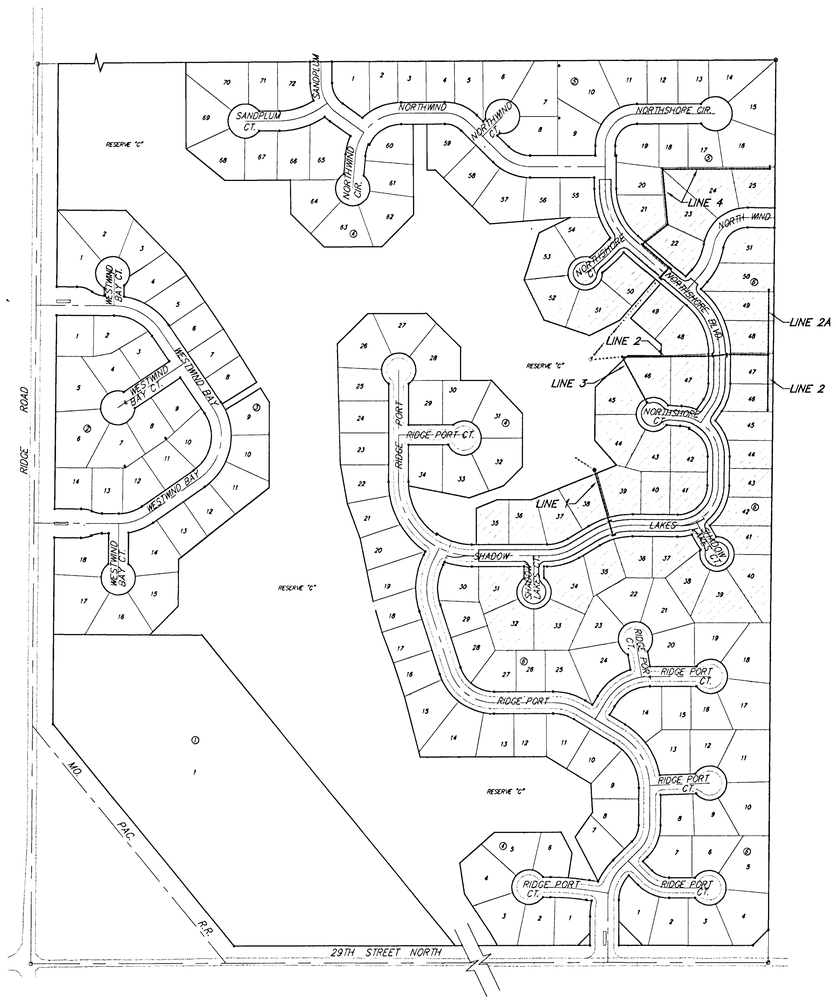


Scale: 1" = 200'

## Benchmarks

*City Disc 45' North of 1/4 Corner, 1/2 Mile East of Ridge Road on 29th Street North.*
*Elev. = 141.07 City Datum*

*"X" Cut on Top of Curb at P.C. Lot 30, Block 4, Ridge Port Addition*
*Elev. = 142.83 City Datum*

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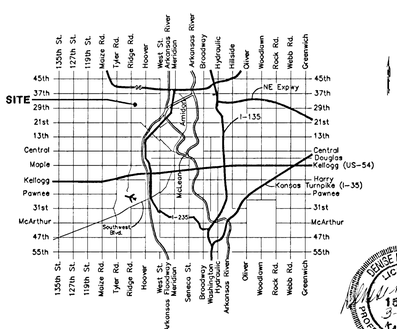
**Benefit District:**

**Proposed Streets:**

*Project Earthwork Totals*
*Excavation = 896 C.Y.*
*Loose Fill = 2245 C.Y.*
*Compacted Fill = 5874 C.Y.*

*Total Project Length*
*2407 L.F. = 0.46 Miles*




## Vicinity Map

DENISE M. VAUGHN LICENSED 15178 3-2001 PROFESSIONAL ENGINEER KANSAS

# STREET IMPROVEMENTS

AND INCIDENTAL STORM WATER SEWER

to serve

# RIDGE PORT ADDITION

# Phase III

**SHADOW LAKES: From E.L. of Lot 30, Block 6 to the S.L. of Northshore Blvd.**
**NORTHSHORE BLVD: From E.L. of Shadow Lakes, north to the N.L. of Lot 55, Block 4**
**SHADOW LAKES COURT (Lots 31-34, Block 6): From S.L. of Shadow Lakes South to and Including Cul-de-Sac**
**SHADOW LAKES COURT (Lots 37-41, Block 6): From S.L. of Shadow Lakes South to and Including Cul-de-Sac**
**NORTHSHORE COURT (Lots 42-47, Block 4): From W.L. of Northshore Blvd. West to and Including Cul-de-Sac**
**NORTHSHORE COURT (Lots 50-54, Block 4): From W.L. of Northshore Blvd. South and West to and Including Cul-de-Sac**

## CITY OF WICHITA, KANSAS

Michael E. Lindebak, P.E. City Engineer

Project Number

**472-89247**

O.C.A. Number:

**765672**

DRAINAGE BOOKED 1-17-12 MCG C-205

## GENERAL NOTES:

1. *Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:*

   *Kansas One-Call 687-2470*

   *The Contractor must notify the following in case of an emergency.*

   | | |
   |---|---|
   | *Cablevision* | *262-4270* |
   | *or* | *263-2061* |
   | *K.P.L. Gas Service Company* | *263-7511* |
   | *Kansas Gas & Electric Company* | *264-1141* |
   | *Peoples Nat. Gas Company* | *942-8350* |
   | *Southwestern Bell Telephone Company* | *1-571-2611* |
   | *City of Wichita Water Department* | *268-4908* |
   | *City of Wichita Sewer Maintenance* | *268-4071* |

2. *Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.*

3. *Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiles or disposed of in a flood plain would a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.*

4. *Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.*

5. *Limits of earthwork shall match existing ground elevations at the right-of-way line unless otherwise noted on the plans with a new finished grade elevation. When a new finished grade elevation is shown, the earthwork shall extend one foot beyond the right-of-way line and then sloped up or down using permissible slopes to match the existing ground surface.*

6. *The Contractor shall adjust water valve boxes and fire hydrants as directed by the Engineer at the price bid for said adjustments. The Water Department shall field located water valves one time during construction when requested by Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, water valve boxes or fire hydrants damaged during construction shall be repaired by the Contractor at his own expense.*

7. *The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state law.*

8. *All areas disturbed by construction shall be seeded at 300 lbs./acre with Rye Grass immediately following construction in that area. Contractor shall prepare ground per City specifications.*

9. *A saw cut of at least one-half the depth of existing surface courses of one-fourth the depth of the existing total pavement thickness shall be provided at locations where proposed construction abuts as existing surface course or pavement for which partial removal of that surface or pavement is required. Sawed joint to facilitate removal within three (3) feet of existing joints will not be permitted and for such instances the limits of removal shall extend to the existing joint. Such saw cuts will not be paid for directly and this cost shall be considered as subsidiary to the removal of the surface or pavement.*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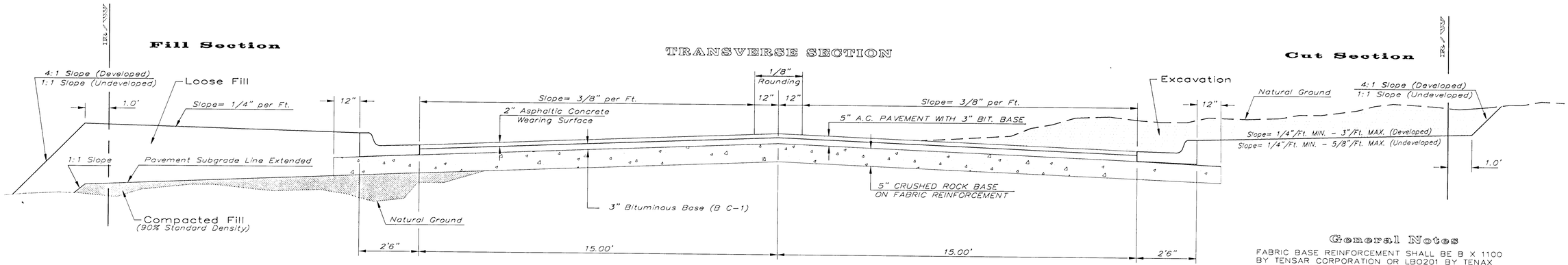
# TYPICAL 35' B-B PAVEMENT DETAILS

## TRANSVERSE SECTION

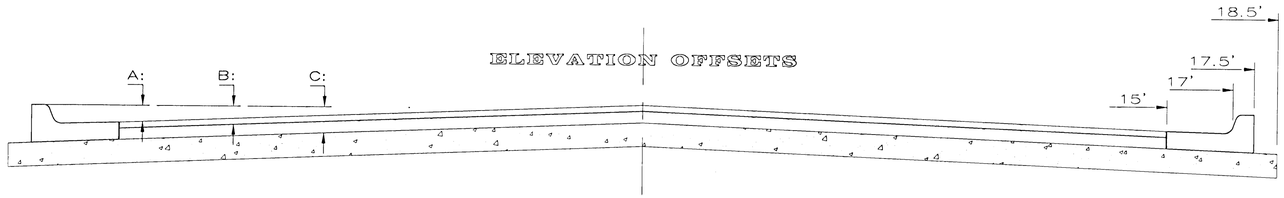



### CRUSHED ROCK GRADATION REQUIREMENTS
PERCENT OF AGGREGATE RETAINED

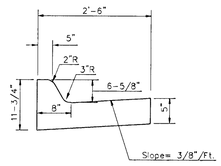
| | |
|---|---|
| 2-1/2" | 0 |
| 3/4" | 20 - 60 |
| #4 | 50 - 80 |
| #40 | 80 - 94 |
| #200 | 90 - 98 |

ROCK QUALITY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BE THE KDOT 1990 EDITION STANDARD SPECIFICATION SUBSECTION 1102 FOR DURABILITY CLASS I.

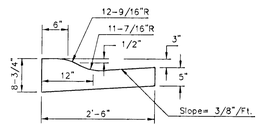
## ELEVATION OFFSETS



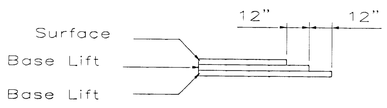

| | DISTANCE FROM CENTERLINE (LT. & RT.) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0' | 2' | 4' | 6' | 8.5' | 10' | 12' | 14' | 15' | 17' | 17.5' | 18.5' |
| A: Top of Curbs to Top of Surface Lift | 0.04 | 0.08 | 0.14 | 0.21 | 0.29 | 0.33 | 0.39 | 0.46 | 0.49 | -- | -- | -- |
| B: Top of Curbs to Top of Upper Base Lift | 0.21 | 0.25 | 0.31 | 0.37 | 0.45 | 0.50 | 0.56 | 0.62 | 0.65 | -- | -- | -- |
| C: Top of Curbs to Top of C. R. Subgrade | 0.46 | 0.50 | 0.56 | 0.63 | 0.71 | 0.75 | 0.81 | 0.88 | 0.91 | 0.97 | 0.98 | 1.01 |




COMBINED CURB & GUTTER

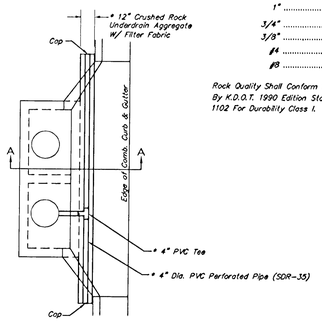



COMBINED ROLL TYPE CURB & GUTTER




TRANSVERSE CONSTRUCTION JOINTS

Transverse construction joints shall be constructed in flexible base pavements at locations where pavement joins existing flexible base pavement as shown by the detail. All costs associated with the construction of the transverse joint shall be included in the bid price for Square Yards 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE).



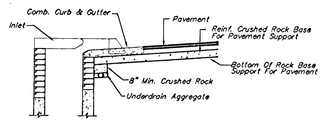

PLAN

* UNDERDRAIN AGGREGATE
Percent of Aggregate Retained

| | |
|---|---|
| 1" | 0 |
| 3/4" | 0 to 10 |
| 3/8" | 45 to 80 |
| #4 | 90 to 100 |
| #8 | 95 to 100 |

Rock Quality Shall Conform To The Requirements Specified By K.D.O.T. 1990 Edition Standard Specification Subsection 1102 For Durability Class I.

NOTE: Place 4" PVC Perforated Pipe at all drainage sump locations.
Cost of Underdrain System to be Incidental to the Reinforced Crushed Rock Subgrade.
Inlet Type May Vary From That Shown.




(Min. 16 Perforations Per Lin. Ft. @ 1/4" Dia.)
Perforations To Be on Bottom Half

SECTION A-A

PAVEMENT UNDERDRAIN DETAIL
NOT TO SCALE

## General Notes

FABRIC BASE REINFORCEMENT SHALL BE B X 1100 BY TENSAR CORPORATION OR LBO201 BY TENAX CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

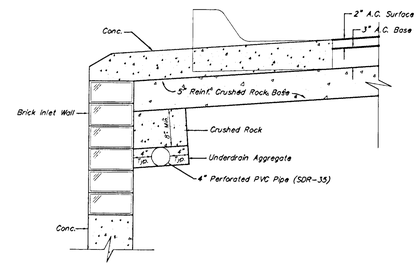
ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE.)




TRENCH DRAIN DETAIL FOR RES. STREETS
NOT TO SCALE

5 INCH Residential Asphaltic Concrete Pavement w/Crushed Rock Base on Fabric Reinforcement
City of Wichita, Kansas


BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211


| PROJECT NUMBER | SHEET |
|---|---|
| 472-89247 | 2 OF 34 |

| DESIGN | DRAWN | APPROVED | DATE | SCALE |
|---|---|---|---|---|
| C.O.W. | Staff | | 3-28-01 | NONE |

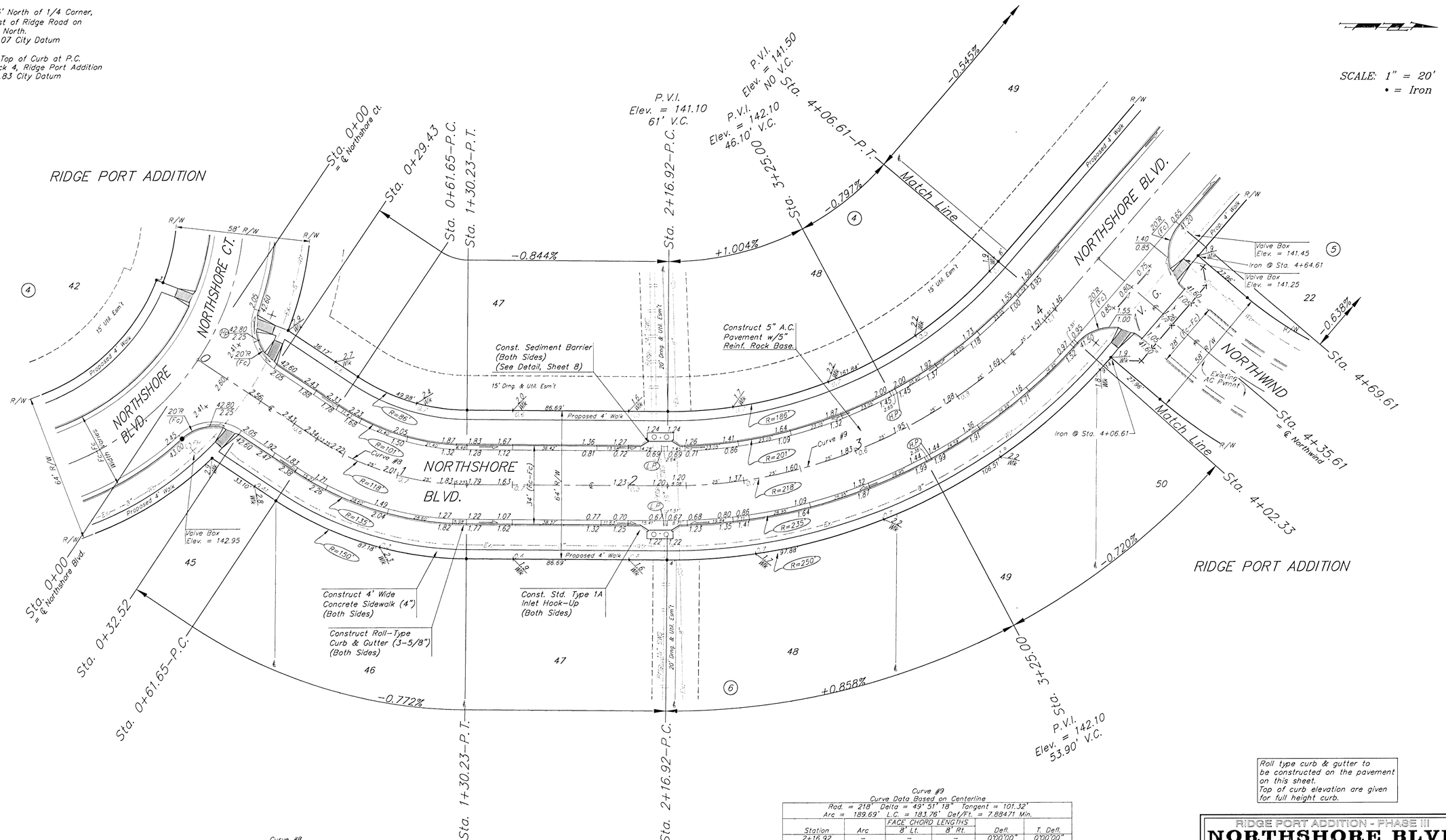
Details 35Block

BENCHMARKS:

City Disc 45' North of 1/4 Corner,
1/2 Mile East of Ridge Road on
29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C.
Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum

SCALE: 1" = 20'
• = Iron




Roll type curb & gutter to be constructed on the pavement on this sheet.
Top of curb elevation are given for full height curb.

Curve #8
Curve Data Based on Centerline
Rad. = 118' Delta = 33° 17' 55" Tangent = 35.29'
Arc = 68.58' L.C. = 67.62' Def/Ft. =14.56632 Min.

| Station | Arc | FACE CHORD LENGTHS 8' Lt. | FACE CHORD LENGTHS 8' Rt. | Defl. | T. Defl. |
|---|---|---|---|---|---|
| 0+61.65 | – | – | – | 0°00'00" | 0°00'00" |
| 0+75.00 | 13.35' | 16.17' | 10.52' | 3°14'28" | 3°14'28" |
| 1+00.00 | 25.00' | 30.24' | 19.67' | 6°04'09" | 9°18'37" |
| 1+25.00 | 25.00' | 30.24' | 19.67' | 6°04'10" | 15°22'47" |
| 1+30.23 | 5.23' | 6.34' | 4.12' | 1°16'11" | 16°38'58" |

Curve #9
Curve Data Based on Centerline
Rad. = 218' Delta = 49° 51' 18" Tangent = 101.32'
Arc = 189.69' L.C. = 183.76' Def/Ft. = 7.88471 Min.

| Station | Arc | FACE CHORD LENGTHS 8' Lt. | FACE CHORD LENGTHS 8' Rt. | Defl. | T. Defl. |
|---|---|---|---|---|---|
| 2+16.92 | – | – | – | 0°00'00" | 0°00'00" |
| 2+25.00 | 8.08' | 7.15' | 9.01' | 1°03'43" | 1°03'43" |
| 2+50.00 | 25.00' | 22.12' | 27.85' | 3°17'07" | 4°20'50 |
| 2+75.00 | 25.00' | 22.12' | 27.85' | 3°17'07" | 7°37'57" |
| 3+00.00 | 25.00' | 22.12' | 27.85' | 3°17'07" | 10°55'04" |
| 3+25.00 | 25.00' | 22.12' | 27.85' | 3°17'07" | 14°12'11" |
| 3+50.00 | 25.00' | 22.12' | 27.85' | 3°17'07" | 17°29'18" |
| 3+75.00 | 25.00' | 22.12' | 27.85' | 3°17'07" | 20°46'25" |
| 4+00.00 | 25.00' | 22.12' | 27.85' | 3°17'07" | 24°03'32" |
| 4+02.33 | 2.33' | 2.06' | 2.60' | 0°18'22" | 24°21'54" |
| 4+06.61 | 4.28' | 3.79' | 4.77' | 0°33'45" | 24°55'39" |

RIDGE PORT ADDITION - PHASE III
**NORTHSHORE BLVD**
STA. 0+00 TO STA. 4+08.61

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
318-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

| PROJECT NUMBER | | | | | SHEET |
|---|---|---|---|---|---|
| 472-89247 | | | | | 11 OF 34 |
| DESIGN BLP/DMV | DRAWN JAK | APPROVED | DATE 3-28-01 | SCALE NOTED | |

Rdgport\Ph3\Str6

**BENCHMARKS:**

City Disc 45' North of 1/4 Corner,
1/2 Mile East of Ridge Rood on
29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C.
Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum

SCALE: 1" = 20'
• = Iron

RIDGE PORT ADDITION

P.V.I. Elev. = 141.50 NO V.C.
Sta. 4+06.61 – P.T.
-0.797%
+0.707%
P.V.I. Elev. = 140.90 43.76' V.C.
Sta. 5+16.61
Sta. 6+43.92
Sta. 6+77.98 = ℄ Northshore Ct.
Sta. 7+03.20
+0.533%
Sta. 8+33.32 – P.T.
Sta. 8+61.62

Sta 4+69.61, 17' Rt.
Install Subdivision Benchmark
(Flat Survey Marker No. 8134–08
3" top diameter) in Top of Curb.
Cost Shall be Incidental to
L.F. Roll–Type Curb & Gutter.

Construct 4' Wide
Concrete Sidewalk (4")
(Both Sides)

Iron @ Sta. 6+48.89

Construct Roll–Type
Curb & Gutter (3–5/8")
(Both Sides)

RESERVE "C"
Extension 10" Wide

Match Line

NORTHSHORE BLVD.

NORTHSHORE CT.

Const. 7" Reinforced Concrete Valley
Gutter Pavement on 5" Rein. Rock
Base w/Monolithic Edge Curb.
(3–5/8") (See Detail, Sheet 5)

Construct Std. Wheel
Chair Ramp (Both Sides)
(See Detail, Sheet 5)

Iron @ Sta. 6+99.83

Sta. 6+96, 24' Lt.
Install Std. D3 (SNS)
Ass'y per City Specs.
" Northshore " &
" Northshore Ct "
" 3301 – 3317 "
(See Detail, Sheet 4)

Sta. 8+63.00
End Construction of
4" Concrete Sidewalk
(Both Sides)

Valve Box
Elevs. = 143.25

Const. Sediment Barrier
(See Detail, Sheet 8)

Valve Box
Elev. = 142.00

Const. Sediment Barrier
(Both Sides)
(See Detail, Sheet 8)

Const. Std. Type 1A
Inlet Hook–Up

Construct 5" A.C.
Pavement w/5"
Reinf. Rock Base.

Valve Box
Elev. = 141.15

Iron @ Sta. 4+64.61

Valve Box
Elevs. = 141.25

Const. 7" Reinforced Concrete Valley
Gutter Pavement on 5" Rein. Rock
Base w/Monolithic Edge Curb.
(3–5/8") (See Detail, Sheet 5)

Const. Std. Type 1A
Inlet Hook–Up
(Both Sides)

Valve Box
Elevs. = 142.95

Sta. 4+07, 23' Rt.
Install Std. D3 (SNS)
Ass'y per City Specs.
" Northshore " &
" Northwind "
(See Detail, Sheet 4)

Iron @ Sta. 4+06.61

Construct Std. Wheel
Chair Ramp (Both Sides)
(See Detail, Sheet 5)

Construct 59 L.F. Silt Fence
Sediment Barrier as Shown.
(See Detail, Sheet 13.)
To be Bid as L.F. "Silt Fence"

Install End of Road
Markers (Red) as Shown.
(See Detail, Sheet 4.)

Install End of Road Markers
(Red) as Shown.
From Sta. 0+22, Sheet 6.
(See Detail, Sheet 4.)

Construct 65 L.F. Silt Fence
Sediment Barrier as Shown.
(See Detail, Sheet 13.)
To be Bid as L.F. "Silt Fence"

Sta. 8+61.62
End Construction of
5" A.C. Pavement w/
5" Reinf. Rock Base

Sta. 4+02.33
Sta. 4+35.61 ℄ Northwind
Sta. 4+69.61
Sta. 5+16.61
P.V.I. Sta. 6+48.89 – P.C.
Sta. 6+75.00
P.V.I. Elev. = 140.90 47.94' V.C.
P.V.I. Elev. = 142.05 No V.C.
-0.720%
-0.638%
+0.736%
+0.603%
Sta. 8+33.32 – P.T.
Sta. 8+61.62
Sta. 8+61.62 ℄ Northwind

RIDGE PORT ADDITION

Roll type curb & gutter to
be constructed on the pavement
on this sheet.
Top of curb elevation are given
for full height curb.

