SHEET NO.	TOTAL SHEETS
1	2

PRIVATE STORM WATER SEWER IMPROVEMENTS

IN

BUILDERS FIRST ADDITION

TO SERVE

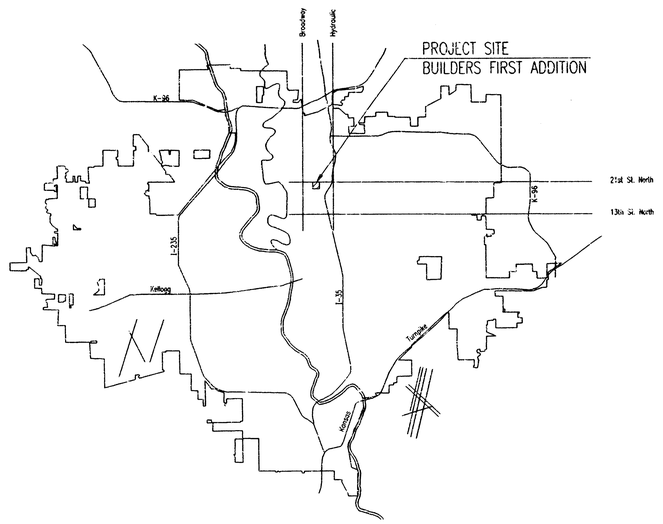
NEW HORIZON CENTER

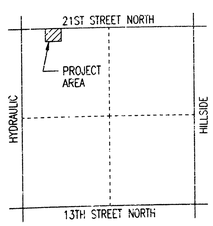
2151 E. 21ST STREET NORTH

CITY OF WICHITA PRIVATE PROJECT NO. 911 PPS (607861)

INDEX OF SHEETS

1. TITLE SHEET
2. PLAN





VICINITY MAP

JUNE 1999

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

SANITARY SEWERS _____

STORM SEWERS LRH 6/11/99

DRIVEWAY APPROACHES _____

WATER MAINS _____

PAVING _____

ATTACHMENT OF ENGINEER'S SEAL BELOW IS APPLICABLE TO DESIGN OF 15" STORM SEWER SYSTEM ONLY.

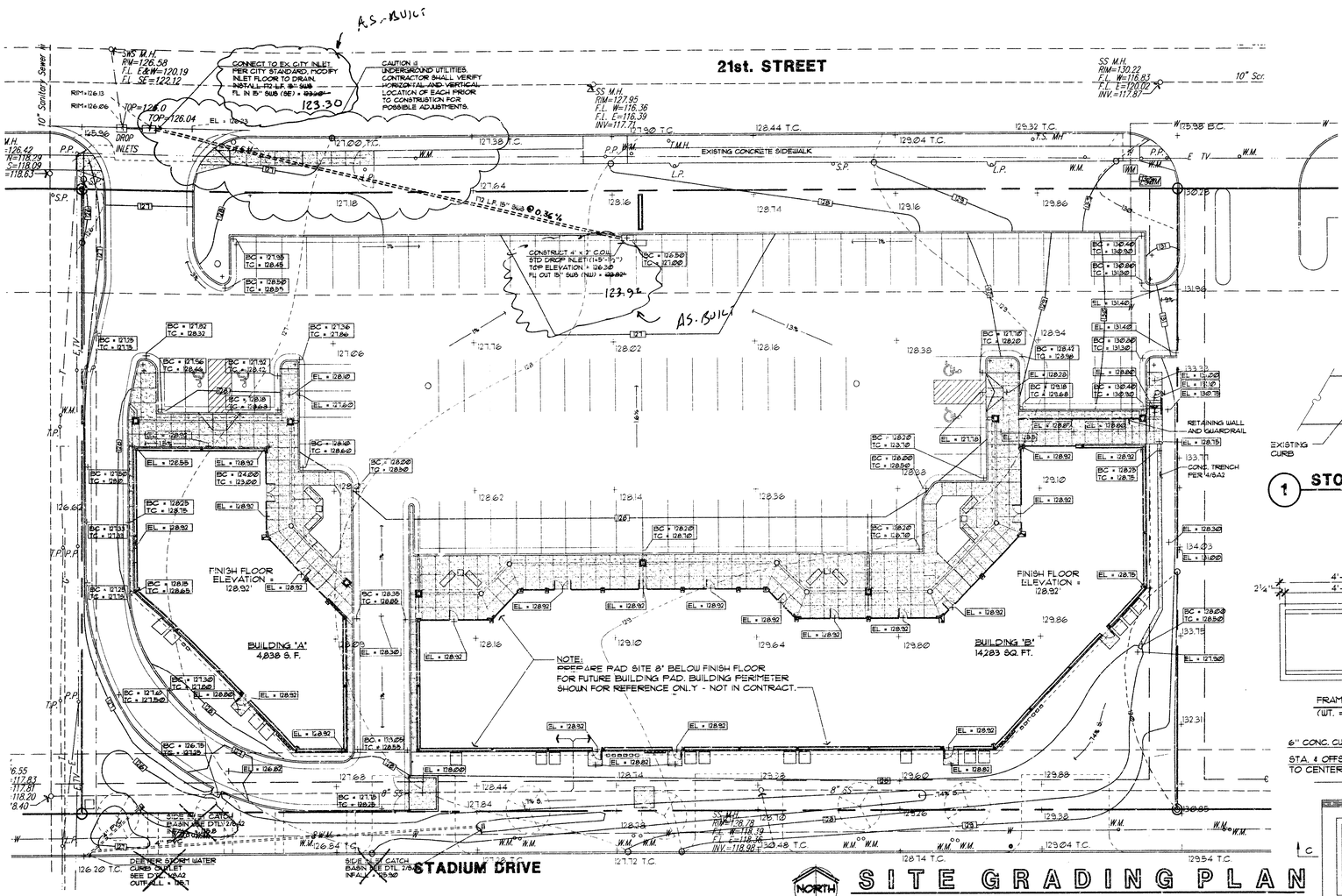
DARWIN R. CROSS
LICENSED
14896
6-11-99
KANSAS
PROFESSIONAL ENGINEER

