SHEET NO.	TOTAL SHEETS
C1	3

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER

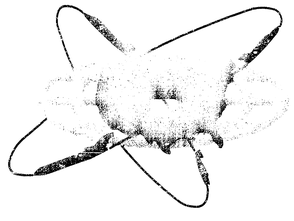
STORM WATER SEWER IMPROVEMENTS
IN
WICHITA MUNICIPAL AIRPORT ADDITION
CITY OF WICHITA PRIVATE PROJECT NO. 1101PPS (607861)

INDEX OF SHEETS

C1 TITLE
C2 GRADING PLAN
C3 REINFORCED CONCRETE INLETS AND MANHOLES



SCALE: 1"=200'



GENERAL NOTES

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. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION. CONTRACTOR SHALL SATISFY HIMSELF OF SUBSURFACE CONDITIONS PRIOR TO BIDDING.

RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR AND APPROVED AS NOTED.

ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

ALL AREAS DISTURBED DURING CONNSTRUCTION SHALL BE SEEDED, FERTILIZED, AND MULCHED ACCORDING TO CITY OF WICHITA STANDARDS AND SPECIFICATIONS.

RECORD DRAWING
APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

SANITARY SEWERS _____
STORM SEWERS VRH 4/6/01
DRIVEWAY APPROACHES _____
WATER MAINS _____
PAVING _____

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM CONTRACTED BY THE OWNER/DEVELOPER. 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.

AIRPORT REFERENCE CODE (ARC) D - IV

MARCH 2001

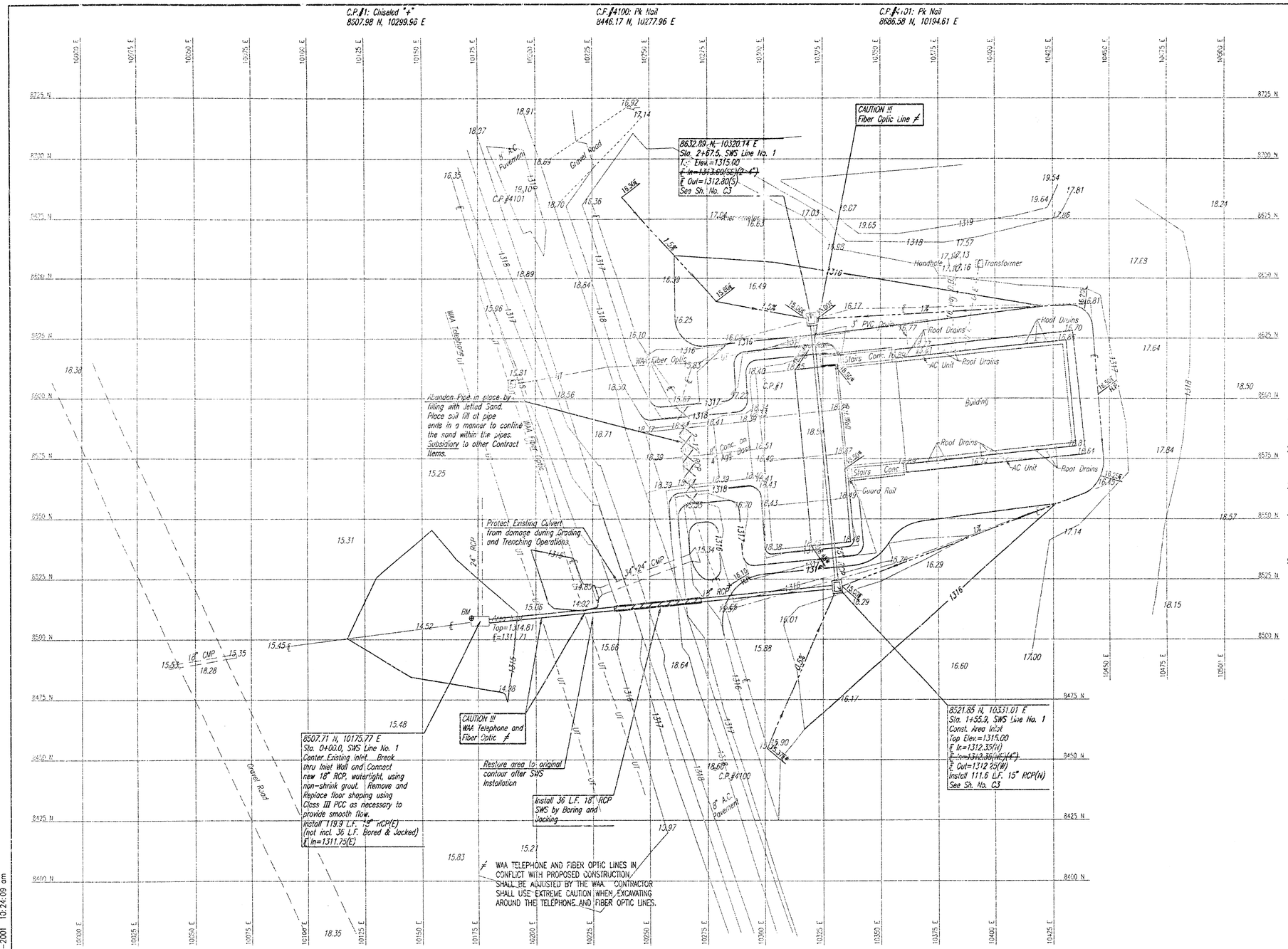
PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

