

**GENERAL EROSION AND SEDIMENT CONTROL NOTES**

- THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF WICHITA, KANSAS, CURRENT USAGE.
- SOIL SURVEY INFORMATION SHOWN ON THIS SET OF PLANS WAS OBTAINED FROM THE "SOIL SURVEY OF SEDGWICK COUNTY, KANSAS", PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, DATED 1979.
- EXCEPT WHERE NECESSARY TO INSTALL EROSION AND SEDIMENT CONTROL DEVICES, CLEARING ACTIVITIES SHALL NOT BEGIN UNTIL ALL EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN INSTALLED.
- THE CONTRACTOR SHALL PROVIDE FOR CONTROL OF SURFACE EROSION AND SEDIMENT DEPOSITION DURING ALL PHASES OF CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. THE CONTRACTOR SHALL PROVIDE TEMPORARY SEEDING, BERMS, SILT FENCE, SEDIMENT TRAPS, STRAW BALES OR OTHER MEANS TO PREVENT SEDIMENT FROM REACHING THE PUBLIC RIGHT-OF-WAY, STREAMS OR ADJACENT PROPERTY. IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL REMOVE ANY DEBRIS SEDIMENT AND RESTORE THE RIGHT-OF-WAY AND ADJACENT PROPERTY TO ITS ORIGINAL OR BETTER CONDITION.
- THE EXISTING PHYSICAL FEATURES SHOWN ON THIS SET OF PLANS ARE BASED ON A SURVEY BY MKCC. CONDITIONS OF THE SITE AT THE TIME OF CONSTRUCTION MAY VARY FROM THE SURVEYED CONDITIONS. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING SURFACE AND SUBSURFACE GROUND CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PUBLIC ROADWAYS ADJACENT TO THE CONSTRUCTION SITE FREE OF DIRT AND DEBRIS RESULTING FROM ACTIVITIES RELATED TO THE CONSTRUCTION OF THIS PROJECT.
- CONTRACTOR SHALL KEEP THE ENTIRE PROJECT SITE FREE OF DEBRIS AND TRASH AT ALL TIMES. CONTRACTOR SHALL EXECUTE WORK USING METHODS THAT MINIMIZE EXCESSIVE NOISE OR DUST EMISSIONS. CONTRACTOR SHALL PROVIDE METHODS, MEANS AND FACILITIES TO PREVENT CONTAMINATION OF SOIL OR WATER FROM DISCHARGE OF REGULATED MATERIALS (I.E., DIESEL FUEL) USED DURING CONSTRUCTION.
- THE AREAS NOTED ON THE PLAN SHEETS FOR STOCKPILING OF MATERIALS OBTAINED DURING GRADING OPERATIONS ARE FOR THE STOCKPILING OF TOPSOIL. THE SLOPES IN THESE AREAS SHALL BE GRADED SUCH THAT THEY DO NOT EXCEED 3:1. SILT FENCE SHALL BE INSTALLED COMPLETELY AROUND THE PERIMETER OF THE AREAS AND THE AREAS SHALL BE SEEDED WITHIN 14 DAYS ONCE CONSTRUCTION ACTIVITIES ON THEM CEASE.
- PRIOR TO INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY EROSION CONTROL SHALL BE COMPLETED ON ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1 (H:V); EMBANKMENTS OF PONDS, BASINS, AND TRAPS. SEDIMENT CONTROL SHALL BE COMPLETED WITHIN FOURTEEN (14) CALENDAR DAYS ON ALL OTHER DISTURBED OR GRADED AREAS. THIS REQUIREMENT DOES NOT APPLY TO THOSE AREAS THAT ARE SHOWN ON THE PLANS THAT ARE CURRENTLY BEING USED FOR MATERIAL STORAGE OR FOR THOSE AREAS, WHICH ACTUAL CONSTRUCTION ACTIVITIES ARE CURRENTLY BEING PERFORMED.
