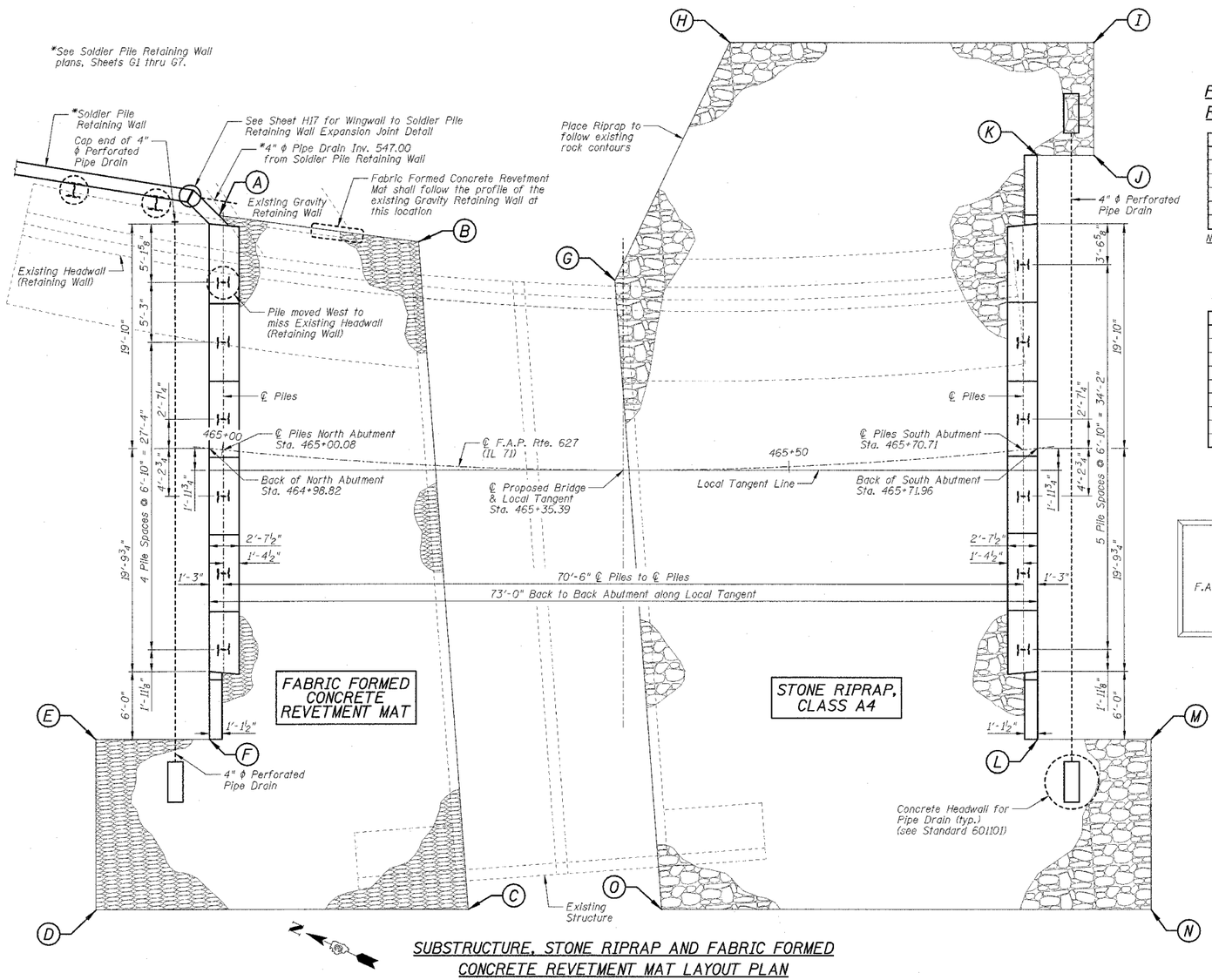
CONTRACT NO. 66372

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	62
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET NO. H12 OF 26 SHEETS



SUBSTRUCTURE, STONE RIPRAP AND FABRIC FORMED CONCRETE REVETMENT MAT LAYOUT PLAN

Note: Pile Spacing is the same for both Abutments unless otherwise noted.

FABRIC FORMED CONCRETE REVETMENT MAT LOCATION

Location	Station	Offset Distance
A	464+97.41	20.50' LT.
B	465+16.24	19.72' LT.
C	465+23.12	39.09' RT.
D	464+93.89	41.70' RT.
E	464+92.19	26.82' RT.
F	465+01.41	25.68' RT.

Note: Stations and offsets for the Fabric Formed Concrete Revetment Mat are from the roadway centerline.

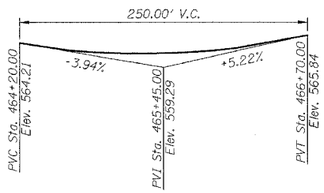
STONE RIPRAP LOCATION

Location	Station	Offset Distance
G	465+34.63	16.83' LT.
H	465+46.01	37.66' LT.
I	465+81.82	34.95' LT.
J	465+80.34	25.05' LT.
K	465+74.98	25.67' LT.
L	465+69.38	25.68' RT.
M	465+78.60	26.82' RT.
N	465+76.90	41.70' RT.
O	465+38.41	38.86' RT.

