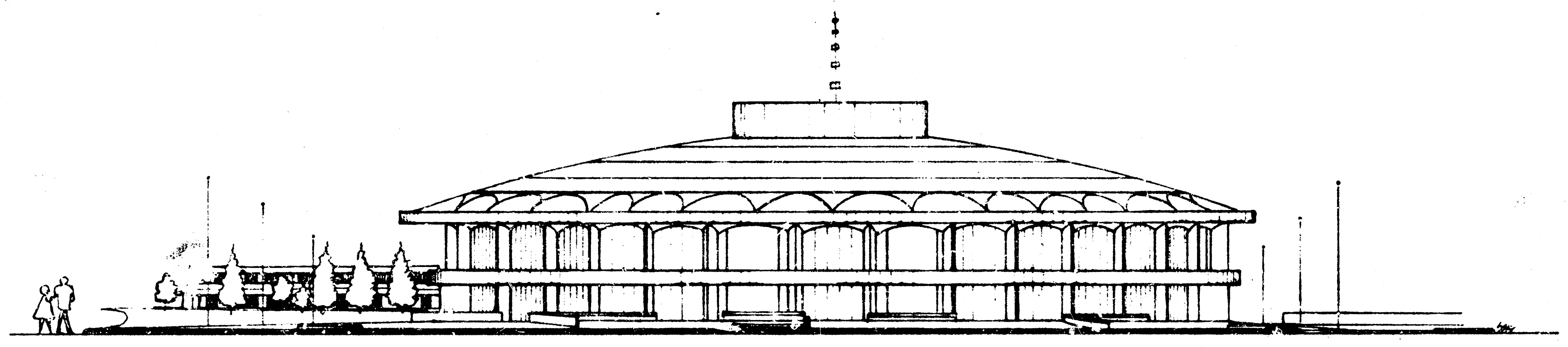
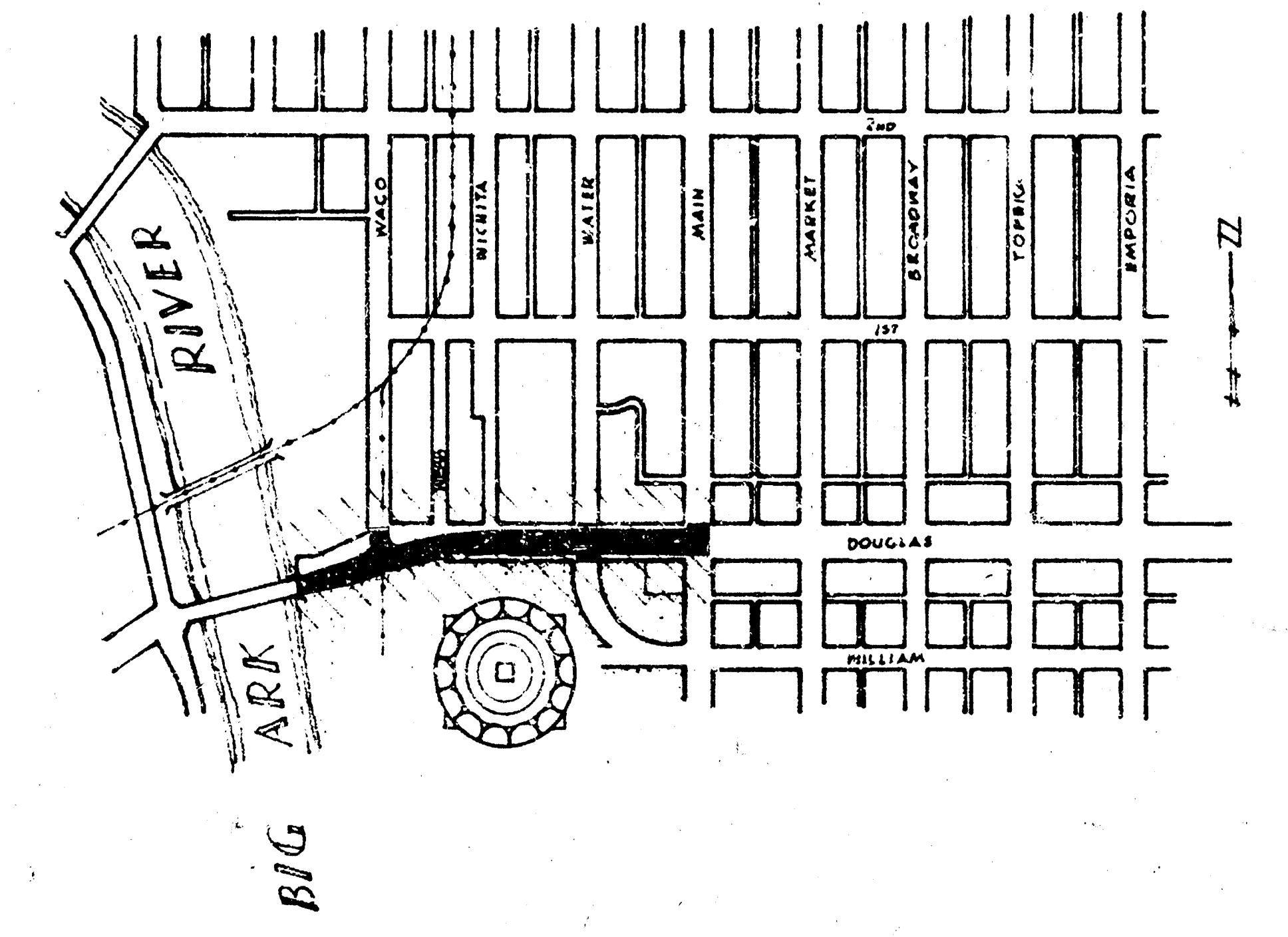


—STREET IMPROVEMENT—


2ND
WACO
WICHITA
WATER
MAIN
MARKET
BROADWAY
TOPEKA
EMPORIA
1ST
DOUGLAS
WILLIAM
RIVER
ARK
BIG

INDEX OF SHEETS

1. Title Sheet and Project Nos.
2. Steel + Curb Details - Street typical section
3. Construction Detail Sheet
4. " " "
5. " " "
6. Brick Panel Construction Sheet
7. " " " "
8. " " " " + Details

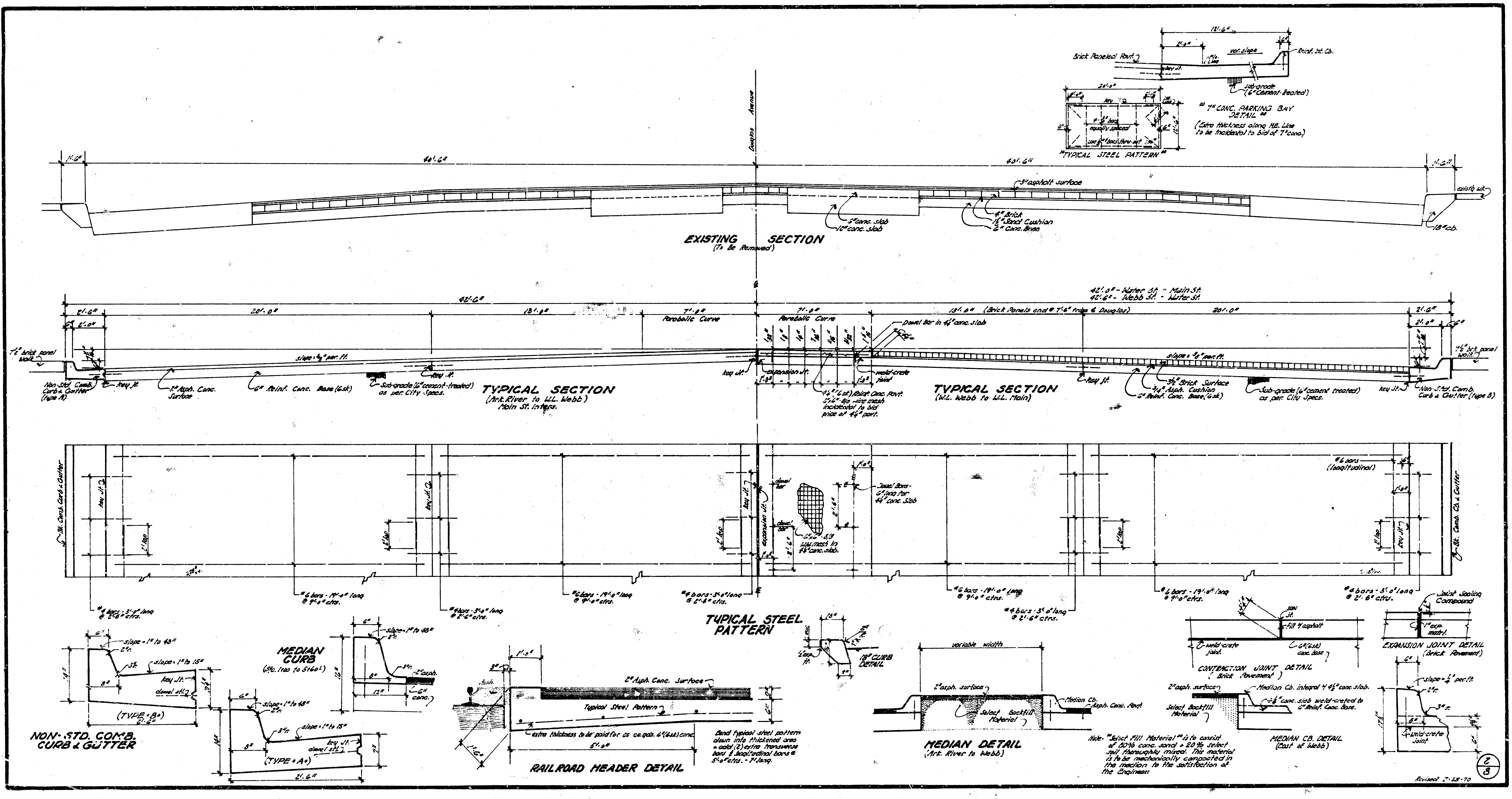
URBAN RENEWAL AGENCY
of the
WICHITA, KANSAS METROPOLITAN AREA
CIVIC CENTER PROJECT ··· KANSAS R-19

