

TERRIEN
ARCHITECTS

Terrien Architects, Inc.
4 Milk Street
Portland, Maine 04101
207 774-6016 Fax: 774-9128

M.S.A.D. 51 - Master Development Plan
PHASE 1 & 2 DEVELOPMENT
GRAVEL ACCESS ROAD & PARKING LOTS
GREELY H.S. & J.H.S. CIRCULATION IMPROVEMENTS
M.S.A.D. 51
Cumberland Center, Maine

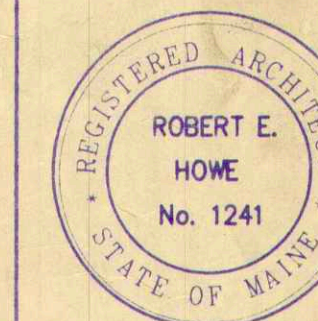
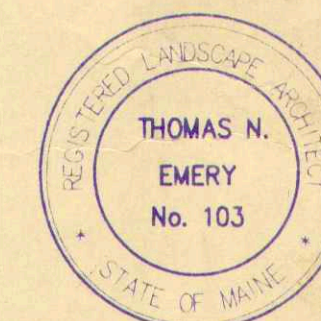
Civil Consultant:

DeLUCA - HOFFMAN ASSOC., INC.
118 Main Street, Suite 8
South Portland, Maine 04106
(207) 775-1121

DRAWING LIST

GRAVEL ACCESS ROAD & PARKING	
LO.1	STANDARD BOUNDARY SURVEY
DP2.0	CONTEXT SITE PLAN
L1.0	SITE PLAN (SOUTH)
L1.1	SITE PLAN (NORTH)
L1.1A	PHOTOMETRICS
L1.0A	PHOTOMETRICS
L2.0	GRADING, DRAINAGE, & EROSION CONTROL PLAN
L2.1	GRADING, DRAINAGE, & EROSION CONTROL PLAN
GREELY H.S. & J.H.S. CIRCULATION IMPROVEMENTS	
LO.2	EXISTING CONDITIONS NORTH
L5.1	SITE PLAN
L5.2	GRADING PLAN
L5.3	SIGNAGE PLAN
L5.5	SITE DETAILS - PAVEMENT
L5.6	SITE DETAILS (EROSION CONTROL)

Electrical Consultant:
THOMAS ENGINEERING
424 Fore Street
Portland, Maine 04101
(207) 761-2884



DATE:
REVISIONS:
SITE PLAN 26 MAR 93

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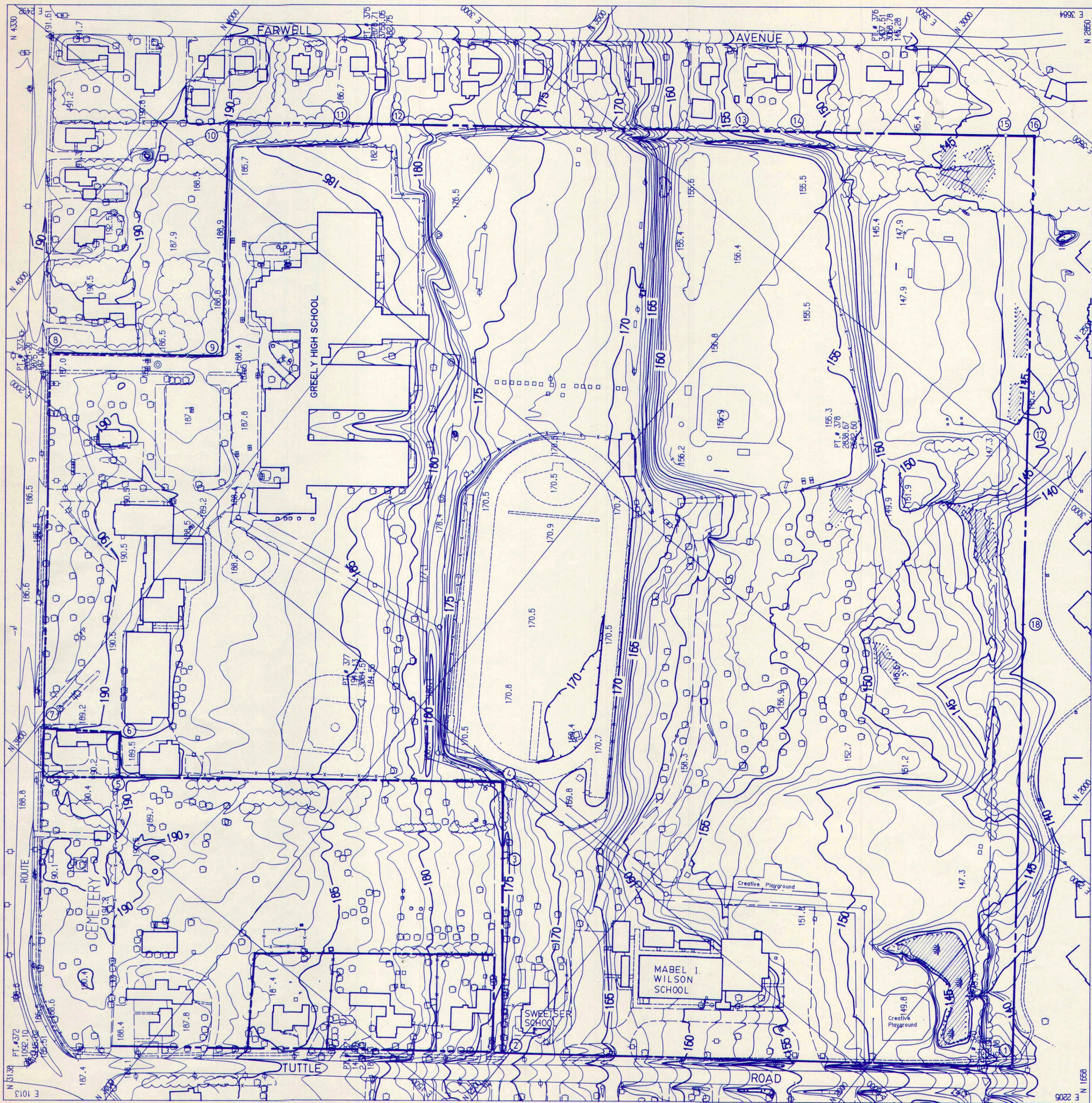
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SITE PLAN APPLICATION

M.S.A.D. 51 - Master Development Plan
PHASE 1 & 2 DEVELOPMENT
Cumberland Center, Maine

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MAGNETIC 1977

PROPERTY LINE LISTING

POINT NOS.	DISTANCE	BEARING
1 - 2	893.17	N 37° 15' 53" W
2 - 3	338.0	N 52° 13' 25" E
3 - 4	126.4	N 52° 48' 25" E
4 - 5	670.1	N 38° 31' 10" W
5 - 6	83.49	N 49° 53' 40" E
6 - 7	132.1	N 38° 31' 10" W
7 - 8	654.57	N 52° 16' 07" E
8 - 9	300.00	S 38° 15' E
9 - 10	400.98	N 52° 28' 45" E
10 - 11	202.03	S 38° 09' E
11 - 12	99.81	S 37° 19' 28" E
12 - 13	599.30	S 38° 08' 49" E
13 - 14	99.37	S 37° 08' 00" E
14 - 15	364.85	S 38° 06' 16" E
15 - 16	50.00	S 38° 06' 16" E
16 - 17	516.22	S 52° 23' 50" W
17 - 18	327.07	S 52° 23' 50" W
18 - 19	767.81	S 52° 23' 50" W

NOTES

- THE CONTOURS SHOWN ARE FROM AERIAL PHOTOGRAMMETRY COMPILED BY JAMES SEWALL CO., OLD TOWN, MAINE, DATED APRIL 30, 1992 AND CONTROLLED BY OWEN HASKELL, INC.
- STANDARD PROCEDURE DICTATES THAT PHOTOGRAMMETRIC MAPS BE FIELD CHECKED PRIOR TO USE. IN AREAS WHICH ARE OBSCURED BY VEGETATION OR PHYSICAL FEATURES, CONTOURS AND DETAIL MAY ONLY BE APPROXIMATE.
- SOME FEATURES AND DETAILS SHOWN WERE FIELD LOCATED BY OWEN HASKELL, INC.
- WETLANDS DELINEATED BY NORMANDEAU ASSOCIATES, YARMOUTH, MAINE, AND LOCATED BY OWEN HASKELL, INC.
- BENCH MARK: SQUARE CUT IN SOUTHEAST CORNER OF CONCRETE LANDING AT SOUTHEAST CORNER OF GREELY HIGH SCHOOL BUILDING. ELEVATION 187.93, N.G.V.D. DATUM MEAN SEA LEVEL = 0.00'.
- OWNERSHIP: TOWN OF CUMBERLAND, DEED BOOK 933, PAGE 65; BOOK 2277, PAGE 1; BOOK 2557, PAGE 225; BOOK 2567, PAGE 42; BOOK 2567, PAGE 40; GREELY INSTITUTE BOOK 932, PAGE 457; S.A.D. #51 BOOK 2960, PAGE 426; BOOK 2980, PAGE 80; BOOK 2986, PAGE 584.

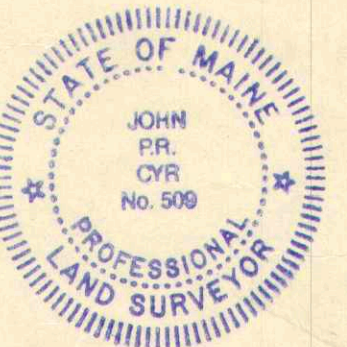
CERTIFICATE

OWEN HASKELL, INC. HEREBY CERTIFIES THAT THIS PLAN IS BASED ON, AND THE RESULT OF, AN ON THE GROUND FIELD SURVEY AND THAT IT CONFORMS TO THE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS STANDARDS FOR A CATEGORY I, CONDITION II SURVEY WITH THE FOLLOWING EXCEPTIONS:

- NO DEED DESCRIPTION PREPARED
- NO SURVEYOR'S REPORT PREPARED
- NOT ALL CORNERS MARKED

John P.R. Cyr
JOHN P.R. CYR, PLS NO. 509

DATE: JAN. 4 - 1993



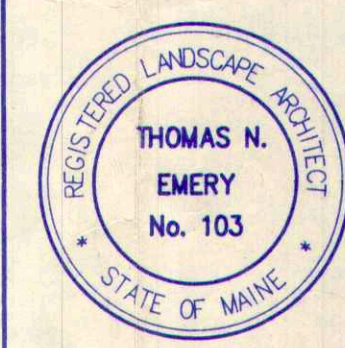
STANDARD BOUNDARY SURVEY
AND TOPOGRAPHY PLAN
TUTTLE ROAD, CUMBERLAND, MAINE
MADE FOR
S.A.D. #51
12 DROWNE ROAD, CUMBERLAND, MAINE

Owen Haskell, Inc.

Civil Engineers South Portland, Maine Land Surveyors

Drwn By FJS	Date JAN. 4, 1993	Job No. 90035 C
Trace By JLW	Scale 1" = 100'	Drwg. No. L - 0.1
Check By JPRC		
Bk No 626C/528C		

M.S.A.D. 51 - Master Development Plan
PHASE 1 DEVELOPMENT
Cumberland Center, Maine



DATE: 4 JAN 1993
REVISIONS:
SITE PLAN 4 JAN 93
SITE PLAN 1 MARCH 93
SITE PLAN 24 MARCH 93

DRAWING NO.

L1.0

2010ST09.DWG

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GRAVEL ACCESS ROAD

LEGEND

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
EASEMENT LINE	EASEMENT LINE
SEWER MAIN	SEWER MAIN
EDGE OF PAVEMENT	EDGE OF PAVEMENT
DIRT ROAD	DIRT ROAD
PAVED WALK	PAVED WALK
CURB	CURB
WETLAND EDGE	WETLAND EDGE
TREE LINE	TREE LINE
CONTOUR LINE	CONTOUR LINE
SPOT ELEVATION	SPOT ELEVATION
FENCE	FENCE
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CULVERT	CULVERT
UTIL POLE	UTIL POLE
LIGHT FIXTURE	LIGHT FIXTURE
FIRE HYDRANT	FIRE HYDRANT
FLAG POLE	FLAG POLE
SIGN	SIGN
TREE	TREE

K CABLE GATE DETAIL

SCALE: NOT TO SCALE

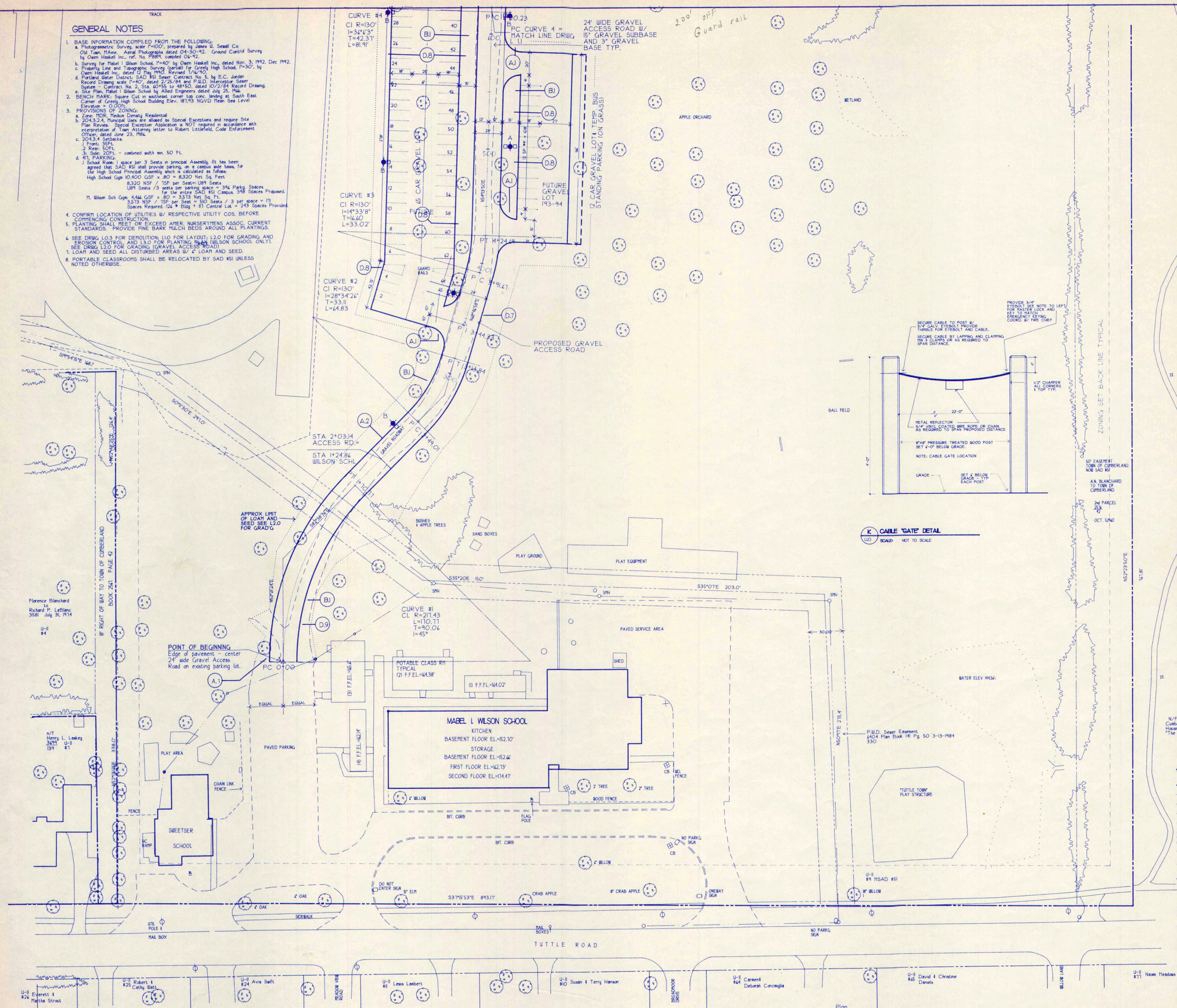


SITE PLAN APPLICATION

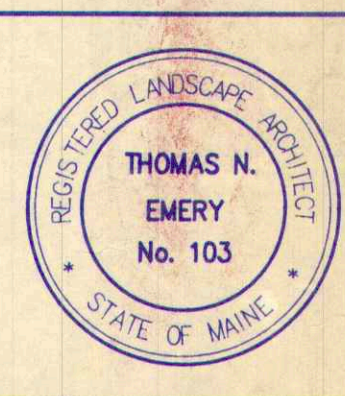
0 20' 40' 80' 160'
SCALE: 1" = 40'

GENERAL NOTES

- BASE INFORMATION COMPILED FROM THE FOLLOWING:
 - Photogrammetric Survey, scale 1"=100', prepared by James W. Small Co. Oct. 1988. Aerial Photographs dated 04-30-92. Ground Control Survey by Owen Haskell Inc. ref. No. P888, compiled 04-92.
 - Survey for Mabel I. Wilson School, 1"=40' by Owen Haskell Inc. dated May 3, 1992, Dec 1992.
 - Property Line and Topographic Survey (partial) for Greenly High School, 1"=30', by Owen Haskell Inc. dated 12 May 1990. Revised 1/2/92.
 - Portland Water District: S&D #51 Sewer Contract No. 5, by E.C. Jordan Record Drawing scale 1"=40', dated 2/26/84 and P.I.D. Interceptor Sewer System - Contract No. 3, S&D #255 to #255, dated 10/2/84 Record Drawing.
 - Site Plan, Mabel I. Wilson School by Allied Engineers dated July 25, 1984.
 - BENCH MARK: Square Cut in southeast corner lot corner, located at South East Corner of Greenly High School Building Elev. 181.43 NGVD Mean Sea Level Elevation = 0.00.
 - PROVISIONS OF ZONING:
 - Zone: MDR, Medium Density Residential.
 - 204.3.2.4, Municipal Uses are allowed as Special Exceptions and require Site Plan Review. Special Exception Application is NOT required in accordance with interpretation of Town Attorney letter to Robert Littlefield, Code Enforcement Officer, dated June 23, 1984.
 - 204.3.4 Setbacks:
 - Front: 35'.
 - Rear: 30'.
 - Side: 20'.
 - Side: 20'.
 - 204.3.4.1, combined with min. 50' P.L.
 - PARKING:
 - School Room: Space per 3 Seats in principal Assembly. It has been agreed that S&D #51 shall provide parking on a campus side base, for the High School Principal Assembly which is calculated as follows:
High School Cym 10,400 GSF x .80 = 8,320 Net Sq. Feet
8,320 NSF / 150' per Seat = 55.47 Seats
100' Seats / 3 seats per parking space = 33.33 Parking Spaces Provided.
For the entire S&D #51 Campus, 318 Spaces Provided.
3,513 NSF / 150' per Seat = 23.42 Seats / 3 seats per space = 7.81 Spaces Required. 124' x 124' FT Control Lot = 15,376' Sq. Feet Provided.
- CONFIRM LOCATION OF UTILITIES BY RESPECTIVE UTILITY COS. BEFORE COMMENCING CONSTRUCTION.
- PLANTING SHALL MEET OR EXCEED AMER. NURSERYMANS ASSOC. CURRENT STANDARDS. PROVIDE PINE BARK MULCH BEDS AROUND ALL PLANTINGS.
- SEE DRWG L03 FOR DEMOLITION, L10 FOR LAYOUT, L20 FOR GRADING AND EROSION CONTROL, AND L30 FOR PLANTING (MABEL WILSON SCHOOL ONLY). SEE DRWG L20 FOR GRADING (GRAVEL ACCESS ROAD).
- LOAN AND SEED ALL DISTURBED AREAS W/ 2" LOAN AND SEED.
- PORTABLE CLASSROOMS SHALL BE RELOCATED BY S&D #51 UNLESS NOTED OTHERWISE.



M.S.A.D. 51 - Master Development Plan
PHASE 1 DEVELOPMENT
Cumberland Center, Maine



DATE: 14 DEC 1992
REVISIONS:
SITE PLAN 4 JAN 93
SITE PLAN 1 MARCH 93
REV LIGHTG 16 MAR 93
SITE PLAN 26 MARCH 93

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DRAWING NO.

