

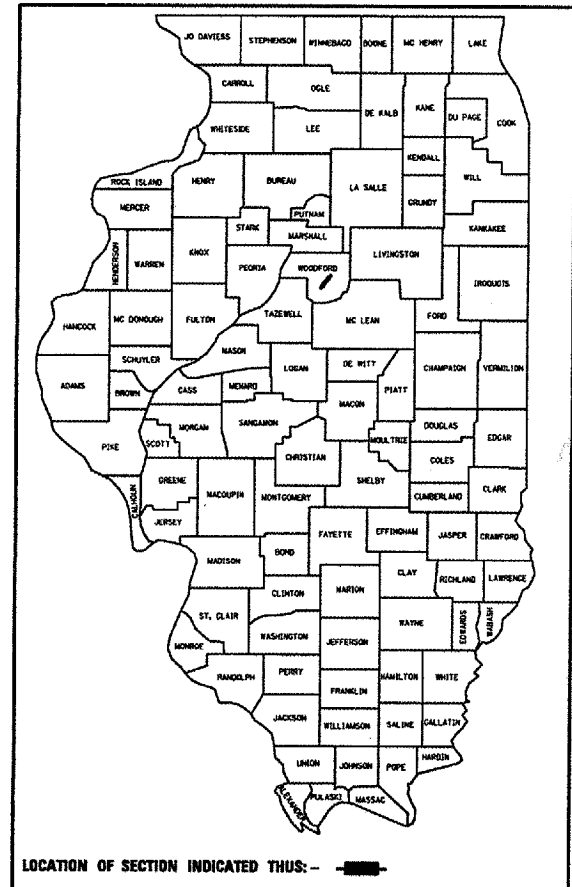
VILLAGE OF WASHBURN, ILLINOIS
 WOODFORD COUNTY, ILLINOIS
**PLANS FOR
 WALNUT STREET
 OVER SNAG CREEK**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WOODFORD	24	1

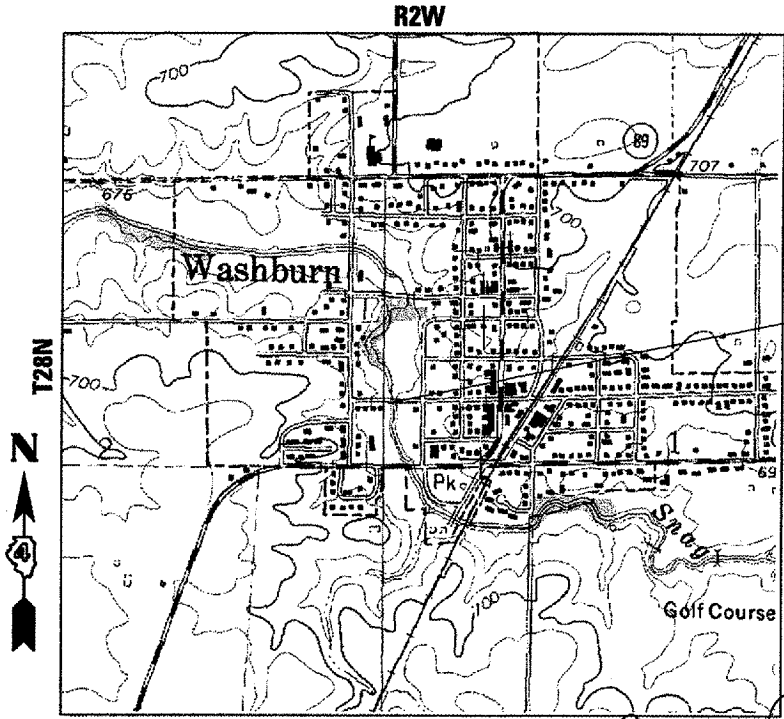
* 05-00018-00-BR
 CONTRACT #89414

- INDEX OF SHEETS**
- 1 COVER SHEET & INDEX OF SHEETS
 - 2 SUMMARY OF QUANTITIES, TYPICAL SECTIONS & GENERAL NOTES
 - 3 SCHEDULE OF QUANTITIES
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 - 5 PLAN AND PROFILE STREET IMPROVEMENTS
 - 6 PLAN AND PROFILE WATER MAIN IMPROVEMENTS
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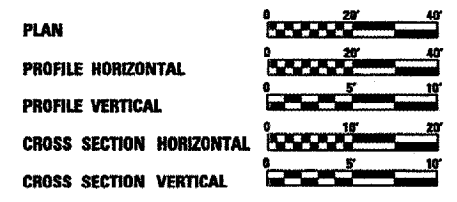
BRRP
SECTION 05-00018-00-BR
EXISTING S.N. 102-7402
PROPOSED S.N. 102-7405
WOODFORD COUNTY
PROJECT NUMBER BROS-0203(022)
C-94-113-06



- STANDARDS**
- 515001-02 NAME PLATE
 - 542401 METAL END SECTION FOR PIPE CULVERTS
 - 701501-03 URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
 - 702001-06 TRAFFIC CONTROL DEVICES
 - BLR21-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
 - BLR22-4 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- SURVEY BOOK NUMBER: 411



THE PROPOSED IMPROVEMENTS CONSISTS OF REMOVAL OF EXISTING S.N. 102-7402 AND REPLACEMENT WITH PPC DECK BEAM STRUCTURE WITH OPEN INTEGRAL ABUTMENTS CARRYING WALNUT STREET OVER SNAG CREEK
 BEGIN IMPROVEMENTS STA. 11+50
 END IMPROVEMENTS STA. 16+62



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123

TOTAL LENGTH OF IMPROVEMENT = 512 FEET = .097 MILES
 NET LENGTH OF IMPROVEMENT = 512 FEET = .097 MILES
 DESIGN CLASSIFICATION - LOCAL ROAD
 CURRENT ADT (2005): < 250
 DESIGN ADT (2025): < 250
 DESIGN SPEED - 30 MPH
 DESIGN VARIANCES - NONE

James F. Schmuide
 JAMES F. SCHMUDE
 LICENSED PROFESSIONAL ENGINEER
 ILLINOIS NO. 36931 EXPIRES 11-30-07
 DATE 5-16-07

Judd R. Giffin
 JUDD R. GIFFIN
 LICENSED PROFESSIONAL ENGINEER
 ILLINOIS NO. 59458 EXPIRES 11-30-07
 DATE 5/16/07

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

Dennis Bachman
 WOODFORD COUNTY ENGINEER
 5/16/07

Donald Mays
 MAYOR, VILLAGE OF WASHBURN
 20

SUBMITTED: 20

PASSED: *John Taballe*
 DISTRICT ENGINEER OF LOCAL ROADS AND STREETS
 20

Releasing For Bid Based on Limited Review
John
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
 20

PREPARED BY: Foth & Van Dyke PEORIA, IL.

FVD PROJECT NO. DA5792.09

SUMMARY OF QUANTITIES

ITEM	QUANTITIES	UNITS	TOTAL
20100110	TREE REMOVAL 6-15 UNITS	UNIT	50
20200100	EARTH EXCAVATION	CU.YD.	84
20400400	BORROW EXCAVATION FURNISHED BY THE CONTRACTOR	CU.YD.	1680
21001000	TRENCH BACKFILL	TON	56
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO.YD.	1100
25000100	SEEDING, CLASS 1	ACRE	0.75
25000350	SEEDING CLASS 7	ACRE	0.75
28000500	INLET AND PIPE PROTECTION	EACH	6
28000900	FENCE (EROSION CONTROL)	FOOT	837
28100809	STONE DUMPED RIPRAP, CLASS A5	TON	469
28200200	FILTER FABRIC	SO.YD.	374
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	668
40300100	BITUMINOUS MATERIAL (PRIME COAT)	GAL	455
40300300	BITUMINOUS MATERIAL (COVER AND SEAL COAT)	GAL	1051
40300500	COVER COAT AGGREGATE	TON	32
40300600	SEAL COAT AGGREGATE	TON	16
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO.FT.	1388
44000600	SIDEWALK REMOVAL	SO.FT.	165
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105200	REMOVE EXISTING CULVERTS	EACH	3
50200100	STRUCTURE EXCAVATION	CU.YD.	113
50300225	CONCRETE STRUCTURES	CU.YD.	35
50300300	PROTECTIVE COAT	SO.YD.	93
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SO.FT.	358
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SO.FT.	1432
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3352
50900205	STEEL RAILING, TYPE S1	FOOT	120
50900805	PEDESTRIAN RAIL	FOOT	117
51201600	FURNISHING STEEL PILES HP12X53	FOOT	522
51202305	DRIVING STEEL PILES	FOOT	522
51203600	TEST PILE STEEL HP12X53	EACH	1
51500100	NAME PLATES	EACH	1
542C0220	PIPE CULVERTS, CLASS C, TYPE 1, 15"	FOOT	140
542C0211	PIPE CULVERTS, CLASS C, TYPE 1, 6"	FOOT	20
542C1060	PIPE CULVERTS, CLASS C, TYPE 2, 15"	FOOT	220
54213450	END SECTIONS 15"	EACH	7
56103800	DUCTILE IRON WATER MAIN, MECHANICAL JOINT 6"	FOOT	193
56201400	CORPORATION STOPS 1"	EACH	2
67100100	MOBILIZATION	L.SUM	1
70103700	TRAFFIC CONTROL COMPLETE	L.SUM	1
A2C03063	TREE, FAXINUS PENNSYLVANICA (GREEN ASH), CONTAINER GROWN, 3-GALLON	EACH	15
XX002982	GATE VALVE 6"	EACH	2
XX003531	WATER SERVICE CONNECTION 1"	EACH	2
XX003518	CONNECTIONS TO EXISTING WATER MAIN (NON PRESSURE) - 4"	EACH	2
XX005777	DUCTILE IRON WATER MAIN FITTINGS 45 BEND 6"	EACH	4
X0323181	DUCTILE IRON WATER MAIN REDUCER 6"x4"	EACH	2

* SEE SPECIAL PROVISIONS

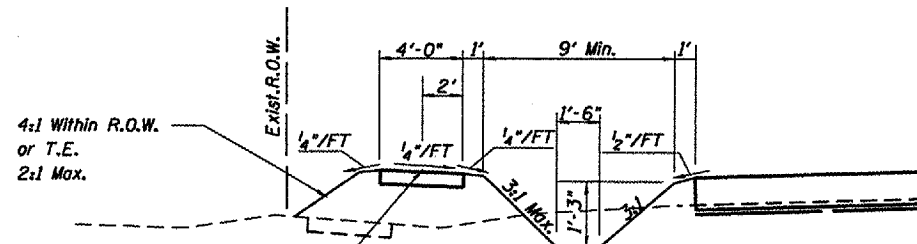
SPECIALTY ITEMS

TIE POINTS

ID	DESCRIPTION	N	E	ANGLE	STATIONING
1	CENTER LINE ROAD	N 5000.00	E 5000.00	102.38	STA. 16+95.80, 0' RT. PK NAIL SET
1000	CENTER LINE ROAD	N 5001.45	E 4305.60	102.38	STA. 10+01.40, 1.45' LT. PK NAIL SET

BENCH MARK
FIRE HYDRANT NW CORNER
WALNUT & WASHINGTON ST.
NORTH CAP BOLT
ELEV. 103.19

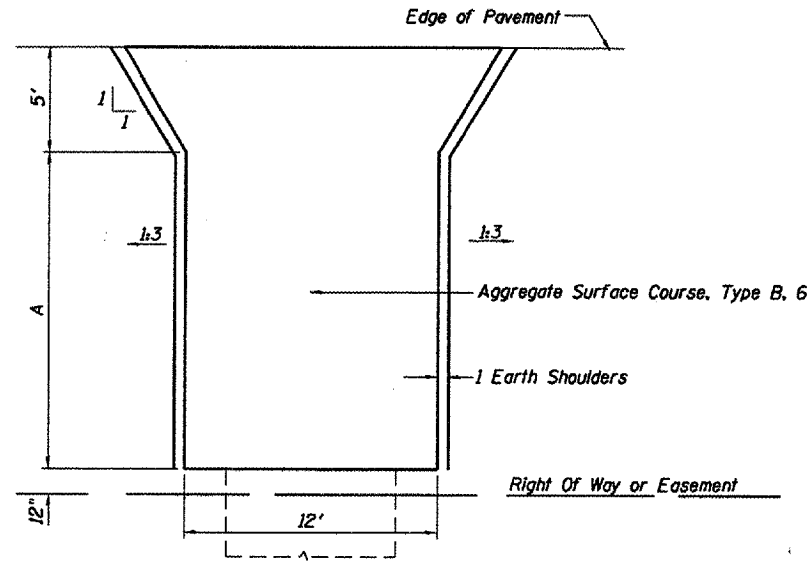
CHISELED SQUARE NE
WINGWALL OF WALNUT
ST. BRIDGE AT
WALNUT & WASHINGTON ST
ELEV. 102.92



Proposed PCC Sidewalk, 4"
Sta. 12+58, 25.6' Lt. to
Sta. 13+60.28, 14.5' Lt.
Sidewalk PGL =
Roadway PGL less 0.64'

SPECIAL DITCH SECTION

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



TYPICAL ENTRANCE DETAIL

Entrance - Sta. 11+93 Rt., A = 15'
Entrance - Sta. 12+96 Rt., A = 55'
Entrance - Sta. 13+25 Lt. (No Aggregate Surface Course)
Entrance - Sta. 16+05 Rt., A = 15'

PROJECT NO.	SECTION	COUNTY	SHEETS	TOTAL
		WOODFORD	24	2

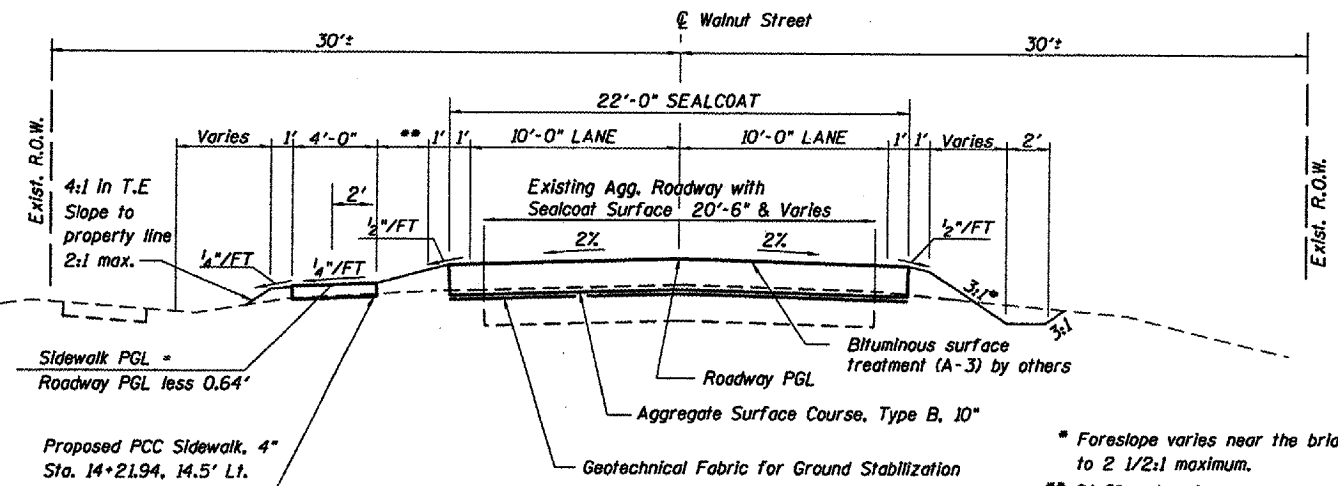
* 05-00018-00-BR
CONTRACT #89414

NOTES:

- ALL ROAD AND BRIDGE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRICAL POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATIONS FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
- ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING THE CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.
- AT LOCATIONS WHERE CLEARING IS INDICATED ON THE PLANS BEYOND THE LIMITS OF THE PROPOSED EXCAVATION OR EMBANKMENT, THE CONTRACTOR SHALL RESTORE THE DISTURBED EARTH BY BLADING AND SHAPING TO BLEND WITH THE ADJACENT GROUND. THE CLEARING WILL NOT BE PAID FOR SEPARATELY BUT BE INCLUDED IN THE COST OF EARTH EXCAVATION. RESEEDING OR RESODDING WILL BE AS PROVIDED IN THE PLANS.
- EARTH EXCAVATION AND BACKFILL FOR PROPOSED DRIVEWAY SURFACES SHALL BE INCLUDED IN THE UNIT COST OF THE VARIOUS ITEMS.
- REMOVAL OF ROADWAY SURFACE SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION.

COMMITMENTS:

- CONTRACTOR SHALL SALVAGE OR REPLACE ANY TREES OR BUSHES DISTURBED BY CONSTRUCTION. NOTE DOES NOT APPLY TO TREES ALONG CREEK FROM STA. 13+50 TO STA. 14+50.



