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on March 15 A.D. 1965 at 8:00 o'clock. M. Book 353 Official Records
Page 436-443 Encl 7 Records of Yavapai County, Arizona.

WITNESS my hand and official seal the day and year first above written.

DEXED

PAGED

FRANK C. BAUER, County Recorder.

By Evelyn D. Zaro, Deputy

STANDARDS FOR CONSTRUCTION AND PAVING OF SUBDIVISION STREETS
AND ACCESS ROADS IN YAVAPAI COUNTY

RESOLUTION NO. 64

141

WHEREAS, the County of Yavapai continually receives as a portion of dedicated subdivisions, various streets and roads which may become the responsibility of the county to maintain, and

WHEREAS, it is desirable to establish minimum standards for paved and nonpaved streets and access roads prior to their acceptance by the County of Yavapai,

NOW, THEREFORE, BE IT RESOLVED by the Yavapai County Board of Supervisors that all streets or roads built or paved by private individuals after this date, in order to be eligible for county maintenance shall be built to the following specifications:

MINIMUM STANDARDS FOR STREET CONSTRUCTION IN YAVAPAI COUNTY

Continuous grades shall not exceed 10%.

Maximum grades from 10% to 15% may be constructed for distances not over 200 feet. These maximum grades cannot be repeated unless separated by grades less than 10% for a distance of not less than 200 feet.

Width of road to be not less than 28 feet wide from shoulder to shoulder of stabilizer material, half the road width on each side of center line of street, if center line is shown on plat as tangents and curves. If curves are not shown on the plat, the center line of the constructed road may differ from the angle line shown on the plat enough to permit the center line to be constructed on a curve.

Fill slopes to be not less than $1\frac{1}{2}$ - 1.

Cut slopes in dirt to be not less than 1 - 1.

Cut slopes in rock to be not less than $\frac{1}{4}$ - 1.

Adequate drainage culverts or structures must be provided.

A minimum of 6 inches of stabilizer must be put on streets before acceptance for maintenance.

Subdivision streets or roads stabilized or paved by other than county crews will be maintained by county crews only to the extent deemed reasonable by the County Engineer, and when reconstruction is necessary these roads or streets will not be reconstructed at county expense.

MINIMUM STANDARDS FOR PAVING OF SUBDIVISION STREETS AND ACCESS ROADS.

SUBDIVISION STREETS WILL BE ACCEPTED FOR MAINTENANCE BY YAVAPAI COUNTY ONLY WHEN THEY MEET THE REQUIREMENTS OF THE FOLLOWING MINIMUM STANDARDS. EACH STREET OR ROAD SHALL BE DESIGNED AND CONSTRUCTED FOR PAVING, ALTHOUGH THEY MAY BE CONSTRUCTED A PORTION OR SECTION AT A TIME.

RIGHT OF WAY:

Minimum right of way to be accepted.

50 feet in width, 25 feet each side of center line.

MINIMUM PAVING WIDTHS:

Access road.

26 feet wide.

Subdivision street

28 feet wide, back to back curb.

STREET DEVELOPMENT AND PAVING PLANS:

Street grades shall be submitted on standard plan and profile sheets. A typical section and base course thickness of roadway shall be shown. Plans shall be approved by the County Engineer before the start of construction.

SUBGRADE:

Subgrades shall be constructed to the following widths:

40 feet wide for a fill section.

36 feet wide for a cut section.

The subgrade of the street shall be thoroughly compacted to at least 90% of maximum density, based on standard proctor, by wetting and rolling. The compacted depth shall not be less than six (6) inches. In fill sections, subgrade material shall be worked in layers, (not to exceed eight (8) inches in depth), and compaction tests taken on each layer.

On every project, samples of the subgrade material shall be taken at locations not more than 500 feet apart. Samples shall be tested by an approved laboratory. Laboratory reports shall be submitted to the office of the County Engineer with street paving plans. The report shall show the plasticity index and gradation. The depth of the base material required shall be established after analysis of the subgrad soil and shall be in accordance with the chart approved by the Board of Supervisors; a copy of which is attached hereto.

