INDEX OF SHEETS

SHEET NO 1. TITLE PAGE.

" " 3. Plan and Profile, Sta 5+00 to Sta 30+00
" " 4. " " " " 30+00 " " 60+00
" " 5. " " " " 60+00 " " 90+00
" " 6. " " " " 90+00 " " 120+00
" " 7. " " " " 120+00 " " 150+00
" " 8. " " " " 150+00 " " 180+00
" " 9. " " " " 180+00 " " 210+00
" " 10. " " " " 210+00 " " 240+00
" " 11. " " " " 240+00 " " 270+00
" " 12. " " " " 270+00 " " 300+00
" " 13. " " " " 300+00 " " 330+00
" " 14. " " " " 330+00 " " 360+00
" " 15. " " " " 360+00 " " 379+28

STATE OF NEBRASKA
DEPARTMENT OF ROADS
BUREAU OF HIGHWAYS
PLAN AND PROFILE OF PROPOSED

STATE HIGHWAY

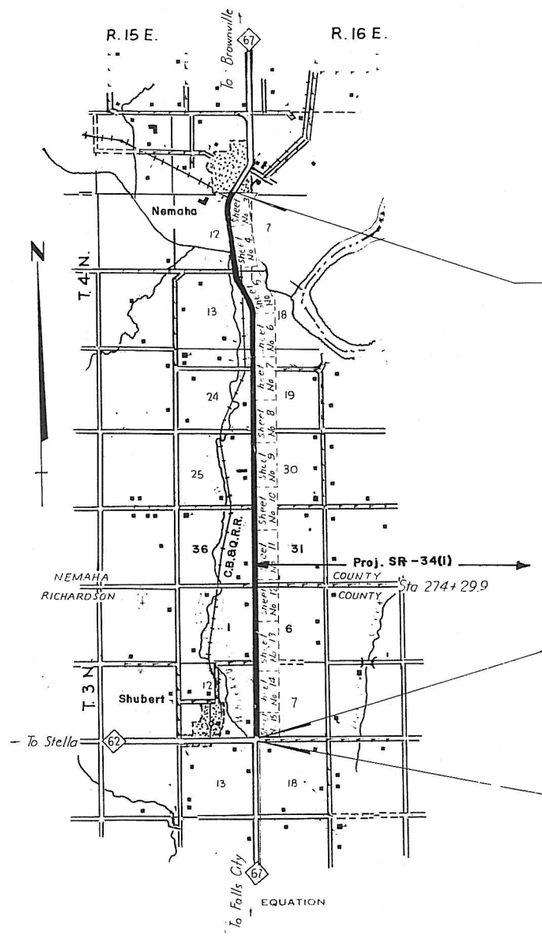
FEDERAL AID SECONDARY PROJECT NO. S-421 (6)

NEMAHA - SHUBERT

NEMAHA & RICHARDSON COUNTIES

The 1965 Standard Specifications of Nebraska approved by the Bureau of Public Roads on December 30, 1964, the supplemental Specifications dated January 3, 1967 and the Special Provisions apply to this project

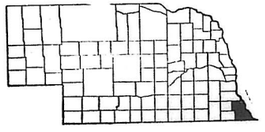
Drawn R. Wright
Date Dec., 1968



Sta. 5+00 = Sta. 68+00 of Proj. S-421 (4)
Begin Proj. S-421 (6)
Begin Construction
Begin Bituminous Surfacing

Sta 379+28
End Proj. S 421 (6)
End Construction
End Bituminous Surfacing

Sta. 380+23.5 = Sta 474+08.3 of Proj. S 379 (4)



LEGEND

PREVIOUS R.O.W.
NEW R.O.W., NON-CONTROLLED ACCESS
NEW R.O.W., CONTROLLED ACCESS
LIMITS OF CONSTRUCTION
CHANNEL
DIKE
R.R. EASEMENT
ACCESS ROAD
ENCROACHMENT
TEMPORARY EASEMENTS: BORROW-CONSTRUCTION-ROAD-DETOUR-WASTE DISPOSAL-ETC.
SCALE 1" = 200' UNLESS OTHERWISE NOTED

CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
CITY or VILLAGE LIMITS
SECTION LINE
FENCE LINE
GUARD RAIL
RAILROADS
RIGHT-OF-WAY LINE
R.O.W. & CONTROLLED ACCESS LINE
CONTROLLED ACCESS LINE
TRAVELED WAY
BASE or SURVEY LINE
DYKE
CULVERTS
POWER POLE
TELEPHONE or TELEGRAPH POLE
MARSH
HEDGE
TREES
GROUND ELEVATION
GRADE ELEVATION

EXCEPTIONS

FROM STA 44+85.9 TO STA 48+87.4 INCLUDED IN THIS LAYOUT

TOTAL LENGTH OF EXCEPTIONS 401.5 FEET
TOTAL NET LENGTH OF Proj S-421 (6) 37,026.50 FEET 7.012 MILES

REGISTERED PROFESSIONAL ENGINEER ROBERT N. RIDDLE E-255 STATE OF NEBRASKA

REGISTERED PROFESSIONAL ENGINEER JOHN W. HORSACK E-302

APPROVED May 24 1965

ASST. DESIGN ENGINEER

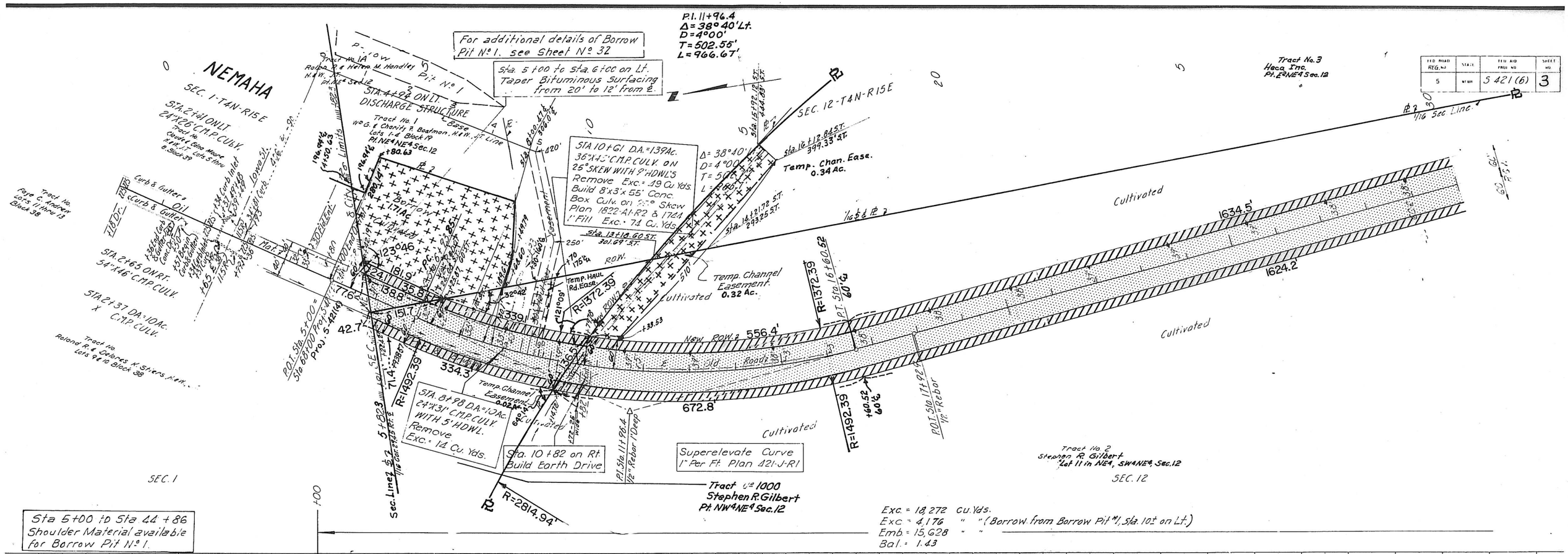
STATE ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

DATE

FED ROAD REG. NO	STATE	FED AID PROJ NO	SHEET NO
5	NEBR	S 421 (6)	3



FED ROAD REG NO	STATE	*FED AID PROJ NO	SHEET NO
5	NEBR	S-421(6)	4

Sta. 32+86
Build 24"x 64' Culv. Pipe with Flared End Sections on 15° Skew, Plan 1844-D-R2.
Exc. = 49 Cu. Yds

Sta. 32+86 on Lt. Build Earth Drive.

Sta. 32+86 on Rt. Build Earth Drive.

Tract No 3
Heco Inc.
Lot 8 (W. of R.R. R.O.W.) & Lot 4, Sec. 12

SEC 12-T4N-R15E

STA. 41+00
24"X52' C.M.P. CULV. & HDWLS.
Remove Headwalls, Extend 24' Lt. & 22' Rt. Install Metal Flared End Sections.
Plan 1844-D-R2, 2-Conn. Bands. Exc. = 8 Cu. Yds.

Sta. 44+50 on Lt. Build Earth Drive.

Sta. 44+50 on Rt. Build Earth Drive

Cultivated

Brush & Trees

Tract No 3
Heco Inc.
Lot 2 of Lot 7 In Sec. 12

SEC. 12

STA. 46+87
21'X401.5' MULTIPLE SPAN BRIDGE #1526 WITH 18' WOOD WINGS.
Use in Place.

NEMAHA RIVER

STA. 49+98
24"X72' C.M.P. CULV. & HDWLS.
Remove Headwalls, Extend 20' Rt. & 20' Lt. Install Metal Flared End Sections.
Plan 1844-D-R2, 2-Conn. Bands. Exc. = 6 Cu. Yds.

Sta. 49+36 on Lt. Build Earth Drive.

Sta. 49+30 on Rt. Build Earth Drive

Shoulder Material

Tract No 4
Lloyd H. & Darlene E. Davis H.&W., J.T.
Lot 3, SW¼ SE¼ Sec. 12

Tract No 3
Heco Inc.
All Lot 4 SE¼SE¼ Sec 12

STA. 53+83 ON LT.
18"X23' C.M.P. D.R. CULV.
Remove, Relay, Extend 8' and Build Earth Drive. 1-Conn. Band.

