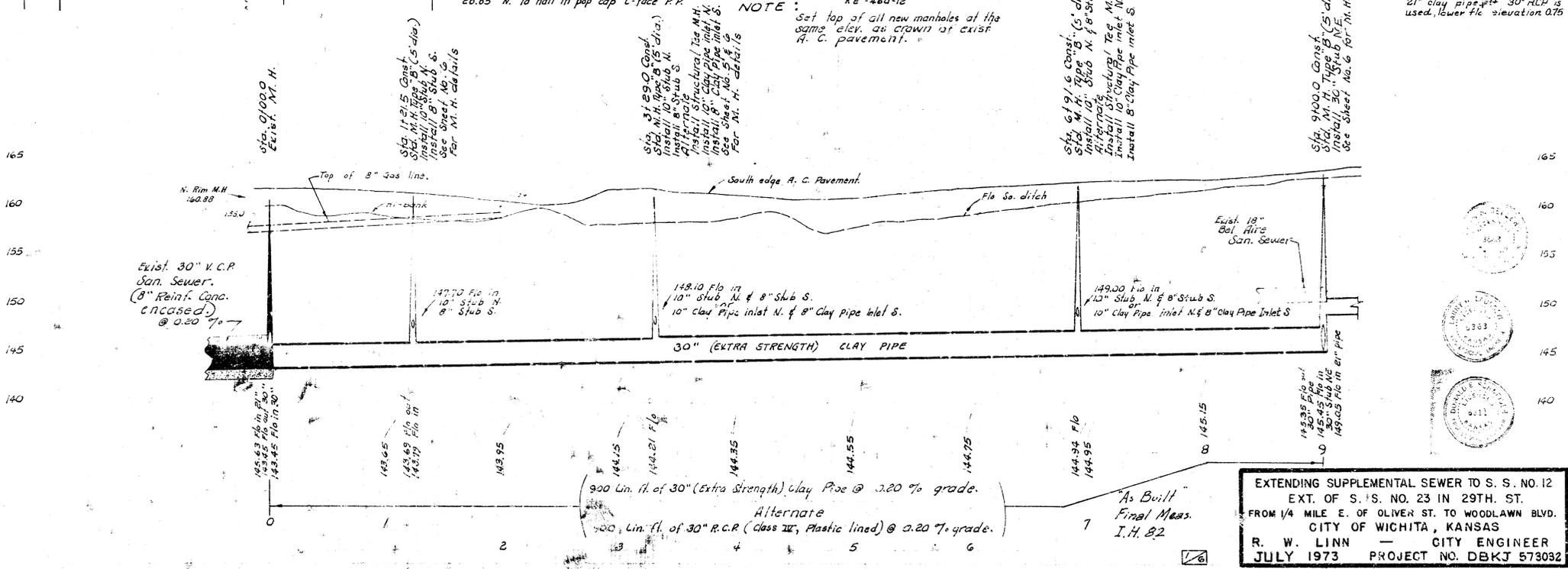
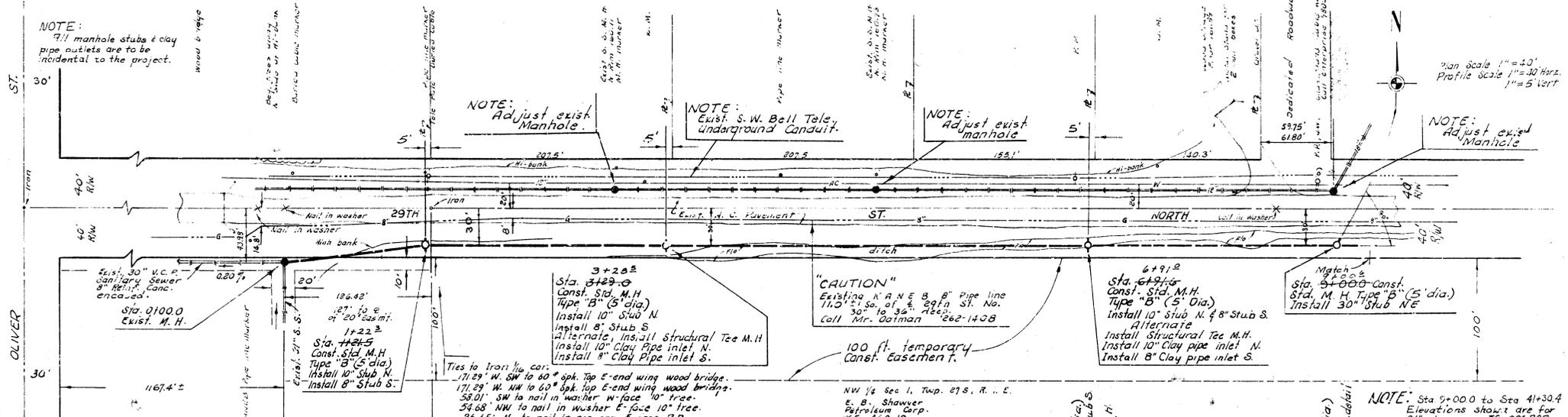


