








































































LEGEND					
	AC UNIT		GAS REGULATOR		SPRINKLER HEAD
	AREA DRAIN		GAS VALVE		SIGN
	BB GOAL		HZ CONTROL		SIGNAL POLE
	BLDG CORNER		IRON BAR		SPOTSHOT
	BORING HOLE		IRON PIPE		STORM MH
	BOLLARD		LIGHT TOWER		STUMP
	BM		LIGHT POLE		SPRINKLER VALVE
	BUSH		MCS 1		TELE BOX
	CLEANOUT		MCS 2		TRASH CAN
	CONIFEROUS TREE		MCS 3		TELEPHONE MH
	DECIDUOUS TREE		MCS 4		TELEPHONE
	DRAINAGE ESMT. MARKER		MCS 5		TRAVERSE PT
	ELEC BOX		MAIL BOX		CATY BOX
	ELEC MH		MANHOLE		UTILITY DROP
	ELEC METER		MONUMENT		UTILITY POLE
	FFE		MONITORING WELL		VENT PIPE
	FIRE HYD		PARKING METER		WATER BLOWOFF
	FLOWLINE		ROOF DRAIN		WALL ELEV
	FIBER MARKER		RR CROSS BUCK		WATER FAUCET
	FLAGPOLE		SANITARY MH		WATER METER
	GUY ANCHOR		SIGNAL BOX		WATER FOUNTAIN
	GASLINE MARKER		SECTION CORNER		WATER VALVE
	GAS METER		STEAM MH		WATER WELL

## PROJECT CONTROL

BM #1:	PUNCHMARK ON EAST RIM OF SANITARY MANHOLE IN MIDDLE OF 11TH STREET BETWEEN INDIANA AND MISSISSIPPI	ELEVATION:	913.36
BM #2:	PUNCHMARK ON EAST RIM OF SANITARY MANHOLE WEST OF WEST SIDEWALK ON INDIANA AND 380 FEET SOUTH OF 11TH STREET	ELEVATION:	955.98
HCP #100:	REBAR LOCATED ±140 FEET WEST OF WEST CURB OF MISSISSIPPI STREET AND ±25 FEET NORTH OF 11TH STREET CENTERLINE	NORTHING: EASTING:	241,574.96 2,095,685.00
HCP #300:	REBAR WITH LPE CAP LOCATED ±8 FEET EAST OF EAST CURB OF MISSISSIPPI STREET AND ±420 FEET SOUTH OF 11TH STREET CENTERLINE	NORTHING: EASTING:	241,137.94 2,095,678.89
HCP #5000:	NAIL LOCATED ±52 FEET EAST OF INDIANA STREET CENTERLINE AND ±6 FEET SOUTH OF SOUTH CURB OF 11TH STREET	NORTHING: EASTING:	241,536.73 2,095,958.31

