

SHEET NO.	TOTAL SHEETS
1	6

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

STORM WATER SEWER IMPROVEMENTS

IN
EAST TURNPIKE ENTRANCE 2ND ADDITION
CITY OF WICHITA PRIVATE PROJECT NO. 1050PPS (607861)

INDEX OF SHEETS

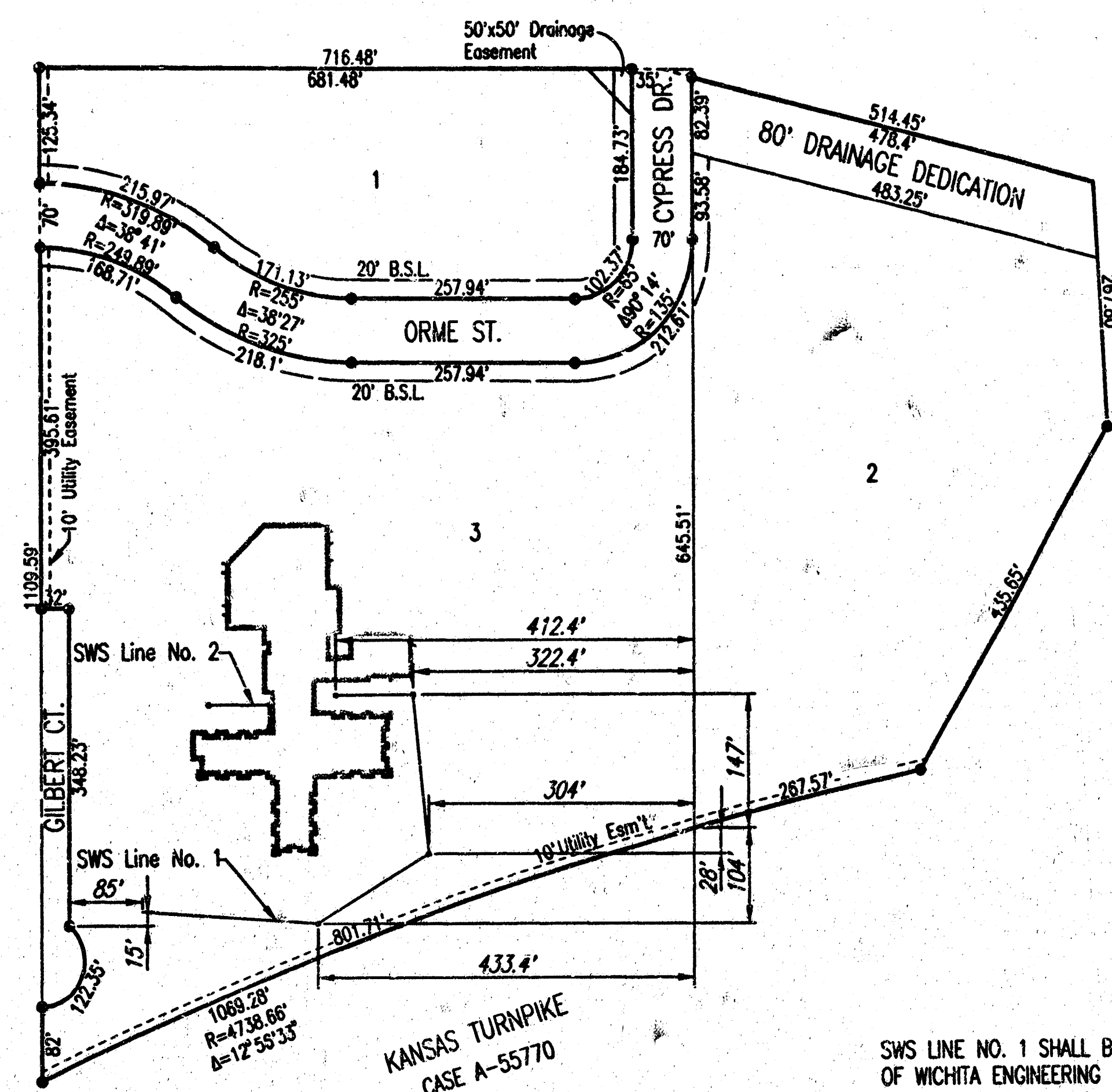
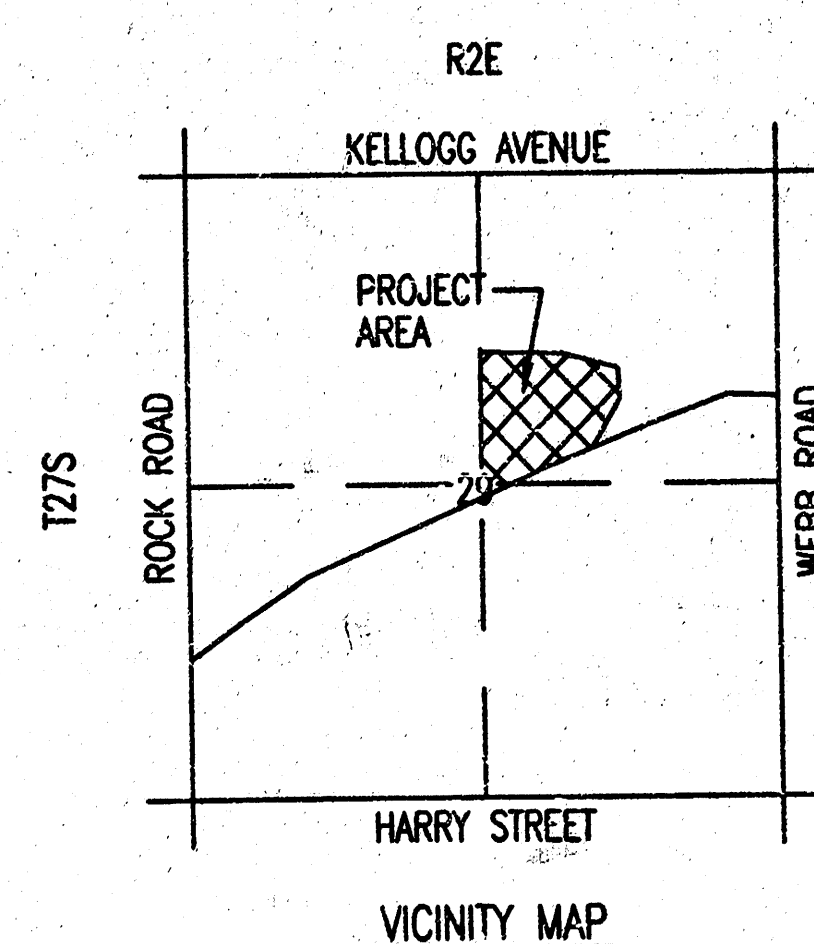
1. TITLE & PLAT
2. SITE GRADING
3. SWS LINE NOS. 1 & 2
4. PAVEMENT & RIPRAP DETAILS
5. AREA INLETS & GRADING DETAILS
6. EROSION CONTROL DETAILS

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

SANITARY SEWERS _____
STORM SEWERS VRH 10/2/00
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 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 SHALL BE PERFORMED BY THE CONSULTING FIRM CONTRACTED TO INSPECT THIS PROJECT.



SCALE: 1" = 150'

SWS LINE NO. 1 SHALL BE REVIEWED BY CITY
OF WICHITA ENGINEERING DEPARTMENT.
SWS LINE NO. 2 SHALL BE REVIEWED BY CITY
OF WICHITA OFFICE OF CENTRAL INSPECTION.



RECORD DRAWING

APR 12, 2001

SEPTEMBER 2000

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

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.

TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.

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.

CONTRACTOR SHALL PROVIDE A MINIMUM FORTY-EIGHT (48) HOUR ADVANCE NOTICE (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO BEGINNING ANY EXCAVATION TO KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316) 687-2470 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ALL EXISTING LINES WITHIN THE PROJECT AREA: K.G.S. GAS, PEOPLES NATURAL GAS, K.G.E. ELECTRIC, SOUTHWESTERN BELL TELEPHONE, COX COMMUNICATIONS, CITY OF WICHITA SEWER MAINTENANCE AND CITY OF WICHITA WATER DEPARTMENT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

THE WATER DEPARTMENT SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, WATER VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED, FERTILIZED, AND MULCHED ACCORDING TO CITY OF WICHITA STANDARDS AND SPECIFICATIONS.
A SPRINKLER SYSTEM IS PRESENT IN THE PROJECT AREA. REMOVE AND REPLACE AS NECESSARY TO FACILITATE CONSTRUCTION.

CONTRACTOR TO COORDINATE THE REMOVAL AND REPLACEMENT OF THE EXISTING FIRE LANE ON THE EAST SIDE OF THE PROJECT AREA WITH OWNER.

16-03-04-17

LOT 2
Owner: Seldin Development & Management Co
Tax ID #: 119-29-0-12-01-002.00

SCALE: 1"=30

TOPOGRAPHIC SURVEY BY GARBER
SURVEYING SERVICE, P.A.
MARCH 10, 2000

RAIN LEADER ELEVATIONS BY ALLIED LABORATORIES

RECORD DRAWING

~~JUN 15 2000~~
APR 12, 2001

EAST TURNPIKE ENTRANCE 2ND ADDITION

SITE GRADING



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

Designed by	KER	Checked by	
Drawn by	KER, SAD	Date	SEPT., 2000
		Job No.	004

OSNR: KER CPER: SAD SCALE: 1=30.00
p:\2000\00178\GRAVING 09-25-2000 11:16:18 am

Rim=1331.90
FL=1325.16(E)
FL=1325.08(W)

LEGEND

FLOW DIRECTION

SPOT ELEVATION

HIGH POINT ELEVATION

RAIN LEADER FLOW LINE ELEVATION

TOP OF INLET ELEVATION

EXISTING CONCRETE ELEVATION

EXPERIMENTAL PROCEDURE

EXISTING GROUND ELEVATION

— PROPOSED CONFIGURATION

— EXISTING CONTOUR

SHEET NO.	TOTAL SHEETS
3	6

LOT 2

Owner: Seldin Development & Management Co.
Tax ID #: 119-29-0-12-01-002.00

Owner: Seldin Development & Management Co.
Tax ID #: 119-29-0-12-01-003.00

SCALE: 1"=30'

TOPOGRAPHIC SURVEY BY GARBER
SURVEYING SERVICE, P.A.
MARCH 10, 2000

RAIN LEADER ELEVATIONS BY ALLIED LABORATORIES

DNCR: KER OFER: S&D SCALE: 1"=30.00
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Rim=1331.90
FL=1325.16(E)
FL=1325.08(W)
MH