Proposed PCC Sidewalk, 4"
Sta. 14+21.94, 14.5' Lt.
to Sta. 16+12, 14.5' Lt.
Transition Sidewalk
Sta. 16+12 to 16+62

PROPOSED TYPICAL SECTION

Sta. 12+00 to Sta. 13+60.28
Sta. 14+21.94 to Sta. 16+12
Transition pavement width
Sta. 11+50 to 12+00
Sta. 16+12 to 16+62

* Foreslope varies near the bridge to 2 1/2:1 maximum.
** 2'-6" and varies

**SUMMARY OF QUANTITIES
TYPICAL SECTIONS & GENERAL NOTES
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS
		WOODFORD	24	3
FED. ROAD DIST. NO. 7		FED. AID PROJECT		
* 05-00018-00-BR CONTRACT #89414				

TREE REMOVAL 6-15 UNITS

LOCATION	UNITS
STA. 13+60 TO STA. 14+22 (50'10")	50
TOTAL	50

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

LOCATION	SQ.YD.
STA. 11+50 TO STA. 13+60	1100
STA. 14+22 TO STA. 16+62	
TOTAL	1100

AGGREGATE SURFACE COURSE, TYPE B

LOCATION	TON
STA. 11+50 TO STA. 16+62	668
TOTAL	668

PCC SIDEWALK, 4"

LOCATION	SQ.FT.
STA. 12+58 TO STA. 13+50	368
STA. 13+50 TO STA. 13+60	50
STA. 14+22 TO STA. 14+32	50
STA. 14+32 TO STA. 15+22	360
STA. 15+22 TO STA. 16+62	560
TOTAL	1388

D.I. WATER MAIN, M.J. 6"

LOCATION	FOOT
STA. 13+00, 8' LT. TO STA. 13+32, 18.5' RT.	37
STA. 13+32, 18.5' RT. TO STA. 14+47, 18.5' RT.	115
STA. 14+47, 18.5' RT. TO STA. 14+73, 7.5' LT.	36
TOTAL	188

CORPORATION STOPS

LOCATION	FOOT
STA. 13+15 LT.	1
STA. 13+20 RT.	1
TOTAL	2

GATE VALVE, 6"

LOCATION	FOOT
STA. 13+00 LT.	1
STA. 14+73 LT.	1
TOTAL	2

WATER SERVICE CONNECTION, 1"

LOCATION	FOOT
STA. 13+15 LT.	1
STA. 13+20 RT.	1
TOTAL	2

D.I. WATER MAIN REDUCER, 6"x4"

LOCATION	FOOT
STA. 13+00 LT.	1
STA. 14+73 LT.	1
TOTAL	2

D.I. WATER MAIN FITTINGS, 45 DEGREE, 6"

LOCATION	FOOT
STA. 13+00, 8' LT.	1
STA. 13+32, 18.5' RT.	1
STA. 13+57, 18.5' RT.	1
STA. 14+20, 18.5' RT.	1
STA. 14+47, 18.5' RT.	1
STA. 14+73, 7.5' LT.	1
TOTAL	6

CONNECT TO EXISTING WATER MAIN NON PRESSURE 4"

LOCATION	EACH
STA. 13+00 LT.	1
STA. 14+73 LT.	1
TOTAL	2

SIDEWALK REMOVAL

LOCATION	SQ.YD.
STA. 12+58 TO STA. 13+74 LT.	52
STA. 14+08 TO STA. 16+62 LT.	113
TOTAL	165

PIPE CULVERTS, CL C T1 6"

LOCATION	FOOT
STA. 14+07, 18.5' RT.	10
STA. 14+04, 17.7' RT.	10
TOTAL	20

PIPE CULVERTS, CL C T1 15"

LOCATION	FOOT
STA. 11+79 TO STA. 12+09 RT.	30
STA. 12+92 TO STA. 13+61.5 LT.	80
STA. 15+90 TO STA. 16+20 RT.	30
TOTAL	140

PIPE CULVERTS, CL C T2 15"

LOCATION	FOOT
STA. 12+71 TO STA. 13+71 RT.	100
STA. 14+10 TO STA. 15+30 RT.	120
TOTAL	220

END SECTIONS, 15"

LOCATION	EACH
STA. 11+79 RT.	1
STA. 12+09 RT.	1
STA. 12+71 RT.	1
STA. 12+82 RT.	1
STA. 15+30 RT.	1
STA. 15+90 RT.	1
STA. 16+20 RT.	1
TOTAL	7

EARTH WORK SCHEDULE

LOCATION	LENGTH FOOT	EARTH EX. VOLUME CU.YD.	EARTH EX. ADJUSTED FOR SHRINKAGE CU.YD.	EMBANKMENT VOLUME CU.YD.	EARTH WORK BALANCE WASTE(+) OR SHORTAGE (-) FURNISH EX.
STA. 11+50 TO STA. 12+00	50	37	28	17	11
STA. 12+00 TO STA. 12+50	50	26	20	69	-49
STA. 12+50 TO STA. 13+00	50	3	2	224	-222
STA. 13+00 TO STA. 13+50	50	0	0	537	-537
STA. 13+50 TO STA. 13+60	10	0	0	84	-84
STA. 14+22 TO STA. 14+50	28	0	0	220	-220
STA. 14+50 TO STA. 15+00	50	0	0	335	-335
STA. 15+00 TO STA. 15+50	50	0	0	192	-192
STA. 15+50 TO STA. 16+00	50	0	0	61	-61
STA. 16+00 TO STA. 16+62	62	18	14	9	-9
TOTAL		84	64	1744	-1680

NOTE:

A SHRINKAGE FACTOR OF 25% WAS USED TO CALCULATE QUANTITIES OF WASTE MATERIAL

REMOVE EXISTING CULVERTS

LOCATION	EACH
STA. 11+93.	1
STA. 12+96	1
STA. 16+05	1
TOTAL	3

TRAFFIC CONTROL COMPLETE

LOCATION	L. SUM
STA. 11+50 TO STA. 16+62	1
TOTAL	1

TREE, FAXINUS PENNSYLVANICA (GREEN ASH)

LOCATION	EACH
STA. 11+50 TO STA. 16+62	15
TOTAL	15

TRENCH BACKFILL

LOCATION	TON
STA. 12+95, 8' LT. TO STA. 13+25, 11' RT.	30
STA. 14+53, 11' RT. TO STA. 14+78, 8' LT.	26
TOTAL	56

SEAL COAT SCHEDULE

LOCATION	PRIME GAL	COVER & SEAL GAL	COVER AGGREGATE TON	SEAL AGGREGATE TON
STA. 11+50 TO STA. 13+60	205	431	13	7
STA. 13+60 TO STA. 14+22	15	127	4	2
STA. 14+22 TO STA. 16+62	235	493	15	7
TOTAL	455	1051	32	16

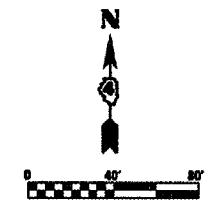
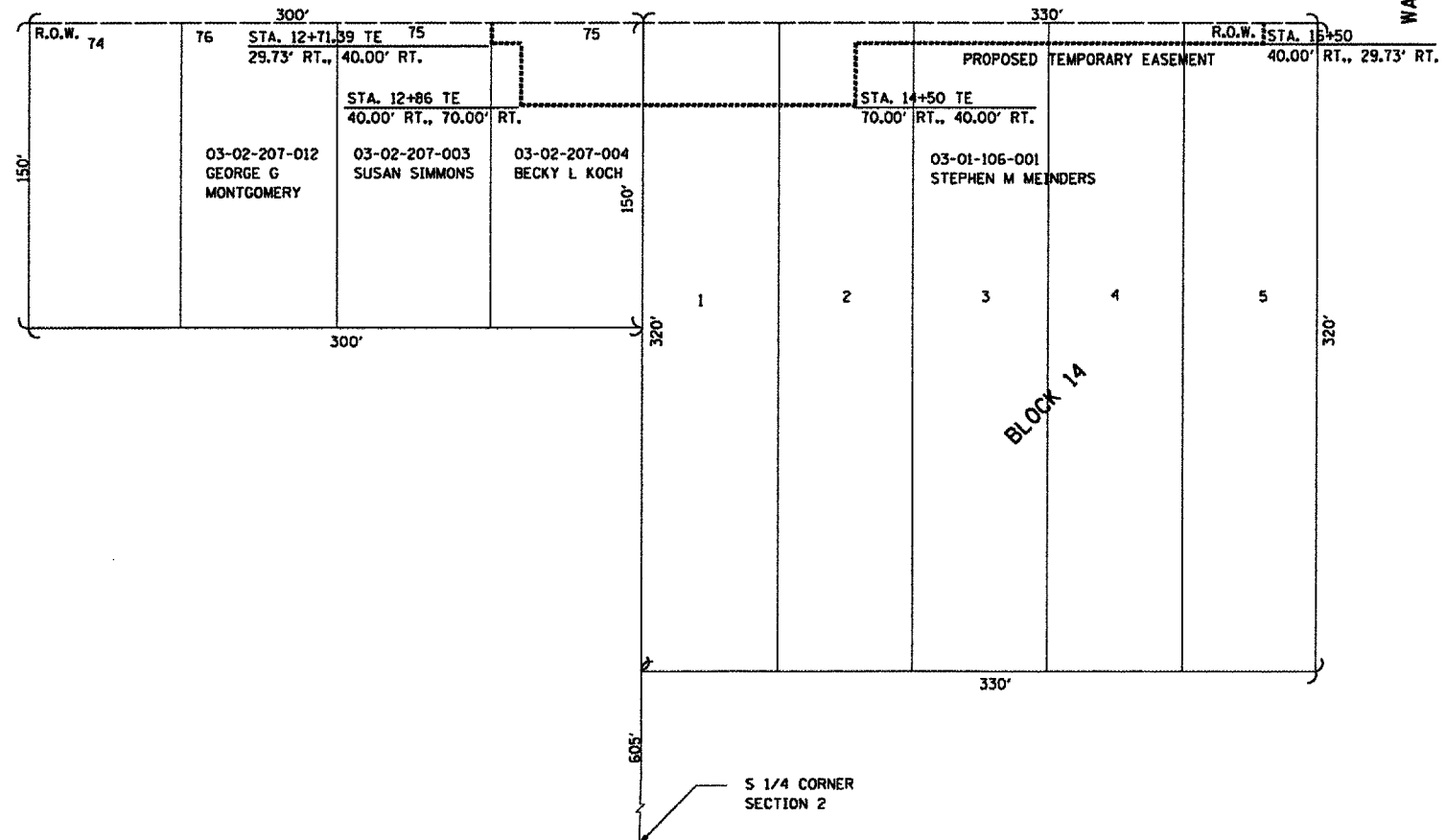
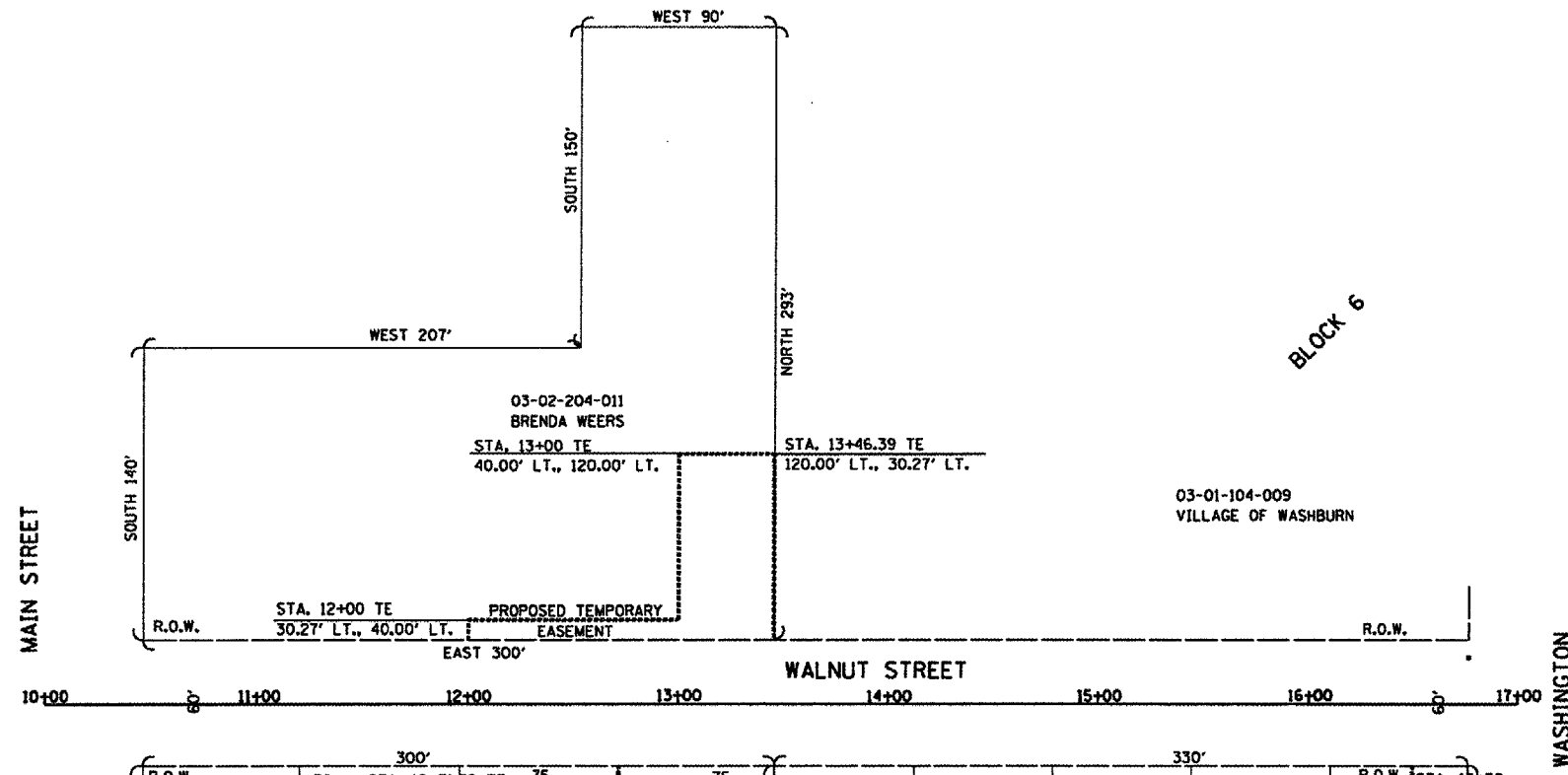
APPLICATION RATES	
PRIME (MC 30) - GRAVEL	0.4 GAL / S.Y.
PRIME (MC 30) - CONCRETE	0.1 GAL / S.Y.
COVER (PG 46-28)	2 @ 0.28 GAL / S.Y.
SEAL (PG 46-28)	1 @ 0.28 GAL / S.Y.
COVER AGGREGATE (CA 16)	2 @ 25 LBS / S.Y.
SEAL AGGREGATE (CA 16)	1 @ 25 LBS / S.Y.

