

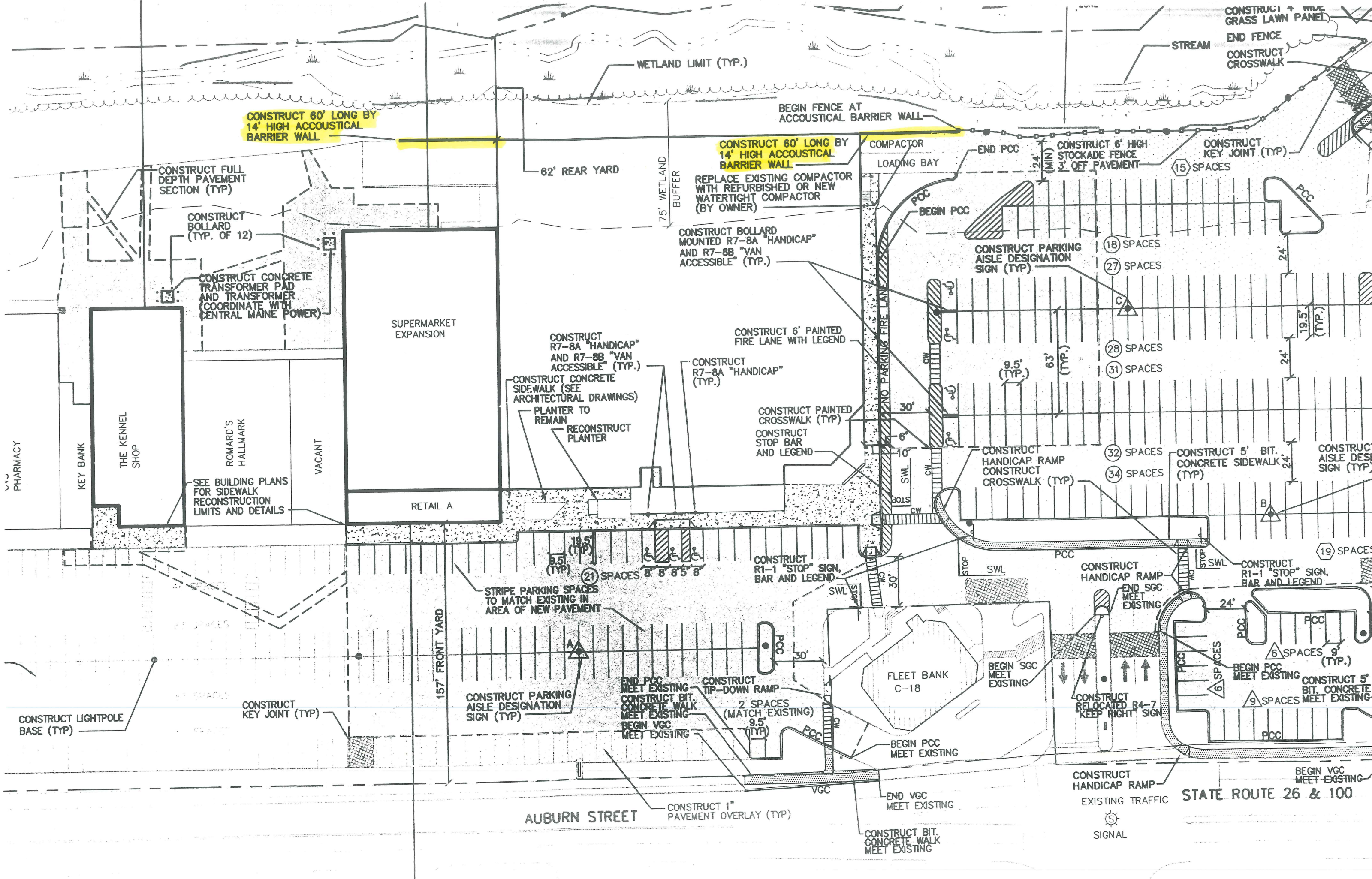
375 - C - 015

91-91 Auburn St, Portland, Maine

Shaws Northgate plaza - Expand

Shaw's Supermarkets, Inc.

P.O. Box 942, S. Easton, MA



CONSTRUCT 60' LONG BY 14' HIGH ACCOUSTICAL BARRIER WALL

CONSTRUCT 60' LONG BY 14' HIGH ACCOUSTICAL BARRIER WALL

CONSTRUCT FULL DEPTH PAVEMENT SECTION (TYP)

CONSTRUCT BOLLARD (TYP. OF 12)

CONSTRUCT CONCRETE TRANSFORMER PAD AND TRANSFORMER (COORDINATE WITH CENTRAL MAINE POWER)

SUPERMARKET EXPANSION

CONSTRUCT R7-8A "HANDICAP" AND R7-8B "VAN ACCESSIBLE" (TYP.)

CONSTRUCT BOLLARD MOUNTED R7-8A "HANDICAP" AND R7-8B "VAN ACCESSIBLE" (TYP.)

CONSTRUCT 6' PAINTED FIRE LANE WITH LEGEND

CONSTRUCT R7-8A "HANDICAP" (TYP.)

CONSTRUCT CONCRETE SIDEWALK (SEE ARCHITECTURAL DRAWINGS) PLANTER TO REMAIN RECONSTRUCT PLANTER

CONSTRUCT PAINTED CROSSWALK (TYP) CONSTRUCT STOP BAR AND LEGEND

CONSTRUCT PARKING AISLE DESIGNATION SIGN (TYP)

18 SPACES

27 SPACES

28 SPACES

31 SPACES

32 SPACES

34 SPACES

CONSTRUCT 5' BIT. CONCRETE SIDEWALK (TYP)

CONSTRUCT AISLE DESIGN SIGN (TYP)

PHARMACY

KEY BANK

THE KENNEL SHOP

ROMARD'S HALLMARK

VACANT

SEE BUILDING PLANS FOR SIDEWALK RECONSTRUCTION LIMITS AND DETAILS

RETAIL A

21 SPACES 8' 8' 8' 5' 8'

STRIPE PARKING SPACES TO MATCH EXISTING IN AREA OF NEW PAVEMENT

CONSTRUCT R1-1 "STOP" SIGN, BAR AND LEGEND

CONSTRUCT HANDICAP RAMP

CONSTRUCT R1-1 "STOP" SIGN, BAR AND LEGEND

157' FRONT YARD

CONSTRUCT PARKING AISLE DESIGNATION SIGN (TYP)

END PCC MEET EXISTING CONSTRUCT BIT. CONCRETE WALK MEET EXISTING BEGIN VGC MEET EXISTING

CONSTRUCT TIP-DOWN RAMP 2 SPACES (MATCH EXISTING) 9.5' (TYP)

BEGIN PCC MEET EXISTING

CONSTRUCT HANDICAP RAMP

CONSTRUCT 5' BIT. CONCRETE SIDEWALK (TYP)

CONSTRUCT 5' BIT. CONCRETE SIDEWALK (TYP)

CONSTRUCT LIGHTPOLE BASE (TYP)

CONSTRUCT KEY JOINT (TYP)

AUBURN STREET

CONSTRUCT 1" PAVEMENT OVERLAY (TYP)

END VGC MEET EXISTING

CONSTRUCT BIT. CONCRETE WALK MEET EXISTING

CONSTRUCT HANDICAP RAMP EXISTING TRAFFIC

STATE ROUTE 26 & 100

BEGIN VGC MEET EXISTING

SIGNAL

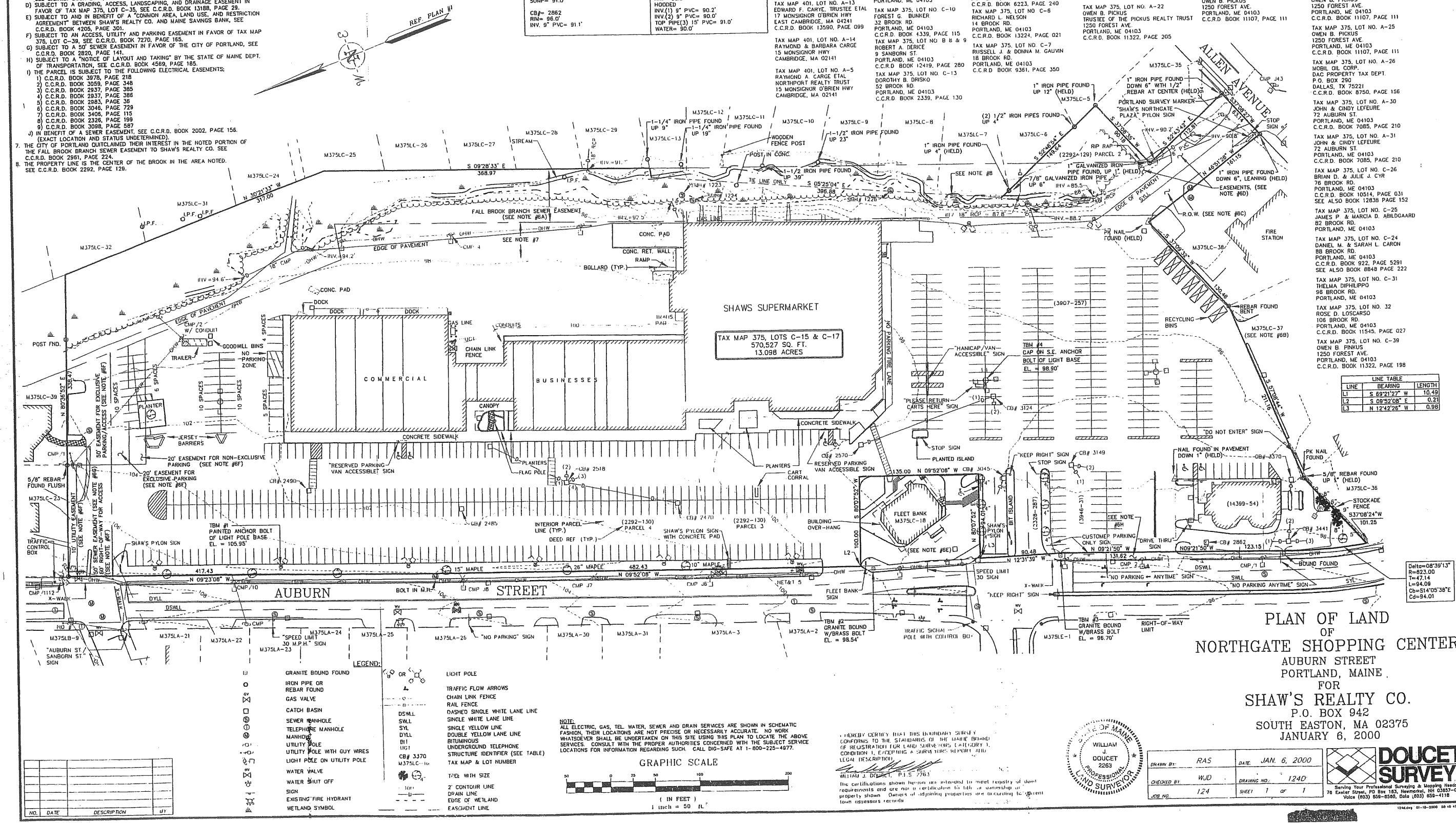
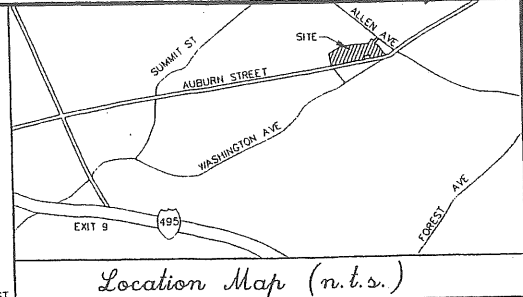
- NOTES:**
1. REFERENCE: TAX MAP 375, LOT C-15 & C-17
 2. OWNER OF RECORD: SHAW'S REALTY CO. P.O. BOX 942 SOUTH EASTON, MA 02375 C.C.R.D. BOOK 2280, PAGE 250, C.C.R.D. BOOK 2242, PAGE 129, C.C.R.D. BOOK 2861, PAGE 224, C.C.R.D. BOOK 3946, PAGE 31, C.C.R.D. BOOK 14399, PAGE 54, C.C.R.D. BOOK 3907, PAGE 257, C.C.R.D. BOOK 2228, PAGE 287
 3. FIELD SURVEY PERFORMED BY M.A.T. & R.L.L. ON 11/99 USING A SOKKIA SET 481 TOTAL STATION AND A SOKKIA B21 AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
 4. VERTICAL DATUM BASED ON ASSUMED, SHAW'S FINISHED FLOOR = 100.00' TO CONVERT TO CITY OF PORTLAND DATUM
 5. WETLANDS DELINEATED BY WEST ENVIRONMENTAL
 6. THE PREMISES ARE SUBJECT TO AND/OR IN BENEFIT OF THE FOLLOWING EASEMENTS, RESTRICTIONS, ETC.
 - A) SUBJECT TO THE FALL BROOK BRANCH SEWER EASEMENT, ACCEPTED BY ORDER OF THE PORTLAND CITY COUNCIL ON 6/15/53, SEE CITY CLERK'S RECORDS, VOLUME 71, PAGE 278
 - B) SUBJECT TO A DRAINAGE EASEMENT IN FAVOR OF TAX MAP 375, LOT C-37, SEE C.C.R.D. BOOK 2474, PAGE 184, (EXACT LOCATION UNDETERMINED)
 - C) SUBJECT TO A 25' RIGHT OF WAY IN FAVOR OF TAX MAP 375, LOT C-38, SEE C.C.R.D. BOOK 2946, PAGE 150
 - D) SUBJECT TO A DRAINAGE, ACCESS, LANDSCAPING, AND DRAINAGE EASEMENT IN FAVOR OF TAX MAP 375, LOT C-35, SEE C.C.R.D. BOOK 13188, PAGE 99
 - E) SUBJECT TO AND IN BENEFIT OF A "COMMON AREA LAND USE, AND RESTRICTION AGREEMENT BETWEEN SHAW'S REALTY CO. AND MAINE SAVINGS BANK, SEE C.C.R.D. BOOK 4205, PAGE 301
 - F) SUBJECT TO AN ACCESS, UTILITY AND PARKING EASEMENT IN FAVOR OF TAX MAP 375, LOT C-38, SEE C.C.R.D. BOOK 7270, PAGE 165
 - G) SUBJECT TO A 50' SEWER EASEMENT IN FAVOR OF THE CITY OF PORTLAND, SEE C.C.R.D. BOOK 2820, PAGE 141
 - H) SUBJECT TO A "NOTICE OF LAYOUT AND TAKING" BY THE STATE OF MAINE DEPT. OF TRANSPORTATION, SEE C.C.R.D. BOOK 4569, PAGE 185
 - I) THE PARCEL IS SUBJECT TO THE FOLLOWING ELECTRICAL EASEMENTS:
 - 1) C.C.R.D. BOOK 3978, PAGE 218
 - 2) C.C.R.D. BOOK 3059, PAGE 348
 - 3) C.C.R.D. BOOK 2937, PAGE 385
 - 4) C.C.R.D. BOOK 2937, PAGE 388
 - 5) C.C.R.D. BOOK 2983, PAGE 416
 - 6) C.C.R.D. BOOK 3048, PAGE 729
 - 7) C.C.R.D. BOOK 3408, PAGE 115
 - 8) C.C.R.D. BOOK 2328, PAGE 199
 - 9) C.C.R.D. BOOK 3088, PAGE 487
 - J) IN BENEFIT OF A SEWER EASEMENT, SEE C.C.R.D. BOOK 2002, PAGE 156. (EXACT LOCATION AND STATUS UNDETERMINED)
 7. THE CITY OF PORTLAND COUNCILMAN, THEIR INTEREST IN THE NOTED PORTION OF THE FALL BROOK BRANCH SEWER EASEMENT TO SHAW'S REALTY CO. SEE C.C.R.D. BOOK 2951, PAGE 224
 8. THE PROPERTY LINE IS THE CENTER OF THE BROOK IN THE AREA NOTED. SEE C.C.R.D. BOOK 2292, PAGE 128.

- REFERENCE PLANS:**
1. "ALLEN AVE RECONSTRUCTION PLAN AND PROFILE" (WORKING COPY) DATED NOV. 1999 BY CITY OF PORTLAND PUBLIC WORKS DEPARTMENT, ENGINEERING SECTION
 2. "PLAN OF LAND IN PORTLAND, MAINE, FOR SHAW'S REALTY CO." DATED NOV. 19, 1987 BY OWEN HASKELL. PLAN NOT RECORDED.
 3. "CITY OF PORTLAND, MAINE DEPARTMENT OF PUBLIC WORKS, FALL BROOK BRANCH SEWER NAME AVE. TO AUBURN ST., RIGHT OF WAY PLAN" BY PORTLAND ENGINEERING DEPT., APPROVED APRIL 2, 1953. ON FILE AT PORTLAND ENGINEERING DEPT.
 4. "TOP & SURVEY PLAN FOR DR. MAURICE C. HOTHEN, 1225 (REAR) AUBURN ST. PORTLAND, MAINE" DATED 3/25/85 BY WELLS ENGINEERING INC. PLAN NOT RECORDED. ON FILE AT PORTLAND ENGINEERING DEPT.
 5. "CITY OF PORTLAND, MAINE, DEPARTMENT OF PUBLIC WORKS, DRAINAGE RIGHT-OF-WAY, AUBURN & SANBORN ST. OUTLET SEWER" DATED 3/64 BY DEPT. OF PUBLIC WORKS. PLAN NOT RECORDED. ON FILE AT PORTLAND ENGINEERING DEPT.
 6. "PLAN OF PROPERTY LOCATED IN DEERING VILLAGE EXTENSION A MADE FOR E. WOODARD PAYNE" DATED NOV 5, 1982 BY CARL E. EMERY, C.C.R.D. PLAN #62-4.
 7. "PLAN OF PROPERTY LOCATED IN DEERING VILLAGE EXTENSION B MADE FOR E. WOODARD PAYNE" DATED APRIL 1984 BY CARL E. EMERY, C.C.R.D. PLAN #65-13.
 8. "DEERING VILLAGE, DEERING VILLAGE CORP. PORTLAND, ME." DATED FEB. 1941 BY NISSET & GRIFFIN, INC., ENGR'S. C.C.R.D. PLAN #27-12
 9. "STANDARD BOUNDARY SURVEY OF PEOPLES SAVINGS BANK ALLEN AVE. & AUBURN AVE., PORTLAND, ME., DATED JUNE 29, 1998 BY SEBAGO TECHNICS.

UTILITY STRUCTURE TABLE

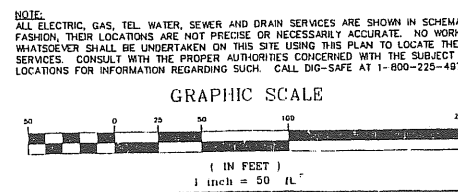
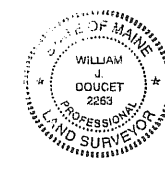
CATCH BASIN		SEWER MANHOLES	
CB# 2470 RIM= 99.4' INV. OUT 12" OD CLAY W/ TRAP= 95.6'	CB# 3045 RIM= 95.8' INV. 6" CLAY= 92.3'	SMH# 1223 RIM= 93.9' TOP OF PIPE IN= 85.5' TOP OF PIPE OUT= 85.3' INV. IN 12" AP= 85.3'	SMH# 1224 RIM= 94.4' INV. OUT 6" CLAY= 85.0' INV. OUT 6" CLAY= 84.9'
CB# 2485 RIM= 101.2' INV. IN 12" CLAY= 96.6' INV. OUT 14" CLAY W/ TRAP= 96.6'	CB# 3124 RIM= 96.1' INV. IN 6" CLAY= 91.1' COULD NOT SEE THE REST OF THE INV.	SMH# 1226 RIM= 91.9' TOP OF PIPE IN= 85.0' TOP OF PIPE OUT= 84.7'	SMH# 2026 RIM= 102.0' INV. IN 18" R.C.C.P.= 92.2' INV. OUT 18" R.C.C.P.= 92.0'
CB# 2518 RIM= 100.1' TOP OF PIPE (1) W/ GREASE TRAP= 95.2' INV. IN 6" CLAY= 95.5' INV. IN 4" CLAY= 95.7' INV. IN 4" FROM 2470= 95.0'	CB# 3149 RIM= 94.8' INV. IN 6" CLAY= 92.8' INV. IN 6" CLAY= 92.4'	TAX MAP 401, LOT NO. A-13 EDWARD F. CARVE, TRUSTEE ET AL 17 MONSIGNOR O'BRIEN HWY EAST CAMBRIDGE, MA 02421 C.C.R.D. BOOK 13590, PAGE 099	TAX MAP 375, LOT NO. C-10 FOREST G. BUNKER 42 BROOK RD. PORTLAND, ME 04103 C.C.R.D. BOOK 1339, PAGE 115 C.C.R.D. BOOK 12419, PAGE 280 C.C.R.D. BOOK 2339, PAGE 130
CB# 2570 RIM= 98.9' INV. IN 6" CLAY= 93.1' INV. OUT 8" CLAY= 93.1' SUMP= 91.0'	CB# 3441 RIM= 95.3' HOODED INV. IN 9" PVC= 90.2' INV. IN 9" PVC= 90.0' TOP PIPE (3) 15" PVC= 91.0' WATER= 90.0'	TAX MAP 401, LOT NO. A-14 RAYMOND & BARBARA CARGE 15 MONSIGNOR HWY CAMBRIDGE, MA 02141	TAX MAP 375, LOT NO. C-7 DOROTHY B. DRISKO 52 BROOK RD. PORTLAND, ME 04103 C.C.R.D. BOOK 2339, PAGE 130
CB# 2862 RIM= 96.0' INV. 9" PVC= 91.1'		TAX MAP 401, LOT NO. A-5 RAYMOND A. CARGE ET AL NORTHPORT REALTY TRUST 15 MONSIGNOR O'BRIEN HWY CAMBRIDGE, MA 02141	

- ABUTTER'S TABLE**
- | | | | |
|--|--|--|--|
| TAX MAP 375, LOT NO. C-35
NORTH GATE PLAZA ASSOC. LLC
400 ALLEN AVE
PORTLAND, ME 04103
C.C.R.D. BOOK 13197, PAGE 116 | TAX MAP 375, LOT NO. C-11
ANNE B. SIEMHART
36 BROOK RD
PORTLAND, ME 04103
C.C.R.D. BOOK 12372, PAGE 133 | TAX MAP 375, LOT NO. C-12
LAWRENCE J. & LAURA A. ROBINSON
46 BROOK RD
PORTLAND, ME 04103
C.C.R.D. BOOK 9065, PAGE 217 | TAX MAP 375, LOT NO. C-8
HELENE ANDERSON
431 SUMMIT ST.
PORTLAND, ME 04103
C.C.R.D. BOOK 12515, PAGE 086 |
| TAX MAP 375, LOT NO. C-36
MOBIL OIL CORP.
PROPERTY TAX DIV
P.O. BOX 280
DALLAS, TX 75225
C.C.R.D. BOOK 1773, PAGE 29 | TAX MAP 375, LOT NO. C-29
GREGORY D. & ANN M. O'DONNELL
60 BROOK RD
PORTLAND, ME 04103
C.C.R.D. BOOK 8181, PAGE 341 | TAX MAP 375, LOT NO. C-28
IRVING N. & NECIA ANZMANN
64 BROOK RD
PORTLAND, ME 04103
C.C.R.D. BOOK 2765, PAGE 84 | TAX MAP 375, LOT NO. C-9
SUZANNE RIDEOUT
26 BROOK RD
PORTLAND, ME 04103
C.C.R.D. BOOK 2821, PAGE 207 |
| TAX MAP 375, LOT NO. A-2
BARBARA A. ESPOSITO
153 CALEB ST.
PORTLAND, ME 04102
C.C.R.D. BOOK 12202, PAGE 311 | TAX MAP 375, LOT NO. A-21
OWEN B. PICKUS
TRUSTEE OF THE PICKUS REALTY TRUST
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11322, PAGE 205 | TAX MAP 375, LOT NO. A-22
OWEN B. PICKUS
TRUSTEE OF THE PICKUS REALTY TRUST
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11107, PAGE 111 | TAX MAP 375, LOT NO. A-23
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11107, PAGE 111 |
| TAX MAP 375, LOT NO. A-3
MARION S. CHRISITY
1478 WASHINGTON AVE.
PORTLAND, ME 04103 | TAX MAP 375, LOT NO. A-25
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11107, PAGE 111 | TAX MAP 375, LOT NO. A-26
MOBIL OIL CORP.
DAC PROPERTY TAX DEPT.
P.O. BOX 290
DALLAS, TX 75221
C.C.R.D. BOOK 8750, PAGE 156 | TAX MAP 375, LOT NO. A-30
JOHN & CINDY LEFEURE
72 AUBURN ST.
PORTLAND, ME 04103
C.C.R.D. BOOK 7085, PAGE 210 |
| TAX MAP 375, LOT NO. C-10
FOREST G. BUNKER
42 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 1339, PAGE 115
C.C.R.D. BOOK 12419, PAGE 280
C.C.R.D. BOOK 2339, PAGE 130 | TAX MAP 375, LOT NO. C-7
DOROTHY B. DRISKO
52 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 2339, PAGE 130 | TAX MAP 375, LOT NO. C-25
JAMES P. & MARCIA D. ABILDGAARD
82 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 11545, PAGE 027 | TAX MAP 375, LOT NO. C-24
DANIEL M. & SARAH L. CARON
88 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 922, PAGE 5291
SEE ALSO BOOK 8848 PAGE 222 |
| TAX MAP 375, LOT NO. A-5
RAYMOND A. CARGE ET AL
NORTHPORT REALTY TRUST
15 MONSIGNOR O'BRIEN HWY
CAMBRIDGE, MA 02141 | TAX MAP 375, LOT NO. C-31
THELMA DIPIHELIPPO
98 BROOK RD.
PORTLAND, ME 04103 | TAX MAP 375, LOT NO. C-39
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11322, PAGE 198 | TAX MAP 375, LOT NO. C-32
ROSE D. LOSCARSO
108 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 11545, PAGE 027 |



PLAN OF LAND OF NORTHGATE SHOPPING CENTER
AUBURN STREET
PORTLAND, MAINE
FOR
SHAW'S REALTY CO.
P.O. BOX 942
SOUTH EASTON, MA 02375
JANUARY 6, 2000

