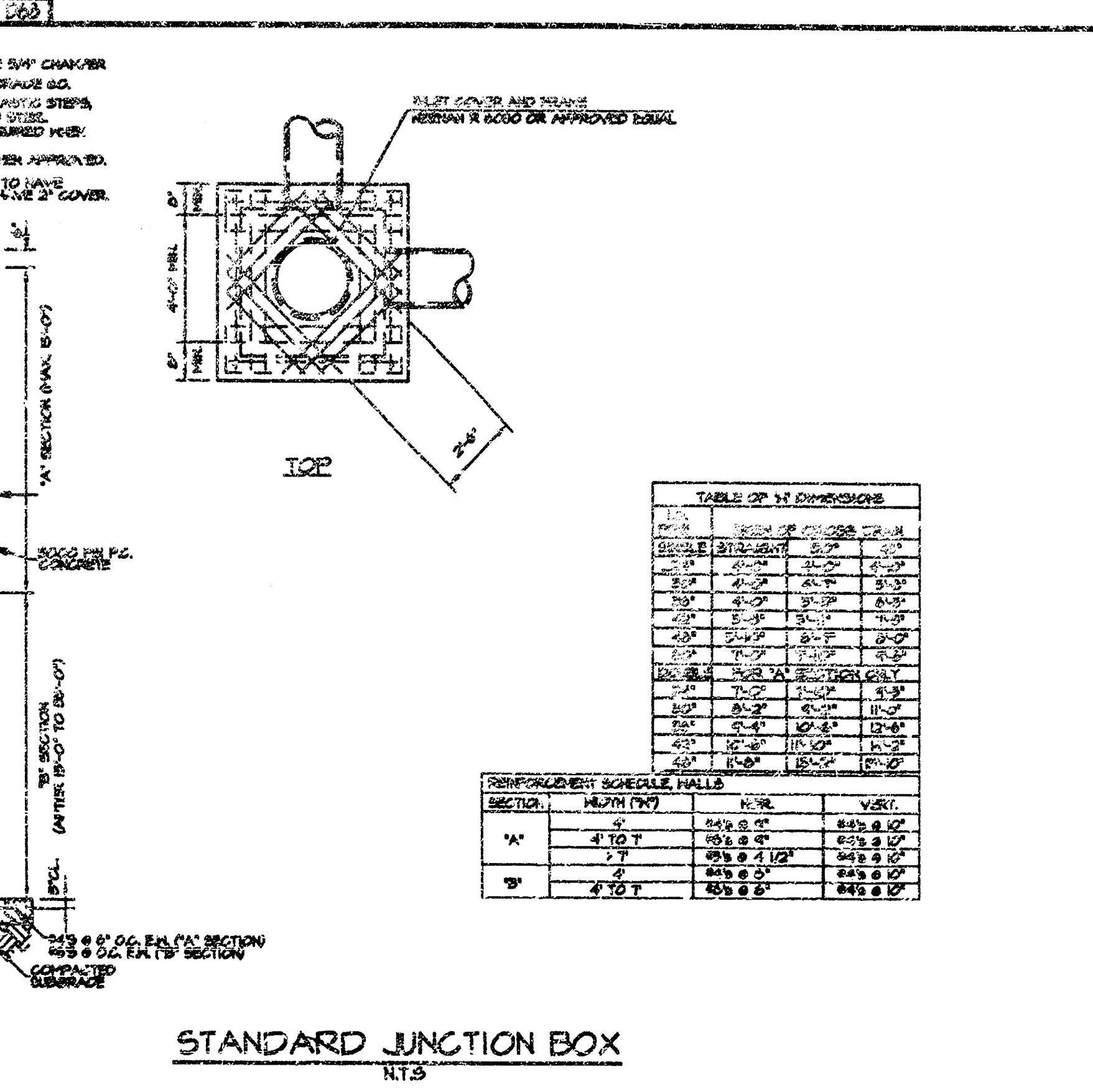
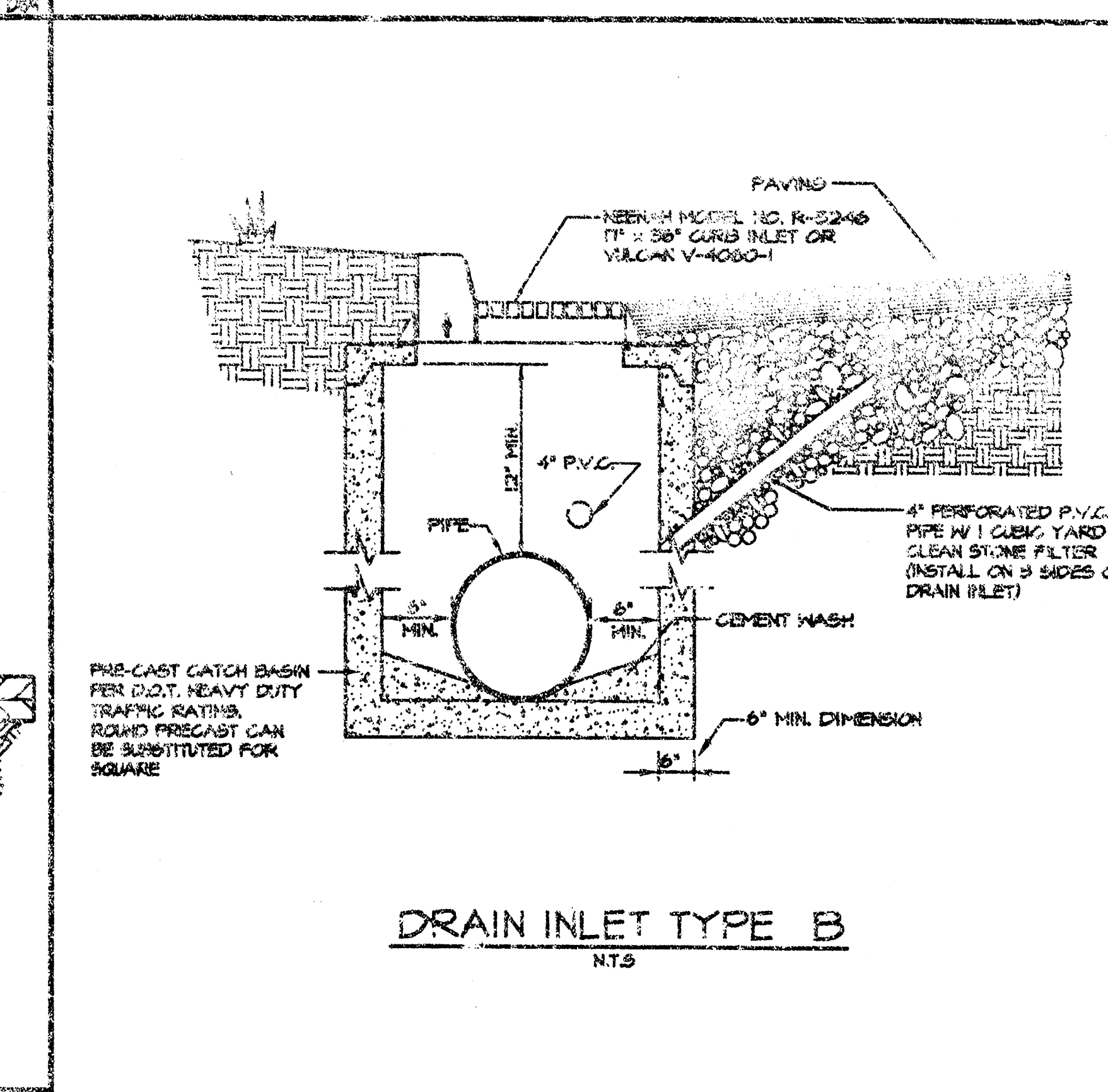
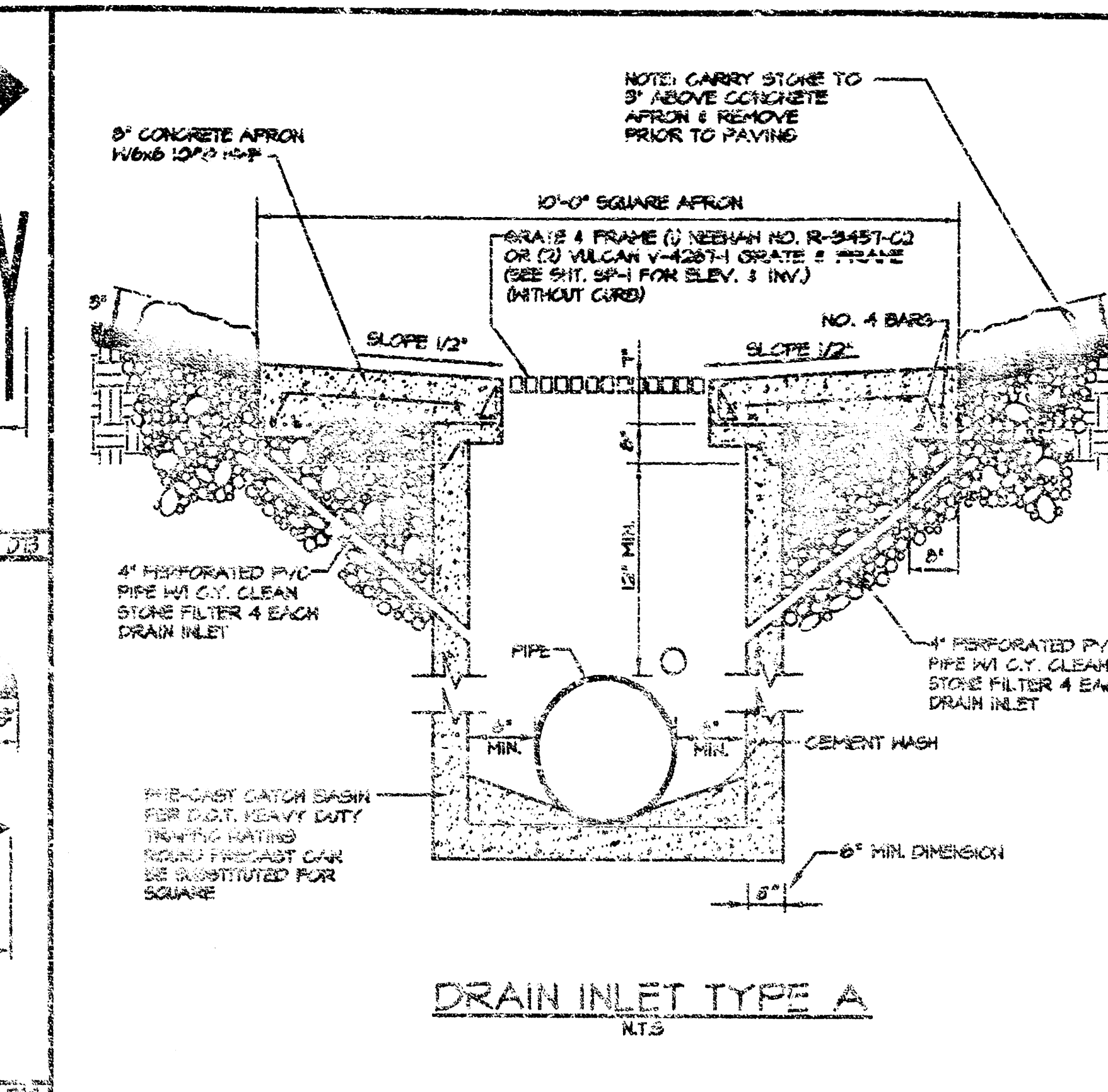