SCHEDULE OF QUANTITIES
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS
*		WOODFORD	23	4

* 05-00018-00-BR
CONTRACT #89414



RIGHT OF WAY PLANS
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

PLT DATE = 6/19/2007
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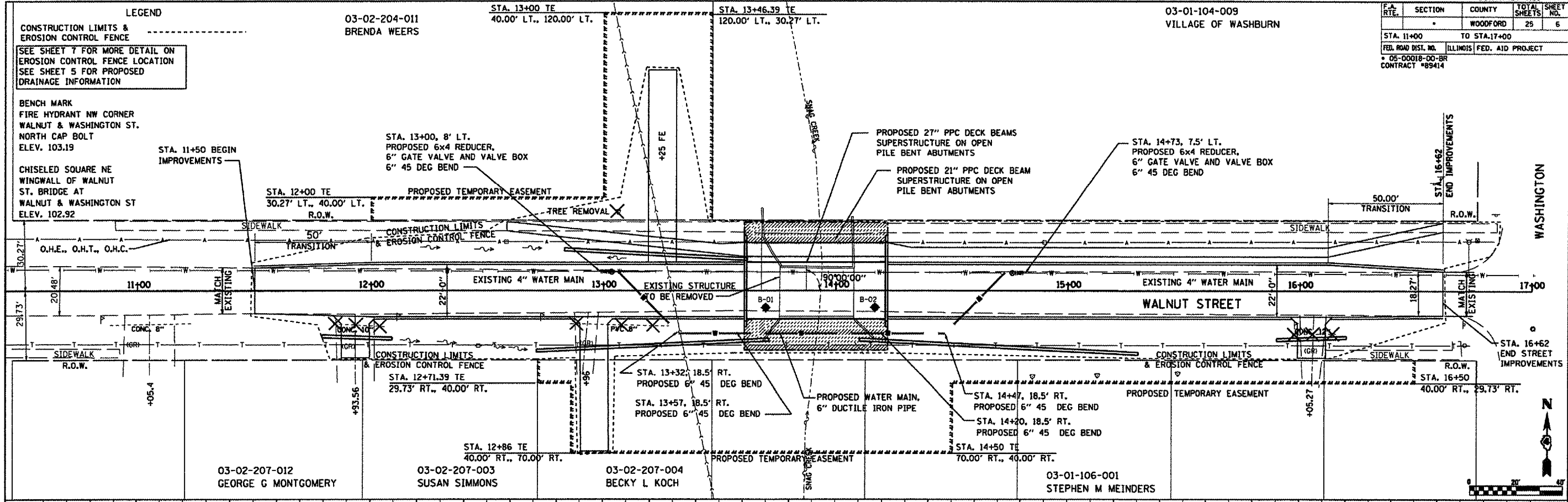
CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WOODFORD	25	6
STA. 11+00 TO STA. 17+00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* 05-00018-00-BR				
CONTRACT #89414				

03-01-104-009
VILLAGE OF WASHBURN

03-02-204-011
BRENDA WEERS

LEGEND
 CONSTRUCTION LIMITS & EROSION CONTROL FENCE
 SEE SHEET 7 FOR MORE DETAIL ON EROSION CONTROL FENCE LOCATION
 SEE SHEET 5 FOR PROPOSED DRAINAGE INFORMATION

BENCH MARK
 FIRE HYDRANT NW CORNER WALNUT & WASHINGTON ST. NORTH CAP BOLT ELEV. 103.19
 CHISELED SQUARE NE WINGWALL OF WALNUT ST. BRIDGE AT WALNUT & WASHINGTON ST ELEV. 102.92

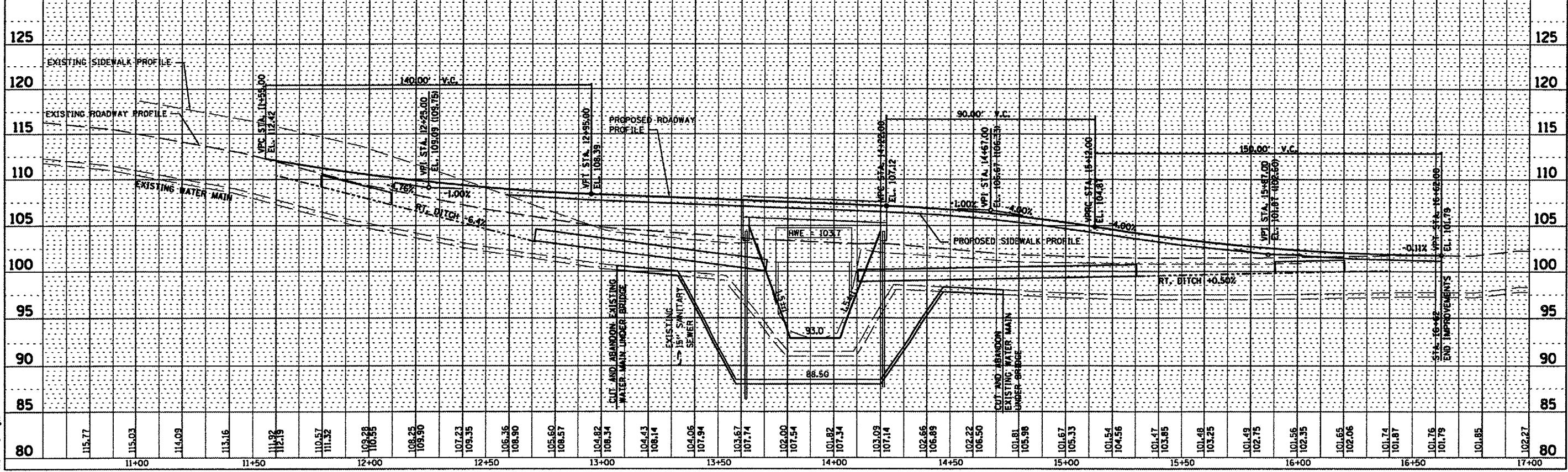


03-02-207-012
GEORGE G MONTGOMERY

03-02-207-003
SUSAN SIMMONS

03-02-207-004
BECKY L KOCH

03-01-106-001
STEPHEN M MEINDERS



PLAN AND PROFILE WATER MAIN IMPROVEMENTS

DATE	BY

DATE	BY

PLOT DATE = 6/19/2007
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 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = J...

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS
	*	WOODFORD	24	7
FED. ROAD DIST. NO. 7				
ILLINOIS				
FED. AID PROJECT				

* 05-00018-00-BR
CONTRACT #89414

THRUST BLOCK DESIGN

DESIGN SHALL BE FOR 200 PSI PRESSURE UNLESS MODIFIED BY THE SPECIFICATIONS (DESIGN PER A.W.W.A. PIPE DESIGN AND INSTALLATION MANUAL OF PRACTICE NO. M23).

TABLE A

THRUST DEVELOPED PER 100 PSI PRESSURE, LB FORCE (N)

NOMINAL PIPE SIZE IN. (MM)	FITTING 90 DEG BEND		FITTING 45 DEG BEND		VALVES, TEES & DEAD ENDS	
	POUNDS	NEWTONS	POUNDS	NEWTONS	POUNDS	NEWTONS
4" (100)	1,800	(8,007)	1,100	(4,893)	1,300	(5,783)
6" (150)	4,000	(17,793)	2,300	(10,231)	2,900	(12,900)
8" (200)	7,200	(32,027)	4,100	(18,238)	5,100	(22,686)
10" (250)	11,200	(49,820)	6,300	(28,024)	7,900	(35,141)
12" (300)	16,000	(71,172)	9,100	(40,479)	11,300	(50,265)
14" (350)	21,800	(96,966)	11,800	(52,486)	15,400	(68,499)

PIPES OVER 14" SHALL BE BASED ON CALCULATED THRUST.

TABLE B

ESTIMATED BEARING LOAD

SOIL TYPE	LB/SQ FT	N/M ²
MUCK, PEAT, ETC.	0	0
SOFT CLAY	500	23,940
SAND	1,000	47,881
SAND AND GRAVEL	1,500	71,821
SAND AND GRAVEL W/CLAY	2,000	95,761
SAND AND GRAVEL CEMENTED W/CLAY	4,000	191,523
HARD PAN	5,000	239,403

ALLOWABLE BEARING LOAD FOR VARIOUS TYPES OF SOIL. THE BEARING LOADS ARE ESTIMATED FOR HORIZONTAL THRUSTS WHEN DEPTH OF SATURATED SOIL COVER EXCEEDS 2 FT.

EXAMPLE

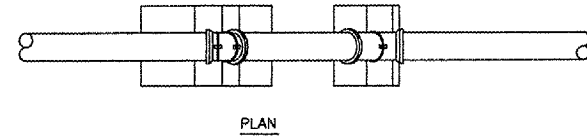
DETERMINE THE DESIGN OF A THRUST BLOCK REQUIRED AT AN 8" 90 DEGREE ELBOW. MAXIMUM TEST PRESSURE EQUALS 200 PSI; SOIL TYPE IS SAND.

(1) CALCULATE THRUST: FROM TABLE A, THRUST ON 8" 90 DEGREE ELBOW EQUALS 7200 LB PER 100 PSI OPERATING PRESSURE.

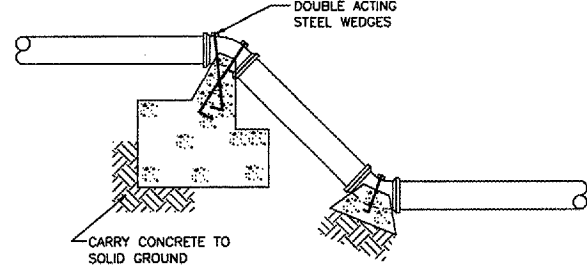
TOTAL THRUST = 2(7200) = 14,400 LBS

(2) CALCULATE THRUST BLOCK SIZE: FROM TABLE B, SAFE BEARING LOAD FOR SAND EQUALS 1000 LB/SQ FT.

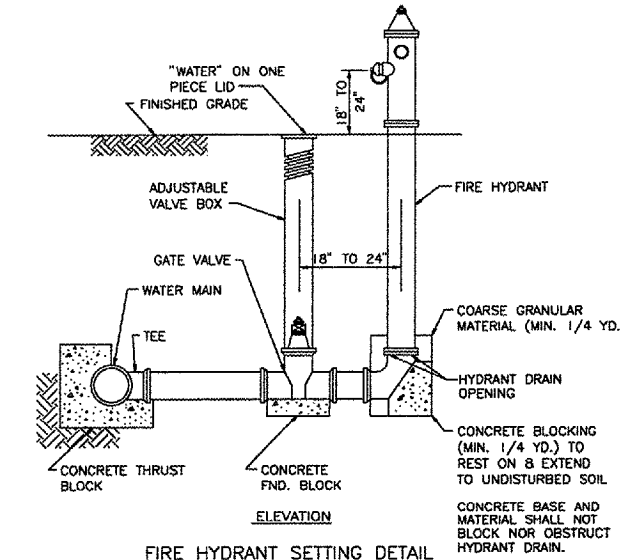
TOTAL THRUST SUPPORT AREA = $\frac{14,400 \text{ LBS}}{1,000} = 14.4 \text{ SQ FT.}$



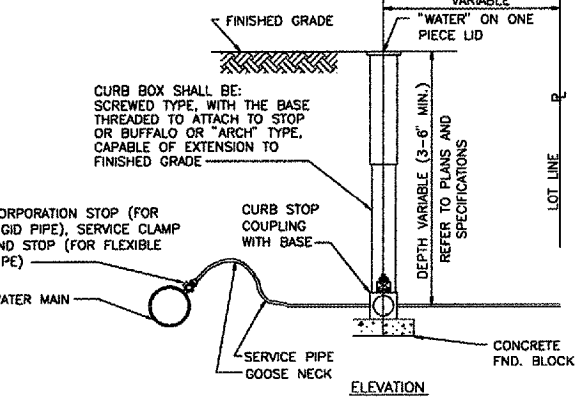
NOTE:
NO. 6 DEFORMED BARS TO BE EMBEDDED IN CONCRETE. EXPOSED PORTIONS TO BE PAINTED WITH 2 COATS OF APPROVED BITUMINOUS PAINT.



THRUST BLOCKS FOR VERTICAL 1/8 & 1/16 BENDS

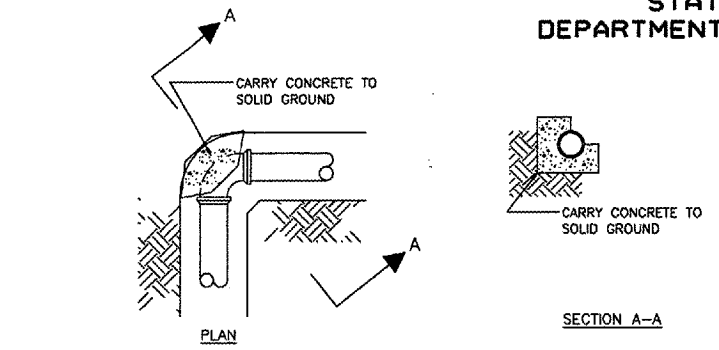


FIRE HYDRANT SETTING DETAIL

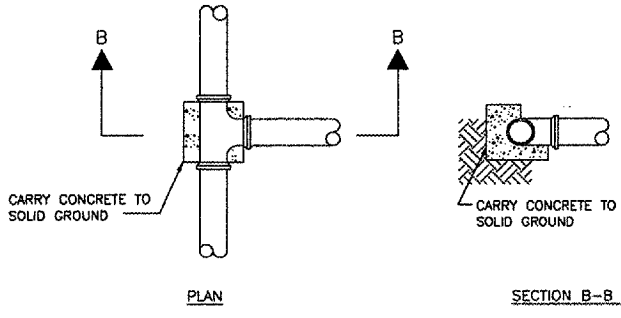


SERVICE DETAIL

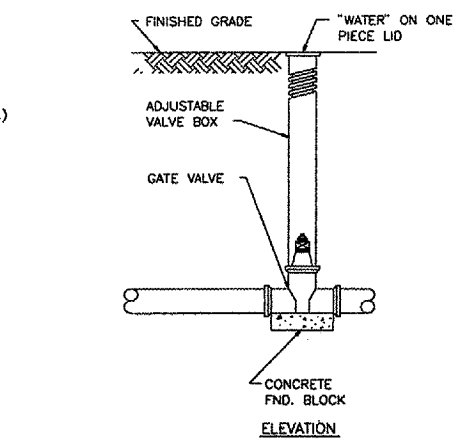
DESIGNED	200
CHECKED	
DRAWN	
CHECKED	



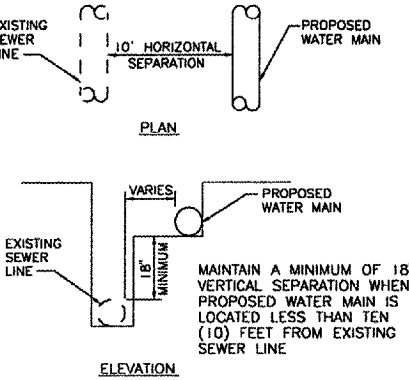
THRUST BLOCK FOR HORIZONTAL BENDS



THRUST BLOCK FOR TEES



VALVE & VALVE BOX SETTING DETAIL

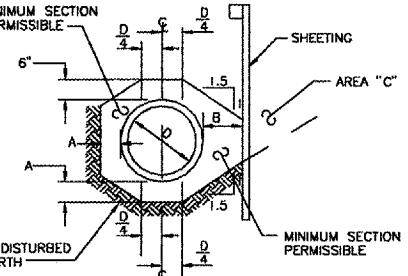


WATER AND SEWER SEPARATION

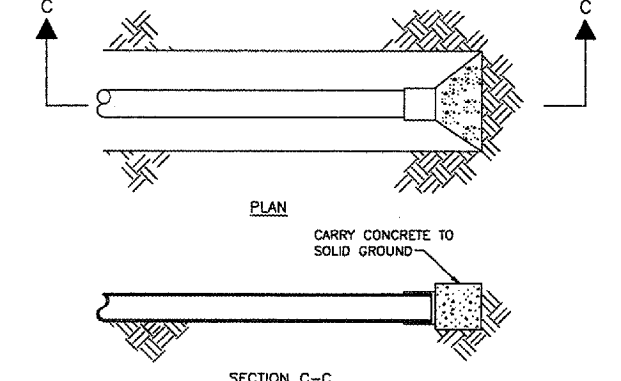
MINIMUM DIMENSIONS IN INCHES

PIPE DIA.	DIM. A	DIM. B
8	4	8
10	4	8
12	4	8
15	4	8
18	5	10
21	5	10
24	5	10
27 OR 30	5	10

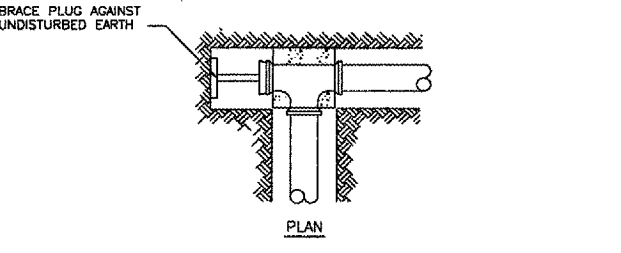
NOTE: WHERE AREA DESIGNATED "C" HAS BEEN EXCAVATED IN AN UNSHEEDED TRENCH IT ALSO SHALL BE FILLED WITH CONCRETE THOUGH IN NO CASE NEED IT BE FILLED INTO MORE THAN A 12" DISTANCE FROM THE OUTSIDE FACE OF THE PIPE MEASURED AT THE LEVEL OF THE CENTER OF THE PIPE.



