

ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
Inside Diameter of Pipe (Inches)	Pay-volume of Pipe (cu ft. per ft.)	Pay-volume of Trench (cu ft. per ft.)	Pay-volume of Concrete Encasement (cu ft. per ft.)	Inside Diameter of Pipe (Inches)	Pay-volume of Pipe (cu ft. per ft.)	Pay-volume of Trench (cu ft. per ft.)	Pay-volume of Concrete Encasement (cu ft. per ft.)
4	28	2.33	3.20				
6	28	2.33	3.46				
8	28	2.33	3.70				
10	28	2.33	3.86				
12	28	2.33	3.98				
15	32	2.87	4.89				
18	35	2.92	5.83	14 X 23	41	3.42	5.94
21	39	3.25	6.61				
24	42	3.50	7.39	19 X 30	49	4.08	7.68
27	45	3.75	8.18	22 X 34	53	4.42	8.61
30	49	4.08	9.30	24 X 39	58	4.83	9.70
33	53	4.42	10.33	27 X 42	62	5.17	10.71
36	56	4.67	11.43	29 X 45	66	5.50	11.72
39	60	5.00	12.50	32 X 49	71	5.92	13.14
42	63	5.25	13.38	34 X 53	75	6.25	14.00
45	67	5.50	14.25	36 X 57	79	6.58	14.86
48	70	5.83	15.67	38 X 60	83	6.92	16.18
51	74	6.17	17.10	40 X 64	87	7.25	17.50
54	77	6.42	18.15	43 X 68	92	7.67	18.81
57	81	6.75	19.20	45 X 72	96	8.00	20.13
60	84	7.00	20.25	48 X 76	101	8.42	21.59
63	87	7.25	21.30	50 X 80	105	8.75	23.00
66	91	7.58	22.45	53 X 83	109	9.08	24.35
69	94	7.83	23.50	56 X 87	113	9.42	25.71
72	98	8.17	24.65	58 X 91	118	9.83	27.14
75	101	8.42	25.70	61 X 95	122	10.17	28.50
78	105	8.75	26.85	63 X 98	126	10.50	30.00
81	109	9.08	28.00	66 X 102	130	10.83	31.50
84	112	9.33	29.15	68 X 106	135	11.25	33.00
87	116	9.67	30.30	71 X 110	140	11.67	34.50
90	119	9.92	31.45	74 X 114	144	12.00	36.00
93	123	10.25	32.60	77 X 118	149	12.42	37.50
96	126	10.50	33.75	80 X 122	153	12.75	39.00
99	130	10.83	34.90	82 X 126	158	13.17	40.50
102	134	11.17	36.05	85 X 130	162	13.50	42.00
105	137	11.42	37.20	88 X 134	167	13.92	43.50
108	141	11.75	38.35	90 X 138	171	14.25	45.00
111	144	12.00	39.50	93 X 142	176	14.67	46.50
114	147	12.25	40.65	96 X 146	181	15.00	48.00
117	151	12.58	41.80	99 X 150	185	15.42	49.50
120	154	12.83	42.95	102 X 154	190	15.83	51.00
123	158	13.17	44.10	105 X 158	194	16.17	52.50
126	161	13.42	45.25				
129	165	13.75	46.40				
132	168	14.00	47.55				
135	172	14.33	48.70				
138	175	14.58	49.85				
141	179	14.92	51.00				
144	182	15.17	52.15				