AGGREGATE BASE COURSE:

The base material shall be sand and gravel; crushed rock and/or decomposed granite; and shall have a plasticity index not in excess of six (6) and shall conform to gradation as required by the County Engineer and shown on the following table:

<u>SIEVE SIZE</u>	<u>PERCENT PASSING, 2 INCH MAX.</u>
2 1/2"	100
2"	90-100
3/4"	50-80
No. 4	30-50
No. 200	3-11

Material shall be placed in uniform layers not to exceed four (4) inches in depth. Each layer shall be bladed to a smooth surface conforming to the cross section shown on the plans and shall be watered and thoroughly rolled in a manner satisfactory to the Engineer. Sufficient representative samples of the base material shall be taken to reasonably determine the quantity available. Laboratory reports, showing gradation and plasticity index shall be submitted to the office of the County Engineer. Compaction tests on the aggregate base course shall be taken on each layer, not more than 500 feet apart, and shall be compacted to a minimum of 95% of maximum density, based on standard proctor.

MINERAL AGGREGATE:

The compacted depth of the bituminous mix required for surfacing shall not be less than two (2) inches. The aggregate shall be sand and gravel or crushed rock, (not decomposed granite), and shall conform to gradation; as required by the County Engineer and shown on the table below:

<u>SIEVE SIZE, SQ. OPENINGS</u>	<u>PERCENT PASSING</u>
1"	100
3/4"	90-100
No. 8	40-75
No. 200	0-10

Plasticity index not to exceed five (5). Sufficient representative samples of the base material shall be taken to reasonably determine the

the quantity available. Laboratory reports showing gradation and the plasticity index shall be submitted to the office of the County Engineer.

BITUMINOUS OIL:

Mix.

Bituminous material satisfactory to the County Engineer (MC-250 - penetration asphalt 120-150- or equivalent) shall be used at the rate specified by the laboratory in its mix design; a copy of which shall be submitted to the County Engineer. The material shall be thoroughly mixed to provide a uniform coating and adequate cementation and stability. Mixing may be by field or plant methods. After spreading, the surface shall be rolled with a roller weighing not less than five (5) tons.

PENETRATION:

Bituminous material satisfactory to the County Engineer shall be used (MC-250 or equivalent) at a rate of not less than 0.40 gallon per square yard and no more than 0.60 gallons per square yard. The specific rate of application shall be determined by the County Engineer.

Blotting shall be done wherever and whenever necessary with a material specified by the County Engineer. All excess blotter material shall be swept away and surface of the bituminous roadway shall be reasonably clean and free of all loose material before the seal coat may be applied.

SEAL COAT:

The seal coat shall consist of either emulsified asphalt or cationic (or equivalent) emulsified asphalt applied at the rate of 0.30 to 0.35 gallons per square yard and chip cover aggregate. Emulsified asphalt shall be applied to the surface of the road only when the atmospheric temperature is 60° F. or higher and rising; and the atmospheric and roadway surface conditions are, in the opinion of the Engineer, such as will permit satisfactory adhesion to the asphalt.

A seal coat will be required on all street paving projects.

COVER MATERIAL"

The cover material shall conform to the following gradation:

<u>SIEVE SIZE</u>	<u>PERCENTAGE BY WEIGHT PASSING SIEVES</u>		
	Type B	Type C	Type E
3/8"	100	100	100
1/4"	65-100	65-100	65-100
No. 10	0-15	0-20	5-30
No. 40	0-5	0-5	0-7
No. 200	0-2	0-2	0-2

For Type B cover material, a minimum of 30 per cent by weight of the material retained on the No. 10 sieve shall have at least one rough angular face produced by crushing.

For Type C cover material, a minimum of 70 per cent by weight of the material retained on the No. 10 sieve shall have at least one rough angular face produced by crushing.

For Type E cover material, a minimum of 85 per cent by weight of the material retained on the No. 10 sieve shall have all surfaces which are rough and angular and have been produced by crushing.

The type used shall be as specified by the County Engineer.

Cover material shall be produced from clean, hard gravel or rock, and shall be applied at the rate of twenty (20) pounds per square yard. Following the spreading of the cover material, the surface shall be rolled with a tandem power and/or pneumatic tired roller.

CURBS AND GUTTERS:

If curbs and gutters are to be installed, a detailed cross section of the proposed curb and gutter is to be submitted to the County Engineer

for approval before construction. (See cross section attached.)

Curbs and gutters shall be constructed of Class A Portland cement concrete, properly formed and with workmanlike finish.

Expansion joints, consisting of one-half inch (1/2") thick pre-formed fillers of approved type, shall be installed at the ends of all returns and at intervals not exceeding twenty-five (25) feet.