1. THE CITY OF LAWRENCE PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF LAWRENCE DESIGN CRITERIA AND CITY CODE. THE CITY OF LAWRENCE IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF THE DESIGN. THE CITY OF LAWRENCE THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY OTHER THAN STATED ABOVE FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.
2. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (APPROVED BY THE CITY OF LAWRENCE) AND ONE (1) COPY OF THE PROJECT SPECIFICATIONS ON SITE AT ALL TIMES.
3. CITY OF LAWRENCE TECHNICAL SPECIFICATIONS (LATEST EDITION) AND KDOT STANDARD SPECIFICATIONS (2007 EDITION) SHALL GOVERN CONSTRUCTION OF THIS PROJECT.
4. CONTRACTOR SHALL NOT BE ALLOWED TO WORK SUNDAYS. HOLIDAY OR SATURDAY WORK SHALL BE AS APPROVED BY PUBLIC WORKS IN CONSULTATION WITH UNIVERSITY OF KANSAS OFFICIALS.
5. CONTRACTOR MUST OBTAIN A "USE OF RIGHT-OF-WAY" PERMIT FROM THE CITY OF LAWRENCE PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL CALL 1-800-DIG-SAFE PRIOR TO ANY PROJECT EXCAVATION AND MUST REQUEST UTILITY LOCATION SERVICES FROM THE UNIVERSITY OF KANSAS PRIOR TO EXCAVATING OR BACKFILLING UTILITIES ON KU PROPERTY.
7. THE UTILITY INFORMATION SHOWN HEREIN IS BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITY DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTION, AND COORDINATE ANY NECESSARY RELOCATIONS. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE PROJECT.
8. ANY PAVEMENT THAT INCLUDES BRICKS MUST HAVE ASPHALT REMOVED WITHOUT MILLING AND BRICKS SALVAGED TO PUBLIC WORKS FACILITY OF WAKARUSA DRIVE.
9. CONTRACTOR SHALL CONTACT KU FACILITY SERVICES ENGINEERING OFFICE PRIOR TO BACKFILLING ANY UNDERGROUND UTILITY LINES AND SHALL ALLOW ADEQUATE TIME DURING NORMAL BUSINESS HOURS FOR FACILITY SERVICES PERSONNEL TO SURVEY AND ESTABLISH LOCATION AND DEPTHS OF ALL LINES.
10. PROVIDE MARKER AT TOP OF CURB ABOVE ALL UNDERGROUND CONDUIT OR SLEEVE LOCATIONS USING 2" HIGH "S" SYMBOL CAST OR EMBOSSED INTO THE CONCRETE.
11. KU'S UTILITY UPDATE NOTE: IF WORK HAS NOT BEEN COMPLETED WITHIN 15 CALENDAR DAYS FROM THE START DATE OF THE PRIOR REQUEST, THE OPERATOR MAY RE-EVALUATE THE LOCATE REQUEST. THE OPERATOR WILL ASK FOR THE TICKET NUMBER OF THE EARLIER REQUEST. ALSO, THE OPERATOR MUST ALLOW THE FACILITY OWNERS ANOTHER TOW FULL WORKING DAYS' NOTICE.
12. ONLY AUTHORIZED EMPLOYEES OF THE CITY OF LAWRENCE, UTILITY DEPARTMENT SHALL OPERATE VALVES.
13. WHERE EXISTING UTILITIES AND SERVICE LINES ARE TO BE ENCOUNTERED, THE OWNER THEREOF SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS IN ADVANCE OF PERFORMING ANY WORK IN THE VICINITY. THE CONTRACTOR MUST NOTIFY ALL AFFECTED ENTITIES AT LEAST 72 HOURS PRIOR TO ANY PLANNED UTILITY SERVICE OUTAGES AND IMMEDIATELY IF UNPLANNED UTILITY OUTAGES OCCUR AS A RESULT OF THE WORK.
14. UTILITIES EXPOSED DURING CONSTRUCTION SHALL BE ADEQUATELY SUPPORTED BY THE CONTRACTOR TO PREVENT THE CONDUITS/LINES FROM SAGGING AND PUTTING STRESS ON ANY JOINTS.
15. THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DETERIORATION NECESSARY DURING CONSTRUCTION.
16. ALL SIGNING, BARRICADES, AND DRUMS UTILIZED IN TRAFFIC CONTROL SHALL BE PROVIDED, ERECTED, AND MAINTAINED BY THE CONTRACTOR. TRAFFIC CONTROL SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
17. ALL WATER REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE PURCHASED FROM THE CITY OF LAWRENCE UTILITIES DEPARTMENT THROUGH THE USE OF A FIRE HYDRANT WATER METER. METERS CAN BE OBTAINED FROM THE UTILITY DEPARTMENT FOR A NOMINAL DEPOSIT, REFUNDABLE UPON THE RETURN OF THE METER.
18. CONSTRUCTION STAKING IS TO BE PROVIDED BY THE CONTRACTOR. SURVEY STAKES, BENCHMARKS, AND PROPERTY PINS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
19. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE FERTILIZED, SEEDED, AND MULCHED BY THE CONTRACTOR IN ACCORDANCE WITH CURRENT CITY OF LAWRENCE TECHNICAL SPECIFICATIONS, LATEST EDITION, EXCEPT ALL UNPAVED DISTURBED AREAS ON KU PROPERTY MUST BE SODDED AND WATERED AS NECESSARY UNLESS OTHERWISE APPROVED BY THE UNIVERSITY OF KANSAS.
20. ALL SURFACE FEATURES DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED BY THE CONTRACTOR TO ORIGINAL CONDITION.
21. AREAS WHERE FILL IS REQUIRED TO DEVELOP DESIGN GRADES SHOULD BE FILLED WITH CONTROLLED ENGINEERED FILL. CONTROLLED ENGINEERED FILL SHOULD CONSIST OF SUITABLE INORGANIC COHESIVE SOILS OR OTHER APPROVED MATERIALS. FILL SHOULD BE PLACED AND COMPACTED IN LOOSE LAYS OF 9 INCHES OR LESS AND COMPACTED TO AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (KDOT TYPE AA COMPACTION). THE MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHOULD BE WITHIN 3 PERCENTAGE POINTS OF THE MATERIAL'S STANDARD PROCTOR OPTIMUM MOISTURE CONTENT (MR-3-3).
22. ALL DECORATIVE PAVEMENT SHALL BE "BARK" OR "SABLE" COLOR STAMPED WITH A "RUNNING BOND USED BRICK" PATTERN.