(12) 6" Elms

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FL=1328.29(SE)
MH

Rim=1338.75
FL=1332.13(NE)
FL=1332.10(SE)
MH

Rim=1344.55
FL=1338.02(NE)
FL=1335.98(SE)
MH

RECORD DRAWING

JUN 15 2001
APR 12, 2001

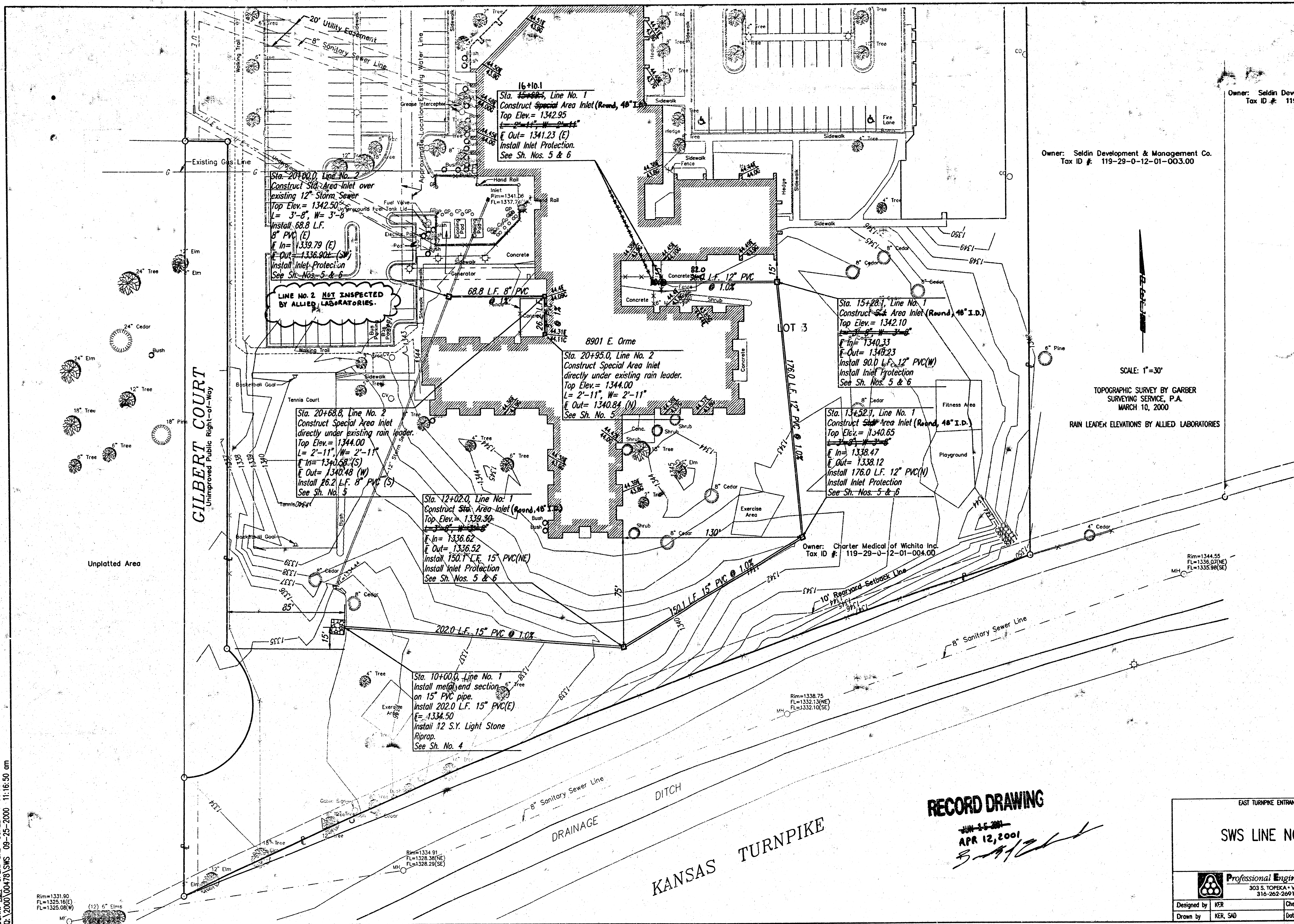
EAST TURNPIKE ENTRANCE 2ND ADDITION

SWS LINE NOS. 1 & 2

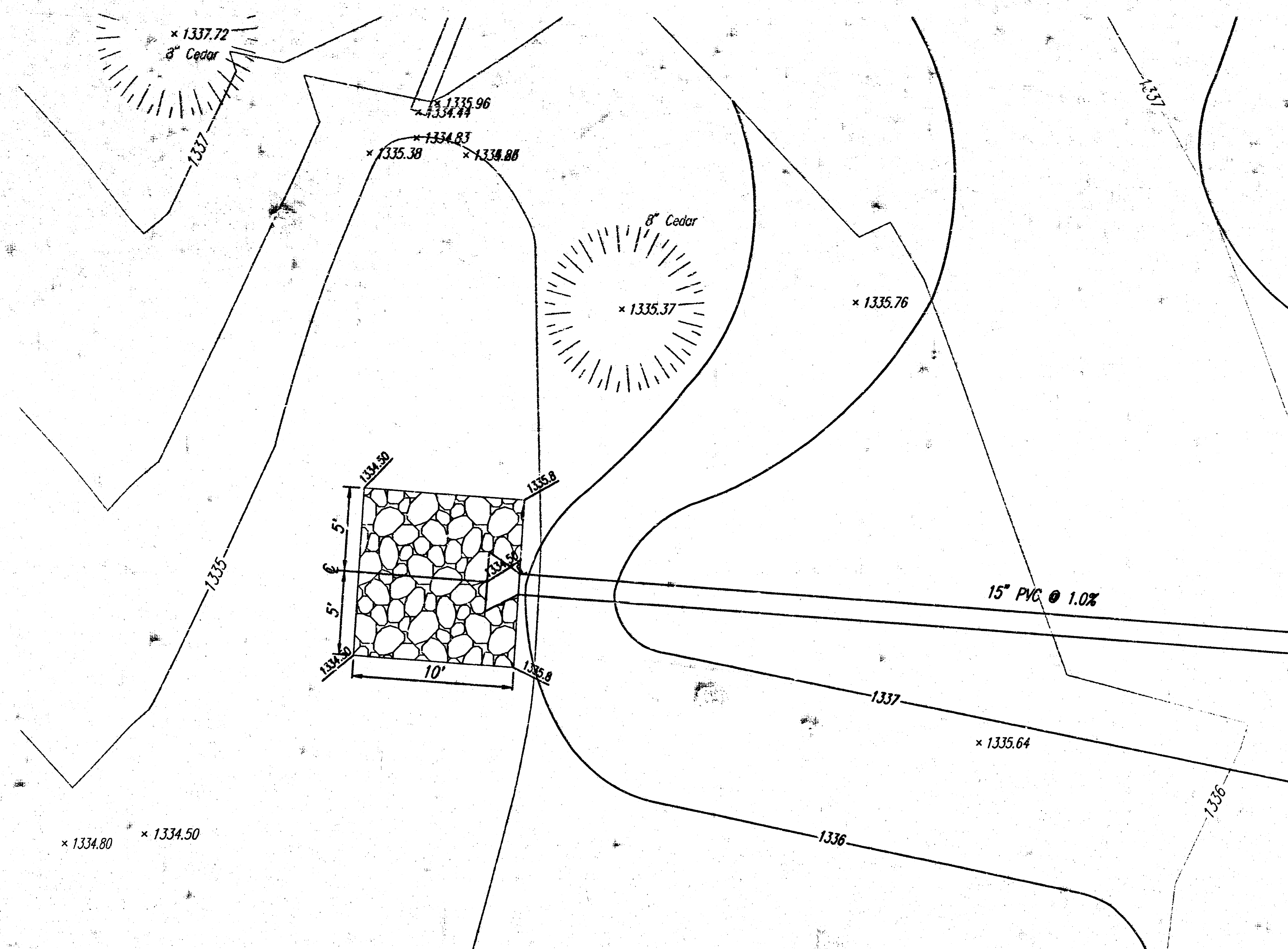


Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

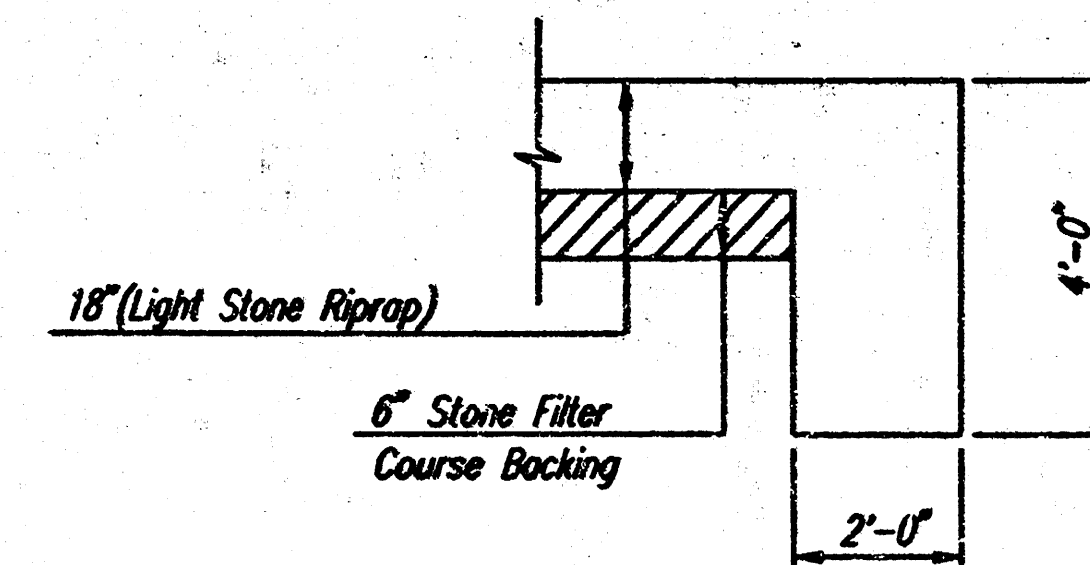
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Drawn by	KER, S&D	Date	SEPT. 2000
		Job No.	00478



