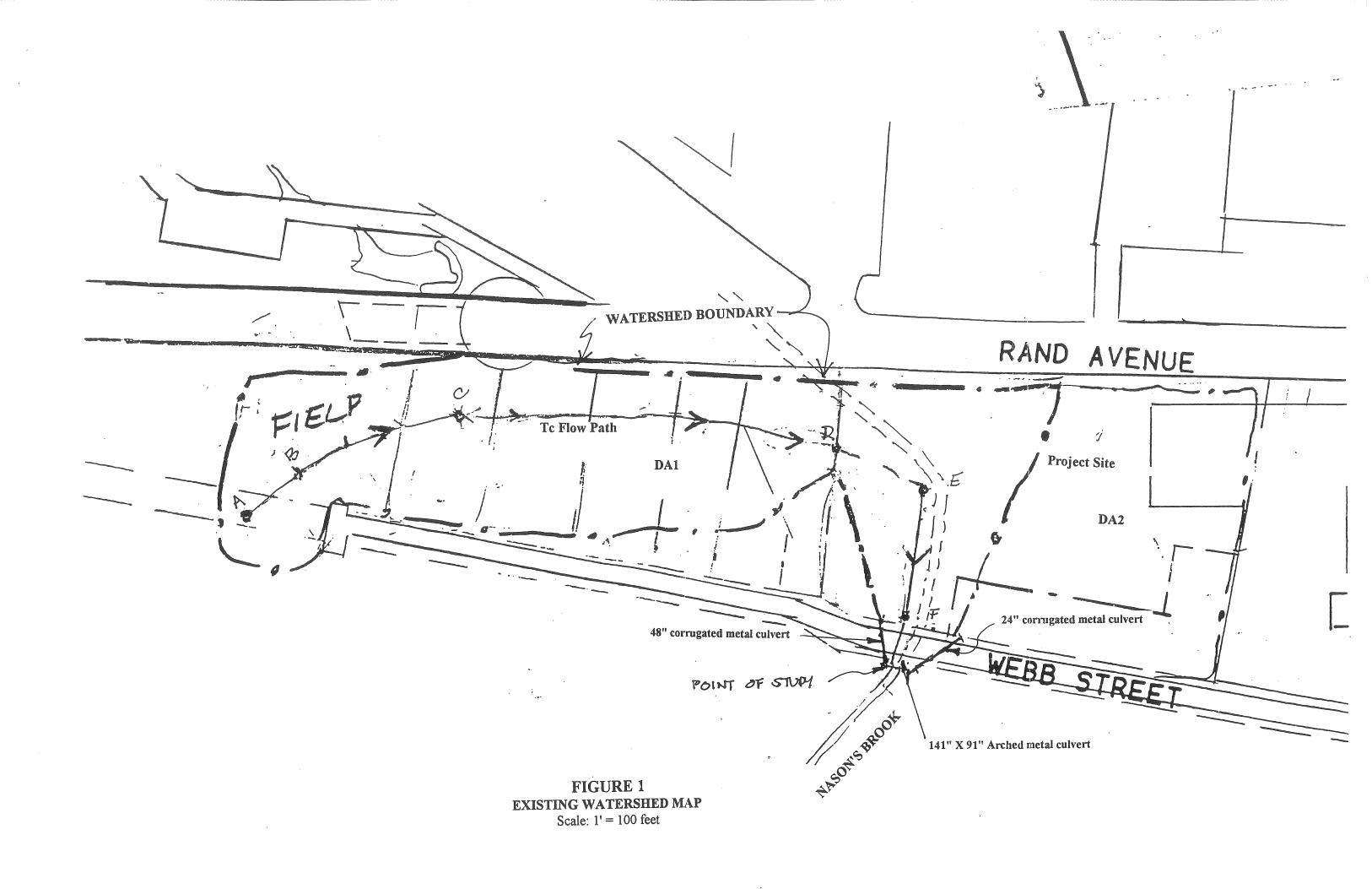
263-B-DA3 1000 Brighton AVE Forest city chery Porest city cherrolet Porest city cherrolet 1000 Brighton Ne, Portland, ME



