

**LAKE COUNTY STORMWATER MANAGEMENT COMMISSION
TYPICAL CONSTRUCTION SEQUENCING**

1. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SE/SC MEASURES
 - a.) SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION
 - b.) SILT FENCE INSTALLATION
 2. TREE REMOVAL WHERE NECESSARY (CLEAR & GRUB)
 3. CONSTRUCT SEDIMENT TRAPPING DEVICES (SEDIMENT TRAPS, BASINS ...)
 4. CONSTRUCT DETENTION FACILITIES AND OUTLET CONTROL STRUCTURE WITH RESTRICTOR & TEMPORARY PERFORATED RISER
 5. STRIP TOPSOIL, STOCKPILE TOPSOIL AND GRADE SITE
 6. TEMPORARILY STABILIZE TOPSOIL STOCKPILES (SEED AND SILT FENCE AROUND TOE OF SLOPE)
 7. INSTALL STORM SEWER, SANITARY SEWER, WATER AND ASSOCIATED INLET & OUTLET PROTECTION
 8. PERMANENTLY STABILIZE DETENTION BASINS WITH SEED AND EROSION CONTROL BLANKET
 9. TEMPORARILY STABILIZE ALL AREAS INCLUDING LOTS THAT HAVE REACHED TEMPORARY GRADE
 10. INSTALL ROADWAYS
 11. PERMANENTLY STABILIZE ALL OUTLOT AREAS
 12. INSTALL STRUCTURES AND GRADE INDIVIDUAL LOTS
 13. PERMANENTLY STABILIZE LOTS
 14. REMOVE ALL TEMPORARY SE/SC MEASURES AFTER THE SITE IS ESTABLISHED WITH OVER 70% VEGETATION
- SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY TWO WEEKS AND AFTER 1/2 OR GREATER RAINFALL EVENT

CRITICAL AREA #1 - PROPOSED DRAINAGE STRUCTURE #3 TEMP. DRAINAGE

STAGE 1

1. CONTRACTOR SHALL INSTALL PROPOSED DRAINAGE STRUCTURE #3 AT STA. 137+00, OFF. 30' LT. PROPOSED DRAINAGE STRUCTURE #3 SHALL BE PRE-FABRICATED TO ACCOMMODATE THE TEMPORARY PIPE INVERT AS SHOWN ON THE STAGE 1 EROSION CONTROL PLAN SHEETS.
2. CONTRACTOR SHALL INSTALL PROPOSED DRAINAGE PIPE #2 FROM PROPOSED DRAINAGE STRUCTURE #3 TO THE CONSTRUCTION STAGE LINE. CONTRACTOR SHALL PLUG PROPOSED DRAINAGE PIPE #2 AT THE CONSTRUCTION STAGE LINE.
3. CONTRACTOR SHALL INSTALL A 12" TEMPORARY STORM SEWER PIPE FROM PROPOSED DRAINAGE STRUCTURE #3 TO THE RIPRAP NORTH OF THE EXISTING 48" PIPE CULVERT AT STA. 137+18. A 12" FLARED END SECTION SHALL BE INSTALLED AT THE DAYLIGHT END OF THE TEMPORARY PIPE. THE PIPE SHALL BE INSTALLED AT THE INVERT ELEVATIONS SHOWN ON THE STAGE 1 EROSION CONTROL PLAN SHEETS.

STAGE 2

4. CONTRACTOR SHALL INSTALL PROPOSED DRAINAGE STRUCTURE #5 AT STA. 137+00, OFF. 30' RT.
5. CONTRACTOR SHALL LOCATE AND UN-PLUG THE END OF PROPOSED DRAINAGE PIPE #2 AND INSTALL THE REMAINDER OF THE PIPE FROM THE CONSTRUCTION STAGE LINE TO PROPOSED DRAINAGE STRUCTURE #5.
6. CONTRACTOR SHALL COMPLETE THE INSTALLATION OF ALL PROPOSED CONNECTIONS THAT DOWNSTREAM OF PROPOSED DRAINAGE STRUCTURE #5 SO THAT POSITIVE DRAINAGE IS MAINTAINED THROUGH CONSTRUCTION OF THE PROPOSED DRAINAGE CROSSING AT STA. 137+00.
7. AFTER THE PROPOSED DRAINAGE SYSTEM HAS BEEN COMPLETED, THE TEMPORARY DRAINAGE PIPE AND END SECTION INSTALLED DURING STEP 3 SHALL BE REMOVED AND FILLED WITH CONTROLLED LOW STRENGTH MATERIAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE INSTALLATION OF THE PROPOSED DRAINAGE STRUCTURE AND PIPE PAY ITEMS AND CONTROLLED LOW STRENGTH MATERIAL.
8. CONTRACTOR SHALL RETURN ALL AREAS DISTURBED BY THE REMOVAL OR FILL OF TEMPORARY DRAINAGE ITEMS TO THE FINAL GRADES AND CONDITIONS INDICATED IN THE CROSS-SECTIONS AND PLANS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR MAINTENANCE OF TEMPORARY EROSION CONTROL ITEMS.

