GRAPHIC SCALE

100' 50' 0 100' 200' 300'

REV	DATE	DESCRIPTION	C/O	DR	CK
F	7-31-03	REDUCE OFFICE SF	PC	JKE	GJG
E	7-2-03	MINOR	CT	GG	JKE
D	6-12-03	PER APB MEETING 6-4-03	APB	GG	JKE
C	5-27-03	PER APB MEETING 5-14-03	APB	GG	JKE

LAST REVISED: JULY 31, 2003

ABUTTERS:

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MOHR EXCHANGE COMPANY, LLC
200 MIDDLESEX TURNPIKE
BURLINGTON, MA 01803-3315
VOL.6992 PG.2480 7/15/03

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63 ROUTE 101A
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BOONSONG AND CHUENCHAI
DANAISAWASDI
63 ROUTE 101A
AMHERST, NH 03031
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ROBERT AND PAUL ROBICHAUD
P. O. BOX 45173
SOMERVILLE, MA 02145-0022
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MANCHESTER, NH 03104
VOL.6184 PG.678 11/11/99

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ROBERT MOSES TRUSTEE
ROBERT J. MOSES
REVOCABLE TRUST
P. O. BOX 9
AMHERST, NH 03031-0009
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2-77-1
WINDMERE PLACE
C/O ROBERT S. PORTER TRUSTEE
1057 BEACON STREET TRUST
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NEVER NEVER LAND
REAL ESTATE LLC
7 NORTHERN BOULEVARD
AMHERST NH 03031
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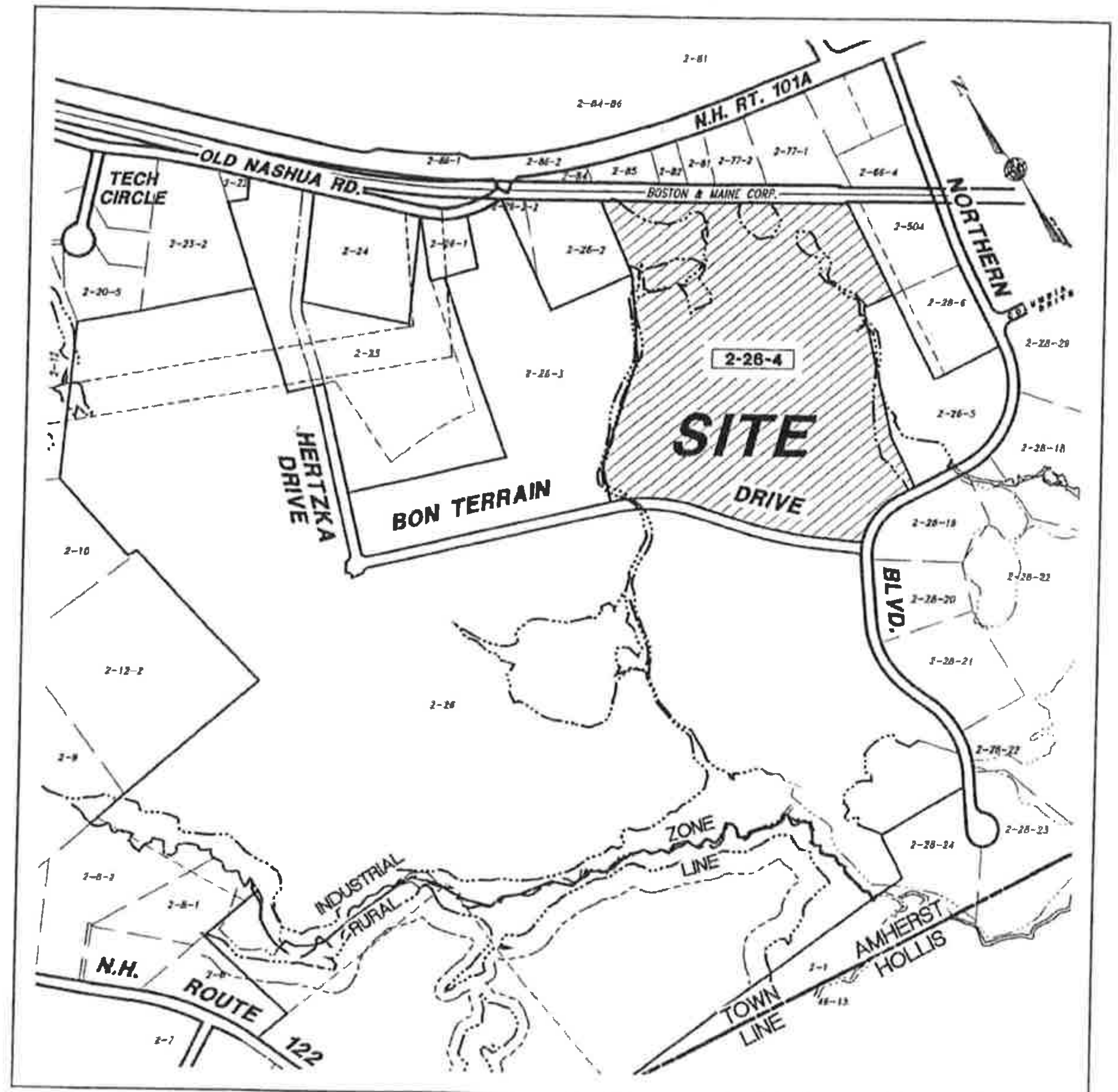
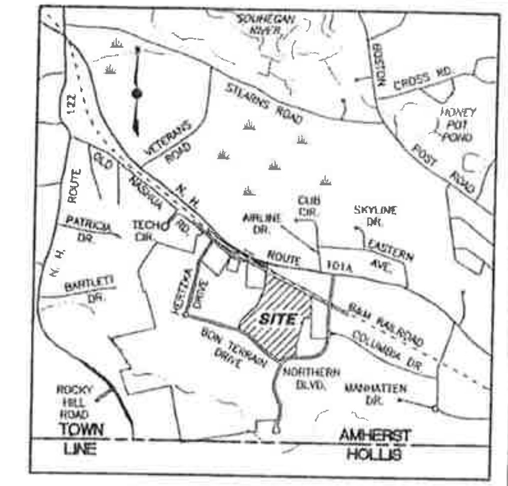
BOSTON AND MAINE RAILROAD
GUILFORD TRANSPORTATION, INC.
HIGH STREET
IRON HORSE PARK
N. BILLERICA, MA 01862-1689



