S.W.D. 41

STORM CHANNEL IN TY-CEN ADDITION

PROJECT NO.
468-76-245-80890-000-000-001

CITY OF WICHITA, KANSAS

R.W. BRUGGEMAN: DIRECTOR OF ENGINEERING/CITY ENGINEER

NOTES TO CONTRACTOR & FIELD ENGINEER

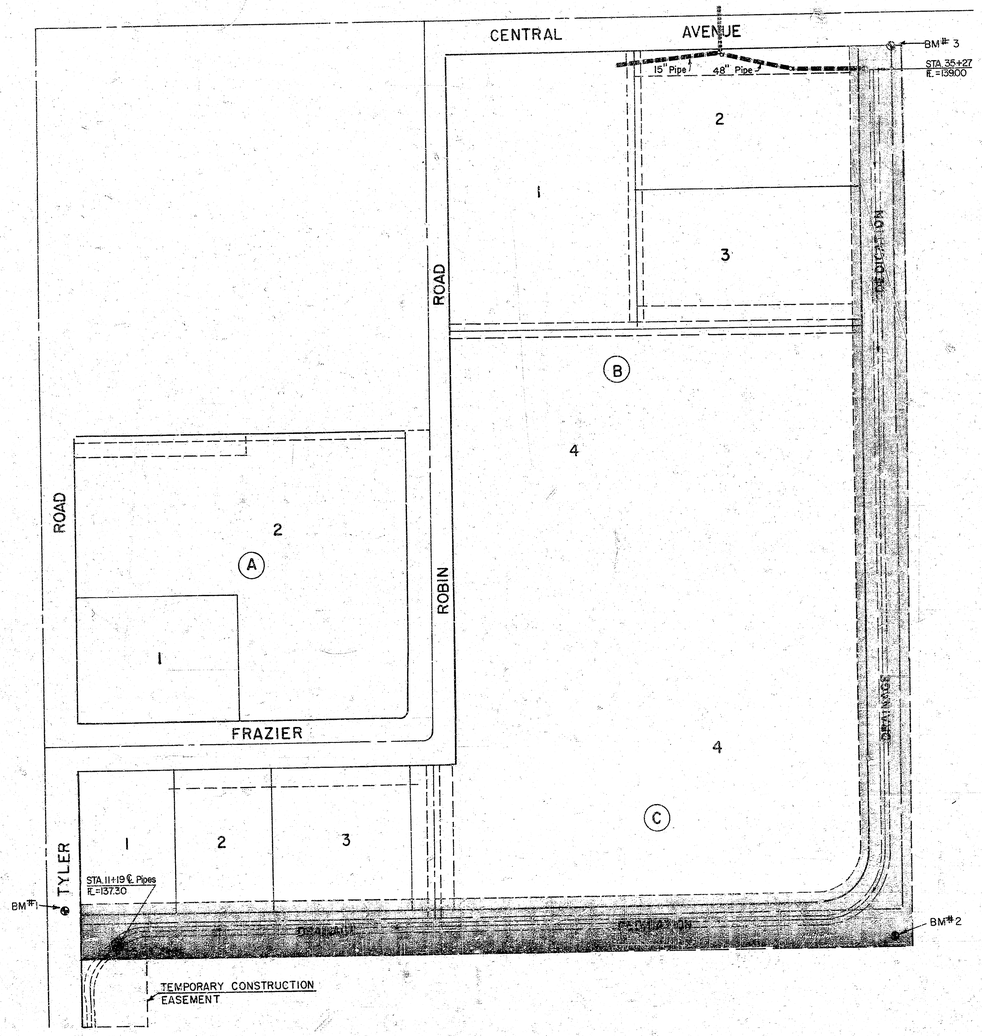
1. THE PROJECT WAS PARTIALLY COMPLETED BY PRIVATE PROJECT. THIS CONTRACT WILL INVOLVE COMPLETING ALL WORK AS SHOWN ON PLANS FROM STATION 15+85± TO THE WEST END OF THE PROJECT. FROM STATION 15+85± TO THE EAST AND NORTH WORK WILL INVOLVE CORRECTING OR COMPLETING PREVIOUS WORK TO BRING ENTIRE PROJECT INTO CONFORMANCE WITH THE CONSTRUCTION PLANS.
2. CONTRACTOR SHOULD MAKE A FIELD INSPECTION OF THIS SITE TO VERIFY EXISTING CONDITIONS BEFORE BIDDING THE PROJECT.
3. FIELD ENGINEER TO TAKE CROSS-SECTIONS BEFORE BEGINNING CONSTRUCTION.
4. CHANNEL WORK IS TO BE COMPLETED IN TIME FOR SPRING SEEDING SEASON.
5. PIPE INSTALLATION SHOWN ON SHEET 7 IS IN PLACE AND CAN BE DISREGARDED FOR THIS CONTRACT.
6. INSTALL RIP-RAP (TYPE III) AT PIPE OUTFALLS IN EXISTING CHANNEL; RIP-RAP TO BE 5 FT. WIDE AND 10 FT. LONG.
7. ON SHEET 3 SANITARY SEWER RELOCATION IS TO BE PERFORMED IN THE FOLLOWING MANNER. UPSTREAM MANHOLE IS NOT TO BE PLUGGED. EIGHT INCH CAST IRON PIPE SHOWN IS TO BE 8" DUCTILE IRON PIPE. ENCASEMENT 8" SANITARY IS TO INCLUDE 2 FT. TOEWALL.

