

KENDALL COUNTY FOREST PRESERVE MILLBROOK BRIDGE REMOVAL

INDEX OF SHEETS

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1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
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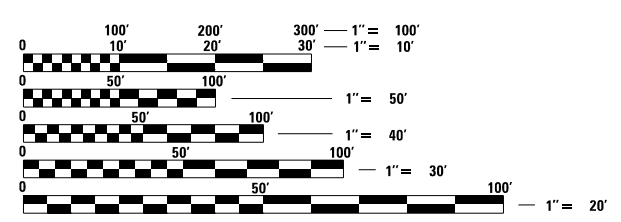
UTILITIES

AT&T
LEGAL MANDATE ENGINEERING
1000 COMMERCE DRIVE, FLOOR 1
OAK BROOK, IL 60523
ATTN: STEVE PESOLA
630-573-5703

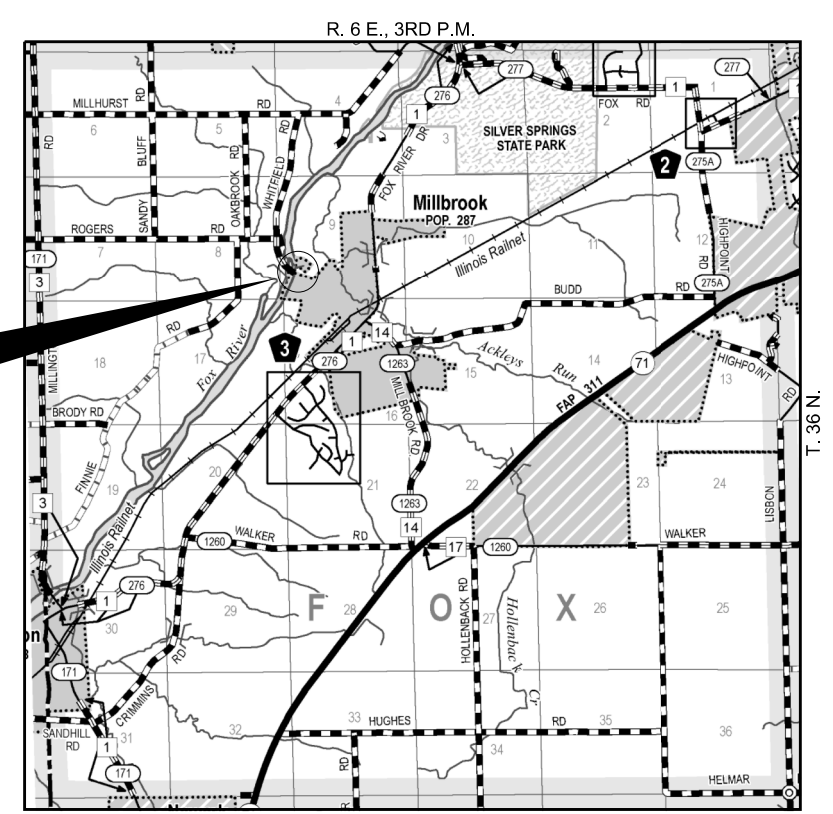
COMED
PUBLIC RELOCATION DEPARTMENT
ONE LINCOLN CENTER, SUITE 600
OAKBROOK TERRACE, IL 60181

AMEREN IP
#6 EXECUTIVE DR.
COLLINSVILLE, IL 62234

PROJECT LOCATION
MILLBROOK BRIDGE REMOVAL
AND SHORELINE RIPRAP EROSION CONTROL

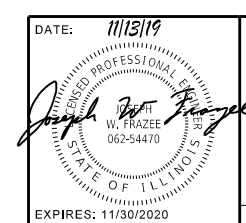


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



LOCATION MAP

APPROXIMATE SCALE: 1/2 MILE



DATE: 11/13/19

HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com

HLR

184.009959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

EXPIRES: 11/30/2020 PROJECT NUMBER: 16.0494.130 DATE: 11/13/19

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	UNIT	QUANTITY
1	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	62
2	CHANNEL EXCAVATION	CU YD	233
3	SEEDING, CLASS 4 (SPECIAL)	ACRE	0.1
4	EROSION CONTROL BLANKET	SQ YD	390
5	STONE RIPRAP, CLASS A4	TON	609
6	FILTER FABRIC	SQ YD	638
7	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
8	REMOVAL OF EXISTING SUBSTRUCTURE	EACH	1
9	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1
10	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1
11	TEMPORARY CAUSEWAY	L SUM	1
12	PIPE CULVERTS, CLASS D, TYPE 1 54" (TEMPORARY)	EACH	15
13	TEMPORARY EROSION CONTROL SEEDING (SPECIAL)	POUND	40