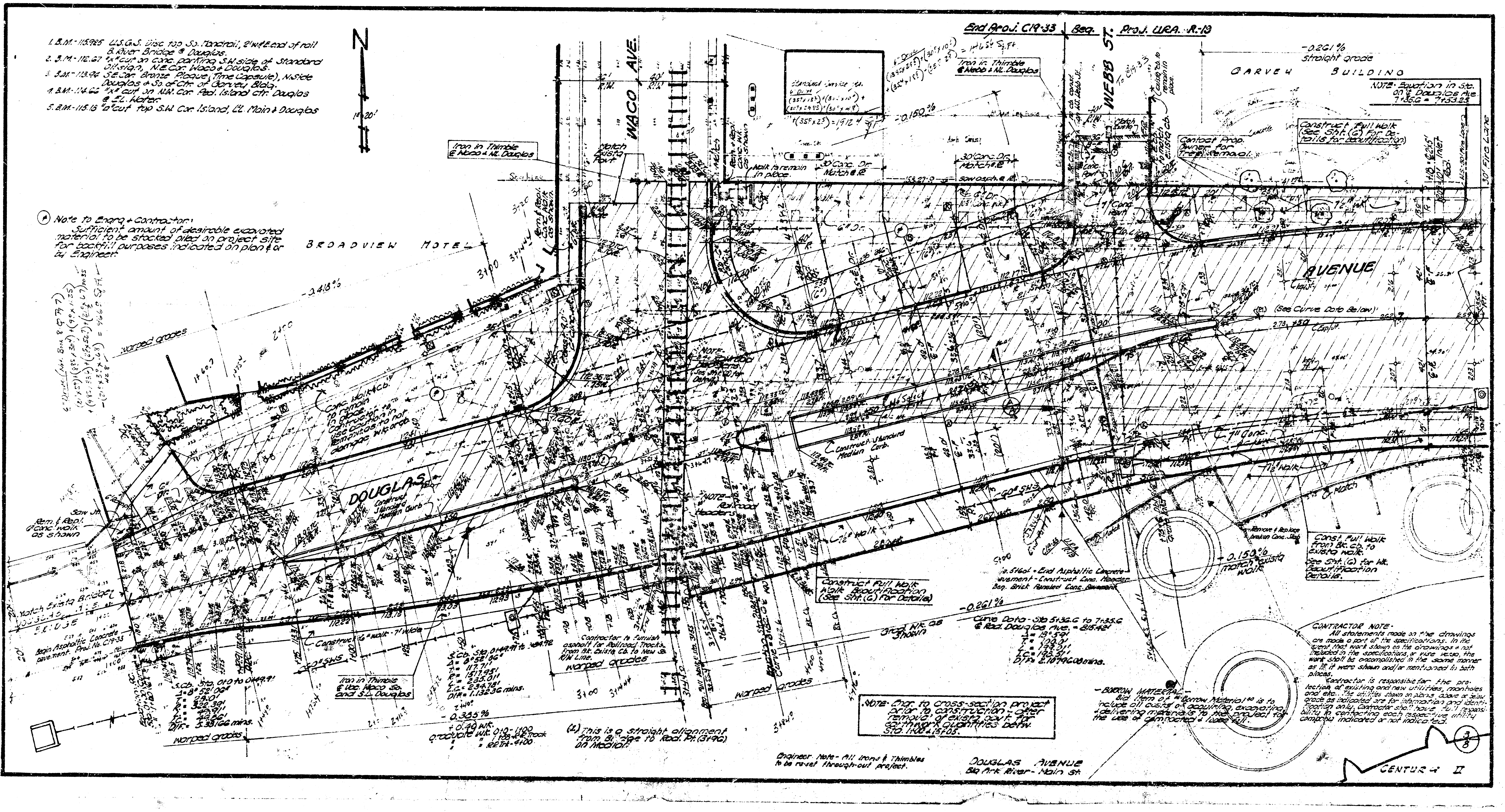
DOUGLAS AVENUE

Big Arkansas River to Main St.

DEPARTMENT OF PUBLIC WORKS
CITY OF WICHITA, KANSAS
B.E. SMITH ········ CITY ENGINEER
PROJ. NO. C19-33 + C19-34

1/8


Brick Paneled Pvmt.
12'-6"
2'-0"
6"
var. slope
Reinf. Int. Cb.
key jt.
H.B. Line
sub-grade (6" Cement-treated)
30'-0"
4'-0"
2'-0"
key jt.
4-3/8" bars equally spaced
use 3/8" bars thru-out
6"
12'-6"
"TYPICAL STEEL PATTERN"
"7" CONC. PARKING BAY DETAIL"
(Extra thickness along H.B. Line to be incidental to bid of 7" conc.)
Douglas Avenue
1'-6"
40'-6"
40'-6"
3" asphalt surface
6" conc. slab
12" conc. slab
4" Brick
1½" Sand Cushion
6" Conc. Base
existg. wk.
18" cb.
EXISTING SECTION
(To Be Removed)
42'-6"
2'-6"
2'-0"
6"
20'-0"
13'-0"
7'-0"
Parabolic Curve
7'-0"
Parabolic Curve
42'-0" - Water St. - Main St.
42'-6" - Webb St. - Water St.
13'-0" (Brick Panels end @ 7'-6" from ℄ Douglas)
20'-0"
2'-6"
2'-0"
6"
7½" brick panel walk
slope = 3/8" per ft.
Non-Std. Comb. Curb & Gutter (type A)
key jt.
2" Asph. Conc. Surface
6" Reinf. Conc. Base (6 sk)
Sub-grade (6" cement-treated) as per City Specs.
key jt.
TYPICAL SECTION
(Ark. River to W.L. Webb)
Main St. Inters.
key jt.
expansion jt.
1'-0"
Dowel Bar in 4¼" conc. slab
weld-crete joint
1'-0"
4¼" (6 sk) Reinf. Conc. Pavt. 6"x6"-8/8 wire mesh incidental to bid price of 4¼" pavt.
TYPICAL SECTION
(W.L. Webb to W.L. Main)
key jt.
slope = 3/8" per ft.
3½" Brick Surface
3/4" Asph. Cushion
6" Reinf. Conc. Base (6 sk)
Sub-grade (6" cement treated) as per City Specs.
key jt.
Non-Std. Comb. Curb & Gutter (type B)
7½" brk. panel walk
St. Comb. Curb & Gutter
key jt.
2' lap
key jt.
2' lap
#4 bars - 3'-0" long @ 2'-6" ctrs.
#6 bars - 19'-0" long @ 9'-0" ctrs.
#4 bars - 3'-0" long @ 2'-6" ctrs.
#6 bars - 19'-0" long @ 9'-0" ctrs.
#4 bars - 3'-0" long @ 2'-6" ctrs.
key jt.
2' lap
expansion jt.
dowel bar
dowel bar
1'-0"
2'-6"
6"x6"-8/8 W.W. mesh in 4¼" conc. slab.
1'-0"
2'-6"
Dowel Bars - 6" long for 4¼" conc. Slab
#6 bars - 19'-0" long @ 9'-0" ctrs.
#4 bars - 3'-0" long @ 2'-6" ctrs.
2' lap
#6 bars - 19'-0" long @ 9'-0" ctrs.
#6 bars (longitudinal)
6"
1'-0"
2' lap
key jt.
#4 bars - 3'-0" long @ 2'-6" ctrs.
Bk. Comb. Cb. & Gutter
TYPICAL STEEL PATTERN
6"
slope = 1" to 48"
2"r.
3"r.
slope = 1" to 15"
8"
key Jt.
dowel stl.
(TYPE "B")
2'-6"
NON-STD. COMB. CURB & GUTTER
6"
slope = 1" to 48"
2"r.
3"r.
slope = 1" to 15"
8"
key Jt.
dowel stl.
(TYPE "A")
2'-6"
MEDIAN CURB
(Sta. 1+00 to Sta. 60±)
6"
slope = 1" to 48"
2"r.
3"r.
2" asph.
8"
13"
16"
6" conc.
1'-0"
3"
Asph.
2" Asph. Conc. Surface
Typical Steel Pattern
extra thickness to be paid for as cu.yds. 6" (6 sk) conc.
5'-0"
1'-6"
2"
6"
RAILROAD HEADER DETAIL
Bend typical steel pattern down into thickened area & add (2) extra transverse bars & longitudinal bars @ 5'-0" ctrs. - 7' long.
18"
½" exp. jt.
2"
9"
18" CURB DETAIL
variable width
2" asph. surface
Select Backfill Material
Median Cb.
Asph. Conc. Pavt.
MEDIAN DETAIL
(Ark. River to Webb)
Note - "Select Fill Material" is to consist of 80% conc. sand + 20% select soil thoroughly mixed. This material is to be mechanically compacted in the median to the satisfaction of the Engineer.
saw jt.
fill w/ asphalt
weld-crete joint
6" (6 sk) conc. base
CONTRACTION JOINT DETAIL
(Brick Pavement)
Joint Sealing Compound
1" exp. matrl.
EXPANSION JOINT DETAIL
(Brick Pavement)
2" asph. surface
Median Cb. integral w/ 4¼" conc. slab.
4¼" conc. slab weld-creted to 6" Reinf. Conc. Base.
Select Backfill Material
MEDIAN CB. DETAIL
(East of Webb)
6"
slope = ¼" per ft.
2"r.
3"r.
6"
weld-crete joint
2/8
Revised 7-25-70



