Benchmark: Chiseled "x" on east end of existing headwall. Elev. 718.76

* Match invert and slope of existing culvert

Existing Structure: Double 6'x6' Precast Concrete Box Culvert, extended in 1998.

Steel Handrail See Sheet 3 of 3 for

location and details

Flow

€ Culvert -Path Sta. 2+19.15

No Salvage.

COUNTY HIGHWAY FISCAL YEAR TOTAL SHEETS 27 2005 30 SEC 03-00001-06-BT DUPAGE COUNTY

CONTRACT NO.: 83805

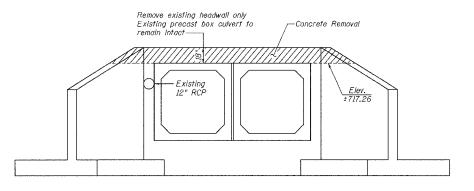
GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and 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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

All Construction joints shall be bonded.

Coordinate construction of the east wingwall with storm sewer reconstruction plans.



REMOVAL NOTES:

Cut existing reinforcement flush with removal surface.

Existing 12" storm sewer shall be removed.

REMOVAL DETAILS Looking South



I certify to the best of my knowledge, information and belief, this bridge, box culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specification for Highway Bridges".

LOADING HS20-44 DESIGN SPECIFICATIONS AASHTO 17th Ed. - 2002

DESIGN STRESSES FIELD UNITS

 $f'_{o} = 3,500 \text{ psi}$ $f_{V} = 60,000 \text{ psi (reinforcement)}$

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL	
Concrete Removal	Cu. Yd.	1.4	
Concrete Box Culverts	Cu. Yd.	19.2	
Reinforcement Bars	Pound	3830	
Expansion Bolts 3/4 Inch	Each	40	
Pipe Handrail	Foot	33	

<u>PLAN</u>

10'-0" Multi-Use Path

---- P.G.L.

10'-0" Multi-Use Path

Invert Elev. 710.59*

LONGITUDINAL SECTION

Existing 12" RCP 1.

— Profile Grade Elev. = 718.92

-Back of Existing C&G

NO.	BY	REVISION	NO.	DATE	1	REVISION	SCALE	N/A		
							DRAWN BY	BLB	DATE	RN
							CHECKED BY	W JV	DATE	. O .
							APPROVED BY		DATE	GROUS

RJN GROUP, INC. **CONSULTING ENGINEERS**

Southern DuPage County Regional Trail 101st Street Connector - Waterfall Glen Spur

CULVERT EXTENSION

DATE: JUNE 9, 2005 PROJECT No.: II-1900-01 HEET: 1 of 3