LOCUS
SCALE 1"=400'



LOCUS
1"=2000'

SHEET INDEX:

APPROVED BY AMHERST PLANNING BOARD

ON: ______ CERTIFIED BY
CHAIRMAN: ______ AND
SECRETARY: ______

RECEIVED
AUG 4 2003

REQUIRED APPROVALS:

NHDES - SITE SPECIFIC - #WPS - 6473, DATED MAY 14, 2003
NHDES - SEPTIC APPROVAL SYSTEM A #CA2003052740, JUNE 2, 2003
NHDES - SEPTIC APPROVAL SYSTEM B #CA2003052741, JUNE 2, 2003

GENERAL CONSTRUCTION NOTES:

1. THE LOCATION OF THE UTILITIES SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PRESERVE ALL UTILITY SERVICES.
2. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL UTILITY COMPANIES AND JURISDICTIONAL AGENCIES PRIOR TO AND DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND PROPOSED WORK PRIOR TO CONSTRUCTION.

DIG SAFE
1-888-344-7233

CERTIFICATION:

"I HEREBY CERTIFY THAT THE STREET LINES, TOPOGRAPHY AND PHYSICAL FEATURES SHOWN ARE ACCURATE AND TRUE".

DATE: 8-4-03
NAME: Randolph A. Haight L.L.S.