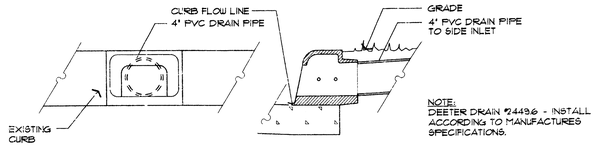
NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM CONTRACTED BY THE CONTRACTOR. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR UNTIL SUCH INSPECTION IS ARRANGED FOR AND REQUIRED BONDS HAVE BEEN SUBMITTED TO AND APPROVED BY THE CITY NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER. IMPROVEMENTS PERFORMED UNDER THIS PROJECT SHALL NOT BE ACCEPTED BY THE CITY UNTIL ALL APPLICABLE DOCUMENTATION HAS BEEN SUBMITTED TO THE CITY ENGINEER. THIS MAY INCLUDE: AS-BUILT DRAWINGS, INSPECTION LOGS, TEST DOCUMENTATION, TV TAPES, AND A CERTIFICATE OF COMPLETION. THE ABOVE SHAL BE PERFORMED BY THE CONSULTING FIRM CONTRACTED TO INSPECT THIS PROJECT.

Booked
9-25-01
MCG
D-521

B.K.
AS-BUILT ; 10/5/99

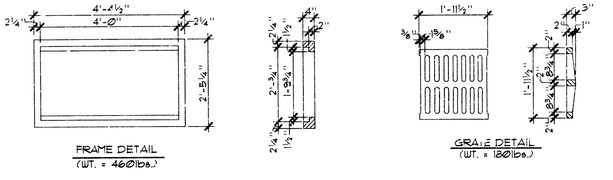




NOTE: DEETER DRAIN #2449.6 - INSTALL ACCORDING TO MANUFACTURES SPECIFICATIONS.