STA. 50+90 ON RT.
36"X41' C.M.P. CULV WITH 7' HDWLS.
Use in Place

Build 3-Way Intersection, see Sheet 2-K1

B.M.#4 Spike In Tel. Pole 39' Lt. Sta. 34+24 Elev. = 886.22

Sta. 44+85.9
Stop Proj. S-421(6)
Stop Construction
Stop Bituminous Surfacing

B.M.#5 "X" S.E. Cor. Conc. Bridge Abut. 13' Lt. Sta. 48+88 Elev. = 901.19

Sta. 48+87.4
Resume Proj. S-421(6)
Resume Construction
Resume Bituminous Surfacing

B.M.#6 U.S.G.S. Brass Cap #P-260 (1947) 48' Rt. Sta. 59+23 Elev. = 887.14

Sta. 39+00
Elev. = 893.00
V.C. = 400'

Sta. 43+35
Elev. = 900.84
V.C. = 300'

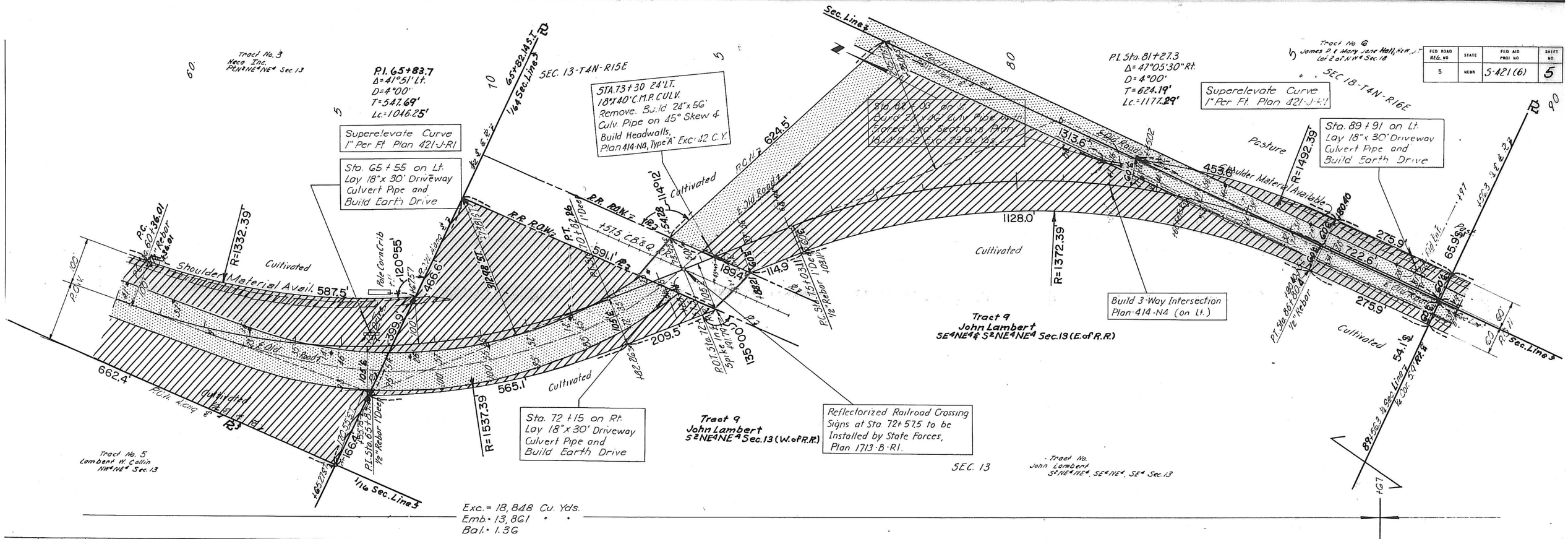
Sta. 50+90
Elev. = 900.70
V.C. = 400'

Sta. 56+00
Elev. = 890.50
= 400'

0.0000 %
+1.8002 %
+0.2000 %
-0.1970 %
-2.000 %
+0.1267 %

Datum Elev. = 830.00 Sea Level U.S.C. & G.S.

FED ROAD REG. NO	STATE	FED AID PROJ NO	SHEET NO.
5	NEBR	S-421(6)	5



FED. ROAD REG. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
5	NEBR	S-421(6)	6

Tract No 7
Lloyd H. & Darlene E. Davis, H&W, J.T.
Lot 1 of 3, E
Pt. Lot 2 of 3, In SW¼ Sec. 18

SEC. 18-T4N-R16E

STA. 96+87 ON LT. DA=8Ac.
24"X20' C.M.P. DR. CULV. Remove, Relay, Extend 12' and Build Earth Drive.
1-Conn. Band.

Sta. 106+00 on Lt.
Build Earth Dike To Elev. = 947.5

Sta. 107+50 on Lt.
Build Earth Dike To Elev. = 948.0

Tract No 8
Clyde & Lola Kennedy, H&W, J.T.
Pt. Lot 2 of 3, SW¼SW¼ Sec. 18
Lot 1, Sec. 19
E½ NE¼ Sec. 24

Sta. 107+00 to Sta. 116+50 on Lt.
Build Intercepting Dike as shown on Sketch on Sheet No. 3.

STA. 117+72 D.A.=60Ac.
4'X4'X51' BROKEN-BACK CONC. BOX CULV. Remove Lt Endwall, Plan 1823-R2 & Extend 15' as Broken Back, Remove Rt. Endwall & 2' of Barrel, Plan 1823-R2 & Extend 82.5' as Broken Back with 1-45° Horiz. Elbow, Plan S-421(6)-1C, 1742-B, 1744, 1744-A, 7' Fill
Exc. = 72 Cu. Yds.

SEC. 19-T4N-R16E

Sta. 118+52 on Lt.
Build Earth Drive.

Pasture
Shoulder Material Available
843.7'
1368.4'
1443.7'
Old Road
Sec. Line
Pasture On Rocky Hill
525.5'
93°16'
91.1'
Pasture On Rocky Hill
2638.2'
1269.8'
1269.8'
Pasture
700.0'
167.4'
335.0'
2636.1'
96.6'
160.6'
254.0'
Hedge
Cultivated Soil Bank
Cultivated
206.2'
208.8'
Pasture
Pasture
Pasture
Brush
Fence
Sec. Cor. 33°21' E
86.7'
73.3'
115+44.5 Sec. Line ℄ E.
Empty Hd.
Tel. Ent.
Well
Well Ho.

STA. 92+37 D.A.=78Ac.
5'X4'X54' DOUBLE BROKEN-BACK CONC. BOX CULV. ON 20° SKEW.
Remove End walls. Plan 1823-R2
Extend 6' Lt. & 16' Rt. on 20° Skew.
Plan 1742-B & 1744. 3' Fill.
Exc. = 26 Cu. Yds.

Sta. 102+03 on Rt.
Build Earth Drive.

Sta. 106+45
Build 30"X110' Double Broken Back Culvert Pipe on 15° Skew. Install Flared End Sections. Plan 1844-D-R2
2-23° Elbows. Plan 414-J-R4.
Exc. = 110 Cu. Yds.

STA. 106+59 D.A.=11Ac.
24"X64' C.M.P. CULV. Plug Ends as shown on Sheet #15 and Abandon.

R.O.T. Sta. 106+61.0
½" Rebar
R.O.T. Sta. 110+00 ± 8'
½" Rebar

STA. 113+99 ON RT.
24"x20' C.M.P. DR. CULV.
Remove. Lay 18"x30' Driveway Culvert Pipe and Build Earth Drive.

Sta. 117+58.5 - 79' Rt.
Build 24"x26' Corr. Metal Culv. Pipe with Metal Flared End Section on Inlet and Headwall & 8' Overhang on Outlet. Plan 1844-D-R2 & 1844-A-R2. Exc. = 3 Cu. Yds.

Tract No 9
John Lambert, Sale Owner
E½SE¼ Sec. 13

SEC. 13-T4N-R15E

SEC. 24-T4N-R15E

Exc. = 1,208 Cu. Yds.
Emb. = 891 " "
Bal. = 1.36

Exc. = 291 Cu. Yds.
Emb. = 216 " "
Bal. = 1.35

Exc. = 2,896 Cu. Yds.
Emb. = 2,138 " "
Bal. = 1.35

Exc. = 1,124 Cu. Yds.
Emb. = 832 " "
Bal. = 1.35

Exc. = 5,268 Cu. Yds.
Emb. = 3,895 " "
Bal. = 1.35

B.M.#8 "X" No. End East Hdwl. 19' Lt.
Sta. 92+40 Elev. = 918.92

B.M.#9 Spike In 36" Tree 79' Lt.
Sta. 106+61 Elev. = 950.44

B.M.#10 - U.S.G.S. Brass Cap #Q 260 (1947) 30' Rt.
Sta. 113+05 Elev. = 937.16

B.M.#11 "X" N. End East Hdwl. 20' Lt.
Sta. 117+70 Elev. = 931.56

Sta. 96+00
Elev. = 919.97
V.C. = 800'

Sta. 106+50
Elev. = 950.72
V.C. = 1000'

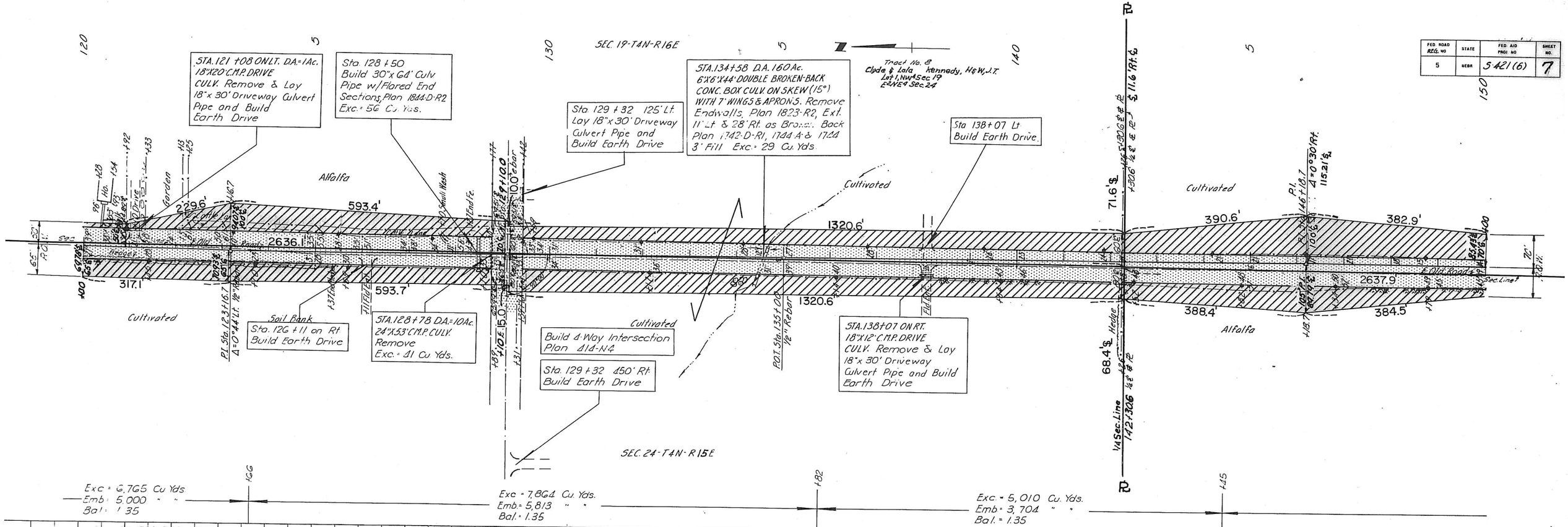
Sta. 116+25
Elev. = 932.66
V.C. = 500'

-10.2400%
13.5000%
2.8677%
13.5000%

960
950
940
930
920
910
900
890

Datum Elev. = 880.00 Sea Level U.S.C. & G.S.

