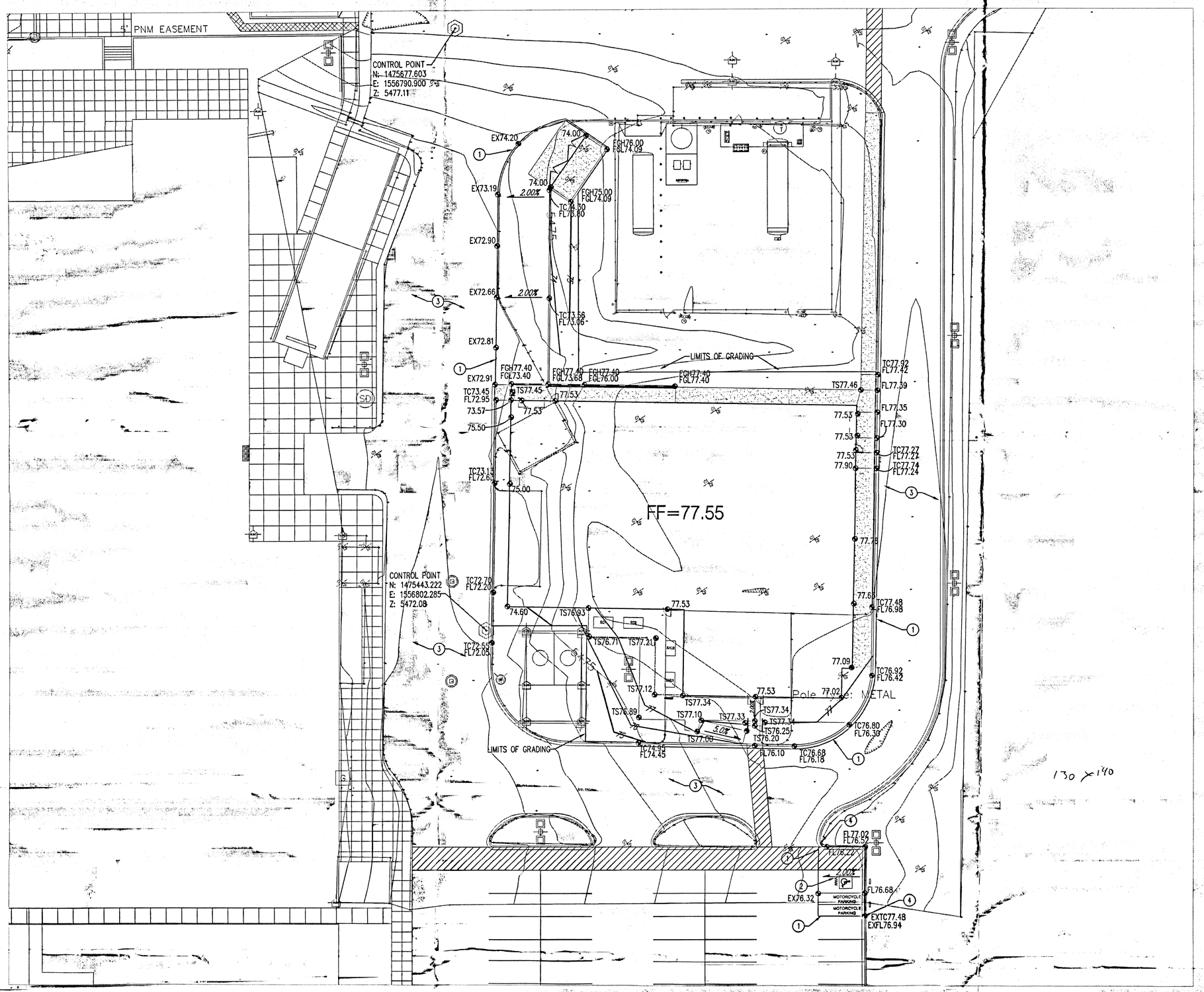
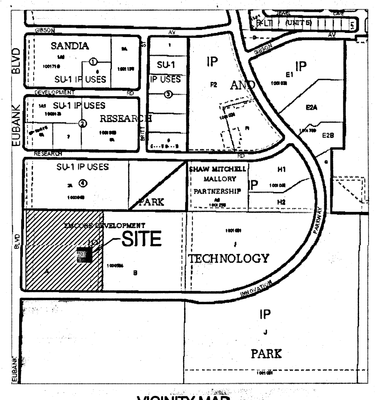
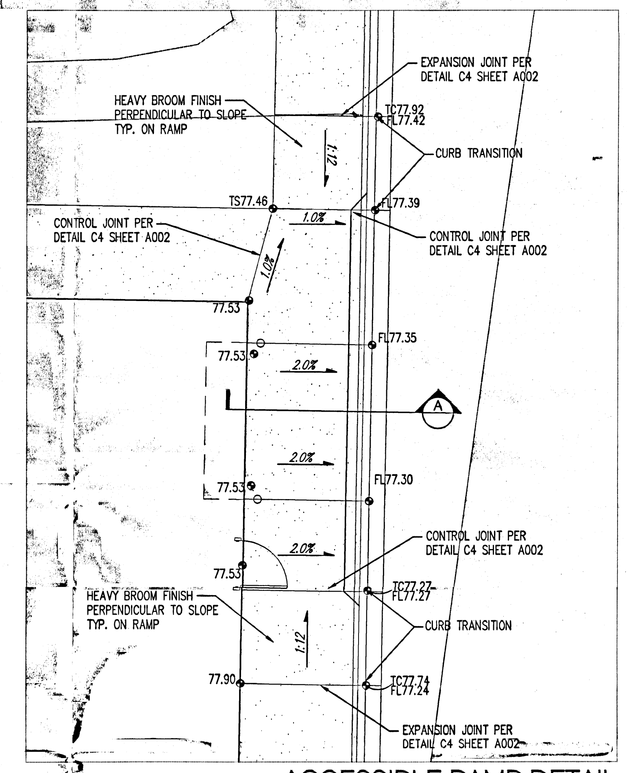




