

CONSTRUCTION DRAWINGS OF

GREENLAND ROAD, DUVAL COUNTY BATCH PLANT INDUSTRIAL WASTEWATER SYSTEM FOR

TARMAC AMERICA, INC.

RECEIVED

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DEPT. OF ENV. PROTECTION
NORTHEAST DISTRICT - JAX

SITE OWNER

TARMAC AMERICA, INC.

455 FAIRWAY DRIVE

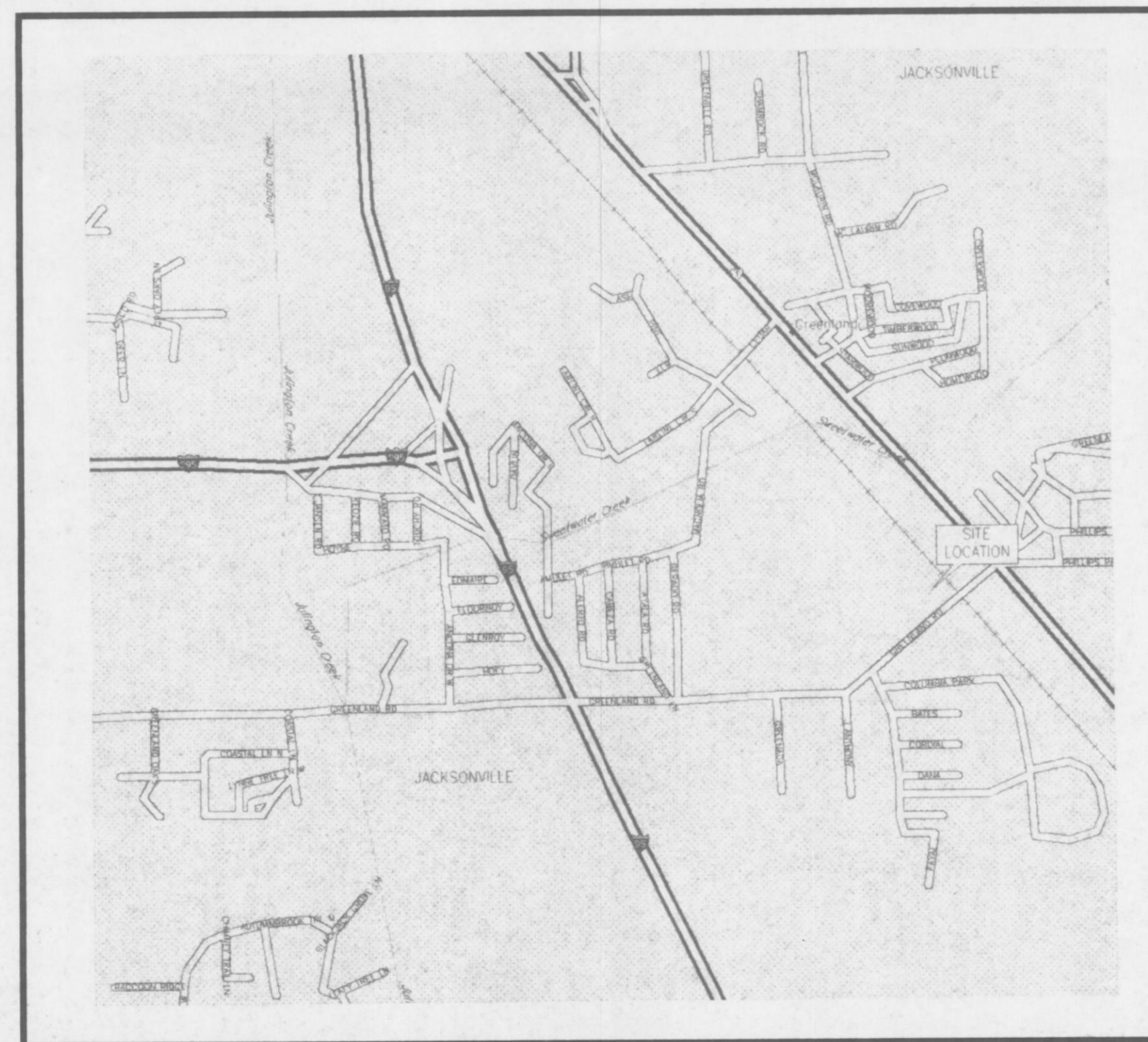
DEERFIELD BEACH, FLORIDA 33441

TEL: (954) 481-2800

LEGAL DESCRIPTION

(as provided by client)

PART OF THE SOUTH 1/2 OF THE SOUTHEAST 1/4 OF SECTION 12, TOWNSHIP 4 SOUTH, RANGE 27 EAST, DUVAL COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHEAST CORNER OF SAID SECTION 12, THENCE NORTH 00°02'WEST, 768.44 FEET ALONG THE EAST LINE OF SAID SECTION 12 TO A POINT; THENCE NORTH 40°57'30"WEST, 162.43 FEET TO AN IRON IN THE NORTHWESTERLY LINE OF GREENLAND ROAD (A 60 FOOT RIGHT OF WAY) AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 40°57'30"WEST ALONG THE SOUTHWESTERLY LINE OF THE LANDS DESCRIBED IN DEED BOOK 321, PAGE 160, CURRENT PUBLIC RECORDS OF DUVAL COUNTY, FLORIDA 611.36 FEET TO AN IRON; THENCE SOUTH 89°17'27"WEST ALONG THE SOUTHERLY LINE OF THE LANDS DESCRIBED IN DEED BOOK 1281, PAGE 69, CURRENT PUBLIC RECORDS OF DUVAL COUNTY, FLORIDA, 796.11 FEET TO AN IRON AT THE NORTHEAST CORNER OF THE LANDS DESCRIBED IN OFFICIAL RECORDS VOLUME 5495, PAGE 595, CURRENT PUBLIC RECORDS OF DUVAL COUNTY, FLORIDA; THENCE SOUTH 00°37'EAST ALONG THE EASTERLY LINE OF THE LANDS DESCRIBED IN OFFICIAL RECORDS VOLUME 5495, PAGE 595, CURRENT PUBLIC RECORDS OF DUVAL COUNTY, FLORIDA, 417.1 FEET TO AN IRON; THENCE NORTH 89°23'EAST ALONG THE NORTHERLY LINE OF THE LANDS DESCRIBED IN OFFICIAL RECORDS VOLUME 3031, PAGE 44, AND OFFICIAL RECORDS VOLUME 4304, PAGE 246, CURRENT PUBLIC RECORDS OF DUVAL COUNTY, FLORIDA, AND THE WESTERLY PROJECTION OF SAID NORTHERLY LINE, 955.1 FEET TO AND IRON; THENCE SOUTH 40°57'30"EAST ALONG THE NORTHEASTERLY LINE OF THE LANDS DESCRIBED IN OFFICIAL RECORDS VOLUME 4304, PAGE 246, CURRENT PUBLIC RECORDS OF DUVAL COUNTY, FLORIDA, 201.13 FEET TO AN IRON IN THE NORTHWESTERLY LINE OF SAID GREENLAND ROAD; THENCE 44°45'20"EAST, 150.42 FEET ALONG THE NORTHWESTERLY LINE OF SAID GREENLAND ROAD TO THE POINT OF BEGINNING. AND A PORTION, GRANTED BY SPECIAL WARRANTY AGREEMENT, (GRANTOR "FEC"), ON FEBRUARY 29, 1984, PARTICULARLY THAT PORTION OF LAND CONVEYED FROM BARTOLA GENOVAR AND MARY L. GENOVAR TO THE FLORIDA EAST COAST RAILWAY COMPANY BY DEED DATED DECEMBER 2, 1925, AND RECORDED ON DECEMBER 9, 1925, IN DEED BOOK 321 AT PAGE 160 OF THE PUBLIC RECORDS OF DUVAL COUNTY, FLORIDA, THAT LIES NORTHERLY OF GREENLAND ROAD. THE LAND HEREBY CONVEYED BEING A STRIP OF LAND ONE HUNDRED FEET (100') WIDE, HAVING AS ITS NORTHERLY BOUNDARY THE NORTH LINE OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 12, TOWNSHIP 4 SOUTH, RANGE 27 EAST, AND HAVING AS ITS EASTERLY BOUNDARY THE WESTERLY RIGHT OF WAY LINE ABOVE SAID RAILWAY'S ONE HUNDRED FEET (100') WIDE OPERATING RIGHT OF WAY AND HAVING AS ITS WESTERLY BOUNDARY A LINE THAT IS ONE HUNDRED FEET (100') WESTERLY OF AND PARALLEL TO SAID WESTERLY OPERATING RIGHT OF WAY LINE, AND HAVING AS ITS SOUTHERLY BOUNDARY THE NORTHERLY LINE OF GREENLAND ROAD; EASEMENT FOR INGRESS AND EGRESS OVER AND ACROSS AFORESAID LAND THAT LIES NORTHERLY OF GREENLAND ROAD, GRANTED TO JAMES DUDLEY, JULY 2, 1990.



LOCATION MAP

GREENLAND ROAD BATCH PLANT	
SHEET INDEX	
SHEET NO.	TITLE
1	COVER SHEET
2	BOUNDARY AND TOPOGRAPHIC SURVEY
3	INDUSTRIAL WASTEWATER SYSTEM
4-5	CONSTRUCTION DETAILS AND NOTES
6	TYPE II WASTEWATER AREA & DETAILS

Creative Environmental Solutions, Inc.

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No.	Date	Revision	By	Appr.

Roblyca
Rg

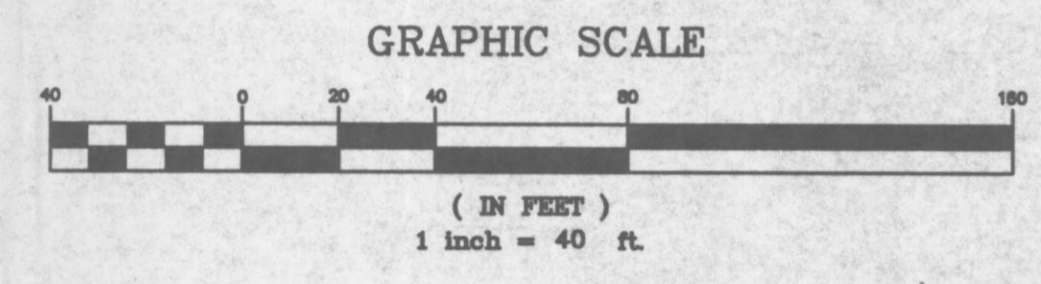
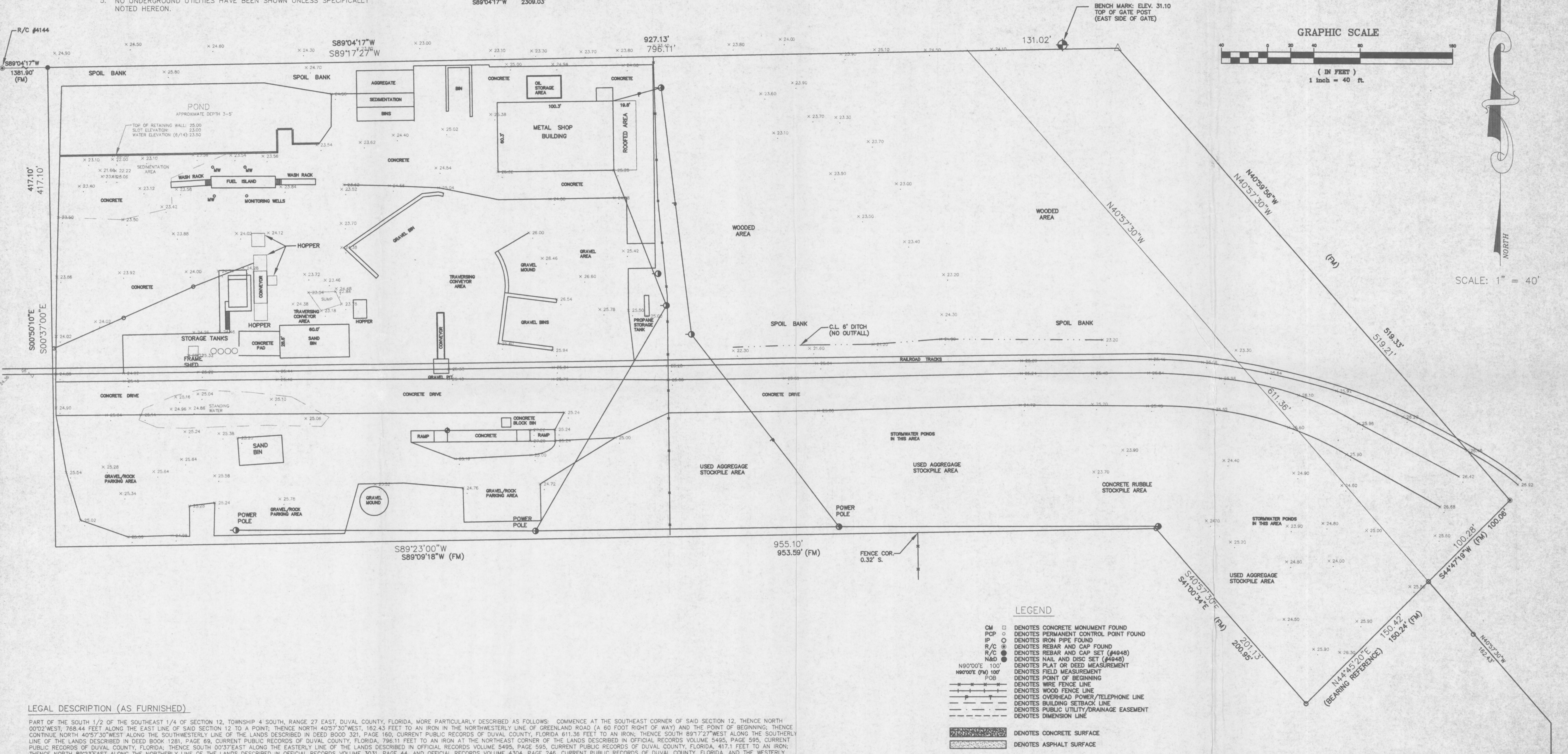
TARMAC FLORIDA, INC. — GREENLAND ROAD

SPECIFIC PURPOSE SURVEY IN THE S.E. 1/4 OF SECTION 12, TOWNSHIP 4 SOUTH, RANGE 27 EAST JACKSONVILLE, DUVAL COUNTY, FLORIDA

SURVEYOR'S NOTES

1. THE BEARING STRUCTURE SHOWN HEREON IS BASED ON THE LEGAL DESCRIPTION AS FURNISHED.
2. I DO HEREBY CERTIFY THAT THIS SURVEY CONFORMS TO THE MINIMUM TECHNICAL STANDARDS AS PER CHAPTER 61G17-6, F.A.C., PURSUANT TO SECTION 472.027, FLORIDA STATUTES.
3. ONLY EASEMENTS WHICH APPEAR ON A RECORD PLAT OR FURNISHED TO THE SURVEYOR HAVE BEEN SHOWN.
4. FENCE TIES SHOWN HEREON ARE TO THE EXTERIOR SIDE OF THE FENCE, AS PER THE ESTIMATION OF OWNERSHIP THEREOF, AS DETERMINED BY THIS SURVEYOR.
5. NO UNDERGROUND UTILITIES HAVE BEEN SHOWN UNLESS SPECIFICALLY NOTED HEREON.