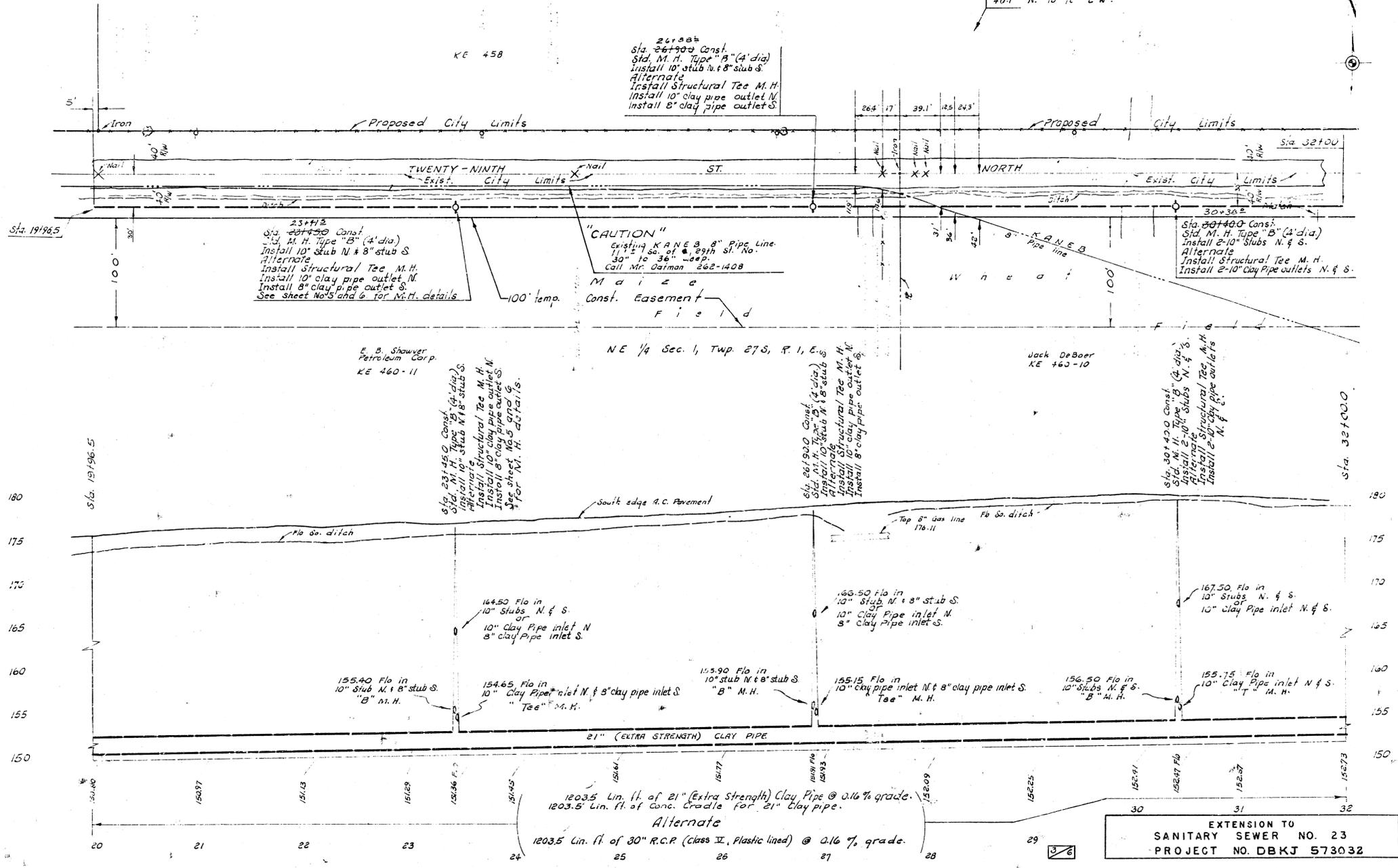
B. M. 165.37 R.R. spk top east Post -
 N. Danister wood bridge, 1200 ft.
 E. of Oliver on 29th St. North.