FED. ROAD REG. NO	STATE	FED. AID PROJ. NO	SHEET NO.
5	NEBR	S-421(6)	7



FED. ROAD REG. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
5	NEBR.	S-421 (6)	8

SEC. 19-T4N-R16E

Tract No. 10
Marion J. Hurd
W½SW¼ Sec. 19
W2NW4 Sec. 30
W2SW4 Sec. 30

SEC. 30-T4N-R16E

STA. 152+22 ON LT. DA=2Ac. 24"X20' C.M.P. DRIVE CULV. Remove

STA. 154+12 D.A.=40Ac. 42"X60' C.M.P. CULV. Remove Exc.=135 C.Y.

Sta. 151+50 on Lt. Lay 24"x 32' Driveway Culvert Pipe & Build Earth Drive

Sta. 166+30 on Lt. Lay 18"x 30' Driveway Culvert Pipe & Build Earth Drive

Build 4-Way Intersection Plan 414-N4

STA. 179+84 D.A.=181Ac. 6'X6'X47' CONC. BOX CULV. WITH 7' WINGS & 3' DROP INLET. Remove Endwalls Plan 1823-R? Ext. 32' Lt. as Broken Back & 24' Rt. as Broken Back, Plan 1742-D-R1 & 1744-A, 13' Fill, Exc.=32 C.Y.

Sta. 178+82 on Lt. Build Earth Drive

Cultivated

Cultivated

Cultivated

Past.

Shoulder Material Available

1328.0'

472.0'

1150.0'

2637.9

2642.7

237.0

141.2'

131.5'

1300.0'

925.0'

107.7

436.4'

432.7

516.5

411.5'

483.5

436.2

Garden

Past.

Cultivated

Alfalfa

Cultivated

STA. 151+61 ON RT. 18"X20' C.M.P. DRIVE CULV. Remove & Lay 18"x 30' Driveway Culv. Pipe & Build Earth Drive.

STA. 156+23 ON RT. D.A.=7Ac. 18"X20' CONC. PIPE DRIVE CULV. Remove & Lay 24"x 32' Driveway Culvert Pipe & Build Earth Drive

Sta. 157+00 to Sta. 166+00 on Rt Build Intercepting Dike as shown on Sheet No. 3

Sta. 154+00 Build 48"x 122' Double Broken Back Culv. Pipe on 20° Skew with Flared End Sections Plan 1844-D-R2, 2-15° Elbows Plan 414-J-R4 Exc.=126 Cu. Yds.

Tract No. 11
Gilbert McCandless, et al
E2 SE4 Sec. 24

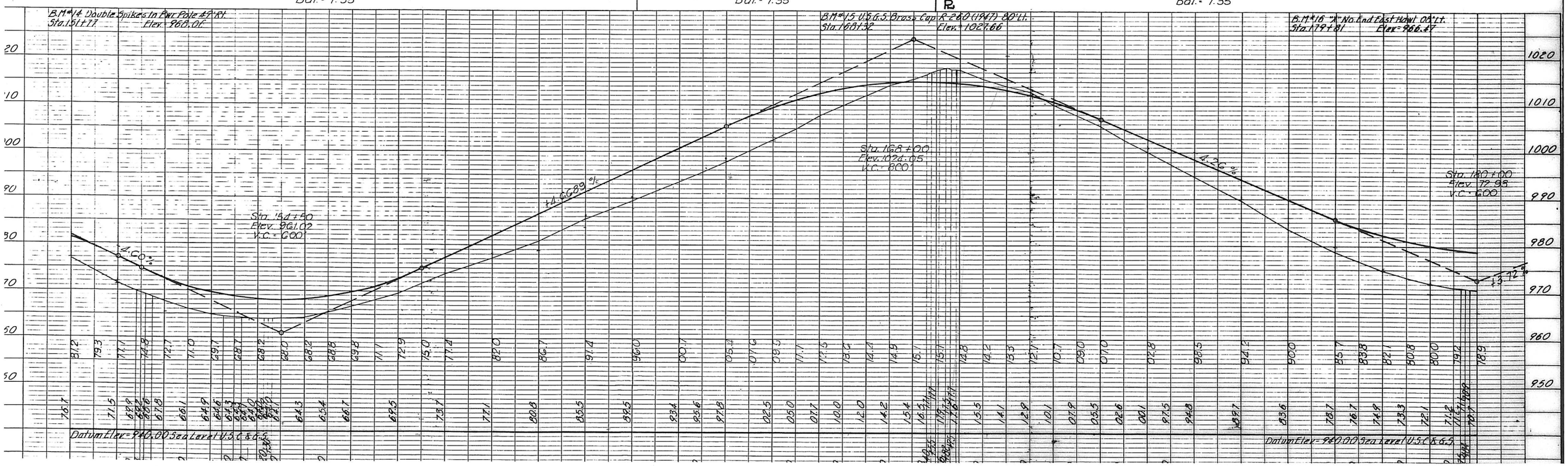
SEC. 24-T4N-R15E

SEC. 25-T4N-R15E

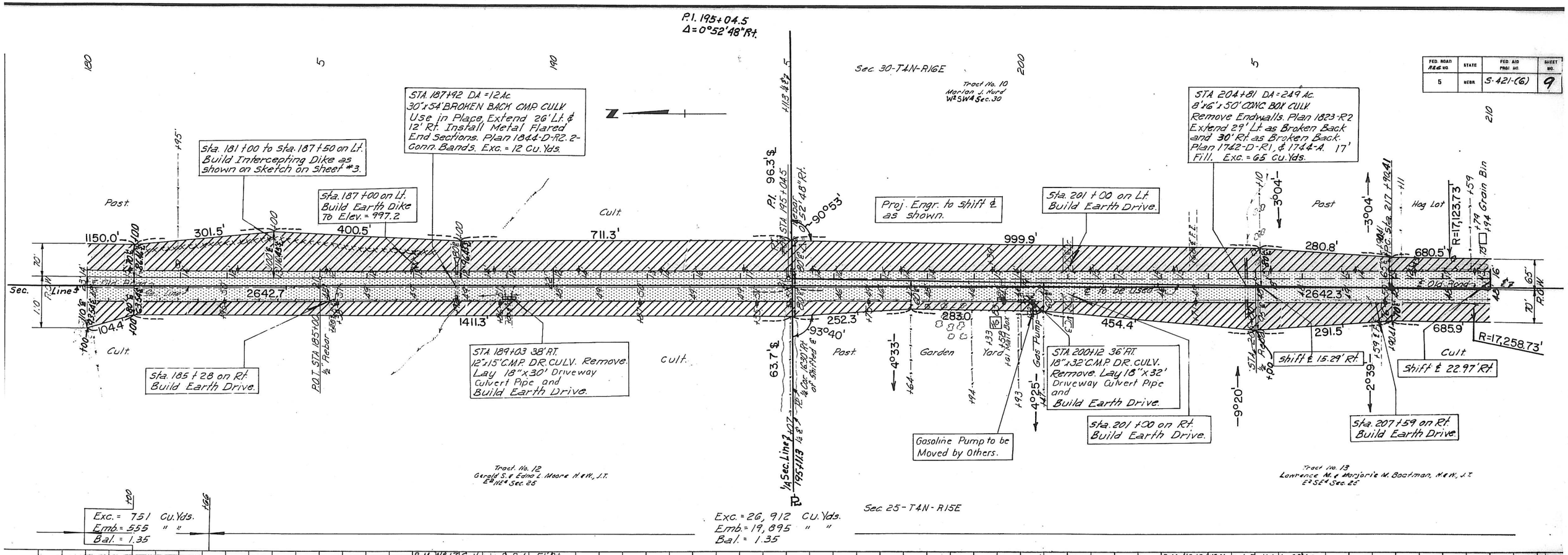
Exc.=16,814 Cu. Yds.
Emb.=12,427 " "
Bal.=1.35

Exc.=7,834 Cu. Yds.
Emb.=5,790 " "
Bal.=1.35

Exc.=12,631 Cu. Yds.
Emb.=9,337 " "
Bal.=1.35



FED. ROAD REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
5	NEBR.	S-421-(6)	9



FED. ROAD ADM. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
5	MISS.	S-421-(6)	10

P.I. Sta. 211+320
Δ = 2°16' 37" Lt.
D = 0°20'
T = 341.59'
L = 683.08'

Sec. 30-T4N-R16E

STA. 211+34 04' LT. DA = 5 Ac.
24" x 20' C.M.P. DR. CULV.
Remove. Lay 24" x 32'
Driveway Culvert Pipe
and Build
Earth Drive.

Sta. 215+00 on Lt.
Build Earth Drive.

Build 4-Way Intersection, See Sheet No. 2-K1

Sta. 219+25 on Lt.
Build Earth Driv
To Elev. = 1011.00

STA. 221+56-11' LT.
24" x 44' C.M.P. CULV.
Remove. Exc. = 15
Cu. Yds.

