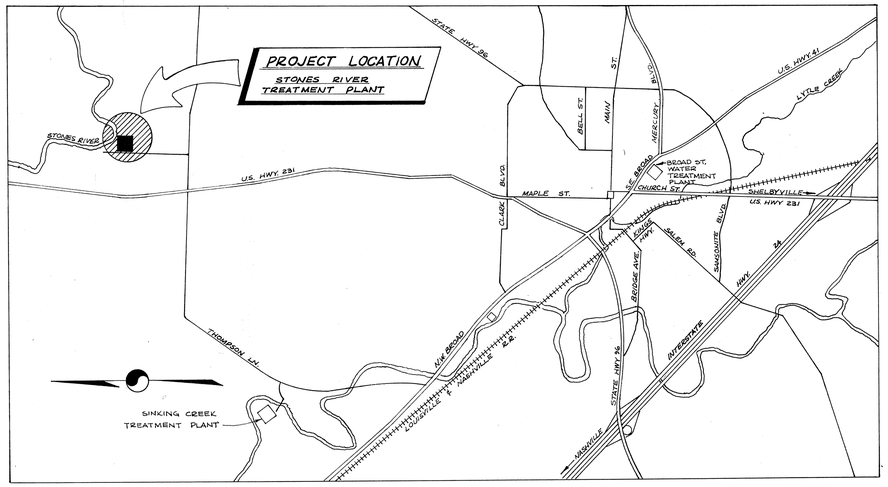
CITY OF MURFREESBORO
MURFREESBORO, TENNESSEE

WATER SYSTEM ADDITIONS

CONTRACT NO. 1
APRIL 1979

STONES RIVER TREATMENT PLANT ADDITIONS



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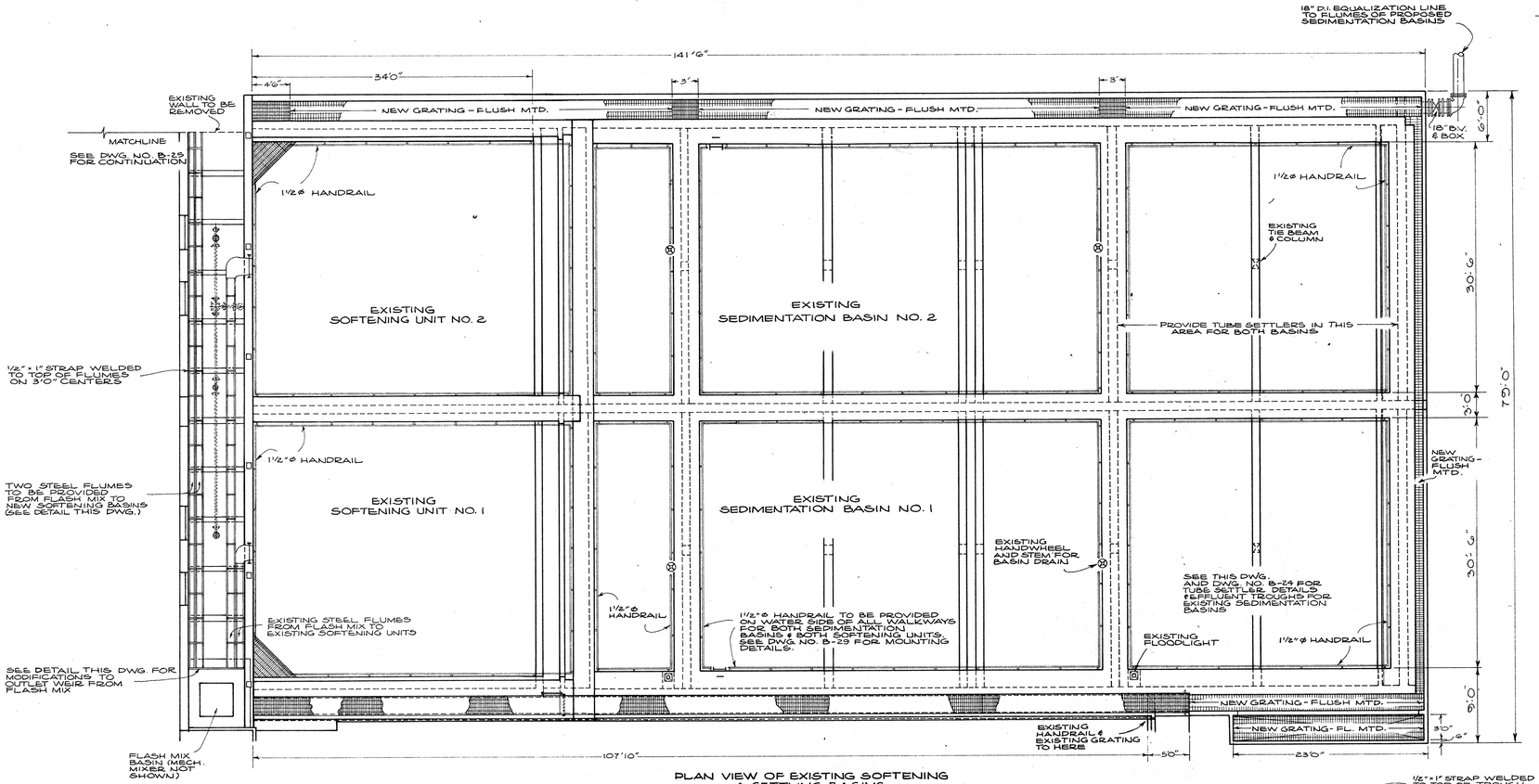
Lewis & Kuhlman Engineers, Inc.