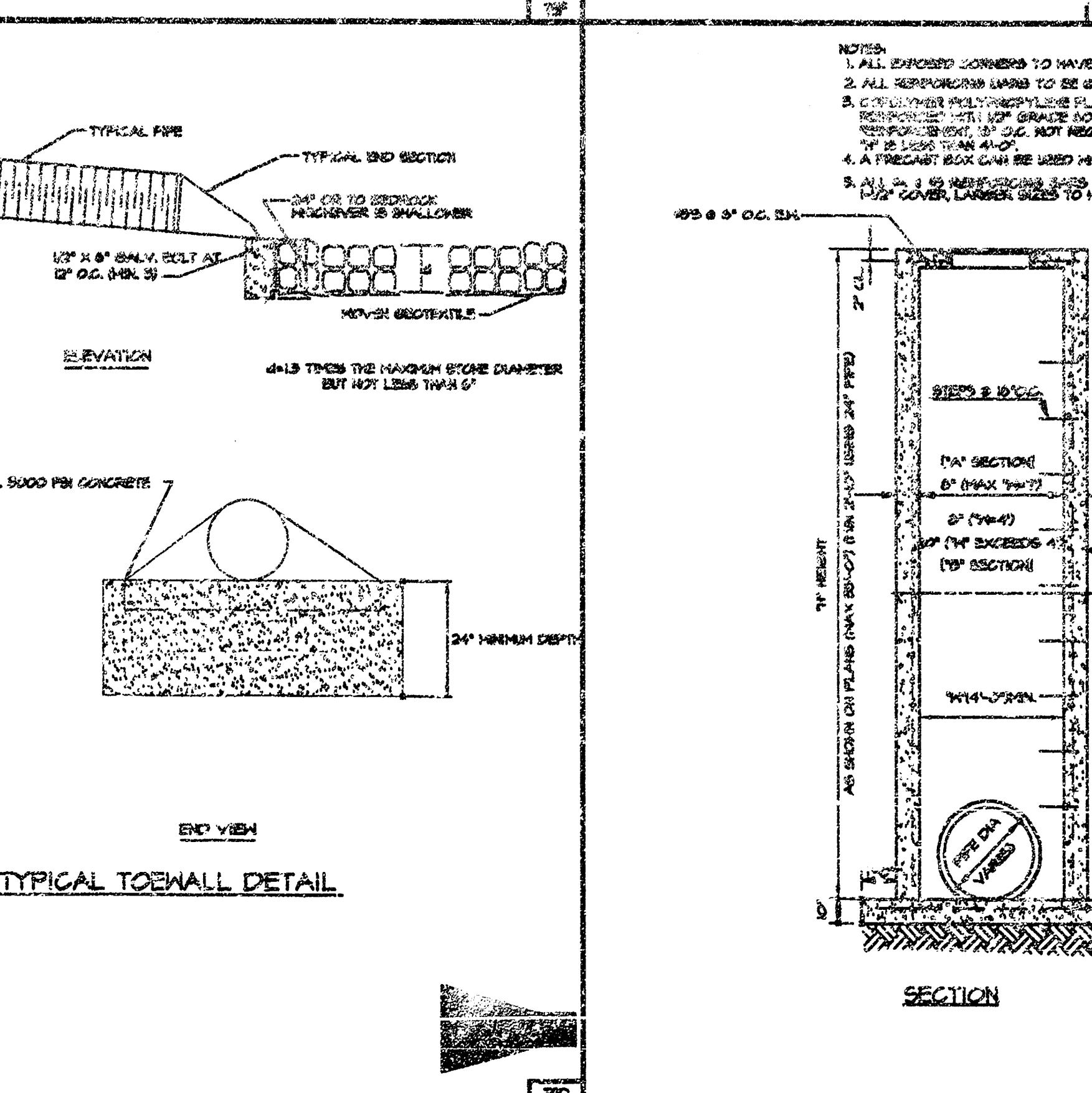
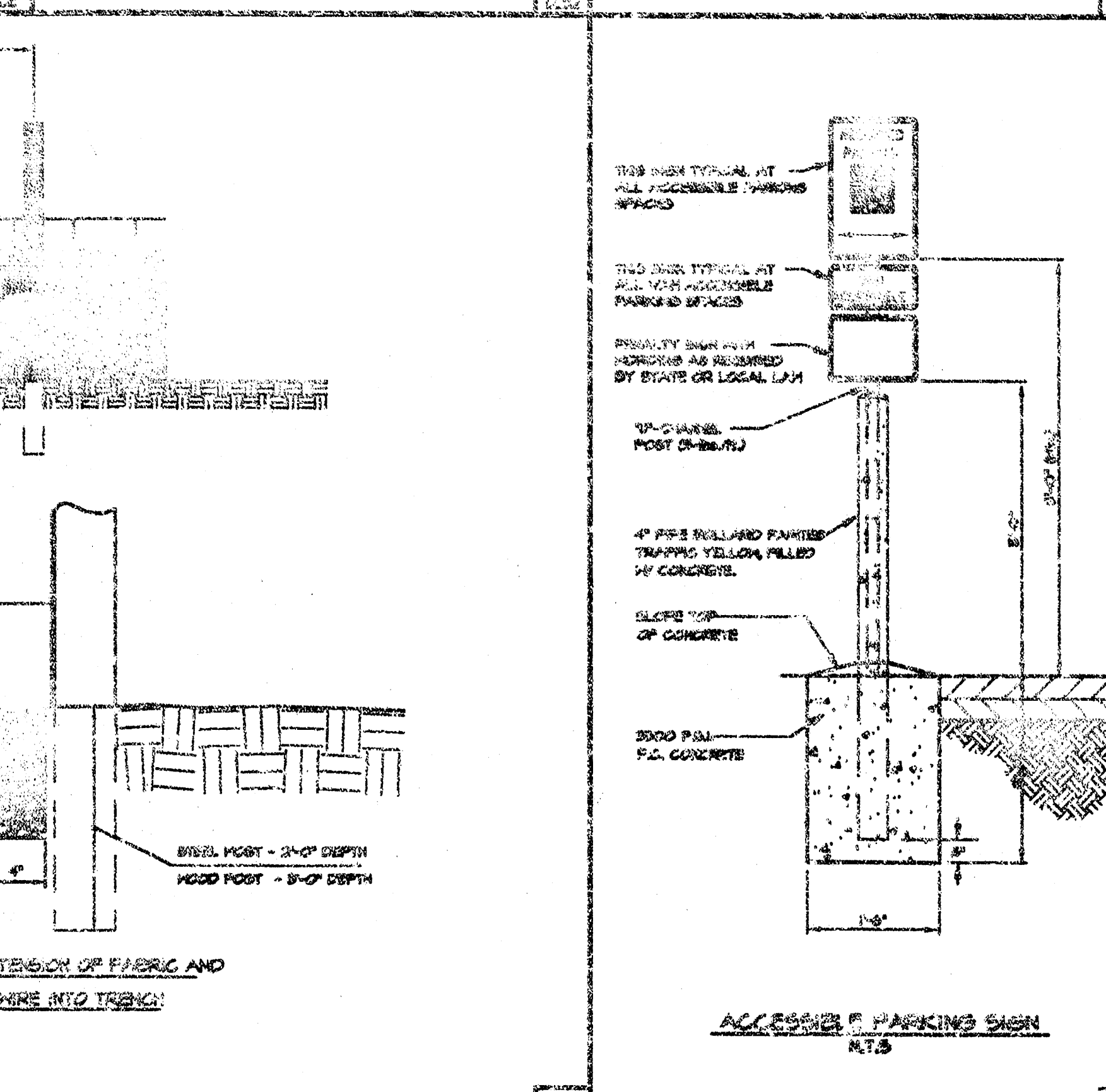