- THE CONTRACTOR SHALL REQUEST THE OWNER TO INSPECT AND APPROVE THE WORK UPON THE COMPLETION OF VARIOUS STAGES OF THE WORK. REQUESTS FOR INSPECTION SHALL BE MADE AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) OF THE TIME THE INSPECTION IS DESIRED. THE CONTRACTOR SHALL OBTAIN WRITTEN NOTIFICATION OF THE OWNER'S APPROVAL AT END OF THE FOLLOWING STAGES OF THE CONSTRUCTION:
  - UPON COMPLETION OF THE INSTALLATION OF THE PERIMETER EROSION AND SEDIMENT CONTROLS OF THE WORK. THE OWNER'S INSPECTION SHALL TAKE PLACE BEFORE PROCEEDING WITH ANY OTHER LAND DISTURBANCE ACTIVITY.
  - DURING CONSTRUCTION OF THE SEDIMENT BASINS OR STORMWATER MANAGEMENT STRUCTURES.
  - AT SPECIAL INSPECTION POINTS NOTED ON THE CONSTRUCTION PERMIT.
  - PRIOR TO REMOVAL OR SUBSTANTIAL MODIFICATION OF ANY EROSION AND SEDIMENT CONTROL MEASURE.
  - UPON COMPLETION OF FINAL GRADING OPERATIONS.
  - UPON ESTABLISHMENT OF GROUND FOLLOWS.
- THE CONTRACTOR SHALL PREPARE AND FOLLOW A PHASED METHOD OF CONSTRUCTION GRADING TO MINIMIZE THE AMOUNT OF EXPOSED BARE GROUND AT ANY ONE TIME. THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS WITH TEMPORARY SEEDING AND RECEIVE APPROVAL FROM THE OWNER BEFORE CONTINUING TO DISTURB ADDITIONAL AREAS.
- THE VEGETATION THAT CURRENTLY EXISTS ON THIS SITE CONSISTS OF TREES, SHRUBS, VINES, AND GRASSES, EDGES OF EXISTING TIMBER AND INDIVIDUAL TREES ARE NOTED IN THE LEGEND AND SHOWN IN THE PLANS. THE PLANS NOTE SELECT AREAS OF THE SITE THAT ARE NOT TO BE DISTURBED. EXISTING VEGETATION IN AREAS NOTED TO BE CLEARED AND GRUBBED SHALL BE COMPLETELY REMOVED IN ACCORDANCE WITH THESE PLANS AND CURRENT PROPOSED CONSTRUCTION ACTIVITIES WILL CONSIST OF THE EXISTING VEGETATION IN UNDISTURBED AREAS AND THE TEMPORARY SEED MIXTURE NOTED ELSEWHERE ON THIS SHEET IN DISTURBED AREAS.
- FOLLOWING STRIPPING OPERATIONS, CONTRACTOR SHALL REMOVE EXISTING TOPSOIL AND STOCKPILE THE MATERIAL IN AN APPROVED AREA. STOCKPILES SHALL BE STABILIZED BY TEMPORARY SEEDING AND ENCLOSED WITH SILT FENCE.
- CONTRACTOR MUST INSTALL AND MAINTAIN THE EROSION CONTROL MEASURES SHOWN ON THESE PLANS. IF THE ENGINEER DETERMINES THAT THE INSTALLATION OR THE MAINTENANCE IS INADEQUATE, THE CONTRACTOR MUST IMMEDIATELY CORRECT AT HIS/HER EXPENSE. IF IT IS DETERMINED THAT ADDITIONAL EROSION CONTROL MEASURES ARE NEEDED THE CONTRACTOR WILL BE DIRECTED TO INSTALL AND MAINTAIN THOSE MEASURES.
- FOLLOWING THE FINAL REMOVAL OF ALL EROSION CONTROL MEASURES THE CONTRACTOR SHALL RE-GRADE AND RE-SOD ALL AREAS THAT WERE DISTURBED BY THE REMOVAL.
- ANY TRIBUTARIES ENTERING DISTURBANCE LIMITS WILL BE TREATED BY APPROPRIATE BMP'S BEFORE ENTERING MAIN STREAM.

