAS AFTER FINAL GRADING IS COMPLETED ON EACH AREA OF THE GRADING PLAN. ANY TEMPORARY STABILIZATION MEASURES ON ALL GRADED AREAS SHALL BE MAINTAINED OR DELAYED (SEE EROSION CONTROL PLANS).

CONTRACTOR SHALL MATCH TOP OF PROPOSED DRAINAGE STRUCTURES WITH PROPOSED GRADE. IF A DISCREPANCY OCCURS BETWEEN PROPOSED GRADES AND PROPOSED STRUCTURE TOPS, THE GRADING SHALL CORRECT. IF THE DISCREPANCY IS MORE THAN 6 INCHES THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.

ALL UTILITIES, INCLUDING STORM SEWER, SHOWN WITHIN PUBLIC EASEMENT OR RIGHT OF WAY SHALL BE CONSTRUCTED TO THE GOVERNING AGENCY'S SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE CONSTRUCTED TO THE CLIENT'S OR THE GOVERNING AGENCY'S SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. IF THERE IS A QUESTION AS TO WHICH SPECIFICATIONS SHOULD APPLY, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.

ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, ALL FENCING, TREES, ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE, UNLESS OTHERWISE NOTED. ANY BUILDING ON SITE SHALL BE SUBJECT TO LOCAL ORDINANCES AND/OR THE OWNER'S/OWNER'S STANDARDS AND SPECIFICATIONS. (SEE DEMOLITION PLAN)

ALL DRAINAGE STRUCTURES SHALL BE PRECAST.

ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (HDS) LOADING AND BE INSTALLED ACCORDANTLY.

CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY (UTILITY CALL SYSTEM) AND LOCATE ALL UTILITIES PRIOR TO GRADING/STREET.

SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.

AFTER PERMITS HAVE BEEN OBTAINED AND EROSION CONTROL MEASURES INSTALLED, THE CONTRACTOR SHALL GRASS/SEED/PLANT, GARDEN CENTER, AND MOWING TO 1\"/>

IMMEDIATELY APPLY & CONTACT WITHIN 24 HOURS OF BUILDING PAD TO 4\"/>

FRENCH DRAINS SHALL BE INSTALLED IF DIRECTED BY THE GEOTECHNICAL ENGINEER OR AS SHOWN ON PLAN PER DETAIL D518. (SEE DETAIL D518)

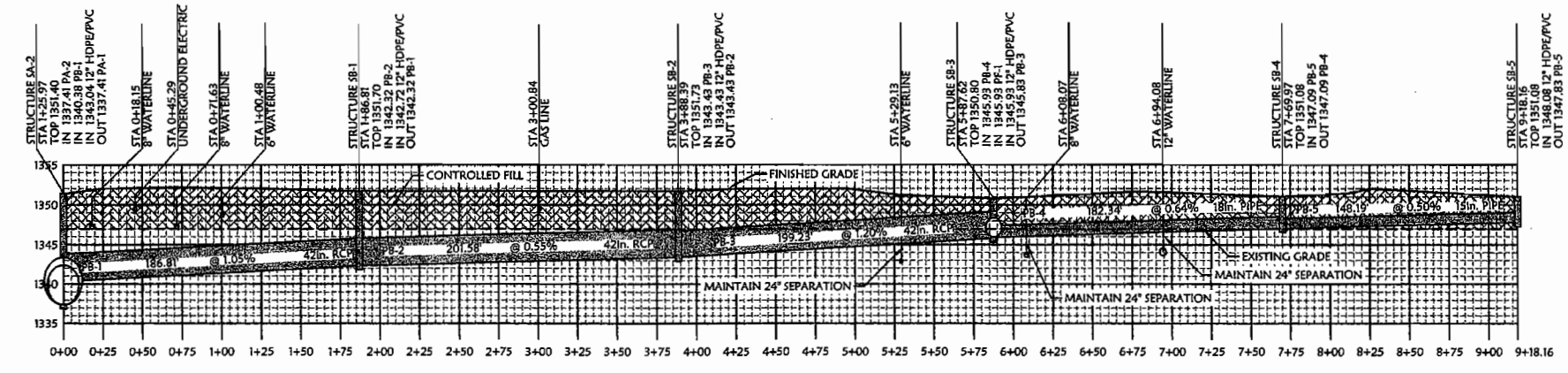
GENERAL CONTRACTOR SHALL PROVIDE 2\"/>

ALL ROOF DRAINS TO BUILDING SHALL END OUTSIDE THE BUILDING LIMITS AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT THE END. SEE ARCH. PLANS FOR EXACT LOCATION AND LOCATION OF ROOF DRAIN.

ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH DIVISION 2 OF LOUKEY STANDARD SITE SPECIFICATIONS.

**DRAINAGE STRUCTURE SCHEDULE**

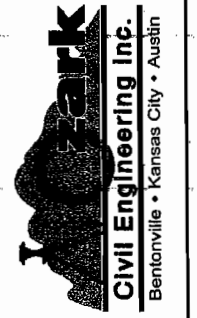
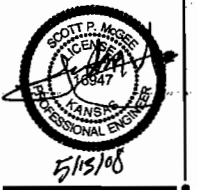
STRUCTURE NUMBER	STRUCTURE	TOP OF	DETAIL NUMBER	INV. IN INLET	INV. IN OUTLET	INV. IN INLET	INV. IN OUTLET	DRAINAGE AREA	CFI	TOTAL CFS	PIPE NUMBER	PIPE LENGTH & SLOPE
SB-5	DROP INLET	GRADE	D18	1349.08	1347.81	1347.81	1347.81	49 AC	4.35	4.35	PS-5	148 L.F. @ 0.50%
SB-4	DROP INLET	GRADE	D18	1347.09	1347.09	1347.09	1347.09	40 AC	3.72	8.27	PS-4	152 L.F. @ 0.64%
SB-3	CURB INLET	GRADE	D18	1345.95	1345.95	1345.95	1345.95	30.28	4.54	38.30	PS-3	199 L.F. @ 1.25%
SB-2	CURB INLET	GRADE	D18	1343.43	1343.43	1343.43	1343.43	47.52	0.79	49.44	PS-2	202 L.F. @ 0.53%
SB-1	CURB INLET	GRADE	D18	1342.32	1342.32	1342.32	1342.32	47.52	0.36	51.91	PS-1	187 L.F. @ 1.25%



**STORM SEWER PROFILE B**  
VERTICAL SCALE: 1"=5'  
HORIZONTAL SCALE: 1"=50'

**REVISIONS**

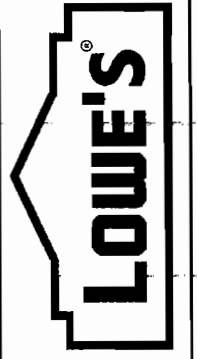
DATE	DESCRIPTION



**LOWE'S HOME CENTERS, INC.**  
1605 CURTIS BRIDGE ROAD  
REEF DOCK  
WILKEBORO, NC 28697

338.858.4000 (N) 338.858.3257 (F)