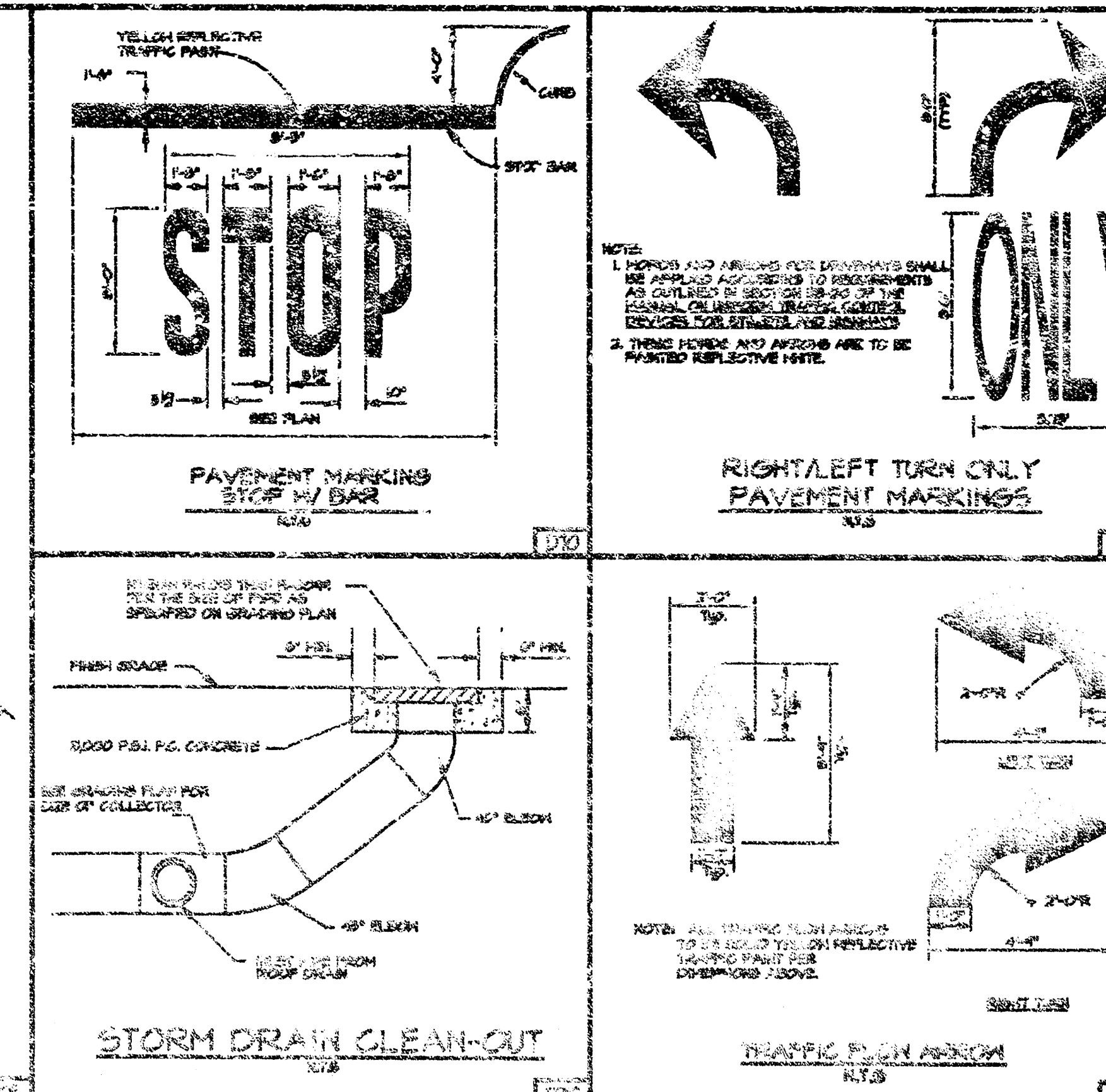
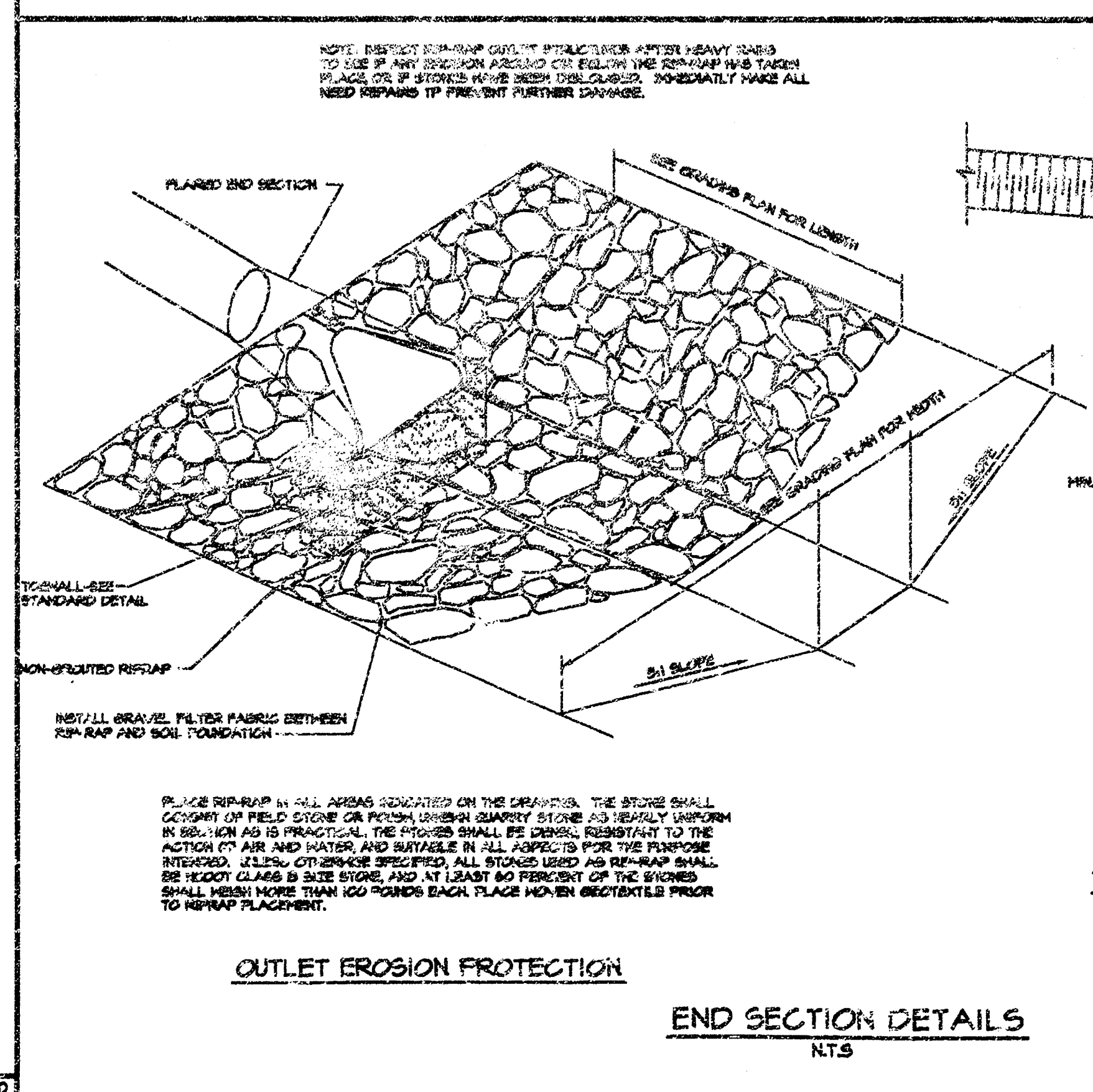
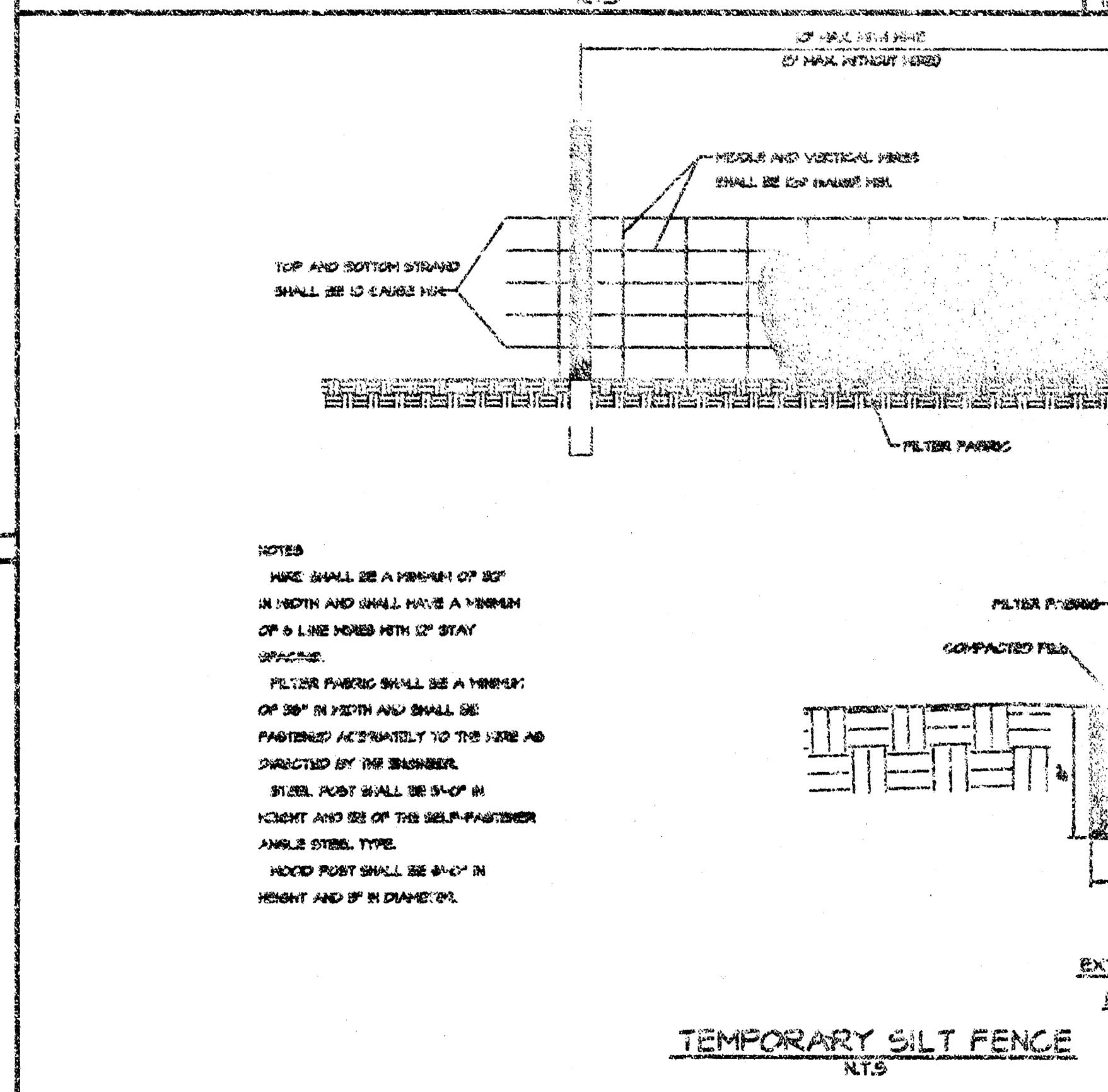
