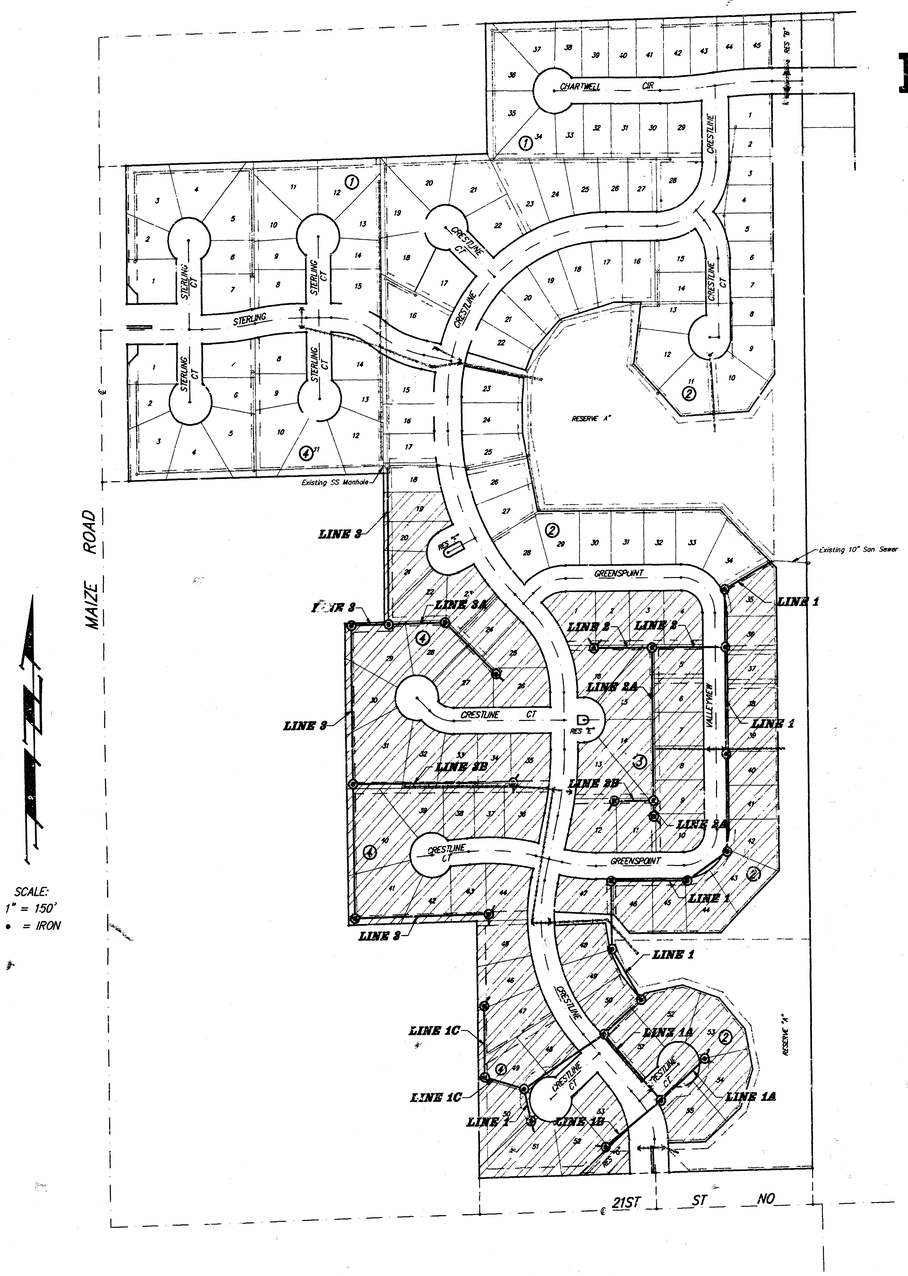

SCALE:
1" = 150'
• = IRON

LATERAL 101 - WESTLINK SEWER

Serving

CHADSWORTH 2nd ADDITION
PHASE II

Project No.

468-76-245-82175-000-000-001

Index Code

741702

CITY OF WICHITA, KANSAS
Michael E. Lindebak City Engineer

General Notes

1. 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.
2. The Bid Item " Right of Way Clearing and Preparation" shall include the removal of all trees, stumps, and clearing of any other items necessary for construction of this Sanitary Sewer Project.
3. 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.
4. 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.
5. 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.
6. 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.
7. Contractor shall keep all excess dirt excavation on site, location to be determined by J.W. Russell 722-2417.

Booked 4-14-94 JKB As Per Plan

Index

Benchmarks:

BENCH MARK #1: R.R. Spike in Power Pole (East Side) 140.5' South and 20' West of the N.W. Corner Lot 1, Block 4, Chadsworth 2nd Addition, Elev. = 164.01

BENCH MARK #2: R.R. Spike in Power Pole (East Side) 45' South and 1' West of S.W. Corner of Lot 41, Block 4, Chadsworth 2nd Addition, Elev. = 165.17

BENCH MARK #3: Square Cut in Top of Curb Adjacent to N.E. Corner of Lot 22, Block 1, Chadsworth Addition Elevation = 164.82

BENCH MARK #4: Cross Cut in Top of Headwall at Center Line of Double 3'x5' RCBC, 251' East and 48' South of S.E. Corner of Chadsworth 2nd Addn. Elevation = 159.14

