CALC. BY J.R.B.
DATE
CHKD. BY R.D.K.
DATE

CITY OF YOUNGSTOWN
MAH-289-1.51
OAK ST.

OHIO
FHWA REGION 5

FEDERAL PROJECT M-2A40(1)
STATE PROJECT

83/84
8/9

4 T
A N [illegible] 15' [illegible] E - 5.00'
B S 60° 01' 51" E - 30.26'
C S 74° 13' 46" E - 45.07'
D S 30° 13' 17" W - 5.16'
E N 74° 13' 46" W - 44.40'
F N 60° 01' 51" W - 30.90'

7 WD
A S 30° 28' 29" W - 5.00'
B N 60° 01' 51" W - 26.16'
C N 30° 28' 29" E - 5.00'
D S 60° 01' 51" E - 26.16'

7 T
E S 60° 01' 51" E - 14.96'
F S 29° 58' 09" W - 5.00'
G N 60° 01' 51" W - 7.00'
H N 27° 53' 12" W - 9.40'

8 WD
B S 60° 01' 51" E - 50.91'
C S 30° 28' 29" W - 5.00'
D N 60° 01' 51" W - 50.91'
A N 30° 28' 29" E - 5.00'

8 T
D S 60° 01' 51" E - 50.91'
E S 30° 28' 29" W - 40.00'
F N 60° 01' 51" W - 18.76'
G N 17° 37' 49" E - 32.76'
H N 60° 01' 51" W - 24.87'
K N 30° 28' 29" E - 8.00'

9 WD
A S 16° 10' 00" W - 23.52'
B R = 30.00' L = 39.90'
CBR = N 21° 55' 52" W
CH = 37.02'
C S 60° 01' 51" E - 23.52'

9 T
A S 60° 01' 51" E - 214.57'
B R = 30.00' L = 39.90'
CBR = S 21° 55' 52" E
CH = 37.02'
C N 30° 42' 05" W - 26.22'
D N 60° 01' 51" W - 70.00'
E S 74° 58' 09" W - 7.07'
F N 60° 01' 51" W - 30.00'
G N 15° 01' 51" W - 7.07'
H N 60° 01' 51" W - 110.93'
K N 30° 28' 29" E - 10.00'

10 WD
A N 60° 01' 51" W - 31.88'
B R = 25.00' L = 45.29'
CBR = N 69° 04' 05" E
CH = 39.35'
C S 16° 10' 00" W - 31.88'

10 R
A S 16° 10' 00" W - 15.23'
B S 89° 54' 00" W - 93.25'
C N 17° 51' 00" E - 15.37'
D N 89° 54' 00" E - 92.78'

10 T
D N 17° 51' 00" E - 5.11'
E S 69° 41' 25" E - 29.80'
F S 60° 01' 51" E - 30.00'
G S 33° 27' 56" E - 11.18'
H N 67° 18' 53" E - 32.66'
B R = 25.00' L= 45.29'
CBR = S 68° 04' 05" W
CH - 39.35'
C N 60° 01' 51" W - 63.84'

10 T-1
A S 16° 10' 00" W - 15.23'
E S 89° 54' 00" W - 38.95'
F N 72° 55' 20" W - 47.83'
G S 17° 04' 40" W - 14.78'
H S 89° 54' 00" W - 4.24'
C N 17° 51' 00" E - 15.37'
D N 89° 54' 00" E - 92.78'

11 R **11 T-1**
C S 17° 51' 00" W - 15.37'
D S 89° 54' 00" W - 88.24'
A N 16° 55' 50" E - 15.30'
B N 89° 54' 00" E - 88.50'

11 T
A N 60° 01' 51" W - 84.67'
B N 16° 55' 50" E - 5.13'
C S 60° 01' 51" E - 84.76'
D S 17° 51' 00" W - 5.11'

12 WD
A N 16° 06' 34" E - 43.07'
B S 89° 54' 00" E - 43.33'
C S 29° 58' 09" W - 63.52'
D N 60° 01' 51" W - 27.18'

12 R **12 T-1**
A S 16° 55' 50" W - 15.30'
B S 89° 54' 00" W - 47.10'
C N 29° 58' 09" E - 16.90'
D N 89° 54' 00" E - 43.11'

12 T
C N 60° 01' 51" W - 57.03'
D N 29° 58' 09" E - 5.00'
E S 60° 01' 51" E - 55.87'
B S 16° 55' 50" W - 5.13'

12A WD
H N 89° 54' 00" E - 10.00'
E S 00° 06' 00" E - 5.00'
F S 89° 54' 00" W - 10.00'
G N 00° 06' 00" W - 5.00'