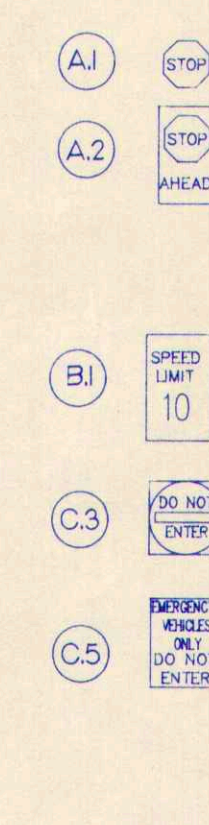
L1.1

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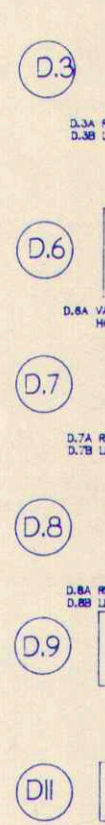
NOTES:

- See Drawing L1.0 for General Notes and Legend.
- See Drawing L1.0 for south half Access Road layout. See Drawings L2.0 and 2.1 for Grading and Erosion Control Plan.
- Provide 4" Loam and seed each side of proposed Access Road. Seed mix Conservation mix blend.
- Confirm location of all utilities and storm drain before commencing construction.
- New Field House Construction by others.
- All loam grubbed from site shall remain on site. See Dag L2.0 and L2.1 for stockpile locations.
- Maximum slope 3:1
- Contractor shall perform sieve analysis on existing soils to determine suitability for Road base and subbase material.

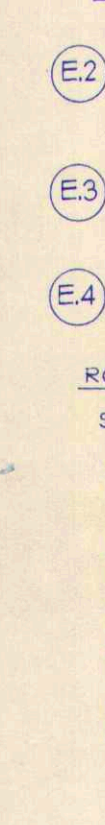
A/B/C



D



E



ROAD SIGN SIZE SCHEDULE

SIGN	SIZE
A.1	30" X 30"
A.2, B.1	24" X 18"
C.3	24" X 24"
C.5	24" X 30"
C.1/C.8	24" EACH SIDE
D.3, D.8	24" X 18"
D.4	12" X 12"
D.9-D.11	12" X 18"
E.2, E.3	12" X 18"
E.4	18" X 18"

SIGNS SHOWN ABOVE ARE SCHEMATIC ONLY. SIGN LETTERING SHALL COMPLY W/ "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), FED. HIGHWAY ADMIN. CURRENT EDITION.

SET ALL SIGNS A MINIMUM OF 3'-0" FROM EDGE OF PAVEMENT OR FACE OF CURB IN FIELD FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.

ROAD SIGN LEGEND

NOT TO SCALE

ISOFOOTCANDLE CURVES (Graphic Representation)
(GE M-250R2 150W HPS Luminaire)

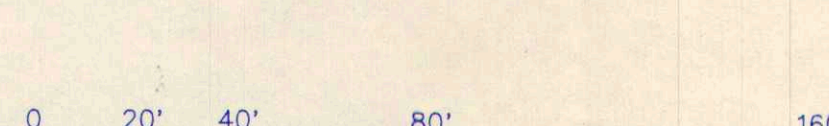
Access Road Lighting (CMP Cobraheads)

150W HPS 2 LUMINAIRE	A	● (All fixtures mounted on 30' poles)
150W HPS 1 LUMINAIRE	B	●
100W HPS 1 LUMINAIRE	C	●

SIGN KEY
● LOC IN SEE L1.1

LEGEND

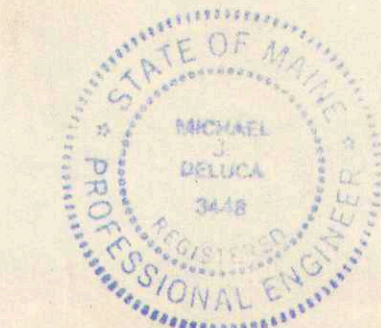
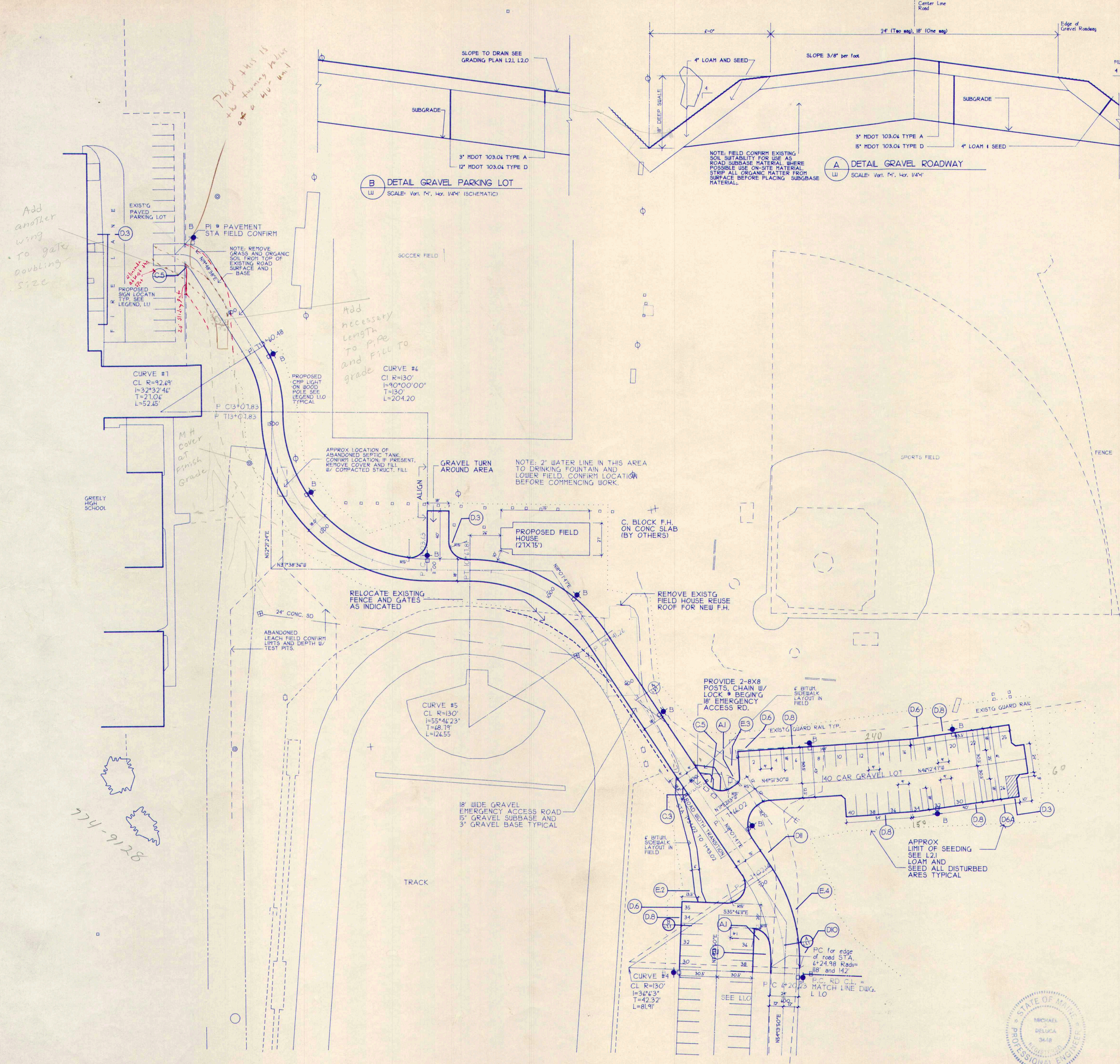
EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
EASEMENT LINE	EASEMENT LINE
SEWER MAIN	SEWER MAIN
EDGE OF PAVEMENT	EDGE OF PAVEMENT
DIRT ROAD	DIRT ROAD
PAVED WALK	PAVED WALK
CURB	CURB
WETLAND EDGE	WETLAND EDGE
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UTIL POLE	UTIL POLE
LIGHT FIXTURE	LIGHT FIXTURE
FIRE HYDRANT	FIRE HYDRANT
FLAG POLE	FLAG POLE
SIGN	SIGN
TREE	TREE

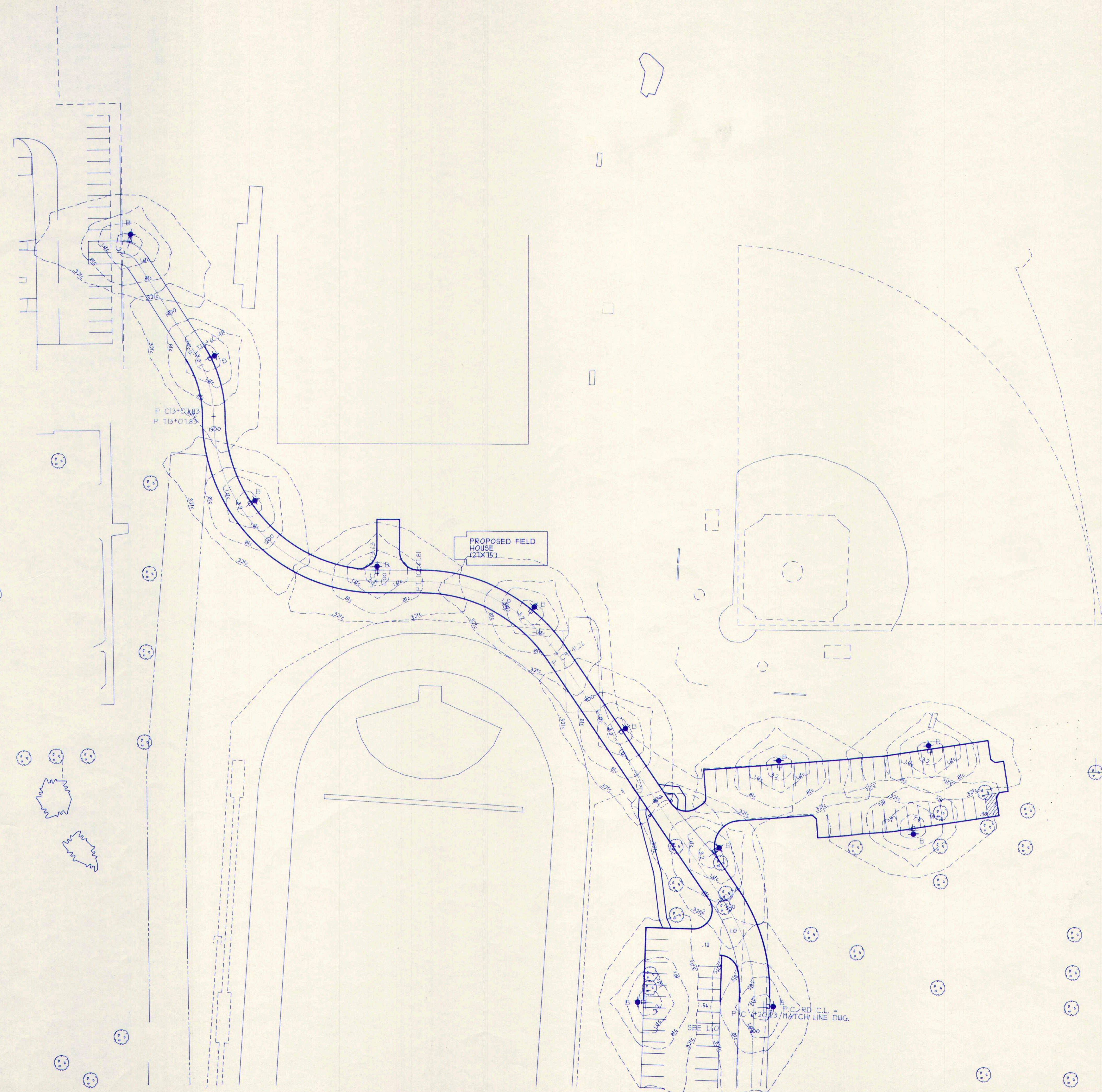


SCALE: 1" = 40'

SITE PLAN APPLICATION

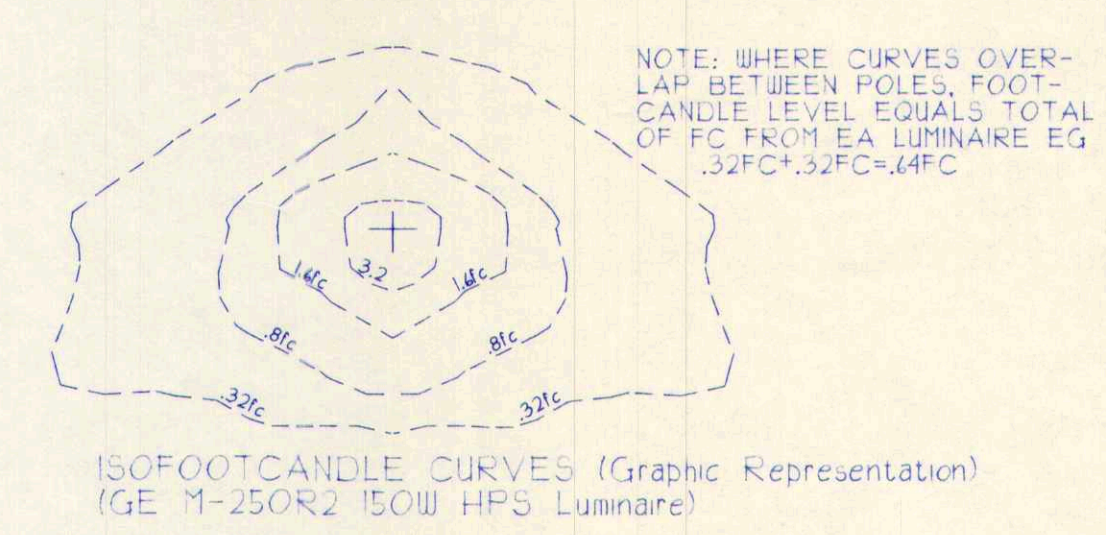
SITE PLAN





NOTE

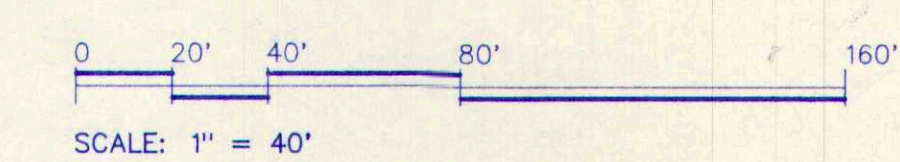
1. PHOTOMETRICS PREPARED BY THOMAS ENGINEERING BASED ON 30' MTG HT
2. SEE SITE PLAN FOR FIXTURE LEGEND AND LAYOUT
3. FIXTURES LEASED FROM CMP AS FOLLOWS:
A. 150W HPS TWO LUMINAIRE
B. 150W HPS ONE LUMINAIRE
C. 100W HPS ONE LUMINAIRE
- ALL FIXTURES GENERAL ELECTRIC "COBRA HEAD TYPE"
4. LUMINAIRE ON PHOTOCELL UNLESS NOTED OTHERWISE
5. LUMINAIRE PROPOSED WITH CUTOFF OPTICS



Access Road Lighting (CMP Cobraheads)
150W HPS 2 LUMINAIRE A
150W HPS 1 LUMINAIRE B
100W HPS 1 LUMINAIRE C

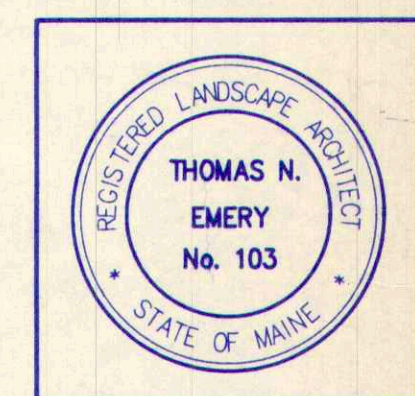
(All fixtures mounted on 30' Hds)
(All fixtures mounted on 30' Hds)
(All fixtures mounted on 30' Hds)

LEGEND	
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FLAG POLE	FLAG POLE
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SITE PLAN APPLICATION
PHOTOMETRICS

M.S.A.D. 51 - Master Development Plan
PHASE 1 DEVELOPMENT
Cumberland Center, Maine



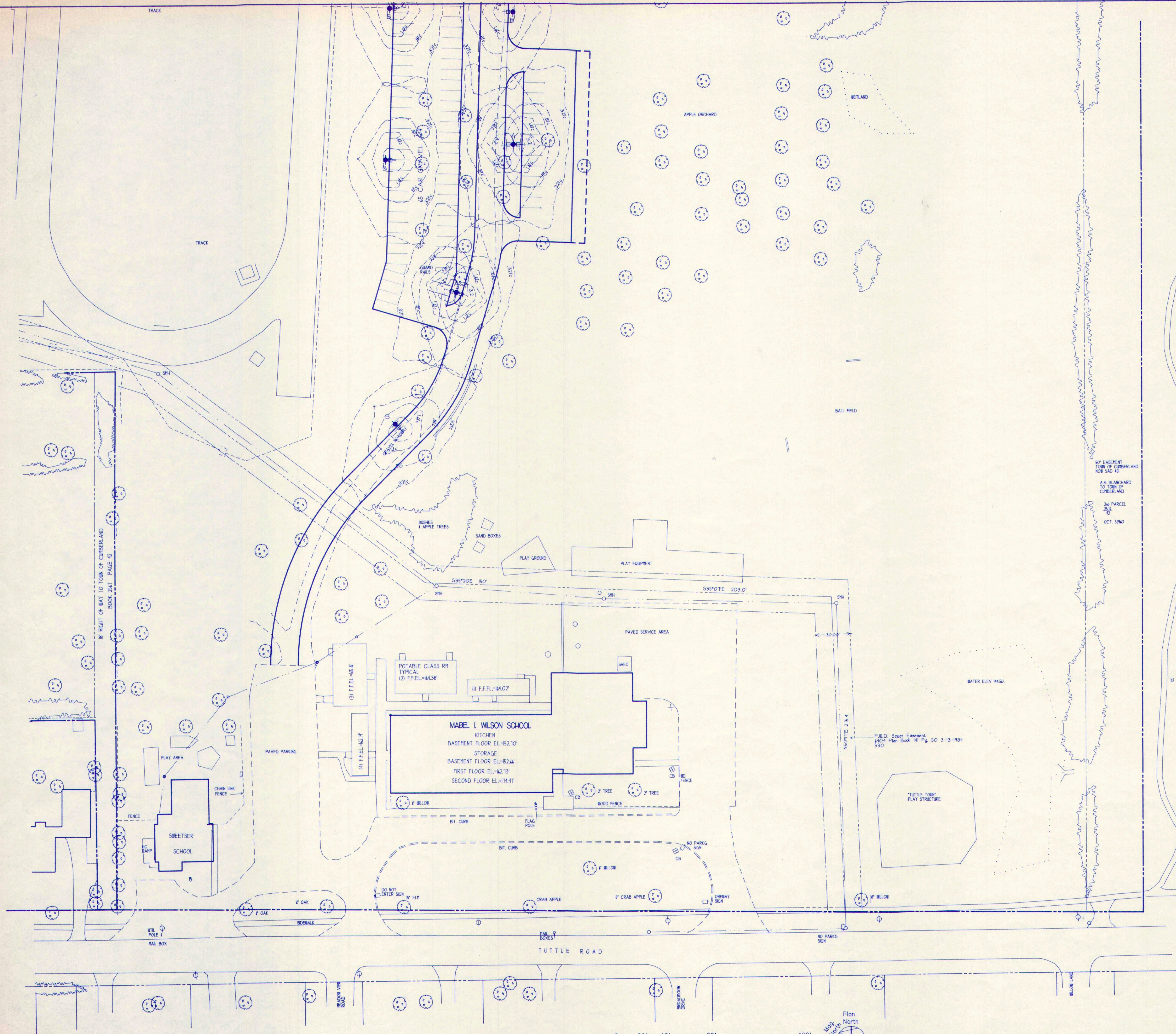
DATE: 14 DEC 1992
REVISIONS:
SITE PLAN 4 JAN 93
SITE PLAN 1 MARCH 93
REV LIGHTG 14 MAR 93
SITE PLAN 26 MARCH 93

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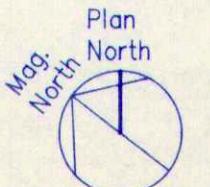
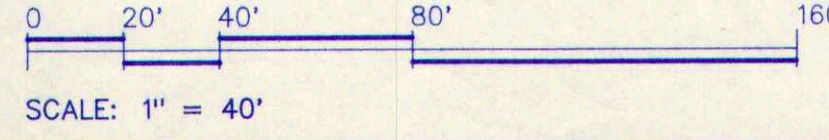
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Access Road Lighting (CMP Cobraheads)
150W HPS 2 LUMINAIRE A (All fixtures mounted on 30' Wd. poles)
150W HPS 1 LUMINAIRE B
10W HPS 1 LUMINAIRE C

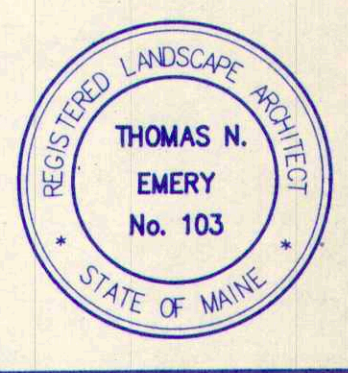
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SITE PLAN APPLICATION