N. BRENT WOOTEN LICENSED 9470 KANSAS PROFESSIONAL ENGINEER

4-14-94

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

CHADSWORTH ADDITION

Scale: 1" = 40' Plan
1" = 5' Profile
o = Iron

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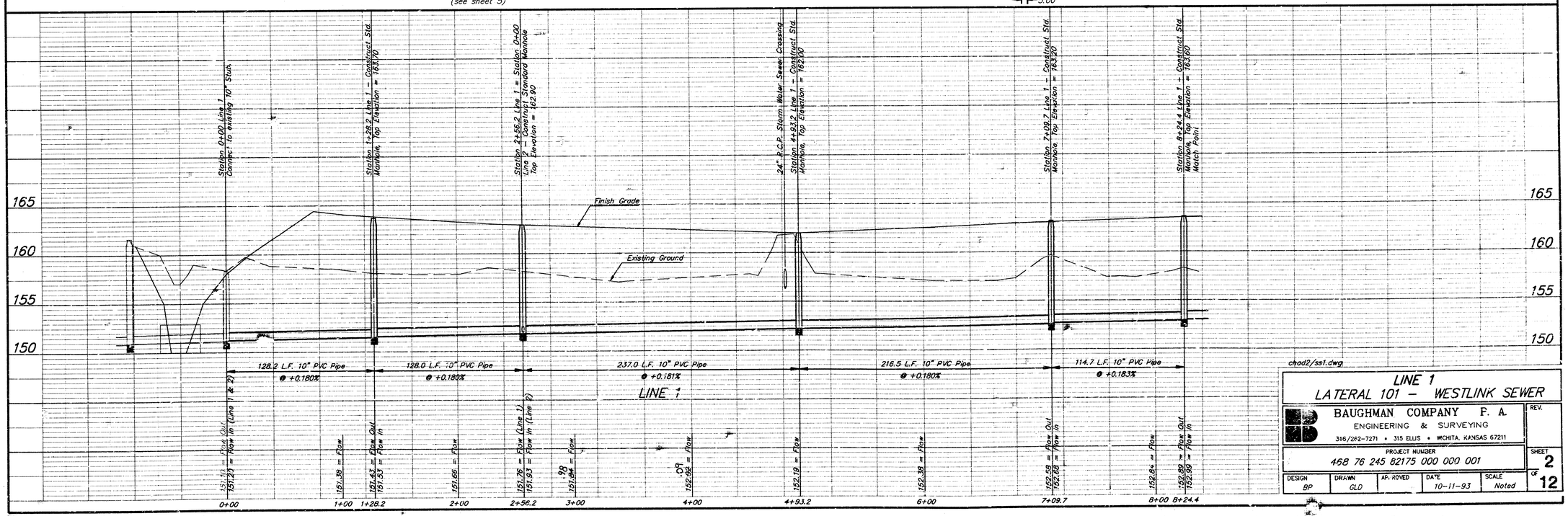
Approx. Fill Required For Easement Grading is 14,000 c.y.

LINE 2 (see sheet 5)

Caution: 24" RCP Crossing



chad2/ss1.dwg

LINE 1
LATERAL 101 – WESTLINK SEWER

BAUGHMAN COMPANY P. A.
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REV.

PROJECT NUMBER
468 76 245 82175 000 000 001

SHEET 2 OF 12

DESIGN	DRAWN	APPROVED	DATE	SCALE
BP	GLD		10-11-93	Noted

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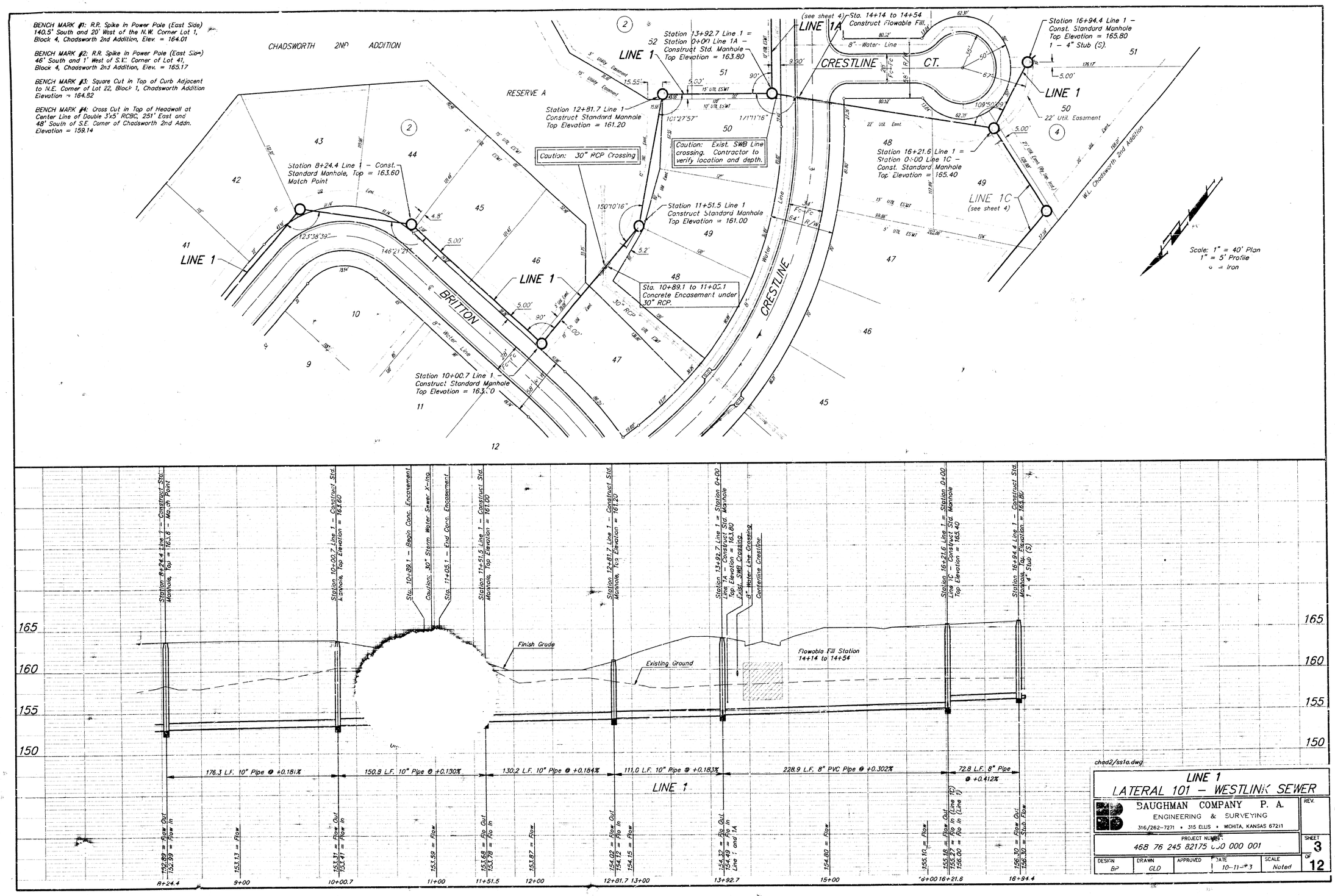

chad2/ss1a.dwg

LINE 1
LATERAL 101 – WESTLINK SEWER

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

PROJECT NUMBER: 468 76 245 82175 000 000 001

DESIGN	DRAWN	APPROVED	DATE	SCALE
BP	GLD		10-11-93	Noted

REV.