Curve #10
Curve Data Based on Centerline
Rad. = 214' Delta = 49° 22' 43" Tangent = 98.38'
Arc = 184.43' L.C. = 178.77' Def./Ft. = 8.03209 Min.

| | | FACE CHORD LENGTHS | | | |
|---|---|---|---|---|---|
| Station | Arc | 8 Lt. | 8 Rt. | Defl. | T. Defl. |
| 6+48.89 | → | → | → | 0°00'00" | 0°00'00" |
| 6+75.00 | 26.11' | 29.14' | 23.05' | 3°29'43" | 3°29'43" |
| 7+00.00 | 25.00' | 27.90' | 22.07' | 3°20'48" | 6°50'31" |
| 7+03.20 | 3.20' | 3.57' | 2.83' | 0°25'42" | 7°16'13" |
| 7+25.00 | 21.80' | 24.34' | 19.24' | 2°55'06" | 10°11'19" |
| 7+50.00 | 25.00' | 27.90' | 22.07' | 3°20'48" | 13°32'07" |
| 7+75.00 | 25.00' | 27.90' | 22.07' | 3°20'49" | 16°52'56" |
| 8+00.00 | 25.00' | 27.90' | 22.07' | 3°20'48" | 20°13'44" |
| 8+25.00 | 25.00' | 27.90' | 22.07' | 3°20'48" | 23°34'32" |
| 8+33.32 | 8.32' | 9.29' | 7.35' | 1°06'50" | 24°41'22" |

RIDGE PORT ADDITION - PHASE III
**NORTHSHORE BLVD**
STA. 4+06.61 TO STA. 8+61.62

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER 472-89247
SHEET 12 of 34

| DESIGN | DRAWN | APPROVED | DATE | SCALE |
|---|---|---|---|---|
| BLP/DMV | JAK | | 3-28-07 | NOTED |

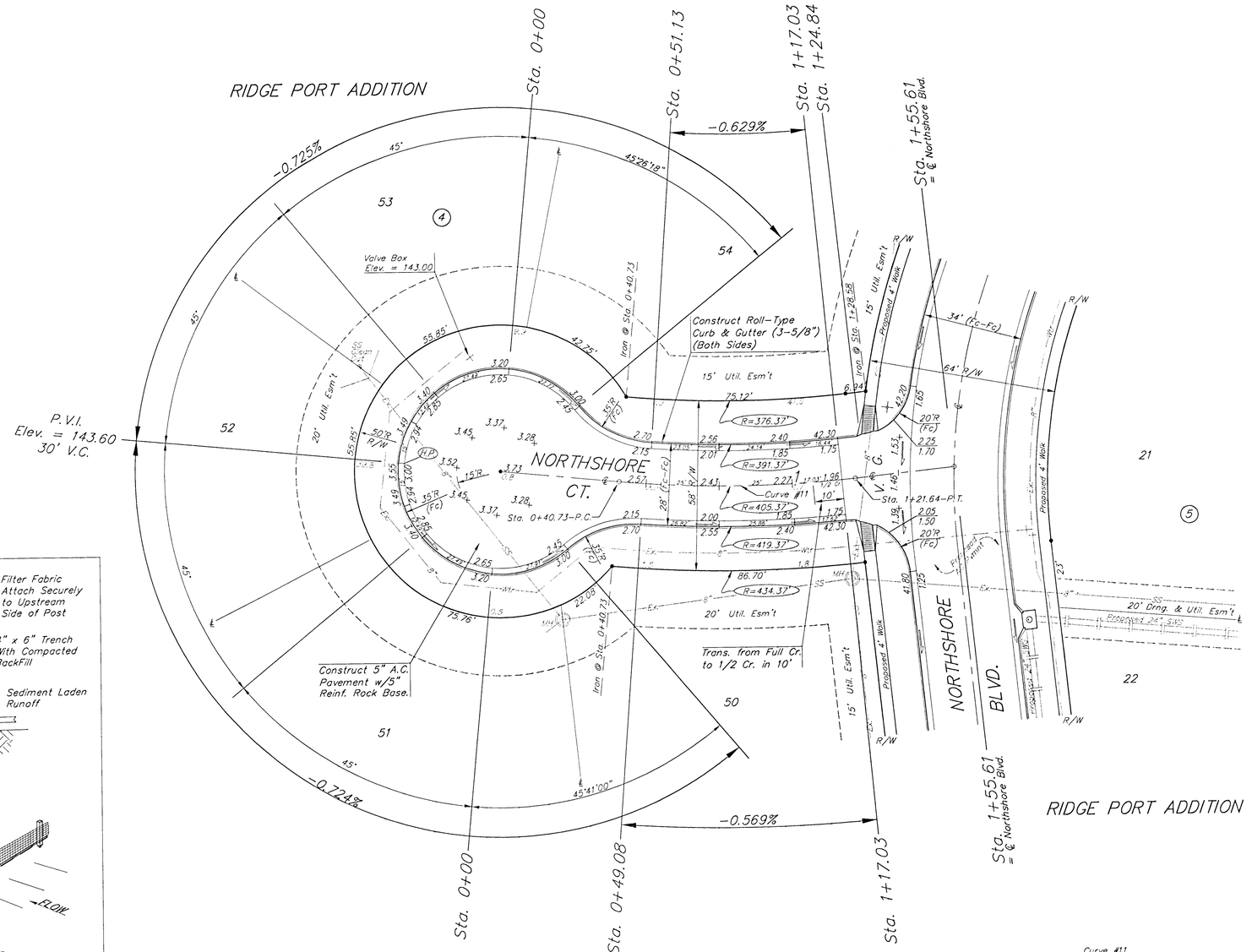
K:\Street\12x34.11.ai

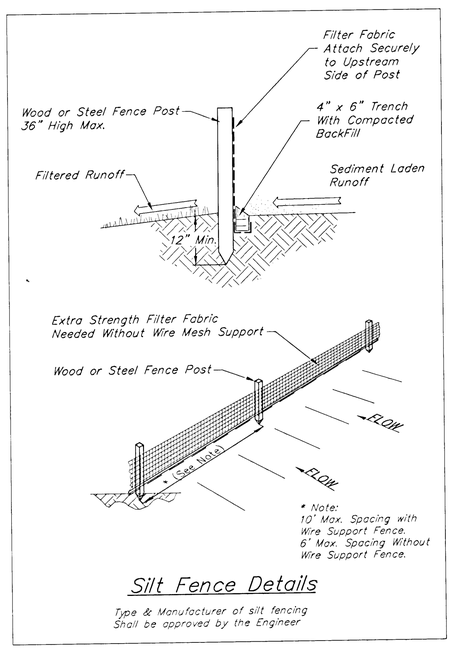
BENCHMARKS:

City Disc 45' North of 1/4 Corner,
1/2 Mile East of Ridge Road on
29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C.
Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum

SCALE: 1" = 20'
• = Iron




## Silt Fence Details

Type & Manufacturer of silt fencing
Shall be approved by the Engineer

Curve #11
Curve Data Based on Centerline
Rad. = 405.37' Delta = 11°38'10" Tangent = 40.59'
Arc = 80.91' L.C. = 80.78' Def/Ft. = 4.2403' Min.

| Station | Arc | FACE CHORD LENGTHS 8' Lt. | 8' Rt. | Defl. | T. Defl. |
|---|---|---|---|---|---|
| 0+40.73 | – | – | – | 0°00'00" | 0°00'00" |
| 0+49.08 | 8.35' | 7.90' | 8.80' | 0°35'24" | 0°35'24" |
| 0+51.13 | 2.05' | 1.94' | 2.16' | 0°08'42" | 0°44'06" |
| 0+75.00 | 23.87' | 22.57' | 25.16' | 1°41'13" | 2°25'19" |
| 1+00.00 | 25.00' | 23.64' | 26.35' | 1°46'00" | 4°11'19" |
| 1+17.03 | 17.03' | 16.10' | 17.95' | 1°12'13" | 5°23'32" |
| 1+21.64 | 4.61' | 4.36' | 4.86' | 0°19'33" | 5°43'05" |

Roll type curb & gutter to
be constructed on the pavement
on this sheet.
Top of curb elevation are given
for full height curb.

RIDGE PORT ADDITION - PHASE III
**NORTHSHORE CT**
LOTS 50-54, BLOCK 4

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

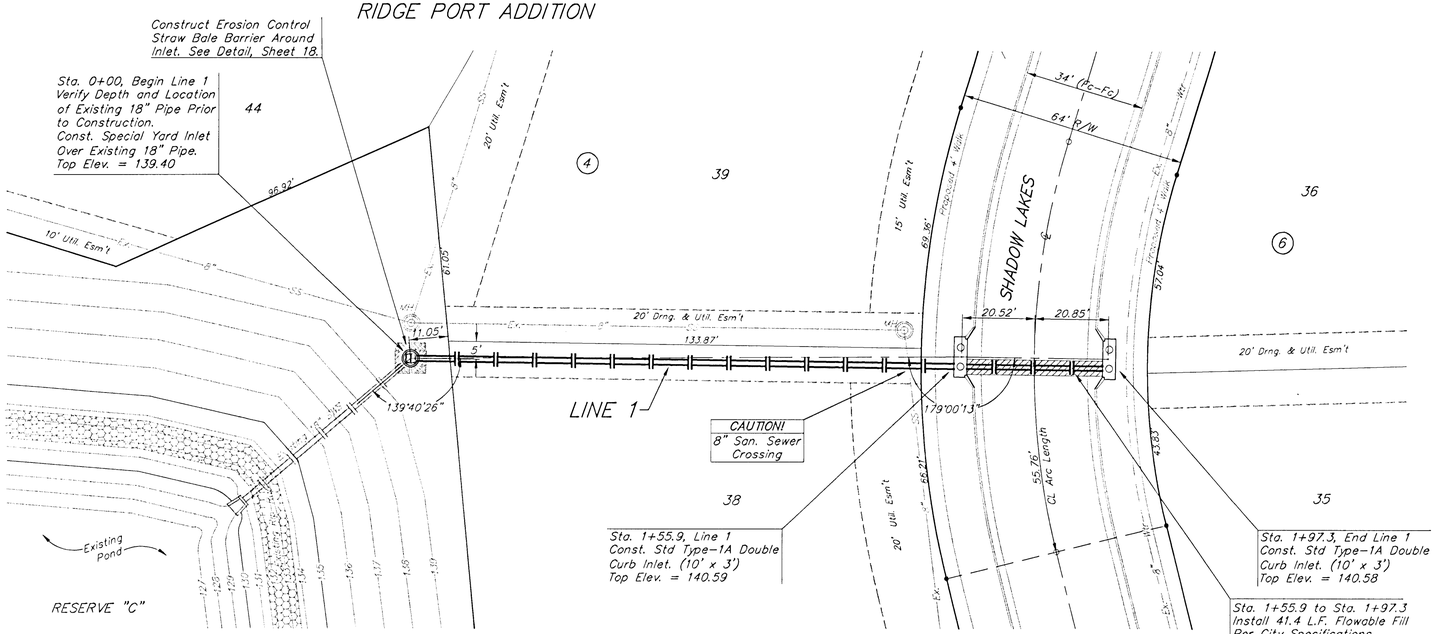
PROJECT NUMBER 472-88247
SHEET 13 OF 34
DESIGN BLP/DMV | DRAWN JAK | APPROVED | DATE 3-28-01 | SCALE NOTED

BENCHMARKS:

City Disc 45' North of 1/4 Corner, 1/2 Mile East of Ridge Road on 29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C. Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum

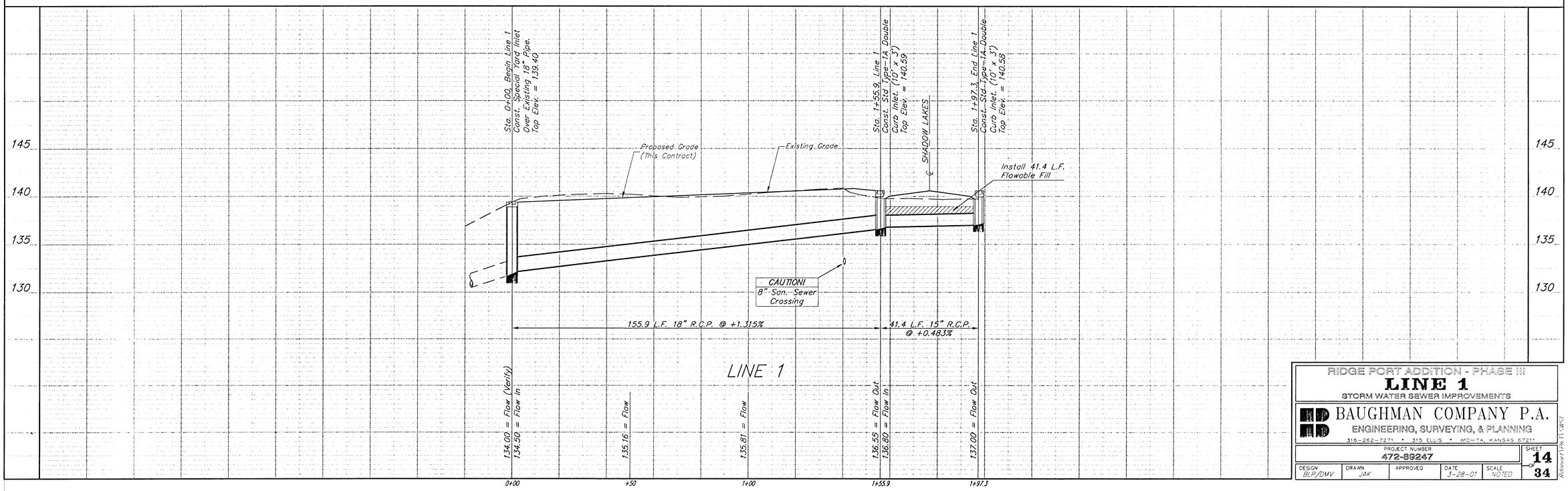
RIDGE PORT ADDITION




SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON

Note: Protective Fill to be Placed and Compacted per City Specs Prior to Storm Sewer Installation.

RIDGE PORT ADDITION




RIDGE PORT ADDITION - PHASE III

**LINE 1**

STORM WATER SEWER IMPROVEMENTS


BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211


| PROJECT NUMBER | SHEET |
|---|---|
| 472-89247 | 14 of 34 |

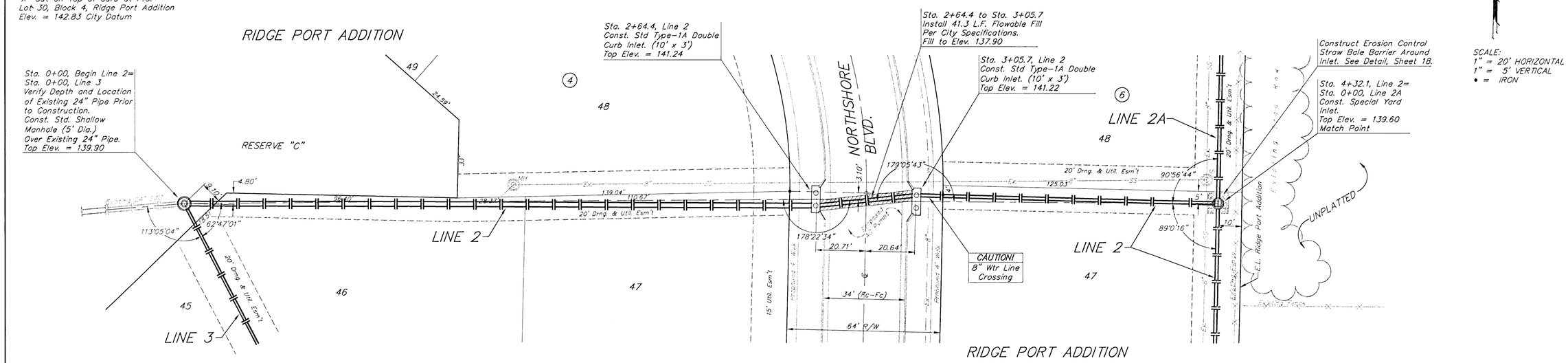
| DESIGN | DRAWN | APPROVED | DATE | SCALE |
|---|---|---|---|---|
| BLP/DMV | JAK | | 3-28-01 | NOTED |

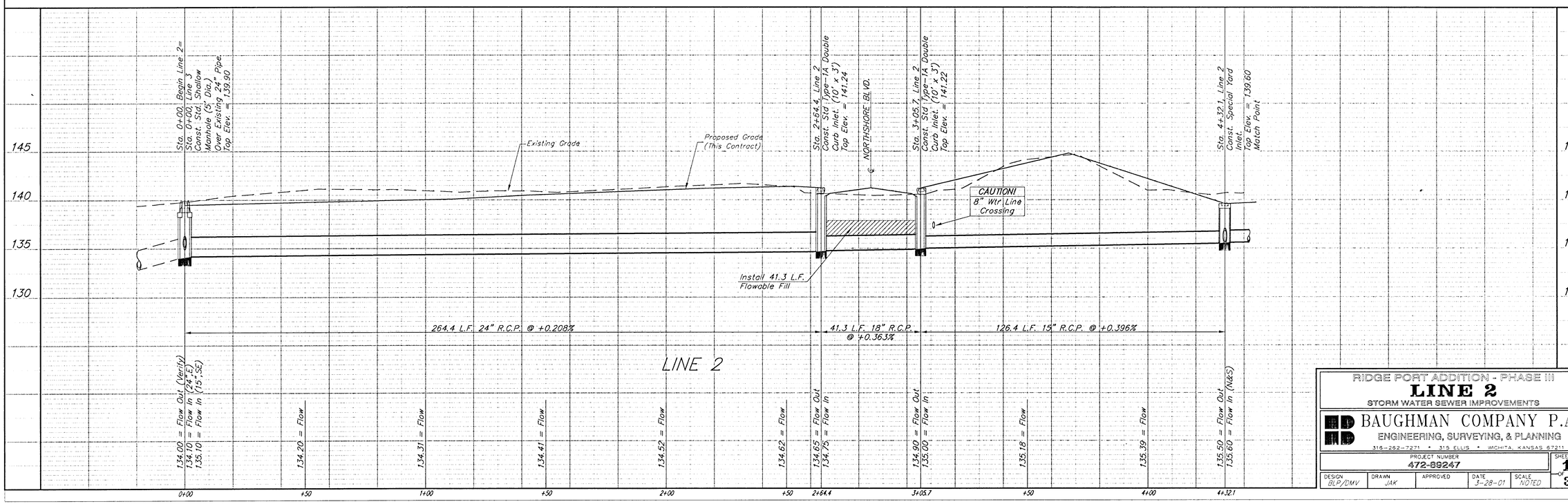
Released 1/29/01 VAPC

BENCHMARKS:

City Disc 45' North of 1/4 Corner, 1/2 Mile East of Ridge Road on 29th Street North. Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C. Lot 30, Block 4, Ridge Port Addition Elev. = 142.83 City Datum




RIDGE PORT ADDITION - PHASE III

# LINE 2

STORM WATER SEWER IMPROVEMENTS

BAUGHMAN COMPANY P.A.

ENGINEERING, SURVEYING, & PLANNING

316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

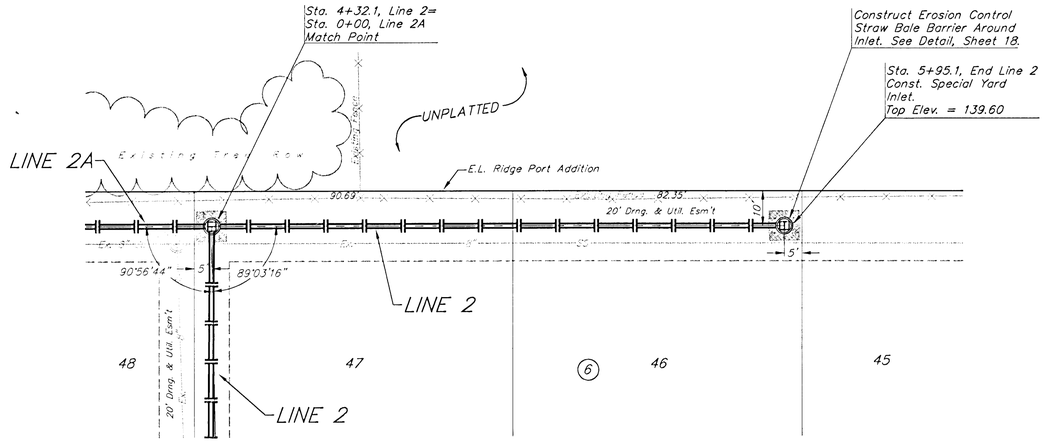
| PROJECT NUMBER | | | | | SHEET |
|---|---|---|---|---|---|
| 472-89247 | | | | | 15 OF 34 |
| DESIGN BLP/DMV | DRAWN JAK | APPROVED | DATE 3-28-01 | SCALE NOTED | |

BENCHMARKS:

City Disc 45' North of 1/4 Corner,
1/2 Mile East of Ride Road on
29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C.
Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum

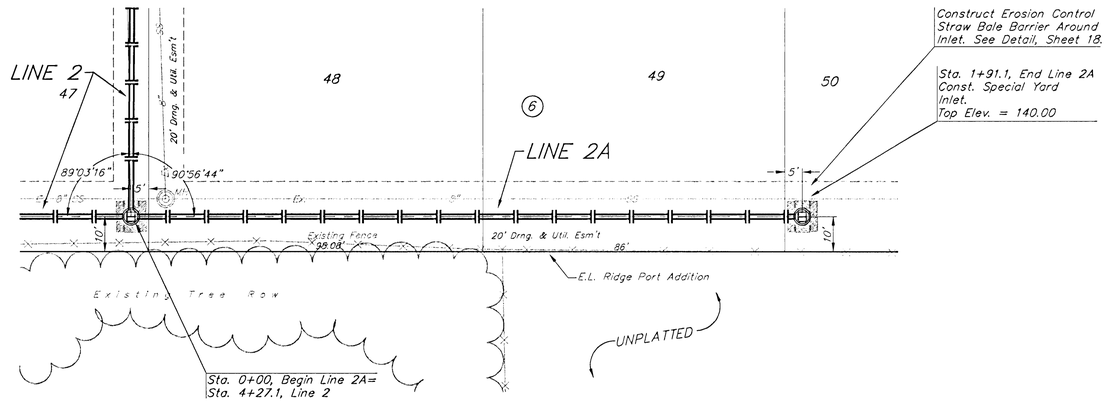
SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON

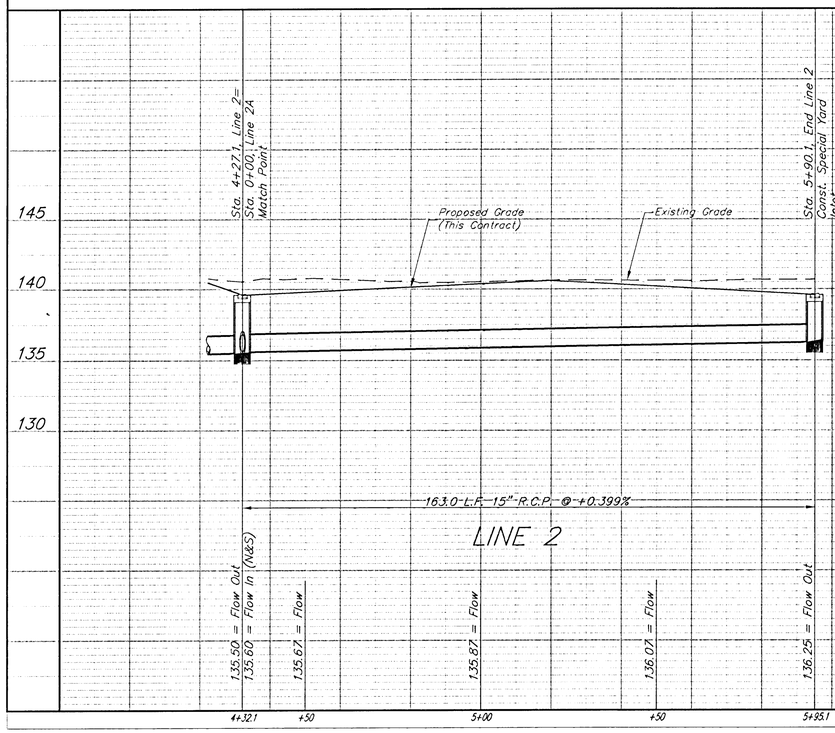


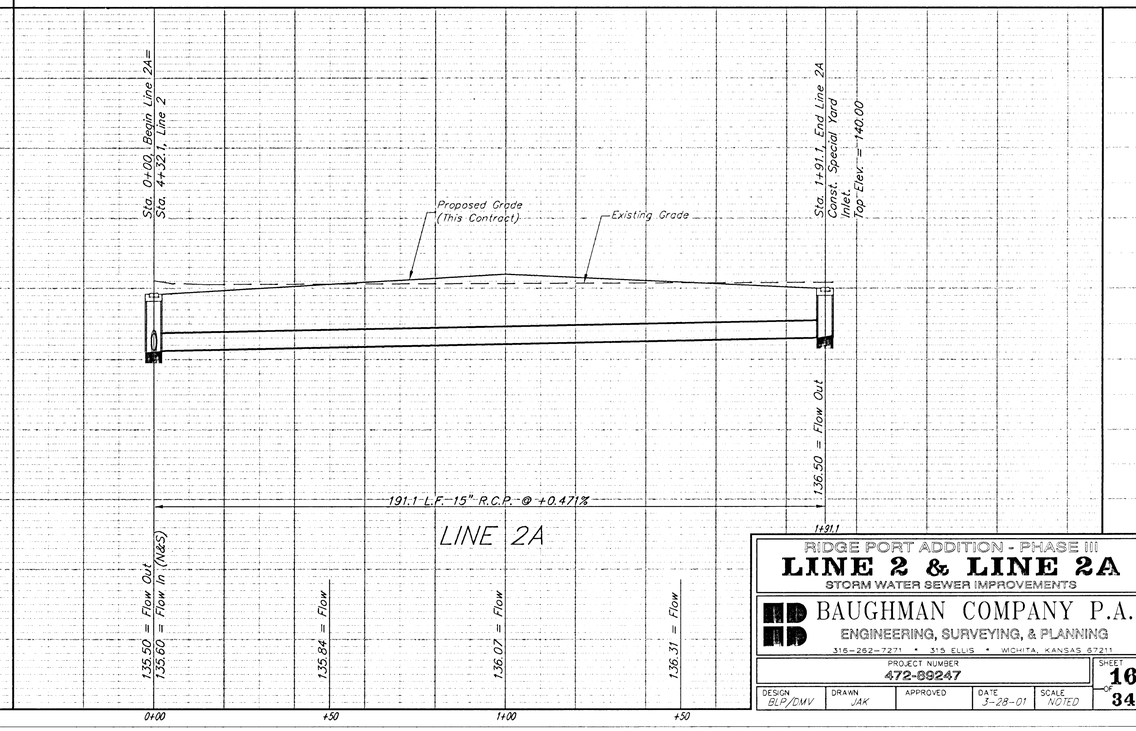

RIDGE PORT ADDITION

SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON

RIDGE PORT ADDITION




RIDGE PORT ADDITION - PHASE III

# LINE 2 & LINE 2A

STORM WATER SEWER IMPROVEMENTS

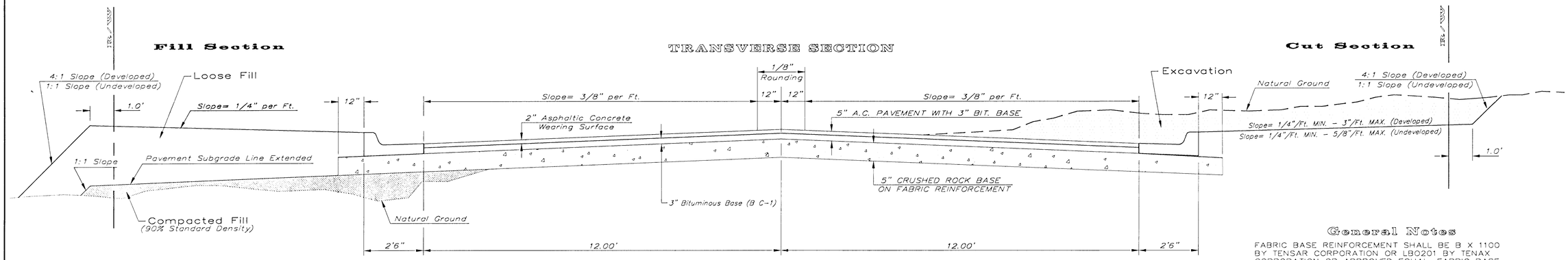

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211


| PROJECT NUMBER | | | | | SHEET |
|---|---|---|---|---|---|
| 472-89267 | | | | | 16 of 34 |
| DESIGN | DRAWN | APPROVED | DATE | SCALE | |
| BLP/DMV | JAK | | 3-28-01 | NOTED | |

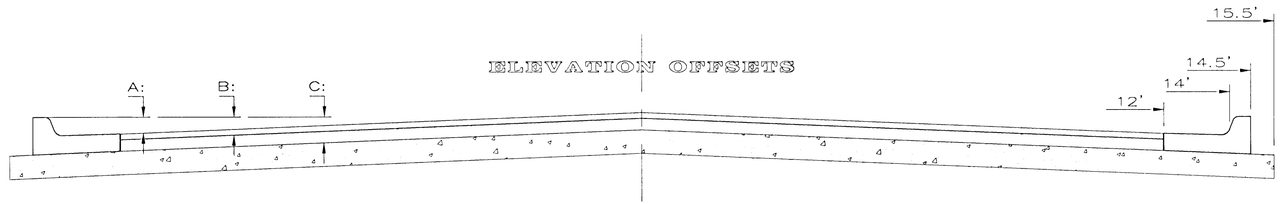
Reference Field Book 1

# TYPICAL 29' B-B PAVEMENT DETAILS

## TRANSVERSE SECTION




## ELEVATION OFFSETS

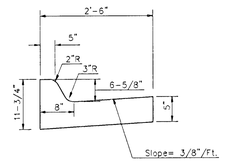



| DISTANCE FROM CENTERLINE (LT. & RT.) | 0' | 2' | 4' | 6' | 7' | 8' | 10' | 12' | 14' | 14.5' | 15.5' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A: Top of Curbs to Top of Surface Lift | 0.13 | 0.18 | 0.24 | 0.30 | 0.33 | 0.36 | 0.43 | 0.49 | – | – | – |
| B: Top of Curbs to Top of Upper Base Lift | 0.30 | 0.35 | 0.41 | 0.47 | 0.50 | 0.53 | 0.60 | 0.66 | – | – | – |
| C: Top of Curbs to Top of C.R. Subgrade | 0.55 | 0.60 | 0.66 | 0.72 | 0.75 | 0.78 | 0.85 | 0.91 | 0.97 | 0.98 | 1.01 |

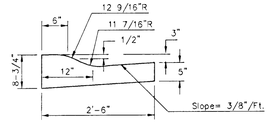
*CRUSHED ROCK GRADATION REQUIREMENTS*
PERCENT OF AGGREGATE RETAINED

| | |
|---|---|
| 2-1/2" | 0 |
| 3/4" | 20 – 60 |
| #4 | 50 – 80 |
| #40 | 80 – 94 |
| #200 | 90 – 98 |

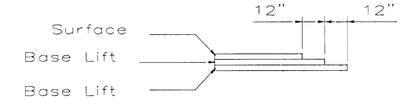
ROCK QUALITY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BE THE KDOT 1990 EDITION STANDARD SPECIFICATION SUBSECTION 1102 FOR DURABILITY CLASS I.