STATE OF NEW HAMPSHIRE
RANDOLPH A. HAIGHT
No. 670
LICENSED LAND SURVEYOR

SITE PLAN
TAX MAP 2 LOT 26-4
PREPARED FOR

F.W. WEBB COMPANY

AMHERST, NEW HAMPSHIRE

SCALE: 1" = 400' MARCH 3, 2003

MERIDIAN
Land Services, Inc.
OFFICE: 31 OLD NASHUA ROAD, AMHERST, NEW HAMPSHIRE 03031
MAILING ADDRESS: PO BOX 118, MILFORD, NEW HAMPSHIRE 03055-0118
TEL 603-673-1441 FAX 603-673-1584 MERIDIAN@MERIDIANLANDSERVICES.COM
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

FILE: 4760K00H.dwg	PROJECT NO. 4760.02	SHEET NO. 1 OF 17

REFERENCE PLAN:

1. "LOT LINE ADJUSTMENT PLAN AND SUBDIVISION PLAN OF LAND TAX MAP LOTS 2-23 & 2-28 PREPARED FOR PUBLIC SERVICE COMPANY OF N.H. AND TANA PROPERTIES LIMITED PARTNERSHIP - AMHERST, NEW HAMPSHIRE", SCALE 1"=100', DATED NOVEMBER 4, 2002 AND LAST REVISED 6/17/03, BY MERIDIAN LAND SERVICES, INC., AND RECORDED IN THE HCRD AS PLAN #32553, 7/3/03.

NOTES:

1. THE OWNER OF RECORD OF MAP 2 LOT 26-4 IS MOHR EXCHANGE COMPANY, LLC. 200 MIDDLESEX TURNPIKE, BURLINGTON, MA 01803-3315, DEED REFERENCE TO PARCEL, MAP 2, LOT 26-4 IS VOL. 6992, PAGE 2480, DATED JULY 15, 2003.
2. DEVELOPER IS: F.W. WEBB COMPANY, MERRIMACK, NH.
3. 2-26-4 DENOTES TAX MAP PAGE AND PARCEL NUMBER. STREET ADDRESS IS NORTHERN BOULEVARD, AMHERST, NH 03031.
4. THE AREA OF THE PARCEL IS 40.234 ACRES (35.74 AC. DRY).
5. BOUNDARY & TOPOGRAPHIC INFORMATION SHOWN WERE DEVELOPED FROM THE REFERENCE PLANS AND AN ON-SITE SURVEY MADE ON JANUARY 04, 2002. UTILITY LOCATIONS ARE APPROXIMATE.
6. THIS VERTICAL DATUM IS ON N.G.V.D. 1929 AND THE REFERENCE BENCHMARK IS NGS DISK F-26 IN A CONCRETE BOUND FOUND AT THE INTERSECTION OF NH ROUTE 101 AND OLD NASHUA ROAD.
7. SOILS INFORMATION SHOWN ON SHEETS 3 WAS DEVELOPED FROM "SOIL SURVEY OF HILLSBOROUGH COUNTY NEW HAMPSHIRE - EASTERN PART", SHEET 22 BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1981. SOIL TYPES WERE VIEWED BY TIMOTHY J. FERWERDA, C.S.S., AND WERE FOUND TO BE SUITABLE FOR DEVELOPMENT AND INSTALLATION OF SEPTIC SYSTEMS.
8. SOIL TYPES FOR THE ENTIRE SITE IS WdA-WINDSOR LOAMY SAND, 0-3% SLOPE, WdB-WINDSOR LOAMY SAND, 3-8% SLOPE, WdC-WINDSOR LOAMY SAND, 8-15% SLOPE HsB-HINKLEY LOAMY SAND, 3-8% SLOPE, Cu-CHOCORUA MUCKY PEAT, GRAVEL PIT. FROM REFERENCED PLAN.
9. WETLANDS WERE DELINEATED IN ACCORDANCE WITH "CORP. OF ENGINEERS WETLANDS DELINEATION MANUAL", TECHNICAL REPORT Y-87-1, JANUARY 1987, BY TIMOTHY J. FERWERDA, C.S.S., OF THIS OFFICE, ON SEPTEMBER 2, 2002.
10. NO PORTION OF LOT 2-26-4 LIES WITHIN THE BOUNDARY OF THE 100 YEAR FLOOD HAZARD AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR AMHERST, NH - COMMUNITY PANEL NUMBER 330081 0012 B, JULY 2, 1979.
11. THE SITE IS LOCATED PARTIALLY WITHIN THE AQUIFER CONSERVATION DISTRICT. THIS DISTRICT PROHIBITS THE USE OF SALT, STORAGE OF HAZARDOUS MATERIAL AND REQUIRES SUBSURFACE SANITARY SYSTEMS TO BE CONSTRUCTED PER THE TOWN OF AMHERST "WATER POLLUTION CONTROL REGULATION". ALL USES ON THE SITE SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE DISTRICT.
12. WETLANDS IN THIS PARCEL ARE "PUBLIC WATER PROTECTION WETLANDS". THEY FALL WITHIN THE "PENNICHUCK BROOK WATERSHED" AND ARE SUBJECT TO A 100' NON-DISTURBANCE BUFFER. THE 100' SETBACK ADJACENT TO THE EXISTING WETLANDS IS PROPOSED TO BE UNDISTURBED.
13. PORTIONS OF THIS SITE ARE LOCATED WITHIN THE WETLANDS CONSERVATION DISTRICT. THOSE PORTIONS OF THIS DISTRICT ARE NOT USED IN LOT LOADING OR DENSITY CALCULATIONS.
14. THE CONSTRUCTION OF THE PROPOSED SITE SHALL REQUIRE THE FOLLOWING PERMITS:
    A. N.H.D.E.S. SITE SPECIFIC (R.S.A. 485-A:17) - APPROVAL NO. IS WPS 6473, MAY 14, 2003.
    B. STATE OF NEW HAMPSHIRE, DEPT. OF ENVIRONMENTAL SERVICES, SUBSURFACE SYSTEMS BUREAU, CONSTRUCTION APPROVAL NO. IS PENDING.
15. ZONING FOR THE SITE IS INDUSTRIAL. BUILDING SETBACKS ARE 100' FROM NORTHERN BOULEVARD IN FRONT, 50' SIDE AND REAR, 50' FROM WETLANDS. THIS SITE FALLS WITHIN PENNICHUCK WATERSHED PROTECTION ZONE.