SHEET 3 OF 12

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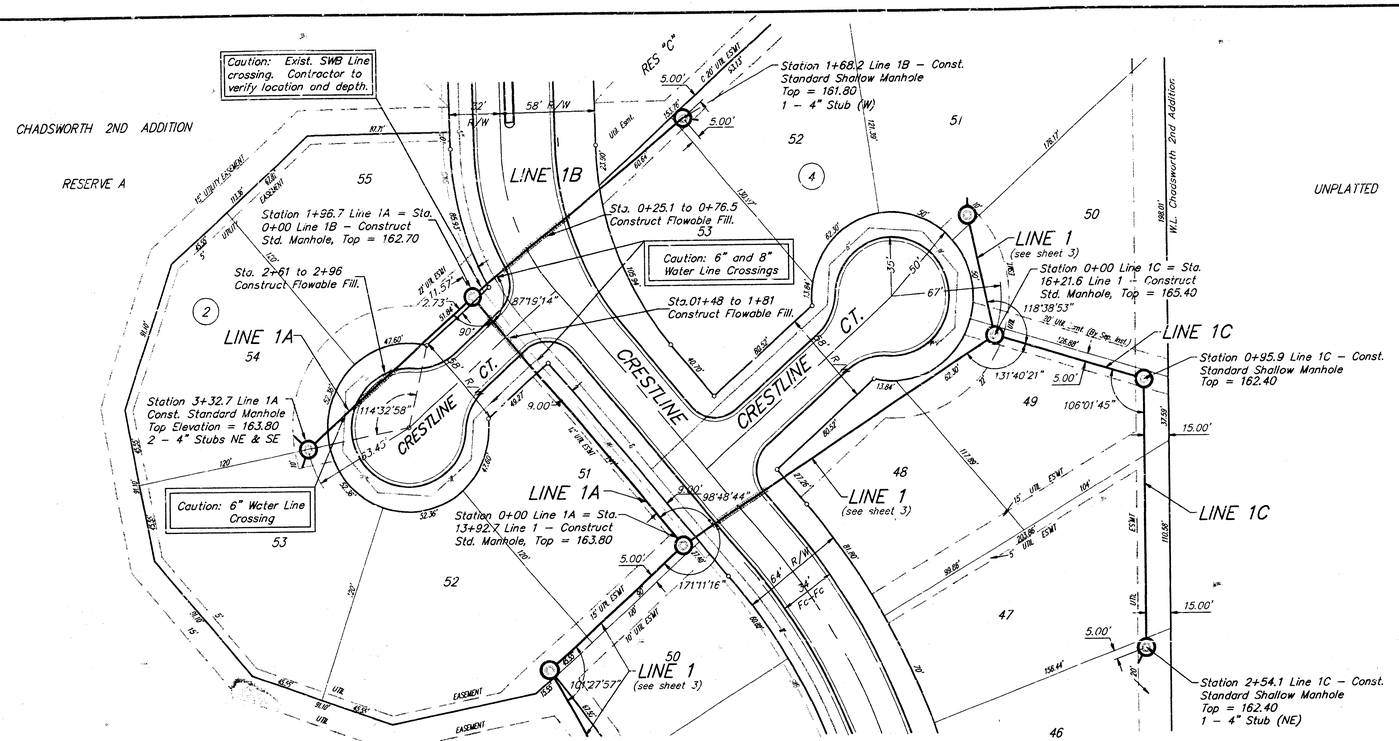

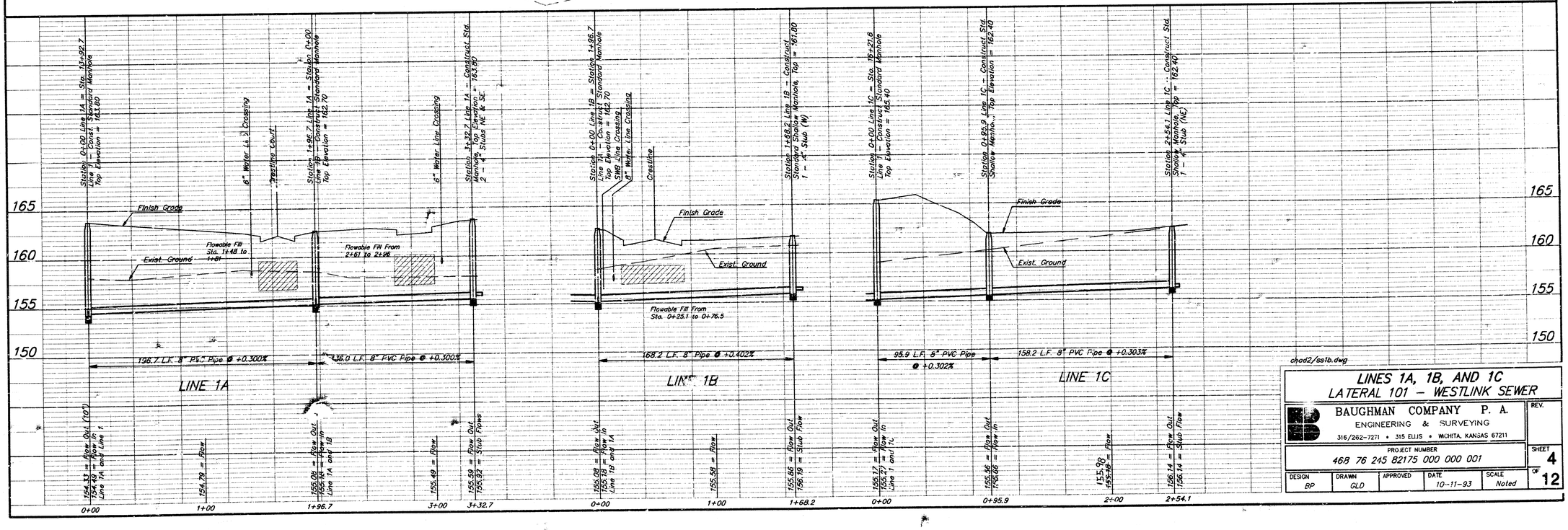

chad2/ss1b.dwg

LINES 1A, 1B, AND 1C
LATERAL 101 – WESTLINK SEWER

BAUGHMAN COMPANY P. A.
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PROJECT NUMBER 468 76 245 82175 000 000 001

REV.