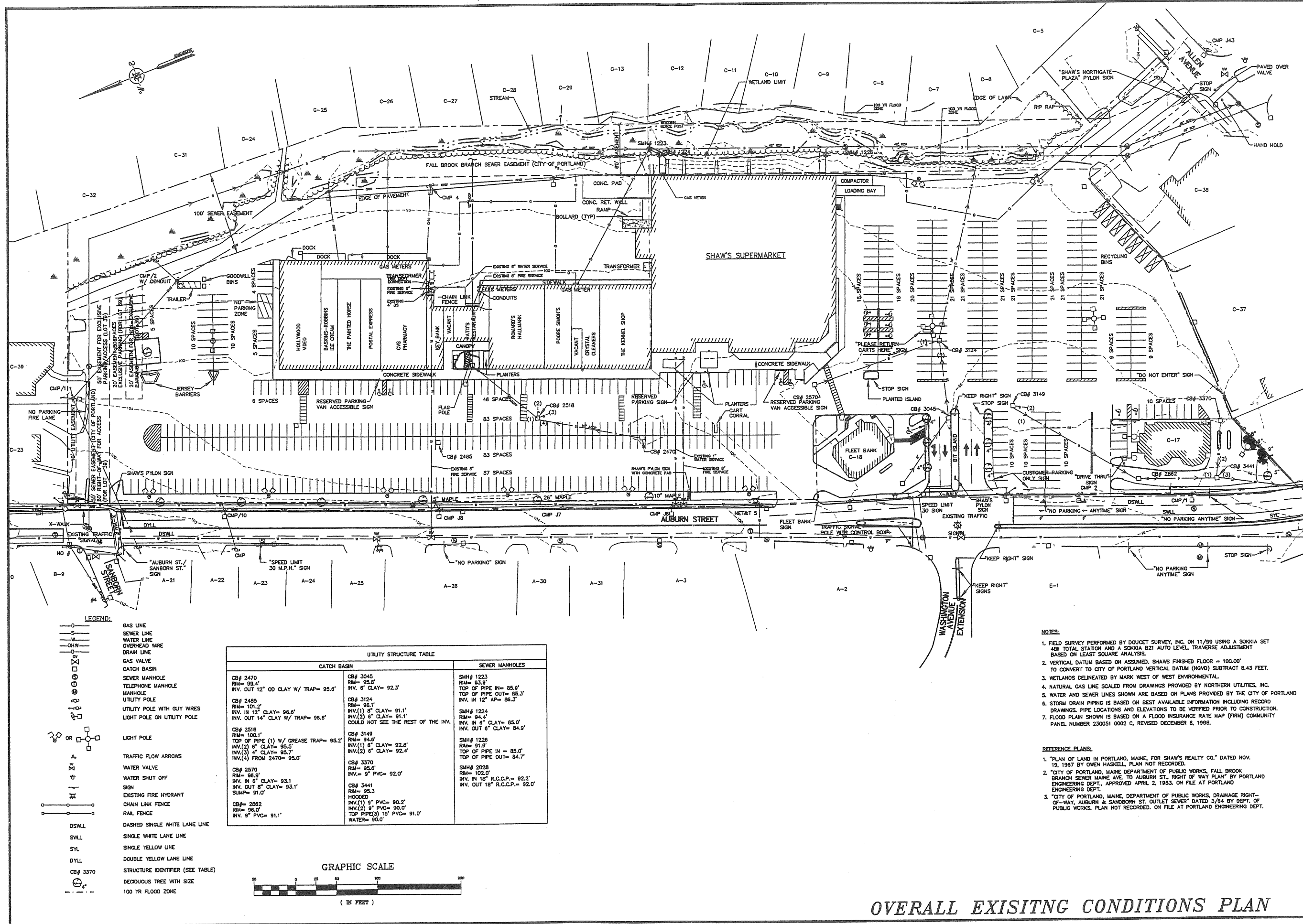
DOUCET SURVEYING
Serving Your Professional Surveying & Mapping Needs
76 Eastern Street, P.O. Box 163, Newmarket, NH 03857-0163
Voice (603) 656-8506, Fax (603) 656-1119



- LEGEND:**
- GRANITE BOUND FOUND
 - IRON PIPE OR REBAR FOUND
 - GAS VALVE
 - CATCH BASIN
 - SEWER MANHOLE
 - TELEPHONE MANHOLE
 - UTILITY POLE
 - UTILITY POLE WITH GUY WIRES
 - LIGHT POLE ON UTILITY POLE
 - WATER VALVE
 - WATER SHUT OFF
 - SIGN
 - EXISTING FIRE HYDRANT
 - WETLAND SYMBOL
- TRAFFIC FLOW ARROWS**
- RAIL FENCE
 - DASHED SINGLE WHITE LANE LINE
 - SINGLE WHITE LANE LINE
 - SINGLE YELLOW LANE LINE
 - DOUBLE YELLOW LANE LINE
 - BITUMINOUS UNDERGROUND TELEPHONE STRUCTURE IDENTIFIER (SEE TABLE)
 - TAX MAP & LOT NUMBER
 - TREE WITH SIZE
 - 2' CONTOUR LINE
 - DRAIN LINE
 - EDGE OF WETLAND
 - EASEMENT LINE
- NOTE:**
ALL ELECTRIC, GAS, TEL, WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN ON THIS SITE USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-800-225-4977.

NO.	DATE	DESCRIPTION	BY

DRAWN BY: RAS	DATE: JAN. 6, 2000
CHECKED BY: WJD	DRAWING NO.: 124D
JOB NO. 124	SHEET 1 OF 1



REVISIONS	
No.	Description
1	REVISED PER CITY REVIEW
	DAB
	Appd
	Date
	5/25/00

DATE: MARCH 21, 2000
 SCALE: AS SHOWN
 DESIGNED BY: DAB
 DRAWN BY: DEJ
 APPROVED BY: GMM
 PROJECT NO.: 1251
 FILE NO.: 1251EC.DWG

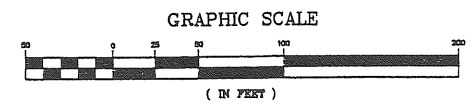
Shaw's
 NORTHGATE PLAZA
 PORTLAND, MAINE



Appledore Engineering Inc.
 600 State Street, Suite D
 Portsmouth, New Hampshire 03801
 (603) 433-6888
 ash@appledore.com

- LEGEND:**
- GAS LINE
 - SEWER LINE
 - WATER LINE
 - OVERHEAD WIRE
 - DRAIN LINE
 - GAS VALVE
 - CATCH BASIN
 - SEWER MANHOLE
 - TELEPHONE MANHOLE
 - MANHOLE
 - UTILITY POLE
 - UTILITY POLE WITH GUY WIRES
 - LIGHT POLE ON UTILITY POLE
 - LIGHT POLE
 - TRAFFIC FLOW ARROWS
 - WATER VALVE
 - WATER SHUT OFF
 - SIGN
 - EXISTING FIRE HYDRANT
 - CHAIN LINK FENCE
 - RAIL FENCE
 - DASHED SINGLE WHITE LANE LINE
 - SINGLE WHITE LANE LINE
 - SINGLE YELLOW LINE
 - DOUBLE YELLOW LANE LINE
 - STRUCTURE IDENTIFIER (SEE TABLE)
 - DECIDUOUS TREE WITH SIZE
 - 100 YR FLOOD ZONE

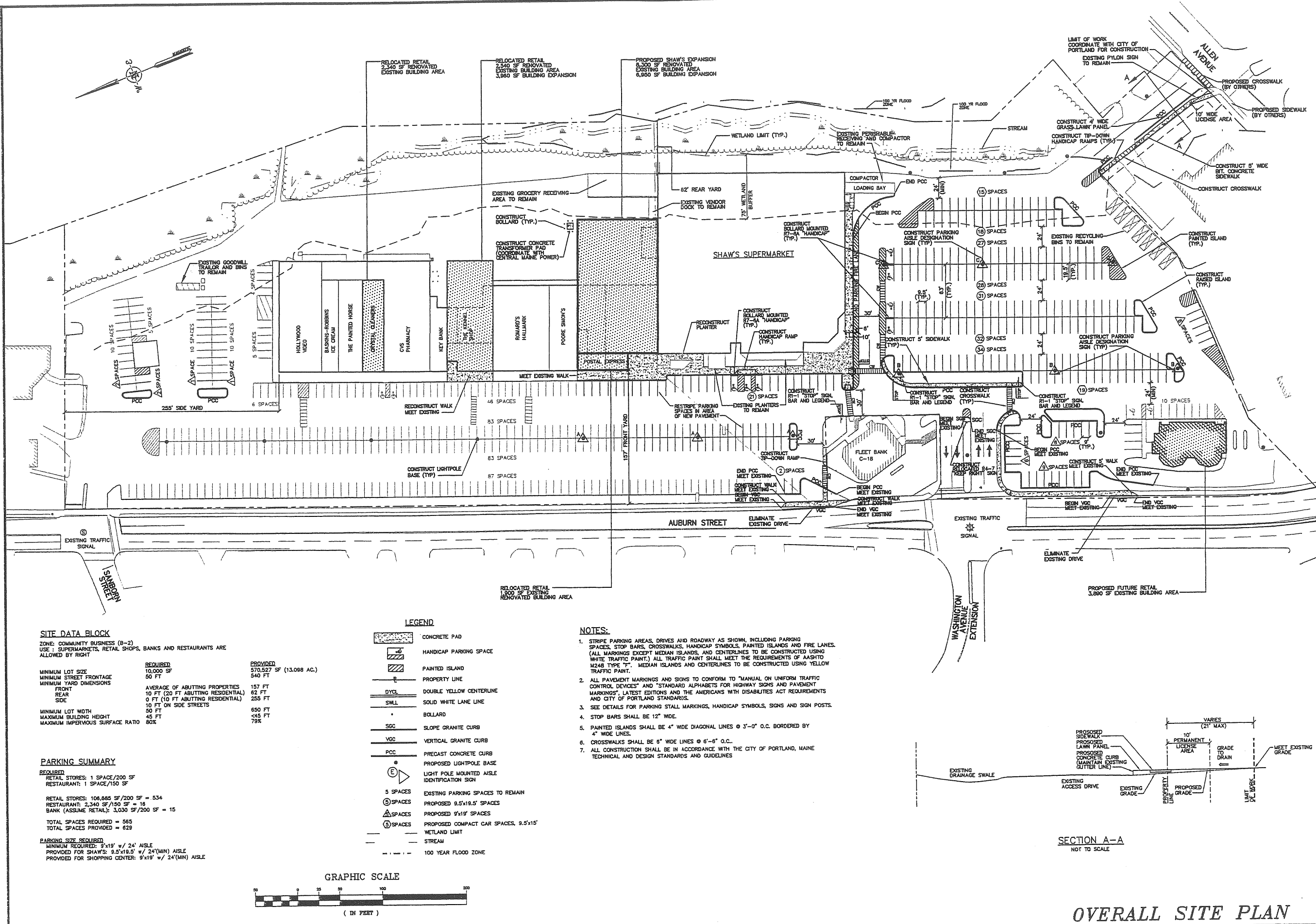
UTILITY STRUCTURE TABLE		
CATCH BASIN		SEWER MANHOLES
CB# 2470 RM= 98.4' INV. OUT 12" OD CLAY W/ TRAP= 95.5'	CB# 3045 RM= 95.5' INV. 6" CLAY= 92.3'	SMH# 1223 RM= 93.9' TOP OF PIPE IN= 85.9' TOP OF PIPE OUT= 85.3' INV. IN 12" AP= 86.3'
CB# 2485 RM= 101.2' INV. IN 12" CLAY= 98.6' INV. OUT 14" CLAY W/ TRAP= 96.5'	CB# 3124 RM= 98.1' INV.(1) 8" CLAY= 91.1' INV.(2) 8" CLAY= 91.1' COULD NOT SEE THE REST OF THE INV.	SMH# 1224 RM= 94.4' INV. IN 6" CLAY= 85.0' INV. OUT 6" CLAY= 84.9'
CB# 2518 RM= 100.1' TOP OF PIPE (1) W/ GREASE TRAP= 95.2' INV.(1) 8" CLAY= 95.5' INV.(2) 4" CLAY= 95.7' INV.(4) FROM 2470= 95.0'	CB# 3148 RM= 94.6' INV.(1) 8" CLAY= 92.8' INV.(2) 8" CLAY= 92.4'	SMH# 1225 RM= 91.9' TOP OF PIPE IN = 85.0' TOP OF PIPE OUT= 84.7'
CB# 2570 RM= 96.9' INV. IN 8" CLAY= 93.1' INV. OUT 8" CLAY= 93.1' SLUMP= 91.0'	CB# 3370 RM= 95.6' INV.= 9" PVC= 92.0'	SMH# 2026 RM= 102.0' INV. IN 18" R.C.C.P.= 92.2' INV. OUT 18" R.C.C.P.= 92.0'
CB# 2862 RM= 96.0' INV. 9" PVC= 91.1'	CB# 3441 RM= 95.3' HOOKED INV.(1) 9" PVC= 90.2' INV.(2) 9" PVC= 90.0' TOP PIPE(3) 15" PVC= 91.0' WATER= 90.0'	



- NOTES:**
- FIELD SURVEY PERFORMED BY DOUCET SURVEY, INC. ON 11/99 USING A SOKKIA SET 481 TOTAL STATION AND A SOKKIA B21 AUTO LEVEL TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
 - VERTICAL DATUM BASED ON ASSUMED, SHAW'S FINISHED FLOOR = 100.00' TO CONVERT TO CITY OF PORTLAND VERTICAL DATUM (NGVD) SUBTRACT 8.43 FEET.
 - WETLANDS DELINEATED BY MARK WEST OF WEST ENVIRONMENTAL.
 - NATURAL GAS LINE SCALED FROM DRAWINGS PROVIDED BY NORTHERN UTILITIES, INC.
 - WATER AND SEWER LINES SHOWN ARE BASED ON PLANS PROVIDED BY THE CITY OF PORTLAND.
 - STORM DRAIN PIPING IS BASED ON BEST AVAILABLE INFORMATION INCLUDING RECORD DRAWINGS. PIPE LOCATIONS AND ELEVATIONS TO BE VERIFIED PRIOR TO CONSTRUCTION.
 - FLOOD PLAIN SHOWN IS BASED ON A FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER 230051 0002 C, REVISED DECEMBER 8, 1998.

- REFERENCE PLANS:**
- "PLAN OF LAND IN PORTLAND, MAINE, FOR SHAW'S REALTY CO." DATED NOV. 19, 1987 BY OWEN HASKELL, PLAN NOT RECORDED.
 - "CITY OF PORTLAND, MAINE DEPARTMENT OF PUBLIC WORKS, FALL BROOK BRANCH SEWER MAINE AVE. TO AUBURN ST., RIGHT OF WAY PLAN" BY PORTLAND ENGINEERING DEPT., APPROVED APRIL 2, 1933, ON FILE AT PORTLAND ENGINEERING DEPT.
 - "CITY OF PORTLAND, MAINE, DEPARTMENT OF PUBLIC WORKS, DRAINAGE RIGHT-OF-WAY, AUBURN & SANBORN ST. OUTLET SEWER" DATED 3/84 BY DEPT. OF PUBLIC WORKS. PLAN NOT RECORDED, ON FILE AT PORTLAND ENGINEERING DEPT.

OVERALL EXISTING CONDITIONS PLAN



SITE DATA BLOCK

ZONE: COMMUNITY BUSINESS (B-2)
 USE: SUPERMARKETS, RETAIL SHOPS, BANKS AND RESTAURANTS ARE ALLOWED BY RIGHT

	REQUIRED	PROVIDED
MINIMUM LOT SIZE	10,000 SF	570,527 SF (13,098 AC.)
MINIMUM STREET FRONTAGE	50 FT	540 FT
MINIMUM YARD DIMENSIONS		
FRONT	AVERAGE OF ABUTTING PROPERTIES	157 FT
REAR	10 FT (20 FT ABUTTING RESIDENTIAL)	82 FT
SIDE	0 FT (10 FT ABUTTING RESIDENTIAL)	255 FT
	10 FT ON SIDE STREETS	650 FT
MINIMUM LOT WIDTH	50 FT	<45 FT
MAXIMUM BUILDING HEIGHT	45 FT	79%
MAXIMUM IMPERVIOUS SURFACE RATIO	80%	

PARKING SUMMARY

REQUIRED
 RETAIL STORES: 1 SPACE/200 SF
 RESTAURANT: 1 SPACE/150 SF

RETAIL STORES: 106,855 SF/200 SF = 534
 RESTAURANT: 2,340 SF/150 SF = 16
 BANK (ASSUME RETAIL): 3,030 SF/200 SF = 15

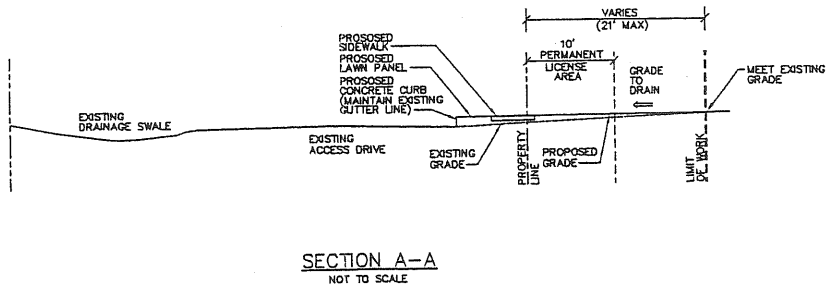
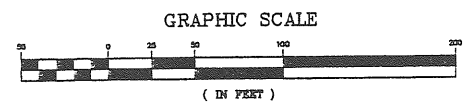
TOTAL SPACES REQUIRED = 565
 TOTAL SPACES PROVIDED = 629

PARKING SIZE REQUIRED
 MINIMUM REQUIRED: 9'x19' w/ 24' AISLE
 PROVIDED FOR SHAW'S: 9.5'x19.5' w/ 24'(MIN) AISLE
 PROVIDED FOR SHOPPING CENTER: 9'x19' w/ 24'(MIN) AISLE

LEGEND

[Symbol]	CONCRETE PAD
[Symbol]	HANDICAP PARKING SPACE
[Symbol]	PAINTED ISLAND
[Symbol]	PROPERTY LINE
[Symbol]	DOUBLE YELLOW CENTERLINE
[Symbol]	SOLID WHITE LANE LINE
[Symbol]	BOLLARD
[Symbol]	SLOPE GRANITE CURB
[Symbol]	VERTICAL GRANITE CURB
[Symbol]	PRECAST CONCRETE CURB
[Symbol]	PROPOSED LIGHTPOLE BASE
[Symbol]	LIGHT POLE MOUNTED AISLE IDENTIFICATION SIGN
[Symbol]	EXISTING PARKING SPACES TO REMAIN
[Symbol]	PROPOSED 9.5'x19.5' SPACES
[Symbol]	PROPOSED 9'x19' SPACES
[Symbol]	PROPOSED COMPACT CAR SPACES, 9.5'x15'
[Symbol]	WETLAND LIMIT
[Symbol]	STREAM
[Symbol]	100 YEAR FLOOD ZONE

- NOTES:**
1. STRIPE PARKING AREAS, DRIVES AND ROADWAY AS SHOWN, INCLUDING PARKING SPACES, STOP BARS, CROSSWALKS, HANDICAP SYMBOLS, PAINTED ISLANDS AND FIRE LANES. (ALL MARKINGS EXCEPT MEDIAN ISLANDS, AND CENTERLINES TO BE CONSTRUCTED USING WHITE TRAFFIC PAINT.) ALL TRAFFIC PAINT SHALL MEET THE REQUIREMENTS OF AASHTO M248 TYPE "F". MEDIAN ISLANDS AND CENTERLINES TO BE CONSTRUCTED USING YELLOW TRAFFIC PAINT.
 2. ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", LATEST EDITIONS AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS AND CITY OF PORTLAND STANDARDS.
 3. SEE DETAILS FOR PARKING STALL MARKINGS, HANDICAP SYMBOLS, SIGNS AND SIGN POSTS.
 4. STOP BARS SHALL BE 12" WIDE.
 5. PAINTED ISLANDS SHALL BE 4" WIDE DIAGONAL LINES @ 3"-0" O.C. BORDERED BY 4" WIDE LINES.
 6. CROSSWALKS SHALL BE 6" WIDE LINES @ 6"-8" O.C.
 7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORTLAND, MAINE TECHNICAL AND DESIGN STANDARDS AND GUIDELINES



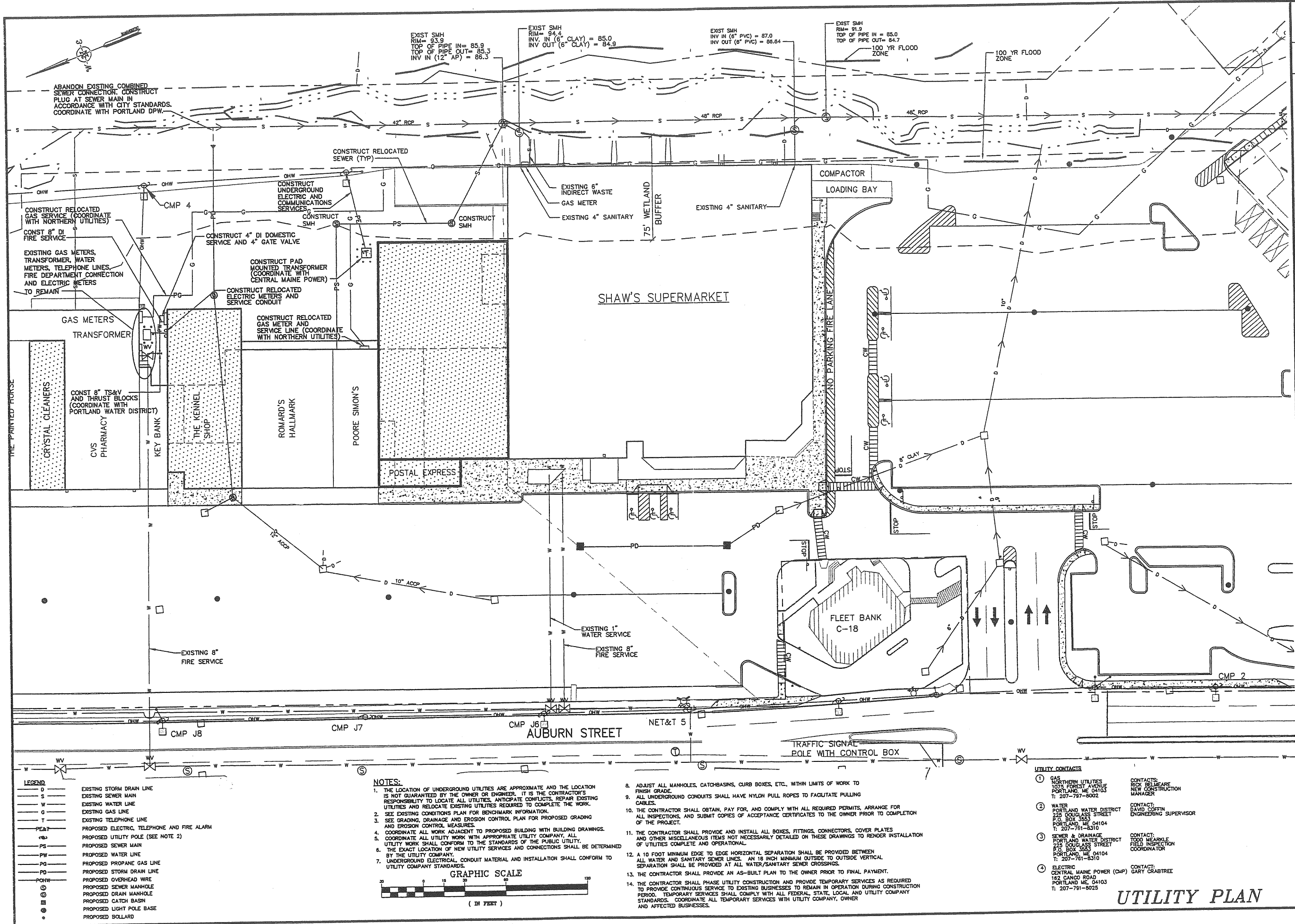
No.	Description	Appd	Date
1	REVISED PER CITY REVIEW	DAB	5/25/00

DATE: MARCH 21, 2000
 SCALE: AS SHOWN
 DESIGNED BY: DAB
 DRAWN BY: DEJ
 APPROVED BY: GMM
 PROJECT NO: 1251
 FILE NO: 1251E.C.DWG

Shaw's
 NORTHGATE PLAZA
 PORTLAND, MAINE



Appledore Engineering Inc.
 600 State Street, Suite D
 Portland, New Hampshire 03801
 (603) 433-8888
 ash@ahenr.com