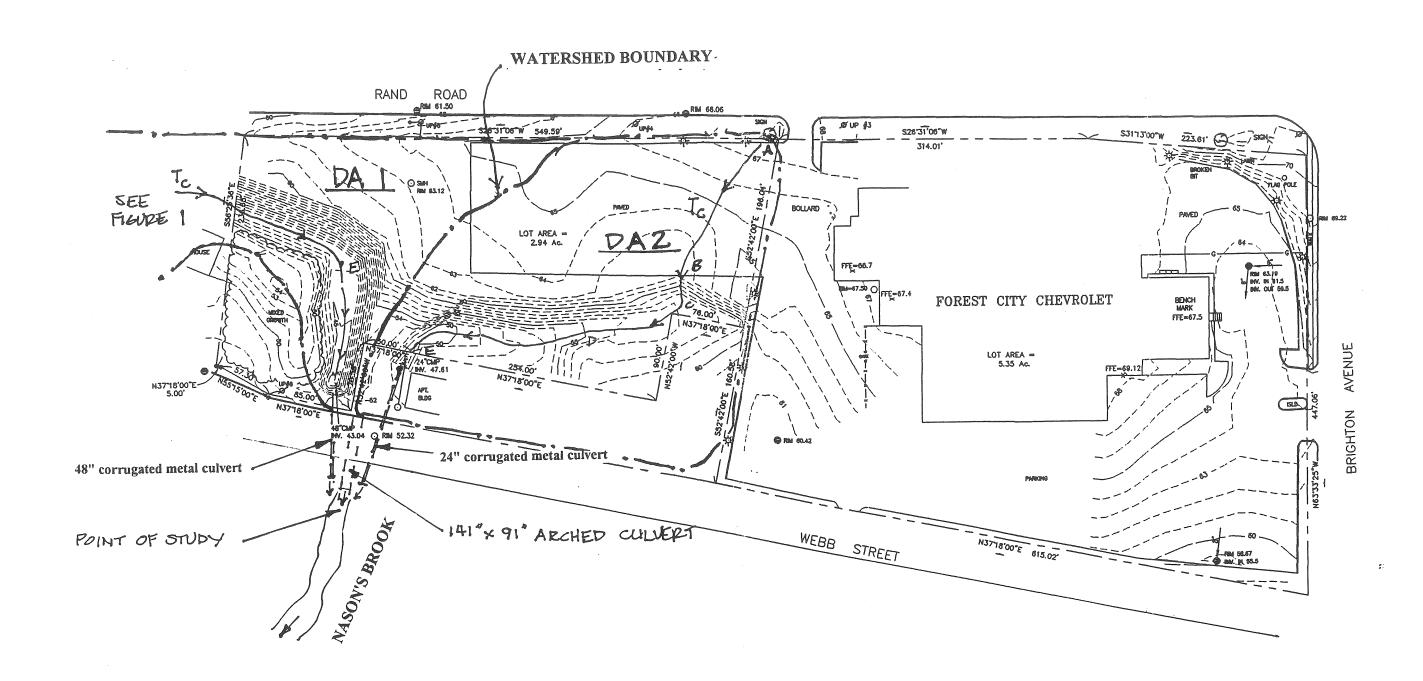


FIGURE 2
EXISTING WATERSHED MAP

Scale: 1' = 100 feet

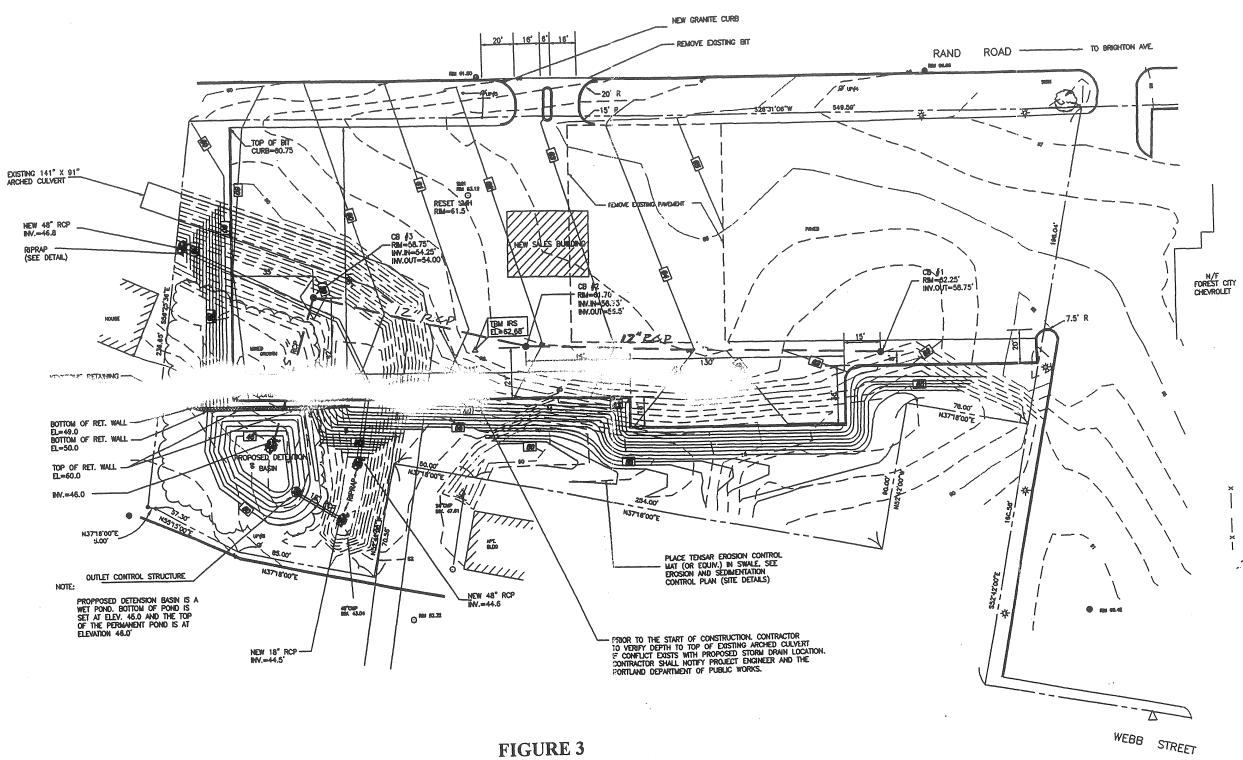


FIGURE 3
SITE AND GRADING PLAN
Scale: 1' = 60 feet

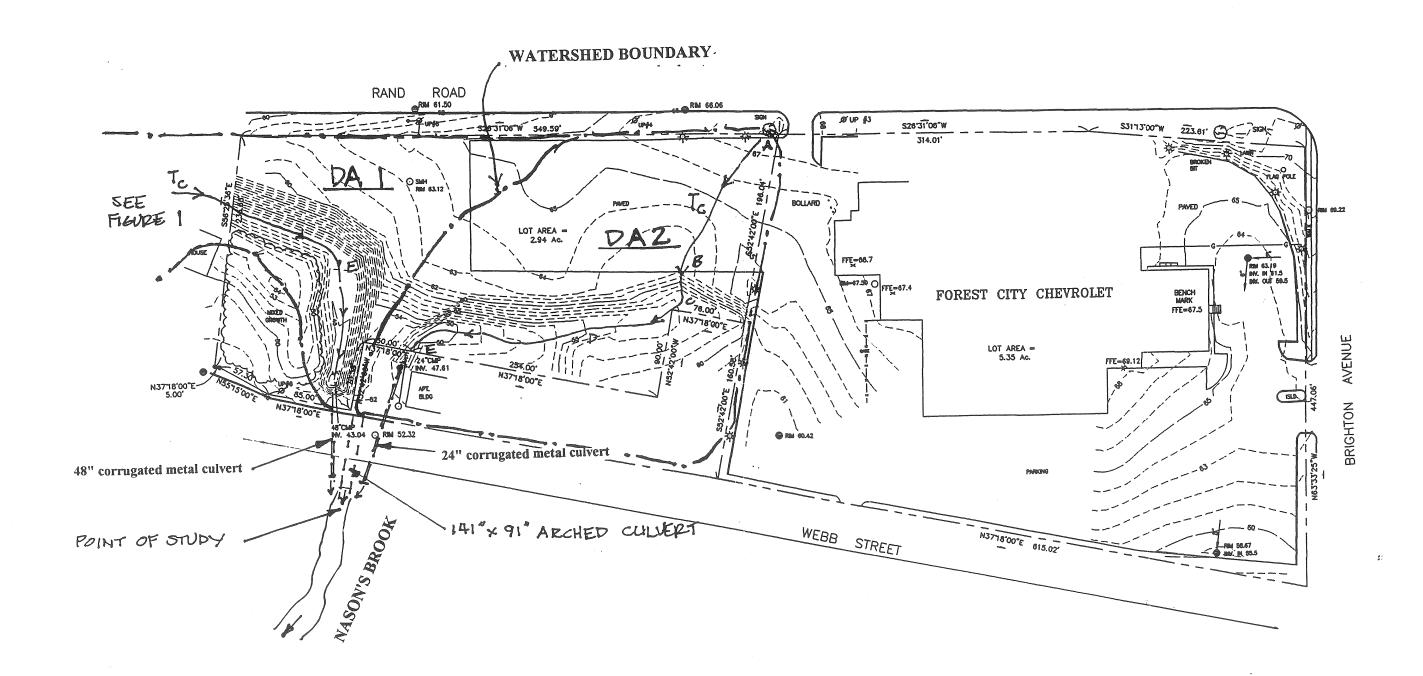
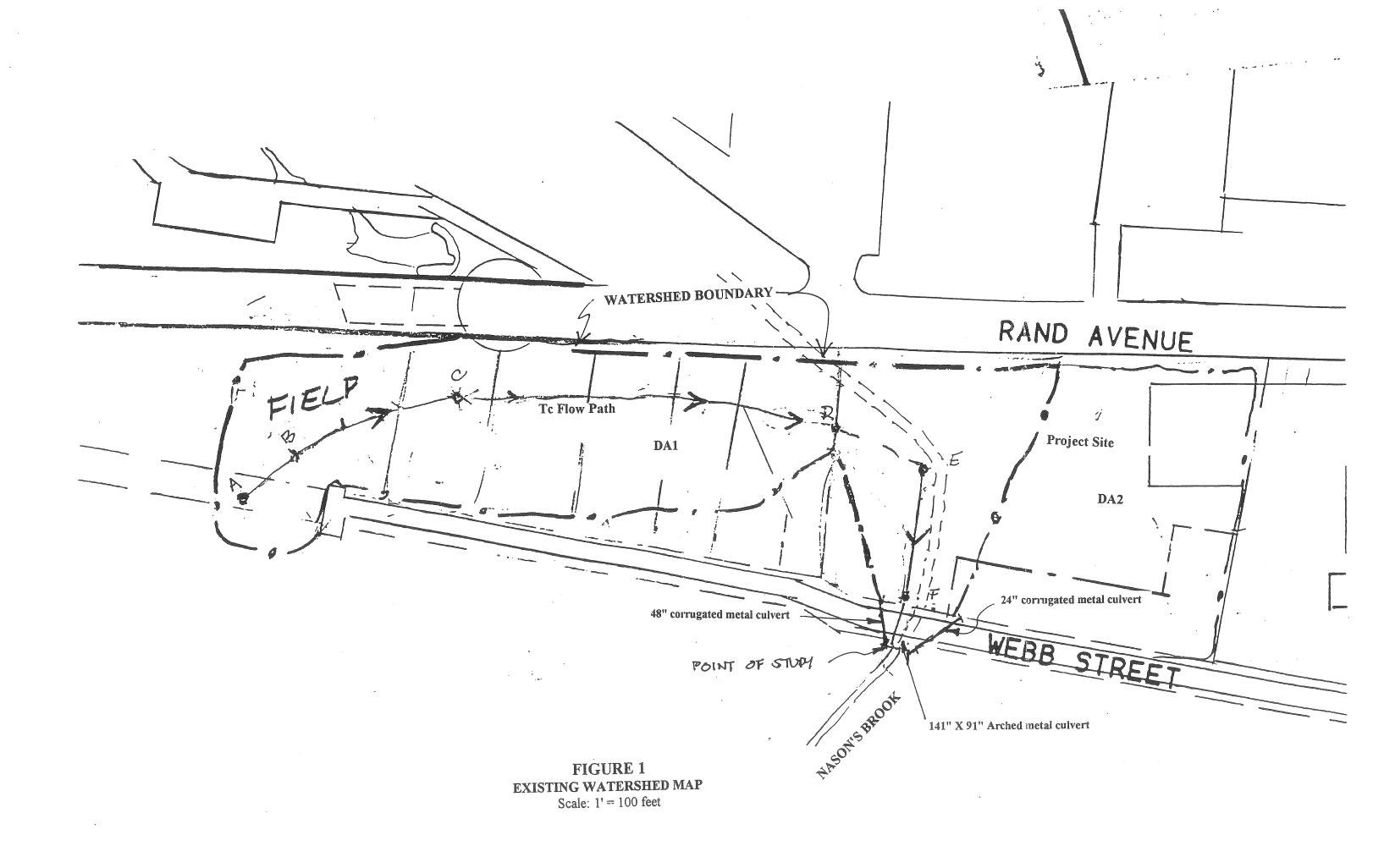


