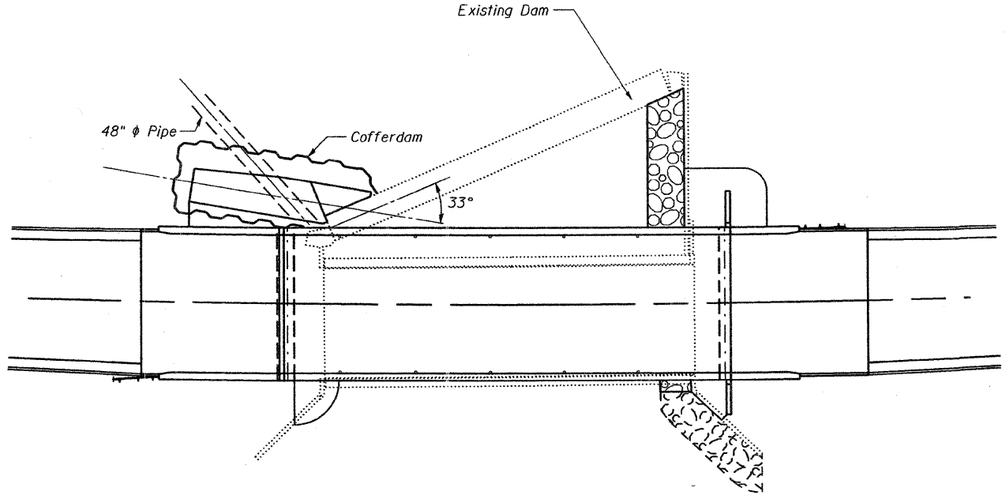
B.M. #1: RR Spike in Power Pole
Sta. 96+85, 40' RT.
Elev. = 580.37

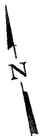
B.M. #2: Chisled "□" on S.W. Corner of Existing Bridge
Sta. 99+60, 19' RT.
Elev. = 587.24

B.M. #3: Chisled "□" on Conc. Ret. Wall
Sta. 102+81, 19' RT.
Elev. = 596.00

DESIGN STRESSES

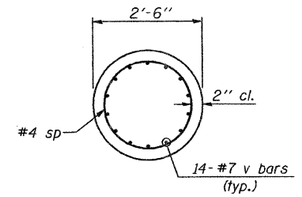
(FIELD UNITS)
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (Reinforcement)



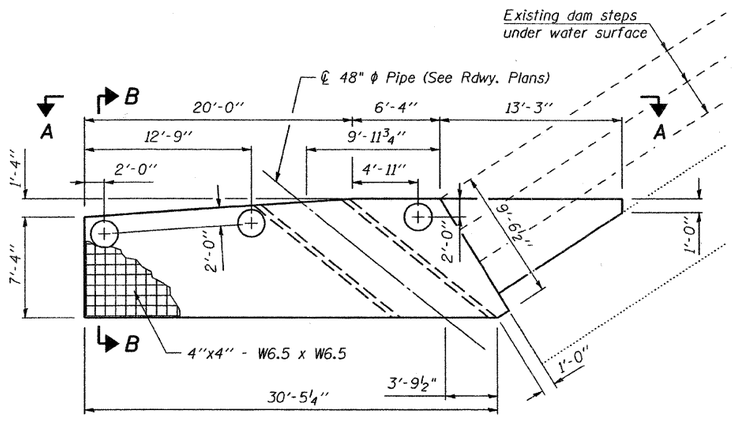


MINIMUM MESH LAP

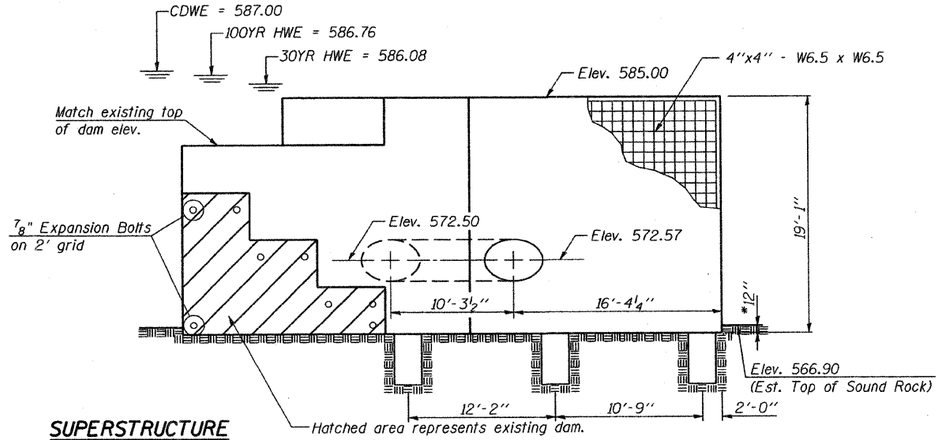
4"x4" - W6.5 x W6.5 = 8"



SECTION C-C

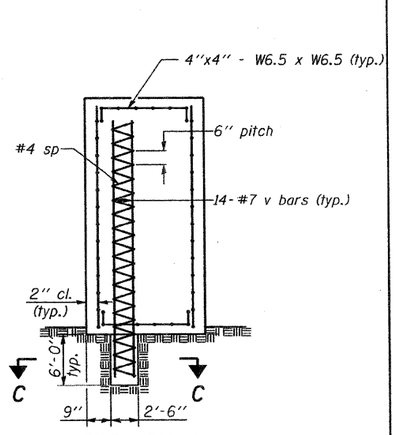


PLAN



VIEW A-A

* Key into Rock 12"



SECTION B-B

Notes:
Structure shall be reinforced with welded wire fabric, 4"x4" - W6.5 x W6.5, weighing 133 lbs. per 100 sq. ft. (or equivalent).
Welded wire fabric included in cost of Concrete Structures.
See Special Provision "Portland Cement Concrete," Section 1020.15 for Heat of Hydration Control.
Existing dam geometry is unknown below water and ground surfaces.
Place mesh on all concrete faces.
Concrete in Dam shall be Class SI concrete.
Lap spiral 2 full turns.

SUPERSTRUCTURE BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	v	42	#7	22'-0"	——
**	sp	3	#4	22'-0"	wwwwww
(1)	Cofferdam (Type 2) (Location-1)			EACH	1
(1)	Concrete Structures			CU YD	182.6
	Cofferdam Excavation			CU YD	250
	Rock Excavation			EACH	9
***	Expansion Bolts ⅞ Inch			CU YD	45
	Drilled Shaft in Rock			CU YD	3.3
	Reinforcement Bars, Epoxy Coated			POUND	2,490

(1) See Special Provisions
** Length is height of spiral.
*** Quantity is estimated. may require different quantitiy based on the geometry of the existing dam.

DESIGNED	NPH
CHECKED	BAN
DRAWN	RMD
CHECKED	BAN

BENJAMIN A. NEIL 081-006527 REGISTERED PROFESSIONAL ENGINEER ILLINOIS
11/30/11
Lic.Exp. 11/30/2012

DAM EXTENSION
RIVER RD. (F.A.U. 3799) OVER BLACKBERRY CREEK
SECTION 08-00036-00-BR
KENDALL COUNTY

SHEET NO. 1	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1 SHEETS	FAU 3799	08-00036-00-BR	KENDALL	54	45
			CONTRACT NO. 87509		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRM-9003(883)		

29870AM01