Lat. 357, S.W.I.

SANITARY SEWER IMPROVEMENTS

to serve

Spinnaker Coves - Hoskinson Addition

CITY OF WICHITA, KANSAS

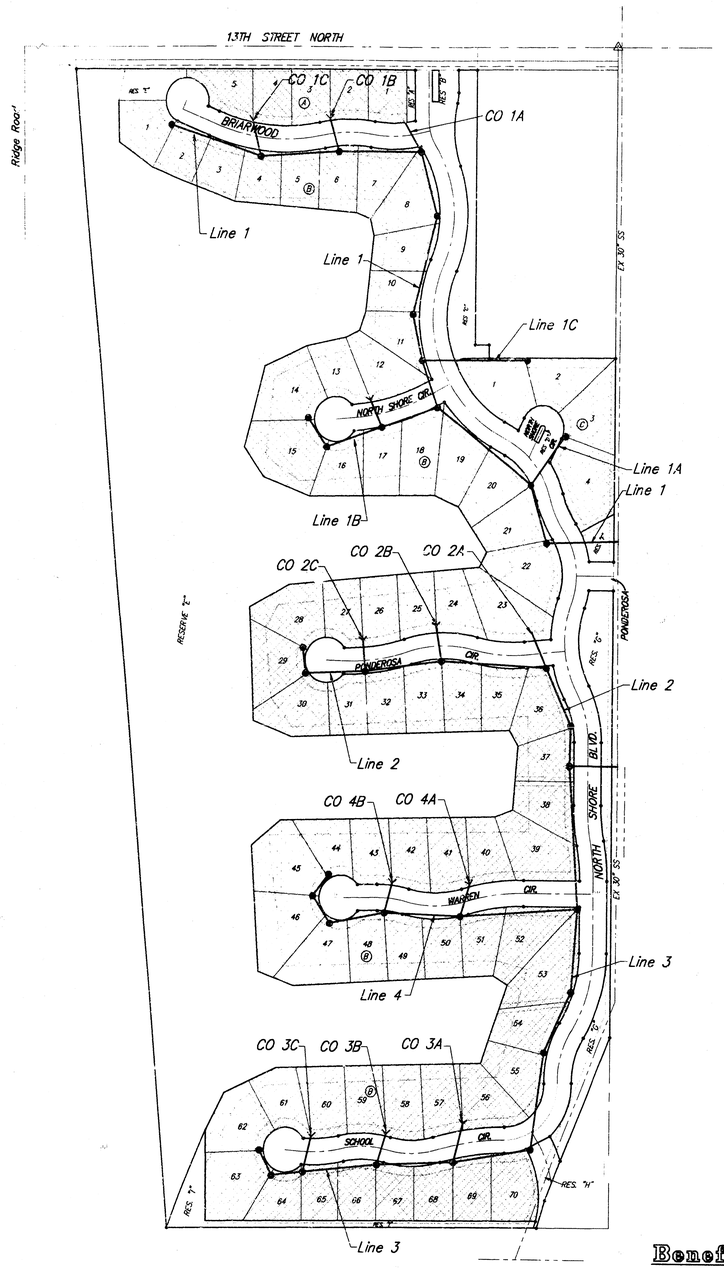
Michael E. Lindebak, City Engineer

Project Number

468-76-245-82499-000-000-001

Index Code:

742452



Scale: 1" = 150'

Benefit District

Sheet Index

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:

Multimedia Cablevision	262-0661
K.P.L. Gas Service Company	383-8650
Kansas Gas & Electric Company	383-8600
Peoples Gas Company	942-8350
Southwestern Bell Telephone Company	1-571-2611
City of Wichita Water Dept.	268-4908
City of Wichita Traffic Engineering	269-4446

2. Underground utility service lines and overhead utility pole lines 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. Properties within the project limits may have underground sprinkler systems in public right-of-way which conflict with new construction. Contractor will be required to remove such improvements should they not be removed by their owner at the time of construction of the project. The Contractor will be required to salvage all sprinkler heads and/or valves and give such material to their owner. Portions of underground sprinkler systems not in conflict with new construction shall be protected from damage and shall remain in place. All work in connection with underground sprinkler systems shall be considered as subsidiary to the contract pay items of work.

4. The Contractor shall notify pipeline companies at least 24 hours in advance of any work being performed across and/or adjacent to pipelines.

5. 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.

6. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.

7. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.

8. 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 laws.

9. Contractor shall grade the sanitary sewer alignment to the profile and elevations shown on the easement grading plan. All costs for grading shall be paid as lump sum for easement grading.

10. All areas disturbed by construction operations shall by seeded with rye grass at a rate of 300 lbs/acre immediately following construction in that area.

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

Benchmarks:
Flood Control Disk, N.E. Corner of Bridge on Centrol over Big Slough
Elev. = 132.00

C.C.W. Disc 109' N & 10' W of N 1/4 Corner on 13th Street
Elev. = 127.38

SPINNAKER COVES - HOSKINSON ADDITION

Scale: 1" = 40' Horizontal
1" = 5' Vertical
● = iron

Sta. 1+72.5, Line 1
Const. Std. Manhole
1-4" Stub (SW)
Top Elev.=128.90

Sta. 3+00.5, Line 1=
Sta. 0+00, Line 1A
Const. Std. Manhole
Top Elev.=129.60

Sta. 5+78.8, Line 1=
Sta. 0+00, Line 1B
Const. Std. Manhole
Top Elev.=131.40

Sta. 6+89.5, Line 1=
Sta. 0+00, Line 1C
Const. Std. Manhole
Top Elev.=131.50

Sta. 7+94.2, Line 1
Const. Std. Manhole
Top Elev.=131.80

Sta. 10+19.7, Line 1
Const. Std. Manhole
Top Elev.=132.20
Match Point

Sta. 0+92.4 to Sta. 1+35.5
Install Flowable Fill per City Specifications.

Sta. 5+95.4 to Sta. 6+28.8
Install Flowable Fill per City Specifications.

Sta. 0+04.3, Line 1
Connect to Exist. 8" Stub & Extend Line West.

Sta. 0+14.5 to Sta. 0+57.5
Install Flowable Fill per City Specifications.

Remove & Replace Fence as Necessary for Const. of Sanitary Sewer. To be Paid as 20.0 L.F. Fence, Removed & Replaced.

Sta. 1+38.4, Line 1A
Const. Std. Manhole
w/ 4" Stub (NE)
Top Elev.=130.60

CAUTION Water Main Crossing
CAUTION Storm Water Sewer Crossing
CAUTION Storm Water Sewer Crossing
CAUTION Water Main Crossing
CAUTION UG Bell Crossing

Line 1
Line 1A
Line 1B
Line 1C

NORTH SHORE BLVD.
NORTH SHORE CIR.
NORTH SHORE CIRCLE
PONDEROSA

RES. "F"
RES. "C"

Chain Link Fnc.
E.L. Spinnaker Coves-Hoskinson Addition
Exist. UG Tele. (Vert.)
Exist. 30" San. Sewer
10' Utility Easement
20' Utility Easement
20' Utility Easement 4 (By Sep. Instrument)
20' Utility Easement
Utility Easement
Easement
Flowable Fill
Proposed Grade
Existing Ground
8" Water Line Crossing
8" Water Main Crossing
24" RCP Crossing
U.G. SWB Crossing
North Shore Blvd.
North Shore Cir.

168.2 L.F. 8" Pipe @ +0.44%
128.0 L.F. 8" PVC Pipe @ +0.32%
278.3 L.F. 8" PVC Pipe @ +0.30%
110.7 L.F. 8" PVC Pipe @ +0.31%
104.7 L.F. 8" PVC Pipe @ +0.31%
225.5 L.F. 8" PVC Pipe @ +0.30%
138.4 L.F. 8" Pipe @ +0.43%

Contractor To Verify Depth & Location Of Exist. 30" Sewer Main Prior To Construction.

Flo = 115.52 (Exist. 30")
Flo = 119.63 (8" In)
Flo = 120.05
Flo = 120.37 (Out)
Flo = 120.47 (In)
Flo = 120.57
Flo = 120.88 (Out)
Flo = 120.98 (In)
Flo = 121.28
Flo = 121.58
Flo = 121.82 (Out)
Flo = 121.92 (In)
Flo = 121.99
Flo = 122.26 (Out)
Flo = 122.36 (In)
Flo = 122.68 (Out)
Flo = 122.78 (In)
Flo = 123.10
Flo = 123.40
Flo = 123.46 (Out)
Flo = 123.56 (In)
Flo = 120.88 (Out)
Flo = 120.98 (In)
Flo = 121.42
Flo = 121.58 (Out)
Flo = 121.91 (4" Stub)

0+04.3 1+00 1+72.5 2+00 3+00.5 4+00 5+00 5+78.8 6+00 6+89.5 7+94.2 9+00 10+00 10+19.7
0+00 1+00 1+38.4

SPINNAKER COVES - HOSKINSON
LINES 1 & 1A
ADDITION

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

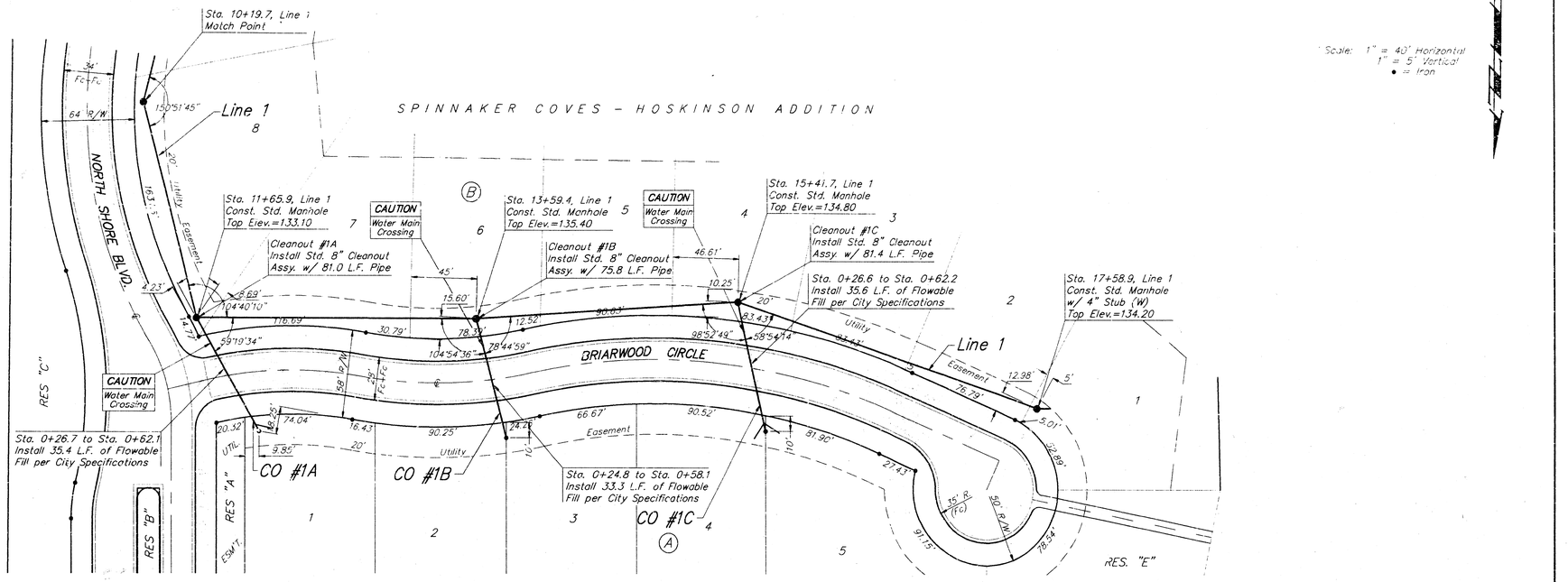
PROJECT NUMBER 468-76-245-82498-000-000-001
SHEET 2 OF 15
DESIGN H.P. | DRAWN MS | APPROVED | DATE Oct. 1995 | SCALE Noted