P.I. Sta. 221+75.1
Δ = 1°23'49" Rt.
D = 0°20'
T = 209.55'
L = 419.08'

STA. 221+57 - 193' LT.
24" x 46' C.M.P. CULV.
Use in Place, Extend
4' on Outlet as Broken
Back and Install Metal
Flared End Sections.
Plan 1844-D-R2, 1-7°
Elbow & 1-Conn. Band.

Sec. 31-T4N-R16E

Tract No. 15
Nino M. Baker
W½NW4 Sec. 31

STA. 229+04-01' LT. DA = 1 Ac.
24" x 20' C.M.P. DR. CULV.
Remove. Lay 24" x 32'
Driveway Culvert
Pipe and
Build Earth Drive.

STA. 235+51 DA = 65 Ac.
4' x 4' x 59' DOUBLE BROKEN BACK
CONC. BOX CULV. DROP INLET LT.
Remove Endwalls, Plan 1823-R2
Extend 25' Rt. & 31' Lt. as Broken
Back. Plan 1742-B, & 1744-A.
11' Fill. Exc. = 26 Cu. Yds.

STA. 238+55 03' LT.
24" x 24' C.M.P. DR. CULV. Remove,
Relay, Extend 8' and
Build Earth Drive. 1-Conn. Band.

Shoulder Material Available

STA. 218+63 DA = 25 Ac.
30" x 53' C.M.P. CULV.
Remove. Exc. = 54
Cu. Yds.

STA. 221+55-44' RT. DA = 2 Ac.
24" x 44' C.M.P. CULV.
Remove. Build 24" x 36'
Culvert Pipe with Flared
End Sections. Plan 1844-
D-R2, Exc. = 28 Cu. Yds.

Sta. 218+75
Build 36" x 132' Culvert Pipe
on 45° Skew and Headwalls,
Plan 414-N4, Type "A".
Exc. = 85 Cu. Yds.

STA. 232+72 39' RT.
12" x 14' C.M.P. DR. CULV.
Remove.

STA. 233+93-41' RT.
18" x 24' C.M.P. DR. CULV.
Remove. Lay 18" x 42'
Driveway Culvert Pipe
and
Build Earth Drive.

Temporary Construction Easement 0.28 Ac.

Grape Vines

Tract No. 14
Robert E. & Eugene Catron
E½NE4 Sec. 36

Proj. Engr. to Relocate ℄ as shown.

Shift P.I. 25.00' Rt.
Shift ℄ 22.97' Rt.
Shift ℄ 16.59' Rt.