SHEET 4 OF 12

DESIGN	DRAWN	APPROVED	DATE	SCALE
BP	GLD		10-11-93	Noted

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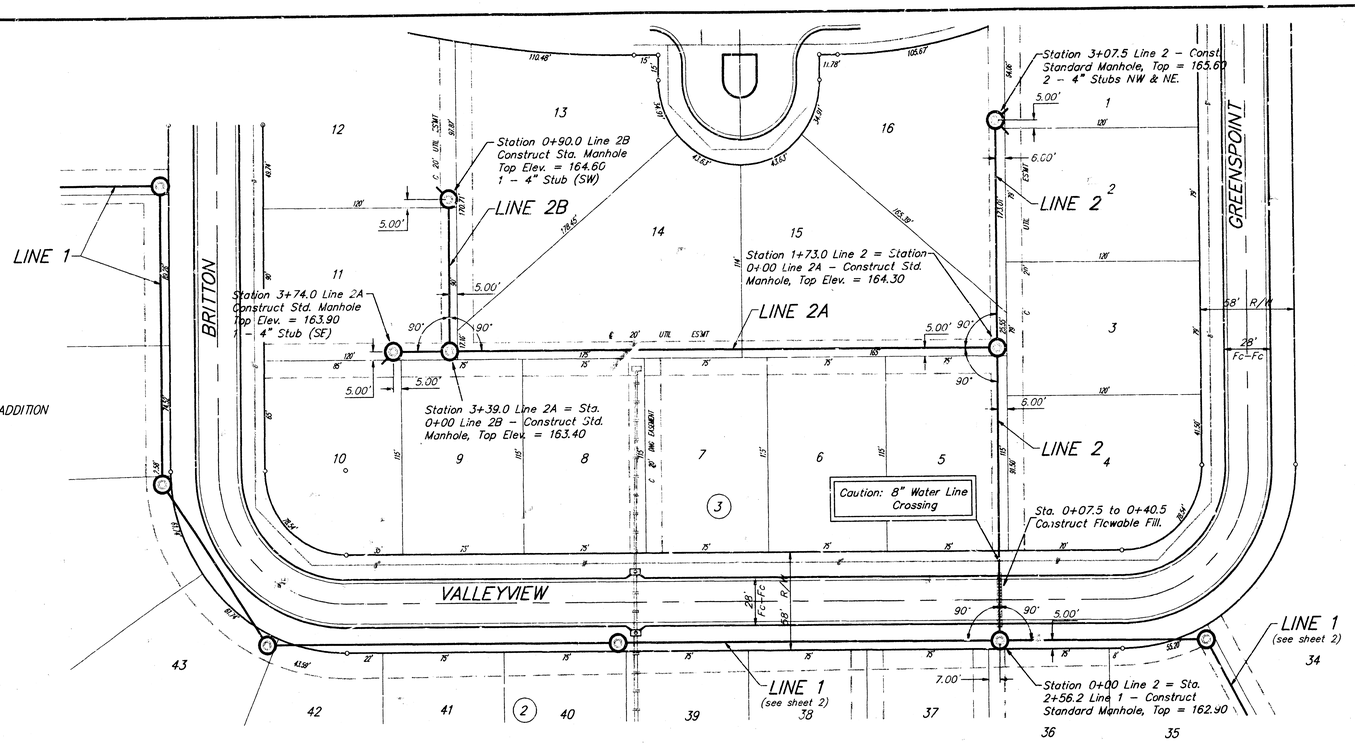
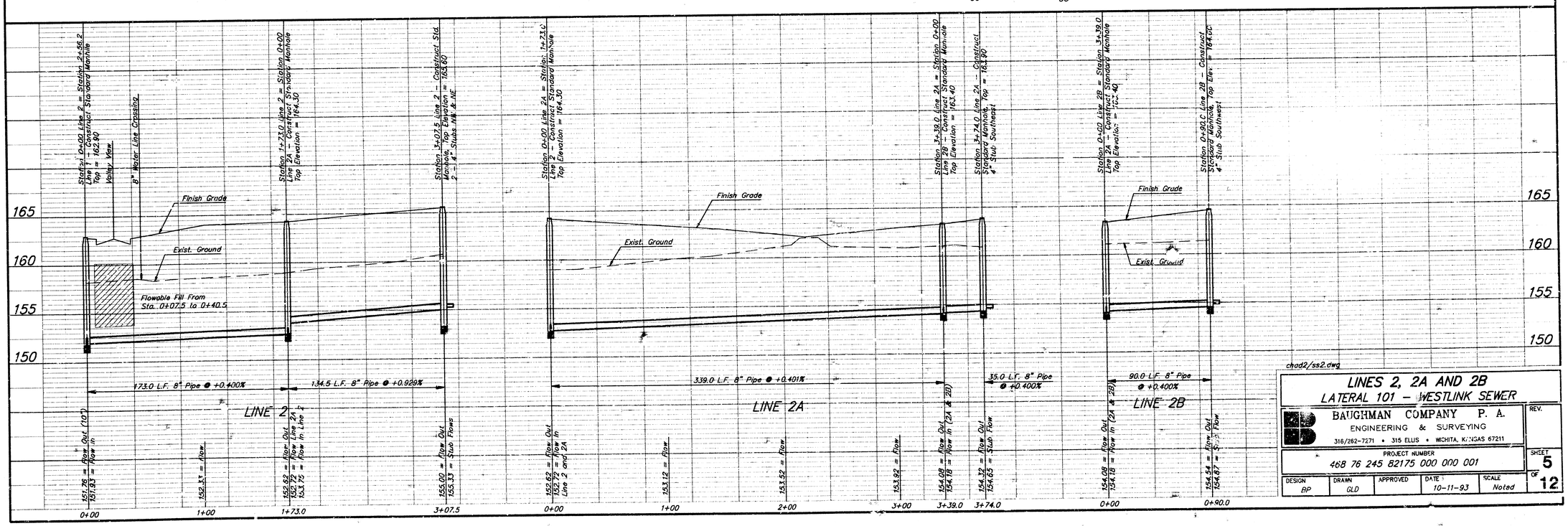


Scale: 1" = 40' Plan
1" = 5' Profile
o = Iron



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LINES 2, 2A AND 2B
LATERAL 101 - WESTLINK SEWER

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

REV.

PROJECT NUMBER
468 76 245 82175 000 000 001

SHEET 5 OF 12

DESIGN	DRAWN	APPROVED	DATE	SCALE
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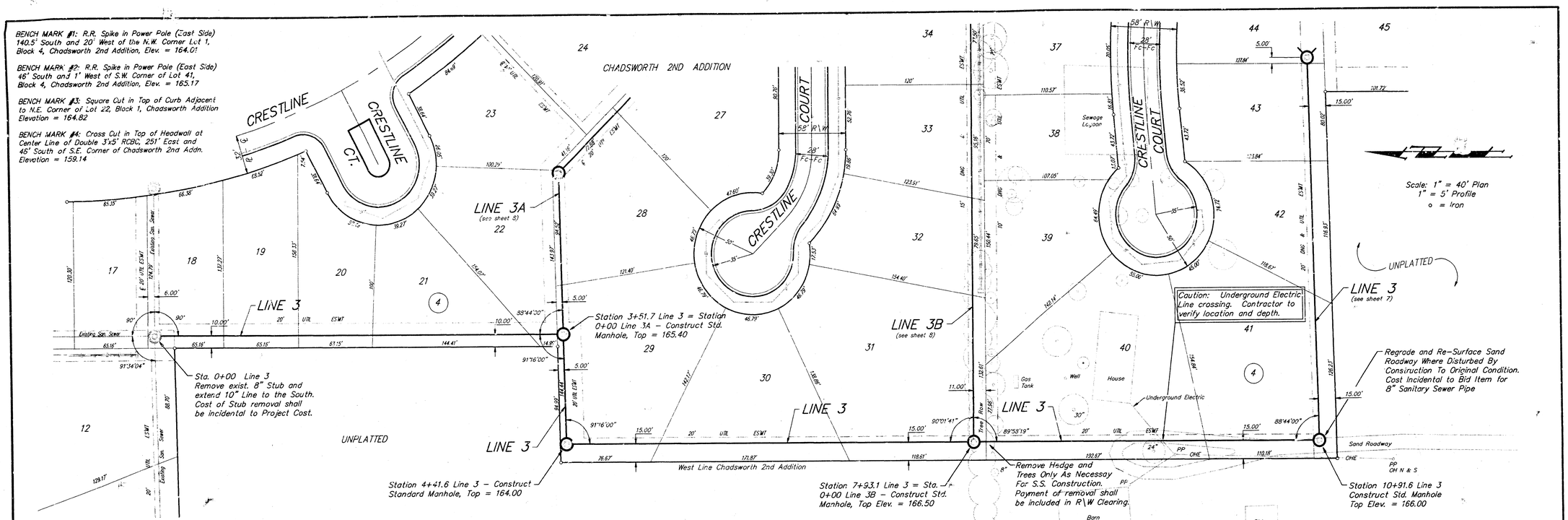