B. M. 172.38 City Sid. 29th - Edgemoor
 3.5' east of 370' N. of Iron

Plan Scale 1"=40'
 Profile Scale 1"=30' Horz.
 1"=5' Vert



Ties to Iron 1/4 cor.
 122.82' NW to 3 hollow point tacks S-face R.P.
 43.15' S. 8W to 3 hollow point tacks N-face Inc. Post
 171.90' NE to 3 hollow point tacks SW face R.P.
 16.0' W. to 1c South
 40.1' N. to 1c E-W.



B. N. 15.85 City Sid. Square cut top N-Hdwn.
 29.08' S. 49.11' W. and 17.17' N. 51.42' E. both
 29.17' S. N. and Woodlawn.

Ties to Iron & 2 1/2" dia. No. and Woodlawn
 59.05' SE to 3" nails (#3) 1/2" W. face cor. post.
 31.00' SW to 1" on conc. Hdwall.
 51.03' NW to 4" on conc. Hdwall.
 19.09' NW to nail in pop cap NE face P.P.
 56.95' NE to nail in pop cap SE face P.P.

NOTE:
 Proposed 24" water line
 4.5' deep to top of pipe.

33+86.2
 Sta. 33+70.0 Const.
 Std. M. H. Type "B" (4' dia.)
 Install 3-10" stubs N. & S.
 Alternate:
 Install Structural Tee M. H.
 Install 2-10" Clay Pipe outlets N. & S.
 See sheet No. 5 and 6 for M. H. details

Sta. 37+70.0 Const.
 Std. M. H. Type "B" (4' dia.)
 Install 2-10" stubs N. & S.
 Alternate:
 Install Structural Tee M. H.
 Install 2-10" Clay Pipe outlets N. & S.