COMBINED CURB & GUTTER

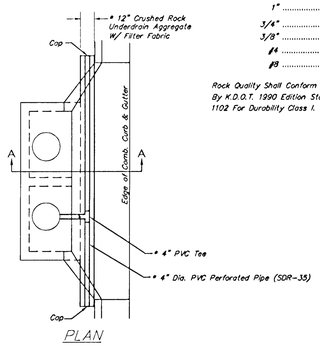



COMBINED ROLL TYPE CURB & GUTTER




TRANSVERSE CONSTRUCTION JOINTS

Transverse construction joints shall be constructed in flexible base pavements at locations where pavement joins existing flexible base pavement as shown by the detail. All costs associated with the construction of the transverse joint shall be included in the bid price for Square Yards 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE).



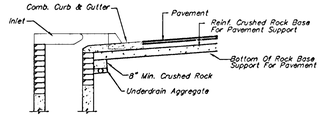

PLAN

* UNDERDRAIN AGGREGATE
Percent of Aggregate Retained

| | |
|---|---|
| 1" | 0 |
| 3/4" | 0 to 10 |
| 3/8" | 45 to 80 |
| #4 | 90 to 100 |
| #8 | 95 to 100 |

*Rock Quality Shall Conform To The Requirements Specified By K.D.O.T. 1990 Edition Standard Specification Subsection 1102 For Durability Class I.*

*NOTE: Place 4" PVC Perforated Pipe at all drainage sump locations.*
*Cost of Underdrain System to be Incidental to the Reinforced Crushed Rock Subgrade.*
*Inlet Type May Vary From That Shown.*




(Min. 16 Perforations Per Lin. Ft. @ 1/4" Dia.)
Perforations To Be on Bottom Half

SECTION A-A

PAVEMENT UNDERDRAIN DETAIL
NOT TO SCALE

## General Notes

FABRIC BASE REINFORCEMENT SHALL BE B X 1100 BY TENSAR CORPORATION OR LBO201 BY TENAX CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

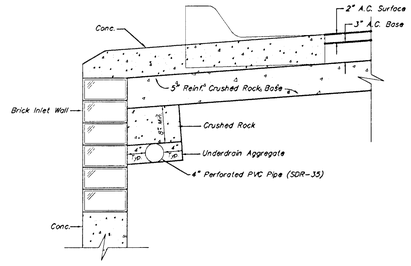
ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE.)



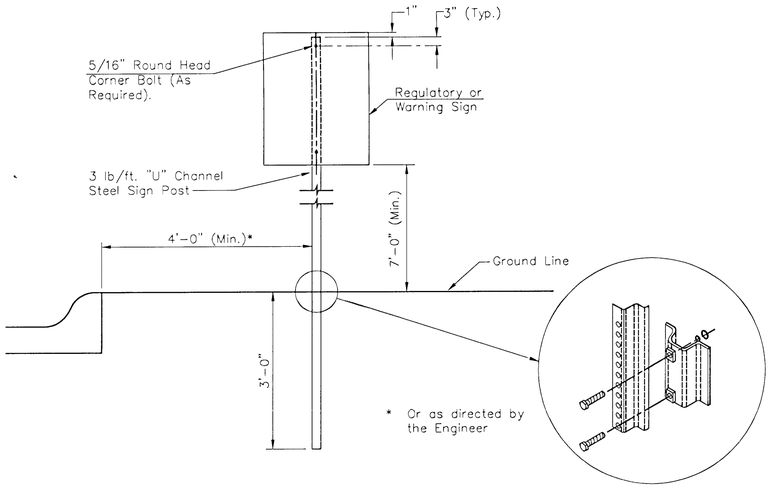

TRENCH DRAIN DETAIL FOR RES. STREETS
NOT TO SCALE

5 INCH Residential Asphaltic Concrete
Pavement w/Crushed Rock Base on Fabric Reinforcement
City of Wichita, Kansas


BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

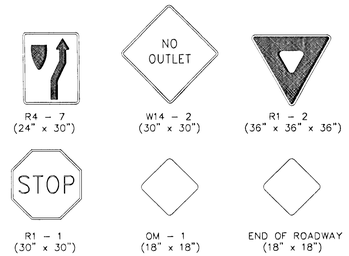

| PROJECT NUMBER | | | | | SHEET |
|---|---|---|---|---|---|
| 472-892.47 | | | | | 3 OF 34 |
| DESIGN: C.O.W. | DRAWN: Staff | APPROVED | DATE: 5-28-01 | SCALE | |

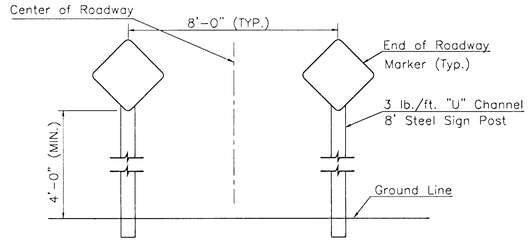
Details\Barick



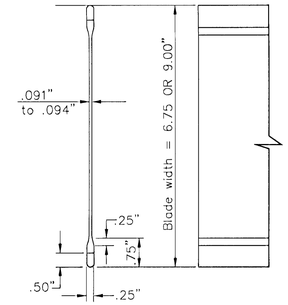

*TYPICAL TRAFFIC CONTROL SIGN MOUNTING INSTALLATION*

*CURB AND GUTTER SECTION*




*TYPICAL END OF ROADWAY SIGN MOUNTING INSTALLATION*




*STREET NAME SIGN*

*BLADE DETAILS*

## *SIGN ASSEMBLY TABLE*

| *STREET* | *STATION* | *OFFSET* | *SIGN* | *QUANTITY** |
|---|---|---|---|---|
| *Shadow Lakes* | *1+53* | *23' Rt.* | *D3 (SNS)* | *1* |
| *Shadow Lakes* | *6+54* | *23' Rt.* | *D3 (SNS)* | *1* |
| *Northshore Blvd.* | *6+99* | *23' Rt.* | *D3 (SNS)* | *1* |
| *Northshore Blvd.* | *10+35* | *20' Rt.* | *D3 (SNS)* | *1* |
| *Northshore Blvd.* | *4+07* | *23' Rt.* | *D3 (SNS)* | *1* |
| *Northshore Blvd.* | *6+96* | *24' Lt.* | *D3 (SNS)* | *1* |
| *Northshore Blvd.* | *8+63* | *4' Rt.,Lt.* | *EOR* | *2* |
| | | | | |
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| | | | | |
| | | | | |
| | | *TOTAL* | | *7* |

** For Information Only*

NOTE: REFERENCES BELOW TO "STANDARD SPECIFICATIONS" DENOTE "STANDARD SPECIFICATION FOR STATE ROAD AND BRIDGE CONSTRUCTION EDITION 1990" BY THE KANSAS DEPARTMENT OF TRANSPORTATION.

1. POST ANCHORS: POSTS SHALL BE ANCHORED WITH A YIELDING BASE POST SUPPORT AS DETAILED.
2. POSTS FOR TRAFFIC CONTROL SIGNS: POSTS SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1620 OF THE STANDARD SPECIFICATIONS EXCEPT THAT ALL POSTS SHALL WEIGH 3 LBS./FOOT MINIMUM.
3. POSTS FOR STREET NAME SIGNS (SNS): POSTS SHALL BE 9 FEET LONG, CONSTRUCTED FROM 2 3/8" O.D. GALVANIZED STEEL PIPE WEIGHING A MINIMUM OF 3 LBS./FOOT. POSTS SHALL BE POSITIONED SO THAT THE BOTTOM BLADE IS 7 FEET ABOVE GRADE.
4. POSTS FOR END OF ROADWAY SIGN TO BE 8' LONG AND INSTALLED A MINIMUM OF 4' FROM ROADWAY TO BOTTOM OF SIGN.
5. SIGN BLANKS FOR TRAFFIC CONTROL SIGNS: SIGN BLANKS SHALL BE FABRICATED FROM 0.080" ALUMINUM ALLOY 6063-T6 CONFORMING TO THE REQUIREMENTS OF SUBSECTION 1626 OF THE STANDARD SPECIFICATIONS.
6. SIGN BLADES FOR STREET NAME SIGNS: EXTRUDED ALUMINUM BLADES SHALL BE ALUMINUM ALLOY CONFORMING TO 6063-T6 OR 5052-H38 (ASTM SPECIFICATION B221, LATEST ISSUE). BLADES SHALL HAVE AN ALODINE OR PHOSPHATE ETCHED FINISH. BLADES SHALL HAVE SQUARE CORNERS AND NO HOLES.

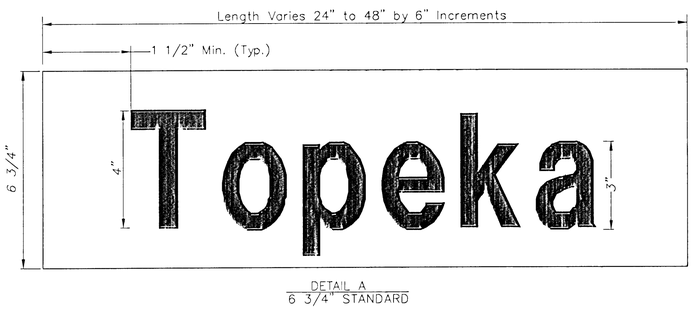
   MINIMUM BLADE LENGTH SHALL BE 24". MAXIMUM BLADE LENGTH SHALL BE 48". LENGTH VARIES BY INCREMENTS OF 6".

   BLADES BEARING THE STREET NAMES SHALL BE FIRMLY ATTACHED TO THE MOUNTING BRACKETS USING ALLEN-TYPE SET SCREWS. THE BLADES SHALL BE ORIENTED PARALLEL TO THE STREET.
7. MOUNTING BRACKETS FOR SIGNS: DIE-CAST ALUMINUM BRACKETS SHALL BE ALUMINUM ALLOY 360 HAVING A TENSILE STRENGTH OF 44,000 PSI. THE BRACKETS SHALL BE SMOOTHLY FINISHED FREE OF PITS, BURRS, AND FLAWS. EACH BRACKET SHALL BE TAPPED AND DRILLED FOR 5/16" ZINC-PLATED ALLEN-TYPE SET SCREWS HAVING SELF-LOCKING SAW-TOOTH ENDS.
8. FASTENERS: ALL STEEL FASTENERS FOR TRAFFIC CONTROL SIGNS SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1614 OF THE STANDARD SPECIFICATIONS.
9. REFLECTIVE SHEETING: REFLECTIVE SHEETING SHALL BE TYPE II - HIGH PERFORMANCE CLASS HA IN ACCORDANCE WITH SUBSECTION 2201 OF THE STANDARD SPECIFICATIONS.
10. PROCESS INK: ALL PROCESS INK SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 2202 OF THE STANDARD SPECIFICATIONS.
11. DETAILS: REGULATORY AND WARNING SIGNS SHALL CONFORM TO THE DETAILS IN "STANDARD HIGHWAY SIGNS", FHWA, 1979.
12. DETAILS - SNS: THE REFLECTIVE SHEETING FOR THE 6 3/4" STANDARD SIZE SNS IS TO BE THE HIGHWAY GREEN BACKGROUND WITH SILVER-WHITE #2 COPY WITH 4" UPPER CASE AND LOWER CASE PRIMARY COPY AND SUFFIX COPY, BOTH SERIES "C". FACES TO TRIM TO A 6 1/4". (SEE DETAIL A.)

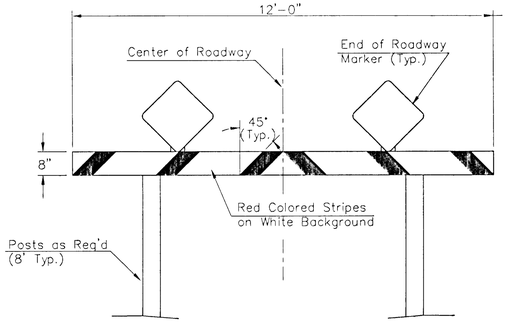
    THE REFLECTIVE SHEETING FOR THE 9" METRO SIZE SNS IS TO BE THE HIGHWAY GREEN BACKGROUND WITH SILVERWHITE #2 COPY WITH 5" UPPER CASE AND LOWER CASE PRIMARY COPY AND SUFFIX COPY, BOTH SERIES "C". THE CARDINAL DIRECTION CENTERED DIRECTLY BELOW THE BLOCK NUMBER SHALL BE AN UPPER CASE, 3" SERIES "C" LETTER. FACES TO TRIM TO A 8 1/2" WIDTH. (SEE DETAIL B.)

    FOR CUL-DE-SAC STREETS, A 9" METRO SIZE BLADE SHALL BE USED WITH THE HOUSE NUMBERS DISPLAYED BENEATH THE STREET NAME. LETTERING TO BE THE SAME AS FOR THE 6 3/4" SIZE BLADE, EXCEPT THAT THE HOUSE NUMBER INFORMATION SHALL BE 4" SERIES "C".

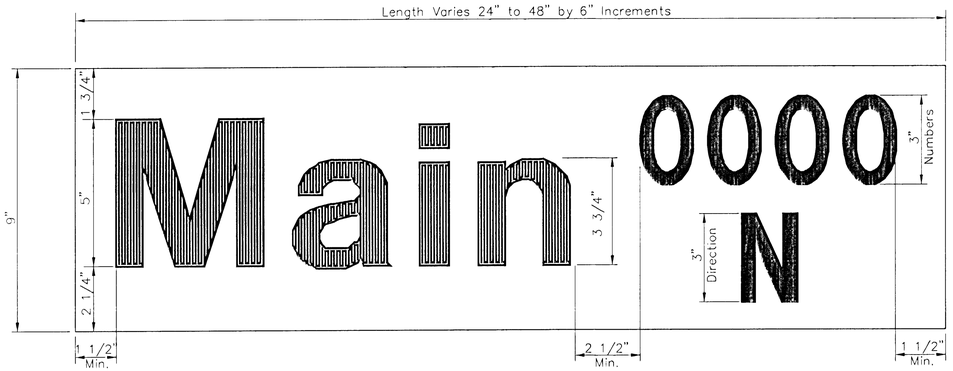
    SHOP DRAWINGS OF LAYOUT FOR SNS SHALL BE SUBMITTED TO THE TRAFFIC ENGINEERING DIVISION OF THE CITY OF WICHITA FOR APPROVAL PRIOR TO FABRICATION. THE FINISHED SIGNS AS SUPPLIED SHALL BE OF GOOD APPEARANCE, FREE FROM RAGGED EDGES, CRACKS SCALES OR BLISTERS AND SHALL BE CLEAN-CUT. SIGNS SHALL BE PACKED IN SUCH MANNER AS TO PREVENT DAMAGE OR DEFACEMENT DURING SHIPMENT OR STORAGE.
13. PERMANENT TRAFFIC CONTROL AND SNS: PERMANENT TRAFFIC CONTROL AND SNS SHALL BE MEASURED AND PAID FOR AT THE LUMP SUM PRICE FOR SIGNING. THE PAYMENT AS SET FORTH ABOVE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EXCAVATION, BACKFILLING, POSTS, ANCHORS, FASTENERS, MATERIALS, LABOR, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.




DETAIL A
6 3/4" STANDARD

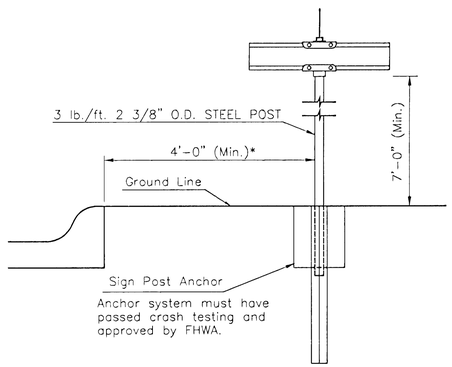



*TYPE I BARRICADE DETAIL W/ E.O.R. MARKER*




DETAIL B
9" METRO

| *STREET NAME* | *NO. BLADES REQ'D* | |
|---|---|---|
| | *6 3/4" STD* | *9" METRO* |
| *Shadow Lakes* | *2* | |
| *Shadow Lakes Ct (6601 - 6613)* | | *1* |
| *Shadow Lakes Ct (6407 - 6423)* | | *1* |
| *Northshore* | *4* | |
| *Northshore Ct (3205 - 3225)* | | *1* |
| *Northwind* | *1* | |
| *Northshore Ct (3301 - 3317)* | | *1* |
| | | |




*TYPICAL STREET NAME SIGN MOUNTING INSTALLATION*

*CURB AND GUTTER SECTION*

City of Wichita Public Works

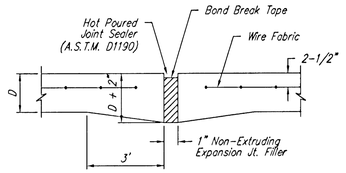
# SIGNING DETAIL

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

| PROJECT NUMBER | SHEET |
|---|---|
| 472-89247 | 4 OF 34 |

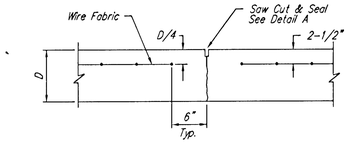
| DESIGN | DRAWN | APPROVED | DATE | SCALE |
|---|---|---|---|---|
| C.O.W. | Staff | | 5-28-01 | NONE |

rport\plts\signdet

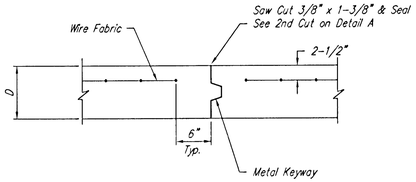



EXPANSION JOINT

NOTE: Extra Thickness to be Subsidiary to Price of Square Yards Pavement




CONTRACTION JOINT DETAIL (C.J.)




OPTIONAL CONTRACTION JOINT (CONSTRUCTION JOINT)



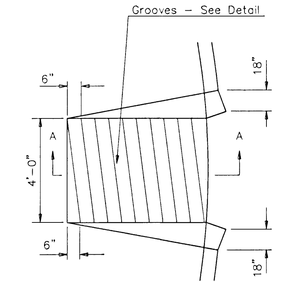

LONGITUDINAL JOINT DETAIL (L.J.)



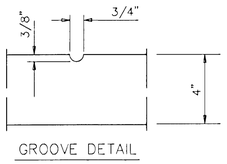

OPTIONAL LONGITUDINAL JOINT DETAIL (L.J.) (CONSTRUCTION JOINT)



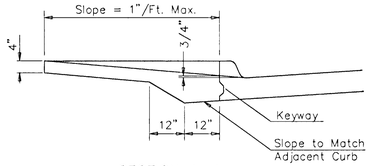

KEYWAY DETAIL



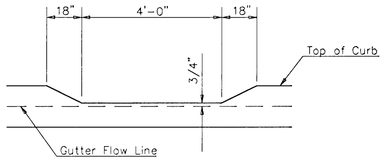

WHEELCHAIR RAMP PLAN VIEW




GROOVE DETAIL

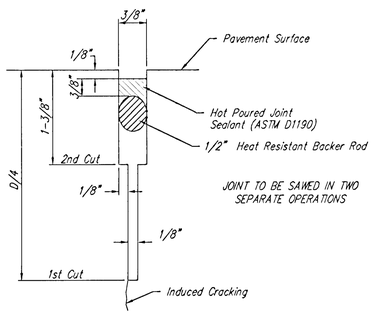



SECTION A-A

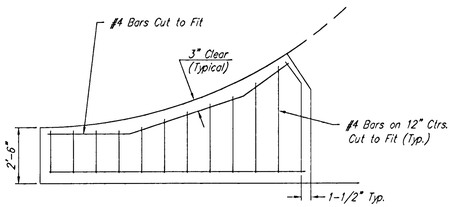



DEPRESSED CURB DETAIL

WHEELCHAIR RAMP DETAIL

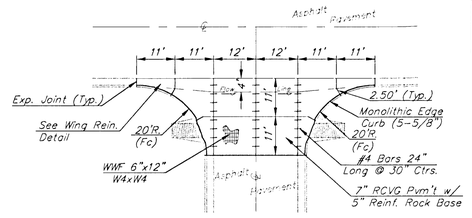



SAW JOINT DETAIL "A"



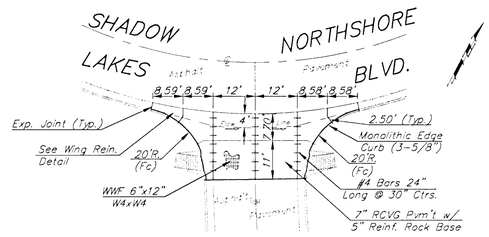

WING REINFORCING DETAIL

SHADOW LAKES




SHADOW LAKES CT.

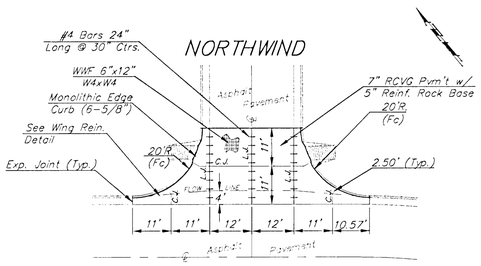
(LOTS 31-34, BLOCK 6)




SHADOW LAKES CT.

(LOTS 37-41, BLOCK 6)

NOTE: 6"x12" W4xW4 Wire Fabric Reinforcing Shall Be Placed So That The Wires With The 6" Spacing Will Run Parallel With The Longitudinal Joints.




NORTHSHORE BLVD.

VALLEY GUTTER DETAILS

Scale: 1" = 20'

RIDGE PORT ADDITION - PHASE III

**VALLEY GUTTER & MISCELLANEOUS DETAILS**

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 313 ELLIS • WICHITA, KANSAS 67211

| PROJECT NUMBER | | | | | SHEET |
|---|---|---|---|---|---|
| 472-89247 | | | | | 5 OF 34 |
| DESIGN | DRAWN | APPROVED | DATE | SCALE | |
| BLP/DMV | JAK | | 3-28-01 | NONE | |

Ridgport Val 5 Valplot

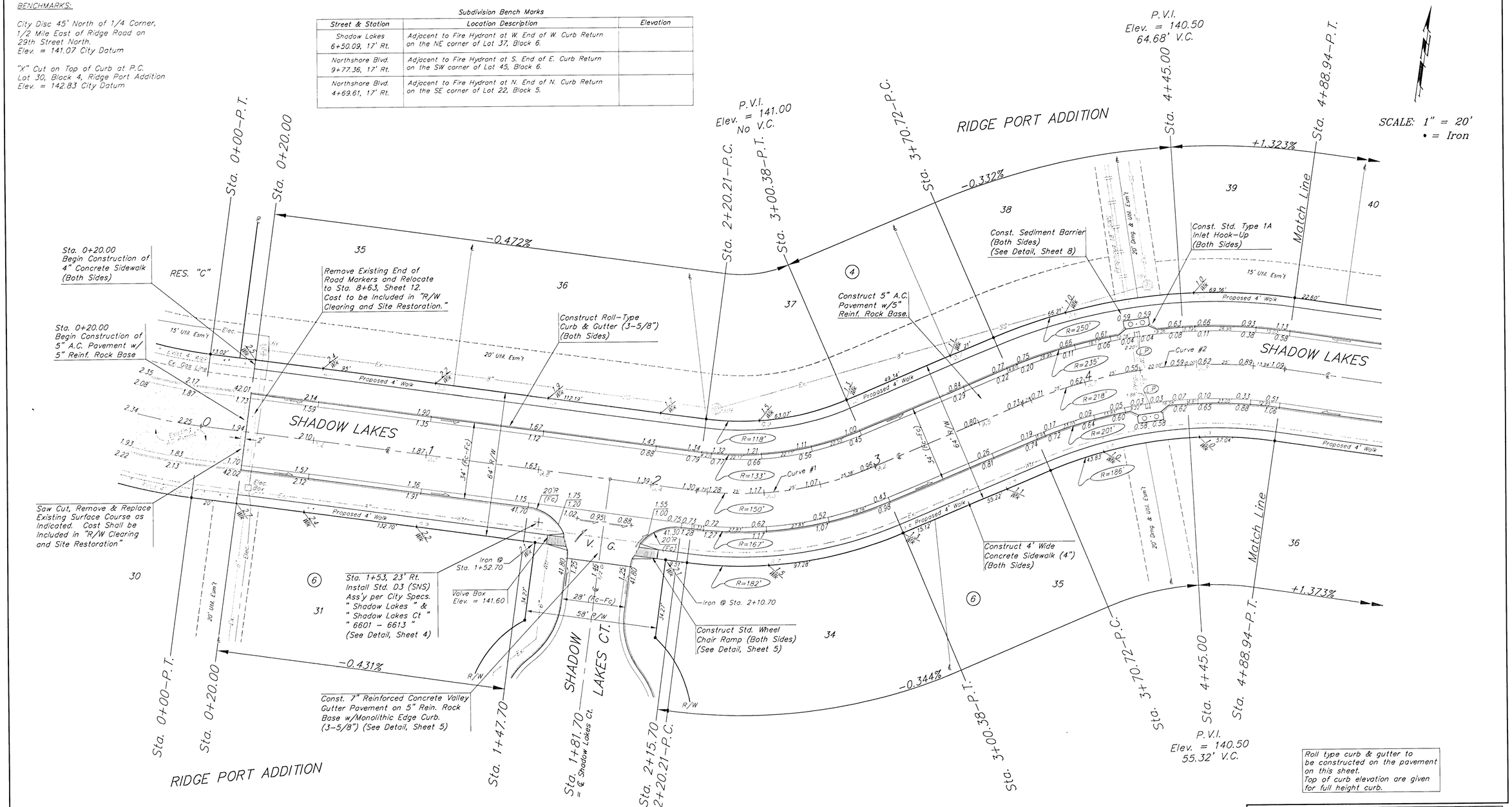
BENCHMARKS:

City Disc 45' North of 1/4 Corner, 1/2 Mile East of Ridge Road on 29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C. Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum

Subdivision Bench Marks

| Street & Station | Location Description | Elevation |
|---|---|---|
| Shadow Lakes 6+50.09, 17' Rt. | Adjacent to Fire Hydrant at W. End of W. Curb Return on the NE corner of Lot 37, Block 6. | |
| Northshore Blvd. 9+77.36, 17' Rt. | Adjacent to Fire Hydrant at S. End of E. Curb Return on the SW corner of Lot 45, Block 6. | |
| Northshore Blvd. 4+69.61, 17' Rt. | Adjacent to Fire Hydrant at N. End of N. Curb Return on the SE corner of Lot 22, Block 5. | |




Roll type curb & gutter to be constructed on the pavement on this sheet.
Top of curb elevation are given for full height curb.