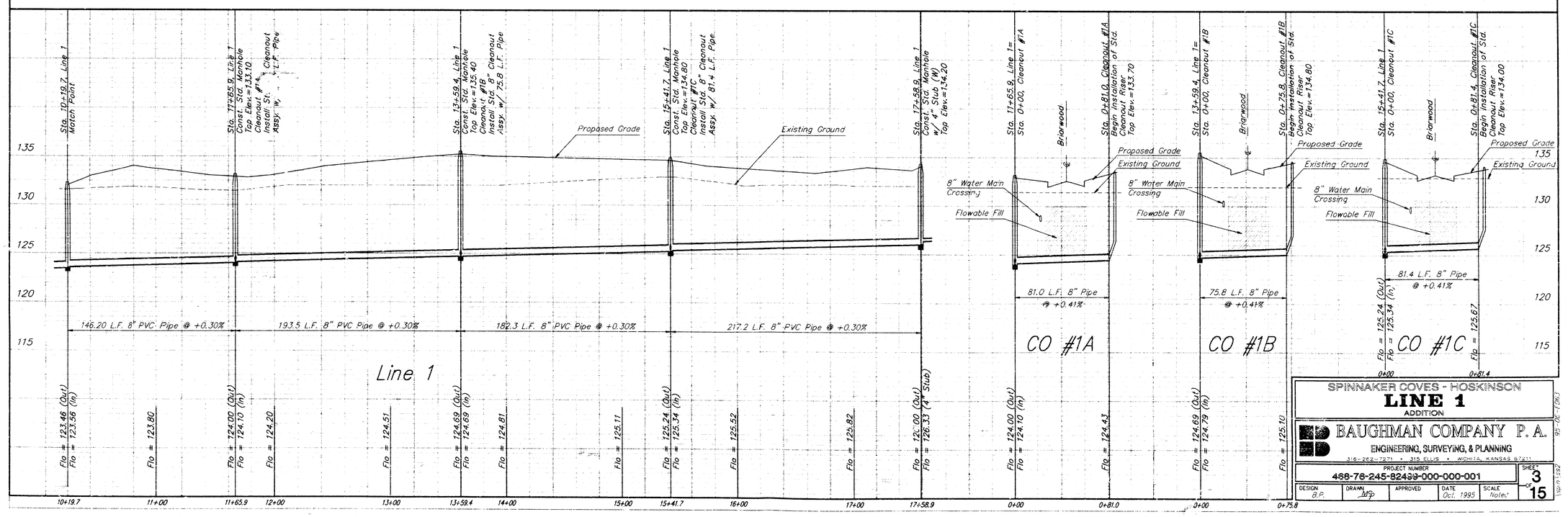
95-061-LDR3
USER 1357

Benchmarks:
Flood Control Disk, N.E. Corner of Bridge on Central over Big Slough
Elev. = 132.00

C.O.W. Disc 109' N & 10' W of
∴ 1/4 Corner on 13th Street
Elev. = 127.38

Scale: 1" = 40' Horizontal
1" = 5' Vertical
● = Iron





SPINNAKER COVES - HOSKINSON
LINE 1
ADDITION

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

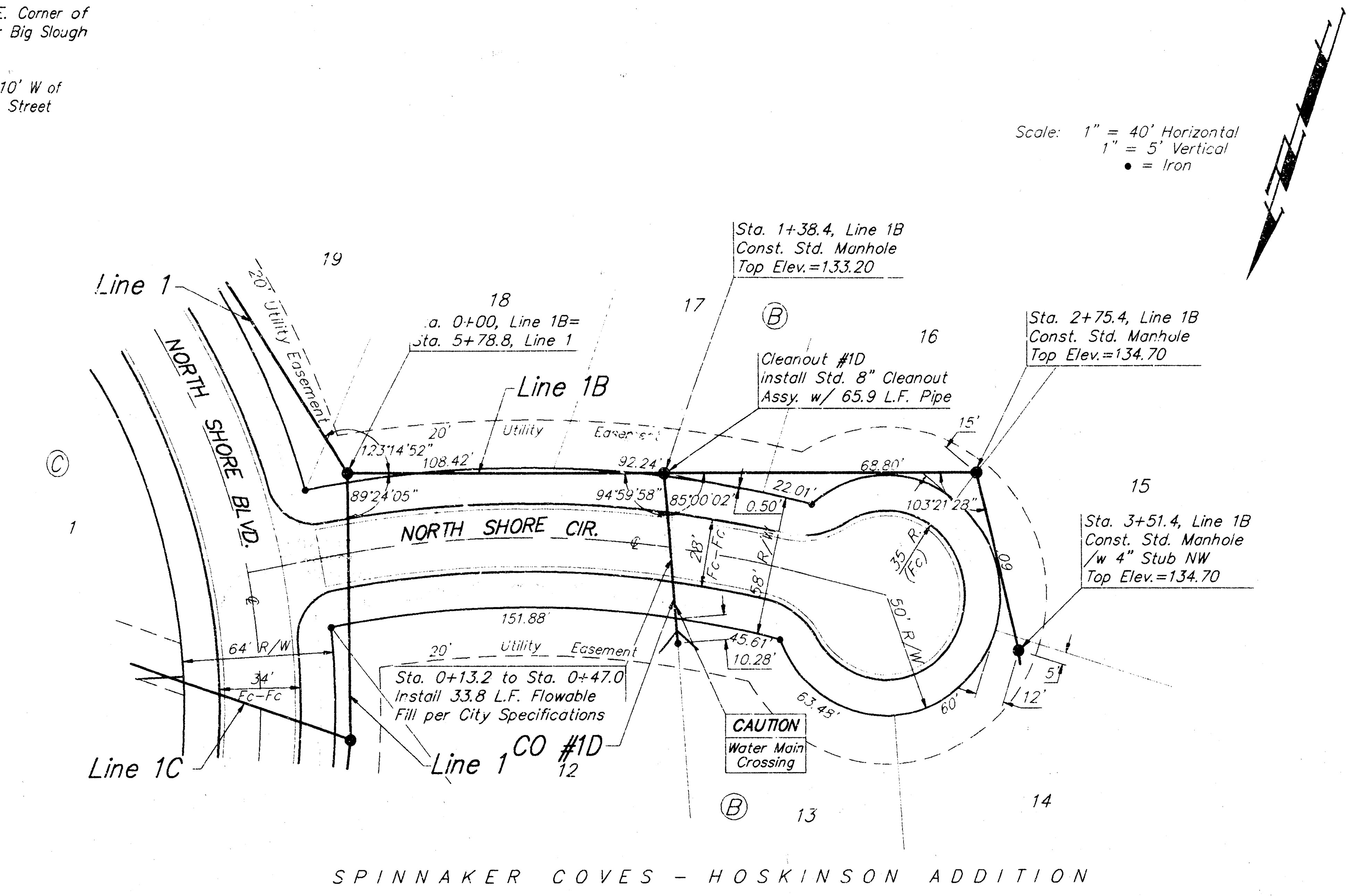
PROJECT NUMBER 468-76-245-82439-000-000-001

DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
B.P.	MS		Oct. 1995	None	3 of 15

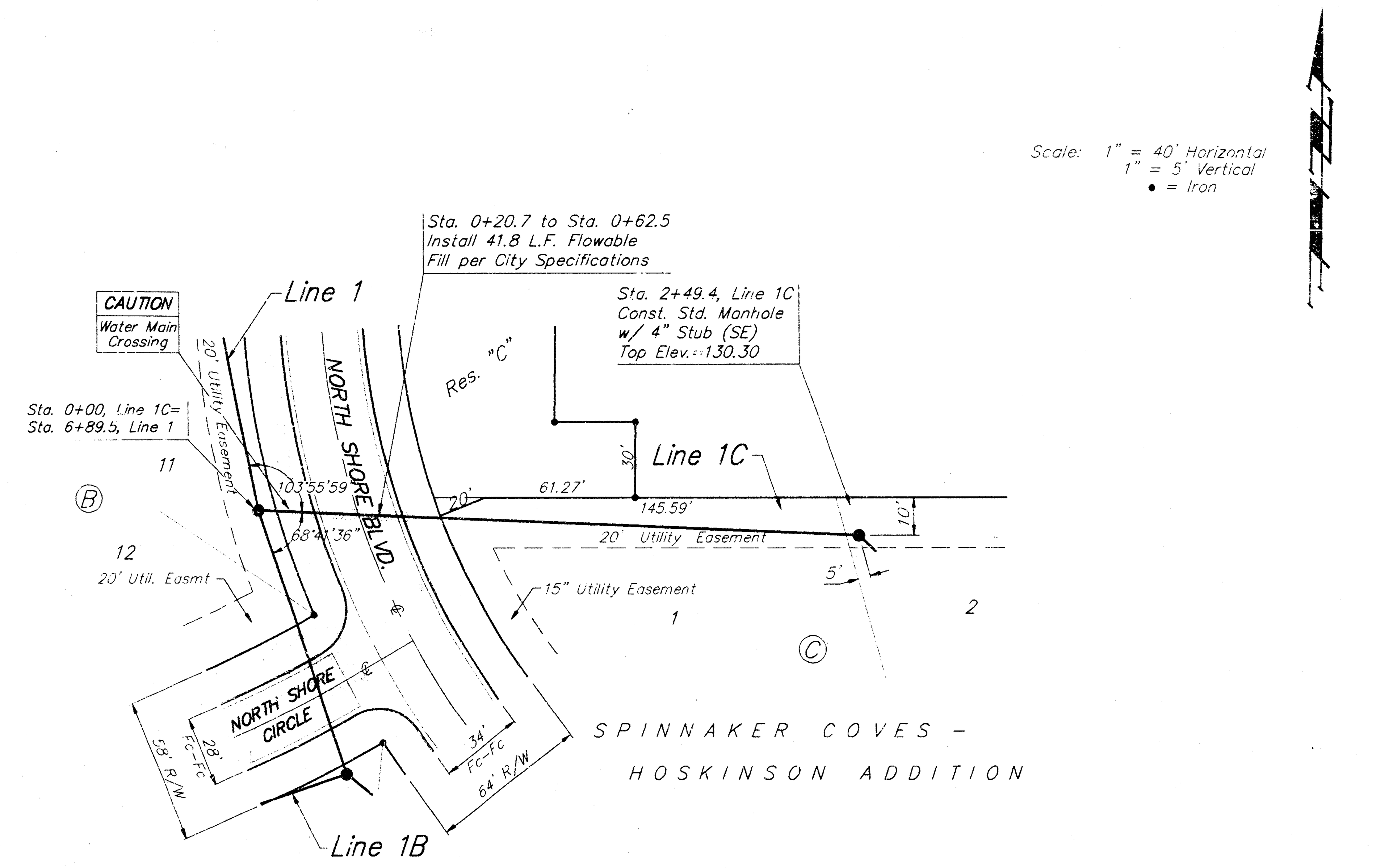
Benchmarks:
Flood Control Disk, N.E. Corner of Bridge on Central over Big Slough
Elev. = 132.00