**SEDIMENT CONTROL GENERAL NOTES**

- THE CONTRACTOR SHALL INSPECT THE LAND DISTURBANCE SITE AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN TWENTY-FOUR (24) HOURS FOLLOWING EACH RAINFALL EVENT OF 1/2" OR MORE WITHIN ANY TWENTY-FOUR (24) HOUR PERIOD. THE CONTRACTOR SHALL ALSO INSPECT AND ASSURE THAT ALL SEDIMENT CONTROL DEVICES ARE IN WORKING CONDITION PRIOR TO ANY FORECASTED RAINFALL.
- THE CONTRACTOR SHALL REMOVE SEDIMENT FROM THE FLOW AREAS AND MAKE ALL NECESSARY REPAIRS TO MAINTAIN THE INTEGRITY OF THE SEDIMENT CONTROL MEASURES. SEDIMENT SHALL BE REMOVED FROM ROCK DITCH CHECKS ONCE IT REACHES 1/2 OF THE INSTALLED HEIGHT OF THE DITCH CHECK.
- SEDIMENT CONTROL MEASURES SHALL BE REMOVED ONCE 70 PERCENT OF THE PERMANENT COVER IS ESTABLISHED OVER 100 PERCENT OF THE PROJECT AREA.
- SOME OF THE EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS DIVERSION DIKES AND SEDIMENT TRAPS, WILL REQUIRE THE CONTRACTOR TO INSTALL, REMOVE, AND REINSTALL THE MEASURES AS CONSTRUCTION PROCEEDS. THE PHASING OF THIS WORK IS DEPENDENT ENTIRELY ON THE CONTRACTOR'S SCHEDULE, AND IS NOT SPECIFIED HEREIN. HOWEVER, THE CONTRACTOR SHALL COORDINATE THESE ACTIONS WITH THE ENGINEER AT THE TIMES ADJUSTMENTS ARE NEEDED.

**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE**

- STONE STABILIZED PADS SHALL BE CONSTRUCTED AT ALL LOCATIONS WHERE CONSTRUCTION AND PRIVATE VEHICULAR TRAFFIC WILL BE ALLOWED TO ENTER AND EXIT THE CONSTRUCTION SITE. CONSTRUCTION EQUIPMENT (INCLUDING PERSONAL VEHICLES) ARE NOT ALLOWED TO EXIT THE SITE DIRECTLY ONTO ARTERIAL OR COLLECTOR STREETS. ALL VEHICLES/CONSTRUCTION EQUIPMENT MUST USE THE STABILIZED CONSTRUCTION ENTRANCES SHOWN ON THE PLANS.
- CONSTRUCTION ENTRANCES TO BE COMPOSED OF 2 TO 3 INCH DIAMETER WASHED STONE UNDERLINED BY A GEOTEXTILE FABRIC TO IMPROVE STABILITY. STONE THICKNESS TO BE A MINIMUM OF 6-INCHES. ENTRANCES TO BE 20-FEET WIDE AND 50 FEET IN LENGTH.
- CONTRACTOR SHALL APPLY ADDITIONAL TOP DRESSING OF 2-INCH STONE AS NEEDED TO MAINTAIN THE INTEGRITY OF THE ENTRANCE.

**TEMPORARY SEEDING**

- THE CONTRACTOR SHALL TEMPORARILY SEED ALL DISTURBED AREAS IF THERE HAS BEEN NO CONSTRUCTION ACTIVITY ON THEM FOR A PERIOD OF 14 CALENDAR DAYS. IF THE ENGINEER DETERMINES THAT A SITE HAS A HIGH POTENTIAL FOR EROSION BASED ON PREVIOUS INFORMATION SUBMITTED, THE CONTRACTOR SHALL STABILIZE THE DISTURBED AREA AFTER PERIODS OF CONSTRUCTION INACTIVITY OF MORE THAN FORTY-EIGHT (48) HOURS.
- A SOIL SAMPLE AND TEST FOR NITROGEN, PHOSPHORUS, POTASSIUM, (N-P-K) AND pH SHALL BE PERFORMED TO DETERMINE THE AMOUNT OF FERTILIZER AND LIME NEEDED TO SUSTAIN TURF GRASS ESTABLISHMENT AND GROWTH. THE CONTRACTOR SHALL OBTAIN SAMPLES AND SHALL SUBMIT MARKED SAMPLES TO A UNIVERSITY EXTENSION OFFICE OR PRIVATE LABORATORY. ONE SAMPLE PER TEN ACRES OF DISTURBED LAND SHALL BE SUBMITTED AS PER THEIR INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT TEST RESULTS TO THE ENGINEER FOR APPROVAL PRIOR TO THE APPLICATION OF ANY SOIL AMENDMENTS.
- THE CONTRACTOR SHALL LOOSEN AND INCORPORATE SOIL AMENDMENTS TO A DEPTH OF THREE INCHES BEFORE SEEDING.
- THE CONTRACTOR SHALL BROADCAST SEED OR HYDRO SEED AT THE RECOMMENDED RATES AT THE RECOMMENDED TIMES. SEED SHALL HAVE BEEN TESTED WITHIN THE PAST NINE MONTHS AND HAVE A PURITY OF 95% (MIN.) AND 98% MIN. GERMINATION. THE SEED TAGS SHALL BE REMOVED FROM THE BAGS AT THE SITE AND GIVEN TO THE OWNER.