1d

No.	Description	Appd	Date
1	REVISIONS	DAB	5/25/00

DATE: MARCH 21, 2000
 SCALE: AS SHOWN
 DESIGNED BY: DAB
 DRAWN BY: DEJ
 APPROVED BY: GMI
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Shaw's
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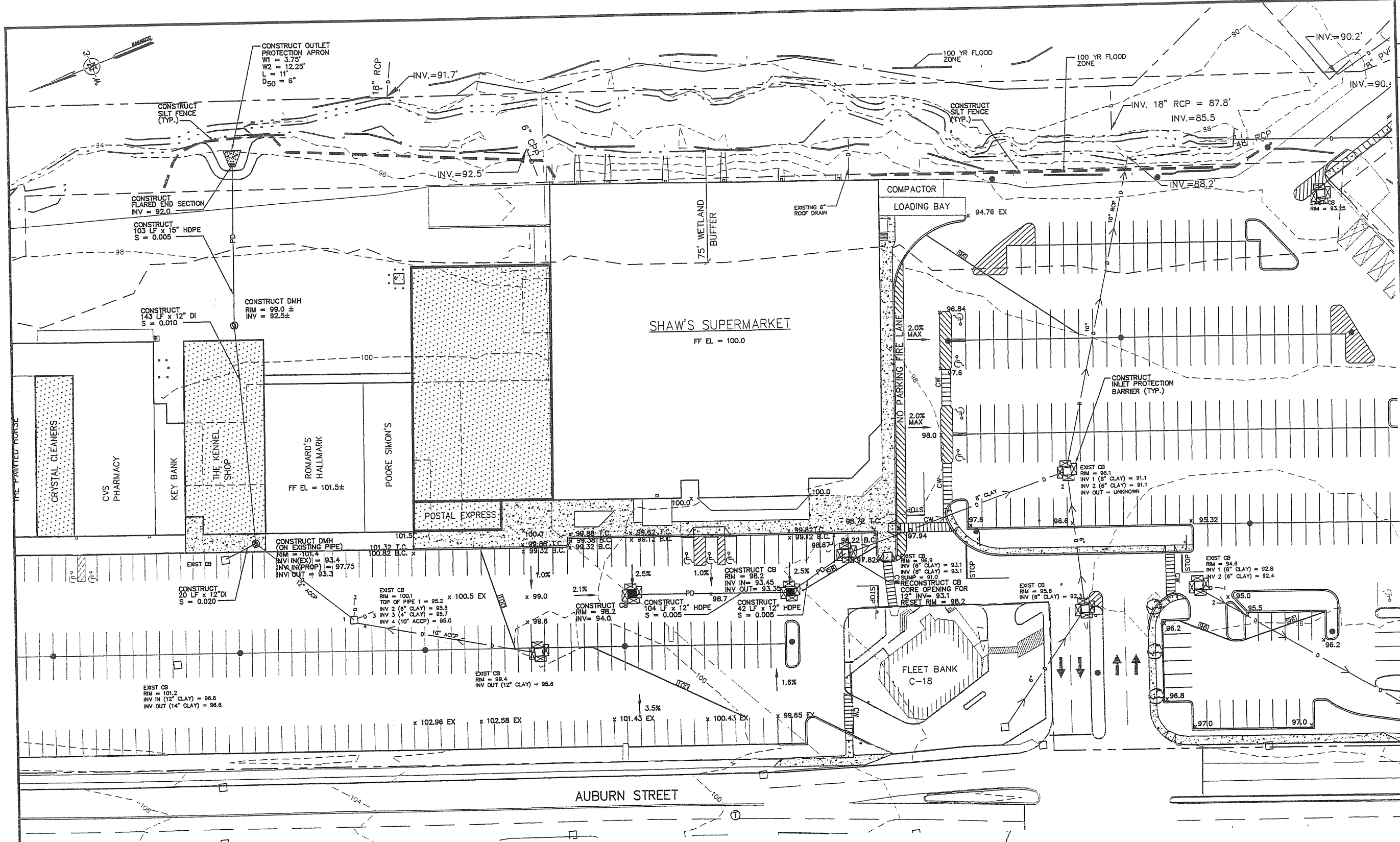
C-3

UTILITY PLAN

- NOTES:**
1. THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATION IS NOT GUARANTEED BY THE OWNER OR ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
 2. SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION.
 3. SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
 4. COORDINATE ALL WORK ADJACENT TO PROPOSED BUILDING WITH BUILDING DRAWINGS.
 5. COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY, ALL UTILITY WORK SHALL CONFORM TO THE STANDARDS OF THE PUBLIC UTILITY.
 6. THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE DETERMINED BY THE UTILITY COMPANY.
 7. UNDERGROUND ELECTRICAL CONDUIT MATERIAL AND INSTALLATION SHALL CONFORM TO UTILITY COMPANY STANDARDS.
 8. ADJUST ALL MANHOLES, CATCHBASINS, CURB BOXES, ETC., WITHIN LIMITS OF WORK TO FINISH GRADE.
 9. ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
 10. THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO COMPLETION OF THE PROJECT.
 11. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
 12. A 10 FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18 INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS.
 13. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT PLAN TO THE OWNER PRIOR TO FINAL PAYMENT.
 14. THE CONTRACTOR SHALL PHASE UTILITY CONSTRUCTION AND PROVIDE TEMPORARY SERVICES AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES TO REMAIN IN OPERATION DURING CONSTRUCTION PERIOD. TEMPORARY SERVICES SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL, AND UTILITY COMPANY STANDARDS. COORDINATE ALL TEMPORARY SERVICES WITH UTILITY COMPANY, OWNER AND AFFECTED BUSINESSES.

- UTILITY CONTACTS**
1. GAS
 NORTHERN UTILITIES
 1075 FOREST AVENUE
 PORTLAND, ME 04103
 T: 207-797-8002
 2. WATER
 PORTLAND WATER DISTRICT
 225 BOUGLASS STREET
 P.O. BOX 3563
 PORTLAND, ME 04104
 T: 207-781-8310
 3. SEWER & DRAINAGE
 PORTLAND WATER DISTRICT
 225 BOUGLASS STREET
 P.O. BOX 3563
 PORTLAND, ME 04104
 T: 207-781-8310
 4. ELECTRIC
 CENTRAL MAINE POWER (CMP)
 182 CANO ROAD
 PORTLAND, ME 04103
 T: 207-791-8025
- CONTACTS:
 ROCK BELLEARE
 NEW CONSTRUCTION
 MANAGER
- CONTACT:
 DAVID COFFIN
 ENGINEERING SUPERVISOR
- CONTACT:
 TODD MEARBLE
 FIELD INSPECTION
 COORDINATOR
- CONTACT:
 GARY CRABTREE

- LEGEND:**
- D - EXISTING STORM DRAIN LINE
 - S - EXISTING SEWER MAIN
 - W - EXISTING WATER LINE
 - G - EXISTING GAS LINE
 - T - EXISTING TELEPHONE LINE
 - PEAF - PROPOSED ELECTRIC, TELEPHONE AND FIRE ALARM
 - CU - PROPOSED UTILITY POLE (SEE NOTE 2)
 - PS - PROPOSED SEWER MAIN
 - PW - PROPOSED WATER LINE
 - PG - PROPOSED PROPANE GAS LINE
 - PD - PROPOSED STORM DRAIN LINE
 - POHW - PROPOSED OVERHEAD WIRE
 - ⊙ - PROPOSED SEWER MANHOLE
 - ⊙ - PROPOSED DRAIN MANHOLE
 - ⊙ - PROPOSED CATCH BASIN
 - ⊙ - PROPOSED LIGHT POLE BASE
 - ⊙ - PROPOSED BOLLARD



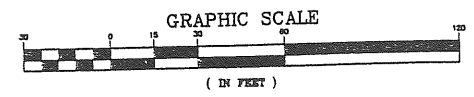
LEGEND

---	EXISTING CONTOUR
- - -	EXISTING STORM DRAIN LINE
□	EXISTING CATCH BASIN
□	PROPOSED CATCH BASIN
---	PROPOSED CONTOUR
x 37.5	PROPOSED SPOT GRADE
- - -	PROPOSED STORM DRAIN LINE
□	PROPOSED INLET PROTECTION BARRIER
---	PROPOSED SILT FENCE

- NOTES:**
- ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 4" LOAM, SEED, FERTILIZER AND MULCH.
 - COMPACTION REQUIREMENTS:**

LOCATION	MINIMUM COMPACTION
BELOW PAVED OR CONCRETE AREAS	95%
TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL	95%
BELOW LOAM AND SEED AREAS	90%

*ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557.
 - ADJUST ALL MANHOLES, CATCH-BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.



- CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE AND EXIT RAMPS AND LOADING DOCK AREAS ADJACENT TO THE BUILDING AND ALONG NEW CURBED AREAS.
- ALL STORM DRAIN SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR "HQ" ADS "N-12, OR APPROVED EQUAL) UNLESS OTHERWISE NOTED. DRAINAGE PIPE JOINTS SHALL BE CONSTRUCTED WITH GASKETS MEETING THE REQUIREMENTS OF ASTM F477.
- SEE GENERAL EROSION CONTROL NOTES ON THE EROSION CONTROL DETAIL SHEET.
- PROVIDE INLET PROTECTION BARRIERS AROUND ALL EXISTING AND PROPOSED STORM DRAINAGE INLETS AS SHOWN AND MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED.
- INSPECT EROSION & SEDIMENT CONTROL DEVICES AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAINTAIN EFFICIENCY FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE STRUCTURE HEIGHT.
- CONSTRUCT EROSION CONTROL MAT ON ALL SLOPES STEEPER THAN 3:1.

No.	Description	Appd	Date
1	REVISION	DAB	5/25/00

DATE: MARCH 21, 2000
 SCALE: AS SHOWN
 DESIGNED BY: DAB
 DRAWN BY: DEJ
 APPROVED BY: GMM
 PROJECT NO.: 1251
 FILE NO.: 1251ECCDWG

Shaw's
 NORTHGATE PLAZA
 PORTLAND, MAINE



Appledore Engineering Inc.
 600 State Street, Suite D
 Portland, New Hampshire 03801
 (603) 432-9888
 aeh@ahmnet.com

PROJECT NAME AND LOCATION

Shaw's Supermarket
Auburn Street
Portland, Maine

LATITUDE 43°-42'-09"
LONGITUDE 70°-17'-19"

DESCRIPTION

The project will include demolishing and renovating existing buildings, reconfiguring an existing parking area and constructing expanded building areas on a 13.1 acre site.
The work is anticipated to start in Summer 2000 and be completed by Spring 2001.

SOIL CHARACTERISTICS

The existing site is an urban area that is extensively developed. The underlying soils consist of silty and clayey marine lacustrine sediment and fill.

DISTURBED AREA

The total area to be disturbed is approximately 3.7 acres.

SEQUENCE OF MAJOR ACTIVITIES

1. Install temporary erosion control haybales and silt fences.
2. Demolish existing buildings and parking areas.
3. Construct new buildings, utilities and parking fields.
4. When all construction activity is complete and site is stabilized, remove all haybales and silt fences and sediment that has been trapped by these devices.

NAME OF RECEIVING WATERS

The storm water runoff from the site will continue to discharge into Fall Brook, located along the easterly edge of the property. Fall Brook flows southerly and discharges into a tidal flat area known as Back Cove.

EROSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES

Stabilization shall be initiated on all loam stockpiles and disturbed areas where construction activity will not occur for more than twenty one (21) calendar days by the fourteenth (14th) day after construction activity has permanently or temporarily ceased in that area. Stabilization measures to be used include:

- a. Temporary seeding.
- b. Mulching.

During construction, runoff will be diverted around the site with earth dikes, piping or stabilized channels where possible. Sheet runoff from the site will be filtered through haybale barriers and silt fences. All storm drain basin inlets shall be provided with flared sections and trash racks. The site shall be stabilized for the winter by November 15.

INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES OF EROSION AND SEDIMENT CONTROLS

A. GENERAL

- These are the general inspection and maintenance practices that will be used to implement the plan.
- o The smallest practical portion of the site will be denuded at one time.
 - o All control measures will be inspected at least once each week and following any storm event of 1 inch or greater.
 - o All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of report.
 - o Built up sediment will be removed from silt fence or haybale barriers when it has reached one third the height of the fence or bale.
 - o All diversion dikes will be inspected and any breaches promptly repaired.
 - o Temporary seeding and planting will be inspected for bare spots, washouts, and unhealthy growth.
 - o A maintenance inspection report will be made after each inspection.
 - o The Contractor will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance report.

B. FILTERS

1. Silt Fence
 - a. Synthetic filter fabric shall be a pervious sheet of propylene, nylon, polyester or ethylene yarn and shall be certified by the manufacturer or supplier as conforming to the following requirements:

Physical Property	Test	Requirements
Filtering Efficiency	VTM-51	75% minimum
Tensile Strength at 20% Maximum Elongation*	VTM-52	Extra Strength 50 lb/in (min) Standard Strength 30 lb/in (min)
Flow Rate	VTM-51	0.3 gal/sf/min (min)

 * Requirements reduced by 50 percent after six (6) months of installation.
 - b. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum length of six (6) months of expected usable construction life at a temperature range of 0 degrees F to 120 Degrees F.
 - c. The height of a silt fence shall not exceed thirty-six (36) inches.
 - d. The filter fabric shall be purchased in a continuous roll out to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced together only at support post, with a minimum six (6) inch overlap, and securely sealed.
 - e. Posts shall be spaced a maximum of ten (10) feet apart at the barrier location and driven securely into the ground (minimum of 16 inches). When extra strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet.
 - f. Posts for silt fences shall be either 4-inch diameter wood or 1.33 pounds per linear foot steel with a minimum length of 5 feet. Steel posts shall have projections for fastening wire to them.
 - g. Wire fence reinforcement for silt fences using standard strength filter cloth shall be a minimum of 42 inches in height, a minimum of 14 gauge and shall have a maximum mesh spacing of 6 inches.
 - h. A trench shall be excavated approximately four (4) inches wide and four (4) inches deep along the line of posts and upslope from the barrier.
 - i. When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least one (1) inch long, the wires or hog rings. The wire shall extend no more than 36 inches above the original ground surface.
 - j. The "standard strength" filter fabric shall be stapled or wired to the fence, and eight (8) inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36 inches above the original ground surface. Filter fabric shall not be stapled to existing trees.

- k. When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of Item (i) applying.
 - l. The trench shall be backfilled and the soil compacted over the filter fabric.
 - m. Silt fences shall be removed when they have served their useful purpose, but not before the upslope areas has been permanently stabilized.
2. Sequence of Installation
Sediment barriers shall be installed prior to any soil disturbance of the contributing drainage area above them.
 3. Maintenance
 - a. Straw/hay bale barrier and silt fence barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfalls. They shall be repaired if there are any signs of erosion or sedimentation below them. Any required repairs shall be made immediately. If there are signs of undercutting at the center or the edges, or impounding of large volumes of water behind them, sediment barriers shall be replaced with a temporary check dam.
 - b. Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier still is necessary, the fabric shall be replaced promptly.
 - c. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one third (1/3) the height of the barrier.
 - d. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

C. MULCHING

1. Timing
In order for mulch to be effective, it must be in place prior to major storm events. There are two (2) types of standards which shall be used to assure this.
 - a. Apply mulch prior to any storm event.
It will be necessary to closely monitor weather predictions, usually by contacting the National Weather Service in Concord, to have adequate warning of significant storms.
 - b. Required Mulching within a specified time period.
The time period can range from 14 to 21 days of inactivity on a area, the length of time varying with site conditions. Professional judgement shall be used to evaluate the interaction of site conditions (soil erodibility, season of year, extent of disturbance, proximity to sensitive resources, etc.) and the potential impact of erosion on adjacent areas to choose an appropriate time restriction.
2. Application Rate
Mulch shall be applied at a rate of between 1.5 to 2 tons per acre, or 90 to 100 pounds per 1000 square feet.
3. Guidelines for Winter Mulch Application.
When mulch is applied to provide protection over winter (post the growing season) it shall be at a rate of 6,000 pounds of hay or straw per acre. A tackifier may be added to the mulch.
4. Maintenance
All mulches must be inspected periodically, in particular after rainstorms, to check for rill erosion. If less than 90% of the soil surface is covered by mulch, additional mulch shall be immediately applied.
5. Excelsior Matting
Excelsior Matting shall be used in place of mulch on all slopes steeper than 3:1.

D. TEMPORARY GRASS COVER

1. Seedbed Preparation
Apply fertilizer at the rate of 800 pounds per acre of 10-10-10. Apply limestone (equivalent to 50 percent calcium plus magnesium oxide) at a rate of three (3) tons per acre.
2. Seeding
 - a. Utilize annual rye grass at a rate of 40 lbs/acre.
 - b. Where the soil has been compacted by construction operations, loosen soil to a depth of two (2) inches before applying fertilizer, lime and seed.
 - c. Apply seed uniformly by hand, cyclone seeder, or hydroseeder (slurry including seed and fertilizer). Hydroseeders, which include mulch, may be left on soil surface. Seeding rates must be increased 10% when hydroseeding.
3. Maintenance
Temporary seedings shall be periodically inspected. At a minimum, 90% of the soil surface should be covered by vegetation. If any evidence of erosion or sedimentation is apparent, repairs shall be made and other temporary measures used in the interim (mulch, filter barriers, check dams, etc.).

E. STORM DRAIN INLET PROTECTION

1. Straw/Hay Bale Inlet Structure
 - a. Bales shall be either wire bound or string tied with the bindings oriented around the sides rather than over and under the bales.
 - b. Bales shall be placed lengthwise in a single row surrounding the inlet, with the ends of adjacent bales pressed together.
 - c. The filter barrier shall be entrenched and backfilled. A trench shall be excavated around the inlet the width of bale to a minimum depth of four (4) inches. After the bales are staked, the excavated soil shall be backfilled and compacted against the filter barrier.
 - d. Each bale shall be securely anchored and held in place by at least two (2) stakes or rebar driven through the bale.
 - e. Loose straw/hay shall be wedged between bales to prevent water from entering between bales.
 - f. All structures should be inspected after every rainstorm and repairs made as necessary.
 - g. Sediment should be removed from the devices after the sediment has reached a maximum of one-third the depth of the trap.
 - h. Haybales should be removed and the area repaired as soon as the contributing drainage area to the inlet has been completely stabilized.

F. STABILIZED CONSTRUCTION ENTRANCE

1. Specifications
 - a. Aggregate Size: Use two (2) inches stone, or reclaimed or recycled concrete equivalent.
 - b. Aggregate thickness: Not less than six (6) inches.
 - c. Width: Ten (10) foot minimum, but not less than the full width of points where ingress or egress occurs.
 - d. Length: As required, but not less than fifty (50) feet.
 - e. Geotextile: To be placed over the entire area to be covered with aggregate. Piping of surface water under entrance shall be provided as required.
 - f. Criteria for Geotextile: The fabrics shall be Trevi Spunbond 1135, Mirafi 600x or equal.

2. Maintenance

The entrance shall be maintained in a condition which will prevent tracking of sediment onto public right-of-way. When washing is required, it shall be done on an area stabilized with aggregate which drains into an approved sediment trapping device. All sediment shall be prevented from entering storm drains, ditches, or waterways.

TIMING OF CONTROLS/MEASURES

As indicated in the sequence of Major Activities the haybales and silt fences shall be installed prior to commencing any clearing or grading of the site. Structural controls shall be installed concurrently with the applicable activity. Areas where construction activity temporarily ceases for more than twenty one (21) days will be stabilized with a temporary seed and mulch within fourteen (14) days of the last disturbance. Once construction activity ceases permanently in an area, silt fences and haybale barriers and any earth/dikes will be removed once permanent measures are established.

WASTE DISPOSAL

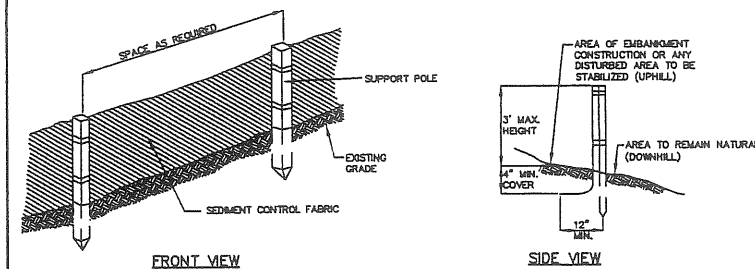
- A. WASTE MATERIALS
All waste materials will be collected and stored in securely lidded receptacles. All trash and construction debris from the site will be deposited in a dumpster. No construction waste materials will be buried on site. All personnel will be instructed regarding the correct procedure for waste disposed by the superintendent.
- B. HAZARDOUS WASTE
All hazardous waste materials will be disposed of in the manner specified by local or state regulation or by the manufacturer. Site personnel will be instructed in these practices by the superintendent.
- C. SANITARY WASTE
All sanitary waste will be collected from the portable units a minimum of once per week by a licensed sanitary waste management contractor.

SPILL PREVENTION

- A. MATERIAL MANAGEMENT PRACTICES
The following are the material management practices that will be used to reduce the risk of spill or other accidental exposure of materials and substances during construction to stormwater runoff:
 - o Good Housekeeping:
The following good housekeeping practices will be followed on site during the construction project:
 - o An effort will be made to store only sufficient amounts of products to do the job.
 - o All materials stored on site will be stored in a neat, orderly manner in their proper (original if possible) containers and, if possible, under a roof or other enclosure.
 - o Manufacturer's recommendations for proper use and disposal will be followed.
 - o The site superintendent will inspect daily to ensure proper use and disposal of materials.
 - o Substances will not be mixed with one another unless recommended by the manufacturer.
 - o Whenever possible all of a product will be used up before disposing of the container.
 - o Hazardous Products:
The following practices will be used to reduce the risks associated with hazardous materials:
 - o Products will be kept in their original containers unless they are not resealable.
 - o Original labels and material safety data will be retained for important product information.
 - o Surplus product that must be disposed of will be discarded according to the manufacturer's recommended methods of disposal.
- B. PRODUCT SPECIFICATION PRACTICES
The following product specific practices will be followed on site:
 - o Petroleum Products:
All on site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt based substances used on site will be applied according to the manufacturer's recommendations.
 - o Fertilizers:
Fertilizers used will be applied only in the minimum amounts directed by the specifications. Once applied fertilizer will be worked into the soil to limit exposure to stormwater. Storage will be in a covered shed or enclosed trailer. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.
 - o Paints:
All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system but will be disposed of properly according to manufacturer's instructions or state and local regulations.
 - o Concrete Trucks:
Concrete trucks will discharge and wash out surplus concrete or drum wash water in a contained area on site.

C. SPILL CONTROL PRACTICES

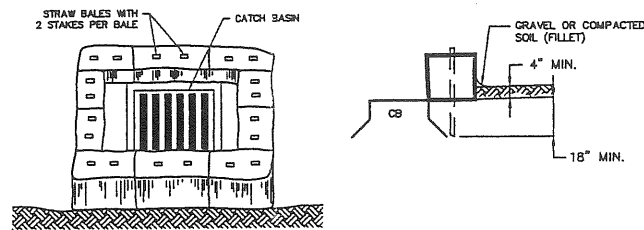
- In addition to good housekeeping and material management practices discussed in the previous section the following practices will be followed for spill prevention and cleanup:
- o Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
 - o Materials and equipment necessary for spill cleanup will be kept in the material storage area on site. Equipment and materials will include but not be limited to brooms, dustpans, mats, rags, gloves, goggles, kitty litter, sand, sawdust and plastic or metal trash containers specifically for this purpose.
 - o All spills will be cleaned up immediately after discovery.
 - o The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
 - o Spills of toxic or hazardous material will be reported to the appropriate state or local government agency, regardless of the size.
 - o The spill prevention plan will be adjusted to include measures to prevent this type of spill from recurring and how to cleanup the spill if it occurs. A description of the spill, its cause, and the cleanup measures will be included.
 - o The site superintendent responsible for day-to-day site operations will be the spill prevention and cleanup coordinator.



NOTE:
SEE EROSION CONTROL NOTES FOR MATERIAL, INSTALLATION AND MAINTENANCE REQUIREMENTS.

SILT FENCE

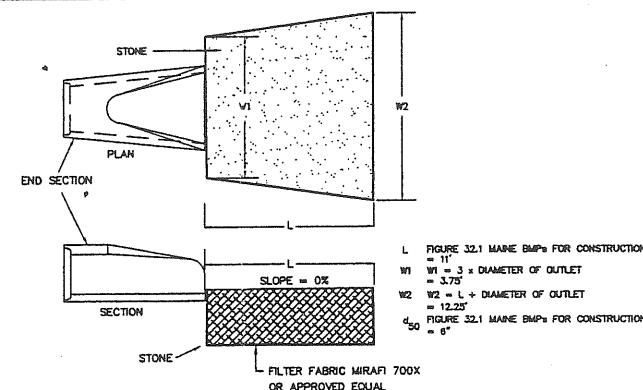
NOT TO SCALE



NOTE:
SEE EROSION CONTROL NOTES FOR MATERIAL, INSTALLATION AND MAINTENANCE REQUIREMENTS.

HAYBALE INLET PROTECTION

NOT TO SCALE



NOTES:
1. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR LOCATION.
2. CONTRACTOR SHALL ADHERE TO MATERIALS AND METHODS APPROVED BY THE STATE OF MAINE.

OUTLET PROTECTION APRON

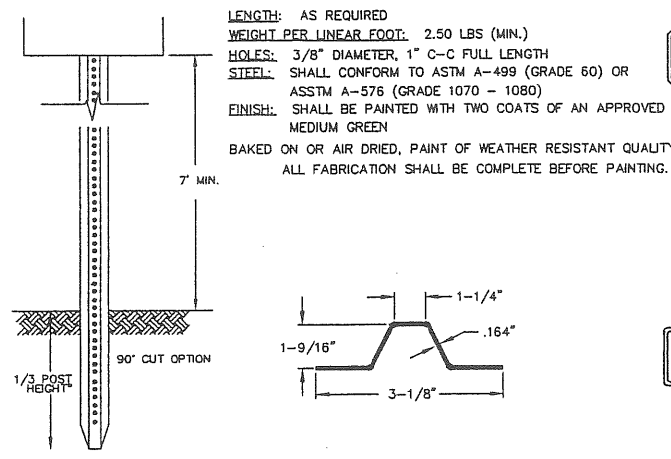
NOT TO SCALE

REVISIONS	Description	Date
1	Appd	5/25/00
	RECEIVED PER CITY REVIEW	
	DAG	

DATE: MARCH 21, 2000	SCALE: AS SHOWN
DESIGNED BY: DAB	DRAWN BY: DEJ
APPROVED BY: GMM	PROJECT NO: 1251
	FILE NO: 1251DSD1.DWG

shaw's
NORTHGATE PLAZA
PORTLAND, MAINE

Appledore Engineering Inc.
600 State Street, Suite D
Portland, New Hampshire 03801
(603) 453-6818
as@appledore.com

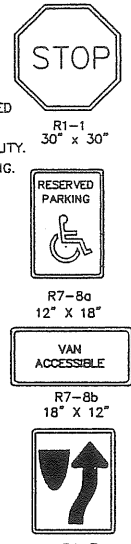


LENGTH: AS REQUIRED
 WEIGHT PER LINEAR FOOT: 2.50 LBS (MIN.)
 HOLES: 3/8" DIAMETER, 1" C-C FULL LENGTH
 STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASSTM A-576 (GRADE 1070 - 1080)
 FINISH: SHALL BE PAINTED WITH TWO COATS OF AN APPROVED MEDIUM GREEN BAKED ON OR AIR DRIED, PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.