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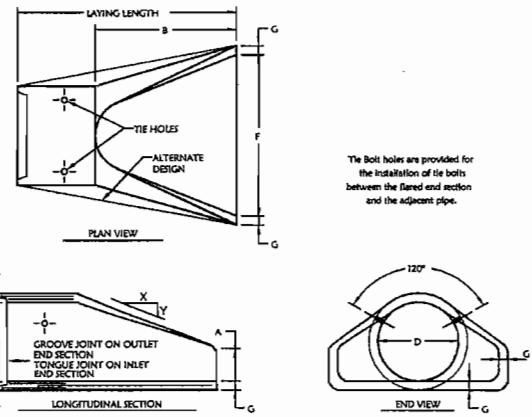
**STORM SEWER PLAN & PROFILE**  
STORM RUN B

**LOWE'S OF N.W. WICHITA**  
MAIZE RD. & CENTRAL PARK ST. WICHITA, KS.

PROJECT No. 04-0460 DRAWN BY: JC CHECKED BY: SM

ORIGINAL ISSUE DATE:  
PERMIT SET ISSUE DATE:  
CONSTRUCTION SET ISSUE DATE: 8-17-07  
DRAWING NUMBER:  
**8.5**



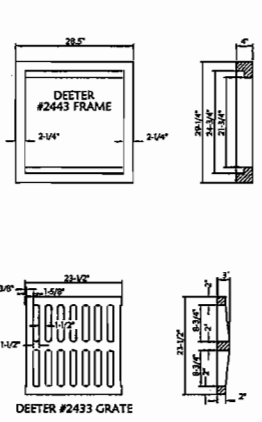


The bolt holes are provided for the installation of tie bolts between the flared end section and the adjacent pipe.

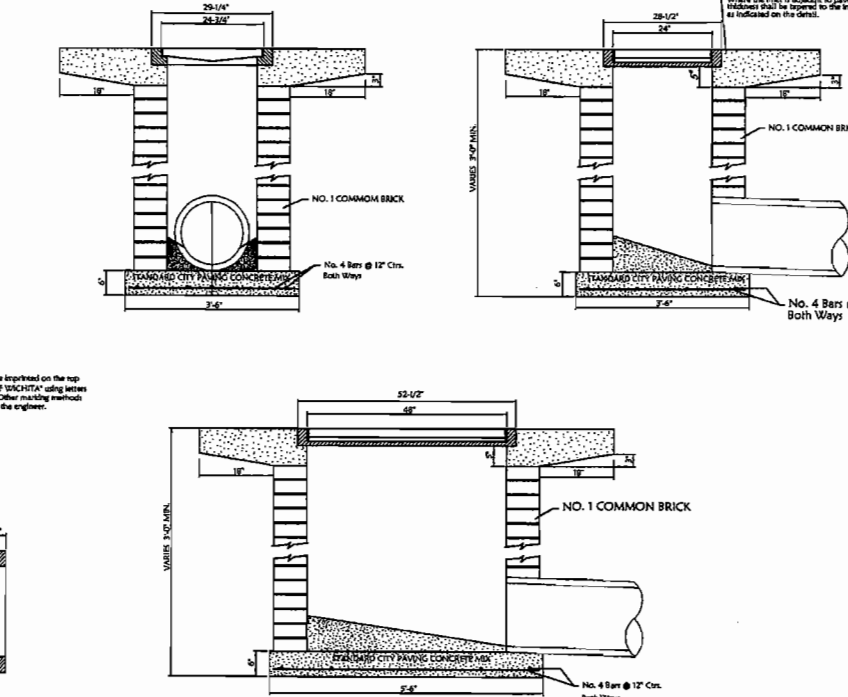
PIPE DIAMETER D INCHES	LAYING LENGTH INCHES	SLOPE	T INCHES	A INCHES	B INCHES	F INCHES	G INCHES	WEIGHT PER SECTION LBS.
12	6'-0"	2.5 to 1	2	4	24	24	2	930
15	6'-0"	2.5 to 1	2 1/4	6	27	30	2 1/4	740
18	6'-0"	2.5 to 1	2 1/2	9	27	36	2 1/2	990
21	6'-0"	2.5 to 1	2 3/4	9	36	42	2 3/4	1280
24	6'-0"	2.5 to 1	3	9 1/2	43 1/2	48	3	1930
27	6'-0"	2.5 to 1	3 1/4	10 1/2	49 1/2	54	3 1/4	1930
30	6'-0"	2.5 to 1	3 1/2	12	54	60	3 1/2	2390
33	6'-0"	2.5 to 1	3 3/4	13 1/2	59 1/2	66	3 3/4	2850
36	6'-0"	2.5 to 1	4	15	63	72	4	4000
42	6'-0"	2.5 to 1	4 1/2	21	63	78	4 1/2	5380
48	6'-0"	2.5 to 1	5	24	72	84	5	6590
54	6'-0"	2.5 to 1	5 1/2	27	81	90	5 1/2	8240
60	6'-0"	2.5 to 1	6	33	87	96	6	10300
66	6'-0"	2.5 to 1	6 1/2	39	93	102	6 1/2	12770
72	6'-0"	2.5 to 1	7	36	78	108	7	12330
78	6'-0"	2.5 to 1	7 1/2	36	90	114	7 1/2	14770
84	6'-0"	2.5 to 1	8	36	90	120	8	18150
90	6'-0"	2.5 to 1	8 1/2	41	87 1/2	132	8 1/2	20900

End section is manufactured in accordance with applicable portions of ASTM Specifications C76.

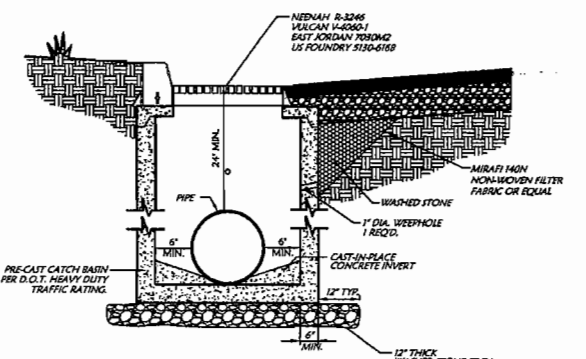
**NON-GASKETED PIPE FLARED END SECTIONS**



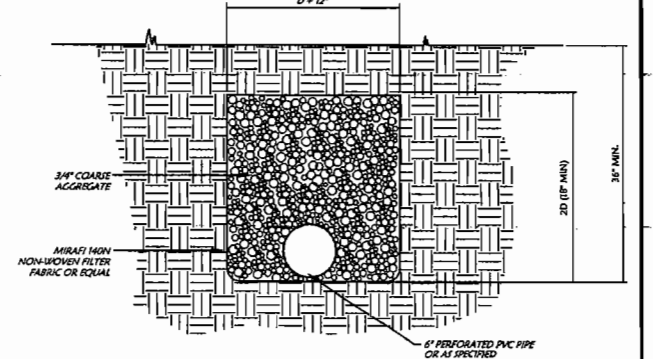
NOTE: Grates shall be impressed on the top surface with "CITY OF WICHITA" using letters at least 1/8" in height. Other marking methods may be approved by the engineer.