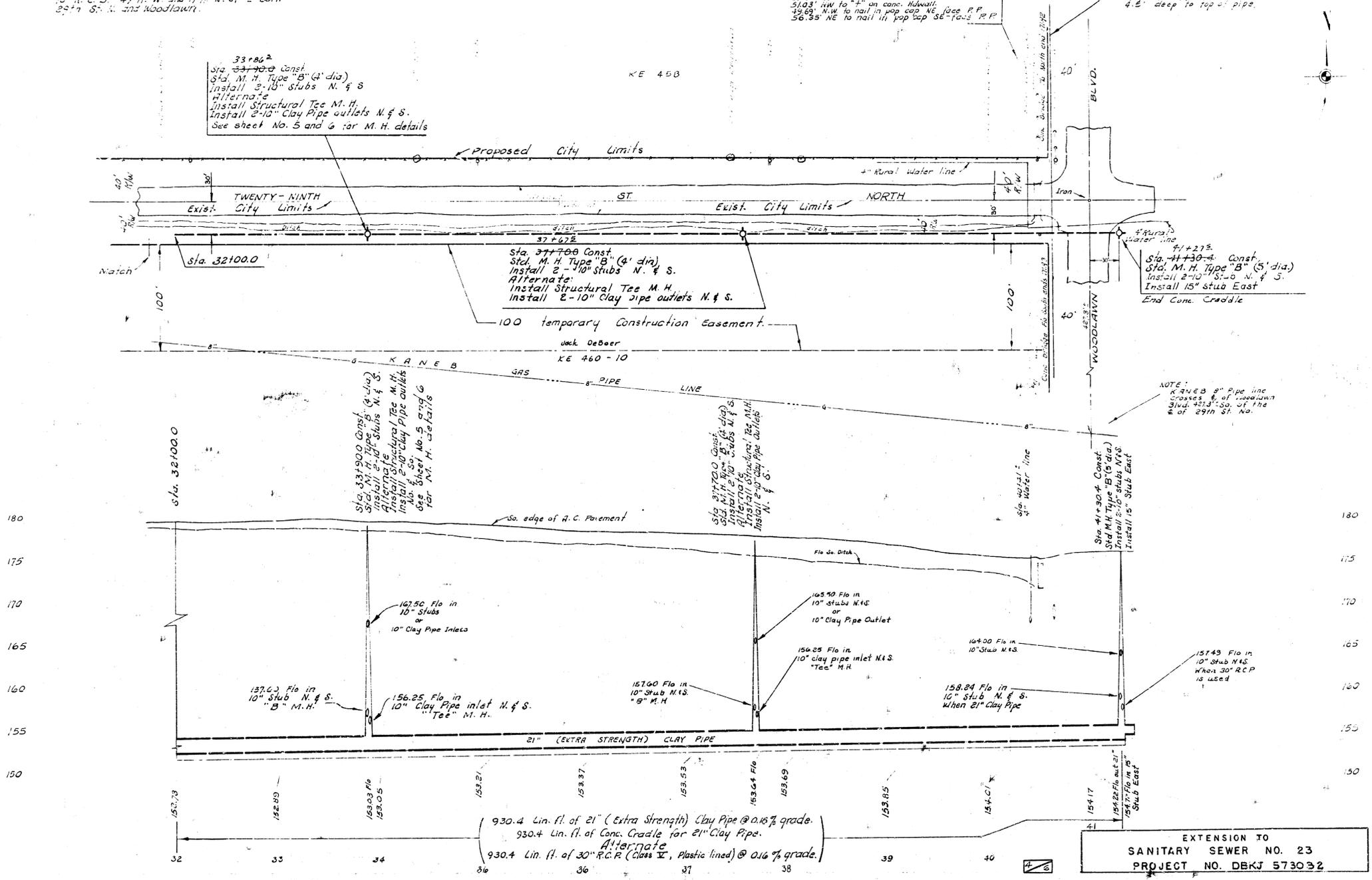
71+27.5
 Sta. 71+30.4 Const.
 Std. M. H. Type "B" (5' dia.)
 Install 2-10" stubs N. & S.
 Install 15" stub East
 End Conc. Cradle

Sta. 33+90.0 Const.
 Std. M. H. Type "B" (4' dia.)
 Install 3-10" stubs N. & S.
 Alternate:
 Install Structural Tee M. H.
 Install 2-10" Clay Pipe outlets
 See sheet No. 5 and 6 for M. H. details

Sta. 37+70.0 Const.
 Std. M. H. Type "B" (4' dia.)
 Install 2-10" stubs N. & S.
 Alternate:
 Install Structural Tee M. H.
 Install 2-10" Clay Pipe outlets
 See sheet No. 5 and 6 for M. H. details