GRAVEL ACCESS ROAD

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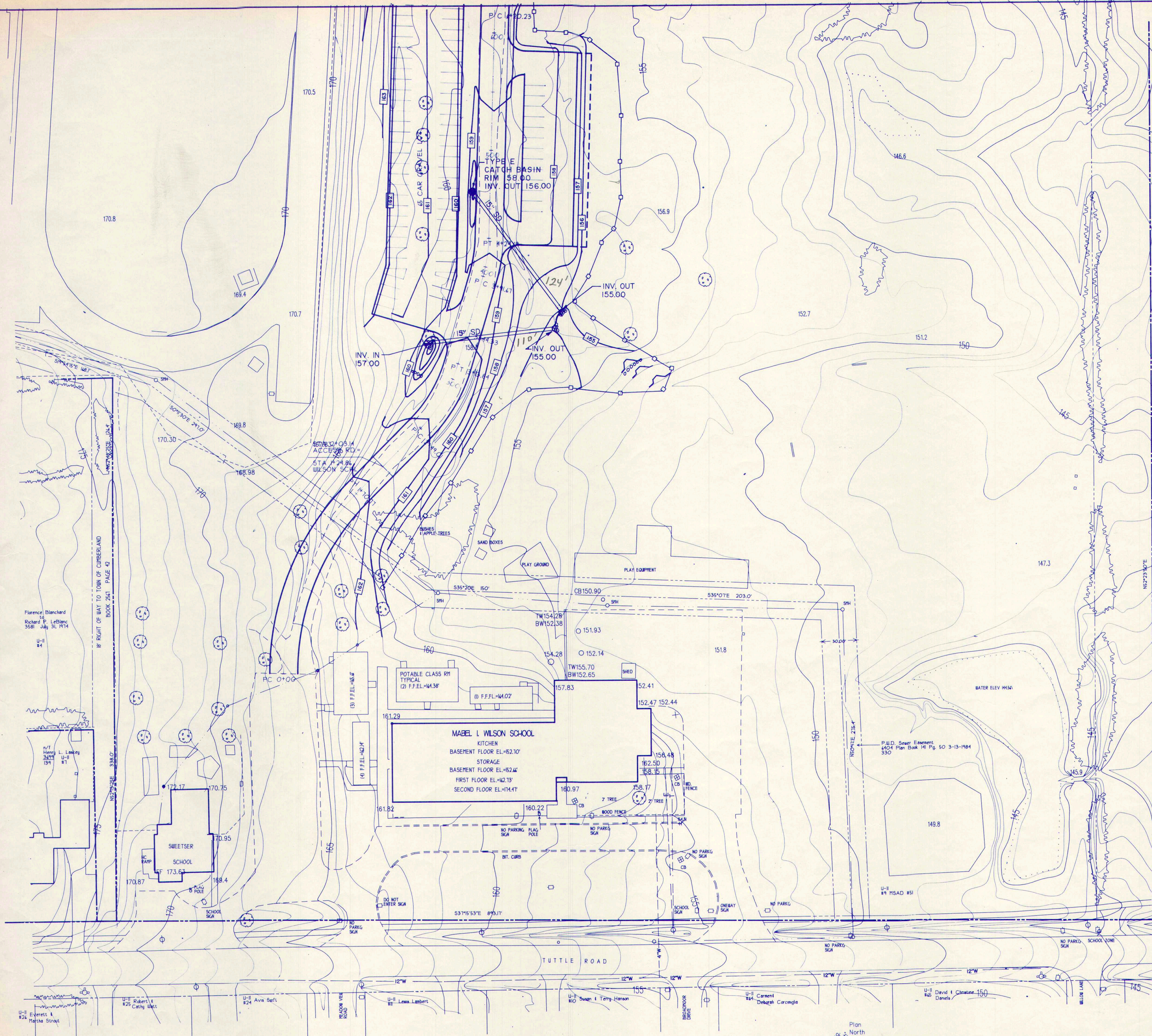


DATE: 4 JAN 1993
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SITE PLAN 24 MARCH 93

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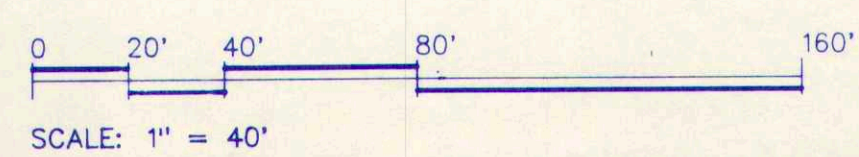
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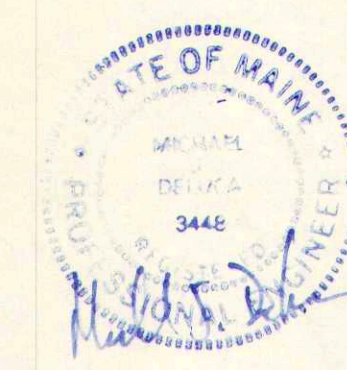
LEGEND

EXISTING	PROPOSED
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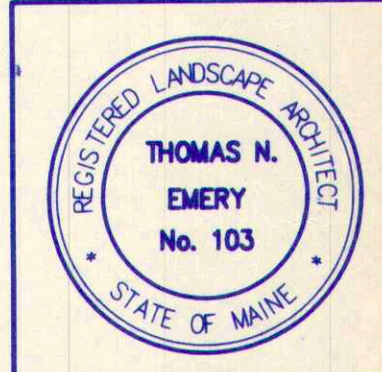


SITE PLAN APPLICATION

GRADING, DRAINAGE, & EROSION CONTROL PLAN



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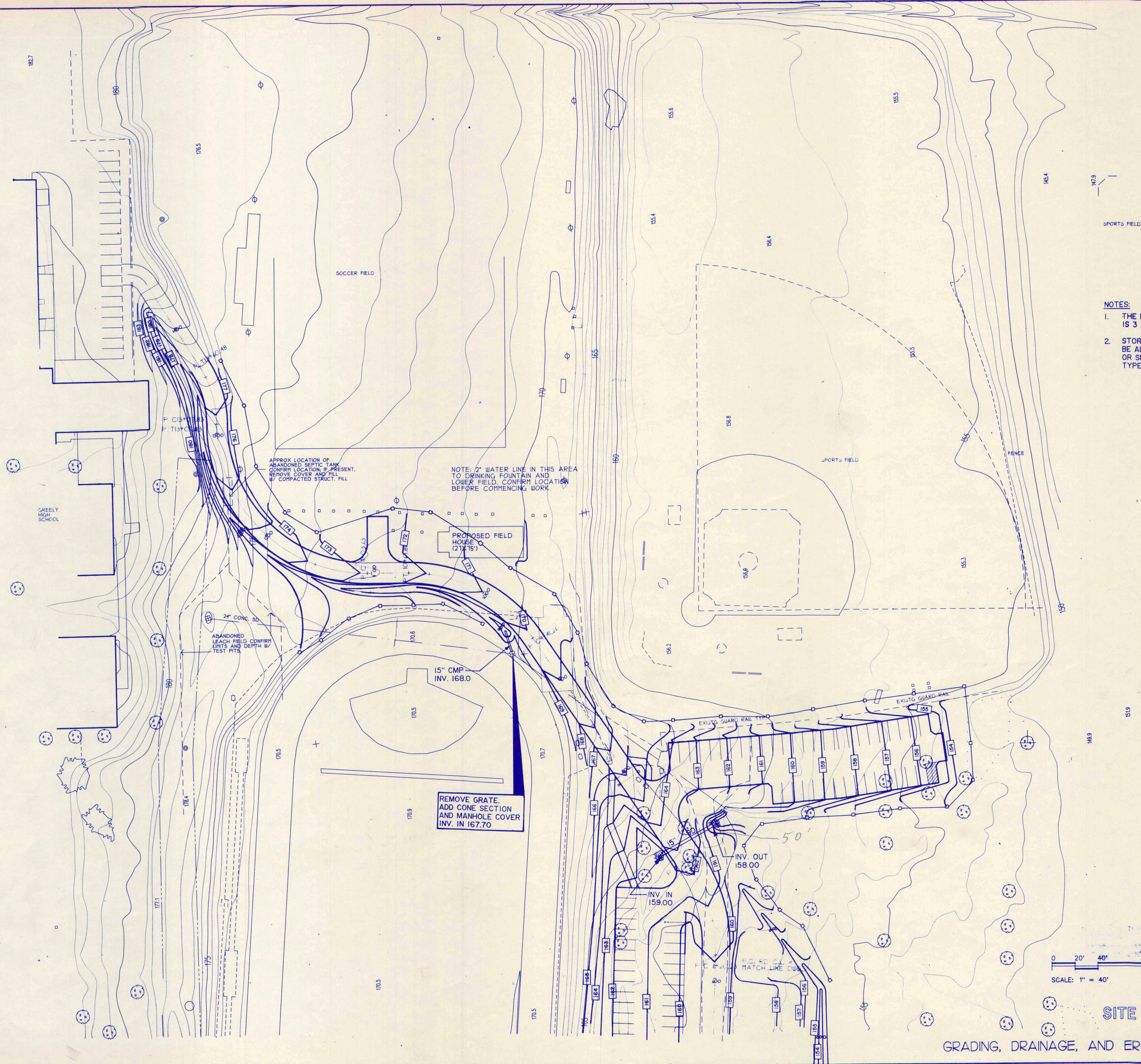
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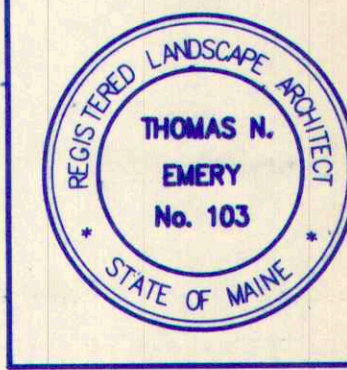
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Consulting Engineers
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South Portland, Maine 04106
207/775-1121

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NOTES:

1. THE MAXIMUM PERMITTED SIDE SLOPE IS 3 : 1, UNLESS NOTED OTHERWISE.
2. STORM DRAIN PIPE MATERIAL SHALL BE ALUMINIZED HELICAL CMP, OR CONCRETE, OR SMOOTH BORE HDPE PIPE. ONLY ONE TYPE OF MATERIAL SHALL BE USED.

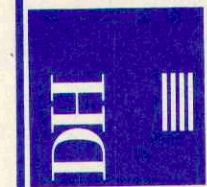


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L2.1

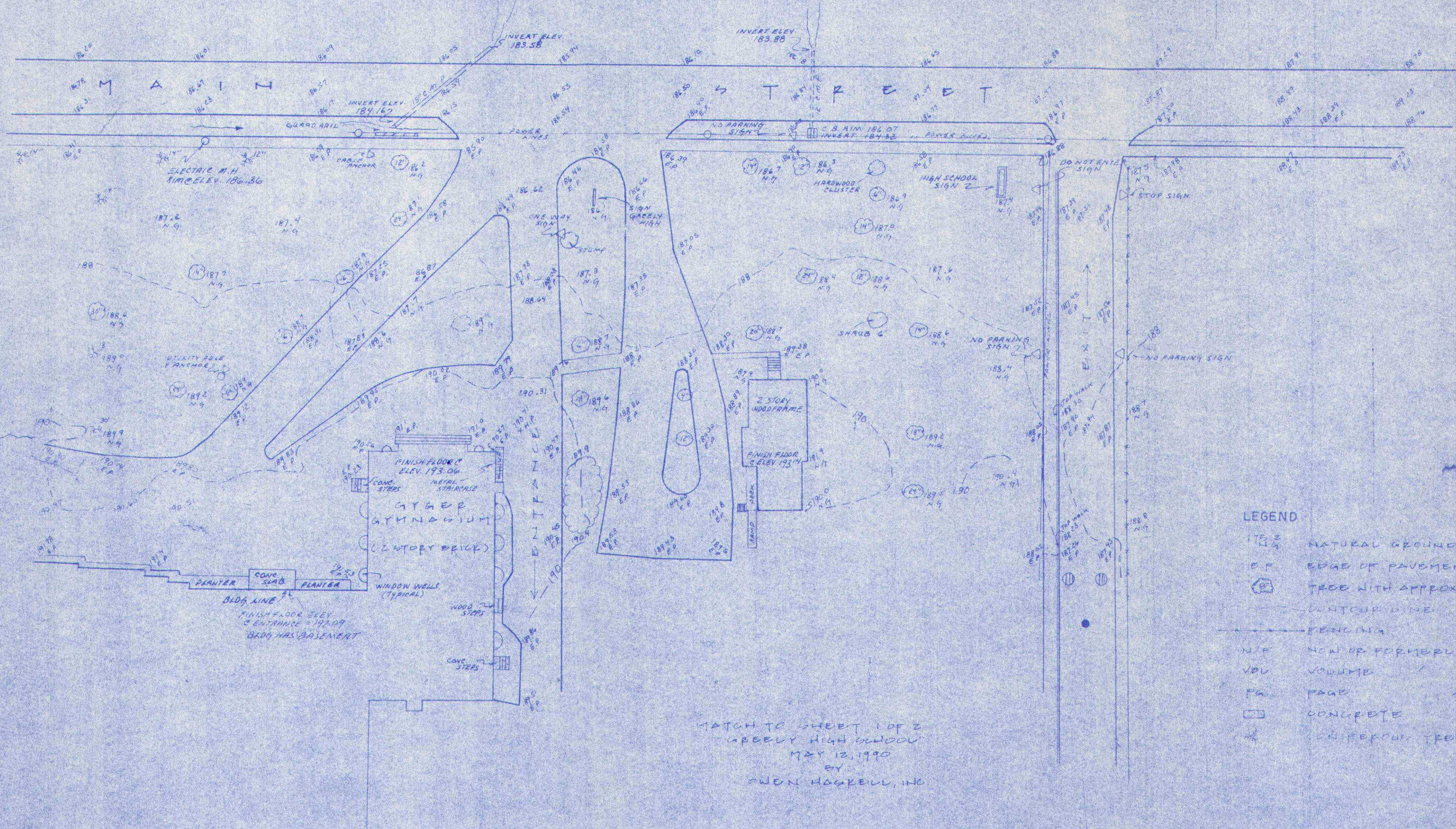
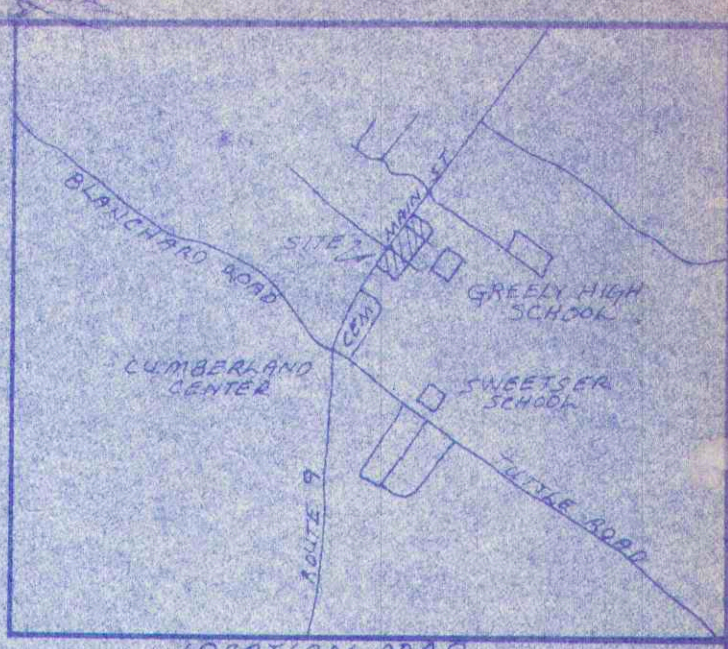
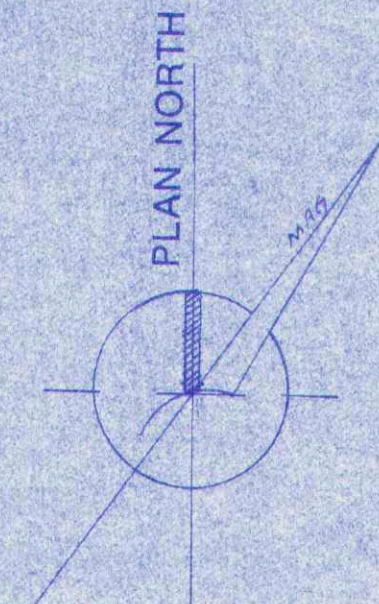


DeLuca-Hoffman Associates, Inc.
Consulting Engineers
778 Main Street
South Portland, Maine 04106
207-775-1121

M.S.A.D. 51 - Master Development Plan
PHASE 1 DEVELOPMENT
Cumberland Center, Maine

TERRIEN
ARCHITECTS
Terrien Architects, Inc.
4 Milk Street
Portland, Maine 04101
207-774-6016 Fax: 774-9126

2010ST14.DC3



- LEGEND
- TE 2/4 NATURAL GROUND SPOT ELEV
 - CP EDGE OF PAVEMENT
 - TS TREE WITH APPROX DIAMETER
 - CONTOUR LINE
 - FENCING
 - N/F NEW OR FORMERLY
 - VDL VOLUTE
 - PA PAGE
 - CONC CONCRETE
 - TS CONFERM TREE

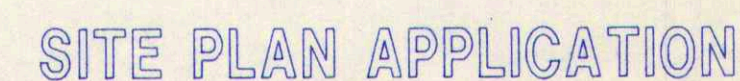
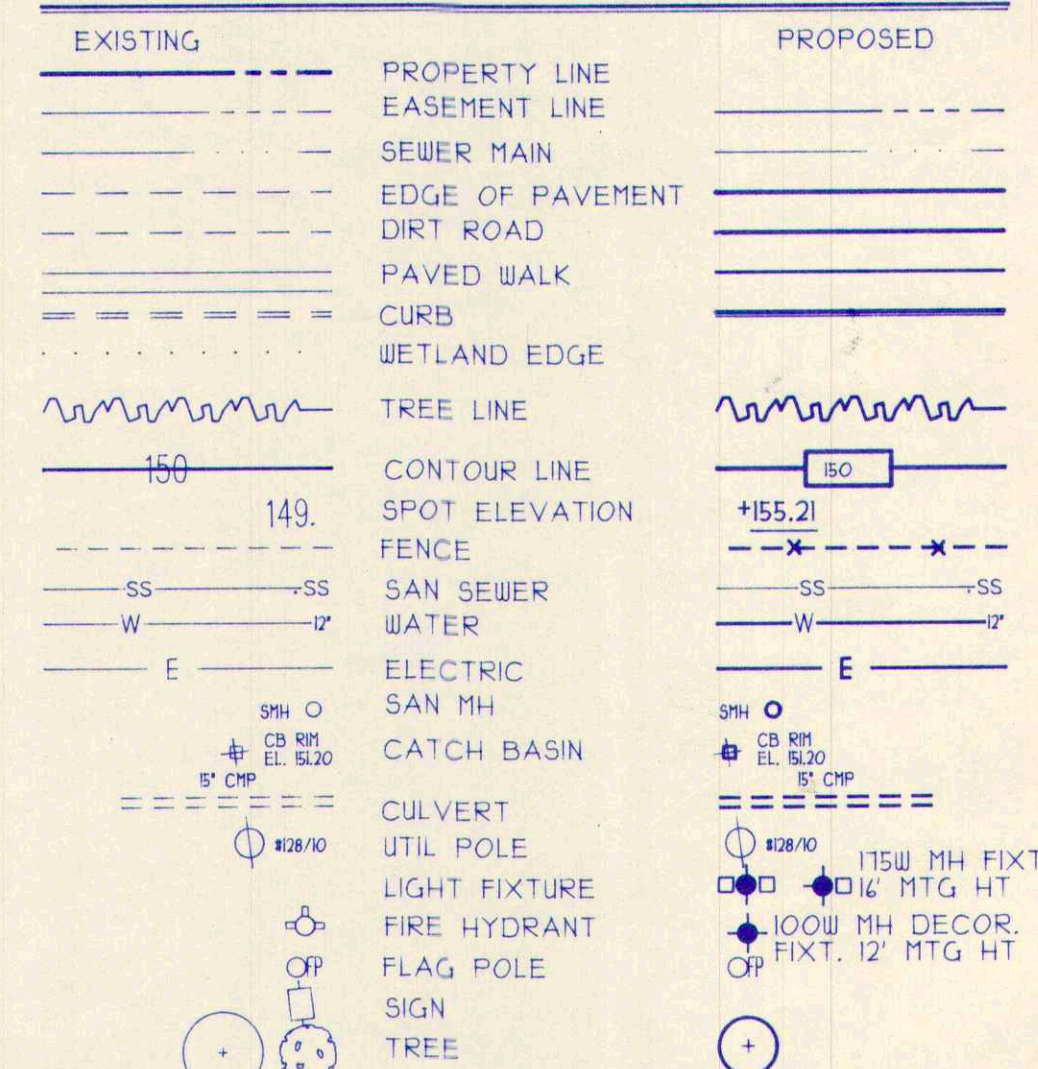
ADDENDUM TOPOGRAPHIC PLAN of
GREELY HIGH SCHOOL
CUMBERLAND, MAINE
SITE PLAN for
TERRIEN ARCHITECTS
130 PARK ST
PORTLAND, MAINE