NORTH LINE OF THE SOUTH 1/2
OF THE SW 1/4 PER FOUND MONUMENTATION
S89°04'17"W 2309.03'



SCALE: 1" = 40'

LEGEND

- CM □ DENOTES CONCRETE MONUMENT FOUND
- PCP ○ DENOTES PERMANENT CONTROL POINT FOUND
- IP ○ DENOTES IRON PIPE FOUND
- R/C ○ DENOTES REBAR AND CAP FOUND
- R/C ⊙ DENOTES REBAR AND CAP SET (#4948)
- N&D ⊙ DENOTES NAIL AND DISC SET (#4948)
- N90°00'E 100' DENOTES PLAT OR DEED MEASUREMENT
- N90°00'E (FM) 100' DENOTES FIELD MEASUREMENT
- FOB ○ DENOTES POINT OF BEGINNING
- — — — — DENOTES WIRE FENCE LINE
- — — — — DENOTES WOOD FENCE LINE
- — — — — DENOTES OVERHEAD POWER/TELEPHONE LINE
- — — — — DENOTES BUILDING SETBACK LINE
- — — — — DENOTES PUBLIC UTILITY/DRAINAGE EASEMENT
- — — — — DENOTES DIMENSION LINE
- ▨ DENOTES CONCRETE SURFACE
- ▨ DENOTES ASPHALT SURFACE

LEGAL DESCRIPTION (AS FURNISHED)

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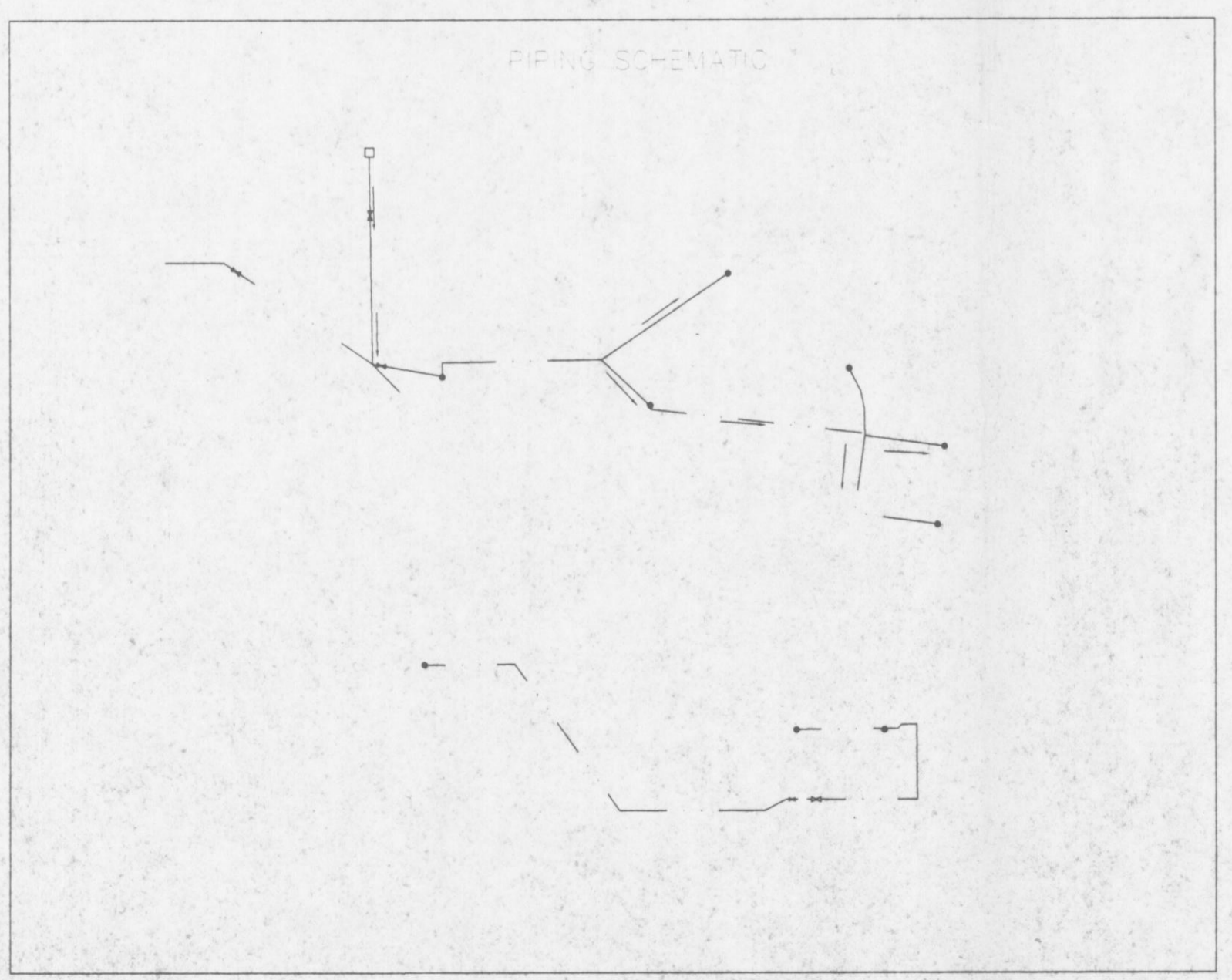
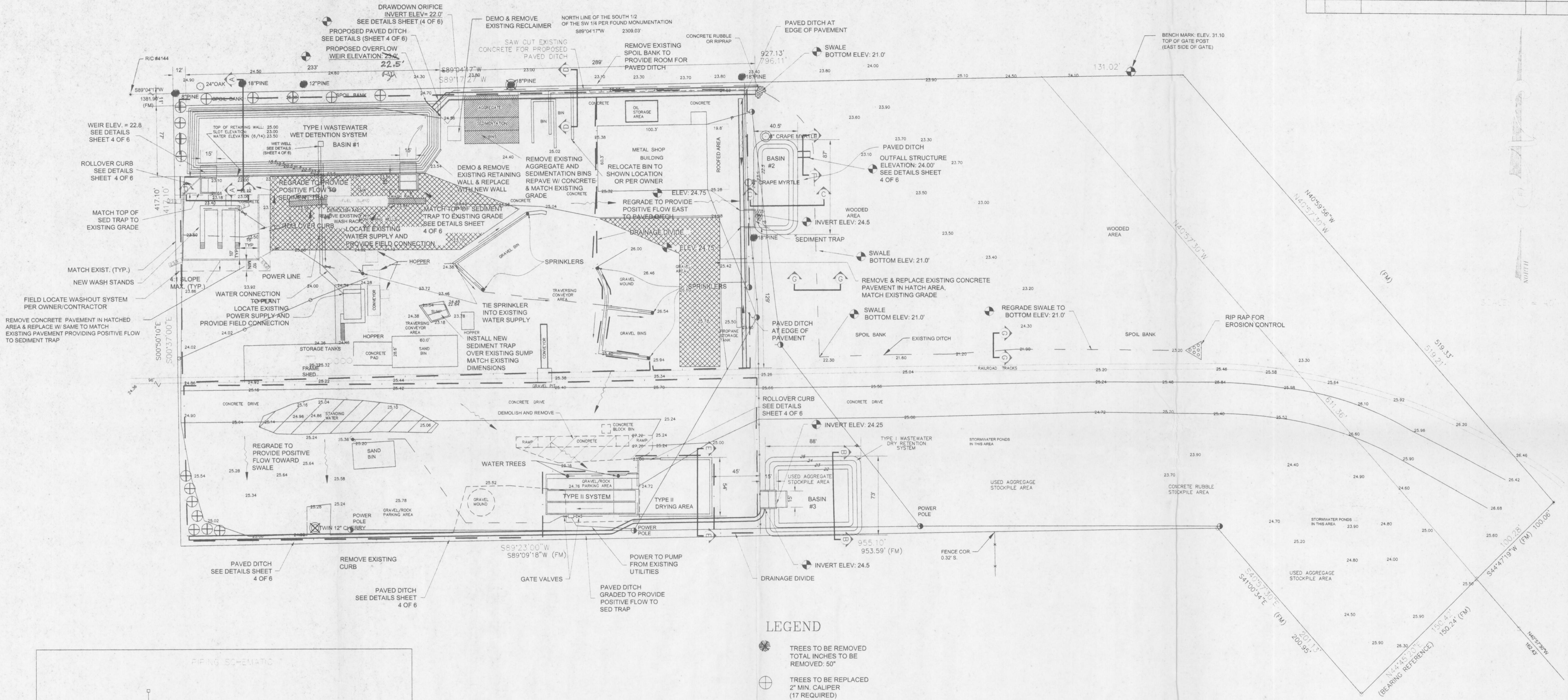
SURVEY PREPARED BY:
CHARLES D. SAPP, P.L.S.
FLORIDA CERT. NO. 4948

DATE OF FIELD SURVEY: _____

SHEET 2 OF 6

<p>CHARLES D. SAPP CONSULTING ENGINEER — LAND SURVEYOR 4051 N.W. 43RD. STREET, SUITE 31 GAINESVILLE, FLORIDA, 32606 (352)336-3555</p>	<p>DRAWN BY: CDS CHECKED BY: CDS DATE: 6-20-97 SCALE: 1" = 40' PROJECT NO.: 97-63</p>	<p>SHEET NOT VALID WITHOUT EMBOSSED SURVEYOR'S SEAL TARMACGR</p>																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NO.</th> <th style="width: 40%;">DATE</th> <th style="width: 40%;">DESCRIPTION</th> <th style="width: 10%;">BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION	BY																																											
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LEGEND

- ⊗ TREES TO BE REMOVED
TOTAL INCHES TO BE REMOVED: 50"
- ⊕ TREES TO BE REPLACED
2" MIN. CALIPER
(17 REQUIRED)
- 3 TREES TO BE REMOVED
TREE SCIENTIFIC NAME SIZE
1. LONGLEAF PINE *Pinus palustris* 18"
2. GRAPE MYRTLE *Lagastromia* 8"
3. BLACK CHERRY *Prunus serotina* 12" (twin)