Note: Stations and offsets for the Stone Riprap, Class A4 are from the roadway centerline.

STATION 465+35.39
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RTE. 627 SECTION (I-1) BR & I
LOADING HS20
STR. NO. 050-0239

NAME PLATE DETAIL
See Standard 515001



PROFILE GRADE
F.A.P. Rte. 627 (IL 71) (Along ℄ Roadway)

WATERWAY INFORMATION

Drainage Area (Sq. Mi.) = 0.42 Existing Low Grade Elevation = 561.4 ft. @ Sta. 465+35
Proposed Low Grade Elevation = 562.1 ft. @ Sta. 465+28

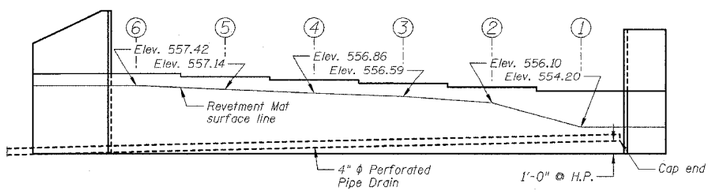
Flood	Freq. Year	Q C.F.S.	Opening (Sq. Ft.) Exist.	Opening (Sq. Ft.) Prop.	Ex. Nat. H.W.E.	Pr. Nat. H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	310	41	53	544.00	542.80	0.20	0.00	544.20	542.80
Design	50	499	52	77	544.90	543.60	0.60	0.00	545.50	543.60
Base	100	581	56	87	545.30	544.00	0.80	0.00	546.10	544.00
Overtopping										
Max. Calc.	500	779	67	116	546.20	544.90	1.50	0.00	547.70	544.90

TOTAL BILL OF MATERIALS

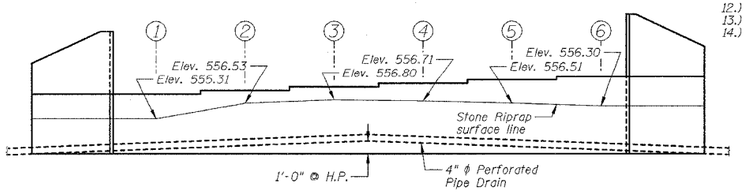
ITEMS	UNITS	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu Yd		188	188
Stone Riprap, Class A4	Sq Yd		338	338
Filter Fabric	Sq Yd		338	338
Fabric Formed Concrete Revetment Mats	Sq Yd		201	201
Removal of Existing Structures No. 3	Each	1		1
Concrete Removal	Cu Yd		6.2	6.2
Structure Excavation	Cu Yd		2210	2210
Rock Excavation for Structures	Cu Yd		9	9
Concrete Structures	Cu Yd		50.4	50.4
Concrete Superstructure	Cu Yd	122.9		122.9
Bridge Deck Grooving	Sq Yd	277		277
Protective Coat	Sq Yd	356		356
Rustication Finish	Sq Ft	345	696	1041
Furnishing And Erecting Precast Prestressed Concrete I-Beams, 42"	Foot	434		434
Reinforcement Bars, Epoxy Coated	Pound	21450	6380	27830
Furnishing Steel Piles HP 12x63	Foot		150	150
Driving Steel Piles	Foot		150	150
Test Pile Steel HP 12x63	Each		2	2
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq Yd		89	89
Pipe Underdrains for Structures, 4"	Foot		104	104
Bar Splicers	Each	72		72
Drainage Scuppers, DS-12	Each	2		2

GENERAL NOTES:

1.) Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
2.) Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
3.) The Contractor shall drive one Test Pile at each abutment in a permanent location as directed by the Engineer before ordering the remainder of piles.
4.) All construction joints shall be bonded.
5.) Plan dimensions and details relative to existing gravity wall 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 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.
6.) It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with the cost of "Concrete Structures".
7.) See Sheets H20 through H22 for soil boring and rock core data.
8.) See Sheet H19 for the limits of "Rustication Finish". For information on the approved form liner for the "Rustication Finish", see the Special Provisions.
9.) All Precast and Cast-in-Place Concrete shall be integrally colored. For information on the approved color additive for "Integrally Colored Precast Concrete and "Integrally Colored Cast-in-Place Concrete", see the Special Provisions.
10.) Removal of the Existing Gravity Retaining Wall may be varied in the field to suit the construction requirements as directed by the Engineer.
11.) Removal of the Existing Headwall (Retaining Wall) may be varied in the field to suit the construction requirements as directed by the Engineer.
12.) All exposed edges shall be chamfered ¾" except as noted.
13.) C.I.P. denotes Cast-in-Place.
14.) The existing plans are provided for informational use only.



NORTH ABUTMENT ELEVATION, TYPICAL DRAIN DETAIL



SOUTH ABUTMENT ELEVATION, TYPICAL DRAIN DETAIL

DESIGNED BY	Farnsworth GROUP	FILE NO.
J.M.L.	2709 McGraw Drive	24-6772
DRAWN BY	Bloomington, Illinois 61704	DATE
D.J.M.	309/663-8435, 309/663-1571fax	05-12-06
CHECKED BY		SHEET NO.
M.S.W.		62 of 106

GENERAL NOTES, BILL OF MATERIALS AND SUBSTRUCTURE LAYOUT PLAN
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239