Owen Haskell, Inc.		Land Surveyor	
Civil Engineer		Maine, Maine	
Drawn By: JMS	Date: 10/15/90	Job No:	
Traced By: JMS	Scale:	Drawn No:	
Checked By: JMS			
Approved: JMS			

EXISTING CONDITIONS - NORTH

L0.2

1. BASE INFORMATION DERIVED FROM THE FOLLOWING SOURCES:
 - A. SURVEY TITLED "STANDARD BOUNDARY SURVEY AND TOPOGRAPHIC PLAN PREPARED BY OJEN HASKELL INC. FOR S&D #51, DATED 4 JAN 1993.
 - B. SURVEY TITLED "ADDENDUM TOPOGRAPHIC PLAN OF GREELY HIGH SCHOOL, CUMBERLAND, MAINE BY OJEN HASKELL INC. DATED JUNE 8, 1990, S&D #51.
 - C. PLAIN DEPARTMENT OF TRANSPORTATION CONSTRUCTION PLANS FOR MAIN STREET-CUMBERLAND/NORTH YARMOUTH-DATED NOVEMBER 4, 1992, S&D #51.
2. PROPOSED DRIVEWAY OPENINGS AND WORK LIMITS WITHIN MOOT LIMIT OF WORK BY OTHERS. HSA0501 CONTRACT SHALL MEET MOOT PROJECT WORK LIMITS.
3. MAIN PLAN BASELINE SHOWN ON THIS PLAN SCALED FROM MOOT CONSTRUCTION PLANS REFERENCED ABOVE. CONFIRM LOCATIONS AND BEARINGS OF ALL WORK IN THIS PLAN TO MOOT CONSTRUCTION PLANS.
4. NEW DRAINAGE STRUCTURES WITHIN MOOT WORK LIMITS TAKEN FROM MOOT CONSTRUCTION PLANS.
5. LOTS 1 AND 2 SEEM DISBURSED AREAS NOT OTHERWISE PAVED OR DEVELOPED 1/8" MIN. LOAM AND PARK SEED MIX. PROVIDE MIN 5' B'YOND PAYMENT EDGE.
6. SEE DRAWING 15.2 FOR GRADING AND 15.3 FOR SIGNAGE.
7. ALL WORK SHALL BE COORDINATED W/ MOOT FIELD ENGINEER AND PLANS



2010\104MP03

GREELY H.S. & J.H.S. CIRCULATION IMPROVEMENTS

**M.S.A.D. #51 - Master Development Plan
PHASE 1 DEVELOPMENT
Cumberland Center, Maine**

REGISTERED LANDSCAPE ARCHITECT
THOMAS N. EMERY
No. 103
STATE OF MAINE

DATE: 21 APRIL 1992
REVISIONS:
15 JUNE 1992
PLANG. BD. INFO MTG
15 JULY 1992
P.B. 2ND INF MTG
24 SEPTEMBER 1992
SCHOOL BOARD
1 MARCH 1993
SITE PLAN 26 MAR 93

DRAWING NO.

L5.1

DeLuca Hoffman Assoc.Inc.
7778 Main St. Suite 8
South Portland, ME 04106
207 775-1121

**T E R R I E N
A R C H I T E C T S**

Terrien Architects, Inc.
4 Milk Street
Portland, Maine 04101
207 774-6016 Fax: 774-9128

I. BASE INFORMATION DERIVED FROM THE FOLLOWING SOURCES

- DeLuca Hoffman Assocs.Inc.
778 Main St. Suite 8
South Portland, ME 04106
207 775-1121

Terrien Architects, Inc.
4 Milk Street
Portland, Maine 04101
207 774-6016 Fax: 774-9

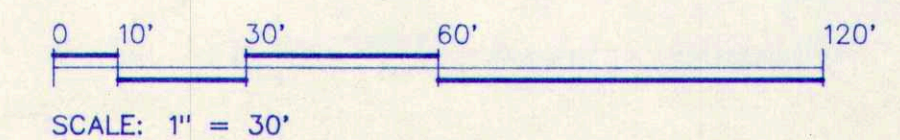
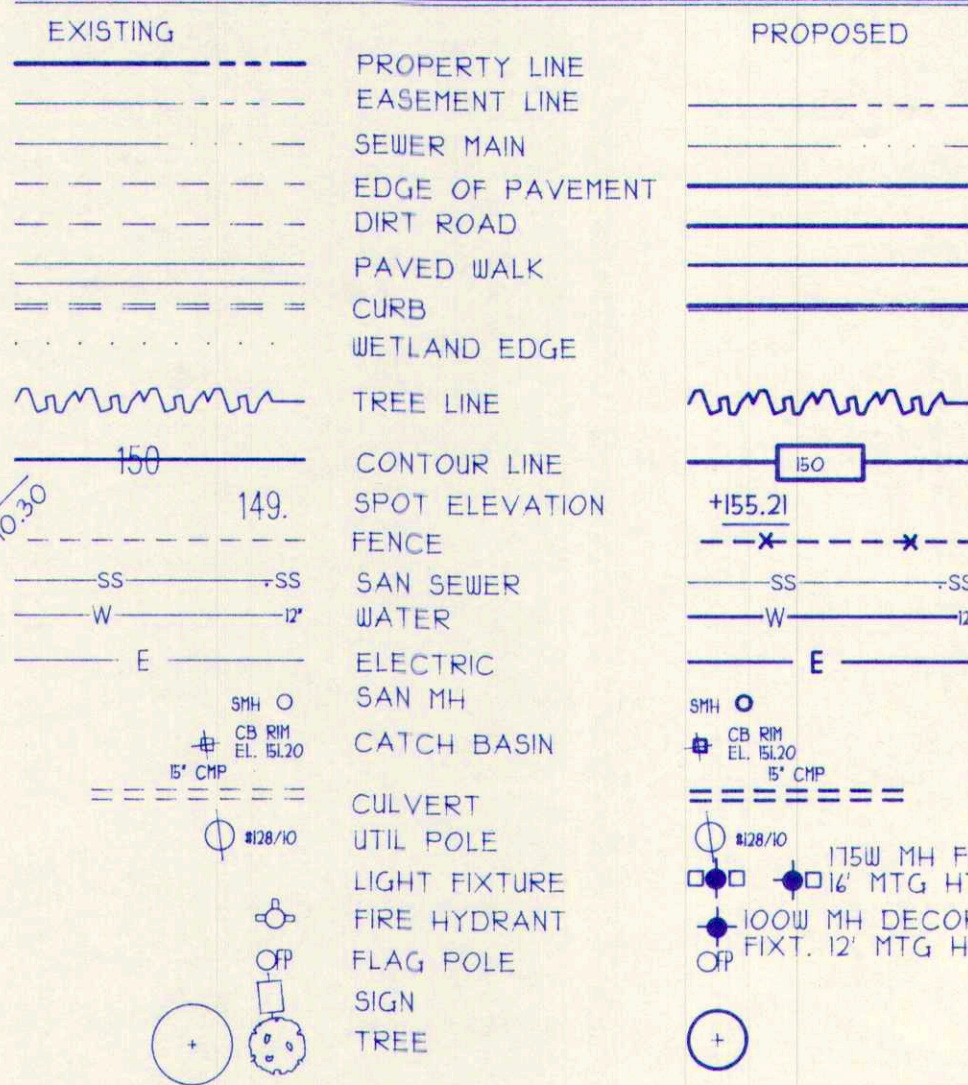
A circular professional seal for Thomas N. Emery. The outer ring contains the text "REGISTERED LANDSCAPE ARCHITECT" at the top and "STATE OF MAINE" at the bottom, separated by two small stars. The center of the seal contains the name "THOMAS N. EMERY" and the number "No. 103".

DATE: 21 APRIL 1992
REVISIONS:
15 JUNE 1992
PLANG. BD. INFO MTG.
15 JULY 1992
P.B. 2ND INF MTG
24 SEPTEMBER 1992
SCHOOL BOARD
1 MARCH 1993
SITE PLAN 26 MAR 93
© 1992 Terrien Architects, Inc.

DRAWING NO.

L5.2

GREELY H.S. & J.H.S. CIRCULATION IMPROVEMENTS



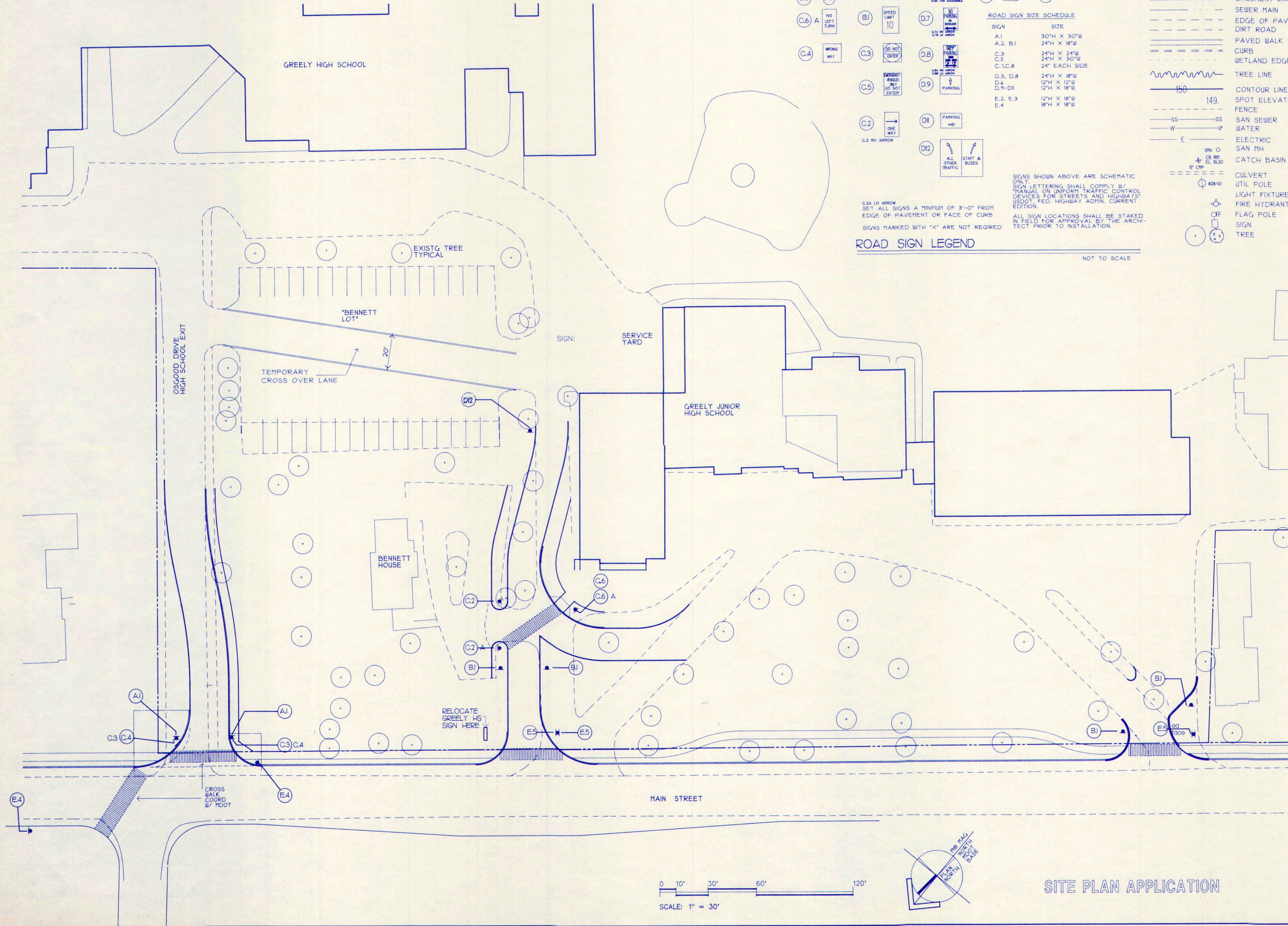
SITE PLAN APPLICATION

GRADING PLAN

2010\104MP03

GENERAL NOTES

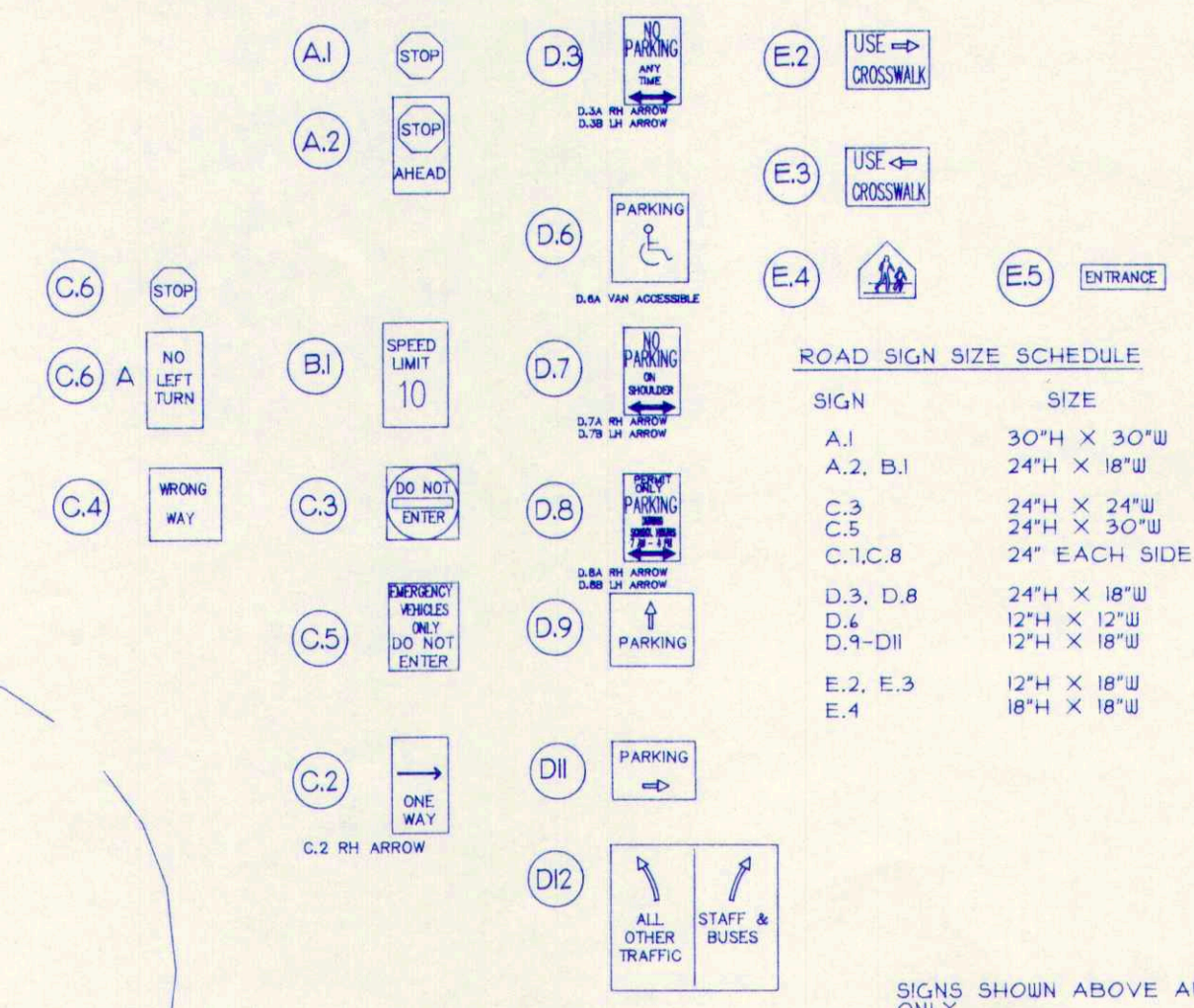
- BASE INFORMATION DERIVED FROM THE FOLLOWING SOURCES:
 - SURVEY TITLED "STANDARD BOUNDARY SURVEY AND TOPOGRAPHIC PLAN PREPARED BY OWEN HASKELL INC. FOR S&D #51, DATED 4 JAN 1993.
 - SURVEY TITLED "ADDENDUM TOPOGRAPHIC PLAN OF GREELY HIGH SCHOOL, CUMBERLAND, MAINE BY OWEN HASKELL INC. DATED JUNE 5, 1990, SCALE 1"=30'.
 - MAINE DEPARTMENT OF TRANSPORTATION CONSTRUCTION PLANS FOR MAIN STREET-CUMBERLAND/NORTH YARMOUTH-DATED NOVEMBER 4, 1992, SCALE 1"=25'.
- PROPOSED DRIVEWAY OPENINGS AND WORK LIMITS WITHIN MDOT LIMIT OF WORK BY OTHERS. MSAD#51 CONTRACT SHALL MEET MDOT PROJECT WORK LIMITS.
- MAIN STREET BASELINE SHOWN ON THIS PLAN SCALED FROM MDOT CONSTRUCTION PLANS REFERENCED ABOVE. CONFIRM LOCATION AND BEARINGS FOR NEW WORK IN FIELD USING MDOT BASE LINE.
- NEW DRAINAGE STRUCTURES WITHIN MDOT WORK LIMITS TAKEN FROM MDOT CONSTRUCTION PLANS.
- LOAM AND SEED ALL DISTURBED AREAS NOT OTHERWISE PAVED OR DEVELOPED 1/2" MIN. LOAM AND PARK SEED MIX. PROVIDE MIN 5' BEYOND PAVEMENT EDGE.
- SEE DRAWING L5.5 FOR TYP P/PRINT DTLS.
- SEE DRAWING L5.2 FOR GRADING AND L5.3 FOR SIGNAGE.
- ALL WORK SHALL BE COORDINATED W/ MDOT FIELD ENGINEER AND PLANS.