11TH STREET IMPROVEMENTS	
1. MOBILIZATION	L.S.
2. CONSTRUCTION STAKING	L.S.
3. TRAFFIC CONTROL (FULL CLOSURE)	L.S.
4. SAWCUT AND REMOVE PAVEMENT (SEE GENERAL NOTE #8)	S.Y.
5. SAWCUT AND REMOVE CURB & GUTTER	L.F.
6. SAWCUT AND REMOVE CONCRETE SIDEWALK	S.Y.
7. REMOVE AND SALVAGE EXISTING SIGNS	EACH
8. ADJUST EXISTING SANITARY MANHOLE RIM	EACH
9. * GROUT PLUG EXISTING SANITARY MANHOLE	EACH
10. * ABANDON IN PLACE EXISTING 8" SSP	L.F.
11. * EARTHWORK	L.S.
12. * 6" CRUSHED STONE BASE (AB-3)	S.Y.
13. 10" NRDJ CONCRETE PAVEMENT	S.Y.
14. 10" NRDJ DECORATIVE CONCRETE (SEE GENERAL NOTE #22)	S.Y.
15. ** 8" REINFORCED CONCRETE PAVEMENT (NORTH SIDE)	S.Y.
16. * TYPE CG-1 CURB AND GUTTER (10" TOE) (SOUTH SIDE)	L.F.
17. * TYPE CG-1 CURB AND GUTTER (10" TOE) (NORTH SIDE)	L.F.
18. * TYPE CG-3 CURB AND GUTTER (10" TOE) (SOUTH SIDE)	L.F.
19. * TYPE CG-3 CURB AND GUTTER (10" TOE) (NORTH SIDE)	L.F.
20. 4" CONCRETE SIDEWALK (SOUTH SIDE)	S.Y.
21. ** 4" CONCRETE SIDEWALK (NORTH SIDE)	S.Y.
22. ACCESS RAMPS WITH DETECTABLE STRIP	EACH
23. * 15" RCP	L.F.
24. * 18" RCP	L.F.
25. * 24" RCP	L.F.
26. * 4" DIAMETER JUNCTION BOX WITH TYPE II RING/COVER	EACH
27. * 5" DIAMETER JUNCTION BOX WITH TYPE II RING/COVER	EACH
28. * 5" OVBABLE MORTAR	C.Y.
29. R-11 (35"x36") "STOP" SIGN WITH POST AND ANCHOR	EACH
30. R-411 (30"x30") "BMUL" SIGN WITH POST AND ANCHOR	EACH
31. * PAVEMENT MARKING SYMBOL (PREF. THERMO) (W) (SHARROW)	L.F.
32. PAVEMENT MARKING (INT. GRADE) (W) (24") (WHITE STOP BAR)	EACH