Curve #1
Curve Data Based on Centerline

Rad. = 150' Delta = 30° 37' 25" Tangent = 41.07'
Arc = 80.17' L.C. = 79.22' Def/Ft. =11.45950 Min.

| Station | Arc | FACE CHORD LENGTHS 8' Lt. | FACE CHORD LENGTHS 8' Rt. | Defl. | T. Defl. |
|---|---|---|---|---|---|
| 2+20.21 | – | – | – | 0°00'00" | 0°00'00" |
| 2+25.00 | 4.79' | 3.99' | 5.59' | 0°54'53" | 0°54'53" |
| 2+50.00 | 25.00' | 20.81' | 29.13' | 4°46'30" | 5°41'23" |
| 2+75.00 | 25.00' | 20.81' | 29.13' | 4°46'29" | 10°27'52" |
| 3+00.38 | 25.38' | 21.13' | 29.58' | 4°50'51" | 15°18'43" |

Curve #2
Curve Data Based on Centerline

Rad. = 218' Delta = 31°04' 13" Tangent = 60.60'
Arc = 118.22' L.C. = 116.77' Def/Ft. = 7.88452 Min.

| Station | Arc | FACE CHORD LENGTHS 8' Lt. | FACE CHORD LENGTHS 8' Rt. | Defl. | T. Defl. |
|---|---|---|---|---|---|
| 3+70.72 | – | – | – | 0°00'00" | 0°00'00" |
| 3+75.00 | 4.28' | 4.77' | 3.79' | 0°33'45" | 0°33'45" |
| 4+00.00 | 25.00' | 27.85' | 22.12' | 3°17'07" | 3°50'52" |
| 4+25.00 | 25.00' | 27.85' | 22.12' | 3°17'06" | 7°07'58" |
| 4+50.00 | 25.00' | 27.85' | 22.12' | 3°17'07" | 10°25'05" |
| 4+75.00 | 25.00' | 27.85' | 22.12' | 3°17'07" | 13°42'12" |
| 4+88.94 | 13.94' | 15.54' | 12.34' | 1°49'55" | 15°32'07" |

RIDGE PORT ADDITION - PHASE III
**SHADOW LAKES**
STA. 0+20.00 TO STA. 4+88.94

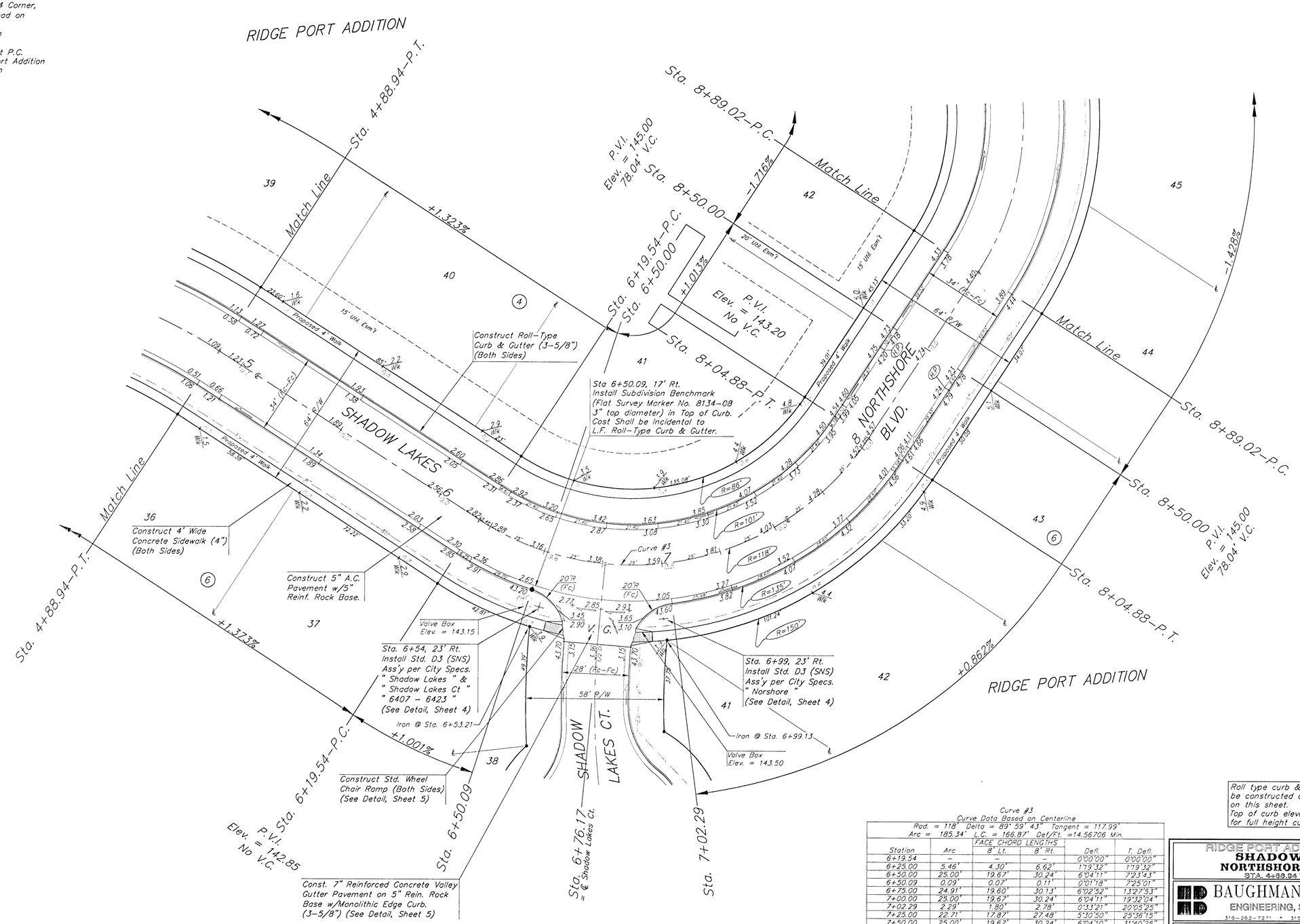
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

| PROJECT NUMBER | | | | SHEET |
|---|---|---|---|---|
| 472-89247 | | | | 6 OF 34 |
| DESIGN BLP/DMV | DRAWN JAK | APPROVED | DATE 3-28-01 | SCALE NOTED |

BENCHMARKS:

City Disc 45' North of 1/4 Corner,
1/2 Mile East of Ridge Road on
29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C.
Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum




SCALE: 1" = 20'
• = Iron

Curve #3
Curve Data Based on Centerline
Rad. = 118' Delta = 89° 59' 43" Tangent = 117.99'
Arc = 185.34' L.C. = 166.87' Def/Ft. =14.56706 Min.

| Station | Arc | FACE CHORD LENGTHS 8' Lt. | 8' Rt. | Defl. | T. Defl. |
|---|---|---|---|---|---|
| 6+19.54 | – | – | – | 0°00'00" | 0°00'00" |
| 6+25.00 | 5.46' | 4.30' | 6.62' | 1°19'32" | 1°19'32" |
| 6+50.00 | 25.00' | 19.67' | 30.24' | 6°04'11" | 7°23'43" |
| 6+50.09 | 0.09' | 0.07' | 0.11' | 0°01'18" | 7°25'01" |
| 6+75.00 | 24.91' | 19.60' | 30.13' | 6°02'52" | 13°27'53" |
| 7+00.00 | 25.00' | 19.67' | 30.24' | 6°04'11" | 19°32'04" |
| 7+02.29 | 2.29' | 1.80' | 2.78' | 0°33'21" | 20°05'25" |
| 7+25.00 | 22.71' | 17.87' | 27.48' | 5°30'50" | 25°36'15" |
| 7+50.00 | 25.00' | 19.67' | 30.24' | 6°04'10" | 31°40'25" |
| 7+75.00 | 25.00' | 19.67' | 30.24' | 6°04'11" | 37°44'36" |
| 8+00.00 | 25.00' | 19.67' | 30.24' | 6°04'10" | 43°48'46" |
| 8+04.88 | 4.88' | 3.85' | 5.91' | 1°11'06" | 44°59'52" |

Roll type curb & gutter to be constructed on the pavement on this sheet.
Top of curb elevation are given for full height curb.

RIDGE PORT ADDITION - PHASE III
**SHADOW LAKES & NORTHSHORE BOULEVARD**
STA. 4+88.94 TO STA. 8+89.02


BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211


| PROJECT NUMBER | SHEET |
|---|---|
| 472-89247 | 7 OF 34 |

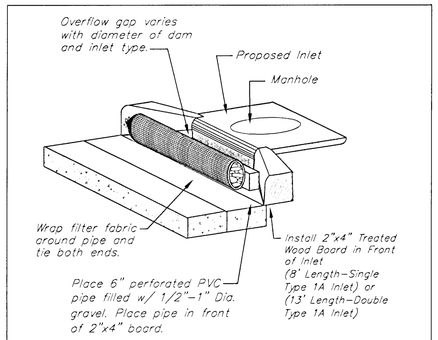
| DESIGN | DRAWN | APPROVED | DATE | SCALE |
|---|---|---|---|---|
| BLP/DMV | JAK | | 3-28-01 | NOTED |

Ridgeport\Ph III\Sh7

BENCHMARKS:

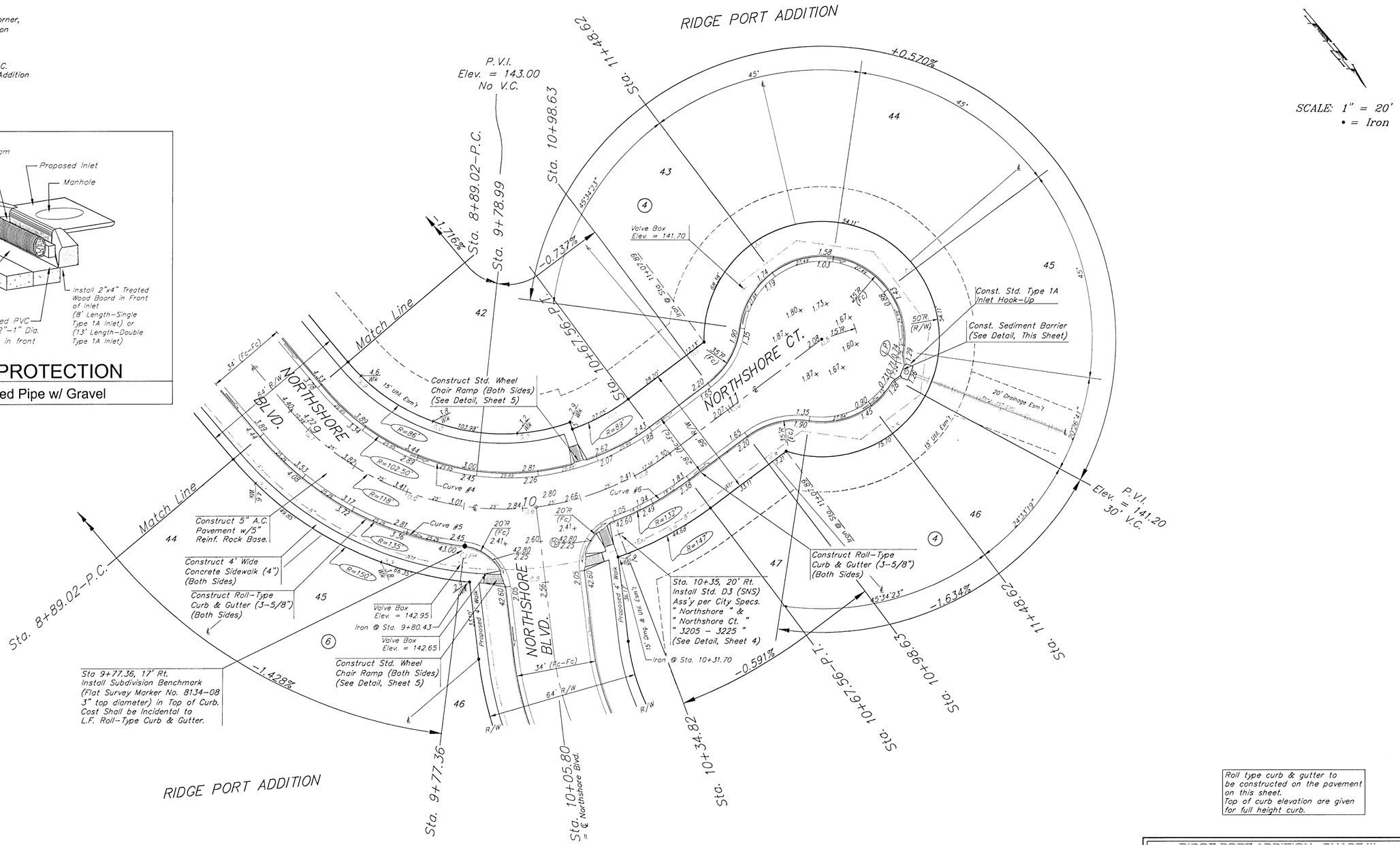
City Disc 45' North of 1/4 Corner, 1/2 Mile East of Ridge Road on 29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C. Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum




INLET PROTECTION

Perforated Pipe w/ Gravel




SCALE: 1" = 20'
• = Iron

Roll type curb & gutter to be constructed on the pavement on this sheet.
Top of curb elevation are given for full height curb.

Curve #4
Curve Data Based on Face of Curb
Rad. = 102.50' Delta = 86° 42' 13" Tangent = 96.77'
Arc = 155.10' L.C. = 140.73' Def/Ft. =16.77052 Min.

| Station | Arc | FACE CHORD LENGTHS 8' Lt. | Defl. | T. Defl. |
|---|---|---|---|---|
| 8+89.02 | – | – | 0°00'00" | 0°00'00" |
| 9+19.16 | 25.85' | 23.77' | 7°13'31" | 7°13'31" |
| 9+49.15 | 25.85' | 23.77' | 7°13'31" | 14°27'02" |
| 9+78.99 | 25.85' | 23.77' | 7°13'31" | 21°40'33" |
| 10+08.65 | 25.85' | 23.77' | 7°13'31" | 28°54'04" |
| 10+38.18 | 25.85' | 23.77' | 7°13'31" | 36°07'35" |
| 10+67.56 | 25.85' | 23.77' | 7°13'32" | 43°21'07" |

Curve #5
Curve Data Based on Face of Curb
Rad. = 135' Delta = 42° 52' 58" Tangent = 53.02'
Arc = 101.04' L.C. = 98.70' Def/Ft. =12.73242 Min.

| Station | Arc | FACE CHORD LENGTHS 8' Rt. | Defl. | T. Defl. |
|---|---|---|---|---|
| 8+89.02 | – | – | 0°00'00" | 0°00'00" |
| 9+11.11 | 25.26' | 23.73' | 5°21'37" | 5°21'37" |
| 9+33.19 | 25.26' | 23.73' | 5°21'38" | 10°43'15" |
| 9+55.28 | 25.26' | 23.73' | 5°21'37" | 16°04'52" |
| 9+77.36 | 25.26' | 23.73' | 5°21'37" | 21°26'29" |

Curve #6
Curve Data Based on Face of Curb
Rad. = 132' Delta = 15° 54'03" Tangent = 18.43'
Arc = 36.64' L.C. = 36.52' Def/Ft. =13.01924 Min.

| Station | Arc | FACE CHORD LENGTHS 8' Rt. | Defl. | T. Defl. |
|---|---|---|---|---|
| 10+34.82 | – | – | 0°00'00" | 0°00'00" |
| 10+51.19 | 18.32' | 19.41' | 3°58'31" | 3°58'31" |
| 10+67.56 | 18.32' | 19.41' | 3°58'31" | 7°57'02" |

RIDGE PORT ADDITION - PHASE III
# NORTHSHORE CT
LOTS 42-47, BLOCK 4

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

| PROJECT NUMBER | | | | | SHEET |
|---|---|---|---|---|---|
| 472-89247 | | | | | 8 OF 34 |
| DESIGN BLP/DMV | DRAWN JAK | APPROVED | DATE 3-28-01 | SCALE NOTED | |

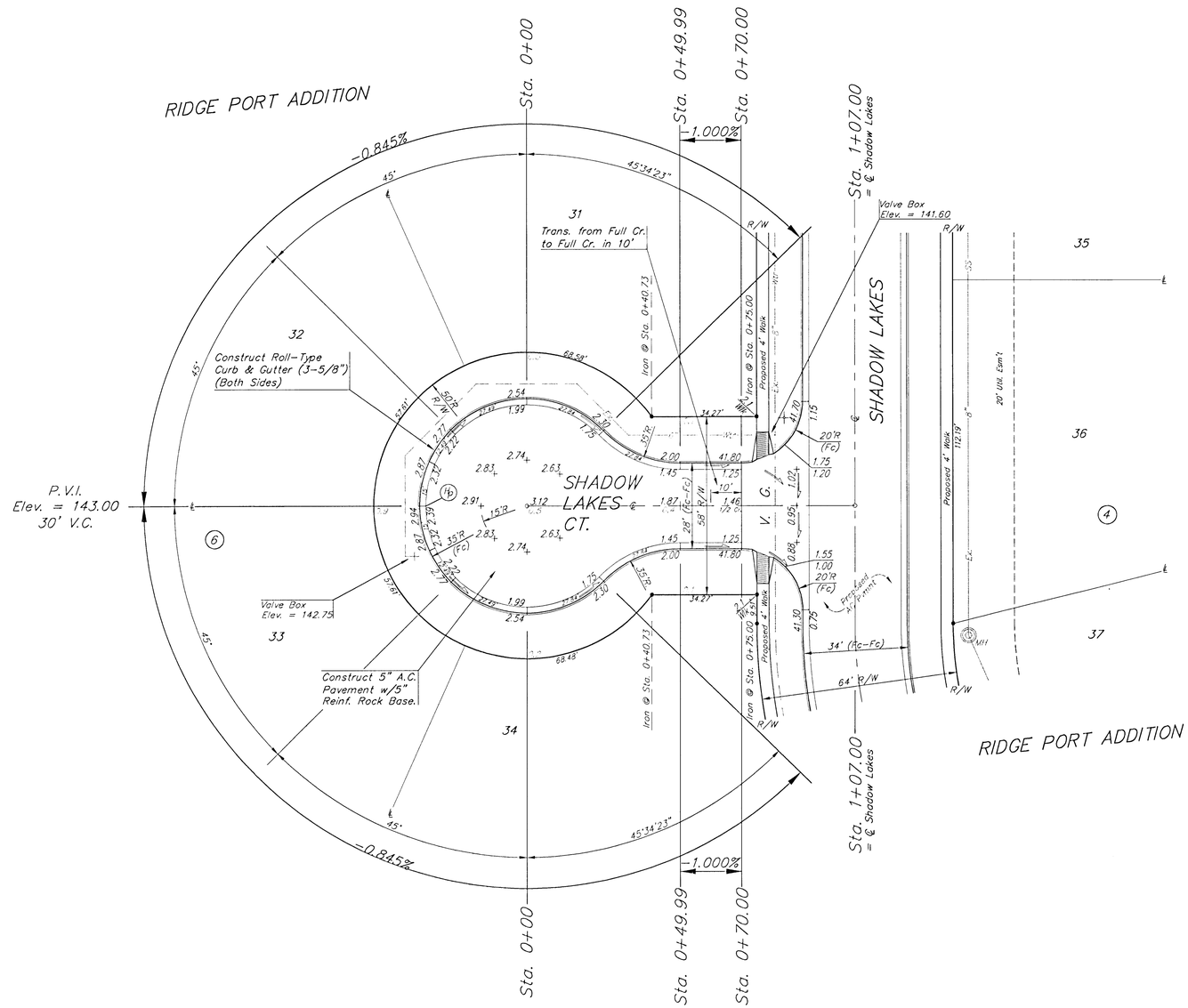
Rdmnort\Ph3\Str3

BENCHMARKS:

City Disc 45' North of 1/4 Corner,
1/2 Mile East of Ridge Road on
29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C.
Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum

SCALE: 1" = 20'
• = Iron




Roll type curb & gutter to be constructed on the pavement on this sheet.
Top of curb elevation are given for full height curb.

RIDGE PORT ADDITION - PHASE III

# SHADOW LAKES CT

LOTS 31-34, BLOCK 8

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

| PROJECT NUMBER | | | | | SHEET |
|---|---|---|---|---|---|
| 472-89247 | | | | | 9 OF 34 |
| DESIGN | DRAWN | APPROVED | DATE | SCALE | |
| BLP/DMV | JAK | | 3-28-01 | NOTED | |

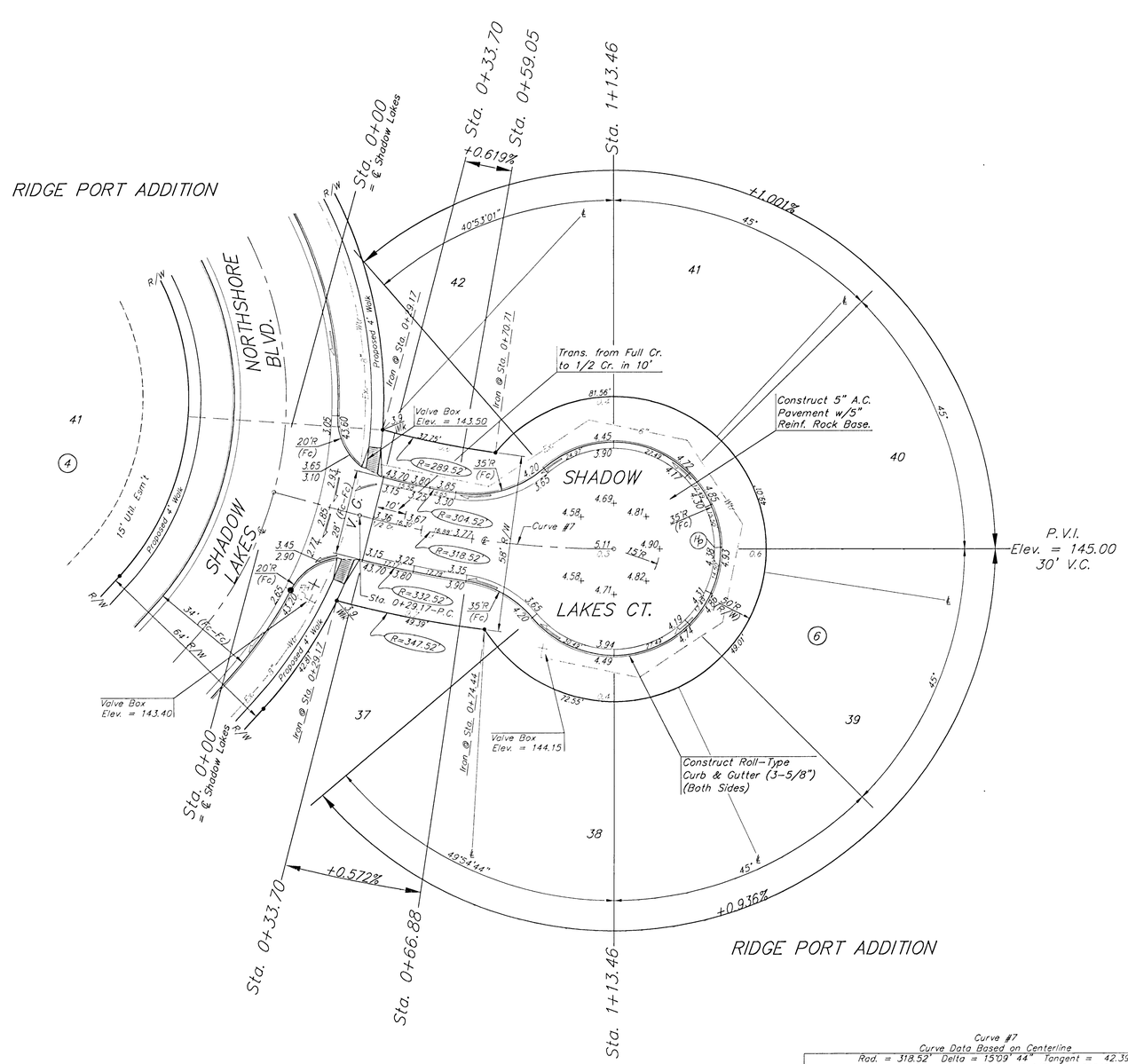
Rdgport\Ph3\Str4

BENCHMARKS:

City Disc 45' North of 1/4 Corner,
1/2 Mile East of Ridge Road on
29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C.
Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum

SCALE: 1" = 20'
• = Iron




Roll type curb & gutter to be constructed on the pavement on this sheet.
Top of curb elevation are given for full height curb.