N

SCALE: 1" = 100'

GENERAL NOTES

1. FIELD ENGINEER SHALL TAKE TIES TO ALL IRONS AND THIMBLES IN THE PROJECT AREA BEFORE CONSTRUCTION BEGINS. FIELD ENGINEER SHALL REPLACE ALL SUCH IRONS AND THIMBLES DISTURBED DURING CONSTRUCTION.
2. THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FILED ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING LANS OF THE PERTINENT STREETS.
3. ALL METAL PIPES SHALL BE HELICALLY CORRUGATED PIPE FULLY COATED BOTH INSIDE AND OUTSIDE. THE COATING MAY BE BITUMINOUS OR POLYMERIC AS SPECIFIED IN AASHTO DESIGNATION: M246 - 78, TYPE B. ALL SUCH COATED CORRUGATED PIPE SHALL BE SMOOTH FLOW PIPES FOR SIZES 24" DIAMETER OR LARGER. ALL CONNECTIONS FOR THESE FULLY COATED OR FULLY PAVED AND FULLY ASPHALT COATED PIPES SHALL BE FAIRLY WATERTIGHT CONSTRUCTED USING HUGGER TYPE COUPLER OR EQUAL.
4. ALL CONCRETE SHALL BE "6 - SACK CONCRETE" UNLESS OTHERWISE NOTED.
5. THE RIPRAP FOR THIS PROJECT SHALL BE TYPE 3 AND TYPE 4. THE TYPE 3 RIPRAP SHALL BE 12" RIPRAP ON 6" SAND AND GRAVEL BEDDING. THE SIZE RANGE OF ROCK FOR TYPE 3 SHALL BE A MAXIMUM OF ONE CUBIC FOOT AND A MINIMUM OF 1 1/2 INCH. THE TYPE 4 RIPRAP SHALL BE 18" RIPRAP ON A 6" SAND AND GRAVEL BEDDING. THE SIZE RANGE OF ROCK FOR TYPE 4 SHALL BE A MAXIMUM OF 1/8 CUBIC YARD AND A MINIMUM OF 1/10 CUBIC FOOT. THE ROCK FOR RIPRAP AND GRAVEL PROTECTION SHALL BE HARD, DENSE, DURABLE AND SHALL BE REASONABLY WELL GRADED. THE 6 INCH SAND AND GRAVEL BEDDING FOR RIPRAP SHALL BE A CONTINUOUS LAYER OF SAND AND GRAVEL OR SAND AND CRUSHED ROCK, REASONABLY WELL GRADED TO A MAXIMUM OF 1 1/2 INCHES IN SIZE.
6. CONTRACTOR SHALL AVOID UNCOVERING EXISTING WATER LINES UNLESS ABSOLUTELY NECESSARY. UNCOVERING SHALL BE DONE ONLY IN THE PRESENCE OF A WATER DEPARTMENT ENGINEER.