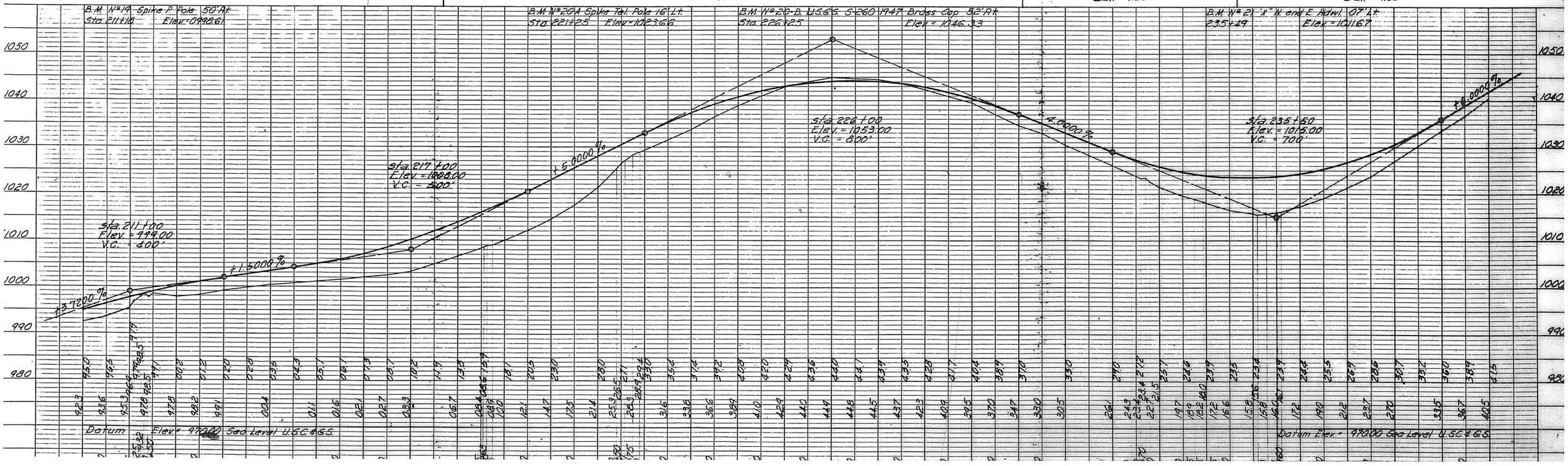
Sec. 25-T4N-R15E

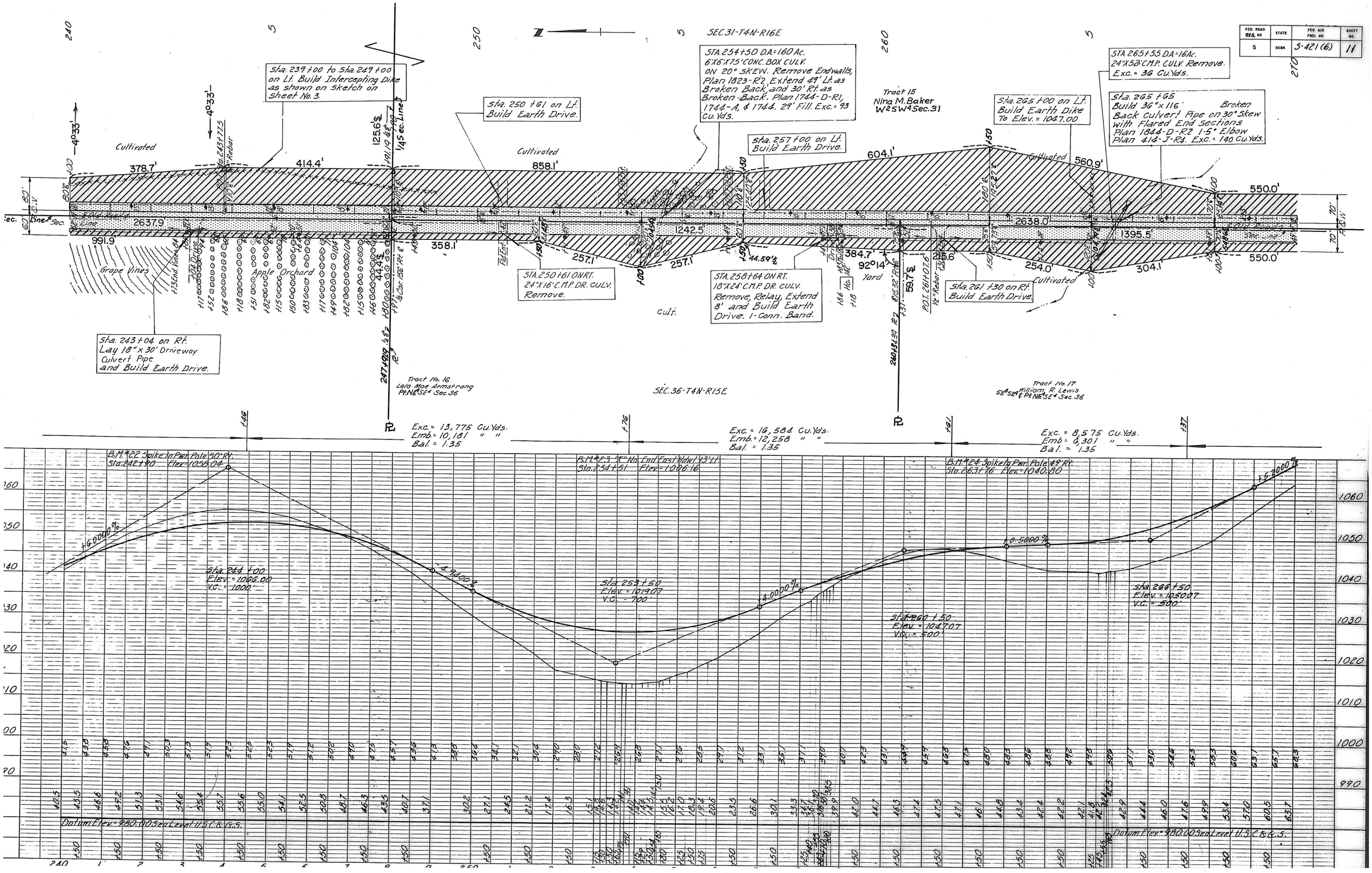
Sec. 36-T4N-R15E

Exc. = 12,713 Cu. Yds.
Emb. = 9,395 " "
Bal. = 1.35

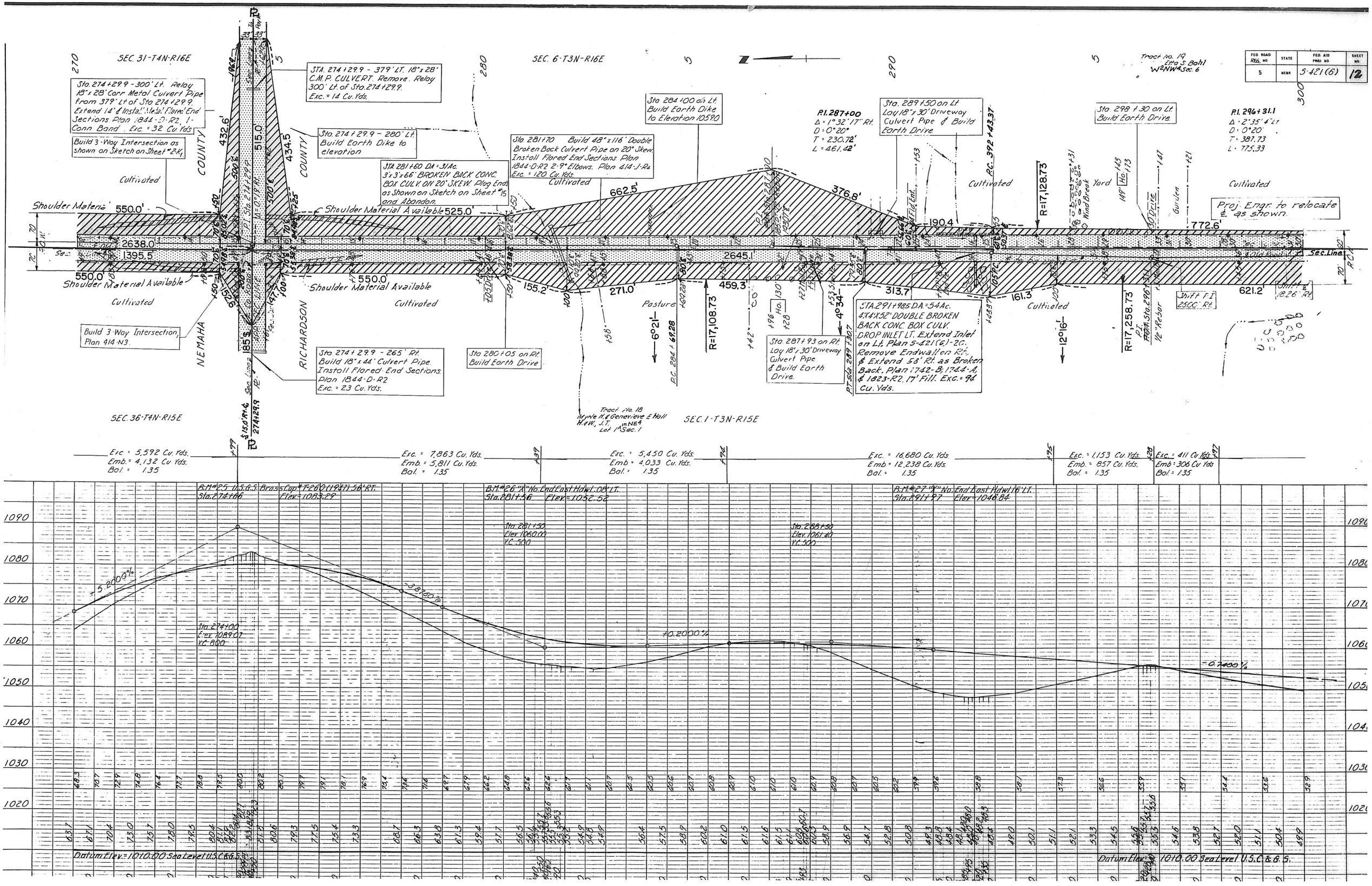
Exc. = 2,531 Cu. Yds.
Emb. = 1,870 " "
Bal. = 1.35

Exc. = 9,187 Cu. Yds.
Emb. = 6,792 " "
Bal. = 1.35

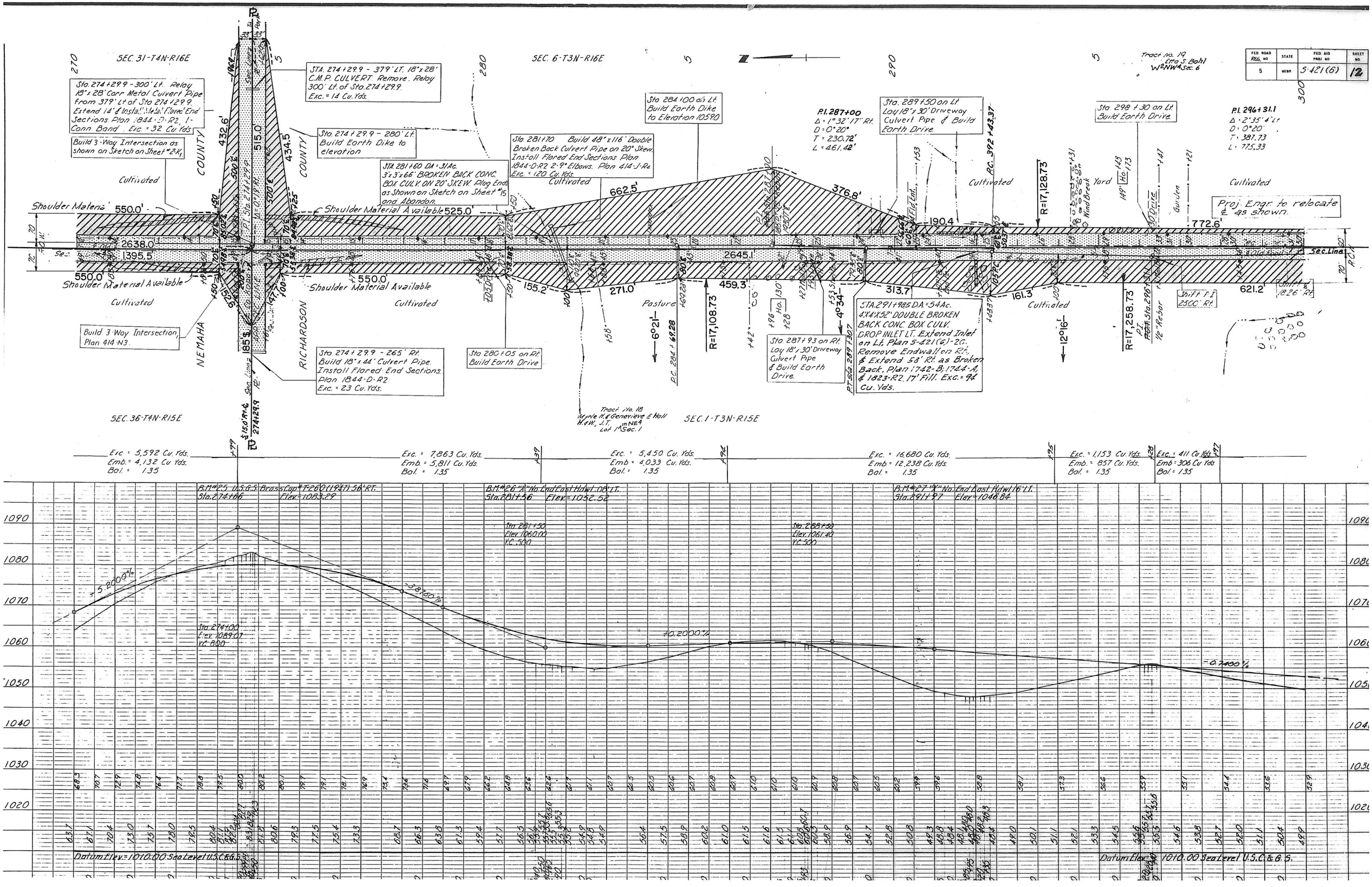




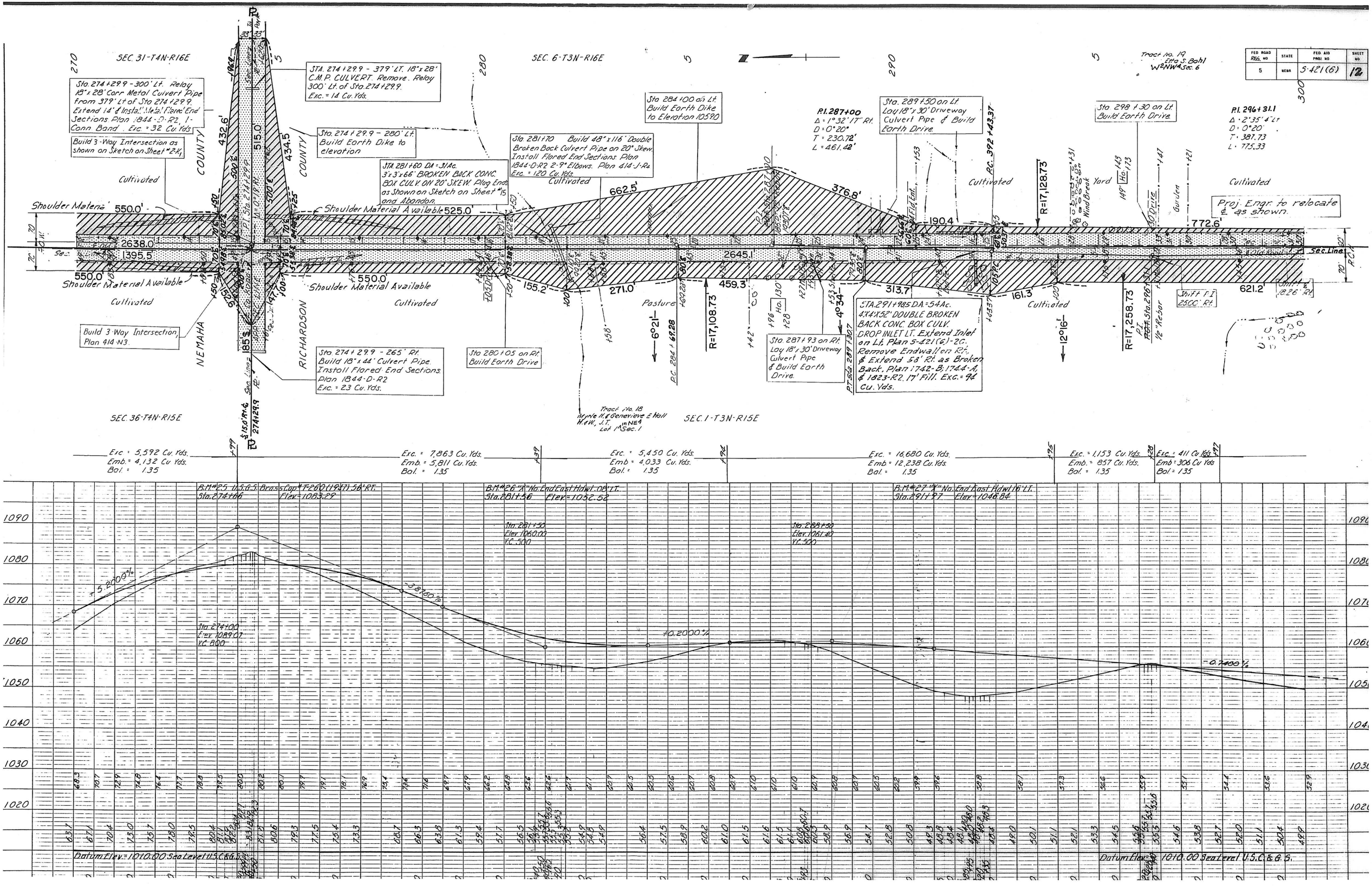
FED. ROAD REG. NO. 5
STATE NEBR.
FED. AID PROJ. NO. S-421 (6)
SHEET NO. 11
SEC. 31-T4N-R16E
SEC. 36-T4N-R15E
Sta. 239+00 to Sta. 249+00 on Lt. Build Intercepting Dike as shown on Sketch on Sheet No. 3.
Sta. 250+61 on Lt. Build Earth Drive.
STA. 254+50 D.A.=160 Ac. 6'X6'X75' CONC. BOX CULV. ON 20° SKEW. Remove Endwalls, Plan 1823-R2, Extend 49' Lt. as Broken Back, and 30' Rt. as Broken Back. Plan 1744-D-R1, 1744-A, & 1744. 29' Fill. Exc.=93 Cu. Yds.
Tract 15 Nina M. Baker W2SW4 Sec. 31
Sta. 265+00 on Lt. Build Earth Dike To Elev.=1047.00
STA. 265+55 D.A.=16 Ac. 24"X52' C.M.P. CULV. Remove. Exc.=36 Cu. Yds.
Sta. 265+65 Build 36"x116' Broken Back Culvert Pipe on 30° Skew with Flared End Sections. Plan 1844-D-R2 1-5° Elbow Plan 414-J-R4. Exc.=140 Cu. Yds.
Sta. 257+00 on Lt. Build Earth Drive.
Cultivated
Grape Vines
Apple Orchard
Yard
Cult.
STA. 250+61 ON RT. 24"X16' C.M.P. DR. CULV. Remove.
STA. 258+64 ON RT. 18"X24' C.M.P. DR. CULV. Remove, Relay, Extend 8' and Build Earth Drive. 1-Conn. Band.
Sta. 261+30 on Rt. Build Earth Drive.
Sta. 243+04 on Rt. Lay 18"x30' Driveway Culvert Pipe and Build Earth Drive.
Tract No. 16 Lela Mae Armstrong Pt. NE4SE4 Sec. 36
Tract No. 17 William R. Lewis SE4SE4 & Pt. NE4SE4 Sec. 36
Exc.=13,775 Cu. Yds. Emb.=10,181 " " Bal.=1.35
Exc.=16,584 Cu. Yds. Emb.=12,258 " " Bal.=1.35
Exc.=8,575 Cu. Yds. Emb.=6,301 " " Bal.=1.35
B.M.#22 Spike In Pwr. Pole 50' Rt. Sta. 242+90 Elev.=1058.04
B.M.#23 "X" No. End East Hdwl. 13' Lt. Sta. 254+51 Elev.=1006.16
B.M.#24 Spike In Pwr. Pole 49' Rt. Sta. 263+76 Elev.=1040.80
Sta. 244+00 Elev.=1066.00 V.C.=1000'
Sta. 253+50 Elev.=1019.07 V.C.=700'
Sta. 260+50 Elev.=1047.07 V.C.=500'
Sta. 266+50 Elev.=1050.07 V.C.=500'
Datum Elev.=980.00 Sea Level U.S.C.&G.S.