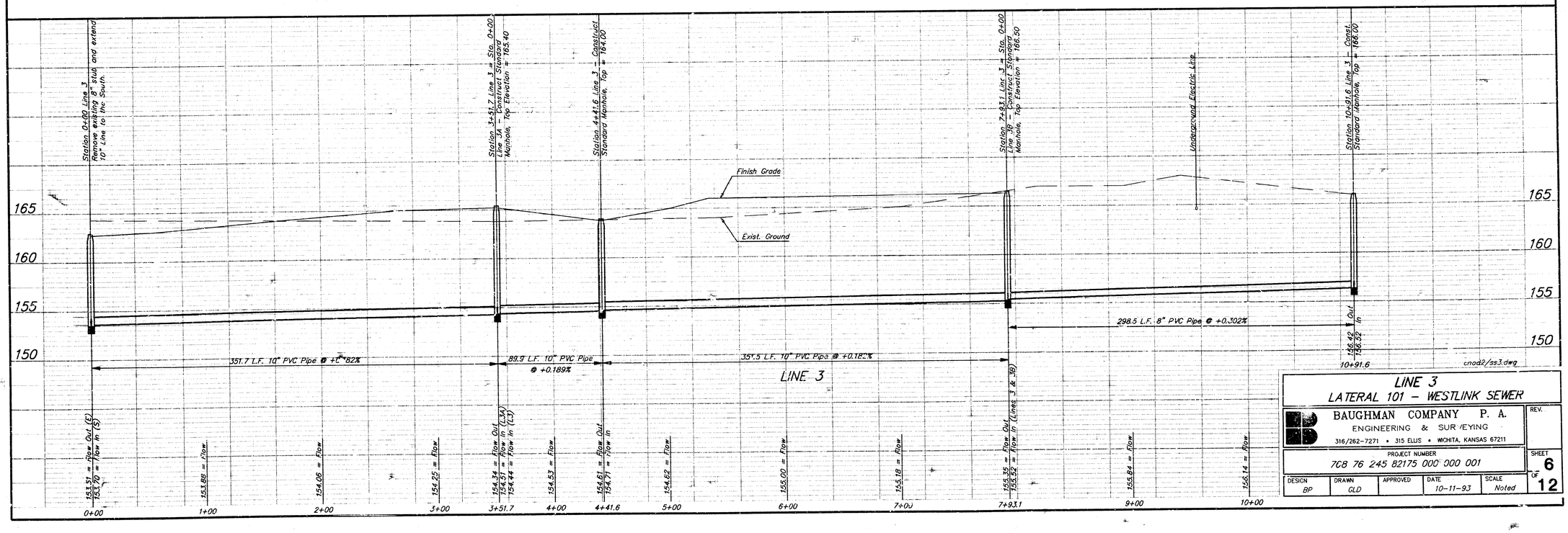

LINE 3
LATERAL 101 – WESTLINK SEWER

BAUGHMAN COMPANY P. A.
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PROJECT NUMBER 768 76 245 82175 000 000 001

REV.

SHEET 6 OF 12

DESIGN	DRAWN	APPROVED	DATE	SCALE
BP	GLD		10-11-93	Noted

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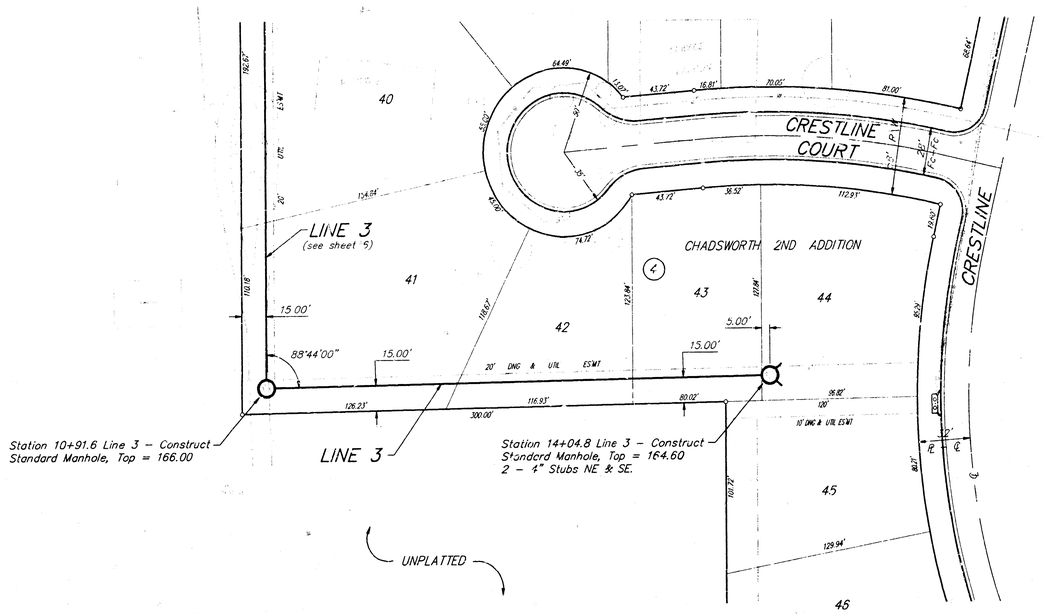
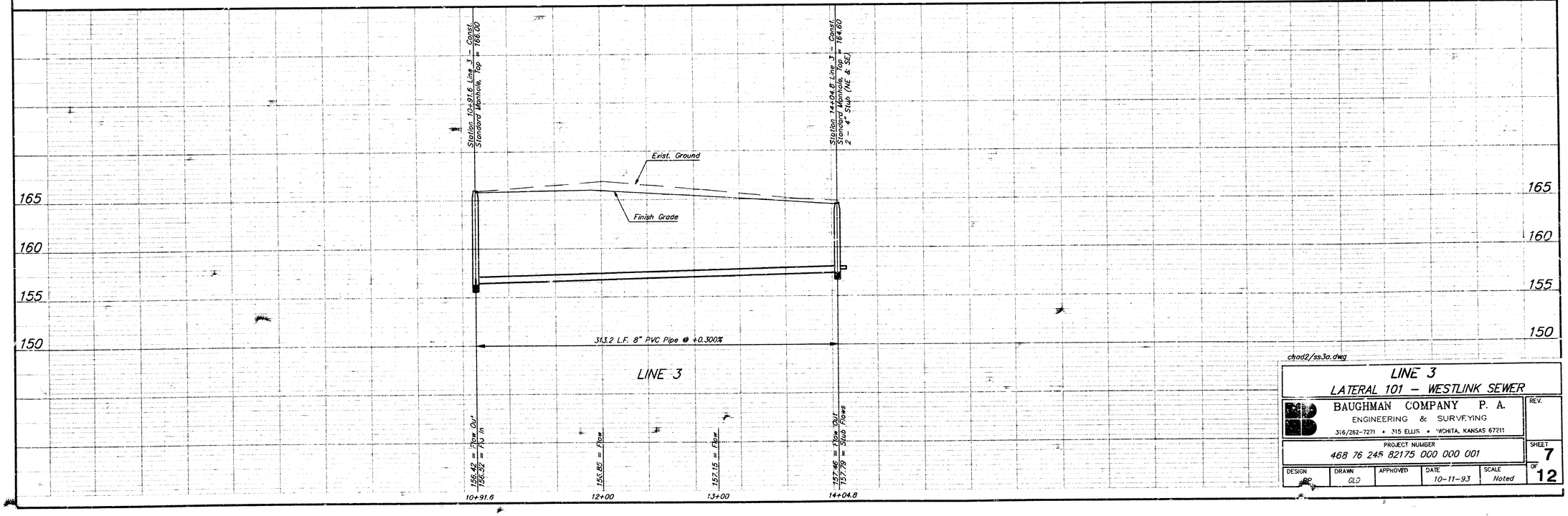