Curve #7
Curve Data Based on Centerline
Rad. = 318.52' Delta = 15°09'44" Tangent = 42.39'
Arc = 84.29' L.C. = 84.04' Def/Ft. = 5.39645 Min.

| Station | Arc | FACE CHORD LENGTHS B' Lt. | FACE CHORD LENGTHS B' Rt. | Defl. | T. Defl. |
|---|---|---|---|---|---|
| 0+29.17 | – | – | – | 0°00'00" | 0°00'00" |
| 0+33.70 | 4.53' | 4.32' | 4.84' | 0°24'27" | 0°24'27" |
| 0+50.00 | 16.30' | 15.17' | 17.42' | 1°27'58" | 1°52'24" |
| 0+59.05 | 9.05' | 8.42' | 9.67' | 0°48'51" | 2°41'15" |
| 0+66.88 | 7.83' | 7.29' | 8.37' | 0°42'15" | 3°23'30" |
| 0+75.00 | 8.12' | 7.56' | 8.68' | 0°43'49" | 4°07'19" |
| 1+00.00 | 25.00' | 23.27' | 26.72' | 2°14'55" | 6°22'14" |
| 1+13.46 | 13.46' | 12.53' | 14.39' | 1°12'38" | 7°34'52" |

RIDGE PORT ADDITION - PHASE III
# SHADOW LAKES CT
LOTS 37-41, BLOCK 6

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 313 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER 472-88247

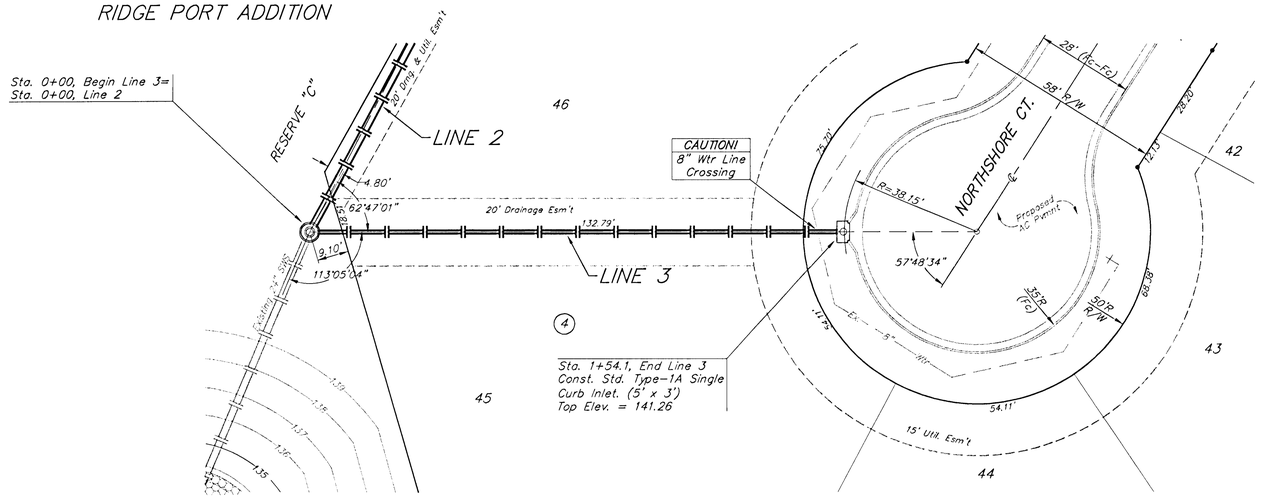
| DESIGN | DRAWN | APPROVED | DATE | SCALE | SHEET |
|---|---|---|---|---|---|
| BLP/DMV | JAK | | 3-28-01 | NOTED | 10 of 34 |

Reference Urn 15 Sur-5

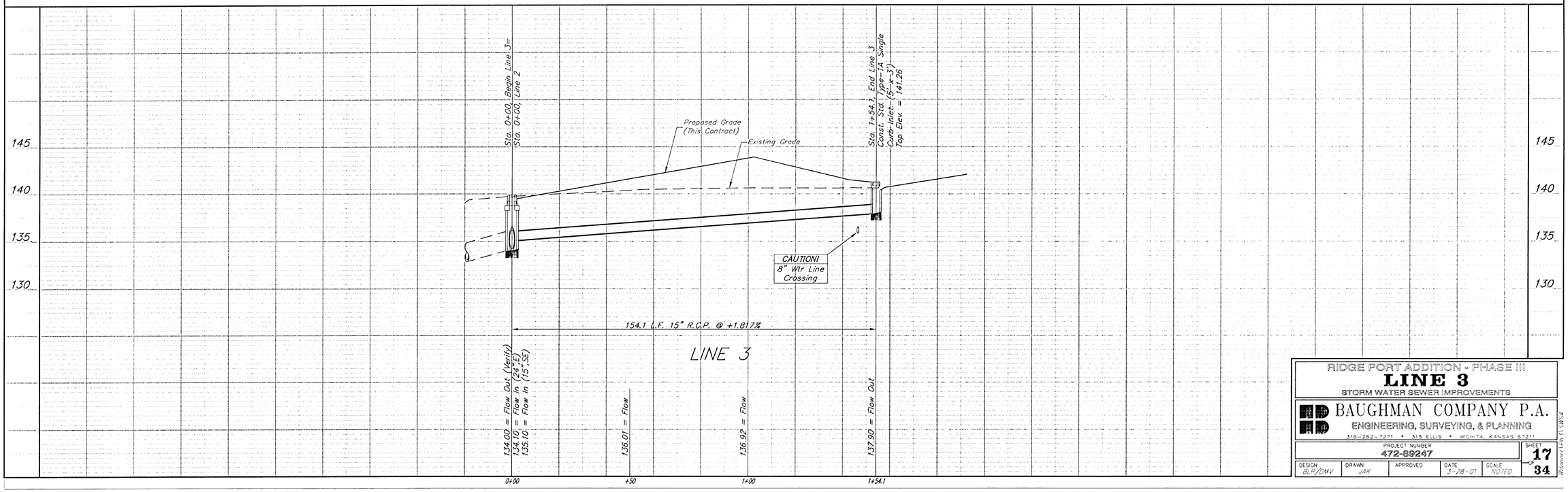
BENCHMARKS:

City Disc 45' North of 1/4 Corner,
1/2 Mile East of Ridge Road on
29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C.
Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum




SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON




RIDGE PORT ADDITION - PHASE III

**LINE 3**

STORM WATER SEWER IMPROVEMENTS

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

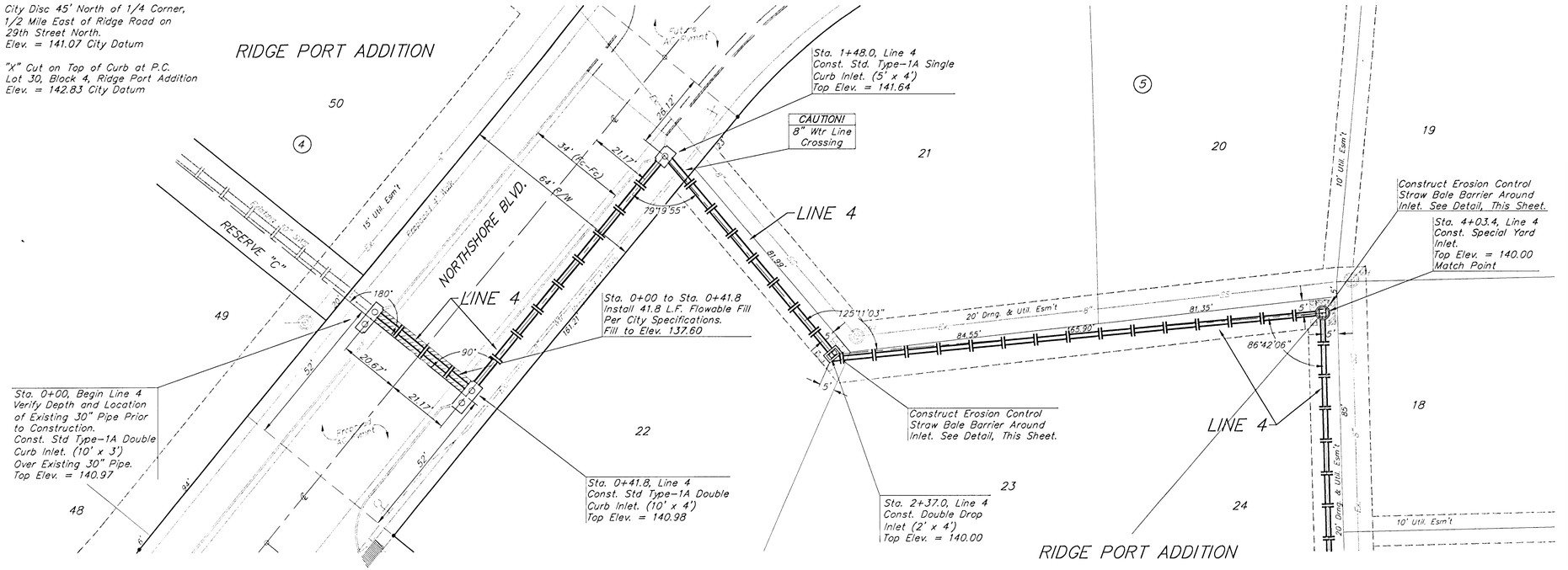
| PROJECT NUMBER | | | | | SHEET |
|---|---|---|---|---|---|
| 472-89247 | | | | | 17 OF 34 |
| DESIGN BLP/DMV | DRAWN JAK | APPROVED | DATE 3-28-01 | SCALE NOTED | |

Rdmont\Ph 3\SWS4

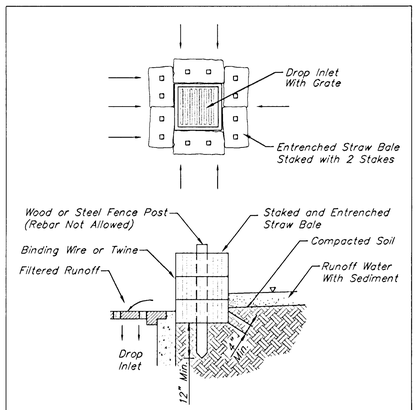
BENCHMARKS:

City Disc 45' North of 1/4 Corner, 1/2 Mile East of Ridge Road on 29th Street North. Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C. Lot 30, Block 4, Ridge Port Addition Elev. = 142.83 City Datum

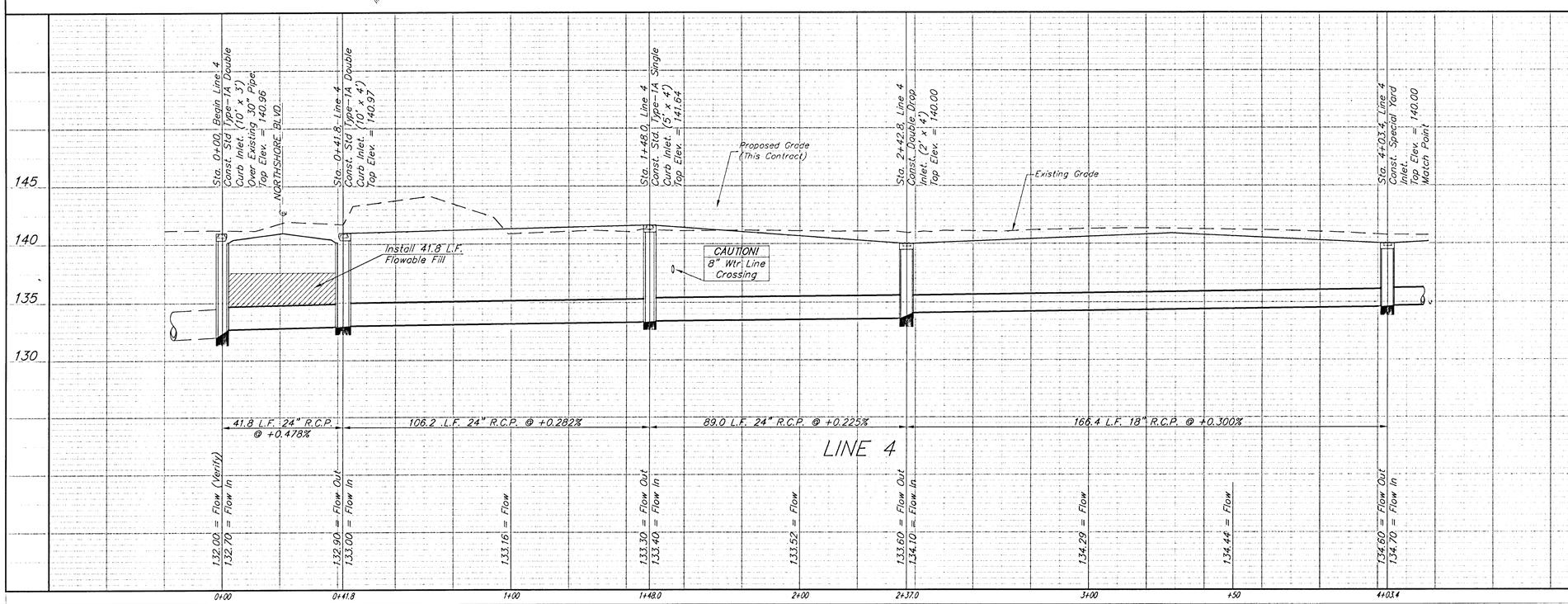



SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON




Straw Bale Barrier Detail

Note: Straw Bale Barriers to be Paid per Each as Inlet Sediment Barriers.




RIDGE PORT ADDITION - PHASE III

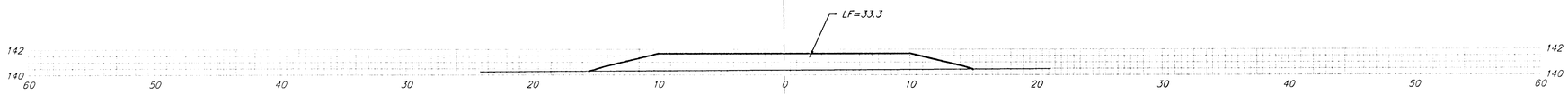
# LINE 4

STORM WATER SEWER IMPROVEMENTS

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER 472-89247

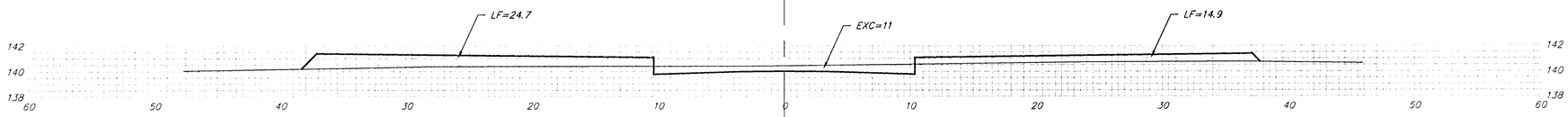
| DESIGN | DRAWN | APPROVED | DATE | SCALE | SHEET |
|---|---|---|---|---|---|
| BLP/DMV | JAK | | 3-28-01 | NOTED | 18 OF 34 |




11+98.62

15'

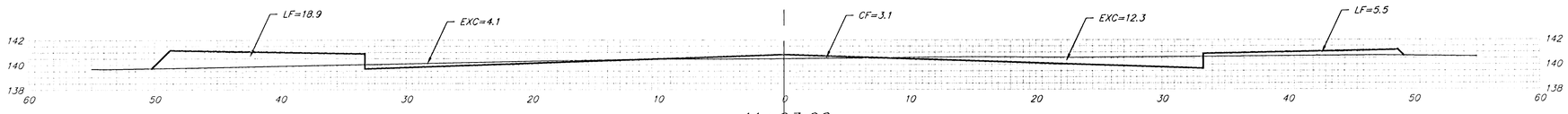
EXC = 3.0
LF = 20.2
CF = 0.0




11+83.62

20'

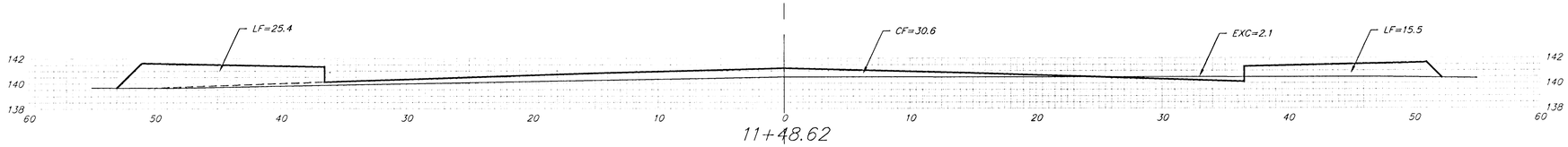
EXC = 10.2
LF = 23.7
CF = 1.1




11+63.62

15'

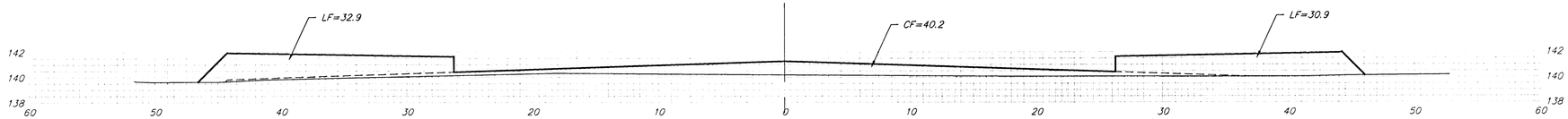
EXC = 5.1
LF = 18.1
CF = 9.4




11+48.62

25'

EXC = 1.0
LF = 48.5
CF = 32.8




11+23.62

24.99'

EXC = 0.0
LF = 53.3
CF = 37.8

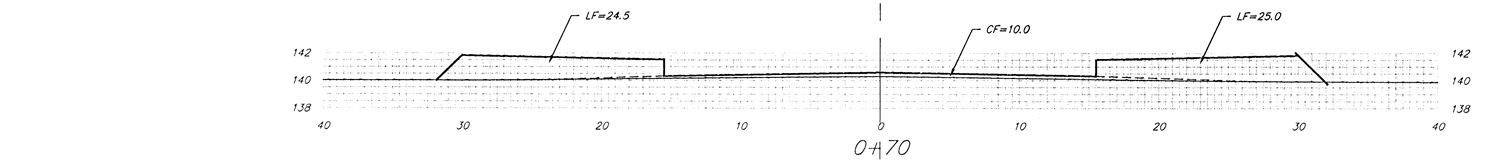
Sheet Totals
Excavation = 19.3 C.Y.
Loose Fill = 163.8 C.Y.
Compacted Fill = 81.1 C.Y.

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER
472-86247

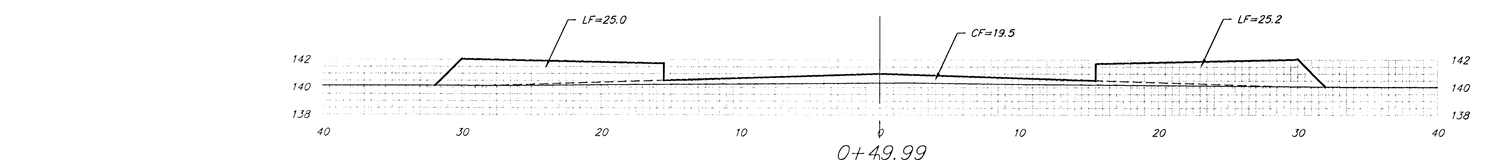
REV.

SHEET
27
OF
34



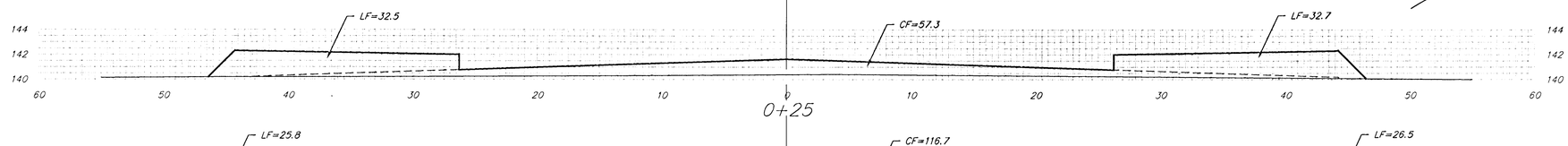

0+70

20.01'
EXC = 0.0
LF = 36.9
CF = 10.9



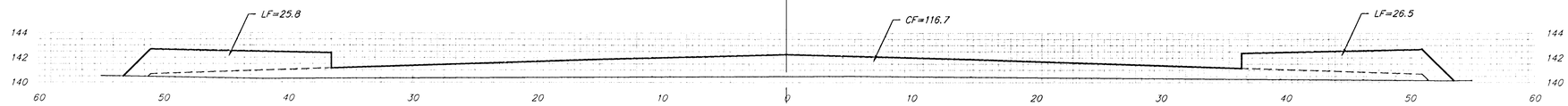

0+49.99

24.99'
EXC = 0.0
LF = 53.4
CF = 35.6



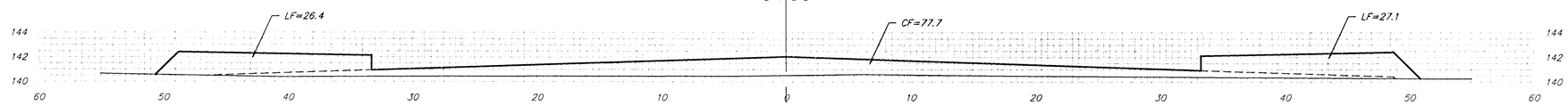

0+25

25.00'
EXC = 0.0
LF = 54.4
CF = 80.6

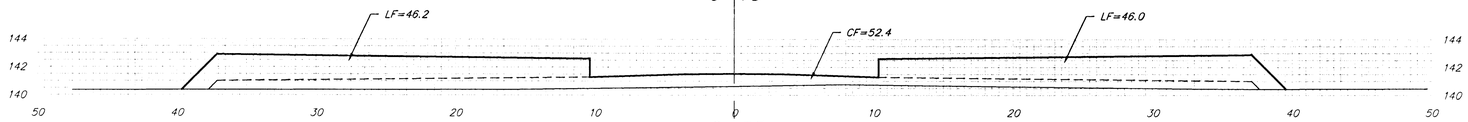



0+00

15.00'
EXC = 0.0
LF = 29.4
CF = 54.0

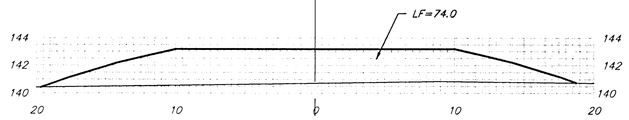



0-15




20.00'
EXC = 0.0
LF = 54.0
CF = 48.2

0-35




15.00'
EXC = 0.0
LF = 46.2
CF = 14.6

0-50

<u>Sheet Totals</u>
Excavation = 0.0 C.Y.
Loose Fill = 274.3 C.Y.
Compacted Fill = 243.9 C.Y.

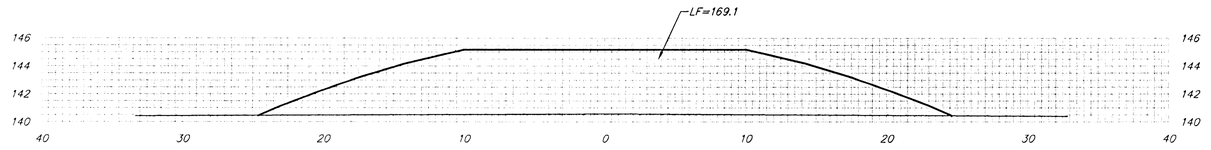
# SHADOW LAKES CT.
# LOTS 31-34, BLOCK 6

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

REV.

PROJECT NUMBER
472-89247

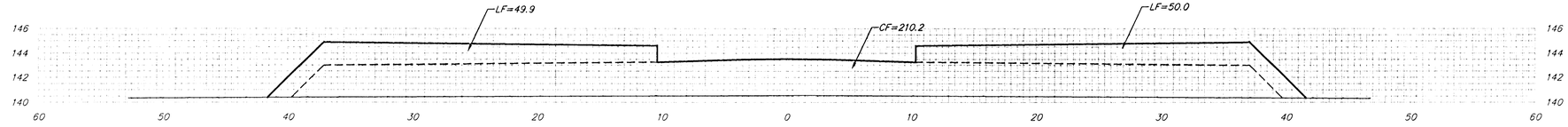
SHEET
28
OF
34




1+63.46

15.00'

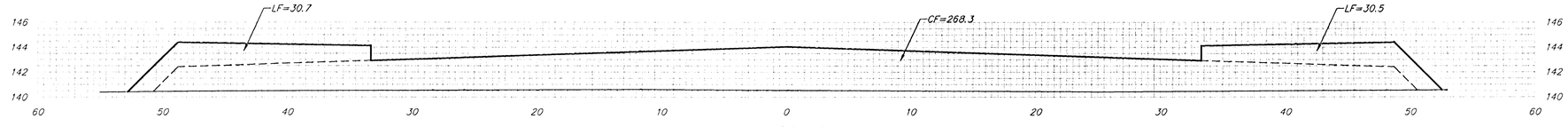
EXC = 0.0
LF = 74.7
CF = 58.4




1+48.46

20.00'

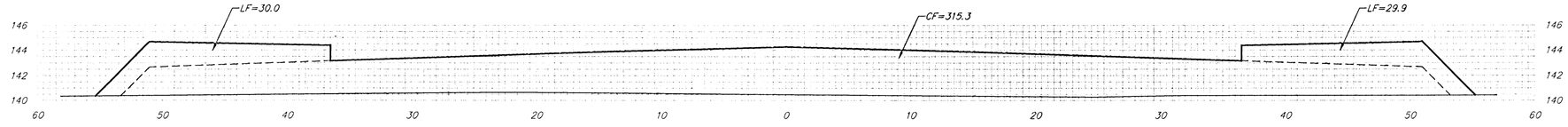
EXC = 0.0
LF = 59.7
CF = 177.2




1+28.46

15.00'

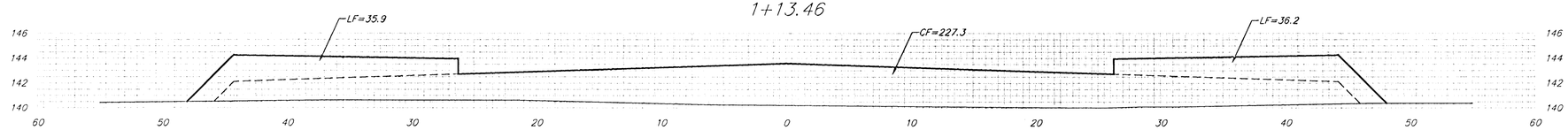
EXC = 0.0
LF = 33.7
CF = 162.1




1+13.46

24.96'

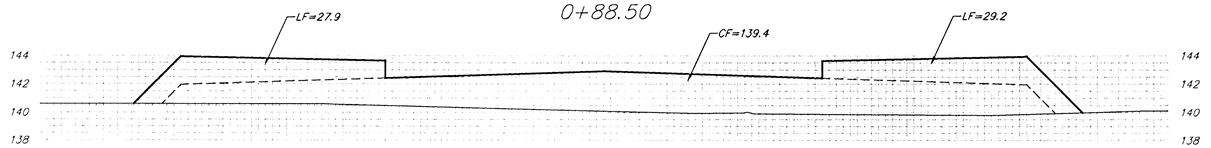
EXC = 0.0
LF = 61.1
CF = 250.8




0+88.50

21.62'

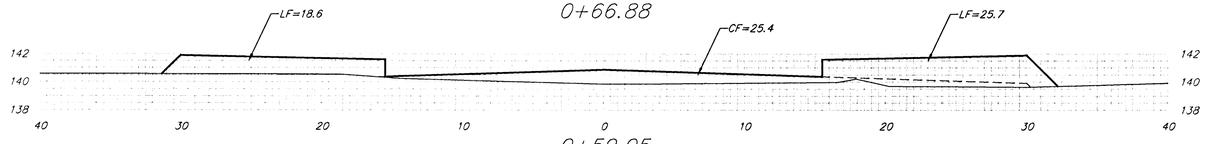
EXC = 0.0
LF = 51.8
CF = 146.8




0+66.88

7.83'

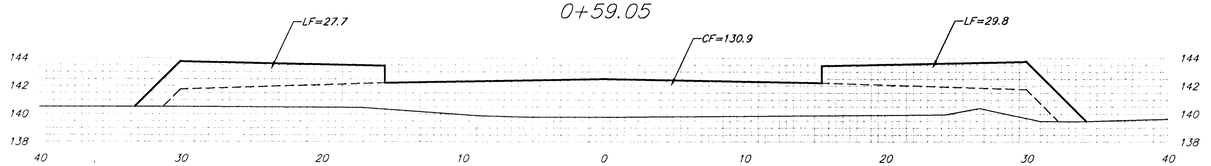
EXC = 0.0
LF = 14.7
CF = 23.9




0+59.05

25.35'

EXC = 0.0
LF = 47.8
CF = 73.2




0+33.70

Sheet Totals
Excavation = 0.0 C.Y.
Loose Fill = 343.3 C.Y.
Compacted Fill = 892.6 C.Y.

