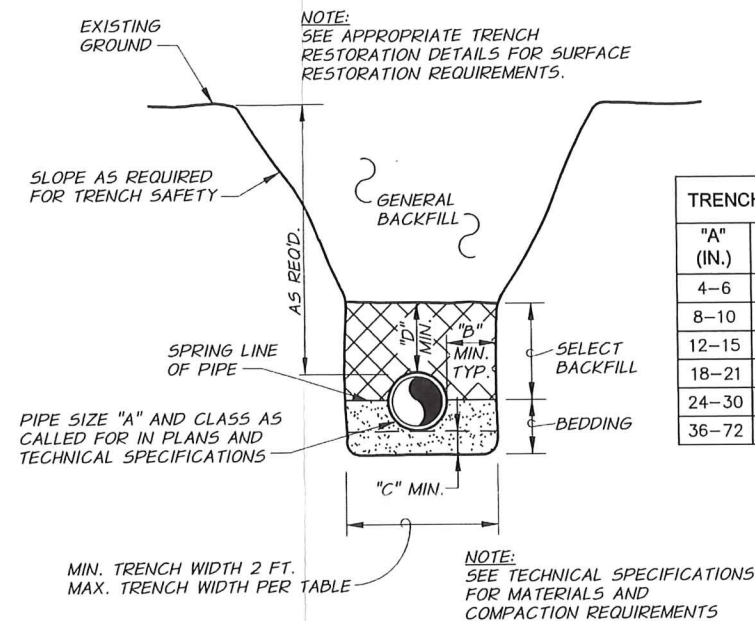


TRENCH EXCAVATION AND BACKFILL
WATER LINES
N.T.S.



TRENCH DIMENSION TABLE			
"A" (IN.)	"B" (IN.)	"C" (IN.)	"D" (IN.)
4-6	10	4	8
8-10	10	6	10
12-15	12	6	10
18-21	16	6	12
24-30	18	6	12
36-72	24	6	14

TRENCH EXCAVATION AND BACKFILL
SEWER AND STORM SEWER LINES
N.T.S.

- NOTES**
- SEE TECHNICAL SPECIFICATIONS FOR MATERIALS AND COMPACTION REQUIREMENTS
 - NATIVE MATERIAL MAY BE USED AS BEDDING, SELECT BACKFILL, AND GENERAL BACKFILL UNLESS UNSUITABLE MATERIAL IS ENCOUNTERED OR INDICATED OTHERWISE.

REVISION	DATE
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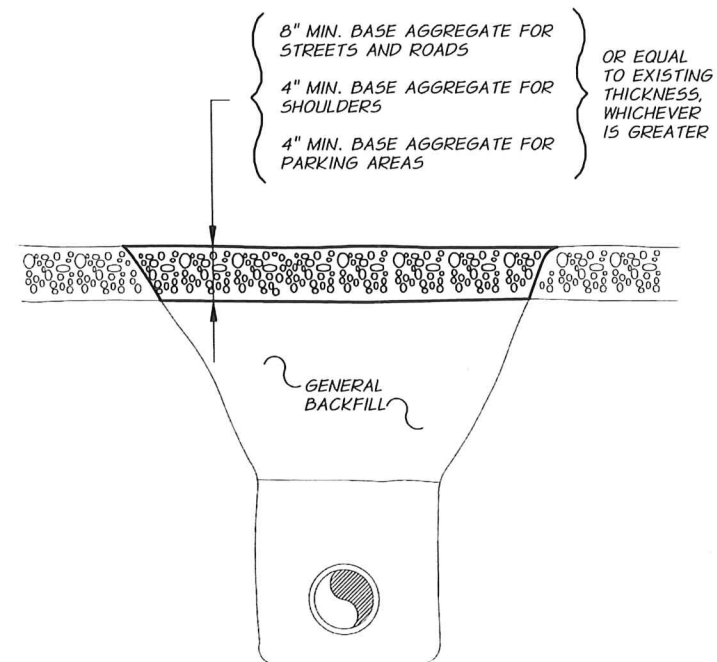


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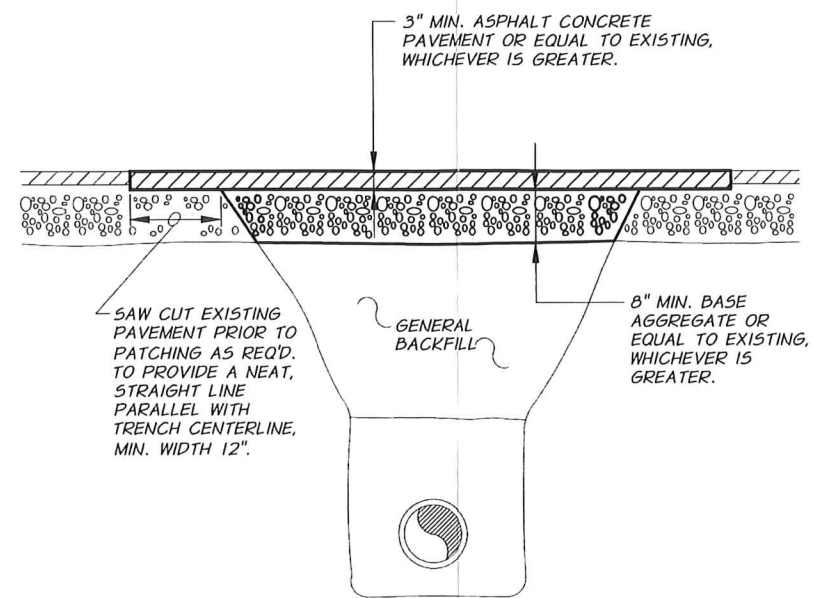
TRENCH EXCAVATION AND BACKFILL

FIGURE
ST1

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TRENCH RESTORATION
GRAVEL STREETS, ROADWAYS, SHOULDERS,
AND PARKING AREAS
N.T.S.