N
1" = 20'
WACO AVE.
WEBB ST.
DOUGLAS
AVENUE
BROADVIEW MOTEL
GARVEY BUILDING
-3.418%
-0.150%
-0.261%
straight grade
+0.150%
match existg walk
-0.385%
+0.40 Wk.
graduate Wk. 0+0 - 1+00
" 1+88 - R.R. Track
" R.R. Trk - 4+00
warped grades
Grad. Wk. as shown
Iron in Thimble
℄ Waco & NL. Douglas
Iron in Thimble
℄ Webb & NL. Douglas
Iron in Thimble
℄ Wac. Waco So. and S.L. Douglas
Construct 6" walk - 7' wide
Construct Full Walk (See Sht. (6) For Details for beautification)
Construct Full Walk
Walk Beautification
(See Sht. (6) For Details)
Const. Full Walk from Bk. cb. to existg walk.
See Sht. (6) for Wk. Beautification Details.
Contact Prop. Owner for Tree Removal.
existg cb. to remain in place.
To C19-33
Construct Standard Median Curb
Contractor to furnish asphalt for Railroad Tracks from Bk. Existg Cb. to New Sw. R/W Line.
Match Existg Bridge
Begin Asphaltic Concrete pavement. Proj. No. C19-33
Rem. & Repl. Conc. walk as shown
Saw Jt.
NOTE: Equation in Sta. on ℄ Douglas Ave 7+35.6 = 7+53.25
(See Curve Data Below)
3+00
4+00

End Proj. C19-33 | Beg. Proj. URA. R-13

1. B.M.-115.925 U.S.G.S. Disc top So. Handrail, 2' W. of E. end of rail B. River Bridge @ Douglas.
2. B.M.-112.67 "x" cut on conc. parking S.W. side of Standard Oil sign, N.E. Cor. Waco & Douglas.
3. B.M.-113.94 S.E. Cor. Bronze Plaque (Time Capsule), N. Side Douglas & So. of Ctr. of Garvey Bldg.
4. B.M.-114.66 "x" cut on N.W. Cor. Ped. Island Ctr. Douglas @ E.L. Water.
5. B.M.-115.16 "□" cut top S.W. Cor. Island, E.L. Main & Douglas

(*) Note to Engrg. & Contractor:
Sufficient amount of desirable excavated material to be stocked piled on project site for backfill purposes indicated on plan & or by Engineer.

S. Cb. Sta. 0+0 to 0+49.91
Δ = 8° 52' 06"
T. = 25.01'
R. = 322.39'
L. = 49.91'
L.C. = 49.86'
D/F. = 5.33166 mins.

S. Cb. Sta. 0+49.91 to 2+84.92
Δ = 8° 52' 06"
T. = 117.71'
R. = 1517.95'
L. = 235.01'
L.C. = 234.78'
D/F. = 1.13236 mins.

(2) This is a straight alignment from Bridge to Rad. Pt. (3+96) on Median.

Curve Data - Sta 5+36.6 to 7+35.6
℄ Rad. Douglas Ave. = 815.42'
Δ = 13° 59'
T. = 100.0'
L. = 199.0'
L.C. = 198.51'
D/F. = 2.107960 mins.

NOTE: Engr. to cross-section project prior to construction - after removal of existg pavt. for earthwork quantities betw. Sta. 1+00 & 15+05.

Engineer Note - All Irons & Thimbles to be re-set through-out project.

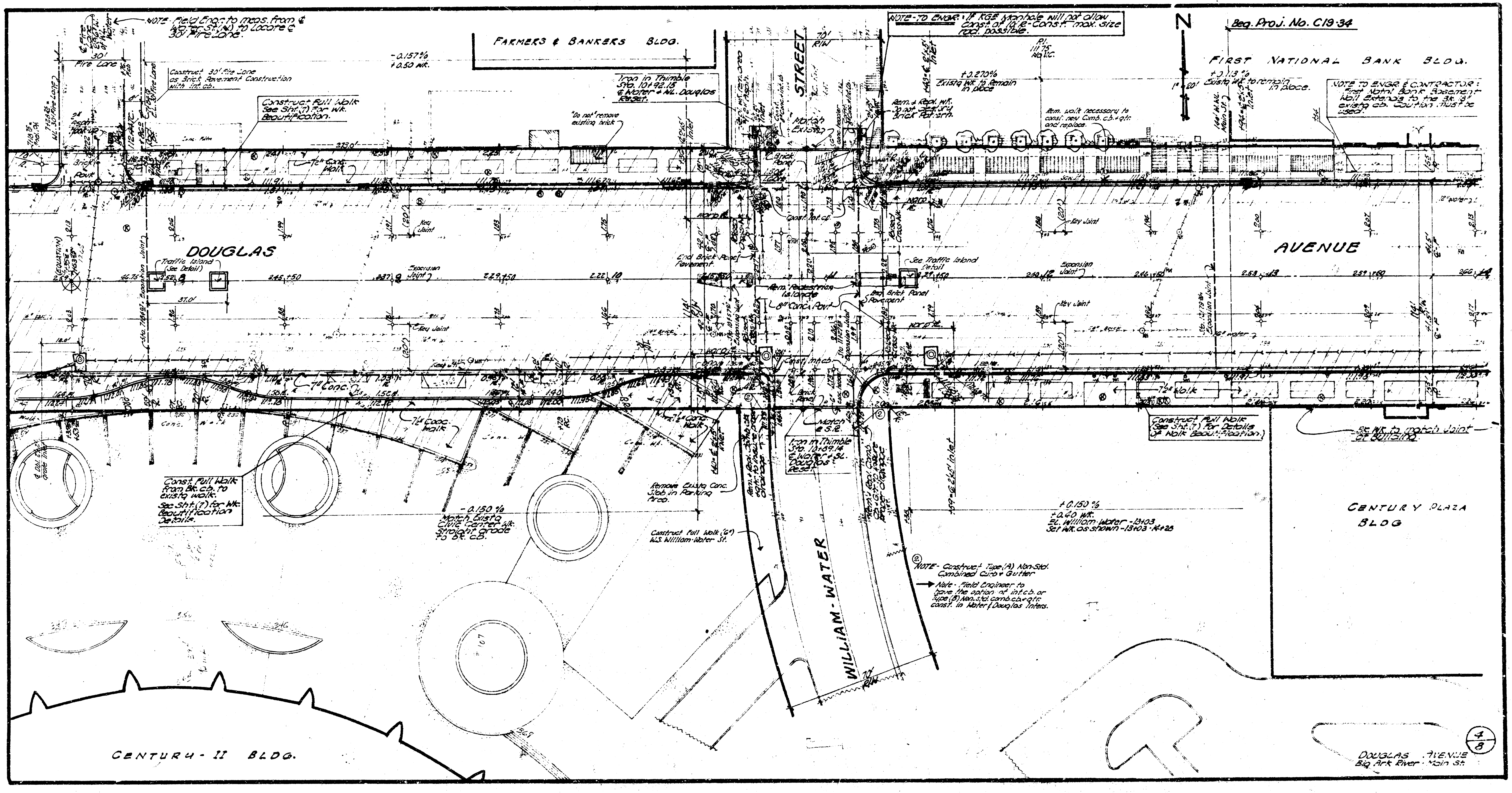
- BORROW MATERIAL -
Bid Item of "Borrow Material" is to include all costs of acquiring, excavating & delivering materials to the project for the use of compacted & loose fill.