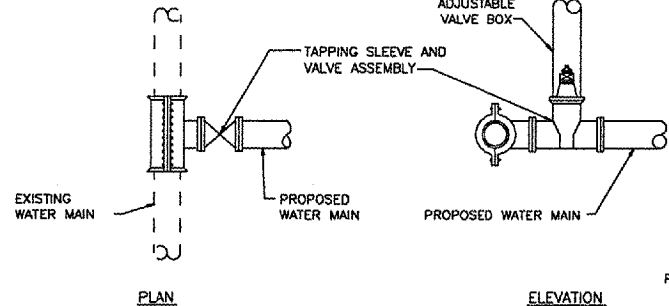
COMPLETE ENCASEMENT DETAIL FOR ALL TYPES AND SIZES OF SEWERS WHEN ORDERED OR SPECIFIED



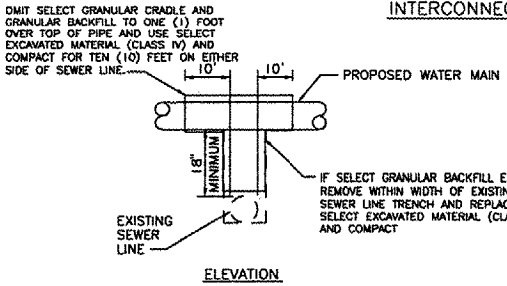
THRUST BLOCK FOR CAP OR PLUG



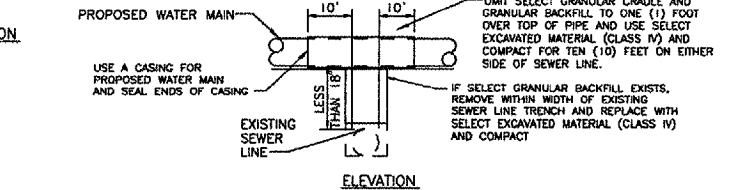
THRUST BLOCK AND PLUGGED TEE



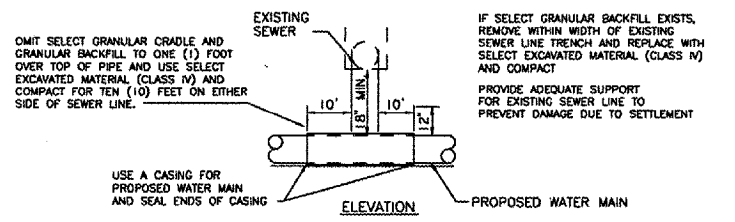
INTERCONNECTION DETAIL



PROPOSED WATER MAIN ABOVE EXISTING SEWER WITH 18" MIN. SEPARATION



PROPOSED WATER MAIN ABOVE EXISTING SEWER WITH LESS THAN 18" MIN. SEPARATION



PROPOSED WATER MAIN BELOW EXISTING SEWER WITH 18" MIN. SEPARATION

GENERAL NOTES:

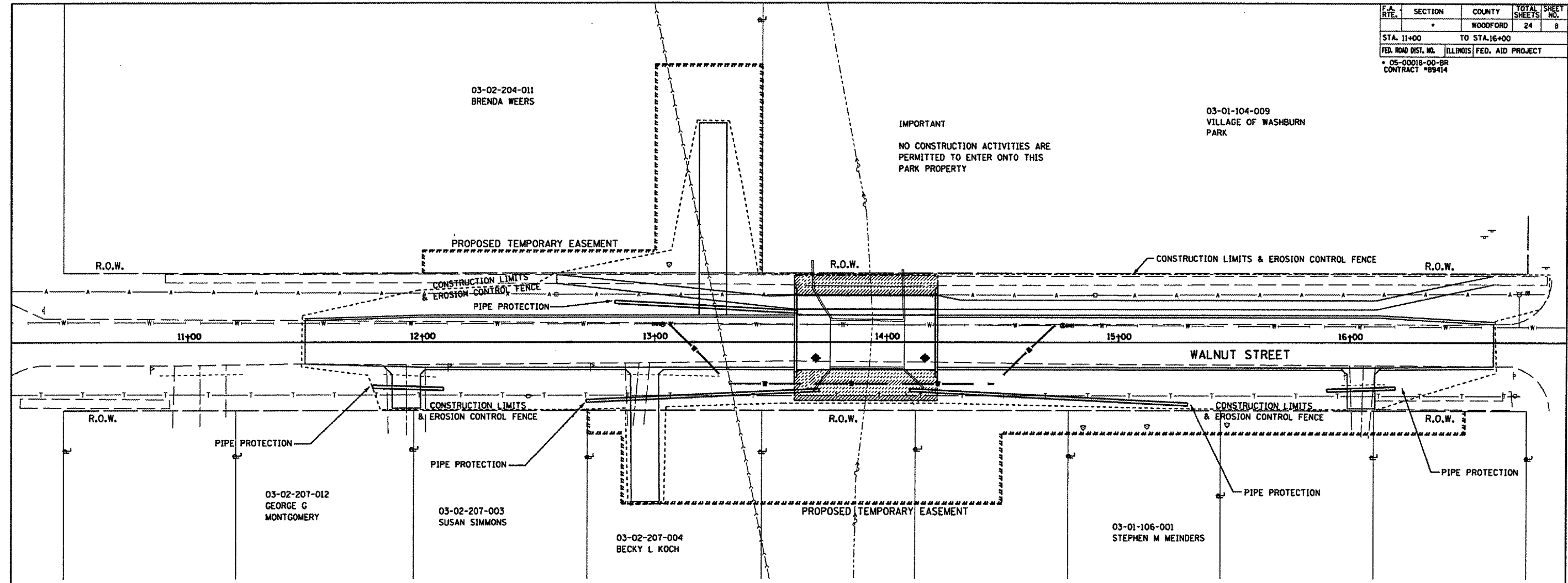
PIPE MATERIAL AND JOINT TYPES WILL BE AS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

TYPICAL DETAILS SHOWN ON THIS SHEET ILLUSTRATE THE ENGINEER'S INTENT FOR INSTALLING WATER MAINS. THEY ARE NOT PRESENTED AS A SOLUTION TO ALL CONSTRUCTION PROBLEMS WHICH MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR MAY ALTER HIS METHOD OF CONSTRUCTION TO SUIT FIELD CONDITIONS, PROVIDED HE SUBMITS HIS PROPOSED ALTERNATE TO THE ENGINEER FOR REVIEW PRIOR TO PERFORMING THE WORK.

ALL THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH. COVER ALL FITTINGS WITH PLASTIC SHEET PRIOR TO POURING CONCRETE.

WATER MAIN DETAILS
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WOODFORD	24	8
STA. 11+00		TO STA. 16+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
05-00018-00-BR		CONTRACT #89414		



SEEDING CLASS 7

LOCATION	ACRE
STA. 11+50 TO STA. 16+62	0.75
TOTAL	0.75

SEEDING CLASS 1

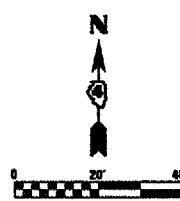
LOCATION	ACRE
STA. 11+50 TO STA. 16+62	0.75
TOTAL	0.75

INLET & PIPE PROTECTION

LOCATION	EACH
STA. 11+79, 19.5' RT.	1
STA. 12+71, 28' RT.	1
STA. 12+83, 16.5' LT.	1
STA. 15+30, 21' RT.	1
STA. 16+20, 20' RT.	1
UNIDENTIFIED LOCATION	1
TOTAL	6

FENCE (EROSION CONTROL)

LOCATION	FEET
STA. 11+50 TO STA. 16+62 LT.	472
STA. 11+50 TO STA. 16+62 RT.	365
TOTAL	837



STORM WATER POLLUTION PREVENTION PLAN
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

PLOT DATE: 6/19/2007
FILE NAME: D:\data\5792-09\DWG\EC-579209.dgn
PLOT SCALE: 1/8" = 1'-0"
USER NAME: jeb

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS
		WOODFORD	24	9
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

* 05-00018-00-BR
CONTRACT #89414

TOTAL BILL OF MATERIAL

Item	Unit	Superstructure	Substructure	Total
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		113	113
Concrete Structures	Cu. Yd.		35	35
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	358		358
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1432		1432
Steel Railing, Type S-1	Foot	120		120
Reinforcement Bars, Epoxy Coated	Pound		3552	3552
Furnishing Steel Piles HP12x53	Foot		522	522
Driving Steel Piles	Foot		522	522
Test Pile Steel HP12x53	Each		1	1
Name Plates	Each	1		1
Protective Coat	Sq. Yd.	93		93
Pedestrian Railing	Foot	117		117
Stone Dumped Riprap, Class A5	Ton		469	469
Filter Fabric	Sq. Yd.		374	374

Note: A3 sealcoat quantity included in roadway plans.

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified).
2. All construction joints shall be bonded.
3. Grouting keyways shall be incidental to the cost of the PPC Deck Beams.
4. The top surface of the beams shall be finished according to Article 504.06 of the Standard Specification. The finished surface shall be free of depressions or high spots with sharp corners.
5. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hrs. prior to grouting the shear keys.
6. The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.
9. The contractor shall drive 1 test pile as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
10. A Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
11. Excavation behind existing abutment walls shall be done before removing the existing superstructure.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

LOADING HS20-44

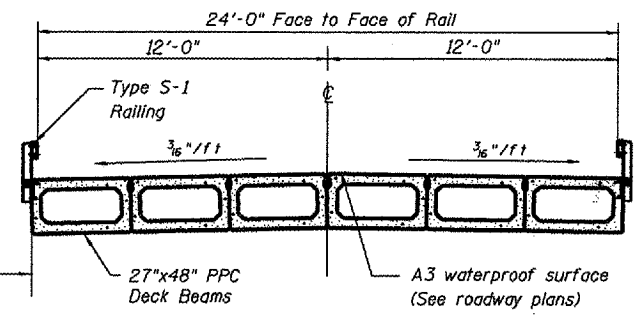
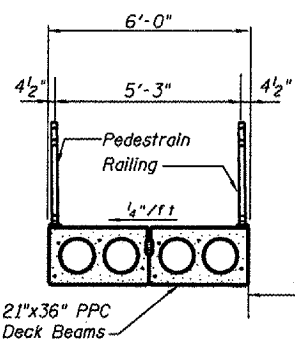
Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.048g
Site Coefficient (S) = 1.2

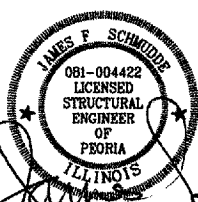
DESIGN STRESS

f'c = 3500 psi (cast-in-place)
fy = 60000 psi (reinforcement)
f'c = 5000 psi (precast)
fs = 24000 psi (non-prestressed reinforcement)
f'ci = 4000 psi (precast)
f'si = 201960 psi (prestressed strands)
f's = 270000 psi (prestressed strands)

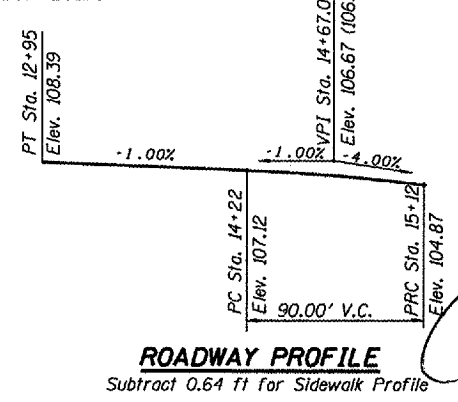


STRUCTURE CROSS SECTION

Looking East



JAMES F. SCHMUDE
LICENSED STRUCTURAL ENGINEER
ILLINOIS NO. 4422 EXPIRES 11-30-08
DATE 5-16-07



ROADWAY PROFILE

Subtract 0.64 ft for Sidewalk Profile

WATERWAY INFORMATION

Drainage Area = 22.7 SQ. MI. Low Grade Elev. = 101.79 @ Sta. 16+62

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E. Exist.	Prop.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	30	2666	240	400	103.7	1.2	0.5	104.9	104.2	
Base	100	3562	240	436	104.3	1.1	0.5	105.4	104.8	
Overtopping										
Max. Calc.	500	4776	240	484	105.1	1.3	1.3	106.4	106.4	

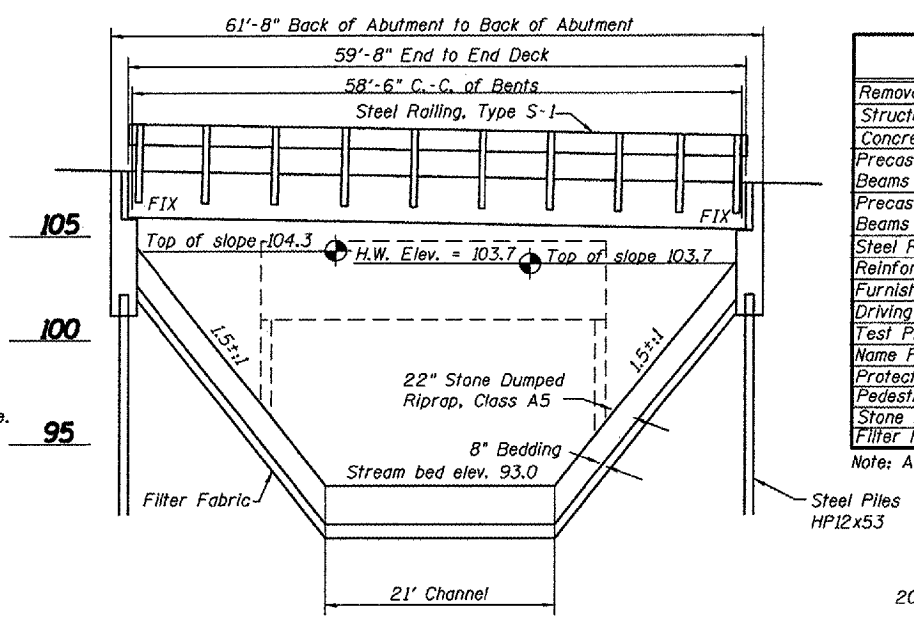
GENERAL PLAN & ELEVATION
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

B.M. - chisled square NE wingwall of walnut St bridge at Walnut & Washington St Elev. 102.92

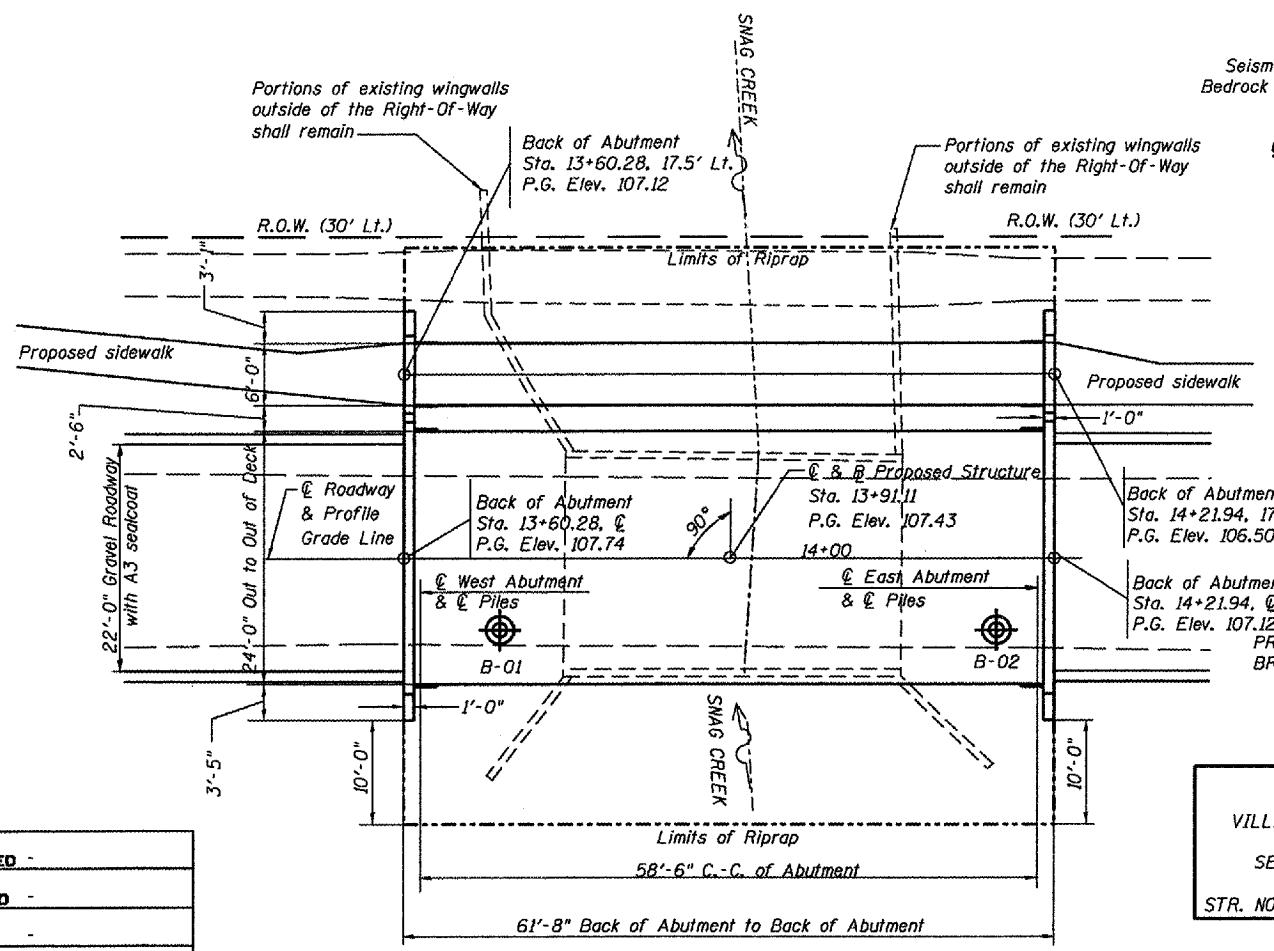
Fire hydrant NW corner Walnut & Washington St. north cap bolt Elev. 103.19

Existing Structure- Sta. 13+91.11 Single span reinforced concrete slab on closed concrete abutments with a separate pedestrian structure. Structures are to be removed completely except portions may be left in place that are one (1) foot or more below final grade. Also, any portion of the existing wingwalls outside of the Right-Of-Way shall remain.

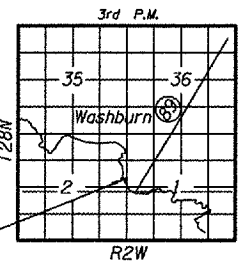
Salvage- No Salvage
Paid for as one removal of existing structure.