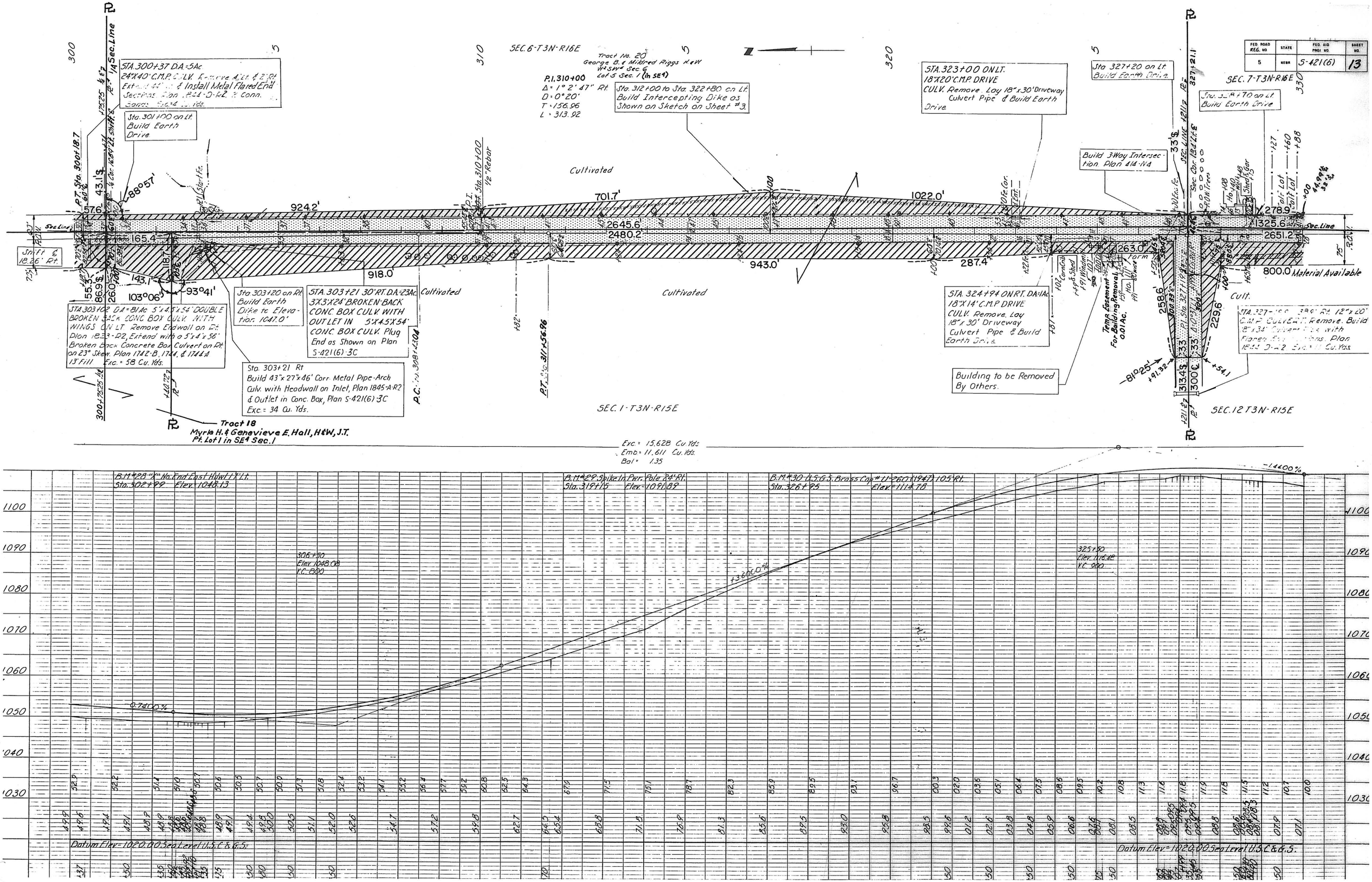
FED. ROAD REG. NO. 5
STATE MEBR
FED. AID PROJ. NO. S-421(6)
SHEET NO. 12
SEC. 31-T4N-R16E
SEC. 6-T3N-R16E
SEC. 36-T4N-R15E
SEC. 1-T3N-R15E
Tract No. 19 Etta S. Bohl W2NW4 Sec. 6
Sta. 274+29.9 - 300' Lt. Relay 18"x28' Corr Metal Culvert Pipe from 379' Lt of Sta 274+29.9. Extend 14' & Install Metal Flared End Sections Plan 1844-D-R2, 1-Conn Band. Exc. = 32 Cu. Yds.
Build 3-Way Intersection as shown on Sketch on Sheet #2-K1
STA. 274+29.9 - 379' LT. 18"x28' C.M.P. CULVERT. Remove. Relay 300' Lt. of Sta. 274+29.9. Exc. = 14 Cu. Yds.
Sta. 274+29.9 - 280' Lt. Build Earth Dike to elevation
STA. 281+60 DA = 31 Ac. 3'x3'x66' BROKEN BACK CONC. BOX CULV. ON 20' SKEW. Plug Ends as Shown on Sketch on Sheet #15 and Abandon.
Sta. 281+70 Build 48"x116' Double Broken Back Culvert Pipe on 20° Skew. Install Flared End Sections. Plan 1844-D-R2 2-9° Elbows. Plan 414-J-R4 Exc. = 120 Cu. Yds.
Sta. 284+00 on Lt. Build Earth Dike to Elevation 1059.0
P.I. 287+00 Δ = 1°32'17" Rt. D = 0°20' T = 230.72' L = 461.42'
Sta. 289+50 on Lt. Lay 18"x30' Driveway Culvert Pipe & Build Earth Drive.
Sta. 298+30 on Lt. Build Earth Drive.
P.I. 296+31.1 Δ = 2°35'4" Lt. D = 0°20' T = 387.73 L = 775.33
Proj. Engr. to relocate ℄ as shown.
Shoulder Material Available
Cultivated
Pasture
Yard
Garden
Wind Break
Build 3-Way Intersection, Plan 414-N3.
Sta. 274+29.9 - 265' Rt. Build 18"x44' Culvert Pipe. Install Flared End Sections. Plan 1844-D-R2 Exc. = 23 Cu. Yds.
Sta. 280+05 on Rt. Build Earth Drive
Sta. 287+93 on Rt. Lay 18"x30' Driveway Culvert Pipe & Build Earth Drive.
STA. 291+98.5 DA = 54 Ac. 4'x4'x52' DOUBLE BROKEN BACK CONC. BOX CULV. DROP INLET LT. Extend Inlet on Lt. Plan S-421(6)-2C. Remove Endwall on Rt. & Extend 58' Rt. as Broken Back. Plan 1742-B; 1744-A, & 1823-R2. 17' Fill. Exc. = 94 Cu. Yds.
Shift P.I. 25.00' Rt.
Shift ℄ 18.26' Rt.
NEMAHA COUNTY
RICHARDSON COUNTY
Tract No. 18 Myrle H. & Genevieve E. Hall H.&W., J.T. in NE4 Lot 1 Sec. 1
Exc. = 5,592 Cu. Yds. Emb. = 4,132 Cu. Yds. Bal. = 1.35
Exc. = 7,863 Cu. Yds. Emb. = 5,811 Cu. Yds. Bal. = 1.35
Exc. = 5,450 Cu. Yds. Emb. = 4,033 Cu. Yds. Bal. = 1.35
Exc. = 16,680 Cu. Yds. Emb. = 12,238 Cu. Yds. Bal. = 1.35
Exc. = 1,153 Cu. Yds. Emb. = 857 Cu. Yds. Bal. = 1.35
Exc. = 411 Cu. Yds. Emb. = 306 Cu. Yds. Bal. = 1.35
B.M. #25 U.S.G.S. Brass Cap #T-260 (1947) 56' RT. Sta. 274+66 Elev. = 1083.29
B.M. #26 "X" No. End East Hdwl. 08' LT. Sta. 281+56 Elev. = 1052.52
B.M. #27 "X" No. End East Hdwl. 16' LT. Sta. 291+97 Elev. = 1046.84
Sta. 281+50 Elev. 1060.00 V.C. 500
Sta. 288+50 Elev. 1061.40 V.C. 500
Sta. 274+00 Elev. 1089.07 V.C. 800
+5.2000%
-3.8750%
+0.2000%
-0.7400%
Datum Elev. = 1010.00 Sea Level U.S.C.&G.S.