Scale: 1" = 40' Plan
1" = 5' Profile
o = Iron



chad2/ss3a.dwg

LINE 3
LATERAL 101 – WESTLINK SEWER

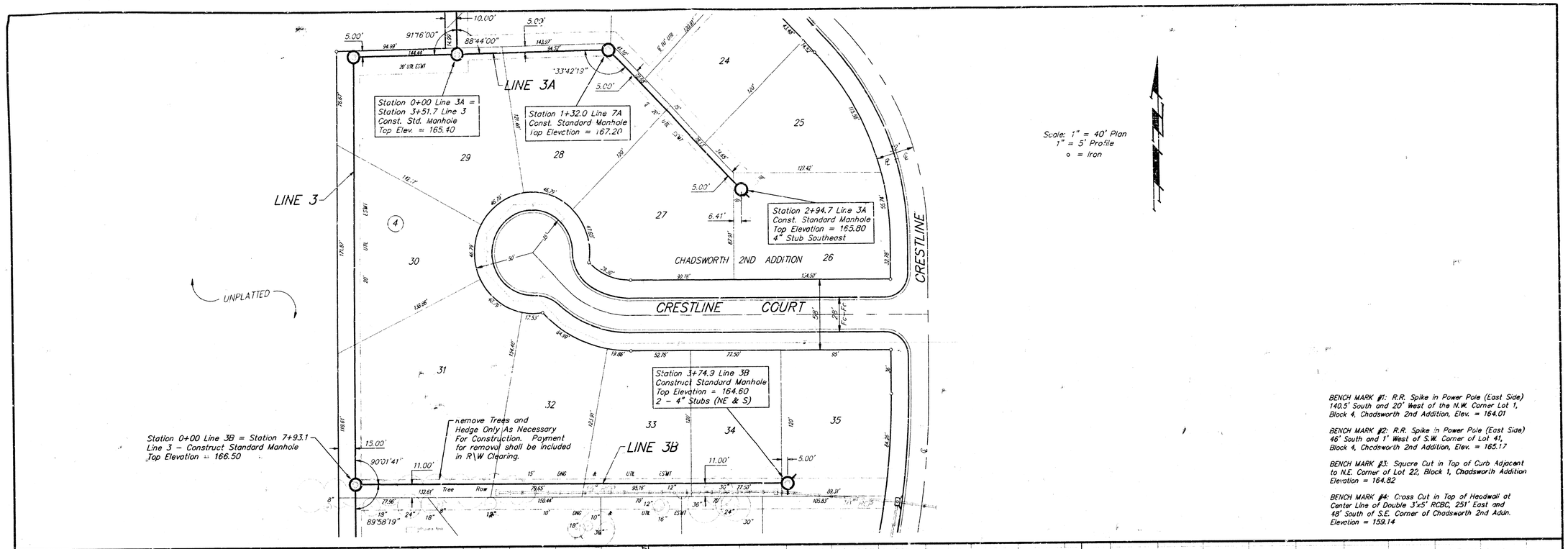
BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

REV.

PROJECT NUMBER
468 76 245 82175 000 000 001

SHEET 7 OF 12

DESIGN	DRAWN	APPROVED	DATE	SCALE
BP	GLD		10-11-93	Noted



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LINE 3A AND 3B
LATERAL 101 - WESTLINK SEWER

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

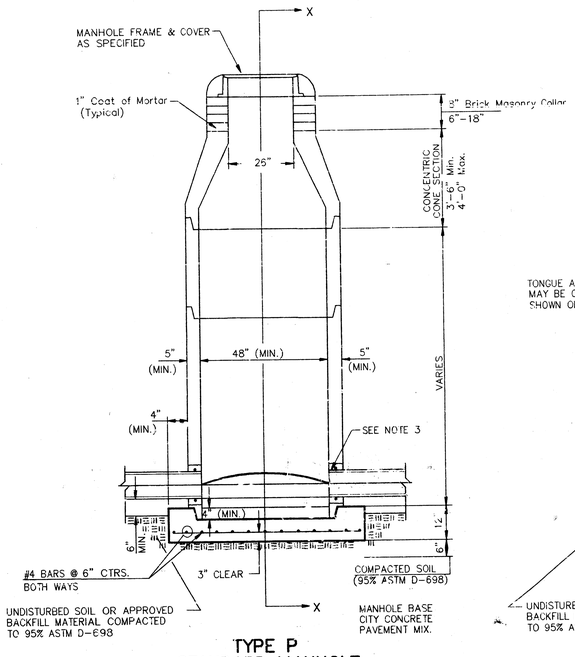
PROJECT NUMBER 468 76 245 82175 000 000 00

DESIGN	DRAWN	APPROVED	DATE	SCALE
BP	GLD		10-11-93	Note

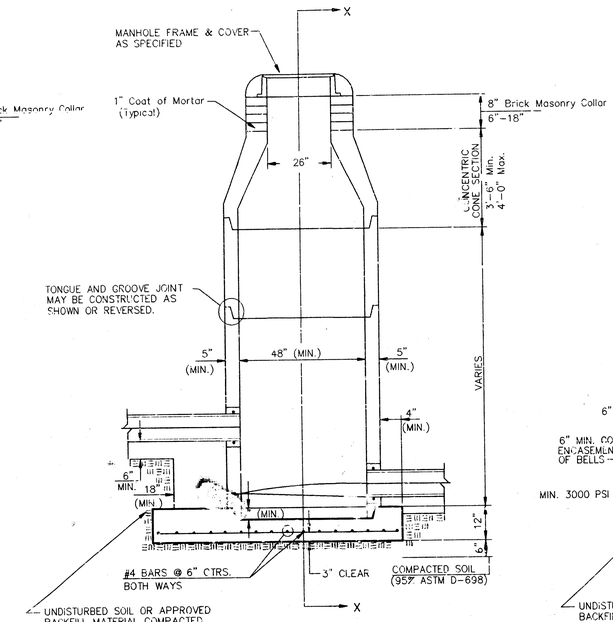
REV.