A/B/C

D

E



LEGEND

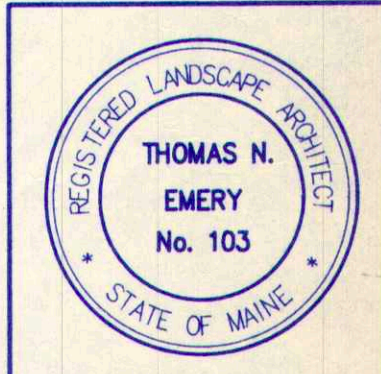
EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
EASEMENT LINE	EASEMENT LINE
SEWER MAIN	SEWER MAIN
EDGE OF PAVEMENT	EDGE OF PAVEMENT
DIRT ROAD	DIRT ROAD
PAVED WALK	PAVED WALK
CURB	CURB
WETLAND EDGE	WETLAND EDGE
TREE LINE	TREE LINE
CONTOUR LINE	CONTOUR LINE
SPOT ELEVATION	SPOT ELEVATION
FENCE	FENCE
SAN SEWER	SAN SEWER
WATER	WATER
ELECTRIC	ELECTRIC
SAN MH	SAN MH
CATCH BASIN	CATCH BASIN
CULVERT	CULVERT
UTIL POLE	UTIL POLE
LIGHT FIXTURE	LIGHT FIXTURE
FIRE HYDRANT	FIRE HYDRANT
FLAG POLE	FLAG POLE
SIGN	SIGN
TREE	TREE

ROAD SIGN LEGEND

NOT TO SCALE

GREELY H.S. & J.H.S. CIRCULATION IMPROVEMENTS

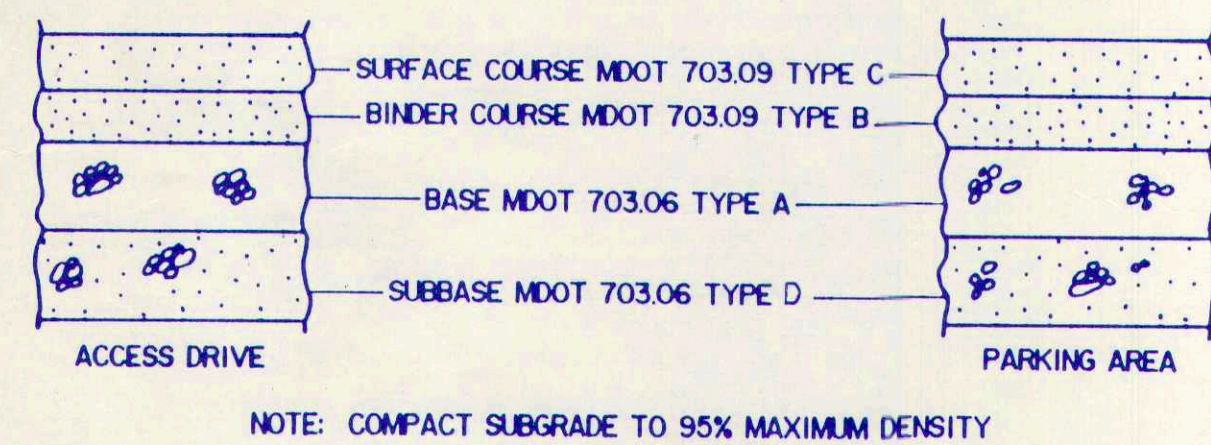
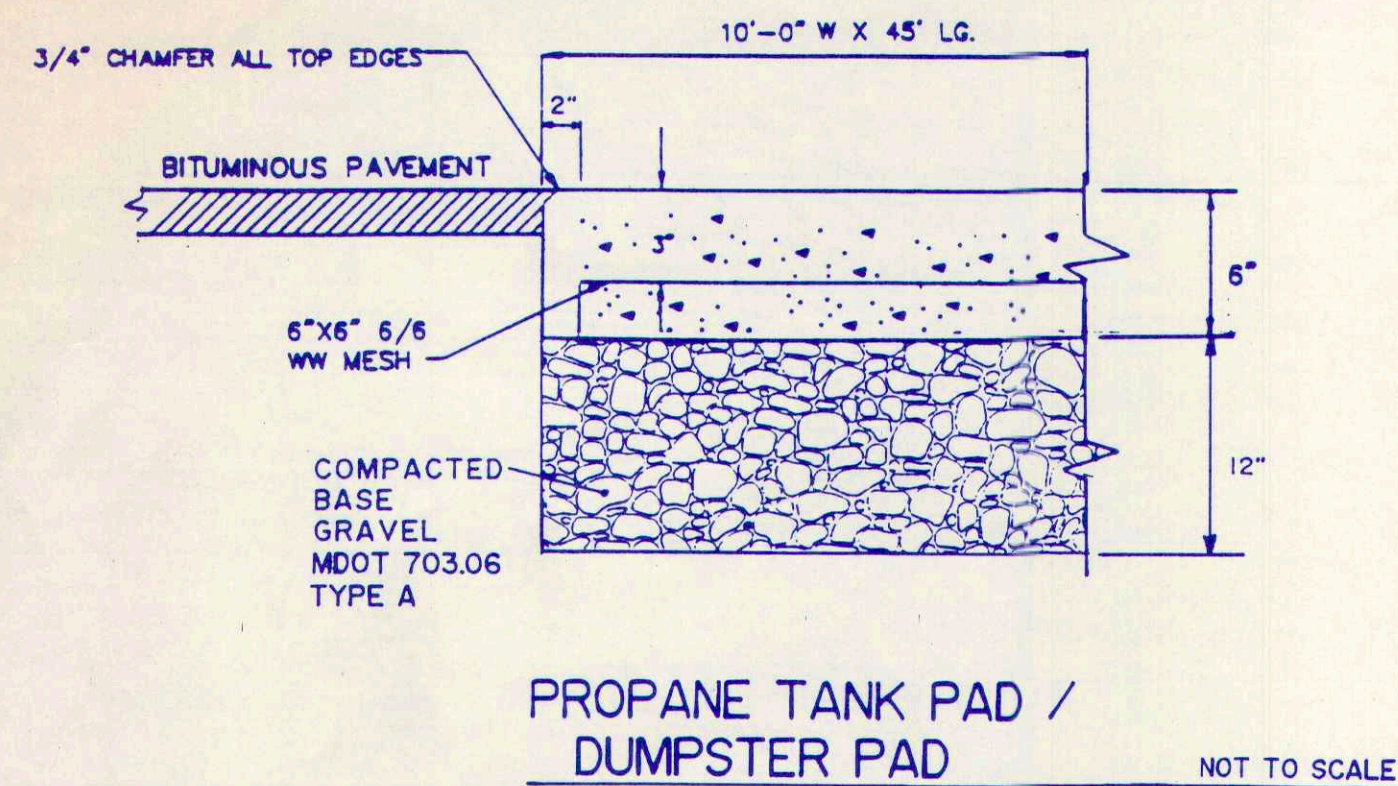
M.S.A.D. #51 - Master Development Plan
PHASE 1 DEVELOPMENT
Cumberland Center, Maine



DATE: 21 APRIL 1992
 REVISIONS:
 15 JUNE 1992
 PLANG. BD. INFO MTG.
 15 JULY 1992
 P.B. 2ND INF MTG
 24 SEPTEMBER 1992
 SCHOOL BOARD
 1 MARCH 1993
 SITE PLAN 26 MAR 93
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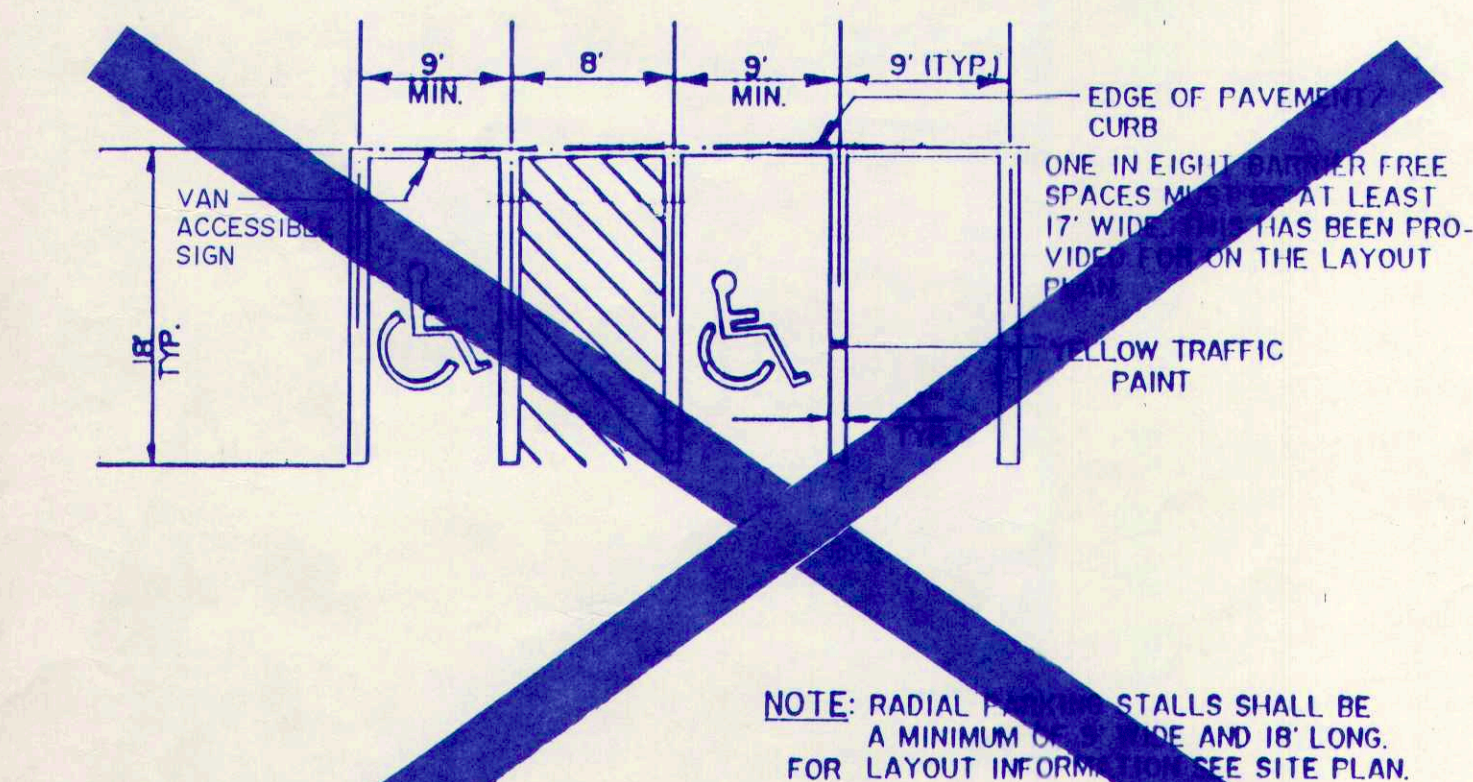
DRAWING NO.
L5.3

2010104MP03

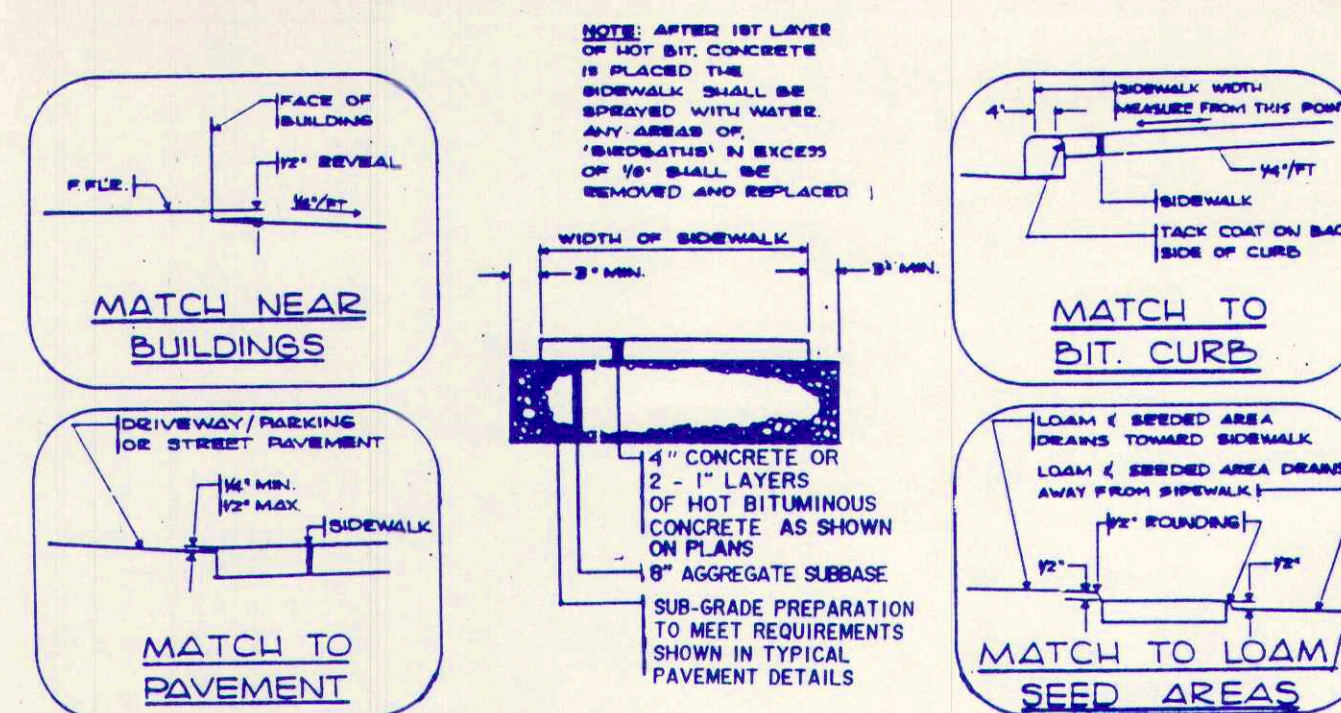


THICKNESS OF LAYERS		
ACCESS DRIVE	LAYERS	PARKING AREA
1 1/4"	SURFACE COURSE MDOT 703.09 TYPE C	1 1/4"
1 3/4"	BINDER COURSE MDOT 703.09 TYPE B	1 3/4"
3"	BASE MDOT 703.06 TYPE A	3"
15"	SUBBASE MDOT 703.06 TYPE D	15"

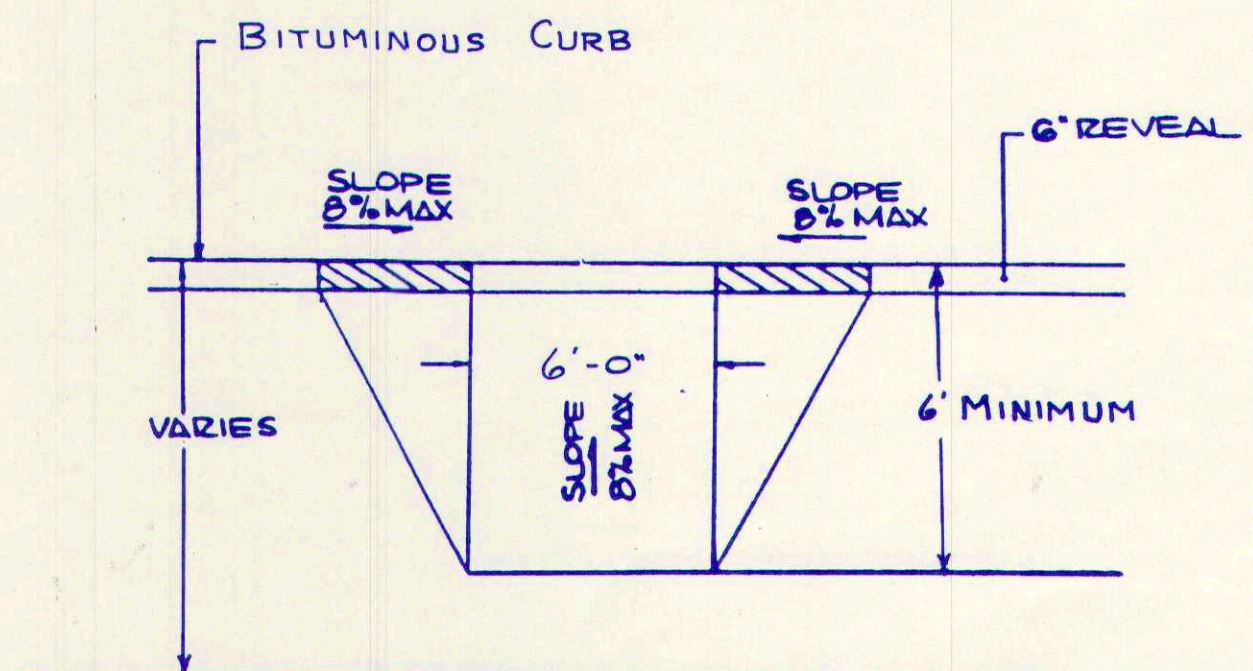
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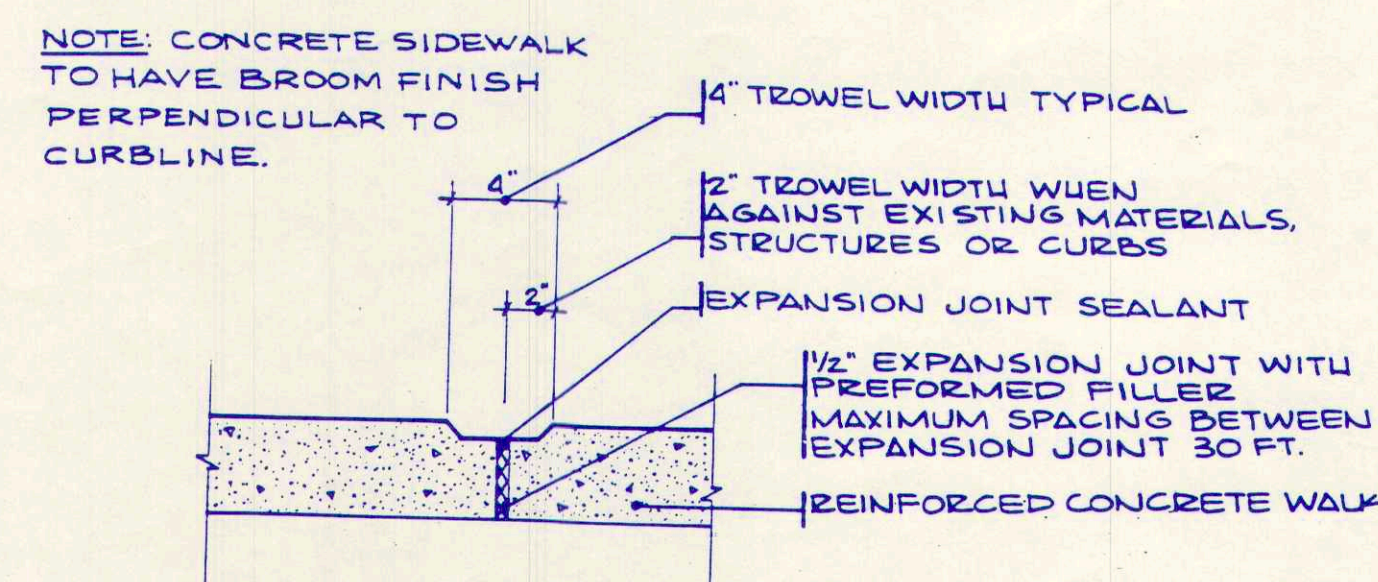
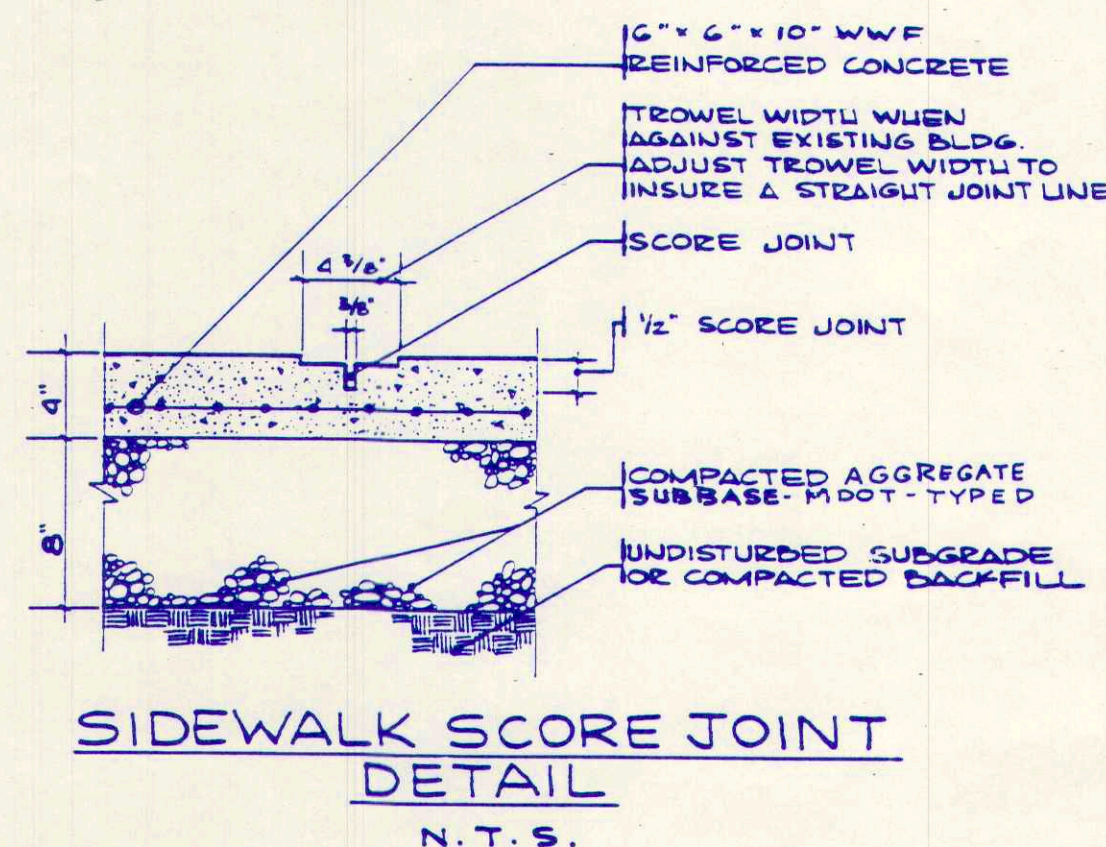
TYPICAL PARKING SPACE LAYOUT NOT TO SCALE