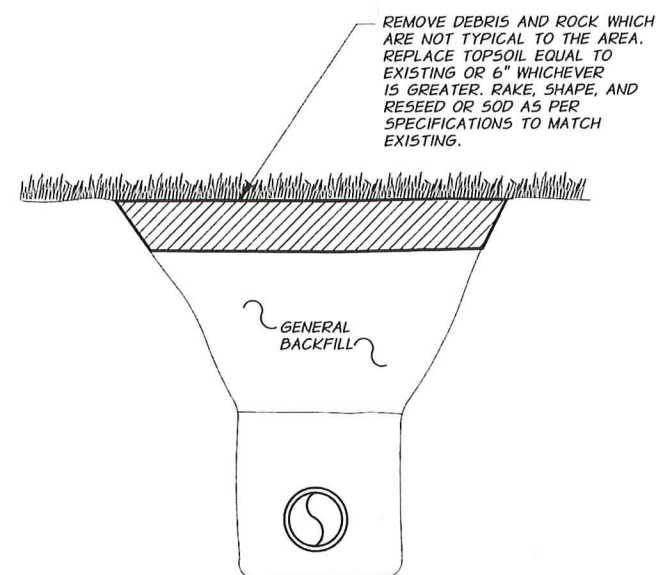
TRENCH RESTORATION
PAVED STREETS AND ROADWAYS
N.T.S.

REVISION	DATE
ORIGINAL DEVELOPMENT	MARCH 2021

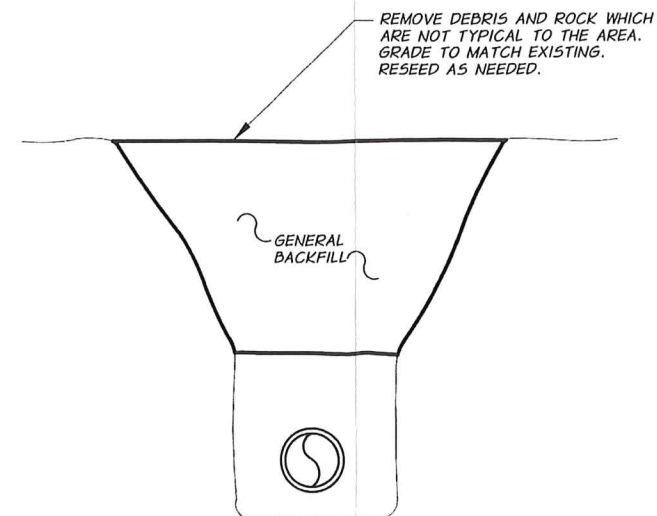


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TRENCH RESTORATION
GRAVEL AND PAVEMENT AREAS

FIGURE
ST2



TRENCH RESTORATION
LAWNS & LANDSCAPED AREAS
N.T.S.



TRENCH RESTORATION
NATURAL AREAS
N.T.S.

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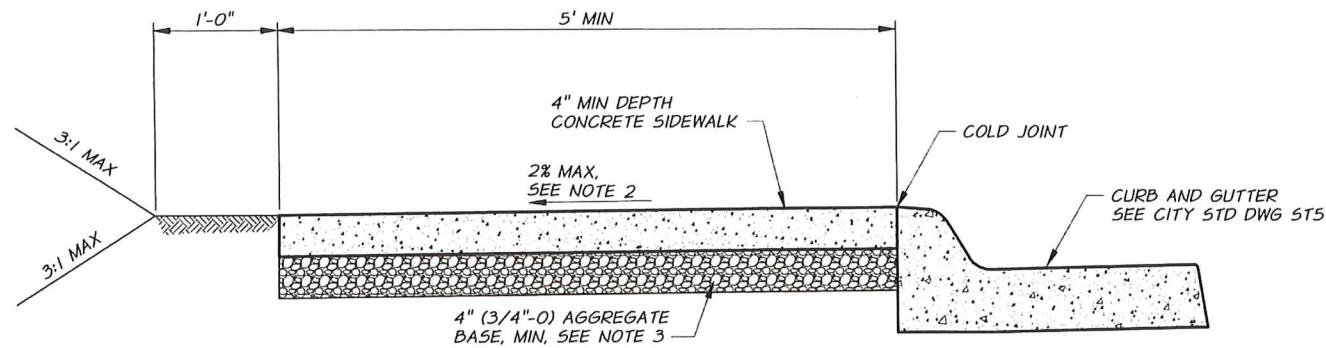
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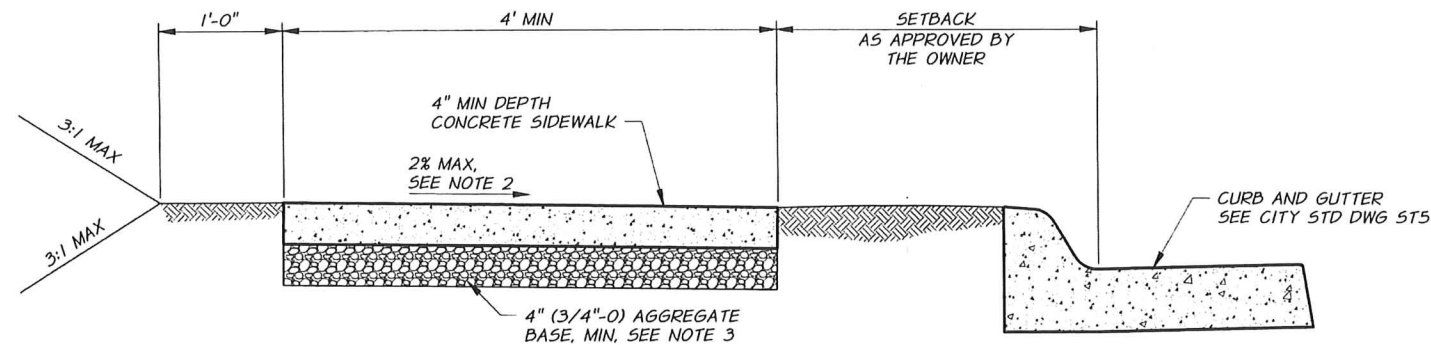
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TRENCH RESTORATION
LAWNS AND NATURAL AREAS