SHEET NO.	TOTAL SHEETS
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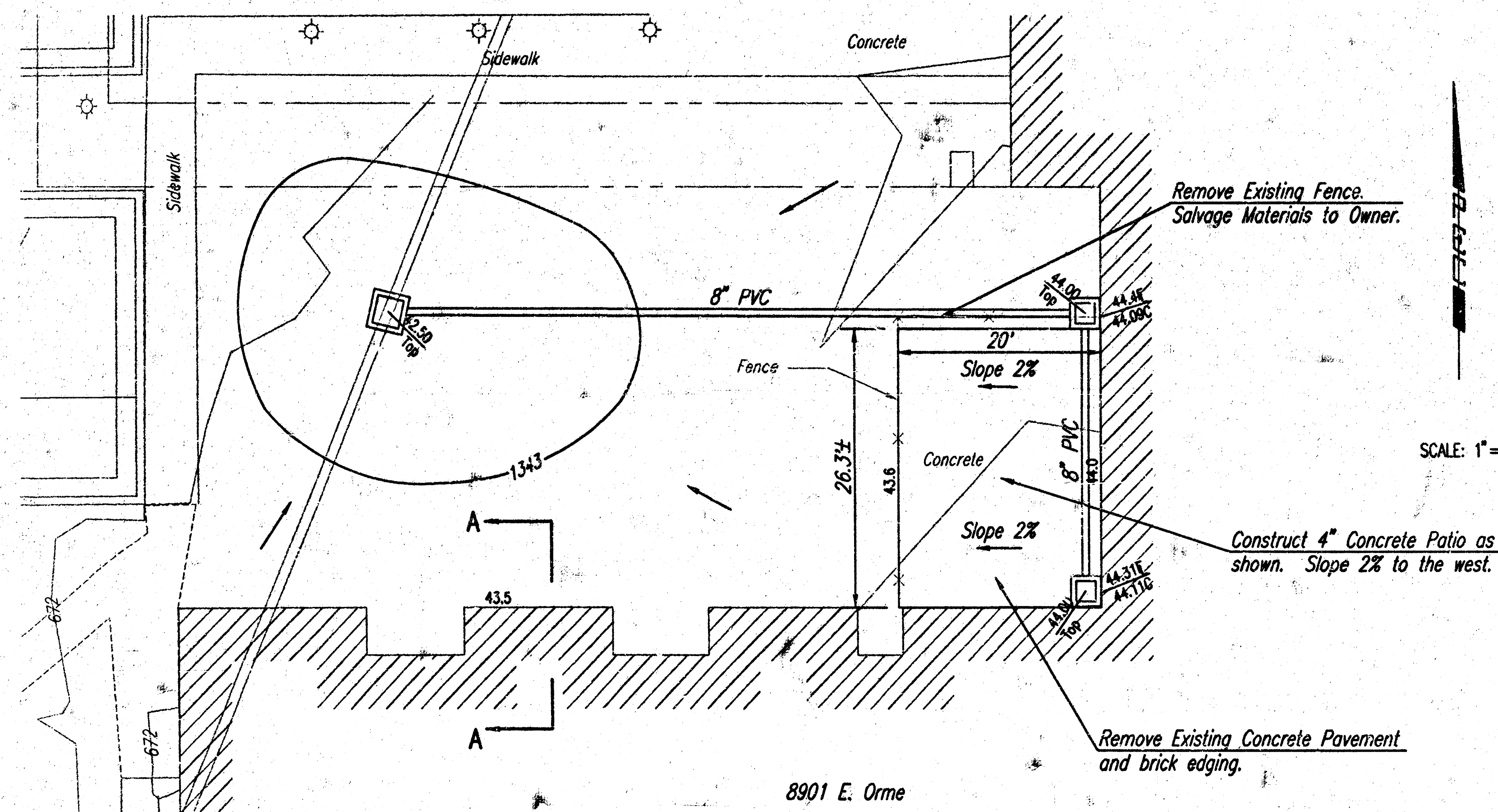


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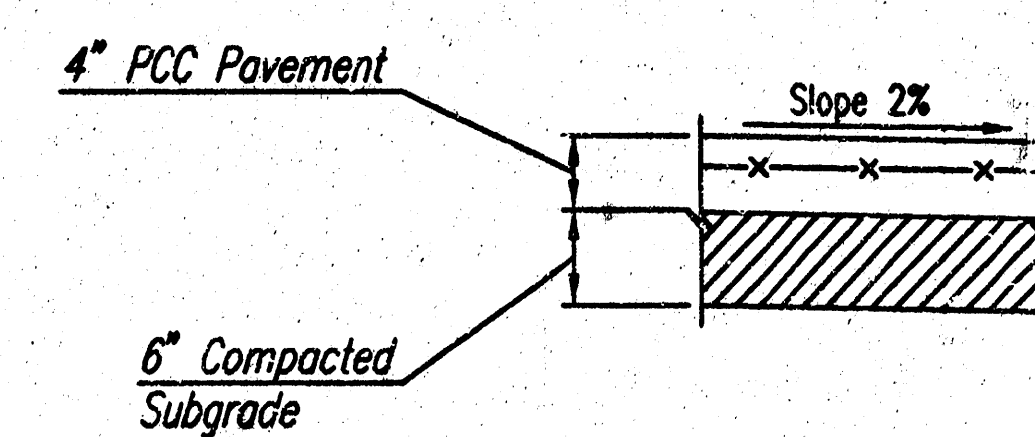


TYPICAL SECTION THRU TOEWALL
NO SCALE

- NOTES
1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED.
 2. TOEWALLS SHALL BE INSTALLED ALONG ALL EDGES OF STONE RIPRAP.
 3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.

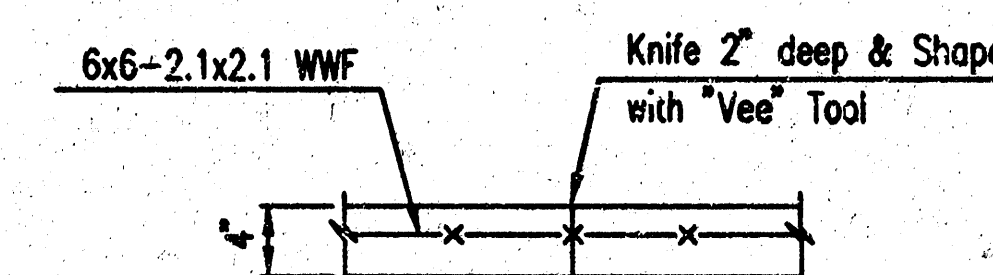


SCALE: 1"=10'



SECTION

SIDEWALK SHALL BE JOINTED TO FORM MAXIMUM 5' SQUARE PANELS.



SIDEWALK DETAILS

CONTRACTION JOINT (Cj)
Note: No sawn contraction joints will be allowed

RECORD DRAWING

JUN 15 2001
APR 12, 2001
Brinkley

EAST TURNPIKE ENTRANCE 2ND ADDITION

PAVEMENT & RIPRAP DETAILS

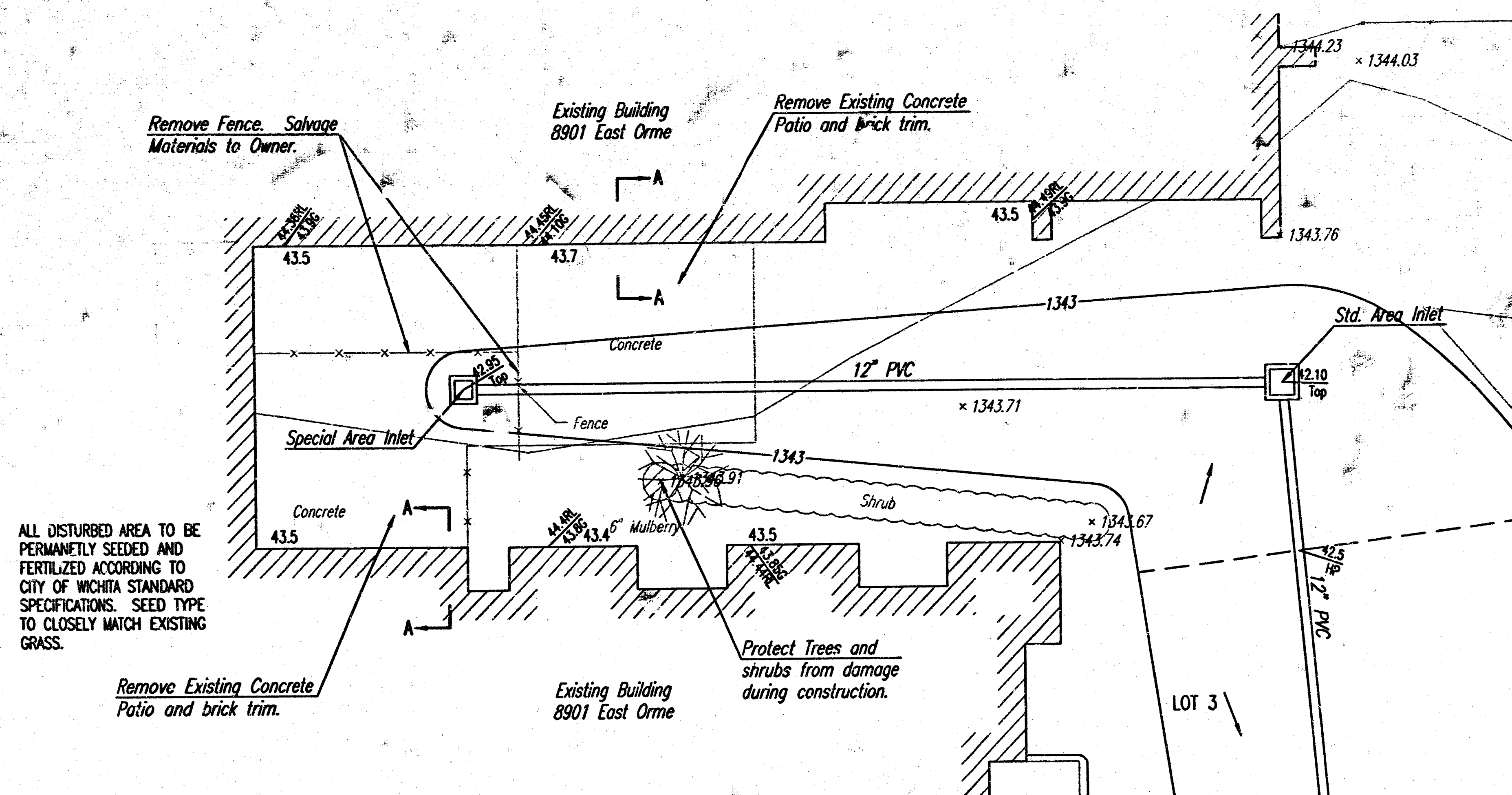
Professional Engineering Consultants, P.A.
303 S. TOWNE AVE. • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3053

