F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1414B	COOK	74	31
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60384

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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 bid for the work.

Concrete Sealer shall be applied to the seat area of the abutments.

Detailed Demolition Plans shall be submitted to the C.T.A. and the Engineer for review and approval. Refer to Specification Section 501 and Special Provision for additional requirements.

The existing metal handrail shall be salvaged and delivered undamaged to IDOT's maintenance facility at the following address:

1101 Biesterfield Road
Elk Grove Village, IL 60007

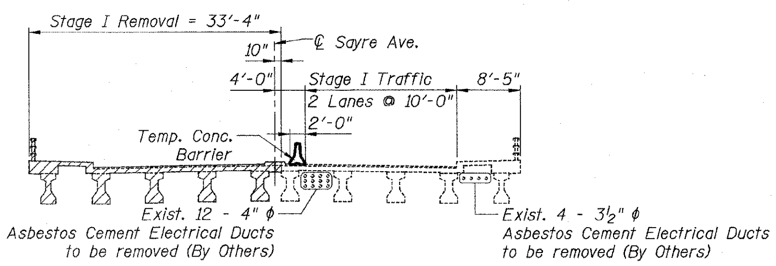
Cost to be included with Removal of Existing Superstructures .

The existing protective shield shall be salvaged by the Contractor and delivered to IDOT's Maintenance Yard in Elk Grove (see address above). Maintenance Yard requires 48 hours advance notice (Phone 847-956-1444). This work shall include removing, transporting and unloading the protective shield at the above yard which cost shall be considered included in the cost of Removal of Existing Superstructures.

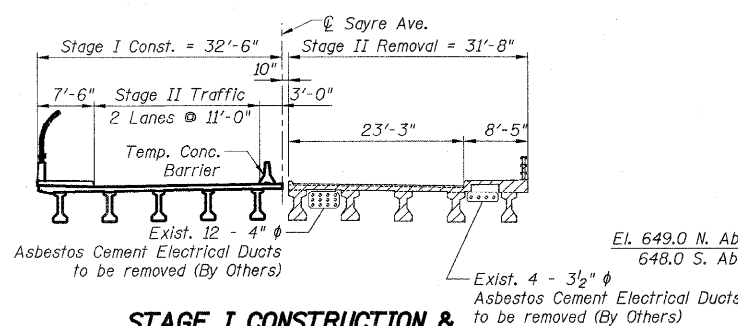
BRIDGE BILL OF MATERIAL

	ITEM	UNIT	SUPER.	SUB.	TOTAL
	Protective Coat	Sq. Yd.	1,837		1,837
	Removal of Existing Superstructures	Each	1		1
	Concrete Removal	Cu. Yd.		35.8	35.8
	Structure Excavation	Cu. Yd.		169	169
	Preformed Joint Strip Seal	Foot	132		132
	Concrete Structures	Cu. Yd.		62.3	62.3
	Concrete Superstructure	Cu. Yd.	589.0		589.0
	Bridge Deck Grooving	Sq. Yd.	1,243		1,243
	Elastomeric Bearing Assembly, Type I	Each	40		40
	Elastomeric Bearing Assembly, Type II	Each	20		20
	Anchor Bolts, 1"	Each	40		40
	Anchor Bolts, 1¼"	Each	80		80
	Anchor Bolts, 1½"	Each	4		4
*	Polymer Modified Portland Cement Mortar	Sq. Ft.		60	60
*	Structural Repair of Concrete (Depth Greater than 5")	Sq. Ft.		300	300
*	Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.		519	519
	Furnishing and Erecting Precast Prestressed Concrete I-Beams, 48"	Foot	2,314		2,314
	Reinforcement Bars, Epoxy Coated	Pound	111,230	5,540	116,770
*	Temporary Sheet Piling	Sq. Ft.		901	901
	Name Plates	Each	1		1
	Concrete Sealer	Sq. Ft.		326	326
	Epoxy Crack Injection	Foot		144.6	144.6
	Bridge Fence Railing	Foot	459		459
	Bar Splicers	Each	665	142	817
*	Protective Shield	Sq. Yd.	1,672		1,672
*	Slope Wall Slurry Pumping	Cu. Yd.		10.7	10.7
*	Drainage System	L. Sum		1	1
	Drainage Scuppers, DS-12	Each	16		16
*	Porous Granular Embankment (Special)	Cu. Yd.		169	169