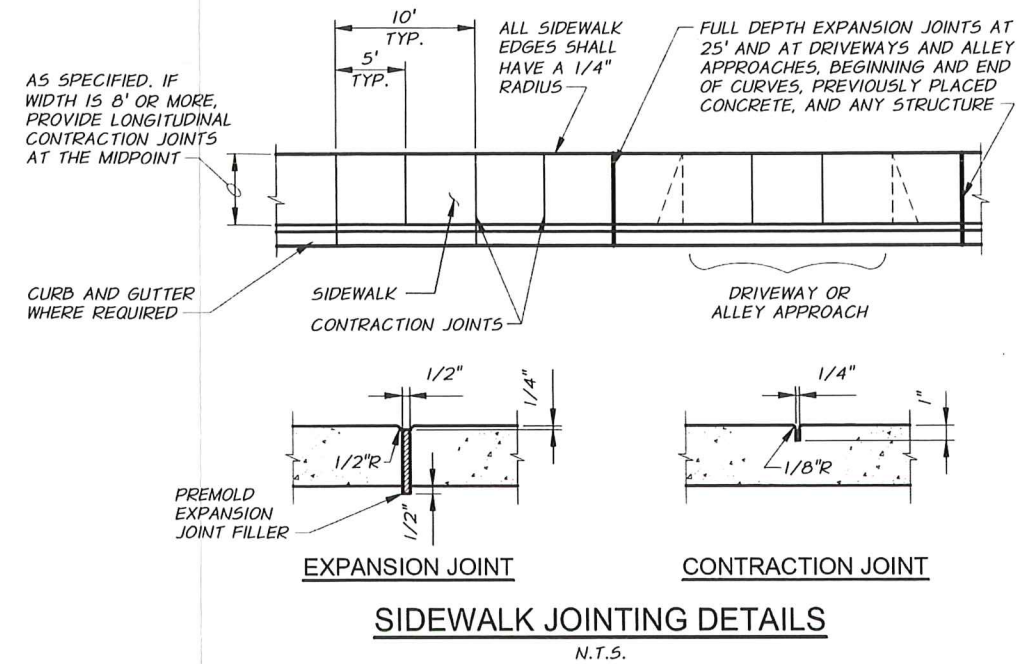
FIGURE
ST3



SIDEWALK SECTION
NTS



SIDEWALK SECTION WITH SETBACK
NTS



NOTES

1. PROVIDE EXPANSION JOINTS AROUND POLES, BOXES, AT THE ENDS OF EACH DRIVEWAY, AROUND ANY FIXTURES WHICH PROTRUDE THROUGH THE SIDEWALK, AND BETWEEN ANY STRUCTURE IMMEDIATELY ADJACENT TO THE SIDEWALK.
2. TO INSURE SLOPES DO NOT EXCEED MAXIMUM ALLOWABLE SLOPES, IT IS RECOMMENDED TO SET SLOPES LOWER THAN MAXIMUM ALLOWABLE SLOPES AS FOLLOWS:
-FOR 2% MAX, SET SLOPE AT 1.5%
-FOR 8.33% MAX, SET SLOPE AT 7.5%
SIDEWALK WITH SLOPES EXCEEDING MAXIMUM ALLOWABLE VALUES SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
3. COMPACT AGGREGATE BASE TO 95% MAXIMUM DRY DENSITY PER ASTM D1557.
4. ALL CONCRETE SHALL BE COMMERCIAL GRADE 4,000 PSI CONCRETE.

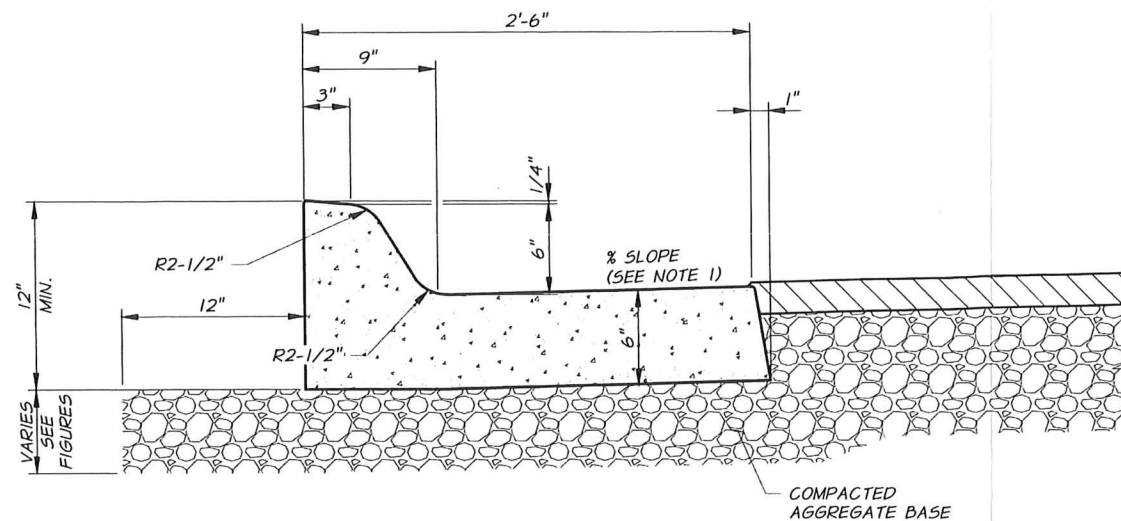
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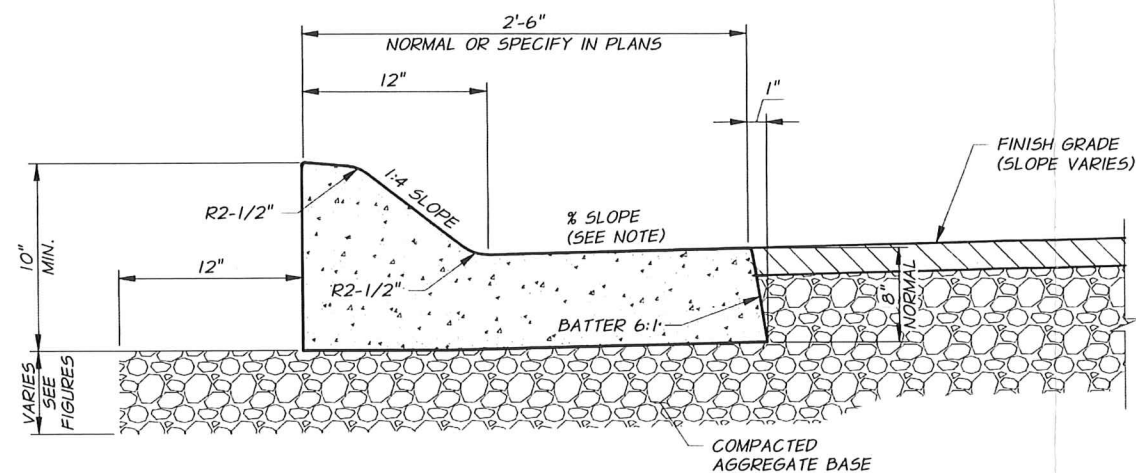
SIDEWALK DETAILS