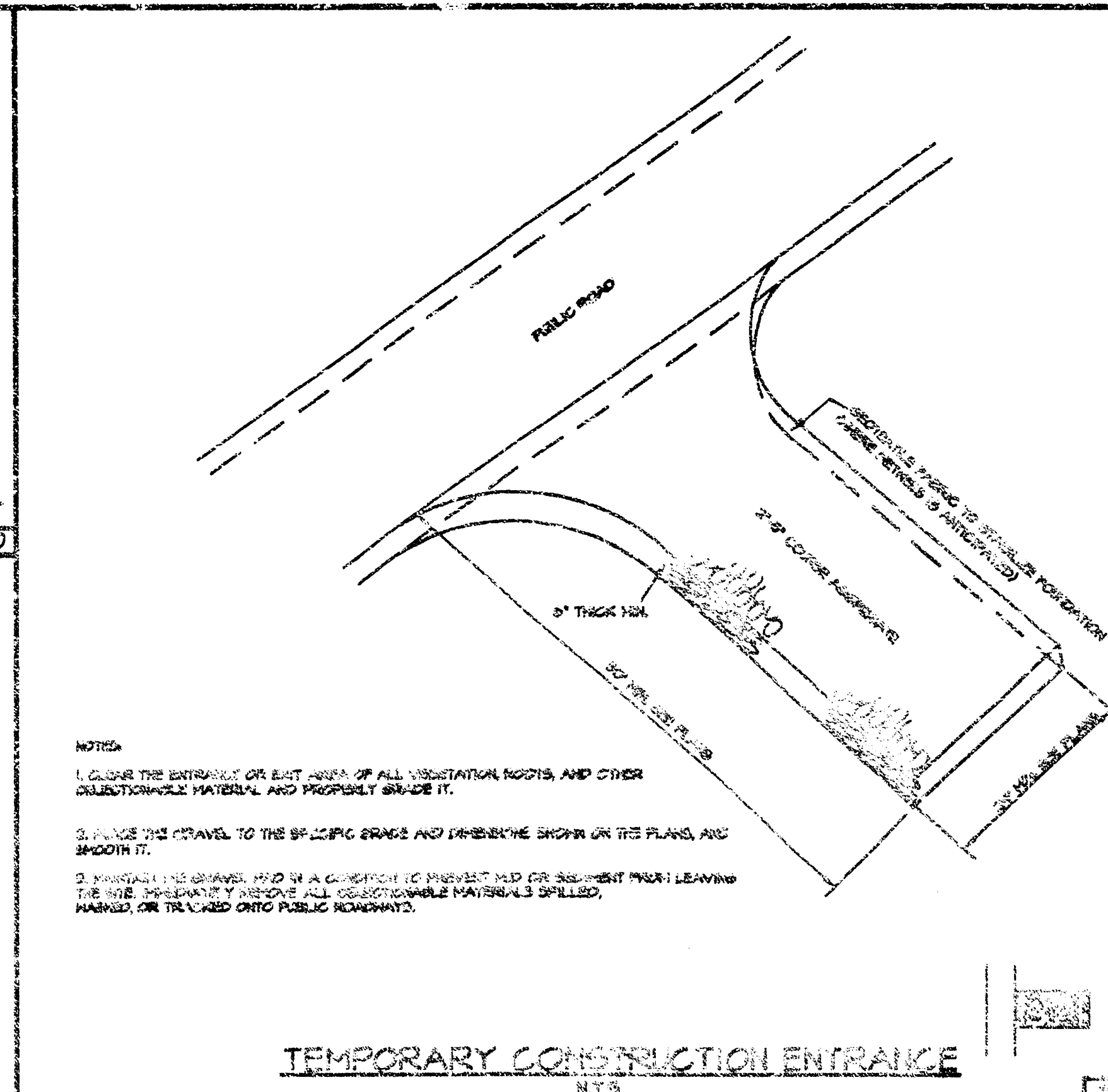
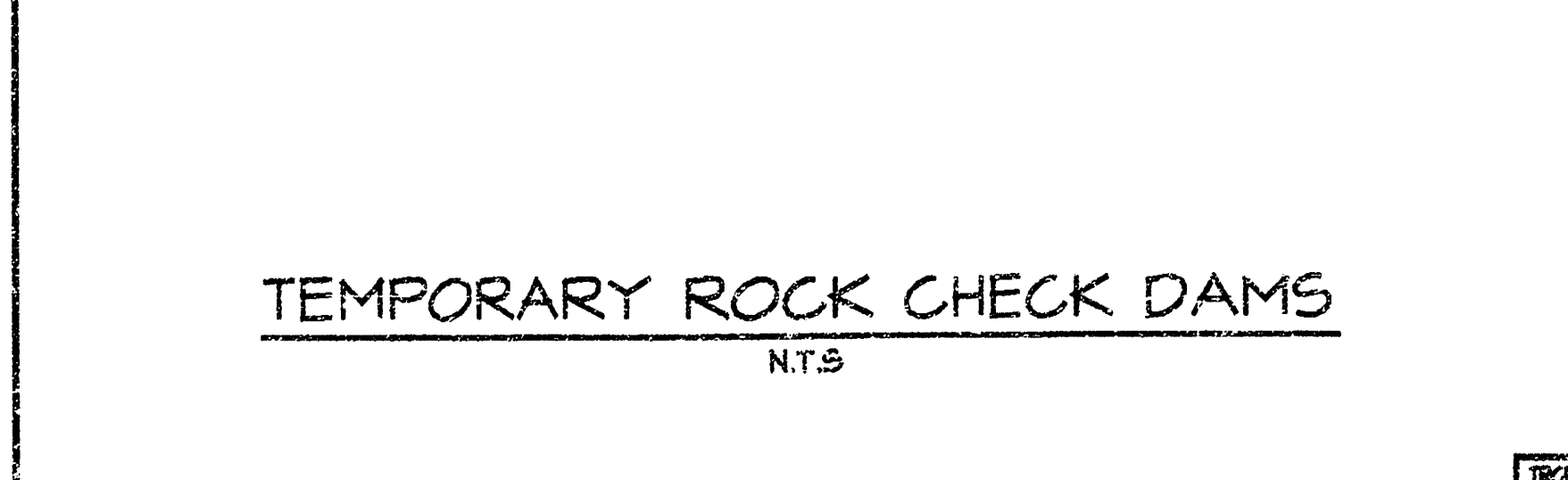