Designed by	KER	Checked by	
Drawn by	KER, SAO	Date	SEPT 2000
		Job No.	00478

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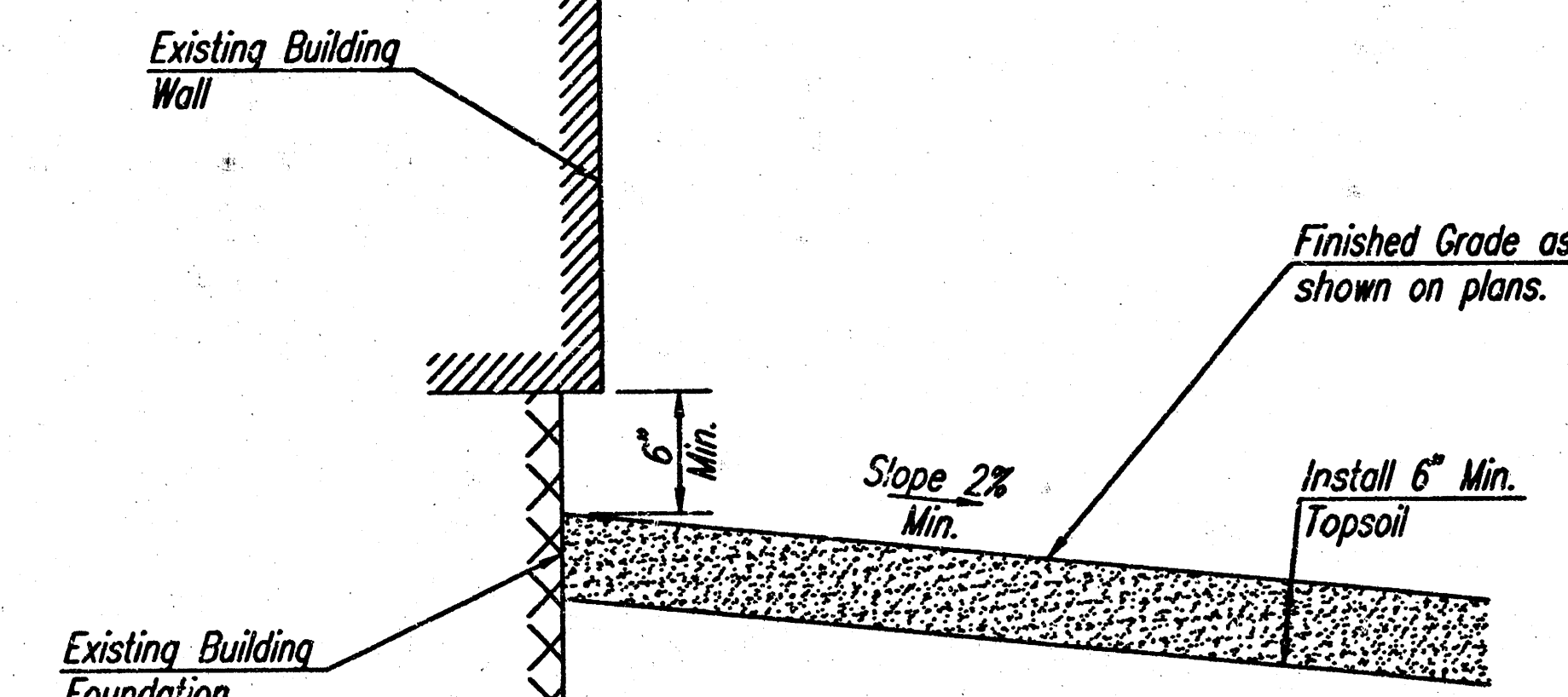
SEE SH. NO. 5 FOR SECTION A-A

SHEET NO.	TOTAL SHEETS
5	6

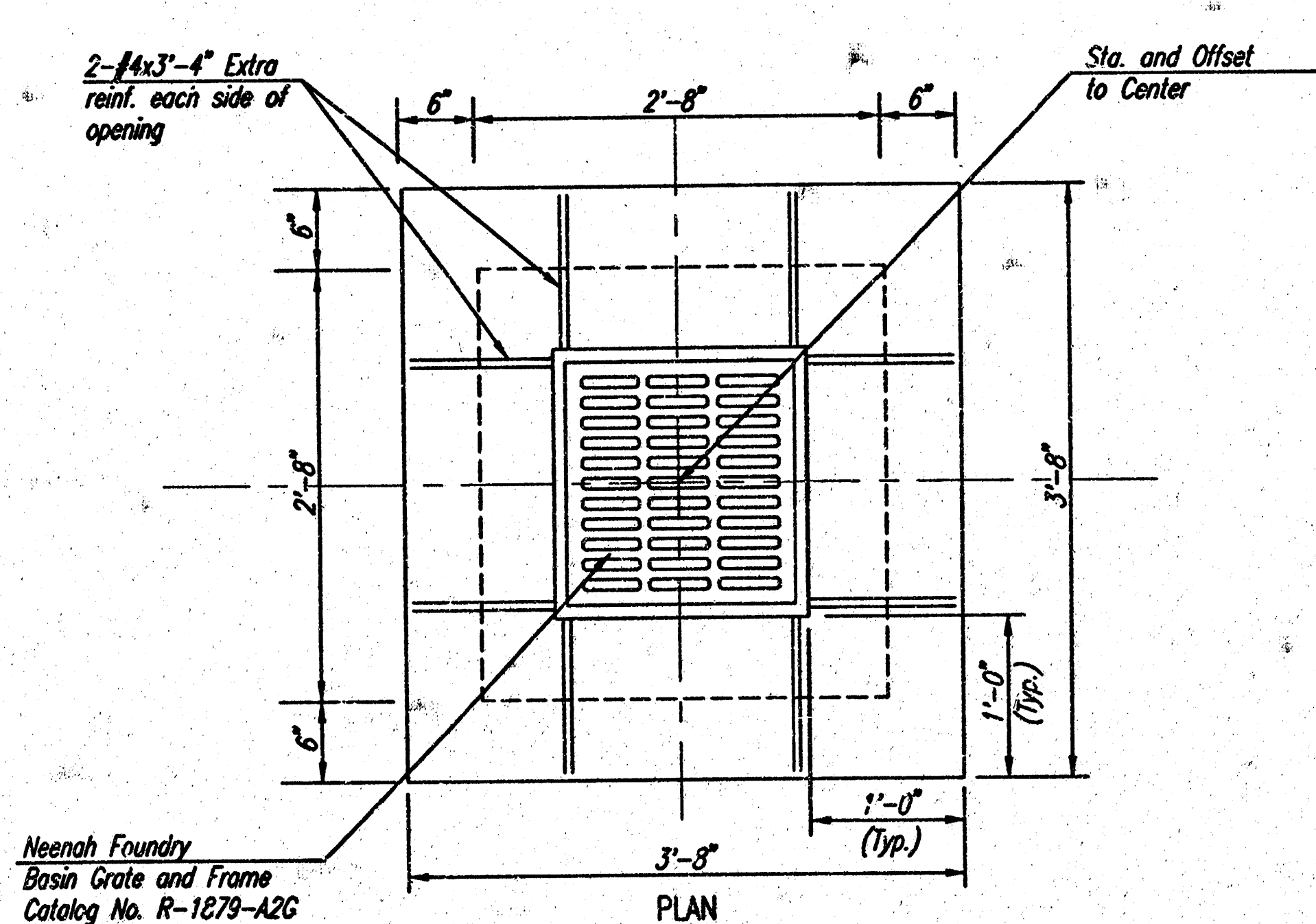


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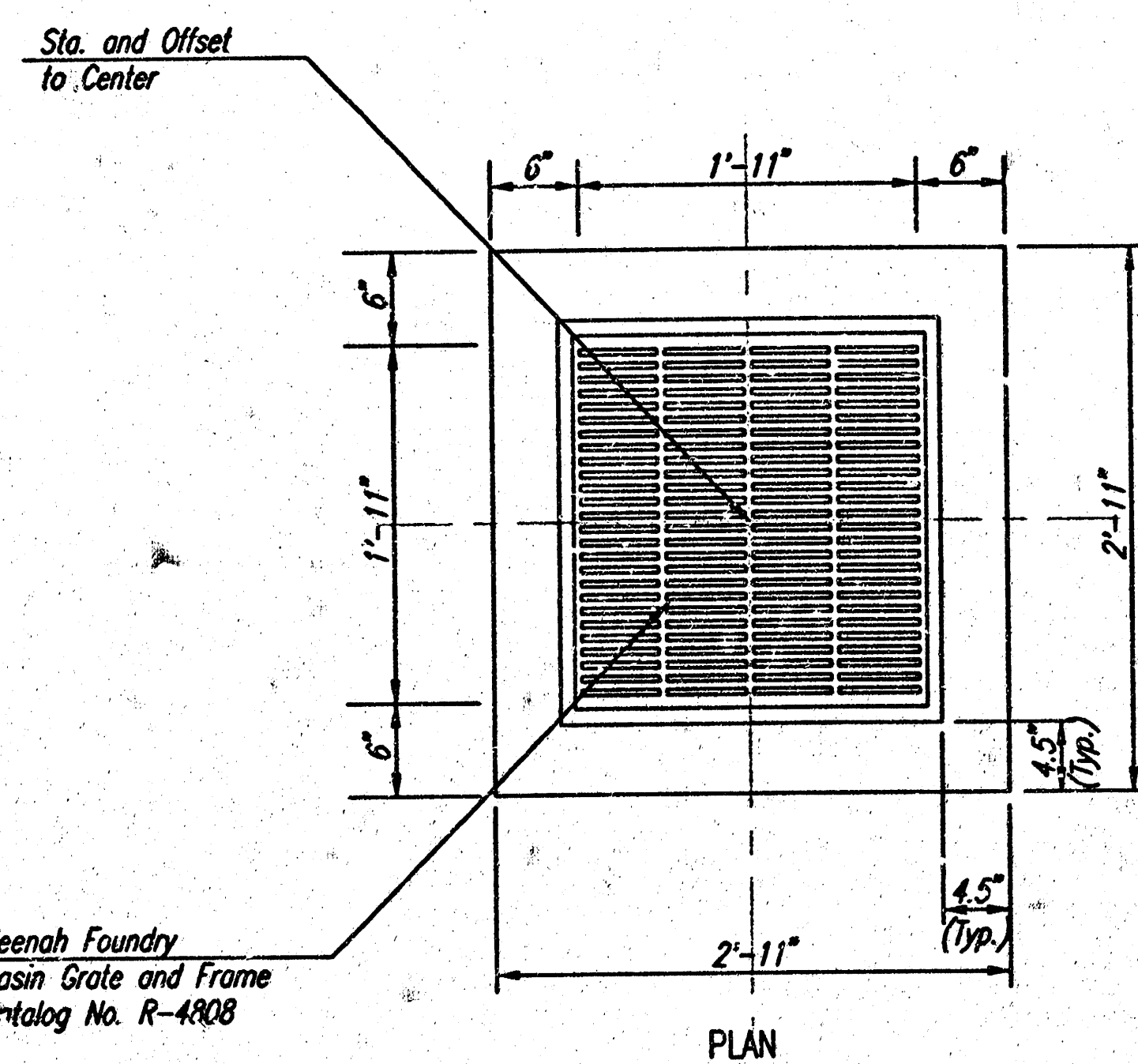
NOTE:
Contractor shall excavate existing ground to a minimum of 6" below the stucco finish. Contractor shall be required to overexcavate a minimum of 6" and provide 6" of topsoil in all turf area



