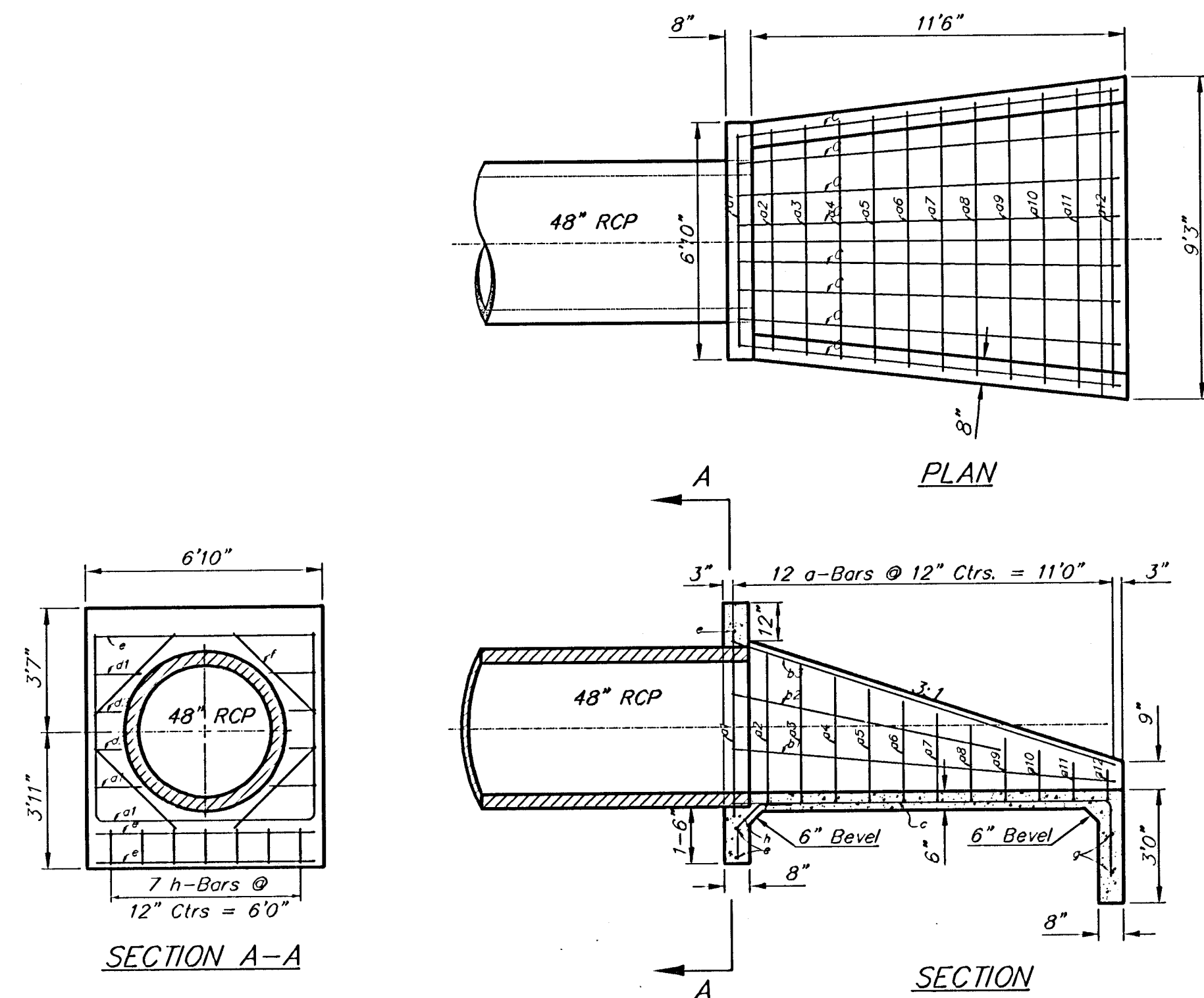




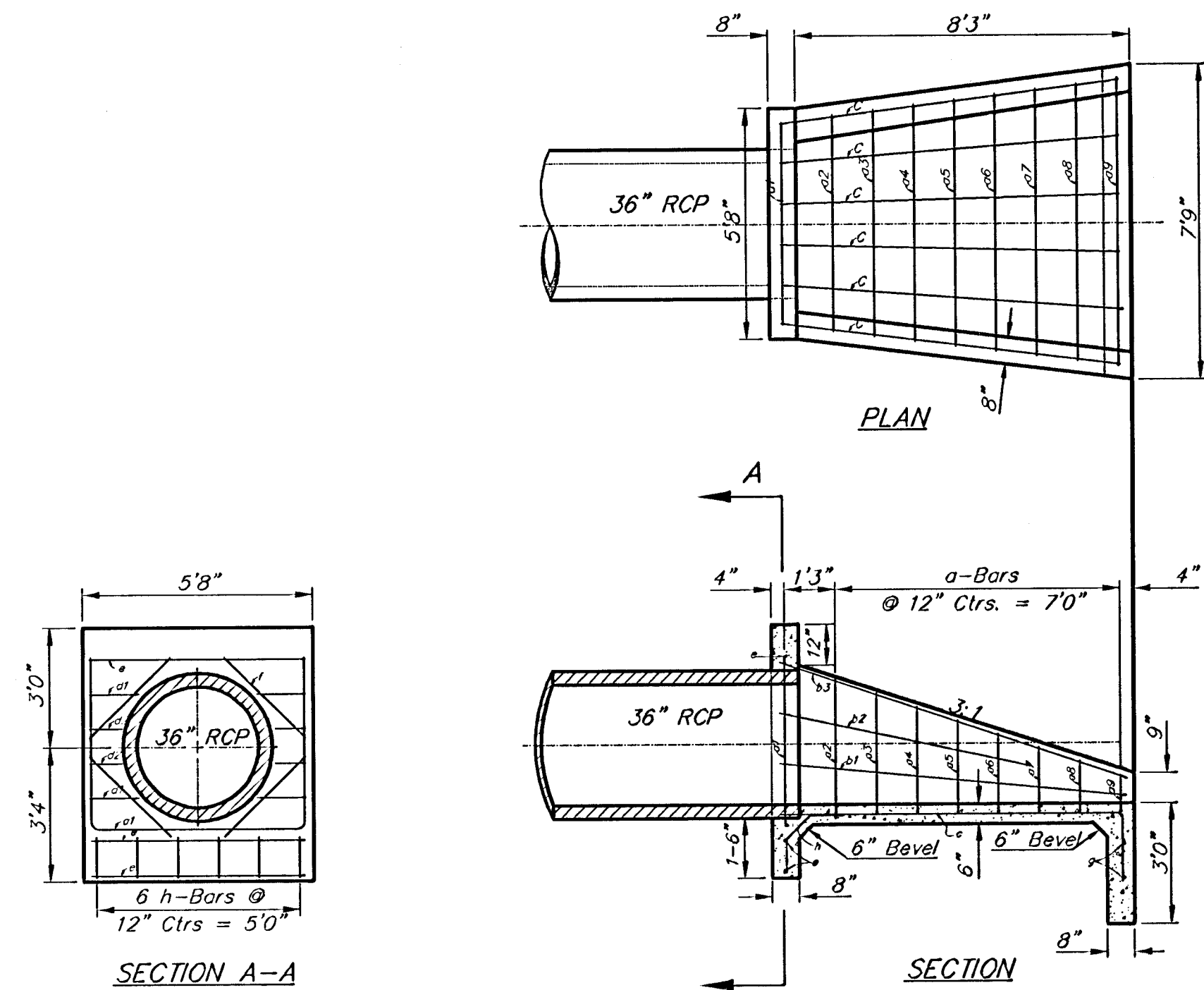
a-Bars	
a1 5'7"	
a2 5'10"	
a3 6'1"	
a4 6'4"	
a5 6'6"	
a6 6'9"	
a7 7'0"	
a8 7'3"	
a9 7'6"	
a10 7'9"	
a11 8'0"	
a12 8'3"	

h-Bars	
h1 5'0"	
h2 4'0"	
h3 3'8"	
h4 3'4"	
h5 3'0"	
h6 2'8"	
h7 2'4"	
h8 2'0"	
h9 1'8"	
h10 1'4"	
h11 1'0"	
h12 0'8"	