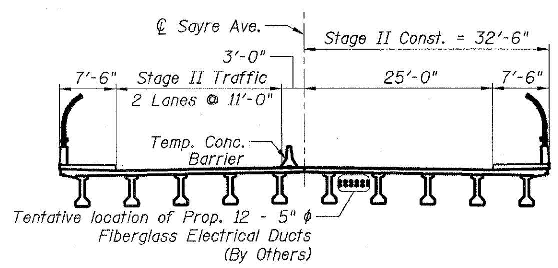
* See Special Provisions



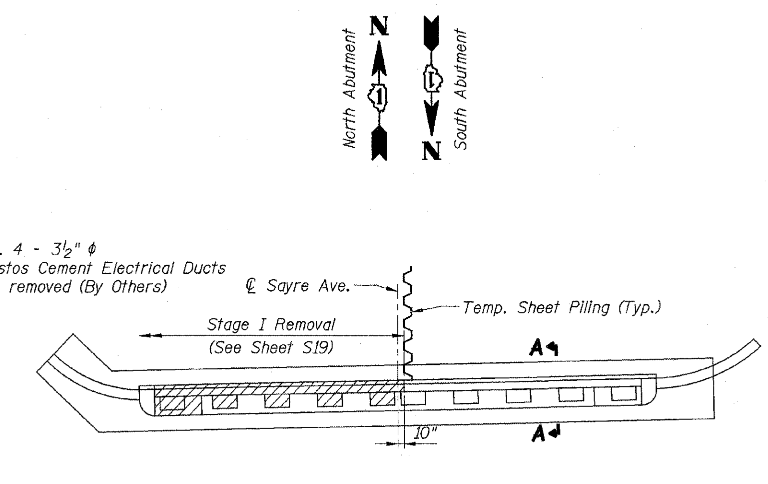
STAGE I REMOVAL
(Looking North)



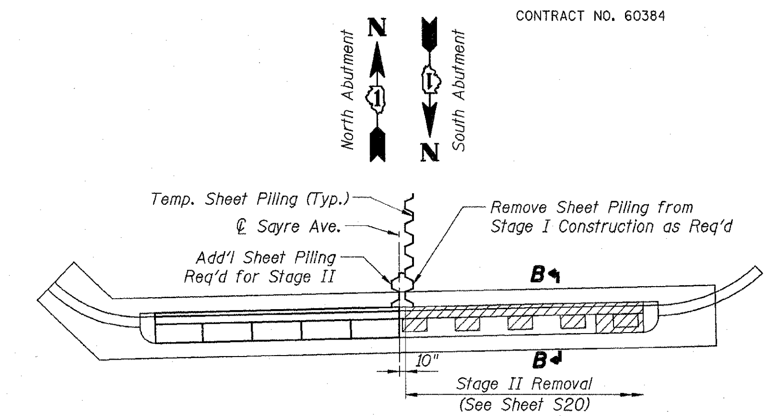
STAGE I CONSTRUCTION & STAGE 2 REMOVAL
(Looking North)



STAGE II CONSTRUCTION
(Looking North)



PLAN
(North Abut. Shown - South Abut. Similar)