FED. ROAD REG. NO. 5
STATE NEBR.
FED. AID PROJ. NO. S-421(6)
SHEET NO. 12
SEC. 31-T4N-R16E
SEC. 6-T3N-R16E
SEC. 36-T4N-R15E
SEC. 1-T3N-R15E
Sta. 274+29.9 - 300' Lt. Relay 18"x28' Corr Metal Culvert Pipe from 379' Lt of Sta 274+29.9. Extend 14' & Install Metal Flared End Sections Plan 1844-D-R2, 1-Conn Band. Exc. = 32 Cu. Yds.
Build 3-Way Intersection as shown on Sketch on Sheet #2-K1
STA. 274+29.9 - 379' LT. 18"x28' C.M.P. CULVERT. Remove. Relay 300' Lt. of Sta. 274+29.9. Exc. = 14 Cu. Yds.
Sta. 274+29.9 - 280' Lt. Build Earth Dike to elevation
STA. 281+60 DA = 31Ac. 3'x3'x66' BROKEN BACK CONC. BOX CULV. ON 20' SKEW. Plug Ends as Shown on Sketch on Sheet #15 and Abandon.
Sta. 281+70 Build 48"x116' Double Broken Back Culvert Pipe on 20° Skew. Install Flared End Sections Plan 1844-D-R2 2-9° Elbows. Plan 414-J-R4 Exc. = 120 Cu. Yds.
Sta. 284+00 on Lt. Build Earth Dike to Elevation 1059.0
P.I. 287+00 Δ = 1°32'17" Rt. D = 0°20' T = 230.72' L = 461.42'
Sta. 289+50 on Lt. Lay 18"x30' Driveway Culvert Pipe & Build Earth Drive.
Sta. 298+30 on Lt. Build Earth Drive.
P.I. 296+31.1 Δ = 2°35'4" Lt. D = 0°20' T = 387.73 L = 775.33
Proj. Engr. to relocate ℄ as shown.
Shoulder Material Available
Cultivated
Pasture
Yard
Gulden
Wind Break
Sec. Line
Build 3-Way Intersection, Plan 414-N3.
Sta. 274+29.9 - 265' Rt. Build 18"x44' Culvert Pipe. Install Flared End Sections. Plan 1844-D-R2 Exc. = 23 Cu. Yds.
Sta. 280+05 on Rt. Build Earth Drive
Sta. 287+93 on Rt. Lay 18"x30' Driveway Culvert Pipe & Build Earth Drive.
STA. 291+98.5 DA = 54Ac. 4'x4'x52' DOUBLE BROKEN BACK CONC. BOX CULV. DROP INLET LT. Extend Inlet on Lt. Plan S-421(6)-2C. Remove Endwall on Rt. & Extend 58' Rt. as Broken Back. Plan 1742-B; 1744-A, & 1823-R2. 17' Fill. Exc. = 94 Cu. Yds.
Shift P.I. 2500' Rt.
Shift ℄ 18.26' Rt.
NEMAHA COUNTY
RICHARDSON COUNTY
Tract No. 19 Etta S. Bohl W2NW4 Sec. 6
Tract No. 18 Myrle H. & Genevieve E. Hall H.&W., J.T. Lot 1 in NE4 Sec. 1
Exc. = 5,592 Cu. Yds. Emb. = 4,132 Cu. Yds. Bal. = 1.35
Exc. = 7,863 Cu. Yds. Emb. = 5,811 Cu. Yds. Bal. = 1.35
Exc. = 5,450 Cu. Yds. Emb. = 4,033 Cu. Yds. Bal. = 1.35
Exc. = 16,680 Cu. Yds. Emb. = 12,238 Cu. Yds. Bal. = 1.35
Exc. = 1,153 Cu. Yds. Emb. = 857 Cu. Yds. Bal. = 1.35
Exc. = 411 Cu. Yds. Emb. = 306 Cu. Yds. Bal. = 1.35
B.M. #25 U.S.G.S. Brass Cap #T-260 (1947) 56' RT. Sta. 274+66 Elev. = 1083.29
B.M. #26 "X" No. End East Hdwl. 08' LT. Sta. 281+56 Elev. = 1052.52
B.M. #27 "X" No. End East Hdwl. 16' LT. Sta. 291+97 Elev. = 1046.84
Sta. 281+50 Elev. 1060.00 V.C. 500
Sta. 288+50 Elev. 1061.40 V.C. 500
Sta. 274+00 Elev. 1089.07 V.C. 800
+5.2000%
-3.8700%
+0.2000%
-0.7400%
Datum Elev. = 1010.00 Sea Level U.S.C.&G.S.



FED. ROAD REG. NO. 5
STATE NEBR.
FED. AID PROJ. NO. S-421(6)
SHEET NO. 12
SEC. 31-T4N-R16E
SEC. 6-T3N-R16E
SEC. 36-T4N-R15E
SEC. 1-T3N-R15E
Sta. 274+29.9 - 300' Lt. Relay 18" x 28' Corr Metal Culvert Pipe from 379' Lt of Sta 274+29.9. Extend 14' & Install Metal Flared End Sections Plan 1844-D-R2, 1-Conn Band. Exc. = 32 Cu. Yds.
Build 3-Way Intersection as shown on Sketch on Sheet #2-K1
STA. 274+29.9 - 379' LT. 18" x 28' C.M.P. CULVERT. Remove. Relay 300' Lt. of Sta. 274+29.9. Exc. = 14 Cu. Yds.
Sta. 274+29.9 - 280' Lt. Build Earth Dike to elevation
STA. 281+60 DA = 31 Ac. 3'x3'x66' BROKEN BACK CONC. BOX CULV. ON 20° SKEW. Plug Ends as Shown on Sketch on Sheet #15 and Abandon.
Sta. 281+70 Build 48" x 116' Double Broken Back Culvert Pipe on 20° Skew. Install Flared End Sections Plan 1844-D-R2 2-9° Elbows. Plan 414-J-R4 Exc. = 120 Cu. Yds.
Sta. 284+00 on Lt. Build Earth Dike to Elevation 1059.0
P.I. 287+00 Δ = 1°32'17" Rt. D = 0°20' T = 230.72' L = 461.42'
Sta. 289+50 on Lt. Lay 18" x 30' Driveway Culvert Pipe & Build Earth Drive.
Sta. 298+30 on Lt. Build Earth Drive.
P.I. 296+31.1 Δ = 2°35'4" Lt. D = 0°20' T = 387.73 L = 775.33
Proj. Engr. to relocate ℄ as shown.
Shoulder Material Available
Cultivated
Pasture
Yard
Wind Break
Garden
Sec. Line
Build 3-Way Intersection, Plan 414-N3.
Sta. 274+29.9 - 265' Rt. Build 18" x 44' Culvert Pipe. Install Flared End Sections. Plan 1844-D-R2 Exc. = 23 Cu. Yds.
Sta. 280+05 on Rt. Build Earth Drive
Sta. 287+93 on Rt. Lay 18" x 30' Driveway Culvert Pipe & Build Earth Drive.
STA. 291+985 DA = 54 Ac. 4'x4'x52' DOUBLE BROKEN BACK CONC. BOX CULV. DROP INLET LT. Extend Inlet on Lt. Plan S-421(6)-2C. Remove Endwall on Rt. & Extend 58' Rt. as Broken Back. Plan 1742-B; 1744-A, & 1823-R2. 17' Fill. Exc. = 94 Cu. Yds.
Shift P.I. 2500' Rt.
Shift ℄ 18.26' Rt.
NEMAHA COUNTY
RICHARDSON COUNTY
Tract No. 19 Etta S. Bohl W2NW4 Sec. 6
Tract No. 18 Myrle H. & Genevieve E. Hall H.&W., J.T. in NE4 Lot 1 Sec. 1
Exc. = 5,592 Cu. Yds. Emb. = 4,132 Cu. Yds. Bal. = 1.35
Exc. = 7,863 Cu. Yds. Emb. = 5,811 Cu. Yds. Bal. = 1.35
Exc. = 5,450 Cu. Yds. Emb. = 4,033 Cu. Yds. Bal. = 1.35
Exc. = 16,680 Cu. Yds. Emb. = 12,238 Cu. Yds. Bal. = 1.35
Exc. = 1,153 Cu. Yds. Emb. = 857 Cu. Yds. Bal. = 1.35
Exc. = 411 Cu. Yds. Emb. = 306 Cu. Yds. Bal. = 1.35
B.M. #25 U.S.G.S. Brass Cap #T-260 (1947) 56' RT. Sta. 274+66 Elev. = 1083.29
B.M. #26 "X" No. End East Hdwl. 08' LT. Sta. 281+56 Elev. = 1052.52
B.M. #27 "X" No. End East Hdwl. 16' LT. Sta. 291+97 Elev. = 1046.84
Sta. 281+50 Elev. 1060.00 V.C. 500
Sta. 288+50 Elev. 1061.40 V.C. 500
Sta. 274+00 Elev. 1089.07 V.C. 800
+5.2000%
-3.8750%
+0.2000%
-0.7400%
Datum Elev. = 1010.00 Sea Level U.S.C.&G.S.