12A R
A N 89° 54' 00" E - 128.25'
B R = 1007.78' L = 15.71'
CBR = S 21° 20' 34" W
CH = 15.71'
C S 89° 54' 00" W - 124.40'
D N 07° 16' 00" E - 14.75'

12A T
J N 89° 54' 00" E - 65.00'
G S 00° 06' 00" E - 5.00'
F N 89° 54' 00" E - 10.00'
E N 00° 06' 00" W - 5.00'
K N 89° 54' 00" E - 53.25'
B R = 1007.78' L = 15.71'
CBR = S 21° 20' 34" W
CH = 15.71'
C S 89° 54' 00" W - 124.40'
D N 07° 16' 00" W - 14.75'

12B WD
C N 00° 31' 47" W - 29.90'
D S 68° 13' 25" E - 39.99'
A S 00° 31' 47" E - 15.00'
B S 89° 54' 00" W - 37.00'

15 R
A S 89° 54' 00" W - 130.97'
B N 60° 01' 51" W - 29.19'
C N 89° 54' 00" E - 159.33'
D S 11° 51' 32" W - 14.95'

15 T
A S 89° 54' 00" W - 130.97'
B N 60° 01' 51" W - 29.19'
E N 60° 01' 51" W - 52.15'
F S 72° 07' 00" E - 47.71'
G S 60° 01' 51" E - 22.75'
H N 89° 54' 00" E - 139.40'
D S 11° 51' 32" E - 14.95'

16 R
A N 11° 51' 32" E - 14.95'
B N 89° 54' 00" E - 14.82'
C S 11° 51' 32" W - 14.95'
D S 89° 54' 00" W - 14.82'

16 R-1
S S 89° 54' 00" W - 59.16'
T N 11° 51' 32" E - 14.95'
O N 89° 54' 00" E - 62.56'
P S 23° 51' 41" W - 16.00'

16 T
A N 11° 51' 32" E - 14.95'
B N 89° 54' 00" E - 14.82'
E S 11° 51' 32" W - 7.62'
F S 78° 08' 28" E - 35.00'
G N 11° 51' 32" E - 21.96'
H N 78° 08' 28" E - 52.32'
J S 11° 51' 32" W - 7.32'
K N 78° 08' 28" E - 14.00'
L N 15° 25' 27" E - 9.34'
M N 78° 08' 28" E - 28.24'
N N 11° 51' 32" E - 11.22'
O N 89° 54' 00" E - 62.56'
P S 23° 51' 41" W - 16.00'
R S 89° 54' 00" W - 207.01'

16A WD
E S 34° 08' 00" W - 6.05'
F S 89° 54' 00" W - 6.72'
G N 00° 06' 00" W - 5.00'
H N 89° 54' 00" E - 10.12'

16A R
C & H N 89° 54' 00" E - 122.75'
D S 34° 08' 00" W - 17.69'
A S 89° 54' 00" W - 115.85'
B N 11° 40' 30" E - 14.94'

16A T
C N 89° 54' 00" E - 112.63'
G S 00° 06' 00" E - 5.00'
F N 89° 54' 00" E - 6.72'
J S 34° 08' 00" W - 11.64'
A S 89° 54' 00" W - 115.85'
B N 11° 40' 30" E - 14.94'

17 R **17 T**
A N 89° 54' 00" E - 73.04'
B S 11° 40' 30" W - 14.94'
C S 89° 54' 00" W - 74.26'
D N 16° 10' 00" E - 15.23'

18
M S 89° 54' 00" W - 39.18'
J N 12° 54' 00" E - 71.84'
K N 89° 54' 00" E - 40.27'
L R = 1112.78' L = 72.11'
CBR = S 13° 44' 32" W
CH = 72.09'

18-1
A N 00° 06' 00" E - 5.00'
B N 89° 54' 00" E - 6.04'
C S 00° 06' 00" W - 5.00'
D S 89° 54' 00" W - 6.04'

18-2
E N 00° 06' 00" E - 5.00'
F N 89° 54' 00" E - 10.00'
G S 00° 06' 00" W - 5.00'
H S 89° 54' 00" W - 10.00'

18 R
P N 23° 51' 41" E - 16.00'
R N 89° 54' 00" E - 289.18'
S S 12° 54' 00" W - 15.01'
N S 89° 54' 00" W - 292.30'

18A R
A N 89° 54' 00" E - 18.15'
B S 34° 08' 00" W - 17.69'
C S 89° 54' 00" W - 18.15'
D N 34° 08' 00" E - 17.69'