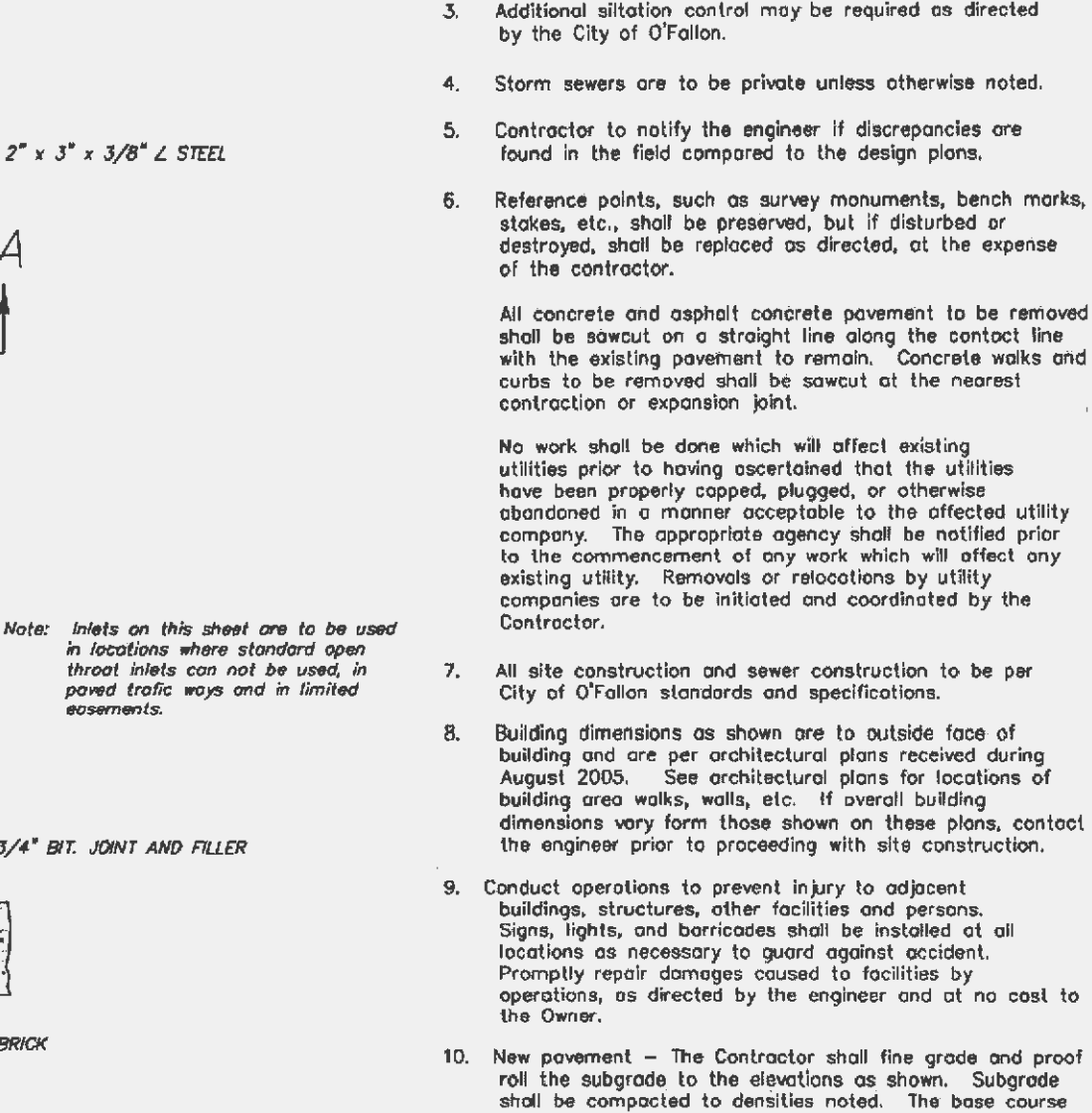
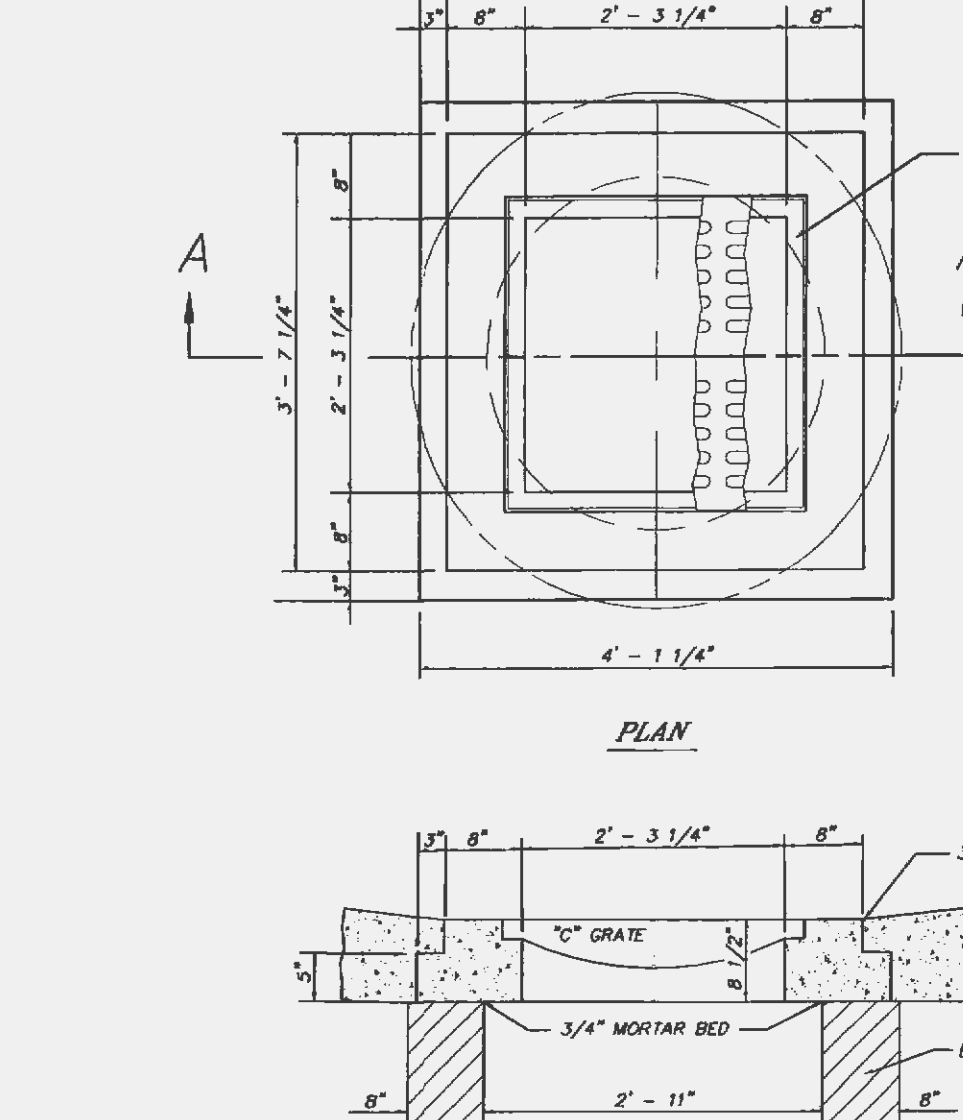
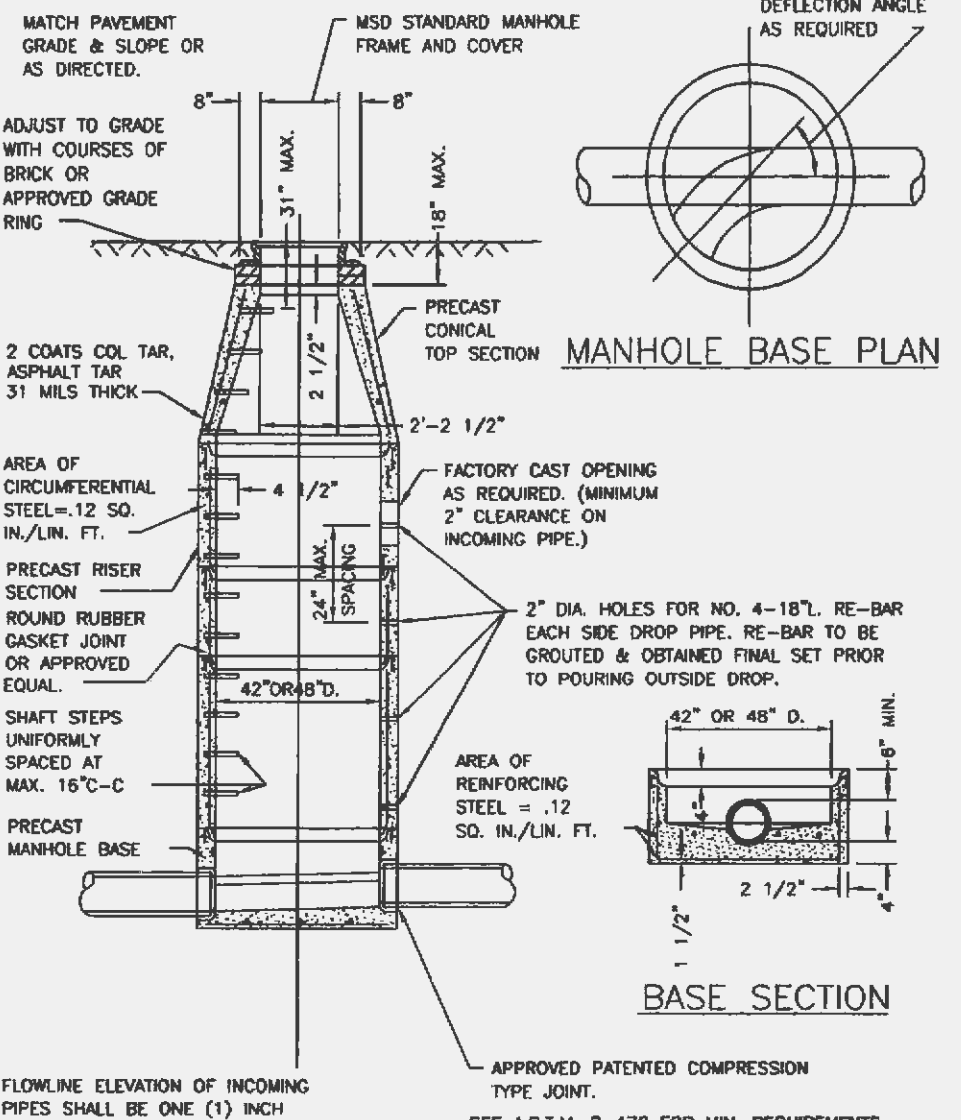
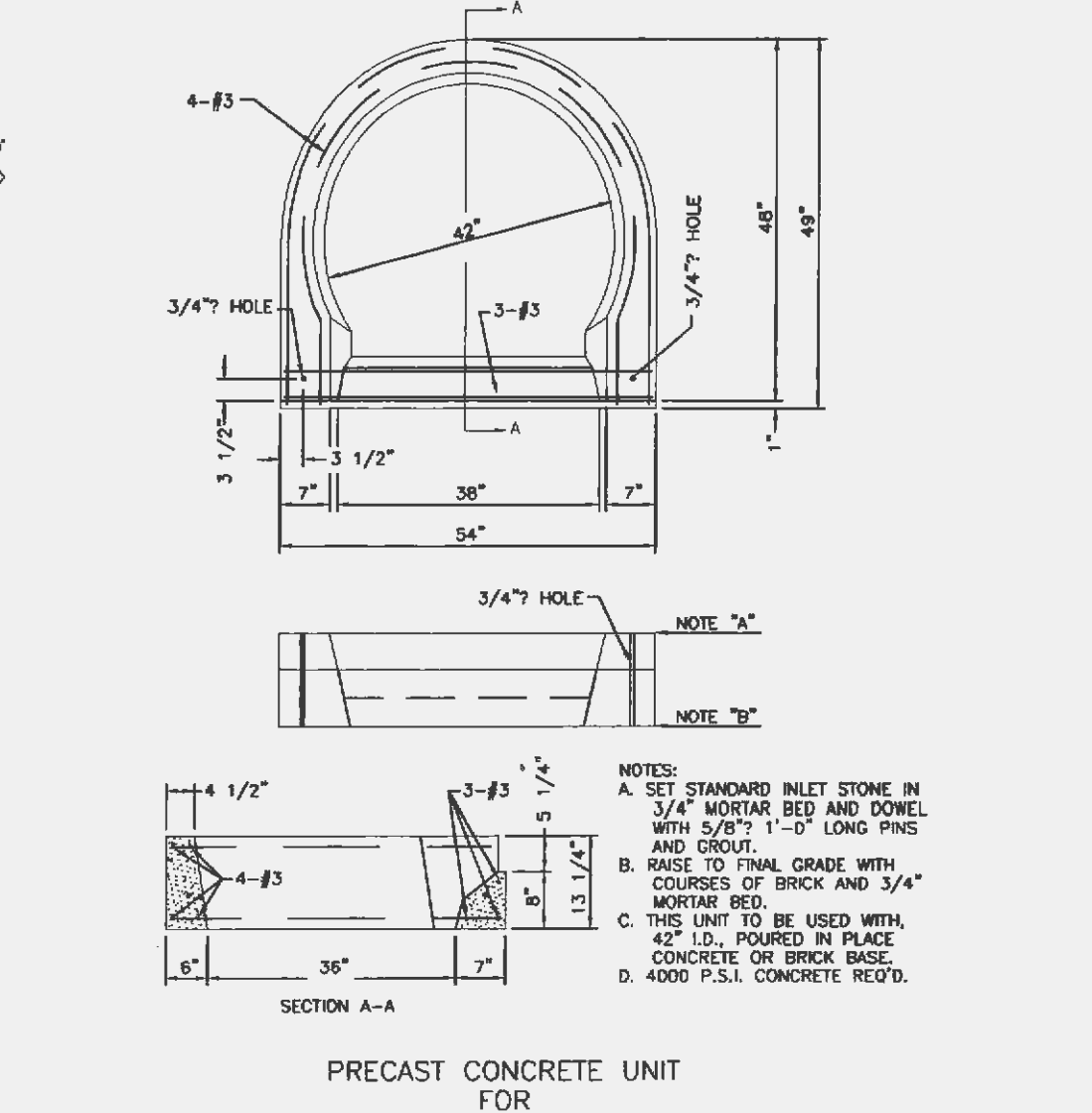
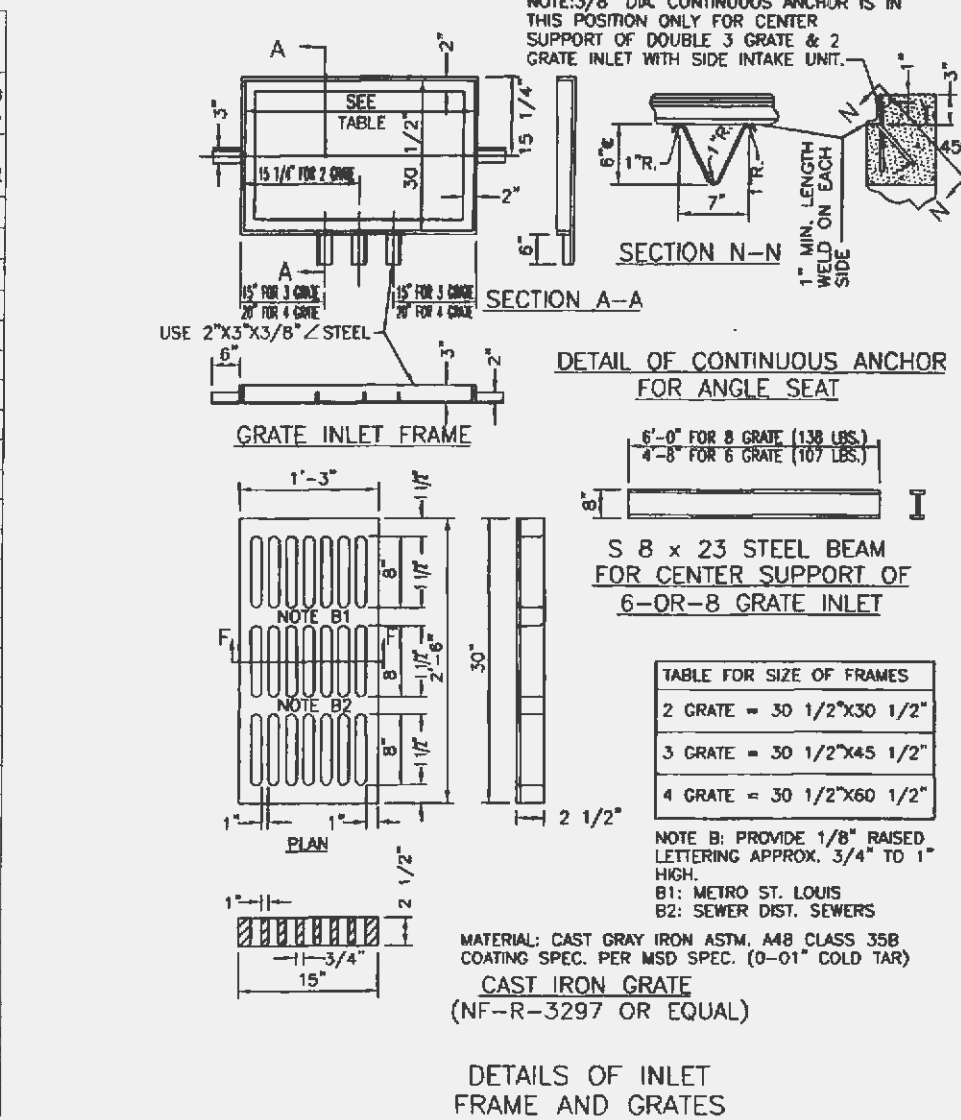
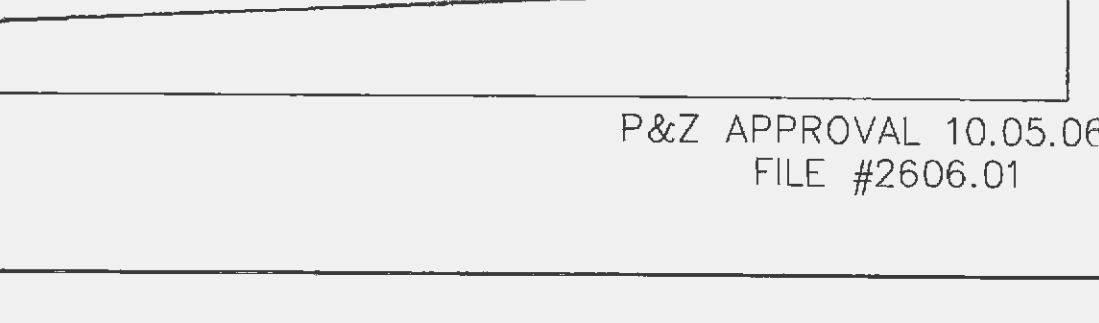