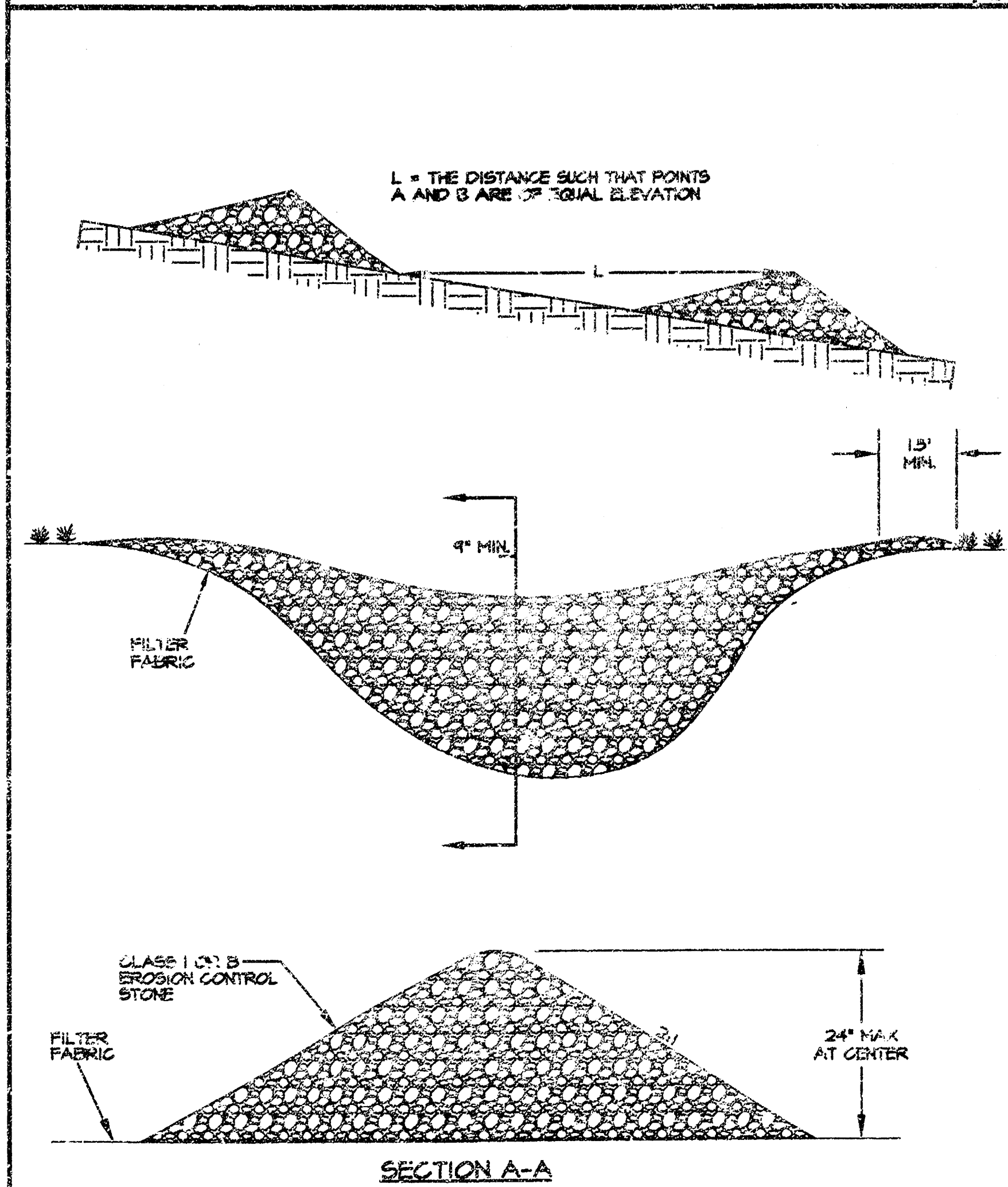
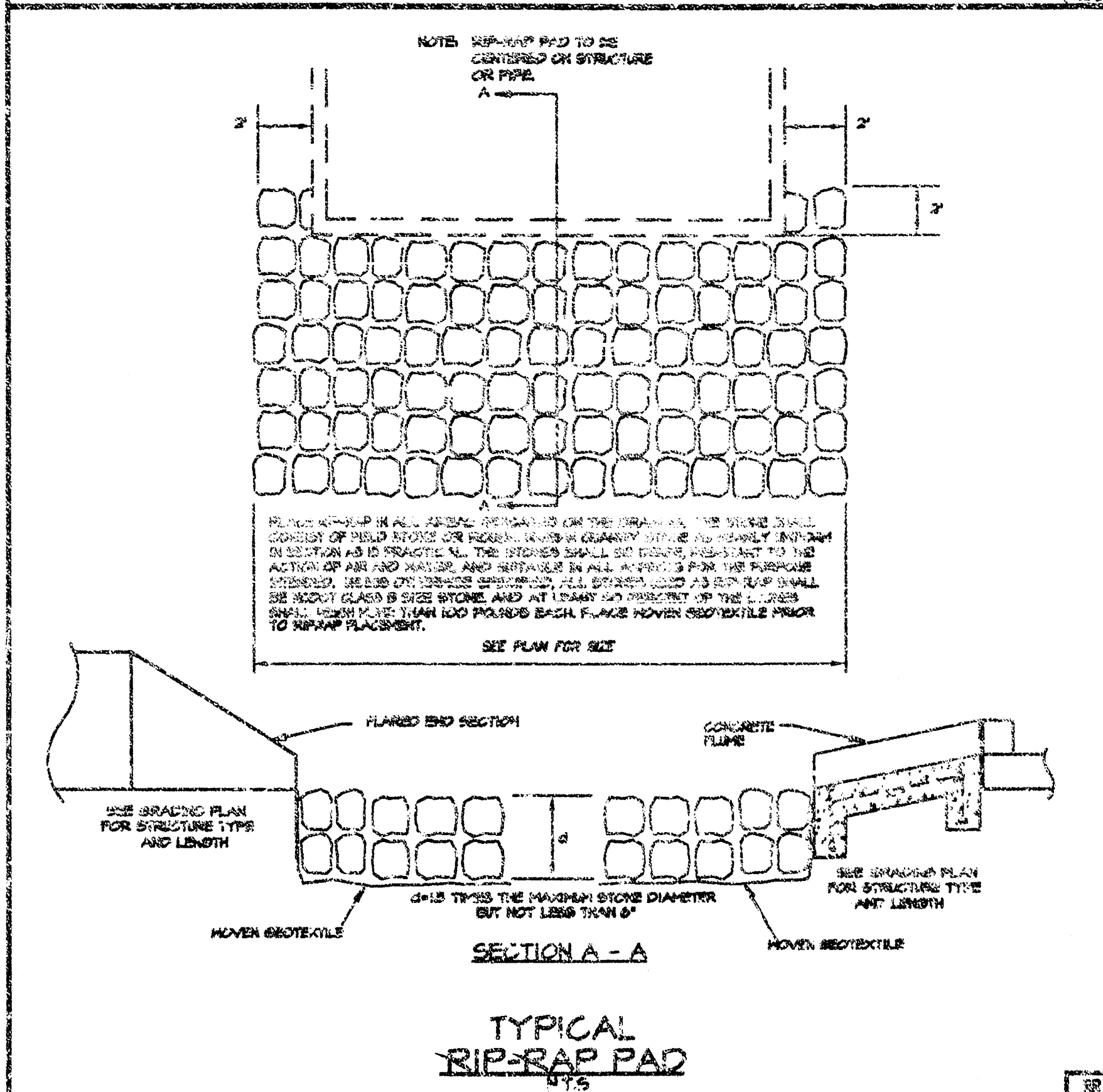
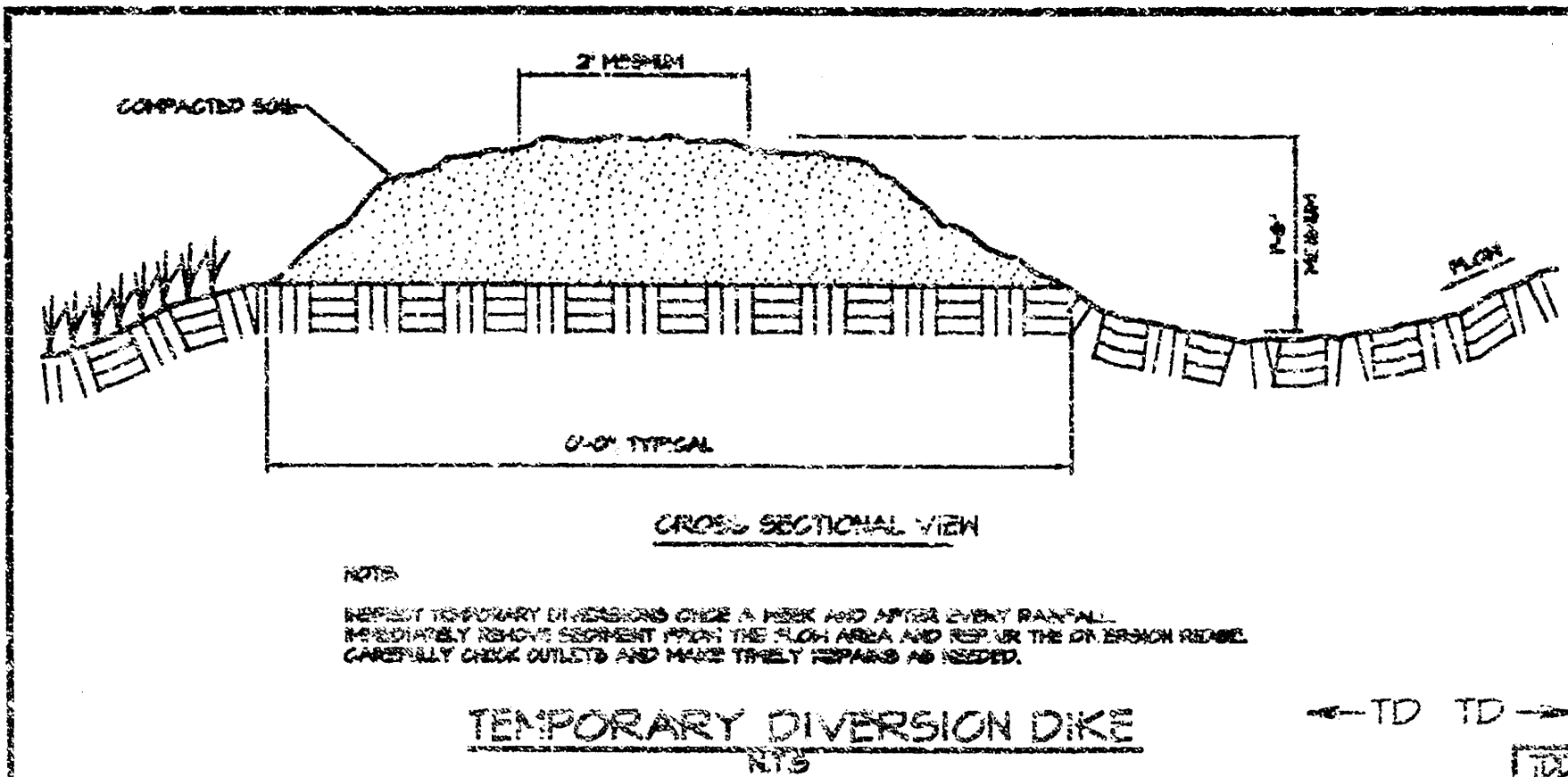