**CITY OF WICHITA, KANSAS DROP INLET DETAIL**



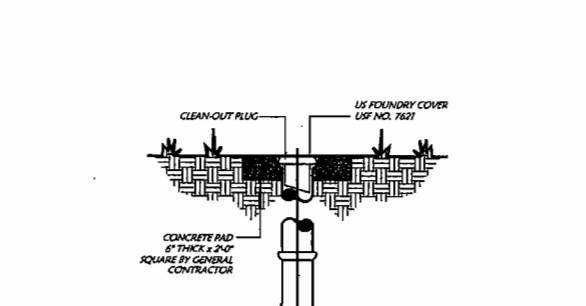
**CURB INLET**



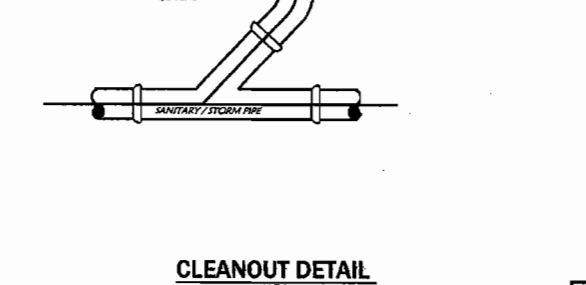
**FRENCH DRAIN**

REFERENCE SECTION 0260 OF LOWE'S DIVISION 2 STANDARD SITE SPECIFICATIONS AND PROJECT SPECIAL PROVISIONS

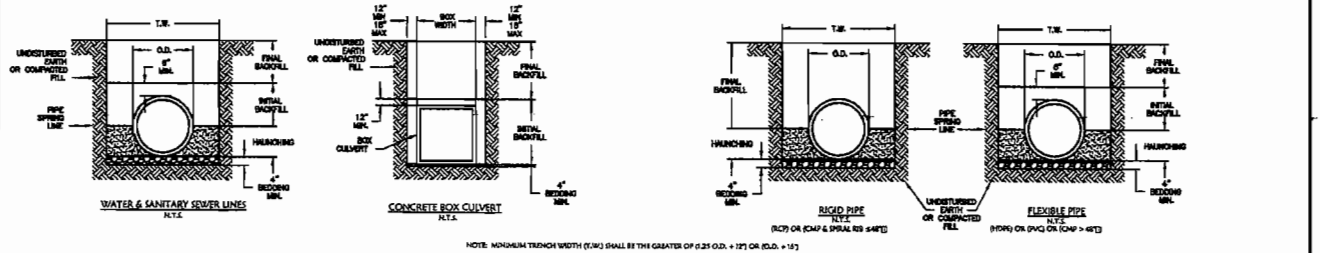
D = DIAMETER OF PIPE  
TO BE UTILIZED AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND/OR AS SHOWN ON THE PLANS.



**CONCRETE FLUME**



**CLEANOUT DETAIL**



**TRENCH AND BEDDING DETAILS**

TABLE 1: CLASSES OF FILL AND BACKFILL MATERIALS

ASTM D 2925 MATERIAL CLASS	ASTM D 2487 USE SOIL GROUP	MATERIAL TYPE	% PASSING		ATTERBORO LIMITS	
			1 1/2" BL. NO. 4	NO. 200	LL	PI
MA	NONH	MANUFACTURED OPEN GRADED AGGREGATE	100%	≤10%	<5%	NON PLASTIC
MB	NONH	MANUFACTURED DENSE GRADED AGGREGATE	100%	≤5%	<5%	NON PLASTIC
I	CU	COMAR-GRADED SOIL CLEAN	100%	≤5%	<5%	NON PLASTIC
	CP			≤5%		
	SP			≤5%		
II	GA	COMAR-GRADED SOIL W/ FINES	100%	≤5%	125 TO 500	≤4 OR <2" LINE
	GC			≤5%		≤4 OR >2" LINE
	JC			≤5%		≤4 OR <2" LINE
	JL			≤5%		≤4 OR <2" LINE
IIIA	HL	FINE-GRADED SOIL	100%	>50%	<50	≤4 OR <2" LINE
	CL					≤4 OR >2" LINE

- GENERAL NOTES:**
1. BEDDING SHALL BE CLASSIFIED AS REQUIRED BY LOCAL OR STATE CODES PERMITTING WITH GEOTECHNICAL ENGINEER AND OTHER APPROVAL. MATTER SOIL MAY BE USED FOR BEDDING PROVIDED IT MEETS THE REQUIREMENTS AND BACKFILL MATERIALS IN TABLE 1 (EXCLUDING CLAY).
  2. HUNCHING SHALL BE SLOTTED AROUND THE PIPE BY HAND TO REMOVE ROUGHNESS AND SHALL BE CLASS II OR CLASS III OR CLASS IV COMPACTED TO 95% STANDARD PROCTOR. FILL GRAVEL SHALL NOT BE USED AS A HUNCHING MATERIAL. CLASS II MATERIAL SHALL BE ALLOWED FOR 8" RIGID PIPE COMPACTED AT 95% STANDARD PROCTOR.
  3. INITIAL BACKFILL SHALL BE CLASS I OR CLASS II COMPACTED TO 95% STANDARD PROCTOR. CLASS II OR CLASS III SHALL BE USED FOR FLEXIBLE PIPE UNLESS OTHERWISE SPECIFIED.
  4. BACKFILL SHALL BE CLASS I OR CLASS II COMPACTED TO 95% STANDARD PROCTOR. CLASS II OR CLASS III SHALL BE USED FOR FLEXIBLE PIPE UNLESS OTHERWISE SPECIFIED.
  5. FINAL BACKFILL SHALL BE CLASS I OR CLASS II COMPACTED TO 95% STANDARD PROCTOR.
  6. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2925. SEE TABLE 1.
  7. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 12" LIFT BY ACCORDANCE WITH ASTM D 1557. CLASS II AND III MATERIAL SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
  8. FILL SALVAGED FROM DEMOLITION SHALL BE FREE OF ORGANIC AND ROCK LARGER THAN 2".
  9. ALL TRENCH EXCAVATIONS SHALL BE BLOTTED, BORED, SLOTTED, BENCHED, OR OTHERWISE SUPPORTED IN ACCORDANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.
  10. DESIGN ENGINEER SHALL DETERMINE ON THE PLANS WHERE WATER TIGHT JOINTS ARE TO BE LOCATED.
  11. SPREAD WITH OR INCLUSIVE SOIL AS NECESSARY TO PROVIDE A SUFFICIENT BASE AS DIRECTED BY GEOTECHNICAL ENGINEER OR OWNER.
  12. WHERE GRADED WATER IS REQUIRED CLASS I MATERIAL SHALL BE HUNCHING WITH A NON-WOVEN GEOTEXTILE INCLUDING BEDDING MATERIAL BETWEEN 4" & 4" THICK.
  13. CONTRACTOR SHALL REFER TO THE LATEST VERSION OF ASTM STANDARDS PRIOR TO CONSTRUCTION.
  14. CONTRACTOR SHALL REFER TO THE LATEST VERSION OF ASTM STANDARDS PRIOR TO CONSTRUCTION.