REBAR SCHEDULE				
Bar	Shape	No.	Length	Weight
a1		1	15'7"	10.41
a2		1	13'10"	9.24
a3		1	13'5"	8.96
a4		1	13'0"	8.68
a5		1	12'6"	8.35
a6		1	12'1"	8.07
a7		1	11'8"	7.79
a8		1	11'3"	7.52
a9		1	10'9"	7.18
a10		1	10'5"	6.96
a11		1	10'0"	6.68
a12		1	9'7"	6.40
b1		2	10'8"	14.24
b2		2	7'9"	10.35
b3		2	11'2"	14.91
c		8	12'6"	66.80
d1		4	1'3"	3.34
d2		4	9"	2.00
e		3	6'2"	12.36
f		4	3'5"	9.14
g		2	8'9"	11.69
h		7	2'6"	11.69
Total Rebar			252.76 Lbs.	
Concrete			C.Y.	

A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall
 * Field Bend or Cut Reinforcing as Required for Clearance.
 All Concrete Reinforcement to be #4 Rebar
 All Rebar to Have Min. of 1 1/2" Conc. Cover

HEADWALL FOR 48" RCP



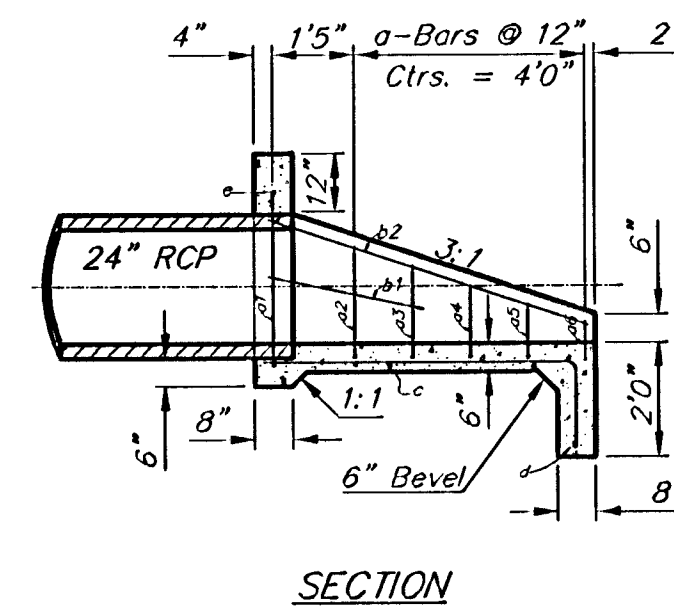
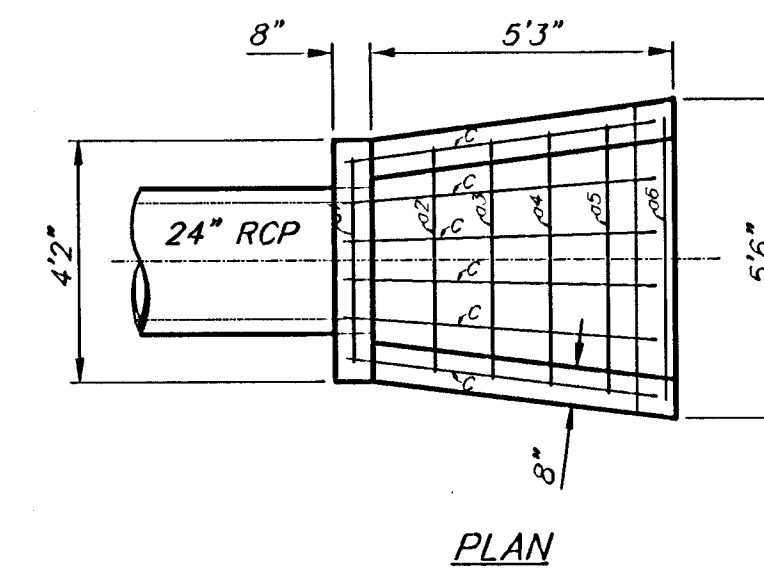
a-Bars	
a1 4'5"	
a2 3'4"	
a3 2'11"	
a4 2'7"	
a5 2'3"	
a6 1'11"	
a7 1'7"	
a8 1'2"	
a9 1'0"	