█ DENOTES REMOVED STRUCTURE

NOTE: ALL WATERLINES TO BE CONSTRUCTED WITH GALVANIZED STEEL
NOTE: ALL ELECTRICAL CONDUIT TO BE GALVANIZED STEEL

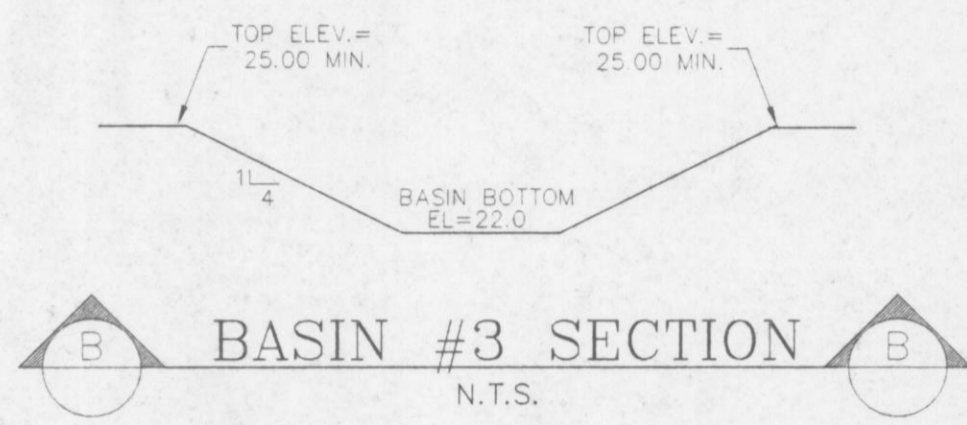
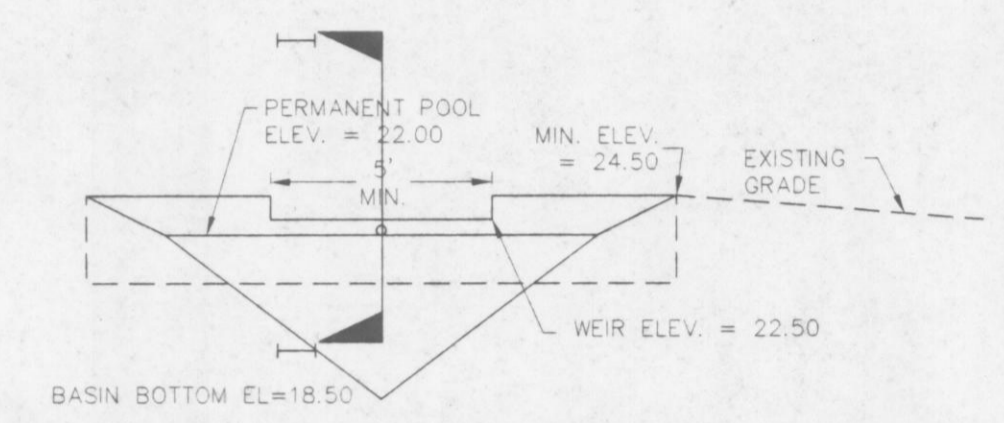
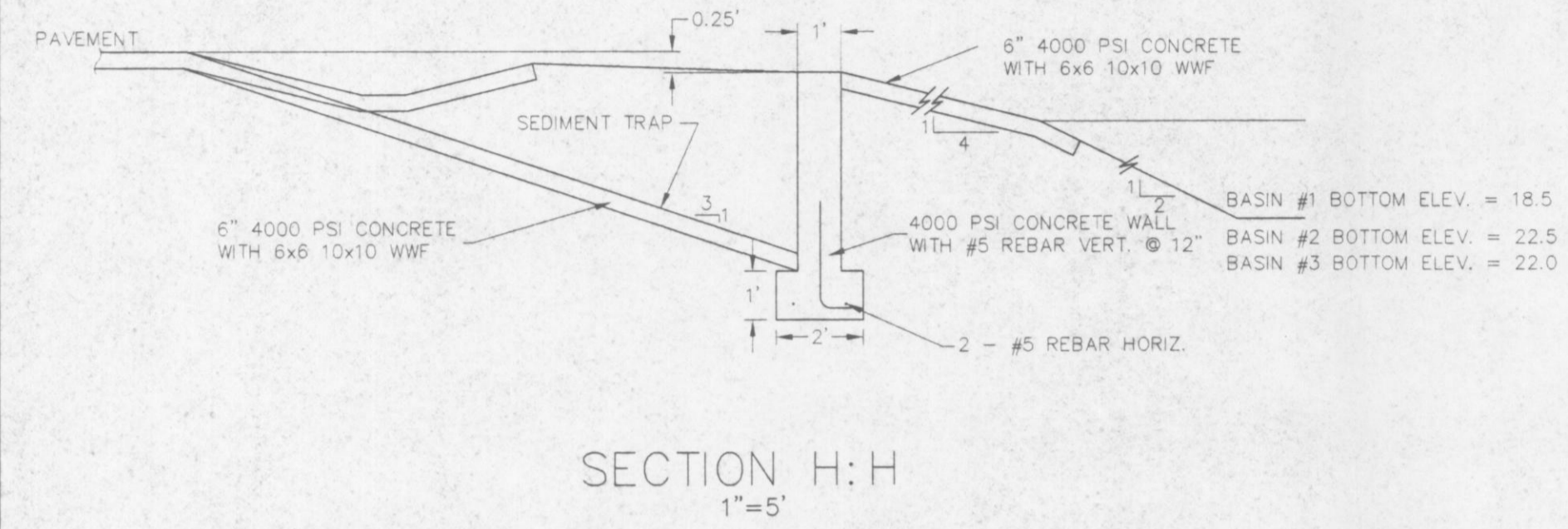
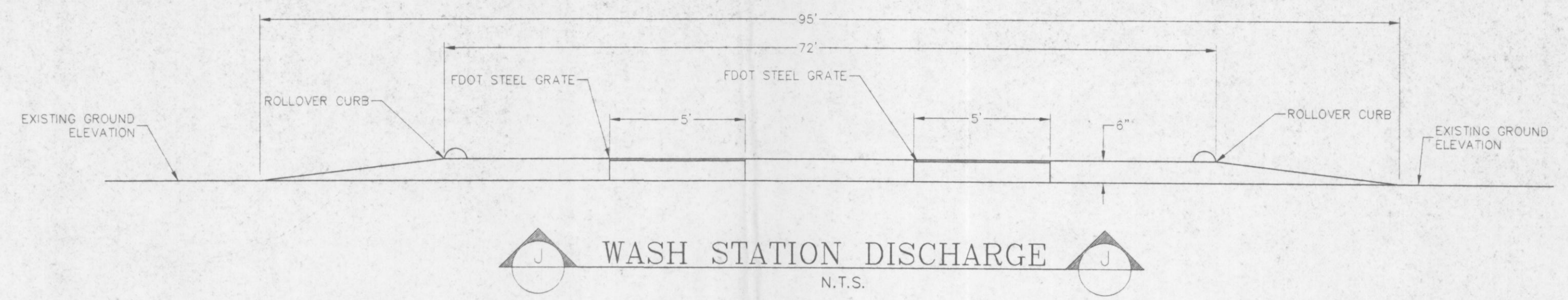
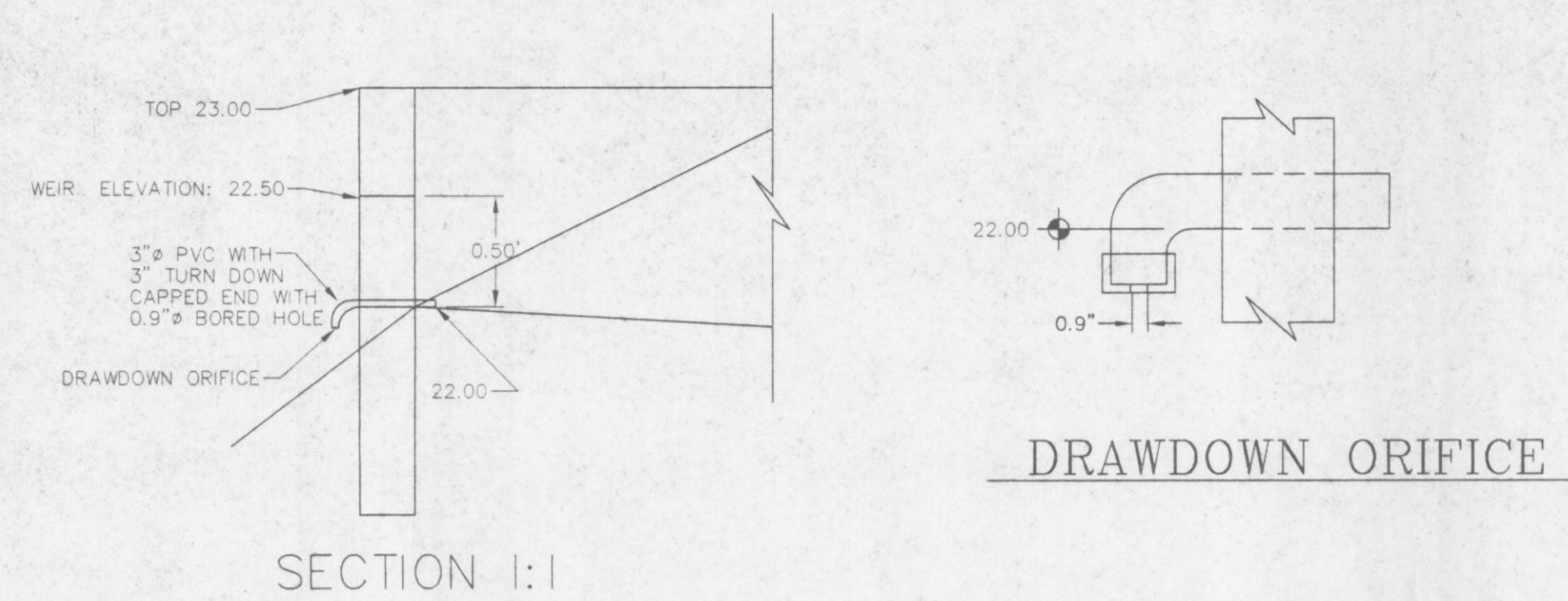