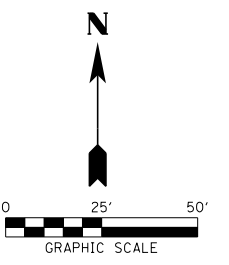
^ SEE SPECIAL PROVISIONS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016", HERE IN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2020; THE DETAILS IN THE PLANS AND THE "SPECIAL PROVISION INCLUDED IN THE DOCUMENTS.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD OBSERVATION AND INFORMATION AVAILABLE FROM THE UTILITY COMPANIES. THIS INFORMATION REPRESENTS ONLY THE OPINION OF THE LOCAL AGENCY AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 STONE RIPRAP 1.75 TON/CU YD
- THE AREA TO BE SEEDD SHALL CONSIST OF ALL DISTURBED EARTH SURFACES AS DIRECTED BY THE ENGINEER.
 ESTIMATED QUANTITY: SEEDING, CLASS 4 (SPECIAL) = 0.1 ACRE

BENCH MARKS

- BM#1 SQUARE CHISLED IN SE WINGWALL
ELEV. 567.77
- BM#2 BENCH TIE IN 24" TREE JUST
EAST OF ABUTMENT
ELEV. 567.40
- BM#3 CROSS NOTCH ON WEST ABUTMENT
ELEV. 565.87