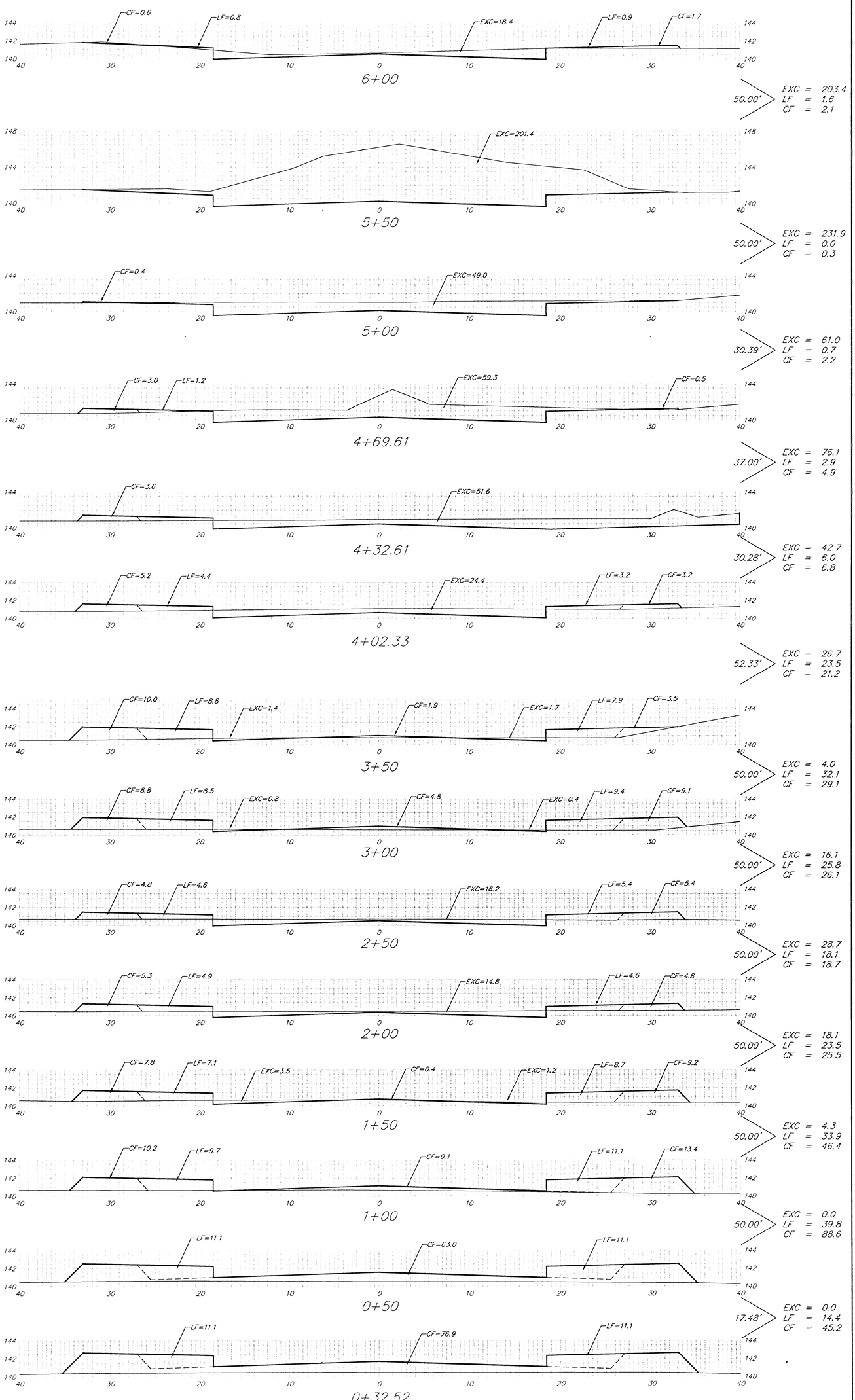
# SHADOW LAKES CT.
# LOTS 37-41, BLOCK 6

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER
472-89247

REV.

SHEET
29
OF
34




Sheet Totals

| | | |
|---|---|---|
| Excavation = | 727.8 | C.Y. |
| Loose Fill = | 227.1 | C.Y. |
| Compacted Fill = | 321.2 | C.Y. |


BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211


PROJECT NUMBER
472-99247

SHEET
30
34

REV.

*Sheet Totals*

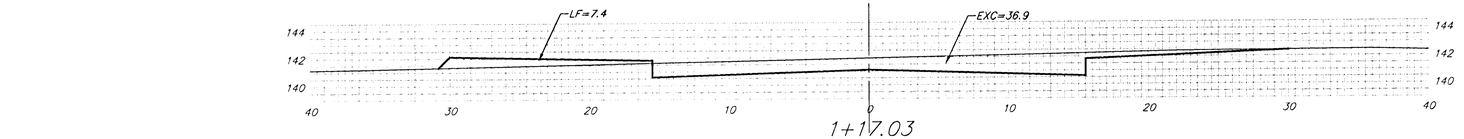
| | | |
|---|---|---|
| *Excavation =* | *18.1* | *C.Y.* |
| *Loose Fill =* | *167.6* | *C.Y.* |
| *Compacted Fill =* | *487.9* | *C.Y.* |

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

REV.

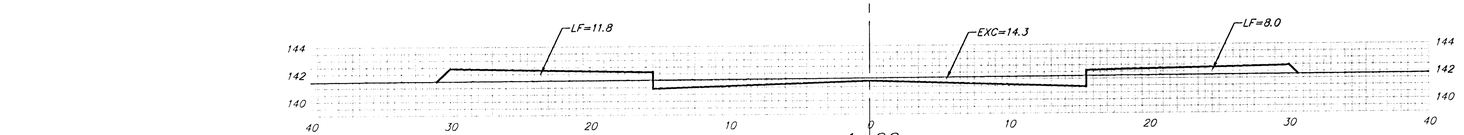
PROJECT NUMBER
472-89247

SHEET
31
OF
34



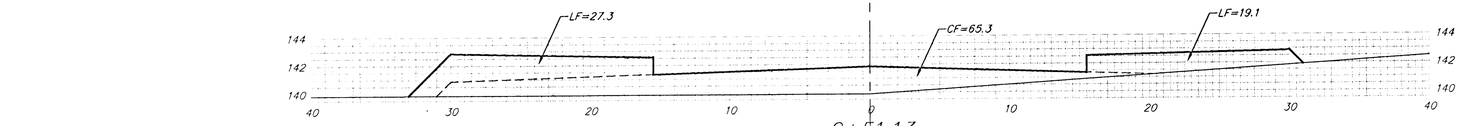

1+17.03

17.03' EXC = 16.1 LF = 8.6 CF = 0.0



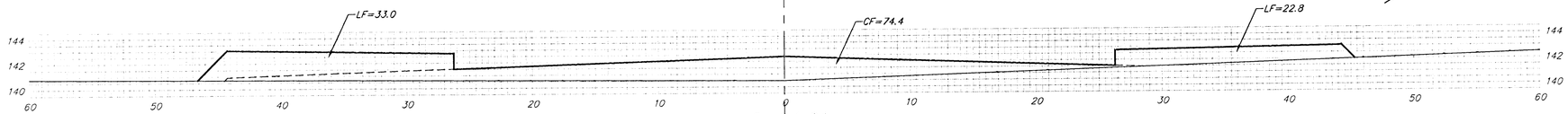

1+00

48.87' EXC = 12.9 LF = 59.9 CF = 59.1



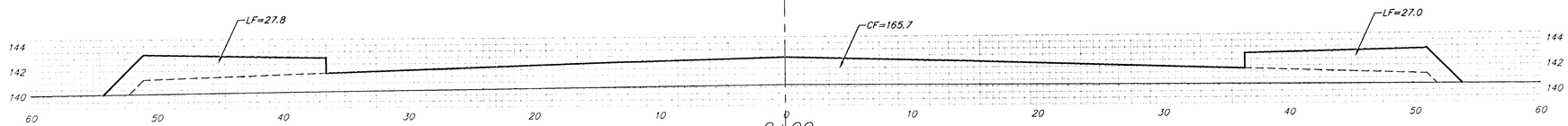

0+51.13

26.22' EXC = 0.0 LF = 49.6 CF = 67.8



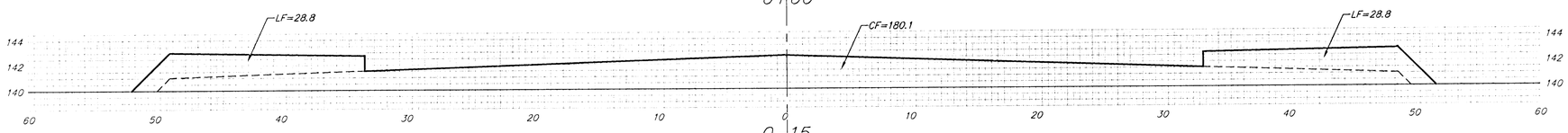

0+24.91

24.91' EXC = 0.0 LF = 51.0 CF = 110.8



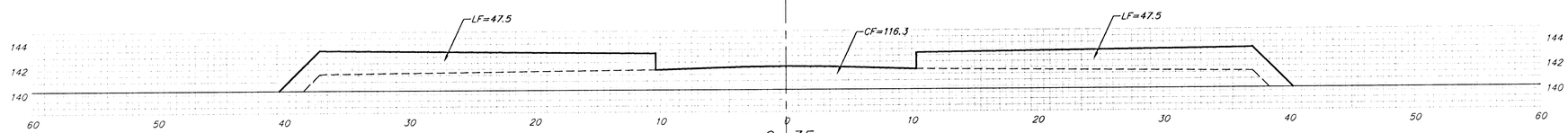

0+00

15.00' EXC = 0.0 LF = 31.2 CF = 96.1



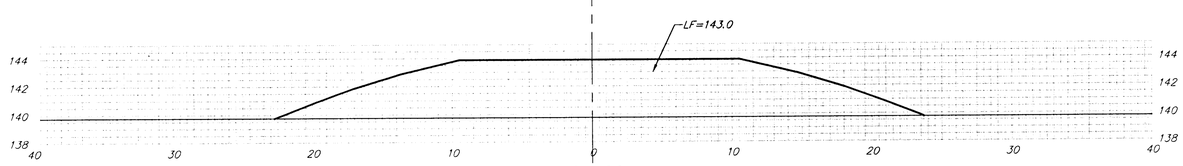

0+15

20.00' EXC = 0.0 LF = 56.5 CF = 109.8




0+35

15.00' EXC = 0.0 LF = 66.1 CF = 32.2




0+50

# NORTHSHORE CT.
# LOTS 50-54, BLOCK 4

Sheet Totals
Excavation = 29.0 C.Y.
Loose Fill = 273.3 C.Y.
Compacted Fill = 475.8 C.Y.

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

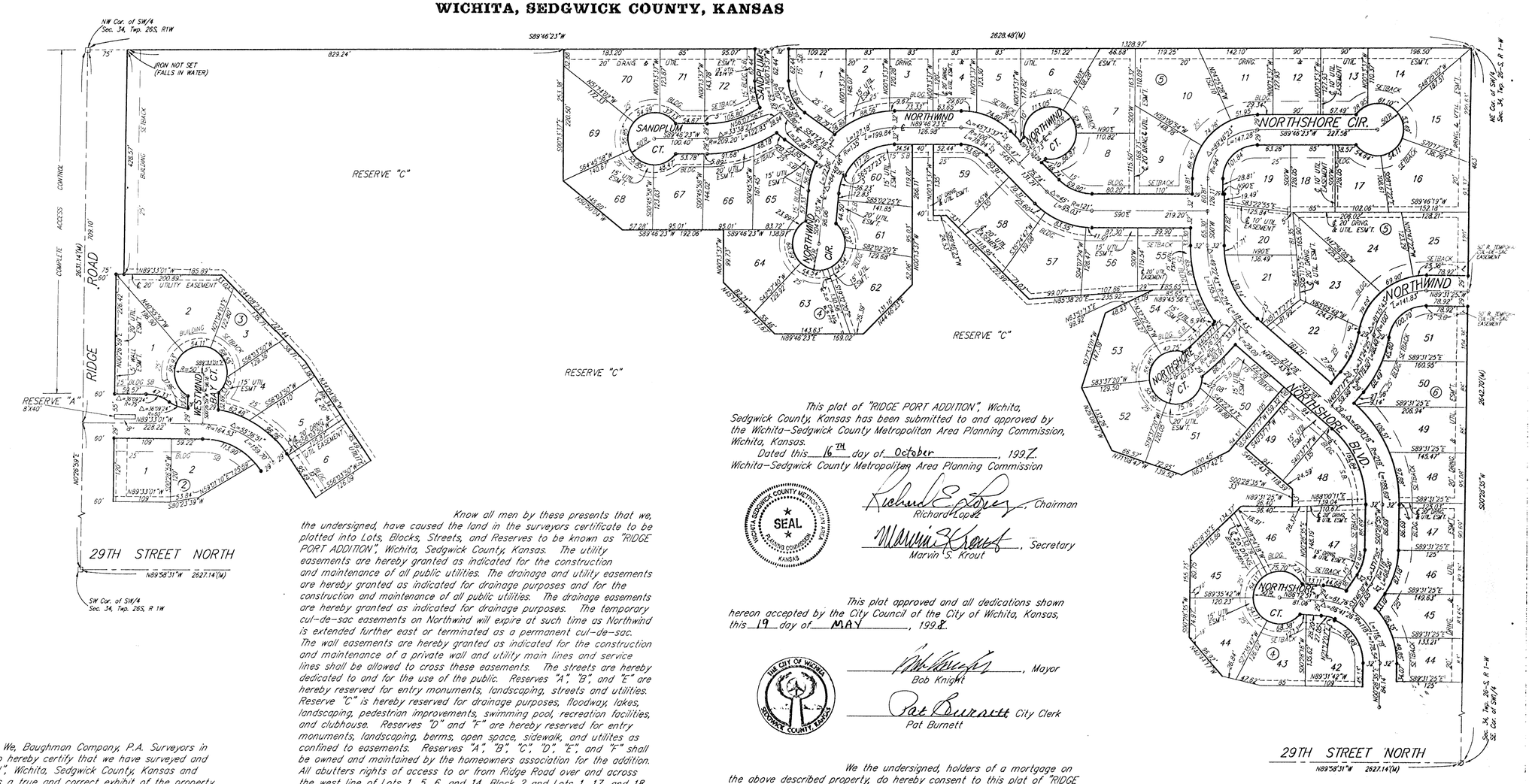
REV.

PROJECT NUMBER
472-89247

SHEET 32 OF 34

# RIDGE PORT ADDITION

## WICHITA, SEDGWICK COUNTY, KANSAS




(M) = Measured

□ = Railroad Spike
Ø = Found 3/4" Iron
○ = Found 3/8" Iron
• = Set #4 Baughman Rebar

NOTE:
PERIMETER BOUNDARY CORNERS HAVE BEEN SET. INTERNAL CONTROL POINTS ARE TO BE SET UPON COMPLETION OF SITE FILL WORK.

| MINIMUM BUILDING PAD ELEVATION FOR LOWEST OPENING TO THE STRUCTURES | | |
|---|---|---|
| BLOCK | LOT(S) | ELEVATION (PER CITY DATUM) |
| 1 | 1 | 1139.6 |
| 3 | 1–16 | 1139.6 |
| 4 | 3–33, 44–46, 48–54, 66–70 | 1139.6 |

NOTE:
NO BUILDING PERMITS ARE TO BE ISSUED FOR ANY LOTS WITHIN "RIDGE PORT ADDITION" UNLESS THE LOWEST FLOOR CAN BE CONSTRUCTED AT OR ABOVE THE BASE FLOOD ELEVATION OF UNLESS THE CITY OF WICHITA HAS RECEIVED A LETTER OF MAP REVISION FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY WHICH WILL THEN ALLOW BUILDINGS TO BE CONSTRUCTED AT THE LOWEST OPENING AS SPECIFIED ABOVE.

BENCHMARK:
CITY DISC – SW COR. RIDGE RD. & 29TH ST. NO., 80.8' S. & 63.1' W. OF ℄ BOTH.
ELEV. = 1139.15 CITY DATUM (1326.55 M.S.L.)

CITY DISC – SW HUB GUARD ON R.C.B.C., 1/2 MI. N. OF 29TH ST. NO. & RIDGE RD.
ELEV. = 1144.22 CITY DATUM (1331.62 M.S.L.)

State of Kansas) SS
Sedgwick County)

We, Baughman Company, P.A. Surveyors in aforesaid County and State do hereby certify that we have surveyed and platted "RIDGE PORT ADDITION", Wichita, Sedgwick County, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as follows: The SW1/4 of Sec. 34, Twp. 26–S, R–1–W of the 6th P.M., Sedgwick County, Kansas, EXCEPT the Missouri–Pacific Railroad right–of–way, and EXCEPT that part lying south and west of said railroad right–of–way, and EXCEPT the west 60 feet and the south 50 feet thereof dedicated for road.

Existing public easements and dedications being vacated by virtue of K.S.A. 12–512(b).

Baughman Company, P.A.

Michael G. Conrey 1-8-97 1-15-98 Surveyor
Michael G. Conrey

MICHAEL G. CONREY REGISTERED 1-8-97 KANSAS LAND SURVEYOR

Know all men by these presents that we, the undersigned, have caused the land in the surveyors certificate to be platted into Lots, Blocks, Streets, and Reserves to be known as "RIDGE PORT ADDITION", Wichita, Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The drainage and utility easements are hereby granted as indicated for drainage purposes and for the construction and maintenance of all public utilities. The drainage easements are hereby granted as indicated for drainage purposes. The temporary cul–de–sac easements on Northwind will expire at such time as Northwind is extended further east or terminated as a permanent cul–de–sac. The wall easements are hereby granted as indicated for the construction and maintenance of a private wall and utility main lines and service lines shall be allowed to cross these easements. The streets are hereby dedicated to and for the use of the public. Reserves "A", "B", and "E" are hereby reserved for entry monuments, landscoping, streets and utilities. Reserve "C" is hereby reserved for drainage purposes, floodway, lakes, landscaping, pedestrian improvements, swimming pool, recreation facilities, and clubhouse. Reserves "D" and "F" are hereby reserved for entry monuments, landscoping, berms, open space, sidewalk, and utilites as confined to easements. Reserves "A", "B", "C", "D", "E", and "F" shall be owned and maintained by the homeowners association for the addition. All abutters rights of access to or from Ridge Road over and across the west line of Lots 1, 5, 6, and 14, Block 2 and Lots 1, 17, and 18, Block 3, and Reserve "C" are hereby granted to the City of Wichita, Kansas. All abutters rights of access to or from 29th Street North over and across the south line of Reserves "C", "D" and "F", and Lots 1, 2, and 3, Block 4, and Lots 1, 2, 3, and 4, Block 6 are hereby granted to the City of Wichita, Kansas. All abutters rights of access to or from Ridge Road over and across the west line of Lot 1, Block 1 are hereby granted to the City of Wichita, Kansas provided, however, that said Lot 1, Block 1, shall have access to Ridge Road at one location over all except the south 150 feet as measured from the intersection of the centerline of the Missouri–Pacific Railroad right–of–way with the east line of the 40 foot road right–of–way of Ridge Road, all as shall be determined by the City Engineer of the City of Wichita, Kansas. All abutters rights of access to or from 29th Street North over and across the south line of Lot 1, Block 1, are hereby granted to the City of Wichita, Kansas provided, however, that said Lot 1, Block 1 shall have access to 29th Street North at two locations over all except the west 150 feet as measured from the intersection of the centerline of the Missouri–Pacific Railroad right–of–way with the north line of the 30 foot road right–of–way of 29th Street North, all as shall be determined by the City Engineer of the City of Wichita, Kansas. The Minimum Building Pad Elevations for the lowest opening to the structures shall be as indicated on the face of the plat.

RRGNL, L.L.C.

Jay W. Russell, Member

This plat of "RIDGE PORT ADDITION", Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita–Sedgwick County Metropoliton Area Planning Commission, Wichita, Kansas.

Dated this 16TH day of October, 1997.

Wichita–Sedgwick County Metropolitan Area Planning Commission

SEAL

Richard E. Lopez, Chairman
Richard Lopez

Marvin S. Krout, Secretary
Marvin S. Krout

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this 19 day of MAY, 1998.

THE CITY OF WICHITA SEDGWICK COUNTY, KANSAS

Bob Knight, Mayor

Pat Burnett, City Clerk
Pat Burnett

We the undersigned, holders of a mortgage on the above described property, do hereby consent to this plat of "RIDGE PORT ADDITION", Wichita, Sedgwick County, Kansas.

The First National Bank

Chris A. Anderson, Branch President
Chris A. Anderson

State of Kansas) SS
Sedgwick County)

The foregoing instrument acknowledged before me, this 20TH day of MARCH, 1998, by Chris A. Anderson, Branch President of The First National Bank, on behalf of the bank.

Judith M. Terhune, Notary Public
JUDITH M. TERHUNE

My App't. Exp. 11-7-2001

JUDITH M. TERHUNE Notary Public - State of Kansas My Appt Expires 11-7-2001

State of Kansas) SS
Sedgwick County)

The foregoing instrument acknowledged before me, this 20TH day of JANUARY, 1998, by Jay W. Russell, Member of RRGNL, L.L.C., on behalf of the company.

Judith M. Terhune, Notary Public
JUDITH M. TERHUNE

My App't Exp. 11-7-2001

JUDITH M. TERHUNE Notary Public - State of Kansas My Appt Expires 11-7-2001

Entered on transfer record this 8TH day of June, 1998.

James Afford, County Clerk

COUNTY CLERK SEDGWICK COUNTY KANSAS

State of Kansas) SS
Sedgwick County)

This is to certify that this plat has been filed for record in the office of the Register of Deeds, this 8TH day of June, 1998, at 3:30 o'clock P.M. and is duly recorded.

Bill Maek, Register of Deeds

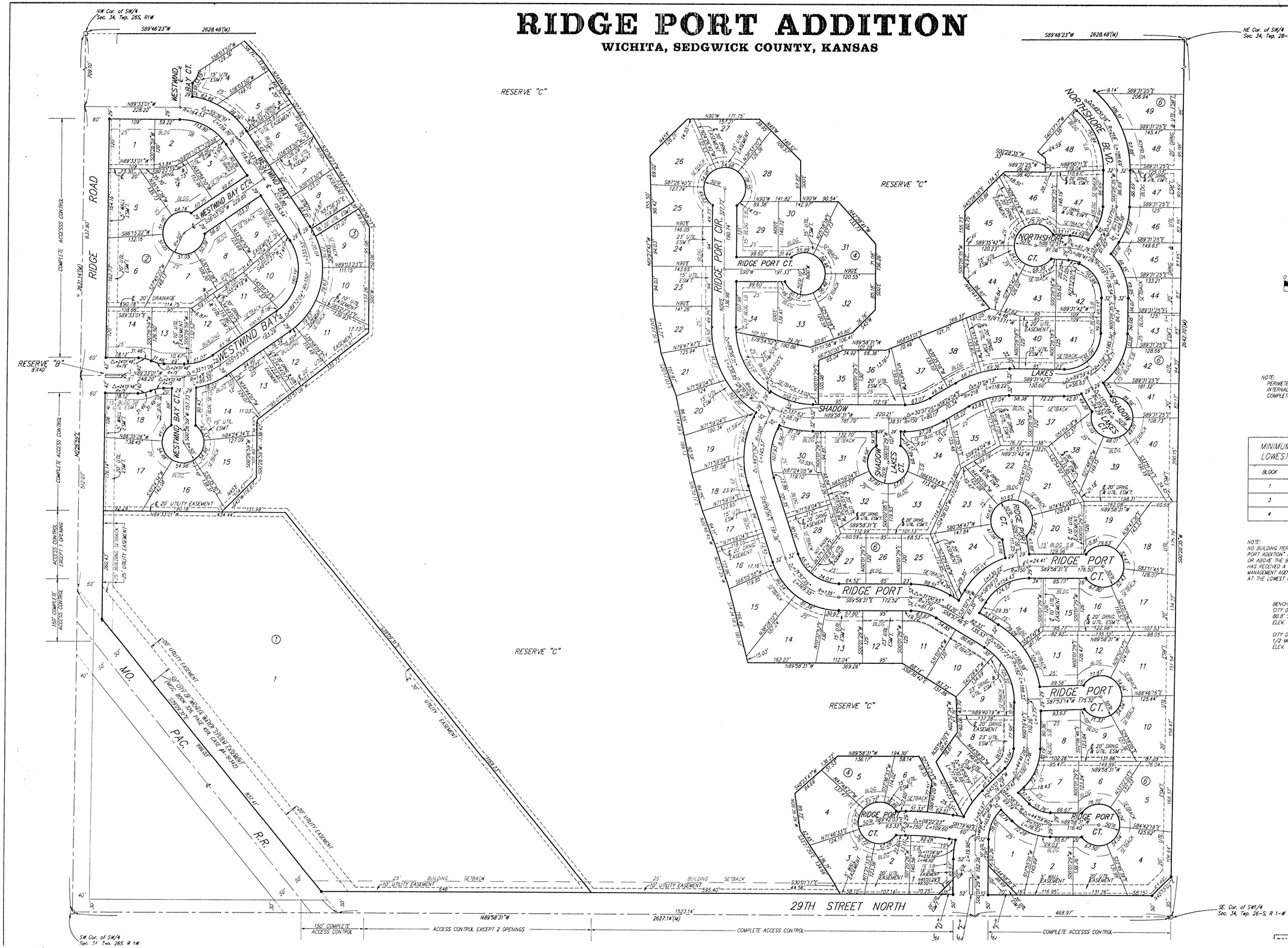
Linda Kizzire, Deputy
Linda Kizzire

1697441

REGISTER OF DEEDS SEDGWICK COUNTY KANSAS

# RIDGE PORT ADDITION

## WICHITA, SEDGWICK COUNTY, KANSAS




(M) = Measured

□ = Railroad Spike
Ø = Found 3/4" Iron
○ = Found 3/8" Iron
• = Set #4 Baughman Rebar

NOTE:
PERIMETER BOUNDARY CORNERS HAVE BEEN SET. INTERNAL CONTROL POINTS ARE TO BE SET UPON COMPLETION OF SITE FILL WORK.

MINIMUM BUILDING PAD ELEVATION FOR LOWEST OPENING TO THE STRUCTURES

| BLOCK | LOT(S) | ELEVATION (PER CITY DATUM) |
|---|---|---|
| 1 | 1 | 139.6 |
| 3 | 1-16 | 139.6 |
| 4 | 3-39, 44-46, 48-64, 66-70 | 139.6 |

NOTE:
NO BUILDING PERMITS ARE TO BE ISSUED FOR ANY LOTS WITHIN "RIDGE PORT ADDITION" UNLESS THE LOWEST FLOOR CAN BE CONSTRUCTED AT OR ABOVE THE BASE FLOOD ELEVATION OF UNLESS THE CITY OF WICHITA HAS RECEIVED A LETTER OF MAP REVISION FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY WHICH WILL THEN ALLOW BUILDINGS TO BE CONSTRUCTED AT THE LOWEST OPENING AS SPECIFIED ABOVE.

BENCHMARK:
CITY DISC - SW COR. RIDGE RD. & 29TH ST. NO., 80.8' S. & 63.7' W. OF ℄ BOTH.
ELEV. = 139.15 CITY DATUM (1326.55 M.S.L.)

CITY DISC - SW HUB GUARD ON R.C.B.C., 1/2 MI. N. OF 29TH ST. NO. & RIDGE RD.
ELEV. = 144.22 CITY DATUM (1331.62 M.S.L.)