FIGURE 2
EXISTING WATERSHED MAP
Scale: 1' = 100 feet



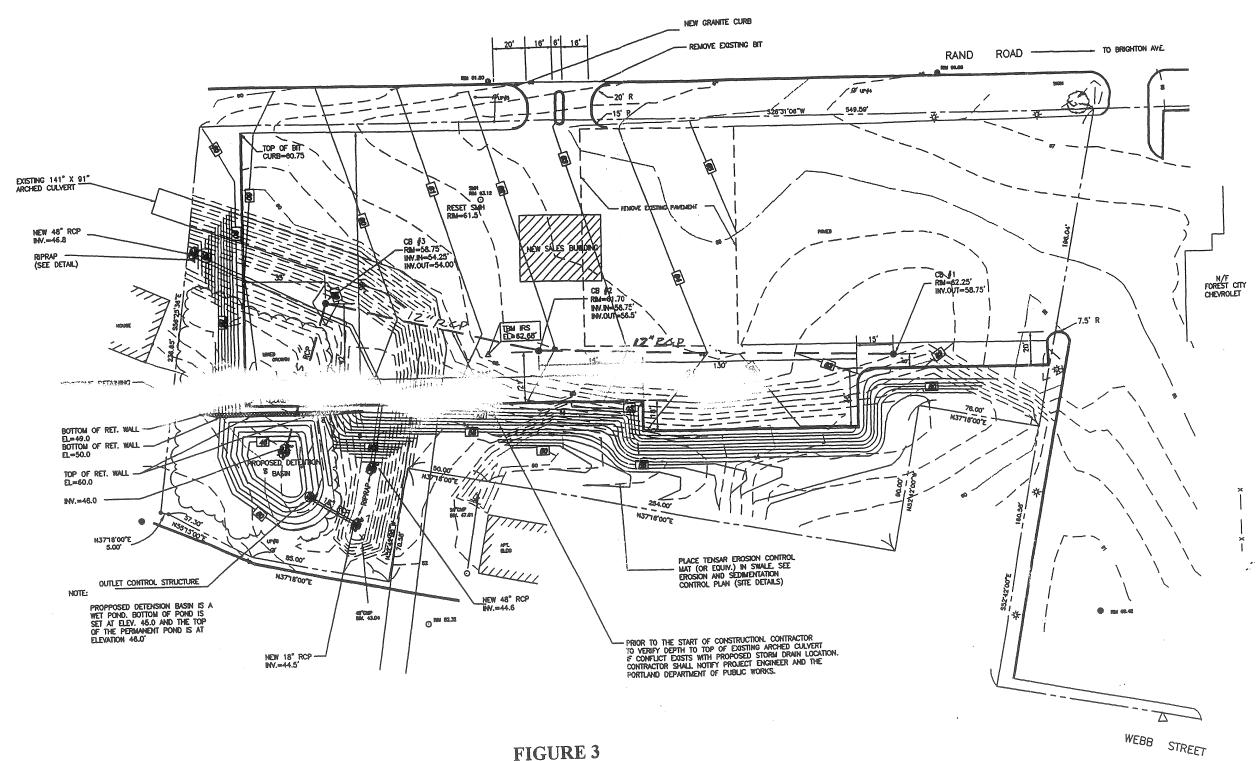
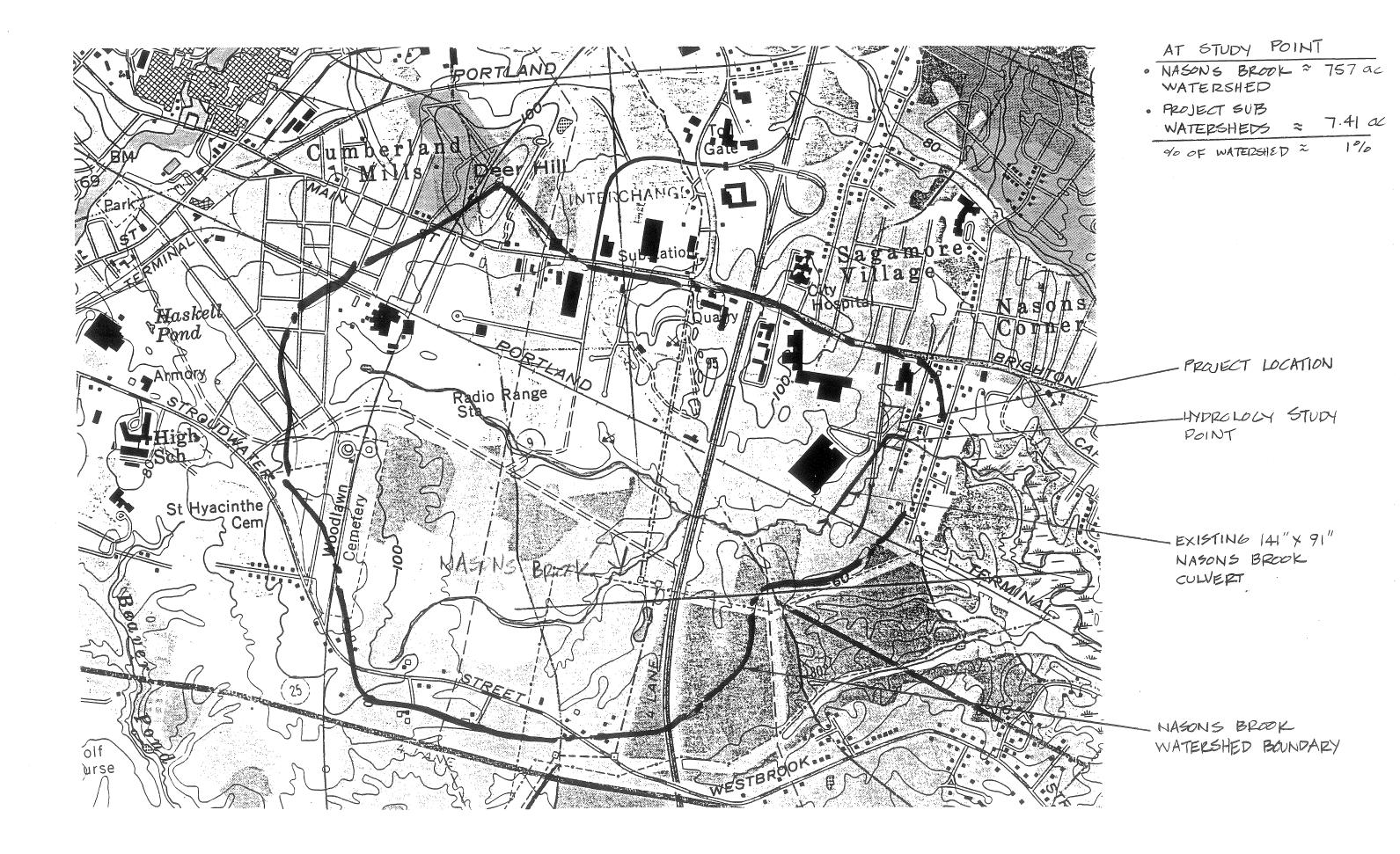
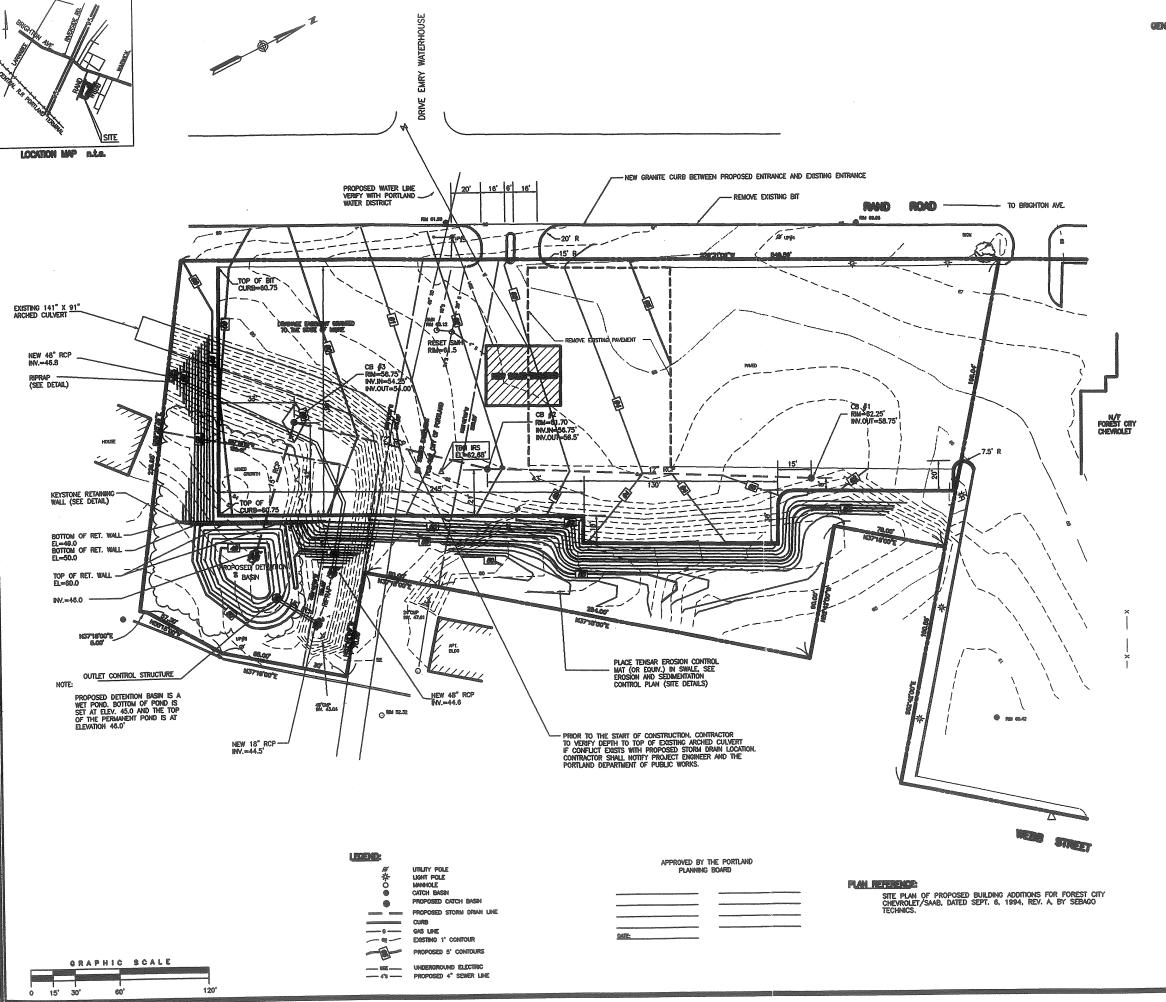


FIGURE 3
SITE AND GRADING PLAN
Scale: 1' = 60 feet





### 

- 1. PROJECT PARCEL IS DEPICTED AS LOT 40 ON CITY OF PORTLAND ASSESSORS MAP \$283.
- 2. TOTAL AMEA OF PROJECT PARCEL IS 2.04 ACRES.
- 3. RECORD OWNER OF PROPERTY IS ALICE GENNER ENT.
- 4. THE PROJECT AREA IS LEASED TO POREST CITY CHEVROLET/SAMB BY ALICE CEDALER DITEMPRISES.
- 5. PROJECT IS LOCATED WITHIN THE B-2 ZONE.
- 6. SPACE AND BULK REQUIREMENTS
  - MIN. FRONT SETBACK: MIN. REAR SETBACK:
- 7. PERCENT IMPERMOUS AREA CALCULATIONS

TOTAL AREA OF PARCEL = 2.06 AC.
TOTAL AREA OF IMPERMOUS SURFACE = 2.02 AC.