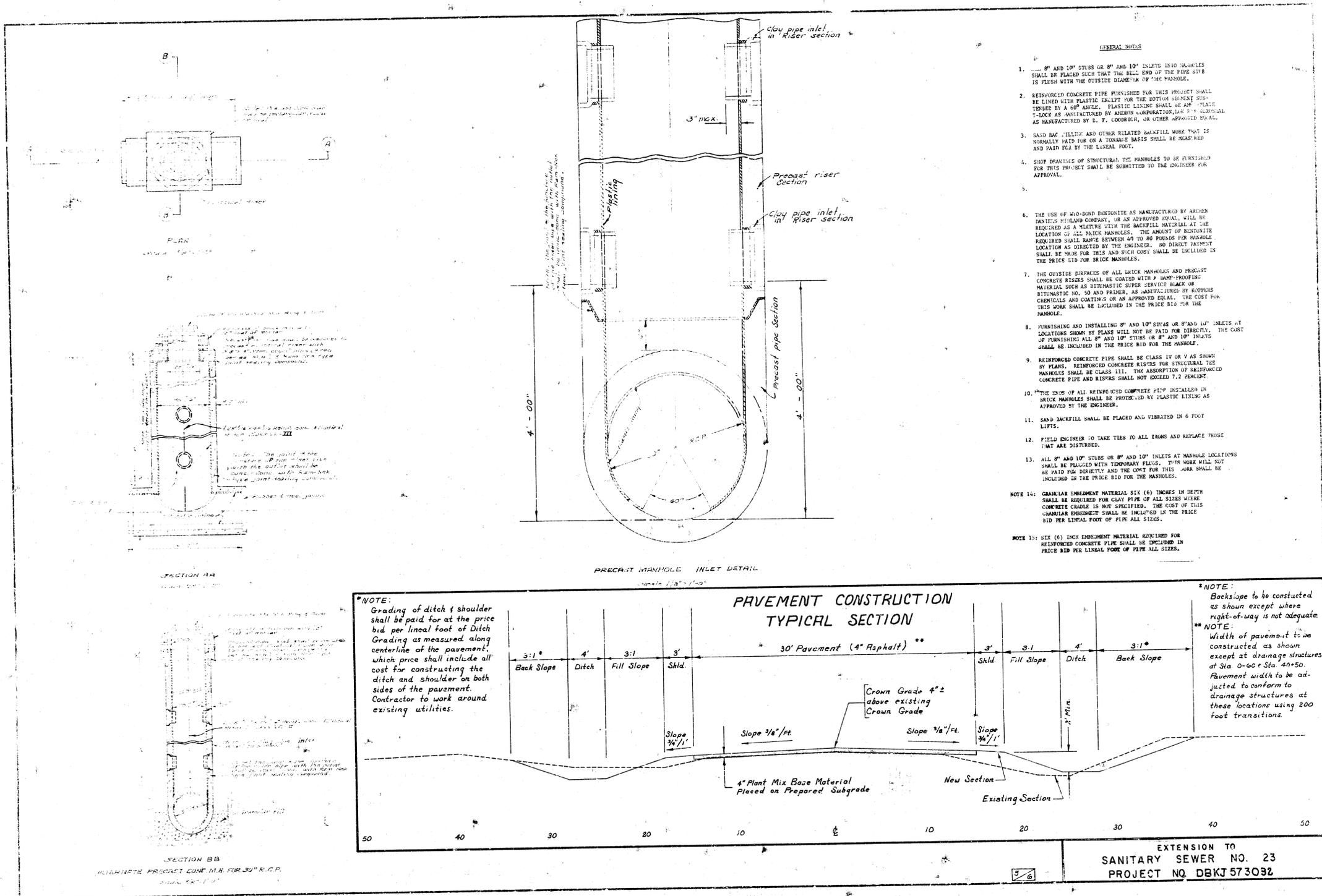
Sta. 71+30.4 Const.
 Std. M. H. Type "B" (5' dia.)
 Install 2-10" stubs N. & S.
 Install 15" stub East

NOTE:
 4" 4" E. B. 2" Pipe line
 crosses E. of Woodlawn
 Blvd. 4213' So. of the
 E. of 29th St. No.



930.4 Lin. ft. of 21" (Extra Strength) Clay Pipe @ 0.16% grade.
 930.4 Lin. ft. of Conc. Cradle for 21" Clay Pipe.
 Alternate
 930.4 Lin. ft. of 30" R.C.P. (Class II, Plastic lined) @ 0.16% grade.