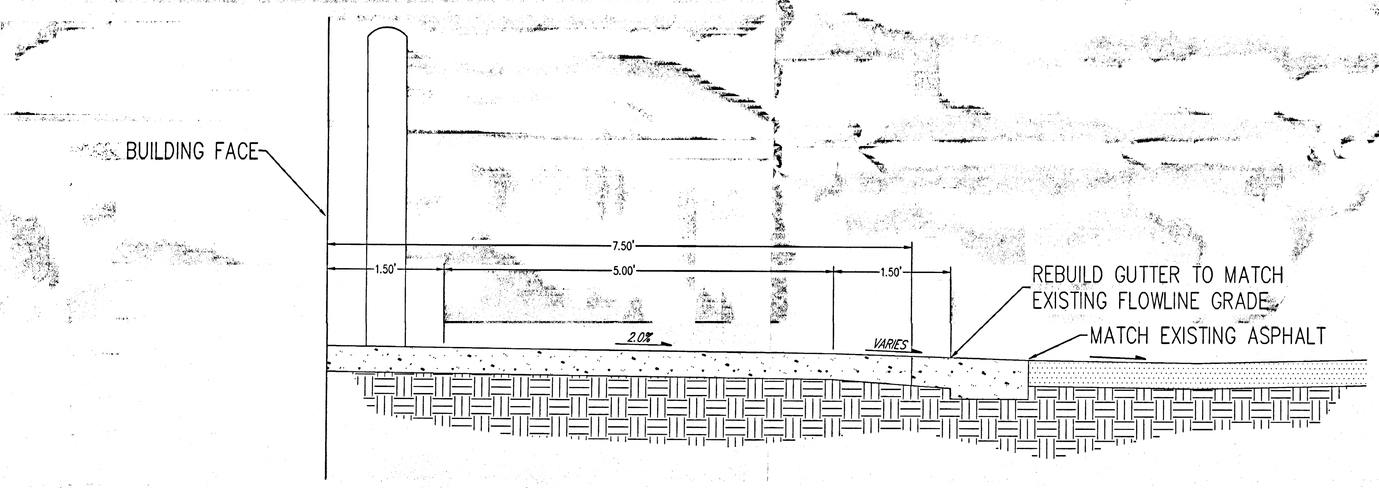
VICINITY MAP
ZONE ATLAS MAP M-21

GRADING NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.
7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.
9. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.
10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.