- 8. PRIOR TO THE START OF CONSTRUCTION THE CONTINCTOR SHALL REVIEW THE EROSION AND SEDMENTATION CONTROL REQUIREMENTS ON SHEET 2, SITE DETAILS.
- 9. LOCATION OF UTILITIES ARE APPROXIMATE.
- 10. IT SWILL BE THE COMMACTOR'S RESPONSERINY TO HAVE ALL THE UTILITIES LOCKIE THEIR SERVICES PRIOR TO THE STATE OF THE CONSTRUCTION.
- 11. PRIOR TO THE GEODORIS OF THE CONSTRUCTION, THE CONTRACTOR SHALL SECURE A STREET OPENING PERMIT FROM THE PORTLAND PARIS AND PUBLIC WORKS DEPARTMENT.
- 12. Property markers and street line monuments shall be properly protected and shall not be disturbed. If disturbed, they shall be replaced by a licensed surveyor at the contractor's expense.
- 13. ALL EXISTING CATCH BASINS, MANHOLES, CONDECTIONS, AND OUTLET PIPING SHALL BE CLEANED AND LEFT IN SATISFACTORY OFFENDING CONDITION AFTER CONSTRUCTION HAS BEEN COMPLETED.
- ALL LAWN AREAS, WALCHOYS, AND DRIVEWAYS OUTSIDE THE WORK AREA, DAMAGED BY THE CONTRACTOR, SHALL BE REPARRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL TREES AND SHRUBS ON THE PROJECT WHICH ARE NOT TO BE REMOVED.
- 16. EXISTING PAREMENT SHALL BE SAW CUT AND BUTTED TO THE NEW PAREMENT. NO FEATHERING OF PAREMENT WILL PERMITTED.
- 17. DOSTING DIMINAGE STRUCTURES SHALL NOT BE DISTURBED UNLESS OTHERWISE NOTED
- 18. TOPOGRAPHIC INFORMATION IS BASED ON SURVEYS BY ORIEN HASGELL, INC., AND IS IN CONFORMANCE WITH THE STOTE OF MARIE BOAND OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS SUMMANDS OF PRACTICE, CARBORY 1, CONDITION B.
- 19. BENCHMARK:

  A. FRIESHED FLOOR ELEMATION AT FRONT ENTRANCE OF FOREST CITY CHEVROLET
  AS FUELLENED ON FLON REFERENCE.
  B. BRON ROD SET (5/8" REBIN) WITH SURVEY CAP AS DEPICTED ON FLAN WITH
  ELEMATION OF 82.08".
- 20. CONTINCTOR SHALL VERTY ALL DIMENSIONS AND GRADES ON THE GROUND, ANY DISCHEMANCES SHALL BE REPORTED BIMEDIATELY TO THE PROJECT ENGINEER FOR DIRECTION AND RESOLUTION PRIOR TO ANY FURTHER WORK.
- 21. EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND ARE DASED ON THE UTILITY CHARLIS RECORDS, ROAM, PLANS, AND FELD SURVEY.
  CONTRECTOR SHALL CONTACT DIG SAPE AT LEIST THREE (3) BUT NOT
  MORE THAN THRITY (30) DAYS PRIOR TO COMMENCEMENT OF EXCANDION TO VEHIFY HORIZONTAL
  AND VERTICAL LOCATION OF ALL UTILITIES. CONTINCTOR SHALL BE RESPONSIBLE FOR
  COMPLIANCE WITH THE REQUIREMENTS OF 23 MSRA 3380—A.
- 22. LOCATION OF UTILITY STRUCTURES AND INVESTS OF PIPED UTILITIES MAY BE ADJUSTED TO MEET FIELD CONDITIONS. ONLY AFTER APPROVAL OF THE OWNER, THE AFFECTED UTILITY COMPANY AND THE CITY OF PORTLAND.
- 23. CONTRACTOR SHALL THOROUGHLY FAMILIARZE HIMSELF WITH ALL SITE CONDITIONS PRIOR TO CONSTRUCTION BEDDONS.
- 24. DO NOT SCALE FROM DIMINIOS. ANY CARSSIONS IN DIMENSIONING SHALL BE REPORTED BAMEDATELY TO THE PROJECT ENGINEER. ANY DISCREPANCES BETWEEN DRAWINGS, DETAILS, NOTES AND SPECS SHALL BE BAMEDIATELY REPORTED THE PROJECT ENGINEER FOR FURTHER RESOLUTION BEFORE ANY ADDITIONAL WORK PROCEEDS.

REV.1 6-4-97 MISC CHANGES

ek No. 803

# SITE AND GRADING PLAN

PROPOSED AUTO SALES LOT PAND BOAD, PORTLAND MOE FOR

FOREST CITY CHEVROLET 1000 BRIGHTON AVE. PORTLAND, MAINE

ENGINEERING & DESIGN STEPHEN W. TEBETTS, P.E. PROFESSIONAL CASE ENGINEER (2017) 725-2867

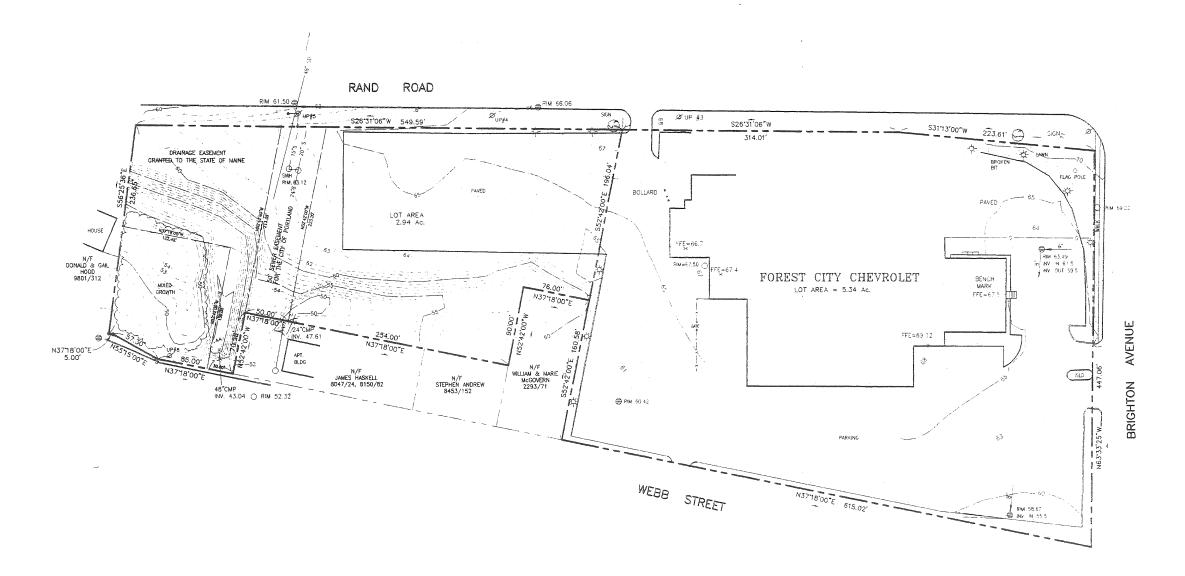


PROFESSIONAL LAND SURVEYORS Drum By DAB Job No. 97058P Trece By RWC MAY 12, 1997 Check By SWT Dreg. No.

1° = 30'







UTILITY POLE LIGHT POLE MANHOLE CATCH BASIN CURB

\_\_\_ 62 \_\_ EXISTING 1' CONTOUR

PLAN REFERENCE:

"SITE PLAN OF PROPOSED BUILDING ADDITIONS FOR FOREST CITY CHEVROLET/SAAB", DATED SEPT. 6, 1994, REV. A, BY SEBAGO TECHNICS.

PROPERTY BOUNDARIES TAKEN FROM PLAN REFERENCE #1



JOHN W SWAN PROFESSIONAL LAND SURVEYOR #1038

DATE:	6-5-97	

48 UNION WHARF, PORTLAND, MAINE OWEN HASKELL, INC.
16 CASCO ST. PORTLAND, ME 04101 (207)774-0424
PROFESSIONAL LAND SURVEYORS