**FIGURE
ST4**



- NOTES:
1. NORMAL SLOPE SHALL BE 2.5% AND MAY VARY WITH THE CITY'S APPROVAL.
 2. FOR USE AS REPLACEMENT CURB AND GUTTER ONLY.
 3. ALL CONCRETE SHALL BE COMMERCIAL GRADE 4,000 PSI CONCRETE.
 4. COMPACT AGGREGATE BASE TO 95% MAXIMUM DRY DENSITY PER ASTM 1557.

TYPICAL MOUNTABLE CURB AND GUTTER DETAIL
N.T.S.



- NOTE
- NORMAL SLOPE SHALL BE 2.5% AND MAY VARY WITH THE CITY'S APPROVAL.

LOW PROFILE MOUNTABLE CURB AND GUTTER DETAIL
N.T.S.

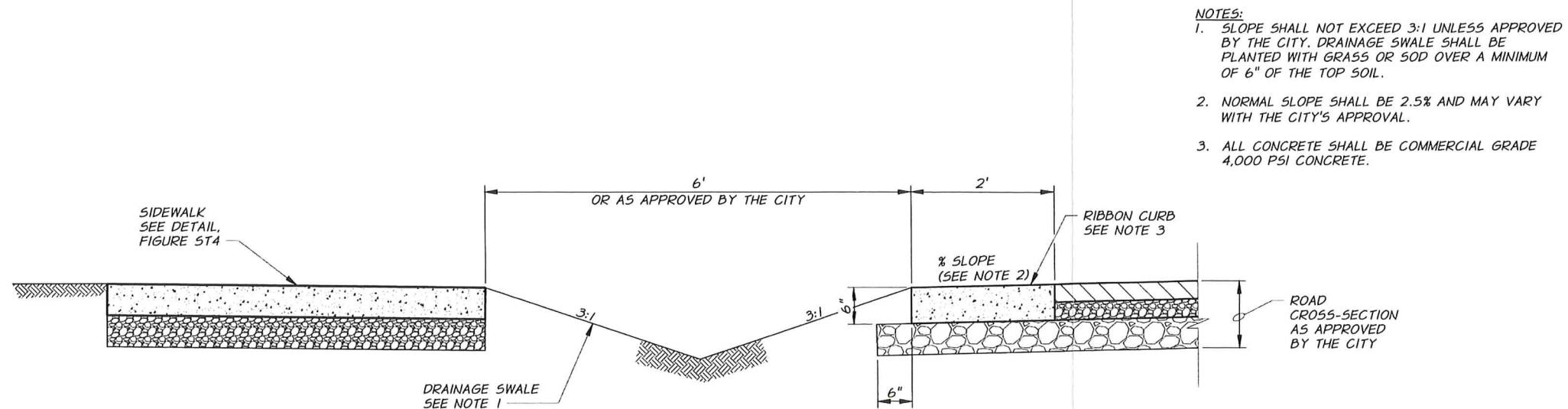
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MOUNTABLE CURB AND GUTTER

FIGURE
ST5



RIBBON CURB AND DRAINAGE SWALE

N.T.S.

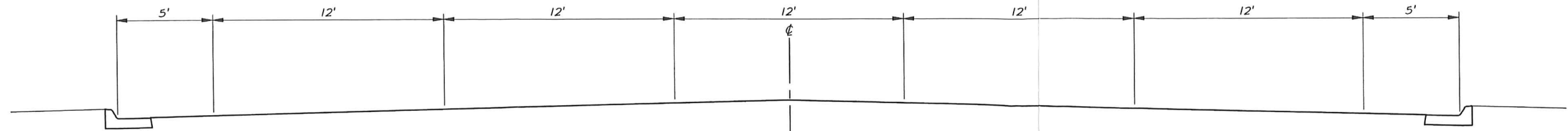
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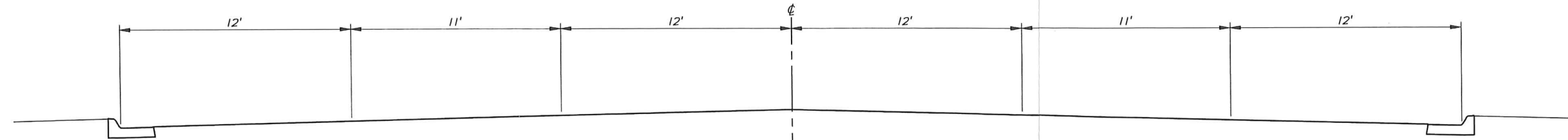
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RIBBON CURB AND DRAINAGE SWALE