CERTIFICATION:

"I HEREBY CERTIFY THAT THE SOIL TEST DATA SHOWN IS THE RESULT OF AN ON-SITE FIELD INVESTIGATION AND THAT THE SOILS TESTS MEET THE CRITERIA ESTABLISHED BY STATE AND LOCAL AUTHORITIES FOR THE DESIGN OF SEPTIC SYSTEMS AND IS SUITABLE FOR LAND DEVELOPMENT." "I FURTHER CERTIFY THAT THE SOILS FOR THIS ENTIRE SITE ARE AS STATED IN NOTE 8"

CERTIFICATION:

"I CERTIFY THAT THE EXTERIOR BOUNDARY SHOWN ON THIS PLAN WAS DEVELOPED ENTIRELY FROM REFERENCED PLAN 1 AND IS "MATHMATICALLY CORRECT".

GENERAL CONSTRUCTION NOTES:

1. THE LOCATION OF THE UTILITIES SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PRESERVE ALL ALL UTILITY SERVICES.
2. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL UTILITY COMPANIES AND JURISDICTIONAL AGENCIES PRIOR TO AND DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND PROPOSED WORK PRIOR TO CONSTRUCTION.

DIG SAFE 1-888-344-7233

REV.	DATE	DESCRIPTION	C/D	DR	CK
H	7-31-03	REDUCE OFFICE SPACE	PC	JKE	JKE
E	7-2-03	MINOR	CT	GG	JKE
D	06/12/03	PER APB MEETING 6-4-03	APB	GG	JKE
C	05/27/03	PER APB MEETING 5-14-03	APB	GG	JKE