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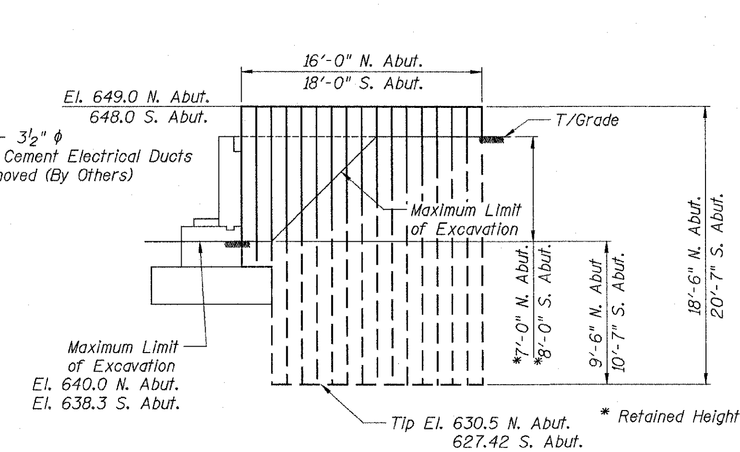
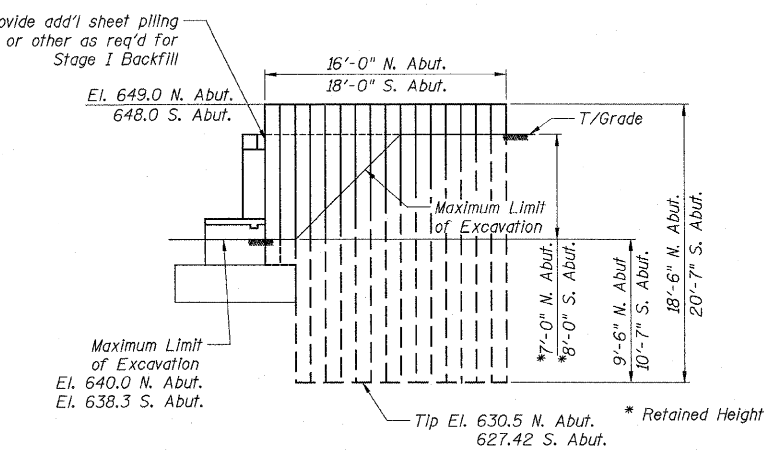


SECTION A-A

TEMPORARY SHEET PILING FOR STAGE I CONSTRUCTION



SECTION B-B

TEMPORARY SHEET PILING FOR STAGE II CONSTRUCTION

NOTES:

1. All cross sections looking north unless shown otherwise. Hatched abutment areas indicate portion of "Concrete Removal". Hatched superstructure areas indicate "Removal of Existing Superstructures
2. For temporary concrete barrier see Sheet #S3. Pay items for temporary concrete barrier are included in roadway plans.
3. Minimum section modulus for temporary sheeting shall be 7.1 in^3 per foot of length. Fy=38,500 psi for temporary sheet piling.
4. If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans for lesser design requirements, then full design submittals with the required seals will be expected by the Department, for review and approval.

SUGGESTED SEQUENCE OF STAGE REMOVAL AND CONSTRUCTION OF SHEET PILING

1. Install sheet piling for stage I construction.
2. Sawcut existing slab and backwall @ stage I removal line and excavate around stage I removal prior to removal of existing structure.
3. Remove stage I structure.
4. Proceed stage I construction.
5. Install additional sheet piling for stage I backfill and stage II construction.
6. Excavate around stage II removal prior to removal of stage II structure.
7. Remove stage II structure.
8. Proceed stage II construction.
9. Remove sheet piling to a limit at least 2 feet below top of pavement elevation.

BILL OF MATERIAL

	Item	Unit	Quantity
*	Temporary Sheet Piling	Sq. Ft.	901

* See Special Provisions

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL NOTES &
BRIDGE BILL OF MATERIAL
FA ROUTE 173 (SAYRE AVENUE) OVER
INTERSTATE 90 (KENNEDY EXPRESSWAY)
COOK COUNTY STATION 8+02.48
SECTION 267-1414-15D
STRUCTURE NO. 016-1104
SCALE: NONE DRAWN BY: R. Clinton
DATE: DEC. 2007 CHECKED BY: G. Hatlestad

PATRICK ENGINEERING INC.
LISLE, ILLINOIS