EXTENSION TO
 SANITARY SEWER NO. 23
 PROJECT NO. DBKJ 573032



- GENERAL NOTES**
- 8" AND 10" STUBS OR 8" AND 10" INLETS INTO MANHOLES SHALL BE PLACED SUCH THAT THE BELL END OF THE PIPE IS FLUSH WITH THE OUTSIDE GRADE OF THE MANHOLE.
 - REINFORCED CONCRETE PIPE FURNISHED FOR THIS PROJECT SHALL BE LINED WITH PLASTIC EXCEPT FOR THE BOTTOM SINKING SURFACE BY A 60° ANGLE. PLASTIC LINING SHALL BE AN "ELITE" T-LINE AS MANUFACTURED BY AMERON CORPORATION, OR "ALUSOL" AS MANUFACTURED BY E. F. COOKRICH, OR OTHER APPROVED EQUAL.
 - SAND BACK FILLING AND OTHER RELATED BACKFILL WORK THAT IS NORMALLY PAID FOR ON A TONNAGE BASIS SHALL BE MEASURED AND PAID FOR BY THE LINEAL FOOT.
 - SHOP DRAWINGS OF STRUCTURAL THE MANHOLES TO BE FURNISHED FOR THIS PROJECT SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
 -
 - THE USE OF WID-BOND BENTONITE AS MANUFACTURED BY ARCHER DANIELS MIDLAND COMPANY, OR AN APPROVED EQUAL, WILL BE REQUIRED AS A SUBSTITUTE WITH THE BACKFILL MATERIAL AT THE LOCATION OF ALL BRICK MANHOLES. THE AMOUNT OF BENTONITE REQUIRED SHALL RANGE BETWEEN 40 TO 80 POUNDS PER MANHOLE LOCATION AS DIRECTED BY THE ENGINEER. NO DIRECT PAYMENT SHALL BE MADE FOR THIS AND SUCH COSTS SHALL BE INCLUDED IN THE PRICE BID FOR BRICK MANHOLES.
 - THE OUTSIDE SURFACES OF ALL BRICK MANHOLES AND PRECAST CONCRETE RISERS SHALL BE COATED WITH A DAMP-PROOFING MATERIAL SUCH AS BITUMASTIC SUPER SERVICE BLACK OR BITUMASTIC NO. 30 AND PRIMER, AS MANUFACTURED BY KOPPERS CHEMICALS AND COATINGS OR AN APPROVED EQUAL. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.
 - FURNISHING AND INSTALLING 8" AND 10" STUBS OR 8" AND 10" INLETS AT LOCATIONS SHOWN BY PLANS WILL NOT BE PAID FOR DIRECTLY. THE COST OF FURNISHING ALL 8" AND 10" STUBS OR 8" AND 10" INLETS SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.
 - REINFORCED CONCRETE PIPE SHALL BE CLASS IV OR V AS SHOWN BY PLANS. REINFORCED CONCRETE RISERS FOR STRUCTURAL TIE MANHOLES SHALL BE CLASS III. THE ABSORPTION OF REINFORCED CONCRETE PIPE AND RISERS SHALL NOT EXCEED 7.2 PERCENT.
 - THE ENDS OF ALL REINFORCED CONCRETE PIPE INSTALLED IN BRICK MANHOLES SHALL BE PROTECTED BY PLASTIC LINING AS APPROVED BY THE ENGINEER.
 - SAND BACKFILL SHALL BE PLACED AND VIBRATED IN 6 FOOT LIFTS.
 - FIELD ENGINEER TO TAKE TIES TO ALL IRONS AND REPLACE THOSE THAT ARE DISTURBED.
 - ALL 8" AND 10" STUBS OR 8" AND 10" INLETS AT MANHOLE LOCATIONS SHALL BE FLAGGED WITH TEMPORARY FLAGS. THIS WORK WILL NOT BE PAID FOR DIRECTLY AND THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLES.
- NOTE 14: GRANULAR EMBEDMENT MATERIAL SIX (6) INCHES IN DEPTH SHALL BE REQUIRED FOR CLAY PIPE OF ALL SIZES WHERE CONCRETE CRADLE IS NOT SPECIFIED. THE COST OF THIS GRANULAR EMBEDMENT SHALL BE INCLUDED IN THE PRICE BID PER LINEAL FOOT OF PIPE ALL SIZES.
- NOTE 15: SIX (6) INCH EMBEDMENT MATERIAL REQUIRED FOR REINFORCED CONCRETE PIPE SHALL BE INCLUDED IN PRICE BID PER LINEAL FOOT OF PIPE ALL SIZES.

***NOTE:**
Grading of ditch & shoulder shall be paid for at the price bid per lineal foot of ditch centerline of the pavement, which price shall include all cost for constructing the ditch and shoulder on both sides of the pavement. Contractor to work around existing utilities.

***NOTE:**
Backslope to be constructed as shown except where right-of-way is not adequate.

****NOTE:**
Width of pavement to be constructed as shown except at drainage structures at Sta. 0+60 & Sta. 40+50. Pavement width to be adjusted to conform to drainage structures at these locations using 200 foot transitions.

EXTENSION TO
SANITARY SEWER NO. 23
PROJECT NO. DBKJ 573032