16. THE PROPOSED USE IS FOR A 330,840 SQUARE FOOT BUILDING WITH STORAGE MEZZANINE. BUILDING HEIGHT 32 FT. HEIGHT.
17. THE SANITARY SITE LOADING IS BASED ON GROUP 1 SOILS AND THE TOWN OF AMHERST ZONING REGULATIONS SECTION G, SECTION 12(L) WHICH ALLOWS A MAXIMUM OF 1,000 GALLONS PER ACRE PER DAY. SITE LOADING IS BASED ON 35.74 ACRES OF NON WETLAND SOILS. SITE LOADING POSSIBLE IS 35.74 AC. X 1000 GPD/AC = 35,740 GALS. PROPOSED LOADING IS 3,200 GALLONS.
18. THE PROPOSED SITE IS TO BE SERVICED BY A MUNICIPAL WATER SUPPLY AND ON SITE SUBSURFACE DISPOSAL SYSTEMS.
19. FLOOR AREA RATIO: 330,840 SQ.FT. (FLOOR AREA)/1,752,585 SQ.FT. (LOT AREA) = 0.19. ZONING REQUIREMENT IS 0.30 MAXIMUM.
20. LANDSCAPE OPEN SPACE REQUIREMENT: 1,174,018.6 SQ. FT. (OPEN SPACE)/1,752,585.0 SQ.FT. (LOT AREA) = 0.67. ZONING REQUIREMENT IS 0.30 MINIMUM.
21. LANDSCAPE OPEN SPACE PARKING REQUIREMENT: 77,852 SQ. FT. (OPEN SPACE)/204,006 SQ.FT. (PARKING AREA) = 0.38. INTERNAL GREEN SPACE IS 6.5% (5% MIN. REQUIRED).
22. THE PROPOSED SIGN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF AMHERST SIGN ORDINANCE AND WILL BE ILLUMINATED BY TWO SPOT LIGHTS.
23. UTILITIES WILL BE EXTENDED TO BUILDING FROM EXISTING POLES. UTILITY CONNECTIONS SHALL BE SEPARATE. ELECTRIC SERVICE CONNECTION TO TRANSFORMER SHALL BE UNDERGROUND AND TELEPHONE, CABLE SERVICE CONNECTIONS SHALL BE UNDERGROUND FROM NEW POLES.
24. PROPOSED SITE WILL INCLUDE DIESEL FUELING/STORAGE STATION, STORAGE OF PACKAGED CLEANING MATERIALS IN THE NORTHWEST CORNER OF THE BUILDING WITHIN A CONTAINMENT AREA, THERE WILL BE NO OTHER STORAGE OR DISCHARGE OF HAZARDOUS OR TOXIC WASTE ON SITE, NO SALT WILL BE USED ON SITE.
25. THERE ARE NO EXISTING DRIVEWAYS OR BUILDINGS ON SITE. SEE EXISTING CONDITIONS PLAN SHEET 3. THERE ARE NO EXISTING COVENANTS OR DEED RESTRICTIONS.
26. A DEBRIS CONTAINER SHALL BE MAINTAINED ON SITE DURING THE CONSTRUCTION PHASE. THERE SHALL BE NO LOOSE DEBRIS ALLOWED ON THE SITE.
27. INSTALLED LANDSCAPING PLANTINGS SHALL BE KEPT IN GOOD CONDITION AND ANY DEAD SHRUBS, TREES OR SIMILAR ITEMS SHALL BE REPLACED.
28. ORANGE BARRIER FENCE SHALL BE PLACED ALONG THE 100 FOOT NON DISTURBANCE BUFFER IN THOSE AREAS OF CLOSE PROXIMITY TO ANY CONSTRUCTION OR CLEARING.
29. THE SITE-RELATED VEHICULAR TRAFFIC (TOTAL TRIPS IN AND OUT FOR BOTH CARS AND TRUCKS) SHALL BE LIMITED TO 49 VEHICLES PER HOUR DURING THE WEEKDAY MORNING (7:30 AM - 8:30 AM) AND EVENING (5:00 PM - 6:00 PM) PEAK PERIODS FOR NH ROUTE 101-A. THE OWNER SHALL PROVIDE THE FOLLOWING TRAFFIC AND PARKING DATA FOR THIS SITE TO THE ZONING ADMINISTRATOR FOR ONE CONTINUOUS TWO-WEEK PERIOD DURING SEPTEMBER OR OCTOBER FOR EACH OF THE FIRST TWO YEARS AFTER THE CERTIFICATE OF OCCUPANCY HAS BEEN ISSUED: AVERAGE WEEKDAY AM AND PM PEAK HOUR TRIPS FOR ALL TRUCK AND AUTOMOBILE TRIPS FOR THE 2-WEEK PERIOD; TOTAL PARKED CARS AND TRUCKS ON-SITE EACH DAY DURING THE STUDY PERIOD; AND TOTAL NUMBER OF EMPLOYEES ASSIGNED TO THE SITE FOR EACH DAY DURING THE STUDY PERIOD (EMPLOYEE HEAD COUNT). THIS TRAFFIC DATA CAN BE SUPPLIED ONCE PER YEAR FOLLOWING THE SECOND YEAR OF BUSINESS, BUT ONLY AT THE WRITTEN REQUEST OF THE PLANNING BOARD.
30. THE PROPOSED STORM WATER DRAINAGE SYSTEM WILL INCORPORATE THE USE OF TREATMENT SWALES, LEVEL SPREADERS AND A VEGETATED FILTER STRIPS. THESE BEST MANAGEMENT PRACTICES PROVIDE PERMANENT STORMWATER TREATMENT.