MISSISSIPPI STREET IMPROVEMENTS			
31.	MOBILIZATION	L.S.	1
32.	CONSTRUCTION STAKING	L.S.	1
33.	TRAFFIC CONTROL (FULL CLOSURE)	L.S.	1
34.	SAWCUT AND REMOVE PAVEMENT (SEE GENERAL NOTE #8)	S.Y.	2,322
35.	SAWCUT AND REMOVE CURB & GUTTER	L.F.	685
36.	SAWCUT AND REMOVE SIDEWALK	S.Y.	10
37.	REMOVE CONCRETE RETAINING WALL	L.F.	17
38.	REMOVE AND SALVAGE EXISTING SIGNS	EACH	5
39.	* REMOVE AREA INLET AND BACKFILL WITH FLOWABLE	EACH	1
40.	* REMOVE STORM (15" CMP)	L.F.	20
41.	* DISCONNECT AND ABANDON WATER SERVICE LINE	EACH	4
42.	* REMOVE AND SALVAGE WATER METER TIES/COVERS & BACKFILL	EACH	8
43.	ADJUST WATER METER TILE AND COVER	EACH	1
44.	ADJUST WATER VALVE COVER	EACH	1
45.	* REMOVE HYDRANT TEE	EACH	1
46.	* REMOVE AND SALVAGE FIRE HYDRANT	EACH	1
47.	ABANDON IN PLACE 8" SSP	L.F.	290
48.	* ABANDON SANITARY SERVICE	EACH	7
49.	REMOVE SANITARY MANHOLE	EACH	1
50.	* SSP CONCRETE ENCASEMENT	L.F.	40
51.	ADJUST SANITARY MANHOLE RIM	EACH	1
52.	8" SSP (SDR-26)	L.F.	290
53.	* 6" SSP (SCHEDULE 40) SERVICE LINE	L.F.	173
54.	* 6" SSP SERVICE CONNECTION	EACH	4
55.	* 6" SSP SERVICE CLEANOUT	EACH	5
56.	STANDARD DOGHOUSE MANHOLE (4' DIAMETER, 6' DEPTH)	EACH	1
57.	STANDARD DROP MANHOLE (5' DIAMETER, 6' DEPTH)	EACH	1
58.	EXTRA DEPTH MANHOLE (5' DIAMETER)	V.F.	6.6
59.	FLOWABLE MORTAR	C.Y.	412
60.	* FLOWABLE MORTAR (SANITARY SERVICES)	C.Y.	41
61.	TESTING	L.S.	1
62.	EARTHWORK	L.S.	1
63.	6" CRUSHED STONE BASE (AB-3)	S.Y.	2,053
64.	10" NRDJ CONCRETE PAVEMENT	S.Y.	1,773
65.	10" NRDJ DECORATIVE CONCRETE (SEE GENERAL NOTE #22)	S.Y.	25
66.	13.5" VAR. THICKNESS NRDJ CONCRETE PAVEMENT (BUMP)	S.Y.	88
67.	13.5" NRDJ DECORATIVE CONCRETE (SEE GENERAL NOTE #22)	S.Y.	32
68.	TYPE CG-2 CURB AND GUTTER (10" TOE)	L.F.	166
69.	TYPE CG-3 CURB AND GUTTER (10" TOE)	L.F.	24
70.	TYPE CG-3 VALLEY GUTTER (10" TOE)	L.F.	20
71.	R-1 (36"x36") STOP SIGN WITH POST AND ANCHOR	EACH	8
72.	** R-411 (30"x30") BMUFL SIGN WITH POST AND ANCHOR	EACH	6