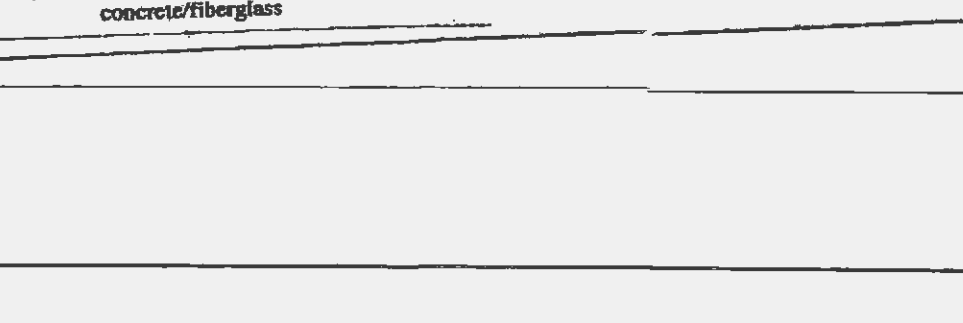
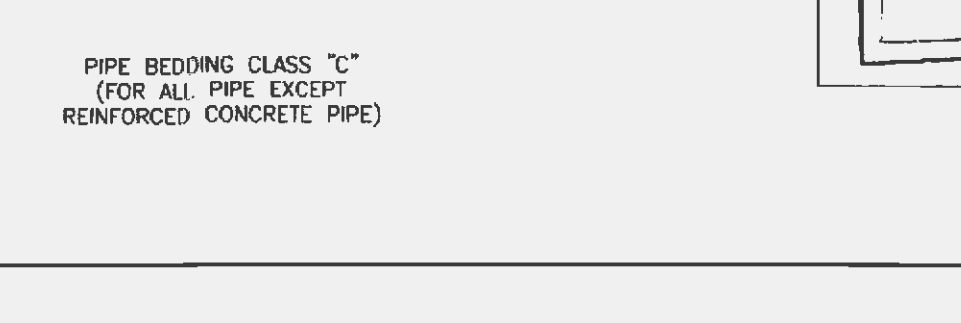
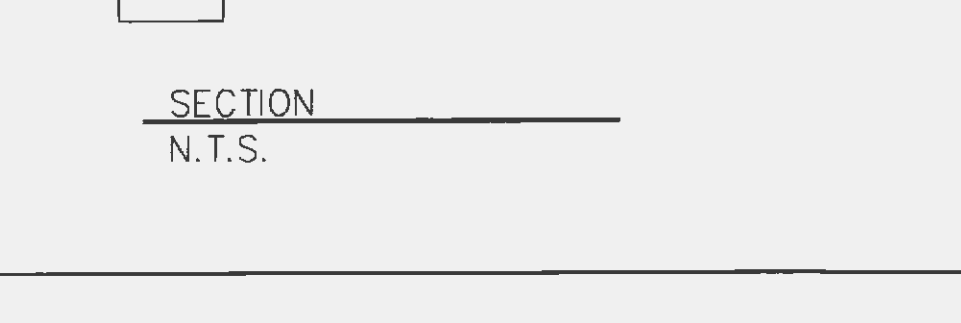
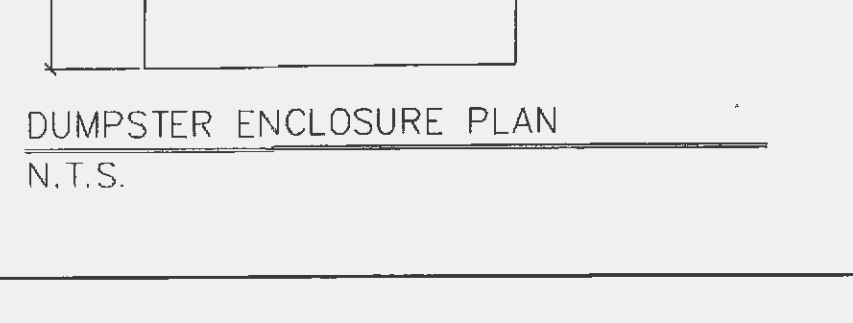
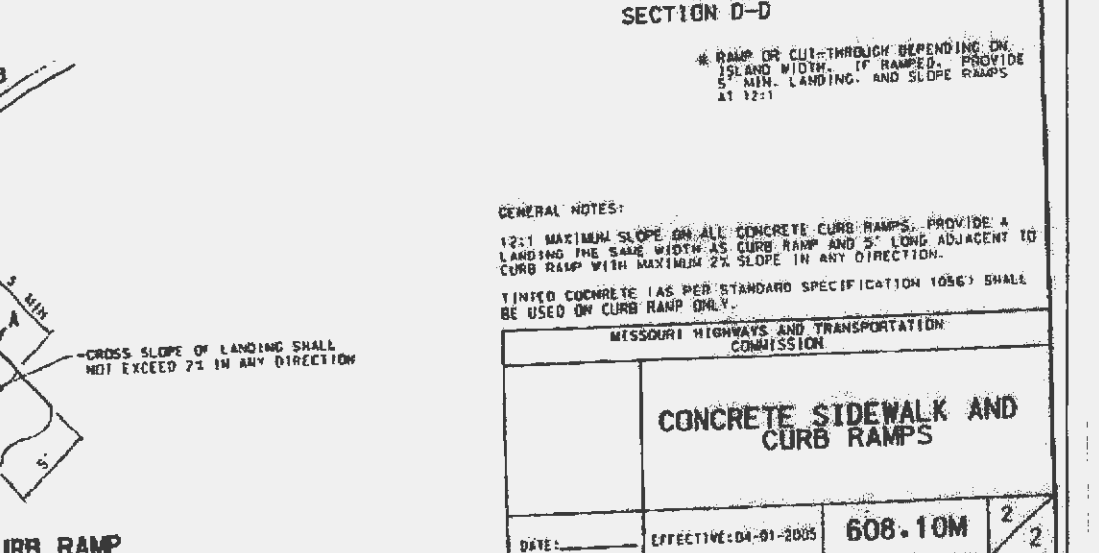
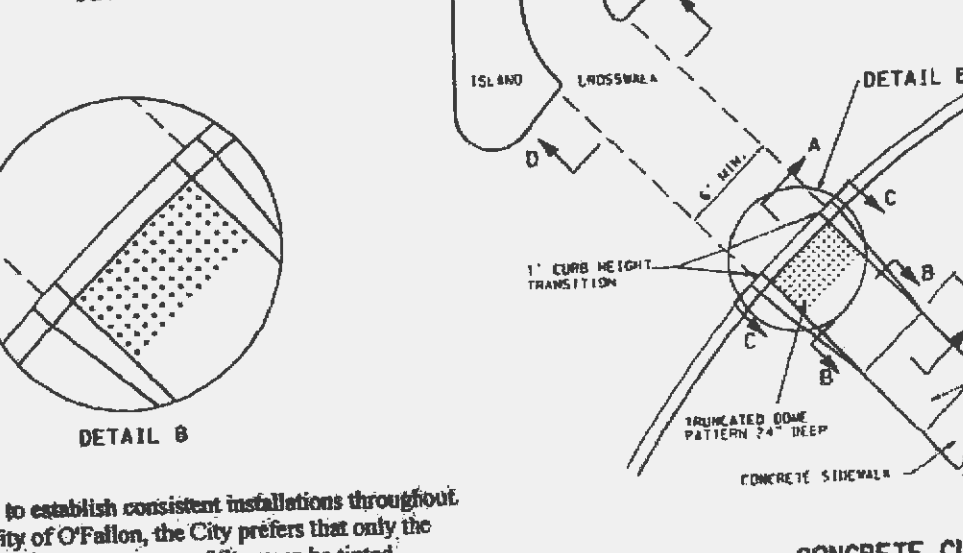