SHEET 8 OF 12

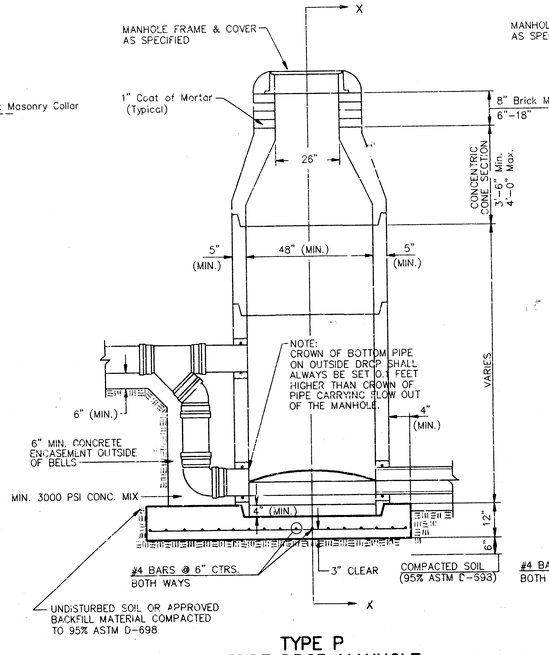
SEWER APPURTENANCES DETAILS



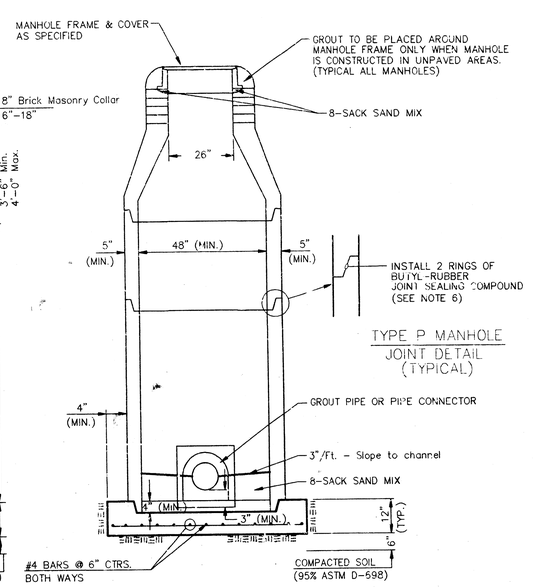
TYPE P STANDARD MANHOLE



TYPE P INSIDE DROP MANHOLE



TYPE P OUTSIDE DROP MANHOLE



TYPE P MANHOLE
JOINT DETAIL
(TYPICAL)

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.

CITY OF WICHITA, KANSAS
STANDARD MANHOLE DETAILS
SEWER APPURTENANCES DETAILS

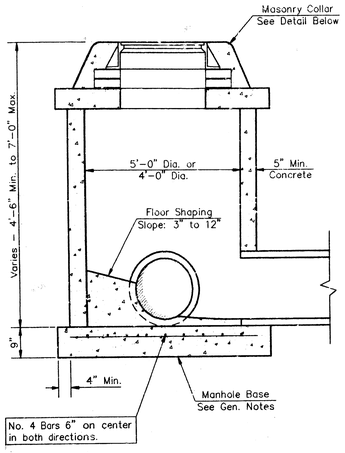
BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

REV.

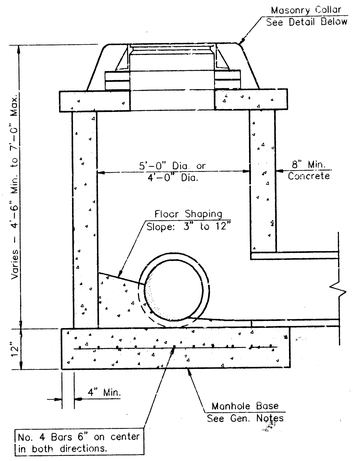
PROJECT NUMBER
648 76 245 82175 000 000 001

SHEET 9 OF 12

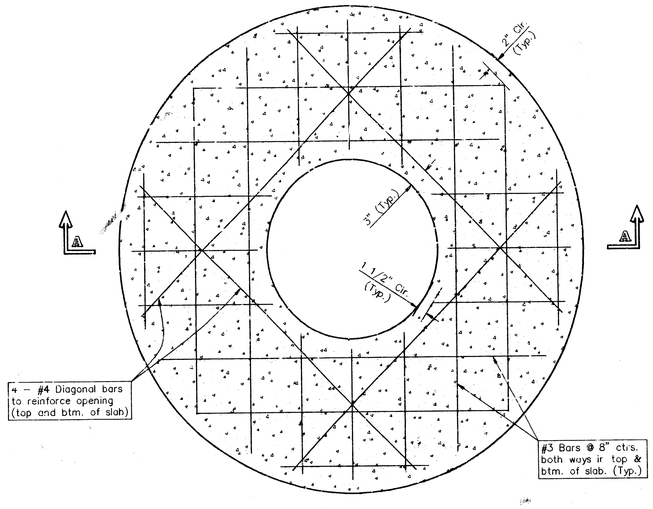
DESIGN	DRAWN	APPROVED	DATE	SCALE
			10-11-93	NONE



SHALLOW TYPE "P" MANHOLE



SHALLOW TYPE "C" 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 witnout 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.

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.

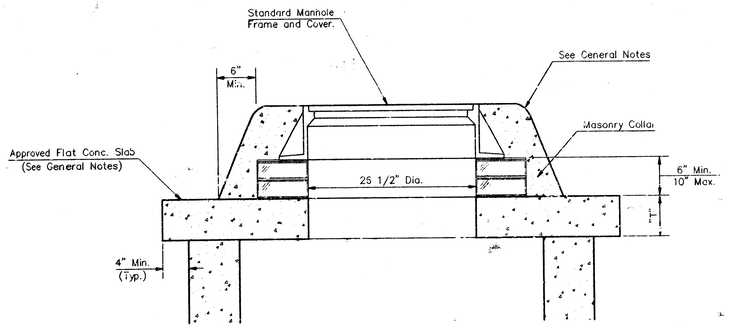
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain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

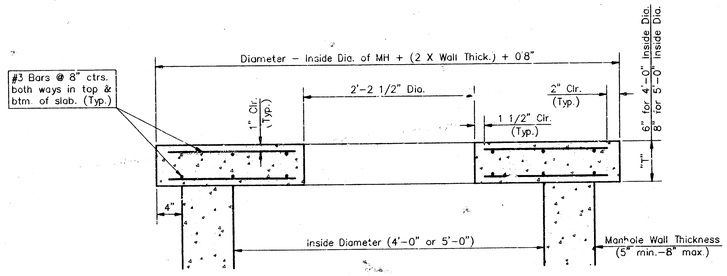
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.