DSNR: KER OPER: SAD SCALE: 1=200.00
Q:\2000\20389\Private SWS\TITLE 03-29-2001 10:22:44 am

C.P.#1: Chiseled "+"
8507.98 N, 10299.96 E

C.P.#4100: Pk Nail
8446.17 N, 10277.96 E

C.P.#4101: Pk Nail
8686.58 N, 10194.61 E



SCALE: 1"=20'

LEGEND

* MATCH EXISTING ELEVATION

GENERAL NOTES

1. GRADE THE SITE TO THE CONTOURS SHOWN. HORIZONTAL CONTROL MAY BE SCALED FROM THE DRAWING USING THE COORDINATE GRID.
2. REMOVE AND DISPOSE OF ON AIRPORT PROPERTY ALL EXISTING VEGETATION WHERE GRADING WILL OCCUR. STRIP AND STOCKPILE TOPSOIL FOR REUSE ON THE PROJECT. DISPOSE OF EXCESS TOPSOIL ON AIRPORT PROPERTY.
3. THE TOP 4" OF ALL AREAS TO BE SEEDED SHALL BE DRESSED WITH SALVAGED TOPSOIL.
4. FILL MATERIAL IN TURF AREAS SHALL BE COMPACTED TO 90% STD. PROCTOR DENSITY. FILL AND/OR BACKFILL BENEATH PAVEMENT OR SIDEWALK SHALL BE PLACED IN 8" MAX. LOOSE LIFTS AND COMPACTED TO 98% STD. PROCTOR DENSITY.
5. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE LOCAL FAA AIRWAYS FACILITIES TO VERIFY THE LOCATION OF FAA CABLES.

* WAA TELEPHONE AND FIBER OPTIC LINES IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE ADJUSTED BY THE WAA. CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXCAVATING AROUND THE TELEPHONE AND FIBER OPTIC LINES.

B.M. Railroad Spike in N.W. Corner Inlet
Elev.=1314.80

RECORD DRAWING

No.	Revision	By	Date

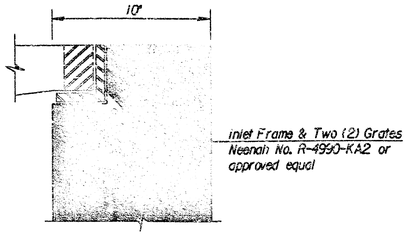
WICHITA MID-CONTINENT AIRPORT ELECTRICAL VAULT IMPROVEMENTS

GRADING PLAN

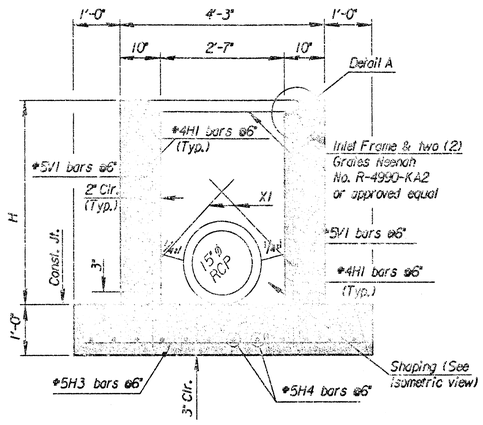
Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by DRC	Job No. 00389	Sht. C2 of 3
Drawn by DEP	Date 10/5/00	