**SEED MIXTURE TO BE AS FOLLOWS:**

50% REGREEN STERILE WHEAT	APPLICATION RATE:
50% ANNUAL RYE	400 LBS./ACRE

- STRAW MULCH SHALL BE UNIFORMLY APPLIED AT A MINIMUM RATE OF 2 TONS PER ACRE OR 100 - 45 LBS. STRAW BALES. STRAW TO BE CRIMPED INTO THE SOIL WITH A WEIGHTED NOTCHED DISC OR A MULCH ANCHORING TOOL TO PUNCH THE STRAW INTO THE SOIL.
- THE SEEDED AREAS SHALL BE INSPECTED BY THE ENGINEER TWO TO FOUR WEEKS AFTER SEEDING FOR ADEQUATE SEED GERMINATION, EROSION CONTROL AND WEED CONTROL. REPAIRS AND RESEEDING SHALL BE PERFORMED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- THE SEED BED SHALL BE KEPT MOIST BY WATERING TO PROVIDE GERMINATION WITHIN TWO WEEKS. WATERING SHALL BE REQUIRED IN THE AMOUNT OF 0.2" OVER THE ENTIRE SEEDED AREA, EVERY SECOND DAY UNTIL GERMINATION IS ACHIEVED. THE CONTRACTOR MAY REQUEST A VARIANCE TO THE WATERING SCHEDULE DURING PERIODS OF FREQUENT RAIN, BUT ALL VARIANCES MUST BE APPROVED BY THE ENGINEER. IF VEGETATIVE MEASURES ARE NOT EFFECTIVE WITHIN THIS TIME FRAME, CONTRACTOR MAY BE REQUIRED TO RESEED OR EMPLOY A NON-VEGETATIVE OPTION TO STABILIZE THE DISTURBED AREA.

**ALTERNATE METHOD OF STABILIZATION**

IF SEEDING IS NOT EFFECTIVE, ADDITIONAL STRAW MULCH SHALL BE UNIFORMLY APPLIED AT A RATE OF 2 TONS PER ACRE AND CRIMPED INTO THE SOIL WITH A WEIGHTED NOTCHED DISC OR A MULCH ANCHORING TOOL TO PUNCH THE STRAW INTO THE SOIL, OR OTHER APPROVED METHOD.

**PRIOR TO CONSTRUCTION**

PRIOR TO CONSTRUCTION THE GENERAL CONTRACTOR SHALL PREPARE DOCUMENTS CONVEYING HIS/HER INTENDED WORK SCHEDULE AND PROPOSED TASK SEQUENCING FOR THE PROJECT. THESE DOCUMENTS SHALL BE SUBMITTED AT THE PRE-CONSTRUCTION MEETING TO THE ENGINEER FOR REVIEW AND APPROVAL, PRIOR TO THE START OF CONSTRUCTION. THE GENERAL CONTRACTOR WILL BE ABLE TO SATISFACTORILY DEMONSTRATE THAT HE/SHE IS CAPABLE OF MEETING ALL EROSION CONTROL REQUIREMENTS ON ALL AREAS OF THE SITE. THE GENERAL CONTRACTOR WILL ONLY BE ALLOWED TO WORK THE AREA(S) THAT HE/SHE CLEARLY SHOWS THEY CAN ADEQUATELY MEET ALL REQUIREMENTS.