CONTRACTOR NOTE -
1. All statements made on the drawings are made a part of the specifications. In the event that work shown on the drawings & not included in the specifications, or vise versa, the work shall be accomplished in the same manner as if it were shown and/or mentioned in both places.
2. Contractor is responsible for the protection of existing and new utilities, manholes and etc.. The utilities shown on plans above or below grade as indicated are for information and identification only. Contractor shall have full responsibility in contacting each respective utility company indicated or not indicated.

DOUGLAS AVENUE
Big Ark River - Main St.

CENTURY II

3/8



FARMERS & BANKERS BLDG.
STREET
70' R/W
N
1" = 20'
Beg. Proj. No. C19-34
FIRST NATIONAL BANK BLDG.
DOUGLAS
AVENUE
30' Fire Lane
-0.157%
+0.50 Wk.
+0.270%
+0.113%
P.I. 111.75 No V.C.
Traffic Island (See Detail)
See Traffic Island Detail
Expansion Joint
Key Joint
7" Conc. Walk
7" Conc.
7½" Conc. Walk
Brick Panel
Brick Pavt.
Match Existg.
Conc. Walk
WILLIAM-WATER
70' R/W
CENTURY PLAZA BLDG
CENTURY-II BLDG.
-0.150%
+0.150%
+0.40 Wk.
El. William-Water -13+03
Set Wk. as shown -13+03 - 14+26
4/8
DOUGLAS AVENUE
Big Ark River - Main St.

NOTE - Field Engr. to meas. from ℄ Water St. (W.) to Locate ℄ 30' Fire Lane.

Construct 30' Fire Lane as Brick Pavement Construction with Int. cb.

Construct Full Walk See Sht. (7) For Wk. Beautification.

"Do not" remove existing brick

Iron in Thimble Sta. 10+92.15 ℄ Water & N.L. Douglas Reset.

NOTE - TO ENGR.: If KG&E Manhole will not allow Const. of 10' R - Const. max. size rad. possible.

Existg. Wk. to Remain in place

Existg. Wk. to remain in place.

Rem. & Repl. Wk. Do not destroy Brick Pattern.

Rem. walk necessary to const. new Comb. c.b. & gtr. and replace.

NOTE TO ENGR. & CONTRACTOR: First Natn'l Bank Basement Wall Extends to the Bk. 18" existg. cb. Caution must be used.

Construct Full Walk (See Sht. (7) For Details of Walk Beautification.)

St. Wk. to match Joint of Building.

Const. Full Walk from Bk. cb. to existg. walk. See Sht. (7) for Wk. Beautification Details.

-0.150% Match Existg. Civic Center Wk. Straight grade to Bk. cb.

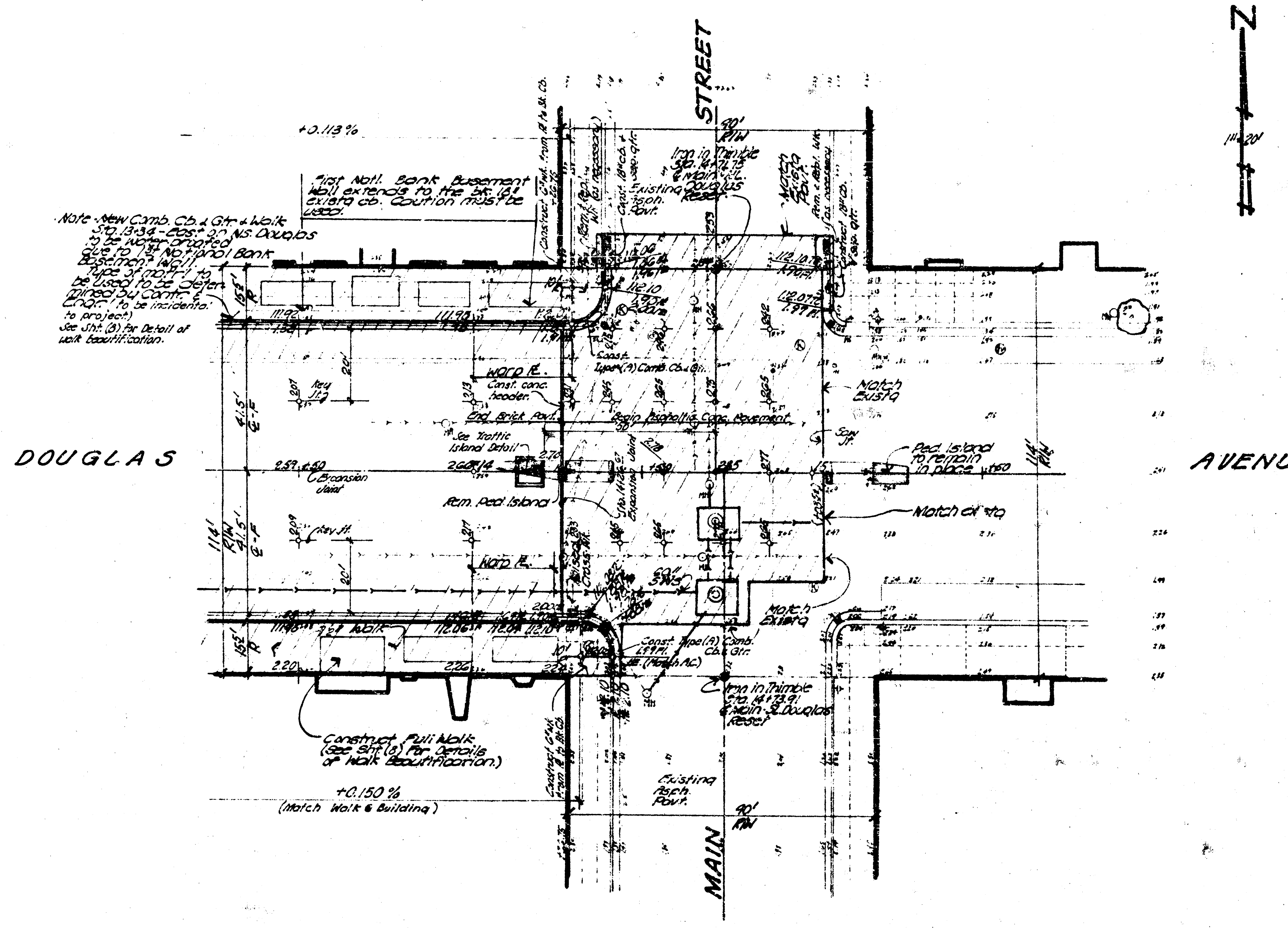
Remove Existg. Conc. Slab in Parking Area.

Construct Full Walk (6") W.S. William-Water St.

Iron in Thimble Sta. 10+89.14 ℄ Water & S.L. Douglas Reset.