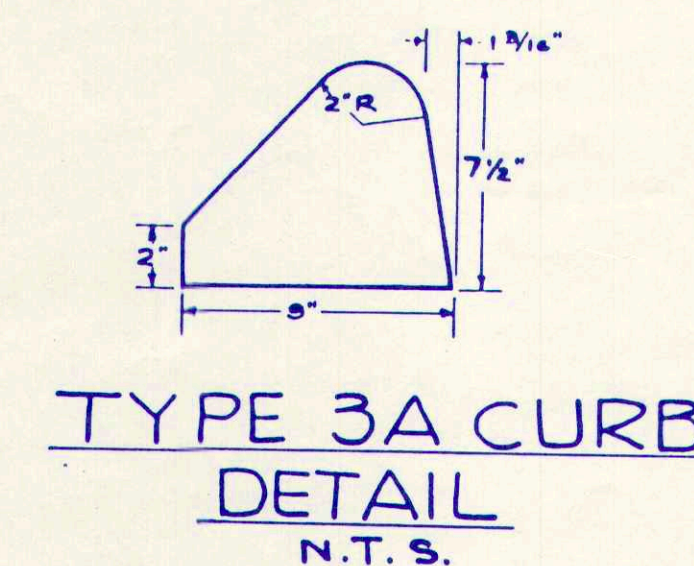
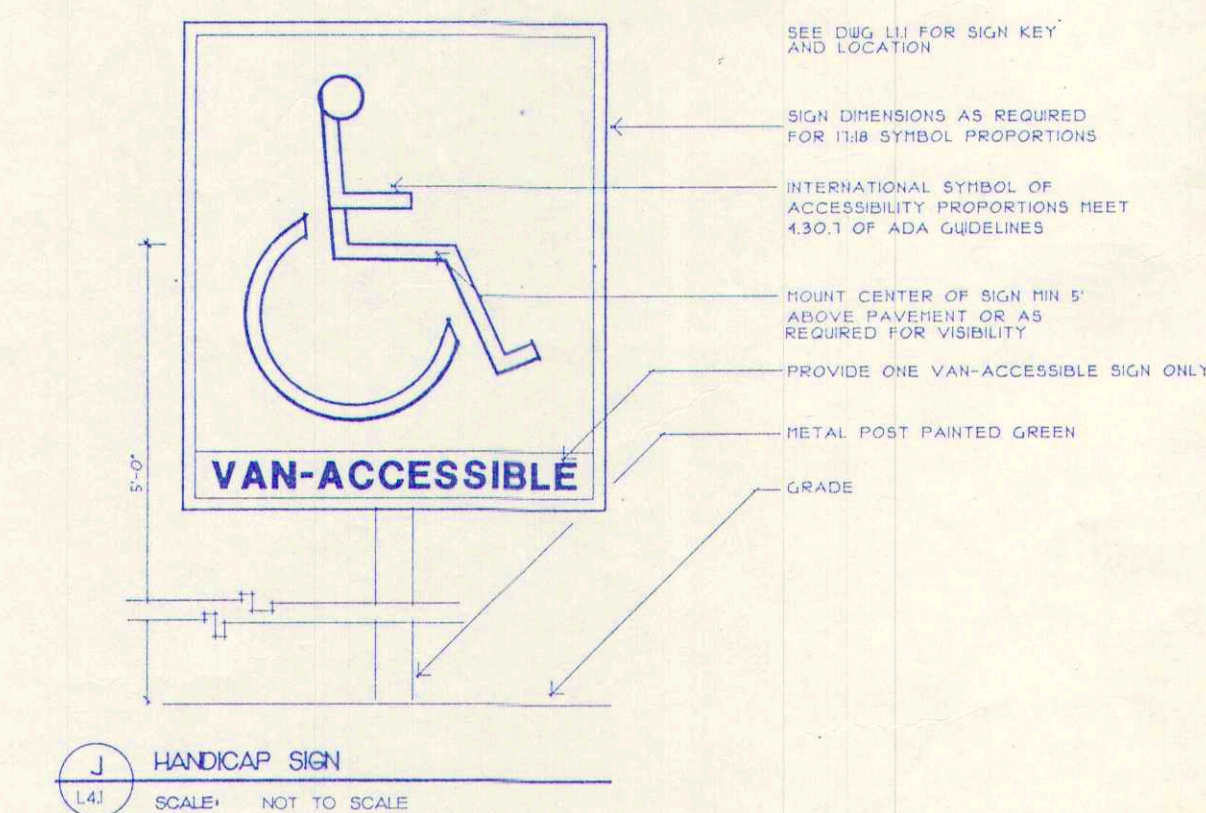
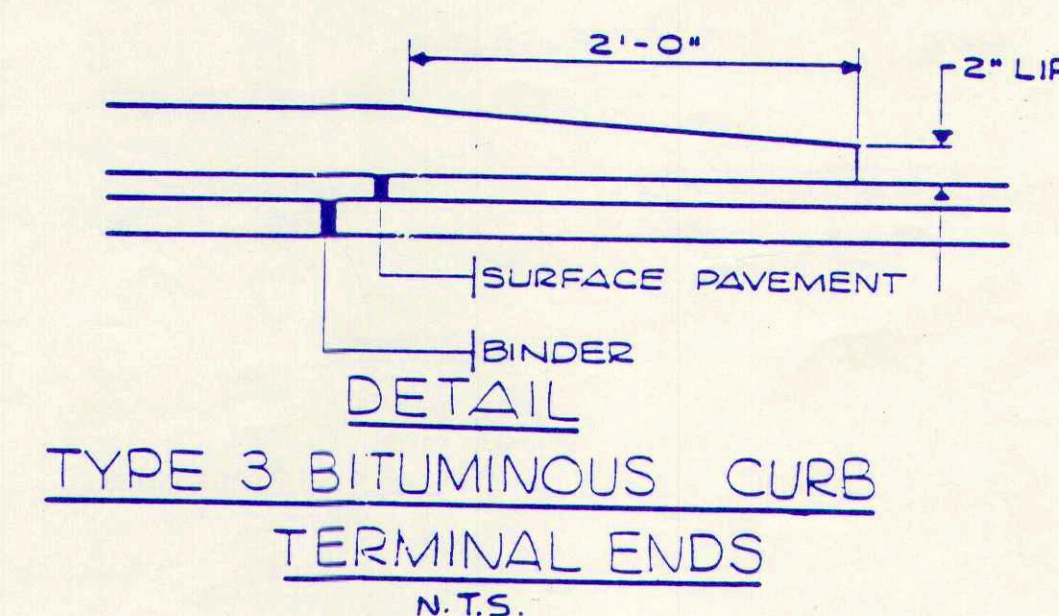
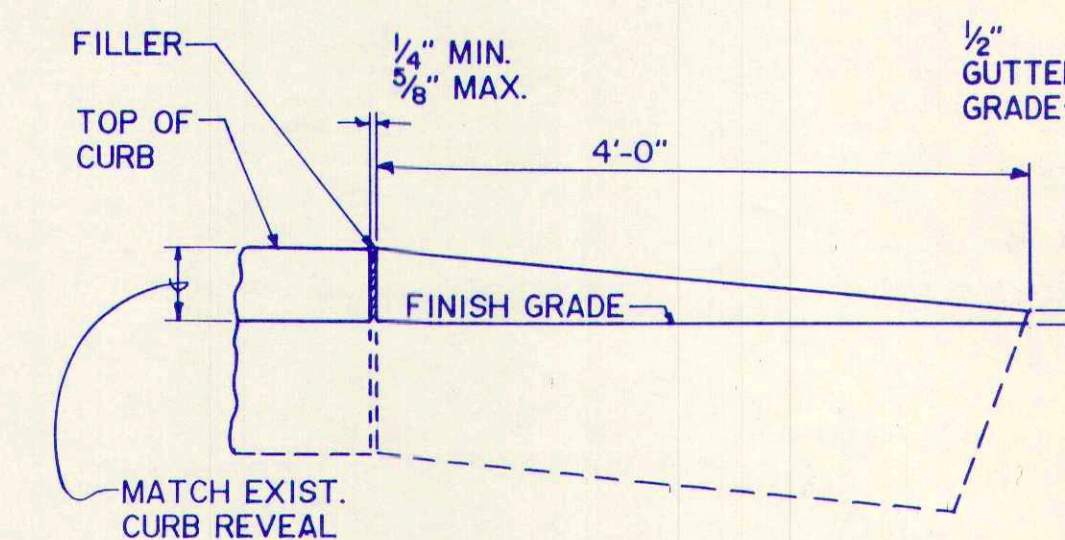
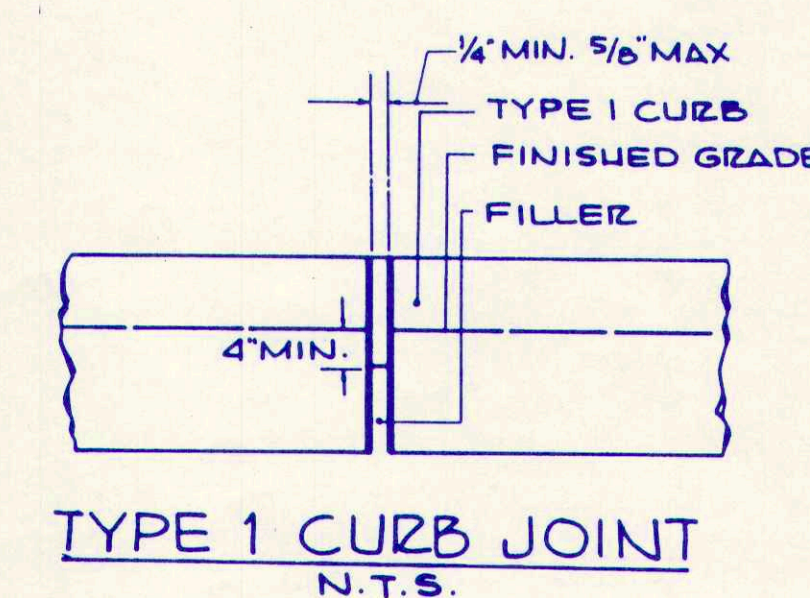
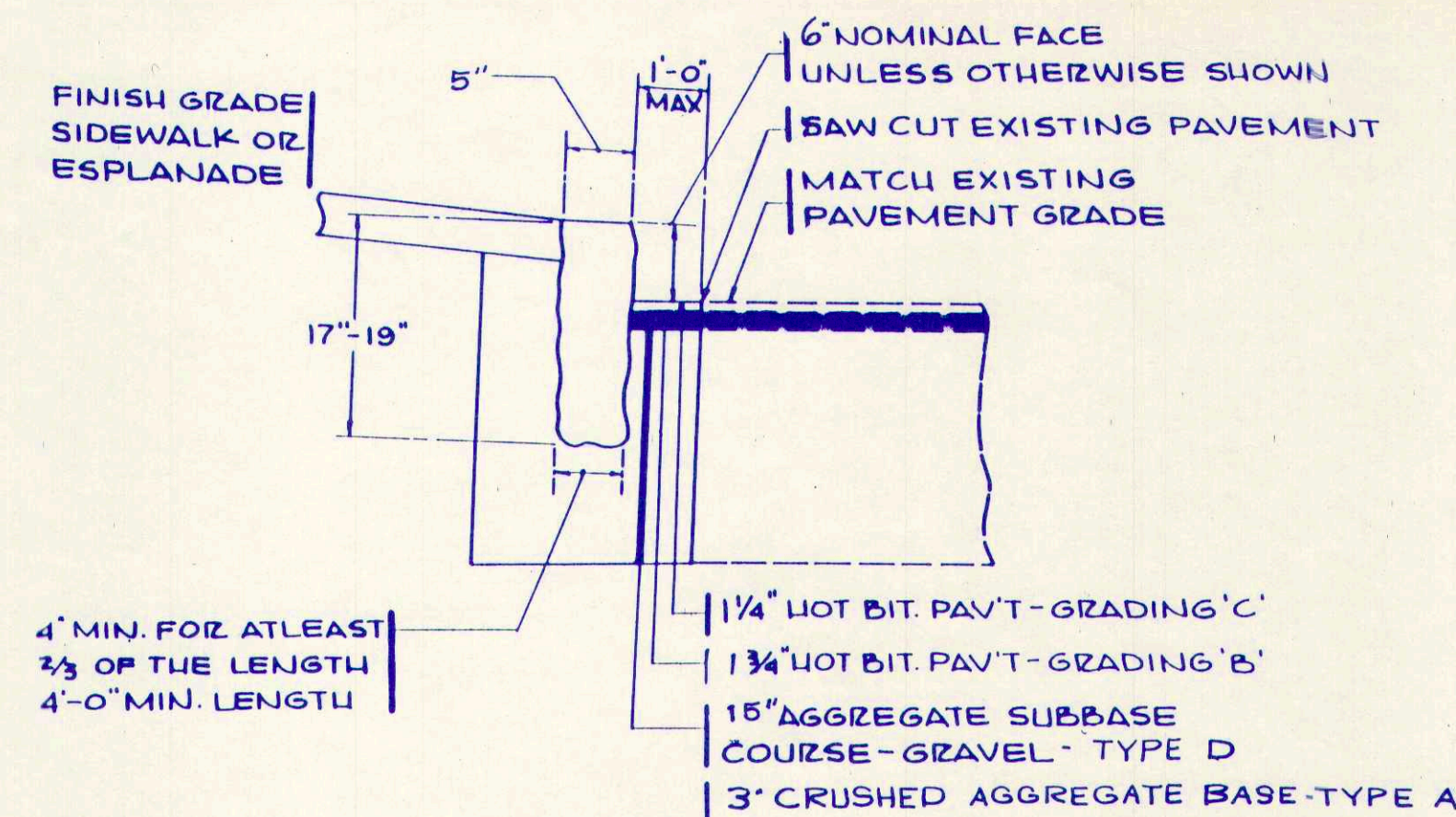
SIDEWALK DETAIL NOT TO SCALE



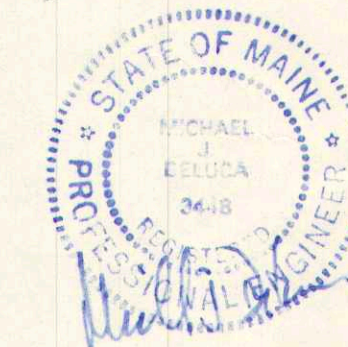
SIDEWALK RAMP DETAIL NOT TO SCALE



SIDEWALK EXPANSION JOINT DETAIL N.T.S.



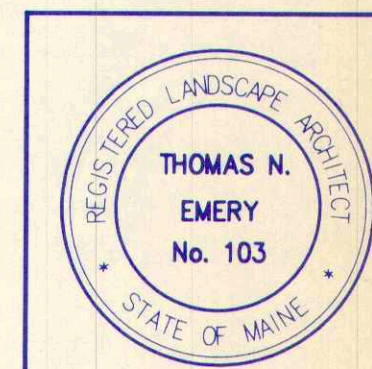
SITE PLAN APPLICATION
SITE DETAILS - PAVEMENT



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GREELY H.S. & J.H.S. CIRCULATION IMPROVEMENTS

M.S.A.D. 51 - Master Development Plan PHASE 1 DEVELOPMENT Cumberland Center, Maine



DATE: 14 DEC 1992
REVISIONS:
SITE PLAN 4 JAN 93
SITE PLAN 1 MARCH 93
REV LIGHTG 16 MAR 93
SITE PLAN 26 MARCH 93

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DRAWING NO.

L5.5

14.5 Temporary Control Measures

The following are planned as temporary erosion and sedimentation control measures during construction of the proposed school expansion project:

- Siltation fence shall be installed along the downgradient side of all earthwork operations.
- Hay bales shall be installed where required to supplement the siltation fence.
- Stone check dams shall be installed within drainage ditches at an interval not to exceed 200 longitudinal feet along the ditch flowline.
- Any temporary stockpiles of grubbing, common excavation, or topsoil will be protected as follows:
 - Stockpile shall not be located on an area exhibiting existing topographic slopes greater than 10% nor within areas of concentrated runoff.
 - Stockpile shall be located greater than 100 linear feet from any intermittent or perennial stream.
 - Stockpile shall be stabilized by covering with mulch and fabric netting anchored in accordance with manufacturer's recommendations, if the stockpile is to remain in place over 21 days.
 - Install siltation fence along the downgradient side of the stockpile.
- All denuded areas which have been rough graded and are not located within the building or pavement subbase areas shall receive mulch.
- Tuttle Road and Route 9 shall be swept, washed, and/or have calcium chloride applied to control mud and dust.
- Erosion control mesh shall be installed within all drainage ditches not planned to receive riprap. Riprap and erosion control mesh shall be installed within 48 hours of ditch construction.

14.6 Sedimentation Pond

The Stormwater Detention Facility associated with the expansion of the Mabel I. Wilson school project may be available to enhance the sediment control for this project. If available it will be used; however, it is not necessary.

14.7 Permanent Control Measures

The following permanent erosion and sedimentation control measures have been designed as part of the proposed school expansion project:

- All drainage ditches will be constructed with riprap lining where runoff velocities exceed 1.5 feet per second. Riprap lining shall be installed within 48 hours of ditch construction.
 - All culverts and stormdrain field inlets and outlets will have riprap aprons.
 - All areas disturbed during construction, but not subject to other restoration (paving, riprap, etc.) will be loamed, lined, fertilized, mulched, and seeded in accordance with the seeding plan contained within Appendix A of this report. Fabric netting shall be placed over the mulch in areas exhibiting a slope greater than 10%.
- The following site construction sequence is planned for the project site to insure the effectiveness of the erosion and sedimentation control measures are optimized. This schedule shall be coordinated and incorporated within the building and project construction schedules.
- Install and toe in siltation fence.
 - Site preparation (clear, grub, strip topsoil, pavement removal, etc.) of construction area.
 - Install surface drainage ditch along the southeasterly limits of the project site to convey runoff to the detention facility. Stabilize the ditch within 48 hours of final grading.
 - Install stormdrain system.
 - Construct gravel road and parking areas; place subbase gravel.
 - At this point, all temporary erosion control measures (stone check dams, stone barrier, catch basin inlets, erosion control mesh, etc.) shall be installed where indicated on the Contract Drawings or as outlined within this report.
 - Lime, loam, fertilizer, mulch and seed all denuded areas.
 - At this point, all permanent erosion control measures shall be in place where indicated on the Contract Drawings or as outlined within this report.

- Install base gravels.
 - Remove stone barriers from around catch basin inlets.
 - Remove accumulated sediment from silt barriers.
 - Remove temporary erosion control measures.
 - Repair and replace disturbed loam and seed areas.
- NOTE: All denuded areas not part of the road/parking areas, or riprap shall be revegetated.

The project will be bid to General Building Contractors. The project is anticipated to begin in the summer of 1993 with site work completed by late fall of 1993. The General Contractor shall submit a schedule for the completion of the site work which will satisfy the following criteria:

- Items a through m of the construction sequence must be completed in the specified order with respect to erosion control measures.
- The work shall be conducted in phases which will:
 - Limit amount of exposed area to work areas expected to be undertaken during the next 30 days.
 - Revegetate disturbed areas as rapidly as possible.
 - Incorporate storm drain system and drainage ditches as early as possible into the construction phase. The ditches shall be immediately lined or revegetated within 48 hours after installation is complete.
 - During the construction process, before final grade is established, all disturbed areas shall be covered with mulch within 14 days.
 - If the Summer/Fall construction schedule is not possible and construction is planned between October 15 and April 15 of any calendar year, then the General Contractor shall submit a schedule which will satisfy the following criteria:
 - Limit the amount of exposed area to work areas intended to be undertaken, during the next 30 days.
 - Incorporate planned ditches and drainage systems as early as possible. The ditches shall be immediately lined with mulch and erosion control mesh or riprap where indicated on the plans.
 - Once final grade has been established, the contractor may choose to dormant seed the disturbed areas prior to placement of mulch and erosion control mesh.
 - If dormant seeding is used for the site, all disturbed areas shall receive 4" of loam and seed at an application rate of 2.44/1000 S.F. All areas seeded during the winter months will be inspected in the spring for adequate catch. All areas insufficiently vegetated (less than 75% catch) shall be revegetated by replacing loam, seed and mulch.
 - If dormant seeding is not used for the site, all disturbed areas shall be revegetated in the spring.

The schedule will be subject to the approval of the owner, his authorized representatives and the Cumberland County Soil and Water Conservation District.

14.9 Provisions for Maintenance of the Erosion/Sedimentation Control Features

The Contractor will be required to designate, by name, a person responsible for implementation of all erosion control measures. Specific responsibilities will include:

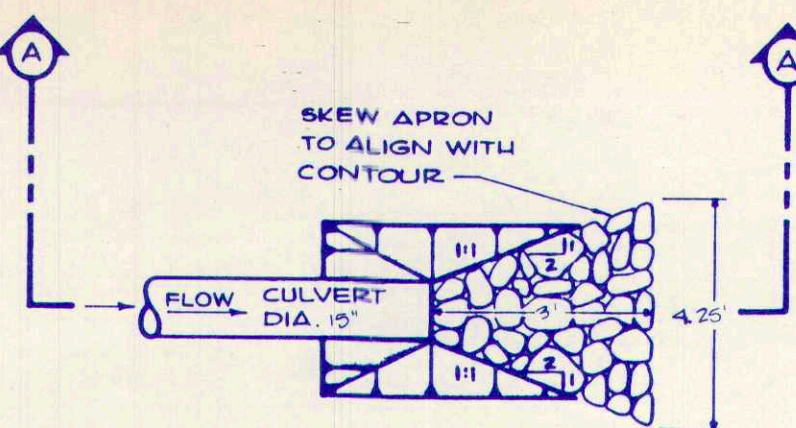
- Assuring and certifying the Contractor's construction sequence is in conformance with the specified schedule of this report. A bi-weekly certification stating compliance, any deviations, and corrective measures shall be filed by this person with the owner, Town of Cumberland, and the Cumberland County Soil Conservation District.
- Inspection of the project work site on a weekly basis, with the installation of added erosion control measures in areas which appear vulnerable to erosion.
- Inspection of all erosion control measures and drainage inlets after any significant rainfall. Accumulated silt/sediment should be removed when the depth of sediment reaches 50% of the barrier height or six inches, whichever is less. A significant rainfall shall be defined as over 1/2 inch of precipitation in any consecutive 24 hour period.
- Inspect areas for catch of grass. A minimum catch of 75% is required prior to removal of erosion control measures.
- Final payment of an amount equal to 2% of the Contract will not be released until the Owner has determined a suitable catch of grass has been established in all areas of vegetation.