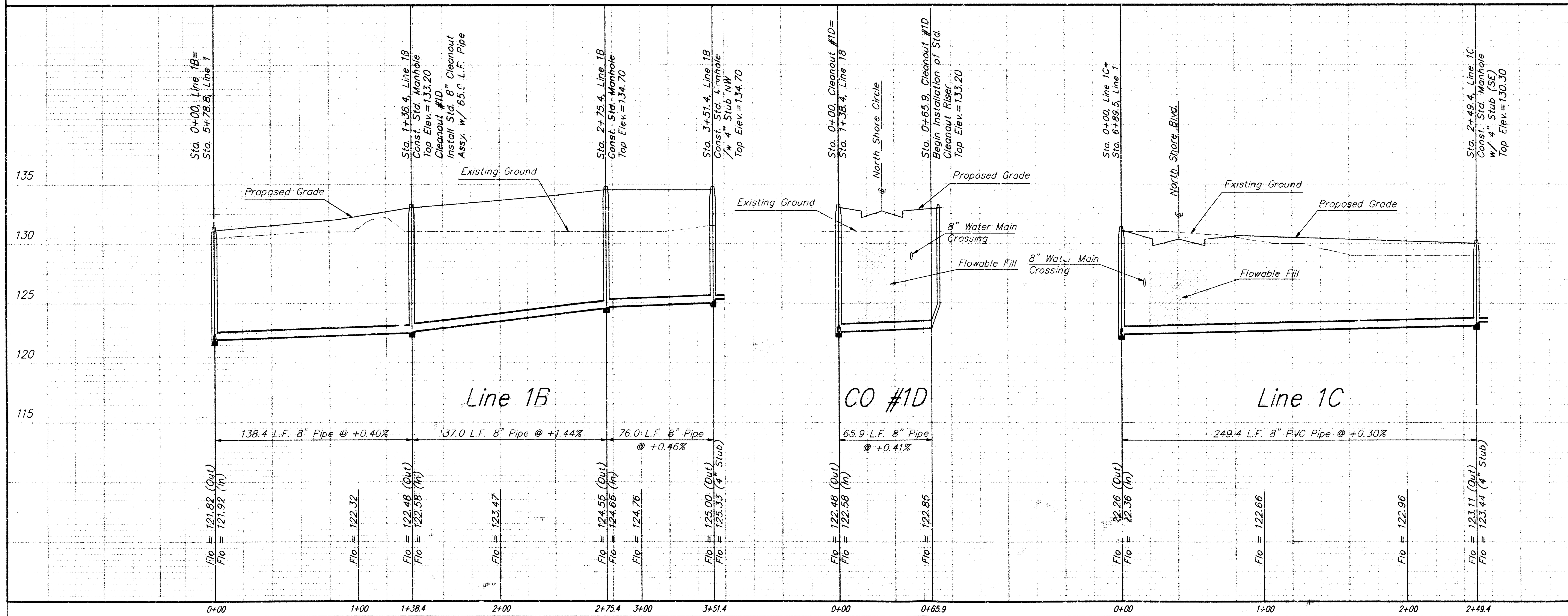
C.O.W. Disc 109' N & 10' W of N 1/4 Corner on 13th Street
Elev. = 127.38

Scale: 1" = 40' Horizontal
1" = 5' Vertical
● = Iron



Scale: 1" = 40' Horizontal
1" = 5' Vertical
● = Iron





SPINNAKER COVES - HOSKINSON

LINES 1B & 1C

ADDITION

BAUGHMAN COMPANY P.A.

ENGINEERING, SURVEYING, & PLANNING

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

PROJECT NUMBER	SHEET
468-76-245-82499-000-000-001	4 of 15

DESIGN	DRAWN	APPROVED	DATE	SCALE
B.P.	MSP		Oct. 1995	Noted

Scale: 1" = 40' Horizontal
1" = 5' Vertical
• = Iron

Line 3

Sta. 0+50.5 to Sta. 0+89.5
Install 39.0 L.F. Flowable
Fill per City Specifications.

CAUTION
U/G Bell
Crossing

Sta. 0+00, Line 2
Connext to Exist. 8" Stub
& Extend Line West.

Remove & Replace Fence
as Necessary for Const. of
Sanitary Sewer. To be Paid
as 20.0 L.F. Fence, Removed
& Replaced.

CAUTION
Water Main
Crossing

20' Drain & Util. Easement

Sta. 1+08.9, Line 2=
Sta. 0+00, Line 3
Const. Std. Manhole
Top Elev.=129.30

Sta. 1+98.1, Line 2
Const. Std. Manhole
Top Elev.=129.60

NORTH SHORE BLVD

Utility Easement

Exist. 30" Sanitary Sewer

Sta. 3+37.9, Line 2
Const. Std. Manhole
Top Elev.=130.30

Line 2

Cleanout #2A
Install Std. 8" Cleanout
w/ 72.1 L.F. Pipe

CO #2A

Install 34.8 L.F. of Flowable
Fill per City Specifications

CAUTION
Water Main
Crossing

Sta. 5+85.1, Line 2
Const. Std. Manhole
Top Elev.=131.30

Cleanout #2B
Install Std. 8" Cleanout
w/ 68.5 L.F. Pipe

CO #2B

Install 33.2 L.F. of Flowable
Fill per City Specifications

CAUTION
Water Main
Crossing

Sta. 7+65.6, Line 2
Const. Std. Manhole
Top Elev.=131.90

Cleanout #2C
Install Std. 8" Cleanout
w/ 58.0 L.F. Pipe

CO #2C

Install 33.0 L.F. of Flowable
Fill per City Specifications

CAUTION
Water Main
Crossing

Sta. 8+30.9 to Sta. 8+81.4
Install 50.5 L.F. Flowable
Fill per City Specifications.

CAUTION
Water Main
Crossing

Sta. 9+05.9, Line 2
Const. Std. Manhole
Top Elev.=133.20

Sta. 9+66.8, Line 2
Const. Std. Manhole
/w 4" Stub N
Top Elev.=133.20

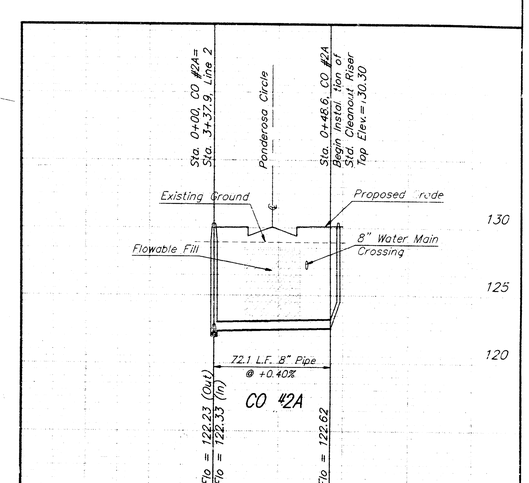
PONDEROSA CIRCLE

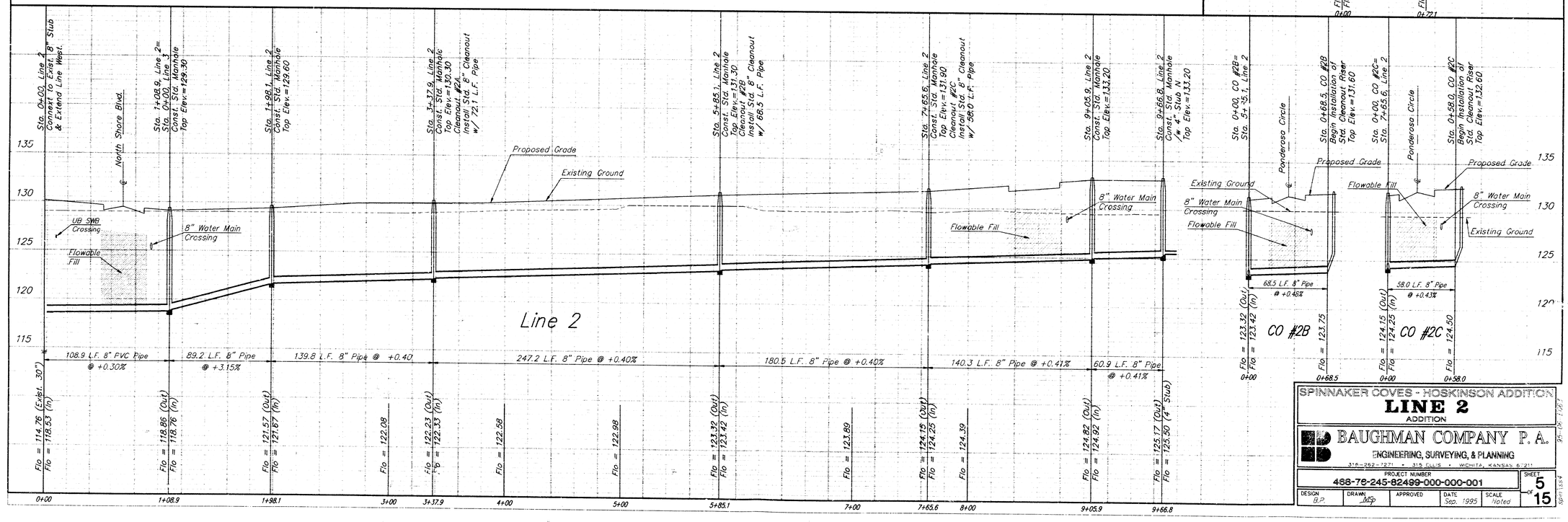
RES. "G"

SPINNAKER COVES - HOSKINSON ADDITION

Benchmarks:
Flood Control Disk, N.E. Corner of
Bridge on Central over Big Slough
Elev. = 132.00

C.O.W. Disc 109' N & 10' W of
N 1/4 Corner on 13th Street
Elev. = 127.38





SPINNAKER COVES - HOSKINSON ADDITION

LINE 2

ADDITION

BAUGHMAN COMPANY P. A.