② NOTE - Construct Type (A) Non-Std. Combined Curb & Gutter

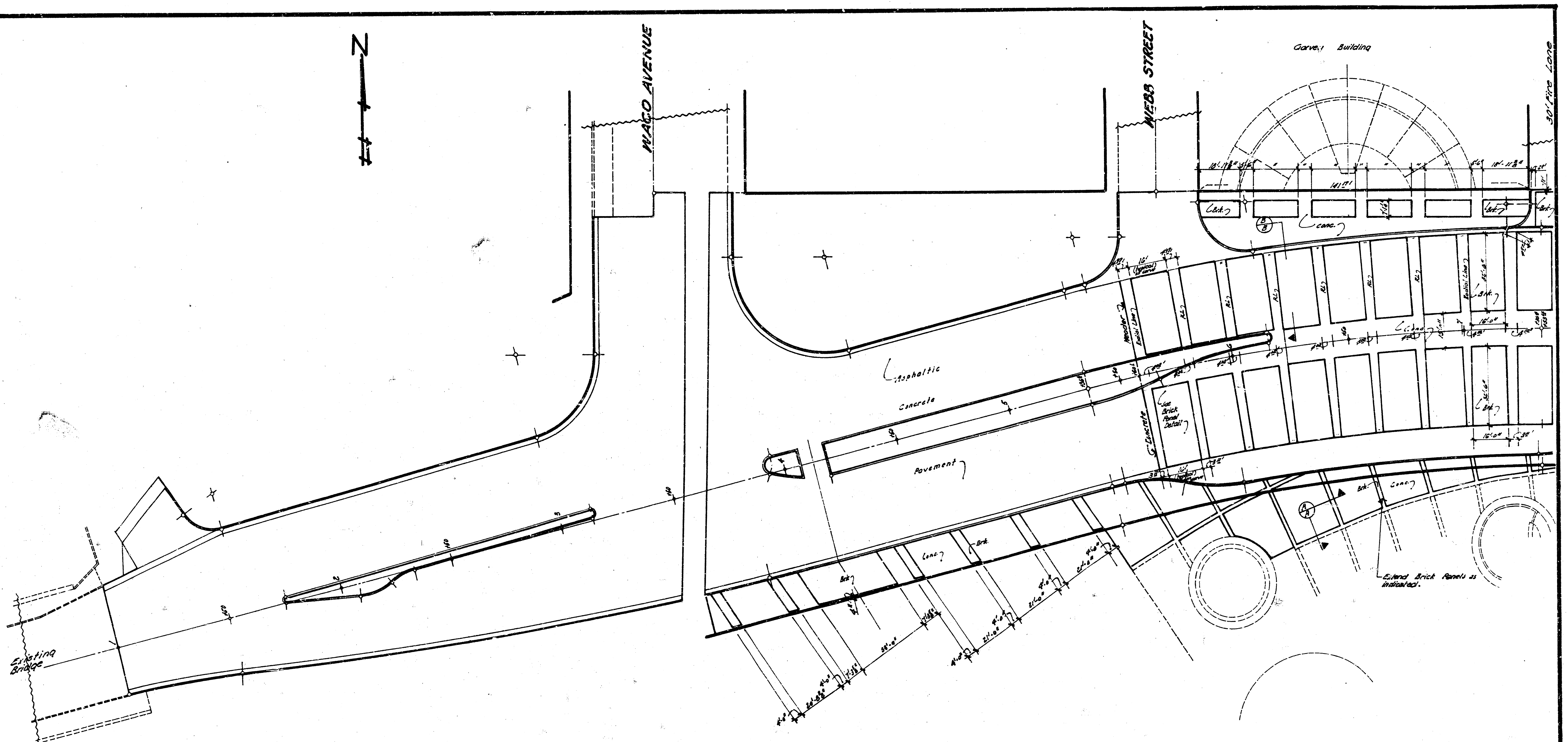
→ Note - Field Engineer to have the option of int. cb. or Type (B) Non-std. comb. cb. & gtr. const. in Water / Douglas Inters.



N
STREET
MAIN
90' R/W
DOUGLAS
AVENUE
+0.113 %
First Natl. Bank Basement Wall extends to the bk. of exist'g cb. Caution must be used.
Note - New Comb. Cb. & Gtr. & Walk Sta. 13+34 - East on N.S. Douglas to be water-proofed due to 1st National Bank Basement Wall. Type of mat'l to be used to be determined by Contr. & Engr. (to be incidental to project)
See Sht. (8) for Detail of walk beautification.
Construct C'Wk. from ℄ to Bk. Cb.
Rem. & Repl. Wk. (as necessary)
Const. 18" Cb. & Gtr.
Existing Asph. Pavt.
Iron in Thimble Sta. 14+76.75 ℄ Main ℄ Douglas Resect.
Match Exist'g Pavt.
Rem. & Repl. Wk. (as necessary)
Construct 18" Cb. & Gtr.
Const. Type (A) Comb. Cb. & Gtr.
Warp ℄.
Const. conc. header.
End Brick Pavt.
Begin Asphaltic Conc. Pavement
See Traffic Island Detail
Rem. Ped Island
Expansion Joint
Key Jt.
Match Exist'g
Saw Jt.
Ped. Island to remain in place
Match at sta.
114' R/W
41.5' ℄-F
15.5' R
20'
Const. Type (A) Comb. Cb. & Gtr.
Iron in Thimble Sta. 14+73.91 ℄ Main ℄ Douglas Resect.
Construct Full Walk (See Sht. (8) for Details of Walk Beautification.)
+0.150 %
(Match Walk & Building)
Construct C'Wk. from ℄ to Bk. Cb.
Existing Asph. Pavt.
90' R/W

DOUGLAS AVENUE
Big Ark. River - Main St.

5
8

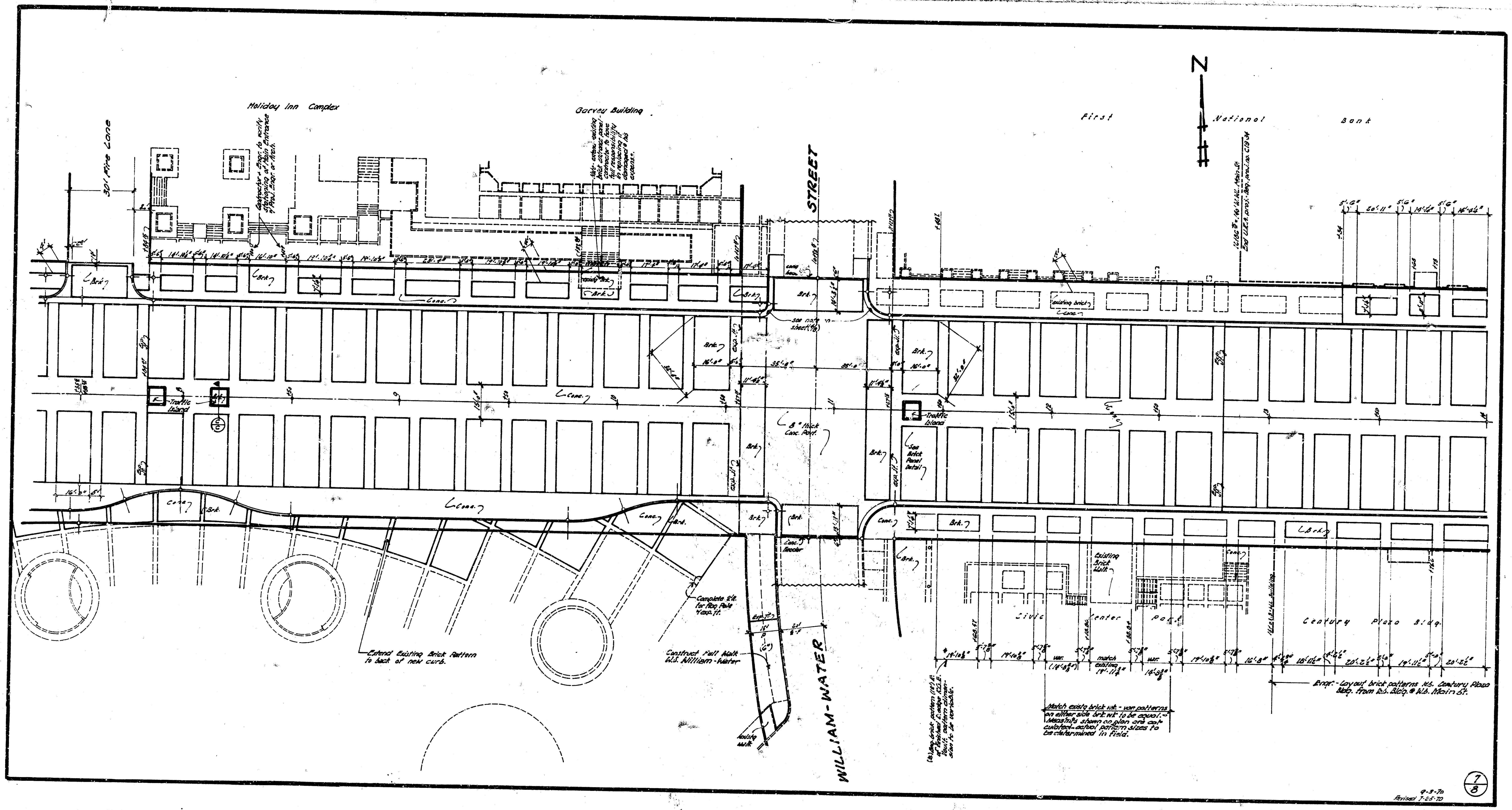

N
WACO AVENUE
WEBB STREET
Garvey Building
30' Fire Lane
Existing Bridge
Asphaltic Concrete Pavement
Concrete
See Brick Panel Detail
Header
Radial Line
RL
Brk.
Conc.
16' (typical) at curve
16'-0"
32'-6"
141'-7"
18'-11 3/4"
5'-6"
7'-1"
B/B
A/A
4'-0"
21'-0"
33'-0"
Extend Brick Panels as indicated.