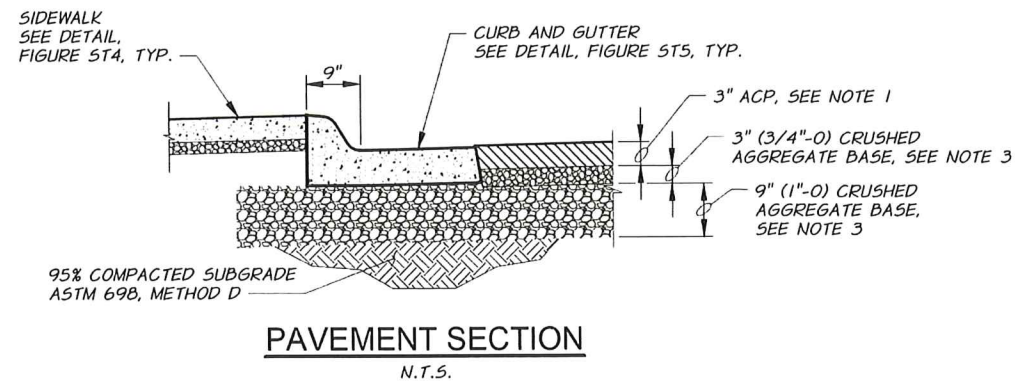
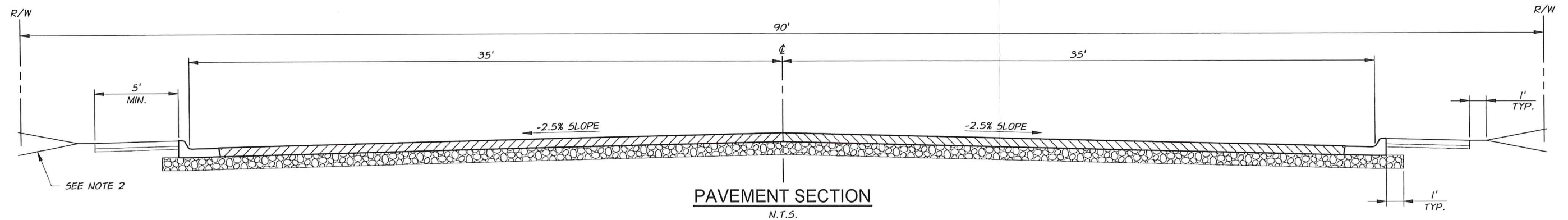
FIGURE
ST6



LANE OPTION 1
N.T.S.



LANE OPTION 2
N.T.S.



- NOTES**
1. ASPHALT CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN 1 LIFT.
 2. SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY THE CITY.
 3. DEPTHS OF CRUSHED AGGREGATE BASE SHALL BE CONFIRMED BY A SITE SOILS INVESTIGATION AND APPROVED BY THE CITY.

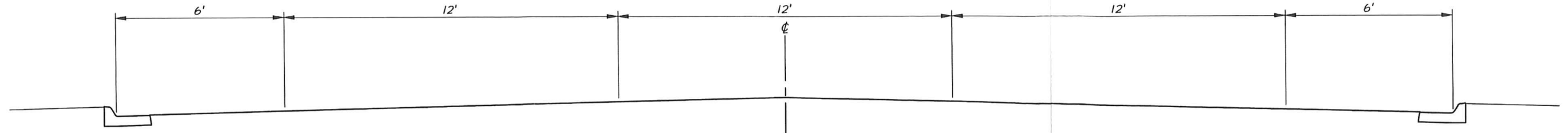
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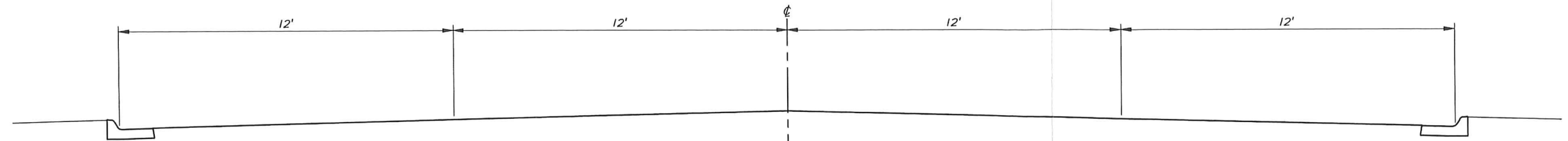
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MAJOR ARTERIAL CROSS SECTION

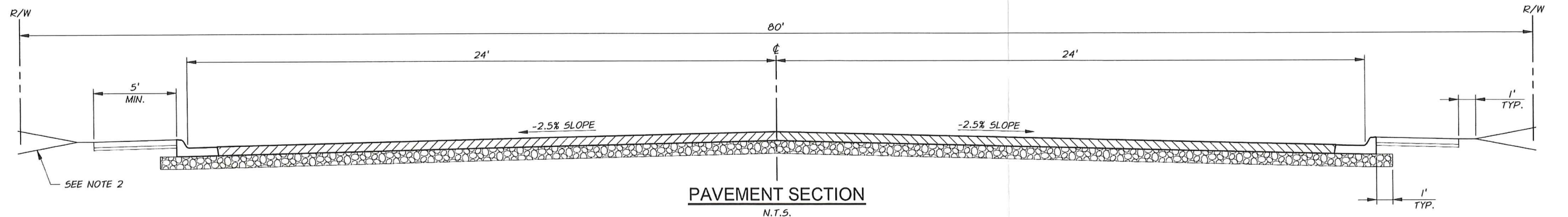
**FIGURE
ST7**



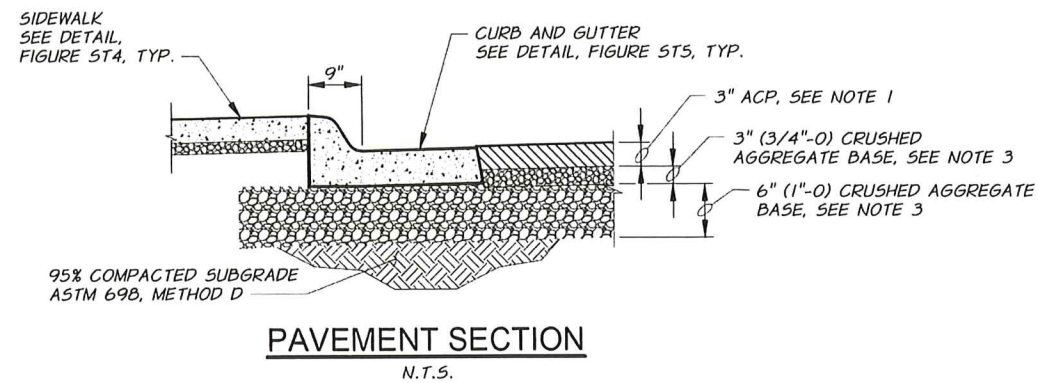
LANE OPTION 1
N.T.S.