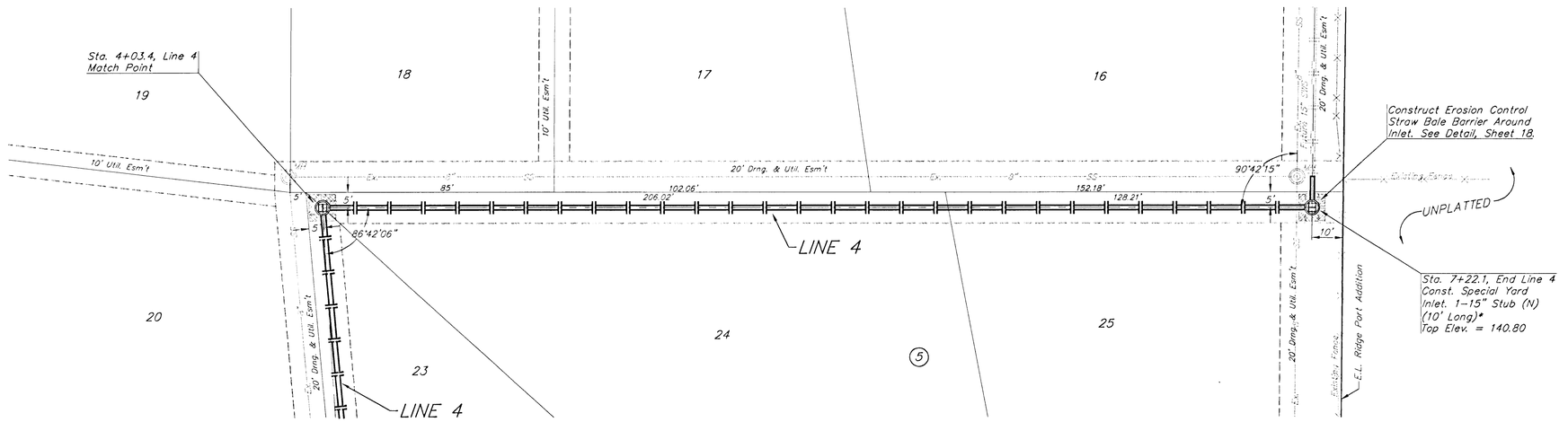
14-09-05-01

BENCHMARKS:

City Disc 45' North of 1/4 Corner,
1/2 Mile East of Ridge Road on
29th Street North.
Elev. = 141.07 City Datum

"X" Cut on Top of Curb at P.C.
Lot 30, Block 4, Ridge Port Addition
Elev. = 142.83 City Datum

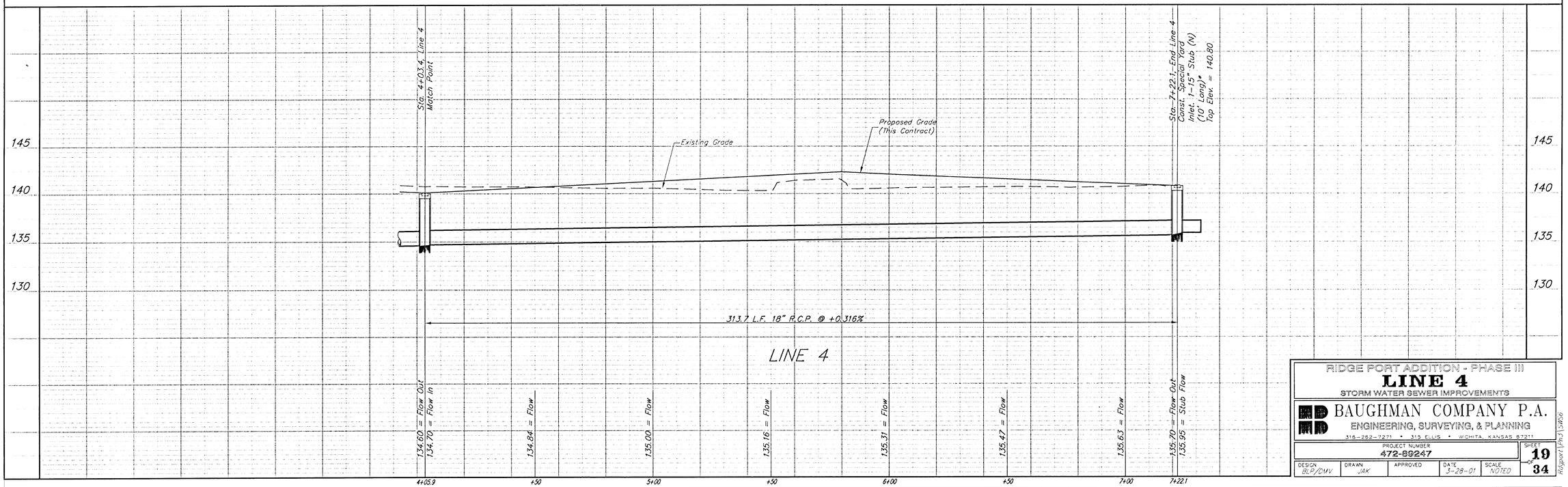
RIDGE PORT ADDITION




SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON

* 10' Long Stub to be
Paid as 1-15" Stub

RIDGE PORT ADDITION




RIDGE PORT ADDITION - PHASE III

**LINE 4**

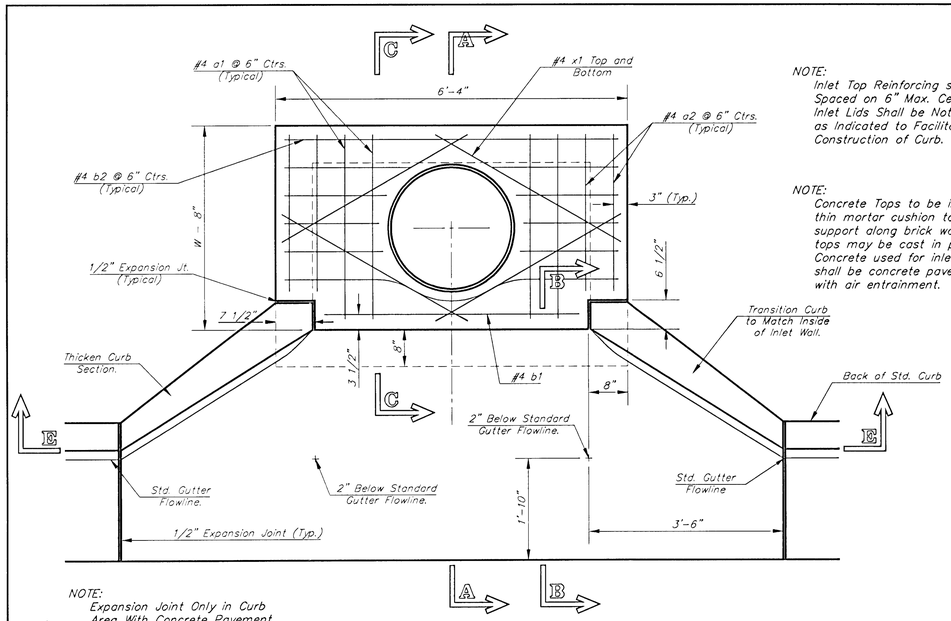
STORM WATER SEWER IMPROVEMENTS


BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 313 E.LUS. • WICHITA, KANSAS 67211


| PROJECT NUMBER | SHEET |
|---|---|
| 472-89247 | 19 OF 34 |

| DESIGN | DRAWN | APPROVED | DATE | SCALE |
|---|---|---|---|---|
| BLP/DMV | JAK | | 3-28-01 | NOTED |

Ridgport\Ph3\Wk6

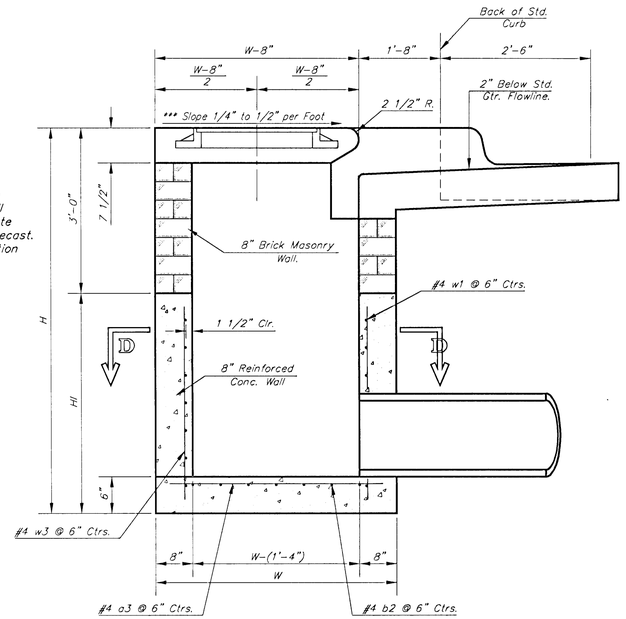



NOTE:
Expansion Joint Only in Curb Area With Concrete Pavement.

## PLAN

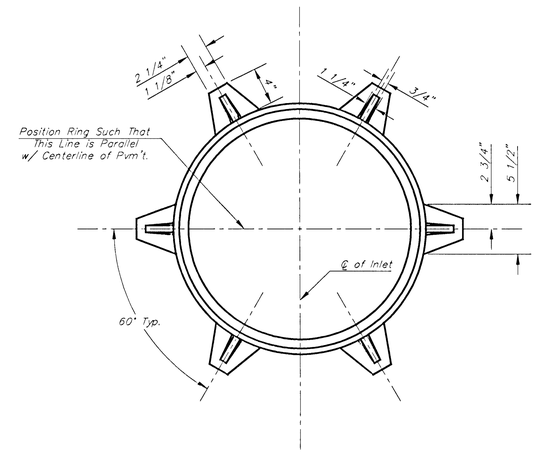
NOTE:
Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids Shall be Notched Out as Indicated to Facilitate Construction of Curb.

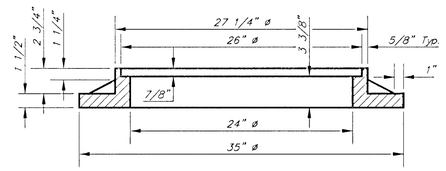
NOTE:
Concrete Tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix with air entrainment.




## SECTION A–A

***NOTE: Slope of Inlet tops to Match Sidewalk or Parking Slopes within Limits Indicated.

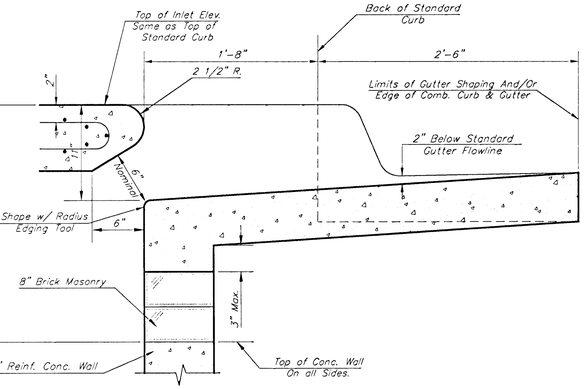


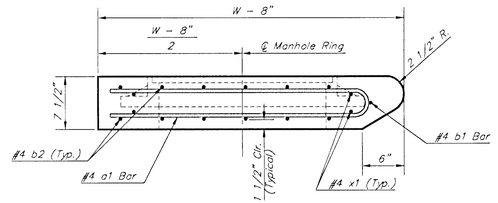

## MANHOLE RING AND COVER

Weight = 180 Lbs.

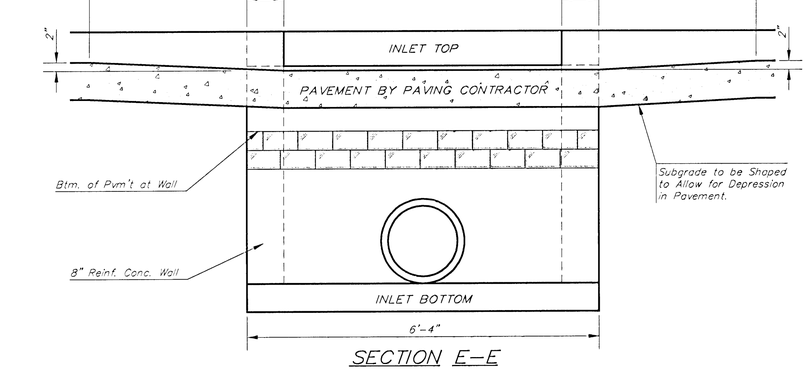
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



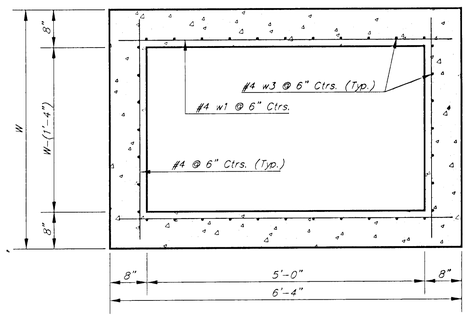

## SECTION B–B




## SECTION C–C




## SECTION E–E




## SECTION D–D

NOTE: Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.

Additional curb and gutter construction necessary to connect set-back inlet to pavement will be paid for at the unit price bid for each inlet hookup.

Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self-cleaning between all inlet and/or outlet pipes.

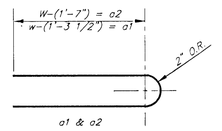
The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall

| PRECAST SLAB AND FLOOR REINFORCING | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | W = 4'-4" | | W = 5'-4" | | W = 6'-4" | | W = 7'-4" | | W = 8'-4" | |
| MARK | SIZE | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH |
| * a1 | #4 | 6 | 6'-7" | 6 | 8'-7" | 6 | 10'-7" | 6 | 12'-7" | 6 | 14'-7" |
| a2 | #4 | 4 | 6'-0" | 4 | 8'-0" | 4 | 10'-0" | 4 | 12'-0" | 4 | 14'-0" |
| a3 | #4 | 13 | 4'-1" | 13 | 5'-1" | 13 | 6'-1" | 13 | 7'-1 | 13 | 8'-1" |
| b1 | #4 | 1 | 4'-9" | 1 | 4'-9" | 1 | 4'-9" | 1 | 4'-9" | 1 | 4'-9" |
| * b2 | #4 | 23 | 6'-1" | 29 | 6'-1" | 35 | 6'-1" | 41 | 6'-1" | 47 | 6'-1" |
| x1 | #4 | 8 | 3'-10" | 8 | 4'-2" | 8 | 4'-6" | 8 | 4'-10" | 8 | 5'-2" |
| WALL REINFORCING | | | | | | | | | | | |
| | | W = 4'-4" | | W = 5'-4" | | W = 6'-4" | | W = 7'-4" | | W = 8'-4" | |
| MARK | SIZE | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH |
| w1 | #4 | ① | 6'-1" | ① | 6'-1" | ① | 6'-1" | ① | 6'-1" | ① | 6'-1" |
| w2 | #4 | ① | 4'-1" | ① | 5'-1" | ① | 6'-1" | ① | 7'-1" | ① | 8'-1" |
| w3 | #4 | 32 | ② | 36 | ② | 40 | ② | 44 | ② | 48 | ② |

* Field Bend or Cut Reinforcing as Required for Clearance.

① 4 (HI - 12") (HI - 21") Rounded down to nearest 0.5"

② HI - 3"




## BENDING DIAGRAM

| STANDARD CURB INLET PRECAST TOPS | | | |
|---|---|---|---|
| W | PRE-CAST TOP SIZE | PIPE SIZE | CU. YD. CONC. |
| 4'-4" | 3'-8" x 6'-4" x 7 1/2" | 21" & SMALLER | 0.38± |
| 5'-4" | 4'-8" x 6'-4" x 7 1/2" | 24" & 30" | 0.51± |
| 6'-4" | 5'-8" x 6'-4" x 7 1/2" | 36" & 42" | 0.64± |
| 7'-4" | 6'-8" x 6'-4" x 7 1/2" | 48" & 54" | 0.77± |
| 8'-4" | 7'-8" x 6'-4" x 7 1/2" | 60" & 66" | 0.90± |

Revised – Feb. 16, 1989

CITY OF WICHITA STANDARD TYPE 1A

# Curb Inlet Details

INLET OPENING = 8" X 5'-0"


BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

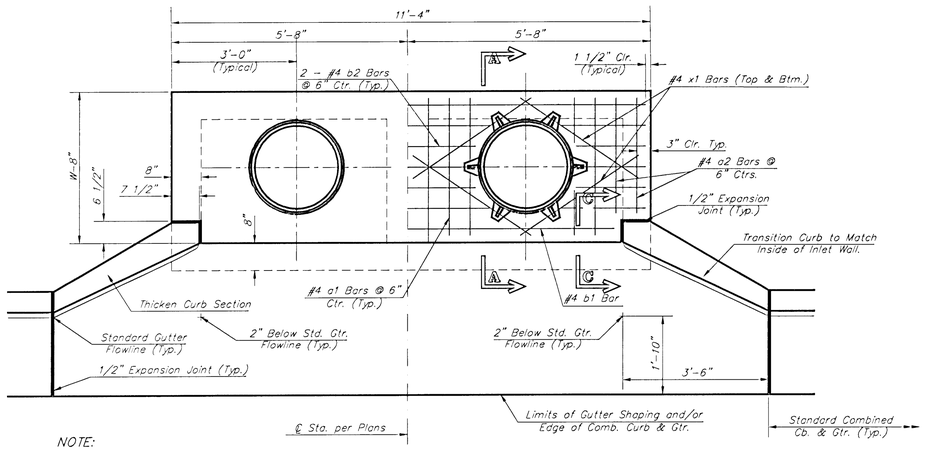

PROJECT NUMBER 472-89247

SHEET 20 OF 34

| DESIGN | DRAWN | APPROVED | DATE | SCALE |
|---|---|---|---|---|
| C.D.W. | Staff | | 3-28-01 | None |

98-05-6082

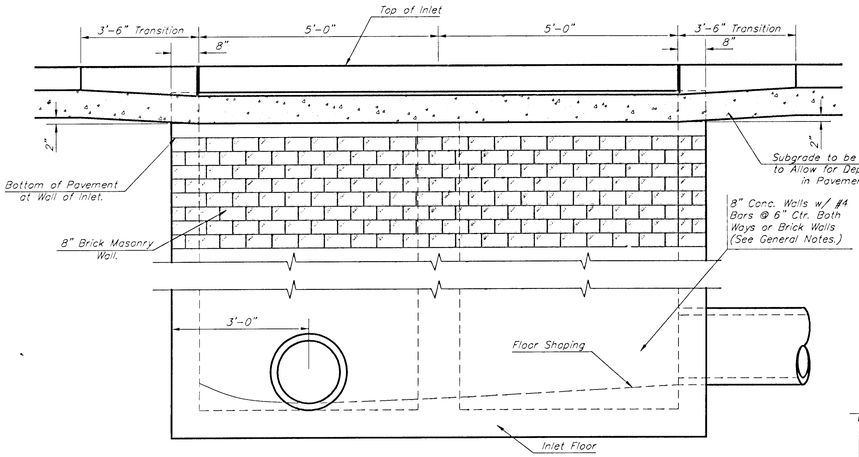
Type1A-5



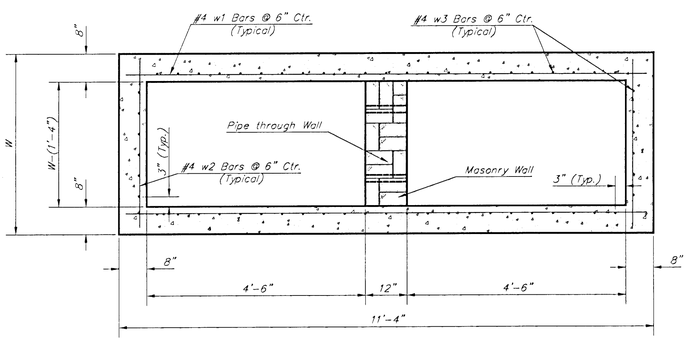

NOTE:
*Expansion Joint Only in Curb Area with Concrete Pavement.*

## PLAN

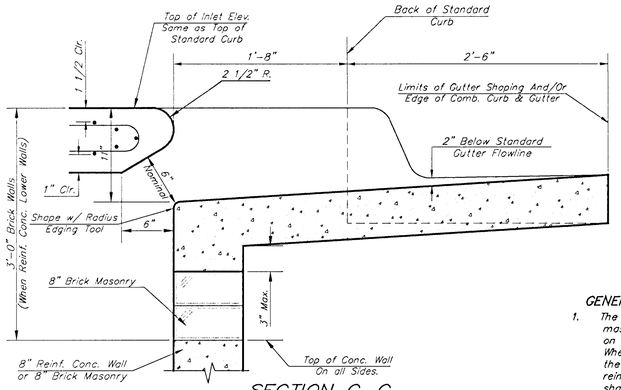
*Left Side Shown Without Slab Reinforcing, Right Side Shown With Slab Reinforcing



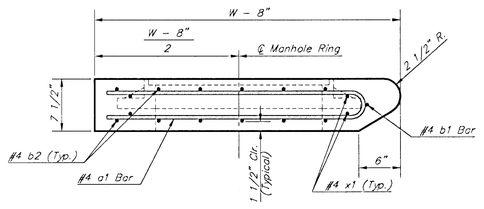

## ELEVATION



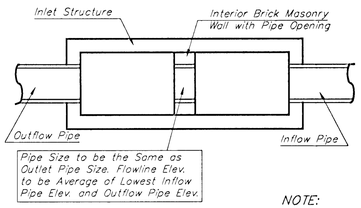

## SECTION B-B



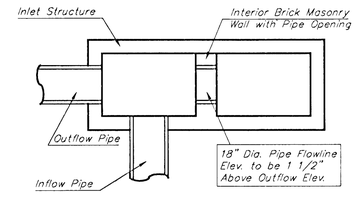

## SECTION C-C




## SECTION A-A

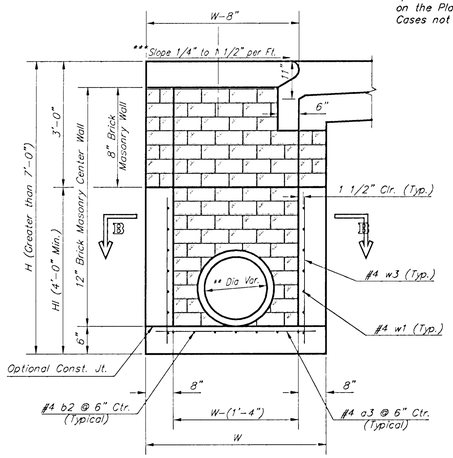



## CASE I



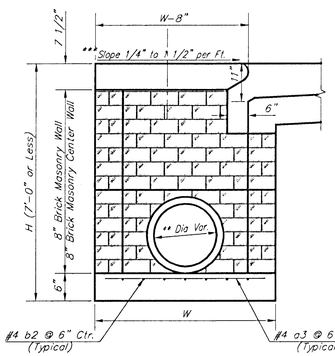

## CASE II

NOTE:
*Center Wall Pipe Size shall be as Specified in Inlet Construction Notes on the Plan/Profile Sheets for those Cases not Shown Here.*




## TYPICAL INLET SECTION AT CENTER WALL

(Reinforced Concrete Walls)




## TYPICAL INLET SECTION AT CENTER WALL

(Masonry Walls)

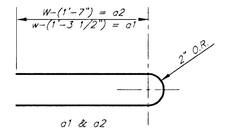
NOTES:
** A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II above.
*** Slope of inlet tops to match sidewalk of parking slopes within limits indicated

| PRECAST SLAB AND FLOOR REINFORCING | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | W = 4'-4" | | W = 5'-4" | | W = 6'-4" | | W = 7'-4" | | W = 8'-4" | |
| MARK | SIZE | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH |
| * a1 | #4 | 13 | 6'-7" | 13 | 8'-7" | 13 | 10'-7" | 13 | 12'-7" | 13 | 14'-7" |
| a2 | #4 | 4 | 6'-0" | 4 | 8'-0" | 4 | 10'-0" | 4 | 12'-0" | 4 | 14'-0" |
| a3 | #4 | 23 | 4'-1" | 23 | 5'-1" | 23 | 6'-1" | 23 | 7'-1 | 23 | 8'-1" |
| b1 | #4 | 1 | 9'-9" | 1 | 9'-9" | 1 | 9'-9" | 1 | 9'-9" | 1 | 9'-9" |
| * b2 | #4 | 23 | 11'-1" | 29 | 11'-1" | 35 | 11'-1" | 41 | 11'-1" | 47 | 11'-1" |
| x1 | #4 | 16 | 3'-10" | 16 | 4'-2" | 16 | 4'-6" | 16 | 4'-10" | 16 | 5'-2" |
| WALL REINFORCING | | | | | | | | | | | |
| | | W = 4'-4" | | W = 5'-4" | | W = 6'-4" | | W = 7'-4" | | W = 8'-4" | |
| MARK | SIZE | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH |
| w1 | #4 | ① | 11'-1" | ① | 11'-1" | ① | 11'-1" | ① | 11'-1" | ① | 11'-1" |
| w2 | #4 | ① | 4'-1" | ① | 5'-1" | ① | 6'-1" | ① | 7'-1" | ① | 8'-1" |
| w3 | #4 | 52 | ② | 56 | ② | 60 | ② | 64 | ② | 68 | ② |

* Field Bend or Cut Reinforcing as Required for Clearance.
① 4 (HI - 12") (HI - 21") Rounded down to nearest 0.5'
② HI - 3"

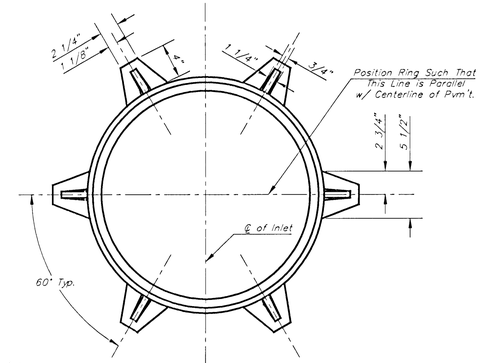
### GENERAL NOTES:

1. The contractor shall be required to construct 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" or less and H=7'-0" or less. When W is greater than 6'-4" and H is less than 7'-0" the outside inlet walls below the brick stack shall be reinforced concrete construction and the center wall shall be of masonry construction as shown for the masonry wall option.
2. Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outlet pipes.
3. Concrete tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix.
4. Inlet top reinforcing shall be spaced on 6" max. centers. Inlet lids shall be notched out as indicated to facilitate construction of curb. Bars in inlet top to be field bent or cut to clear manhole ring.
5. The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.




## BENDING DIAGRAM

| STANDARD CURB INLET PRECAST TOPS | | | |
|---|---|---|---|
| W | PRE-CAST TOP SIZE | PIPE SIZE | CU. YD. CONC. |
| 4'-4" | 3'-8" 11'-4" 7 1/2" | 21" & SMALLER | 0.83± |
| 5'-4" | 4'-8" 11'-4" 7 1/2" | 24" & 30" | 1.09± |
| 6'-4" | 5'-8" 11'-4" 7 1/2" | 36" & 42" | 1.35± |
| 7'-4" | 6'-8" 11'-4" 7 1/2" | 48" & 54" | 1.61± |
| 8'-4" | 7'-8" 11'-4" 7 1/2" | 60" & 66" | 1.87± |




## MANHOLE RING AND COVER

Weight = 180 lbs.

*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.