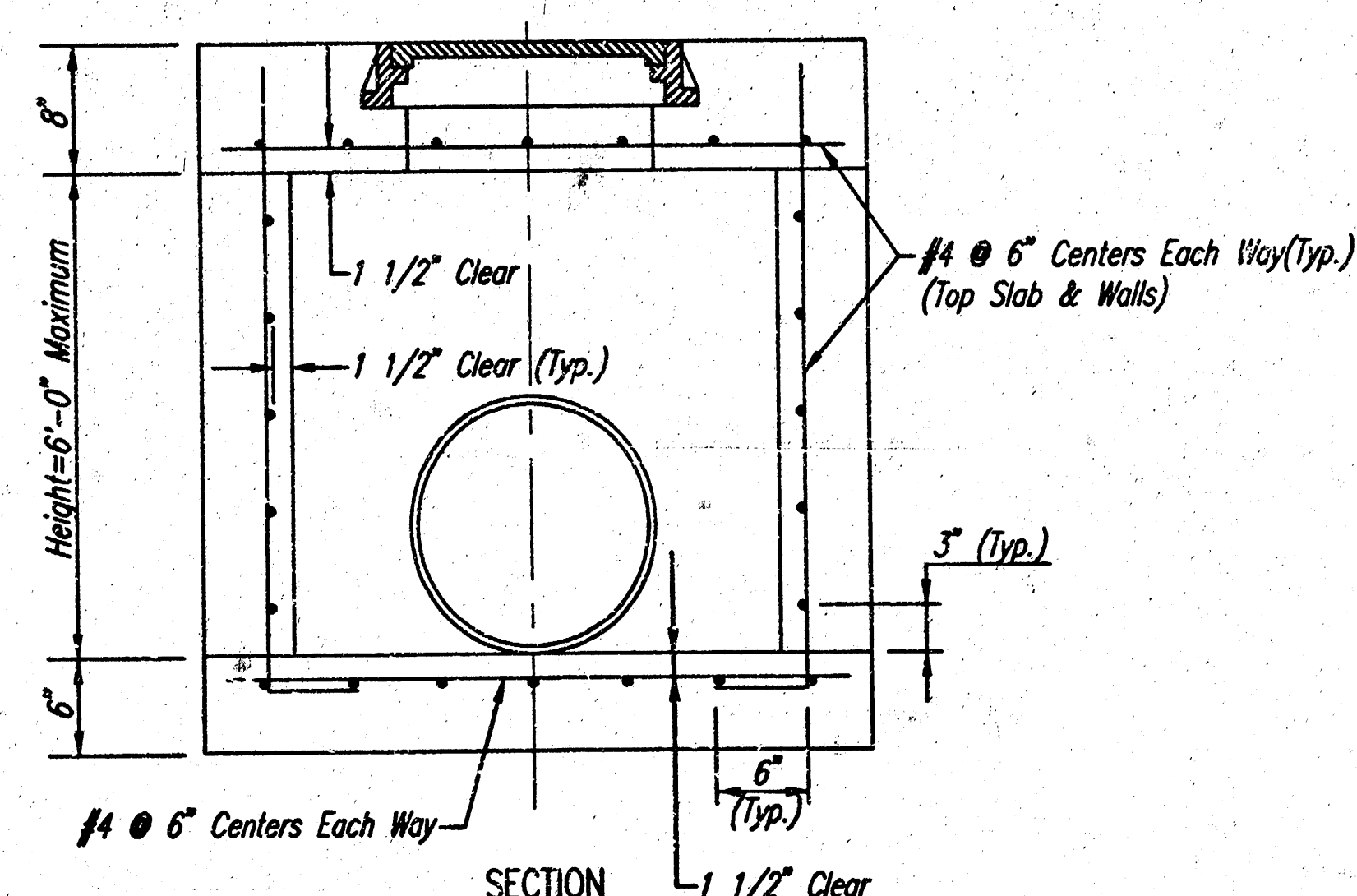
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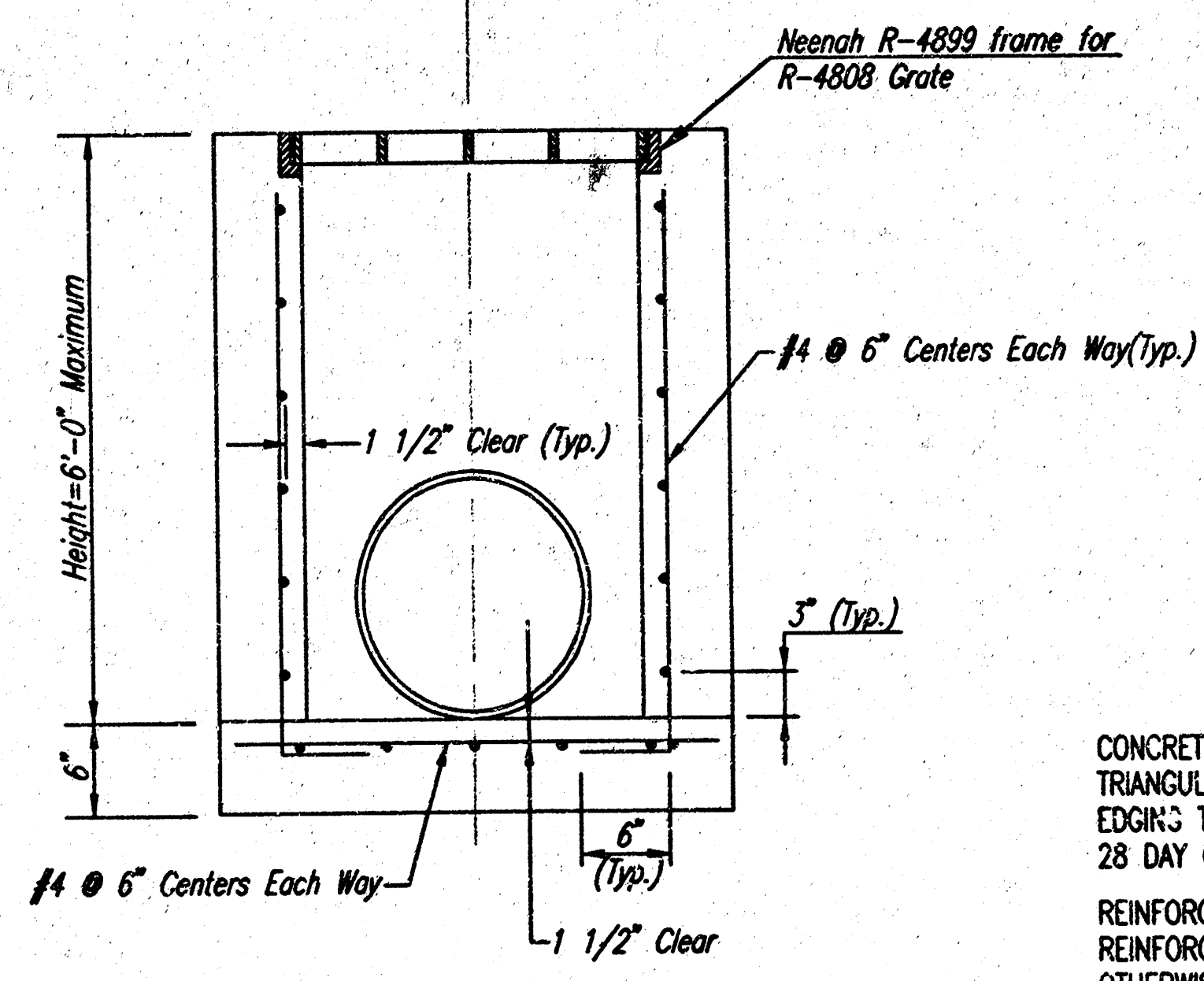
Neenah Foundry
Basin Grate and Frame
Catalog No. R-1279-A2C