EXISTING CONDITIONS SURVEY

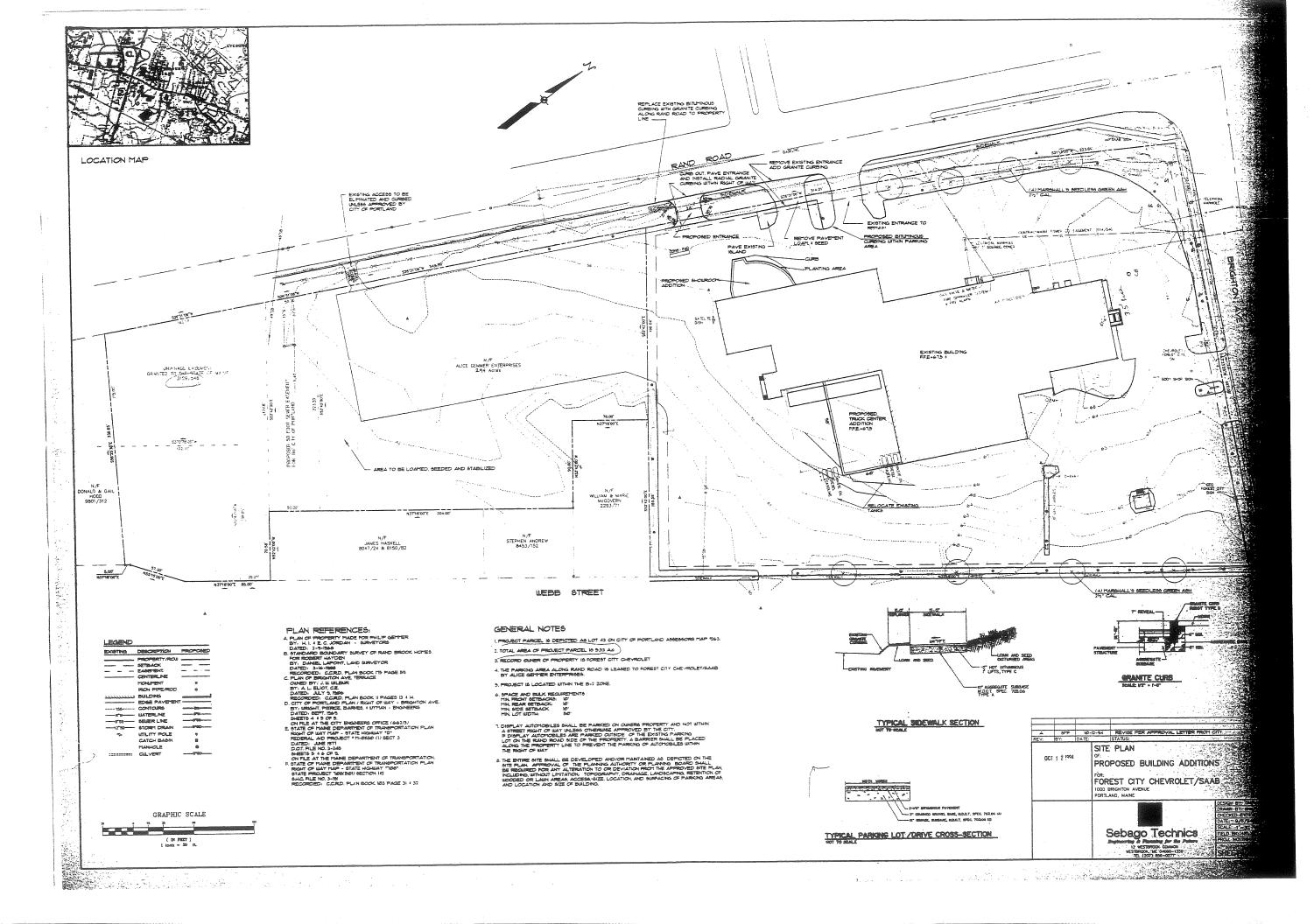
RAND ROAD, BRIGHTON AVENUE & WEBB STREET PORTLAND, MAINE

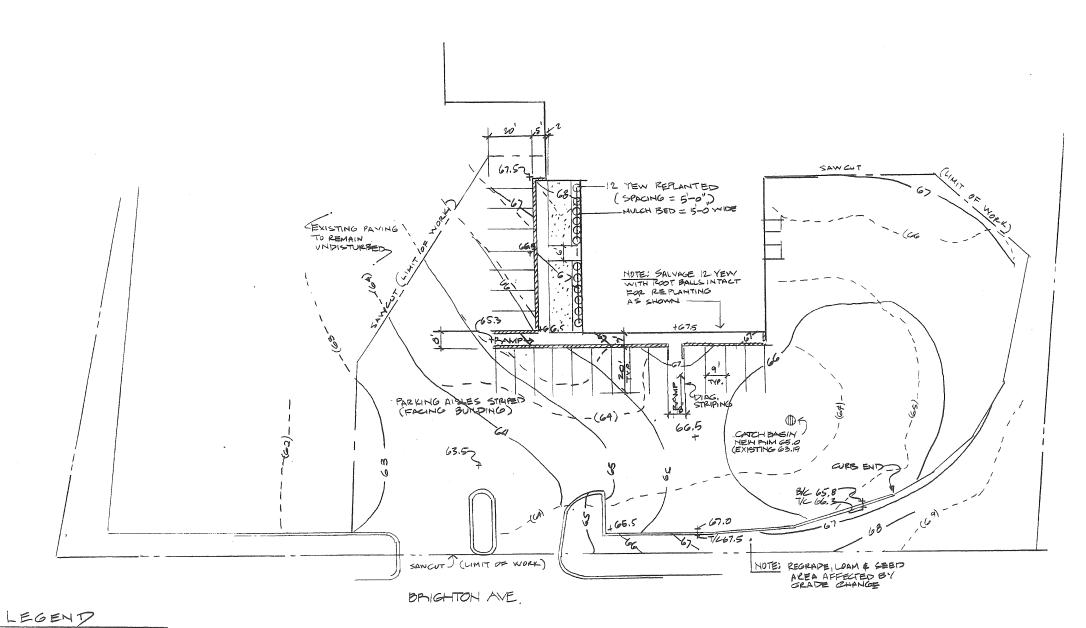
ARCHETYPE

 REV. 2
 6-04-97
 MISC. CHANGES

 REV 1
 4-10-97
 ADDED ADDITIONAL TOPO

Drwn By	DAB	Date	Job No.
Trace By	JLW/RWC	MAY 08, 1997	97058P
Check By	DAB	Scale	Drwg. No.
Book No.	803	1" = 50'	1





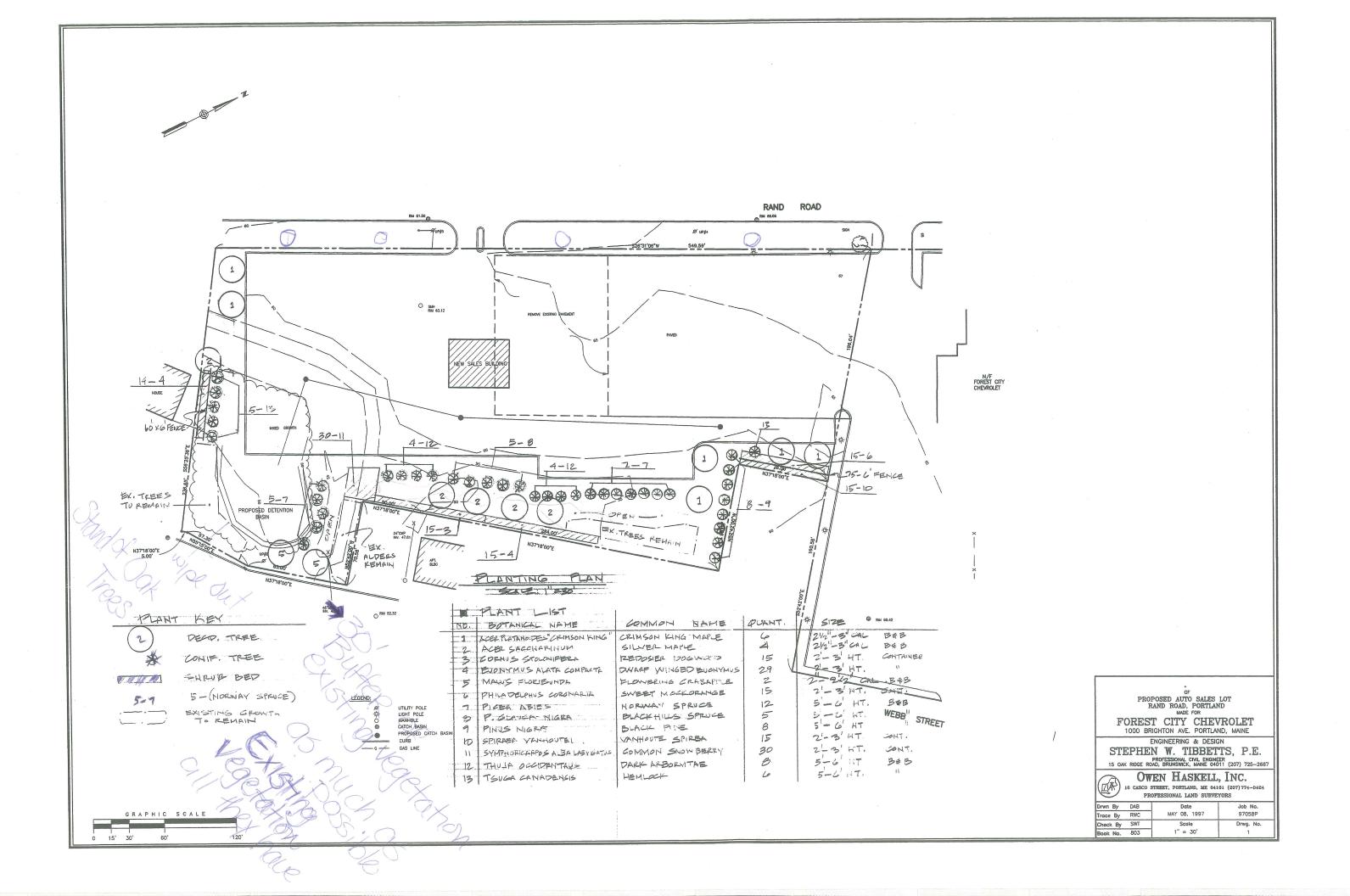
MEW	WRB	
EXISTIN AS R	ic coed to equiped	BE RESE
HEN	BITUMINOUS	PAVING
UMIT	OF WORK	