LANE OPTION 2
N.T.S.



PAVEMENT SECTION
N.T.S.



PAVEMENT SECTION
N.T.S.

- NOTES**
1. ASPHALT CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN 1 LIFT.
 2. SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY THE CITY.
 3. DEPTHS OF CRUSHED AGGREGATE BASE SHALL BE CONFIRMED BY A SITE SOILS INVESTIGATION AND APPROVED BY THE CITY.

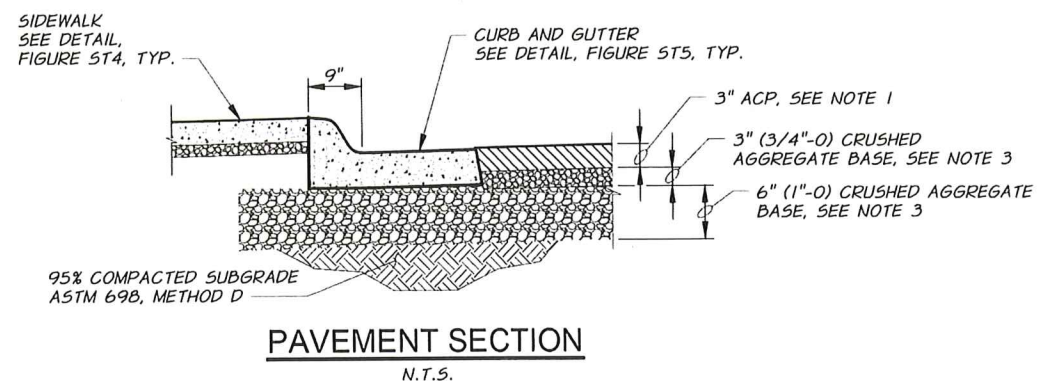
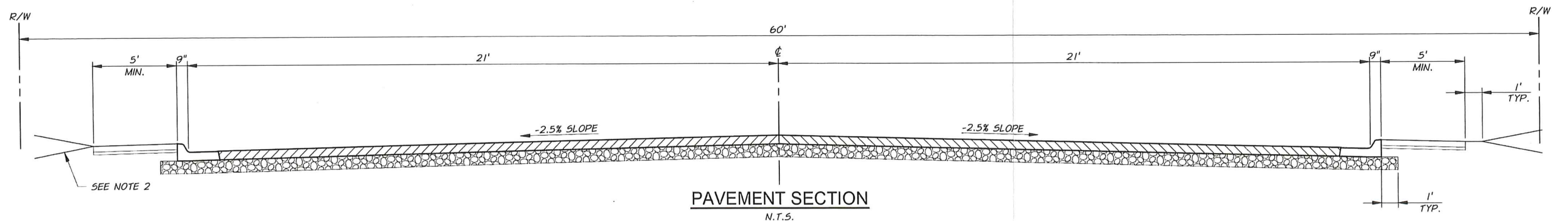
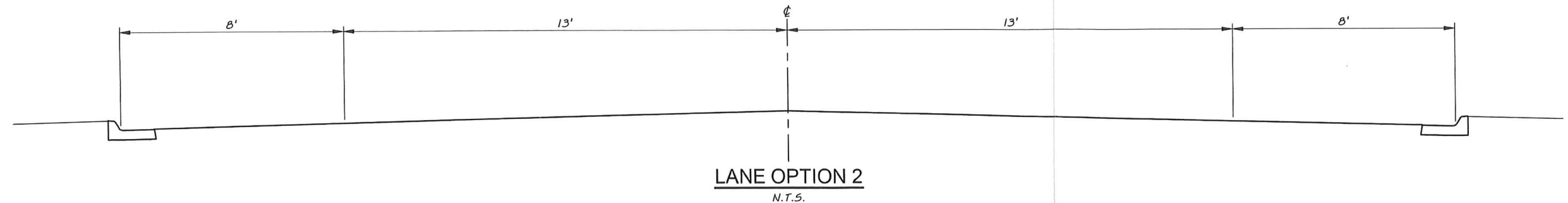
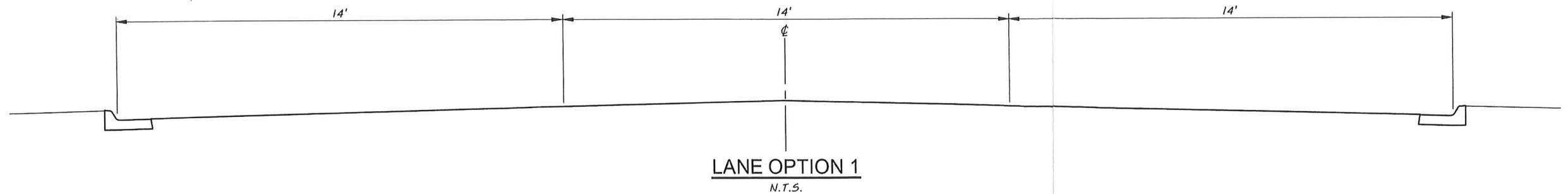
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STANDARD DRAWING

MINOR ARTERIAL CROSS SECTION

**FIGURE
ST8**



- NOTES
1. ASPHALT CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN 1 LIFT.
 2. SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY THE CITY.
 3. DEPTHS OF CRUSHED AGGREGATE BASE SHALL BE CONFIRMED BY A SITE SOILS INVESTIGATION AND APPROVED BY THE CITY.