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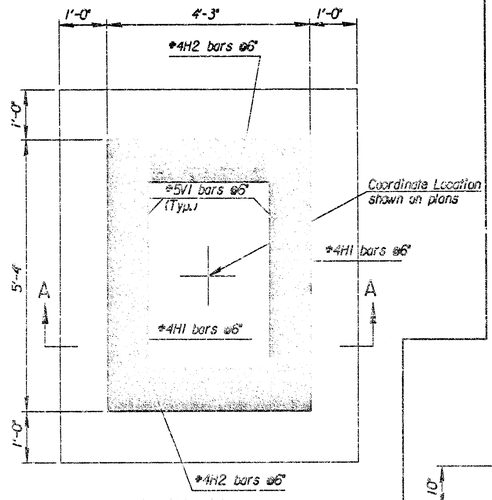
DETAIL A



SECTION A-A
Field align inlets parallel to new RCP

AREA INLET

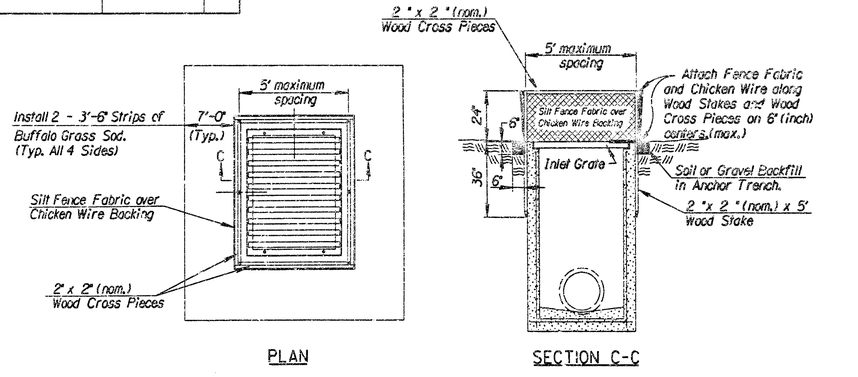
SCHEDULE FOR AREA INLETS		
LOCATION	SWS STA.	H
8521.85N, 10331.01E	1+55.9	3'
8632.89N, 10320.14E	2+67.5	3'



PLAN SECTION

BILL OF MATERIALS FOR AREA INLETS 3'-0" Wall Height			
Bar	No.	Size	Length
V1	28	#5	3'-5"
H1	12	#4	5'-0"
H2	12	#4	3'-11"
H3	14	#5	5'-11"
H4	12	#5	7'-0"
X1	2	#5	3'-6"
Class II Conc.(AE) 3.16 Cu.Yd.			
Reinf. steel 355 Lbs.			
Excavation 17.2 Cu.Yd.			
Cast Iron 722 Lbs.			

BILL OF MATERIALS FOR AREA INLETS 4'-0" Wall Height			
Bar	No.	Size	Length
V1	28	#5	4'-6"
H1	12	#4	5'-0"
H2	12	#4	3'-11"
H3	14	#5	5'-11"
H4	12	#5	7'-0"
X1	4	#5	3'-6"
Class II Conc.(AE) 3.71 Cu.Yd.			
Reinf. steel 392 Lbs.			
Excavation 21.5 Cu.Yd.			
Cast Iron 722 Lbs.			



PLAN SECTION C-C

TEMPORARY INLET SEDIMENT BARRIER AND PERMANENT SEEDING
NO SCALE

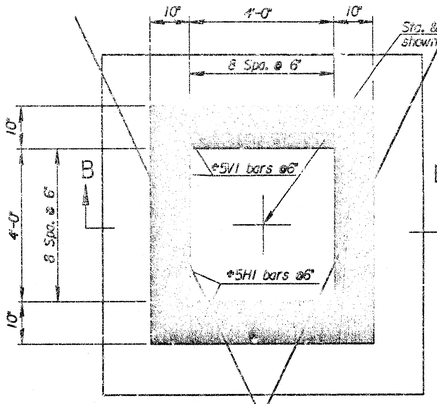
Inlet Sediment Barrier and Buffalo Grass Sod to be Subsidiary to Permanent Seeding.

BILL OF MATERIALS FOR MANHOLE 5'-0" Wall Height Located at Taxiway E3 Sta. 6+50.24, 67.50' Lt.			
Bar	No.	Size	Length
V1	36	#5	5'-7"
H1	32	#5	5'-5"
H2	32	#5	7'-4"
H3	20	#6	5'-4"
H4	8	#6	5'-2"
H5	4	#6	4'-2"
X1	4	#5	4'-0"
Class II Conc.(AE) 5.6 Cu.Yd.			
Reinf. steel 705 Lbs.			
Excavation 33.2 Cu.Yd.			
Cast Iron 440 Lbs.			