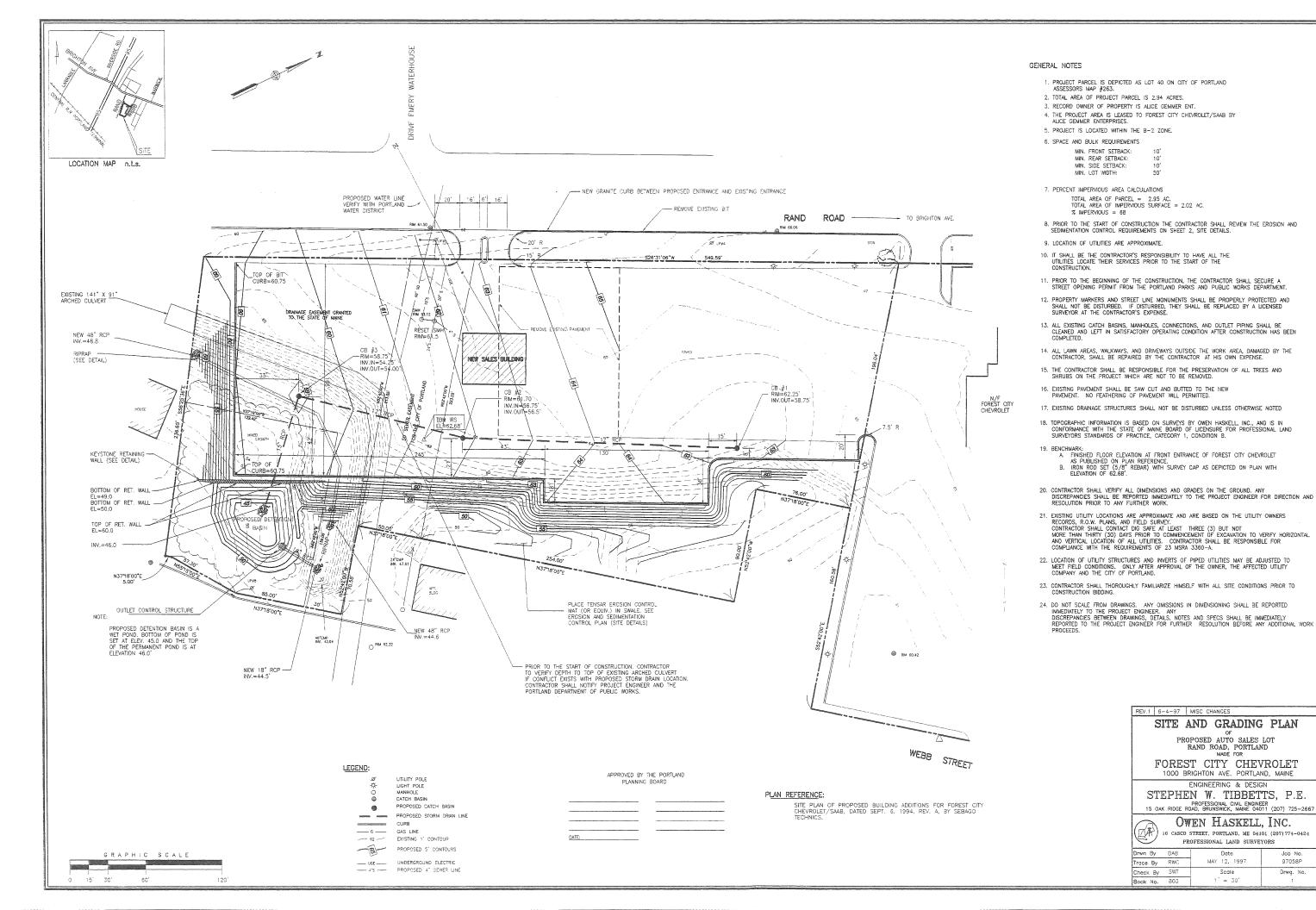
APEA OF LOAM & SEED

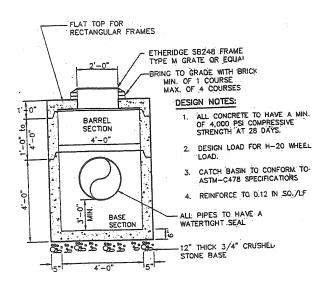
SITE PLAN SCALE: 1"=20"

FOREST CITY CHEVROLET

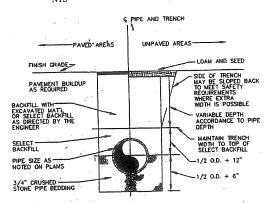
POPTITION MAINE
MAY 1997 1"-20"



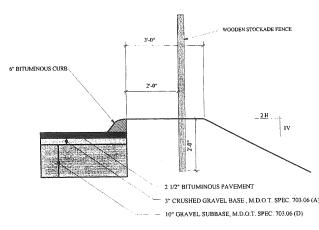




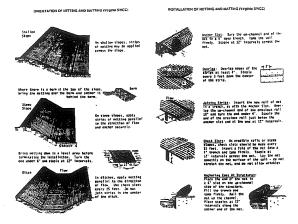
### PRECAST CONCRETE CATCH BASIN NTS



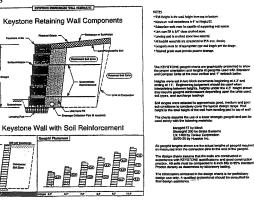
### TYPICAL TRENCH SECTION NTS



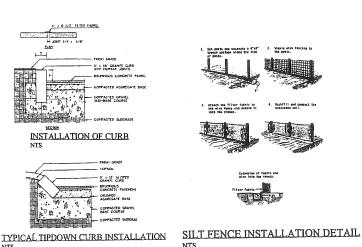
TYPICAL PARKING AREA CROSS SECTION

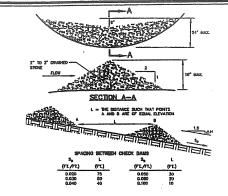


### EROSION CONTROL MAT INSTALLATION DETAIL NTS

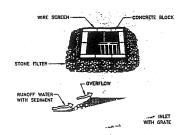


# KEYSTONE RETAINING WALL DETAILS





# STONE CHECK DAM



### SPECIFIC APPLICATION

...IS METHOD OF BILET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERHIOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDRING AROUND THE STRUCTURES

- NOTE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE CONCRETE BLOCKS TO PREVENT STORE FROM MEBIG WASHED THROUGH THE HOLES OF THE RICKS. MARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPDINGS SHALL BE USED.
- STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCK BARRIER, AS SHOWN IN DETAIL. THE STONE FILTER SHALL BE 3/4" CRUSHED STONE.
- If the Stone Filter Becomes Clodged with Sedment, so that it no londer addulately performs its function, the Stone Must be pulled away from the BLOCKS, CLEANED AND REPLACED.

# STORM DRAIN INLET PROTECTION

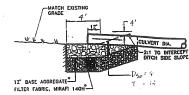
### REMOVAL OF TEMPORARY EROSION CONTROL MEASURES

Silt fencing is a temporary measure that has to be removed once vegetation has become established and areas are stable. This occurs when there is an 80% growth of planted seeds and paving has occurred. Silt frening will be disposed of legally and off-site. All sediment trapped behind the fencing will be either:

### a. Distributed to an area undergoing final grading.

b. Graded in an aesthetic manner to conform to the topography, and fertilized, seeded and mulched in accordance with the Permanent Revegetation Measures section in this Plan.

Stone check dams will be removed and reused either on-site where the stone can be utilized as rip rap, or off-site. The ground below the dams will be regnded, limed, fertilized, reseeded and mulched according to the measures in this Plan. Sediment trapped behind the dams will be removed and relocated off-site or to an area undergoing



\*DELETE ON ROCK SUBGRADE

CULVERT INLET PROTECTION DETAIL

### EROSION AND SEDIMENTATION CONTROL MEASURES

These proposed measures are based upon sound engineering and soil conservation practices and incorporate Best Management Practices for sedimentation and erosion control as presented in <u>Maine Erosion and Sedimentation Control Handhook for Construction, Best Management Practices</u>, March 1991, by the Cumberland County Soil and Water Conservation District and the State of Maine, Department of Environmental Protection. The Developer and his General Contractor are directed to have a copy of this document on hand during the construction of this project to supplement the following plan.

### GENERAL RECOMMENDATIONS

In order to prevent erosion and sedimentation before, during and after construction of this project, the Developer and its General Contractor will make an effort at all

- ! Minimize disturbed areas
- Seed and mulch disturbed areas ready for revegetation immediately after final grading or use temporary mulch.
- 3. Correct any erosion problems immediately.
- 4. Monitor and maintain all of the proposed practices on a regular basis.

### CONSTRUCTION PHASE

During the construction of the pavement area and entrance from Rand Road erosion and sedimentation will be controlled from this site by a series of recommended measures. They consist of a number of site specific nonstructural and structural easures as outlined below, as well as general nonstructural measures that apply

1. Only those areas under active construction will be cleared and left in an unvegetated or untreated condition. Final grading, looming and seeding will take place before August 15. Refer to Permanent Revegetation Measures section for details. If disturbed areas are to be left unvegetated for longer than 7 days, then temporary stabilization measures need to be taken. (See Item 5 below.)

- 2. Before starting construction, install sediment barriers (See nonstructural measures) at the toe of all fill slopes and in any other areas shown on the Site Plan for this project. Also install the stone sediment filters around the existing earlier basins in Rand Road that will be effected by any runoff from the project construction. See the Storm Drain Inlet Protection Detail on the Site Details Sheet
- Immediately after final grading of the parking area and driveway. install the stone check dams (See monstructural measures) in the swales at the back of the parking area as indicated on the Site Plan. See Site Details Sheet for installation guidelines.)
- 4. Topsoil will be stockpiled during construction. Stockpiles will be:
- a. Surrounded by a sediment barrier.
- b. Placed in piles with side slopes not to exceed 2:1.
- b. Mulched immediately and anchored with plastic netting.
- If any disturbed areas are expected to be left exposed for longer than 14 days, they will be either:
- a. Treated with mulch immediately, or
- Seeded with a standard conservation mix of annual rye grass at a rate of 0 . 9 lbs/1000 sf and mulched.
- 6. All grading will be held to a maximum slope of 2H: 1V or flatter

### Nonstructural Measures (Temporary)

The following, temporary nonstructural measures have been recommended by the Project Engineer for this project. Reference is also made to the relevant BMP in the aforementioned Manual. Installation details for the following measures are presented on the Site Details Sheet for this project.

### Stone Check Dams (BMP 15.0)

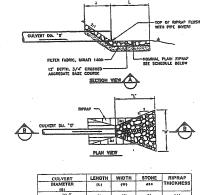
Stone check dams will be installed in the swale areas at the back of the project, as shown on the Site Plan, in order to reduce velocities

### Sediment Barriers (BMP 14.6.2.2)

Synthetic silt fencing shall be installed at the toe of all fill slopes shown on the Site Plan, including around the detention basin.