ACCESSIBLE RAMP DETAIL
SCALE: 1"=5'



A SIDEWALK SECTION
N.T.S

DRAINAGE MANAGEMENT PLAN

I. INTRODUCTION
The purpose of this submittal is to present a Drainage Management Plan for a proposed additional storage building at the Emcore facility property. The project will include a 12,793 gross square foot warehouse that was planned under a previous drainage management submittal titled Emcore III, by Brasher and Lorenz (stamped 11-17-00). The referenced document is M-21 (05F) in City Hydrology records.

II. SITE LOCATION
The site is located within zone atlas map # M-21-Z. In reference to the Federal Emergency Management Agency map #35001C0336 E there is not a flood zone within proximity to the site. There are no offsite flows that affect the site.

III. EXISTING HYDROLOGIC CONDITIONS
The site drains south to a detention pond that reduces discharge into a public storm drain line as described in the drainage management plan referenced above. No changes are proposed for this drainage scheme.

IV. PROPOSED HYDROLOGIC CONDITIONS
Based on the existing approved plan there is no substantial change in drainage conditions. Grading and drainage will be maintained within the scope of previously approved plan.

V. CONCLUSION
The final drainage management plan proposes concepts which have been previously developed and approved. With this submittal we are seeking Building Permit Approval.

GRADING KEYED NOTES

1. MATCH TO EXISTING ASPHALT PAVING.
2. REMOVE AND REPLACE ASPHALT PAVEMENT.
3. EXISTING ASPHALT TO REMAIN.
4. REMOVE AND REPLACE EXISTING CURB.

LEGEND

XX.XX NEW SPOT ELEVATION
TC = TOP OF CURB
FG = FINISHED GRADE
TS = TOP OF SIDEWALK
FL = FLOW LINE
FGH = FINISHED GRADE -HIGH SIDE OF WALL
FGL = FINISHED GRADE -LOW SIDE OF WALL
EX = EXISTING
RETAINING WALL

N
20 10 0 20
SCALE 1"=20'

Bohannan ▲ Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

architecture
interiors
planning
engineering
Dekker
Perich
Sabatini
7601 Jefferson NE
Suite 100
Albuquerque, NM 87109
505 761-9700
fax 761-4222
dps@dpsdesign.org