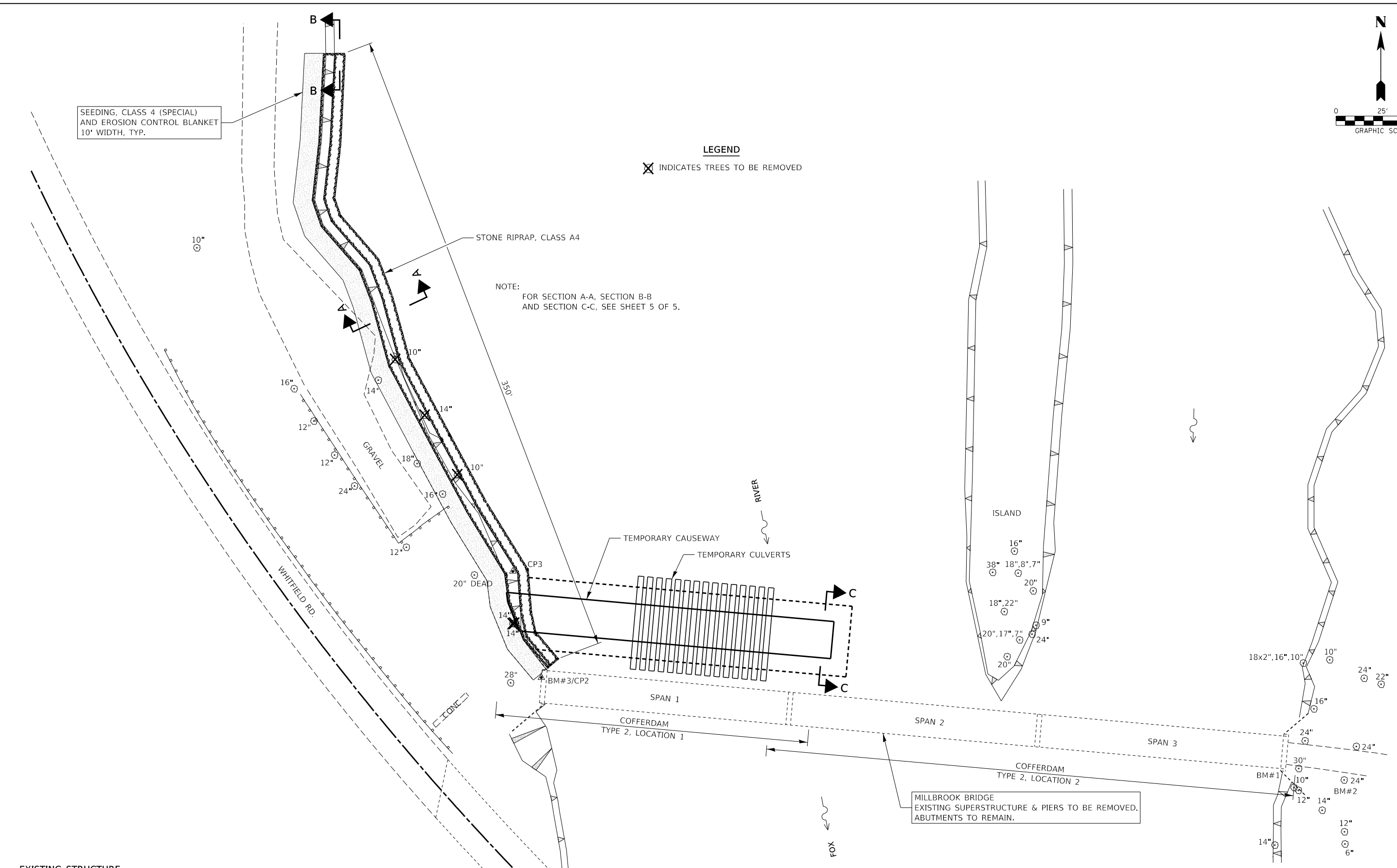


SEEDING, CLASS 4 (SPECIAL)
AND EROSION CONTROL BLANKET
10' WIDTH, TYP.

LEGEND
X INDICATES TREES TO BE REMOVED

STONE RIPRAP, CLASS A4

NOTE:
FOR SECTION A-A, SECTION B-B
AND SECTION C-C, SEE SHEET 5 OF 5.



EXISTING STRUCTURE
THREE SPAN STEEL PRATT THROUGH TRUSS BRIDGE WITH
TIMBER DECK ON CONCRETE AND STONE ABUTMENTS AND
STONE PIERS. 401'-4" LONG; 17'-6" o.-o. DECK;
SPAN LENGTHS 133'-9", 133'-10", 133'-9"

MILLBROOK BRIDGE
EXISTING SUPERSTRUCTURE & PIERS TO BE REMOVED.
ABUTMENTS TO REMAIN.

FILE NAME = 160494-shi-exh1.dgn	USER NAME = tlmk	DESIGNED - J.W.F.	REVISED -	KENDALL COUNTY FOREST PRESERVE	SITE PLAN		COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -		KENDALL	5	3	MILLBROOK BRIDGE		
PLOT DATE = 11/18/2019	DATE - 11/13/19	CHECKED - S.W.M.	REVISED -		SCALE: 1"=50'	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.		
		REVISIONS								