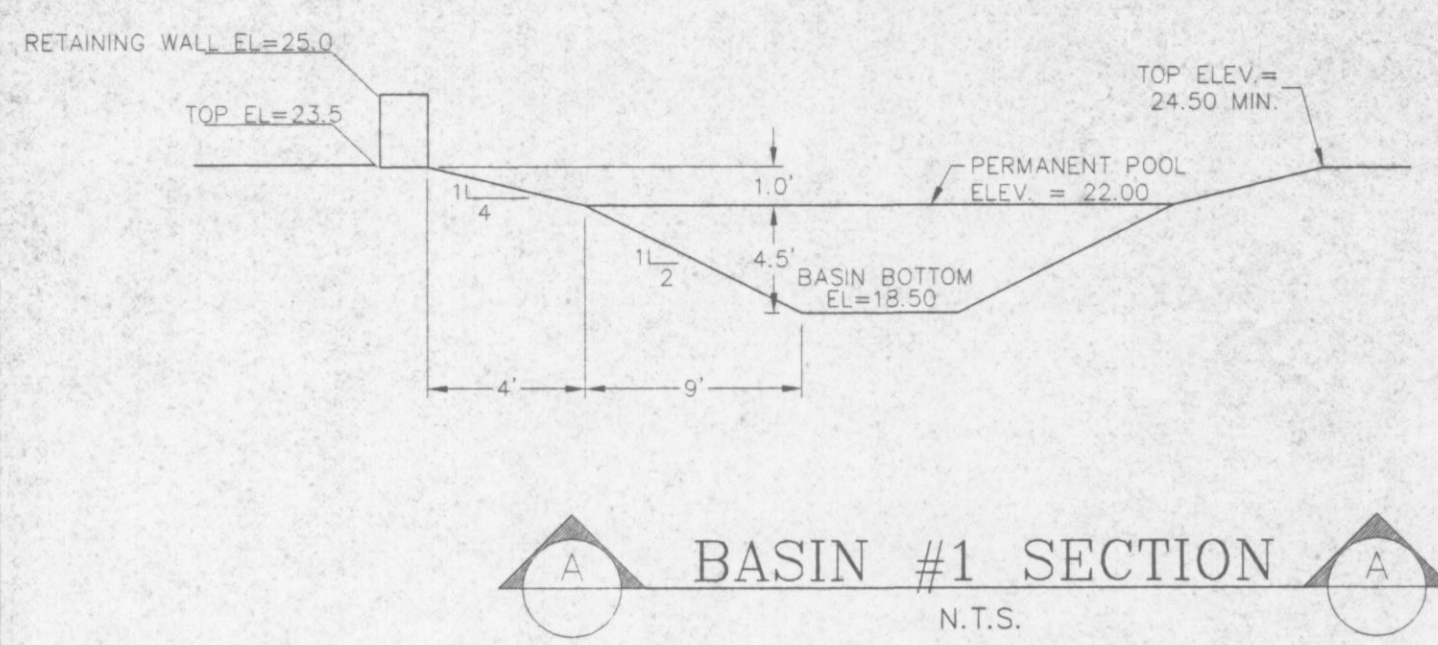
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INDUSTRIAL WASTEWATER SYSTEM
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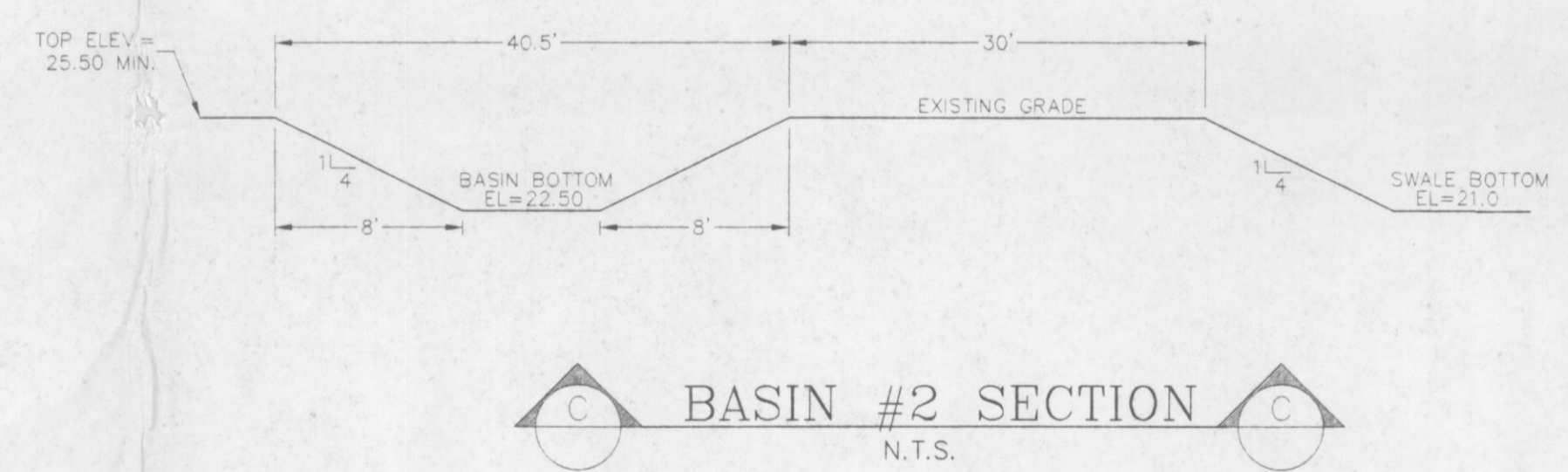
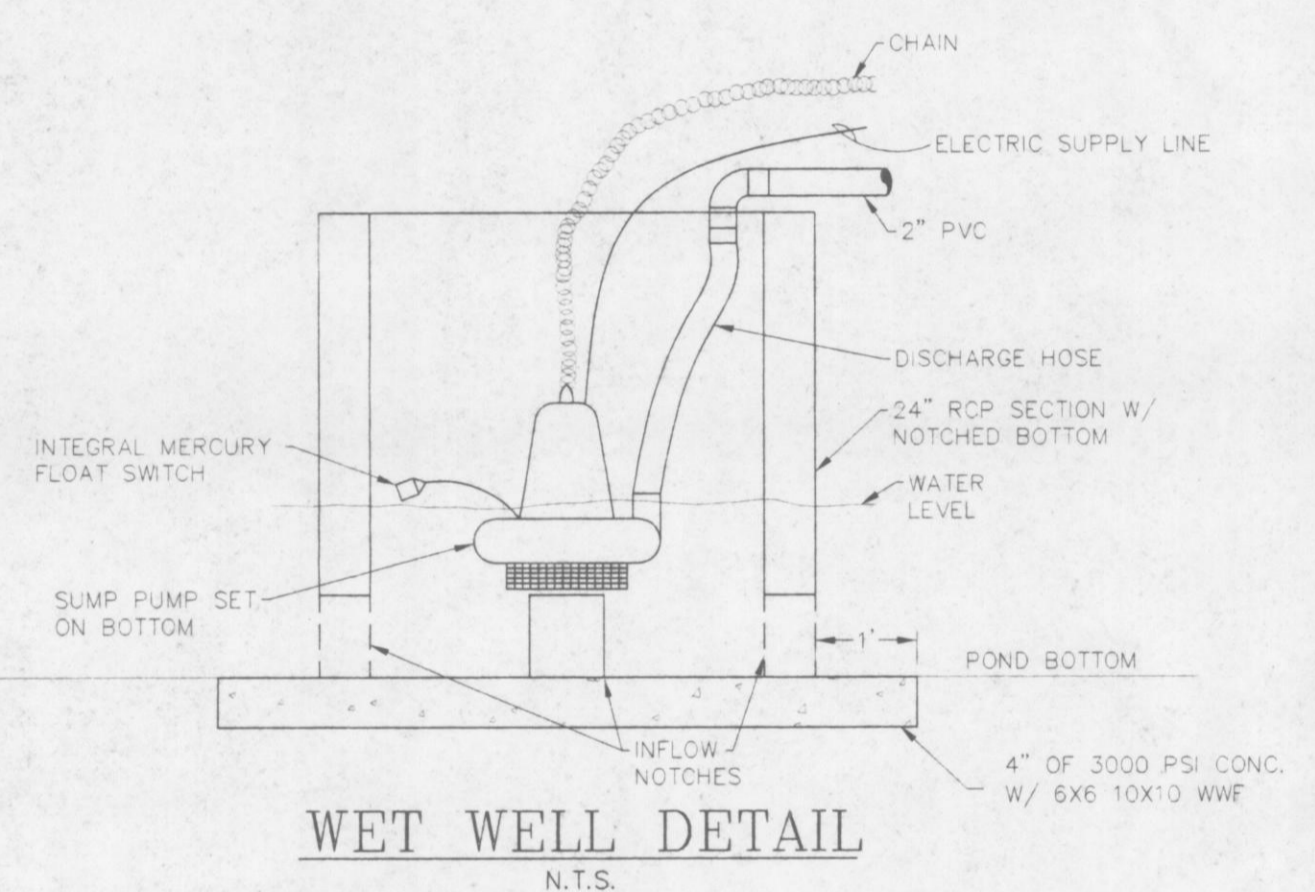
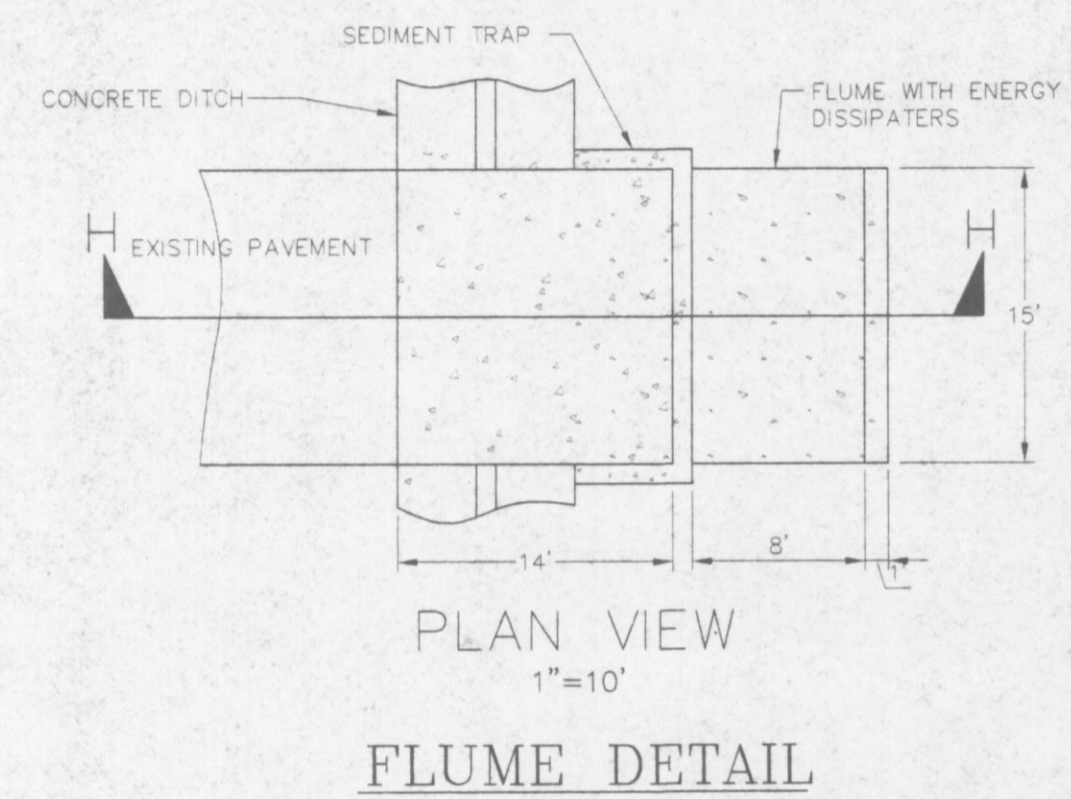
PROJECT NO.
94002-3-97
PROJECT MGR.