INDEX TO DRAWINGS

SHT. NO.	DESCRIPTION
1	TITLE SHEET
2-7	PLAN & PROFILE
8-12	CROSS SECTIONS

4-11-90

468-76-245-80890-000-000-098

Van Doren - Hazard - Stallings
Architects • Engineers • Planners
Topeka Wichita Minneapolis

Sheet 1 of

22K36

S.W.D. NO. 41, PRIVATE PROJECT NO.
468·76·245·80890·000·000·001

B.M. #1: Step Spike in E. face Power Pole
Elev.: 146.40

TYLER ROAD

Lot 1 Block C

Lot 2 Block C

Lot 3 Block C

15' Maintenance Access & Underground Utility Esmt.

36"x 29" Stks. by others

18' Drainage Dedication

150'

615'

South line of Gen. Dedication

Sign

East R/W Tyler Road

54'

37'

Sign

Sidewalk

Δ=44°28'18"
R=60'

Tree to remain

D+38.8
P.C.

Δ=45°
R=60'

Type 3 Riprap

R=60'

C1485.4
P.T.

1111.9
P.C.

45°

53' Drainage Esmt.

Backstop

Lawerence E Wilbur Jr. High School

℄ of Channel

Waste well water discharge pipe Outlet +39.6

Scale: 1"=20' Horz.
1"=5' Vert.

Temporary Construction Esmt.

14' Exist. R/W

100'

9+82

Denotes trees to be removed.

℄ - 3.36' R.C.P.

3 @ 12' LF of 36" RCP @ 0.15 % W/ End Sections
or 3 @ 12' LF of 31" CMP @ 0.15 % W/ End Sections (fully paved)

18'

Top of Fill = 142.1

DWS

Exist. Channel ℄

Grade Channel Bottom to match existing ℄

Lt top of bank

Rt top of bank

Lt top of Bank (Exist)

Lt top of Bank

Rt top of Bank

14' Bottom Channel W 4:1 Side Slopes @ +0.15%

℄=137.86

℄=137.80

137.44

137.55

137.66

136.60

10 11 12 13 14 15 16

2

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Lot 4
Block C

20' Drainage Esmt.

20' Utility Esmt.

Scale : 1"=20' Horz.
1"=5' Vert.

15' Maintenance Access & Underground Utility Esmt.

12" SWS "by others"

12' Drainage Dedication

South 12 Tr-Cen Addition

℄ Channel

Waste well water discharge pipe

Remove 685 L.F. of Waste water pipe

Plug upstream MH. Remove 40 LF of exist 8" VCP & Install 40 LF of 8" cast Iron S.J. Pipe only under direct super vision of Field Engineer. Encase 40 LF of CIP W/3" Min. thickness Concrete (3000 psi Min.)

Existing MH

Backslope

53' Drainage Esmt.

16' San. Sewer Esmt.

℄ Lt & Rt. Top of Bank

Lt. Top of Bank

Rt. Top of Bank

Left Top of Bank (Exist)

Right Top of Bank (Exist)

DWS

14' Bottom Channel W/4:1 Side Slopes @+0.05%

℄ Bottom

8" San. Sewer E=4320

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Scale: 1"=20' Horz.
1"=5' Vert.