The Cumberland School Department and Town of Cumberland shall have the right, duty and obligation to provide for the proper operation and maintenance of all stormwater management detention facilities located within the school site as shown on the plans. The Cumberland School Department may contract with such professionals as is necessary in order to comply with this provision and may rely on the advice of such professionals in carrying out its duty hereunder, provided, however, that the following operation and maintenance procedures are hereby established as a minimum for compliance with this section:

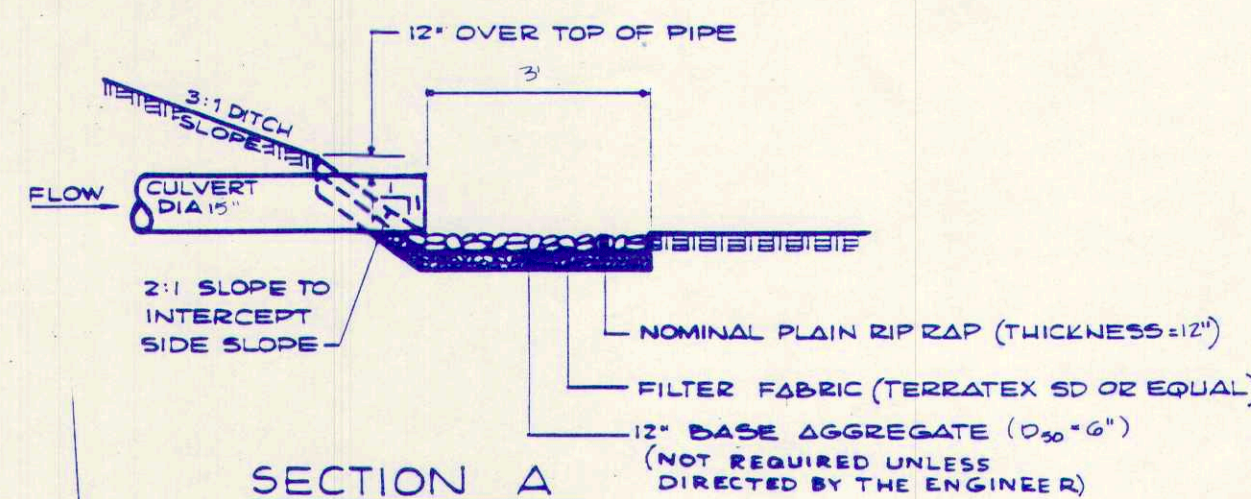
- Inspect the outlet control structures on a bimonthly basis.
- Measure accumulated sediment across the entire pond every five (5) years. When removal is required, sediments will be excavated and removed from the site to compensate for lost storage. Realistically, this will probably be easier to accomplish by a concentrated excavation downstream of the pond entrance. A ten (10) to twenty (20) year frequency is anticipated for pond sediment removal.

14.10 Compliance

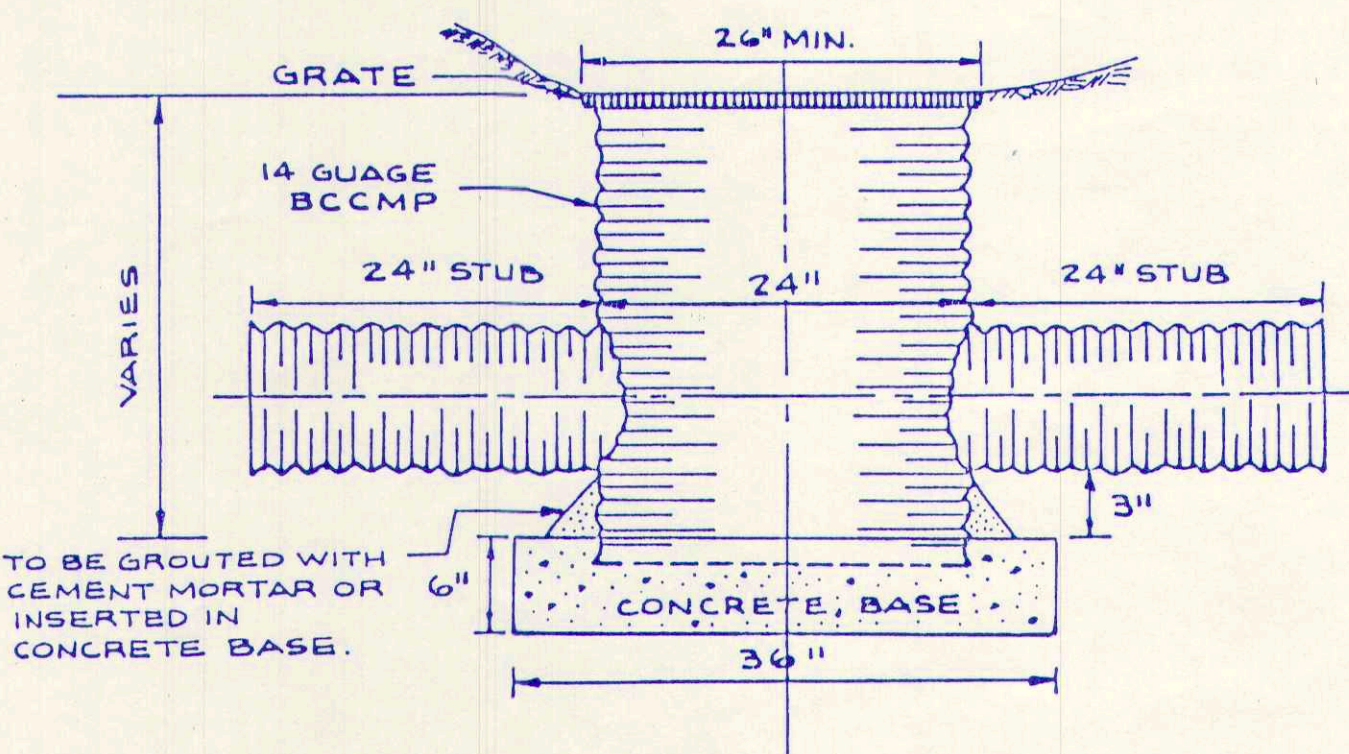
- The Erosion and Sedimentation Control Plan shall be made part of the bid documents. The Cumberland School Department and Town of Cumberland will insure compliance by monitoring the site and withholding payment for items not completed.
- The Cumberland School Department and Town of Cumberland will have the authority to stop construction if the Erosion and Sedimentation Control Plan is not adhered to and to employ a separate contractor to undertake these items.



PLAN VIEW



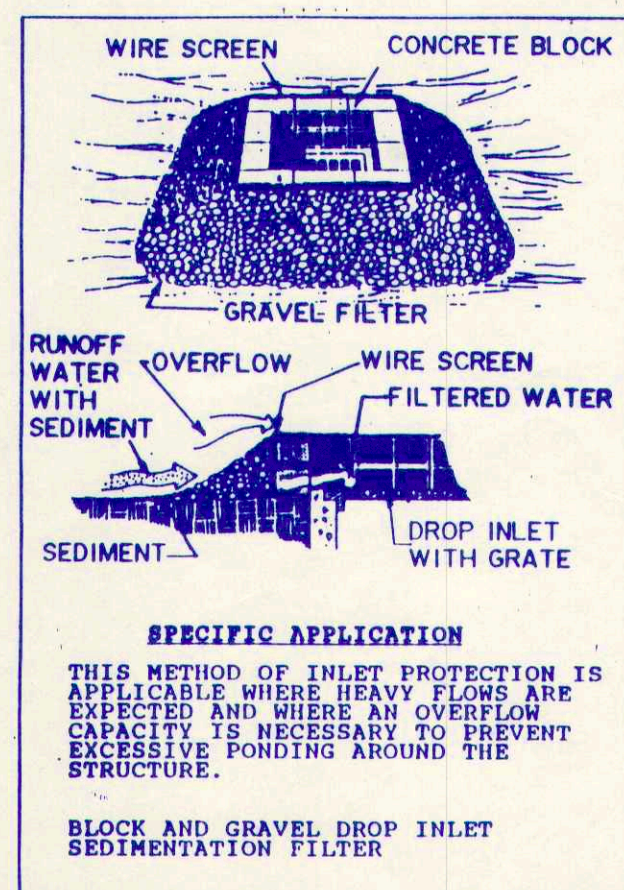
CULVERT OUTLET APRON
NOT TO SCALE



- NOTES:
- EXCESS PIPE TO BE CUT AND FOLDED AGAINST THE INSIDE WALL OF CATCH BASIN.
 - GRATE TO BE BETHERIDGE FOUNDRY V24G OR EQUAL.

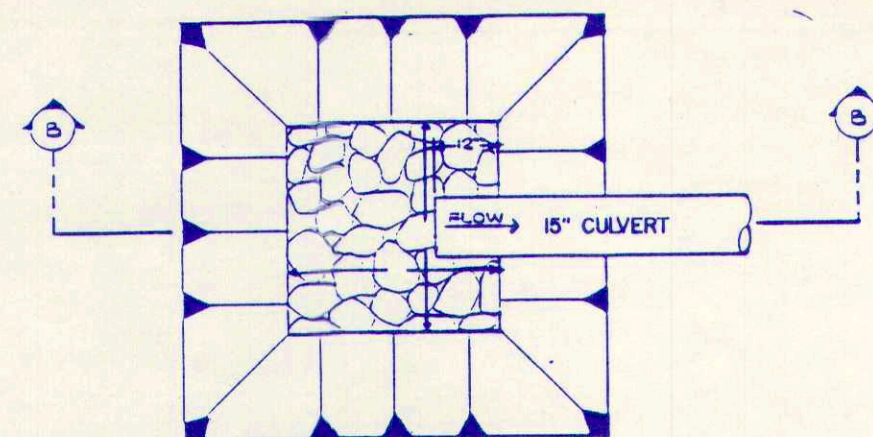
TYPE "E" CATCH BASIN

N.T.S.

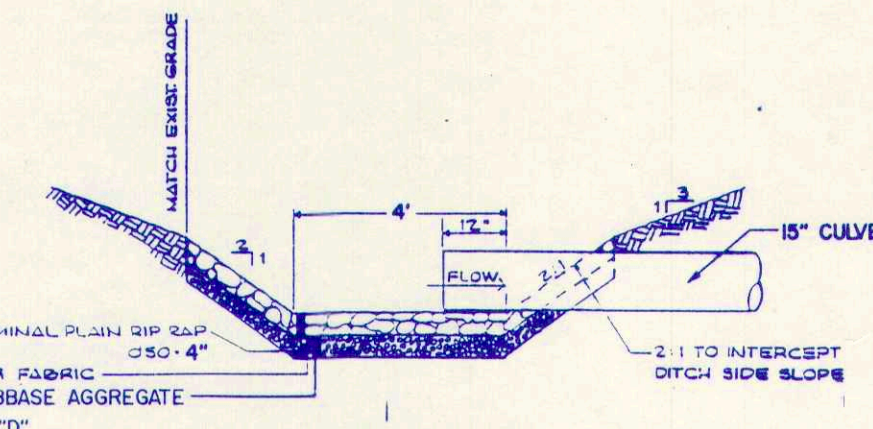


STONE SEDIMENT BARRIER

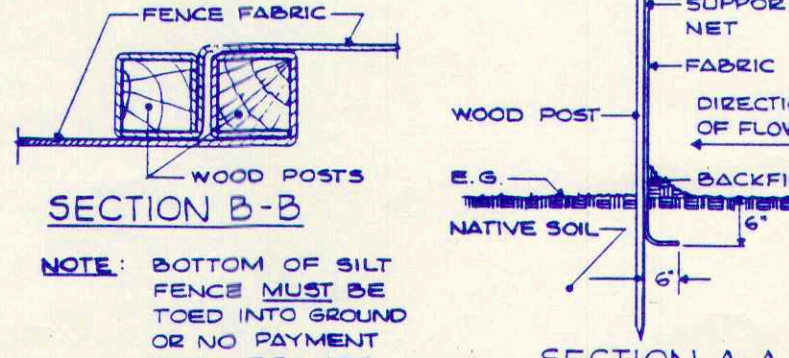
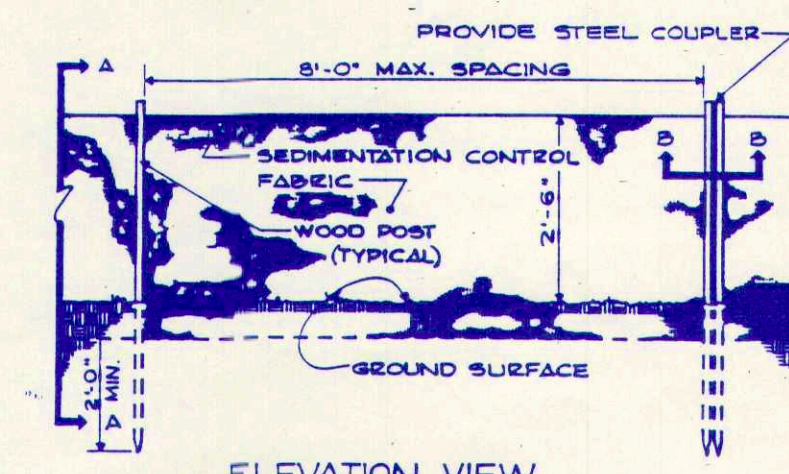
N.T.S.



PLAN VIEW
CULVERT INLET DETAIL
N.T.S.

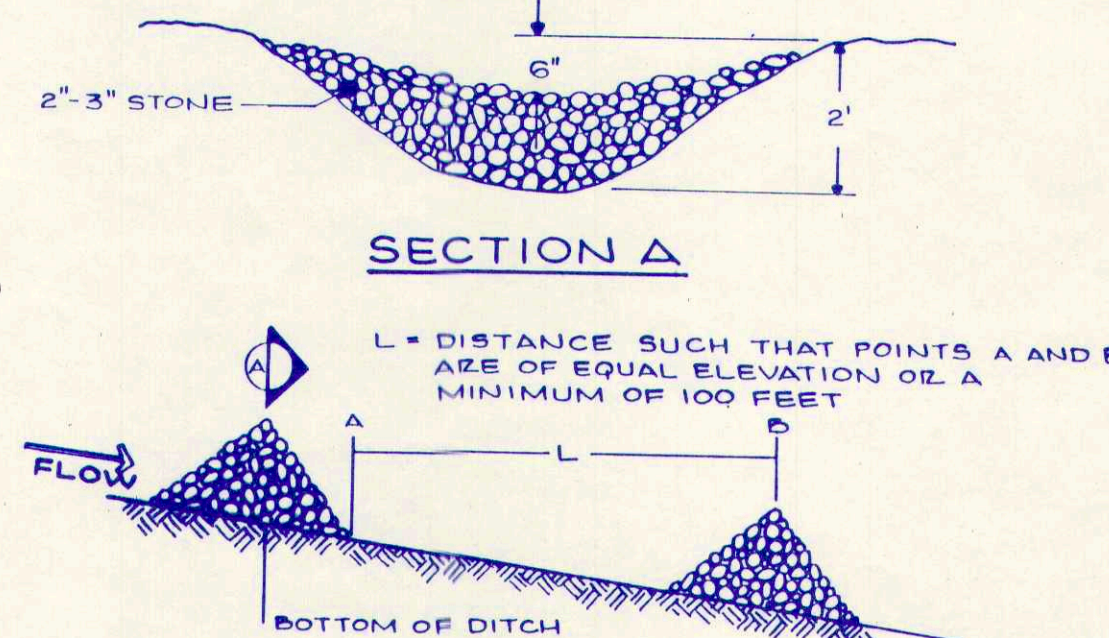


SECTION B-B
CULVERT INLET DETAIL
N.T.S.

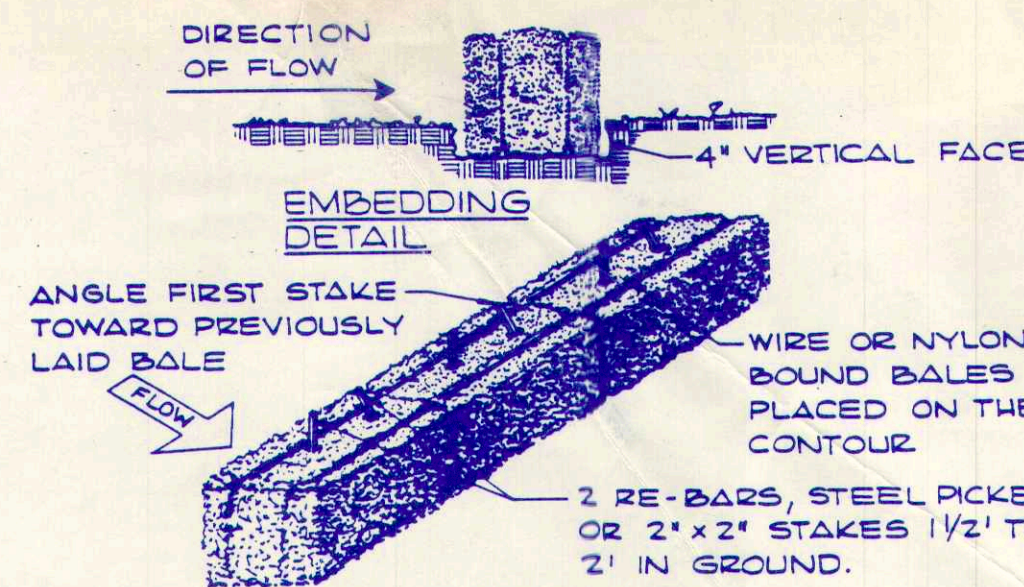


SILTATION FENCE DETAIL

N.T.S.



STONE CHECK DAM DETAIL
N.T.S.