FED. ROAD REG. NO. 5
STATE NEBR.
FED. AID PROJ. NO. S-421(6)
SHEET NO. 13
SEC. 6-T3N-R16E
SEC. 7-T3N-R16E
SEC. 1-T3N-R15E
SEC. 12 T3N-R15E
Tract No. 20
George B. & Mildred Riggs H.&W.
W½SW¼ Sec. 6
Lot 5 Sec. 1 (in SE¼)
P.I. 310+00
Δ = 1° 2' 47" Rt.
D = 0° 20'
T = 156.96
L = 313.92
Sta. 312+00 to Sta. 322+80 on Lt. Build Intercepting Dike as Shown on Sketch on Sheet #3.
STA. 300+37 D.A.=5Ac
24"X40' C.M.P. CULV. Remove 4' Lt. & 2' Rt. Extend 44' Lt. & Install Metal Flared End Sections Plan 1844-D-R2 & Conn. Bands Exc. 4 Cu. Yds.
Sta. 301+00 on Lt. Build Earth Drive
STA. 323+00 ON LT. 18"X20' C.M.P. DRIVE CULV. Remove Lay 18"x30' Driveway Culvert Pipe & Build Earth Drive
Sta. 327+20 on Lt. Build Earth Drive
Sta. 328+70 on Lt. Build Earth Drive
Build 3-Way Intersection Plan 414-N4
Cultivated
Cult.
Sta. 303+20 on Rt. Build Earth Dike to Elevation 1047.0'
STA. 303+21 30' RT. D.A.=23Ac. 3'X3'X24' BROKEN-BACK CONC. BOX CULV. WITH OUTLET IN 5'X4.5'X54' CONC. BOX CULV. Plug End as Shown on Plan S-421(6)-3C
Sta. 303+21 Rt. Build 43"x27"x46' Corr. Metal Pipe-Arch Culv. with Headwall on Inlet, Plan 1845-A-R2 & Outlet in Conc. Box, Plan S-421(6)-3C Exc. = 34 Cu. Yds.
STA. 324+94 ON RT. D.A.=1Ac. 18"X14' C.M.P. DRIVE CULV. Remove Lay 18"x30' Driveway Culvert Pipe & Build Earth Drive
Building to be Removed By Others.
Temp. Easement For Building Removal 0.01 Ac.
Material Available
Tract 18
Myrle H. & Genevieve E. Hall, H&W, J.T.
Pt. Lot 1 in SE¼ Sec. 1
Exc. = 15,628 Cu. Yds.
Emb. = 11,611 Cu. Yds.
Bal. = 1.35
B.M. #28 "X" No. End East Hdwl. 1' Lt. Sta. 302+99 Elev. 1048.13
B.M. #29 Spike In Pwr. Pole 24' Rt. Sta. 319+15 Elev. 1091.89
B.M. #30 U.S.G.S. Brass Cap #U-260 (1947) 105' Rt. Sta. 326+95 Elev. 1114.78
306+50 Elev. 1048.08 V.C. 800
325+50 Elev. 1116.42 V.C. 900
0.7400%
+3.6000%
-1.4400%
Datum Elev. = 1020.00 Sea Level U.S.C.&G.S.

FED ROAD REG NO	STATE	FED AID PROJ NO	SHEET NO
5	NEBR	S-421 (6)	14

P.I. 353+72.3
Δ = 0°17' Rt.

Tract No. 21
Esther Mae Duey
NW¼NW¼ Sec 7

SEC. 7-T3N-R16E

Tract No. 22
Guy S. Hutchins
S½NW¼ Sec 7

STA. 340+16 D.A.=24 Ac
36"X50' C.M.P. CULV. Remove & Build 42"X74' Broken-Back Culvert Pipe with Flared End Sections, Plan 1844-D-R2. 1-9° Elbow, Plan 414-J-R4
Exc. = 85 Cu Yds

Sta 340+69 on Lt
Build Earth Drive

STA. 353+62 ON LT. D.A.=3 Ac.
18"X20' C.M.P. DRIVE CULV. - Remove & Lay 18"x30' Driveway Culvert Pipe & Build Earth Drive

Temp. Borrow Ease. 1.14 Ac.

Hog Lot — Pasture — Past. — Cultivated — Cultivated — Cultivated — Pasture

Temp. Chan. Ease. 0.10 Ac. — Temp. Ease. for Channel Cleanout 0.11 Ac.

Shoulder Material Available

STA. 332+05 D.A.=10 Ac.
18"X54' C.M.P. CULV. - Remove & Build 30"x90' Broken-Back Culvert Pipe with Flared End Sections, Plan 1844-D-R2. 1-9° Elbow, Plan 414-J-R4
Exc = 95 Cu Yds

Sta. 332+50 on Rt
Build Earth Dike to Elev. 1108.0

UTILITIES NOTE.
Extreme care shall be exercised in excavating over the Gas Lines, so the Gas Lines will not be damaged.
Do not cut over the Gas Lines except as indicated on the Cross Sections.
Proj. Engr. shall definitely locate the Gas Lines before excavation begins.

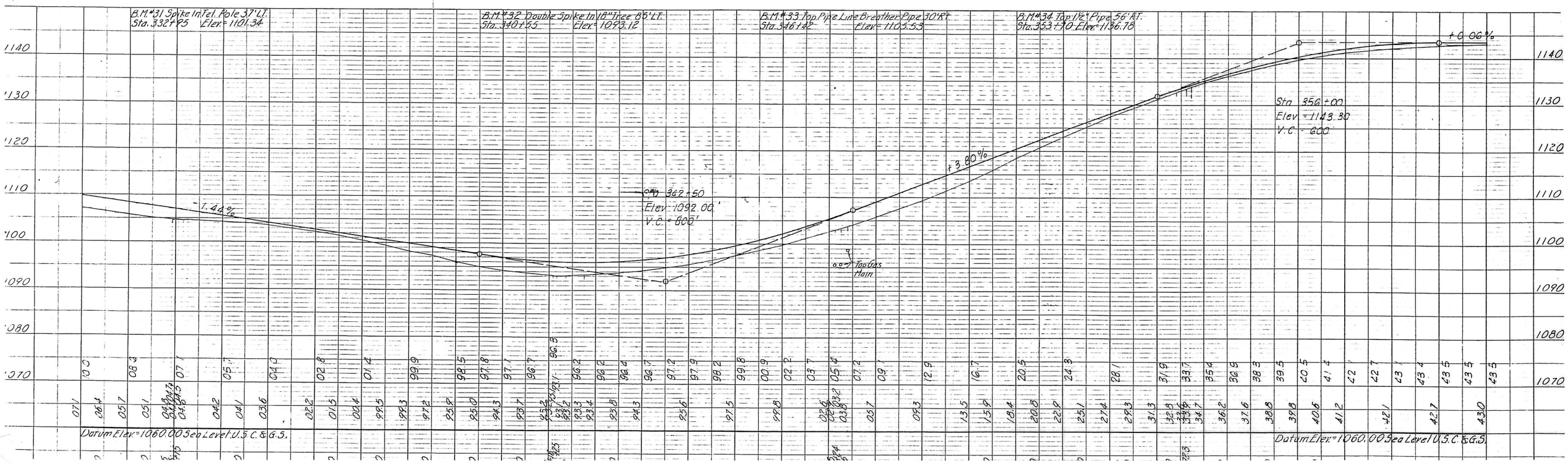
Great Lakes Pipe Line Co.

STA. 353+56 ON RT.
18"X20' C.M.P. DRIVE CULV. - Remove & Lay 18"x30' Driveway Culvert Pipe & Build Earth Drive

SEC. 12-T3N-R15E

Tract No. 23
Beulah S. Hill
SE¼NE¼ E½NE¼NE¼ Sec 12

Exc = 8,004 Cu Yds
Emb = 5,936 "
Bor = 1.35



FED ROAD REG NO	STATE	FED AID PROJ NO	SHEET NO
5	NEBR	S-421(6)	15

Tract No. 24
Guy S. Hutchins - Life Estate
Hazel Hutchins Madden } Remainder T.C.
Harlan G. Hutchins
SW¼ Sec. 7

SEC. 7-T3N-R16E

STA. 379+38' D.A.=29Ac.
48"X78' C.M.P. CULV. WITH
HDWL'S.

SEC. 18-T3N-R16E

Tract No.
John Hutchins Lyon
NW¼ Sec 18

STA. 380+23.5 ON LT. D.A.=16Ac.
24"X40' C.M.P. CULV.

Sta. 365+00 on Lt
Lay 18"x 30' Driveway
Culvert Pipe & Build
Earth Drive.

Easement For Soil Binder Pit No. 742
Cultivated

Cultivated

Pasture

Pasture

Pasture

Pasture

Alfalfa

Pasture

Cultivated

Sec. Line

Sec. Line

Sec. Line

Sec. Line

1527.7'

2651.2'

2651.2'

300.4'

823.5'

Sta. 368+22.4
1/2" Rebar

Orchard

Yard

Ho.

137'

Drive

Gate

Start Oil Mat

Gravel Road Lt.

Equa. Sta. 380+23.5 =
Sta. 474+028.3 Proj. S-379(4)
Sec. Cor. on ℄

25' Oil Road

Sec. Line

Sec. Line

Road

Sec. Cor. on ℄

Sec. 13

Sec. 18

STA. 368+33 ON RT.
18"X20' C.M.P. DRIVE
CULV. Remove. Lay
18"x 30' Driveway
Culvert Pipe &
Build Earth Drive.

2 Story
Brick Ho.
1924

Tract No. 25
Delbert R. Anderson
E½ SE¼ Sec. 12

SEC. 12-T3N-R15E

SEC. 13-T3N-R15E

Tract No.
Anna Irene - Life Estate (Deceased)
Sheila Howe
Mary Ellen Swanson } Remainder T.C.
Pt. NE¼ NE¼ Sec. 13

Exc. = 261 Cu. Yds.
Emb. = 192 Cu. Yds.
Bal. = 1.36

B.M. #35 Double Bent Spikes 49" Tree 58' Lt.
Sta. 366+09 Elev. 1144.67

B.M. #36 U.S.G.S. Brass Cap # V-260 (1960)
No. End East Hdwl. 29' Lt. Sta. 379+34
Elev. 1100.07

Sta. 379+28
End Proj. S-421(6)
End Construction
End Bituminous Surfacing

+0.0800%

Sta. 377+00
Elev. 1110.68
V.C. 500

Sta. 370+50
Elev. 1110.23

-1.7600%

Sta. 370+00
Elev. 1142.14
V.C. 500

-0.1800%

1150
1140
1130
1120
1110
1100
1090
1080

Datum Elev.: 1070.00 S. ea Level U.S.C. & G.S.

Datum Elev.: 1070.00 S. ea Level U.S.C. & G.S.