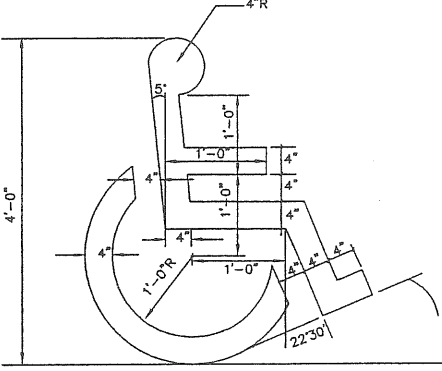
* IN LEDGE DRILL & GROUT TO A MIN OF 2"
NOTE:
 ALL SIGNS TO BE INSTALLED AS INDICATED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

SIGN LEGEND & SIGN POST

NOT TO SCALE

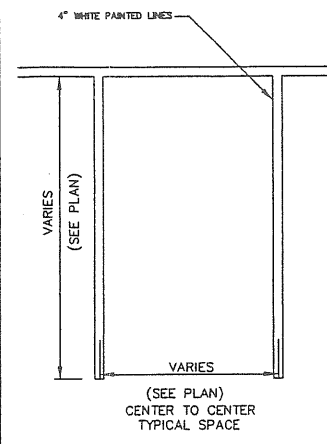


NOTE:
 SYMBOL TO BE PAINTED IN ALL HANDICAPPED SPACES



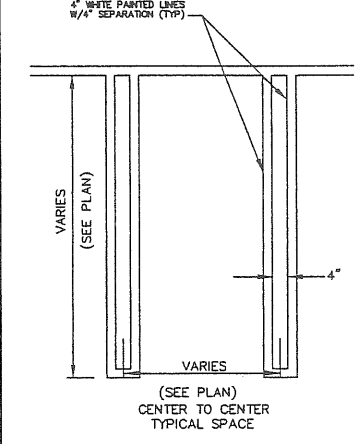
HANDICAP SYMBOL

NOT TO SCALE



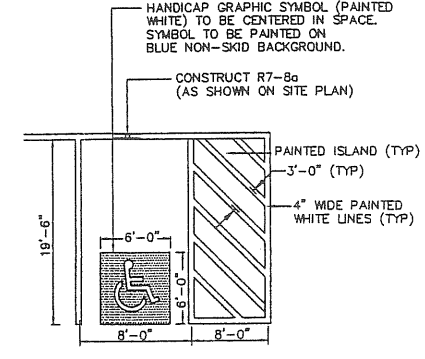
SINGLE STRIPED PARKING STALL

NOT TO SCALE



DOUBLE STRIPED PARKING STALL

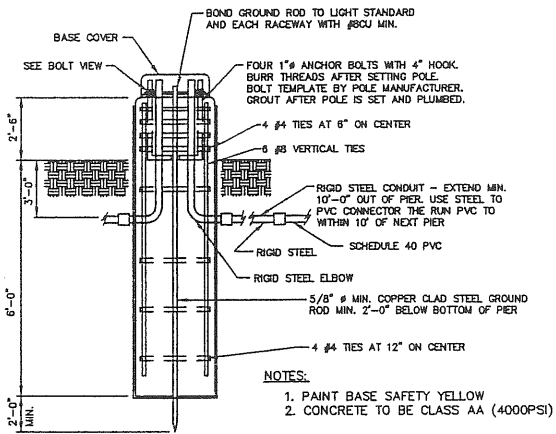
NOT TO SCALE



NOTE:
 1. ALL PAINT SHALL BE FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248-TYPE F. PAINT SHALL BE APPLIED AS SPECIFIED BY MANUFACTURER.
 2. SYMBOLS & PARKING STALLS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN W/DISABILITIES ACT & MAINE HUMAN RIGHTS ACT.
 3. SINGLE STRIPE HANDICAP STALLS SHALL BE 18'-0" LONG.

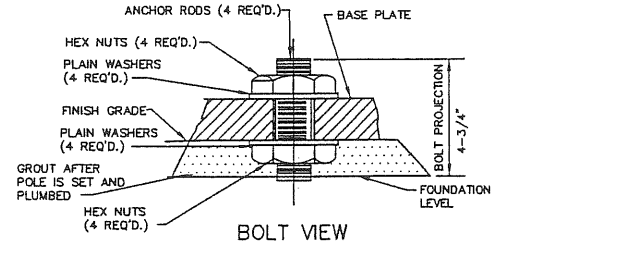
HANDICAP PARKING STALL

NOT TO SCALE

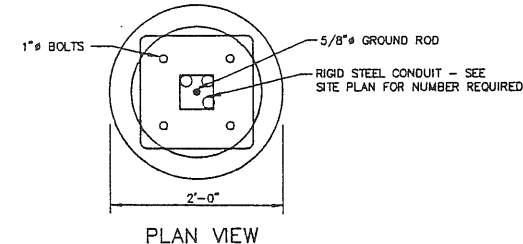


NOTES:
 1. PAINT BASE SAFETY YELLOW
 2. CONCRETE TO BE CLASS AA (4000PSI)

SECTION



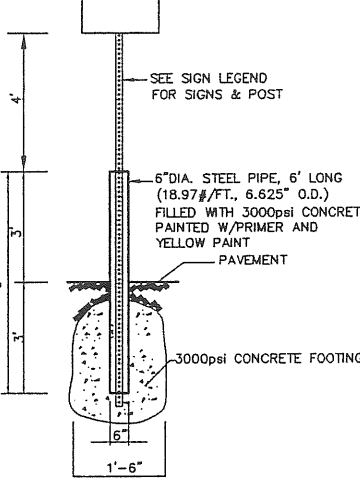
BOLT VIEW



PLAN VIEW

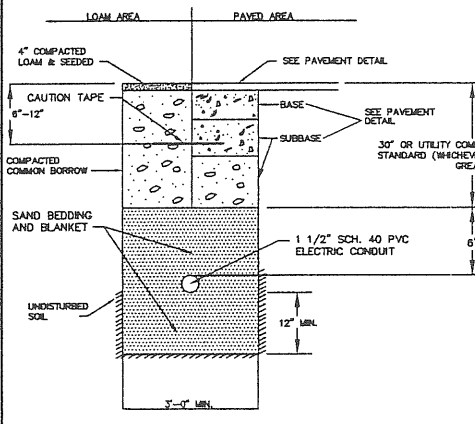
LIGHT POLE BASE

NOT TO SCALE



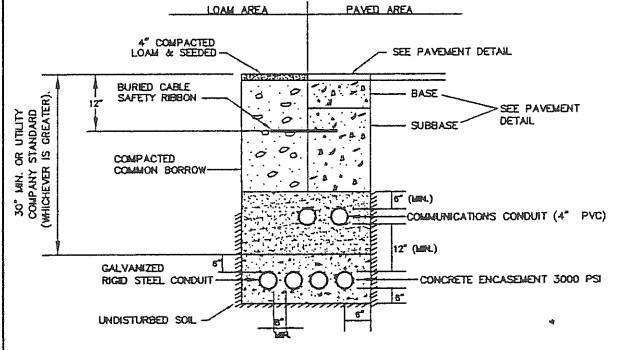
SIGN BOLLARD

NOT TO SCALE



LIGHTING CONDUIT

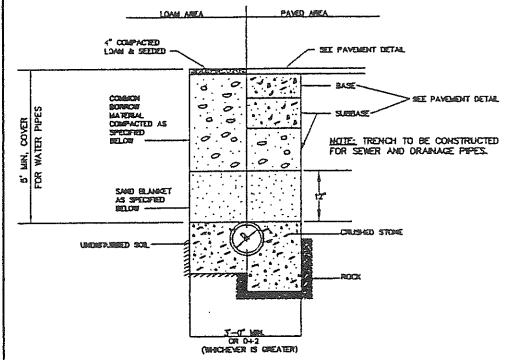
NOT TO SCALE



NOTES:
 1. NUMBER & SIZE OF UTILITY CONDUITS TO BE DETERMINED BY LOCAL UTILITY OR AS SHOWN ON ELECTRICAL DRAWINGS. CONTRACTOR TO PROVIDE ONE SPARE CONDUIT FOR EACH UTILITY TO SHAW'S. STEEL CONDUITS TO BE ENCASED IN CONCRETE.
 2. DIMENSIONS SHOWN REPRESENT OWNERS MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS MAY BE GREATER BASED ON UTILITY COMPANY STANDARDS, BUT SHALL NOT BE LESS THAN THOSE SHOWN.

ELECTRICAL AND COMMUNICATION CONDUIT

NOT TO SCALE



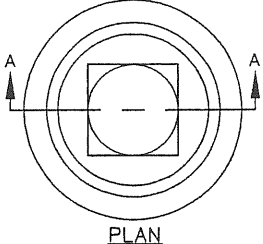
STORM DRAINAGE PIPE
 CRUSHED STONE BEDDING FOR FULL WIDTH OF THE TRENCH UP TO TOP OF PIPE, 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK
 SAND BLANKET FOR FULL WIDTH OF TRENCH UP TO 12" ABOVE TOP OF PIPE

NATURAL GAS PIPE
 TRENCH BACKFILL FOR GAS LINE INSTALLATION SHALL INCLUDE 18" SAND BEDDING BELOW THE PIPE AND 18" SAND ABOVE THE PIPE IN ACCORDANCE WITH THE GAS COMPANY REQUIREMENTS.

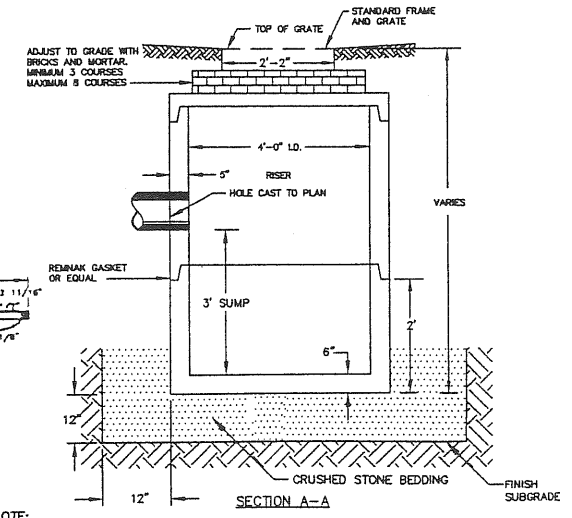
BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C. SUITABLE BACKFILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C.

UTILITY TRENCH

NOT TO SCALE



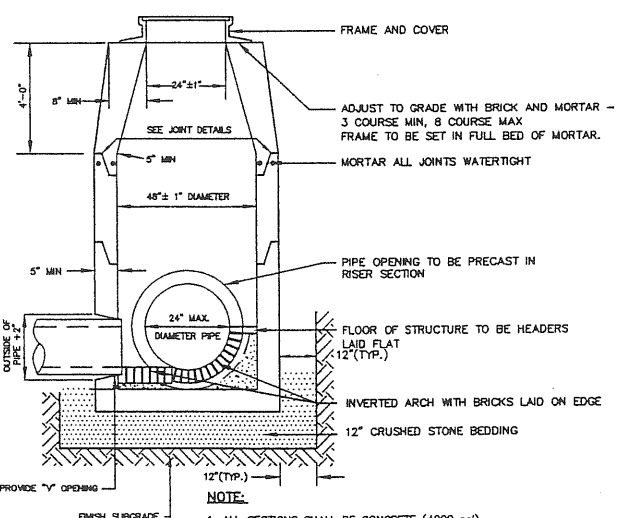
FRAME AND GRATE



CATCHBASIN

NOT TO SCALE

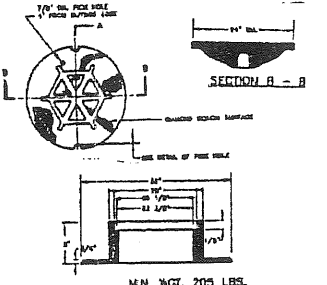
NOTE:
 1. ALL SECTIONS SHALL BE CONCRETE (4000 psi).
 2. CATCH BASINS SHALL CONFORM TO "CITY OF PORTLAND, MAINE TECHNICAL AND DESIGN STANDARDS AND GUIDELINES."



DRAIN MANHOLE

NOT TO SCALE

NOTE:
 1. ALL SECTIONS SHALL BE CONCRETE (4000 psi).
 2. DRAIN MANHOLES SHALL CONFORM TO "CITY OF PORTLAND, MAINE TECHNICAL AND DESIGN STANDARDS AND GUIDELINES."



FRAME AND COVER

DETAIL SHEET

No.	Description	Appd	Date

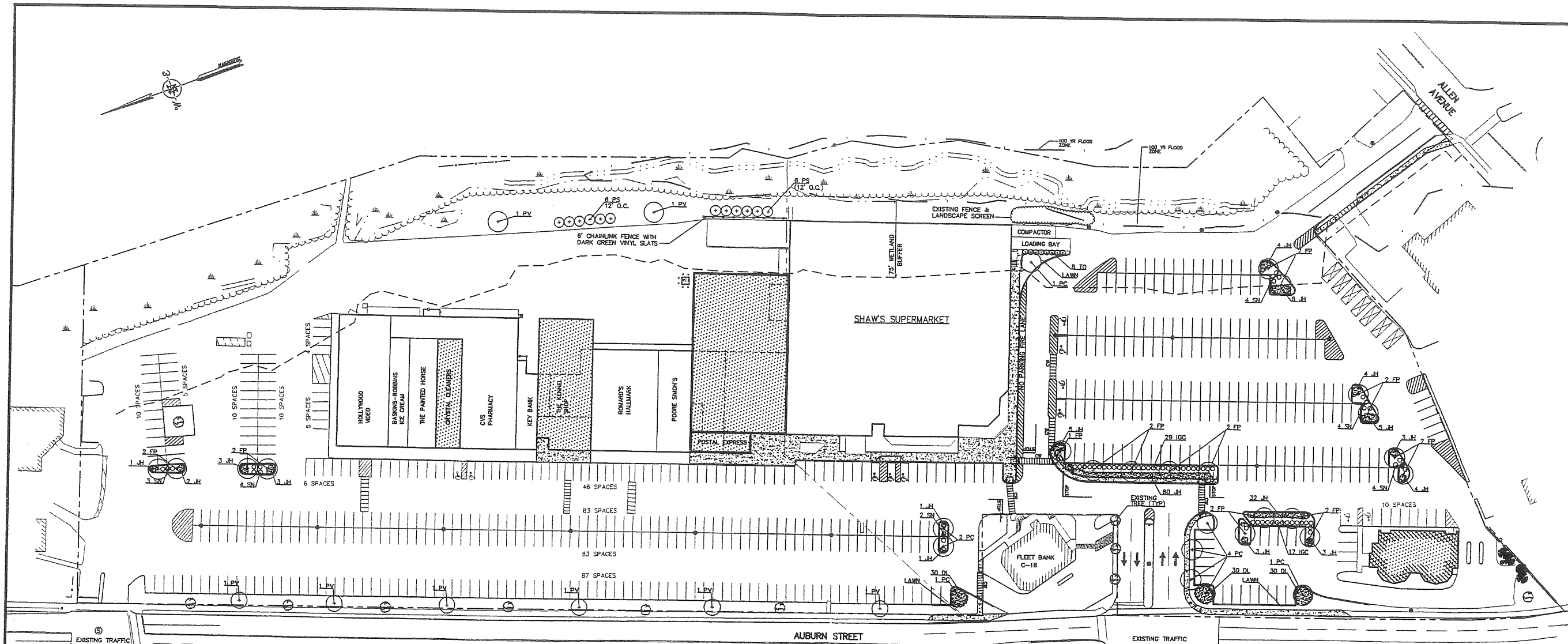
REVISIONS

DATE: MARCH 21, 2000
 SCALE: AS SHOWN
 DESIGNED BY: DAB
 DRAWN BY: DEJ
 APPROVED BY: GMM
 PROJECT NO: 1251
 FILE NO: 1251DS2.DWG

Shaw's
 NORTHGATE PLAZA
 PORTLAND, MAINE



Appledore Engineering Inc.
 800 State Street, Suite D
 Portsmouth, New Hampshire 03801
 (603) 438-9918
 ash@appledore.com

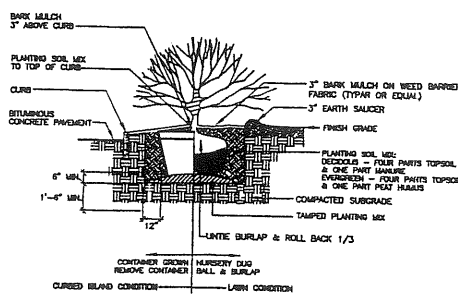


LANDSCAPE NOTES:

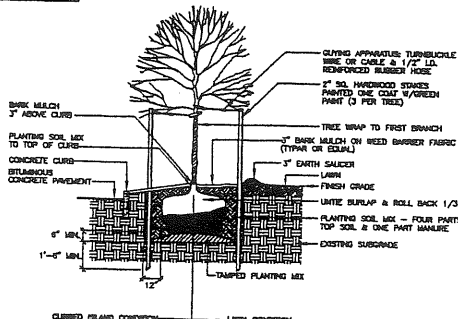
- ALL PLANTS SHALL BE NURSERY GROWN AND PLANTS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS AND SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE AND AFTER PLANTING.
- PLANTS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER INSPECTION AND ACCEPTANCE, AND SHALL HAVE AT LEAST 80% HEALTHY GROWTH AT THE END OF THE GUARANTEE PERIOD.
- ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE FOUR (4) INCH LOAM AND SEED.
- THREE (3) INCH BARK MULCH IS TO BE USED AROUND THE TREE AND SHRUB PLANTING AS SPECIFIED IN DETAILS. WHERE BARK MULCH IS TO BE USED IN A CURBED ISLAND THE BARK MULCH SHALL MEET THE TOP INSIDE EDGE OF THE CURB. ALL OTHER AREAS SHALL RECEIVE FOUR (4) INCHES OF LOAM AND SEED.
- THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING AS SHOWN.
- PARKING AREA PLANTED ISLANDS TO HAVE MINIMUM OF 4" TOPSOIL. REMOVE ALL CONSTRUCTION DEBRIS BEFORE TOPSOILING. TOP SOIL SHALL BE PLACED TO TOP OF CURB.
- ALL PLANT MATERIAL SHALL BE APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE PRIOR TO ARRIVAL ON THE SITE.
- PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE PRIOR TO DIGGING.
- THE CONTRACTOR SHALL LOCATE, VERIFY, AND MARK ALL EXISTING AND NEWLY INSTALLED UNDERGROUND UTILITIES PRIOR TO ANY LAWN WORK OR PLANTING. ANY CONFLICTS WHICH MIGHT OCCUR BETWEEN PLANTING AND UTILITIES SHALL BE IMMEDIATELY REPORTED TO THE OWNER SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.
- NO SUBSTITUTION OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTING AND LAWNS AGAINST DAMAGE FROM ON-GOING CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL ACCEPTANCE OF ALL THE PLANTINGS.
- SEE PLANTING DETAILS FOR WEED BARRIER INFORMATION.
- ALL PLANTING SHALL CONFORM TO THE CITY OF PORTLAND ARBORCULTURAL SPECIFICATIONS AND STANDARDS OF PRACTICE AND LANDSCAPE GUIDELINES.

PLANT SCHEDULE

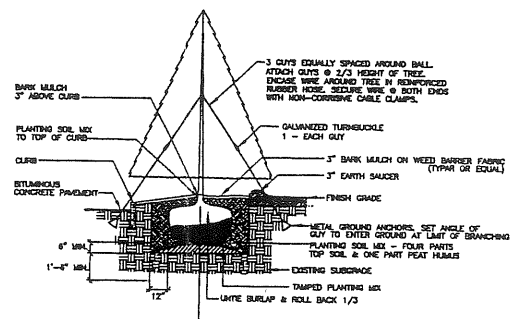
CODE	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
FP	FRAXINUS PENNSYLVANICA 'MARSHALLS'	MARSHALLS SEEDLESS GREEN ASH	3-3 1/2" CALIPER	B&B
PC	PYRUS CALLERYANA 'ARISTOCRAT'	ARISTOCRAT FLOWERING PEAR	3-3 1/2" CALIPER	B&B
PS	PINUS STROBUS	WHITE PINE	7-8' HT.	B&B(SHEARED)
PV	PRUNUS VIRGINIANA 'SCHUBERT'	CANADA RED CHERRY	2-2 1/2" CALIPER	B&B
TD	THUJA OCCIDENTALIS NIGRA	DARK AMERICAN ABORVITAE	6-7' HEIGHT	B&B
IGC	ILEX GLABRA 'COMPACTA'	COMPACT HIBBERRY	2 1/2-3' HEIGHT	CONTAINER
SN	SPIREA NIPPONICA 'SNOWMOUND'	SNOW MOUND SPIREA	2-2 1/2 HEIGHT	CONTAINER
JH	JUNIPERUS HORIZONTALIS 'HUGHES'	HUGHES JUNIPER	12-18" HEIGHT	CONTAINER
DL	HEMEROCALLIS STELLA DORO	STELLA DORO DAYLILY	2 QUART	CONTAINER



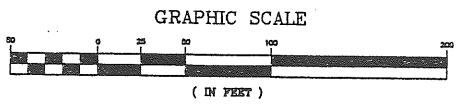
NOTE: PLANT AT SAME DEPTH AS PREVIOUSLY PLANTED, OR WITHIN 1\"/>



NOTE: PLANT AT SAME DEPTH AS PREVIOUSLY PLANTED, OR WITHIN 1\"/>



NOTE: PLANT AT SAME DEPTH AS PREVIOUSLY PLANTED, OR WITHIN 1\"/>



LANDSCAPING PLAN

No.	Description	Appd.	Date
1	REVISED PER CITY REVIEW	DAB	5/25/00

DATE: MARCH 21, 2000
 SCALE: AS SHOWN
 DESIGNED BY: DAB
 DRAWN BY: DEJ
 APPROVED BY: GMM
 PROJECT NO: 1251
 FILE NO: 1251ECC.DWG

Shaw's
 NORTHGATE PLAZA
 PORTLAND, MAINE

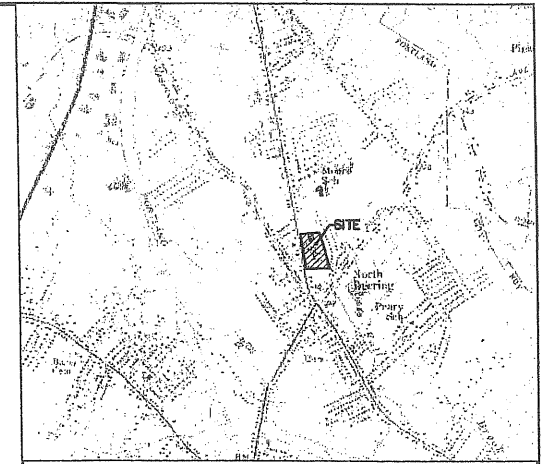


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 Portsmouth, New Hampshire 03801
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 info@appledore.com

Shaw's

**SUPERMARKET
NORTHGATE PLAZA
91 AUBURN STREET
PORTLAND, MAINE
SITE PLANS**

MARCH 21, 2000



LOCATION MAP
(NOT TO SCALE)

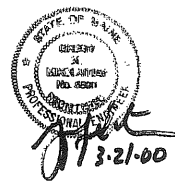
Owner: Shaw's Realty Company
P.O. Box 942
South Easton, Massachusetts 02375-0942

Prepared For: Shaw's Supermarkets, Inc.
P.O. Box 942
South Easton, Massachusetts 02375-0942

Prepared By:

 **Appledore
Engineering Inc.**

600 State Street, Suite D
Portsmouth, New Hampshire 03801
(603) 433-8818 ael@nh.earthlink.net



INDEX

Plan of Land (By Doucet Survey, Inc.)
Overall Existing Conditions Plan
Overall Site Plan
Utility and Lighting Plan
Grading, Drainage & Erosion Control Plan
Landscaping Plan
Erosion Control Notes and Details
Detail Sheets

SHEET NO.

