STATE OF ILLINOIS DEPARTMENT OF NATURAL RESOURCES



- SI GENERAL NOTES & BILL OF MATERIALS
- S2 SPILLWAY REMOVAL
- S3 FLOW AUGMENTATION CULVERT I
- S4 FLOW AUGMENTATION CULVERT II S5 FLOW AUGMENTATION CULVERT III
- S6 PEDESTRIAN RAILING PLAN
- S7 PEDESTRIAN RAILING DETAILS
- S8 BYPASS STOPLOG I
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- SIO UPPER DIVIDER ISLAND ROLLER COMPACTED CONCRETE
- S11 ROLLER COMPACTED CONCRETE SECTIONS & DETAILS
- S12 WEIR BLOCK

<u>GENERAL NOTES</u>

- M322, Grade 60.
- for the work.
- Excavation or Rock Excavation.
- 5. The Earth Excavation and Rock Excavation quantities billed with the civil plans include all excavation work for structures.



DRWG. S1 OF S12

1. Reinforcement bars shall conform to the requirements of AASHTO M31 or

2. Plan Dimensions and details relative to existing structures have been taken from existing plans and/or past surveys and reports are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid

3. All construction joints in cast-in-place concrete shall be bonded. 4. Excavation for structures within the temporary cofferdam system will not be paid for as Cofferdam Excavation but shall be paid for as Earth

Concrete Remov Recorder Gage Stone Riprap R Riprap for Stilli Galvanized Weld Furnishing and Precast Concret Concrete Struct Reinforcement Slide Gate Steel Trash Rad Pedestrian Raili Precast Stoplog Roller Compacte

DESIGN SPECIFICATIONS

<u>DESIGN LOADING</u>

Fox River		Bypass Channel	
Headwater	Tailwater	Headwater	Tailwater
577.7	574.7	575.6	575.6
577.7 or 565.0	574.7 or 565.0	575.6 or 565.0	575.6 or 565.0
575.6	569.8	572.4	571.0
579.7	578.6	579.0	579.0
-	Headwater 577.7 577.7 or 565.0 575.6	HeadwaterTailwater577.7574.7577.7 or 565.0574.7 or 565.0575.6569.8	Headwater Tailwater Headwater 577.7 574.7 575.6 577.7 or 565.0 574.7 or 565.0 575.6 or 565.0 575.6 569.8 572.4

DESIGN STRESSES

Cast-in-Place Concrete f'c = 3,500 psi Roller Compacted Concrete f'c=3500 psi (28 day) Reinforcement Allowable Rock Bearing

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OFFICE OF WATER RESOURCES

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BILL OF MATERIAL

SUMMARY FOR DRAWINGS S1-S10

Item	Unit	Total
val	Cu yd	283
House Removal	L Sum	1
Removal	Ton	341.8
ling Basin Relocation	Ton	1361
led Steel Bar Grating	sq ft	38.8
Erecting Structural Steel	lb	<i>1</i> 686
ete Box Culvert 5'x3'	f†	5.0
tures	Cu yd	159
Bars, Epoxy Coated	lb	12,680
	each	1
ıck	each	1
ling	f†	88
g Blocks	L sum	1
ed Concrete	Cu yd	4081

U.S. Army C.O.E. EM1110-2-2104 - Strength Design for Reinforced Concrete Hydraulic Structures (2003) U.S. Army C.O.E. EC1110-2-6058 - Stability Analysis of Concrete Structures (2003)

<u>SEISMIC DATA</u>

fy = 60,000 psi Qall = 50 tsf

Sa (t=0.3 sec): 0.04g at Tr = 144 Yr 0.09g at Tr = 1000 Yr

GENERAL NOTES & BILL OF MATERIALS

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