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ORIGINAL DEVELOPMENT	MARCH 2021

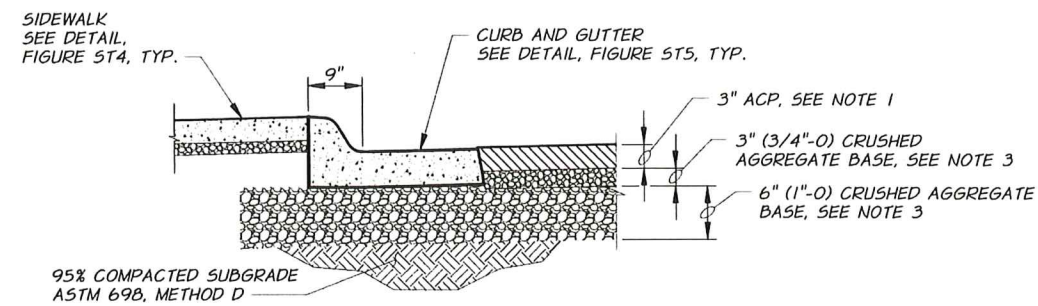
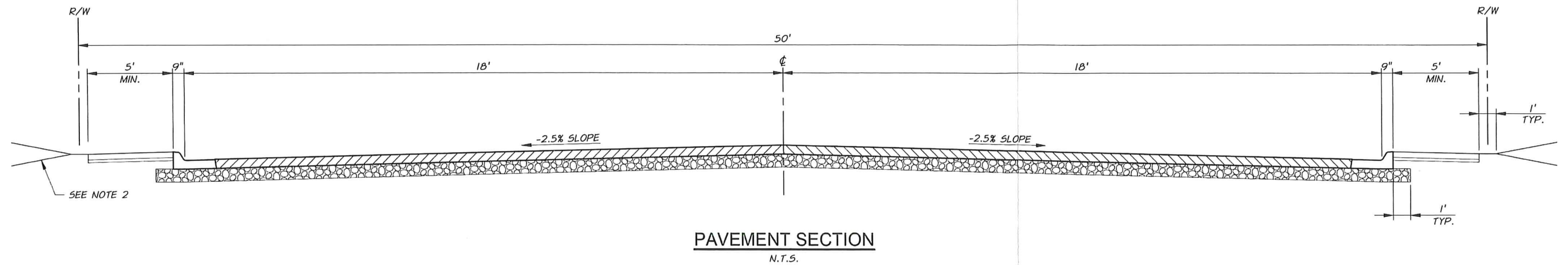


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COLLECTOR CROSS SECTION

FIGURE
ST9

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- NOTES
1. ASPHALT CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN 1 LIFT.
 2. SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY THE CITY.
 3. DEPTH'S OF CRUSHED AGGREGATE BASE SHALL BE CONFIRMED BY A SITE SOILS INVESTIGATION AND APPROVED BY THE CITY.

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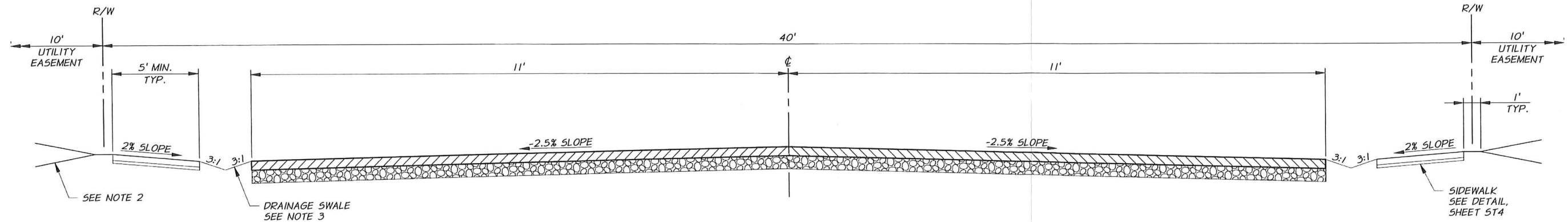


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LOCAL CROSS SECTION WITH CURB

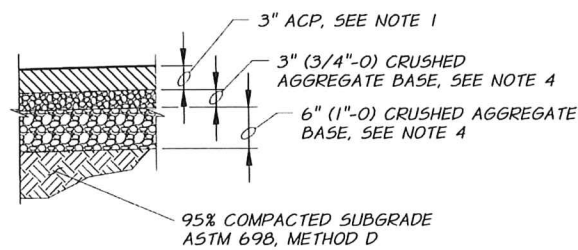
FIGURE
ST10

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PAVEMENT SECTION

N.T.S.



PAVEMENT SECTION

N.T.S.

NOTES

1. ASPHALT CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN 1 LIFT.
2. SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY THE CITY.
3. SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY THE CITY. DRAINAGE SWALE SHALL BE PLANTED WITH GRASS OR SOD OVER A MINIMUM OF 6" OF TOP SOIL.
4. DEPTHS OF CRUSHED AGGREGATE BASE SHALL BE CONFIRMED BY A SITE SOILS INVESTIGATION AND APPROVED BY THE CITY.

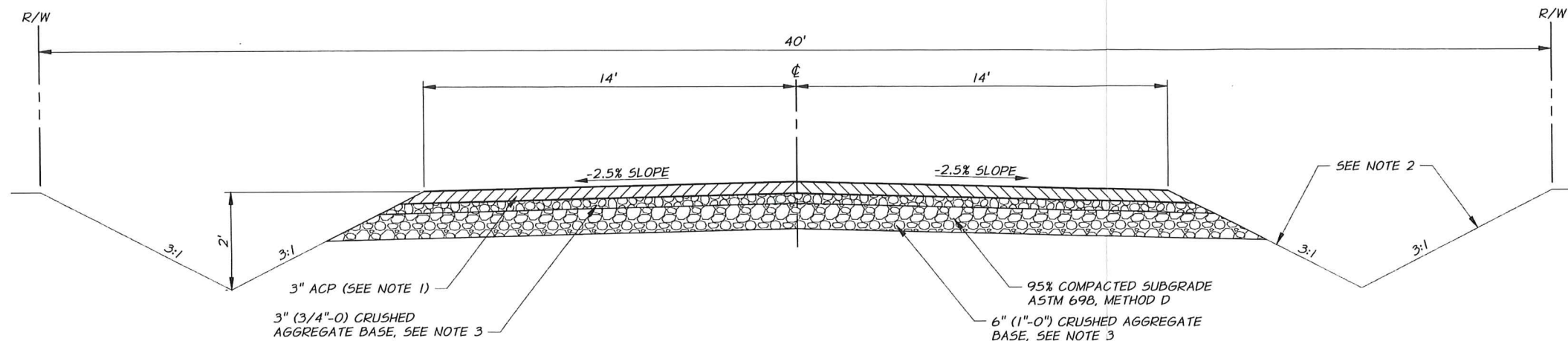
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40 FOOT RIGHT-OF-WAY SECTION
WITH SIDEWALK

FIGURE
ST11



NOTES

1. ASPHALT CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN 1 LIFT.
2. SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY THE CITY.
3. DEPTHS OF CRUSHED AGGREGATE BASE SHALL BE CONFIRMED BY A SITE SOILS INVESTIGATION AND APPROVED BY THE CITY.