Revised - Feb. 16, 1989

CITY OF WICHITA STANDARD TYPE 1A

# Curb Inlet Details

INLET OPENING = 8' X 10'-0"

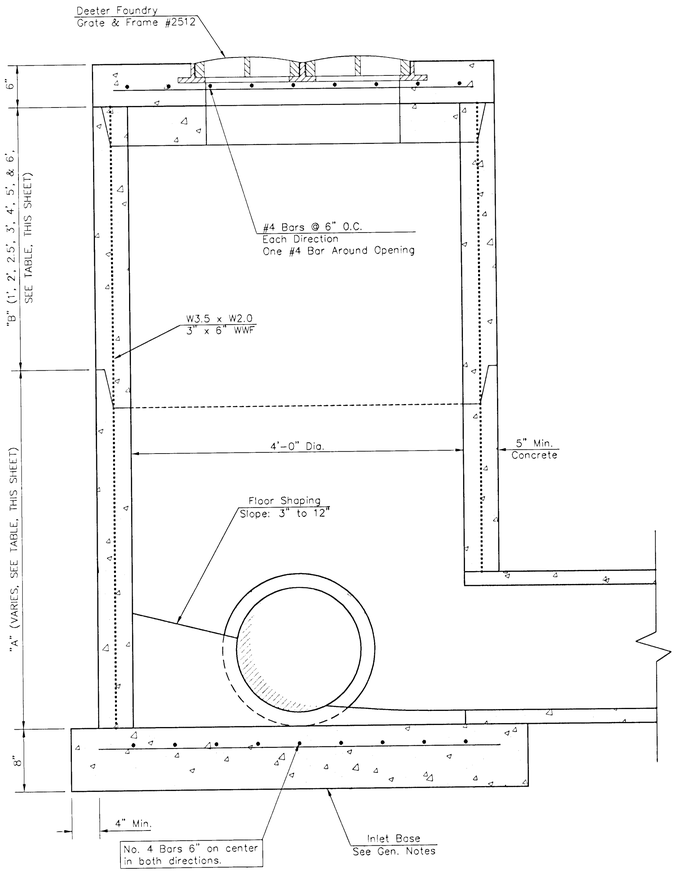
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER 472-89247

SHEET 21 OF 34

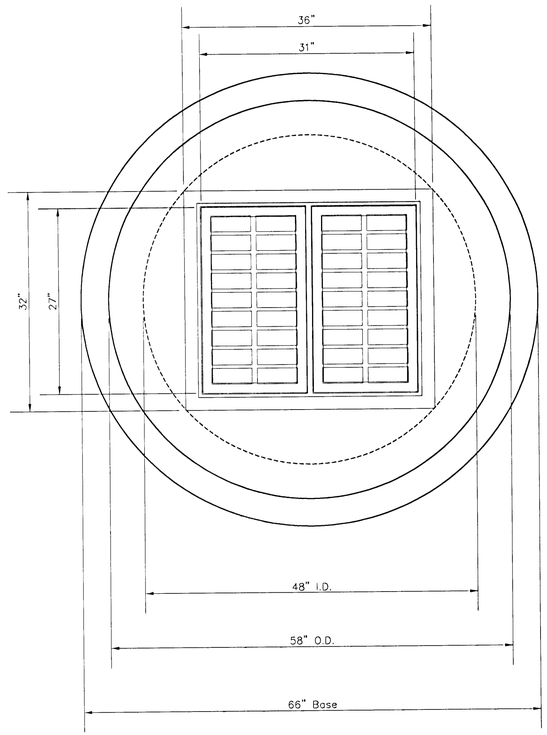
| DESIGN | DRAWN | APPROVED | DATE | SCALE |
|---|---|---|---|---|
| C.O.W. | Staff | | 3-28-01 | NONE |

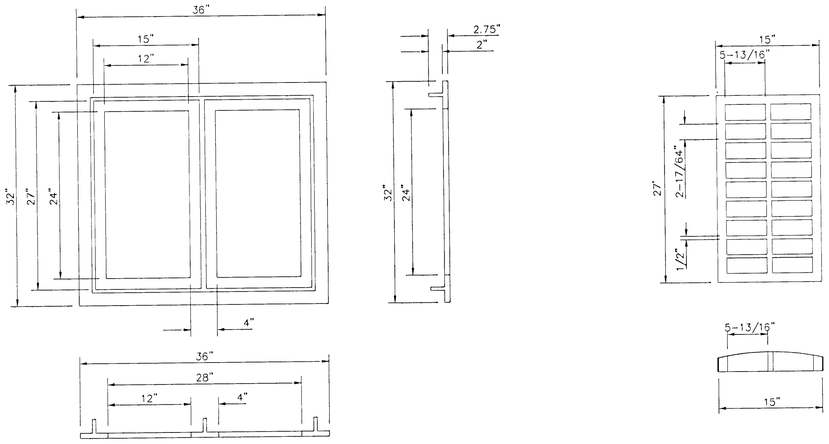
TYP1A-D




## YARD INLET

| LINE # | STA. | TOP OF INLET | INLET FLOW | "A" | "B" |
|---|---|---|---|---|---|
| 1 | 0+00 | 139.40 | 134.00 | 2.40' | 3' |
| 2 | 4+32.1 | 139.60 | 135.50 | 2.60' | 1' |
| 2 | 5+95.1 | 139.60 | 136.25 | 2.85' | – |
| 2A | 1+91.1 | 140.00 | 139.50 | 3.00' | – |
| 4 | 4+05.9 | 140.00 | 134.60 | 2.90' | 2' |
| 4 | 7+22.1 | 140.80 | 135.70 | 2.60' | 2' |
| | | | | | |




DEETER #2512 CATCH BASIN INLET GRATE & FRAME

## GENERAL NOTES

1. Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in yard inlet bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining.
2. Reinforcing steel shall be installed in the yard inlet bases and shall consist of no. 4 bars placed on 6" centers in both directions. The yard inlet base reinforcement shall be placed 6" above the bottom of the yard inlet base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the yard inlet.
3. The floors of all yard inlet shall be shaped with flow channels such that the inlets will be self cleaning and free of areas where solids could be deposited. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Inlet floors shall have slopes of 3 inches per foot in the areas outside of the flow channels sloped toward the flow channels. Pipes laid through inlets shall have the top half removed to neat lines for the full inside diameter of the inlet. Inlet floors shall then be shaped around the bottom half of the pipe which forms the flow channel.
4. Pipes installed within the excavation made for the inlet shall be cradled with concrete to the limits of the inlet excavation. When clay pipe is used, the cradle shall extend to the first joint outside the inlet. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within inlet excavation or to clay pipe joints adjacent to inlet shall be included in the unit price bid for the inlet.
5. Inlet grate castings and inlet frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawing.
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
7. Joints between inlet sections to be sealed with two two wraps of extruded butyl rubber joint mastic meeting City of Wichita Type "P" Manhole Specifications.
8. Special yard inlet shall be paid for at the unit price bid per each. All standard yard inlet diameters will be 4'.

# SPECIAL YARD INLET

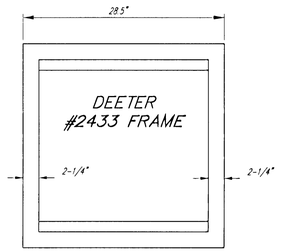
WICHITA, KANSAS

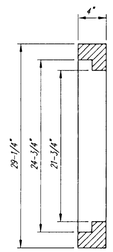
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

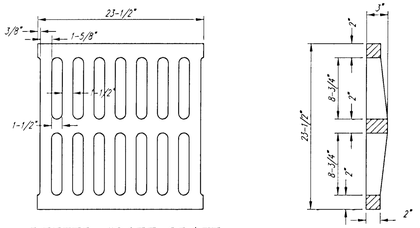
| PROJECT NUMBER | SHEET |
|---|---|
| 472-89247 | 22 of 34 |

| DESIGN | DRAWN | APPROVED | DATE | SCALE |
|---|---|---|---|---|
| | | | 3-28-01 | NONE |

DETAILS\Standard



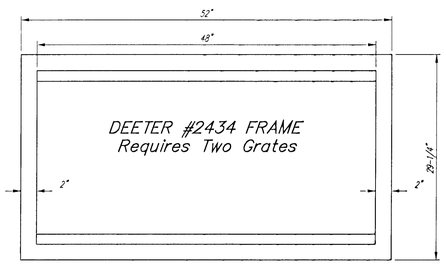


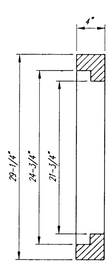


DEETER #2433 GRATE

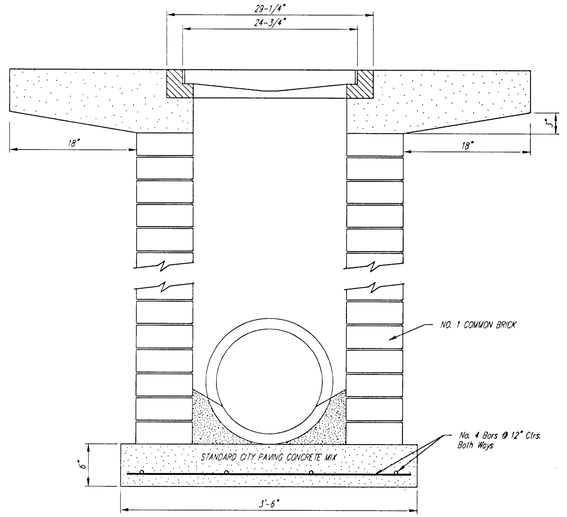
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be approved by the engineer.

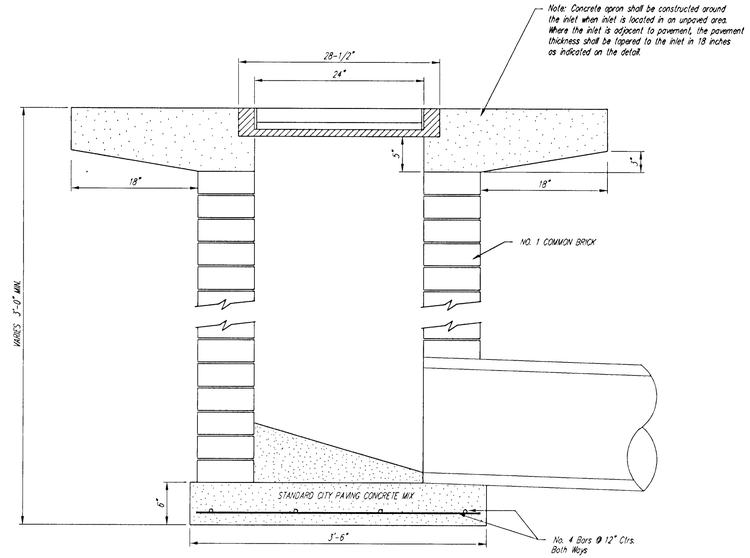
24" x 24" Frame and Grate Detail

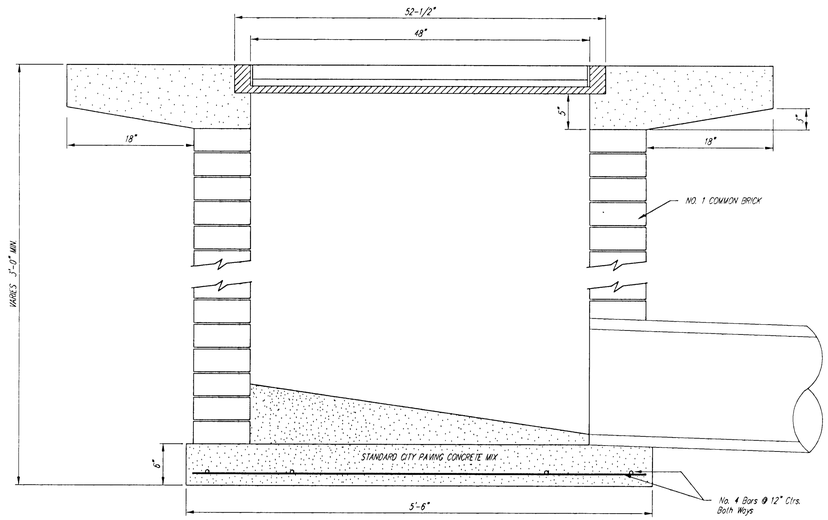



Double 24" x 24" Frame Detail




CITY OF WICHITA

# STANDARD DROP INLET

REXSTILLER ADDITION

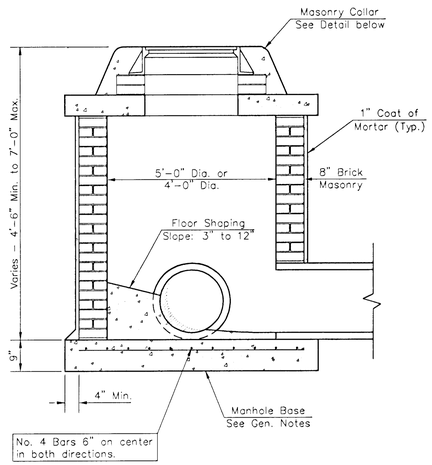
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER 472-89247

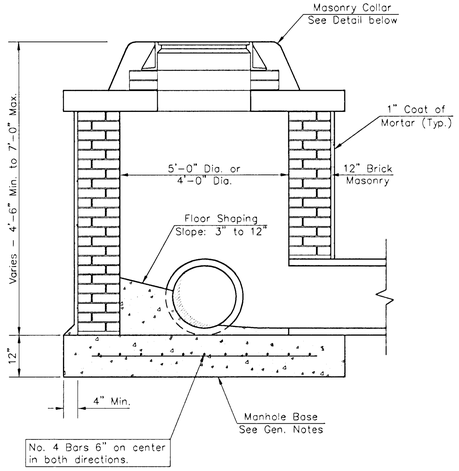
SHEET 23 OF 34

| DESIGN | DRAWN | APPROVED | DATE | SCALE |
|---|---|---|---|---|
| STAFF | STAFF | | 3-28-01 | NONE |

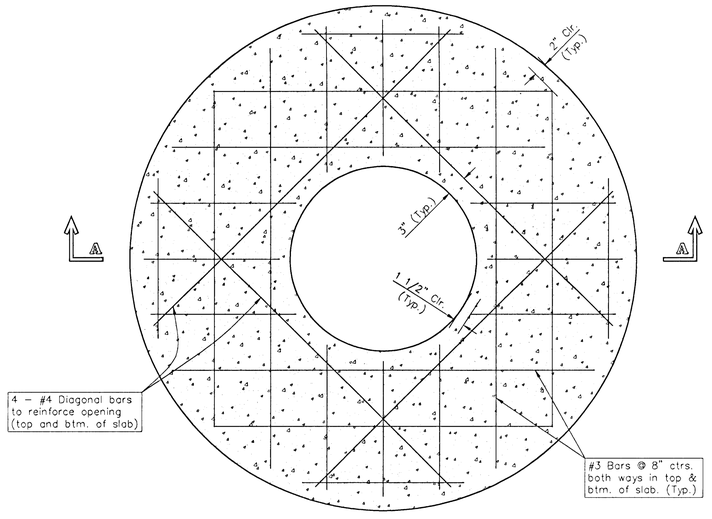
DETAILS\DRIPINLT




SHALLOW TYPE "A" MANHOLE




SHALLOW TYPE "B" MANHOLE




PLAN

## GENERAL NOTES

1. Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining admixture. Mortar shall be placed around the manhole ring as shown on the drawings when manholes are constructed in unpaved areas. Type "A" shallow manholes can be used on sewers when the manhole is not located within public street pavement. Manholes constructed where pipe sizes are smaller than 24" shall have an inside diameter of 4'. Manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 5'. Completed manhole shall be without leaks and water tight.

2. Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 6" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the manhole.

3. The floors of all manholes shall be shaped with flow channels such that the manholes will be self cleaning and free of areas where solids could be deposited as sewage flows through the manhole from all inlet pipes to the outlet pipe. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Manhole floors shall have slopes of 3 inches per foot in the areas outside of the flow channels sloped toward the flow channels. Pipes laid through manholes shall have the top half removed to neat lines for the full inside diameter of the manhole. Manhole floors shall then be shaped around the bottom half of the pipe which forms the flow channel.

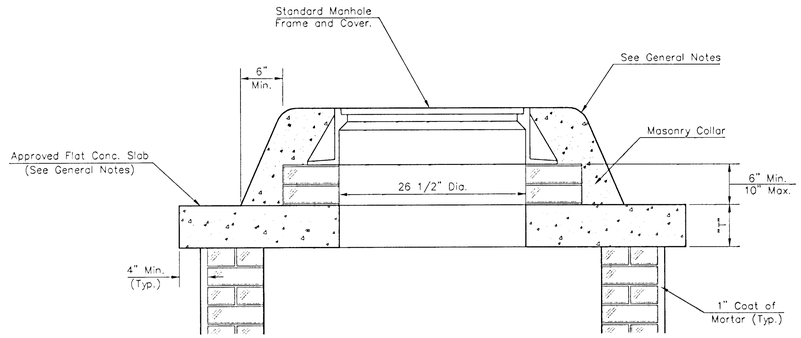
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within manhole excavation or to clay pipe joints adjacent to manhole shall be included in the unit price bid for the manhole.

5. Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.

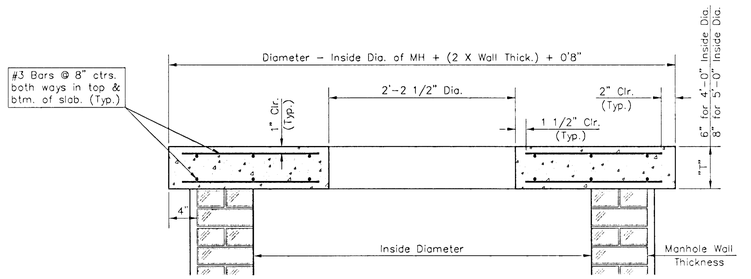
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.

7. Standard shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type and diameter indicated. Standard special shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.

8. All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

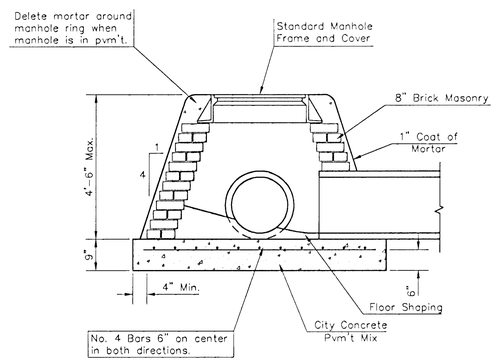



MASONRY COLLAR DETAIL

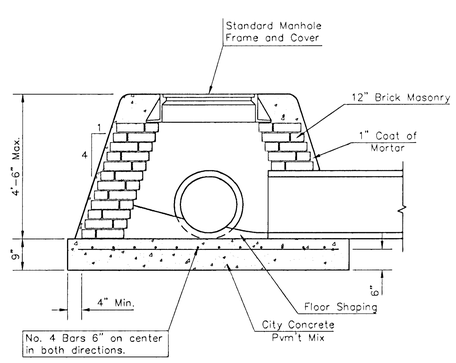



SECTION A-A

FLAT CONCRETE SLAB DETAILS




SPECIAL SHALLOW TYPE "A" MANHOLE




SPECIAL SHALLOW TYPE "B" MANHOLE

CITY OF WICHITA, KANSAS

# Std. Manhole Detail

TYPE "A" AND TYPE "B"

BAUGHMAN COMPANY P.A.
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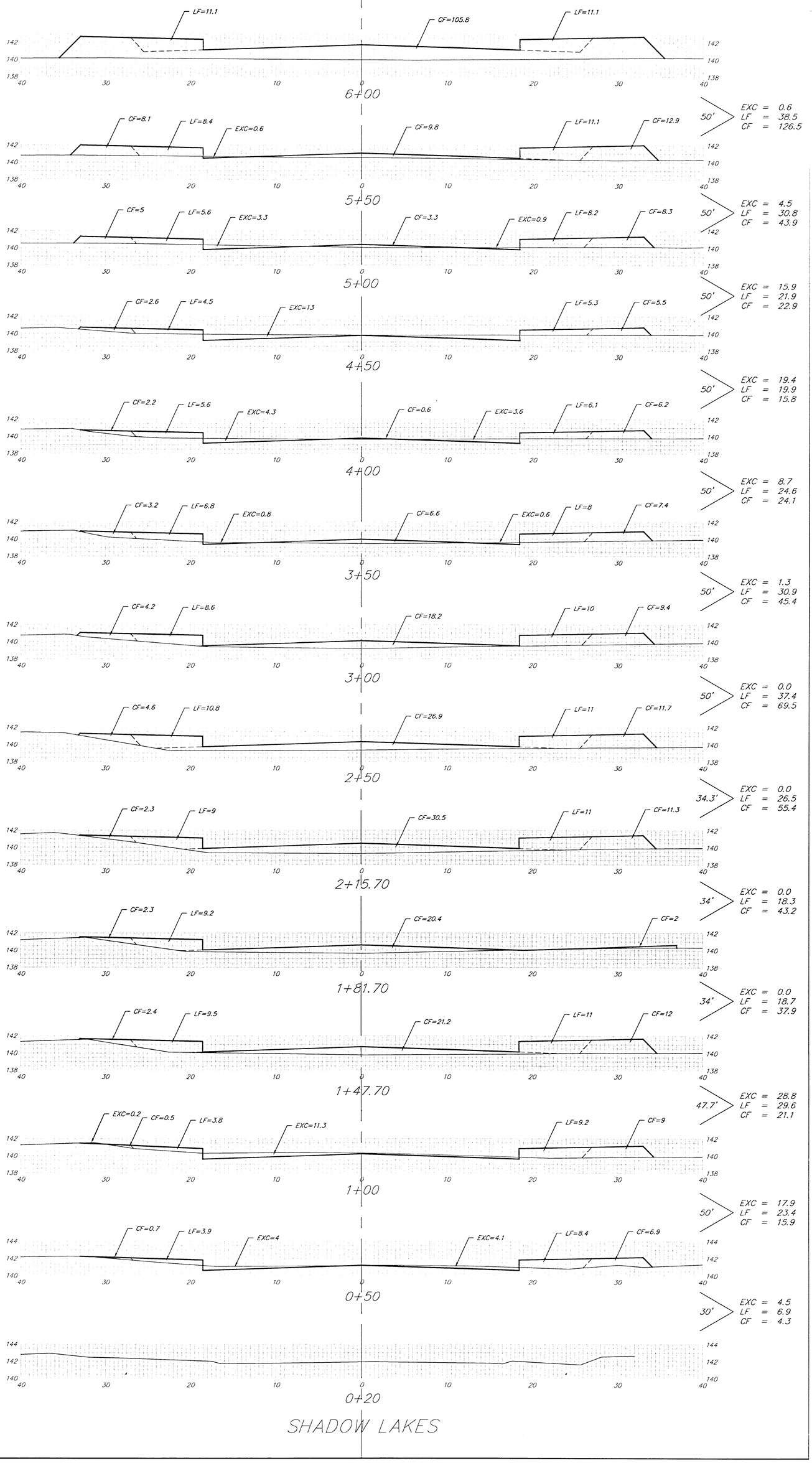
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

| PROJECT NUMBER | | | | | SHEET |
|---|---|---|---|---|---|
| 472-89247 | | | | | 24 of 34 |
| DESIGN | DRAWN | APPROVED | DATE | SCALE | |
| C.O.W. | Staff | | 3-28-01 | NONE | |

Detail \Shtmnh 00-12-E876




*Sheet Totals*

*Excavation = 101.6 C.Y.*
*Loose Fill = 327.4 C.Y.*
*Compacted Fill = 525.9 C.Y.*


BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211


PROJECT NUMBER
472-99247

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34

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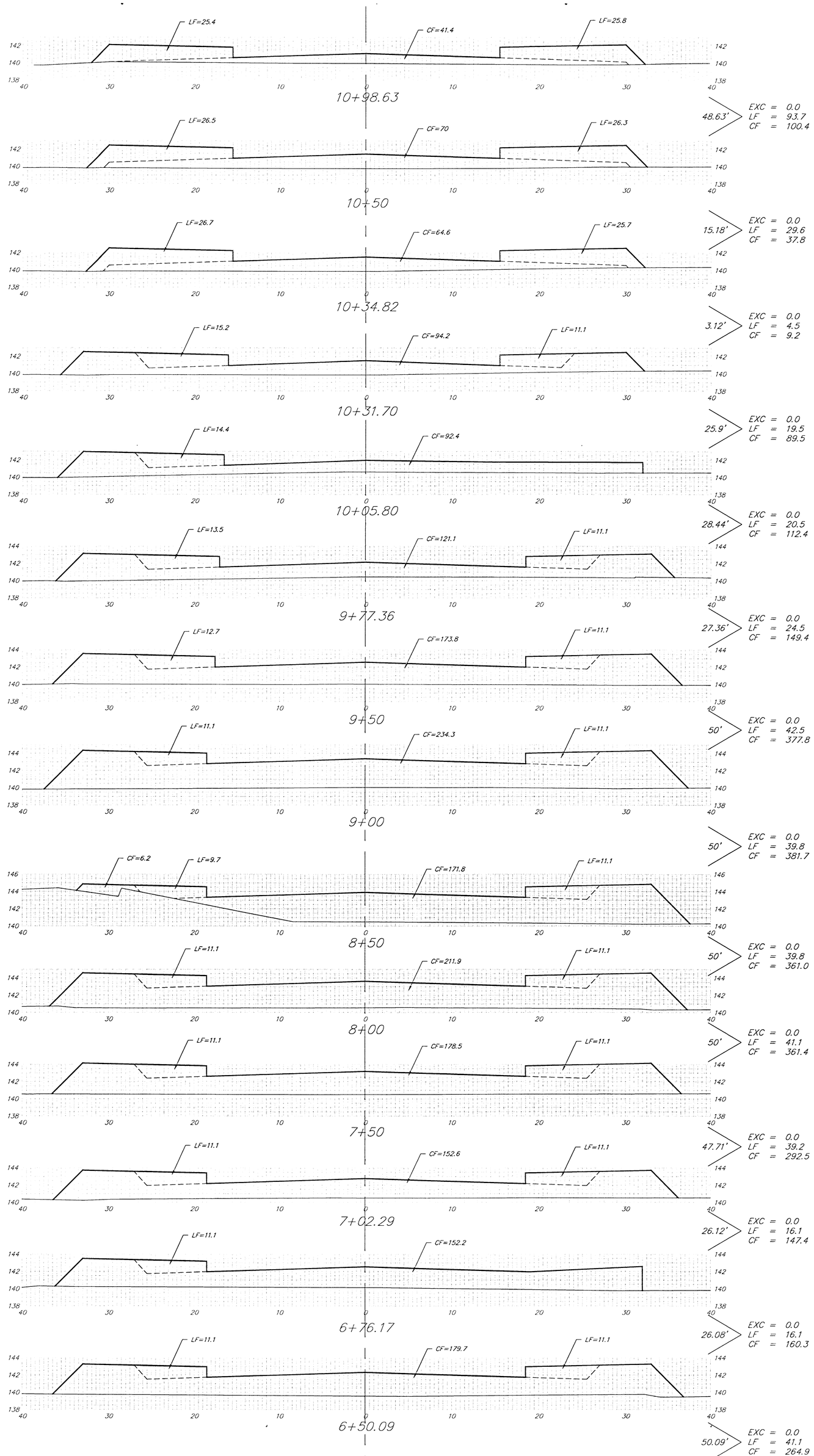
XS1




Sheet Totals
Excavation = 0.0 C.Y.
Loose Fill = 468.0 C.Y.
Compacted Fill = 2845.7 C.Y.

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316 PINE ST., P.O. BOX 1, KOSCIUSKO, MISSISSIPPI 39090

PROJECT NUMBER
472-99247

SHEET
26
OF
34