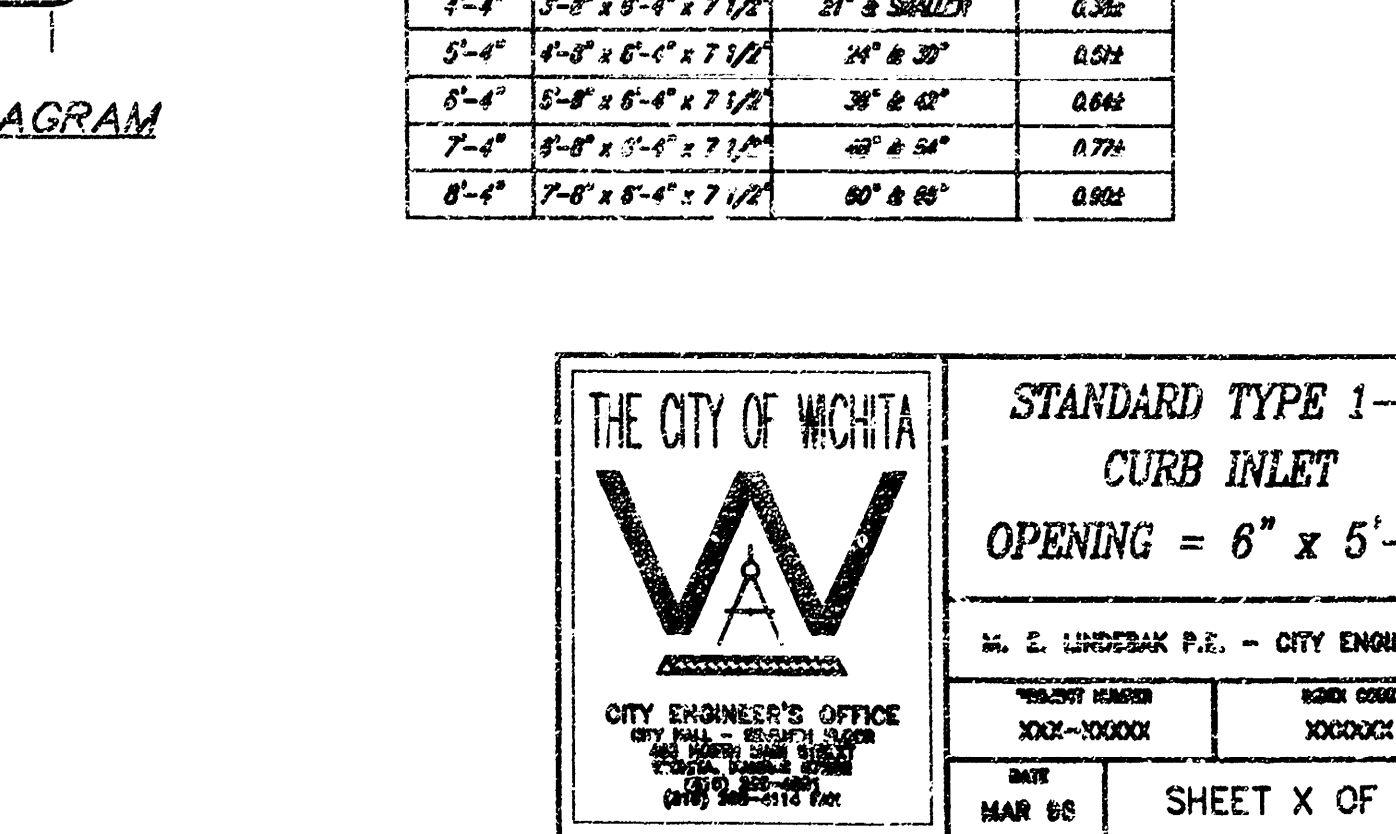
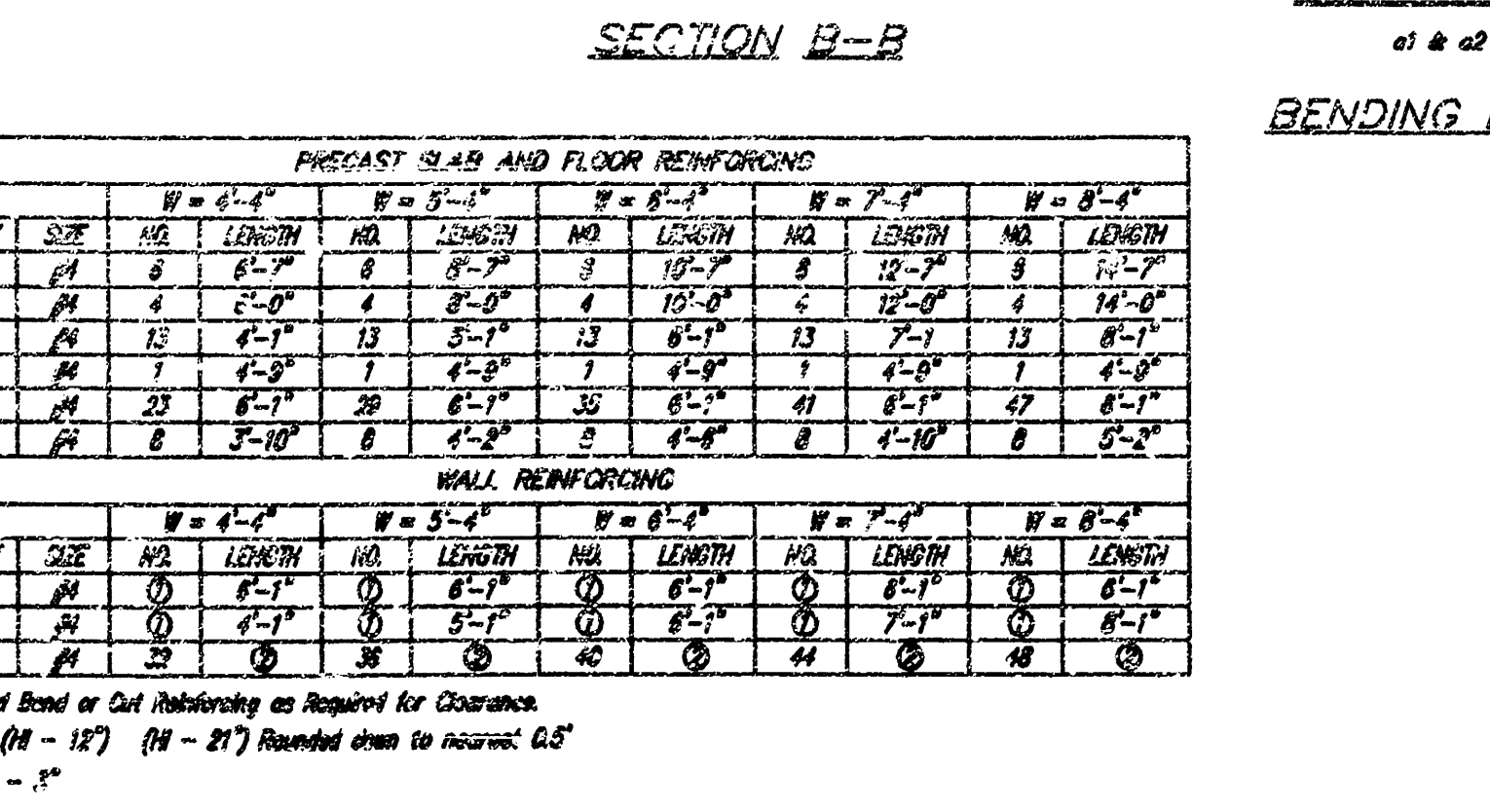
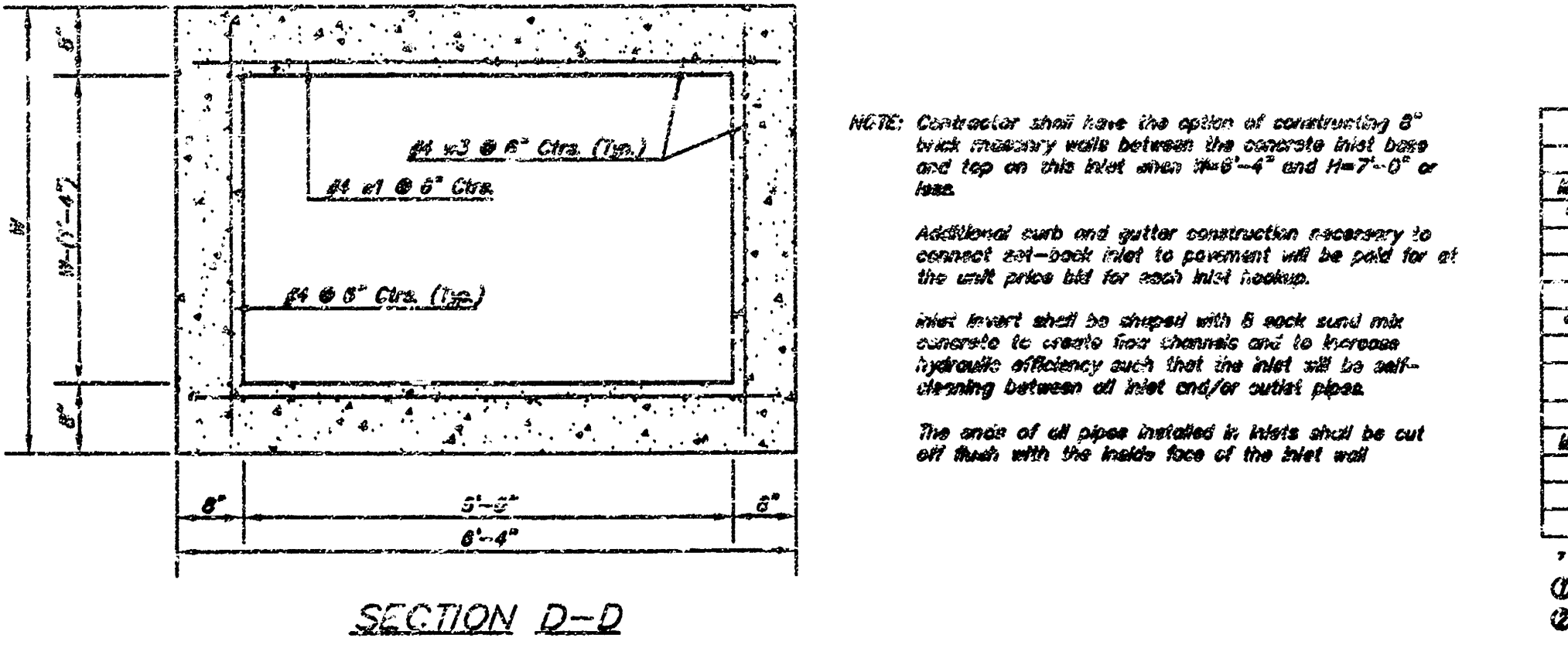
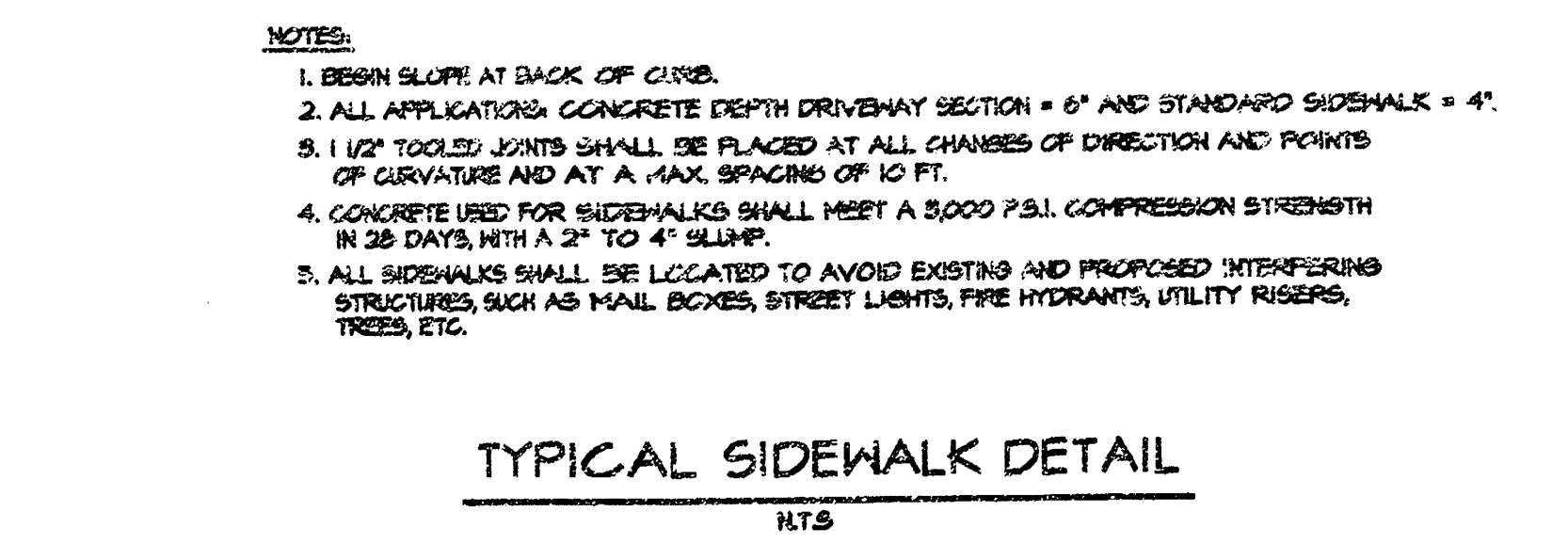
CIVIL ENGINEERING INC.
1008 N. 10th St., Suite 100, Oklahoma City, OK 73102
(505) 461-6500 FAX / (505) 461-6500 FAX