ARCHITECT

ENGINEER

BRUCE J. STIDWORTHY NEW MEXICO 14823 REGISTERED PROFESSIONAL ENGINEER
5/7/08

PROJECT

Emcore Storage Building
1600 Eubank Blvd. SE
Albuquerque, New Mexico 87123

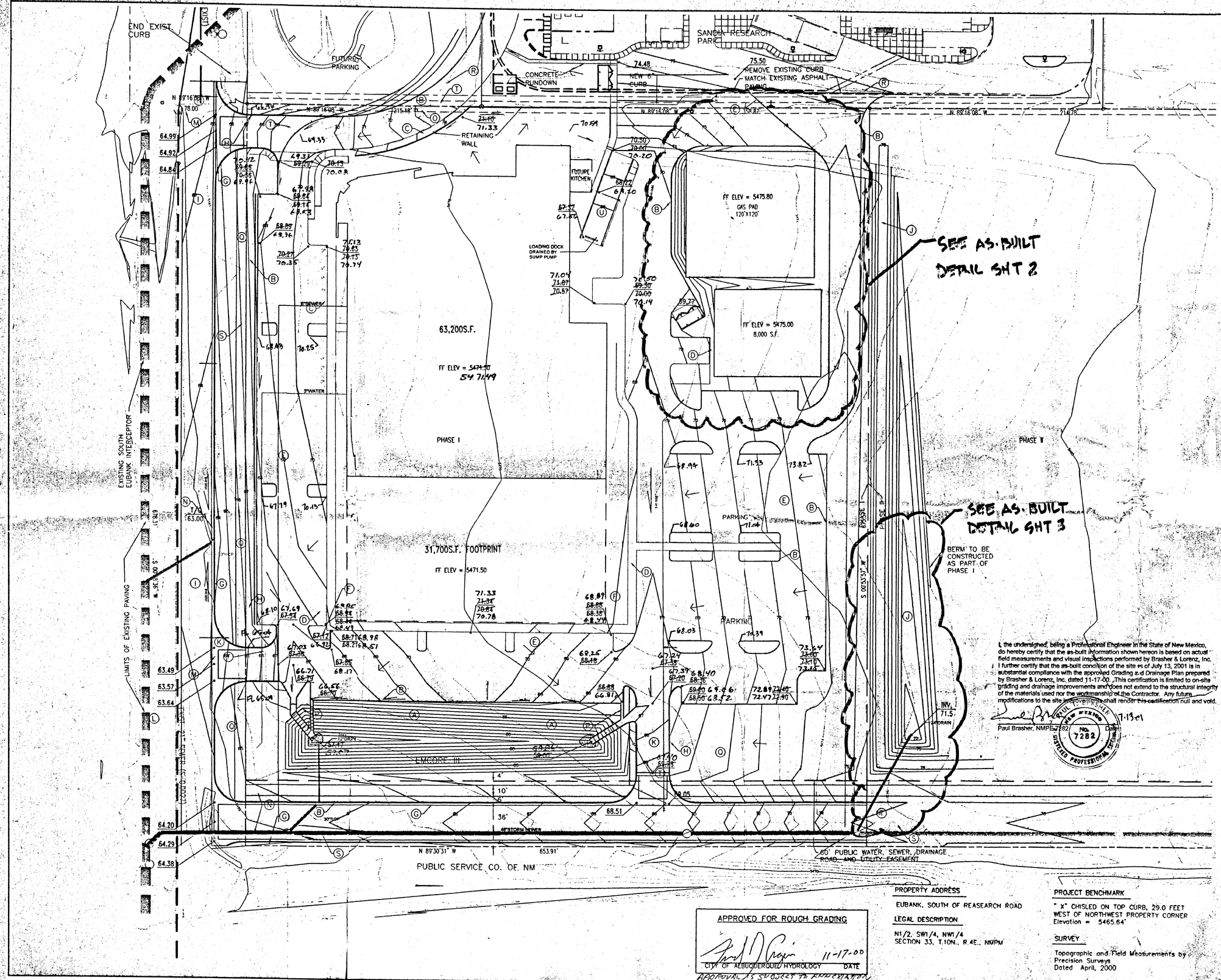
REVISIONS

DRAWN BY	JDS
REVIEWED BY	BJS
DATE	05/05/08
PROJECT NO.	.
DRAWING NAME	DRAINAGE MANAGEMENT PLAN

RECEIVED
MAY 05 2008
HYDROLOGY

SHEET NO. SECTION
C101
1 OF 1

P:\080466\cdp\general\080466dmp01.dwg
Mon, 5-May-2008 - 9:17:am, Plotted by: JSMITH



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NOV 17 2000
HYDROLOGY SECTION

Drainage Plan Notes:

1. BLI recommends that the Owner obtain a Geotechnical Evaluation of the on-site soils prior to foundation / structural design.
2. This Plan recommends positive drainage away from all structures to prohibit ponding of runoff which may cause structural settlement. Future alteration of grades adjacent to the proposed structures is not recommended.
3. Irrigation within 10 feet of any proposed structure is not recommended. Introduction of irrigation water into subsurface soils adjacent to the structure could cause settlement.
4. This Plan is prepared to establish on-site drainage and grading criteria only. BLI assumes no responsibility for subsurface analysis, foundation / structural design, or utility design.
5. Local codes may require all footings to be placed in natural undisturbed soil. If the Contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer will be required. If the contractor wishes BLI to prepare the Certification, we must be notified PRIOR to placement of the fill.
6. BLI recommends that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.
7. The property boundary shown on this Plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey. A boundary survey performed by a licensed New Mexico Registered Professional Surveyor is recommended prior to construction.

TEMPORARY EROSION CONTROL PLAN

1. The intent of the Temporary Erosion Control Plan is to limit the discharge of sediment into the public street and / or storm drainage system and to protect adjacent properties from flooding and sedimentation.
2. The contractor shall submit a Temporary Erosion Control Plan and obtain a Topsoil Disturbance Permit from Environmental Health prior to performing any earthwork-related excess runoff during construction.
3. After the initial site clearing, the temporary erosion control facilities should be constructed per the Plan to direct excess runoff and sediment the outfall locations.
4. The Temporary Erosion Control Plan consists of the placement of swales earthen erosion control berms or silt fencing along the downstream project boundaries that will direct runoff and sediment to the proposed detention ponds located at the west end of Phase II and the south end of Phase I.
5. It is the Contractor's responsibility to properly maintain all temporary erosion control facilities during the construction phase of the project.