**REVISIONS**

DATE	DESCRIPTION

**Lowes**  
Civil Engineering Inc.  
Bentonville • Kansas City • Austin

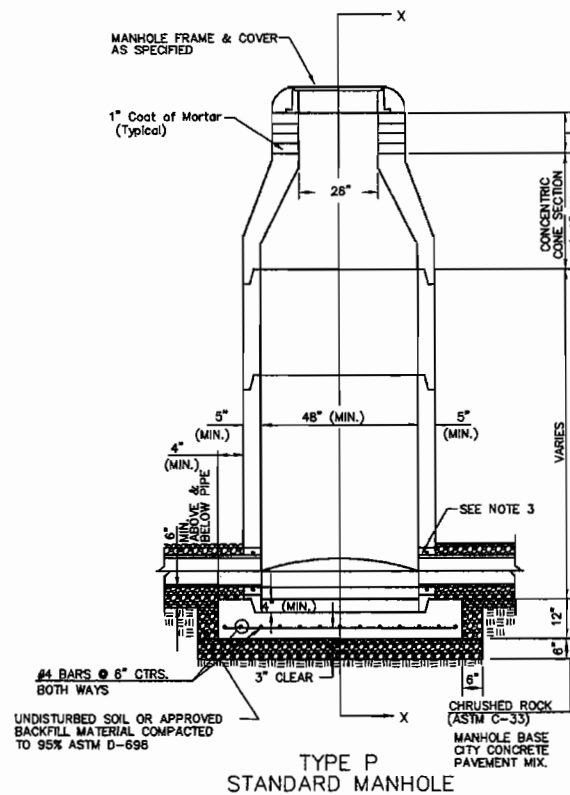
LOWE'S HOME CENTERS, INC.  
1665 CURTIS BRIDGE ROAD  
REC DOCK  
WILKESBORO, NC 28697  
336.658.4000 (V) 336.658.3257 (F)

**LOWE'S**

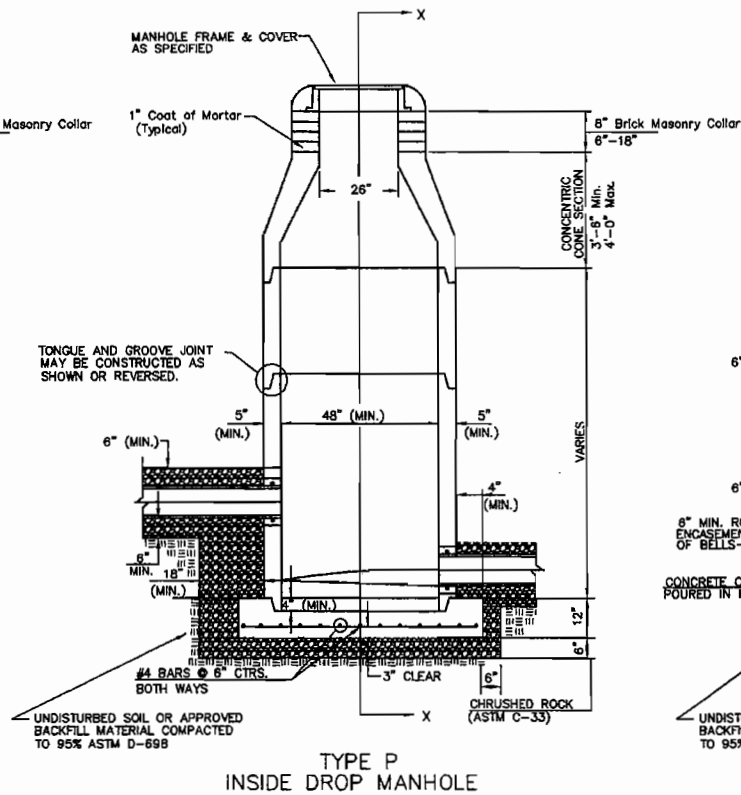
DETAIL SHEET  
LOWE'S OF  
N.W. WICHITA  
MAIZE RD. & CENTRAL PARK ST.  
WICHITA, KS.  
PROJECT NO. 04-0660  
DRAWN BY: JAC  
CHECKED BY: JAC