ENGINEERING, SURVEYING, & PLANNING

318-262-1271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER 488-76-245-82489-000-000-001

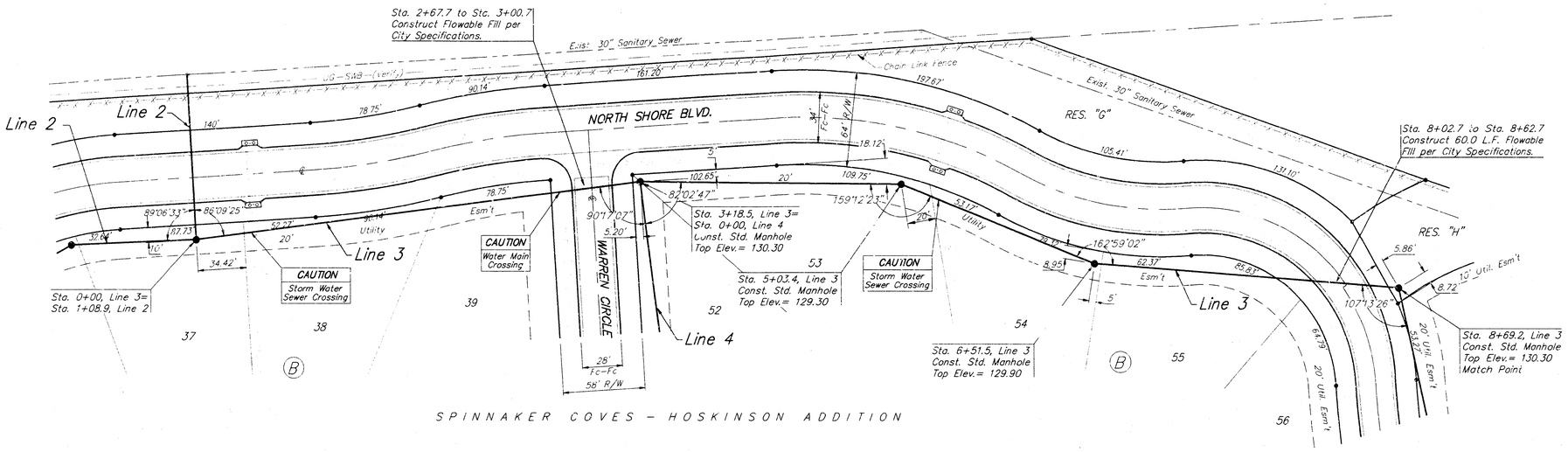
SHEET 5 OF 15

DESIGN	DRAWN	APPROVED	DATE	SCALE
B.P.	MSP		Sep. 1995	Noted

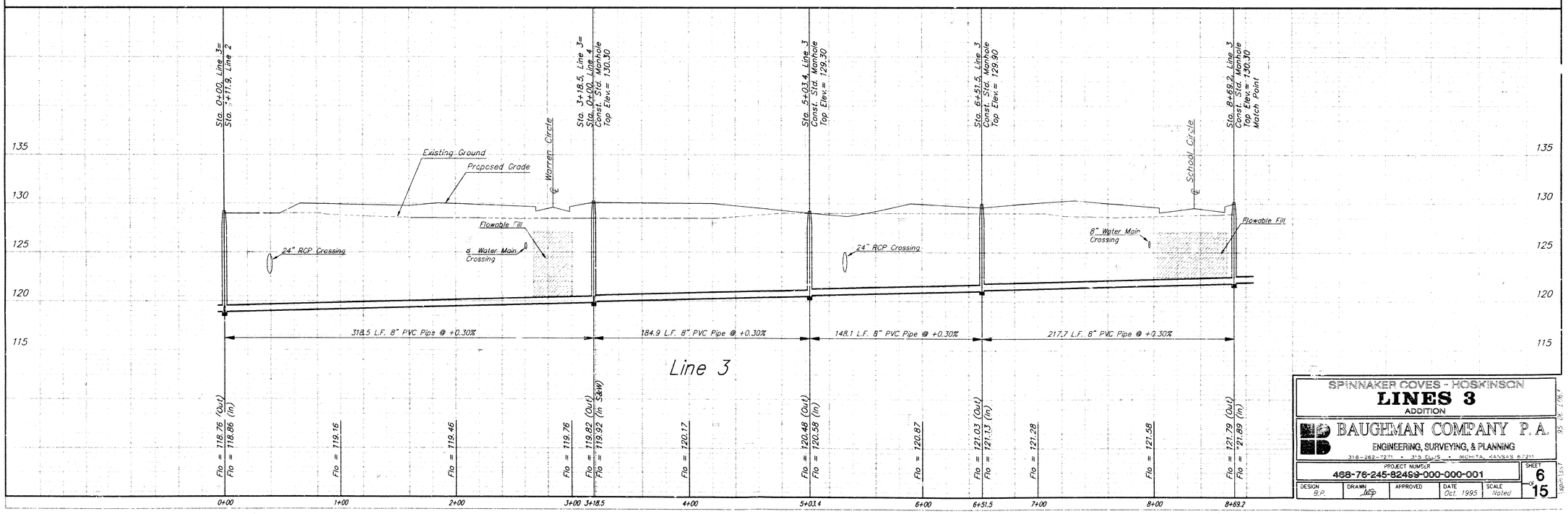
Benchmarks:
Flood Control Disk, N.E. Corner of Bridge on Central over Big Slough
Elev. = 132.00

C.O.W. Disc 109' N & 10' W. of NE 1/4 Corner on 13th Street
v. = 127.38

Scale: 1" = 40' Horizontal
1" = 5' Vertical
● = Iron



SPINNAKER COVES - HOSKINSON ADDITION



SPINNAKER COVES - HOSKINSON
LINES 3
ADDITION

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

PROJECT NUMBER: 468-76-245-82489-000-000-001
SHEET: 6 of 15

DESIGN	DRAWN	APPROVED	DATE	SCALE
B.P.	MSP		Oct. 1995	Noted

Benchmarks:
Flood Control Disk, N.E. Corner of Bridge on Central over Big Slough
Elev. = 132.00

C.O.W. Disc 109' N & 10' W of N 1/4 Corner on 13th Street
Elev. = 127.38

Scale: 1" = 40' Horizontal
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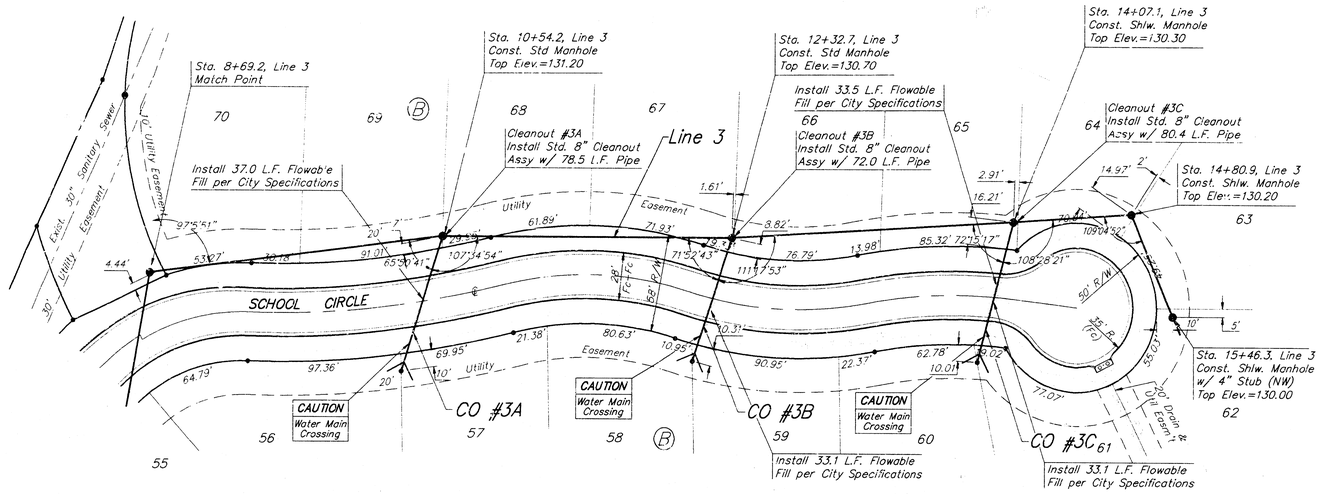
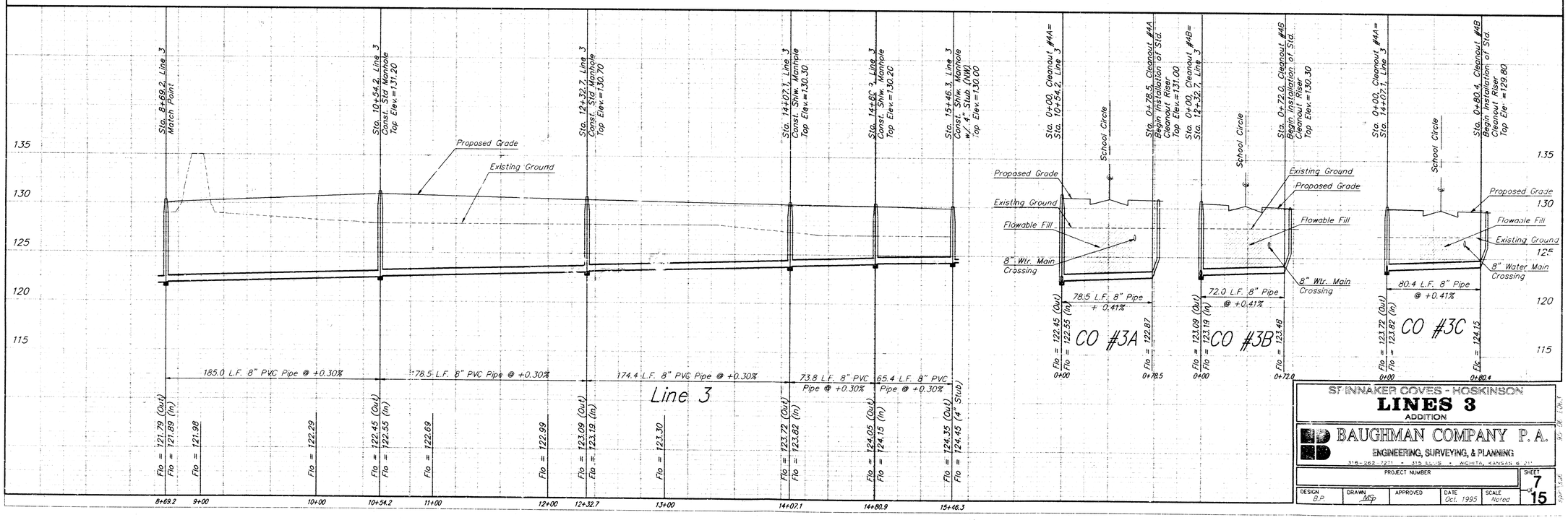