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 220
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

PAUL T. BRASHER NEW MEXICO 7282 REGISTERED PROFESSIONAL ENGINEER
11-17-00

1 inch = 40 ft.

KEYED NOTES:

A DETENTION POND (PRIVATE)
B 6"CONCRETE HEADER CURB
C 6" CONCRETE SIDEWALK
D 8" CONCRETE SIDEWALK
E ASPHALT PAVING
F HANDICAP RAMP
G FUTURE STD. CURB AND GUTTER
H TRANSITION FROM 8" TO 6" CURB
I FUTURE EUBANK PAVING
J BERM
K 30' WIDTH ENTRANCE
L EXISTING TEMPORARY EUBANK PAVING (30' WIDTH)
M TEMPORARY ACCESS TO EXISTING PAVING
N CONSTRUCT NEW DROP INLET
O RETAINING WALL
P CONCRETE RUNDOWN
Q LANDSCAPED AREA
R FUTURE PAVED ACCESS TO ADJACENT PROPERTY
S 10' ASPHALT PATH
T OUTSIDE LIMIT OF PHASE I CONSTRUCTION
U LOADING DOCK RAMP

I, the undersigned, being a Professional Engineer in the State of New Mexico, do hereby certify that the as-built information shown hereon is based on actual field measurements and visual inspections performed by Brasher & Lorenz, Inc. I further certify that the as-built condition of the site as of July 13, 2001 is in substantial compliance with the approved Grading and Drainage Plan prepared by Brasher & Lorenz, Inc. dated 11-17-00. This certification is limited to on-site grading and drainage improvements and does not extend to the structural integrity of the materials used nor the workmanship of the Contractor. Any future modifications to the site improvements shall render this certification null and void.

Paul Brasher, NMPE 7282 — Date: 7-13-01

PAUL T. BRASHER NEW MEXICO NO. 7282 REGISTERED PROFESSIONAL ENGINEER

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JUL 30 2001
HYDROLOGY SECTION

RECEIVED
NOV 17 2000
HYDROLOGY SECTION

LEGEND

- EXISTING CONTOUR ELEVATION
- 02.5 × EXISTING SPOT ELEVATION
- —01— PROPOSED CONTOUR ELEVATION
- PROPERTY LINE
- 01.5 ⊕ PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- DRAINAGE SWALE
- DRAINAGE BASIN DIVIDE
- ② HEC 2 SECTION I.D.
- WATER BLOCK

APPROVED FOR ROUGH GRADING

11-17-00
CITY OF ALBUQUERQUE HYDROLOGY — DATE

APPROVAL IS SUBJECT TO ANNEXATION

PROPERTY ADDRESS
EUBANK, SOUTH OF REASEARCH ROAD

LEGAL DESCRIPTION
N1/2, SW1/4, NW1/4
SECTION 33, T.10N., R.4E., NMPM

PROJECT BENCHMARK
" X" CHISLED ON TOP CURB, 29.0 FEET WEST OF NORTHWEST PROPERTY CORNER
Elevation = 5465.64'

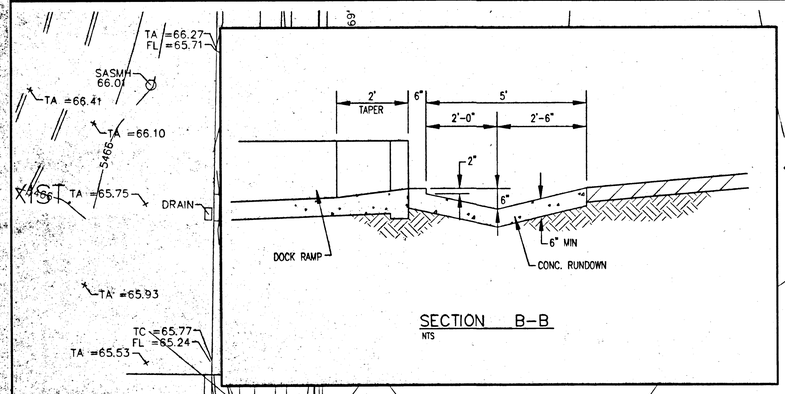
SURVEY
Topographic and Field Measurements by Precision Surveys
Dated April, 2000