THE COST OF ALL SAMPLING AND TESTING SHALL BE BORNE BY THE SUBDIVIDER OR CONTRACTOR.

CONSTRUCTION:

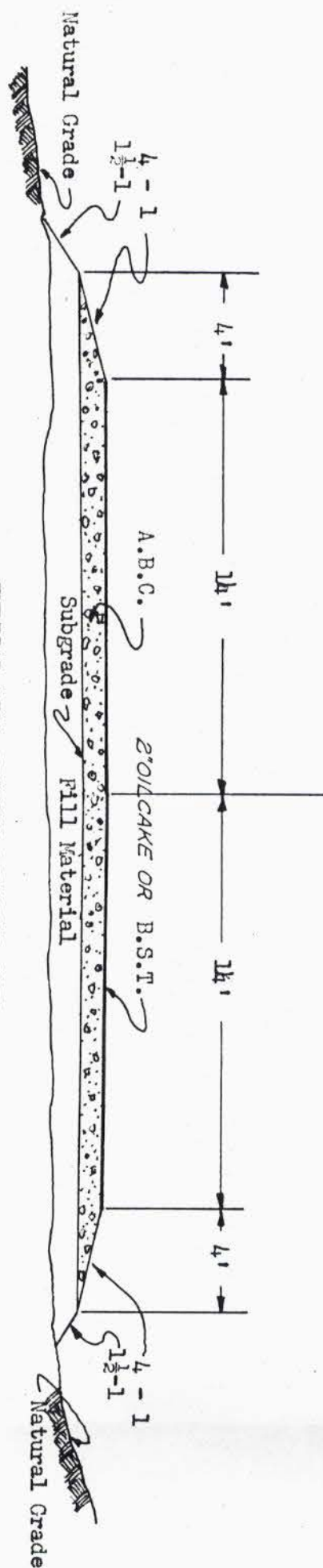
The office of the County Engineer shall be notified at least three (3) days before the start of construction.

INSPECTION:

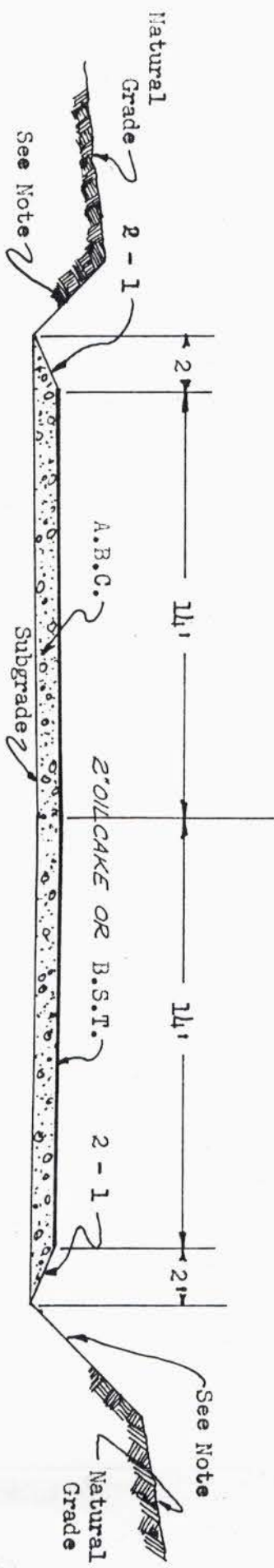
It should not be expected that inspection by the representatives of the County Engineer's Office will in any way eliminate the need for regular inspection during the construction period. Inspection under the direction of an Inspector, approved by the County Engineer, is required. It is strongly recommended that the Engineer preparing the plans and specifications be retained to make the construction inspection.

NO CHANGES OR DEVIATIONS FROM THESE STANDARDS MAY BE MADE, AND ACCEPTANCE EXPECTED, UNLESS THESE CHANGES OR DEVIATIONS HAVE BEEN APPROVED IN WRITING BY THE COUNTY ENGINEER.