ORIGINAL ISSUE DATE:  
PERMIT SET ISSUE DATE:  
CONSTRUCTION SET ISSUE DATE: 8-17-07  
DRAWING NUMBER:  
**19**

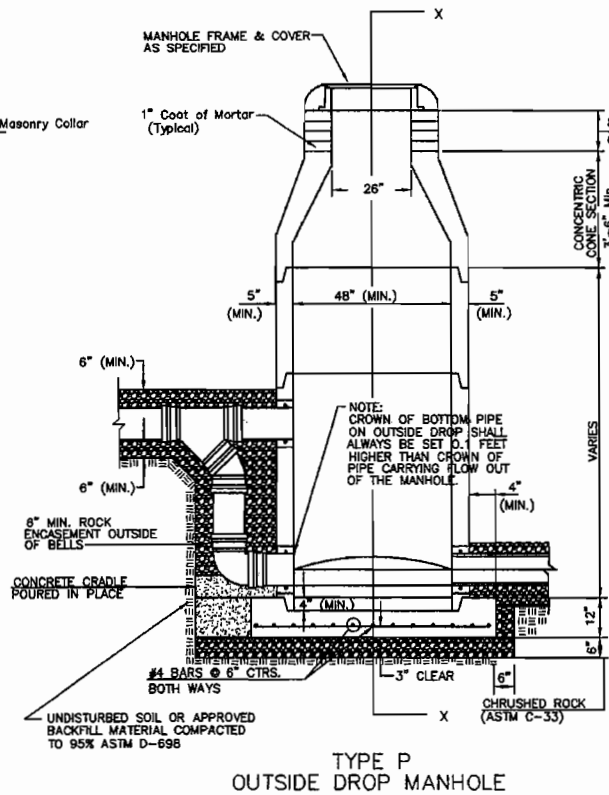
# SEWER APPURTENANCES DETAILS



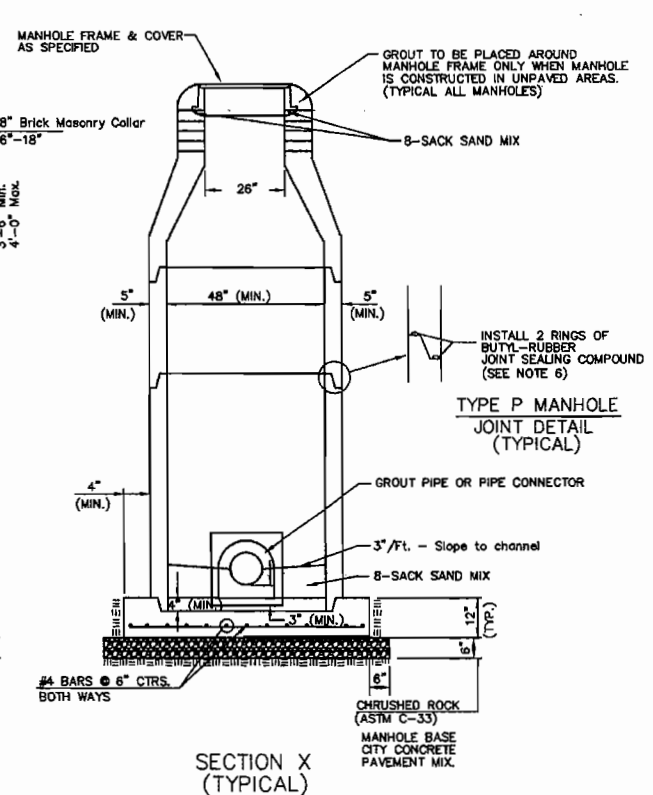
TYPE P STANDARD MANHOLE



TYPE P INSIDE DROP MANHOLE



TYPE P OUTSIDE DROP MANHOLE



SECTION X (TYPICAL)

GENERAL NOTES  
PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
5. EXTERIOR MANHOLE WALLS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
6. JOINT SEALING COMPOUND SHALL BE PER 804.4 OF STANDARD SPECIFICATIONS.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHARPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4". MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5". COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.

11. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
14. CRUSHED ROCK USED FOR ENCASEMENT AND BEDDING SHALL CONFORM TO ASTM C-33, GRADATION NO. 67, AND SHALL MEET ALL REQUIREMENTS FOR PORTLAND CEMENT CONCRETE PAVEMENT COARSE AGGREGATE. SECTION 406.2, CITY OF WICHITA STANDARD SPECIFICATIONS. ALL CRUSHED ROCK FOR BEDDING SHALL EXTEND TO THE LIMITS OF THE MANHOLE EXCAVATION.

15. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
16. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.
19. CRUSHED ROCK CONFORMING TO ASTM C-33 WITH A GRADATION OF NO. 87 SHALL BE INSTALLED AT THE BASE OF THE MANHOLE TO A DEPTH OF NO LESS THAN 6", AND SHALL EXTEND NO LESS THAN 6" OUTSIDE THE DIAMETER OF THE CONCRETE FLOOR OF THE MANHOLE.
20. WALL THICKNESS SHALL BE 1" GREATER THAN MANHOLE DIAMETER IN FEET.
21. THE FULL DIAMETER OF THE MANHOLE SHALL EXTEND THE ENTIRE DEPTH OF THE MANHOLE TO THE CONE SECTION. NO REDUCTION IN MANHOLE DIAMETER WILL BE ALLOWED.