Nashville, Tennessee

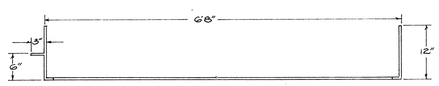
SET NO. 1

Willis H. Lewis
4-17-79

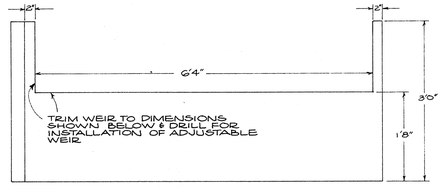


PLAN VIEW OF EXISTING SOFTENING & SETTLING BASINS

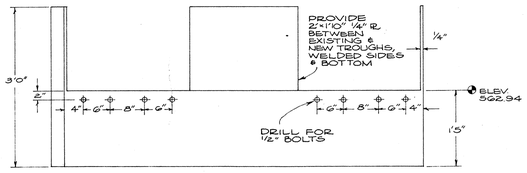
SCALE: 1/8" = 1'0"



PLAN OF EXISTING PLATE

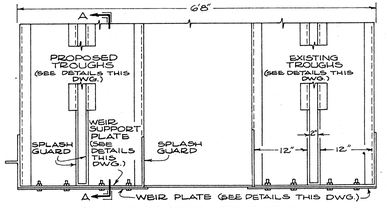


EXISTING ELEVATION

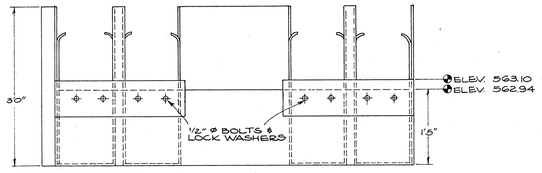


ELEVATION AS MODIFIED

WEIR SUPPORT PLATE DETAILS



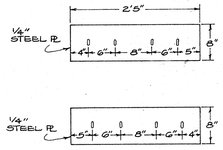
PLAN OF PROPOSED OUTLET FROM FLASH MIX



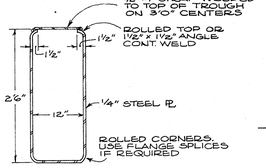
ELEVATION OF PROPOSED OUTLET FROM FLASH MIX

FLASH MIX OUTLET WEIR DETAILS

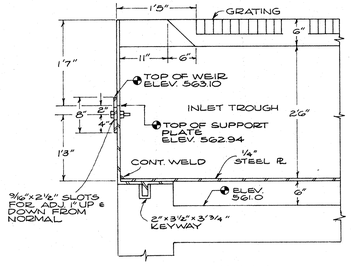
SCALE: 3/4" = 1'0"



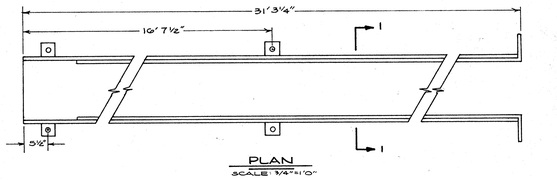
ADJUSTABLE WEIR PLATES



INLET TROUGH DETAIL

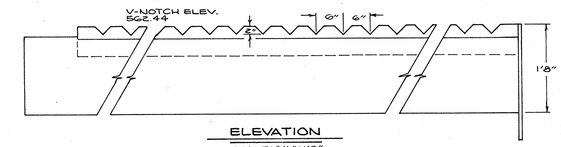


SECTION A-A



PLAN

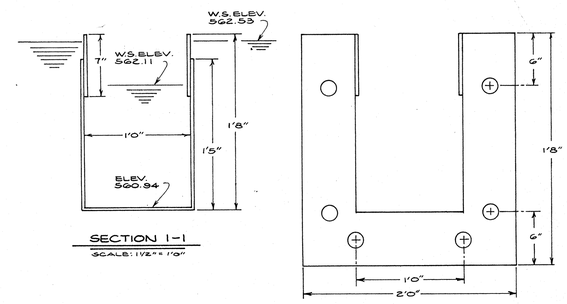
SCALE: 3/4" = 1'0"