Neenah Foundry
Basin Grate and Frame
Catalog No. R-4808



AREA INLET DETAIL



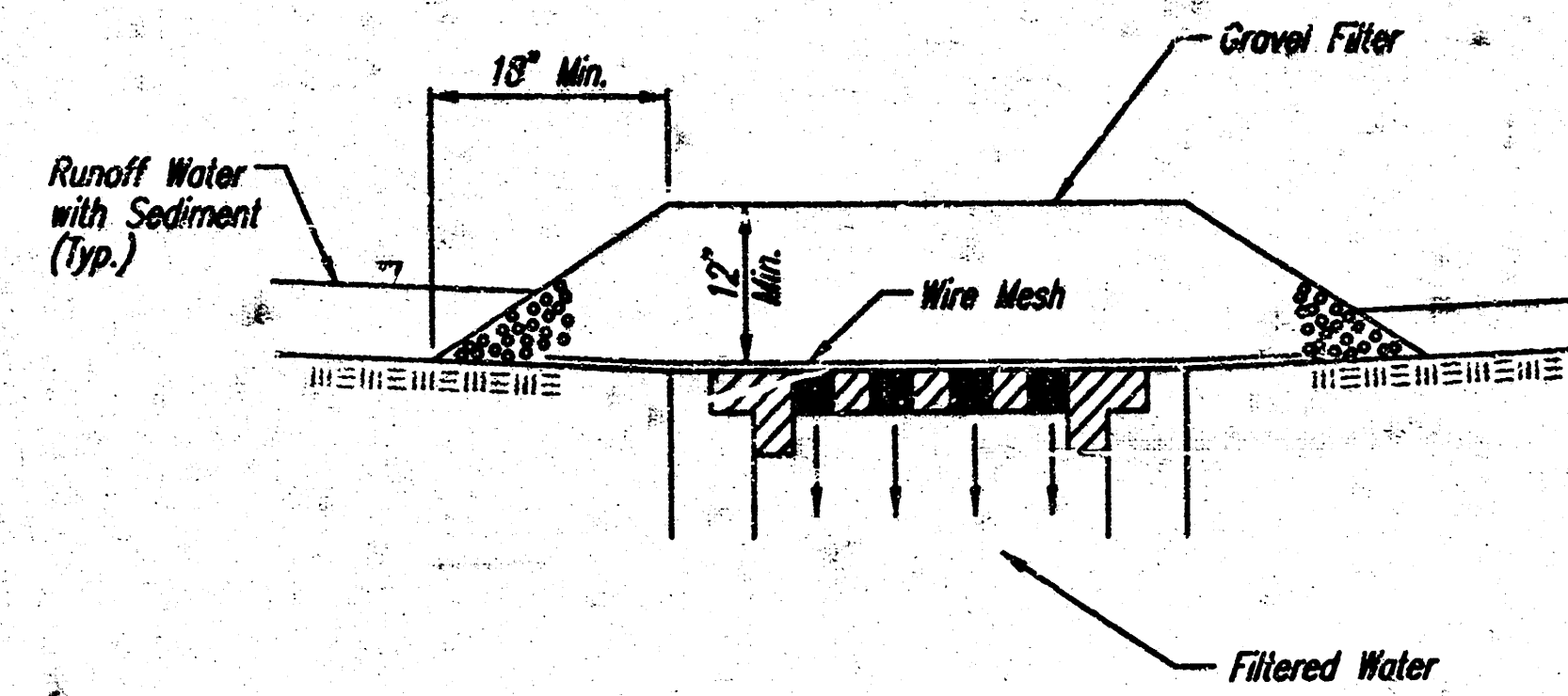
SPECIAL AREA INLET DETAIL

AREA INLET GENERAL NOTES
CONCRETE: BEVEL ALL EXPOSED EDGES WITH A 3/4" TRIANGULAR MOLDING OR FINISH WITH AN APPROVED EDGING TOOL. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
REINFORCING STEEL: ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS OTHERWISE NOTED. ALL REINFORCING STEEL SHALL CONFORM TO A.S.T.M. DESIGNATION A615 GRADE 60.

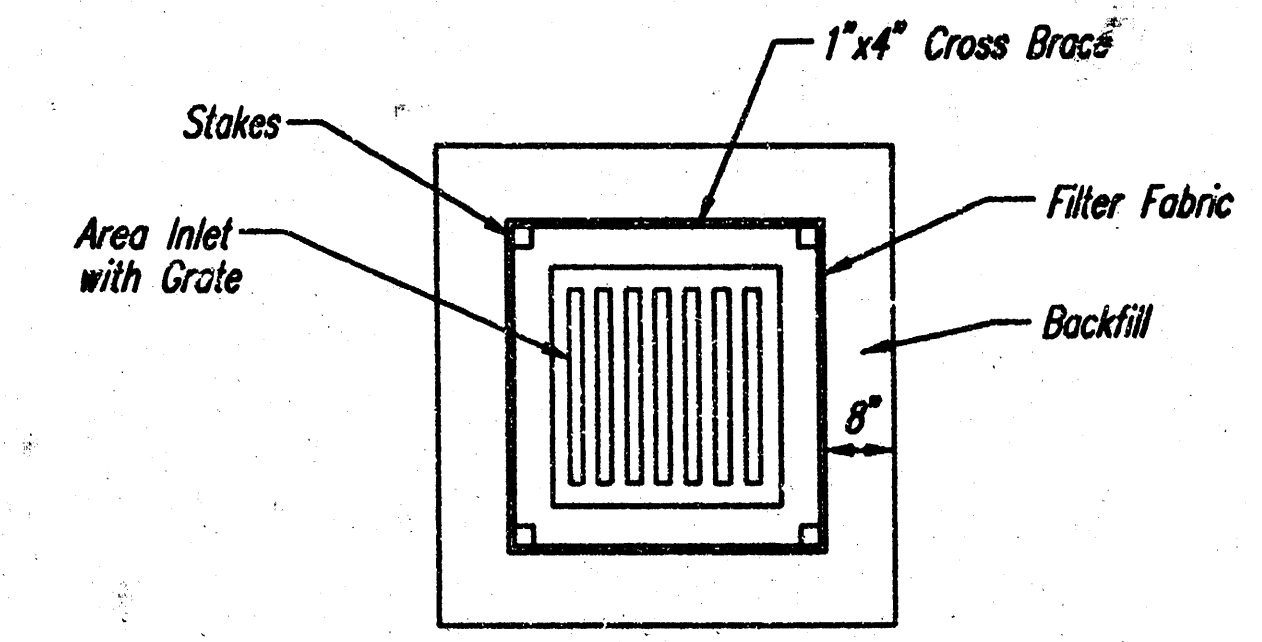
RECORD DRAWING
APR 12, 2001
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EAST TURNPIKE ENTRANCE 2ND ADDITION	
AREA INLETS & GRADING DETAILS	
Professional Engineering Consultants, P.A. 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003	
Designed by: KER	Checked by:
Drawn by: KER, S4D	Date: SEPTEMBER, 2000 Job No. 00478

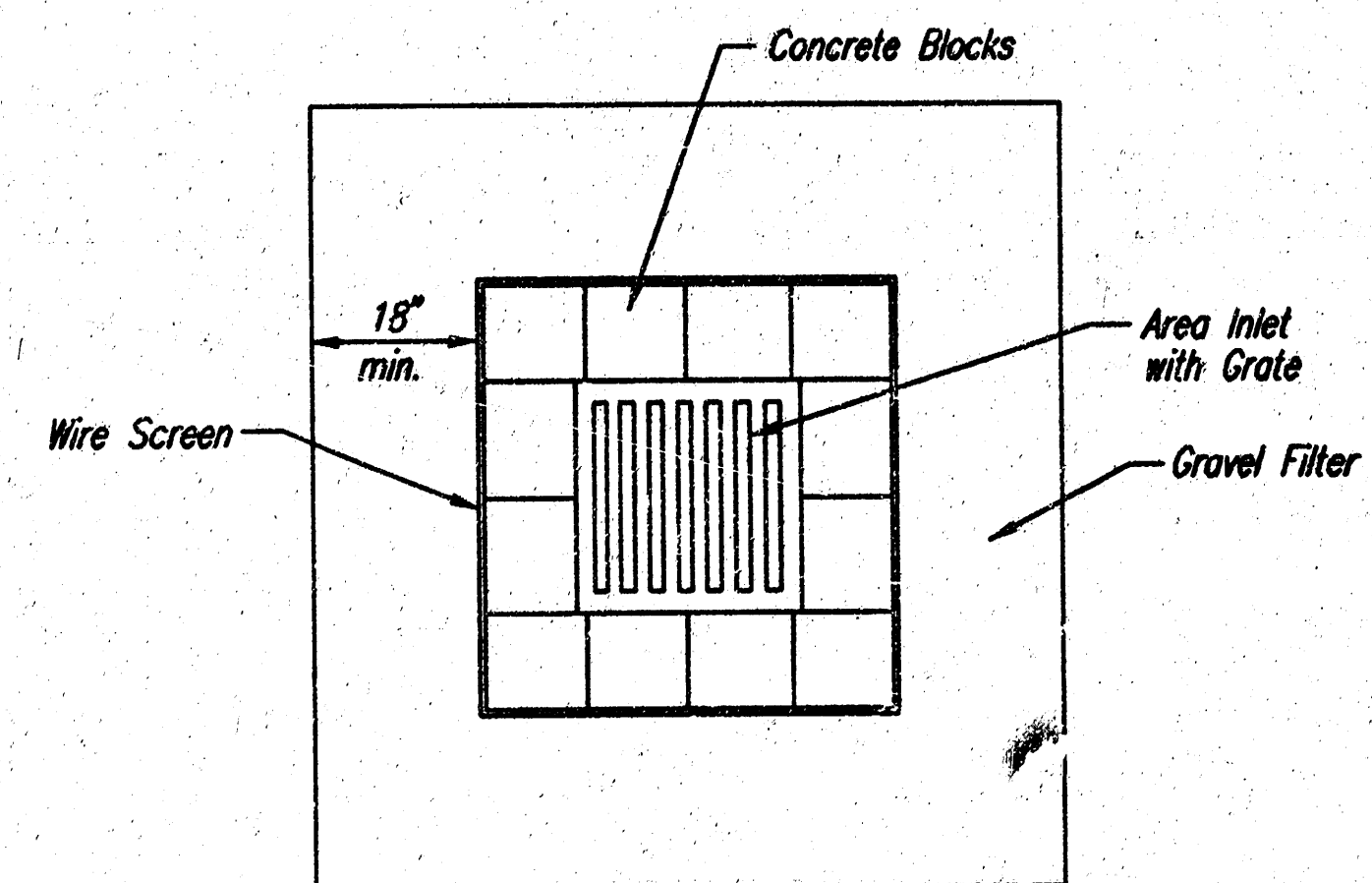
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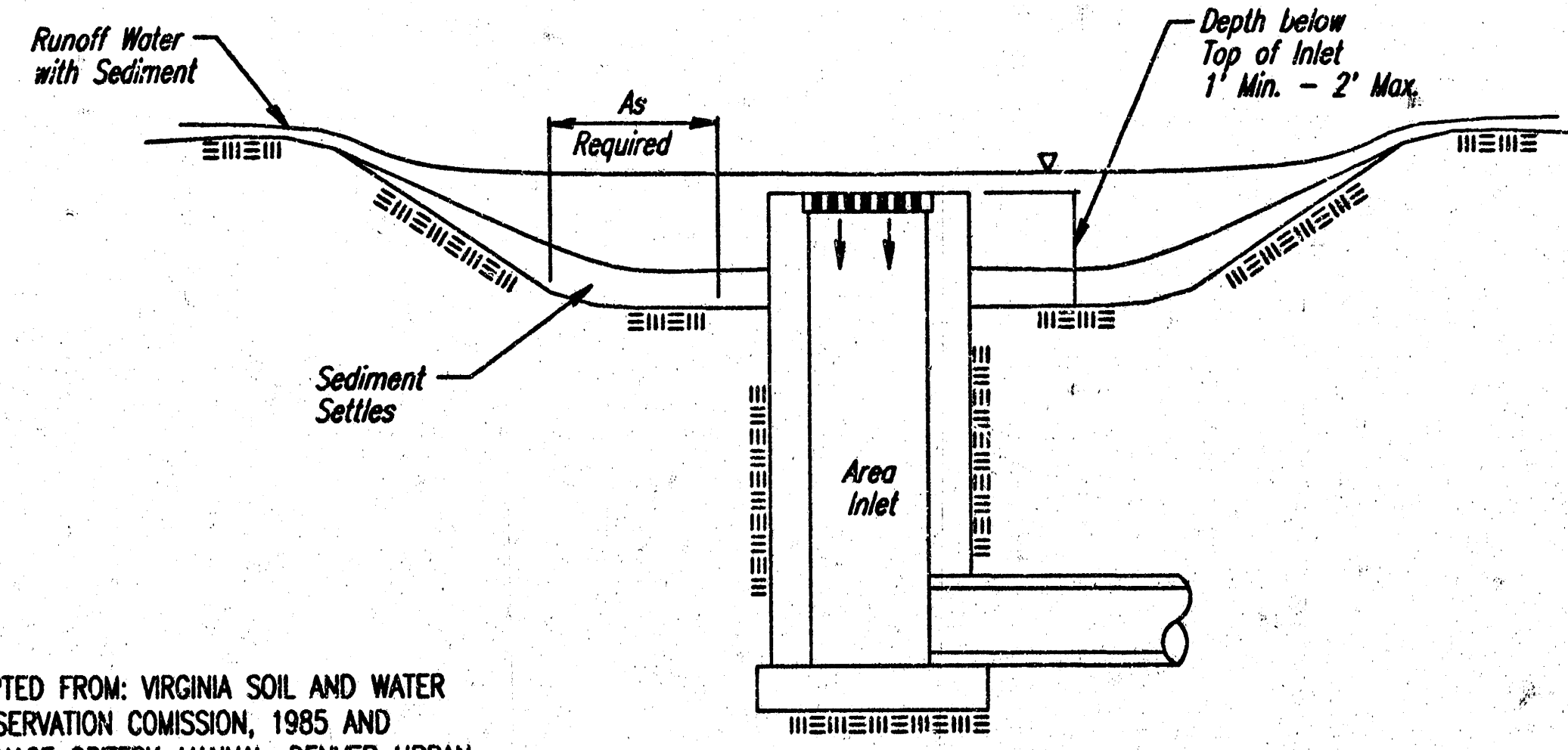
**AREA INLET PROTECTION
GRAVEL AND WIRE MESH**