SPINNAKER COVES - HOSKINSON ADDITION



SPINNAKER COVES - HOSKINSON ADDITION

LINES 3

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 E. 1ST • WICHITA, KANSAS 67202

PROJECT NUMBER

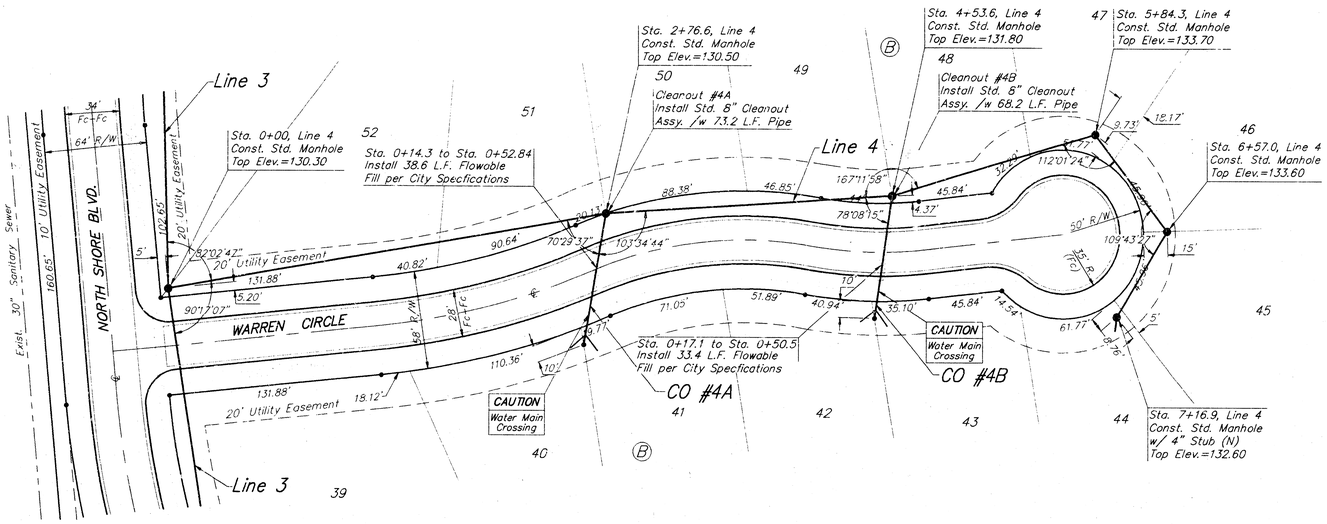
DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
B.P.	MSP		Oct. 1995	Noted	7 OF 15

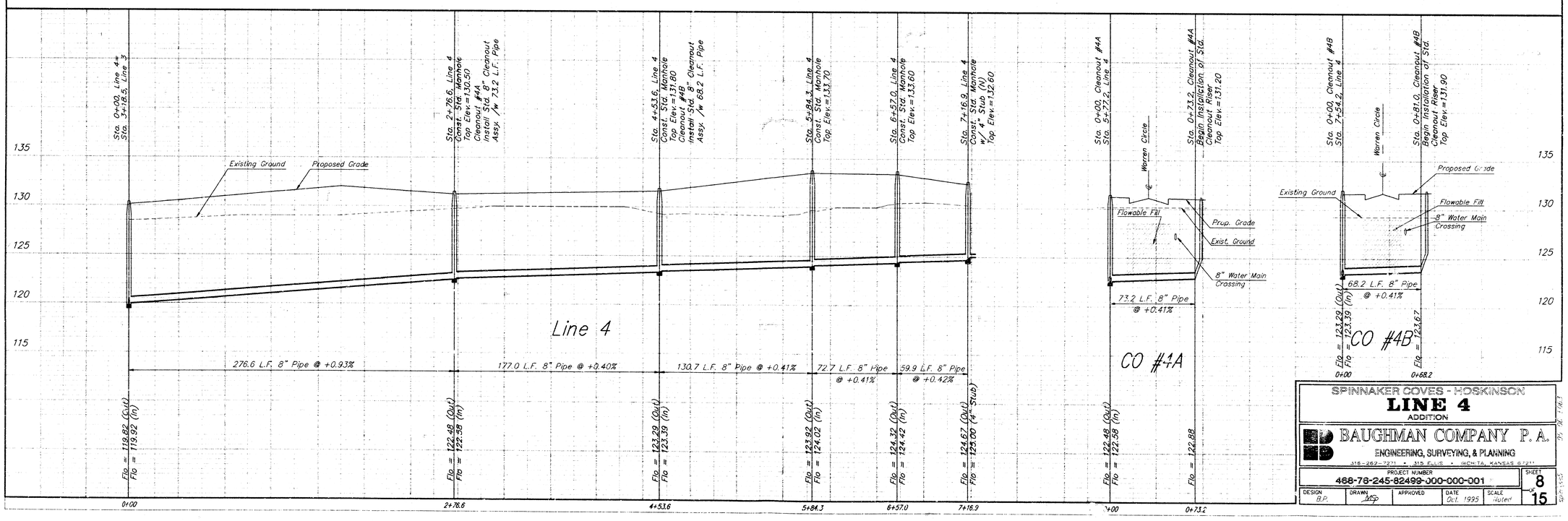
Benchmarks:
Flood Control Disk, N.E. Corner of Bridge on Central over Big Slough
Elev. = 132.00

C.O.W. Disc 109' N & 10' W of N 1/4 Corner on 13th Street
Elev. = 127.38

Scale: 1" = 40' Horizontal
1" = 5' Vertical
• = Iron

SPINNAKER COVES – HOSKINSON ADDITION



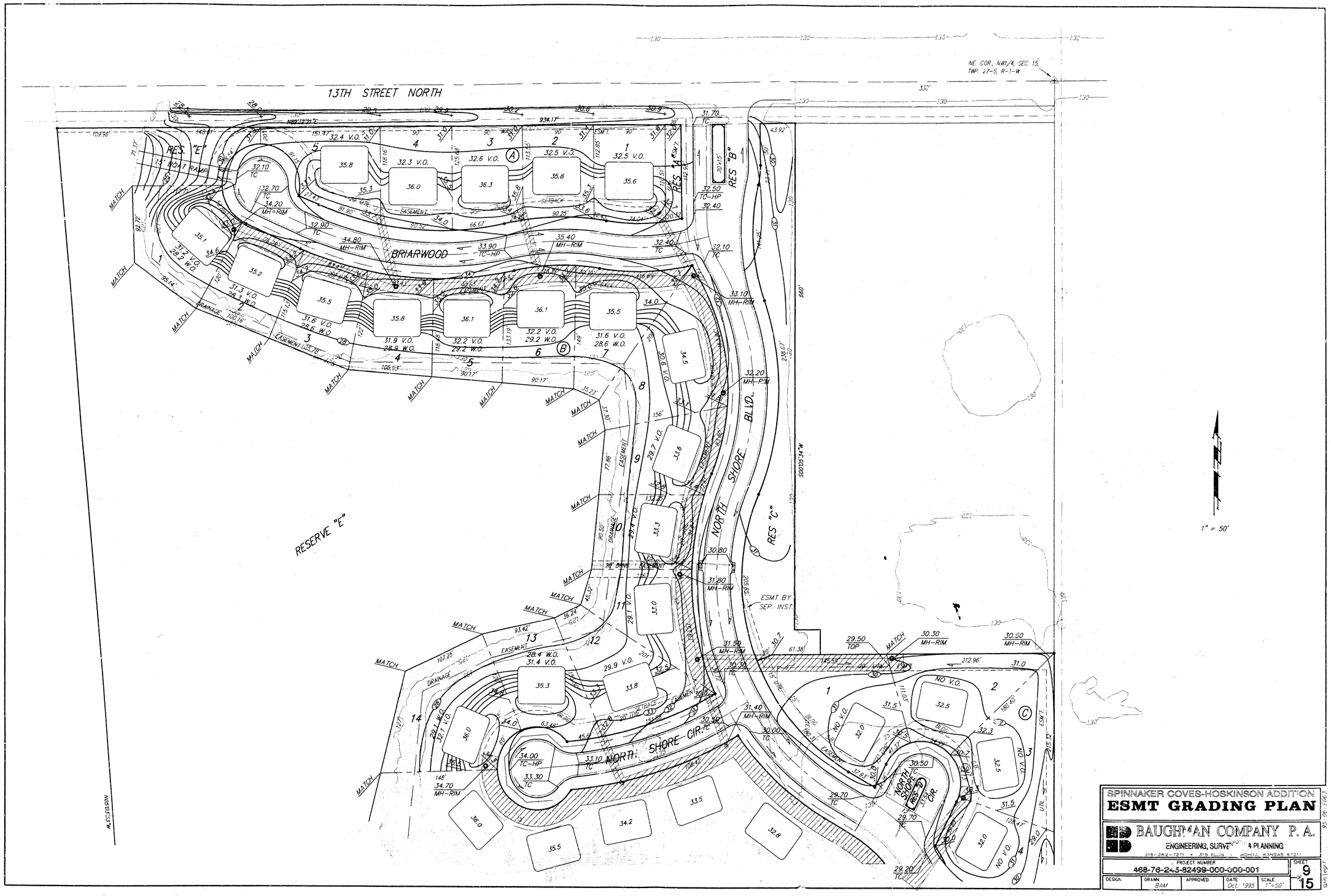


SPINNAKER COVES - HOSKINSON
LINE 4
ADDITION

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

PROJECT NUMBER 468-78-245-82498-000-000-001

DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
B.P.	MSP		Oct. 1995	Noted	8 OF 15