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

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



MASONRY COLLAR DETAIL



SECTION A–A

FLAT CONCRETE SLAB DETAILS

CITY OF WICHITA, KANSAS

STANDARD SHALLOW MANHOLES

TYPE 'P' AND TYPE 'C'

PROJECT NUMBER 468 78 245 82175 000 000 001

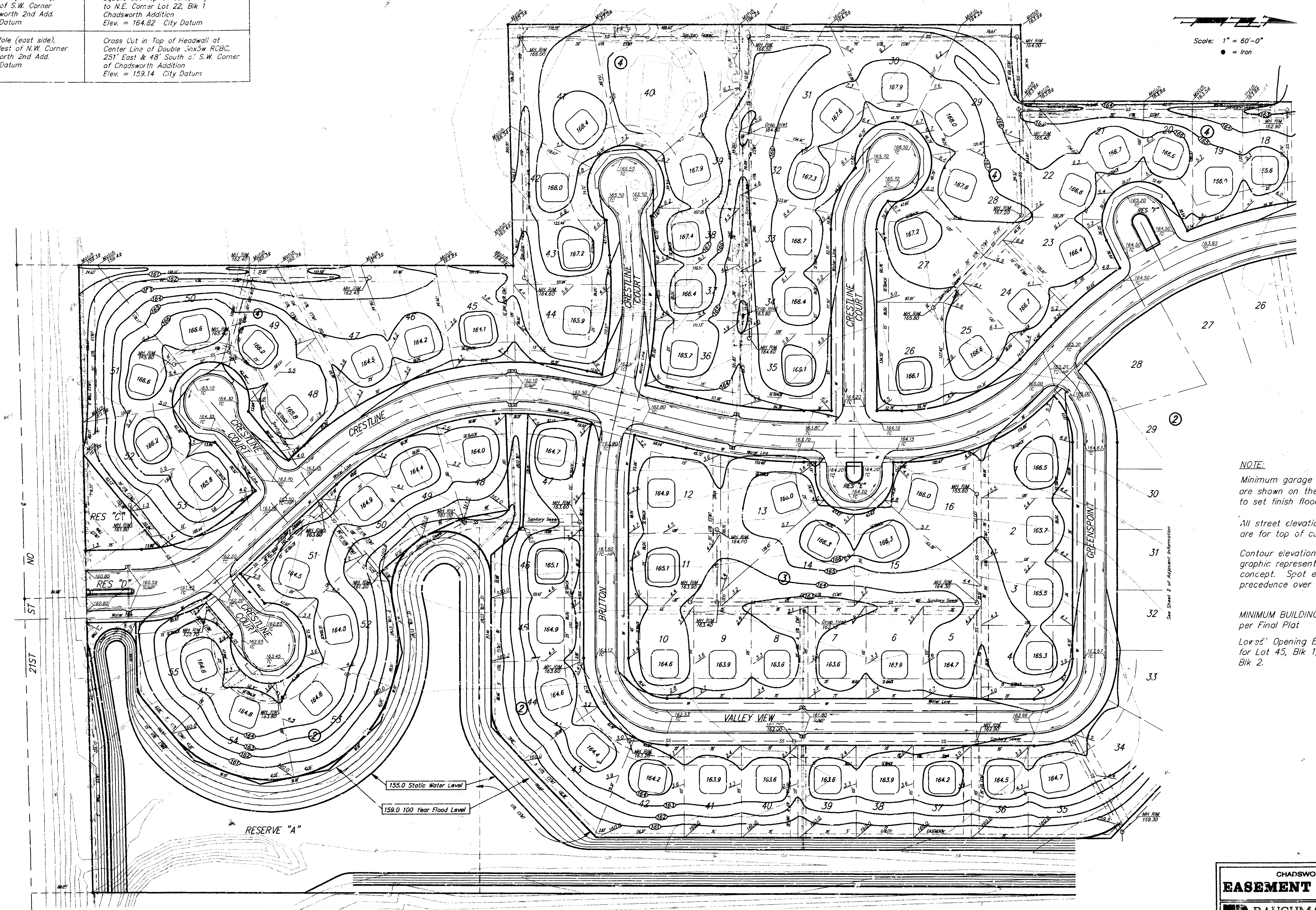
SHEET 10 OF 12

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

DETAIL\SHLWMH2.DWG

BENCH MARKS:

R.R. Spike in Power Pole (east side), 46' South & 1' West of S.W. Corner Lot 41, Blk 4 Chadsworth 2nd Add. Elev. = 165.17 City Datum	Square Cut Top of Curb, Adjacent to N.E. Corner Lot 22, Blk 1 Chadsworth Addition Elev. = 164.82 City Datum
R.R. Spike in Power Pole (east side), 140.5' South & 20' West of N.W. Corner Lot 1, Blk 4 Chadsworth 2nd Add. Elev. = 164.01 City Datum	Cross Cut in Top of Headwall at Center Line of Double 3nx5w RCBC, 251' East & 48' South of S.W. Corner of Chadsworth Addition Elev. = 159.14 City Datum



NOTE:

Minimum garage floor elevations are shown on the plans. Contractor to set finish floor elevation.

All street elevations shown on plans are for top of curb (full height).

Contour elevations shown are for graphic representation of drainage concept. Spot elevations shall take precedence over contour lines.

MINIMUM BUILDING PAD ELEVATIONS per Final Plat

Lowest Opening Elevation = 159.50 for Lot 45, Blk 1, and Lots 1 thru 55, Blk 2.

CHADSWORTH 2ND ADDITION

EASEMENT GRADING PLAN

BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 715 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER					SHEET
488 76 245 82175 000 000 001					11 OF 12
DESIGN GLD	DRAWN GLD	UTIL. CHECK'D	DATE 10-09-93	SCALE Noted	

93-04-E515

CHAD2\EASEMENT

CHADSWORTH 2ND ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

1" = 100
• = PIN

MINIMUM PAD ELEVATION
FOR LOWEST OPENING
ELEV = 159.5 CITY DATUM
1346.9 MSL
FOR LOT 45, BLK. 1
AND LOTS 1 THRU 55, BLK 2

DETAIL

DETAIL

DETAIL