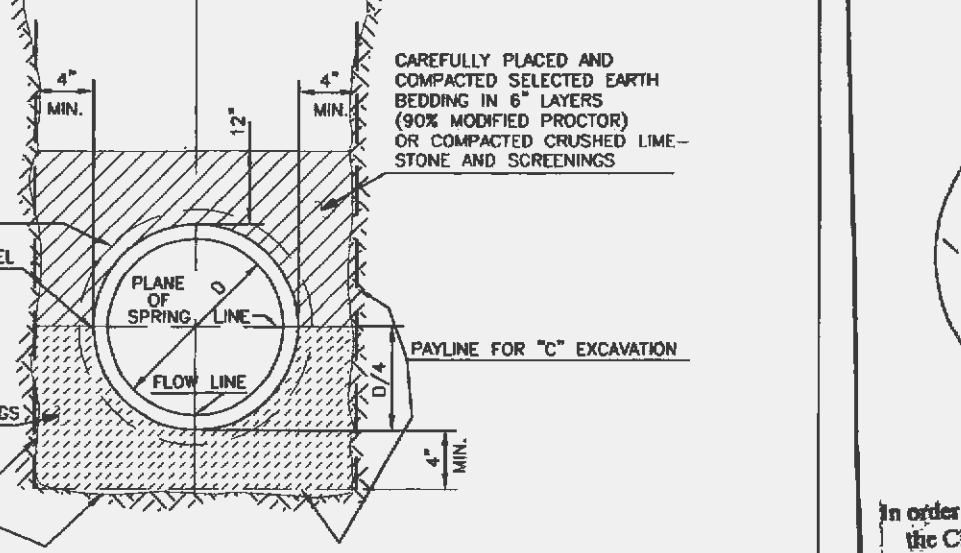
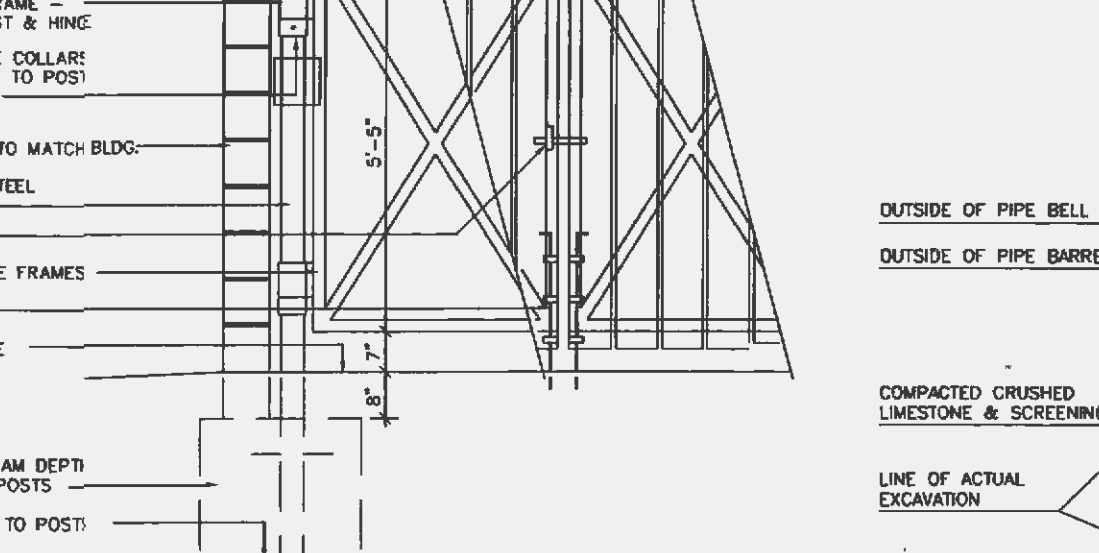
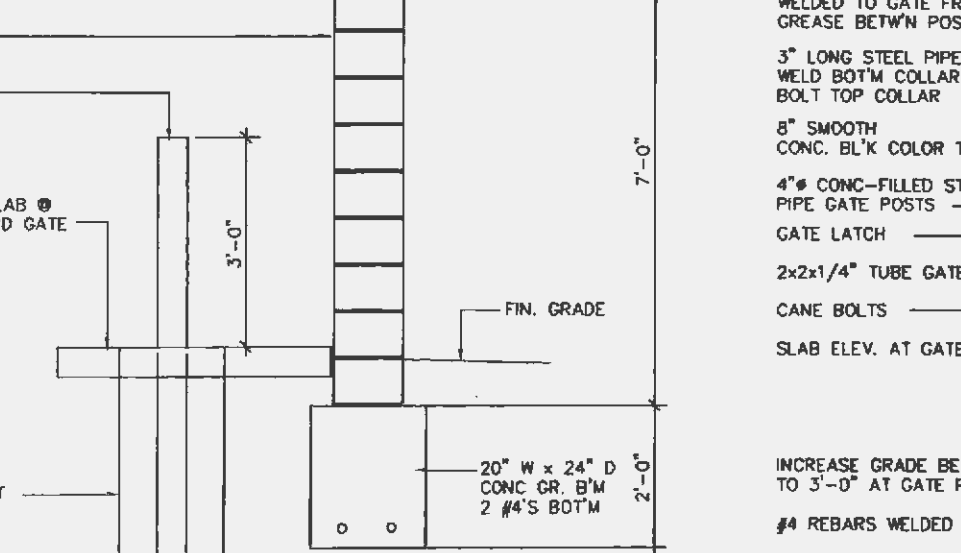
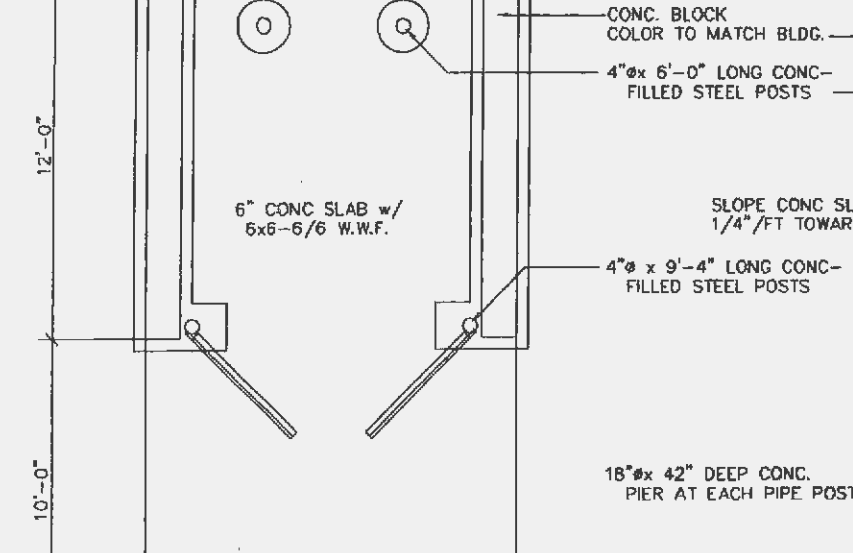
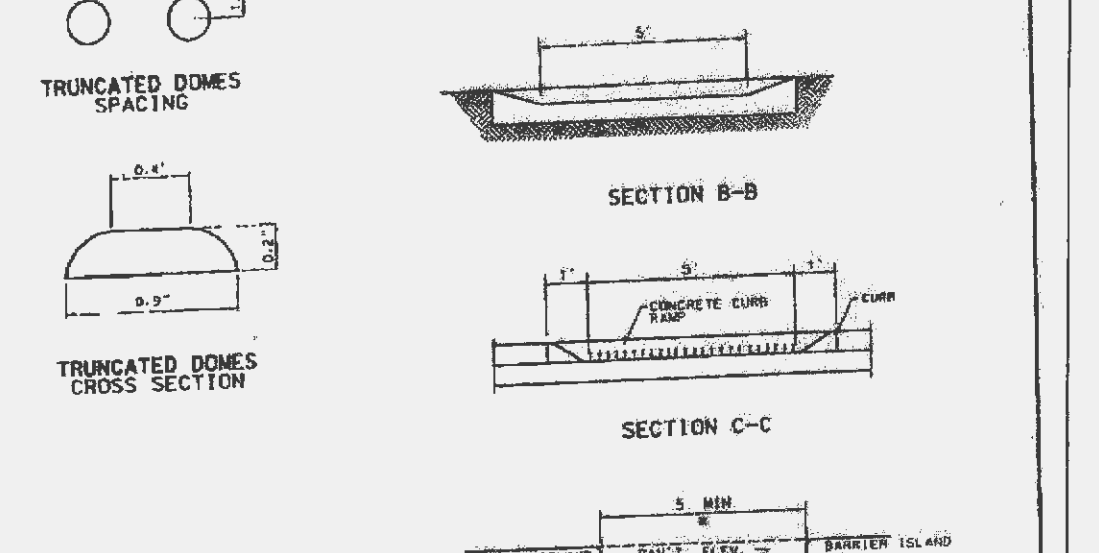
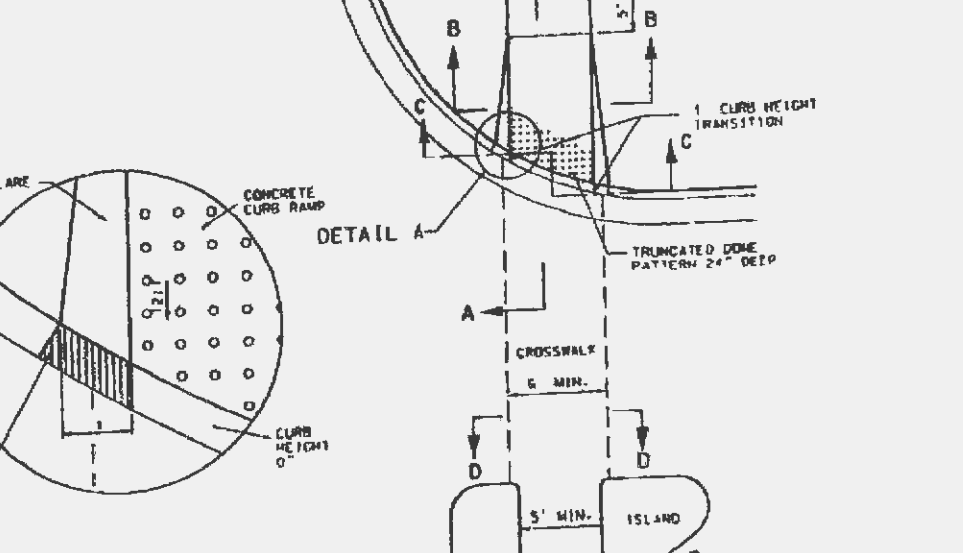
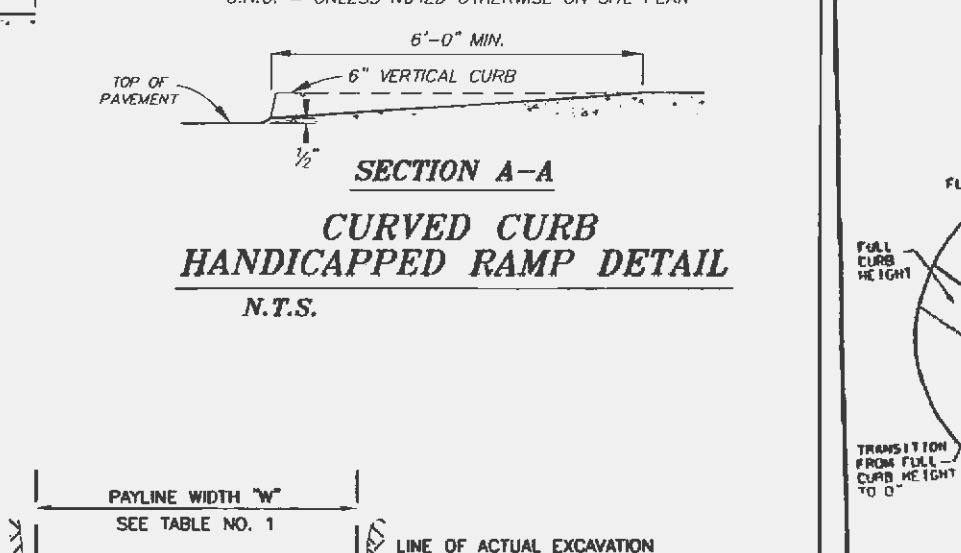