**PROJECT SEDIMENT CONTROL GENERAL NOTES**

- REFER TO GRID COORDINATES ON SWPPP (STORMWATER POLLUTION PREVENTION PLAN) PLAN SHEET(S) FOR DESCRIBING LOCATIONS IN INSPECTION REPORTS.
- SILT FENCE SHALL BE INSTALLED AT THE CONSTRUCTION LIMITS OF THE PROJECT.
- CONTRACTOR SHALL LEAVE AN UNDISTURBED STRIP OF EXISTING GRASS OR OTHER VEGETATION AROUND THE PERIMETER OF THE SITE OF NOT LESS THAN 5 FEET IN WIDTH. CONTRACTOR SHALL PROTECT SAID STRIP OF VEGETATION FROM DAMAGE, OTHER THAN FOR CONSTRUCTION OF STABILIZED CONSTRUCTION ENTRANCES.
- INSTALL APPROVED CONSTRUCTION FENCING AT DRIPLINE OF ALL TREES NOT DESIGNATED TO BE REMOVED. PROTECT THESE TREES THROUGHOUT THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL INDICATE ON A COPY OF THE SWPPP PLAN SHEET(S) ANY REVISIONS AND UPDATES TO THE EROSION CONTROL PLAN, AND INCLUDE A COPY AS AN ATTACHMENT TO THE SWPPP.
- CONTRACTOR SHALL DESIGNATE THE FOLLOWING ITEMS ON A COPY OF THE SWPPP PLAN SHEET(S):
  - DESIGNATED LOCATION OF STABILIZED CONSTRUCTION ENTRANCE(S)
  - DESIGNATED LOCATION OF LAYDOWN AREAS
  - DESIGNATED LOCATION OF STAGING AREAS
  - DESIGNATED LOCATION OF STOCKPILE AREAS
  - DESIGNATED LOCATION OF APPROVED CONCRETE WASHOUTS
  - DESIGNATED LOCATION OF WASTE CONTAINERS
  - DESIGNATED LOCATION OF PORTABLE TOILETS
  - DESIGNATED LOCATION OF SPILL KITS
- CONTRACTOR TO REFER TO SWPPP AND STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR MORE INFORMATION REGARDING BMP INSTALLATION AND MAINTENANCE REQUIREMENTS.
- MATERIALS AND INSTALLATION SHALL CONFORM TO CITY OF WICHITA STANDARD SPECIFICATIONS.
- IN ALL DISTURBED AREAS, INSTALL SILT FENCE ALONG THE CONTOUR, AND AT 100 FT INTERVALS WORKING UP THE SLOPE FROM A DRAINAGE CHANNEL. ENDS OF SILT FENCE SHALL EXTEND UPSLOPE APPROXIMATELY 1.5 TO 2 FT IN ELEVATION, ALONG A GENTLE CURVE. COMPOST FILTER BERMS MAY BE USED IN PLACE OF SILT FENCE, ESPECIALLY WHERE ROCKY AREAS EXIST THAT HINDER INSTALLATION OF SILT FENCE.
- A NOTE ON SILT FENCE: SILT FENCE CAN BE USED WHERE: SHEET AND RILL EROSION WOULD OCCUR PROTECTION OF ADJACENT PROPERTY OR AREAS BEYOND THE LIMITS OF GRADING IS NEEDED (PERIMETER CONTROL) THE SIZE OF THE DRAINAGE AREA IS NO MORE THAN 1/4 ACRE PER 100 LINEAR FEET OF SILT FENCE THE MAXIMUM FLOW PATH LENGTH ABOVE THE BARRIER IS 100 FEET THE MAXIMUM SLOPE GRADIENT ABOVE THE BARRIER IS 2:1 SMALL SWALES ARE CARRYING SILT, THE SLOPE IS LESS THAN 2%, AND THE DRAINAGE AREA IS LESS THAN 2 ACRES NO PRACTICE OTHER THAN A SILT FENCE IS FEASIBLE