1 of 1
C-1
C-2
C-3
C-4
C-5
C-6
C-7 - C-8

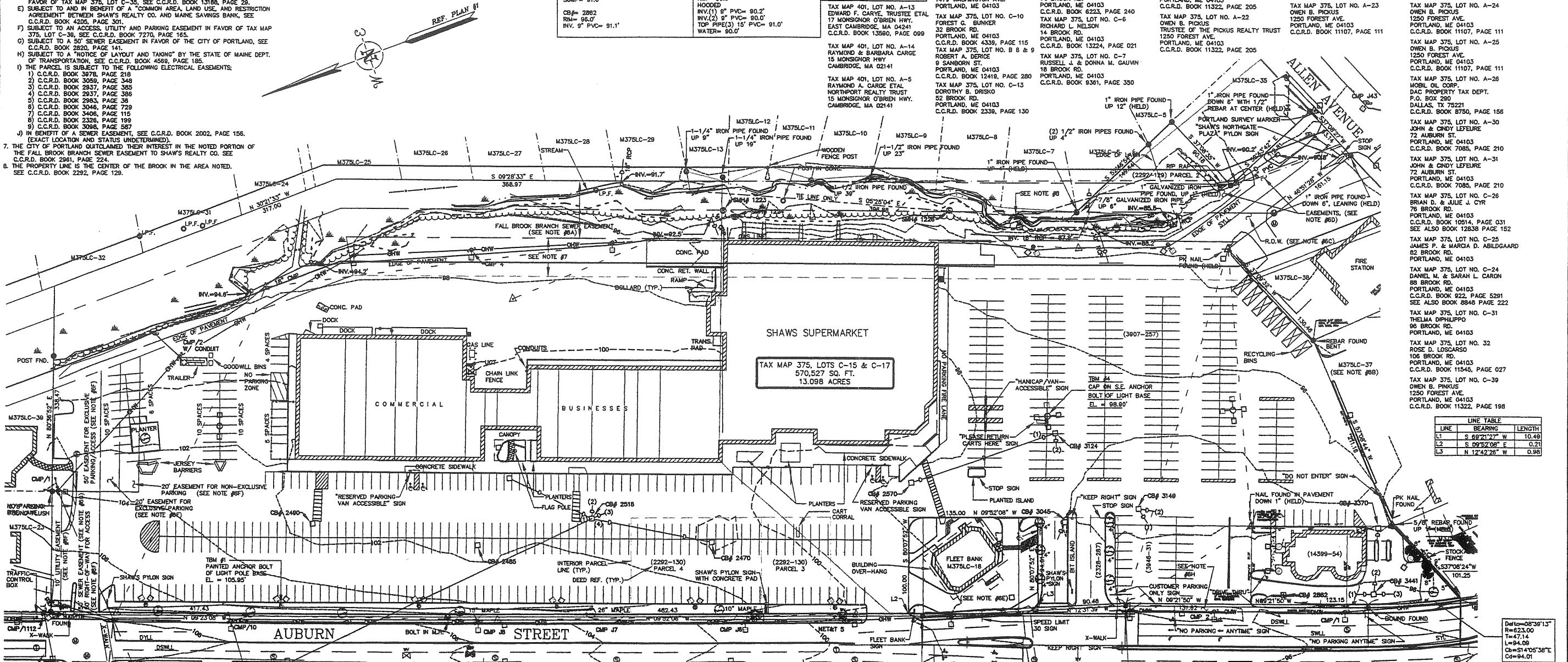
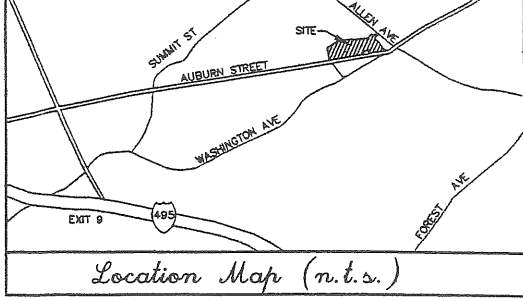
- NOTES:**
1. REFERENCE TAX MAP 375, LOT C-15 & C-17
 2. OWNER OF RECORD: SHAW'S REALTY CO. P.O. BOX 942 SOUTH EASTON, MA 02375 C.C.R.D. BOOK 2280, PAGE 250, C.C.R.D. BOOK 2242, PAGE 129, C.C.R.D. BOOK 2861, PAGE 224, C.C.R.D. BOOK 3845, PAGE 31, C.C.R.D. BOOK 14399, PAGE 54, C.C.R.D. BOOK 3907, PAGE 257, C.C.R.D. BOOK 2228, PAGE 287
 3. FIELD SURVEY PERFORMED BY M.A.T. & R.L.L. ON 11/99 USING A SOKKIA SET 481 TOTAL STATION AND A SOKKIA B21 AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
 4. VERTICAL DATUM BASED ON ASSUMED, SHAW'S FINISHED FLOOR = 100.00' TO CONVERT TO CITY OF PORTLAND DATUM
 5. WETLANDS DELINEATED BY WEST ENVIRONMENTAL
 6. THE PREMISES ARE SUBJECT TO AND/OR IN BENEFIT OF THE FOLLOWING EASEMENTS, RESTRICTIONS, ETC.:
 - A) SUBJECT TO THE FALL BROOK BRANCH SEWER EASEMENT, ASCENDED BY ORDER OF THE PORTLAND CITY COUNCIL ON 6/15/53, SEE CITY CLERK'S RECORDS, VOLUME 71, PAGE 275.
 - B) SUBJECT TO A DRAINAGE EASEMENT IN FAVOR OF TAX MAP 375, LOT C-37, SEE C.C.R.D. BOOK 2474, APGE 184. (EXACT LOCATION UNDETERMINED)
 - C) SUBJECT TO A 25' RIGHT OF WAY IN FAVOR OF TAX MAP 375, LOT C-38, SEE C.C.R.D. BOOK 2946, PAGE 450.
 - D) SUBJECT TO A GRADING, ACCESS, LANDSCAPING, AND DRAINAGE EASEMENT IN FAVOR OF TAX MAP 375, LOT C-35, SEE C.C.R.D. BOOK 13188, PAGE 29.
 - E) SUBJECT TO AND IN BENEFIT OF A COMMON AREA, LAND USE, AND RESTRICTION AGREEMENT BETWEEN SHAW'S REALTY CO. AND MAINE SAVINGS BANK, SEE C.C.R.D. BOOK 4205, PAGE 301.
 - F) SUBJECT TO AN ACCESS, UTILITY AND PARKING EASEMENT IN FAVOR OF TAX MAP 375, LOT C-36, SEE C.C.R.D. BOOK 11322, PAGE 205.
 - G) SUBJECT TO A 50' SEWER EASEMENT IN FAVOR OF THE CITY OF PORTLAND, SEE C.C.R.D. BOOK 2820, PAGE 141.
 - H) SUBJECT TO A "NOTICE OF LAYOUT AND TAKING" BY THE STATE OF MAINE DEPT. OF TRANSPORTATION, SEE C.C.R.D. BOOK 4569, PAGE 185.
 - I) THE PARCEL IS SUBJECT TO THE FOLLOWING ELECTRICAL EASEMENTS:
 - 1) C.C.R.D. BOOK 3078, PAGE 218
 - 2) C.C.R.D. BOOK 3089, PAGE 348
 - 3) C.C.R.D. BOOK 2937, PAGE 355
 - 4) C.C.R.D. BOOK 2937, PAGE 386
 - 5) C.C.R.D. BOOK 3043, PAGE 28
 - 6) C.C.R.D. BOOK 3046, PAGE 729
 - 7) C.C.R.D. BOOK 3408, PAGE 115
 - 8) C.C.R.D. BOOK 2328, PAGE 189
 - 9) C.C.R.D. BOOK 3096, PAGE 527
 - J) IN BENEFIT OF A SEWER EASEMENT, SEE C.C.R.D. BOOK 2002, PAGE 156. (EXACT LOCATION AND STATUS UNDETERMINED)
 7. THE CITY OF PORTLAND OUTLINED THEIR INTEREST IN THE NOTED PORTION OF THE FALL BROOK BRANCH SEWER EASEMENT TO SHAW'S REALTY CO. SEE C.C.R.D. BOOK 2961, PAGE 224.
 8. THE PROPERTY LINE IS THE CENTER OF THE BROOK IN THE AREA NOTED. SEE C.C.R.D. BOOK 2292, PAGE 129.

- REFERENCE PLANS:**
1. "ALLEN AVE RECONSTRUCTION PLAN AND PROFILE" (WORKING COPY) DATED NOV. 1999 BY CITY OF PORTLAND PUBLIC WORKS DEPARTMENT, ENGINEERING SECTION.
 2. "PLAN OF LAND IN PORTLAND, MAINE, FOR SHAW'S REALTY CO." DATED NOV. 18, 1967 BY OWEN HASKELL, PLAN NOT RECORDED.
 3. "CITY OF PORTLAND, MAINE DEPARTMENT OF PUBLIC WORKS, FALL BROOK BRANCH SEWER MAIN AVE. TO AUBURN ST., RIGHT OF WAY PLAN" BY PORTLAND ENGINEERING DEPT., APPROVED APRIL 2, 1953. ON FILE AT PORTLAND ENGINEERING DEPT.
 4. "TOPO & SURVEY PLAN FOR DR. MAURICE C. HOTHELM, 125 (REAR) AUBURN ST. PORTLAND, MAINE" DATED 3/25/85 BY WELLS ENGINEERING INC. PLAN NOT RECORDED. ON FILE AT PORTLAND ENGINEERING DEPT.
 5. "CITY OF PORTLAND, MAINE, DEPARTMENT OF PUBLIC WORKS, DRAINAGE RIGHT-OF-WAY, AUBURN & SANBORN ST. OUTLET SEWER" DATED 3/64 BY DEPT. OF PUBLIC WORKS. PLAN NOT RECORDED. ON FILE AT PORTLAND ENGINEERING DEPT.
 6. "PLAN OF PROPERTY LOCATED IN DEERING VILLAGE EXTENSION A MADE FOR E. WOODARD PAYNE" DATED NOV. 5, 1962 BY CARL E. EMERY, C.C.R.D. PLAN #82-4.
 7. "PLAN OF PROPERTY LOCATED IN DEERING VILLAGE EXTENSION B MADE FOR E. WOODARD PAYNE" DATED APRIL 1964 BY CARL E. EMERY, C.C.R.D. PLAN #85-13.
 8. "DEERING VILLAGE DEERING VILLAGE CORP. PORTLAND, ME." DATED FEB. 1941 BY MISSET & GRIFFIN, INC., ENGR'S. C.C.R.D. PLAN #27-12.
 9. "STANDARD BOUNDARY SURVEY OF PEOPLES SAVINGS BANK ALLEN AVE. & AUBURN AVE., PORTLAND, ME., DATED JUNE 28, 1989 BY SERAGO TECHNCS.

UTILITY STRUCTURE TABLE

CATCH BASIN		SEWER MANHOLES
CB# 2470 RM= 89.4' INV. OUT 12" CO CLAY W/ TRAP= 95.6'	CB# 3045 RM= 95.8' INV. 6" CLAY= 92.3'	SMH# 1223 RM= 93.9' TOP OF PIPE IN= 85.9' TOP OF PIPE OUT= 85.3' INV. IN 12" AP= 85.3'
CB# 2485 RM= 101.2' INV. IN 12" CLAY= 98.6' INV. OUT 14" CLAY W/ TRAP= 96.6'	CB# 3124 RM= 98.1' INV.(1) 6" CLAY= 91.1' INV.(2) 6" CLAY= 92.4'	SMH# 1224 RM= 94.4' INV. IN 6" CLAY= 85.0' INV. OUT 6" CLAY= 84.9'
CB# 2518 RM= 100.1' TOP OF PIPE (1) W/ GREASE TRAP= 95.2' INV.(1) 6" CLAY= 95.5' INV.(2) 4" CLAY= 85.7' INV.(4) FROM 2470= 95.0'	CB# 3149 RM= 94.6' INV.(1) 6" CLAY= 92.8' INV.(2) 6" CLAY= 92.4'	SMH# 1225 RM= 91.9' TOP OF PIPE IN= 85.0' TOP OF PIPE OUT= 84.7'
CB# 2570 RM= 95.9' INV. IN 6" CLAY= 93.1' INV. OUT 8" CLAY= 93.1' SUMP= 91.0'	CB# 3370 RM= 95.8' INV. IN 9" PVC= 92.0'	SMH# 2028 RM= 102.0' INV. IN 18" R.C.C.P.= 92.2' INV. OUT 18" R.C.C.P.= 92.0'
CB# 2862 RM= 98.0' INV. 9" PVC= 91.1'	CB# 3441 RM= 95.3' HOODED INV.(1) 6" PVC= 90.2' INV.(2) 6" PVC= 90.0' TOP PIPE (1) 15" PVC= 91.0' WATER= 90.0'	

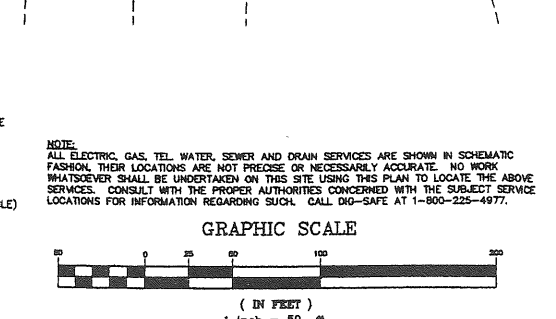
- ARBITER'S TABLE**
- TAX MAP 375, LOT NO. C-35
NORTH GATE PLAZA ASSOC. LLC
400 ALLEN AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 13197, PAGE 116
- TAX MAP 375, LOT NO. C-36
MOBIL OIL CORP.
PROPERTY TAX DIV.
P.O. BOX 290
DALLAS, TX 75225
C.C.R.D. BOOK 1773, PAGE 29
- TAX MAP 375, LOT NO. E-1
RUTH LIBBY
252 VIRGINIA ST.
PORTLAND, ME 04103
C.C.R.D. BOOK 13331, PAGE 088
- TAX MAP 375, LOT NO. A-2
BARBARA A. ESPOSITO
153 CALEB ST.
PORTLAND, ME 04102
C.C.R.D. BOOK 12202, PAGE 311
- TAX MAP 375, LOT NO. A-3
MARION S. CHRISTY
1479 WASHINGTON AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 6223, PAGE 240
- TAX MAP 375, LOT NO. C-10
FOREST G. BUNKER
32 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 4339, PAGE 115
- TAX MAP 375, LOT NO. B & 9
ROBERT A. DERIDE
9 SANBORN ST.
PORTLAND, ME 04103
C.C.R.D. BOOK 12419, PAGE 280
- TAX MAP 375, LOT NO. C-13
DOROTHY B. DRISKO
52 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 2339, PAGE 130
- TAX MAP 375, LOT NO. C-11
ANNE B. STERNATT
36 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 12372, PAGE 133
- TAX MAP 375, LOT NO. C-12
LAWRENCE J. & LAURA A. ROBINSON
46 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 9095, PAGE 217
- TAX MAP 375, LOT NO. C-29
GREGORY D. & ANN M. O'DONNELL
60 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 8181, PAGE 341
- TAX MAP 375, LOT NO. C-28
IRVING N. & NECIA ANZMANN
84 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 2766, PAGE 84
- TAX MAP 375, LOT NO. C-27
LAURIE A. DRUMMET
70 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 11322, PAGE 205
- TAX MAP 375, LOT NO. C-6
RICHARD L. NELSON
14 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 13224, PAGE 021
- TAX MAP 375, LOT NO. C-7
RUSSELL J. & DONNA M. GAUVIN
18 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 9361, PAGE 350
- TAX MAP 375, LOT NO. C-8
HELENE ANDERSON
431 SUMMIT ST.
PORTLAND, ME 04103
C.C.R.D. BOOK 12518, PAGE 086
- TAX MAP 375, LOT NO. C-5
MARGARET DOUGLASS
10 BROOK RD.
PORTLAND, ME 04103
- TAX MAP 375, LOT NO. C-9
SUZANNE RIDEOUT
25 BROOK RD.
PORTLAND, ME 04103
- TAX MAP 375, LOT NO. B-10
CPN ASSOCIATES
128 AUBURN ST.
PORTLAND, ME 04103
C.C.R.D. BOOK 8131, PAGE 336
- TAX MAP 375, LOT NO. A-21
OWEN B. PICKUS
TRUSTEE OF THE PICKUS REALTY TRUST
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11322, PAGE 205
- TAX MAP 375, LOT NO. A-23
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11107, PAGE 111
- TAX MAP 375, LOT NO. A-24
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11107, PAGE 111
- TAX MAP 375, LOT NO. A-25
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11107, PAGE 111
- TAX MAP 375, LOT NO. A-26
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11107, PAGE 111
- TAX MAP 375, LOT NO. A-27
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11107, PAGE 111
- TAX MAP 375, LOT NO. A-28
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11107, PAGE 111
- TAX MAP 375, LOT NO. A-29
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11107, PAGE 111
- TAX MAP 375, LOT NO. A-30
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11107, PAGE 111
- TAX MAP 375, LOT NO. C-26
BRIAN D. & JULIE J. CTR
78 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 10514, PAGE 031
- TAX MAP 375, LOT NO. C-25
JAMES P. & MARGA D. ASBILGAARD
82 BROOK RD.
PORTLAND, ME 04103
- TAX MAP 375, LOT NO. C-24
DANIEL M. & SARAH L. CARON
89 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 922, PAGE 5291
- TAX MAP 375, LOT NO. C-31
THELMA DPHILLIPS
98 BROOK RD.
PORTLAND, ME 04103
- TAX MAP 375, LOT NO. 32
ROSE D. LINDSARD
108 BROOK RD.
PORTLAND, ME 04103
C.C.R.D. BOOK 11545, PAGE 027
- TAX MAP 375, LOT NO. C-30
OWEN B. PICKUS
1250 FOREST AVE.
PORTLAND, ME 04103
C.C.R.D. BOOK 11322, PAGE 198



LINE TABLE

LINE	BEARING	LENGTH
L1	S 68°21'27" W	10.49
L2	S 09°52'08" E	0.21
L3	N 12°42'26" W	0.98

- LEGEND:**
- GRANITE BOUND FOUND
 - IRON PIPE OR REBAR FOUND
 - GAS VALVE
 - CATCH BASIN
 - SEWER MANHOLE
 - TELEPHONE MANHOLE
 - UTILITY POLE
 - UTILITY POLE WITH GUY WIRES
 - LIGHT POLE ON UTILITY POLE
 - WATER VALVE
 - WATER SHUT OFF
 - SIGN
 - EXISTING FIRE HYDRANT
 - WETLAND SYMBOL
 - TRAFFIC FLOW ARROWS
 - CHAIN LINK FENCE
 - RAIL FENCE
 - DASHED SINGLE WHITE LANE LINE
 - SINGLE WHITE LANE LINE
 - SINGLE YELLOW LANE LINE
 - DOUBLE YELLOW LANE LINE
 - BITUMINOUS UNDERGROUND TELEPHONE STRUCTURE IDENTIFIER (SEE TABLE)
 - TAX MAP & LOT NUMBER
 - TREE WITH SIZE
 - 2' CONTOUR LINE
 - DRAIN LINE
 - EDGE OF WETLAND
 - EASEMENT LINE



NOTE:
ALL ELECTRIC, GAS, TEL, WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FABRIKOL. THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN ON THIS SITE USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-800-225-4977.

I HEREBY CERTIFY THAT THIS BOUNDARY SURVEY CONFORMS TO THE STANDARDS OF THE MAINE BOARD OF REGISTRATION FOR LAND SURVEYORS CATEGORY 1, CONDITION 1, EXCEPTING A SURVEYORS REPORT AND LEGAL DESCRIPTION.

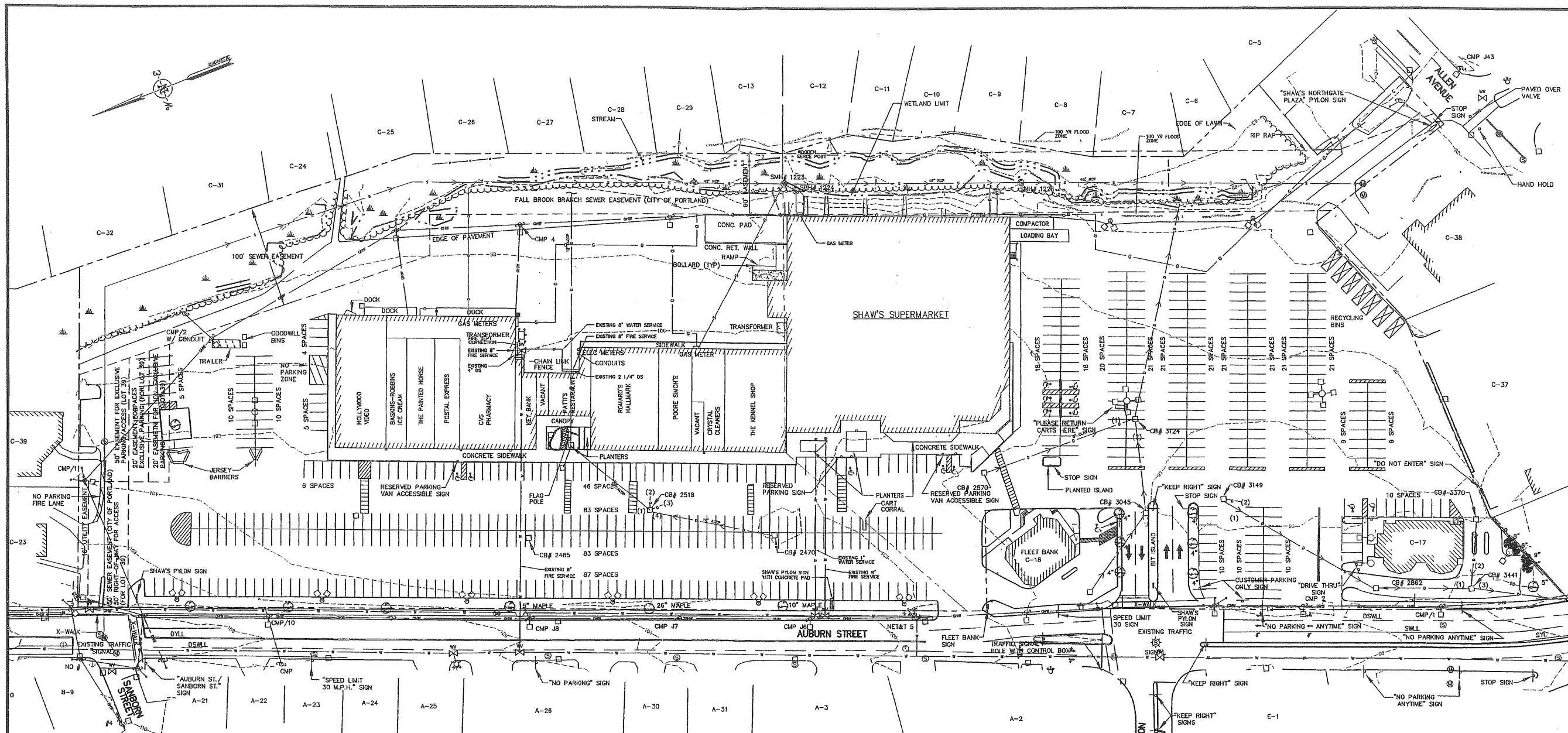
WILLIAM J. DOUCET, P.L.S. 2263

The certifications shown hereon are intended to meet registry of deed requirements and are not a certification to title or ownership of property shown. Owners of adjoining properties are according to current town assessors records.

PLAN OF LAND OF NORTHGATE SHOPPING CENTER
AUBURN STREET
PORTLAND, MAINE
FOR
SHAW'S REALTY CO.
P.O. BOX 942
SOUTH EASTON, MA 02375
JANUARY 6, 2000

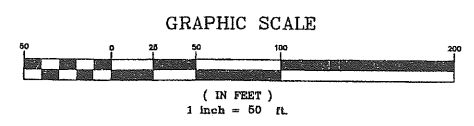
DRAWN BY:	RAS	DATE:	JAN. 6, 2000
CHECKED BY:	WJD	DRAWING NO.:	124D
JOB NO.:	124	SHEET:	1 OF 1

DOUCET SURVEYING
Serving Your Professional Surveying & Mapping Needs
76 Essex Street, P.O. Box 163, Newmarket, NH 03857-0163
Voice: (603) 859-0500, Data: (603) 859-1110



- LEGEND:**
- GAS LINE
 - SEWER LINE
 - WATER LINE
 - OVERHEAD WIRE
 - DRAIN LINE
 - GAS VALVE
 - CATCH BASIN
 - SEWER MANHOLE
 - TELEPHONE MANHOLE
 - MANHOLE
 - UTILITY POLE
 - UTILITY POLE WITH GUY WIRES
 - LIGHT POLE ON UTILITY POLE
 - LIGHT POLE
 - TRAFFIC FLOW ARROWS
 - WATER VALVE
 - WATER SHUT OFF
 - SIGN
 - EXISTING FIRE HYDRANT
 - CHAIN LINK FENCE
 - RAIL FENCE
 - DSWLL
 - SWLL
 - SYL
 - DYLL
 - DOUBLE YELLOW LANE LINE
 - STRUCTURE IDENTIFIER (SEE TABLE)
 - DECIDUOUS TREE WITH SIZE
 - 100 YR FLOOD ZONE

UTILITY STRUCTURE TABLE	
CATCH BASIN	SEWER MANHOLES
CB# 2470 RIM= 99.4' INV. OUT 12" OD CLAY W/ TRAP= 95.6'	SMH# 1223 RIM= 93.9' TOP OF PIPE IN= 85.9' TOP OF PIPE OUT= 85.3' INV. IN 12" AP= 86.3'
CB# 2485 RIM= 101.2' INV. IN 12" CLAY= 96.6' INV. OUT 14" CLAY W/ TRAP= 98.6'	SMH# 1224 RIM= 94.4' INV. IN 6" CLAY= 85.0' INV. OUT 6" CLAY= 84.9'
CB# 2518 RIM= 100.1' TOP OF PIPE (1) W/ GREASE TRAP= 95.2' INV.(2) 6" CLAY= 95.5' INV.(3) 4" CLAY= 95.7' INV.(4) FROM 2470= 95.0'	SMH# 1228 RIM= 91.0' TOP OF PIPE IN= 85.0' TOP OF PIPE OUT= 84.7'
CB# 2570 RIM= 96.9' INV. IN 6" CLAY= 93.1' INV. OUT 6" CLAY= 93.1' SUMP= 91.0'	SMH# 2028 RIM= 102.0' INV. IN 18" R.C.C.P.= 92.2' INV. OUT 18" R.C.C.P.= 92.0'
CB# 3045 RIM= 98.6' INV. 6" CLAY= 92.3'	SMH# 3441 RIM= 95.3' HOODED INV.(1) 9" PVC= 90.2' INV.(2) 9" PVC= 90.0' TOP PIPE(3) 15" PVC= 91.0' WATER= 90.0'
CB# 3124 RIM= 96.1' INV.(1) 8" CLAY= 91.1' INV.(2) 6" CLAY= 91.1' COULD NOT SEE THE REST OF THE INV.	
CB# 3149 RIM= 94.6' INV.(1) 6" CLAY= 92.8' INV.(2) 6" CLAY= 92.4'	
CB# 3370 RIM= 95.6' INV. 9" PVC= 92.0'	



- NOTES:**
- FIELD SURVEY PERFORMED BY DOUCET SURVEY, INC. ON 11/99 USING A SOKKIA SET 481 TOTAL STATION AND A SOKKIA B21 AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
 - VERTICAL DATUM BASED ON ASSUMED. SHAW'S FINISHED FLOOR = 100.00' TO CONVERT TO CITY OF PORTLAND VERTICAL DATUM (NGVD) SUBTRACT 8.43 FEET.
 - WETLANDS DELINEATED BY MARK WEST OF WEST ENVIRONMENTAL.
 - NATURAL GAS LINE SCALED FROM DRAWINGS PROVIDED BY NORTHERN UTILITIES, INC.
 - WATER AND SEWER LINES SHOWN ARE BASED ON PLANS PROVIDED BY THE CITY OF PORTLAND.
 - STORM DRAIN PIPING IS BASED ON BEST AVAILABLE INFORMATION INCLUDING RECORD DRAWINGS, PIPE LOCATIONS AND ELEVATIONS TO BE VERIFIED PRIOR TO CONSTRUCTION.
 - FLOOD PLAIN SHOWN IS BASED ON A FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER 230051 0002 C, REVISED DECEMBER 8, 1998.
- REFERENCE PLANS:**
- "PLAN OF LAND IN PORTLAND, MAINE, FOR SHAW'S REALTY CO." DATED NOV. 19, 1987 BY OWEN HASKELL. PLAN NOT RECORDED.
 - "CITY OF PORTLAND, MAINE DEPARTMENT OF PUBLIC WORKS, FALL BROOK BRANCH SEWER MAINE AVE. TO AUBURN ST., RIGHT OF WAY PLAN" BY PORTLAND ENGINEERING DEPT., APPROVED APRIL 2, 1953. ON FILE AT PORTLAND ENGINEERING DEPT.
 - "CITY OF PORTLAND, MAINE, DEPARTMENT OF PUBLIC WORKS, DRAINAGE RIGHT-OF-WAY, AUBURN & SANBORN ST. OUTLET SEWER" DATED 3/64 BY DEPT. OF PUBLIC WORKS. PLAN NOT RECORDED. ON FILE AT PORTLAND ENGINEERING DEPT.