ELEVATION

SCALE: 3/4" = 1'0"

NOTE: WEIR PLATE IS TO HAVE 2½" SLOTS FOR CONNECTION TO EFFLUENT TROUGHS FOR 1" ADJUSTMENT UP & DOWN



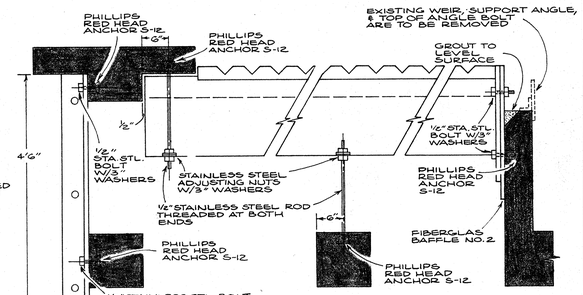
SECTION 1-1

SCALE: 1½" = 1'0"

END VIEW

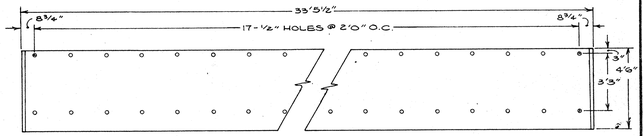
SCALE: 1½" = 1'0"

EFFLUENT TROUGH DETAILS



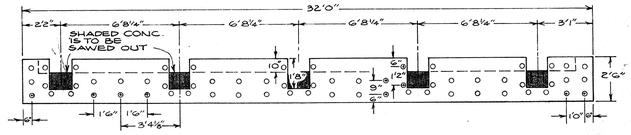
EFFLUENT TROUGH & BAFFLE SUPPORT DETAILS

SCALE: 3/4" = 1'0"



FIBERGLAS BAFFLE NO. 1

SCALE: 3/4" = 1'0"



FIBERGLAS BAFFLE NO. 2

SCALE: 3/4" = 1'0"

WILLIS H. LEWIS REGISTERED ENGINEER CERTIFICATE NO. 7733 STATE OF TENNESSEE

Lewis & Kuhlman Engineers INCORPORATED NASHVILLE, TENNESSEE

REVISIONS:

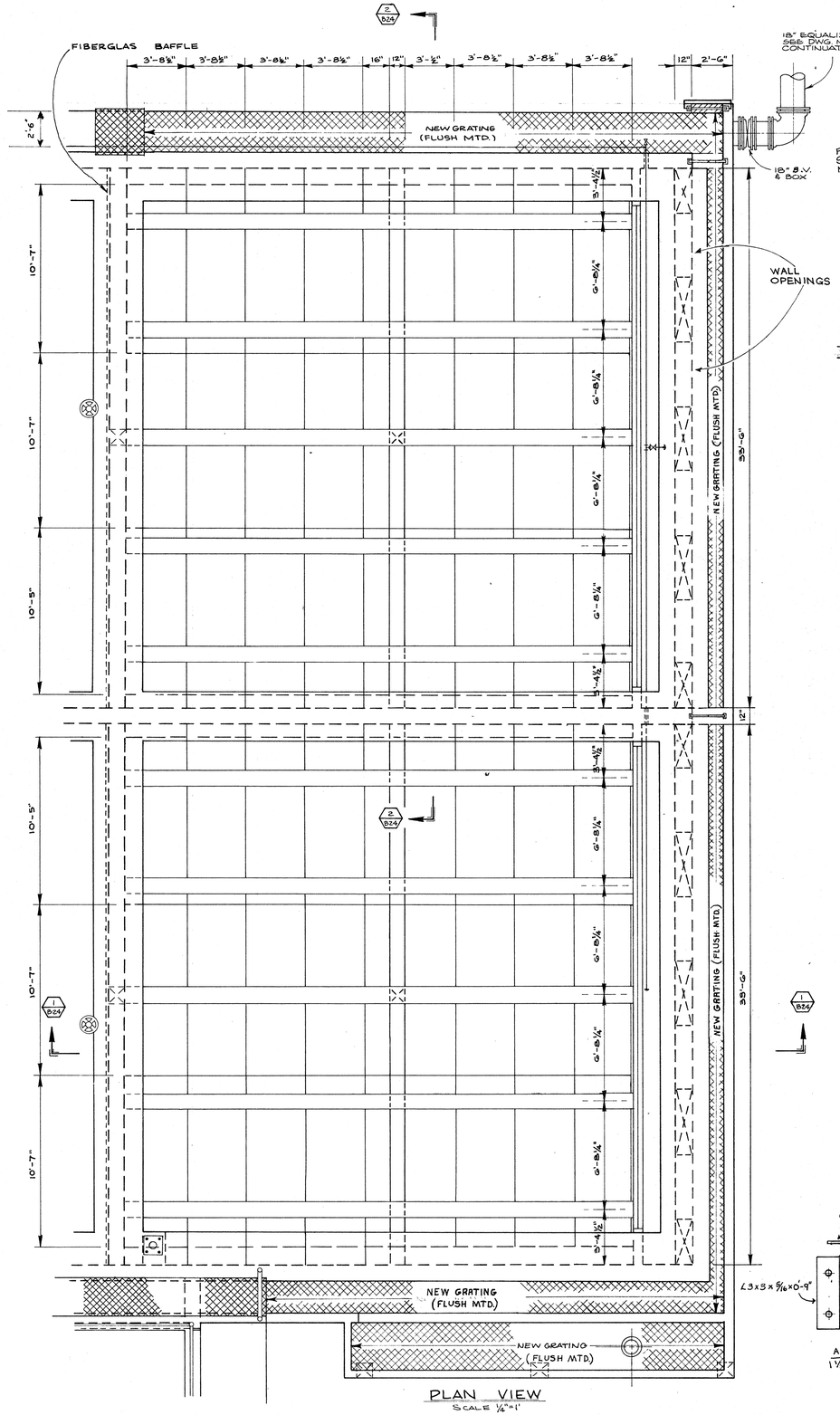
CITY OF MURFREESBORO
MURFREESBORO, TENNESSEE

STONES RIVER WATER TREATMENT PLANT

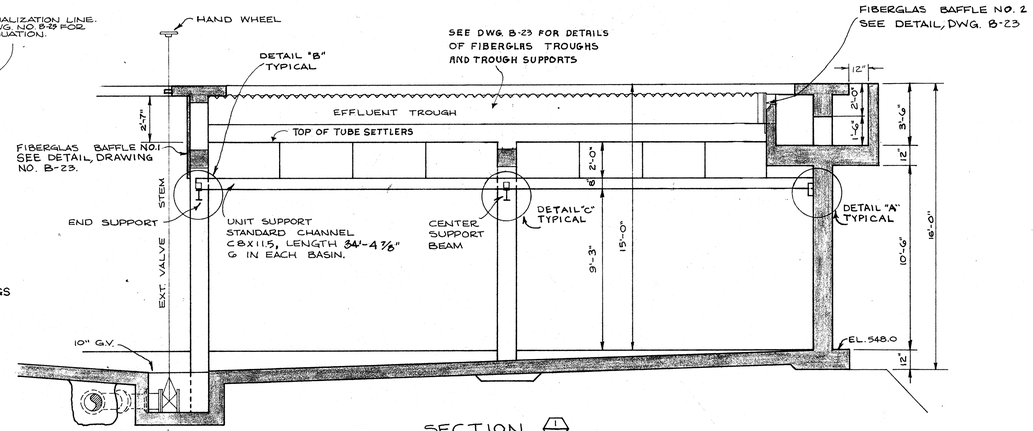
EXISTING SOFTENING & SETTLING BASINS
PLAN & DETAILS

DESIGNED BY	T.L.
DRAWN BY	LG & BGL
CHECKED BY	RWL
DATE	4-17-79
PROJECT NO.	78-125
SCALE:	AS NOTED
SHEET NUMBER	B-23 OF 35

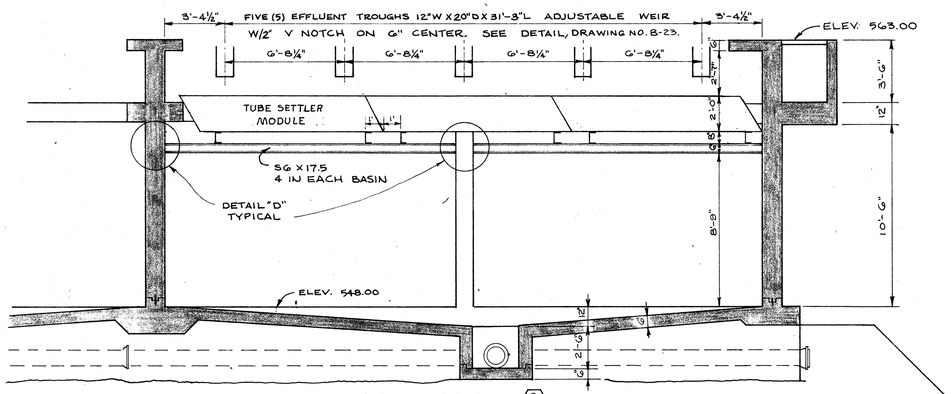
NASHVILLE BLUE PRINT & SUPPLY CO.