SPINNAKER COVES-HOSKINSON ADDITION

ESMT GRADING PLAN

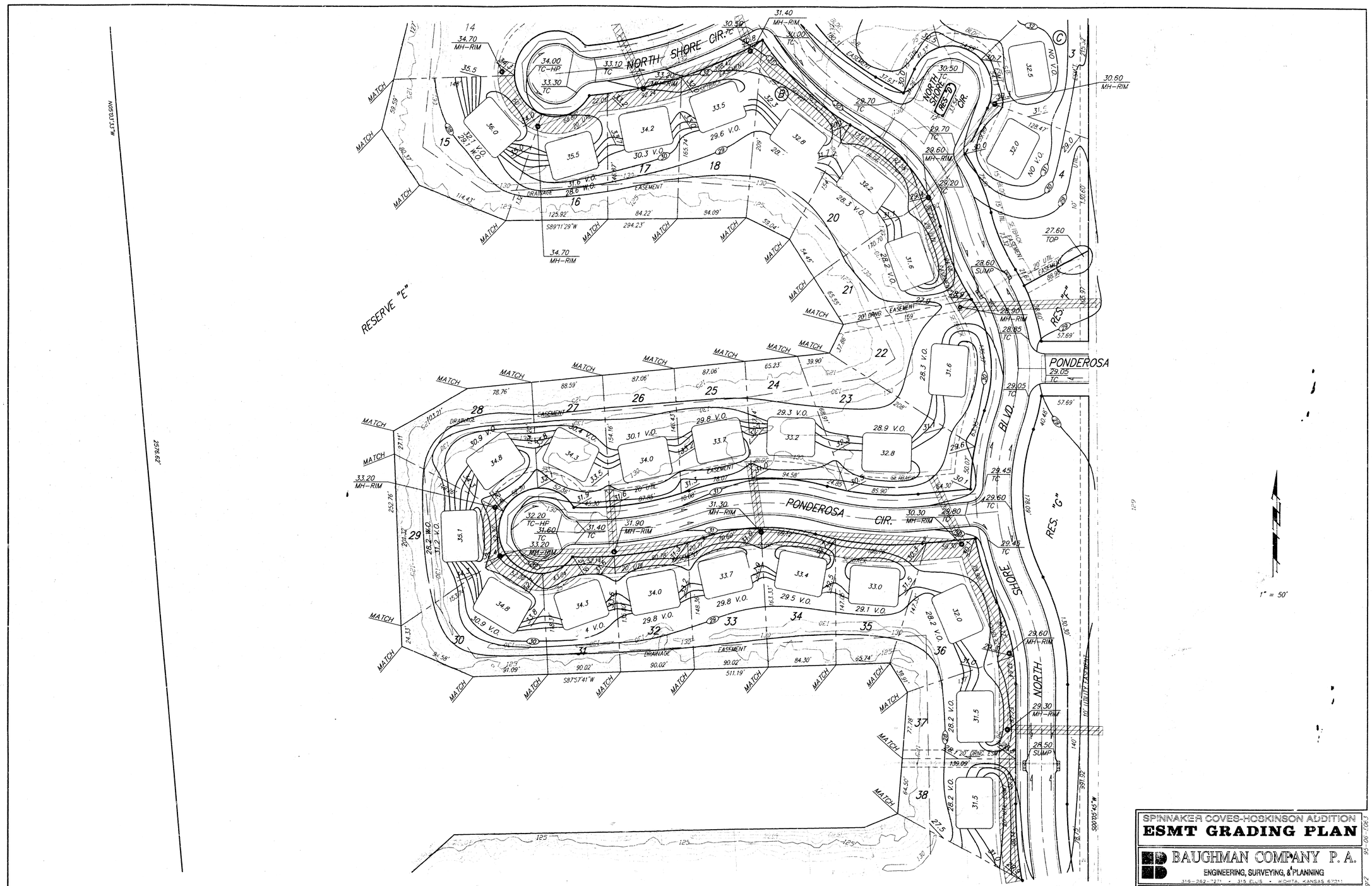
BAUGHMAN COMPANY P. A.

ENGINEERING, SURVEY & PLANNING

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

PROJECT NUMBER	SHEET
468-78-243-82499-000-000-001	9 of 15

DESIGN	DRAWN	APPROVED	DATE	SCALE
	BAM		Oct. 1995	1"=50'



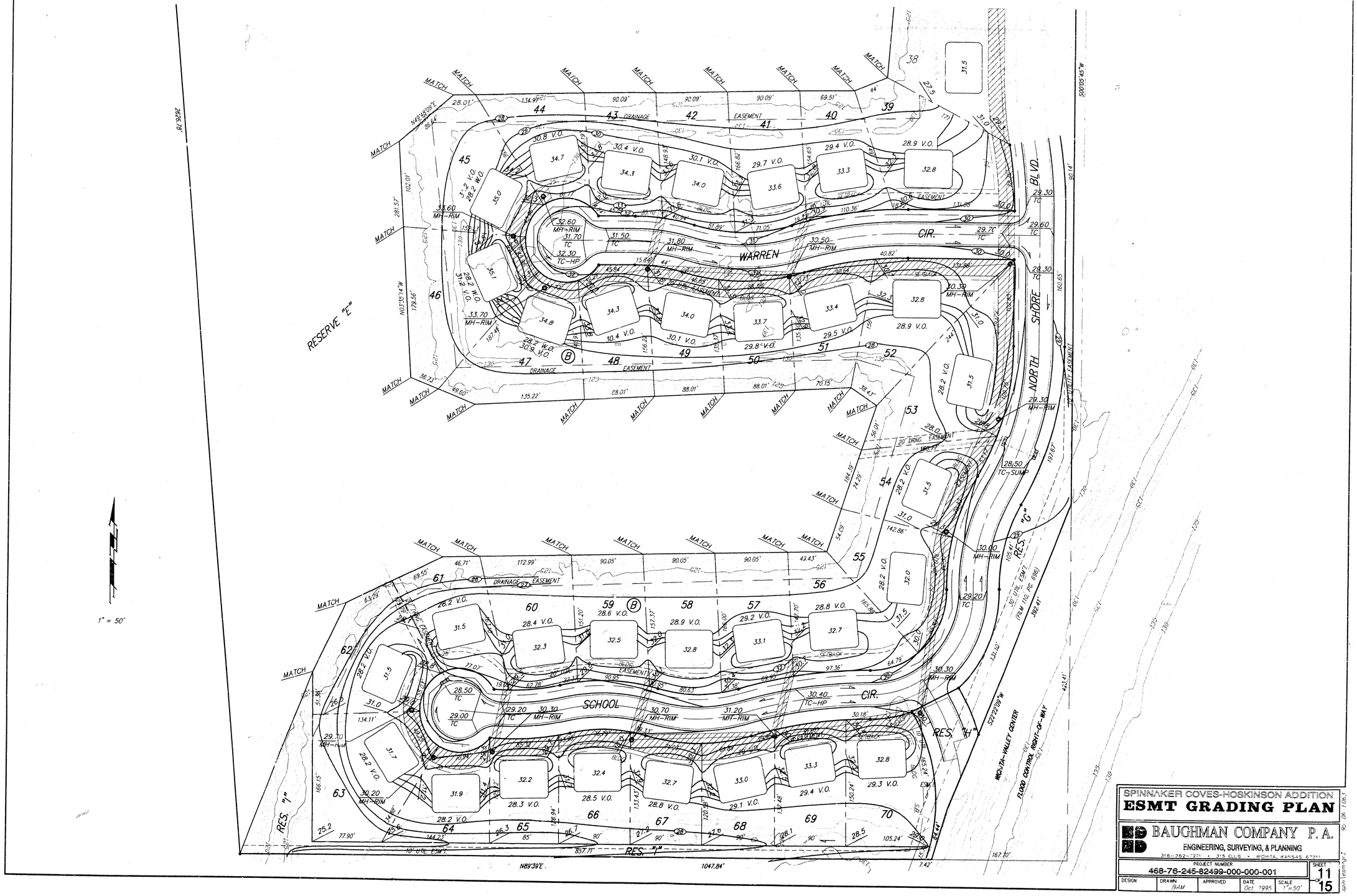
SPINNAKER COVES-HOSKINSON ADDITION

ESMT GRADING PLAN

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

PROJECT NUMBER				SHEET
468-76-245-82499-000-000-001				10 OF 15
DESIGN	DRAWN RAM	APPROVED	DATE Oct. 1995	SCALE 1"=50'

95-06-106.1
sun\esmt\gr2



SPINNAKER COVES-HOSKINSON ADDITION

ESMT GRADING PLAN

BAUGHMAN COMPANY P. A.