**REGULATORY AGENCY REQUIREMENTS**

- KANSAS STATE HISTORICAL SOCIETY -- STATE HISTORIC PRESERVATION OFFICE:
- IF CONSTRUCTION WORK UNCOVERS BURIED ARCHEOLOGICAL MATERIALS, WORK SHALL CEASE IN THE AREA OF THE DISCOVERY AND THE KANSAS STATE HISTORICAL SOCIETY - STATE HISTORIC PRESERVATION OFFICE SHALL BE NOTIFIED IMMEDIATELY AT (785) 272-8881 EXT. 240.
- UNITED STATES DEPARTMENT OF THE INTERIOR -- FISH AND WILDLIFE SERVICE:
- THE MIGRATORY BIRD TREATY ACT: THE MBTA PROHIBITS THE TAKING, KILLING, POSSESSION, TRANSPORTATION, AND IMPORTATION OF MIGRATORY BIRDS, THEIR EGGS, PARTS, AND NESTS, EXCEPT WHEN SPECIFICALLY AUTHORIZED BY THE DEPARTMENT OF THE INTERIOR. TAKINGS COULD RESULT FROM PROJECTS IN PRAIRIES, WETLANDS, STREAM AND WOODLAND HABITATS, AND THOSE THAT OCCUR ON BRIDGES AND OTHER STRUCTURES IF SWALLOW OR PHOEBE NESTS ARE PRESENT. WHILE THE PROVISIONS OF MBTA ARE APPLICABLE YEAR-ROUND, MOST MIGRATORY BIRD NESTING ACTIVITY IN KANSAS OCCURS DURING THE PERIOD OF APRIL 1 TO JULY 15. HOWEVER, SOME MIGRATORY BIRDS ARE KNOWN TO NEST EARLIER THAN THIS (E.G., HAWKS AND OWLS) AND SOME LATER (E.G., GOLDFINCHES). IF CONSTRUCTION OF THE PROPOSED PROJECT WILL OCCUR DURING THE NESTING SEASON IN HABITAT CAPABLE OF SUPPORTING BIRD NESTING, USFWS RECOMMENDS A FIELD SURVEY DURING THE NESTING SEASON OF THE AFFECTED HABITATS AND STRUCTURES TO DETERMINE THE PRESENCE OF ACTIVE NESTS. USFWS OFFICE SHOULD BE CONTACTED IMMEDIATELY FOR FURTHER GUIDANCE IF A FIELD SURVEY IDENTIFIES THE EXISTENCE OF ONE OR MORE ACTIVE BIRD NESTS THAT YOU BELIEVE CANNOT BE AVOIDED TEMPORALLY OR SPATIALLY BY THE PLANNED ACTIVITIES. CONTACT INFORMATION: USFWS, ECOLOGICAL SERVICES, 315 HOUSTON, SUITE E, MANHATTAN, KS, 66502-6172, 785-539-3474
  - INVASIVE SPECIES MANAGEMENT PLAN: ALL EQUIPMENT BROUGHT ON SITE SHALL BE THOROUGHLY WASHED TO REMOVE DIRT, SEEDS, AND VIABLE PLANT PARTS. ANY EQUIPMENT THAT HAS BEEN IN ANY BODY OF WATER WITHIN THE PAST 30 DAYS WILL BE THOROUGHLY CLEANED WITH HOT WATER GREATER THAN 140°F AND DRIED FOR A MINIMUM OF FIVE DAYS BEFORE BEING USED AT THIS PROJECT SITE. IN ADDITION, BEFORE TRANSPORTING EQUIPMENT FROM THE PROJECT SITE ALL VISIBLE MUD, PLANTS AND FISH AND ANIMAL PARTS WILL BE REMOVED, ALL WATER WILL BE ELIMINATED, AND THE EQUIPMENT WILL BE THOROUGHLY CLEANED. ANYTHING THAT CAME IN CONTACT WITH WATER WILL BE CLEANED AND DRIED FOLLOWING THIS PROCEDURE.

- KANSAS DEPARTMENT OF WILDLIFE AND PARKS:
- THE KANSAS DEPARTMENT OF WILDLIFE AND PARKS ADVOCATES INCORPORATING THE FOLLOWING PROJECT RECOMMENDATIONS TO MITIGATE IMPACTS TO WILDLIFE:
    - AVOID DISTURBING THE BED AND BANKS OF STREAMS DURING THE GENERAL SPAWNING PERIOD FROM APRIL 1 TO JULY 31
    - MINIMIZE ENCROACHMENT OR DEVELOPMENT IN FLOODPLAINS
    - MINIMIZE THE DISTURBANCE TO RIPARIAN OR NATIVE HARDWOOD TIMBER
    - PROTECT WARM-SEASON PASTURES OR RANGELAND
    - DO NOT FILL WETLANDS OR AREAS THAT ROUTINELY POND WATER
    - INSTALL APPROPRIATE TEMPORARY EROSION MEASURES (E.G. SILT FENCING, HAY BALE DITCH CHECKS, EROSION CONTROL BLANKETS, ROCK DITCH CHECKS, ETC.) TO CONTROL EROSION AND PROTECT WATER QUALITY DURING CONSTRUCTION
    - REVEGETATE ALL DISTURBED AREAS WITH SIMILAR NATIVE SPECIES.