PLAN VIEW
SCALE 1/4"=1'



SECTION
SCALE 1/4"=1'

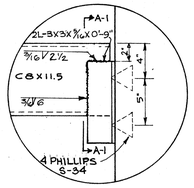


SECTION
SCALE 1/4"=1'

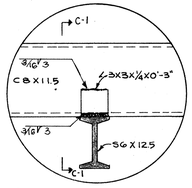
NOTES:

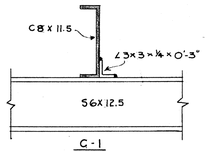
1. SUPPORTS & ATTACHMENTS FOR EFFLUENT TROUGHS AND FIBERGLASS BAFFLE TO BE FURNISHED BY THE MANUFACTURER OF THE TROUGHS AND INSTALLED IN ACCORDANCE WITH DETAILS AND RECOMMENDATIONS FURNISHED BY THE MANUFACTURER.
2. TUBE SETTLERS TO BE INSTALLED IN ACCORDANCE WITH DETAILS AND RECOMMENDATIONS OF THE MANUFACTURER.

DETAIL "A" TYPICAL
SCALE 1½"=1'

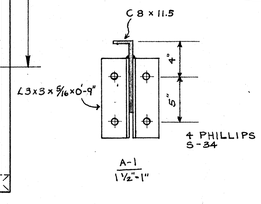


DETAIL "C" TYPICAL
SCALE 1½"=1'



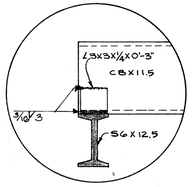


C-1
1¼"=1'



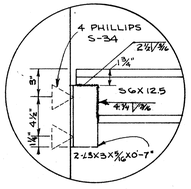
A-1
1½"=1'

DETAIL "B" TYPICAL
SCALE 1½"=1'



NOTE: ALL WELDS TO BE MADE WITH E 70 XX ELECTRODE AND TO HAVE A THROAT OF AT LEAST 3/16 INCH.

DETAIL "D" TYPICAL
SCALE 1½"=1'



WILLIAM H. LEWIS
TENNESSEE
STATE OF

Lewis & Kuhlman Engineers
INCORPORATED
NASHVILLE, TENNESSEE

REVISIONS:

CITY OF MURFREESBORO
MURFREESBORO, TENNESSEE

STONES RIVER WATER TREATMENT PLANT

EXISTING SETTLING BASINS PLAN, SECTIONS, & TUBE SETTLER & COLLECTION TROUGH DETAILS

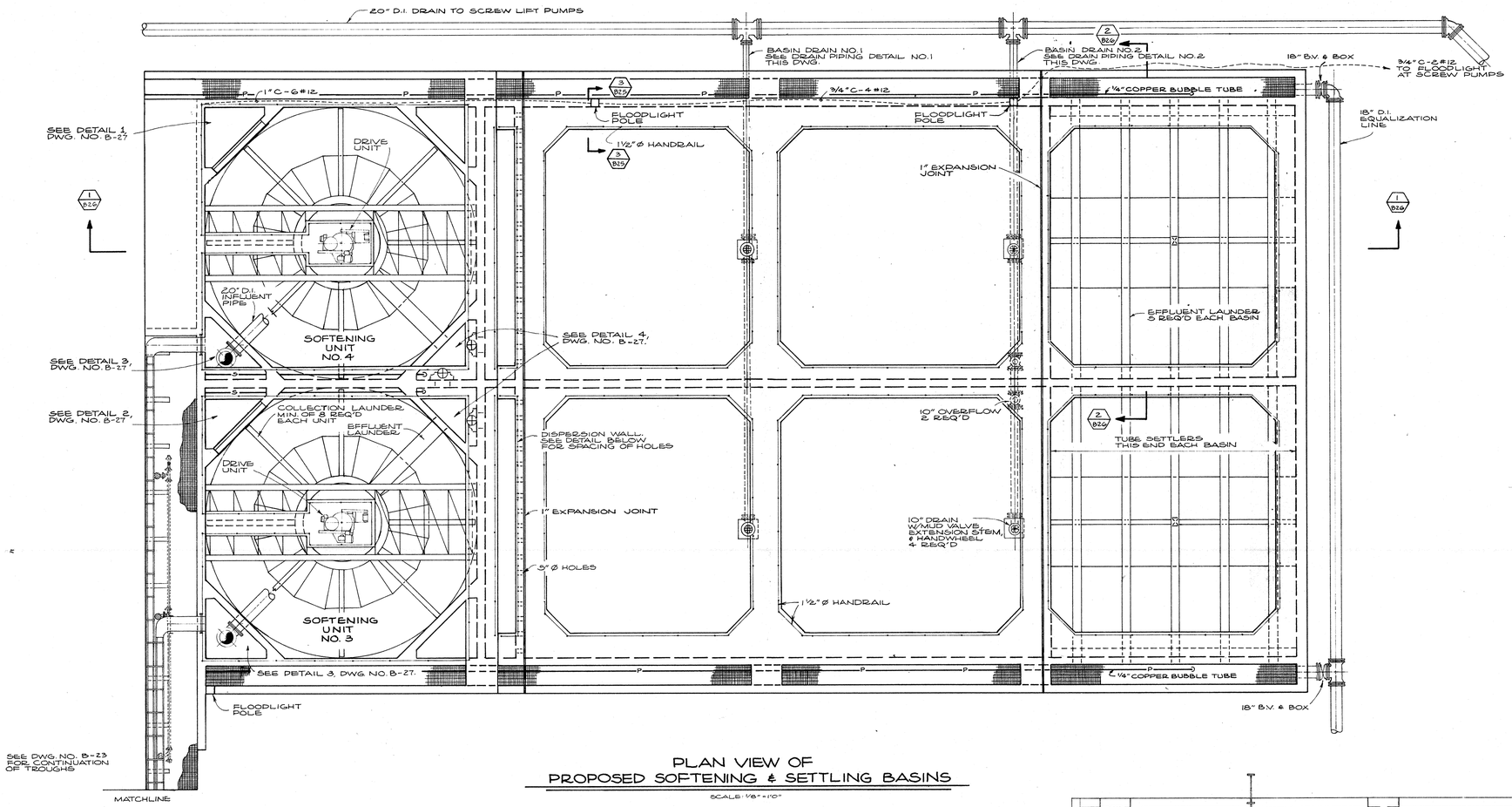
DESIGNED BY	TKL
DRAWN BY	RPH
CHECKED BY	RWL
DATE	4-17-79
PROJECT NO.	78-125

SCALE: AS NOTED

SHEET NUMBER

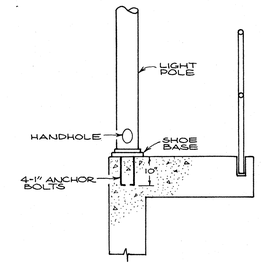
B-24 OF 35

NASHVILLE BLUE PRINT & SUPPLY CO.



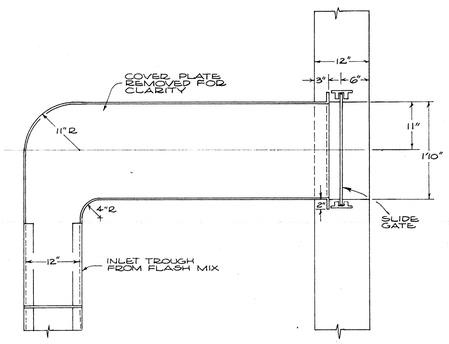
PLAN VIEW OF PROPOSED SOFTENING & SETTLING BASINS

SCALE: 1/8" = 1'0"



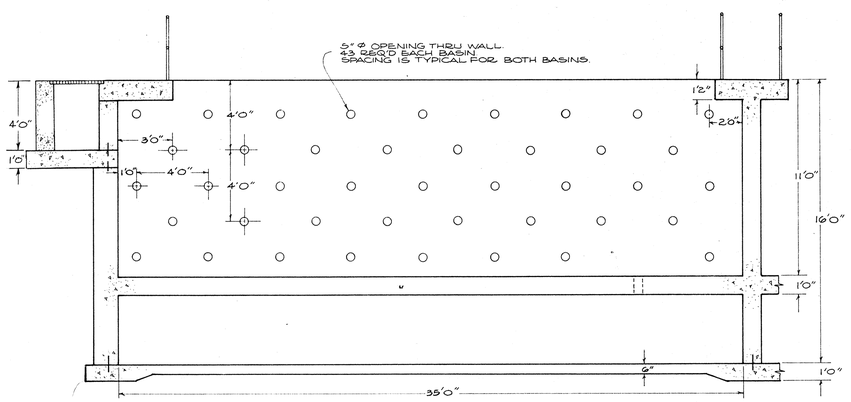
SECTION

SCALE: 1 1/2" = 1'0"