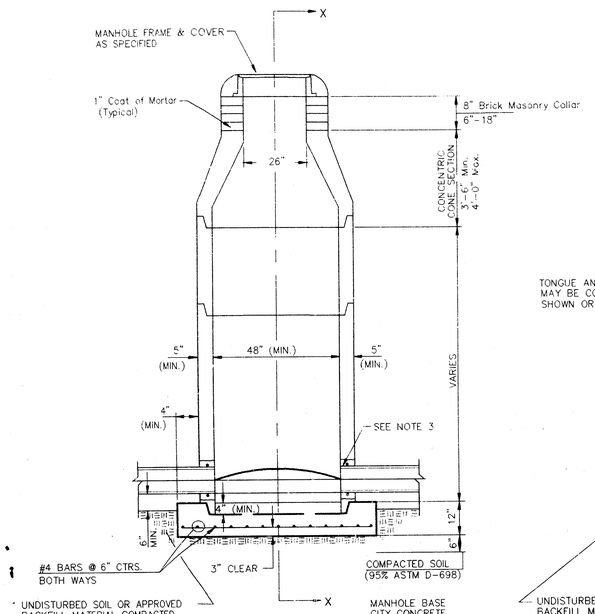
ENGINEERING, SURVEYING, & PLANNING

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

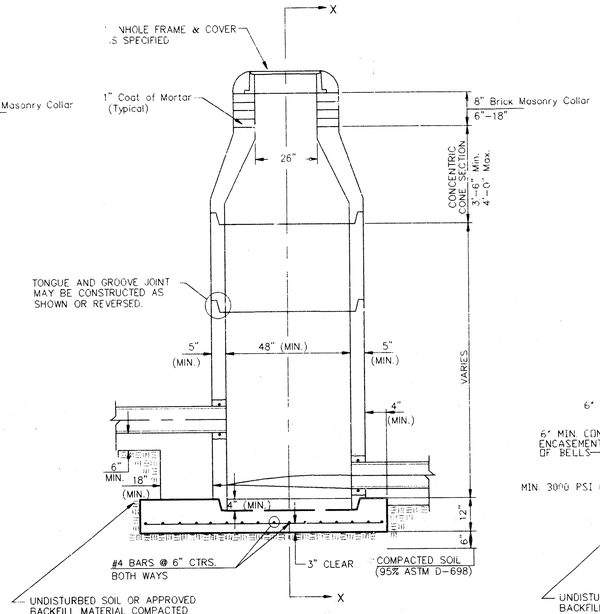
PROJECT NUMBER					SHEET
468-76-245-82499-000-000-001					11
DESIGN	DRAWN	APPROVED	DATE	SCALE	15
	RAM		Oct. 1995	1" = 50'	

spin1esmtng2

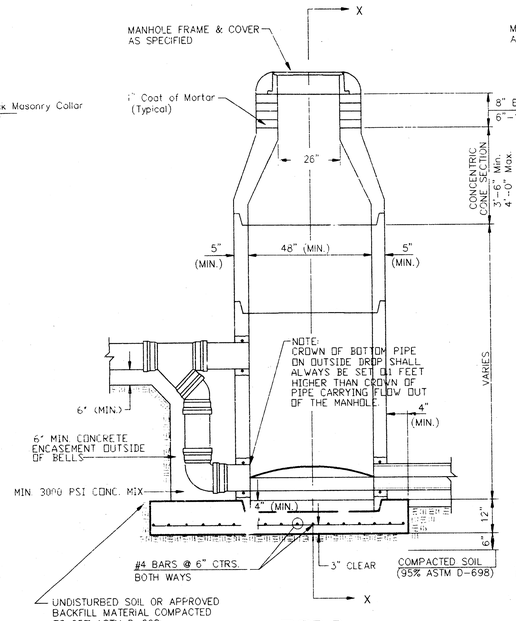
SEWER APPURTENANCES DETAILS



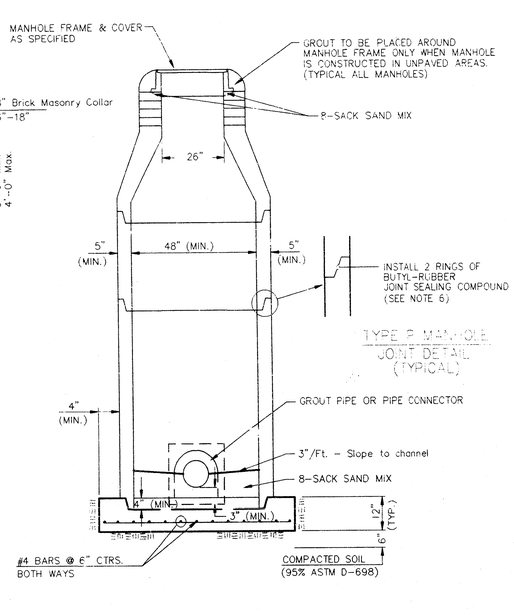
TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE



TYPE P
OUTSIDE DROP MANHOLE

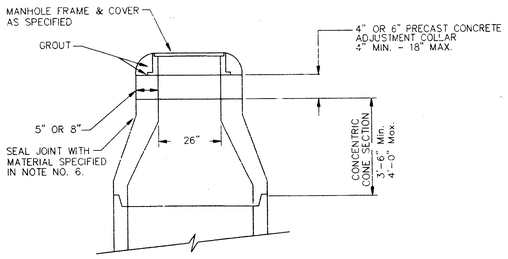


SECTION X
(TYPICAL)

GENERAL NOTES

PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TNEMEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. 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 PAVEMENT 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. 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.
11. 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 AT LEAST 3" 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.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. 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 EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. 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.
14. 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.
15. 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 DRAWING.
16. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.



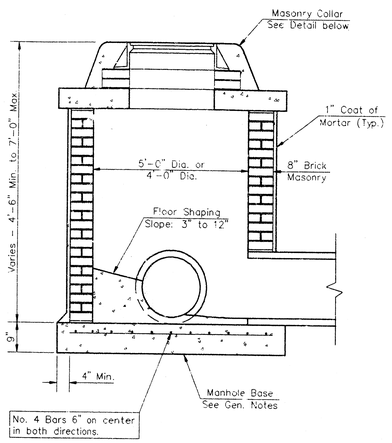
ALTERNATE CONSTRUCTION
IN UNPAVED AREAS

CITY OF WICHITA
STD. MANHOLE DETAILS
& SEWER APPURTENANCES DETAILS

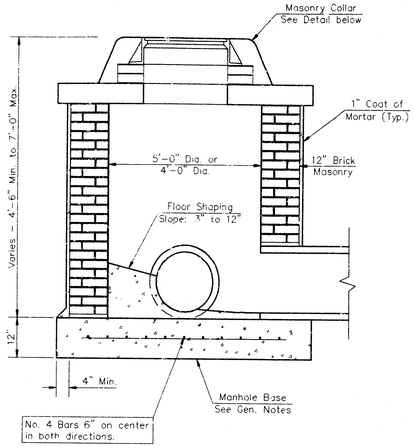
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-2221 • 315 EUS • WICHITA, KANSAS 67211

PROJECT NUMBER				SHEET
468-76-245-82499-000-000-001				12 OF 15
DESIGN: Staff	DRAWN: Staff	APPROVED	DATE: Oct. 1995	SCALE: None

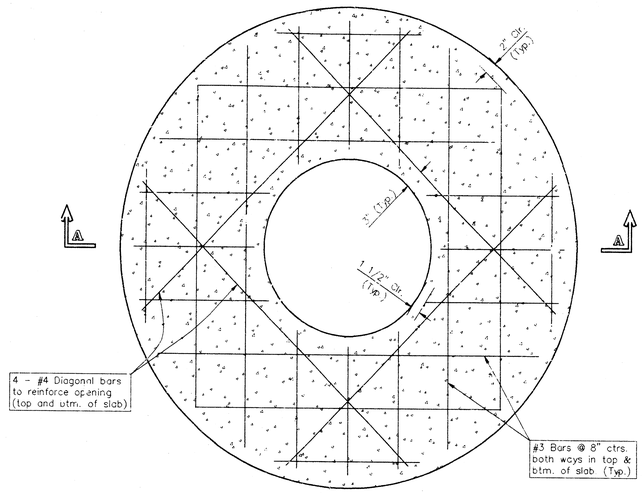
95-08-1083
12mh



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.

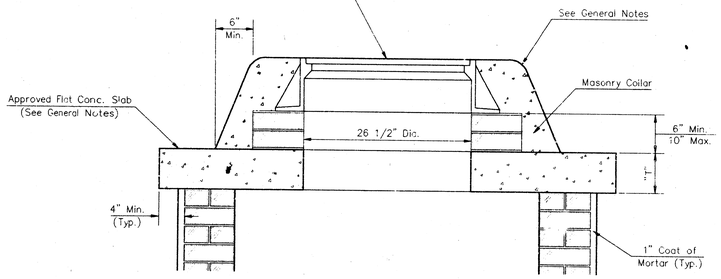
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain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

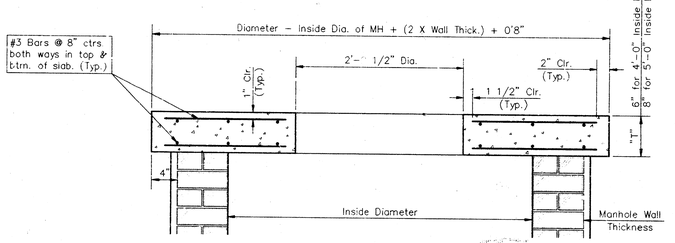
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.

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.

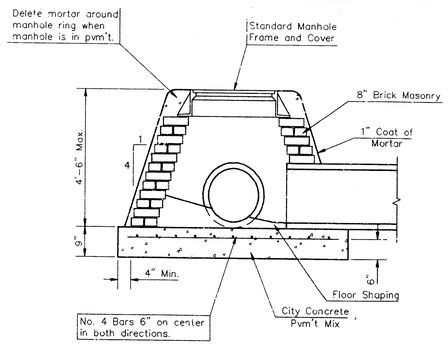


MASONRY COLLAR DETAIL

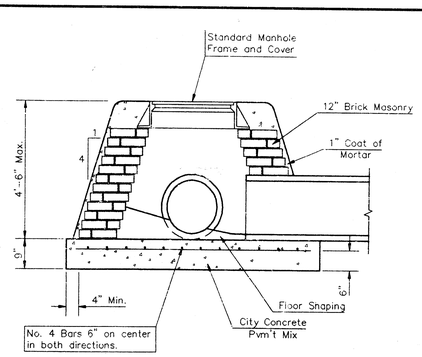


SECTION A-A

FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "A" MANHOLE



SPECIAL SHALLOW TYPE "B" MANHOLE

CITY OF WICHITA, KANSAS

STD. SHALLOW MANHOLES

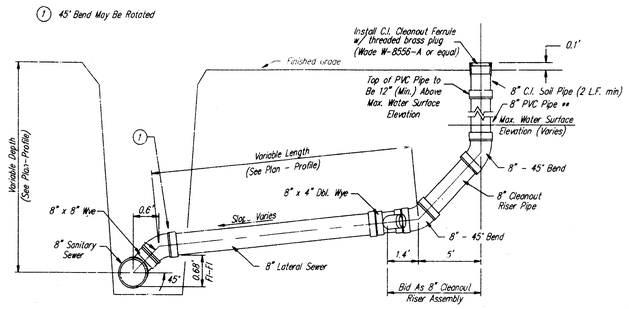
TYPE "A" AND TYPE "B"