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JULY
1998
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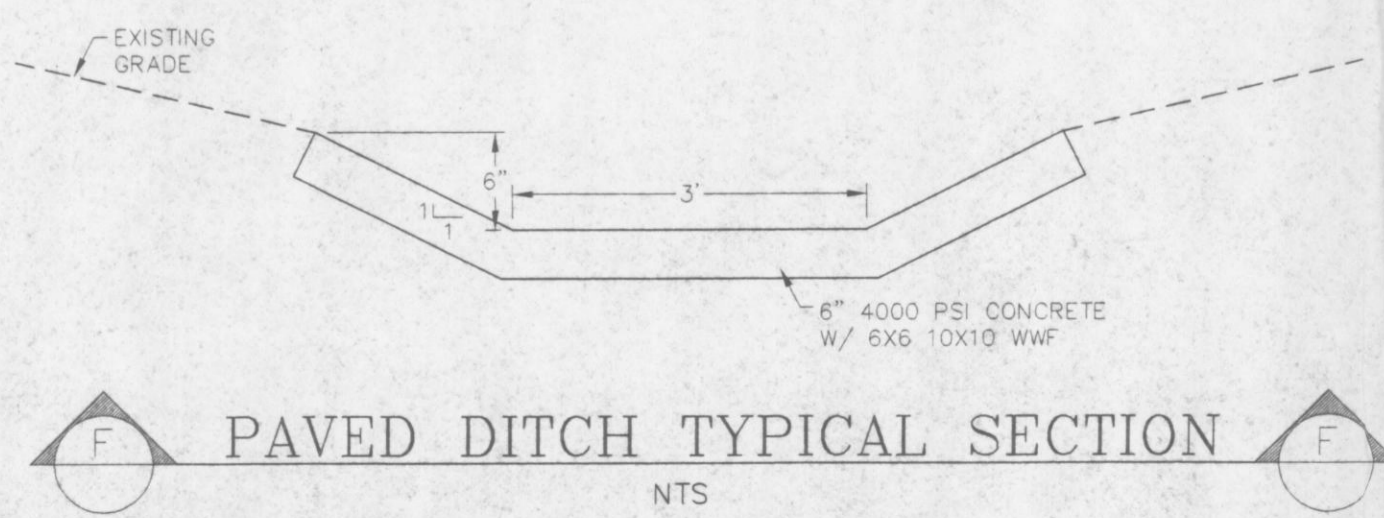
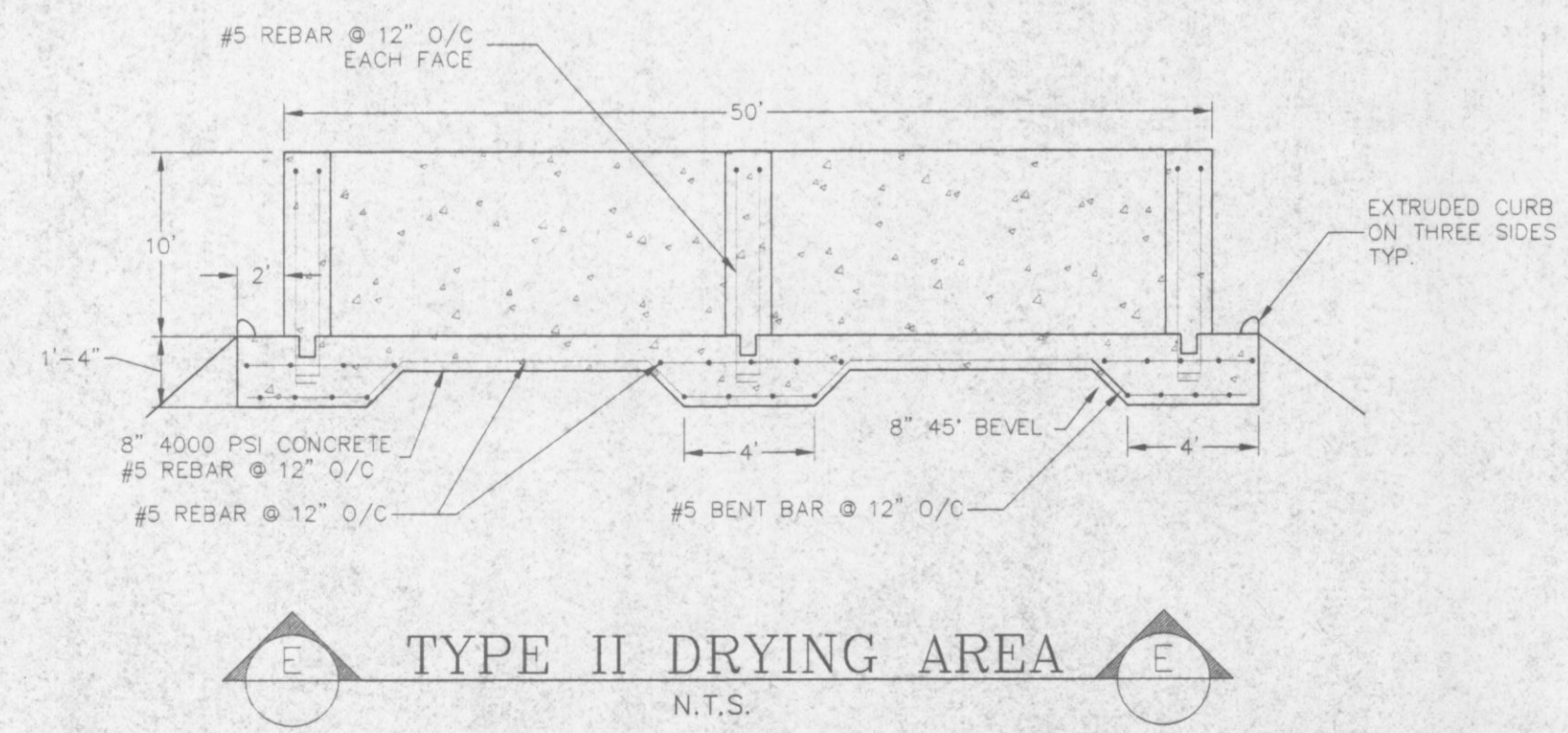
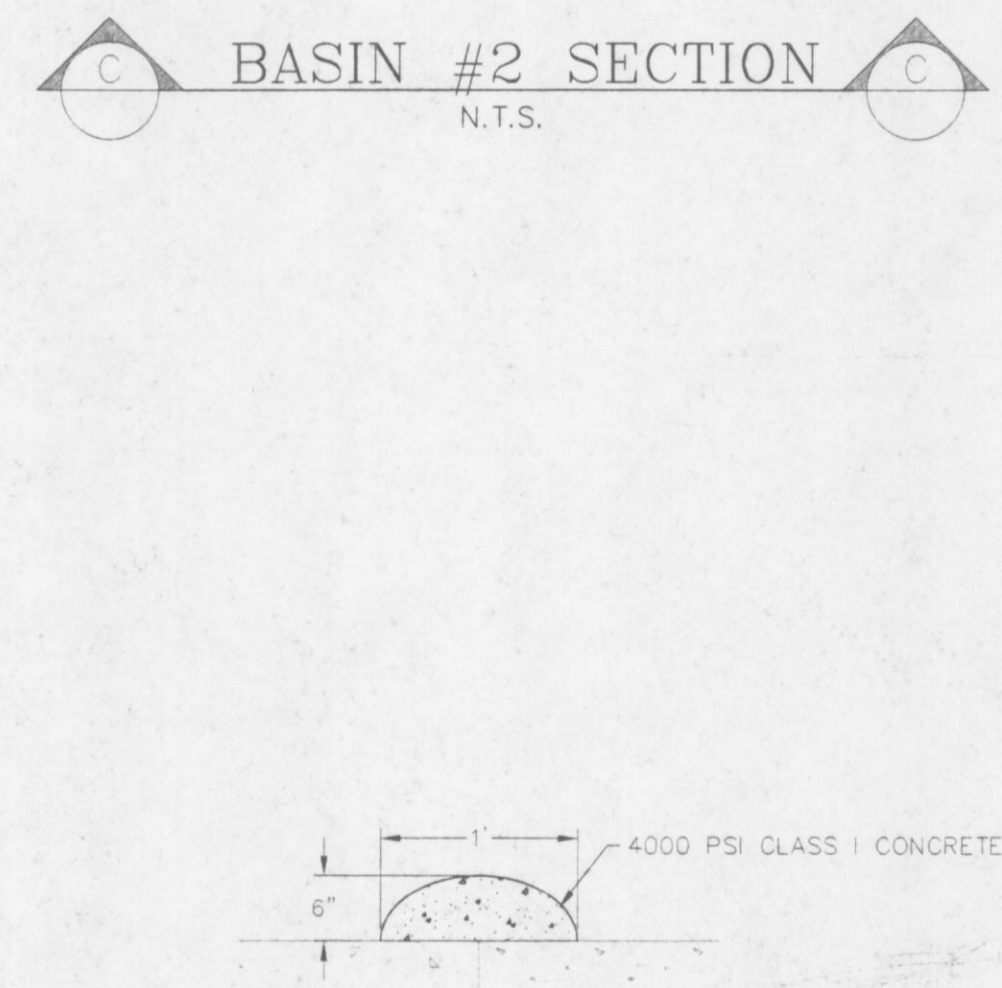
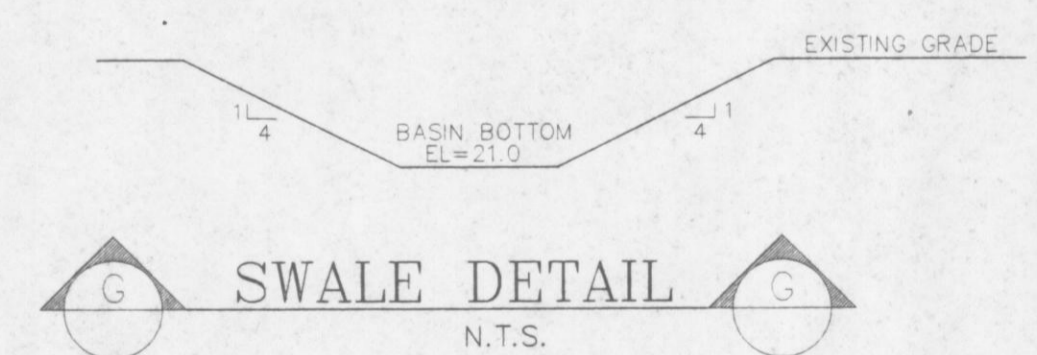
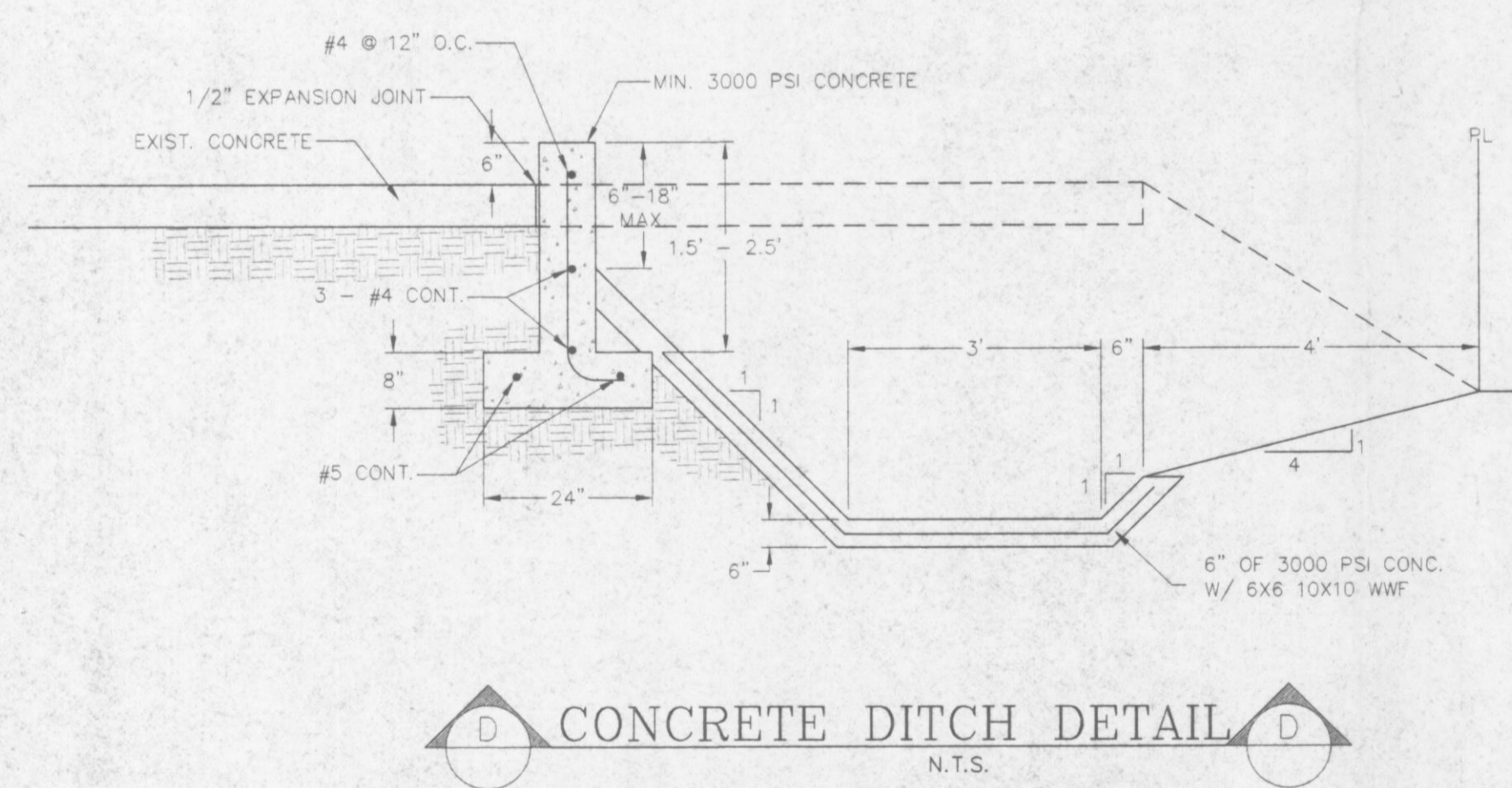
Professional Engineer Seal
10/21/98