TYPICAL SECTIONS



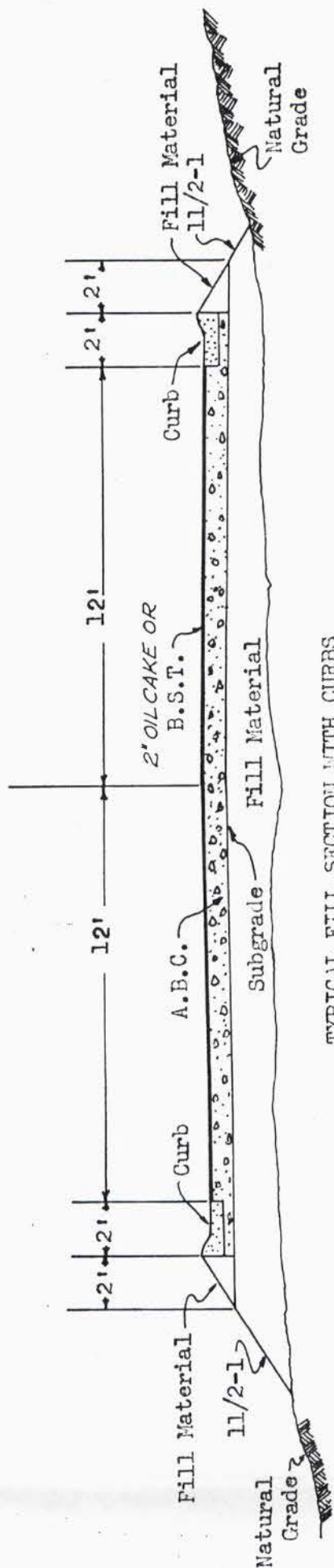
TYPICAL FILL SECTION WITHOUT CURBS.



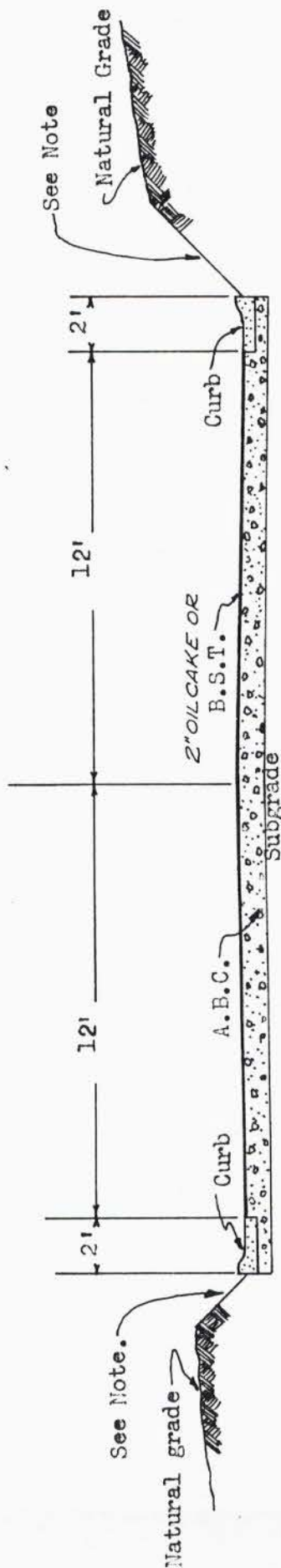
TYPICAL CUT SECTION WITHOUT CURBS.

NOTE: Fill Slopes to be not less than $1\frac{1}{2}$ -1
 Cut slopes in dirt to be not less than 1 - 1
 Cut slopes in rock to be not less than $\frac{1}{2}$ - 1
 Adequate drainage culverts or structures must be provided.- Arrived at by approved engineering methods
 Continuous grades shall not exceed 10%. Max. grades from 10% to 15% may be constructed for distances not over 200 feet. These maximum grades cannot be repeated unless separated by grades less than 10% for a distance not less than 200 feet.
 Max. Crown 0.015 feet and Max. super-elevation 0.080 feet.