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL (IUM), THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016 AND THE PLAN DETAILS.
2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES. IT SHALL BE PRESENTED UPON REQUEST FROM ANY AUTHORIZED AGENT.
3. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.
4. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS.
5. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
6. THE CONTRACTOR SHALL CLEAN UP AND GRADE THE WORK AREA AS THE PROJECT PROGRESSES TO ELIMINATE THE CONCENTRATION OF RUNOFF. THE PAVEMENT SHALL BE CLEANED DAILY TO REMOVE EARTH MATERIAL TO THE SATISFACTION OF THE ENGINEER.
7. ALL TEMPORARY EROSION CONTROL MEASURES MUST BE MAINTAINED AND IMMEDIATELY REPLACED AS NEEDED AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL INSPECTION AND REPAIR. THE CONTRACTOR SHALL INSPECT AND COMPLETE MAINTENANCE OF ALL ITEMS A MINIMUM OF EVERY 7 DAYS AND WITHIN 24 HOURS OF A ONE-HALF INCH RAINFALL. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SEEDING IS ACHIEVED. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
8. TEMPORARY STOCKPILES OF MATERIALS MAY NOT BE LOCATED IN WETLANDS, CHANNELS, OR DRAINAGE SWALES. THE LOCATION OF ANY TEMPORARY STOCKPILE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. STOCKPILES TO REMAIN IN PLACE MORE THAN THREE DAYS SHALL BE FURNISHED WITH EROSION & SEDIMENT CONTROL (I.E. PERIMETER EROSION BARRIER). STOCK PILES TO REMAIN IN PLACE FOR THIRTY DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.
9. THE CONTRACTOR SHALL MAINTAIN AND PRESERVE ANY EXISTING SUB SURFACE DRAINAGE SYSTEMS (I.E. FIELD TILES) ACCORDING TO SECTION 611 OF THE IDOT STANDARD SPECIFICATIONS.
10. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKY EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
11. THE CONTRACTOR SHALL PLACE PERMANENT SEEDING AND EROSION CONTROL BLANKET (IUM STANDARD 530) ON ALL DISTURBED EARTH SLOPES. EROSION CONTROL BLANKET WITH GREEN DYE IS NOT PERMITTED.
12. TEMPORARY SEEDING SHALL BE COMPLETED ON ALL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH CONSTRUCTION WILL BE STOPPED FOR A PERIOD OF MORE THAN 14 CALENDAR DAYS.

IN-STREAM WORK NOTES

1. WORK IN THE WATERWAY SHALL BE TIMED TO TAKE PLACE DURING LOW FLOW CONDITIONS. LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION. IN-STREAM WORK SHALL NOT BE COMPLETED DURING THE MONTHS OF APRIL THROUGH JUNE TO COMPLY WITH THE IDNR INCIDENTAL TAKE AUTHORIZATION.
2. THE CONTRACTOR SHALL DESIGN AN IN-STREAM WORK PLAN TO ALLOW FOR THE CONVEYANCE OF THE LOW FLOW PAST THE WORK AREA WITHOUT OVERTOPPING. THE LOW FLOW RATE IS ESTIMATED AS 1700 CFS. THE CONTRACTOR SHALL SUBMIT PLANS OF THE PROPOSED CAUSEWAY AND COFFERDAM TO THE ENGINEER FOR APPROVAL PRIOR TO WORK.
ESTIMATED WATER SURFACE ELEVATION (EWSE) = 551.0 FEET.
3. WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, INFLATABLE WATER BARRIERS, RIP RAP AND GEOTEXTILE LINER, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
4. THE COFFERDAM SHALL BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER FLOWING WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE WORK. TIMBER MATS OR LOW GROUND PRESSURE TIRES SHALL BE USED FOR EQUIPMENT IN THE COFFERED AREA.
5. DURING DEWATERING OF THE COFFERED AREA, THE HOSE INTAKE SHALL BE PLACED IN A SUMP PIT (IUM STANDARD 650) AND THE OUTLET DISCHARGED ON A NON-ERODIBLE ENERGY DISSIPATING SURFACE. ALL SEDIMENT-LADEN WATER MUST BE FILTERED. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMER SYSTEMS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY. THE EXACT MEANS, METHODS, AND LOCATIONS OF DEWATERING SHALL BE SHALL BE APPROVED BY THE ENGINEER BEFORE COMMENCEMENT OF WORK.
6. IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES. THE AREA FROM THE TOE TO THE TOP OF THE SIDE SLOPE SHALL BE TEMPORARILY STABILIZED DURING CONSTRUCTION TO REDUCE THE POTENTIAL FOR EROSION. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.
7. THE CONTRACTOR SHALL COOPERATE WITH THE FOREST PRESERVE BIOLOGISTS TO ALLOW FOR FISH SAMPLING, RELOCATION DURING DEWATERING, AND OTHER ACTIVITIES TO COMPLY WITH THE IDNR INCIDENTAL TAKE AUTHORIZATION IN THE SPECIAL PROVISIONS.