ELEVATION



PLAN



LOCATION SKETCH

SNAG CREEK
BUILT 2007 BY
VILLAGE OF WASHBURN AND
WOODFORD COUNTY
SEC. 05-00018-00-BR
STATION 13+91.11
STR. NO. 102-7405 LOADING HS20

NAME PLATE

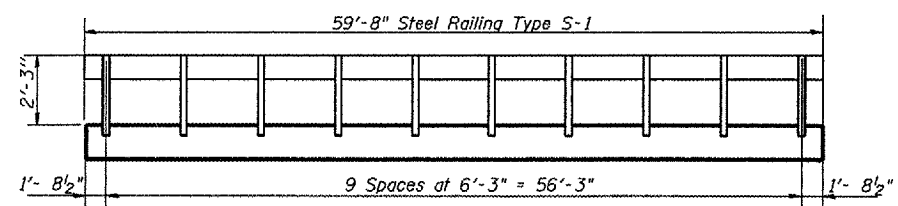
Locate Name Plate at S.W. Corner of Bridge (See Std. 515001)

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

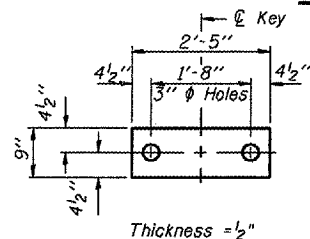
GP-1 (04-04-05)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

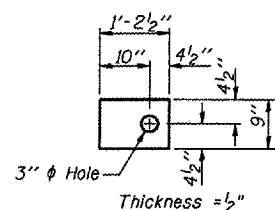
ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
		WOODFORD	24	10
* 05-00018-00-BR CONTRACT #89414				



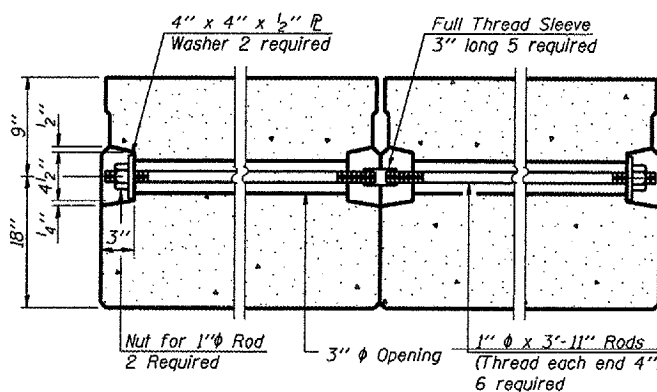
PROFILE OF RAIL



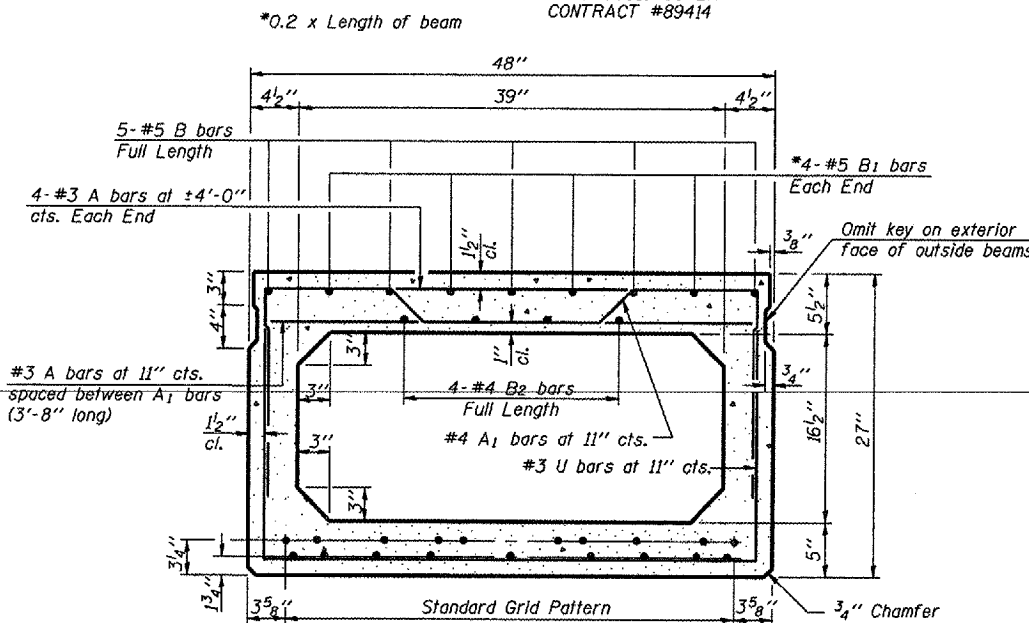
FABRIC BEARING PAD
(Interior)
10 Required



FABRIC BEARING PAD
(Exterior)
4 Required



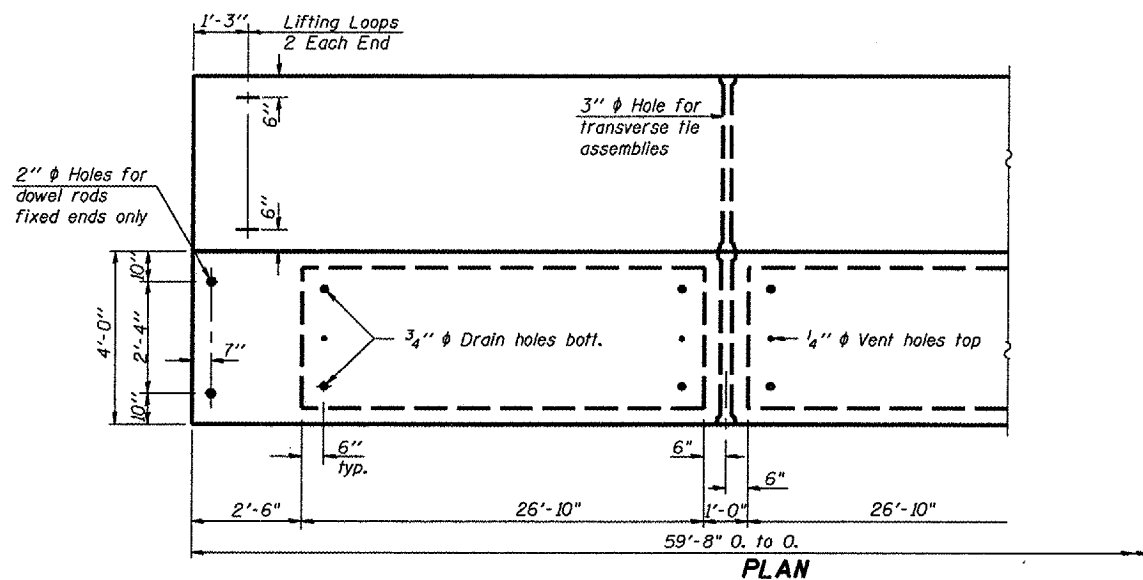
TYPICAL TRANSVERSE TIE ASSEMBLY



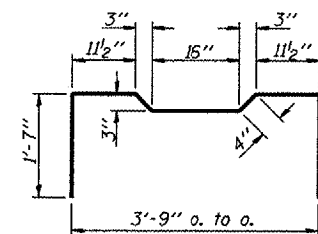
TYPICAL SECTION

1/2" ϕ Strands, Each Strand Stressed to 30,900 Lbs.
9 Strands 1 3/4" up, 10 Strands 3/4" up.

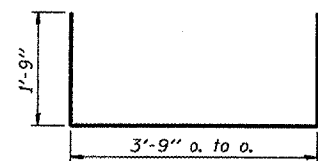
Note:
Place strands symmetrically about \bar{C} of beam.



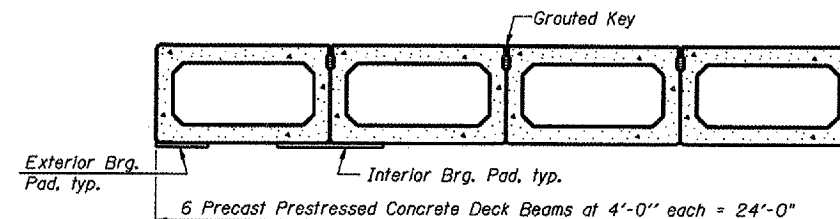
PLAN



BAR A1



BARS U & U1



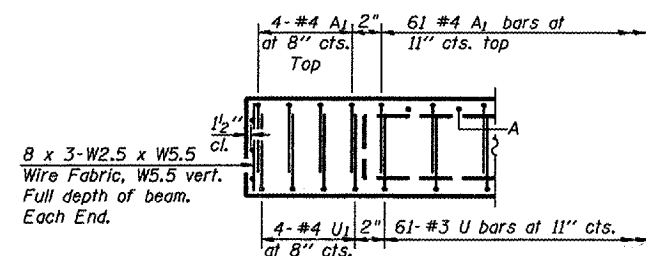
HALF CROSS SECTION

BILL OF MATERIAL - 1 BEAM

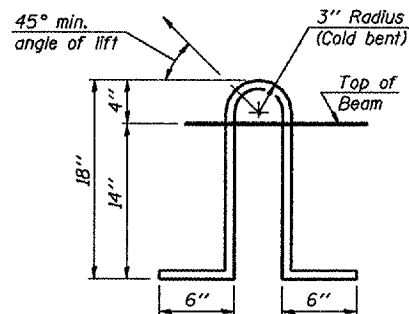
Bar	No.	Size	Length	Shape	
A	68	#3	3'-8"	—	
A1	69	#4	7'-1"	⌋	
B	5	#5	59'-5"	—	
B1	8	#5	12'-0"	—	
B2	4	#4	59'-5"	—	
U	61	#3	7'-3"	⌋	
U1	8	#4	7'-3"	⌋	
Precast Prestressed Conc. Deck Bms. (27" Depth)				Sq. Ft.	1432

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be three (3) 1/2" ϕ 270 ksi strands, as shown.
- The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.
- Non prestressing steel shall conform to AASHTO M-31 or M-322 Grade 60.
- The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
- Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
- Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
- Required Release Strength, f'cl, shall be 4,000 p.s.i.
- Refer to sheet 7 for the type S-1 steel rolling inserts.



END ELEVATION



LIFTING LOOP DETAIL

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

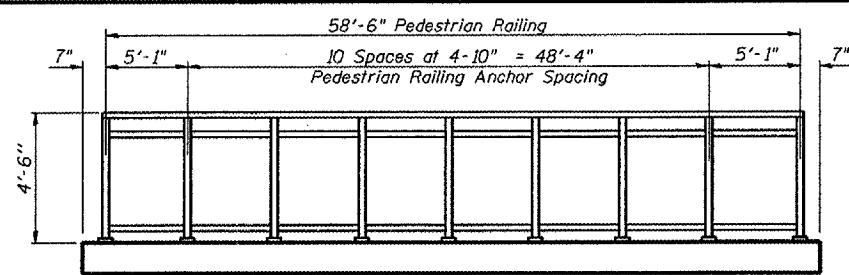
PD-6-S

10-22-04

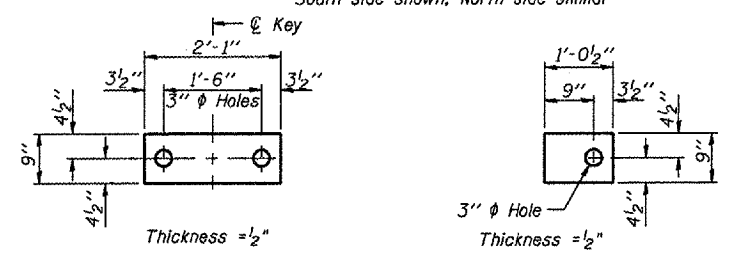
27" BEAM DETAIL
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

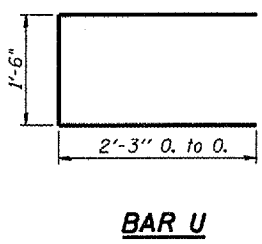
ROUTE NO.	SECTION	COUNTY	SHEET	OF SET	SHEET NO. 3
		WOODFORD	24	11	10 SHEETS
* 05-00018-00-BR CONTRACT #89414					



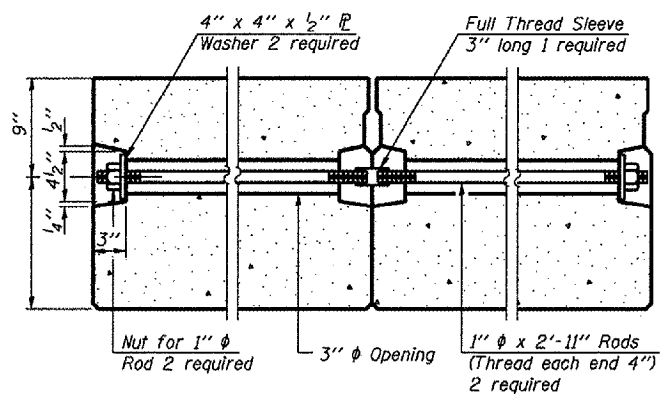
PROFILE AT PEDESTRIAN RAILS
South side shown, North side similar



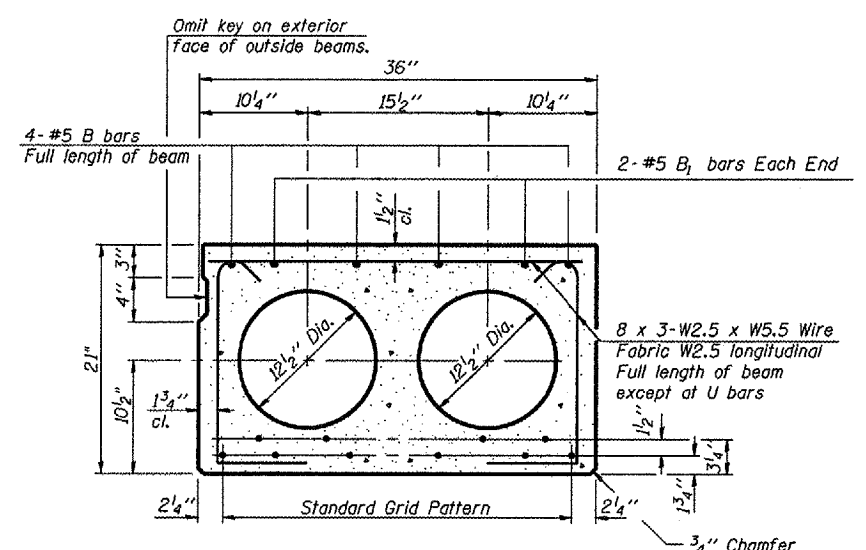
FABRIC BEARING PAD
(Interior) 2 Required
FIXED
(Exterior) 4 Required



BAR U



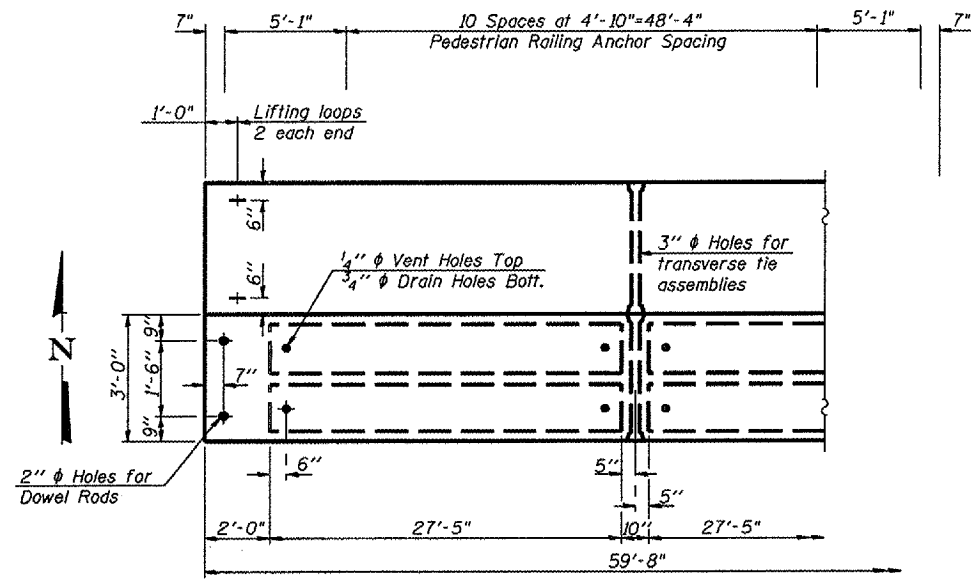
TYPICAL TRANSVERSE TIE ASSEMBLY



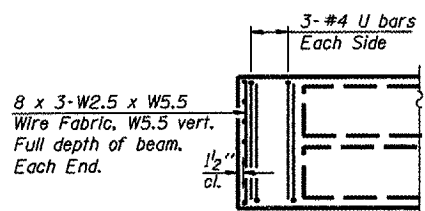
TYPICAL SECTION

1/2" ϕ Strands, Each Strand Stressed to 30,900 Lbs.
6 Strands 1 3/4" up, 4 Strands 3 3/4" up.

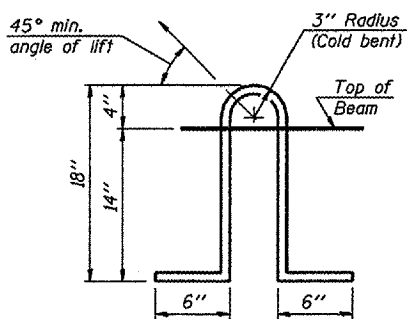
Note:
Place strands symmetrically about ϕ of beam.