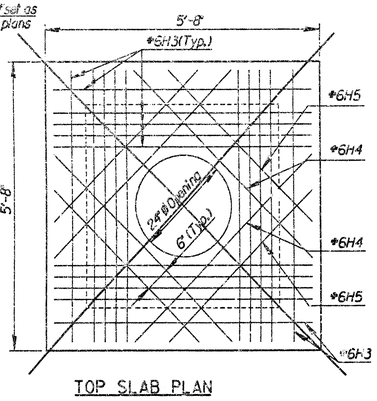
Quantities for inlets and Manhole are for information only.

GENERAL NOTES

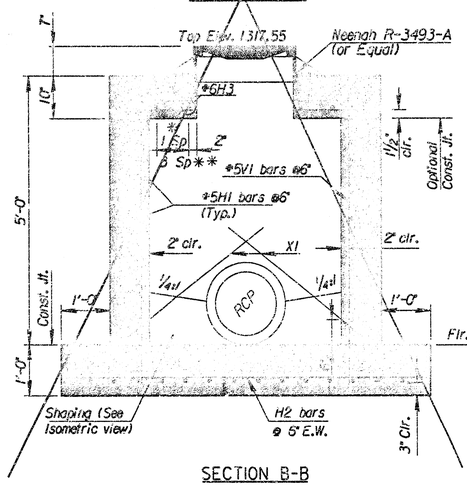
1. *Class II Concrete (AE)(P-610) shall be used throughout. Bevel all exposed edges with a 3/4" triangular molding or with an approved edging tool.*
2. *Reinforcing steel shall be a minimum Grade 60, ASTM A615. All bars shall have a minimum clearance of 2" unless otherwise noted on the plans.*
3. *All dimensions relative to placement of Reinforcing are to the centerline of bars unless otherwise noted.*
4. *Pipes will enter and leave the inlets or manhole at various positions. Field bend or cut reinforcing to clear pipes. See plan sheets for I.E. elevations for RCP's.*
5. *Inlet invert shall be shaped with unreinforced Class II Concrete (P-610) to create flow channels and to increase hydraulic efficiency such that the inlet or manhole will be self cleaning between all inlet and/or outlet pipes. (See Isometric View, this sheet.)*
6. *The Area Inlet grate must be certified by the manufacturer as being capable of supporting a design wheel load of at least 200 P.S.I. All castings shall be grey iron.*
7. *The Manhole Ring and Cover must be certified by the manufacturer as being capable of supporting an aircraft wheel load of at least 100,000 lbs.*



PLAN SECTION

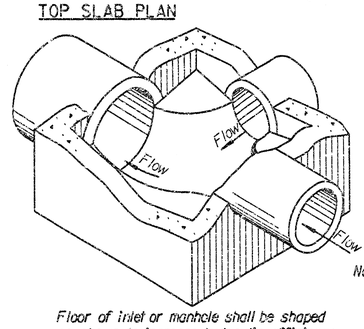


TOP SLAB PLAN



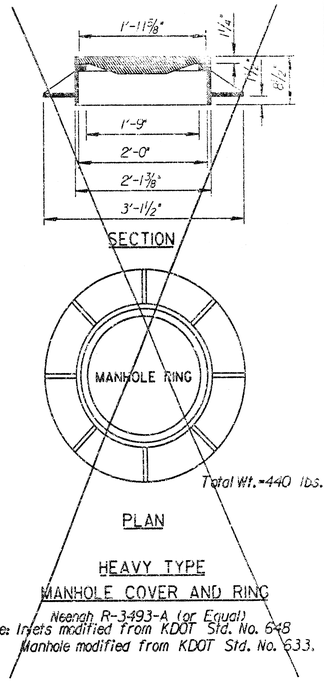
SECTION B-B

~~MANHOLE~~
~~*Field align manhole parallel to existing RCP*~~



Floor of inlet or manhole shall be shaped as shown to increase hydraulic efficiency.

ISOMETRIC VIEW



PLAN

HEAVY TYPE
MANHOLE COVER AND RING
Neenah R-3493-A (or Equal)
Note: Inlets modified from KDOT Std. No. 648
Manhole modified from KDOT Std. No. 633.