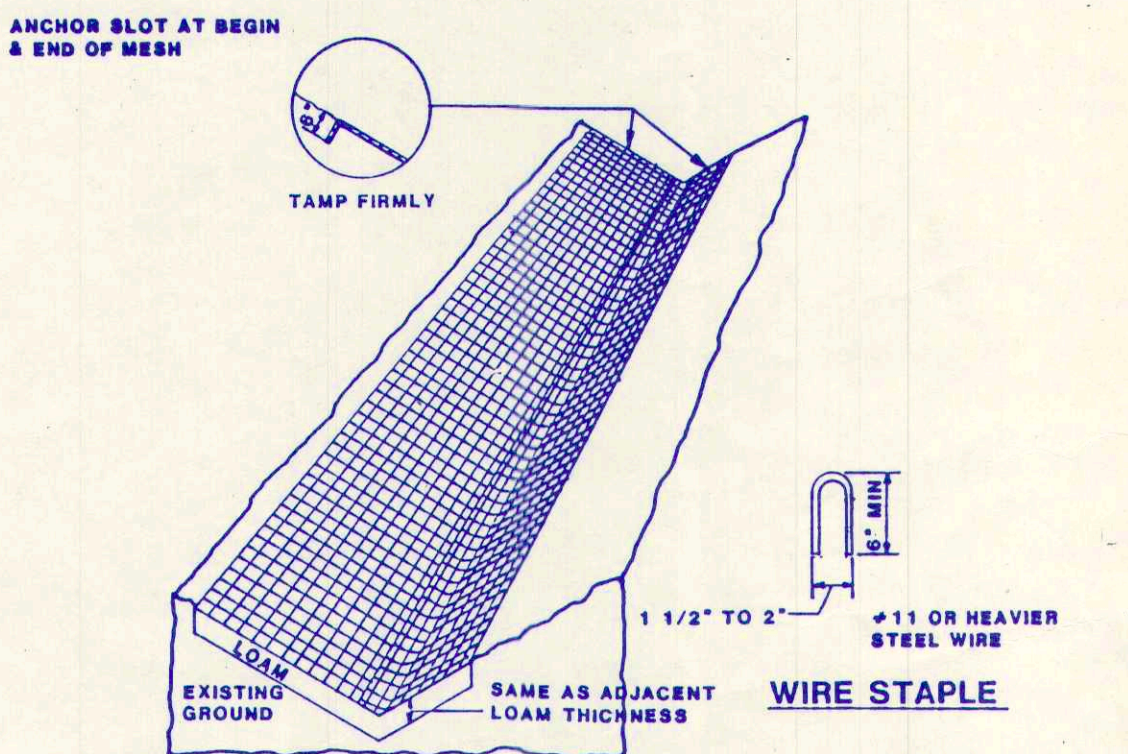
ANCHORING
DETAIL

CONSTRUCTION SPECIFICATIONS

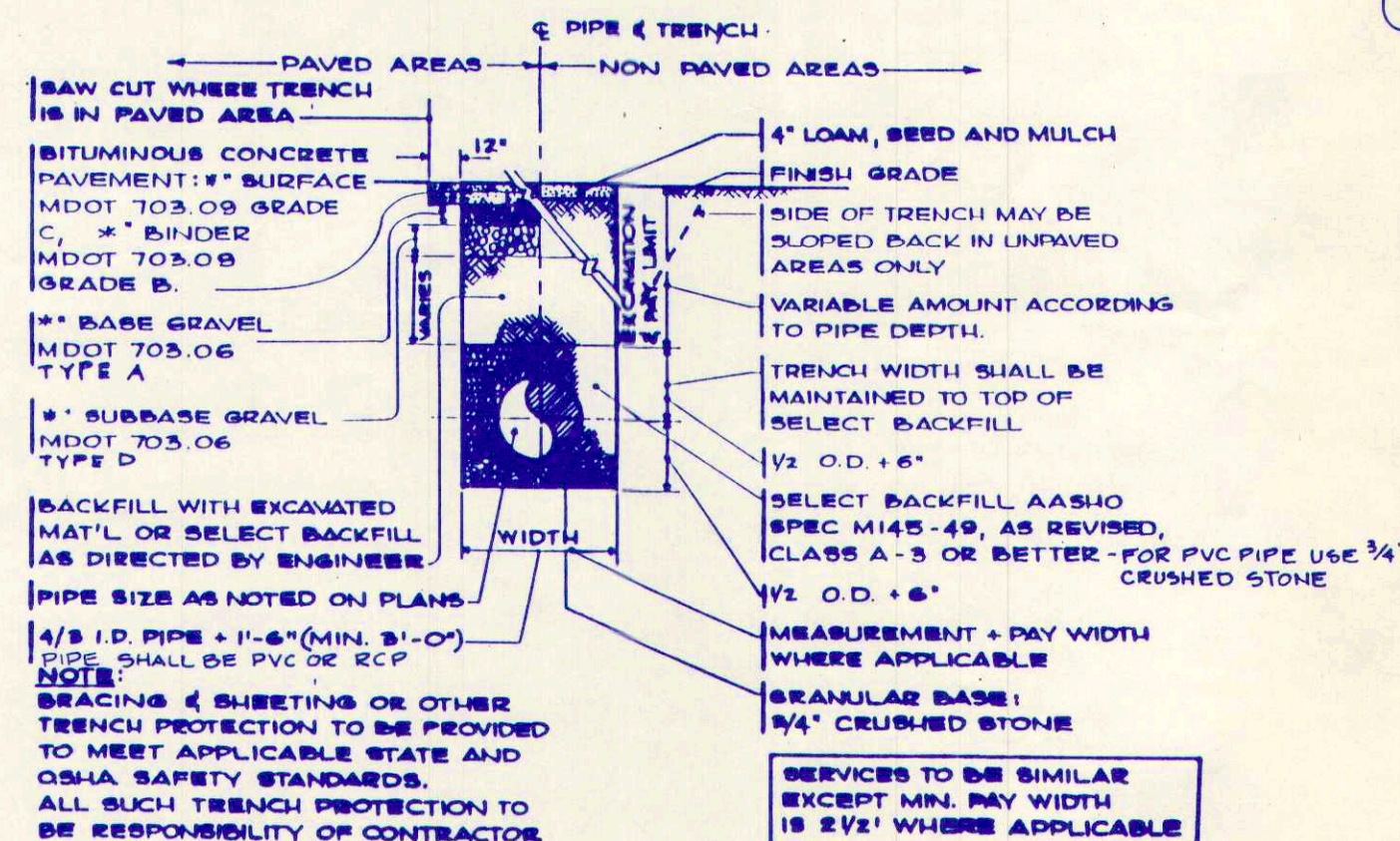
- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4\"
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKED OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW OR HAY BALE BARRIER

N.T.S.



EROSION CONTROL MESH
N.T.S.



TYPICAL TRENCH SECTION

N.T.S.

SITE PLAN APPLICATION

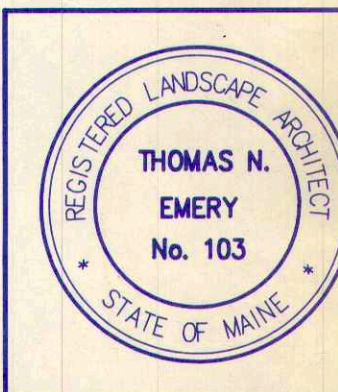
SITE DETAILS

DeLuca-Hoffman Associates, Inc.
Consulting Engineers
778 Main Street
South Portland, Maine 04106
207-775-1121



GREELY H.S. & J.H.S. CIRCULATION IMPROVEMENTS

M.S.A.D. 51 - Master Development Plan PHASE 1 DEVELOPMENT Cumberland Center, Maine



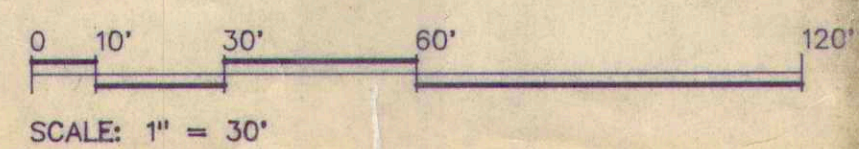
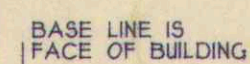
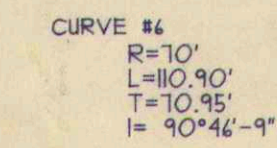
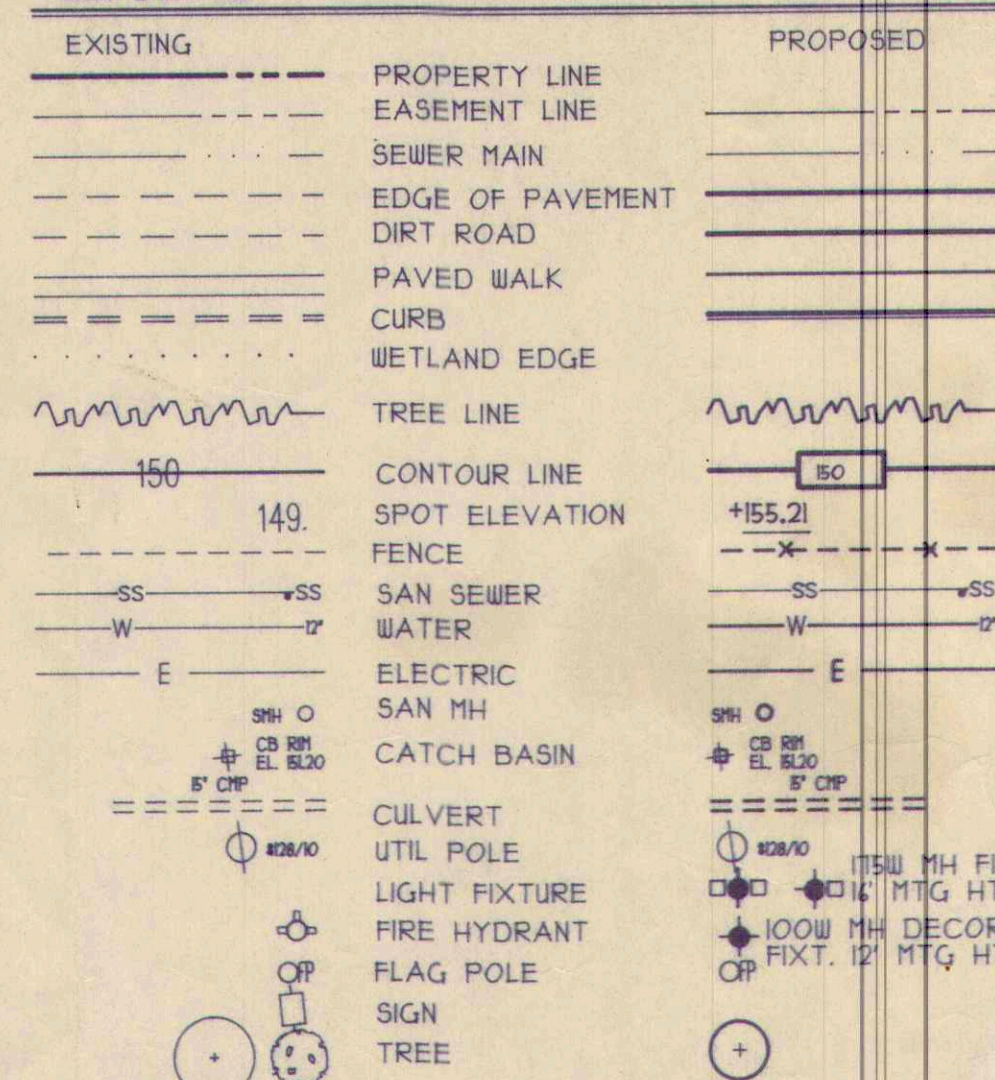
DATE: 14 DEC 1992
REVISIONS:
SITE PLAN 4 JAN 93
SITE PLAN 1 MARCH 93
REV LIGHT 16 MAR 93
SITE PLAN 26 MARCH 93

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DRAWING NO.

L5.6

I. BASE INFORMATION DERIVED FROM THE FOLLOWING SOURCES:



104ST02 (MSAD#51 DEV PLAN)

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**M.S.A.D. #51 - Master Development Plan
PHASE 1 & 2 DEVELOPMENT
Cumberland Center, Maine**

A circular professional seal for Thomas N. Emery. The outer ring contains the text "REGISTERED LANDSCAPE ARCHITECT" at the top and "STATE OF MAINE" at the bottom, separated by two small stars. The center of the seal contains the name "THOMAS N. EMERY" and the number "No. 103".

DATE: 31 JULY 1993
 REVISIONS:
 15 JUNE 1992
 PLANG. BD. INFO MTG
 15 JULY 1992
 P.B. 2ND INF MTG
 24 SEPTEMBER 1992
 SCHOOL BOARD
 1 MARCH 1993
 SITE PLAN 26 MAR 93
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DRAWING NO.

L5.1

DeLuca Hoffman Assocs.Inc.
778 Main St. Suite 8
South Portland, ME 04106
207 775-1121

Terrien Architects, Inc.
4 Milk Street
Portland, Maine 04101
207 774-6016 Fax: 774-9128

1. BASE INFORMATION DERIVED FROM THE FOLLOWING SOURCES:

11. COORDINATE ALL UTILITY WORK W/ THE RESPECTIVE UTILITY COMPANIES.
12. EXISTG PAVEMENT TO BE REMOVED SHALL BE RECYCLED

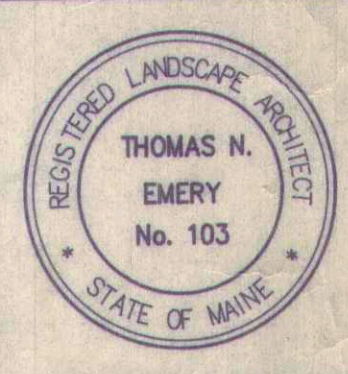
[illegible]

TERRIEN

Terrien Architects, Inc.
4 Milk Street
Portland, Maine 04101
207 774-6016 Fax: 774-91

GREELY H.S. & J.H.S. CIRCULATION IMPROVEMENTS

**M.S.A.D. #51 - Master Development Plan
PHASE 1 & 2 DEVELOPMENT
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DATE: 31 JULY 1993 CDS
REVISIONS:
15 JUNE 1992
PLANG. BD. INFO MTG.
15 JULY 1992
P.B. 2ND INF MTG
24 SEPTEMBER 1992
SCHOOL BOARD
1 MARCH 1993
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LO.1

DEMOLITION SITE PLAN

104ST01 (MSAD#51 DEV. PLAN)

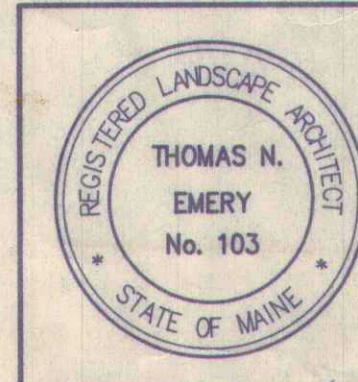
7

DeLuca Hoffman Assoc. Inc.
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GREELY H.S. & J.H.S. CIRCULATION IMPROVEMENTS

**M.S.A.D. #51 - Master Development Plan
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Cumberland Center, Maine**



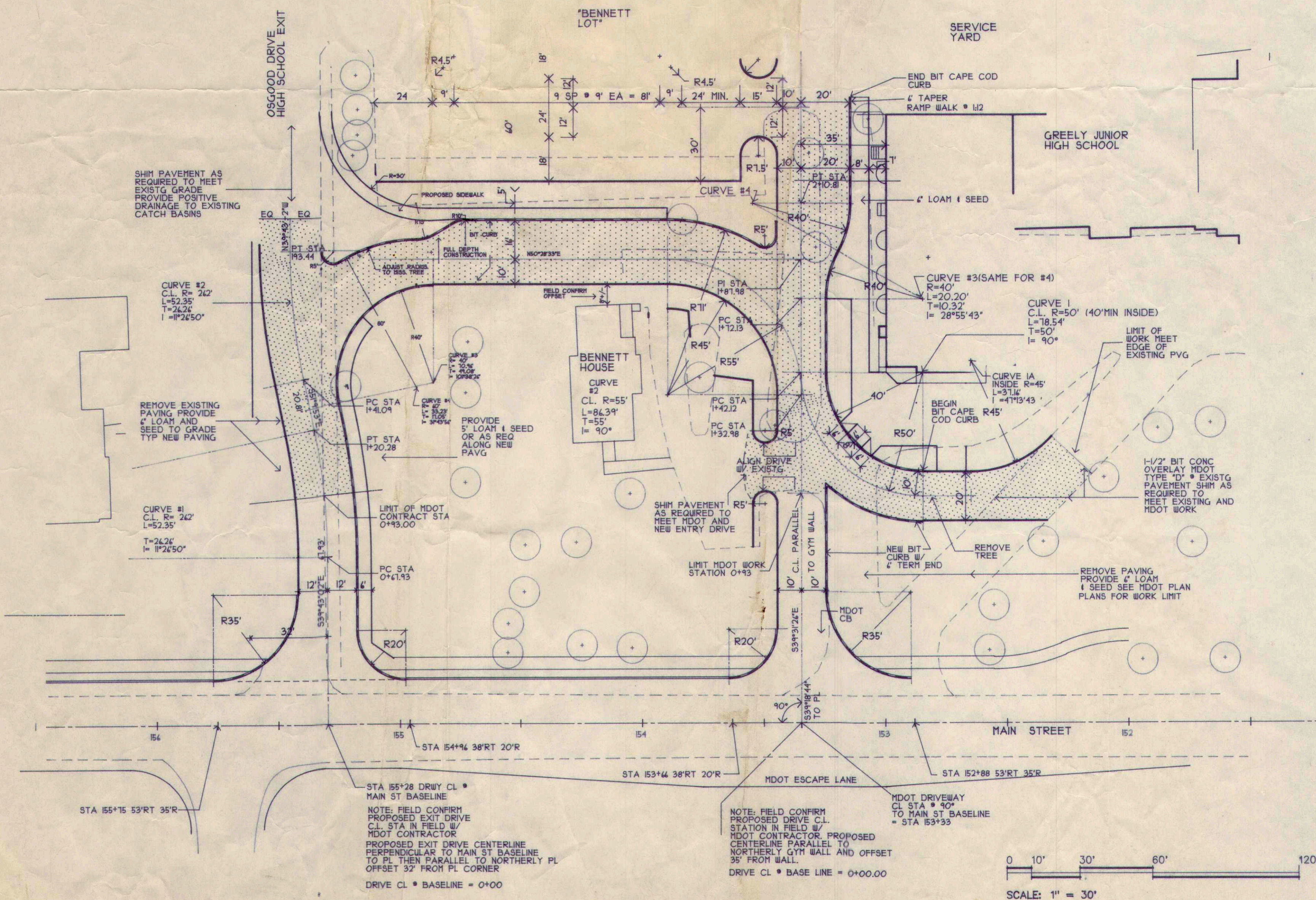
DATE: 31 JULY 1993
REVISIONS:
3 AUG 1993
15 JULY 1992
P.B. 2ND INF MTG
24 SEPTEMBER 1992
SCHOOL BOARD
1 MARCH 1993
SITE PLAN 20 MAR 93
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L5.1A

REV LAYOUT PLAN

TOASTAP (ALT L5.1)



GENERAL NOTES

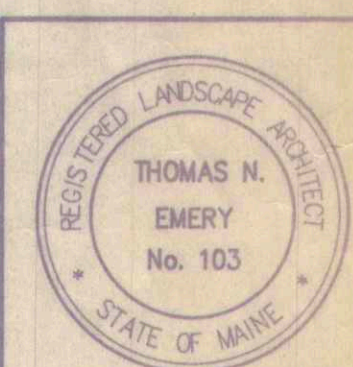
1. BASE INFORMATION DERIVED FROM THE FOLLOWING SOURCES:
 - A. SURVEY TITLED "STANDARD BOUNDARY SURVEY AND TOPOGRAPHIC PLAN PREPARED BY OWEN HASKELL INC. FOR SAD #51, DATED 4 JAN 1993
 - B. SURVEY TITLED "ADDENDUM TOPOGRAPHIC PLAN OF GREELY HIGH SCHOOL, CUMBERLAND, MAINE BY OWEN HASKELL INC. DATED JUNE 8, 1990, SCALE 1"=30'
 - C. MAINE DEPARTMENT OF TRANSPORTATION CONSTRUCTION PLANS FOR MAIN STREET-CUMBERLAND/NORTH YARMOUTH-DATED NOVEMBER 1, 1992, SCALE 1"=25'
2. PROPOSED DRIVEWAY OPENINGS AND WORK LIMITS WITHIN MDOT LIMIT OF WORK BY OTHERS. HSAD#51 CONTRACT SHALL MEET MDOT PROJECT WORK LIMITS.
3. MAIN STREET BASELINE SHOWN ON THIS PLAN SCALED FROM MDOT CONSTRUCTION PLANS REFERENCED ABOVE. CONVEY LOCATION AND BEARINGS FOR NEW WORK IN FIELD USING MDOT BASE LINE.
4. NEW DRAINAGE STRUCTURES WITHIN MDOT WORK LIMITS TAKEN FROM MDOT CONSTRUCTION PLANS.
5. LOAN AND SEED ALL DISTURBED AREAS NOT OTHERWISE PAVED OR DEVELOPED 1/2" MIN 2" LOAN AND PARK SEED MIX. PROVIDE MIN 5' BEYOND PAYMENT EDGE.
6. SEE DRAWING L5.5 FOR TYP PAVT DTL'S
7. SEE DRAWING L5.2 FOR GRADING AND L5.3 FOR SIGNAGE
8. ALL WORK SHALL BE COORDINATED W/ MDOT FIELD ENGINEER AND PLANS
9. ALL PLANTING SHALL MEET OR EXCEED A.N.A. STANDARDS
10. PROVIDE PRICE FOR TRANSPLANTING LINDEN
11. GRADING IS SCHEMATIC. VERIFY W/ ACTUAL FIELD CONDITIONS

LEGEND

EXISTING	PROPOSED
	PROPERTY LINE
	EASEMENT LINE
	SEWER MAIN
	EDGE OF PAVEMENT
	DIRT ROAD
	PAVED WALK
	CURB
	WETLAND EDGE
	TREE LINE
	CONTOUR LINE
	SPOT ELEVATION
	FENCE
	SAN SEWER
	WATER
	ELECTRIC
	SAN HH
	CULVERT
	CATCH BASIN
	UTIL. POLE
	LIGHT FIXTURE
	FIRE HYDRANT
	FLAG POLE
	SIGN
	TREE

Deluca Hoffman Assoc., Inc.
778 Main St. Suite 8
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M.S.A.D. #51 - Master Development Plan PHASE 1 & 2 DEVELOPMENT Cumberland Center, Maine



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DRAWING NO.

L5.2

GRADING PLAN

0 10' 30' 60' 120'
SCALE: 1" = 30'