CRITICAL AREA #2 - PROPOSED 12" PIPE CROSSING NEAR STA. 156+50 TEMP. DRAINAGE

STAGE 1

1. CONTRACTOR SHALL INSTALL PROPOSED DRAINAGE STRUCTURE #33 AT STA. 156+45, OFF. 30' LT.
2. CONTRACTOR SHALL INSTALL PROPOSED DRAINAGE PIPE #31 FROM PROPOSED DRAINAGE STRUCTURE #33 TO THE CONSTRUCTION STAGE LINE.
3. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FROM PROPOSED DRAINAGE PIPE #31 TO EXISTING 67" x 95" CULVERT DURING STAGE 1 CONSTRUCTION. THE COST TO MAINTAIN POSITIVE DRAINAGE AND PROVIDE THE NECESSARY EROSION CONTROL MEASURES SHALL BE INCLUDED IN THE CONTRACT PRICE FOR MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.

STAGE 2

4. CONTRACTOR SHALL INSTALL PROPOSED DRAINAGE STRUCTURE #34 AT STA. 156+50, OFF. 30' RT.
5. CONTRACTOR SHALL COMPLETE THE INSTALLATION OF ALL PROPOSED CONNECTIONS THAT ARE DOWNSTREAM OF PROPOSED DRAINAGE STRUCTURE #34 SO THAT POSITIVE DRAINAGE IS MAINTAINED THROUGH CONSTRUCTION OF THE PROPOSED DRAINAGE CROSSING AT STA. 156+50.
6. THE CONTRACTOR SHALL REMOVE TEMPORARY DRAINAGE AND EROSION CONTROL MEASURES INSTALLED DURING STEP 3. THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS. IMMEDIATELY FOLLOWING THE REMOVAL OF TEMPORARY DRAINAGE AND EROSION CONTROL MEASURES, THE CONTRACTOR SHALL INSTALL THE REMAINDER OF PROPOSED DRAINAGE PIPE #31 FROM THE STAGE LINE TO PROPOSED DRAINAGE STRUCTURE #34.

CRITICAL AREA #3 - PROPOSED CULVERT #1 TEMP. DRAINAGE

STAGE 1

1. CONTRACTOR SHALL REMOVE EXISTING 67" x 95" BOX CULVERT AND INSTALL PROPOSED RETAINING WALL AND PROPOSED 10' x 4.5' BOX CULVERT NORTH OF THE STAGE LINE NEAR STATION 156+75.
2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FROM PROPOSED 10' x 4.5' BOX CULVERT TO EXISTING 67" x 95" BOX CULVERT DURING STAGE 1 CONSTRUCTION. THE COST TO MAINTAIN POSITIVE DRAINAGE AND PROVIDE THE NECESSARY EROSION CONTROL MEASURES SHALL BE INCLUDED IN THE CONTRACT PRICE FOR MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.

STAGE 2

3. CONTRACTOR SHALL REMOVE EXISTING 67" x 95" BOX CULVERT AND INSTALL PROPOSED HEADWALL AND PROPOSED 10' x 4.5' BOX CULVERT SOUTH OF THE CONSTRUCTION STAGE LINE. UPON CONNECTION OF THE PROPOSED 10' x 4.5' BOX CULVERT AT THE STAGE LINE, THE CONTRACTOR SHALL REMOVE TEMPORARY DRAINAGE AND EROSION CONTROL MEASURES INSTALLED DURING STEP 2. THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.