Date _____
Appd _____
No. _____
Description _____
REVISIONS

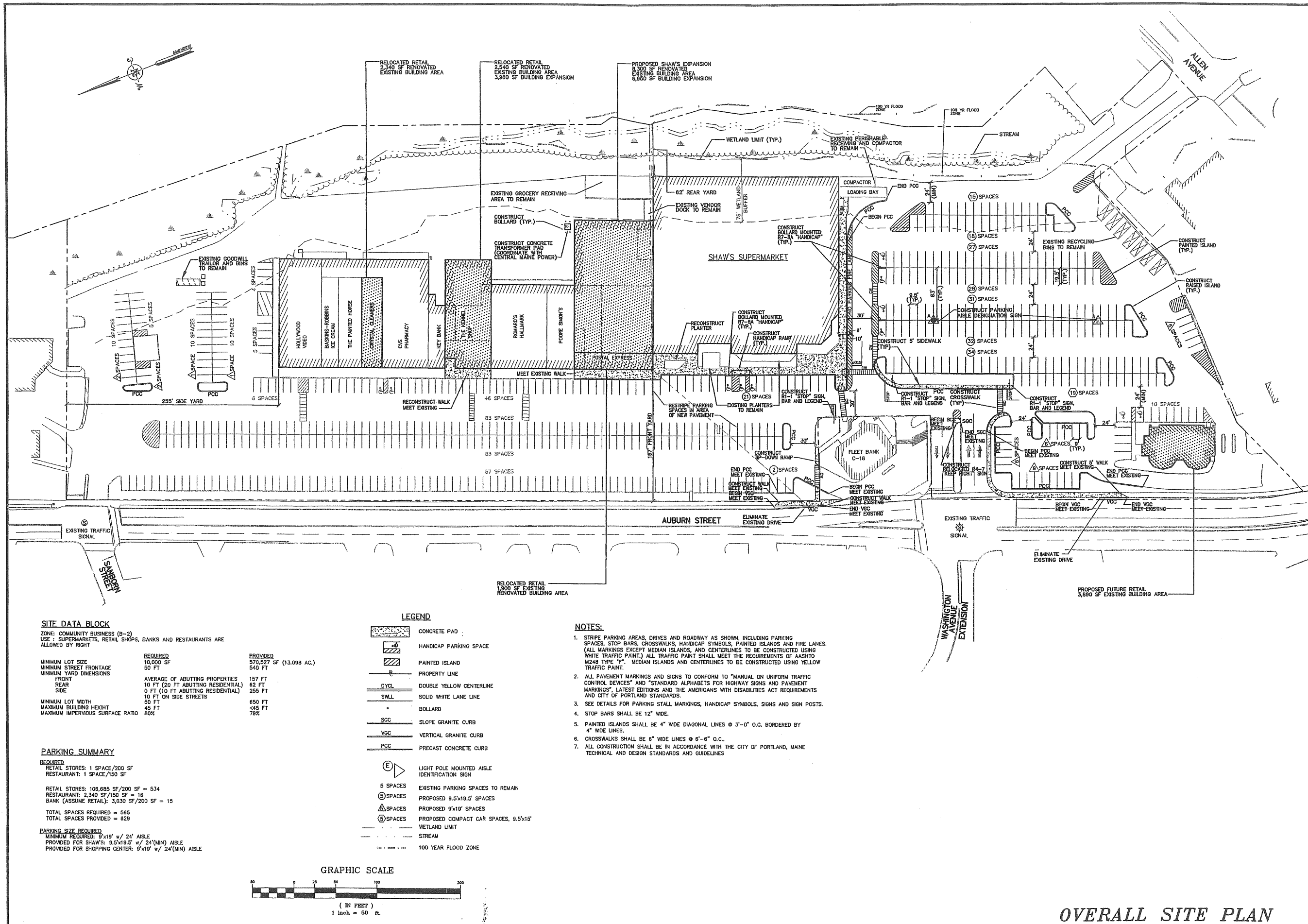
DATE: MARCH 21, 2000
SCALE: AS SHOWN
DESIGNED BY: DAB
DRAWN BY: DEJ
APPROVED BY: GMM
PROJECT NO.: 1251
FILE NO.: 125TECDWG

Shaw's
NORTHGATE PLAZA
PORTLAND, MAINE

Appledore Engineering Inc.
600 State Street, Suite D
Portland, New Hampshire 03901
(603) 483-8816
www.appledore.com

C-1

OVERALL EXISTING CONDITIONS PLAN



SITE DATA BLOCK

ZONE: COMMUNITY BUSINESS (B-2)
 USE: SUPERMARKETS, RETAIL SHOPS, BANKS AND RESTAURANTS ARE ALLOWED BY RIGHT

	REQUIRED	PROVIDED
MINIMUM LOT SIZE	10,000 SF	570,527 SF (13.098 AC.)
MINIMUM STREET FRONTAGE	50 FT	540 FT
MINIMUM YARD DIMENSIONS		
FRONT	AVERAGE OF ABUTTING PROPERTIES	157 FT
REAR	10 FT (20 FT ABUTTING RESIDENTIAL)	62 FT
SIDE	0 FT (10 FT ABUTTING RESIDENTIAL)	255 FT
MINIMUM LOT WIDTH	50 FT	650 FT
MAXIMUM BUILDING HEIGHT	45 FT	<45 FT
MAXIMUM IMPERVIOUS SURFACE RATIO	80%	78%

PARKING SUMMARY

REQUIRED
 RETAIL STORES: 1 SPACE/200 SF
 RESTAURANT: 1 SPACE/150 SF

RETAIL STORES: 106,685 SF/200 SF = 534
 RESTAURANT: 2,340 SF/150 SF = 16
 BANK (ASSUME RETAIL): 3,030 SF/200 SF = 15

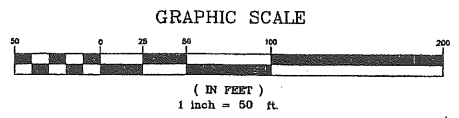
TOTAL SPACES REQUIRED = 565
 TOTAL SPACES PROVIDED = 629

PARKING SIZE REQUIRED
 MINIMUM REQUIRED: 9'x19' w/ 24' AISLE
 PROVIDED FOR SHAW'S: 9.5'x19.5' w/ 24'(MIN) AISLE
 PROVIDED FOR SHOPPING CENTER: 9'x19' w/ 24'(MIN) AISLE

LEGEND

[Pattern]	CONCRETE PAD
[Symbol]	HANDICAP PARKING SPACE
[Symbol]	PAINTED ISLAND
[Symbol]	PROPERTY LINE
[Symbol]	DOUBLE YELLOW CENTERLINE
[Symbol]	SOLID WHITE LANE LINE
[Symbol]	BOLLARD
[Symbol]	SLOPE GRANITE CURB
[Symbol]	VERTICAL GRANITE CURB
[Symbol]	PRECAST CONCRETE CURB
[Symbol]	LIGHT POLE MOUNTED AISLE IDENTIFICATION SIGN
[Symbol]	EXISTING PARKING SPACES TO REMAIN
[Symbol]	PROPOSED 9.5'x19.5' SPACES
[Symbol]	PROPOSED 9'x19' SPACES
[Symbol]	PROPOSED COMPACT CAR SPACES, 9.5'x15'
[Symbol]	WETLAND LIMIT
[Symbol]	STREAM
[Symbol]	100 YEAR FLOOD ZONE

- NOTES:**
- STRIPED PARKING AREAS, DRIVES AND ROADWAY AS SHOWN, INCLUDING PARKING SPACES, STOP BARS, CROSSWALKS, HANDICAP SYMBOLS, PAINTED ISLANDS AND FIRE LANES. (ALL MARKINGS EXCEPT MEDIAN ISLANDS, AND CENTERLINES TO BE CONSTRUCTED USING WHITE TRAFFIC PAINT). ALL TRAFFIC PAINT SHALL MEET THE REQUIREMENTS OF AASHTO M248 TYPE "T". MEDIAN ISLANDS AND CENTERLINES TO BE CONSTRUCTED USING YELLOW TRAFFIC PAINT.
 - ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", LATEST EDITIONS AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS AND CITY OF PORTLAND STANDARDS.
 - SEE DETAILS FOR PARKING STALL MARKINGS, HANDICAP SYMBOLS, SIGNS AND SIGN POSTS.
 - STOP BARS SHALL BE 12" WIDE.
 - PAINTED ISLANDS SHALL BE 4" WIDE DIAGONAL LINES @ 3'-0" O.C. BORDERED BY 4" WIDE LINES.
 - CROSSWALKS SHALL BE 6" WIDE LINES @ 6'-6" O.C.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORTLAND, MAINE TECHNICAL AND DESIGN STANDARDS AND GUIDELINES



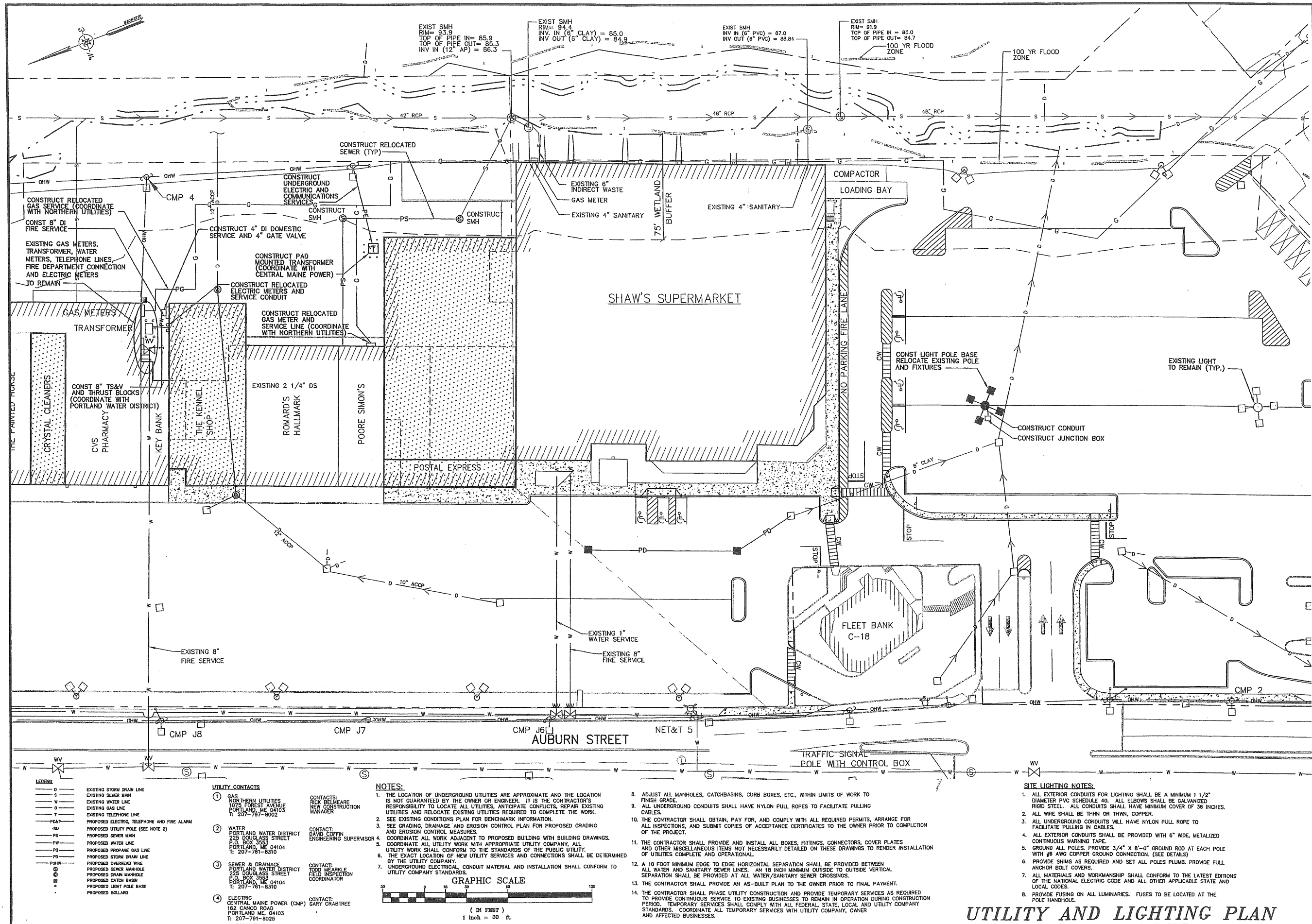
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REVISIONS			
DATE:	MARCH 21, 2000		
SCALE:	AS SHOWN		
DESIGNED BY:	DAB		
DRAWN BY:	DEJ		
APPROVED BY:	GMM		
PROJECT NO.:	1251		
FILE NO.:	1251E.C.DWG		

Shaw's
 NORTHGATE PLAZA
 PORTLAND, MAINE

Appledore Engineering Inc.
 800 State Street, Suite D
 Portsmouth, New Hampshire 03801
 (603) 433-8888
 ash@ahultrane.com

OVERALL SITE PLAN

C-2



LEGEND

—	EXISTING STORM DRAIN LINE
—	EXISTING SEWER MAIN
—	EXISTING WATER LINE
—	EXISTING GAS LINE
—	EXISTING TELEPHONE LINE
—	EXISTING FIRE ALARM
—	PROPOSED UTILITY POLE (SEE NOTE 2)
—	PROPOSED SEWER MAIN
—	PROPOSED WATER LINE
—	PROPOSED PROPANE GAS LINE
—	PROPOSED STORM DRAIN LINE
—	PROPOSED OVERHEAD WIRE
—	PROPOSED SEWER MANHOLE
—	PROPOSED DRAIN MANHOLE
—	PROPOSED CATCH BASIN
—	PROPOSED LIGHT POLE BASE
—	PROPOSED BOLLARD

UTILITY CONTACTS

1	GAS NORTHERN UTILITIES 1075 FOREST AVENUE PORTLAND, ME 04103 T: 207-797-8002	CONTACT: RICK BELICHAIRE NEW CONSTRUCTION MANAGER
2	WATER PORTLAND WATER DISTRICT 225 DOUGLASS STREET P.O. BOX 3553 PORTLAND, ME 04104 T: 207-781-8310	CONTACT: DAVID TOPPIN ENGINEERING SUPERVISOR
3	SEWER & DRAINAGE PORTLAND WATER DISTRICT 225 DOUGLASS STREET P.O. BOX 3553 PORTLAND, ME 04104 T: 207-781-8310	CONTACT: TODD MEARBLE FIELD INSPECTION COORDINATOR
4	ELECTRIC CENTRAL MAINE POWER (CMP) 162 CANCO ROAD PORTLAND, ME, 04103 T: 207-791-8025	CONTACT: GARY CRABTREE

NOTES:

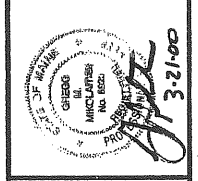
- THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATION IS NOT GUARANTEED BY THE OWNER OR ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
- SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION.
- SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
- COORDINATE ALL WORK ADJACENT TO PROPOSED BUILDING WITH BUILDING DRAWINGS.
- COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY. ALL UTILITY WORK SHALL CONFORM TO THE STANDARDS OF THE PUBLIC UTILITY.
- THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE DETERMINED BY THE UTILITY COMPANY.
- UNDERGROUND ELECTRICAL CONDUIT MATERIAL AND INSTALLATION SHALL CONFORM TO UTILITY COMPANY STANDARDS.
- ADJUST ALL MANHOLES, CATCHBASINS, CURB BOXES, ETC., WITHIN LIMITS OF WORK TO FINISH GRADE.
- ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
- THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
- A 10 FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18 INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS.
- THE CONTRACTOR SHALL PROVIDE AN AS-BUILT PLAN TO THE OWNER PRIOR TO FINAL PAYMENT.
- THE CONTRACTOR SHALL PHASE UTILITY CONSTRUCTION AND PROVIDE TEMPORARY SERVICES AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES TO REMAIN IN OPERATION DURING CONSTRUCTION PERIOD. TEMPORARY SERVICES SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. COORDINATE ALL TEMPORARY SERVICES WITH UTILITY COMPANY, OWNER AND AFFECTED BUSINESSES.

GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft

SITE LIGHTING NOTES:

- ALL EXTERIOR CONDUITS FOR LIGHTING SHALL BE A MINIMUM 1 1/2" DIAMETER PVC SCHEDULE 40. ALL ELBOWS SHALL BE GALVANIZED RIGID STEEL. ALL CONDUITS SHALL HAVE MINIMUM COVER OF 36 INCHES.
- ALL WIRE SHALL BE THIN OR THWN, COPPER.
- ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPE TO FACILITATE PULLING IN CABLES.
- ALL EXTERIOR CONDUITS SHALL BE PROVIDED WITH 6" WIDE, METALIZED CONTINUOUS WARNING TAPE.
- GROUND ALL POLES. PROVIDE 3/4" X 8'-0" GROUND ROD AT EACH POLE WITH #8 AWG COPPER GROUND CONNECTION. (SEE DETAILS)
- PROVIDE SHIMS AS REQUIRED AND SET ALL POLES PLUMB. PROVIDE FULL ANCHOR BOLT COVERS.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITIONS OF THE NATIONAL ELECTRIC CODE AND ALL OTHER APPLICABLE STATE AND LOCAL CODES.
- PROVIDE FUSING ON ALL LUMINAIRES. FUSES TO BE LOCATED AT THE POLE HANDHOLE.

No.	Description	Appd	Date



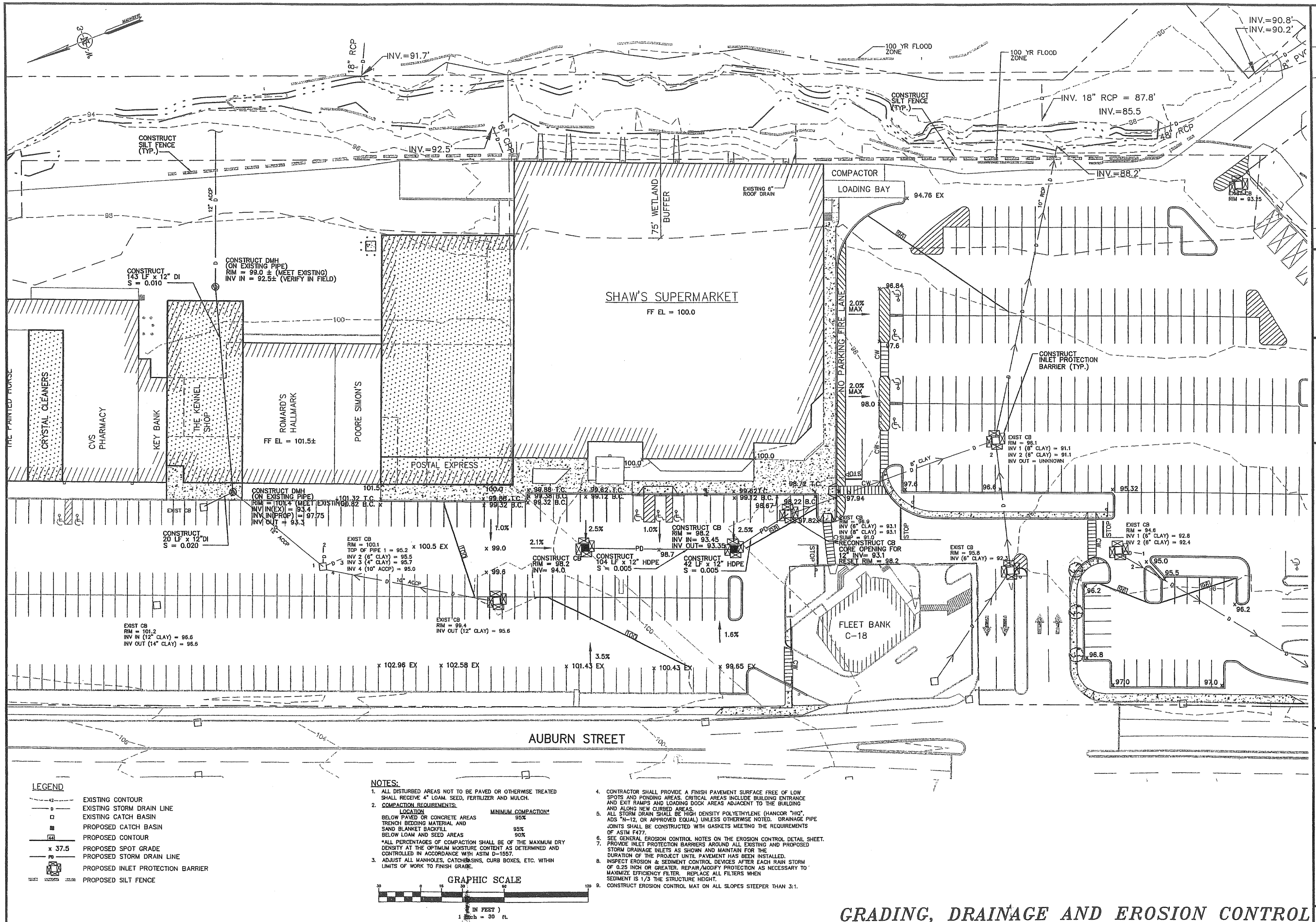
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 SCALE: AS SHOWN
 DESIGNED BY: DAB
 DRAWN BY: DEJ
 APPROVED BY: GMM
 PROJECT NO.: 1251CDWG
 FILE NO.: 1251CDWG

Shaw's
 NORTHGATE PLAZA
 PORTLAND, MAINE



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 aeh@ahultrinet.com

UTILITY AND LIGHTING PLAN



LEGEND

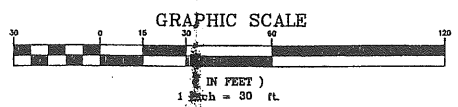
- - - - - EXISTING CONTOUR
- - - - - EXISTING STORM DRAIN LINE
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- - - - - PROPOSED CONTOUR
- x 37.5 PROPOSED SPOT GRADE
- - - - - PROPOSED STORM DRAIN LINE
- PROPOSED INLET PROTECTION BARRIER
- - - - - PROPOSED SILT FENCE

NOTES:

- ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 4" LOAM, SEED, FERTILIZER AND MULCH.
- COMPACTION REQUIREMENTS:

LOCATION	MINIMUM COMPACTION*
BELOW PAVED OR CONCRETE AREAS	95%
TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL	95%
BELOW LOAM AND SEED AREAS	90%

*ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557.
- ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
- CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE AND EXIT RAMP AND LOADING DOCK AREAS ADJACENT TO THE BUILDING AND ALONG NEW CURBED AREAS.
- ALL STORM DRAIN SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR "HQ", ADS "N-12, OR APPROVED EQUAL) UNLESS OTHERWISE NOTED. DRAINAGE PIPE JOINTS SHALL BE CONSTRUCTED WITH GASKETS MEETING THE REQUIREMENTS OF ASTM F477.
- SEE GENERAL EROSION CONTROL NOTES ON THE EROSION CONTROL DETAIL SHEET.
- PROVIDE INLET PROTECTION BARRIERS AROUND ALL EXISTING AND PROPOSED STORM DRAINAGE INLETS AS SHOWN AND MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED.
- INSPECT EROSION & SEDIMENT CONTROL DEVICES AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/2 THE STRUCTURE HEIGHT.
- CONSTRUCT EROSION CONTROL MAT ON ALL SLOPES STEEPER THAN 3:1.