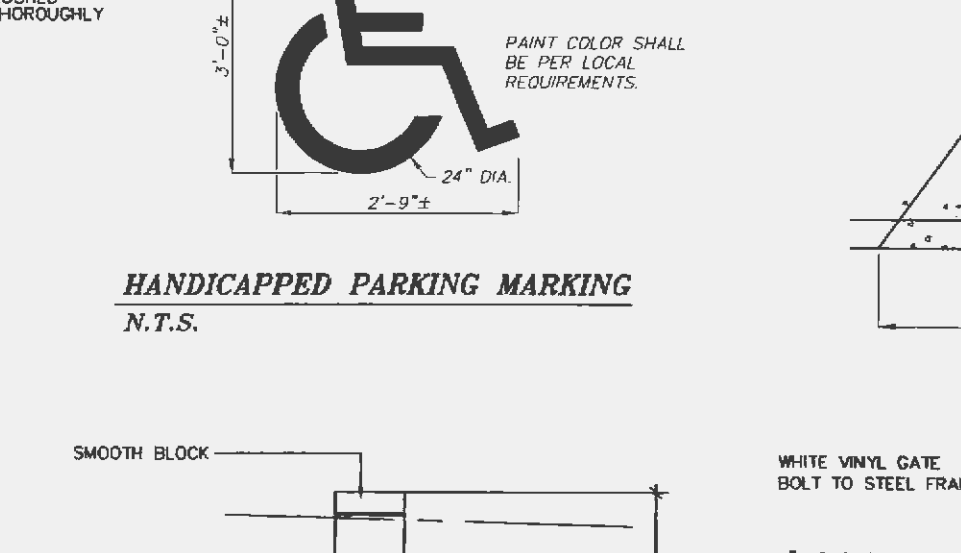
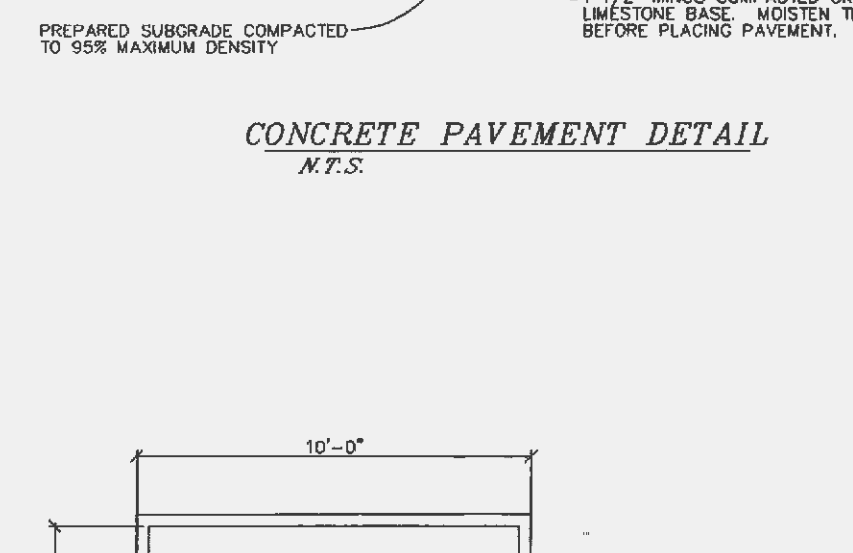
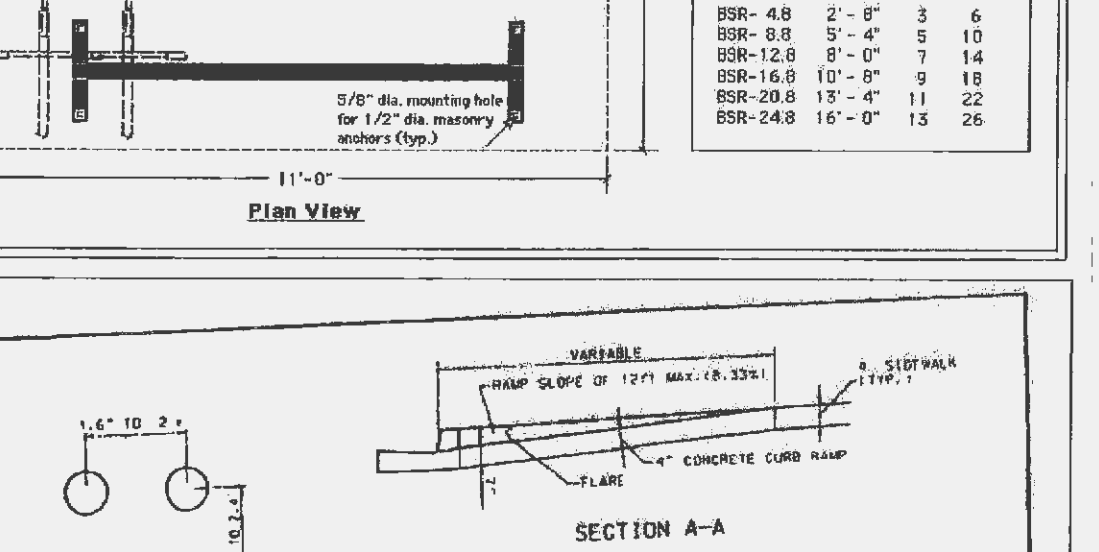
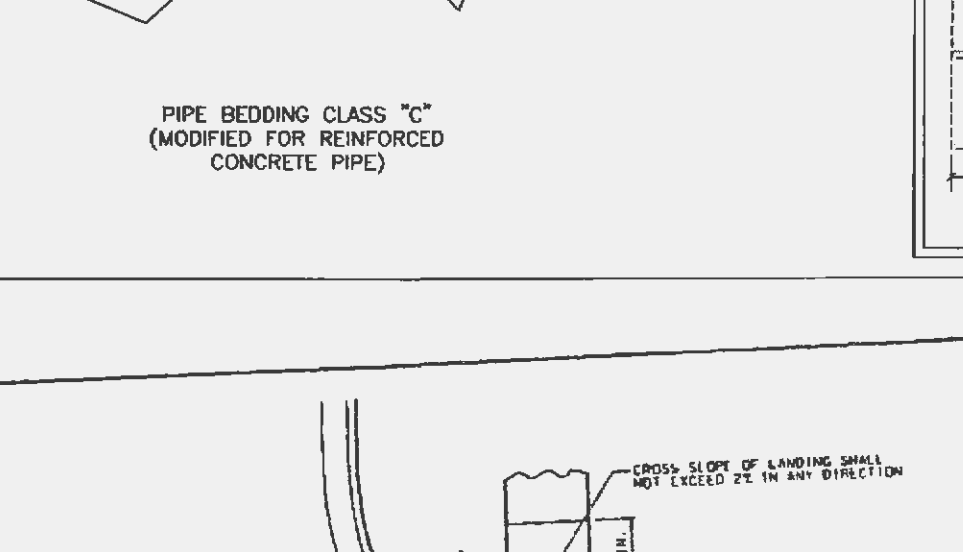
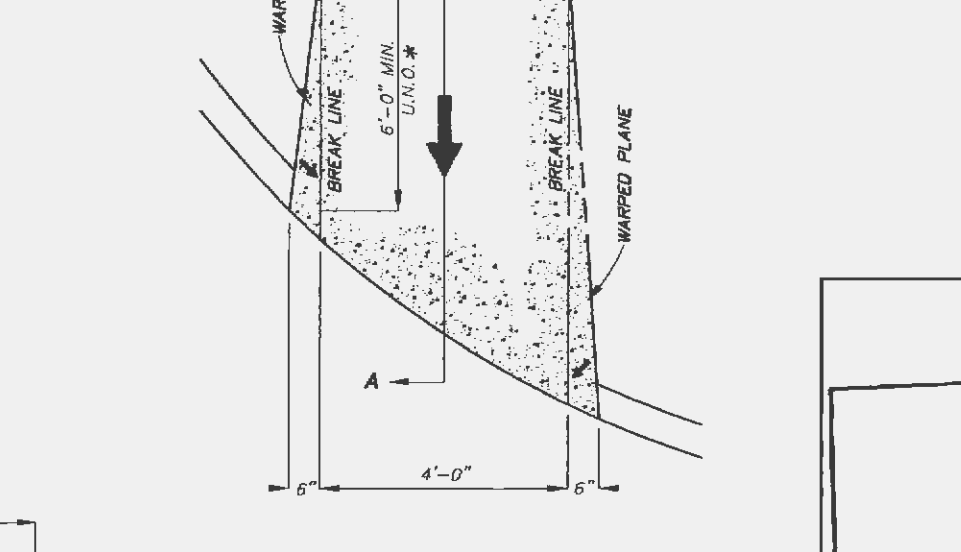
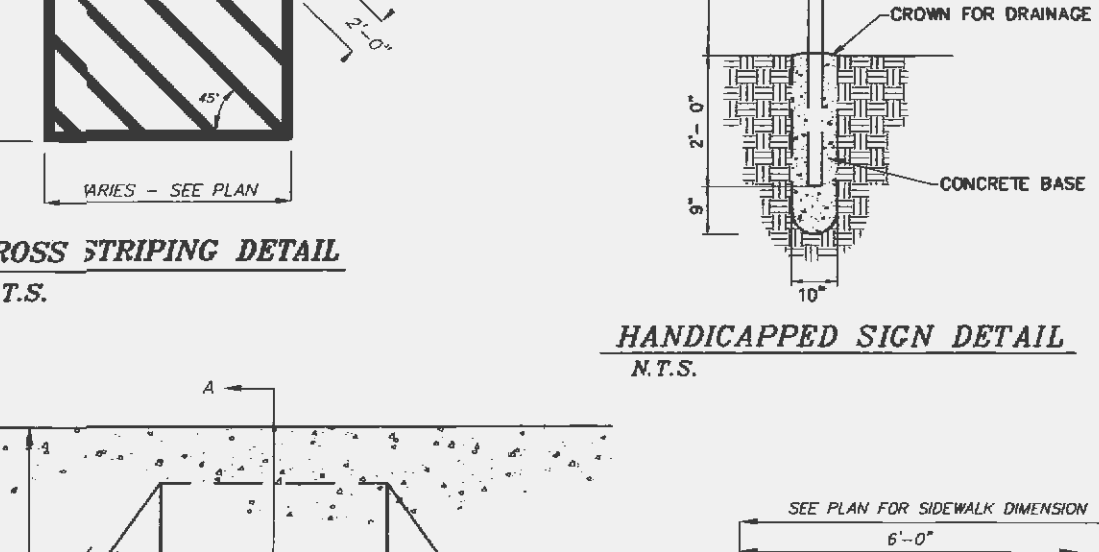