**AREA INLET PROTECTION
FILTER FABRIC**



**AREA INLET PROTECTION
BLOCK AND GRAVEL FILTER**



**AREA INLET PROTECTION
EXCAVATED AREA INLET
SEDIMENT TRAP**

ADAPTED FROM: VIRGINIA SOIL AND WATER CONSERVATION COMMISSION, 1985 AND DRAINAGE CRITERIA MANUAL, DENVER URBAN DRAINAGE AND FLOOD CONTROL DISTRICT 9-1-92

NOTE: INLET SIZE MAY VARY FROM THAT SHOWN.

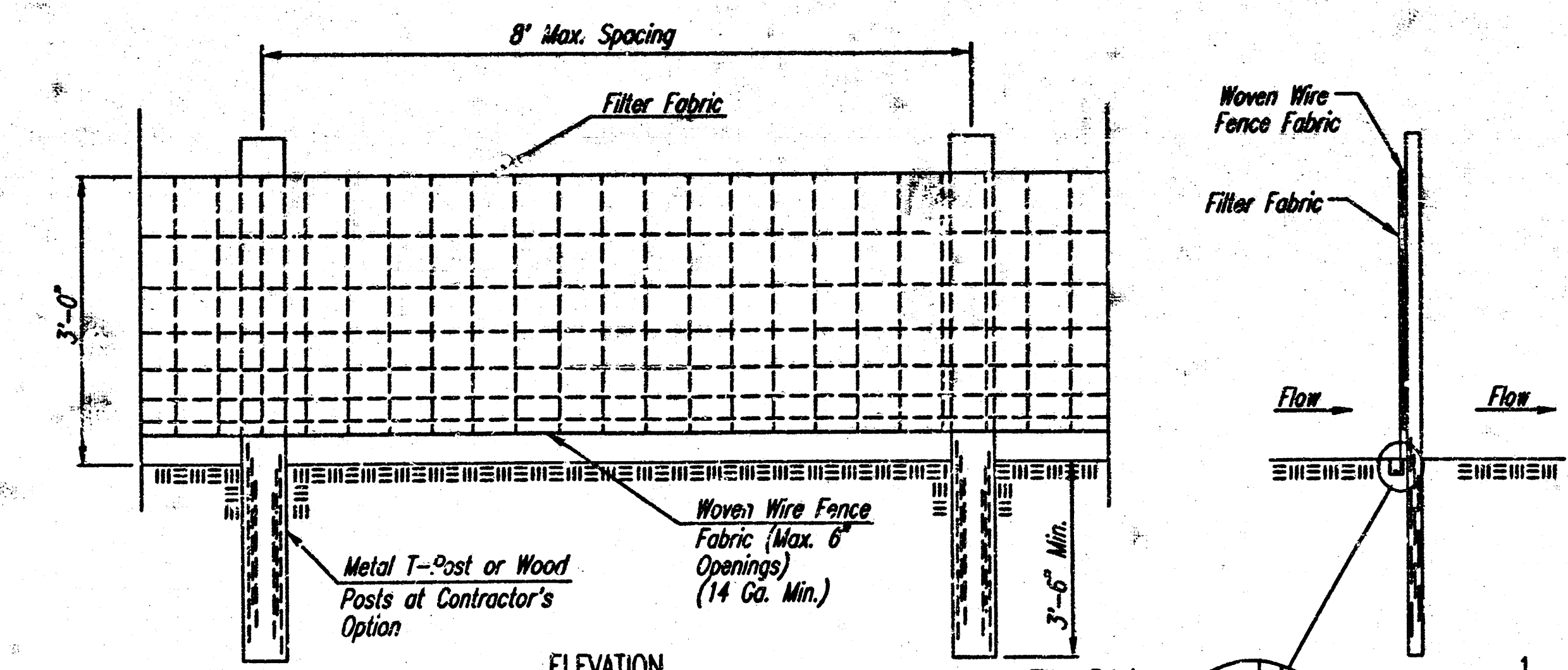
**GENERAL NOTES
INLET PROTECTION**

1. INLET PROTECTION METHOD MAY BE ANY OF THE APPLICABLE TYPES SHOWN, AT THE CONTRACTOR'S OPTION.
2. GRAVEL FILTER SHALL BE A DURABLE, WELL-GRADED SAND-GRAVEL OR CRUSHED STONE, MAXIMUM 1-1/2 IN. SIZE. AS AN ALTERNATE GRAVEL FILLED BAGS OF BURLAP OR OTHER FABRIC MAY BE USED. WHERE BAGS ARE USED, THE WIRE SCREEN, WHERE SHOWN, MAY BE OMITTED.
3. FILTER FABRIC, WHERE USED, SHALL BE RESISTANT TO ULTRAVIOLET LIGHT. MATERIALS MAY BE SUPPLIED BY THE FOLLOWING MANUFACTURERS:

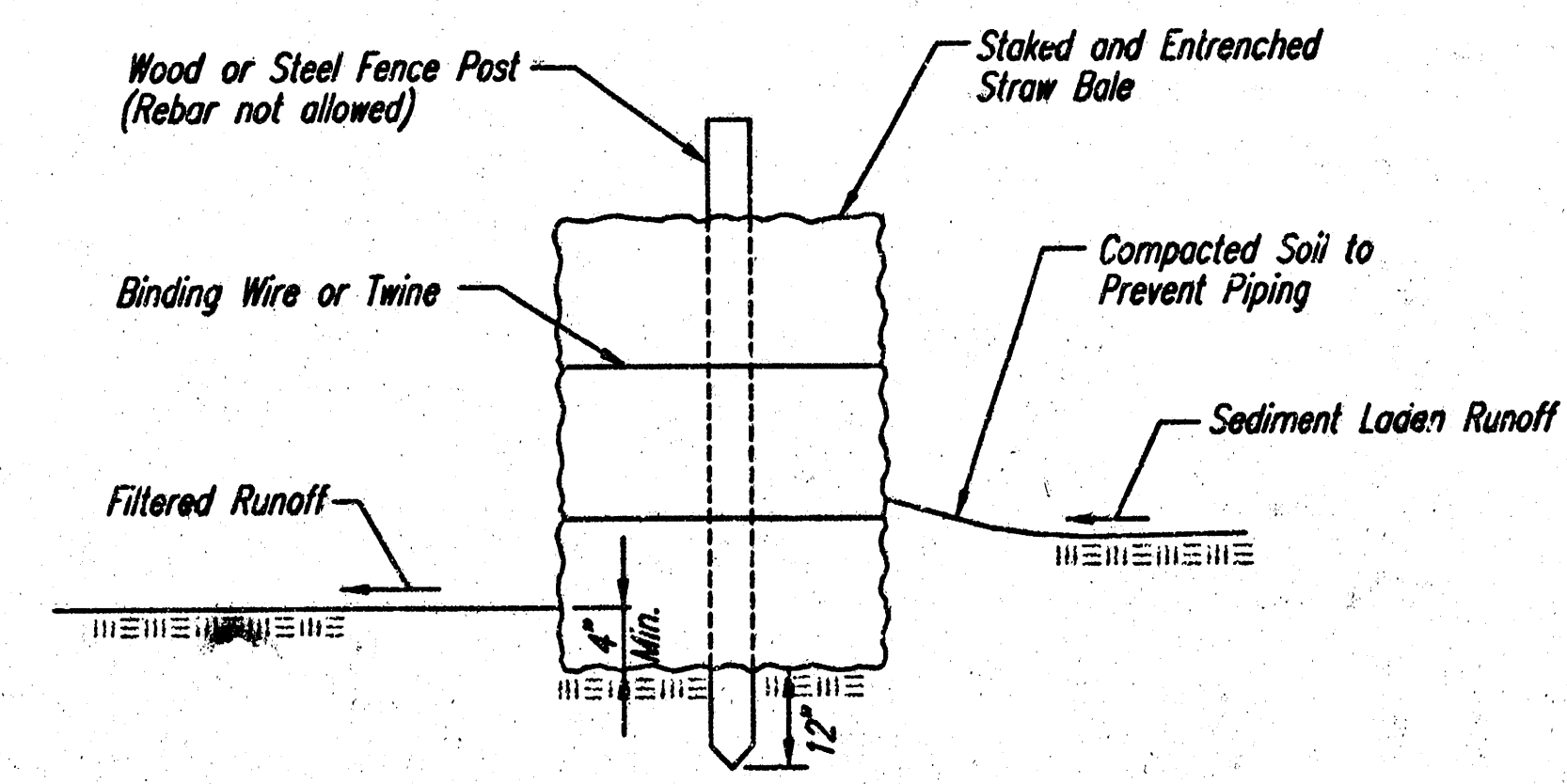
MIRAFI, INC.	-	100X
HOECHST FIBERS INDUSTRIES	-	TREXRA 1115
EXXON	-	TYPAR 3301 W

MATERIALS SUPPLIED BY THE ABOVE NAMED MANUFACTURERS SHALL BE ACCEPTED UPON VISUAL INSPECTION BY THE ENGINEER. OTHER COMPARABLE MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER.