### Storm Drain Inlet Protection (BMP 16.0)

After installation of the catch basins, a stone, storm drain inlet sediment This maintains of the deach usaring, a stoke, storm train time securior. This type of sediment filter will also be installed around the intest place. This type of sediment filter will also be installed around the intest of the detention basin structure. These sediment filters will also be installed around the exesting catch basins in Rand Road that would be effected by construction activity at this site.



# CULVERT OUTLET PROTECTION DETAIL

Structural Measures

Structural erosion and sedimentation control measures designed for this

### Pipe Inlet Protection (BMP 31.0)

The proposed 48 inch culvert inlet under the parking expansion shall be protected as indicated in the Culvert Inlet Protection Detail shown on the Site Details Sheet. The protection shall consist of stone rip rap set over Geotextile fabric and placed as shown in the Details.

### Pipe Outlet Protection (BMP 32.0)

All culvert outlets shall be protected as indicated in the Culvert Outlet Protection Detail shown on the Site Details Sheet. The protection shall consist of stone rip rap set over Geotextile fabric and placed as shown in the Details.

### Permanent Revegetation Measures

The following measures will be used to establish permanent grass and legume cover for all steep slopes and the detention basin area as soon as final grading has occurred. Refer to BMP 3.0 if a more detailed description is necessary.

- Topsoil will be placed and graded to a uniform minimum depth of 2 inches. If the subsoil is compacted, it should be properly scarified to create the requisite bonding between subsoil and topsoil. In areas where the subsoil is determined to provide an adequate growth medium, topsoil will not be necessary.
- 2. Apply limestone and fertilizer according to soil test results. If testing is no feasible and timing is critical, apply fertilizer (10-20-10) at a rate of 18.4 lbs/ 1000 sq.ft., and ground limestone at a rate of 138 lbs/ 1000 sq.ft.. Work the fertilizer and limestone into the soil as nearly as practical to a depth of 4 inches with a disc, spring tooth harrow, or other suitable equipment, working along the
- 3. Permanent seeding suall be completed before August 15. A recommended broadcast seeding mixture from BMP 3.0, Table 3.2 is (in lbs/1000 sq ft): .46 lbs Creeping Red Fescue, .46 lbs Tall Fescue, nnd. .05 lbs Red Top (Total of .97 lbs). For Hydroseeting increase these rates by 10%. Other suitable mixtures recommended in BMP 3.0, Table 3.2 may be substituted after checking with the
- 4. After seeding, an area shall be mulched immediately. In general, all disturbed areas will be mulched using straw mulch, bydro-mulch or any suitable substitute as outlined in 2MP 10, Table 11, and deemed acceptable by the Project Engineer. Straw mulch shall be applied at a rate of 2 bales/ 1000 sq.ft. Straw mulch shall be a bored on all slopes greater than 5% with degradable/biodegradic- netting.
- 5. Tensar Erosion Mars. or equivalent, shall be used in the swale at the back of the project. Refer to the Grosion Control Netting Installations Detail on the Site Details Sheet for general installation guidelines. Refer to the specific product manufacturers' Installation Guidelines for more specific details.
- 6. On all the 2H: IV slopes around the perimeter of the parking area, as well as the interior of the detention basin and the proposed detention basin emergency pillway Teraste Persion Blankets, or equivalent will be installed. Refer to the Erosion Control Netting Installations Detail on the Site Details Sheet for general installation guidelines. Refer to the specific product manufacturers' Installation Guidelines for more specific details.
- S. If permanent seeding cannot take place before August 15, then all areas ready for permanent seeding shall be have a temporary seeding and/or mulch applied until a permanent seeding can be undertaken in the spring of the following year. The recommended temporary seeding is Annual Winter Rye broadcast seeded at a rate of 2.4 lbs/1000 sq.ft. If seeding cannot take place until late October or November, then the prepared soils shall be covered with staked, erosion control mats or a 6 inch layer of wood chips until seeding can take place the following spring.
- 6. Following final sending, the Developer and General Contractor shall insurthat all seedings are checked after each storm event and every 30 days until there is a catch of at least 80% of the seeds. If any seed is lost to erosion or the catch is not adequate, then the Developer will reseed those areas needing

### MONTTORING SCHEDULE

The Developer and General Contractor will be responsible for installing, monitoring, maintaining, replacing and removing, where required, all of the erosion and sedimentation control measures recommended in this plan. A qualified subcontractor may be appointed for this element of the plan. The Codes Enforcement Officer for the City of Portland should be kept notified of the implementation of this plan and requested to conduct follow-up inspections. Maintenance measures will be applied as needed during the construction cycle. After each ratifall event, a visual inspection will be made of all measures to insure that they are functioning as designed. Further detailed inspections must be made as follows:

- 1. The silt fencing and storm drain inlet sediment barriers will be inspected and 1. The SILL SENCING and ASSYM CHAIN THE ASSYM CHAIN SENTENCE AS WERE ASSYM CHAIN SENTENCE ASY
- corrected immediately. Sediment trapped behind these dams will be removed once it attains a depth equal to 1/2 the height of the dam. The sediment removed will be distributed off-site or to an area undergoing final grading. The sediment removal will be handled in a manner which does not result in any
- All <u>Erosion Control Blankets and Mats</u> will be inspected and repaired once a week or immediately after any significant rainfall.

## SITE DETAILS

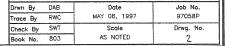
PROPOSED AUTO SALES LOT RAND ROAD, PORTLAND
MADE FOR

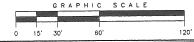
FOREST CITY CHEVROLET

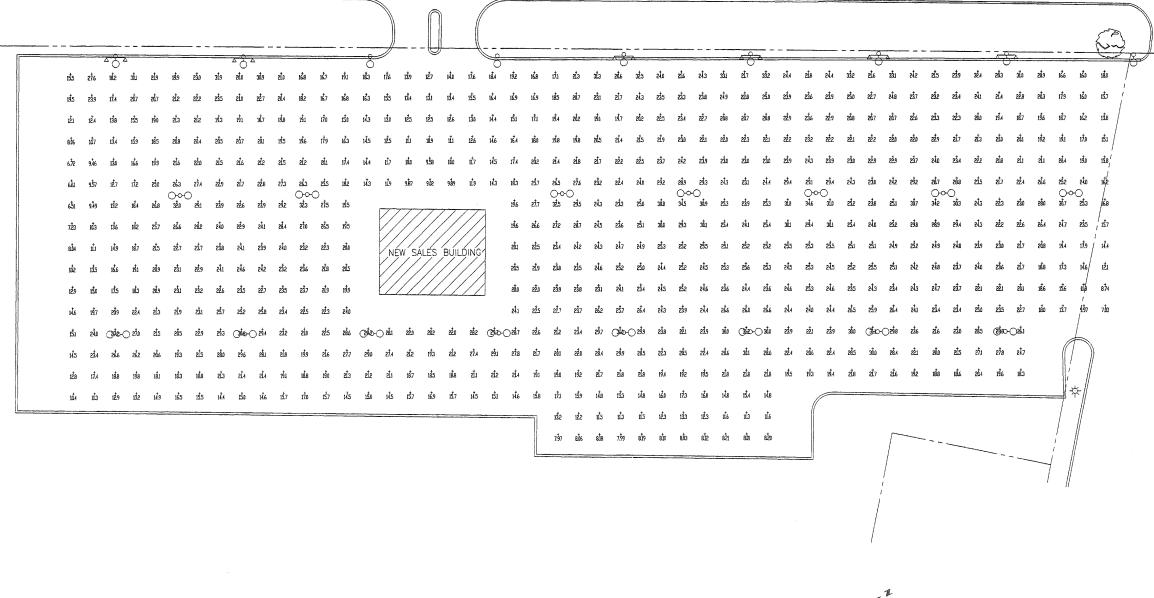
FNGINFERING & DESIGN

STEPHEN W. TIBBETTS, P.E. PROFESSIONAL CIVIL ENGINEER
15 OAK RIDGE ROAD, BRUNSWICK, MAINE 04011 (207) 725-2667













Bartlett Design
LIGHTING & ELECTRICAL ENGINEERING
1 FRONT STREET PO BOX 230 BATH, ME 04550
TEL (207) 443-547 FAX (207) 443-540

OF
OF
PROPOSED AUTO SALES LOT
RAND ROAD, PORTLAND
MADE FOR

FOREST CITY CHEVROLET
1000 BRIGHTON AVE. PORTLAND, MAINE

ENGINEERING & DESIGN
STEPHEN W. TIBBETTS, P.E.