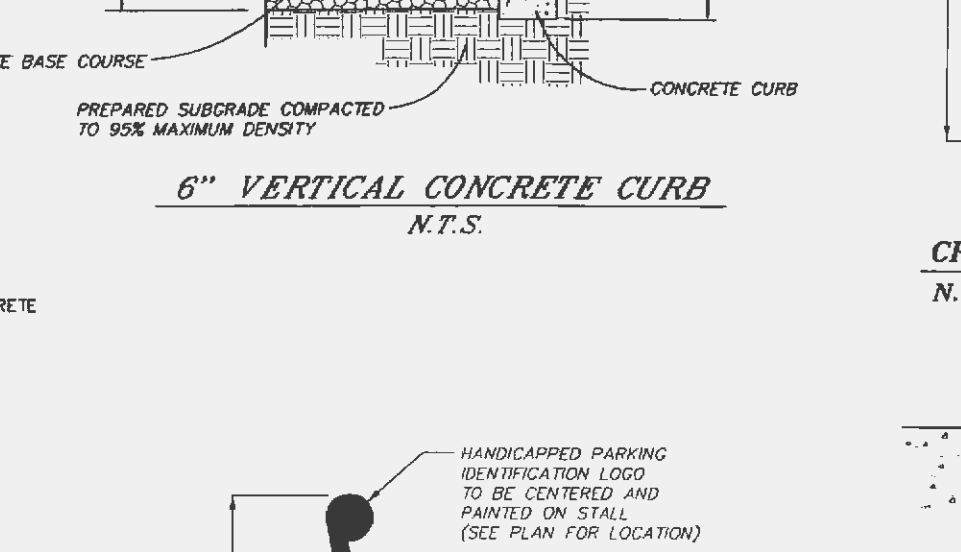
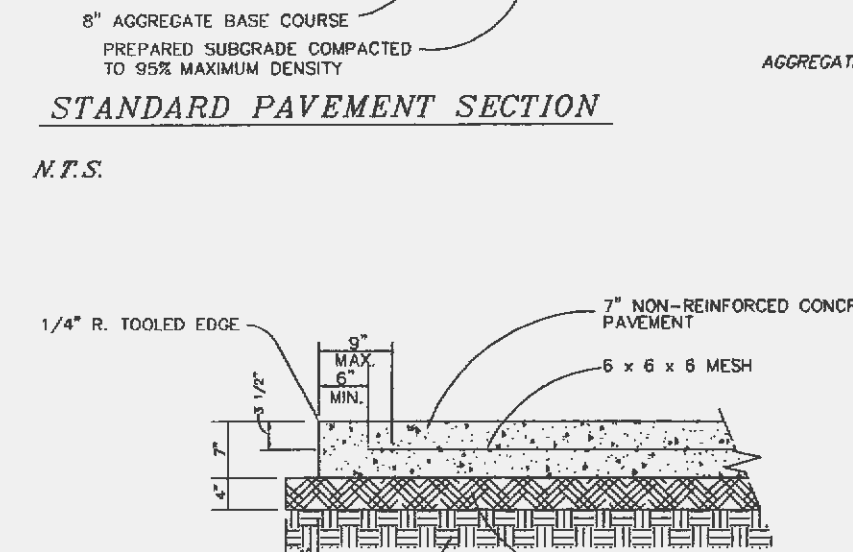
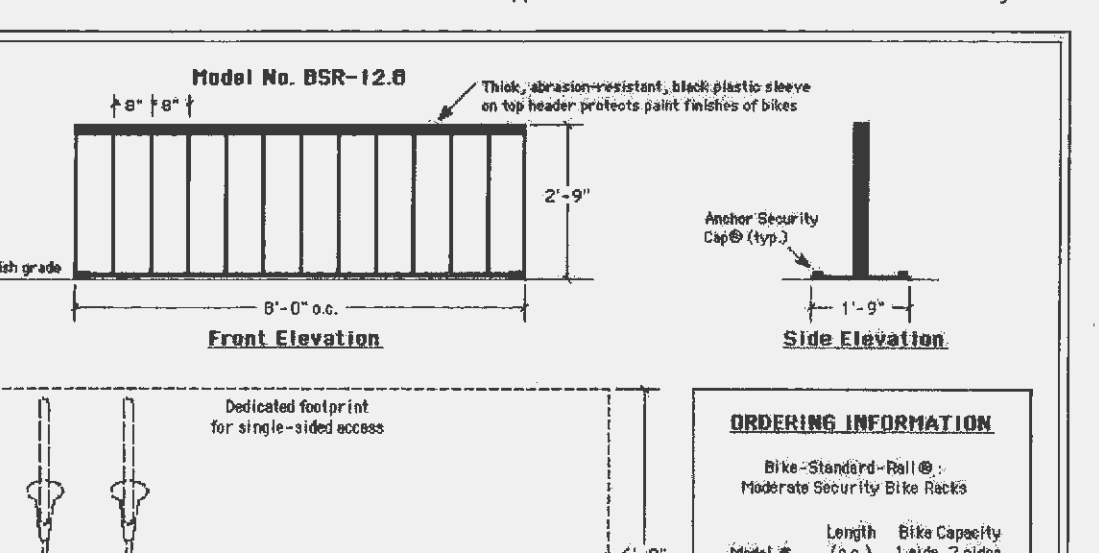
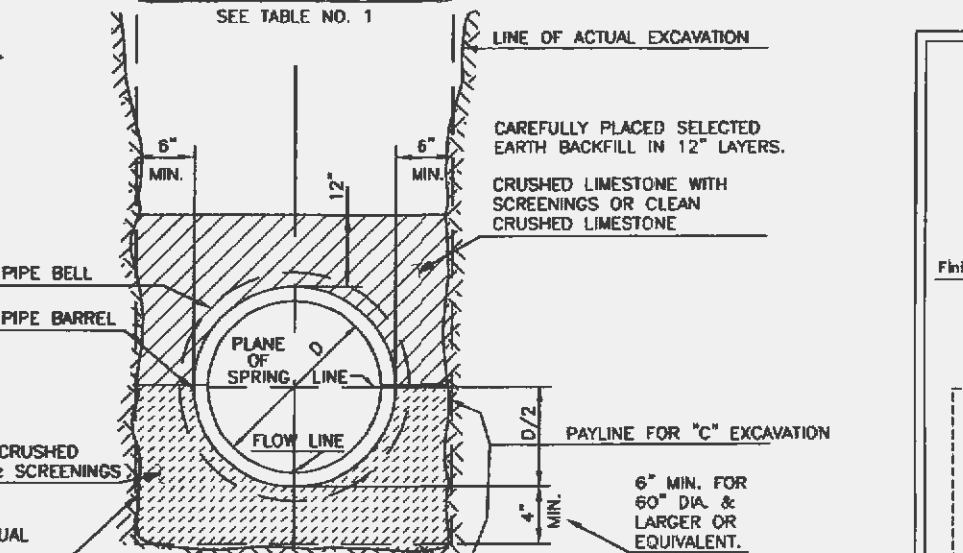
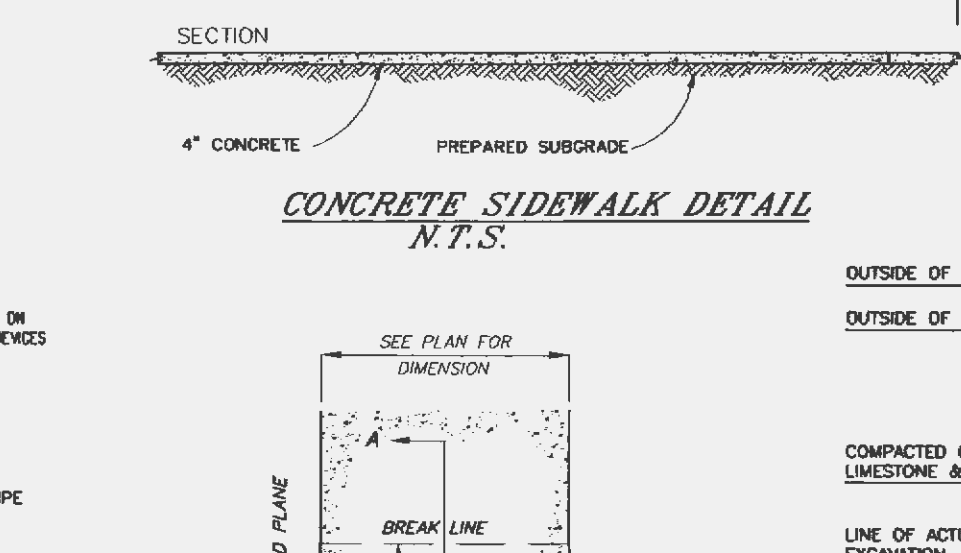
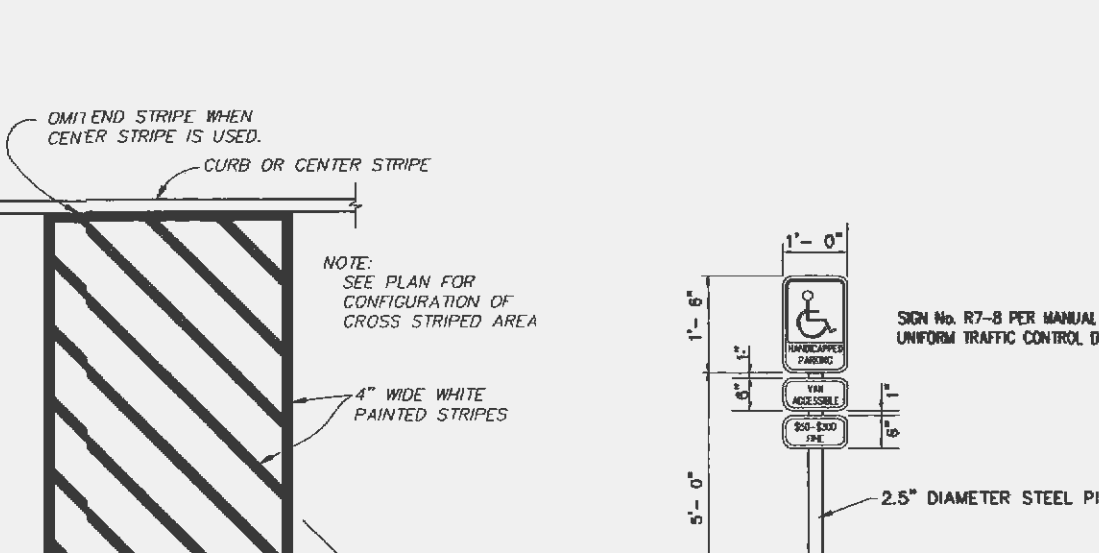