73.	PAVEMENT MARKING SYMBOL (INT. GRADE) (W) (8" TURN ARROW)	EACH	9
74.	PAVEMENT MARKING SYMBOL (PREF. THERMO) (W) (BUMP)	EACH	2
75.	** PAVEMENT MARKING SYMBOL (PREF. THERMO) (W) (SHARROW)	EACH	6
76.	PAVEMENT MARKING WORD "BUMP" (PREF. THERMO) (W)	EACH	2
77.	PAVEMENT MARKING (P.C. PLASTIC) (W) (6") (SOLID)	L.F.	310
78.	PAVEMENT MARKING (P.C. PLASTIC) (W) (6") (DOTTED)	L.F.	156
79.	PAVEMENT MARKING (P.C. PLASTIC) (Y) (4") (DOUBLE SOLID)	L.F.	620
80.	PAVEMENT MARKING (P.C. PLASTIC) (Y) (4") (SOLID/BROKEN)	L.F.	236
81.	PAVEMENT MARKING (P.C. PLASTIC) (Y) (12") (DIAGONAL LINE)	L.F.	68
82.	PAVEMENT MARKING (P.C. PLASTIC) (W) (12") (DIAGONAL LINE)	L.F.	49
83.	PAVEMENT MARKING (INT. GRADE) (W) (24") (WHITE STOP BAR)	L.F.	67
84.	* 18" RCP	L.F.	53
85.	* 30" RCP	L.F.	55
86.	* 5x4' CURB INLET (SPECIAL)	EACH	1
87.	* 5x5' CURB INLET (KU SPECIAL)	EACH	1
88.	* 8x5' CURB INLET (CITY STANDARD)	EACH	1
89.	* CAST-IN-PLACE REINFORCED CONCRETE RETAINING WALL)	S.F.	30
90.	HANDRAIL	L.F.	20
91.	* CONNECT TO EXISTING STORM SEWER	EACH	1
92.	* FLOWABLE MORTAR	C.Y.	7
93.	* 6" C-900 PVC WATERLINE	L.F.	166
94.	* 1" SERVICE CONNECTION	EACH	1
95.	* 1" C-901 WATERLINE	L.F.	55
96.	* 8" C-900 PVC WATERLINE	L.F.	48
97.	* 8" M.J. FLUG	EACH	1
98.	* 8" M.J. 45' BEND	EACH	8
99.	* 8" M.J. 45' BEND	EACH	8
100.	* 8"x6" M.J. TEE	EACH	2
101.	* 8"x6" TAPPING SLEEVE / TAPPING VALVE	EACH	2
102.	* 8"x8" TAPPING SLEEVE / TAPPING VALVE	EACH	1
103.	* DISINFECTION AND PRESSURE TESTING	L.S.	1
104.	* FIRE HYDRANT ASSEMBLY	EACH	3
105.	FLOWABLE MORTAR	C.Y.	35
106.	* CONNECT TO EXISTING WATERLINE	EACH	4
BLANK	50%-50% COST SHARING BETWEEN DEVELOPER AND CITY		
**	100% DEVELOPER COST		
**	100% CITY COST		

DATE: 10/13/15  
PROJECT NO.: 20132015  
DESIGNED BY: CMS  
DRAWN BY: RK  
CHECKED BY: CMS

ISSUE	SHEET NO.
<b>B</b>	<b>2</b>
	OF <b>27</b> SHEETS

HERE ADDITION (11TH STREET AND MISSISSIPPI STREET)  
PUBLIC IMPROVEMENTS, PW1534  
GENERAL LAYOUT, NOTES AND SUMMARY OF QUANTITIES