DATE: MARCH 21, 2000	DESIGNED BY: DAB
SCALE: AS SHOWN	DRAWN BY: DEJ
APPROVED BY: GJM	PROJECT NO.: 1251
FILE NO.: 1251EC.DWG	

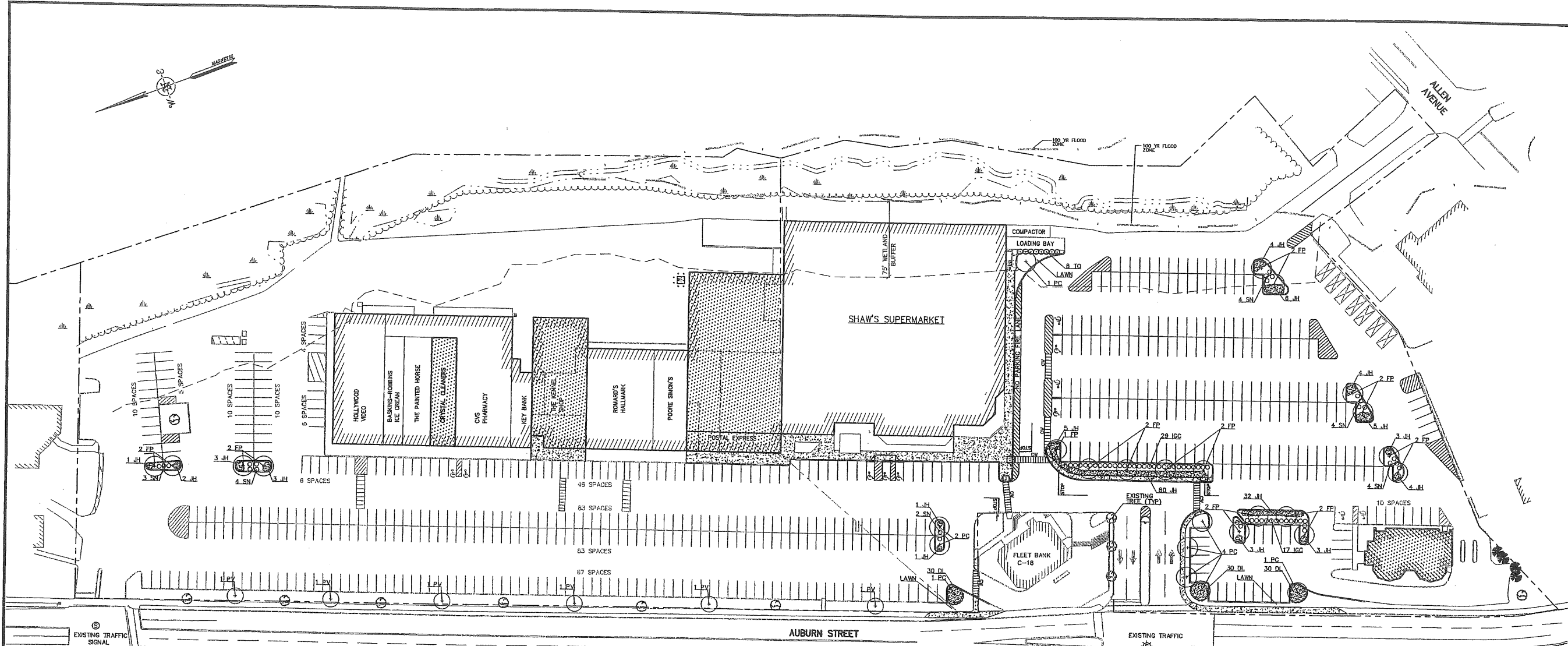
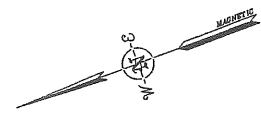
shaws
NORTHGATE PLAZA
PORTLAND, MAINE

Appledore Engineering Inc.
600 State Street, Suite D
Portland, New Hampshire 03901
(603) 433-9898

REVISIONS

No.	Description	Appd	Date

GRADING, DRAINAGE AND EROSION CONTROL

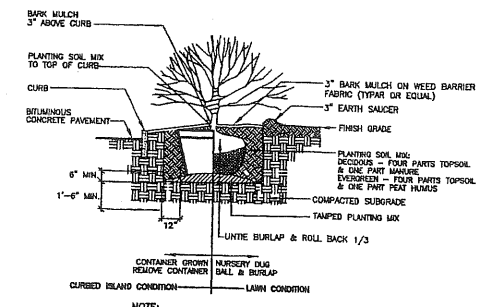


LANDSCAPE NOTES:

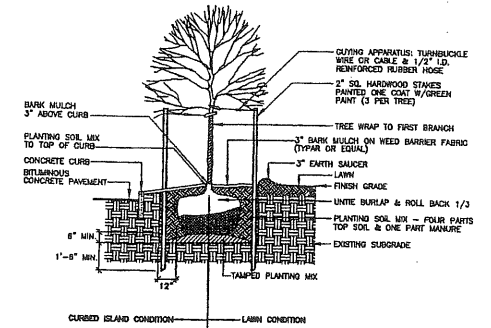
- ALL PLANTS SHALL BE NURSERY GROWN AND PLANTS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS AND SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE AND AFTER PLANTING.
- PLANTS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER INSPECTION AND ACCEPTANCE, AND SHALL HAVE AT LEAST 80% HEALTHY GROWTH AT THE END OF THE GUARANTEE PERIOD.
- ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE FOUR (4) INCH LOAM AND SEED.
- THREE (3) INCH BARK MULCH IS TO BE USED AROUND THE TREE AND SHRUB PLANTING AS SPECIFIED IN DETAILS. WHERE BARK MULCH IS TO BE USED IN A CURBED ISLAND THE BARK MULCH SHALL MEET THE TOP INSIDE EDGE OF THE CURB. ALL OTHER AREAS SHALL RECEIVE FOUR (4) INCHES OF LOAM AND SEED.
- THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING AS SHOWN.
- PARKING AREA PLANTED ISLANDS TO HAVE MINIMUM OF 4" TOPSOIL. REMOVE ALL CONSTRUCTION DEBRIS BEFORE TOPSOILING. TOP SOIL SHALL BE PLACED TO TOP OF CURB.
- ALL PLANT MATERIAL SHALL BE APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE PRIOR TO ARRIVAL ON THE SITE.
- PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE PRIOR TO DIGGING.
- THE CONTRACTOR SHALL LOCATE, VERIFY, AND MARK ALL EXISTING AND NEWLY INSTALLED UNDERGROUND UTILITIES PRIOR TO ANY LAWN WORK OR PLANTING. ANY CONFLICTS WHICH MIGHT OCCUR BETWEEN PLANTING AND UTILITIES SHALL BE IMMEDIATELY REPORTED TO THE OWNER SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.
- NO SUBSTITUTION OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTING AND LAWNS AGAINST DAMAGE FROM ON-GOING CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL ACCEPTANCE OF ALL THE PLANTINGS.
- SEE PLANTING DETAILS FOR WEED BARRIER INFORMATION.
- ALL PLANTING SHALL CONFORM TO THE CITY OF PORTLAND ARBORCULTURAL SPECIFICATIONS AND STANDARDS OF PRACTICE AND LANDSCAPE GUIDELINES.

PLANT SCHEDULE

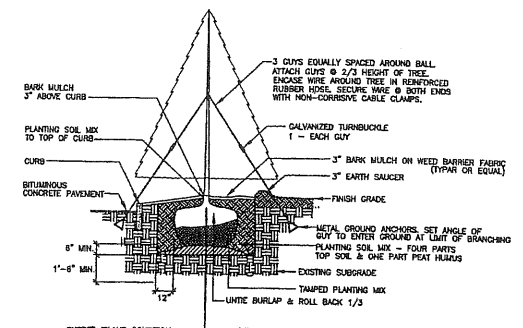
CODE	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
FP	FRAXINUS PENNSYLVANICA 'MARSHALLS'	MARSHALLS SEEDLESS GREEN ASH	3-3 1/2" CALIPER	B&B
PC	PYRUS CALLERYANA 'ARISTOCRAT'	ARISTOCRAT FLOWERING PEAR	3-3 1/2" CALIPER	B&B
PV	PRUNUS VIRGINIANA 'SCHUBERT'	CANADA RED CHERRY	2-2 1/2" CALIPER	B&B
TO	THUJA OCCIDENTALIS NIGRA	DARK AMERICAN ARBORVITAE	6-7' HEIGHT	B&B
IGC	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	2 1/2-3' HEIGHT	CONTAINER
SN	SPIREA NIPPONICA 'SNOWMOUND'	SNOW MOUND SPIREA	2-2 1/2' HEIGHT	CONTAINER
JH	JUNIPERUS HORIZONTALIS 'HUGHES'	HUGHES JUNIPER	12-18" HEIGHT	CONTAINER
DL	HEMEROCALLIS STELLA DORO	STELLA DORO DAYLILY	2 QUART	CONTAINER



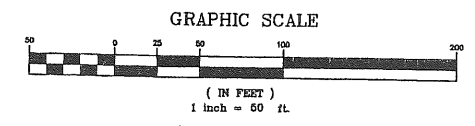
SHRUB PLANTING



DECIDUOUS TREE PLANTING



EVERGREEN TREE PLANTING



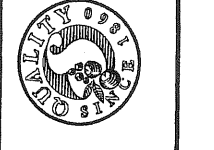
PLANTING DETAILS
NOT TO SCALE

LANDSCAPING PLAN

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 FILE NO.: 1251ECLDNG

Shaw's
 NORTHGATE PLAZA
 PORTLAND, MAINE



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 Portsmouth, New Hampshire 03801
 (603) 438-9818
 eah@ahutran.com

PROJECT NAME AND LOCATION

Show's Supermarket
Autumn Street
Portland, Maine

LATITUDE 43°-42'-09"
LONGITUDE 70°-17'-19"

DESCRIPTION

The project will include demolishing and renovating existing buildings, reconfiguring an existing parking area and constructing expanded building areas on a 13.1 acre site.
The work is anticipated to start in Summer 2000 and be completed by Spring 2001.

SOIL CHARACTERISTICS

The existing site is an urban area that is extensively developed. The underlying soils consist of silty and clayey marine lacustrine sediment and fill.

DISTURBED AREA

The total area to be disturbed is approximately 3.7 acres.

SEQUENCE OF MAJOR ACTIVITIES

1. Install temporary erosion control haybales and silt fences.
2. Demolish existing buildings and parking areas.
3. Construct new building, utilities and parking fields.
4. When all construction activity is complete and site is stabilized, remove all haybales and silt fences and sediment that has been trapped by these devices.

NAME OF RECEIVING WATERS

The storm water runoff from the site will continue to discharge into Fall Brook, located along the easterly edge of the property. Fall Brook flows southerly and discharges into a tidal flat area known as Back Cove.

EROSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES

Stabilization shall be initiated on all loam stockpiles and disturbed areas where construction activity will not occur for more than twenty one (21) calendar days by the fourteenth (14th) day after construction activity has permanently or temporarily ceased in that area. Stabilization measures to be used include:

- a. Temporary seeding.
- b. Mulching.

During construction, runoff will be diverted around the site with earth dikes, piping or stabilized channels where runoff from the site will be filtered through haybale barriers and silt fences. All storm drain basin inlets shall be provided with flared end sections and trash racks.

The site shall be stabilized for the winter by November 15.

INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES OF EROSION AND SEDIMENT CONTROLS

A. GENERAL

These are the general inspection and maintenance practices that will be used to implement the plan.

- o The smallest practical portion of the site will be denuded at one time.
- o All control measures will be inspected at least once each week and following any storm event of 1 inch or greater.
- o All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of report.
- o Built up sediment will be removed from silt fence or haybale barriers when it has reached one third the height of the fence or bale.
- o All diversion dikes will be inspected and any breaches promptly repaired.
- o Temporary seeding and planting will be inspected for bare spots, washouts, and unhealthy growth.
- o A maintenance inspection report will be made after each inspection.
- o The Contractor will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance report.

B. FILTERS

1. Silt Fence

- a. Synthetic filter fabric shall be a pervious sheet of propylene, nylon, polyester or ethylene yarn and shall be certified by the manufacturer or supplier as conforming to the following requirements:

Physical Property	Test	Requirements
Filtering Efficiency	VTM-51	75% minimum
Tensile Strength at 20% Maximum Elongation*	VTM-52	Extra Strength 50 lb/lin in (min) Standard Strength 30 lb/lin in (min)
Flow Rate	VTM-51	0.3 gal/sf/min (min)

* Requirements reduced by 50 percent after six (6) months of installation.

Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six (6) months of expected usable construction life at a temperature range of 0 degrees F to 120 Degrees F.

- b. The height of a silt fence shall not exceed thirty-six (36) inches.
- c. The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced together only at support post, with a minimum six (6) inch overlap, and securely sealed.
- d. Posts shall be spaced a maximum of ten (10) feet apart at the barrier location and driven securely into the ground (minimum of 18 inches). When extra strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet.
- e. Posts for all fences shall be either 4-inch diameter wood or 1.33 pounds per linear foot steel with a minimum length of 5 feet. Steel posts shall have projections for fastening wire to them.
- f. Wire fence reinforcement for silt fences using standard strength filter cloth shall be a minimum of 42 inches in height, a minimum of 14 gauge and shall have a maximum mesh spacing of 6 inches.
- g. A trench shall be excavated approximately four (4) inches wide and four (4) inches deep along the line of posts and upslope from the barrier.
- h. When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least one (1) inch long, the wires or hog rings. The wire shall extend no more than 36 inches above the original ground surfaces.
- i. The "standard strength" filter fabric shall be stapled or wired to the fence, and eight (8) inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36 inches above the original ground surface. Filter fabric shall not be stapled to existing trees.

- j. When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of Item (i) applying.

- k. The trench shall be backfilled and the soil compacted over the filter fabric.

- l. Silt fences shall be removed when they have served their useful purpose, but not before the upslope areas has been permanently stabilized.

2. Sequence of Installation

Sediment barriers shall be installed prior to any soil disturbance of the contributing drainage area above them.

3. Maintenance

- a. Straw/hay bale barrier and silt fence barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. They shall be repaired if there are any signs of erosion or sedimentation below them. Any required repairs shall be made immediately. If there are signs of undercutting at the center or the edges, or impounding of large volumes of water behind them, sediment barriers shall be replaced with a temporary check dam.
- b. Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier still is necessary, the fabric shall be replaced promptly.
- c. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one third (1/3) the height of the barrier.
- d. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

C. MULCHING

1. Timing

In order for mulch to be effective, it must be in place prior to major storm events. There are two (2) types of standards which shall be used to assure this.

- a. Apply mulch prior to any storm event. It will be necessary to closely monitor weather predictions, usually by contacting the National Weather Service in Concord, to have adequate warning of significant storms.

- b. Required Mulching within a specified time period. The time period can range from 14 to 21 days of inactivity on a area, the length of time varying with site conditions. Professional judgement shall be used to evaluate the interaction of site conditions (soil erodibility, season of year, extent of disturbance, proximity to sensitive resources, etc.) and the potential impact of erosion on adjacent areas to choose an appropriate time restriction.

2. Application Rate

Mulch shall be applied at a rate of between 1.5 to 2 tons per acre, or 90 to 100 pounds per 1000 square feet.

3. Guidelines for Winter Mulch Application

When mulch is applied to provide protection over winter (past the growing season) it shall be at a rate of 6,000 pounds of hay or straw per acre. A lockifier may be added to the mulch.

4. Maintenance

All mulches must be inspected periodically, in particular after rainstorms, to check for soil erosion. If less than 90% of the soil surface is covered by mulch, additional mulch shall be immediately applied.

5. Excelsior Matting

Excelsior Matting shall be used in place of mulch on all slopes steeper than 3:1.

D. TEMPORARY GRASS COVER

1. Seedbed Preparation

Apply fertilizer at the rate of 600 pounds per acre of 10-10-10. Apply limestone (equivalent to 50 percent calcium plus magnesium oxide) at a rate of three (3) tons per acre.

2. Seeding

- a. Utilize annual rye grass at a rate of 40 lbs/acre.
- b. Where the soil has been compacted by construction operations, loosen soil to a depth of two (2) inches before applying fertilizer, lime and seed.
- c. Apply seed uniformly by hand, cyclone seeder, or hydroseeder (slurry including seed and fertilizer). Hydroseedings, which include mulch, may be left on soil surface. Seeding rates must be increased 10% when hydroseeding.

3. Maintenance

Temporary seedings shall be periodically inspected. At a minimum, 95% of the soil surface should be covered by vegetation. If any evidence of erosion or sedimentation is apparent, repairs shall be made and other temporary measures used in the interim (mulch, filter barriers, check dams, etc.).

E. STORM DRAIN INLET PROTECTION

1. Straw/Hay Bale Inlet Structure

- a. Bales shall be either wire bound or string tied with the bindings oriented around the sides rather than over and under the bales.
- b. Bales shall be placed lengthwise in a single row surrounding the inlet, with the ends of adjacent bales pressed together.
- c. The filter barrier shall be entrenched and backfilled. A trench shall be excavated around the inlet the width of bale to a minimum depth of four (4) inches. After the bales are staked, the excavated soil shall be backfilled and compacted against the filter barrier.
- d. Each bale shall be securely anchored and held in place by at least two (2) stakes or rebar driven through the bale.
- e. Loose straw/hay shall be wedged between bales to prevent water from entering between bales.
- f. All structures should be inspected after every rainstorm and repairs made as necessary.
- g. Sediment should be removed from the devices after the sediment has reached a maximum of one-third the depth of the trap.
- h. Haybales should be removed and the area repaired as soon as the contributing drainage area to the inlet has been completely stabilized.

F. STABILIZED CONSTRUCTION ENTRANCE

1. Specifications

- a. Aggregate Size: Use two (2) inches stone, or reclaimed or recycled concrete equivalent.
- b. Aggregate thickness: Not less than six (6) inches.
- c. Width: Ten (10) foot minimum, but not less than the full width of points where ingress or egress occurs.
- d. Length: As required, but not less than fifty (50) feet.
- e. Geotextile: To be placed over the entire area to be covered with aggregate. Piping of surface water under entrance shall be provided as required.
- f. Criteria for Geotextile: The fabrics shall be Trevlo Spunbond 1135, Miraf 600x or equal.

2. Maintenance

The entrance shall be maintained in a condition which will prevent tracking of sediment onto the right-of-way. When washing is required, it shall be done on an area stabilized with aggregate which drains into an approved sediment trapping device. All sediment shall be prevented from entering storm drains, ditches, or waterways.

TIMING OF CONTROLS/MEASURES

As indicated in the sequence of Major Activities the haybales and silt fences shall be installed prior to commencing any clearing or grading of the site. Structural controls shall be installed concurrently with the applicable activity. Areas where construction activity temporarily ceases for more than twenty one (21) days will be stabilized with a temporary seed and mulch within fourteen (14) days of the last disturbance. Once construction activity ceases permanently in an area, silt fences and haybale barriers and any earth/dikes will be removed once permanent measures are established.

WASTE DISPOSAL

A. WASTE MATERIALS

All waste materials will be collected and stored in securely lidded receptacles. All trash and construction debris from the site will be deposited in a dumpster. No construction waste materials will be buried on site. All personnel will be instructed regarding the correct procedure for waste disposal by the superintendent.

B. HAZARDOUS WASTE

All hazardous waste materials will be disposed of in the manner specified by local or state regulation or by the manufacturer. Site personnel will be instructed in these practices by the superintendent.

C. SANITARY WASTE

All sanitary waste will be collected from the portable units a minimum of once per week by a licensed sanitary waste management contractor.

SPILL PREVENTION

A. MATERIAL MANAGEMENT PRACTICES

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances during construction to stormwater runoff.

Good Housekeeping:

The following good housekeeping practices will be followed on site during the construction project:

- o An effort will be made to store only sufficient amounts of products to do the job.
- o All materials stored on site will be stored in a neat, orderly manner in their proper (original if possible) containers and, if possible, under a roof or other enclosure.
- o Manufacturer's recommendations for proper use and disposal will be followed.
- o The site superintendent will inspect daily to ensure proper use and disposal of materials.
- o Substances will not be mixed with one another unless recommended by the manufacturer.
- o Whenever possible all of a product will be used up before disposing of the container.

Hazardous Products:

The following practices will be used to reduce the risks associated with hazardous materials:

- o Products will be kept in their original containers unless they are not resealable.
- o Original labels and material safety data will be retained for important product information.
- o Surplus product that must be disposed of will be discarded according to the manufacturer's recommended methods of disposal.

B. PRODUCT SPECIFICATION PRACTICES

The following product specific practices will be followed on site:

Petroleum Products:

All on site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt based substances used on site will be applied according to the manufacturer's recommendations.

Fertilizers:

Fertilizers used will be applied only in the minimum amounts directed by the specifications. Once applied fertilizer will be worked into the soil to limit exposure to stormwater. Storage will be in a covered shed or enclosed trailers. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

Paints:

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system but will be disposed of properly according to manufacturer's instructions or state and local regulations.

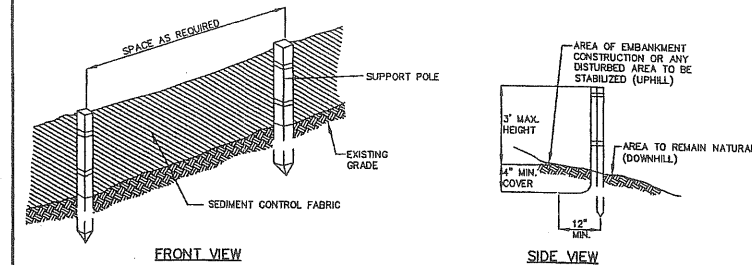
Concrete Trucks:

Concrete trucks will discharge and wash out surplus concrete or drum wash water in a contained area on site.

C. SPILL CONTROL PRACTICES

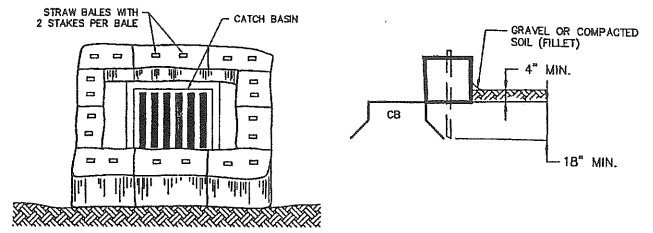
In addition to good housekeeping and material management practices discussed in the previous section the following practices will be followed for spill prevention and cleanup:

- o Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- o Materials and equipment necessary for spill cleanup will be kept in the material storage area on site. Equipment and materials will include but not be limited to brooms, dustpans, mops, rags, gloves, goggles, kitty litter, sand, sawdust and plastic or metal trash containers specifically for this purpose.
- o All spills will be cleaned up immediately after discovery.
- o The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- o Spills of toxic or hazardous material will be reported to the appropriate state or local government agency, regardless of the size.
- o The spill prevention plan will be adjusted to include measures to prevent this type of spill from recurring and how to cleanup the spill if it recurs. A description of the spill, its cause, and the cleanup measures will be included.
- o The site superintendent responsible for day-to-day site operations will be the spill prevention and cleanup coordinator.



NOTE: SEE EROSION CONTROL NOTES FOR MATERIAL, INSTALLATION AND MAINTENANCE REQUIREMENTS.

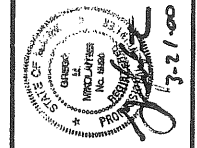
SILT FENCE
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NOTE: SEE EROSION CONTROL NOTES FOR MATERIAL, INSTALLATION AND MAINTENANCE REQUIREMENTS.