DETAIL SHEET 3
A NEW FACILITY FOR
LOWE'S HOME CENTERS
HIGHWAY 64 AND GREENWICH ROAD
MUSKOGEE, OKLAHOMA

DRAWN BY: JCH
APPROVED BY: TAB
DATE: 05-10-01
JOB NO. 00-0100

TABLE OF DIMENSIONS

SECTION	HEIGHT (FT)	WIDTH (FT)	DEPTH (FT)
1	4.0	10.0	2.0
2	4.0	10.0	2.0
3	4.0	10.0	2.0
4	4.0	10.0	2.0
5	4.0	10.0	2.0
6	4.0	10.0	2.0
7	4.0	10.0	2.0
8	4.0	10.0	2.0
9	4.0	10.0	2.0
10	4.0	10.0	2.0
11	4.0	10.0	2.0
12	4.0	10.0	2.0
13	4.0	10.0	2.0
14	4.0	10.0	2.0
15	4.0	10.0	2.0
16	4.0	10.0	2.0
17	4.0	10.0	2.0
18	4.0	10.0	2.0
19	4.0	10.0	2.0
20	4.0	10.0	2.0
21	4.0	10.0	2.0
22	4.0	10.0	2.0
23	4.0	10.0	2.0
24	4.0	10.0	2.0
25	4.0	10.0	2.0
26	4.0	10.0	2.0
27	4.0	10.0	2.0
28	4.0	10.0	2.0
29	4.0	10.0	2.0
30	4.0	10.0	2.0
31	4.0	10.0	2.0
32	4.0	10.0	2.0
33	4.0	10.0	2.0
34	4.0	10.0	2.0
35	4.0	10.0	2.0
36	4.0	10.0	2.0
37	4.0	10.0	2.0
38	4.0	10.0	2.0
39	4.0	10.0	2.0
40	4.0	10.0	2.0
41	4.0	10.0	2.0
42	4.0	10.0	2.0
43	4.0	10.0	2.0
44	4.0	10.0	2.0
45	4.0	10.0	2.0
46	4.0	10.0	2.0
47	4.0	10.0	2.0
48	4.0	10.0	2.0
49	4.0	10.0	2.0
50	4.0	10.0	2.0
51	4.0	10.0	2.0
52	4.0	10.0	2.0
53	4.0	10.0	2.0
54	4.0	10.0	2.0
55	4.0	10.0	2.0
56	4.0	10.0	2.0
57	4.0	10.0	2.0
58	4.0	10.0	2.0
59	4.0	10.0	2.0
60	4.0	10.0	2.0
61	4.0	10.0	2.0
62	4.0	10.0	2.0
63	4.0	10.0	2.0
64	4.0	10.0	2.0
65	4.0	10.0	2.0
66	4.0	10.0	2.0
67	4.0	10.0	2.0
68	4.0	10.0	2.0
69	4.0	10.0	2.0
70	4.0	10.0	2.0
71	4.0	10.0	2.0
72	4.0	10.0	2.0
73	4.0	10.0	2.0
74	4.0	10.0	2.0
75	4.0	10.0	2.0
76	4.0	10.0	2.0
77	4.0	10.0	2.0
78	4.0	10.0	2.0
79	4.0	10.0	2.0
80	4.0	10.0	2.0
81	4.0	10.0	2.0
82	4.0	10.0	2.0
83	4.0	10.0	2.0
84	4.0	10.0	2.0
85	4.0	10.0	2.0
86	4.0	10.0	2.0
87	4.0	10.0	2.0
88	4.0	10.0	2.0
89	4.0	10.0	2.0
90	4.0	10.0	2.0
91	4.0	10.0	2.0
92	4.0	10.0	2.0
93	4.0	10.0	2.0
94	4.0	10.0	2.0
95	4.0	10.0	2.0
96	4.0	10.0	2.0
97	4.0	10.0	2.0
98	4.0	10.0	2.0
99	4.0	10.0	2.0
100	4.0	10.0	2.0



STANDARD CURB INLET PRECAST TOPS			
#	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
1'-6"	3'-8" x 5'-6" x 7 1/2"	24" & SMALLER	0.385
1'-6"	4'-8" x 6'-6" x 7 1/2"	24" & 30"	0.524
5'-6"	5'-8" x 6'-6" x 7 1/2"	36"	0.646
7'-6"	8'-8" x 5'-6" x 7 1/2"	48" & 54"	0.774
8'-6"	7'-8" x 8'-6" x 7 1/2"	60" & 66"	0.892

THE CITY OF WICHITA



CITY ENGINEER'S OFFICE
1001 W. 10TH ST. - SUITE 100
WICHITA, KANSAS 67202
(913) 261-2114 FAX

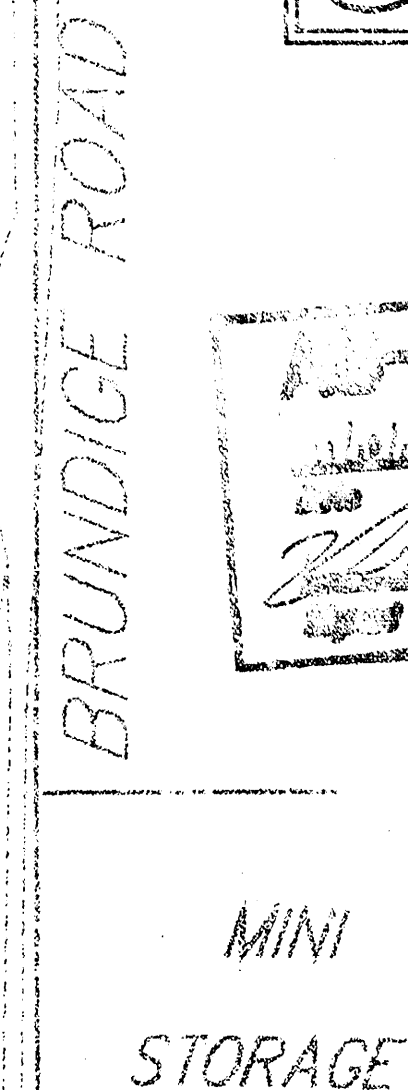
STANDARD TYPE 1-A	
CURB INLET	
OPENING = 6" x 5'-0"	
M. E. LINDERAK P.E. - CITY ENGINEER	
PROJECT NUMBER XXXX-XXXXXX	DATE CODE XXXXXX
DATE MAR 88	SHEET X OF X