- CONSTRUCTION NOTES**
- GENERAL**
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL BUILDING PERMITS REQUIRES TO PERFORM THE WORK.
 - CONTRACTOR WILL NOTIFY THE OWNER AND ENGINEER 48 HOURS IN ADVANCE OF MOBILIZATION AND 48 HOUR IN ADVANCE OF ANY ACTIVITIES WHICH ARE SHOWN ON THE CRITICAL PATH DESCRIBED BELOW.
 - CONTRACTOR SHALL PREPARE A TIMELINE SCHEDULE SHOWING MAJOR ACTIVITIES TO BE PERFORMED AND A TIME FRAME FOR EACH. ITEMS WHICH ARE CRITICAL TO THE COMPLETION OF THE PROJECT AND WHICH MUST BE ACCOMPLISHED SEQUENTIALLY (I.E. THE CRITICAL PATH) SHALL BE HIGHLIGHTED. UPDATED SCHEDULES WILL BE PREPARED AND SUBMITTED TO THE ENGINEER EVERY TWO WEEKS DURING CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL INSPECTIONS WITH THE APPROPRIATE BUILDING DEPARTMENT OR OTHER AGENCY. THE ENGINEER SHALL CONDUCT PERIODIC INSPECTIONS OF THE WORK AND SHALL BE AVAILABLE TO ASSIST IN RESOLVING FIELD ISSUES.
- EROSION CONTROL**
- CONTRACTOR SHALL INSTALL SILT FENCE AROUND ALL WORK AREAS IN ORDER TO CONTROL THE EROSION OF SOILS ADJACENT TO THE WORK AREA. IN AREAS WHERE SEVERE EROSION IS POSSIBLE (I.E. DITCHES, SWALES) CONTRACTOR SHALL INSTALL DOUBLE STAKED HAY BALES TO PREVENT BREACHING OF THE SILT FENCE. ALL EROSION CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST FDOT INDEX FOR EROSION CONTROL MEASURES.
 - CONTRACTOR SHALL INSPECT AND REPAIR EROSION CONTROL SYSTEM IMMEDIATELY FOLLOWING A STORM EVENT AND SHALL REPAIR ANY DEFICIENCIES PRIOR TO THE NEXT STORM EVENT.
- EXCAVATION**
- CONTRACTOR SHALL PERFORM EXCAVATION AS NECESSARY TO ACHIEVE THE LINES AND GRADES SHOWN ON THE PLANS. CONTRACTOR SHALL USE APPROPRIATE MEASURES FOR THE REMOVAL OF UNSUITABLE MATERIAL FROM THE EXCAVATION.
 - THE CONTRACTOR WILL PROBABLY ENCOUNTER CONCRETE RUBBLE, WASH OUT, AND DEBRIS DURING ANY EXCAVATION ACTIVITIES. HE SHALL USE APPROPRIATE MEANS FOR THE BREAKING AND REMOVAL OF THE CONCRETE MATERIAL (I.E. HYDRAULIC JACK HAMMER, OVER EXCAVATION). CONCRETE RUBBLE AND DEBRIS SHALL NOT BE USED IN THE CONSTRUCTION OF THE BERMS OR CONTAINMENT AREAS.
 - CONCRETE MATERIALS EXCAVATED SHALL BE REMOVED FROM THE SITE AT THE CONTRACTORS EXPENSE AND SUITABLE FILL MATERIAL BROUGHT IN TO REPLACE IT. PAYMENT FOR THE REMOVAL AND REPLACEMENT SHALL BE BY THE TRUCK CUBIC YARD. THE ENGINEER SHALL BE NOTIFIED OF UNSUITABLE MATERIAL AND GIVEN THE OPPORTUNITY TO INSPECT IT PRIOR TO ITS REMOVAL FROM THE SITE.
 - CONTRACTOR SHALL CONDUCT THE EXCAVATION IN AN ORDERLY FASHION AND WITHOUT DELAYS BETWEEN ACTIVITIES.
 - CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL UTILITIES PRIOR TO EXCAVATION.



- FILL**
- CLEAN FILL MATERIAL SHALL BE BROUGHT TO THE SITE AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE BERMS AND CONTAINMENT AREAS.
 - CLEAN FILL SHALL BE DEFINED AS FILL FREE FROM ROOTS, RUBBLE AND OBJECTS GREATER THAN 3 INCHES IN DIAMETER OR 6 INCHES IN LENGTH.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE SOURCE OF THE CLEAN FILL AND SHALL PROVIDE THE ENGINEER WITH A REPRESENTATIVE SAMPLE IF REQUESTED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LABORATORY TESTING REQUIRED FOR THE OBTAINING OF FIELD DENSITIES AND MOISTURE CONTENT.
 - FILL SHALL BE PLACED IN LIFTS NO GREATER THAN 12 INCHES LOOSE AND SHALL BE COMPACTED AS APPROPRIATE.
 - FILL PLACED IN THE BERMS AND CONTAINMENT AREAS SHALL BE COMPACTED TO 95% DENSITY. FILL PLACED UNDER CONCRETE OR OTHER PAVING SHALL BE COMPACTED TO 98% DENSITY.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DENSITY TESTING.
 - MATERIAL NOT PROPERLY COMPACTED SHALL BE RECOMPACTED UNTIL THE SPECIFIED DENSITY IS ACHIEVED OR REMOVED AND REPLACED WITH SUITABLE MATERIAL AT THE ENGINEER'S DISCRETION.
- TRENCHING**
- TRENCHING FOR THE WATER LINE AND ELECTRICAL CONDUIT SHALL BE PERFORMED AT THE LOCATION SHOWN ON THE PLANS.
 - TRENCHES WILL BE EXCAVATED WITH A BACKHOE OR OTHER DEVICE TO A WIDTH OF 12 INCHES AND A DEPTH OF 24 INCHES.
 - PIPE SHALL BE PLACED NEATLY IN THE BOTTOM OF THE TRENCH AND THE FIRST LIFT OF FILL PLACED AROUND THE PIPE AND IN THE BOTTOM OF THE TRENCH BY HAND.
 - THE FILL SHALL BE COMPACTED AS DESCRIBED ABOVE.
- MASONRY/CONCRETE**
- ALL CONCRETE USED IN THE CONSTRUCTION SHALL BE AT A MINIMUM 3,000 PSI WITH A 3 INCH SLUMP. FIBERMESH CONCRETE MAY BE USED IN LIEU OF WIRE FABRIC REINFORCING.
 - CONCRETE SHALL BE PLACED IN ACCORDANCE WITH THE LATEST FDOT STANDARDS & INDEX AND THE LATEST GUIDANCE FROM ACI.
 - CONCRETE SHALL BE PLACED IN A NEAT AND ORDERLY FASHION AND SHALL BE BROOM FINISHED UNLESS OTHERWISE SPECIFIED.
 - THE VERTICAL WALLS SHOWN ON THIS PROJECT SHALL BE CONSTRUCTED OF 8x8x16 INCH CONCRETE BLOCK. THE CELLS OF THE BLOCK WILL BE FILLED WITH CONCRETE AND EVERY OTHER CELL OF THE WALL SHALL HAVE A #5 REBAR PLACED VERTICALLY AND CENTERED IN THE CELL.
- PLUMBING**
- ALL PIPE USED ON THIS PROJECT SHALL BE A MINIMUM OF SCHEDULE 40 WITH SOLVENT WELD JOINTS.
 - PIPE SHALL BE PLACED IN THE CENTER OF THE TRENCH.
 - ALL PIPING SHALL BE PRESSURE TESTED TO A MINIMUM OF 100 PSI PRIOR TO BACKFILLING.
- ELECTRICAL**
- ALL ELECTRICAL WORK ON THIS PROJECT SHALL COMPLY WITH THE APPLICABLE STANDARDS OF THE NATIONAL ELECTRICAL CODE AND THE LOCAL CODES.
 - SERVICES, EQUIPMENT, AND CONDUCTORS SHALL BE SIZED APPROPRIATELY TO HANDLE THE ANTICIPATED LOADS PLUS 25%.