HAYBALE INLET PROTECTION
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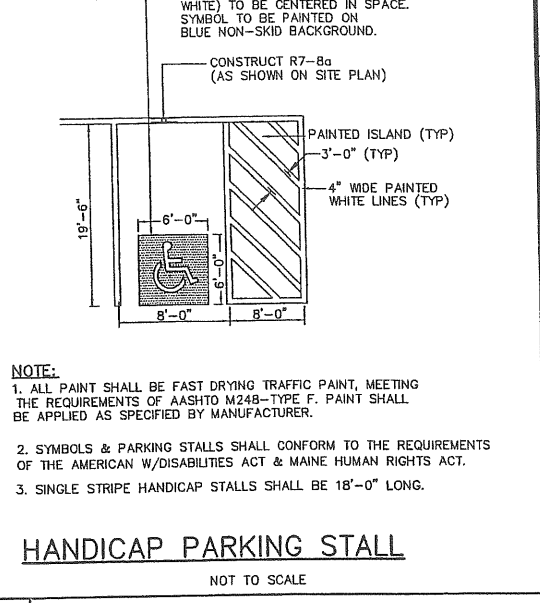
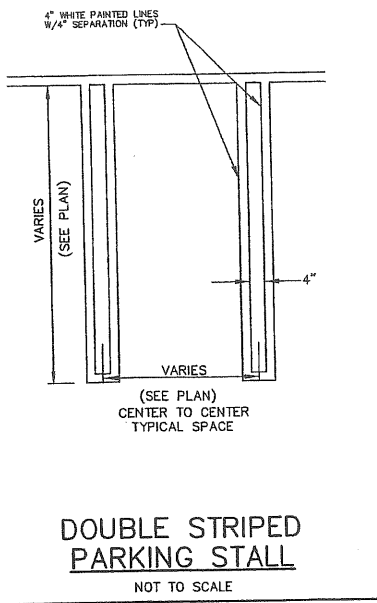
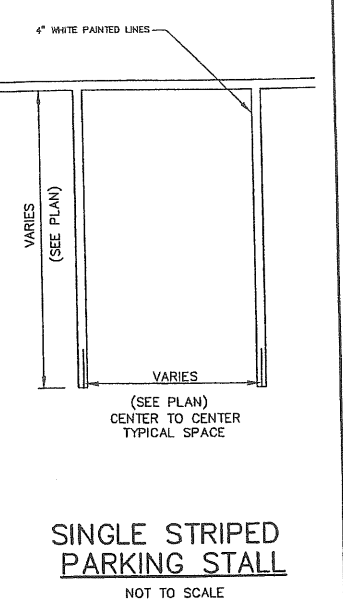
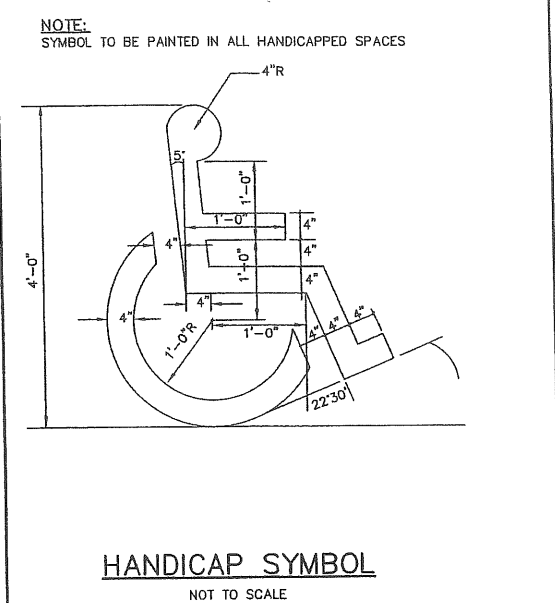
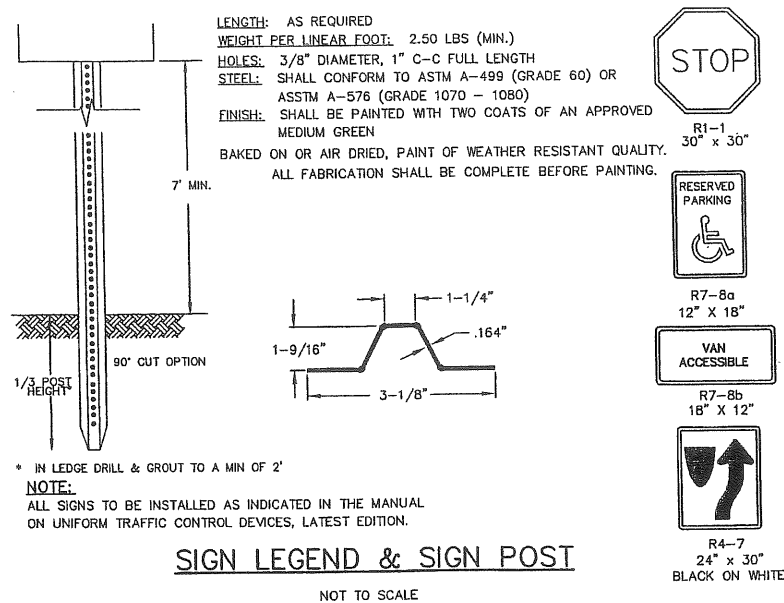
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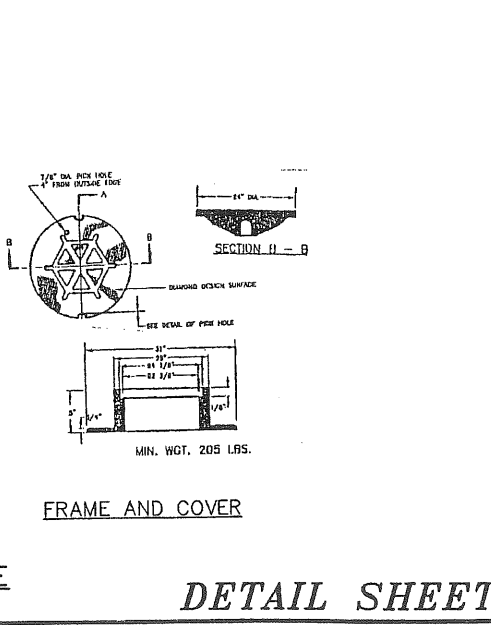
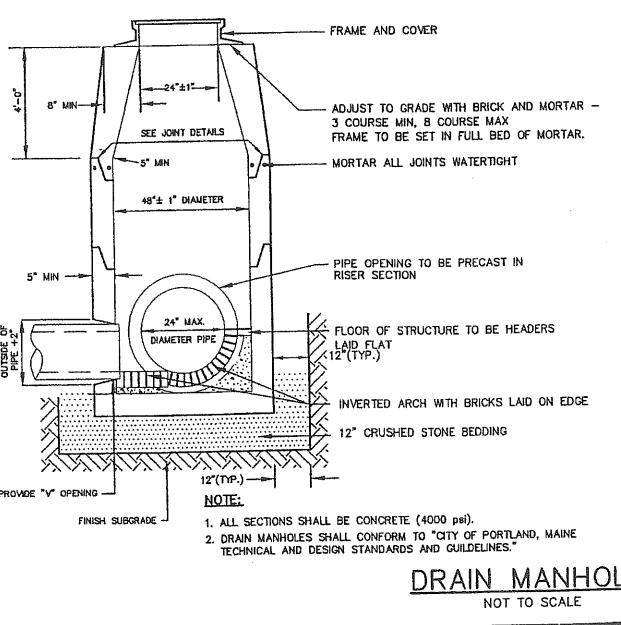
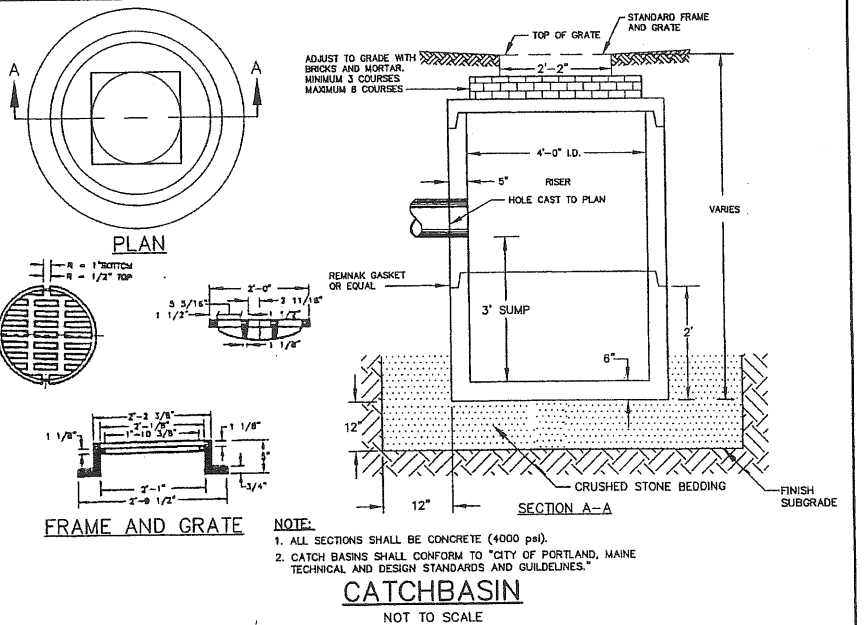
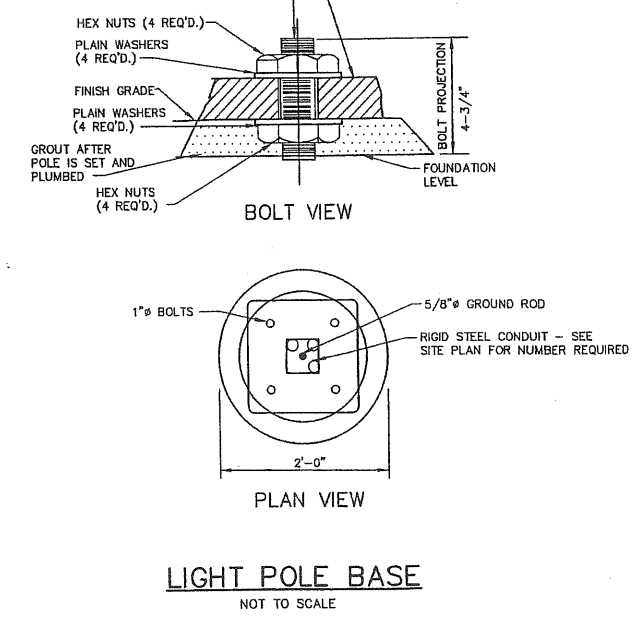
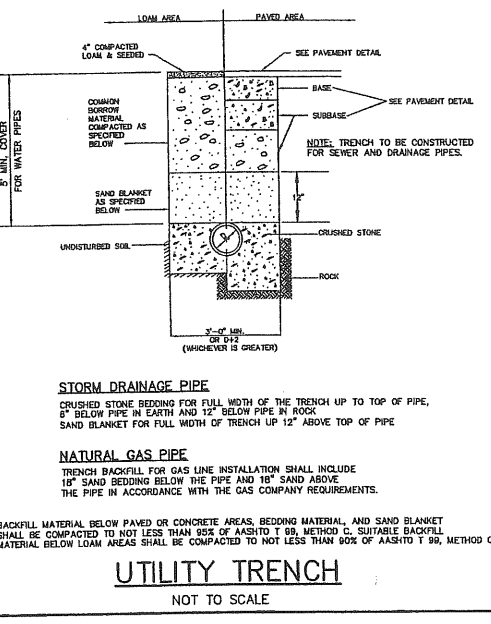
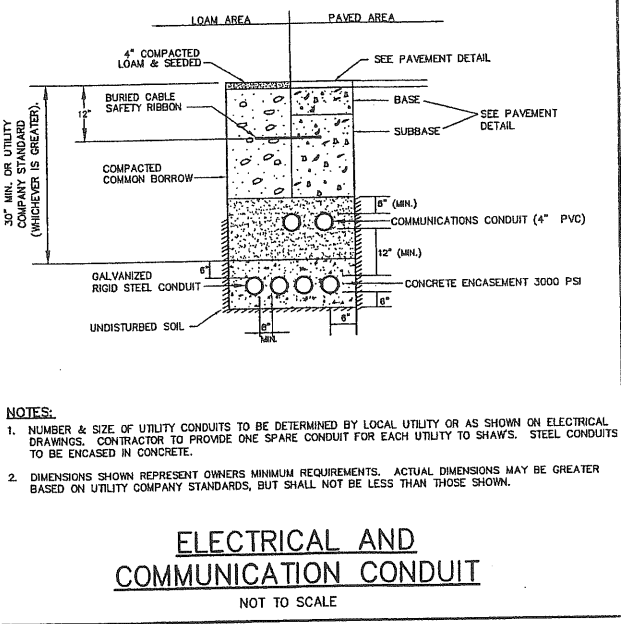
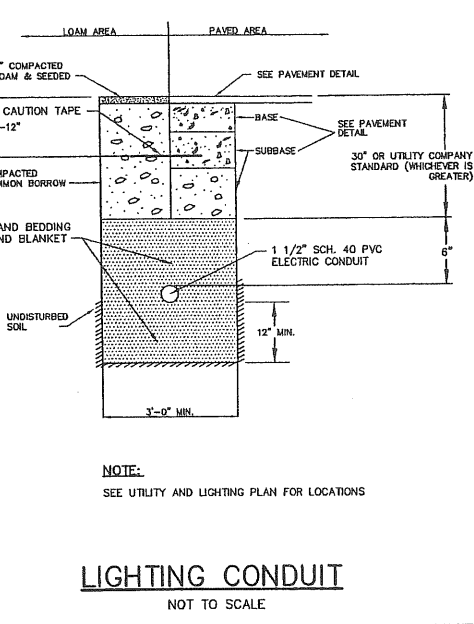
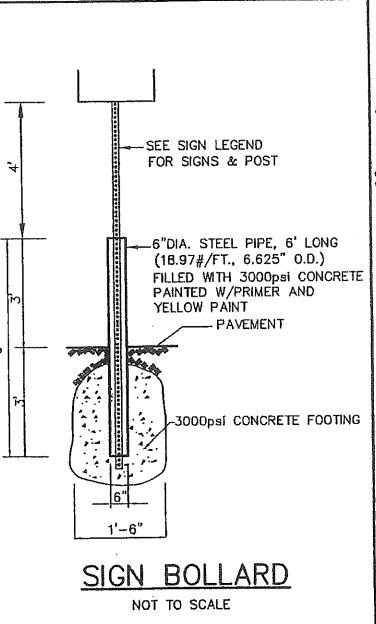
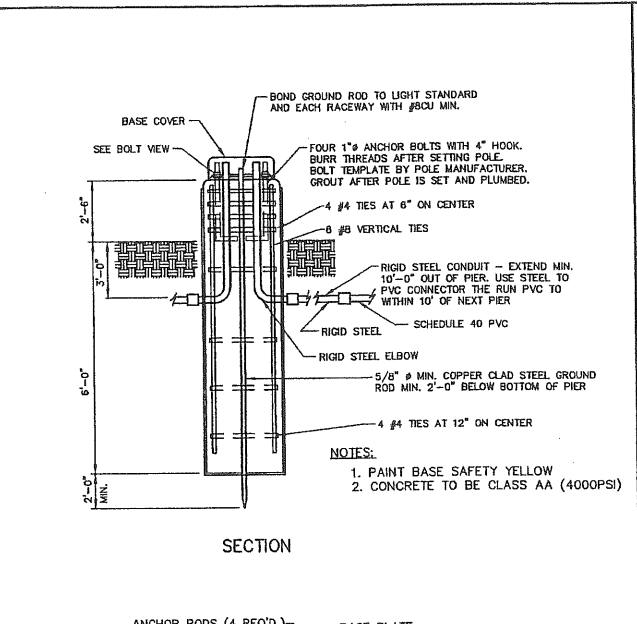


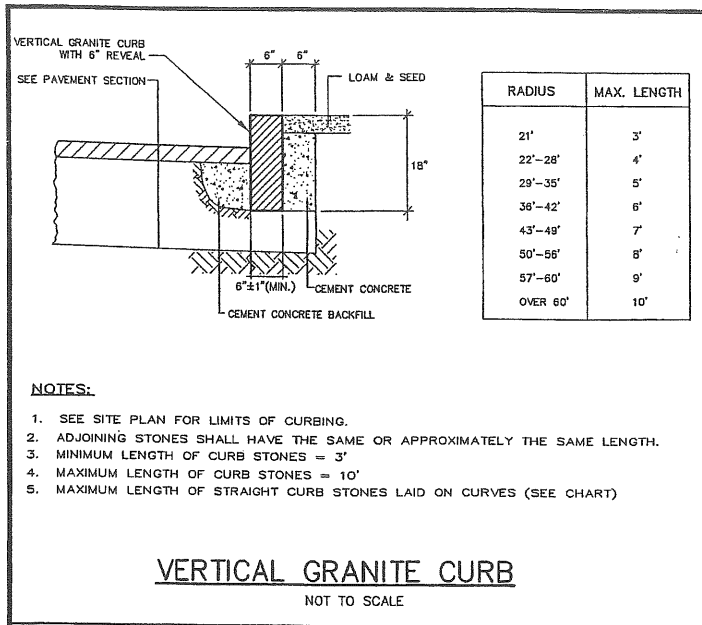
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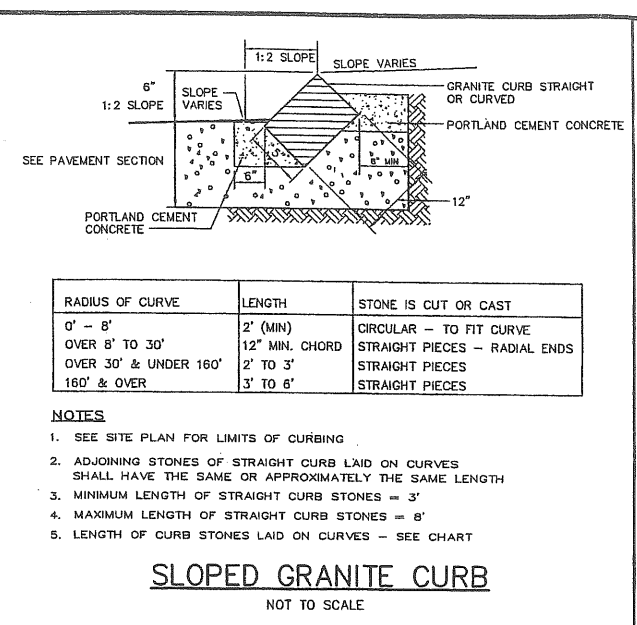
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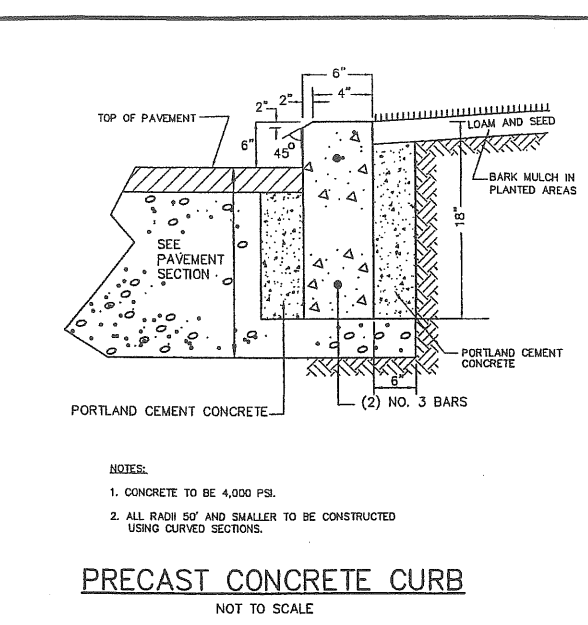
- NOTES:**
- SEE SITE PLAN FOR LIMITS OF CURBING.
 - ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
 - MINIMUM LENGTH OF CURB STONES = 3'
 - MAXIMUM LENGTH OF CURB STONES = 10'
 - MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES (SEE CHART)

VERTICAL GRANITE CURB
NOT TO SCALE



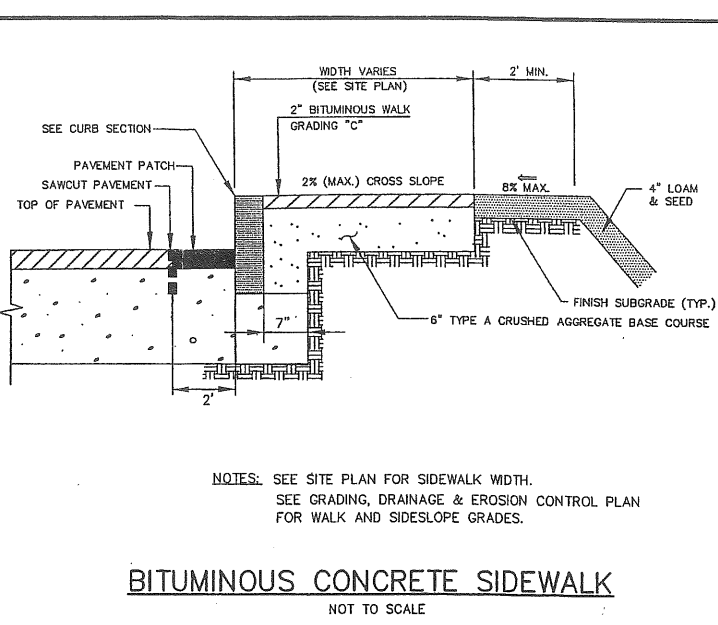
- NOTES:**
- SEE SITE PLAN FOR LIMITS OF CURBING.
 - ADJOINING STONES OF STRAIGHT CURB LAID ON CURVES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
 - MINIMUM LENGTH OF STRAIGHT CURB STONES = 3'
 - MAXIMUM LENGTH OF STRAIGHT CURB STONES = 8'
 - LENGTH OF CURB STONES LAID ON CURVES - SEE CHART

SLOPED GRANITE CURB
NOT TO SCALE



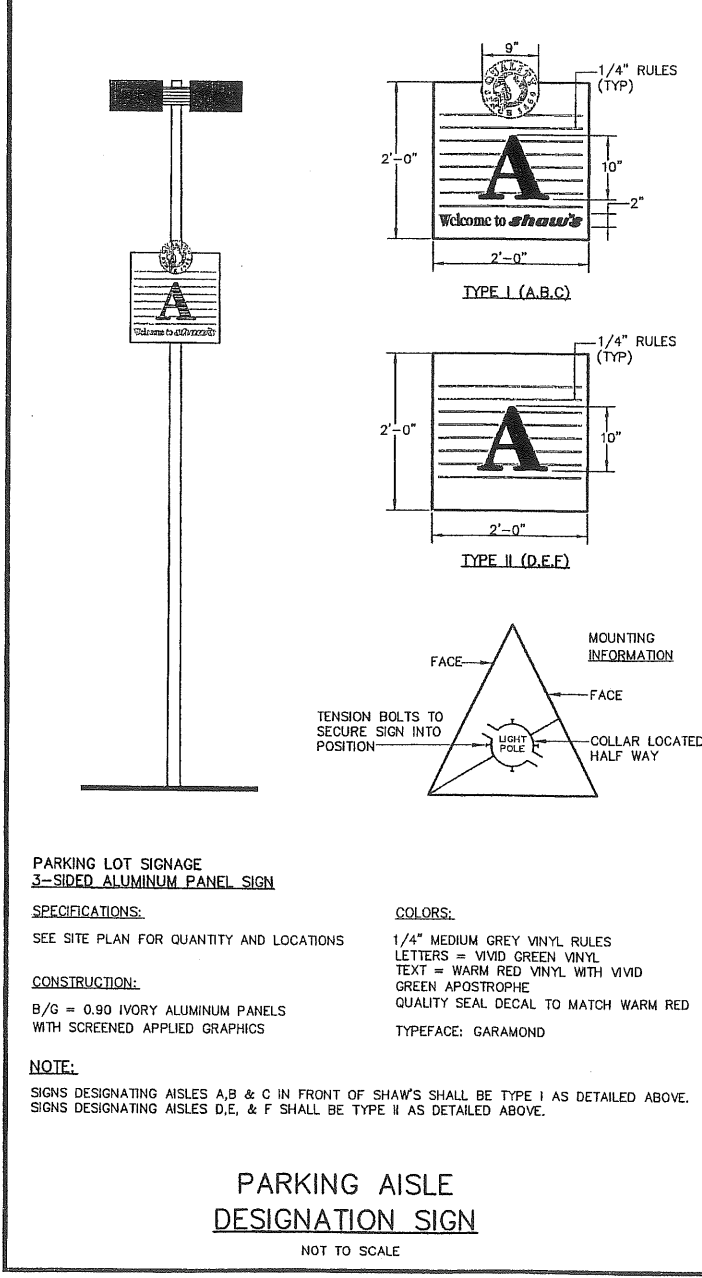
- NOTES:**
- CONCRETE TO BE 4,000 PSI.
 - ALL RADII 50' AND SMALLER TO BE CONSTRUCTED USING CURVED SECTIONS.

PRECAST CONCRETE CURB
NOT TO SCALE

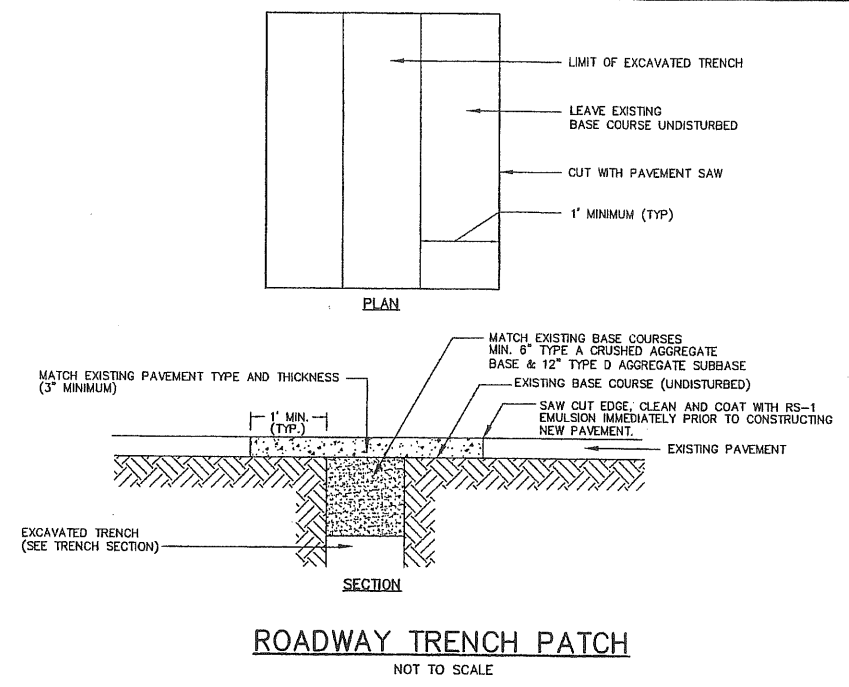


- NOTES:** SEE SITE PLAN FOR SIDEWALK WIDTH. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR WALK AND SIDESLOPE GRADES.

BITUMINOUS CONCRETE SIDEWALK
NOT TO SCALE

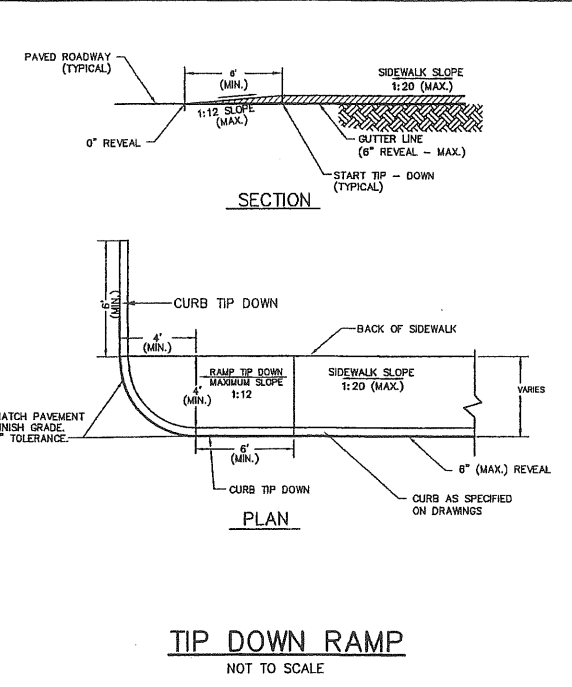


- NOTES:**
- SIGNS DESIGNATING AISLES A,B & C IN FRONT OF SHAW'S SHALL BE TYPE I AS DETAILED ABOVE.
 - SIGNS DESIGNATING AISLES D,E, & F SHALL BE TYPE II AS DETAILED ABOVE.



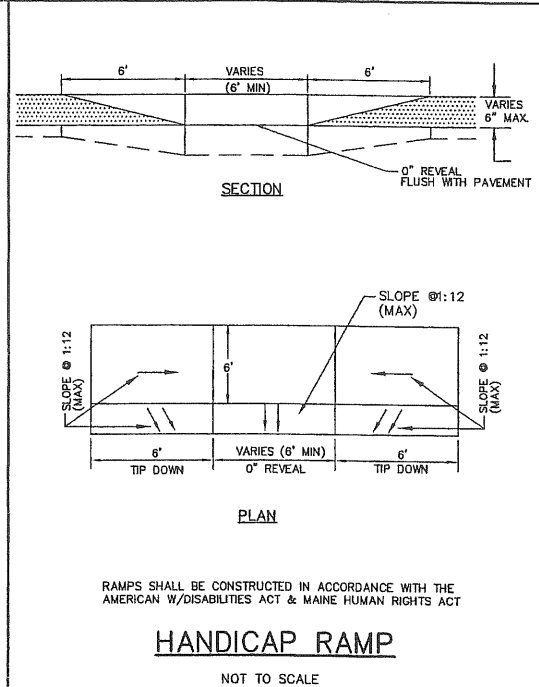
- NOTE:**
- SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION.
 - SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PAVEMENT SLOPE AND CROSS-SLOPE.

STANDARD PAVEMENT SECTION
NOT TO SCALE



- NOTES:**
- SEE TYPICAL PAVEMENT SECTION FOR PAVEMENT AND AGGREGATE BASE AND SUBBASE DEPTHS.
 - TRANSITION SECTION TO BE CONSTRUCTED AT ALL BUILDING ENTRANCES.
 - SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR PAVEMENT SLOPES AND CROSS SLOPES.

CONCRETE SIDEWALK TRANSITION
NOT TO SCALE



DETAIL SHEET

shaw's
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DATE: MARCH 21, 2000
SCALE: AS SHOWN
DESIGNED BY: DAB
DRAWN BY: DEJ
APPROVED BY: GMM
PROJECT NO.: 1251
FILE NO.: 1251DSS.DWG

REVISIONS

3-21-00

C-8