DRAWN BY: JON	
APPV. BY: TAB	
CHG. NAME 00-0106-DET2	
DATE: 05-10-01	
JOB NO. 00-0106	
SHEET 12 OF 16	

DETAIL SHEET 2

A NEW FACILITY FOR
LOWE'S HOME CENTERS

164 AND GREENWICH ROAD
WACHTA, KANSAS

[illegible]

- ## EXISTING FEATURES
- LIGHT POLE
 - POWER POLE
 - WATER VALVE
 - WATER METER
 - STORM DRAIN MANHOLE
 - CATCH BASIN
 - SANITARY SEWER MANHOLE
 - GAS VALVE
 - TELEPHONE PEDESTAL
 - BORING
 - INVERT
 - FIRE HYDRANT
 - IRON PIN SET (3/4" REBAR)
 - IRON PIN FOUND
 - OVERHEAD ELECTRIC LINE
 - UNDERGROUND ELECTRIC LINE
 - SANITARY SEWER LINE
 - WATER LINE
 - GAS LINE
 - OVERHEAD TELEPHONE LINE
 - UNDERGROUND TELEPHONE LINE
 - GUARD POST
 - UNDERGROUND GAS MARKER
 - CLEAN OUT
 - REINFORCED CONCRETE PIPE
 - CORRUGATED METAL PIPE

- ## PROPOSED FEATURES
- BOUNDARY LINE
 - CONTINUOUS ELEVATIONS OF CHAIN & FENCE
 - STANDARD PLANT
 - SPOT GRADE DATA
 - ADJUSTED GRADES
 - QUANTIFIED CUT & FILL
 - DETERMINING OF MAINTENANCE
 - GROUP PLANTS - NEW SHEET FOR TYPE
 - STANDARD BINDER PRACTICE
 - FIELD HYDRAULIC WITH SQUARE POINTS
 - PERCE AND DIRECTION INDICATOR
 - WATER METER IN PIT
 - DRAINAGE STRUCTURE LABELS

- | DETAILS | |
|---------|---|
| 100 | Notes: Numbers in the following systems are shown on this sheet and are included on detail sheets, which are included as part of this set of plans. |
| 101 | JUNCTION BOX |
| 102 | STANDARD CURB INLET (CITY STANDARD) |
| 103 | STORM DRAIN CLEANGUT (S.C.U.) |
| 104 | TYPE B INLET |
| 105 | TYPE A INLET |

- ## CRADING GENERAL NOTES
- INFORMATION PERTAINING TO UNDER GRADE UTILITIES HAS OBTAINED FROM AVAILABLE RECORDS AND FIELD SURVEYING WHEN POSSIBLE, BUT THE CONTRACTOR MUST BE RESPONSIBLE FOR VERIFYING ALL UTILITIES.
- EXISTING UTILITIES TO BE DOWNGRADE FIT INTO BY HAND AT UTILITY CROSSINGS IN ADVANCE OF MAJOR BACKFILLING. IF UTILITIES ARE LESS THAN SPECIFIED ON THESE PLANS OR DISCOVERED IN FIELD, CONTACT THE ENGINEER AND THE OWNER / DEVELOPER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE DESIGN AND VERIFICATION OF THESE TIES, SHORING, BRACING AND SPECIAL EROSION/SLURRY WALL MEASURES REQUIRED TO KEEP OPEN, PROTECT AND STABILIZE EXISTING UTILITIES PRIOR TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS.
- WHERE THE ROAD PIPE IS USED ON THESE PLANS, THE CONTRACTOR HAS THE OPTION TO FILL MATERIAL WITH SOIL OR LESS.
- ALL DISTURBED AREAS AND SLOPES SHALL BE GRADED SMOOTH TOP SOIL APPLIED (4") THE AREA SHALL BE SEEDDED WITH GRASS SEEDS UNTIL MOIST GRASS GERMENATION HAS BEEN ESTABLISHED.
- STORM DRAIN PIPE SLOPES SHALL BE INSTALLED PER DETAIL 0205.
- USE EROSION CONTROL PLAN FOR R/P R/P 61123

- ## CONSTRUCTION NOTES
- 1) AFTER PERMITS HAVE BEEN OBTAINED 4 EROSION CONTROL MEASURES INSTALLED. THE CONTRACTOR SHALL GRADE BUILDING PAD, DIVISION CENTER 4' AWAY TO ± 0.1 FT. OF SUBGRADE AS PER DIVISION 2 COMPACTION SPECIFICATIONS.
 - 2) IMMEDIATELY APPLY 8" COMPACT STONE BASE FOR BUILDING PAD TO ± 1.02 " OF CONCRETE SUBGRADE AS PER DIVISION 2 SPECIFICATIONS. STONE SHALL BE APPLIED PRIOR TO EXCAVATING INTERIOR 4' PERIMETER FOOTINGS.
 - 3) COMPACT 4" MAINTAIN 30,000 SQ. FT. OF 6" THICK STONE BASE TO BE LOCATED BY LONE'S PROJECT MANAGER.

- [illegible]

- ## GRADING AND DRAINAGE NOTES
- 1) ALL EXISTING STRUCTURES UNLESS OTHERWISE NOTED TO REMAIN, FENCES, TREES, ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED. EXISTING UTILITIES AT SITE AND BURIAL ON SITE SHALL BE SUBJECT TO LOCAL ORDINANCES & LOWEST SPECIFICATIONS.
 - 2) ALL DRAINAGE STRUCTURES SHALL BE PRE-CAST.
 - 3) ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (HGD) LOADINGS AND BE INSTALLED ACCORDINGLY.
 - 4) CONTRACTOR SHALL NOTIFY ALL UTILITY OR SITE COMPANIES HAVING UNDERGROUND UTILITIES ON UTILITY OR IN ADJACENT AREAS PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
 - 5) SITE GRADING SHALL NOT PROCEED UNTIL PROSC. CONTROL MEASURES HAVE BEEN INSTALLED.
 - 6) S/CIP - SMOOTH INTERIOR CORRUGATED PLASTIC PIPES 4 FEET DIA. PER 15' LENGTH. ADVANCED DRAINAGE SYSTEMS, INC. 3500 RIVERSIDE DRIVE, COLUMBIA, MO 43221 (616) 497-0191
 - 7) S/CIP SHALL BE INSTALLED PER MANUFACTURER'S GUIDELINE FOR HEAVY DUTY DRAINAGE APPLICATIONS.
 - 8) FRENCH DRAIN SHALL BE INSTALLED IF DIRECTED BY THE GEOTECHNICAL ENGINEER OR AS SHOWN ON PLANS.
 - 9) CONTRACTOR SHALL PROVIDE 2' X 2' X 8" THICK CONCRETE APRON AT ALL CLEANOUTS OUTSIDE OF BUILDING.
 - 10) CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL PRACTICES IN ACCORDANCE WITH THE SOILS CONSERVATION PLAN AND CONSTRUCTION SCHEDULE.
 - 11) REMOVE GOOD TOPSOIL FROM AREAS TO BE GRADED AND FILLING AND PRESERVE IT FOR USE IN FINISHING THE GRADING OF ALL CRITICAL AREAS.
 - 12) SCARPING AREAS TO BE TOP SOIL TO A MINIMUM DEPTH OF 12 INCHES BEFORE PLACING
 - 13) CLEAR AND GRUB AREAS TO BE FILLED TO REMOVE TREE TRUNKS, ROOTS, OR OTHER DEBRIS AND OTHER MATERIALS THAT WOULD AFFECT THE STABILITY OF THE FILL.
 - 14) ENSURE THAT FILL MATERIAL IS FREE OF BRUSH, KLEENH, ROCKS, LOGS, STUBS, BUILDING DEBRIS, AND OTHER MATERIALS INAPPROPRIATE FOR CONSTRUCTING STABLE FILLS.
 - 15) PLACE ALL FILL IN LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS AND COMPACT THE LAYERS AS REQUIRED TO MEET APPLICABLE SETTLEMENTS, OR OTHER RELATED EROSION FACTORS.
 - 16) DO NOT INCORPORATE PROPOSED MATERIAL OR SOFT, MOIST OR HIGHLY COMPRESSIBLE MATERIALS INTO FILL SLOPES.
 - 17) KEEP DIVERSIONS AND OTHER WATER CONVEYANCE MEASURES FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
 - 18) PERMANENTLY STABILIZE ALL GRADED AREAS AFTER FIN GRADING IS COMPLETED ON EACH AREA AS THE GRADING PLAN CALLS FOR. TEMPORARY STABILIZATION MEASURES ON ALL GRADED AREAS WHEN WORK IS TO BE INTERRUPTED OR DELAYED FOR 50 WORKING DAYS OR LONGER.

- NOTES**
 Notes labeled by the following symbols are shown on this sheet.
- CONNECT DOWNSPOUTS TO DRAIN PIPE (SEE ARCH PLANS FOR EXACT NO. AND LOCATION OF DOWN SPOUTS)

GRADING AND DRAINAGE PLAN
A NEW FACILITY FOR
LOWE'S HOME CENTERS
14 AND GREENWICH ROAD WICKFORD

DRAWN BY:	JON
APPV. BY:	SM
DWG. NAME	00-0106-BLD
DATE:	06-07-01
JOB NO.	00-0106
SHEET 5 OF 18	