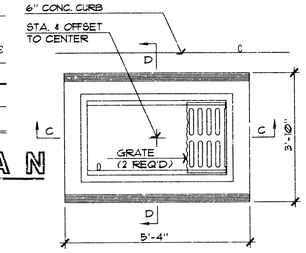
1 STORM WATER CURB OPENING

(NO SCALE)

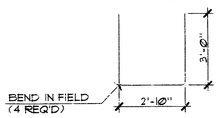


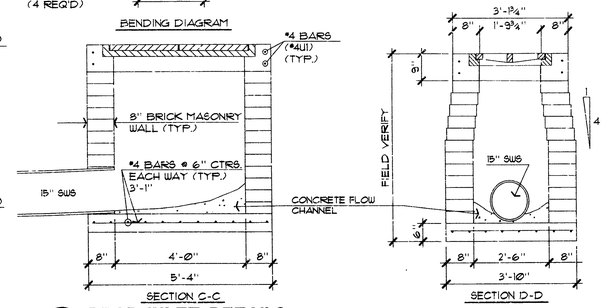
FRAME DETAIL (WT. = 460lbs.)

GRATE DETAIL (WT. = 180lbs.)



PLAN





3 DROP INLET DETAILS

(NO SCALE)

GENERAL NOTES

CONCRETE SHALL BE C.O.W. STANDARD PAVING MIX. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN APPROVED EDGING TOOL.

REINFORCING STEEL SHALL BE A MINIMUM GRADE 40, A.S.T.M. A615. ALL DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO THE CENTERLINE OF BARS UNLESS OTHERWISE NOTED.

INLET CASTING SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM SLUGHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

CONSTRUCTION REQUIREMENTS AND MATERIALS FOR MASONRY WALLS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

INLET FLOOR SHALL BE SHAPED WITH UNREINFORCED CONCRETE (8 SACK SAND MIX) TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

AREA INLETS SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH. THIS SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EXCAVATION, BACKFILLING, MATERIALS, LABOR, CONNECTION TO EXISTING STRUCTURES (IF REQUIRED), EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

SITE GRADING PLAN

1" = 20' - 0"

GENERAL GRADING LEGEND:

- 1284.19 — SPOT ELEVATIONS EXISTING
- 1284.19 — SPOT ELEVATIONS NEW
- NEW CONTOUR LINE ONE FOOT HORIZ. INTERVAL
- POINT OF CONNECTION
- EXISTING CONTOUR LINE ONE FOOT HORIZ. INTERVAL
- EXISTING CONTOUR LINE ONE FOOT HORIZ. INTERVAL
- EXISTING CONTOUR LINE FIVE FOOT HORIZ. INTERVAL
- NEW CONTOUR LINE ONE FOOT HORIZ. INTERVAL
- NEW CONTOUR LINE FIVE FOOT HORIZ. INTERVAL
- S — SWALE
- 1% — SWALE DIRECTION AND SLOPE OF SURFACE DRAINAGE
- BENCHMARK
- UNDERGROUND STORM SEWER DRAINAGE PIPE

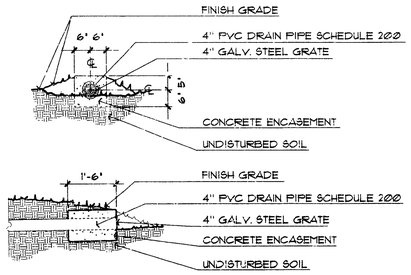
BENCHMARK:

C.O.W. BRASS DISC 41.08' SOUTH AND 11.26' WEST OF CENTERLINES OF 21st STREET NORTH AND GROVE STREET

CITY DATUM ELEVATION = 1322.0'

GENERAL GRADING NOTES:

1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN DRAWN FROM AVAILABLE RECORDS. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES IN/OR ADJACENT TO THE SITE PRIOR THE COMMENCING CONSTRUCTION OPERATIONS. BY CONTACTING KANSAS ONE-CALL CENTER AT (316) 681-2410 A MINIMUM OF 48 HOURS BEFORE EARTHWORK OPERATIONS.
2. EXISTING CONDITIONS SHALL BE VERIFIED BY GENERAL CONTRACTOR. DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.
3. ALL WEEDS, TRASH, DEBRIS, RUBBLE, BROKEN ASPHALT, ORGANIC MATERIAL (EXCLUDING TOPSOIL) AND REFUSE OR ANY OTHER MATERIAL WHICH WOULD BE DELETERIOUS AS FILL MATERIAL OR INCAPABLE OF SUPPORTING THE BUILDING VEHICULAR AND/OR OVERBURDEN LOADS TO BE IMPOSED SHALL BE CLEARED, GRUBBED OR EXCAVATED AS THE CASE MAY DICTATE.
4. CONTOUR INTERVAL FOR EXISTING AND PROPOSED CONTOUR LINES IS 1'-0" (ONE FOOT).
5. PROPOSED CONTOURS SHOWN ARE FINISH GRADES AND READ TO TOP OF PAVEMENT AND FINISH DIRT GRADE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT GRADED AREAS FROM, AND AS NECESSARY RESTORE TO GRADE, ANY RUTS, WASHES OR OTHER CHANGES FROM THE DESIGN ELEVATIONS SHOWN HEREON, UNTIL GRADING WORK IS ACCEPTED BY THE OWNER AND ARCHITECT.
7. THE CONTRACTOR SHALL RESTORE TO THE ORIGINAL CONDITION ADJACENT (OFF-SITE) PROPERTY DISTURBED BY HIS OPERATIONS.
8. THE GENERAL CONTRACTOR SHALL STRIP TOPSOIL FROM CONSTRUCTION AREAS AND STOCKPILE TOPSOIL. PLACE TOPSOIL IN A MANNER SO AS TO NOT CONFLICT WITH OTHER TRADES AND CONSTRUCTION OPERATIONS.
9. ALL GRADING SHALL BE DONE TO INSURE POSITIVE DRAINAGE AWAY FROM FOUNDATIONS AND STRUCTURES.
10. ANY FILL MATERIAL REQUIRED TO BRING GRADES UP TO PROPOSED ELEVATIONS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
11. ALL SIDEWALKS SHALL BE GRADED TO SLOPES NO GREATER THAN 1:20 (5%) IN DIRECTION OF TRAVEL. CROSS SLOPES TO BE NO GREATER THAN 1:5 (2%).
12. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTING 4" OF TOPSOIL THROUGHOUT THE LAWN AND PLANTING AREAS. AREAS ARE TO BE FREE OF CONSTRUCTION DEBRIS BEFORE SPREADING TOPSOIL. ROUGH GRADING IS RESPONSIBILITY OF EARTH WORK CONTRACTOR. LANDSCAPE CONTRACTOR TO BE RESPONSIBLE FOR FINISH GRADING.
13. CONSTRUCTION OF STORM SEWER SYSTEM, REQUIRES APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS. UNDER "PROCEDURES FOR CONSTRUCTION OF PUBLIC IMPROVEMENT BY PRIVATE CONTRACT," CONTRACTOR RESPONSIBLE FOR ALL PERMIT FEES, ENGINEERED DRAWINGS, ETC. TO OBTAIN APPROVAL.
14. THE UTILITY LOCATIONS REPRESENTED ON THIS GRADING PLAN WERE COMPILED BY BOTH FIELD OBSERVATIONS AND INFORMATION FROM THE VARIOUS UTILITY COMPANIES. FOR CONSTRUCTION AND RELOCATION ON THIS SITE THE VARIOUS UTILITY COMPANIES SHOULD BE REQUESTED TO VERIFY THEIR LOCATIONS IN THE FIELD PRIOR TO FINAL DESIGN OR CONSTRUCTION.
15. EXISTING TREES SHALL REMAIN AS NOTED ON LAY-OUT PLAN. PROTECT TREES WITH SNOW FENCE UNTIL END OF PROJECT.



2 SIDE INLET STORM DRAIN

(NO SCALE)

AS-BUILT; 10/5/99; B.K.

architecture site planning interior design graphics
105 N. Washington
Wichita, Kansas 67202
316 . 262 . 4700
fax 316 . 262 . 0002

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NEW HORIZON CHURCH CENTER

2151 EAST 21st STREET
WICHITA, KANSAS

PRINTS ISSUED
6/10/99

WDM No.	d.b.	SDW
96031	c.t.	LME

SITE GRADING AND DRAINAGE PLAN

SA2

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40 of 10 of 8f

Time: 0
Date: 2/26/99
Drawing Name: P:\96031\SITE\96031SA2.DWG
Xrefs None