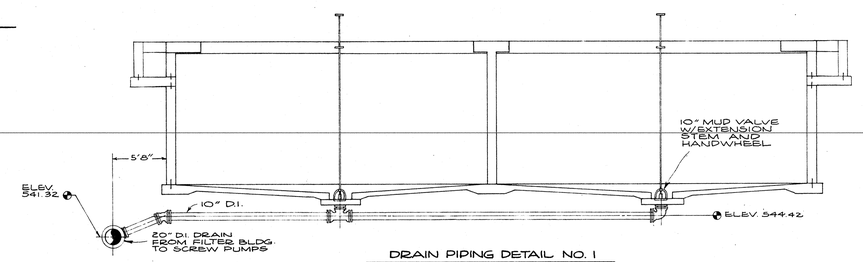
DETAIL OF INLET TROUGH TO SOFTENING BASIN

SCALE: 3/4" = 1'0"



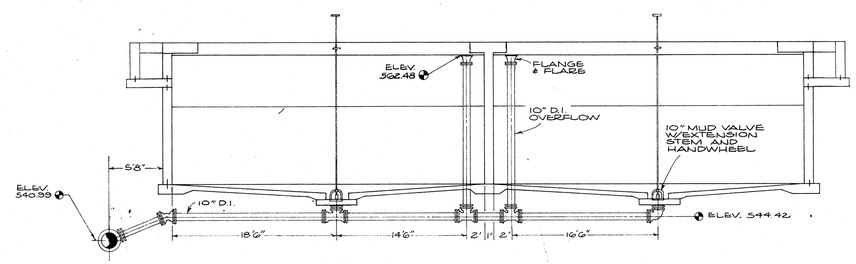
DISPERSION WALL DETAIL

SCALE: 1/4" = 1'0"



DRAIN PIPING DETAIL NO. 1

SCALE: 1/8" = 1'0"



DRAIN PIPING DETAIL NO. 2

SCALE: 1/8" = 1'0"

Lewis & Kuhlman Engineers
INCORPORATED
NASHVILLE, TENNESSEE

WILLIS H. LEWIS
STATE OF TENNESSEE

REVISIONS:

CITY OF MURFREESBORO
MURFREESBORO, TENNESSEE

STONES RIVER WATER TREATMENT PLANT

PROPOSED SOFTENING & SETTLING BASINS
PLAN, SECTIONS, & DETAILS

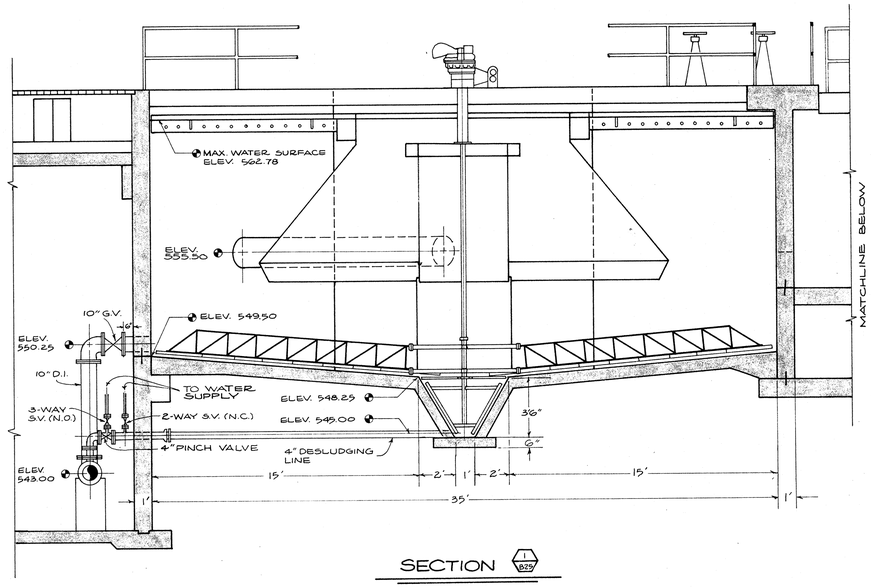
DESIGNED BY	TKL
DRAWN BY	BGL
CHECKED BY	RWL
DATE	4-17-79
PROJECT NO.	78-125