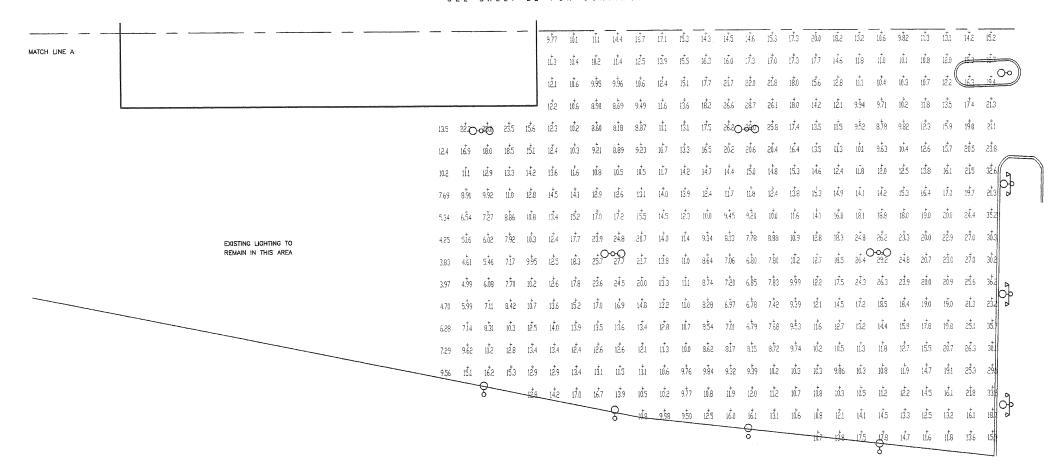
PROFESSIONAL CIVIL ENGINEER

15 CAK RIDGE ROAD, BRUNSWCK, MAINE 64011 (207) 725–2667



Drwn By LEB	Date	Job No.
Trace By	MAY 12, 1997	97058P
Check By	Scale	Drwg. No.
Book No.	1" = 20'	E1

SEE SHEET E2 FOR CONTINUATION







Bartlett Design
LIGHTING & ELECTRICAL ENGINEERING
1 FRONT STREET PO BOX 230 BATH, ME 04530
TEL (207) 443-547 FAX (207) 443-5560

PROPOSED AUTO SALES LOT
RAND ROAD, PORTLAND
MADE FOR
FOREST CITY CHEVROLET

FOREST CITY CHEVROLET
1000 BRIGHTON AVE. PORTLAND, MAINE
ENGINEERING & DESIGN

STEPHEN W. TIBBETTS, P.E.

PROFESSIONAL CIVIL ENGINEER
15 OAK RIDGE ROAD, BRUINSWICK, MAINE 04011 (207) 725-2867



 Drwn By
 LEB
 Date
 Job No.

 Trace By
 JUNE 2, 1997
 97058P

 Check By
 Scale
 Drwg, No.

 Book No.
 1" = 20"
 E3

PROPOSED AUTO SALES LOT
RAND ROAD, PORTLAND
MADE FOR
FOREST CITY CHEVROLET
1000 BRIGHTON AVE. PORTLAND, MAINE

ENGINEERING & DESIGN
STEPHEN W. TIBBETTS, P.E.
PROFESSIONAL CIVIL ENGINEER
15 OAK RIDGE ROAD, BRUNSWICK, MANE 04011 (207) 725-2867

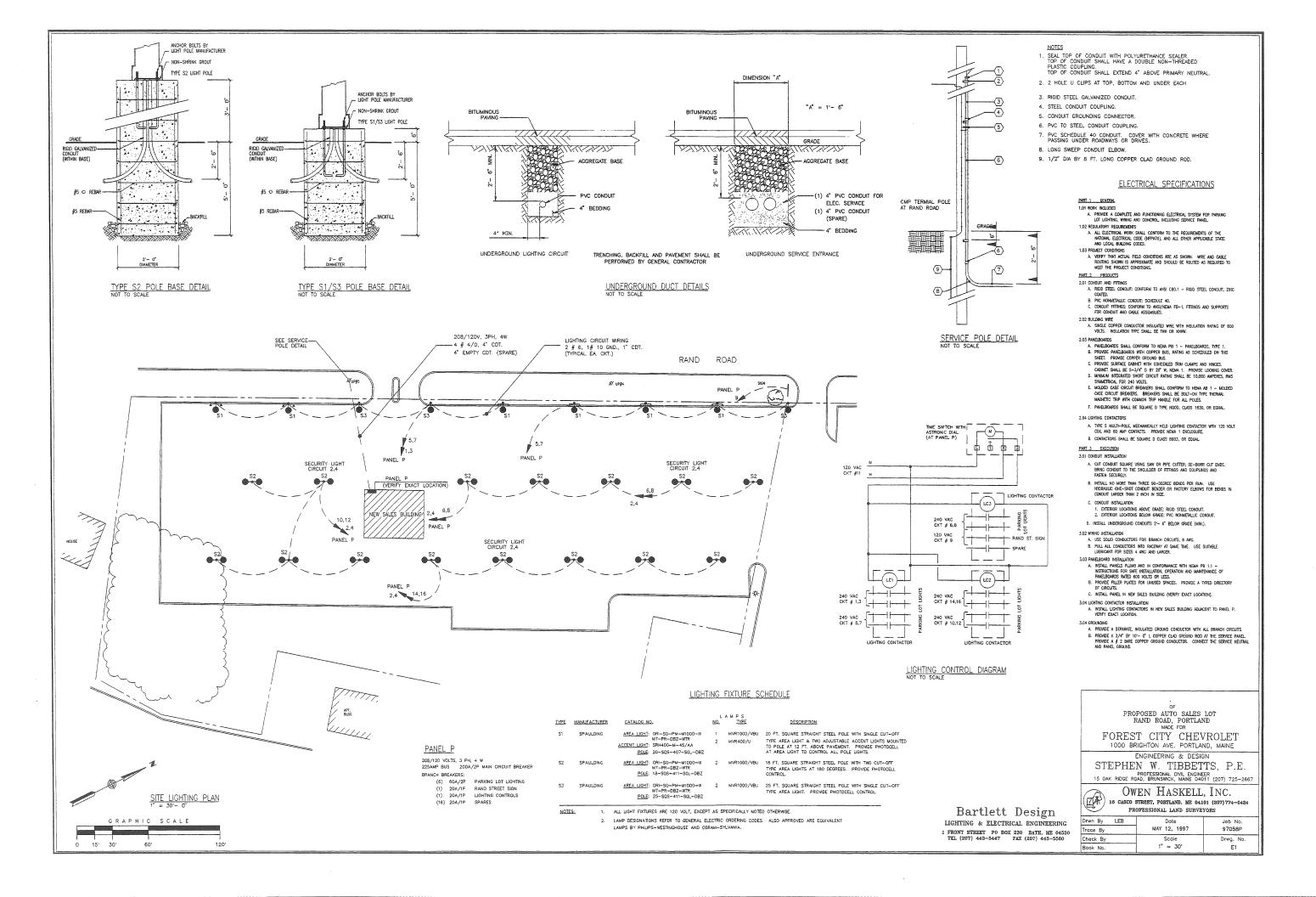
OWEN HASKELL, INC. 16 CASCO STREET, PORTLAND, ME 04101 (207)774-0424
PROFESSIONAL LAND SURVEYORS

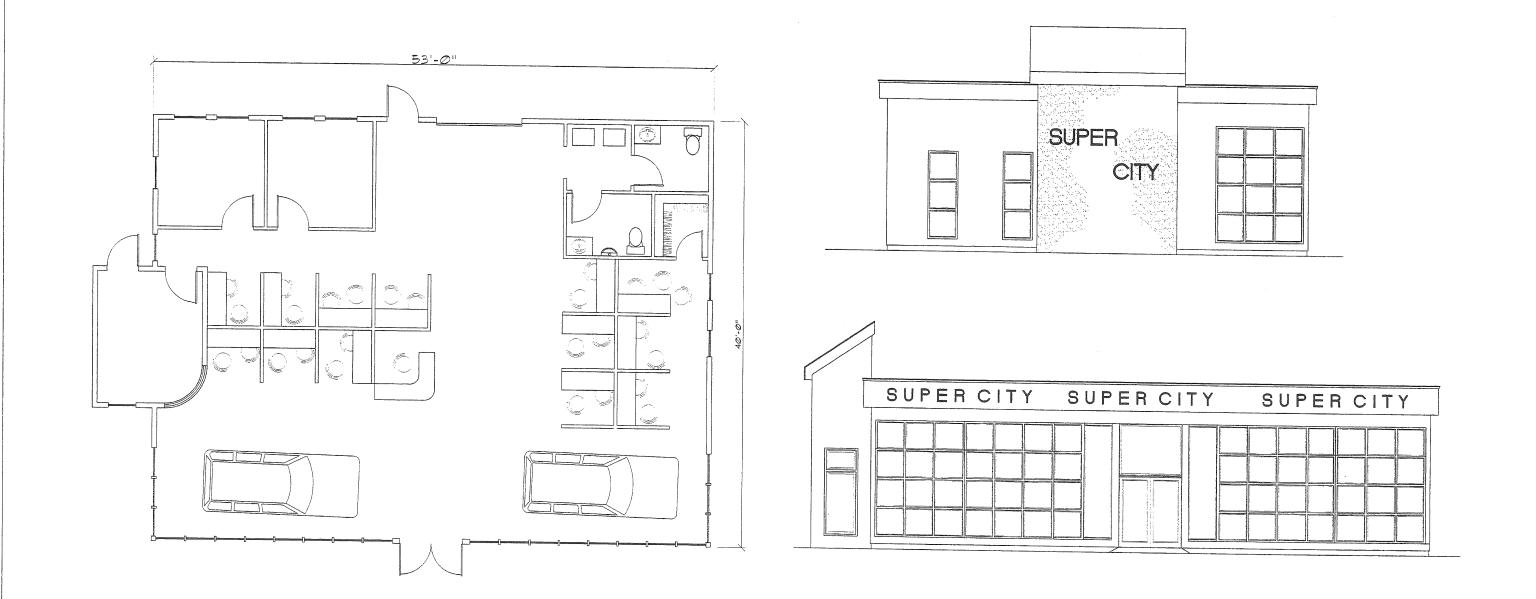
Bartlett Design

LIGHTING & ELECTRICAL ENGINEERING

1 FRONT STREET PO BOX 230 BATH, ME 04530 TEL (207) 443-5447 FAX (207) 443-5580

Drwn By LEB **Job No.** 97058P Trace By Check By Scale 1" = 20" Drwg. No. E2





# FOREST CITY CHEVEROLET

PORTLAND, MAINE SCALE 1/4" = 1'-0"

TEE YAM

STEPHEN W. TIBBETS, P.E. ENGINEERING & DESIGN PROFESSIONAL CIVIL ENGINEER BRUNSWICK, MAINE