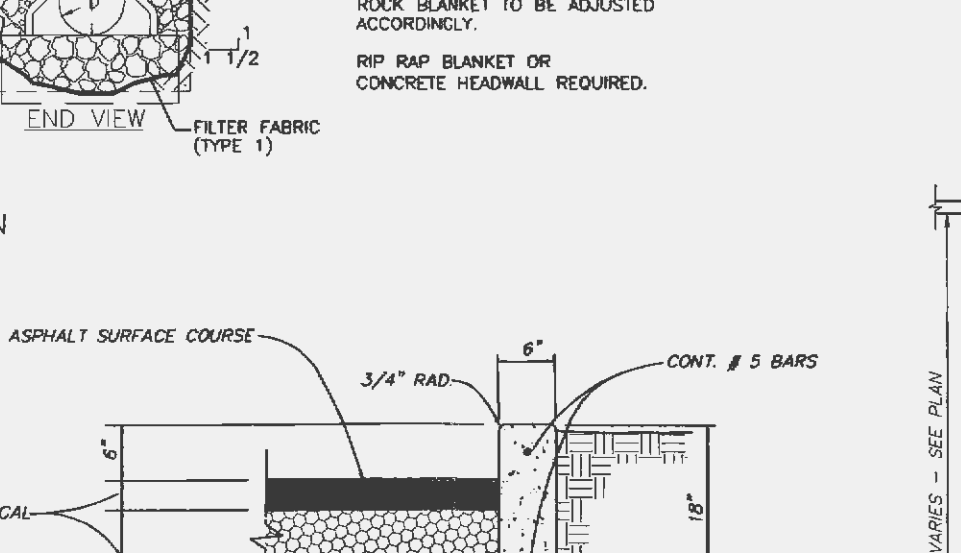
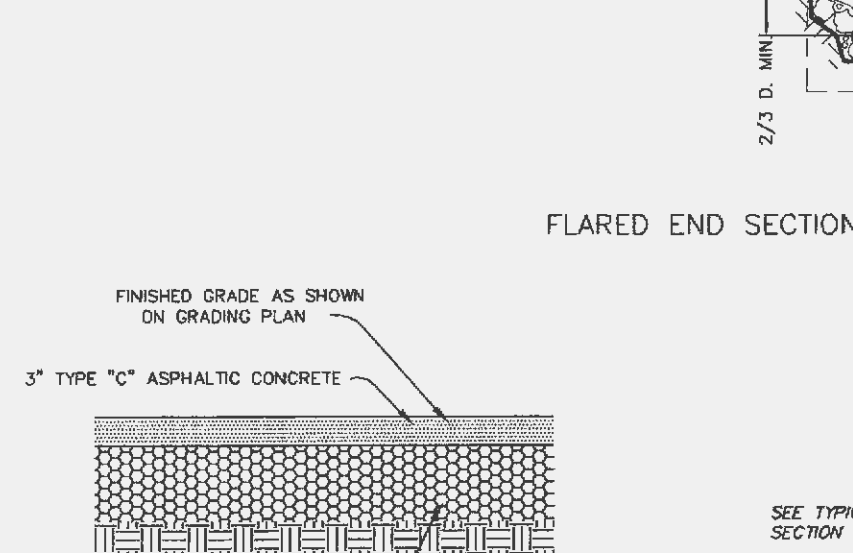
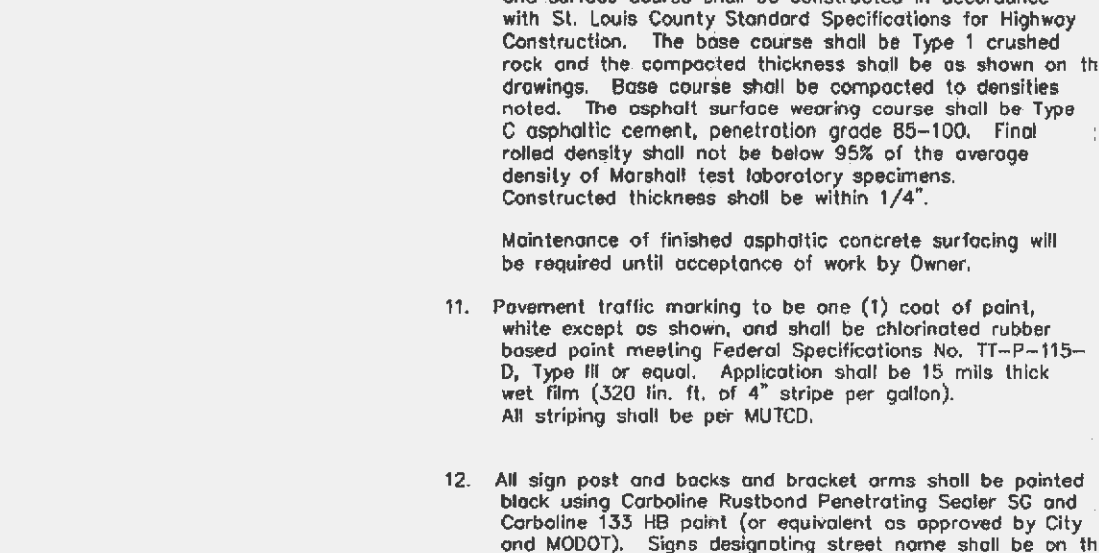
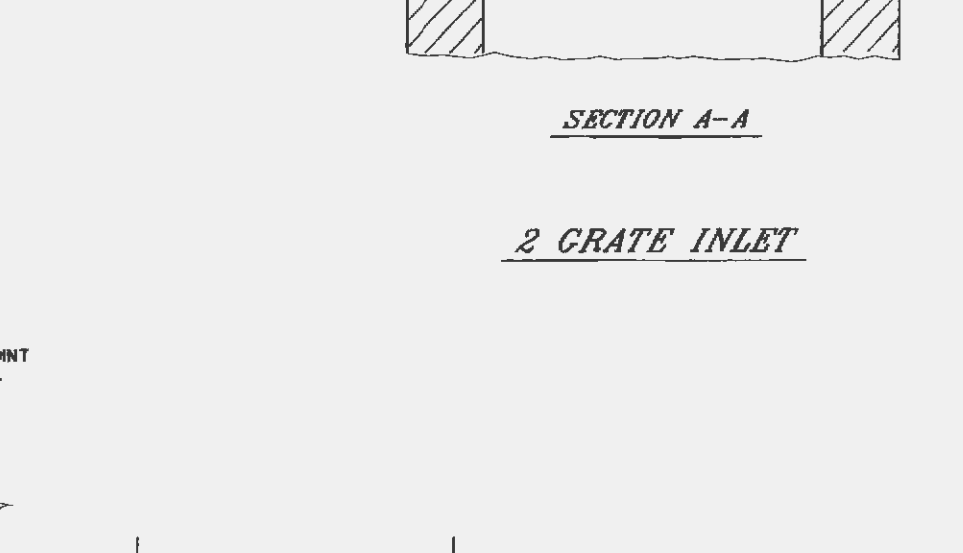
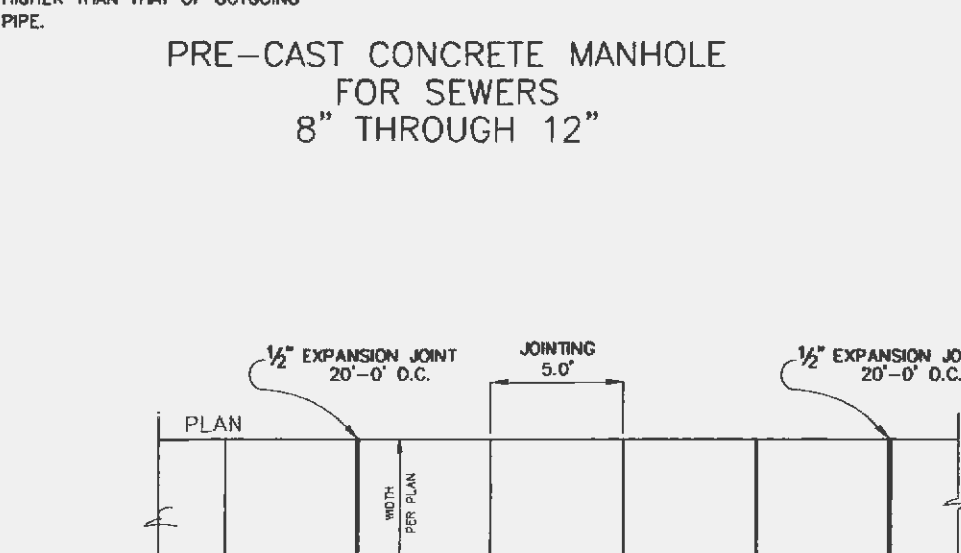
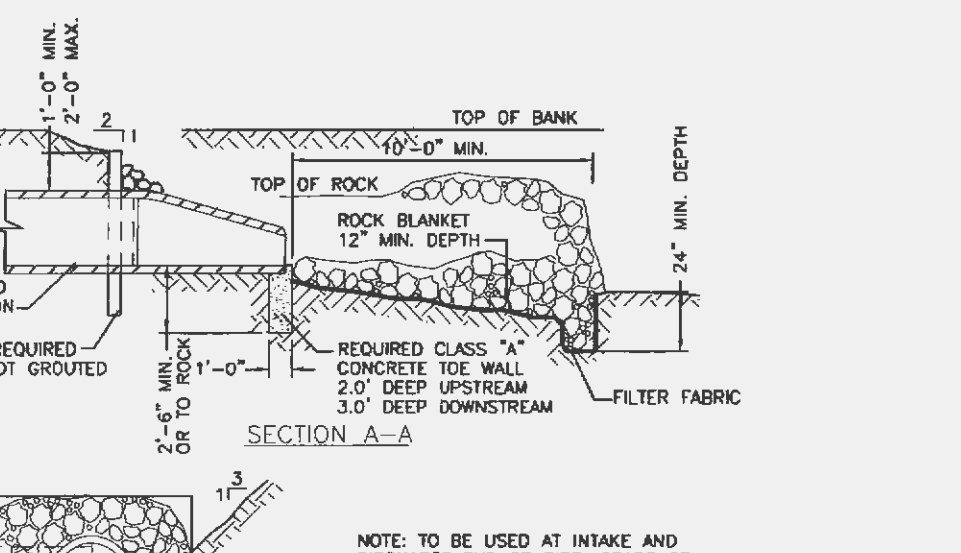