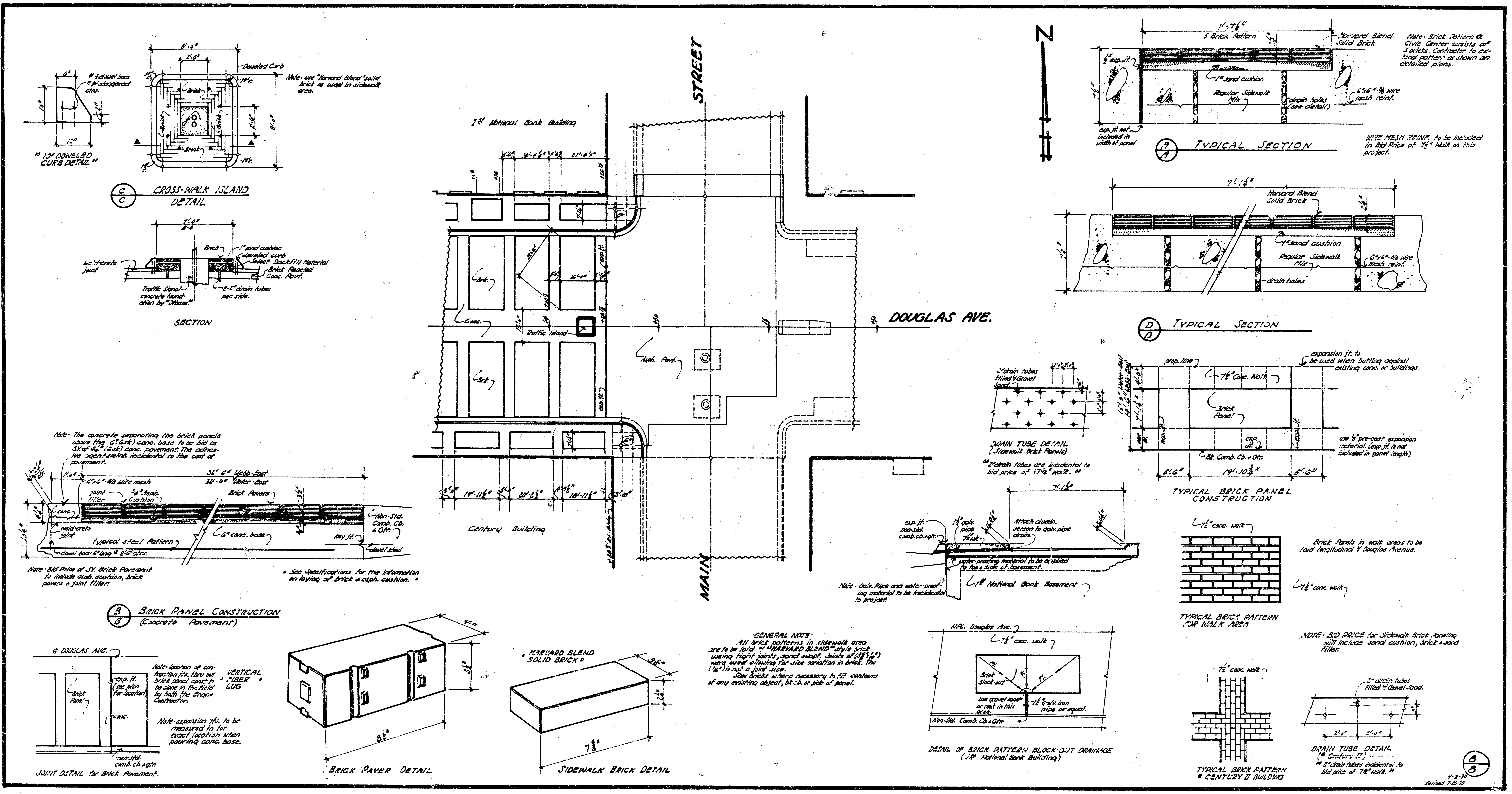
NOTE- Field Engineer to establish property lines for construction of conc. sidewalks.

BRICK PAVEMENT & WALK LAYOUTS

Revised 7-25-73

DOUGLAS AVE. Big Arkansas River to Main St.


N
Holiday Inn Complex
Garvey Building
First National Bank
30' Fire Lane
Contractor + Engr. to verify stationing of Main Entrance by Proj. Engr. or Arch.
Note: extend existing brick entrance panel - contractor to have full responsibility in replacing if damaged at his expense.
11186 Sta. 140'W.W.L. Main St.
End U.R.A. proj. Beg. proj. no. C1934
STREET
WILLIAM-WATER
existing brick
Brk.
Conc.
see note on sheet (4/8)
8" thick Conc. Pavt.
Traffic Island
See Brick Panel Detail
exp. jt.
Conc. Header
Extend Existing Brick Pattern to back of new curb.
Complete 2'Ø for Flag Pole + exp. jt.
Construct Full Walk W.S. William-Water
Existing walk
Existing Brick Walk
Civic Center Park
Century Plaza Bldg.
Beg. brick pattern (12') E. of finished E. edge R.G.E. Vault, pattern dimension to be variable.
Match existg brick wk. - var. patterns on either side brk. wk. to be equal. Meas'm'ts shown on plan are calculated - actual pattern sizes to be determined in field.
match existing 19'-11 3/4"
Engr. - Layout brick patterns W.S. Century Plaza Bldg. from E.S. Bldg. @ W.S. Main St.
35'-0"
16'-0"
11'-4 1/2"
32'-0"
20'-11"
5'-6"
19'-10 3/8"
16'-8"
20'-2 1/2"
7
8
9-3-70
Revised 7-25-70


"10" DOWELED CURB DETAIL"
#4 dowel bars @ 18" staggered ctrs.
6"
10"
6"
12"
8'-0"
2'-6"
Doweled Curb
Brick
1½'r.
C/C CROSS-WALK ISLAND DETAIL
7'-0"
8'-3"
weld-crete joint
Brick
1" sand cushion
doweled curb
Select Backfill Material
Brick Paneled Conc. Pavt.
Traffic Signal concrete foundation by "Others."
2-2" drain tubes per side.
SECTION
1st National Bank Building
STREET
MAIN
DOUGLAS AVE.
Brk.
Conc.
Traffic Island
exp. jt.
Asph. Pavt.
Century Building
5'-6"
16'-4¼"
21'-4¼"
16'-0"
5'-0"
19'-11½"
20'-2½"
18'-11½"
3'-10"
32' 6" Webb-East
32'-0" Water-East
1'-0"
6"x6"-4/4 wire mesh
joint filler
¾" Asph. Cushion
Brick Pavers
conc.
weld-crete joint
6" conc. base
typical steel Pattern
dowel bars 6" long @ 2'-6" ctrs.
Non-Std. Comb. Cb. & Gtr.
key jt.
dowel steel
B/B BRICK PANEL CONSTRUCTION (Concrete Pavement)
℄ DOUGLAS AVE.
Brick Panel
exp. jt. (see plan for location)
conc.
non-std. comb. cb. & gtr.
JOINT DETAIL for Brick Pavement.
VERTICAL FIBER LUG
8½"
3½"
BRICK PAVER DETAIL
"HARVARD BLEND SOLID BRICK"
3⅝"
2¼"
7⅝"
SIDEWALK BRICK DETAIL
N
1'-7½"
5 Brick Pattern
Harvard Blend Solid Brick
½" exp. jt.
1" sand cushion
Regular Sidewalk Mix
drain holes (see detail)
6"x6"-8/8 wire mesh reinf.
exp. jt. not included in width of panel
A/A TYPICAL SECTION
7'-1¼"
drain holes
D/D TYPICAL SECTION
2" drain tubes filled w/ Gravel Sand.
DRAIN TUBE DETAIL (Sidewalk Brick Panels)
prop. line
7½" Conc. Walk
Brick Panel
exp. jt.
Bk. Comb. Cb. & Gtr.
5'-6"
19'-10¾"
15'-9" Water-East
14'-6" Webb-East
TYPICAL BRICK PANEL CONSTRUCTION
exp. jt. non-std. comb. cb. & gtr.
1½" galv. pipe
7½" wk.
Attach alumin. screen to galv. pipe drain.
water-proofing material to be applied to top & side of basement.
1st National Bank Basement
7½" conc. walk
TYPICAL BRICK PATTERN FOR WALK AREA
N.P.L. Douglas Ave.
Brick Block-out
use gravel sand or rock in this area.
1½" galv. iron pipe or equal.
Non-Std. Comb. Cb. & Gtr.
DETAIL OF BRICK PATTERN BLOCK-OUT DRAINAGE (1st National Bank Building)
TYPICAL BRICK PATTERN @ CENTURY II BUILDING
2'-0"
DRAIN TUBE DETAIL (@ Century II)
8/8
4-3-70
Revised 7-25-70

Note - use "Harvard Blend" solid brick as used in sidewalk area.

Note - The concrete separating the brick panels above the 6"(6sk) conc. base to be bid as S.Y. of 4½"(6sk) conc. pavement. The adhesive agent & refinf. incidental to the cost of pavement.

Note - Bid Price of S.Y. Brick Pavement to include asph. cushion, brick pavers & joint filler.

• See Specifications for the information on laying of brick & asph. cushion. •

Note - location of contraction jts. thru-out brick panel const. to be done in the field by both the Engr. & Contractor.

Note - expansion jts. to be measured in for exact location when pouring conc. base.