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GREENLAND ROAD BATCH PLANT INDUSTRIAL WASTEWATER SYSTEM

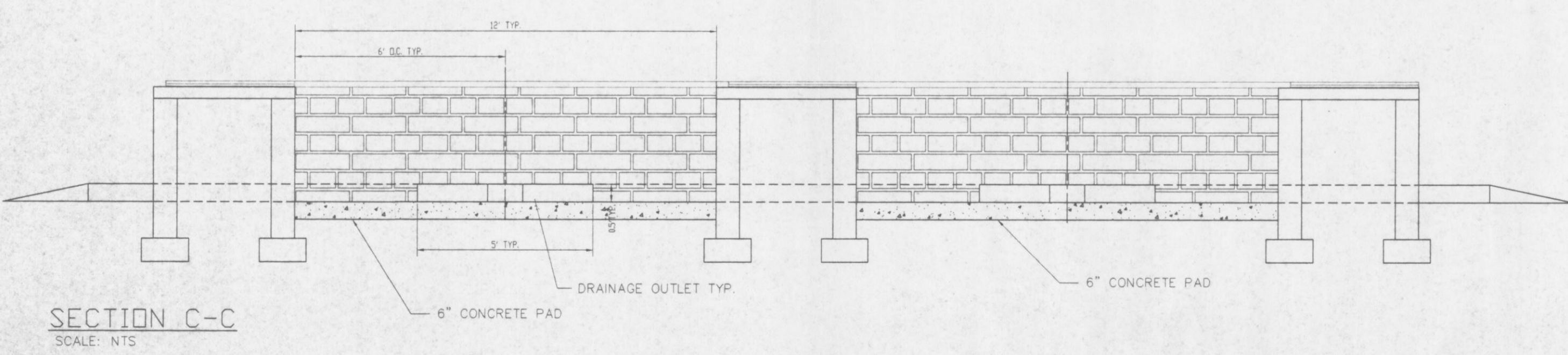
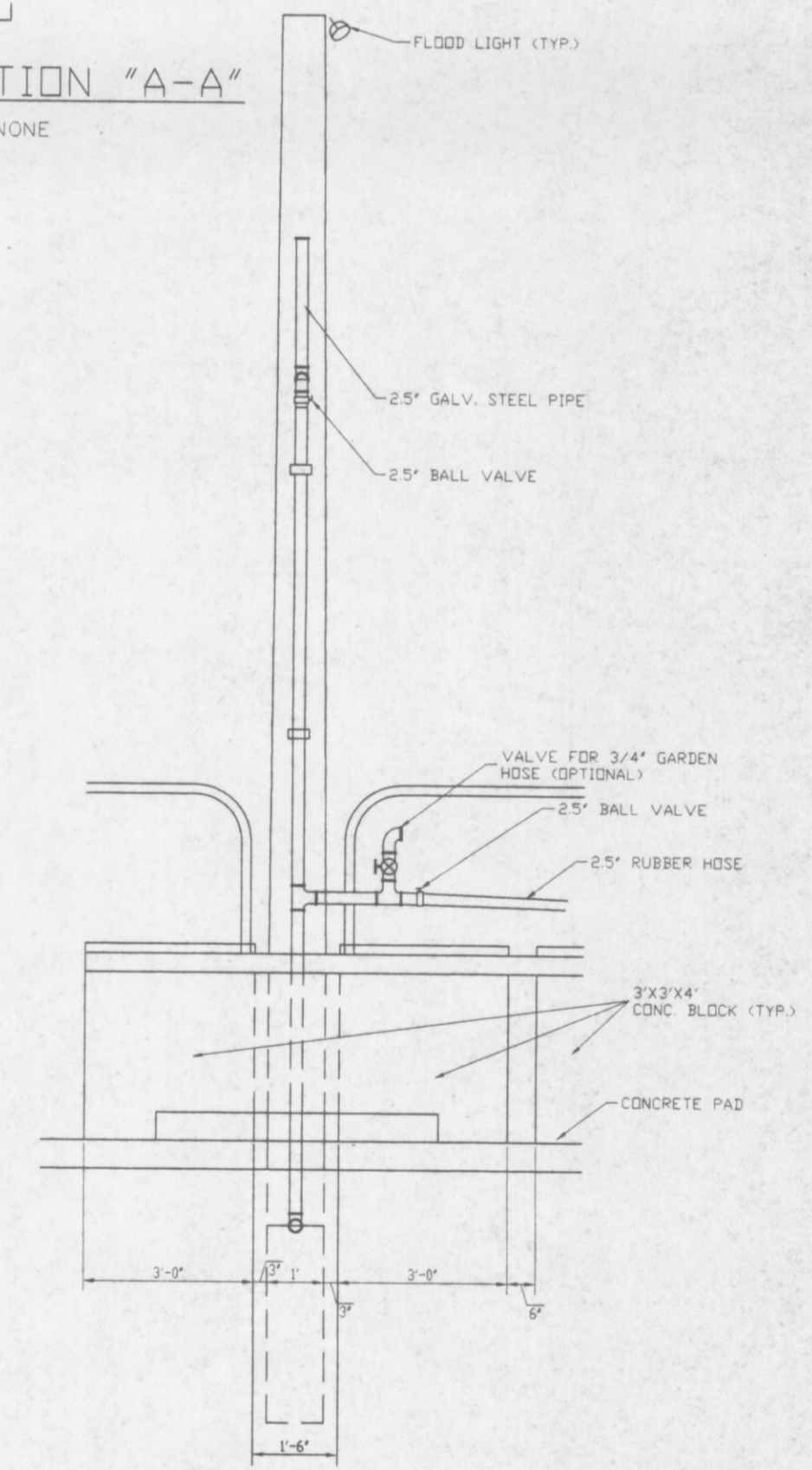
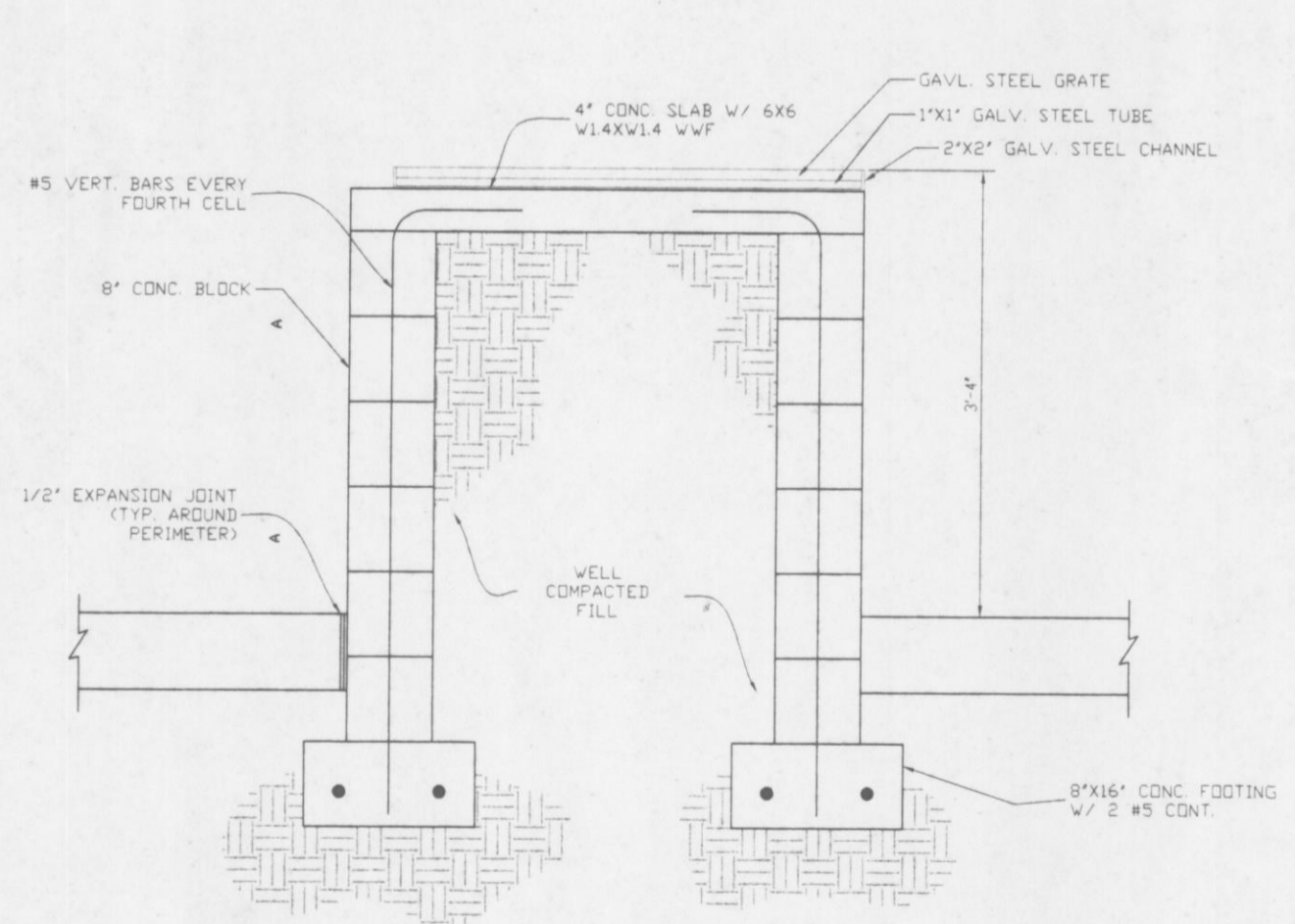
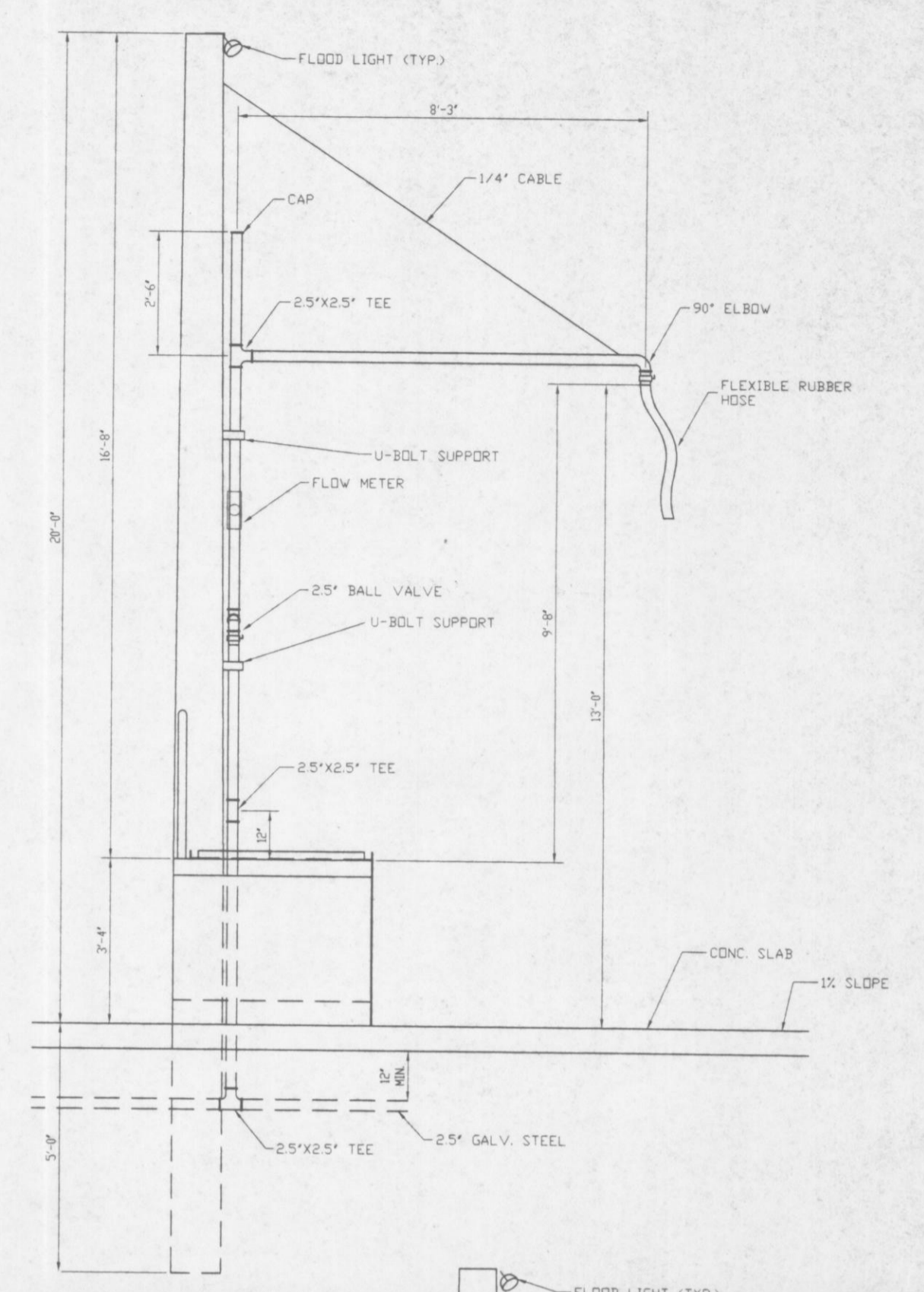
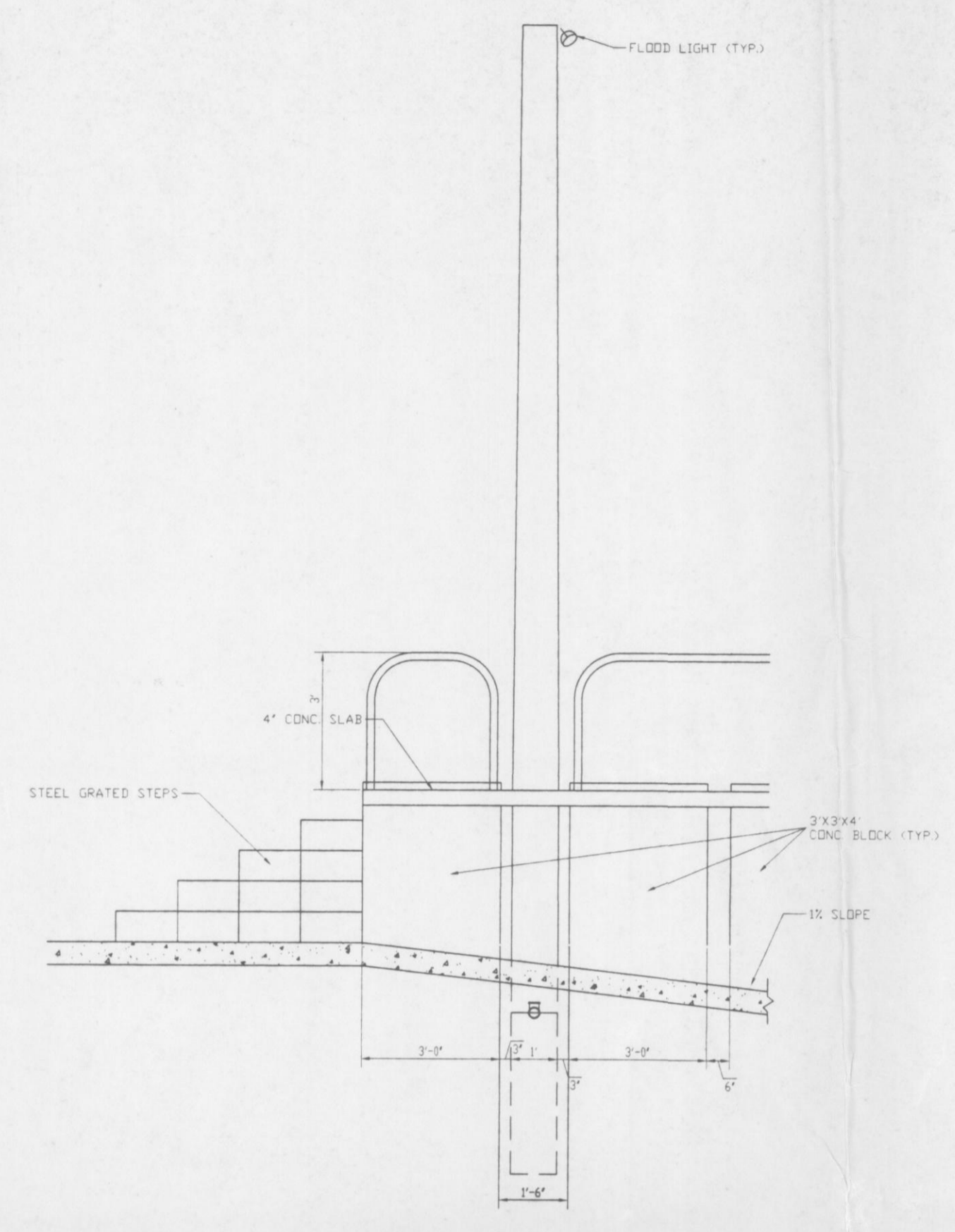
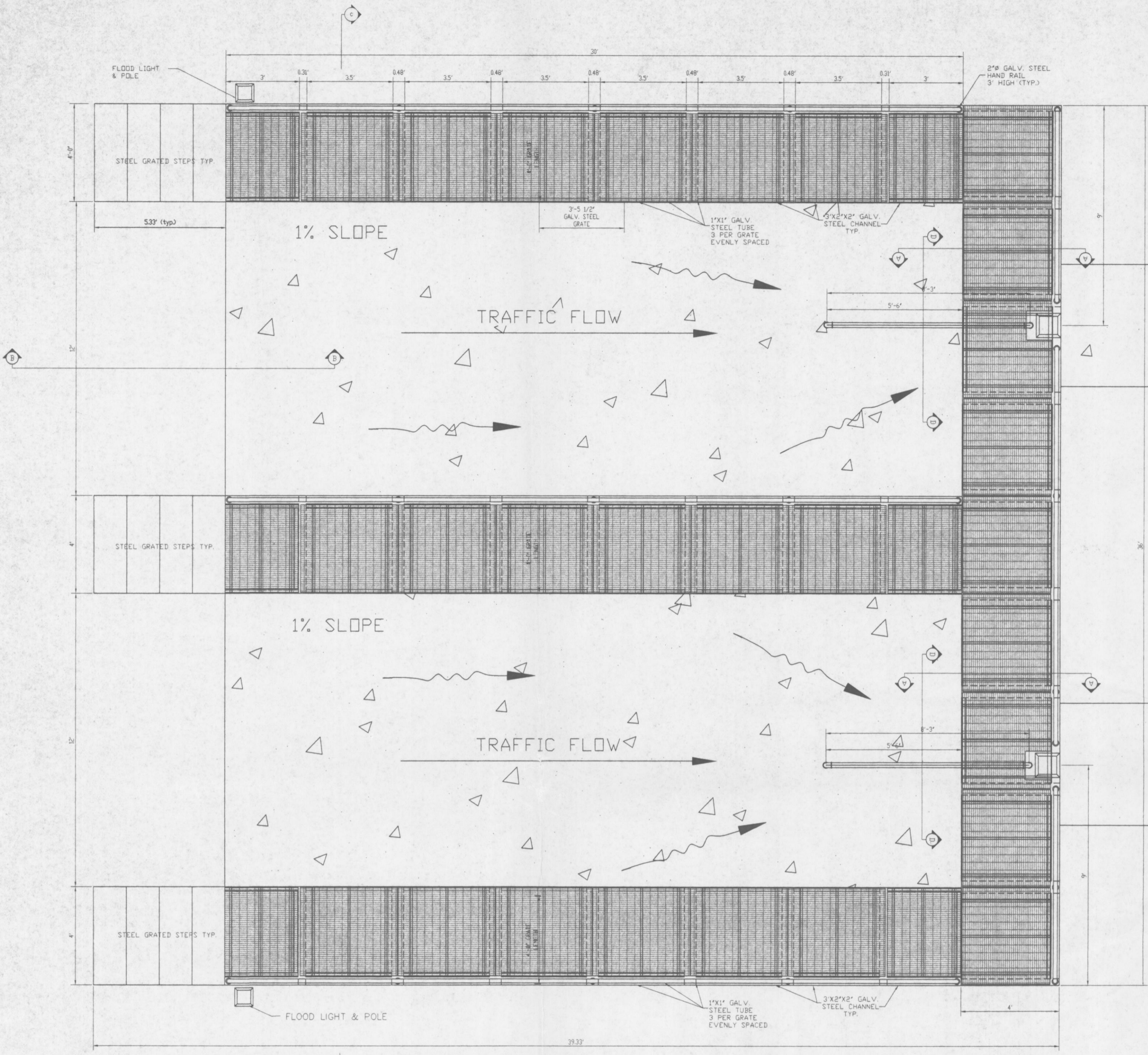
CONSTRUCTION DETAILS AND NOTES