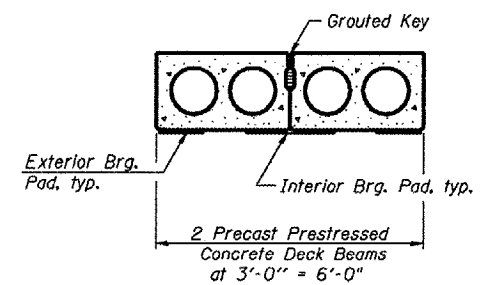
PLAN



END PLAN



LIFTING LOOP DETAIL



**CROSS SECTION
LOOKING EAST**

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be two (2) 1/2" ϕ -270 ksi strands, as shown. The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Non prestressing steel shall conform to AASHTO M-31, M-322 Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4,000 p.s.i. Refer to sheet 8 for the pedestrian railing inserts.

BILL OF MATERIAL - 1 BEAM

Bar	No.	Size	Length	Shape
B	4	#5	59'-5"	—
B1	4	#5	12'-0"	—
U	12	#4	6'-0"	—
Precast Prestressed Conc. Deck Bms. (21" Depth)		Sq. Ft.	358	

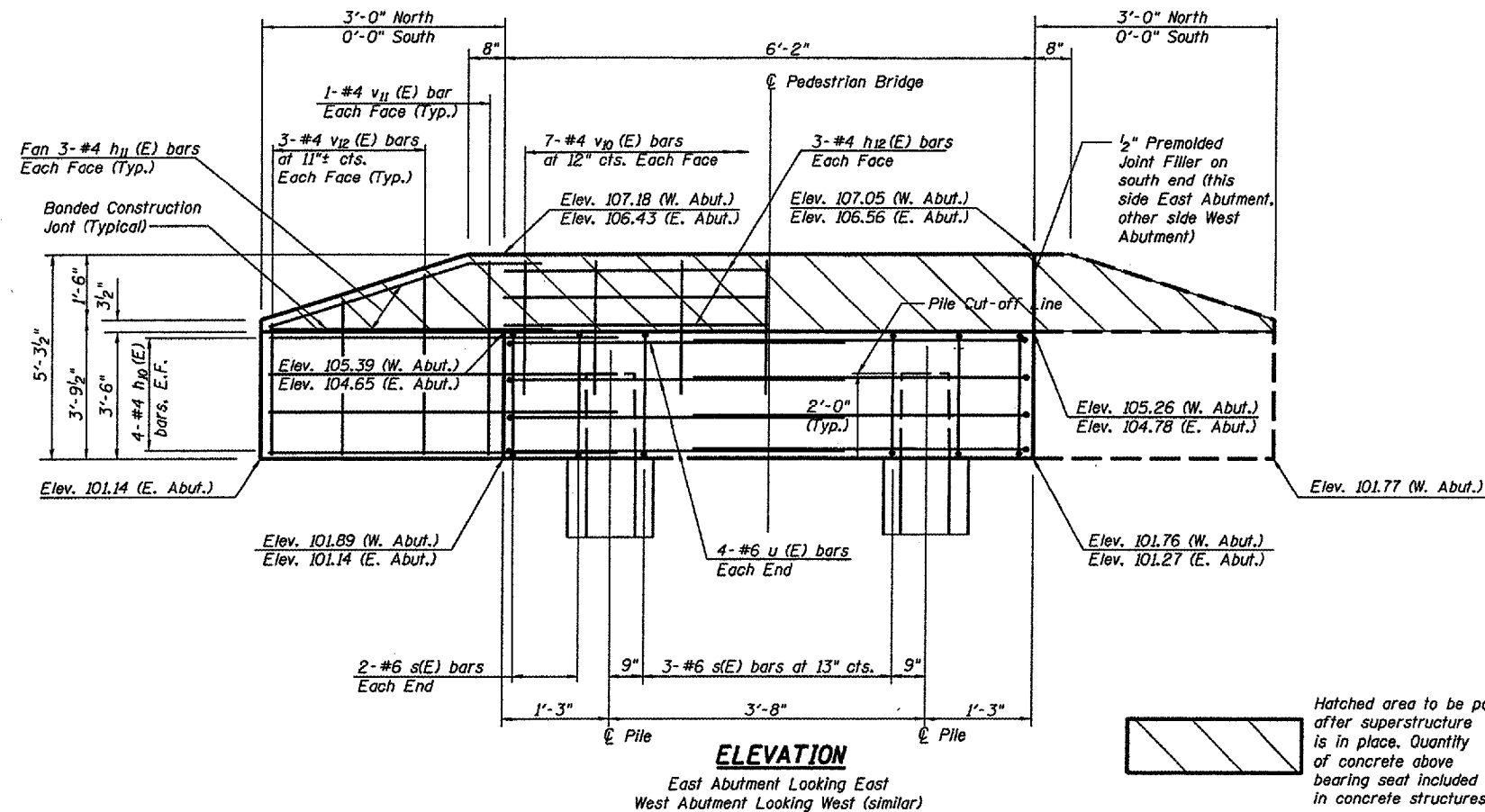
21" BEAM DETAIL
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

DESIGNED	
CHECKED	
DRAWN	
CHECKED	

PD-3-S 10-22-04

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS	SHEET NO.
		WOODFORD	24	13	5
10 SHEETS					
* 05-00018-00-BR CONTRACT #89414					



Note:
There are wingwalls stemming south from the pedestrian abutments. The north wingwalls from the roadway abutments will extend to the south edge of the abutment seats.

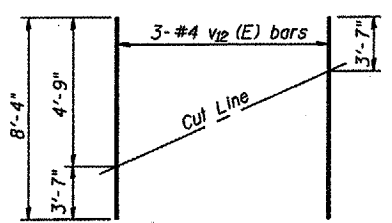
PILE DATA - TYPE HP 12x53

Location	East Abutment	West Abutment
No. Required	2	2
Estimated Length	41 Feet	41 Feet
Required Capacity	24 Tons	24 Tons

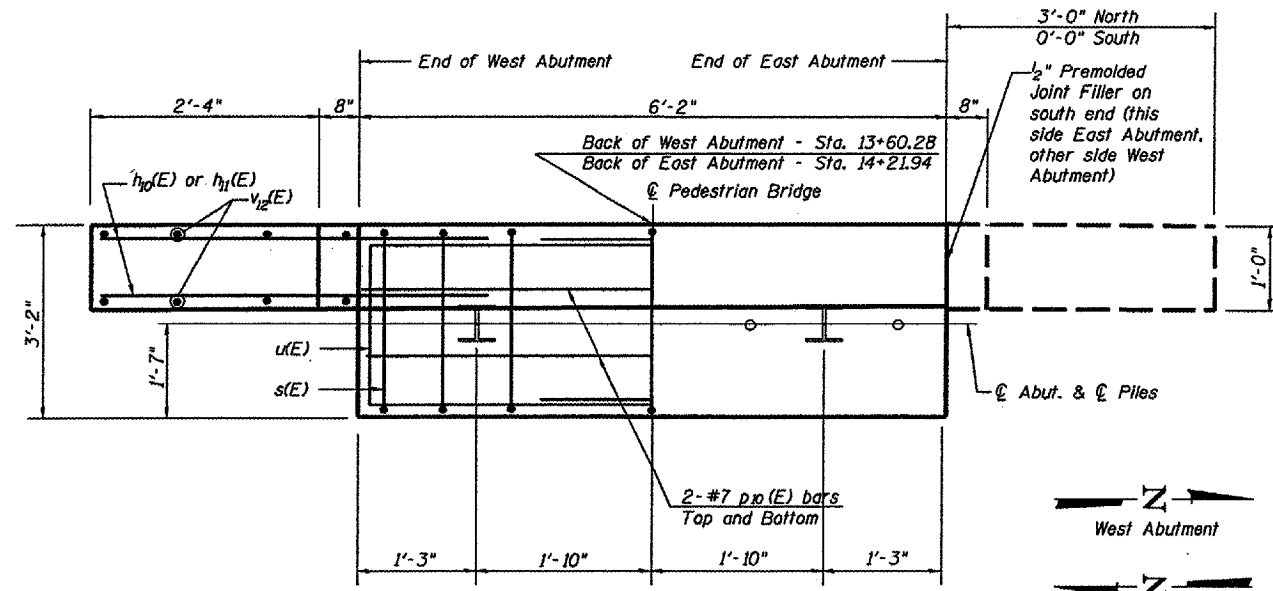
Test pile not required

BILL OF MATERIAL 2 ABUTMENTS

Bar	No.	Size	Length	Shape
h ₁₀ (E)	16	#4	4'-2"	—
h ₁₁ (E)	12	#4	4'-9"	—
h ₁₂ (E)	12	#4	6'-2"	—
p ₁₀ (E)	8	#7	5'-10"	—
s(E)	14	#4	13'-0"	□
u(E)	16	#6	10'-10"	—
v ₁₀ (E)	28	#4	3'-5"	—
v ₁₁ (E)	4	#4	5'-0"	—
v ₁₂ (E)	6	#4	8'-4"	—
Concrete Structures	CU YD		7	
Reinforcement Bars, Epoxy Coated	Pound		721	
Structure Excavation	CU YD		19	
Furnishing Steel Piles HP12x53	FOOT		164	
Driving Steel Piles	FOOT		164	



FIELD CUTTING DIAGRAM
Order v₁₂(E) full length. Cut as shown and use remainder of bars in opposite face.



PLAN

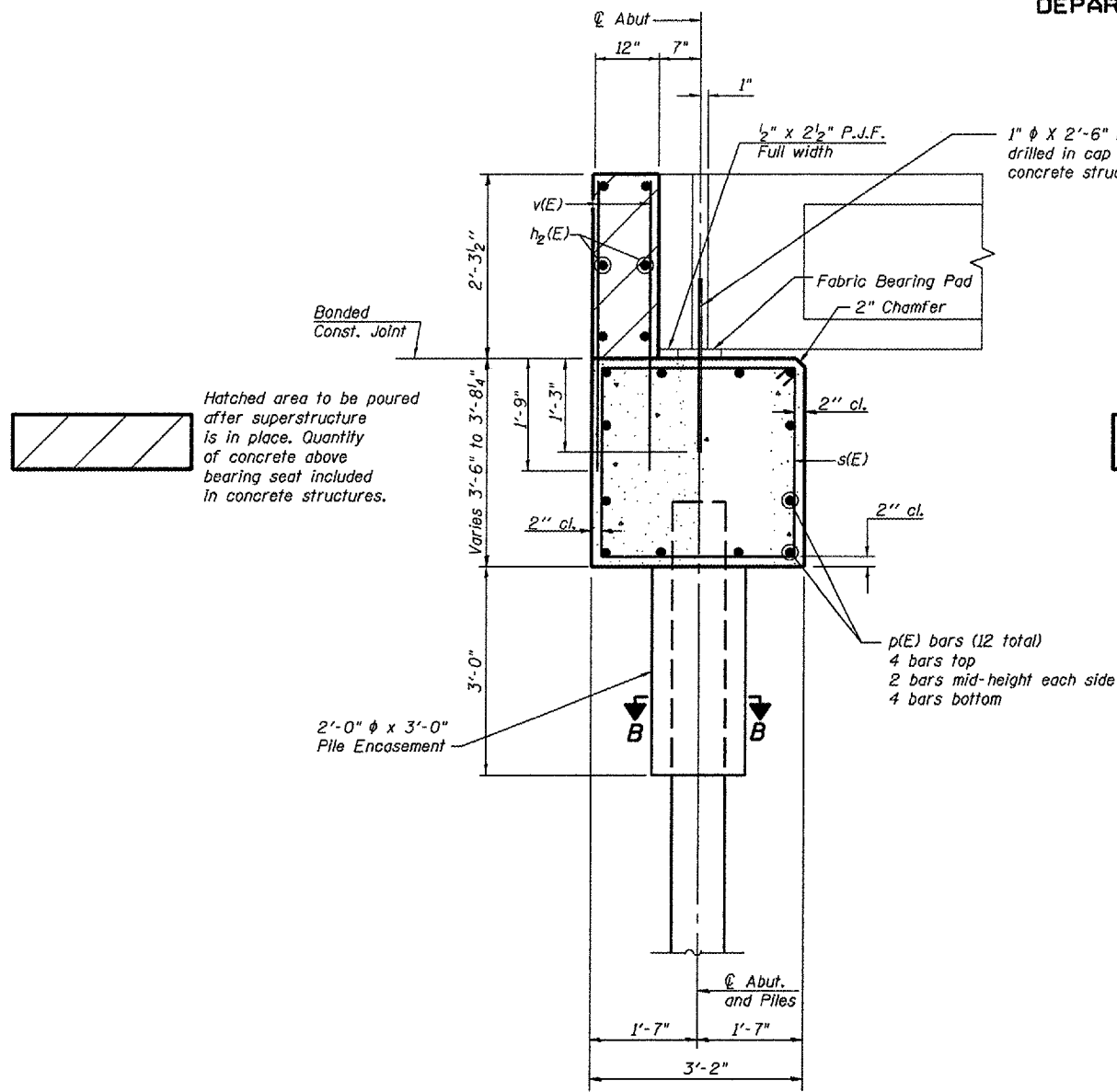
*Contractor shall install a PTF between the Roadway Wingwall and the Pedestrian Abutment.

PEDESTRIAN ABUTMENTS
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

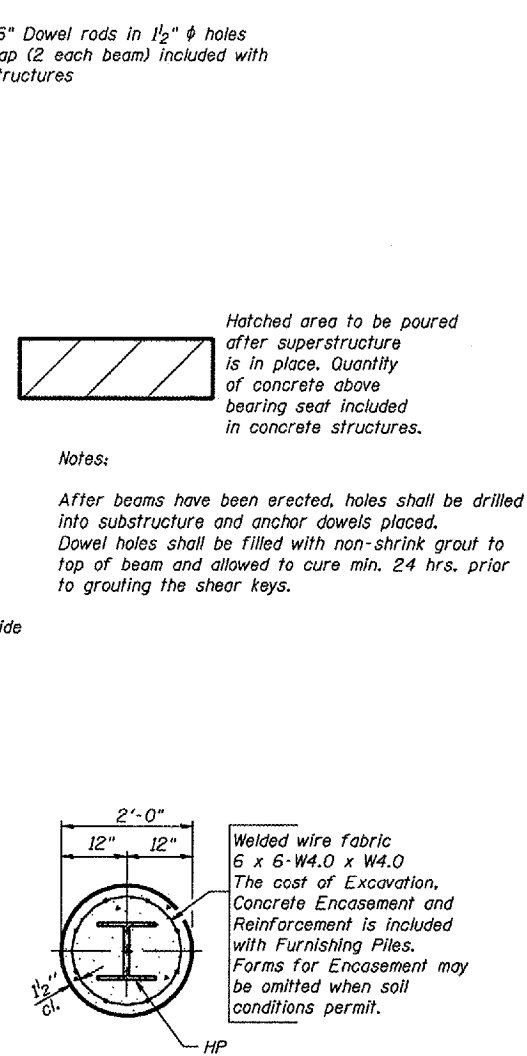
DESIGNED -
CHECKED -
DRAWN -
CHECKED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

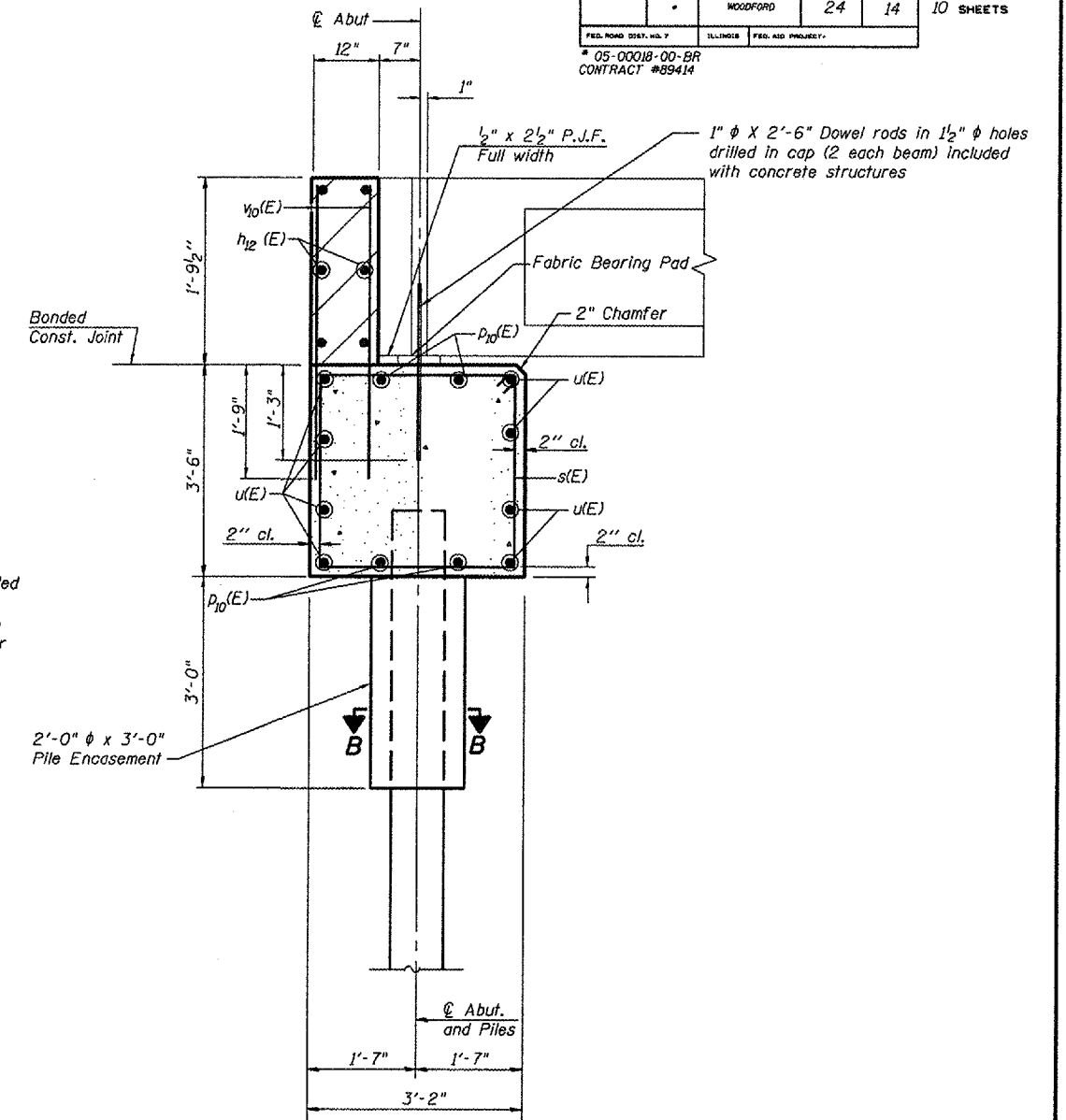
ROUTE NO.	SECTION	COUNTY	SHEET	SET	SHEET NO.
		WOODFORD	24	14	6
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					
05-00018-00-BR CONTRACT #89414					



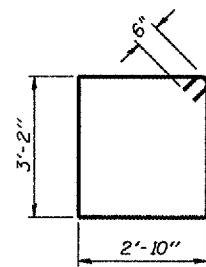
SEC. THRU ROADWAY ABUT.