·GENERAL NOTE·
All brick patterns in sidewalk area are to be laid w/ "HARVARD BLEND" style brick useing tight joints, sand swept. Joints of (3⅝" + ¹⁄₁₆") were used allowing for size variation in brick. The (¹⁄₁₆") is not a joint size.
Saw bricks where necessary to fit contours of any existing object, bk. cb. or side of panel.

Note - Galv. Pipe and water-proofing material to be incidental to project.

Note - Brick Pattern @ Civic Center consists of 5 bricks. Contractor to extend pattern as shown on detailed plans.

WIRE MESH REINF. to be included in Bid Price of 7½" Walk on this project.

expansion jt. to be used when butting against existing conc. or buildings.

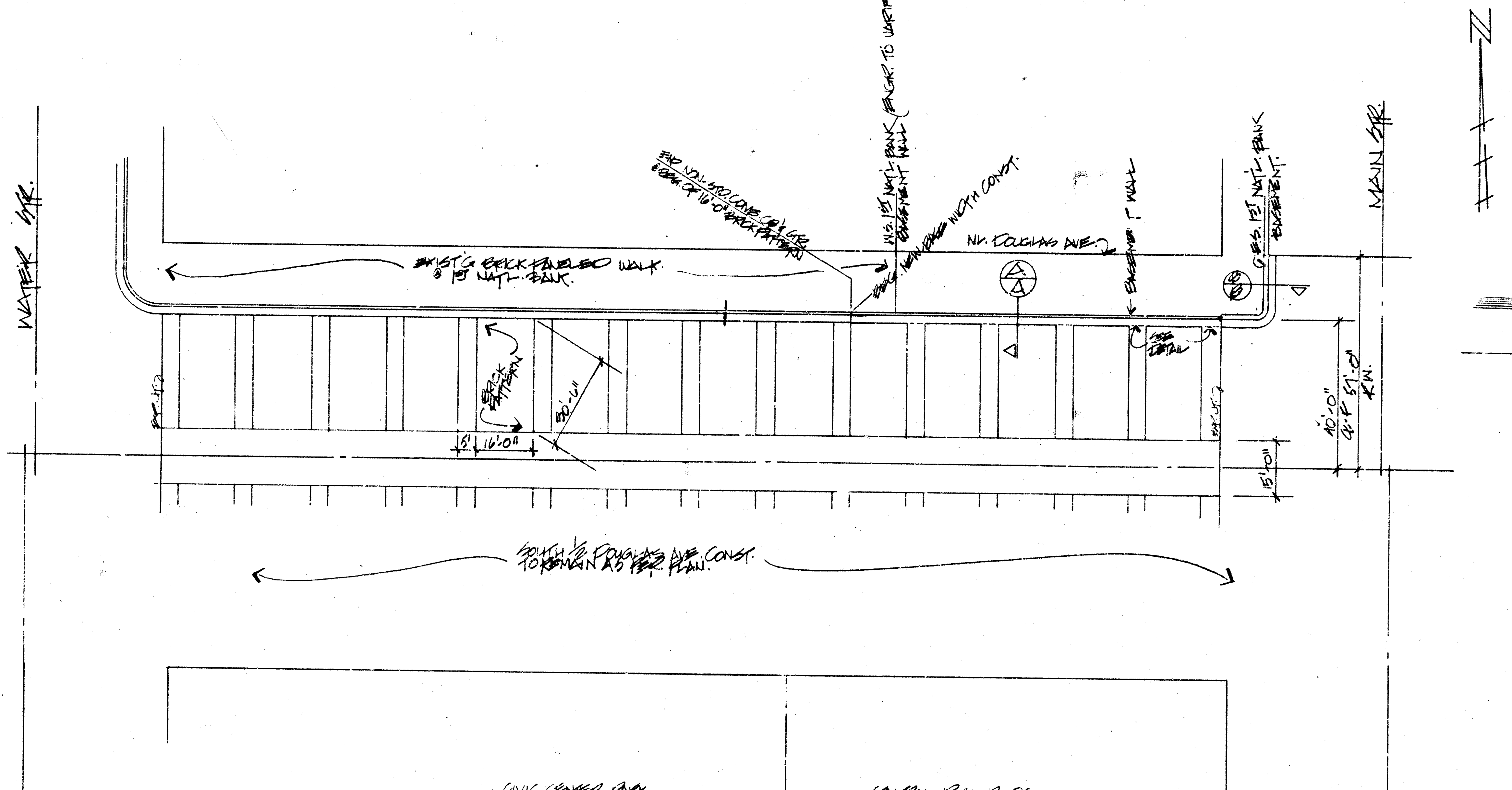
use ½" pre-cast expansion material. (exp. jt. is not included in panel length)

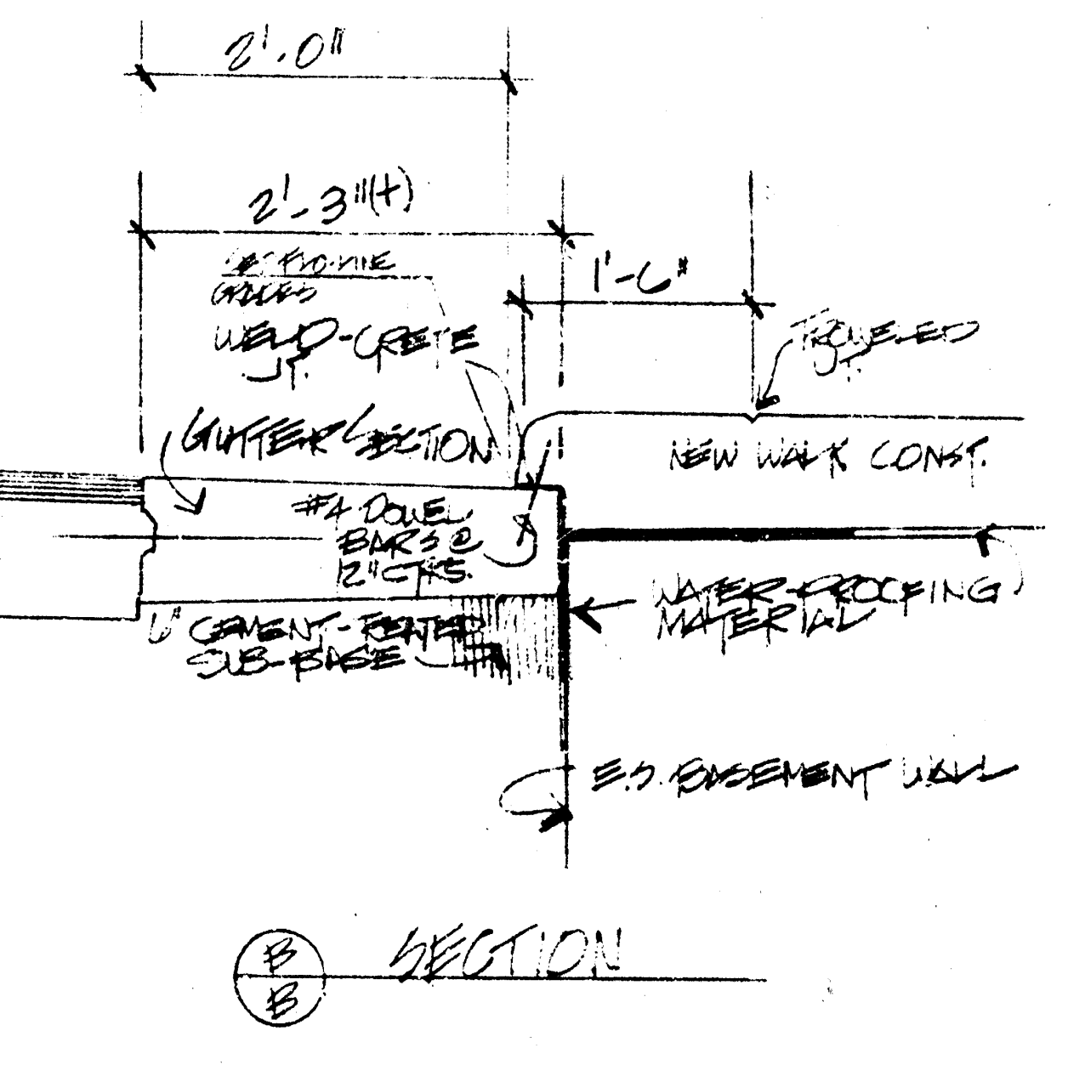
"2" drain tubes are incidental to bid price of 7½" walk."