10/21/98

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 928 NW 15th Avenue, Suite 1
 Gainesville, FL 32601
 PHONE: (352) 371-4333
 FAX: (352) 371-0020

PROJECT NO. _____
 PROJECT MGR. _____
 DATE: MARCH 1998
 SHEET: 4 OF 6
 DRAWN: _____ DESIGNED: _____
 CHECKED: _____ CHECKED: _____

No.	Date	REVISION	By	Appr.

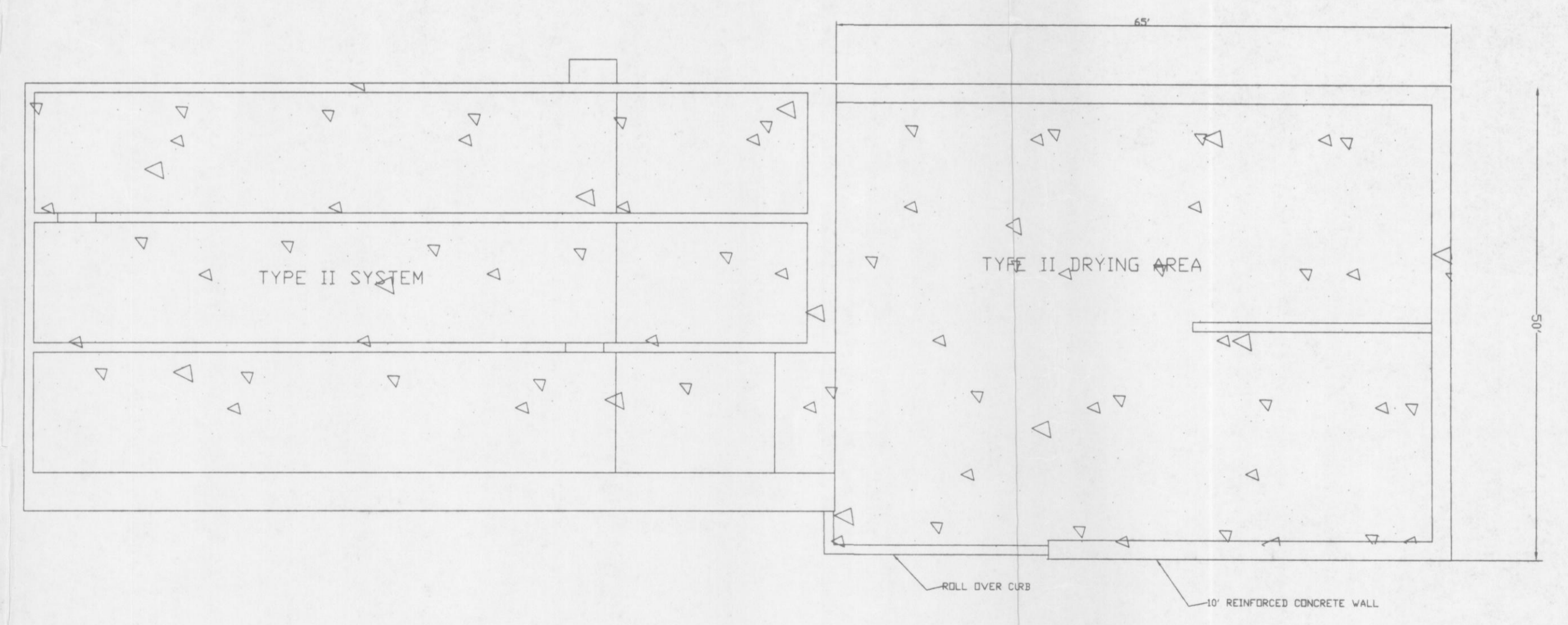
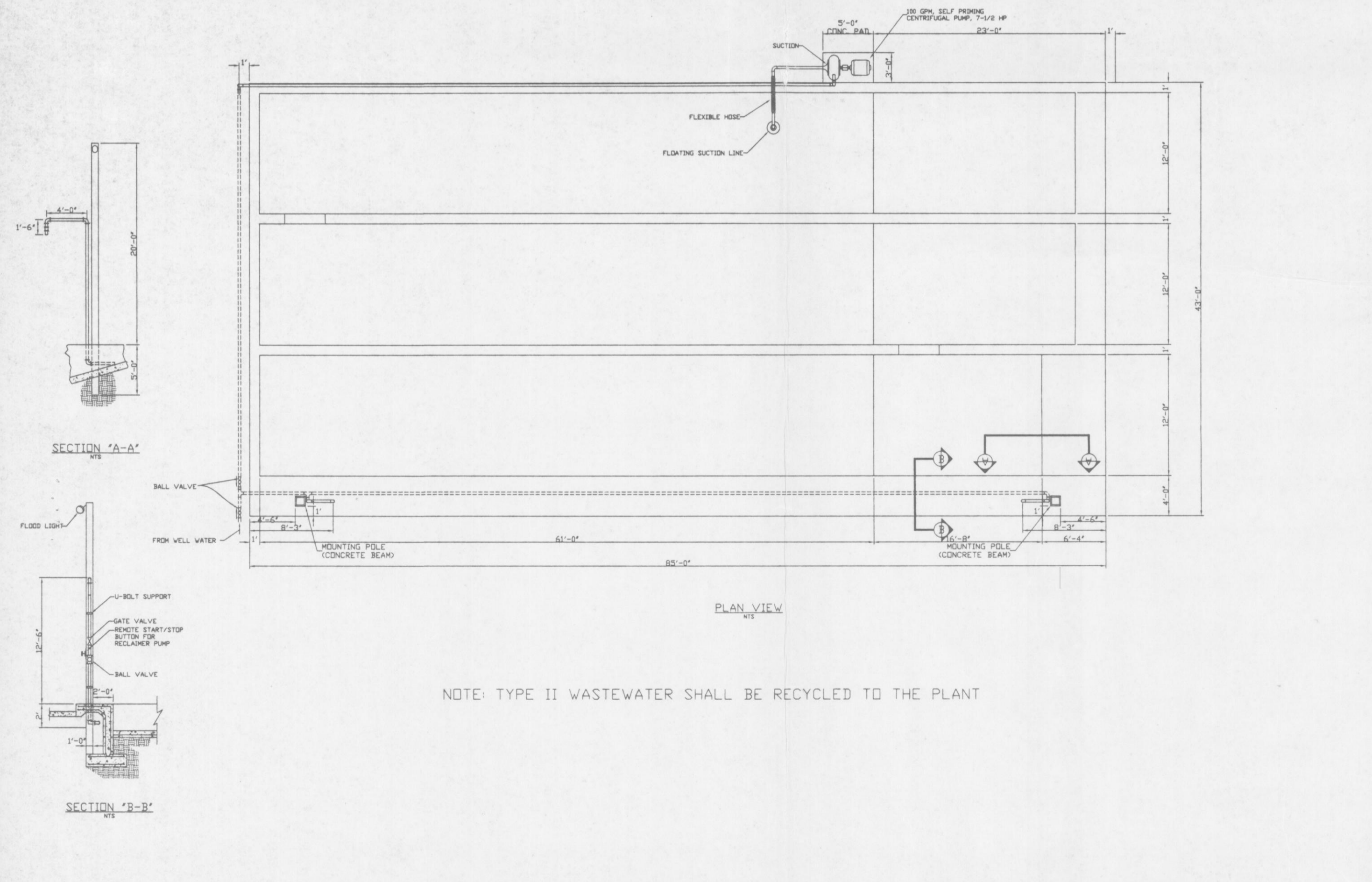
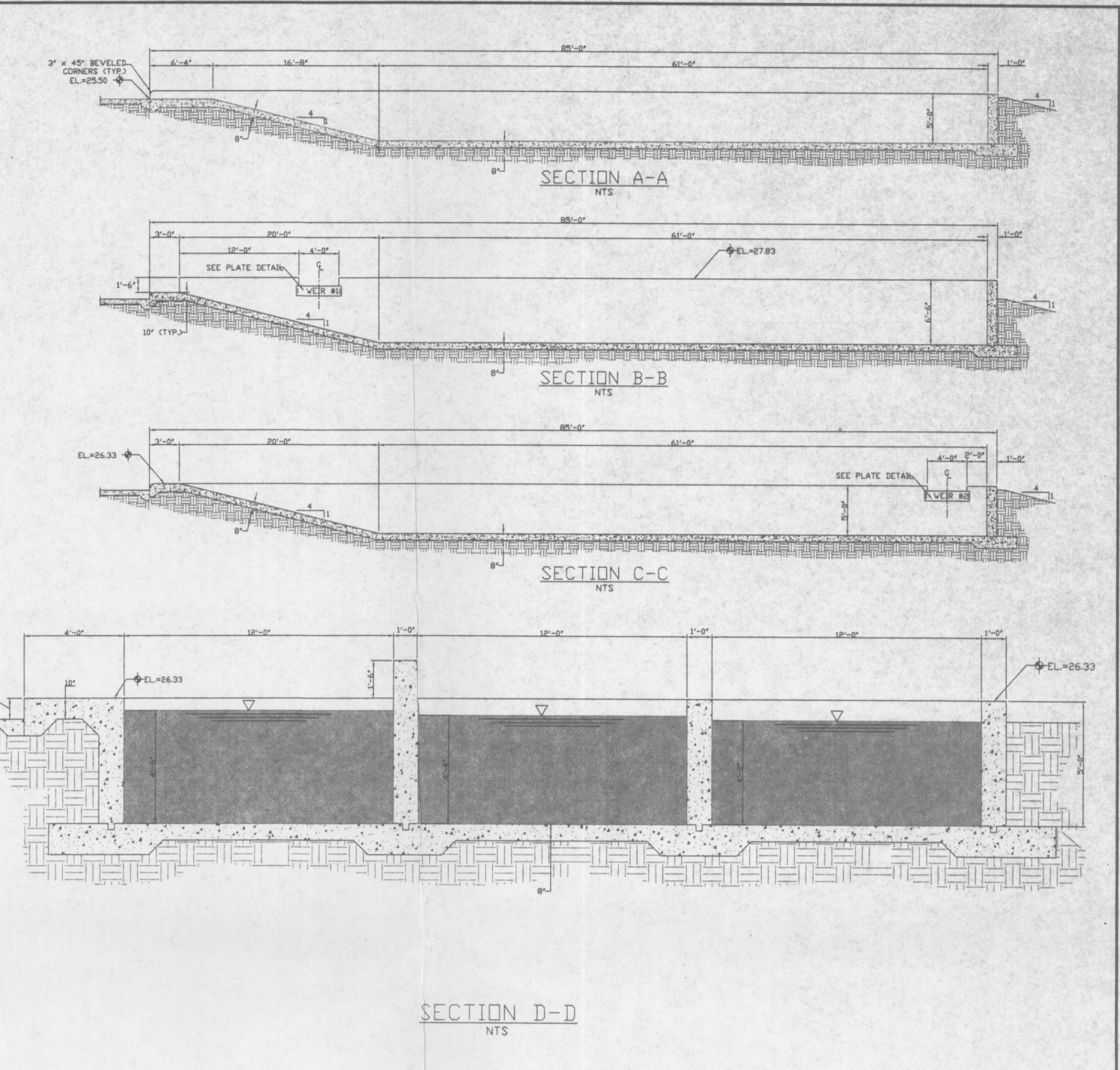
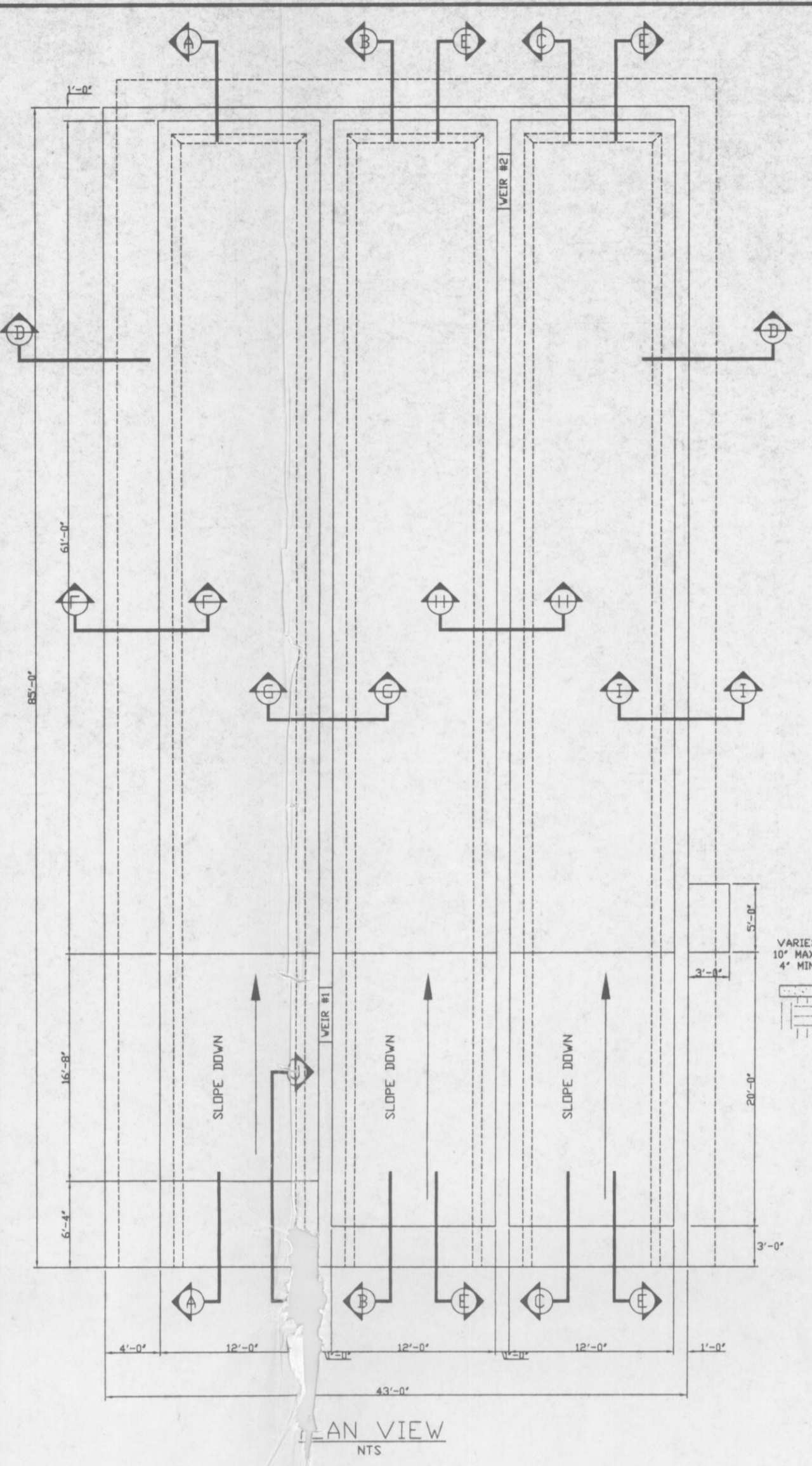
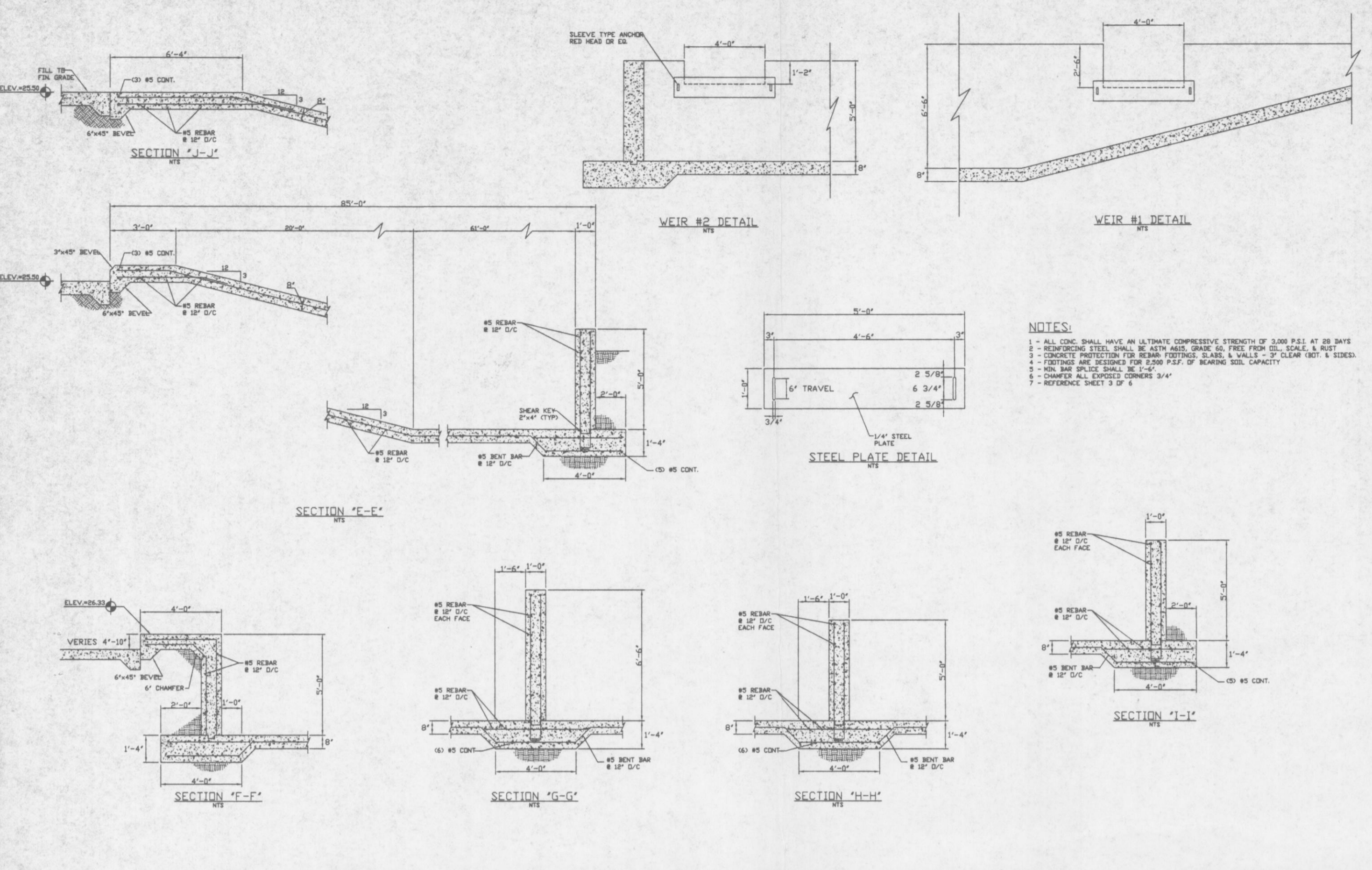


TARMAC AMERICA, INC.
GREENLAND ROAD BATCH PLANT
INDUSTRIAL WASTEWATER SYSTEM
CONSTRUCTION
DETAILS AND NOTES

Creative Environmental Solutions, Inc.
928 NW 16th Avenue, Suite 1
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PROJECT NO. 94002-4-97
PROJECT MGR.
DATE: JULY 1998
SHEET: 5 OF 6

Handwritten signature and date: 10/21/98



TARMAC AMERICA, INC.
GREENLAND ROAD BATCH PLANT
INDUSTRIAL WASTEWATER SYSTEM
**TYPE II WASTEWATER
AREA AND DETAILS**

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PROJECT NO.	
PROJECT MGR.	
DATE	MARCH 1998
SHEET	6
OF	6

No.	Date	REVISION	By	Appr.