REVISIONS	
DATE	DESCRIPTION

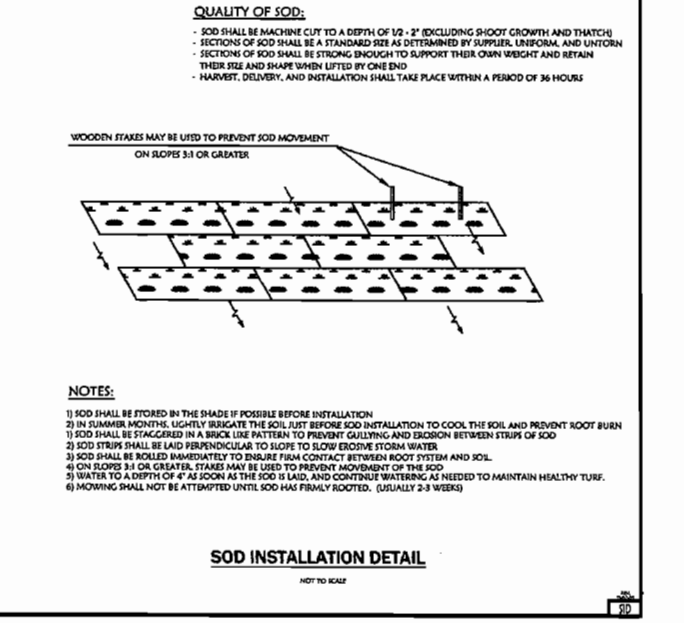
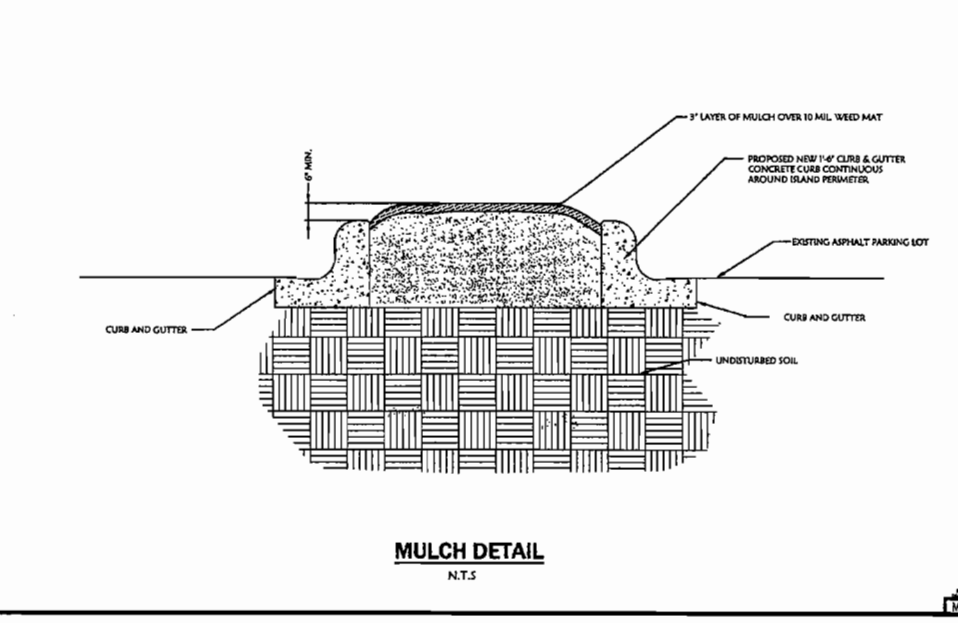
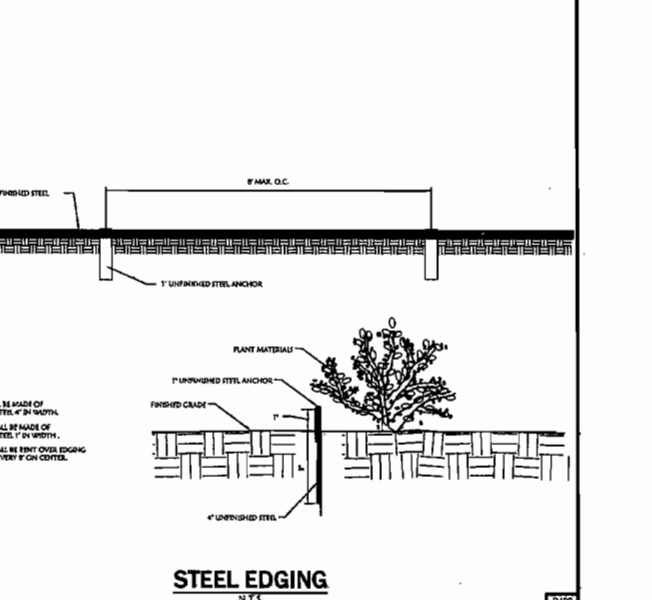
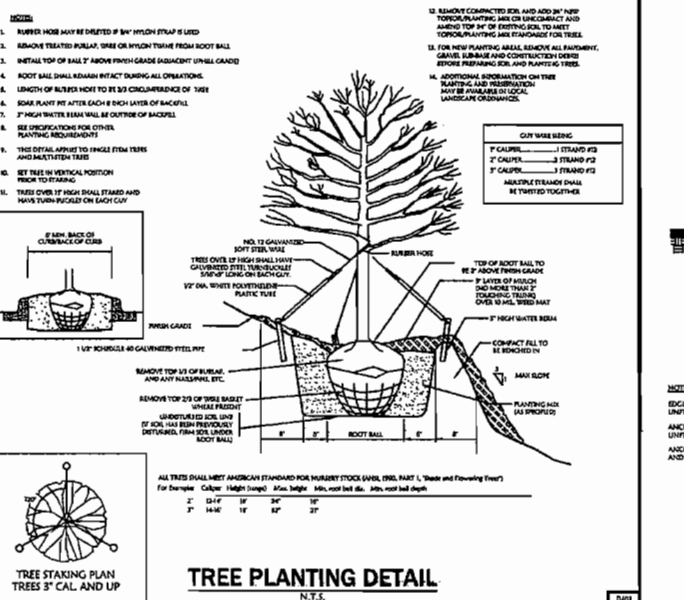
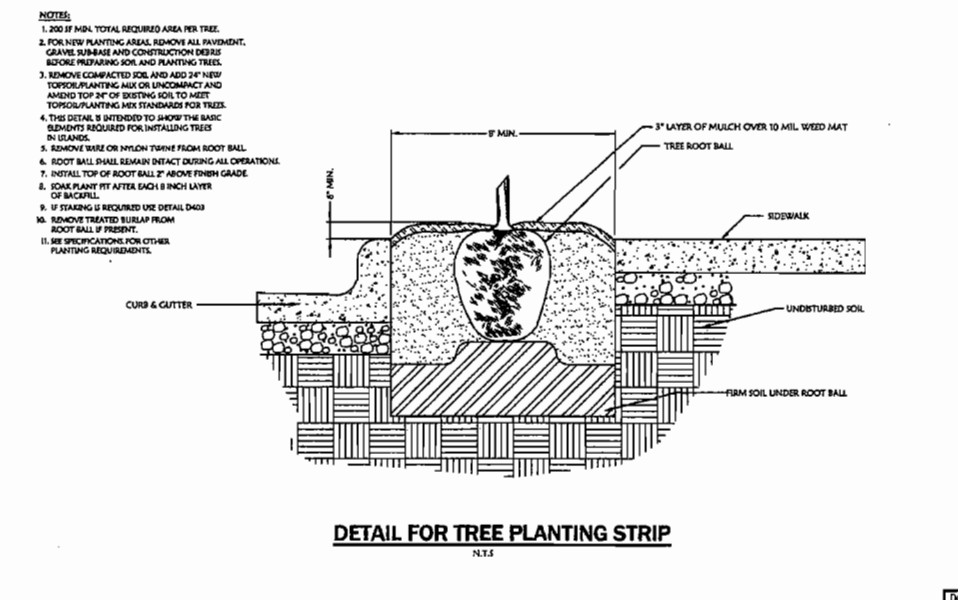
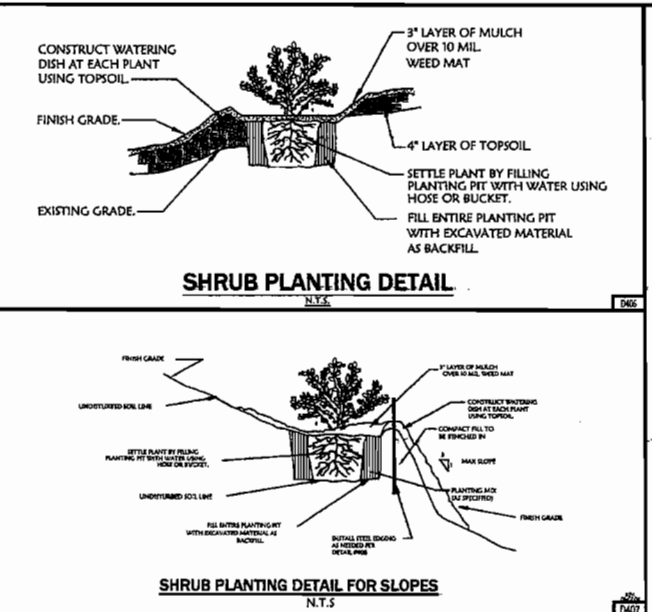
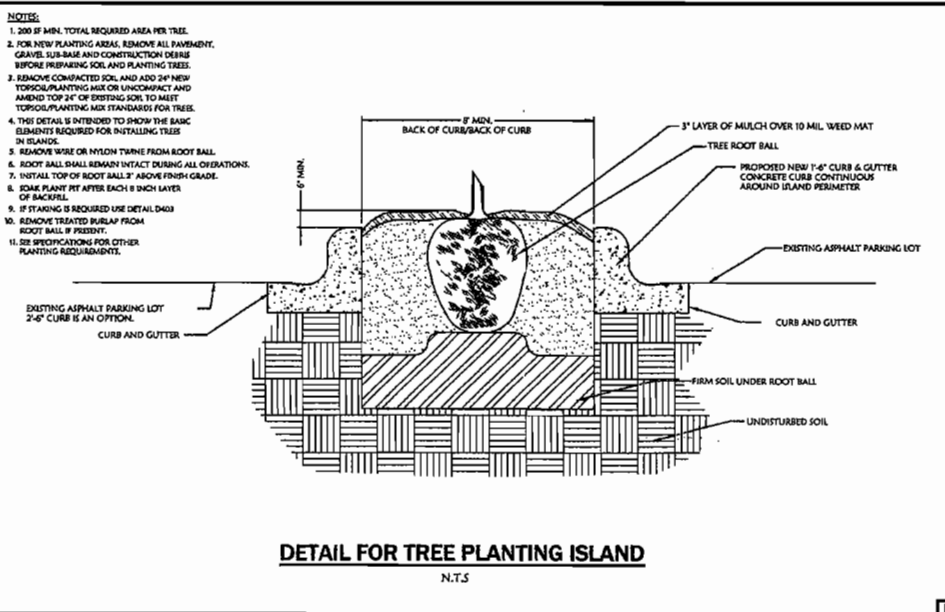
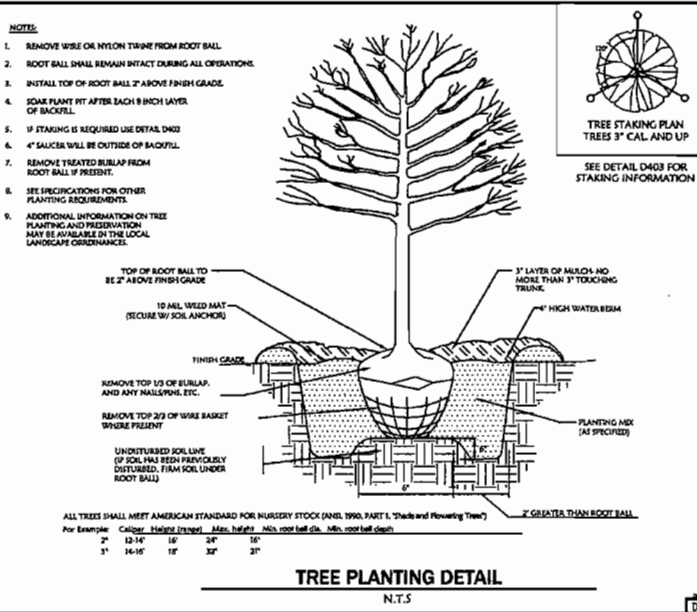
**Mark**  
Civil Engineering Inc.  
Bentonville • Kansas City • Austin