TYPICAL SECTIONS



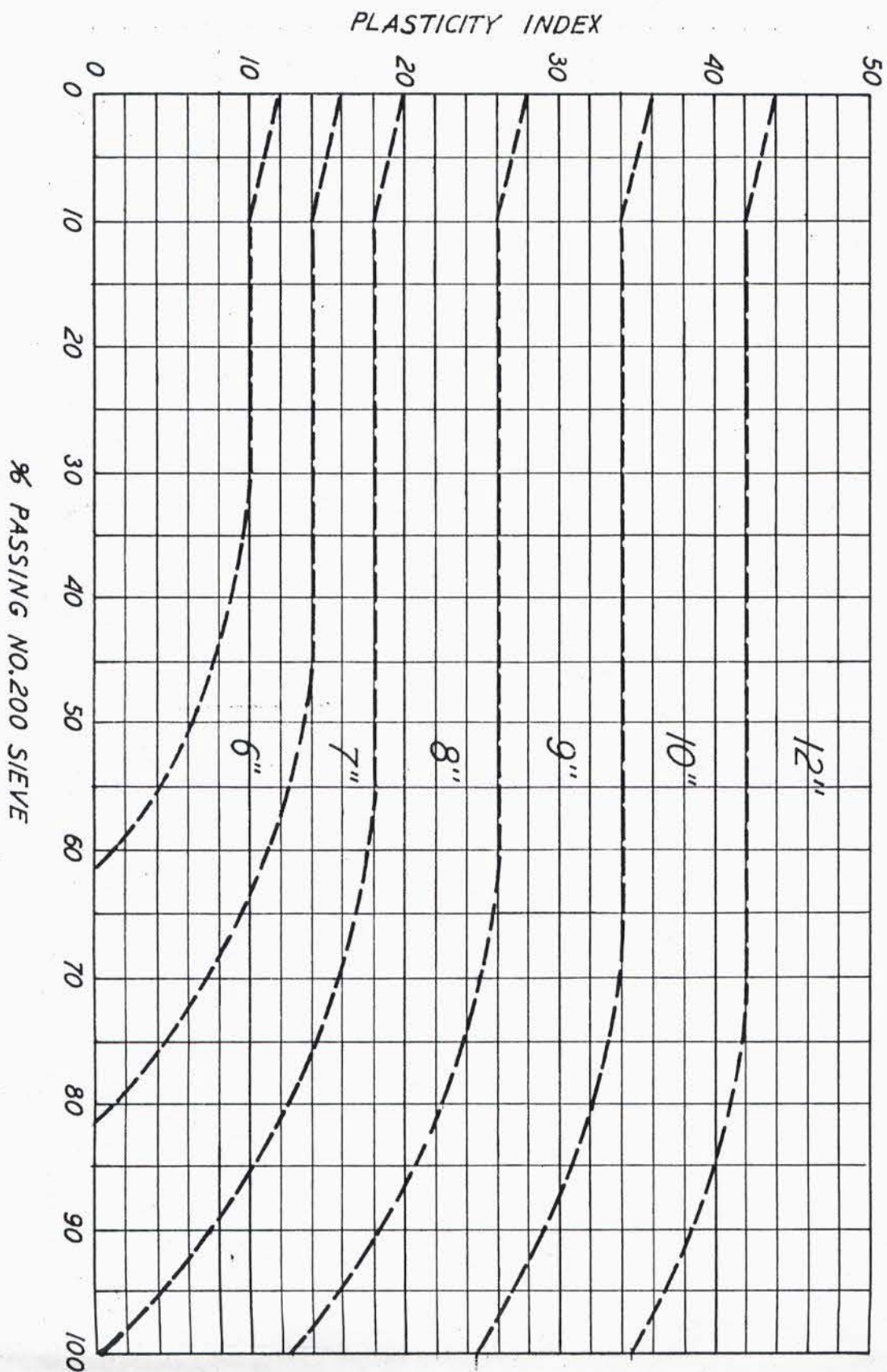
TYPICAL FILL SECTION WITH CURBS



TYPICAL CUT SECTION WITH CURBS.

NOTE. Fill slopes to be not less than 1 1/2 - 1
 Cut slopes in dirt to be not less than 1 - 1
 Cut slopes in rock to be not less than 1 - 1
 Adequate drainage culverts or structures must be provided - Arrived at by approved engineering methods.
 Continuous grades shall not exceed 10%. Max. grades from 10% to 15% may be constructed for distances not over 200 feet. These maximum grades cannot be repeated unless separated by grades less than 10% for a distance not less than 200 feet.
 Max. Crown 0.015 Feet and Max. super-elevation 0.080 feet.

YAKAPAI COUNTY ENGR. OFFICE
 DEPTH OF BASE MATERIAL REQUIRED FOR SUBDIVISION
 STREETS AND ACCESS ROADS



Passed and adopted at the regular meeting of the Yavapai County
Board of Supervisors this 16th day of February, 1965.

M. E. Rohrer

M. E. Rohrer, Chairman
Board of Supervisors of
Yavapai County, Arizona

ATTEST:

Alvin W. Jaspers
Alvin W. Jaspers, Clerk