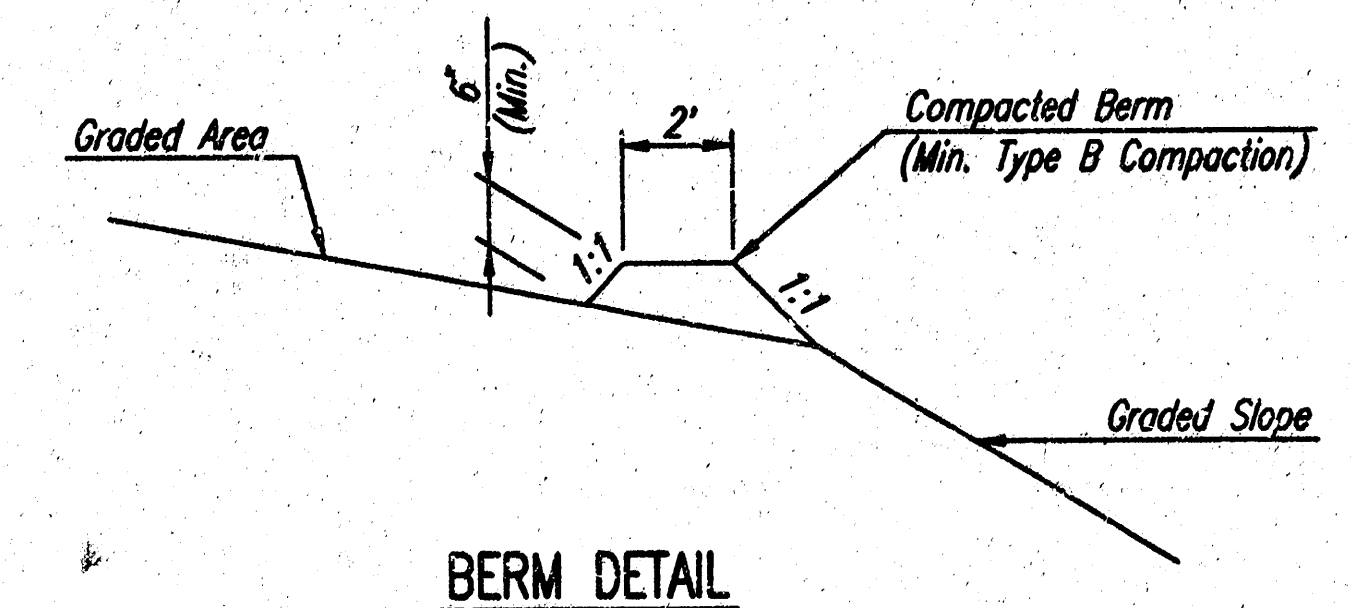
4. INLET PROTECTION SHALL BE ERECTED AS SOON AS THE STRUCTURE HAS BEEN BACKFILLED. MEASURES SHALL BE TAKEN TO PRECLUDE ENTRY OF SEDIMENT INTO THE STORM WATER SEWER SYSTEM DURING CONSTRUCTION OF THE STRUCTURE.
5. REMOVAL AND DISPOSAL OF ACCUMULATED SILT AND DEBRIS AND/OR REMOVAL AND RECONSTRUCTION OF INLET PROTECTION INSTALLATIONS SHALL BE PERFORMED THROUGHOUT THE PROJECT LIFE WHENEVER DEBRIS REACHES ONE-THIRD THE BARRIER HEIGHT, OR AS DEEMED NECESSARY BY THE ENGINEER. ULTIMATE REMOVAL AND DISPOSAL OF INLET PROTECTION AND DEBRIS WILL BE PERFORMED BY THE OWNER.



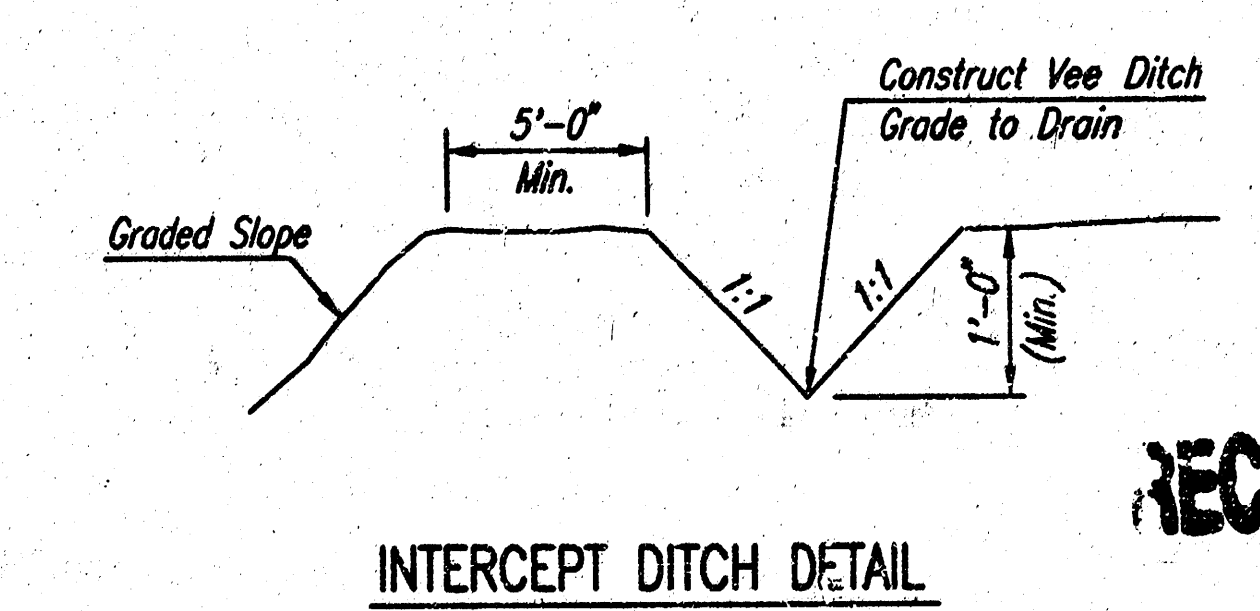
**SEDIMENT BARRIER DETAILS
FENCE OPTION**



LINEAR SEDIMENT BARRIER



BERM DETAIL



INTERCEPT DITCH DETAIL

TEMPORARY EROSION CONTROL DETAILS FOR SLOPE PROTECTION

The Engineer may determine that the height of Berm or depth of Ditch should be increased over that shown if drainage conditions are producing slope erosion.

**GENERAL NOTES
LINEAR SEDIMENT BARRIER**

1. SEDIMENT BARRIERS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ADDITIONAL SEDIMENT BARRIERS WILL BE INSTALLED AT LOCATIONS AS DIRECTED BY THE ENGINEER WITH NO ADJUSTMENT IN UNIT PRICE.
2. SEDIMENT BARRIERS SHALL BE ERECTED PRIOR TO THE COMMENCEMENT OF EARTHWORK OPERATIONS IN A GIVEN BASIN. REMOVAL AND DISPOSAL OF ACCUMULATED SILT AND DEBRIS AND/OR REMOVAL AND RECONSTRUCTION OF SEDIMENT BARRIERS WILL BE PERFORMED THROUGHOUT THE PROJECT LIFE WHEN DEBRIS REACHES ONE-THIRD THE FENCE HEIGHT OR AS DEEMED NECESSARY BY THE ENGINEER. SEDIMENT BARRIERS AND ACCUMULATED DEBRIS SHALL BE REMOVED AND DISPOSED OF BY THE OWNER AFTER TURF COVER HAS BEEN ESTABLISHED, UNLESS OTHER ARRANGEMENTS HAVE BEEN AGREED TO.
3. FILTER FABRIC FOR FENCE OPTION SEDIMENT BARRIERS SHALL BE RESISTANT TO ULTRAVIOLET LIGHT. MATERIALS MAY BE SUPPLIED BY THE FOLLOWING MANUFACTURERS:

MIRAFI, INC.	-	100X
HOECHST FIBERS INDUSTRIES	-	TREXRA 1115
EXXON	-	TYPAR 3301 W

MATERIALS SUPPLIED BY THE ABOVE NAMED MANUFACTURERS SHALL BE ACCEPTED UPON VISUAL INSPECTION BY THE ENGINEER. OTHER COMPARABLE MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER.

FILTER FABRIC SHALL BE ATTACHED TO FENCE FABRIC BY MEANS OF THE WIRES OR HOG RINGS PRIOR TO ATTACHMENT OF FENCE/FABRIC COMBINATION ONTO THE POSTS.

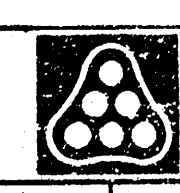
4. BALES USED FOR SEDIMENT BARRIERS MAY BE EITHER HAY OR STRAW, PROVIDED THEY ARE SOUND AND INTACT.
5. TEMPORARY EROSION CONTROL BERMS AND/OR INTERCEPT DITCHES SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

WHERE TEMPORARY EROSION CONTROL BERMS AND/OR INTERCEPT DITCHES ARE USED, ALL AREAS WHERE FLOW IS CONCENTRATED SHALL BE PROTECTED BY SILTATION BARRIERS PRIOR TO DISCHARGING INTO ANY DITCH, STORM SEWER, OR WATERCOURSE.

RECORD DRAWING

APR 12, 2001

303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003



Professional Engineering Consultants, P.A.

Designed by	BER	Checked by	
Drawn by	DEP	Date	SEPT 2000
		Job No.	00473

10 03 01

DSNR: KBR OPER. S&D SCALE: 1"=1.00' 03/2000 00473/ERSDTL 06-25-2000 11:17:53 am