TABLE NO. 1  
PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE

Payline Width of Trench (Feet)	Pay-volume of Concrete Encasement (cu ft. per ft.)
4	28
6	28
8	28
10	28
12	28
15	32
18	35
21	39
24	42
27	45
30	49
33	53
36	56
39	60
42	63
45	67
48	70
51	74
54	77
57	81
60	84
63	87
66	91
69	94
72	98
75	101
78	105
81	109
84	112
87	116
90	119
93	123
96	126
99	130
102	134
105	137
108	141
111	144
114	147
117	151
120	154
123	158
126	161
129	165
132	168
135	172
138	175
141	179
144	182



- SITE NOTES
- All dimensions shown are to face of curb unless noted otherwise.
  - DO NOT SCALE DRAWINGS. USE DIMENSIONS AS SHOWN.
  - Additional siltation control may be required as directed by the City of O'Fallon.
  - Storm sewers are to be private unless otherwise noted.
  - Contractor to notify the engineer if discrepancies are found in the field compared to the design plans.
  - Reference points, such as survey monuments, bench marks, stakes, etc., shall be preserved, but if disturbed or destroyed, shall be replaced as directed, at the expense of the contractor.
- All concrete and asphalt concrete pavement to be removed shall be sawcut on a straight line along the contact line with the existing pavement to remove the concrete works and curbs to be removed shall be sawcut at the nearest construction or expansion joint.
- No work shall be done which will affect existing utilities prior to having ascertained that the utilities have been properly copped, plugged, or otherwise abandoned in a manner acceptable to the affected utility company. The contractor shall be notified prior to the commencement of any work which will affect any existing utility. Removal of obstructions by the contractor are to be initiated and coordinated by the Contractor.
- All site construction and sewer construction to be per City of O'Fallon standards and specifications.
  - Building dimensions as shown are to outside face of building and are per architectural plans received during August 2005. Set architectural plans for locations of building area walls, walls, etc. If overall building dimensions vary from those shown on these plans, contact the engineer prior to proceeding with site construction.
  - Conduct operations to prevent injury to adjacent buildings, structures, other facilities and persons. Signs, lights, and barricades shall be installed at all locations as necessary to guard against accident. Promptly repair damages caused to facilities by operations, as directed by the engineer and at no cost to the Owner.
  - New pavement - The Contractor shall fine grade and proof roll the subgrade to the elevations as shown. Subgrade shall be compacted to densities noted. The base course and surface course shall be constructed in accordance with St. Louis County Standard Specifications for Highway Construction. The base course shall be Type 1 crushed rock and the compacted thickness shall be as shown on the drawings. Base course shall be compacted to densities noted. The asphalt surface wearing course shall be Type C asphaltic cement, penetration grade 85-100. Final rolled density shall not be below 95% of the average density of Marshall test laboratory specimens. Constructed thickness shall be within 1/4". Maintenance of finished asphaltic concrete surfacing will be required until acceptance of work by Owner.
  - Pavement traffic marking to be one (1) coat of paint, white except as shown, and shall be chlorinated rubber based joint meeting Federal Specifications No. TT-P-115-D, Type II or equal. Application shall be 15 mils thick wet film (320 lin. ft. of 4" stripe per gallon). All striping shall be per MUTCD.
  - All sign post and backs and bracket arms shall be painted black using Corboline Rubbond Penetrating Sealer 50 and Corboline 135 HB paint (or equivalent as approved by City and MODOT). Signs designating street name shall be on the opposite side of the street from traffic control signs.

**PICKETT RAY & SILVER**  
CIVIL ENGINEERS  
PLANNERS  
LAND SURVEYORS

393 Mid Rivers Mill Drive  
St. Peters, MO 63376  
Phone (636) 397-1211  
Fax (636) 397-1104

**SSM HEALTHCARE**  
IMPROVEMENT PLANS  
OF FALLON, MO

Prepared For:  
**LILLIBRIDGE**

REVISIONS  
NO. DATE REVISION PER CITY COMMENTS

ENGINEERS AUTHENTICATION  
The responsibility for professional engineering liability on this project is hereby limited to the set of plans authorized by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthenticating.

PICKETT RAY & SILVER, INC.  
STATE OF MISSOURI  
STEVE MARION  
REGISTERED PROFESSIONAL ENGINEER  
NUMBER PE-00007887

DRAWN J.M. WINTERS DATE 10.11.06  
CHECKED S.D. MARION DATE 10.11.06  
PROJECT # 91090.LILB.02C  
TASK # 2 FIELD BOOK 450E

SSM HEALTHCARE  
IMPROVEMENT PLANS  
CONSTRUCTION DETAILS

SHEET 9 OF 10  
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P&Z APPROVAL 10.05.06  
FILE #2606.01