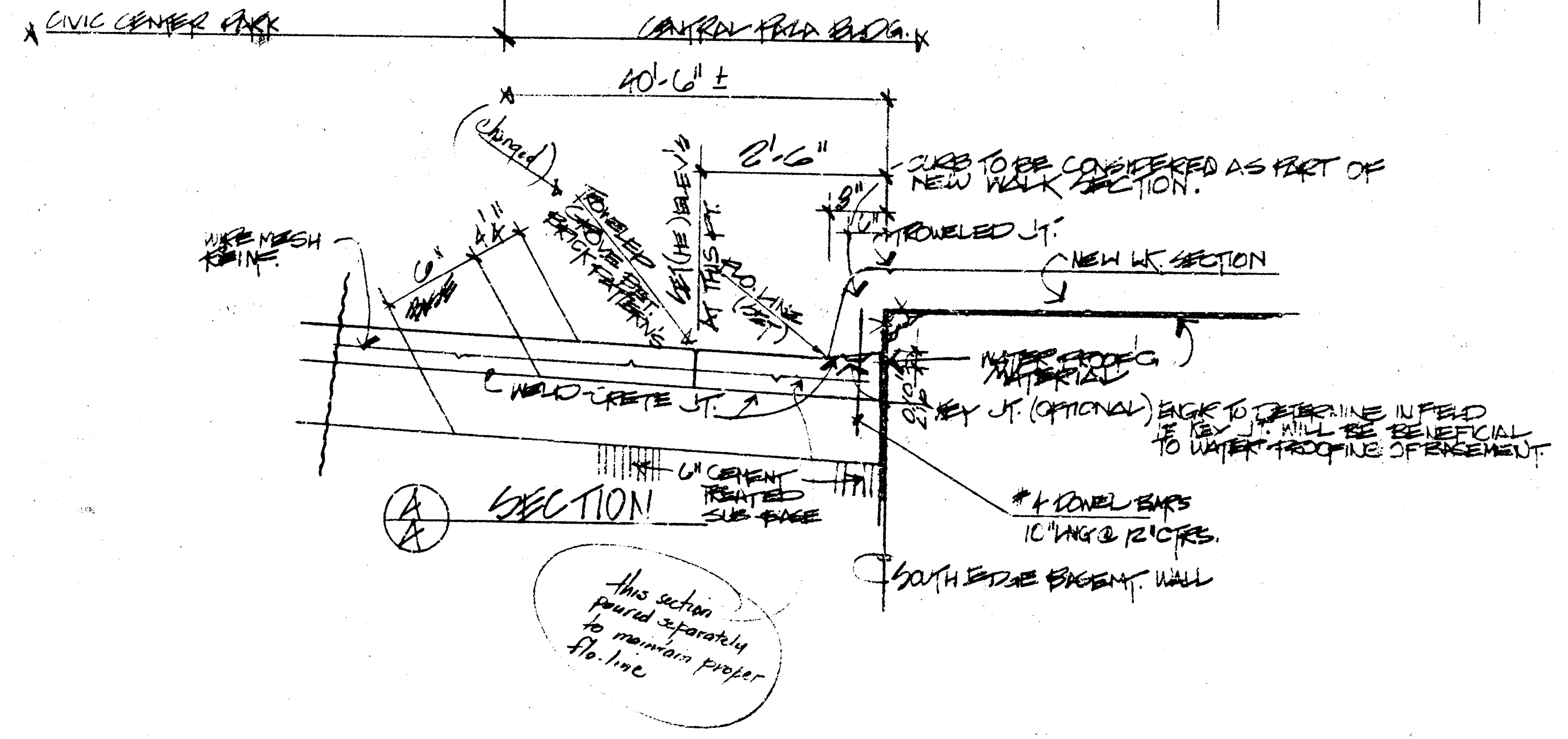
Brick Panels in walk areas to be laid longitudinal w/ Douglas Avenue.

NOTE - BID PRICE for Sidewalk Brick Paneling will include sand cushion, brick & sand filler.

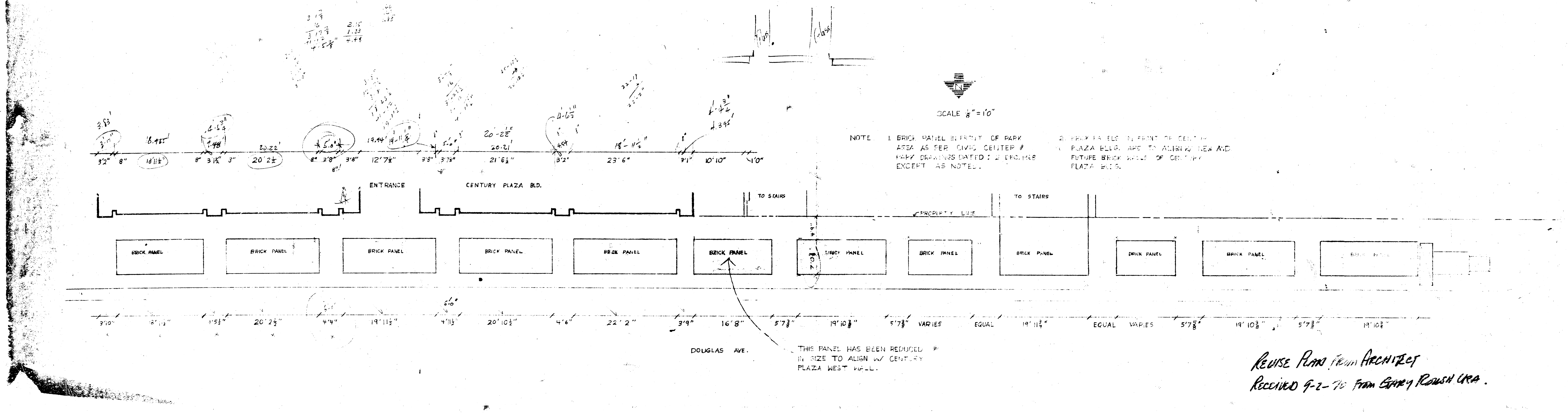
"2" drain tubes incidental to bid price of 7½" walk."


N
WATER ST.
MAIN ST.
EXIST'G BRICK PANELED WALK @ 1st NAT'L BANK
END NON-STD. CONS. C&G @ BEG. OF 16'-0" BRICK PATTERN
W.S. 1st NAT'L BANK BASEMENT WALL (ENGR. TO VERIFY)
BEG. NEW BASE WIDTH CONST.
N. DOUGLAS AVE.
EASEMENT WALL
E.S. 1st NAT'L BANK BASEMENT
SEE DETAIL
BRICK PATTERN
30'-0"
5'
16'-0"
10'-0"
41'-0"
51'-0"
R.W.
15'-0"
SOUTH ½ DOUGLAS AVE. CONST. TO REMAIN AS PER PLAN.


2'-0"
2'-3"(+)
WELD-CRETE JT.
1'-6"
TROWELED JT.
GUTTER SECTION
NEW WALK CONST.
#4 DOWEL BARS @ 12" CTRS.
6" CEMENT-TREATED SUB-BASE
WATER-PROOFING MATERIAL
E.S. BASEMENT WALL
B
B
SECTION


CIVIC CENTER PARK
CENTRAL PLAZA BLDG.
40'-6" ±
(changed)
2'-6"
CURB TO BE CONSIDERED AS PART OF NEW WALK SECTION.
8"
TROWELED JT.
NEW WK. SECTION
WIRE MESH REINF.
6"
BASE
TROWELED GROOVE BRICK PATTERN'S
AT THIS PT.
FLO. LINE
WATER-PROOFG. MATERIAL
WELD-CRETE JT.
KEY JT. (OPTIONAL) ENGR. TO DETERMINE IN FIELD IF KEY JT. WILL BE BENEFICIAL TO WATER-PROOFING OF BASEMENT.
#4 DOWEL BARS 10" LNG. @ 12" CTRS.
6" CEMENT TREATED SUB-BASE
A
A
SECTION
SOUTH EDGE BASEMT. WALL
this section poured separately to maintain proper flo. line

CONSTRUCTION REVISION ON DOUGLAS AVE.
WATER STREET TO MAIN STREET VRA-R-19 7-31-70


ENTRANCE
CENTURY PLAZA BLD.
BRICK PANEL
TO STAIRS
PROPERTY LINE
DOUGLAS AVE.
3'2"
8"
8"
3'1½"
3"
20'2½"
3'8"
3'6"
12'7⅜"
21'6½"
3'2"
23'6"
9'1"
10'10"
1'0"
3'10"
4'4"
19'11½"
20'10½"
4'6"
22'2"
3'9"
16'8"
5'7⅜"
19'10⅜"
VARIES
EQUAL
19'11¼"
19'10⅜"

SCALE ⅛" = 1'0"

NOTE 1. BRICK PANEL IN FRONT OF PARK AREA AS PER CIVIC CENTER PARK DRAWINGS DATED 2 DEC. 1968 EXCEPT AS NOTED.

2. BRICK PANELS IN FRONT OF CENTURY PLAZA BLDG. ARE TO ALIGN W/ NEW AND FUTURE BRICK WALLS OF CENTURY PLAZA BLDG.

THIS PANEL HAS BEEN REDUCED IN SIZE TO ALIGN W/ CENTURY PLAZA WEST WALL.

Revise Plan from Architect
Received 9-2-75 from Gary Roush URA.