18B
F S 24° 20' 00" W - 65.90'
G S 89° 54' 00" W - 17.86'
H N 40° 54' 21" W - 26.42'
J N 12° 54' 00" E - 41.05'
E N 89° 54' 00" E - 53.15'

18B R
A N 89° 54' 00" E - 41.03'
B S 12° 54' 00" W - 15.01'
C S 89° 54' 00" W - 41.17'
D N 13° 22' 30" E - 15.04'

19 WD
K S 89° 54' 00" W - 42.34'
L R = 1112.78' L = 72.11'
CBR = N 13° 44' 32" E
CH = 72.09'
M S 68° 13' 25" E - 26.55'
N S 00° 31' 47" E - 60.11'

20 WD
H N 89° 54' 00" E - 10.00'
E S 00° 06' 00" E - 5.00'
F S 89° 54' 00" W - 10.00'
G N 00° 06' 00" W - 5.00'

20 R
C N 89° 54' 00" E - 76.74'
D S 07° 16' 00" W - 14.75'
A S 89° 54' 00" W - 84.80'
B N 34° 08' 00" E - 17.69'

20 T
J N 89° 54' 00" E - 33.78'
G S 00° 06' 00" E - 5.00'
F N 89° 54' 00" E - 10.00'
E N 00° 06' 00" W - 5.00'
K N 89° 54' 00" E - 22.96'
D S 07° 16' 00" W - 14.75'
A S 89° 54' 00" W - 84.80'
B N 34° 08' 00" E - 17.69'

21 R **21 T**
C N 89° 54' 00" E - 36.34'
D S 13° 22' 30" W - 15.04'
A S 89° 54' 00" W - 38.57'
B R = 1007.78' L = 15.71'
CBR = N 21° 20' 34" E
CH = 15.71'

21A WD
A N 00° 31' 47" W - 41.98'
B S 68° 13' 25" E - 32.42'
C S 00° 31' 47" E - 29.90'
D S 89° 54' 00" W - 30.00'

22 T
F S 89° 54' 00" W - 32.00'
A N 00° 31' 47" W - 15.00'
B N 89° 54' 00" E - 10.77'
C S 00° 06' 00" E - 14.00'
D N 89° 54' 00" E - 21.34'
E S 00° 31' 47" E - 1.00'

23 T
A N 00° 31' 47" W - 3.50'
B N 89° 54' 00" E - 19.50'
C S 00° 06' 00" E - 3.50'
D S 89° 54' 00" W - 19.48'

23 T-1
E N 00° 06' 00" W - 3.50'
F N 89° 54' 00" E - 33.50'
G S 88° 41' 39" E - 15.88'
H S 00° 06' 00" E - 2.96'
J S 89° 20' 28" W - 15.85'
K S 89° 54' 00" W - 33.52'

23 T-2
L S 89° 20' 28" W - 20.15'
M N 00° 06' 00" W - 2.78'
N S 88° 41' 39" E - 20.14'
P S 00° 31' 47" E - 2.09'

24 WD
A N 89° 54' 00" E - 16.81'
B S 00° 27' 55" E - 20.00'
C S 50° 02' 40" W - 54.61'
D N 24° 20' 00" E - 60.41'

25 WD
C N 89° 54' 00" E - 33.00'
D S 00° 27' 55" E - 16.25'
A S 83° 24' 44" W - 33.19'
B N 00° 27' 55" W - 20.00'

26 WD
B S 00° 27' 55" E - 12.50'
C S 83° 24' 44" W - 33.19'
D N 00° 27' 55" W - 16.25'
A N 89° 54' 00" E - 33.00'

26A WD
B S 00° 27' 55" E - 5.00'
C S 83° 24' 44" W - 33.19'
D N 00° 27' 55" W - 8.75'
A N 89° 54' 00" E - 33.00'

27 WD
C N 89° 54' 00" E - 33.00'
D S 00° 27' 55" E - 8.75'
A S 83° 24' 44" W - 33.19'
B N 00° 27' 55" W - 12.50'

28 WD
D S 00° 27' 55" E - 24.84'
E R = 25.00' L = 23.02'
CBR = N 26° 50' 52" W
CH = 22.22'
F S 39° 54' 00" W - 19.03'
G S 00° 06' 00" E - 3.00'
H S 89° 54' 00" W - 4.00'
J N 00° 06' 00" W - 3.00'
A S 89° 54' 00" W - 33.10'
B N 00° 27' 55" W - 5.00'
C N 89° 54' 00" E - 66.00'

26 T
SEE SHEET 7

Revised
Sheet Completed Date: 1/15/86
R/W to