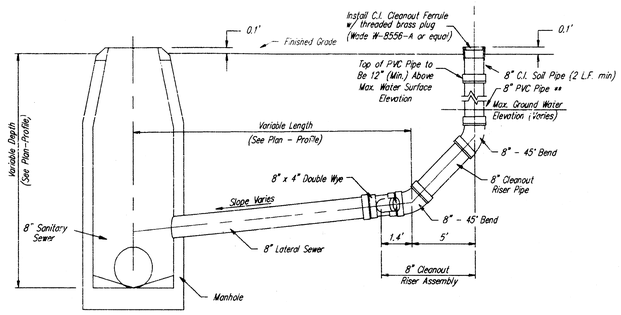
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

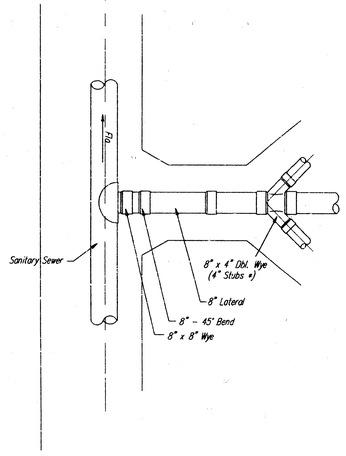
PROJECT NUMBER	SHEET
488-78-245-82499-000-000-001	13 of 15

DESIGN	DRAWN	APPROVED	DATE	SCALE
Staff	Staff		Oct. 1995	None

DETAILS\STDMH

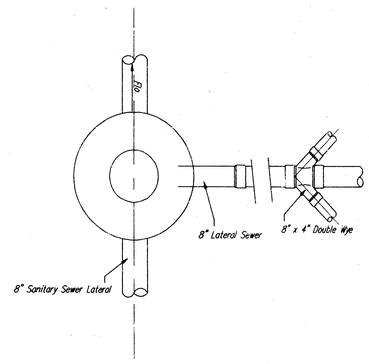






* 4" Branch (each side) To Serve as 4" Stub. Temporary Plug Until Service Connection is Required. Singel Wye to be Used Where Indicated on Plan.

** 8" Lateral to be Air-Tested up to the Top of PVC Pipe, per Standard Specifications.



8" CLEANOUT RISER ASSEMBLY DETAIL
W/ WYE CONNECTION

8" CLEANOUT RISER ASSEMBLY DETAIL
W/ MANHOLE CONNECTION

CLEANOUT RISER ASSEMBLIES

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

REV.

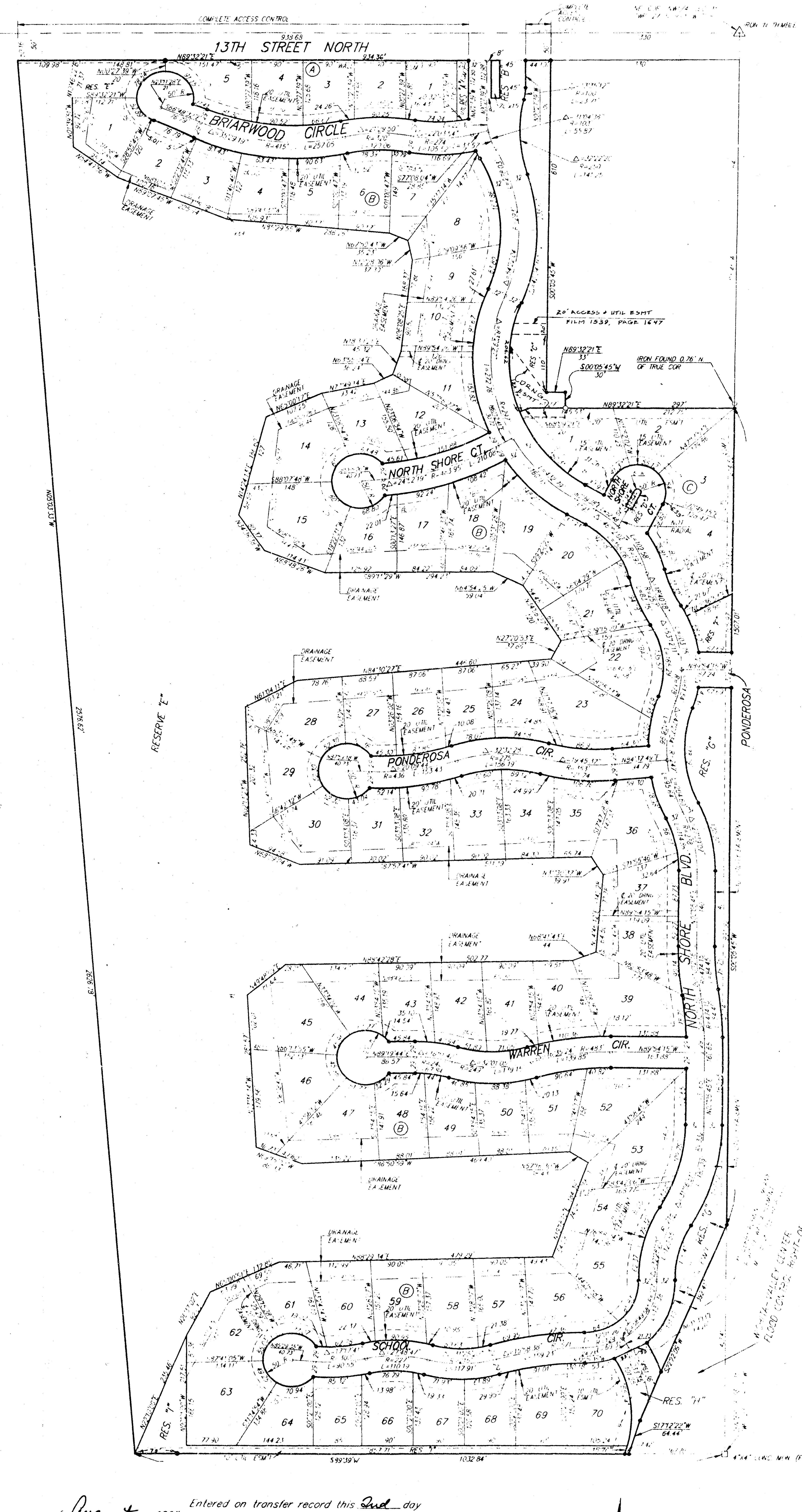
PROJECT NUMBER
468-76-245-82499-000-000-001

SHEET 14 OF 15

DESIGN	DRAWN	APPROVED	DATE	SCALE
Staff	Staff		Oct. 1995	None

SPINNAKER COVES-HOSKINSON ADDIT

WICHITA, SEDGWICK COUNTY, KANSAS



State of Kansas)
Sedgwick County) SS We, Baughman Company, P.A., Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted "SPINNAKER COVES-HOSKINSON ADDITION", Wichita, Sedgwick County, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed, described as follows: Part of the NW1/4 of Sec. 15, Twp. 27-S, R-1-W of the 6th P.M., Sedgwick County, Kansas, described as beginning at a point on the north line of said NW1/4, said point being 330 feet west of the N.E. Corner thereof; thence south parallel with the east line of said NW1/4, 660 feet; thence east parallel with the north line of said NW1/4, 33 feet; thence south parallel with the east line of said NW1/4, 30 feet; thence east parallel with the north line of said NW1/4, 297 feet to the east line of said NW1/4; thence south along the east line of said NW1/4, 1507 feet to the northwesterly right of way line of the Wichita-Valley Center Flood Control as condemned in Case A-31849; thence southwesterly along said Flood Control right-of-way, 456.85 feet to the south line of said NW1/4; thence west along the south line of said NW1/4, 865.14 feet to the easterly line of K.G.&E. easement as filed in Misc. Bk. 528, Pg. 284; thence northerly along the easterly line of said K.G.&E. easement, 2626.78 feet to the north line of said NW1/4; thence east 938.9 feet to point of beginning.

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

Baughman Company, P.A.

Gregory F. Severns 7-11-95 Surveyor

Know all men by these presents that we, the undersigned, have caused the land described in the surveyors certificate to be platted into Lots and Streets to be known as "SPINNAKER COVES-HOSKINSON ADDITION", Wichita, Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The wall easement is hereby granted as indicated for the construction and maintenance of a private screening wall and utility main lines and service lines are allowed to cross this easement. The drainage easements are hereby granted as indicated for drainage purposes. The streets are are hereby dedicated to and for the use of the public. Reserve "B" is hereby reserved for landscaping, entry monuments, streets, and utilities. Reserves "A", "C", "F", and "G" are hereby reserved for landscaping, berms, entry monuments, and utilities as confined to easements. Reserve "D" is hereby reserved for landscaping, street, and utilities. Reserve "E" is hereby reserved for drainage, landscaping, berms, utilities as confined to easements, and walls as confined to easements. Reserve "H" is hereby reserved for landscaping and utilities as confined to easements until such time as a street is developed from the south. At such time, said Reserve "H" shall be dedicated for street purposes to and for the use of the public. Reserve "I" is hereby reserved for landscaping and utilities as confined to easements. Reserves "A", "B", "C", "D", "E", "F", "G", "H", and "I" shall be owned and maintained by the homeowners association for the addition. All abutters rights of access to or from 13th Street North over and across the north line of Reserves "A", "C", and "E" and Lots 1, 2, 3, 4, and 5, Block A, are granted to the City of Wichita, Kansas. The Minimum Building Pad Elevations for lowest opening to the structures shall be as shown on the face of the plat.

Richard D. Hoskinson — Verda M. Hoskinson

State of Kansas)
Sedgwick County) SS The foregoing instrument acknowledged before me, this 11th day of July, 1995, by Richard D. Hoskinson and Verda M. Hoskinson, husband and wife.

Mildred B. Franz Notary Public

My App't. Exp. 2-13-99

This plat of "SPINNAKER COVES-HOSKINSON ADDITION", Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.
Dated this 15th day of June, 1995
Wichita-Sedgwick County Metropolitan Area Planning Commission

John W. McKay, Jr. Chairman

Marvin S. Krout Secretary

Entered on transfer record this 2nd day of August, 1995

Susan L. Crockett-Spoon County Clerk

State of Kansas)
Sedgwick County) SS This is to certify that this plat has been filed for record in the office of the Register of Deeds, this 2nd day of August, 1995, at 2:30 o'clock P.M. and is duly recorded.

Pat Kettler Register of Deeds

Ed Resa Deputy

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this 25th day of July, 1995

Bob Knight Mayor

Pat Burnett DEPUTY City Clerk

#146 8131

20.00

1"=100'

- ● = #4 REBAR W/ "BAUGHMAN" CAP (SET)
- ○ = IRON FOUND
- ◻ = 4"x4" CONC. MON. (FOUND)
- △ = IRON IN THIMBLE (FOUND)