31. PARKING CALCULATIONS: ONE SPACE PER 250 SF OF OFFICE IS 14,200/250=57 SPACES REQUIRED. PROPOSED ARE 218 SPACES TOTAL WITH 82 DESIGNATED AS FUTURE SPACES IF NEEDED, INCLUDED, ARE 8 HANDICAPPED SPACES.
32. THERE ARE PROPOSED DRAINAGE EASEMENTS PER REFERENCE PLAN #1, AND THERE ARE EXISTING UTILITY EASEMENTS.
33. ALL THE PROPOSED CATCH BASINS SHALL BE FITTED WITH A CATCH BASIN SEDIMENT FILTER AS SHOWN IN DETAIL 5 ON SHEET D-04. THE APPLICANT AGREES TO IMPLEMENT THE TESTING/SAMPLING OF STORM WATER WITHIN THE CATCH BASINS DURING A STORM PERIOD OF NOT LESS THAN 0.5 INCHES IN THE MONTHS OF AUGUST/SEPTEMBER. MONITORING WELL TESTS SHALL BE CONDUCTED TWICE A YEAR FOR TWO YEARS THEN ONCE A YEAR THERE AFTER. SEE AMHERST SITE PLAN REGULATIONS, SECTION C, SUBMISSION ITEM 7, PAGE 163. NOTE ADDITIONAL MONITORING WELL TO BE ADDED, SHEET 3 OF 17. IN ADDITION THE OWNER AGREES TO IMPLEMENT TESTING/SAMPLING OF STORM WATER FROM CATCH BASINS #1 AND #7 ONE (1) TIME PER YEAR. THE SAMPLE SHALL BE TAKEN WITHIN TWELVE (12) HOURS AFTER A STORM EVENT OF A LEAST 0.5 INCHES (OF RAIN), WHERE SUCH STORM EVENTS OCCURS APPROXIMATELY (30) DAYS AFTER THE APPLICATION OF LAWN CHEMICALS PER THE IPM. THIS TESTING SHALL BE FOR PESTICIDES AND HERBICIDES USE PER THE IPM.
34. AN IMPERMEABLE TEXTILE (20 MIL PVC) MEMBRANE SHALL BE INSTALLED BENEATH THE SLAB FLOORS TO PREVENT INFILTRATION OF ANY SPILLED LIQUIDS WITHIN THE BUILDING FROM PERCOLATING INTO THE GROUND. ALL PIPING THROUGH SHALL BE SEALED, THERE WILL BE NO FLOOR DRAINS.
35. PRIOR TO OCCUPANCY THIS SITE IS SUBJECT TO APPROVAL BY THE AMHERST PLANNING BOARD TO HOLD A HEARING TO DETERMINE COMPLIANCE WITH APPROVED SITE PLAN.
36. THE FUTURE PARKING WILL BE CONSTRUCTED ONLY IF NEEDED. THIS FUTURE PARKING WILL NOT BE CONSTRUCTED UNLESS BON TERRAIN DRIVE IS COMPLETED.
37. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL 900' OF BON TERRAIN DRIVE WESTERLY FROM FROM NORTHERN BOULEVARD IS COMPLETED WITH BONDING OPTION #2 AS NOTED IN THE AMHERST SUBDIVISION REGULATIONS SECTION 4-7.
38. THERE SHALL BE NO OUTSIDE STORAGE OF PALLETS OR ANY OTHER MATERIALS ON THE SITE.
39. SIGNS WILL BE POSTED BY EACH SINK, INSTRUCTING PERSONNEL NOT TO DISPOSE OF HAZARDOUS MATERIAL IN THE SYSTEM. ALL SUCH MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. THE BUSINESS OPERATION PLAN SHALL INCLUDE THIS NOTATION. ANY CHANGE IN OPERATIONS IN THE FUTURE THAT INCREASES THE DEGREE OF THREAT TO GROUNDWATER SHOULD BE REPORTED TO PENNICHUCK WATER WORKS AND THE TOWN OF AMHERST.
40. LANDSCAPE MAINTENANCE AND FERTILIZER APPLICATION SHALL BE ON AS NEEDED BASIS APPLIED BY ONLY TRAINED PERSONAL LICENSED BY THE STATE OF NEW HAMPSHIRE. SOIL SHOULD BE TESTED PRIOR TO ANY PROPOSED FERTILIZER APPLICATION. THE USE OF PESTICIDES USED ON THIS SITE SHALL BE ON AS NEEDED BASIS. THE IPM PLAN PROPOSED BY THOMAS J. MORIN, MORIN'S LANDSCAPING, DATED: JUNE 4, 2003, SHALL BE THE IMPLEMENTED AS THE MODEL FOR THIS SITE.
41. THE PARKING OF ANY FLEET VEHICLES OTHER THAN SHORT DURATION'S MUST OCCUR UNDER THE CANOPY STRUCTURE PROVIDED. ALL VEHICLE MAINTENANCE WILL BE OFF SITE.
42. THE PURPOSE OF THIS PLAN REVISION IS TO REDUCE THE TOTAL OFFICE SPACE FROM 20,699 SF TO 14,200 SF. ALL PREVIOUSLY APPROVED CONDITIONS AND RESTRICTIONS, SHALL REMAIN IN FORCE AND ARE A PART OF THIS PLAN.