LOWE'S HOME CENTERS, INC.  
1605 CURTIS BRIDGE ROAD  
REEC DOCK  
WILKESBORO, NC 28687  
336.658.4000 (V) 336.658.3257 (F)

**LOWE'S**

DETAIL SHEET  
LOWE'S OF  
N.W. WICHITA  
MAIZE RD. & CENTRAL PARK ST.  
WICHITA, KS.  
PROJECT No. 04-0460 DRAWN BY: JG CHECKED BY: SA

ORIGINAL  
ISSUE DATE:  
PERMIT SET  
ISSUE DATE:  
CONSTRUCTION SET  
ISSUE DATE: 8-17-07  
DRAWING NUMBER:

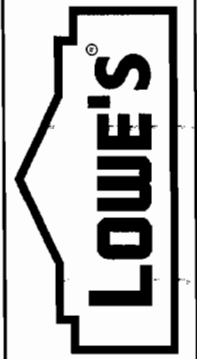


**REVISIONS**

DATE	DESCRIPTION



**LOWE'S HOME CENTERS, INC.**  
1605 CURTIS BRIDGE ROAD  
REEF DOCK  
WILKEBORO, NC 28697  
338.658.4000 (V) 336.658.3257 (F)



**DETAIL SHEET**

**LOWE'S OF WICHITA**  
N.W. WICHITA  
MAIZE RD. & CENTRAL PARK ST.  
WICHITA, KS.  
PROJECT No. 04-0660  
DRAWN BY: JAC  
CHECKED BY: SM

**ORIGINAL**

ISSUE DATE:	PERMIT SET
ISSUE DATE:	CONSTRUCTION SET
ISSUE DATE:	8-17-07
DRAWING NUMBER:	
<b>22</b>	



State of Kansas) ss  
Sedgwick County)

I, the undersigned, registered land surveyor of the State of Kansas, do hereby certify that the following described tract of land was surveyed on March 18, 2007 and the accompanying final plat was prepared and that all the monuments shown herein actually exist and their positions are correctly shown to the best of my knowledge and belief:

The west 908.98 feet of the South Half of the Northwest Quarter of Section 5, Township 27 South, Range 1 West of the Sixth Principal Meridian, Sedgwick County, Kansas, EXCEPT that part taken for road purposes described as beginning at the Northwest corner of the South Half of the Northwest Quarter of Section 5, Township 27 South, Range 1 West of the Sixth Principal Meridian, Sedgwick County, Kansas; Thence east along the North line of said South Half, a distance of 100.02 feet; Thence southwesterly a distance of 100 feet to a point 70 feet east of the West line of said South Half; Thence south parallel with said West line, a distance of 1,221.01 feet to the South line of said South Half; Thence west along said South line, a distance of 70.02 feet to the southwest corner of said South Half; Thence north 1,315.82 feet to the point of beginning.

Existing public dedications, rights of way, and easements being vacated by virtue of K.S.A. 12-512(b).



William P. Fox, L.S. # 789  
for Poe & Associates, Inc. Surveyor

State of Kansas) ss  
Sedgwick County)

Know all men by these presents that we, the undersigned, have caused the land described in the surveyor's certificate to be platted into Lots, Blocks and Reserves, to be known as "PEARSON COMMERCIAL ADDITION", Wichita, Sedgwick County, Kansas.

The utility easements are hereby granted to the public utilities as indicated for constructing, maintaining, operating, and repairing utilities.

The access easements are hereby granted to the appropriate governing body as shown hereon. Right of Way as shown is hereby dedicated to the public for streets.

Pursuant to the community unit plan, Reserves A & B are for shared signage. Reserve A is to be owned and maintained by Lot 1 its successors and assigns. Reserve B is to be owned and maintained by Lot 2 its successors and assigns.

The access easements are for ingress/egress purposes for the owner(s) of Pearson Commercial Addition and/or their invitees.

Pursuant to the community unit plan, the screening wall easement is for screening purposes for the benefit of the owner(s) of Pearson Commercial Addition. Utility lines may cross the wall easement when necessary.

A drainage plan has been developed for the plat. All drainage easements and/or rights of way shall remain at established grades, or as modified with the approval of the applicable public agency, and unobstructed to allow for the conveyance of stormwater. The drainage easements are for drainage purposes and the benefit of the owner(s) of Pearson Commercial Addition.

Bruce A. Pearson, Esther L. Pearson  
Bruce A. Pearson, Esther L. Pearson

State of Kansas) ss  
Sedgwick County)

BE IT REMEMBERED that on this 4 day of May, 2007, before me, the undersigned, a notary public in and for the County and State aforesaid came Bruce A. Pearson and Esther L. Pearson, husband and wife, personally known to me to be the same persons who executed this instrument and such persons duly acknowledged the execution of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public: *William P. Fox*  
Name: *William P. Fox*

My Appointment Expires: *4-11-2010*

State of Kansas) ss  
Sedgwick County)

This plat of "PEARSON COMMERCIAL ADDITION", Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita/Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 7th day of December, 2006  
Wichita/Sedgwick County Metropolitan Area Planning Commission.