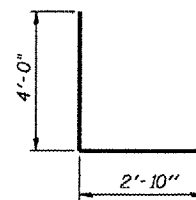
SECTION B-B



SEC. THRU PEDESTRIAN ABUT.



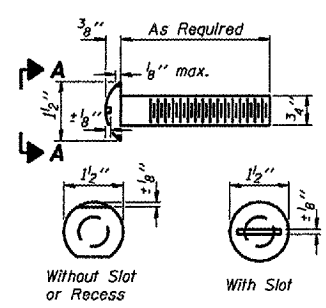
BAR s(E)



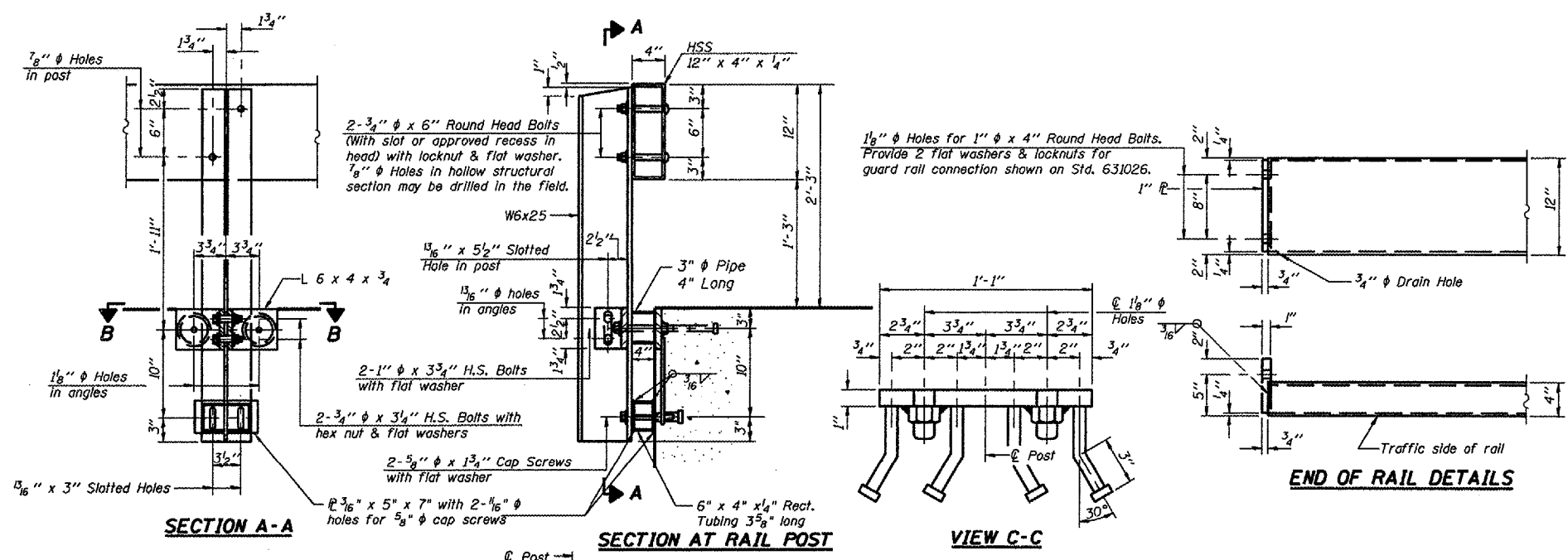
BAR u(E)

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

SUBSTRUCTURE ABUTMENT DETAILS
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11



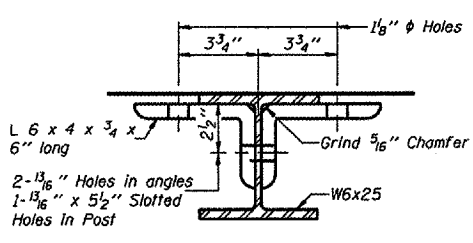
VIEW A-A
ROUND HEAD BOLT



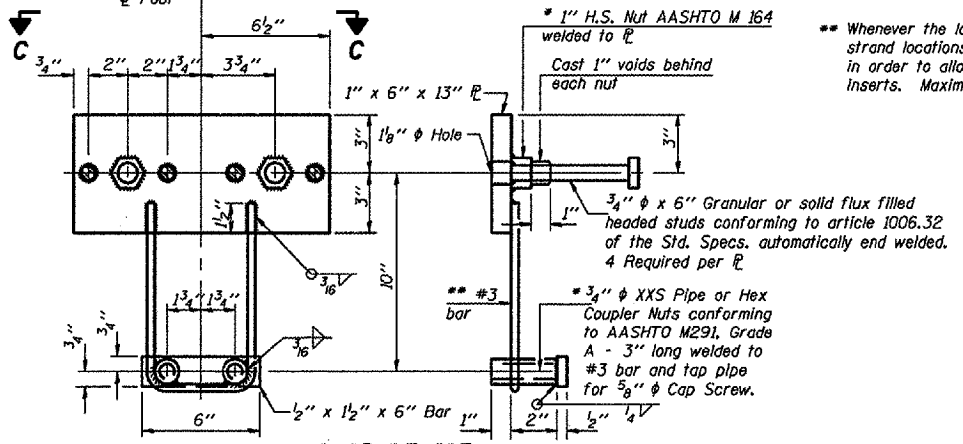
SECTION A-A

SECTION AT RAIL POST

VIEW C-C



SECTION B-B



ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam.

NOTES

Hollow structural sections shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.
All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.
Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.
All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.
All posts, railing, rail splices, anchor devices, tube spacers, and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.
Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL RAILING, TYPE S-1.
All field drilled holes shall be coated with an approved zinc rich paint before erection.
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 1/8 inch fabric bearing pad between the post and concrete.
The 3/4 inch diameter high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1 inch diameter high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8 inch diameter cap screws in bottom of posts shall be tightened to a snug fit only.
For multi-span bridges, sufficient 1/4 inch x 6 inch x 1-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with STEEL RAILING, TYPE S-1.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing Type S-1	Foot	120

TYPE S-1 STEEL RAILING
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

R-23A 10-22-04 (10'-9" Maximum Post Spacing)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
		WOODFORD	24	16
FED. ROAD DIST. NO. Y				
ILLINOIS				
FED. AID PROJECT				

05-00018-00-BR
CONTRACT #89414

NOTES

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Pedestrian Railing.

The 9 gauge fabric ties shall be according to Article 1006.27 (d) of the Standard Specifications.

Installation of the chain link fabric shall be according to Section 664 of the Standard Specifications.

Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.

The chain link fabric shall be placed along Pedestrian Side as shown on Section A-A.

Stretcher bars shall be used at all four sides of each panel.

If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.

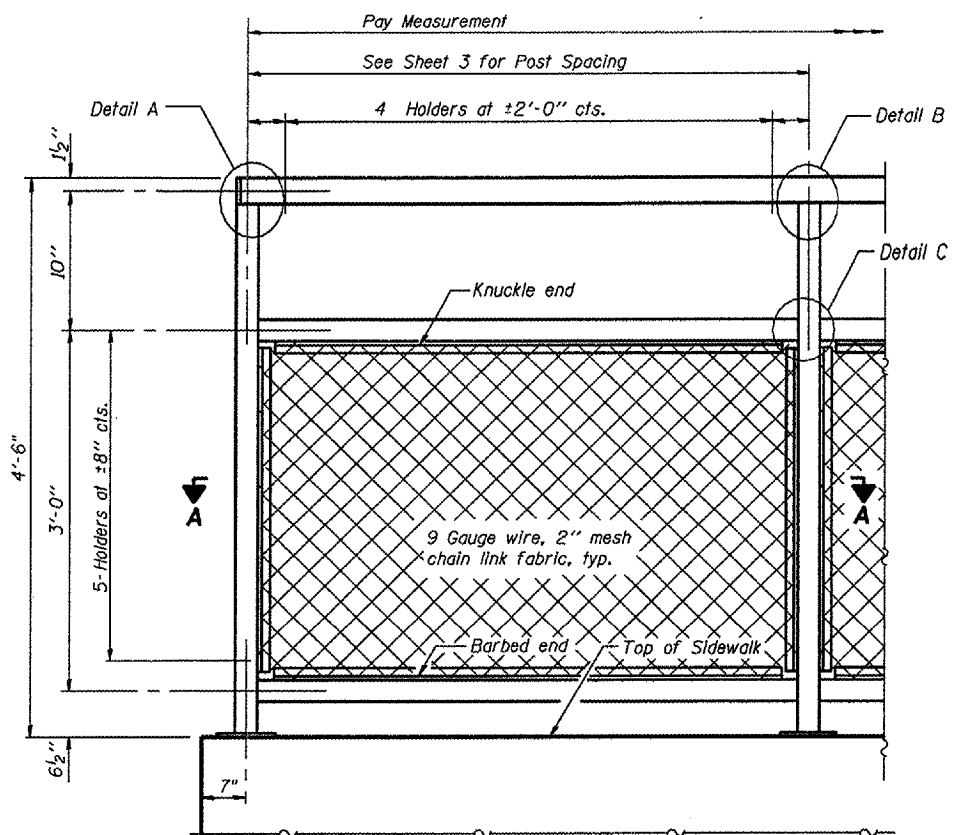
Space reinforcement to miss anchor rods.

All posts, railing, splices, anchor devices, and bent plates shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. All bolts, nuts, washers, and anchor rods shall be galvanized according to AASHTO M 232 except stainless steel bolts as noted.

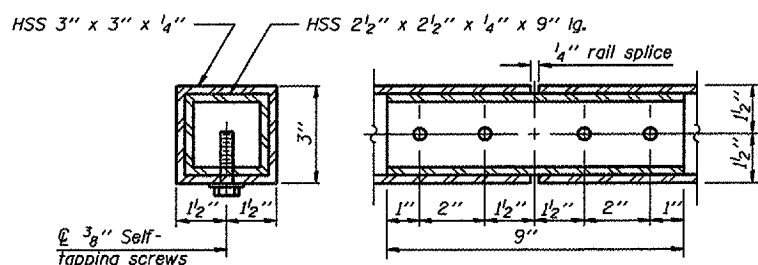
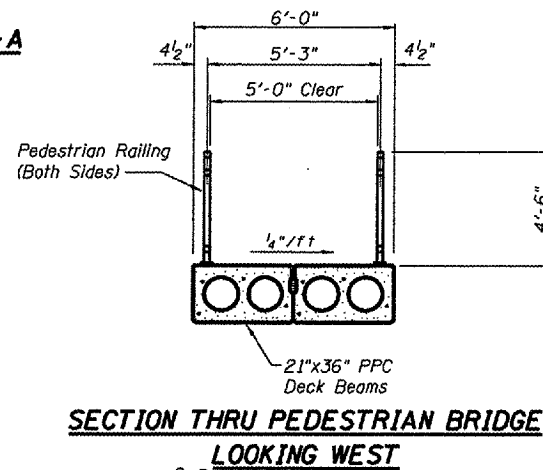
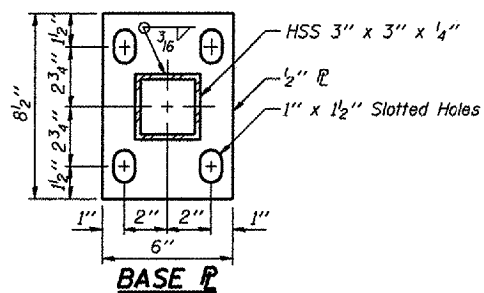
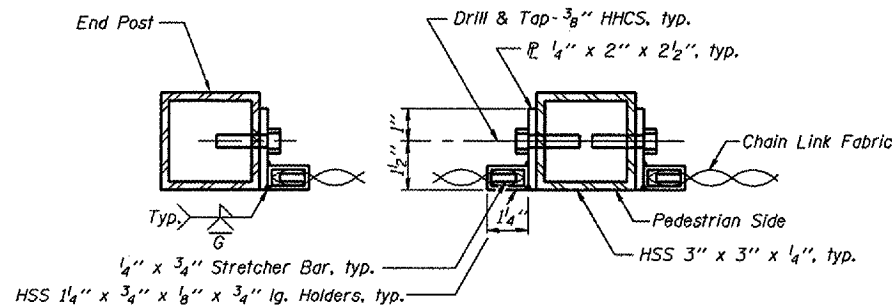
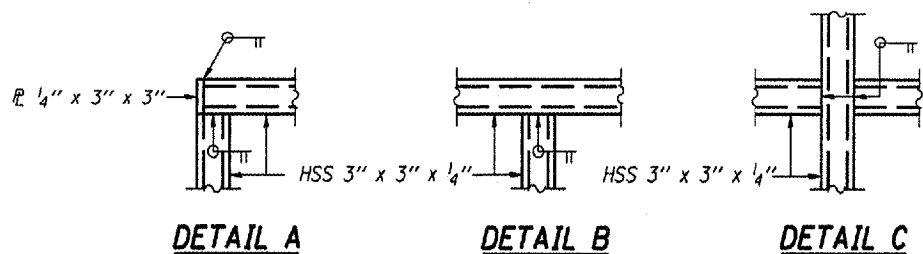
Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.

The chain link fabric shall conform to the requirements of Article 1006.27(a)(1)a, b or c of the Standard Specifications.

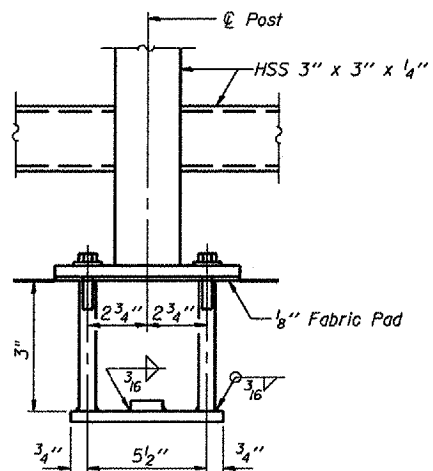
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 1/8" fabric bearing pad between post and concrete.



PEDESTRIAN RAILING

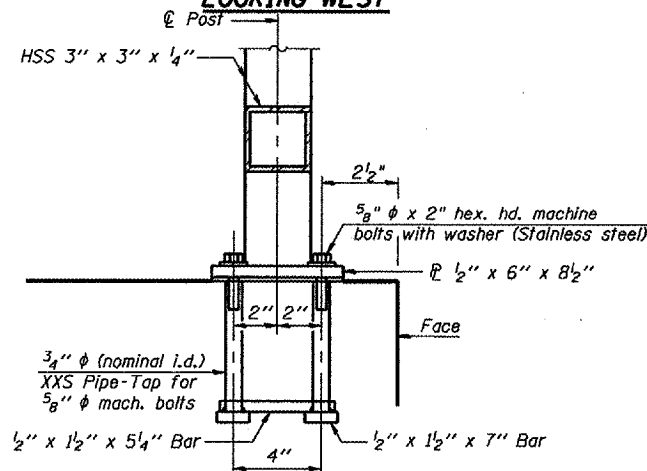


RAIL SPLICE



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting 5/8" φ anchor rods. Embedment shall be according to the manufacturer's specifications.