CRITICAL AREA #4 - PROPOSED DRAINAGE STRUCTURE #46 & CULVERT #3 TEMP. DRAINAGE

STAGE 1

1. CONTRACTOR SHALL INSTALL PROPOSED DRAINAGE STRUCTURE #46 AT STA. 159+70, OFF. 32' LT AND PROPOSED DRAINAGE STRUCTURE #48 AT STA. 159+85, OFF. 56' LT. PROPOSED DRAINAGE STRUCTURES #46 AND #48 SHALL BE PRE-FABRICATED TO ACCOMMODATE THE TEMPORARY PIPE INVERTS AS SHOWN ON THE STAGE 1 EROSION CONTROL PLAN SHEETS.
2. CONTRACTOR SHALL INSTALL PROPOSED DRAINAGE PIPE #42 FROM PROPOSED DRAINAGE STRUCTURE #46 TO THE CONSTRUCTION STAGE LINE. CONTRACTOR SHALL PLUG PROPOSED DRAINAGE PIPE #42 AT THE CONSTRUCTION STAGE LINE.
3. CONTRACTOR SHALL INSTALL A 12" TEMPORARY STORM SEWER PIPE FROM PROPOSED DRAINAGE STRUCTURE #46 TO PROPOSED STRUCTURE #48. THE PIPE SHALL BE INSTALLED AT THE INVERT ELEVATIONS SHOWN ON THE STAGE 1 EROSION CONTROL PLAN SHEETS.
4. CONTRACTOR SHALL REMOVE EXISTING 24" CULVERT AND INSTALL PROPOSED 30" PIPE CULVERT NORTH OF THE STAGE LINE NEAR STATION 160+00.
5. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FROM PROPOSED 30" PIPE CULVERT TO EXISTING 24" PIPE CULVERT DURING STAGE 1 CONSTRUCTION. THE COST TO MAINTAIN POSITIVE DRAINAGE AND PROVIDE THE NECESSARY EROSION CONTROL MEASURES SHALL BE INCLUDED IN THE CONTRACT PRICE FOR MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.

STAGE 2

4. CONTRACTOR SHALL INSTALL PROPOSED DRAINAGE STRUCTURE #49 AT STA. 160+16, OFF. 32' RT.
5. CONTRACTOR SHALL LOCATE AND UN-PLUG THE END OF PROPOSED DRAINAGE PIPE #42 AND INSTALL THE REMAINDER OF THE PIPE FROM THE CONSTRUCTION STAGE LINE TO PROPOSED DRAINAGE STRUCTURE #49.
6. CONTRACTOR SHALL COMPLETE THE INSTALLATION OF ALL PROPOSED CONNECTIONS THAT ARE DOWNSTREAM OF PROPOSED DRAINAGE STRUCTURE #49 SO THAT POSITIVE DRAINAGE IS MAINTAINED THROUGH CONSTRUCTION OF THE PROPOSED DRAINAGE CROSSING NEAR STA. 160+00.
7. AFTER THE PROPOSED DRAINAGE SYSTEM HAS BEEN COMPLETED, THE TEMPORARY DRAINAGE PIPE INSTALLED DURING STEP 3 SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR CONTROLLED LOW STRENGTH MATERIAL.

CRITICAL AREA #5 - PROPOSED CULVERT #4 TEMP. DRAINAGE

STAGE 1

1. CONTRACTOR SHALL REMOVE EXISTING DUAL 30" PIPE CULVERTS AND INSTALL PROPOSED RETAINING WALL AND PROPOSED DUAL 42" ELLIPTICAL PIPE CULVERTS NORTH OF THE STAGE LINE NEAR STATION 162+70.
2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FROM PROPOSED DUAL 42" ELLIPTICAL PIPE CULVERTS TO EXISTING DUAL 30" PIPE CULVERTS DURING STAGE 1 CONSTRUCTION. THE COST TO MAINTAIN POSITIVE DRAINAGE AND PROVIDE THE NECESSARY EROSION CONTROL MEASURES SHALL BE INCLUDED IN THE CONTRACT PRICE FOR MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.

STAGE 2

3. CONTRACTOR SHALL REMOVE EXISTING DUAL 30" PIPE CULVERTS AND INSTALL PROPOSED DUAL 42" ELLIPTICAL PIPE CULVERTS FROM EXISTING STRUCTURE #60 TO THE CONSTRUCTION STAGE LINE. UPON CONNECTION OF THE PROPOSED DUAL 42" ELLIPTICAL PIPE CULVERTS AT THE STAGE LINE, THE CONTRACTOR SHALL REMOVE TEMPORARY DRAINAGE AND EROSION CONTROL MEASURES INSTALLED DURING STEP 2. THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.

FILE NAME: I:\LakeCo\0822491\Drawn\Sheets\ERC_0806_NOTES.dgn



USER NAME = Steve Prange	DESIGNED - SJP	REVISED -
PLOT SCALE = 20,000' / IN.	DRAWN - SJP	REVISED -
PLOT DATE = 05/29/09	CHECKED - KDN	REVISED -
	DATE - 05/29/09	REVISED -



EROSION CONTROL CONSTRUCTION SEQUENCE				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. N/A TO STA. N/A		1016	02-00110-12-WR	LAKE	206	86A
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				CONTRACT NO. 63209				