*Darrell A. Downing*, Chair

*John L. Schlegel*, Secretary

State of Kansas) ss  
City of Wichita)

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this 22nd day of August, 2007 At the Direction of the City Council.

*Carl Brewer*, Mayor

*Karen Sublett*, City Clerk

*Don Brace*, County Clerk

State of Kansas) ss  
Sedgwick County)

This is to certify that this instrument was filed for record in the Register of Deeds office at 10:06:51 a.m., on the 22nd day of August, 2007, and is duly recorded.

*Tonya Buckingham*, Register of Deeds

*Tonya Buckingham*, Deputy

State of Kansas) ss  
Sedgwick County)

Reviewed in accordance with K.S.A. 58-2005 on this 3rd day of May, 2007

*Tricia L. Robello*, Deputy County Surveyor

Tricia L. Robello, L.S. # 1248  
Deputy County Surveyor  
Sedgwick County, Kansas

State of Kansas) ss  
Sedgwick County)

BE IT REMEMBERED that on this 4 day of May, 2007, before me, the undersigned, a notary public in and for the County and State aforesaid came Bruce A. Pearson and Esther L. Pearson, husband and wife, personally known to me to be the same persons who executed this instrument and such persons duly acknowledged the execution of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public: *William P. Fox*  
Name: *William P. Fox*

My Appointment Expires: *4-11-2010*

State of Kansas) ss  
Sedgwick County)

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Notary Public: *William P. Fox*  
Name: *William P. Fox*

My Appointment Expires: *4-11-2010*

State of Kansas) ss  
Sedgwick County)

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Notary Public: *William P. Fox*  
Name: *William P. Fox*

My Appointment Expires: *4-11-2010*

State of Kansas) ss  
Sedgwick County)

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IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public: *William P. Fox*  
Name: *William P. Fox*

My Appointment Expires: *4-11-2010*

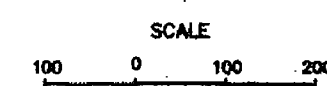
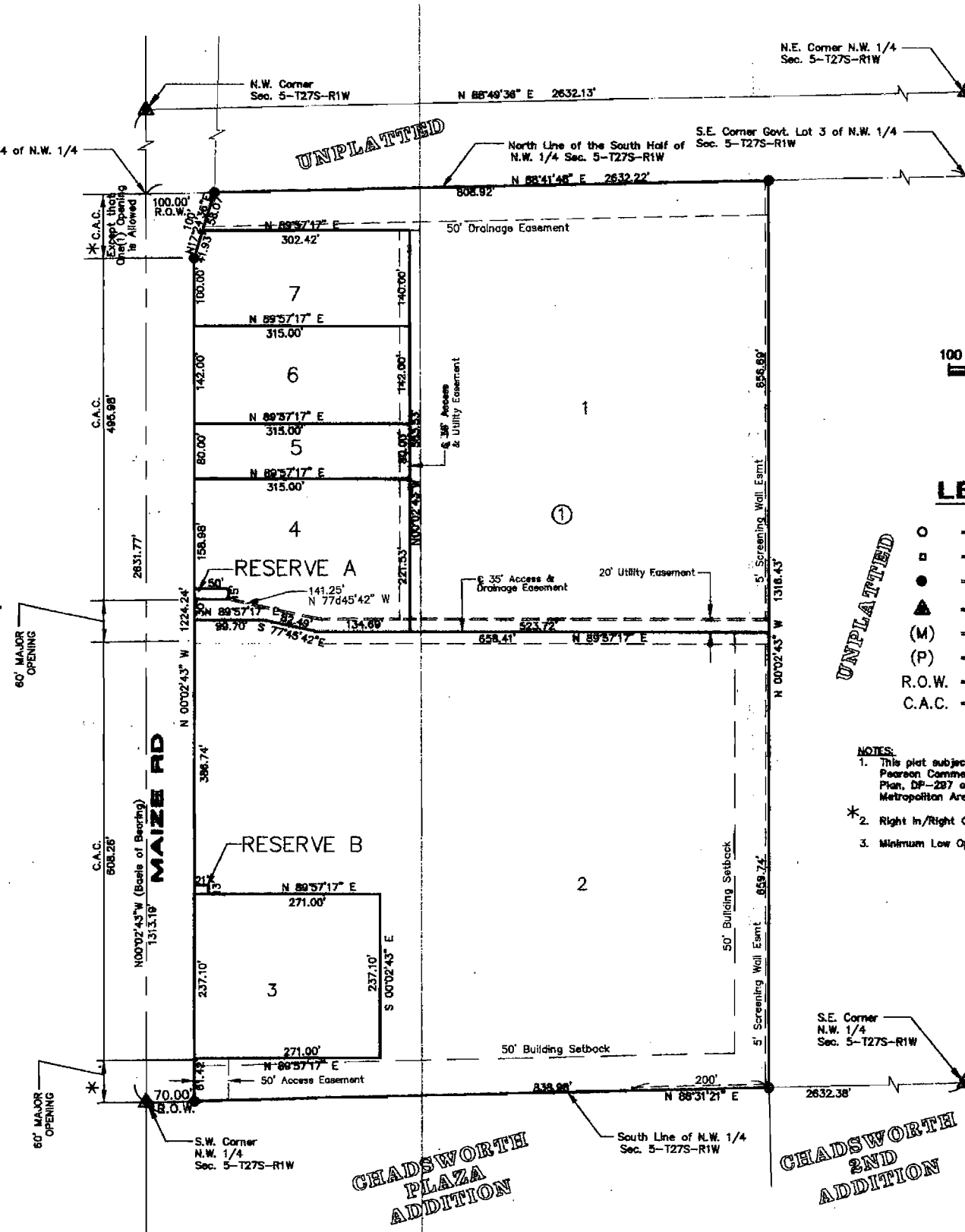
State of Kansas) ss  
Sedgwick County)

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IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public: *William P. Fox*  
Name: *William P. Fox*

CENTRAL PARK



- LEGEND**
- = 1/2" Iron Pipe (found)
  - = 5/8" Rebar w/ Mooring Cap (found)
  - = 5/8" Rebar w/ Poe Cap (set)
  - ▲ = Section Corner
  - (M) = Measured
  - (P) = Platted
  - R.O.W. = Right-of-Way
  - C.A.C. = Complete Access Control

- NOTES:**
- This plat subject to the provisions of Pearson Commercial Community Unit Plan, DP-287 on file with the Metropolitan Area Planning Department.
  - Right In/Right Out Only
  - Minimum Low Opening Elevation=1352.8 M.A.V.D.

PE  
POE and ASSOCIATES, INC.  
CONSULTING ENGINEERS  
2810 E. Central, Suite 200 in Wichita KS 67220 M 316/262-1114 F 316/262-1144

# PEARSON COMMERCIAL ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS  
LOCATED IN THE NW 1/4, SECTION 5, T27S, R1W OF THE 6 P.M.