c-Bars	
c1 5'2"	
c2 5'2"	
c3 5'5"	
c4 5'8"	
c5 5'11"	
c6 6'2"	
c7 6'5"	
c8 6'8"	
c9 6'11"	

REBAR SCHEDULE				
Bar	Shape	No.	Length	Weight
a1		1	14'0"	9.35
a2		1	11'10"	7.90
a3		1	11'3"	7.52
a4		1	10'10"	7.24
a5		1	10'5"	6.96
a6		1	10'0"	6.68
a7		1	9'7"	6.40
a8		1	9'0"	6.01
a9		1	8'7"	5.73
b1		2	8'5"	11.24
b2		2	4'7"	6.12
b3		2	9'0"	12.02
c		6	10'4"	41.42
d1		4	1'6"	4.01
d2		4	1'0"	2.23
e		3	5'4"	10.69
f		4	3'0"	8.02
g		2	7'0"	9.35
h		6	2'6"	10.02
Total Rebar			178.91 Lbs.	
Concrete			3.20 C.Y.	

A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall
 * Field Bend or Cut Reinforcing as Required for Clearance.
 All Concrete Reinforcement to be #4 Rebar
 All Rebar to Have Min. of 1 1/2" Conc. Cover

HEADWALL FOR 36" RCP



a-Bars	
a1 3'5"	
a2 3'9"	
a3 4'0"	
a4 4'3"	
a5 4'6"	
a6 4'9"	

c-Bars	
c1 3'0"	
c2 1'11"	
c3 1'7"	
c4 1'3"	
c5 1'1"	
c6 8"	

REBAR SCHEDULE				
Bar	Shape	No.	Length	Weight
a1		1	9'5"	6.29
a2		1	7'7"	5.07
a3		1	7'2"	4.79
a4		1	6'9"	4.51
a5		1	6'4"	4.23
a6		1	6'1"	4.06
b1		2	2'9"	3.67
b2		2	5'10"	7.79
c		6	6'11"	27.72
d		1	5'0"	3.37
e		1	3'10"	2.56
Total Rebar			74.03 Lbs.	
Concrete			1.40 C.Y.	

A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall
 * Field Bend or Cut Reinforcing as Required for Clearance.
 All Concrete Reinforcement to be #4 Rebar
 All Rebar to Have Min. of 1 1/2" Conc. Cover

HEADWALL FOR 24" RCP

- GENERAL NOTES**
- ALL PIPES SHALL BE FLUSH CUT PRIOR TO BEING CAST INTO CONCRETE HEADWALL
 - CONCRETE USED IN HEADWALL CONSTRUCTION SHALL BE SAME AS PER CITY STANDARD PAVING MIX EXCEPT THAT IT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
 - ALL EXPOSED EDGES SHALL BE BEVELED 1/2".
 - REINFORCING STEEL SHALL COMPLY TO A.S.T.M. DESIGNATION A615 GRADE 60. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS OTHERWISE NOTED.
 - THE "REIN. CONC. HEADWALL" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH IN PLACE WHICH SHALL INCLUDE ALL LABOR, MATERIALS, EXCAVATION, CONCRETE, REINFORCING STEEL AND ALL OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK. MATERIAL QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

HEADWALL DETAIL	
Baughman Company, P.A. 315 Ellis St. Willsboro, N.Y. 12891 F 316-262-7211 F 316-262-0149 ENGINEERING SURVEYING LANDSCAPE ARCHITECTURE	
PROJECT NUMBER 468-83968	DESIGN BLP/DMV
REVISIONS	DRAWN JAK
APPROVED	DATE 09-05
SCALE Noted	SHEET 23 OF 34
Hdwdet2	