PAVEMENT SECTION

N.T.S.

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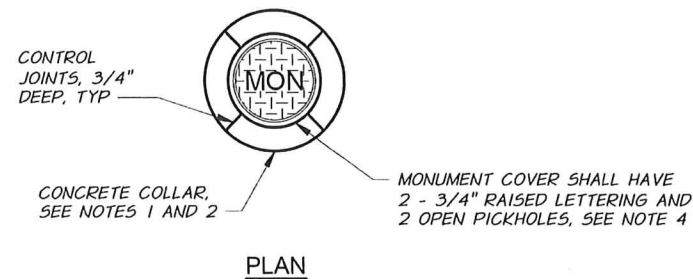
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40 FOOT RIGHT-OF-WAY ROAD
CROSS SECTION

FIGURE

ST12

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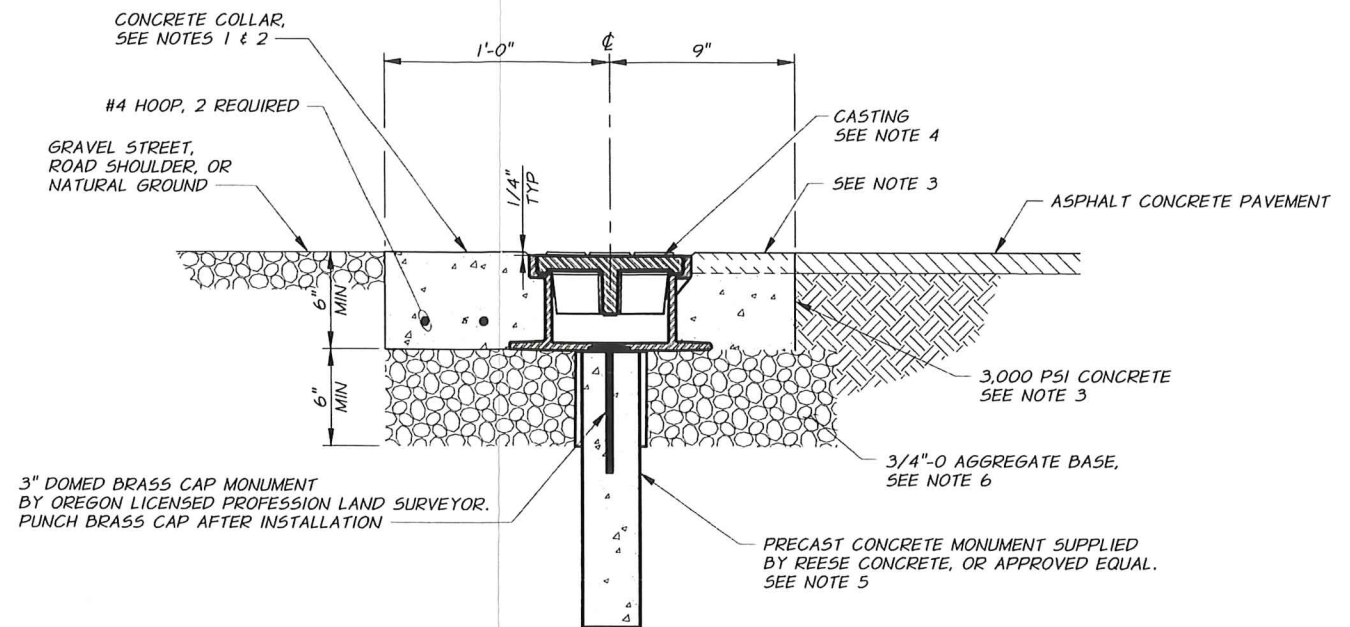


REQUIREMENTS FOR CONCRETE COLLARS

1. ALL CONCRETE SHALL BE COMMERCIAL GRADE 4000 PSI CONCRETE.
2. COLLAR TO BE FORMED CIRCULAR HAVING A DIAMETER OF 18" IN PAVED SURFACES AND 24" OTHERWISE.
3. SMOOTH BROOMED FINISH REQUIRED.
4. APPLY CONCRETE CURING COMPOUND.
5. PROTECT FROM TRAFFIC FOR 4 DAYS MINIMUM.

CONCRETE COLLAR DETAIL

NTS



NOTES

1. CONCRETE COLLAR REQUIRED IF THE MONUMENT AND MONUMENT BOX IS SET AFTER PAVEMENT WORK IS PERFORMED. IF THE MONUMENT AND MONUMENT BOX IS SET PRIOR TO PAVEMENT WORK THEN CONCRETE COLLAR IS NOT REQUIRED. SEE NOTE 3
2. ALL MONUMENTS SHALL HAVE A CONCRETE COLLAR IF INSTALLED ON GRAVEL STREET, ROAD SHOULDER, OR NATURAL GROUND.
3. IF MONUMENTS ARE SET PRIOR TO PAVEMENT WORK, CONCRETE MAY BE LEFT 2" BELOW FINISH GRADE AND FINISHED WITH ACP.
4. CASTING FRAME AND COVER SHALL BE EAST JORDAN PRODUCT #00368004 OR APPROVED EQUAL MEETING AASHTO H20 REQUIREMENTS.
5. PRECAST CONCRETE MONUMENT SHALL BE 5" MINIMUM DIAMETER SCHEDULE 125 PVC PIPE, 18" IN LENGTH, WITH 6" OF #3 REBAR CENTERED BELOW THE BRASS CAP.
6. COMPACT ALL AGGREGATE BASE TO 95% MAXIMUM DRY DENSITY PER ASTM D1557.

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MONUMENT BOX

FIGURE
ST13