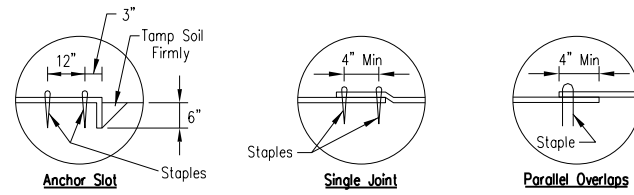
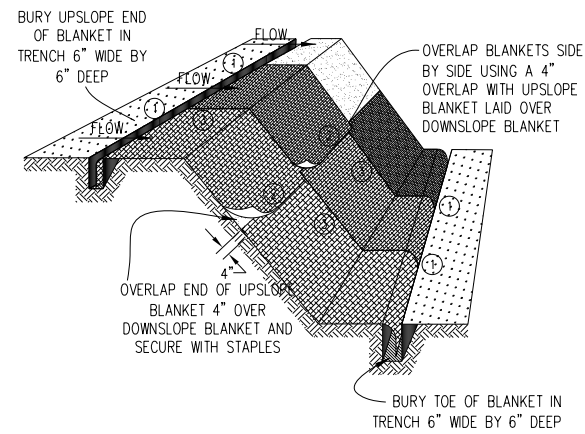
SOIL STABILIZATION CHART

STABILIZATION TYPE	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
PERMANENT SEEDING				A ←		* *						
DORMANT SEEDING	B										B ←	
TEMPORARY SEEDING			C ←									
EROSION CONTROL	D ←											

- A. SEEDING CLASS 4 * IRRIGATION MAY BE NEEDED DURING JUNE AND JULY
- B. INCREASE SEEDING RATE BY 25% WHEN DORMANT SEEDING
- C. TEMPORARY EROSION CONTROL SEEDING AND MULCH, METHOD 2
- D. EROSION CONTROL BLANKET (PERMANENT SEED AREAS ONLY)

SEEDING MIXTURE		
CLASS - TYPE	SEEDS	LB/ACRE
4 (SPECIAL)	ANDROPOGON SCOPARIUS (LITTLE BLUE STEM)	5
Native Grass	BOUTELOUA CURTIPENDULA (SIDE-OATS GRAMA)	5
	ELYMUS CANADENSIS (CANADA WILD RYE)	1
	ERAGROSTIS SPECTABILIS (PURPLE LOVE GRASS) *	5
	KOELERIA CRISTATA (JUNE GRASS) *	5
	PANICUM VIRGATUM (SWITCH GRASS) *	1
	SPOROBOLUS HETEROLEPIS (PRAIRIE DROPSEED)	4
	ANNUAL RYEGRASS	25
	OATS, SPRING	25

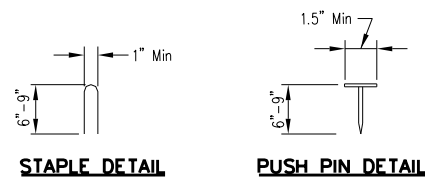
* - SEED TYPE NOT INCLUDED IN STANDARD IDOT CLASS 4 MIX



DETAIL 1

DETAIL 2

DETAIL 3



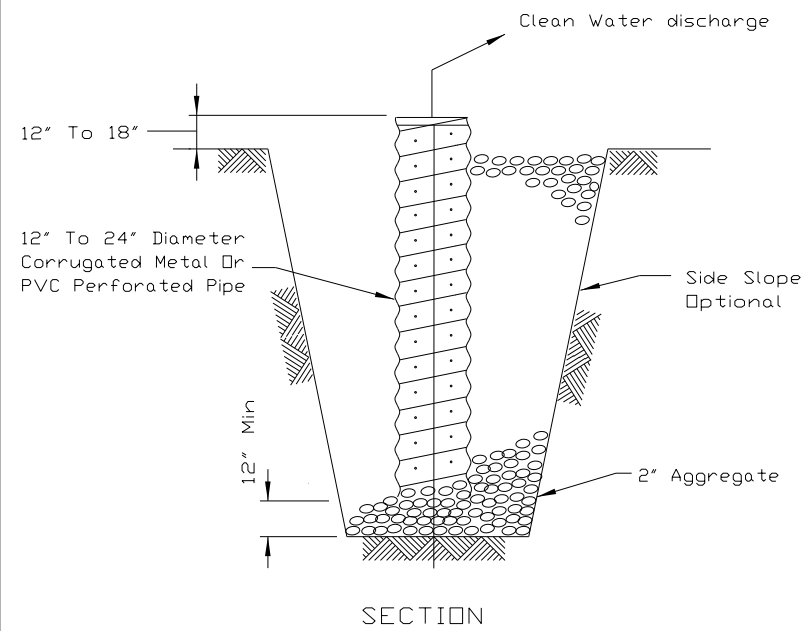
NOTES:

1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 staples with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

EROSION CONTROL BLANKET INSTALLATION DETAILS

Designed	Date
Drawn R. JOHNSON	11/08
Checked	
Approved	

SUMP PIT PLAN



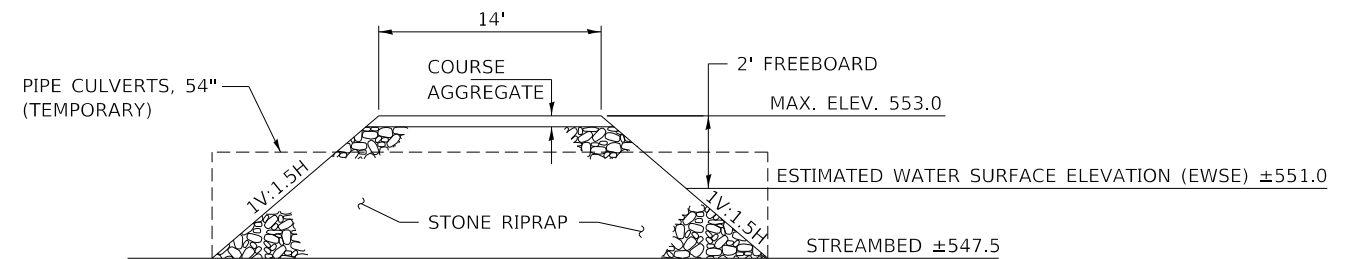
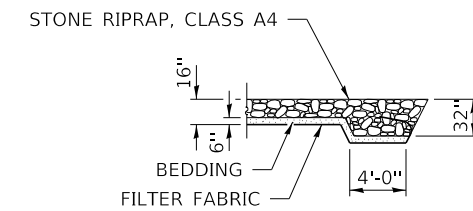
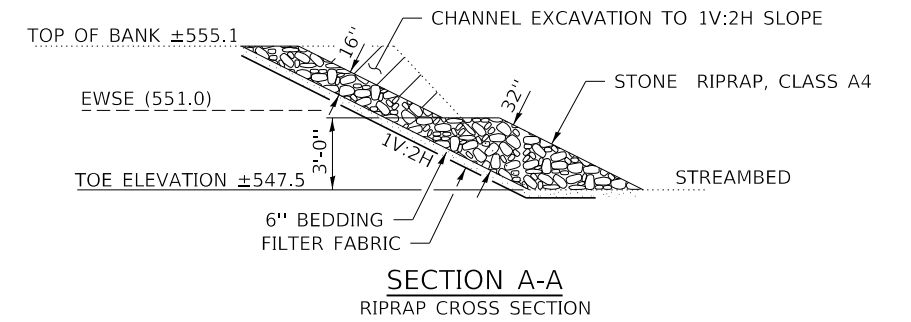
NOTES:

1. Pit dimensions are optional.
2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
4. The standpipe will extend 12" to 18" above the lip of the pit.
5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE Project	Date
Designed	Date
Checked	Date
Approved	Date



STANDARD DWG. NO.
IL-650
SHEET 1 OF 1
DATE 8-11-94



FILE NAME = 160494-shi-exhib1.dgn	USER NAME = tmmk	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -
3035 STEVENSON DRIVE, SUITE 201		CHECKED - S.W.M.	REVISED -
SPRINGFIELD, ILLINOIS 62703		DATE - 11/13/19	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
LS / PE / SE CORP. 184.000959			

KENDALL COUNTY FOREST PRESERVE

DETAILS

SCALE:	SHEET NO. 4 OF 4 SHEETS	STA.	TO STA.
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COUNTY	TOTAL SHEETS	SHEET NO.
KENDALL	5	5
MILLBROOK BRIDGE		