53' Drainage Easement

22

22+17.19

14.5'

10'

Remove pipe to here. Place Type 3 riprap around outlet

Backstop

Waste well water discharge pipe

Δ = 89° 28' 33"
R = 100'
T = 99.07'
L = 156.16'

112.16'

25

3 % Ty-Cen Add

23+73.35

24

25

26

27

28

℄ Channel

144

145

25'

E ℛ Ty-Cen Add.

50' Drainage Dedication

Lot 4
Block C

Ty-Cen Addition

15' Maintenance Access & Underground Utility Esmt.

18" SWS "by others"

774.81'

14' Bottom Channel

18" RCP

Relocate gate 15' East (by Owners)

BM #2 Top N end of 18" RCP Elev. = 144.45

Chain Link Fence relocate 15' East (by Owners)

15' Maintenance Access Esmt.

Chain Link Fence

Bishop Carroll High School

Left Top of Bank (Exist)

Right Top of Bank (Exist)

Lt top of Bank

Rt Top of Bank

DWS

14' Bottom Channel w/ 4:1 Side Slopes @ +0.05%

E. Bottom

145

140

135

138.55

138.40

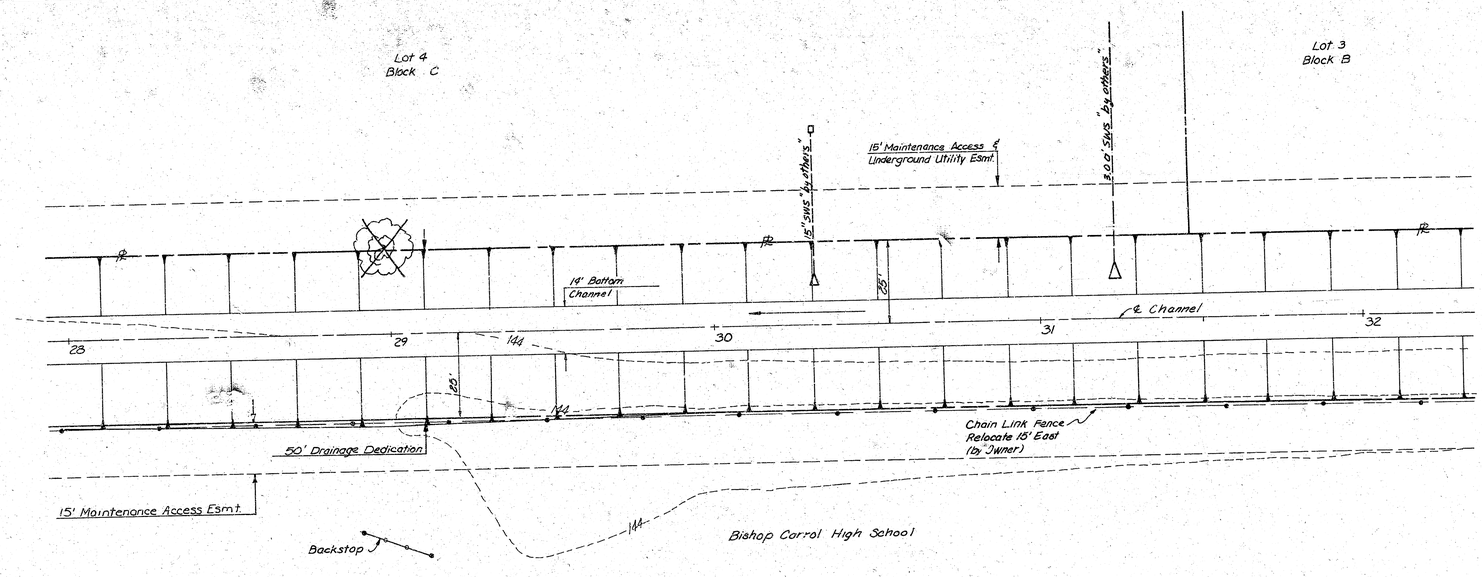
138.45

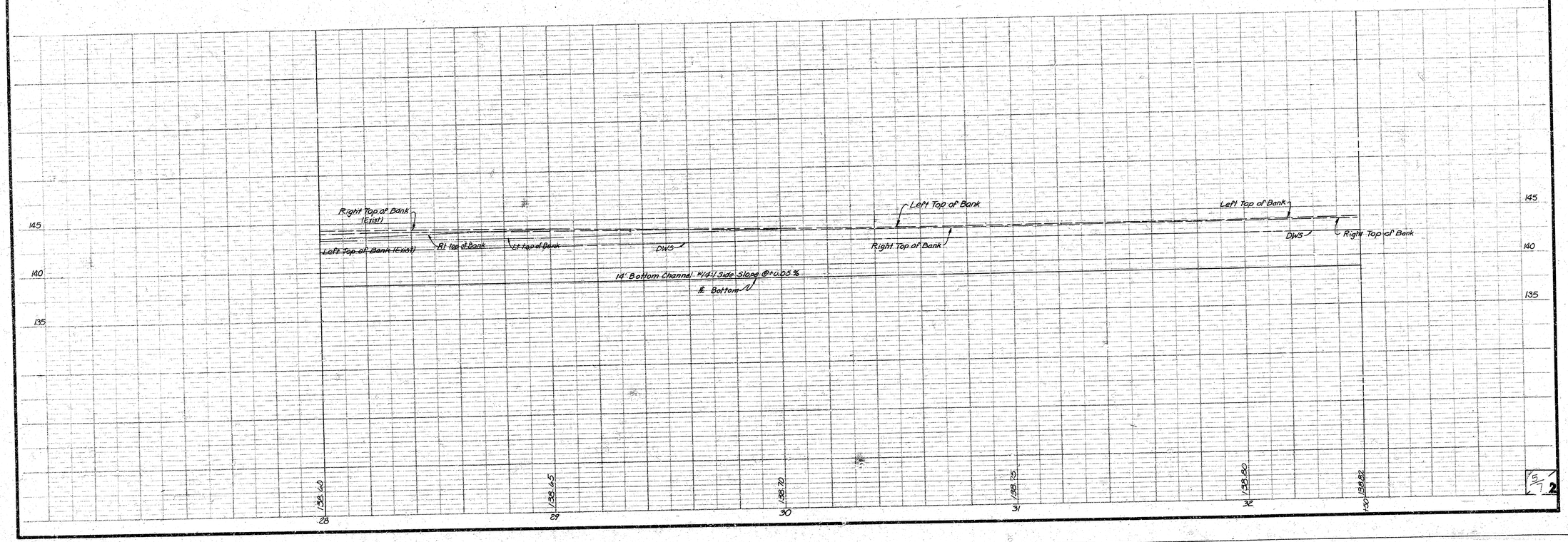
138.50

4/7 2

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Scale 1"=20' Horz.
1"=5' Vert.





S.W.D. NO. 4-I, PRIVATE PROJECT NO.
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Scale: 1"=20' Horz.
1"=5' Vert.

Lot 3
Block B

Ty-Cen Addition

Lot 2
Block B

See sht 7 for Details

South R/W
Central Ave.

CENTRAL AVE.

15' Maintenance Access & Underground Utility Esmt.

Sta 35+20.1

20.3.00'

14' Bottom Channel

℄ Channel

32 33 34 35

144 145

25'

Type 6 Rip Rap (See sht 7)

34'

Chain Link Fence Relocate 15' East (by Owner)

50' Drainage Dedication

BM # 3 Top of iron Elev = 146.93

15' Maintenance Access Esmt.

Bishop Carroll High School

Left Top of Bank (Exist)

Rt top of Bank

Lt top of Bank

Right Top of Bank (Exist)

Right Top of Bank (Exist)

Left Top of Bank (Exist)

DWS

DWS

14' Bottom Channel 4:1 side slope @ 0.05%

℄ bottom

145
140
135

139.80 139.85 139.90 139.95 139.00 (at end of channel)

32 33 34 35 4+31

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