SCALE: AS NOTED

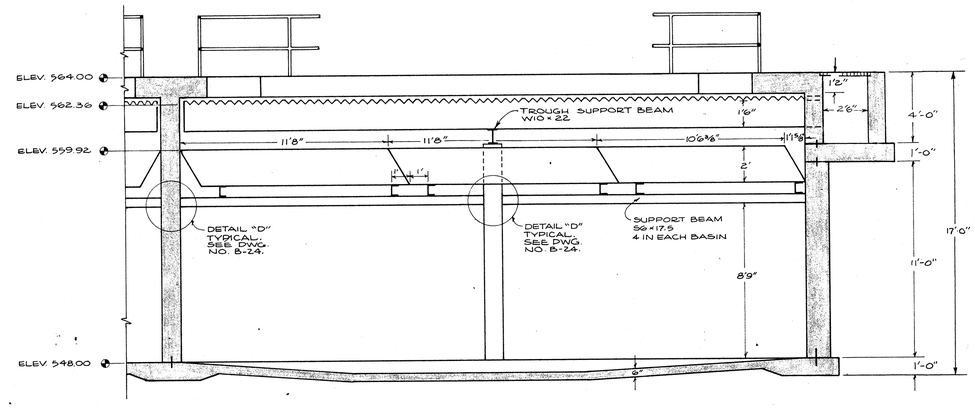
SHEET NUMBER

B-25 OF 35

NASHVILLE BLUE PRINT & SUPPLY CO.



SECTION 1/B25



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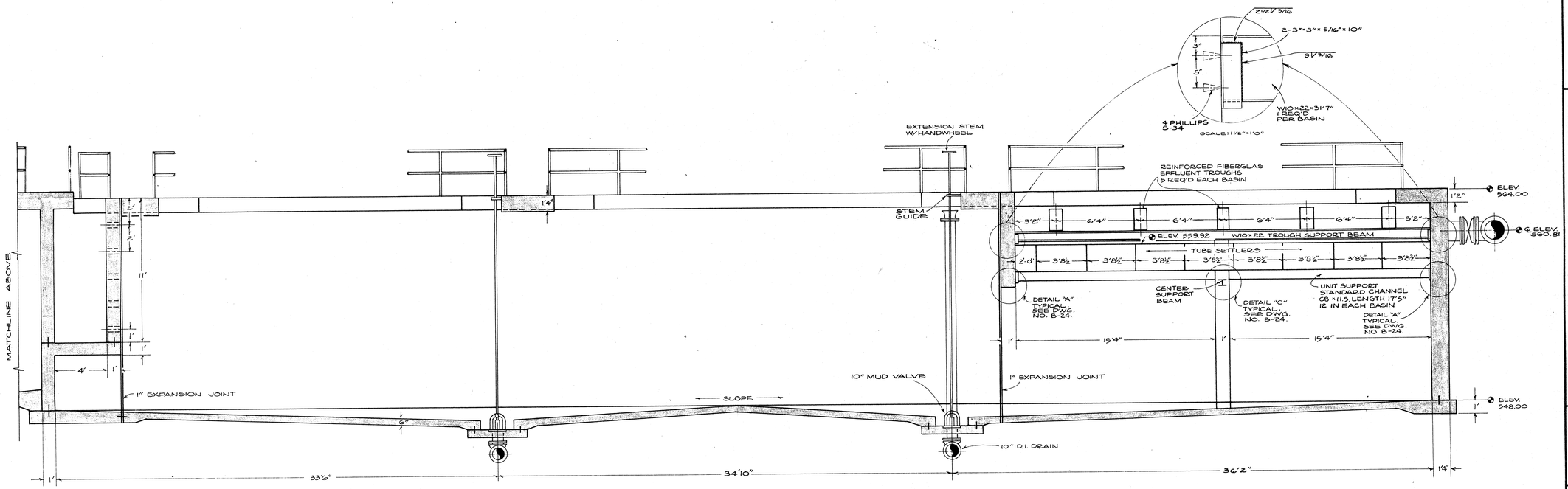

SECTION 1/B25

Lewis & Kuhlman Engineers
INCORPORATED
NASHVILLE, TENNESSEE

REVISIONS:

CITY OF MURFREESBORO
MURFREESBORO, TENNESSEE

STONES RIVER WATER TREATMENT PLANT

PROPOSED SOFTENING & SETTLING BASINS SECTIONS 1 & 2

DESIGNED BY	TKL
DRAWN BY	BGL
CHECKED BY	RWL
DATE	4-17-79
PROJECT NO.	78-125

SCALE: ¼"=1'0"

SHEET NUMBER

B-26 OF 35

NASHVILLE BLUE PRINT & SUPPLY CO.