EMCORE III
ALBUQUERQUE, NEW MEXICO

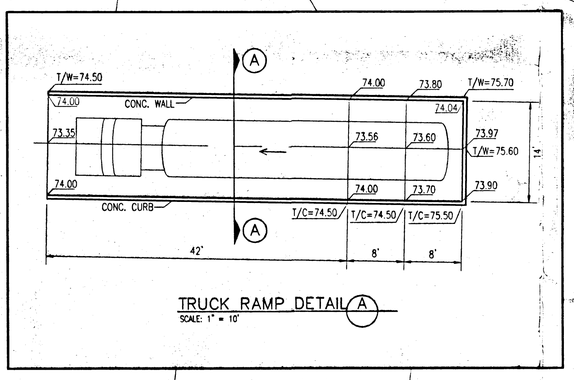
GRADING AND DRAINAGE PLAN

REVISIONS:

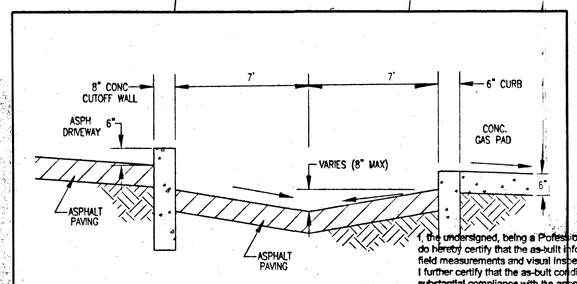
CHECKED BY:	PTB
DRAWN BY:	LAN
JOB NO:	00530
FILE NO:	EUBANK.DWG
SHEET NO:	1 OF 1



SECTION B–B
NTS



TRUCK RAMP DETAIL A
SCALE: 1" = 10'



SECTION A–A
NTS

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Paul Brasher, NMPE 7282 Date

PROJECT BENCHMARK:
"X" CHISELED ON TOP OF CURB, 29.0' WEST OF NW PROP. CORNER
ELEVATION = 5465.64' MSL

THIS PLAN SUPPLEMENTS THE GRADING AND DRAINAGE PLAN APPROVED ON 11/17/00.

1 inch = 20 ft

RECEIVED
JUL 20 2001
HYDROLOGY SECTION

EMCORE FIBER OPTICS PLAZA GRADING

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 220
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

DRAWN BY: R.M.	DATE: MARCH, 2001
CHECKED BY: P.T.B.	SHEET 2 AS-PLT
FILE: GASPAD13	

GAS PAD

FUTURE BUILDING PAD
8,000 S.F.
FINISHED FLOOR
ELEV.=5475.00

4" RIPRAP - 12" THICK

LANDSCAPING

ASPHALT PAVING

4 SPACES

8' WIDE CONC. DRIVEPAD RUNDOWN

CONC. RUNDOWN

S/W CULVERT

RETAINING WALL

FUTURE KITCHEN

LOADING DOCK DRAINED BY SUMP PUMP

FINISHED FLOOR ELEV. =5471.50

241 DRAIN INV.

FH

EMCORE ROAD

N. SIDE 60' PUBLIC ROAD, WATER, SEWER, DRAINAGE, AND UTILITIES EASEMENT

TC 75.53
FL 75.02

TC 75.43
FL 74.96

TC 76.22
FL 74.76

TC 74.94
FL 74.44

TC 74.70
FL 74.24

N 89°16'08" W 358.87'

S 00°53'57" W 675.57'

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Paul Brasher, NMPE 7282

PAUL T. BRASHER NEW MEXICO 7282 REGISTERED PROFESSIONAL ENGINEER 3-16-01

THIS PLAN SUPPLEMENTS THE GRADING AND DRAINAGE PLAN APPROVED ON 11/17/00

PROJECT BENCHMARK

"X" CHISLED ON TOP CURB, 29.0 FEET WEST OF NORTHWEST PROPERTY CORNER
ELEVATION = 5465.64 FEET

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

RECEIVED
JUL 17 2001
HYDROLOGY SECTION

EMCORE FIBER OPTICS
BERM GRADING PLAN

PAUL T. BRASHER NEW MEXICO 7282 REGISTERED PROFESSIONAL ENGINEER 3-16-01

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 220
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