BILL OF MATERIAL

Item	Unit	Quantity
Pedestrian Railing	Foot	117

PEDESTRIAN RAILING
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

R-29

10-22-04 (10'-0" Maximum Post Spacing)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 9 10 SHEETS
		WOODFORD	24	17	
* 05-00018-00-BR CONTRACT #89414					

BORING NO. B-01
DATE 03-13-06
W. & A. FILE NO. 4703
SHEET 6 OF 6

WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT WASHBURN BRIDGE, SEC. #05-00018-00-BR (STR. #7402) LOCATION Woodford County, Illinois
BORING LOCATION 6' West Of West Abutment, 7' South of Centerline DRILLED BY Fehi
BORING TYPE Hollow Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION (-)11.8 FT.
GROUND SURFACE ELEVATION 100.8 GROUND WATER ELEVATION AT HRS.
BORING DISCONTINUED AT ELEVATION 24.8 GROUND WATER ELEVATION AT COMPLETION (-)13.1 FT.

DEPTH IN FEET	DESCRIPTION	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
3'	OIL AND CHIPS						
11'	Brown, Medium-Grained SAND AND GRAVEL						
04	Medium, Dark Brown SILTY CLAY	SS	2 1 2(3)	0.6	0.6	93	25
		SS	2 3(5)	0.7	0.5	92	26
08	Soft, Dark Brown SANDY CLAY With Some Gravel	SS	1 2 1(3)	0.5	0.3	96	24
		SS	1 2(2)	0.2	-	-	25
12	Very Soft, Brown And Dark Brown SANDY CLAY LOAM	SS	2 3				
		SS	2 3(7)	2.1	1.9	115	18
16	Stiff, Gray, Unweathered GLACIAL SILTY CLAY TILL	SS	3 4 4(8)	2.5	2.3	117	15
		SS	3 4 5(9)	2.0	1.7	116	16
20	Loose, Brown, Medium- To Coarse-Grained SAND With Fine-Grained Gravel	SS	4 5 6(11)	2.2	2.0	116	16
24		SS	1 2 2(4)				

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F. FALLING 30 INCHES
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING NO. B-01
DATE 03-13-06
W. & A. FILE NO. 4703

BORING LOG
(CONTINUATION)

PROJECT Washburn Bridge: Section #05-00018-00-BR (Structure #7402) SHEET 2 OF 6
LOCATION Woodford County, Illinois W. & A. FILE NO. 4703

DEPTH IN FEET	DESCRIPTION	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
	See Sheet 1 of 6						
30	Medium-Density, Brown, Medium- To Coarse-Grained SAND With Fine-Grained Gravel	SS	3 5 5(10)	-	-	-	-
34	Medium-Density, Brown, Medium- To Coarse-Grained SAND With Medium-Grained Gravel	SS	4 5 6(11)	-	-	-	-
38	Hard, Gray, Unweathered GLACIAL SILTY CLAY TILL	SS	6 7 8(15)	-	-	-	-
42	Very Stiff, Gray, Unweathered GLACIAL SILTY CLAY TILL	SS	5 6 12(18)	4.5+	4.2	124	11
46	Hard, Gray, Unweathered GLACIAL SANDY CLAY TILL	SS	8 12 18(30)	4.2	3.8	122	12
50		SS	101(6)	4.5+	5.3	124	10
54		SS	97(9)	4.5+	4.6	124	9

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F. FALLING 30 INCHES
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING NO. B-01
DATE 03-13-06
W. & A. FILE NO. 4703

BORING LOG
(CONTINUATION)

PROJECT Washburn Bridge: Section #05-00018-00-BR (Structure #7402) SHEET 3 OF 6
LOCATION Woodford County, Illinois W. & A. FILE NO. 4703

DEPTH IN FEET	DESCRIPTION	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
	See Sheet 2 of 6						
60		SS	95(9)	4.5+	4.9	125	9
64		SS	101(6)	4.5+	4.5	124	10
68		SS	100(9)	4.5+	4.1	125	9
72		SS	110(9)	4.5+	4.8	126	9
76		SS					
EXPLORATORY BORING DISCONTINUED							
80		SS					
84		SS					

NOTE: Benchmark (100.0) - West Abutment Of Pedestrian Bridge

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F. FALLING 30 INCHES
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

BORING LOGS
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	"SET"	SHEET NO. 10
		WOODFORD	24	18	10 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		
* 05-00018-00-BR CONTRACT #89414					

WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

BORING NO. B-02
DATE 03-13-06
W & A FILE NO. 4703
SHEET 4 OF 6

PROJECT WASHBURN BRIDGE, SEC. #05-00018-00-BR (STR. #7402) LOCATION Woodford County, Illinois
BORING LOCATION 9' East of East Abutment, 7' South of Centerline DRILLED BY Fehrl
BORING TYPE Hollow Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION (-)15.5 Ft.
GROUND SURFACE ELEVATION 100.6 GROUND WATER ELEVATION AT 3 HRS (-) 7.3 Ft.
BORING DISCONTINUED AT ELEVATION -24.5 GROUND WATER ELEVATION AT COMPLETION (-)12.1 Ft.

DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
4'						
11'						
04	SS	1 2(3)	1.0	0.7	102	19
	SS	2 1 2(3)	0.5	0.4	95	25
08	SS	1 2 2(4)	1.3	1.3	112	18
	SS	2 2 2(4)	2.5	2.5	115	16
12	SS	3 5 6(11)	3.8	3.7	119	13
16	SS	5 6 7(13)	2.3	2.1	118	14
	SS	3 4 5(9)	1.8	1.7	116	16
20	SS	3 4 6(10)	2.5	2.5	118	13
	SS	3 5 5(10)	1.6	1.5	115	16
24	SS	4 5 6(11)	2.0	1.9	116	15

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F. FALLING 30 INCHES
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING LOG
(CONTINUATION)

BORING NO. B-02 DATE 03-13-06
PROJECT Washburn Bridge; Section #05-00018-00-BR (Structure #7402) SHEET 5 OF 6
LOCATION Woodford County, Illinois W & A FILE NO. 4703

DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
		4 5 7(12)				8
30	SS	5 6 8(14)				
34	SS	6 7 9(16)				
38	SS	5 6 9(15)	3.3	3.0	121	12
42	SS	5 6 9(15)	3.3	3.0	121	12
46	SS	94/9'	4.5+	4.6	125	9
50	SS	101/6'	4.5+	5.2	125	8
54	SS	101/9'	4.5+	4.6	126	8

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F. FALLING 30 INCHES
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING LOG
(CONTINUATION)

BORING NO. B-02 DATE 03-13-06
PROJECT Washburn Bridge; Section #05-00018-00-BR (Structure #7402) SHEET 6 OF 6
LOCATION Woodford County, Illinois W & A FILE NO. 4703

DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
60	SS	97/8'	4.5+	4.6	126	9
64	SS	95/8'	4.5+	4.8	125	9
68	SS	92/8'	4.5+	5.1	124	9
72	SS	105/9'	4.5+	4.6	123	10
76	SS	105/9'	4.5+	4.6	123	10
80						
84						

EXPLORATORY BORING DISCONTINUED

NOTE: Benchmark (100.0) - West Abutment Of Pedestrian Bridge

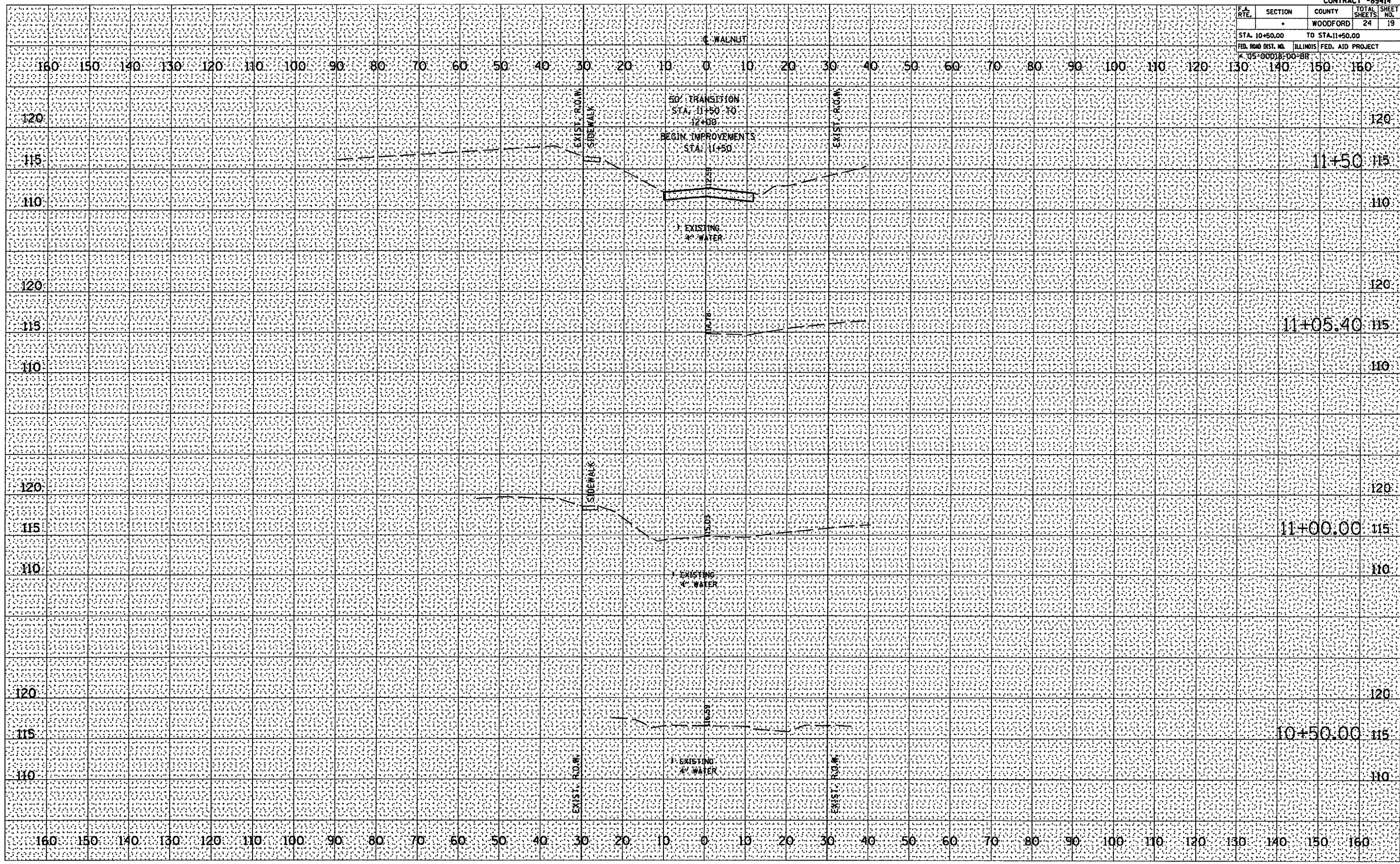
N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F. FALLING 30 INCHES
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

BORING LOGS
WALNUT STREET OVER SNAG CREEK
SECTION 05-00018-00-BR
WOODFORD COUNTY
STATION 13+91.11

CONTRACT #89414			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
		WOODFORD	24
STA. 10+50.00		TO STA. 11+50.00	
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT	
05-00018-00-88			



DATE	BY
DESIGNED	BY
CHECKED	BY
PLOTTED	DATE
NO.	

DATE	BY
DESIGNED	BY
CHECKED	BY
PLOTTED	DATE
NO.	

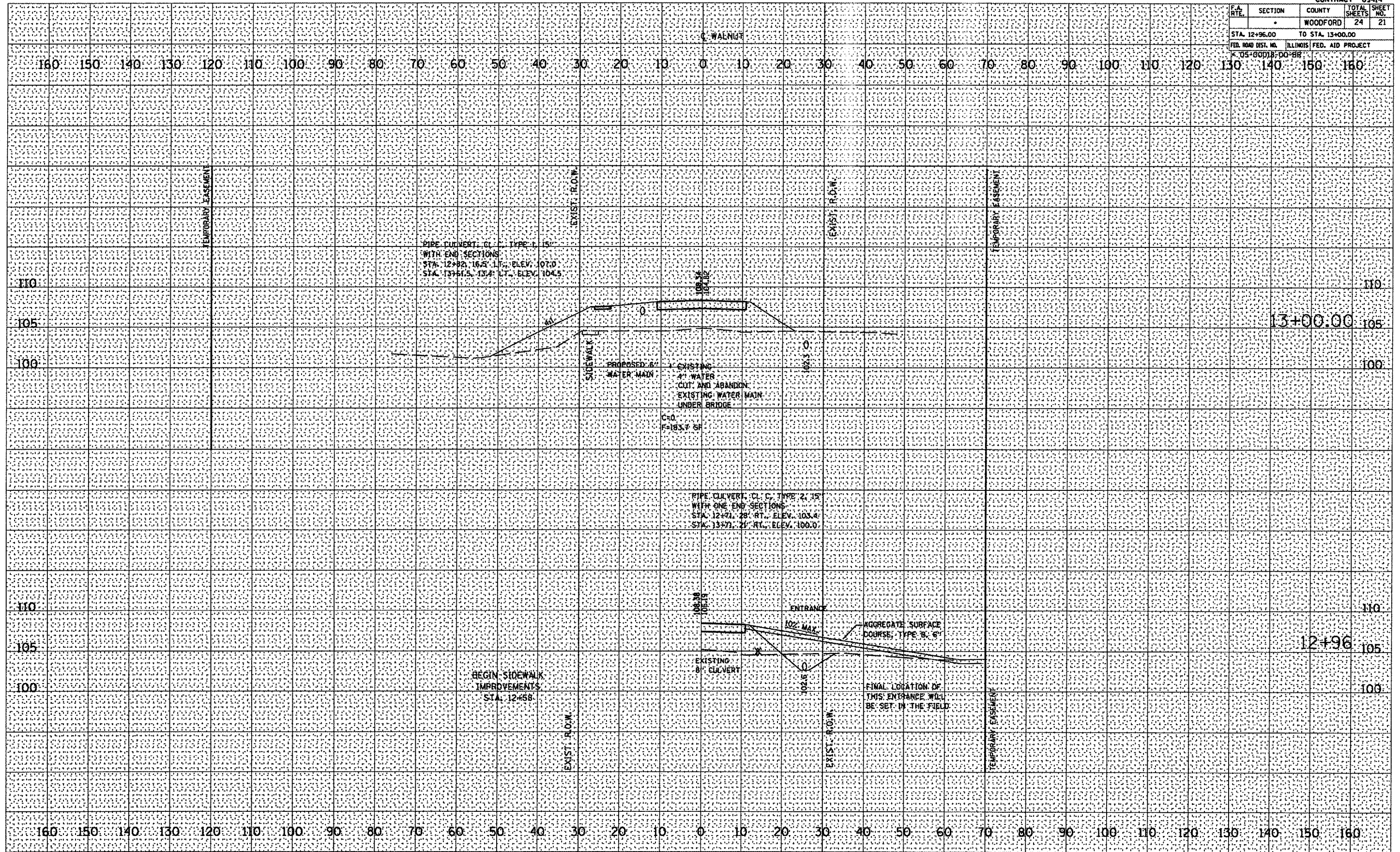
PLOT DATE: 5/15/2007
 PLOT NAME: 579209-PLANS-SHEETS-89414.dwg
 USER: JAC

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WOODFORD	24	21
STA. 12+96.00		TO STA. 13+00.00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
K-05-GOODS-DO-BR				

BY	DATE

BY	DATE

PLOT DATE: 5/15/2007
 PLOT TIME: 12:48:22 PM
 FILE NAME: D:\WORK\579209\579209.DWG
 PLOT SCALE: 1"=40'-0"
 USER NAME: JLS



PIPE CULVERT, CL. C, TYPE 1, 15"
 WITH END SECTIONS
 STA. 12+82, 16.5' LT., ELEV. 97.0
 STA. 13+15, 13.4' LT., ELEV. 104.5

PIPE CULVERT, CL. C, TYPE 2, 15"
 WITH ONE END SECTION
 STA. 12+71, 28' RT., ELEV. 103.4
 STA. 13+70, 21' RT., ELEV. 100.0

BEGIN SIDEWALK
 IMPROVEMENTS
 STA. 12+55

FINAL LOCATION OF
 THIS ENTRANCE WILL
 BE SET IN THE FIELD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WOODFORD	24	23
STA. 15+00.00		TO STA. 15+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
K 05-00018-00-BB				

DATE	
BY	
REVIEWED	
DATE	
NO.	

DATE	
BY	
REVIEWED	
DATE	
NO.	

PLOT DATE: 5/15/2007
 FILE NAME: S:\ASSETS\89414\89414-SHEETS-89414.dwg
 PLOT SCALE: 22/888 / IN.
 USER NAME: JAC