RECORD DRAWING
Bid Set

No.	Revisions	By	Date
1			

THE WICHITA AIRPORT AUTHORITY
MID-CONTINENT AIRPORT WICHITA, KANSAS

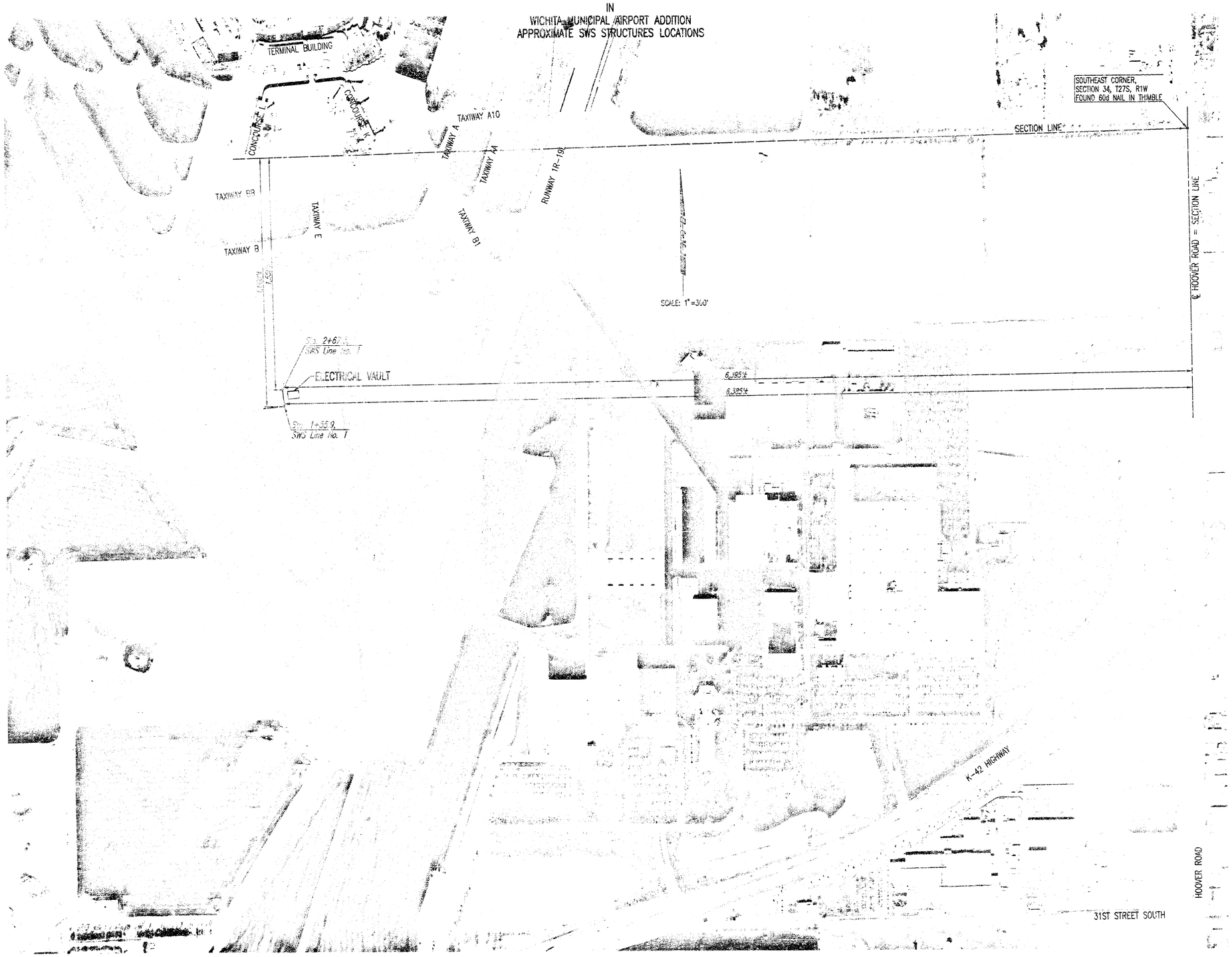
REINFORCED CONCRETE INLETS AND MANHOLES

AIP PROJECT NO. 3-20-0088-31

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	DAR	Checked by	
Drawn by	DJW	Date 10/5/00	Job No. 00389

STORM WATER SEWER IMPROVEMENTS
IN
WICHITA MUNICIPAL AIRPORT ADDITION
APPROXIMATE SWS STRUCTURES LOCATIONS



Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

DSNR: KER OPER: SAD SCALE: 1=300.00
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