DRAWN BY: R.M.	DATE: MARCH, 2001
CHECKED BY: P.T.B.	SHEET 3 OF 3
FILE: GASPAD11	

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NOV 17 2000
HYDROLOGY SECTION

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L EXISTING TEMPORARY EUBANK PAVING (10' WIDTH)
M TEMPORARY ACCESS TO EXISTING PAVING
N CONSTRUCT NEW DROP INLET
O RETAINING WALL
P CONCRETE RUNDOWN
Q LANDSCAPED AREA
R FUTURE PAVED ACCESS TO ADJACENT PROPERTY
S 10" ASPHALT PATH
T OUTSIDE LIMIT OF PHASE I CONSTRUCTION
U LOADING DOCK RAMP

LEGEND

- 6001 — EXISTING CONTOUR ELEVATION
- 02.5 × EXISTING SPOT ELEVATION
- —01— PROPOSED CONTOUR ELEVATION
- PROPERTY LINE
- 01.5 PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- DRAINAGE SWALE
- DRAINAGE BASIN DIVIDE
- (2) HEC 2 SECTION I.D.
- WATER BLOCK

1 inch = 40 ft

APPROVED FOR ROUGH GRADING

CITY OF ALBUQUERQUE, HYDROLOGY DATE

PROPERTY ADDRESS

EUBANK, SOUTH OF REASEARCH ROAD

LEGAL DESCRIPTION

N1/2, SW1/4, NW1/4
SECTION 33, T.10N., R.4E., NMPM

PROJECT BENCHMARK

" X" CHISLED ON TOP CURB, 29.0 FEET WEST OF NORTHWEST PROPERTY CORNER
Elevation = 5465.64'

SURVEY

Topographic and Field Measurements by Precision Surveys
Dated April, 2000

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 220
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

PAUL T. BRASHER
NEW MEXICO
7282
REGISTERED PROFESSIONAL ENGINEER
11-17-00

EMCORE III
ALBUQUERQUE, NEW MEXICO

GRADING AND DRAINAGE PLAN

REVISIONS:

CHECKED BY:	PTB
DRAWN BY:	LAN
JOB NO:	00530
FILE NO:	EUBANK.DWG
SHEET NO:	1 OF 1

DRAINAGE PLAN NOTES

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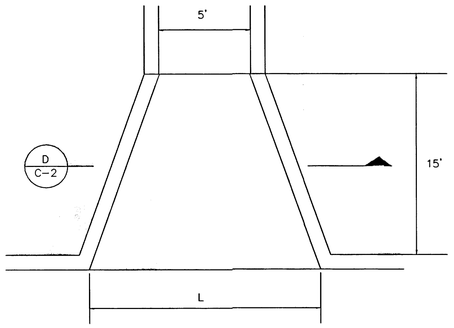
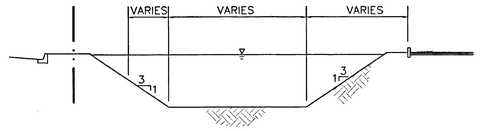
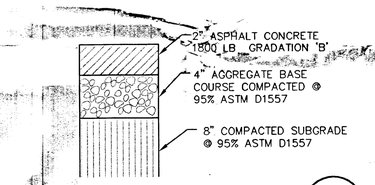