**RECAPITULATION OF QUANTITIES**

ITEM	QUANTITY TOTAL	UNIT
<b>GENERAL ITEMS</b>		
SITE CLEARING & RESTORATION	1	LS
GRADING	1	LS
PERMANENT SEEDING	25,925	SY
ECB, BFM	25,925	SY
SODDING	1,025	SY
PROJECT AND DRAINAGE AREA SIGNS	3	EA
GUARDRAIL AT GILBERT STREET BRIDGE	210	LF
EROSION CONTROL (SILT FENCE)	2,000	LF
EROSION CONTROL (TEMPORARY CHECK DAMS)	40	CY
<b>PAVING ITEMS</b>		
PAVEMENT REMOVAL	1,450	SY
PAVEMENT REPLACEMENT (INCLUDES BASE & SUB BASE)	120	SY
COMBINED CURB & GUTTER REMOVAL	100	LF
COMBINED CURB & GUTTER REPLACEMENT	325	LF
CONCRETE SIDEWALK & DRIVE REMOVAL & REPLACEMENT	20	SY
CONCRETE BASE OVER GILBERT	70	CY
ASPHALTIC OVERLAY OVER GILBERT	400	SY
<b>DRAINAGE ITEMS</b>		
BIG BLOCK WALL (BL A STA. 1+40 TO 8+20)	5,150	FSF
DITCH LINER (BL A STA. 8+25 TO STA. 10+55)	685	CY
GRADE CONTROL STRUCTURE (BL A STA. 8+15)	1	EA
FLOOD BENCH CONSTRUCTION (BL A STA. 13+50 TO STA. 18+20)	1	LS
REMOVAL OF EXISTING STRUCTURES	1	LS
SWS PIPE RCP 15"	65	LF
SWS PIPE RCP 15" FLARED END SECTION	2	EA
SWS PIPE RCP 24"	40	LF
SWS PIPE RCP 24" FLARED END SECTION	2	EA
SWS PIPE RCP 30"	101	LF
HEADWALL RC (15") WITH FLAPGATE	1	EA
HEADWALL RC (30") WITH FLAPGATE	1	EA
SWS PIPE RCP 48"	25	LF
SWS PIPE RCP 48" FLARED END SECTION	1	EA
MH, REINFORCED CONCRETE (4" DIAMETER)	3	EA
MH, REINFORCED CONCRETE (5" DIAMETER)	1	EA
MH, SHALLOW (TYPE A, B, SPECIAL?)	1	EA
INLET, CURB (GILBERT ST)	3	EA
INLET, CURB (PINECREST & ORME ST.)	2	EA
INLET, FIELD 5X5	2	EA
SPLASH PAD	25	CY
GILBERT STREET CULVERT (INCLUDES CULVERTS, RC HEADWALLS & TOEWALLS, EMBEDMENT, BACKFILL, ETC.)	1	LS
GILBERT STREET CULVERT RC SEDIMENT WALLS	20	CY
GILBERT STREET CULVERT STONE FACING	550	FSF
GILBERT STREET CULVERT BIG BLOCK WINGWALLS	850	FSF
GILBERT STREET CULVERT INLET & OUTLET RFRAP PROTECTION	1,800	CY
CONFLUENCE BIG BLOCK WALL	3,825	FSF
CONFLUENCE DITCH LINER	1,150	CY
<b>SANITARY SEWER ITEMS</b>		
SANITARY SEWER MANHOLE ADJUSTMENTS	1	LS
8" DIP SANITARY SEWER	138	LF

03/17/09 FINAL - CONSTRUCTION SET  
 2/13/09 100% SUBMITTAL  
 11/21/07 90% SUBMITTAL - FOR REVIEW ONLY  
 8/31/07 70% SUBMITTAL - FOR REVIEW ONLY  
 DATE REVISIONS AND RECORD OF ISSUE NO. BY CK APP.  
 (OWNER ID: 143234-320-WR-C-10000039) (SHEET 1 OF 1) (PROJECT SHEET 1 OF 1)  
 WKS: 003, 004  
 SAVED: 03/03/09, 3/13/2009 10:23:17 AM XREFS:  
 PLOTTED: 03/03/09, 3/13/2009 8:41:39 AM XREFS:  
 USER: C037033 LMG VERT-139 XREFS:

**BLACK & VEATCH**  
 Building a world of difference  
 Kansas City, Missouri

**DRY CREEK CHANNEL IMPROVEMENTS**  
 WICHITA, KANSAS  
 LINCOLN TO ORME  
 EROSION & SEDIMENT CONTROL GENERAL NOTES

DESIGNED: DPW  
 DETAILED: DEC  
 CHECKED: AKS  
 APPROVED:  
 DATE: 03 APR 2009

0 1/2 1  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.  
**143234**  
**003**  
 SHEET  
 3 OF 42