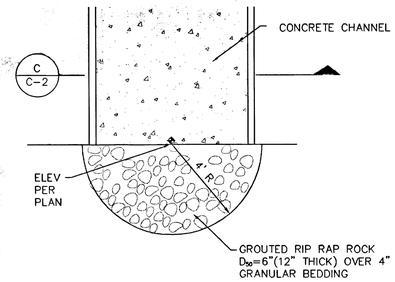
RUNDOWN INLET DETAIL — E, C-2 — NTS



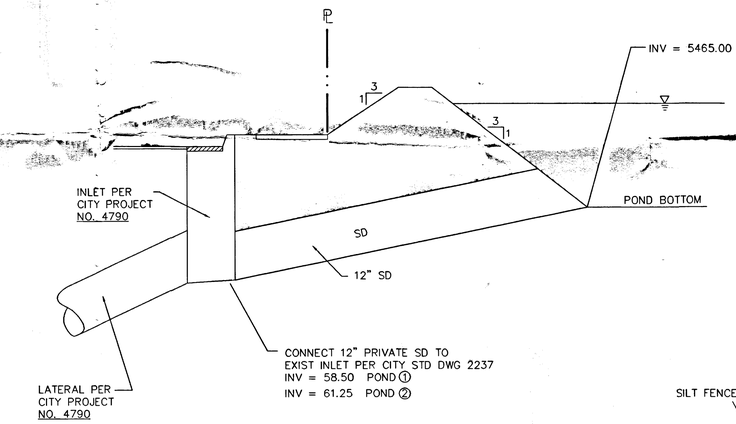
TYPICAL POND SECTION — J, C-2 — NTS



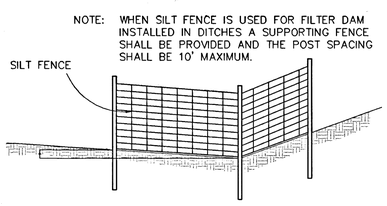
LIGHT DUTY PAVEMENT SECTION — A, C-2 — NTS



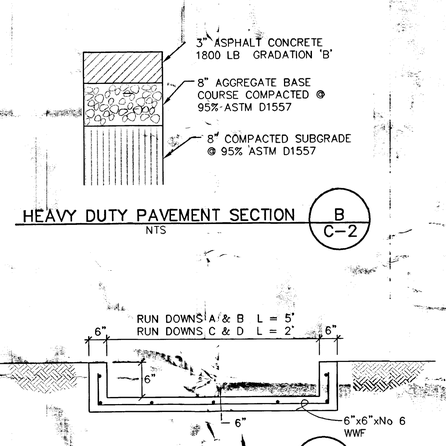
EROSION CONTROL PAD — F, C-2 — NTS



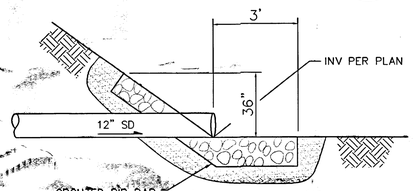
POND OUTLET DETAIL — K, C-2 — NTS



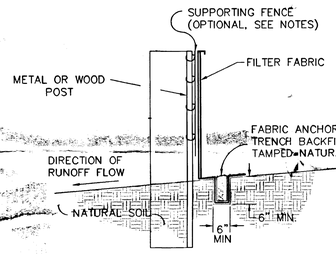
ELEVATION – FILTER DAM (SILT FENCE OPTION) — M, C-2 — NTS



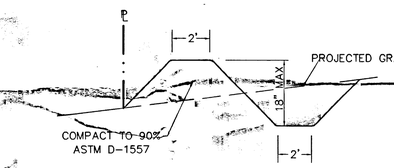
HEAVY DUTY PAVEMENT SECTION — B, C-2 — NTS



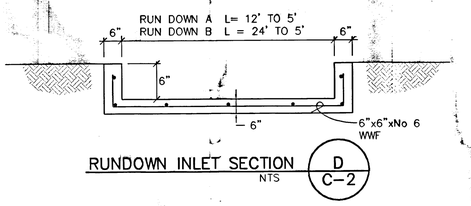
EROSION CONTROL PAD SECTION @ POND OUTLET — G, C-2 — NTS



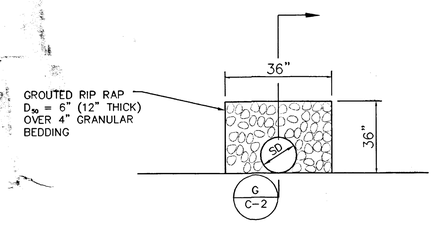
ELEVATION – FILTER DAM (SILT FENCE OPTION) — L, C-2 — NTS



TEMPORARY EROSION CONTROL BERM DETAIL — N, C-2 — NTS



RUNDOWN SECTION — C, C-2 — NTS



EROSION CONTROL PAD — H, C-2 — NTS

RUNDOWN INLET SECTION — D, C-2 — NTS

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