LEGEND:

EXISTING FEATURES

- 138 2 FT. CONTOUR
- 140 10 FT. CONTOUR
- EDGE OF PAVEMENT
- EDGE OF WETLAND SOILS
- MAPPED WETLAND SOIL FLAG
- EDGE OF WATER
- EDGE OF FOLIAGE
- 2-26-4 TAX MAP LOT NUMBER
- GATE VALVE
- W WELL
- BUILDING
- W WATER LINE
- D STORM WATER DRAINAGE
- G UNDERGROUND GAS LINE
- O/H OVERHEAD UTILITIES
- UGE UNDERGROUND UTILITIES
- R.O.W. SIDELINE
- PROPERTY LINE
- EDGE OF EASEMENT
- ABUTTER LINE
- SETBACK LINE
- EDGE PAVEMENT
- EDGE OF GRAVEL
- CURB LINE (ANY TYPE)
- EDGE WETLAND SETBACK
- SCS SOILS LINE
- WOODS ROAD OR TRAIL
- BUILDING SETBACK LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE

- F.S.B. FND. FIELD STONE BOUND FOUND
- I.PIPE FND. IRON PIPE FOUND
- I.PIN FND. IRON PIN FOUND
- D.H. FND. DRILL HOLE FOUND
- D.H. SET DRILL HOLE SET
- PILE OF STONES FOUND
- IRON PIN TO BE SET OR DRILL HOLE TO BE SET
- POLE LIGHT
- UTILITY POLE AND GUY WIRE
- TEST PIT
- MONITORING WELL
- 20 BENCH MARK

PROPOSED FEATURES

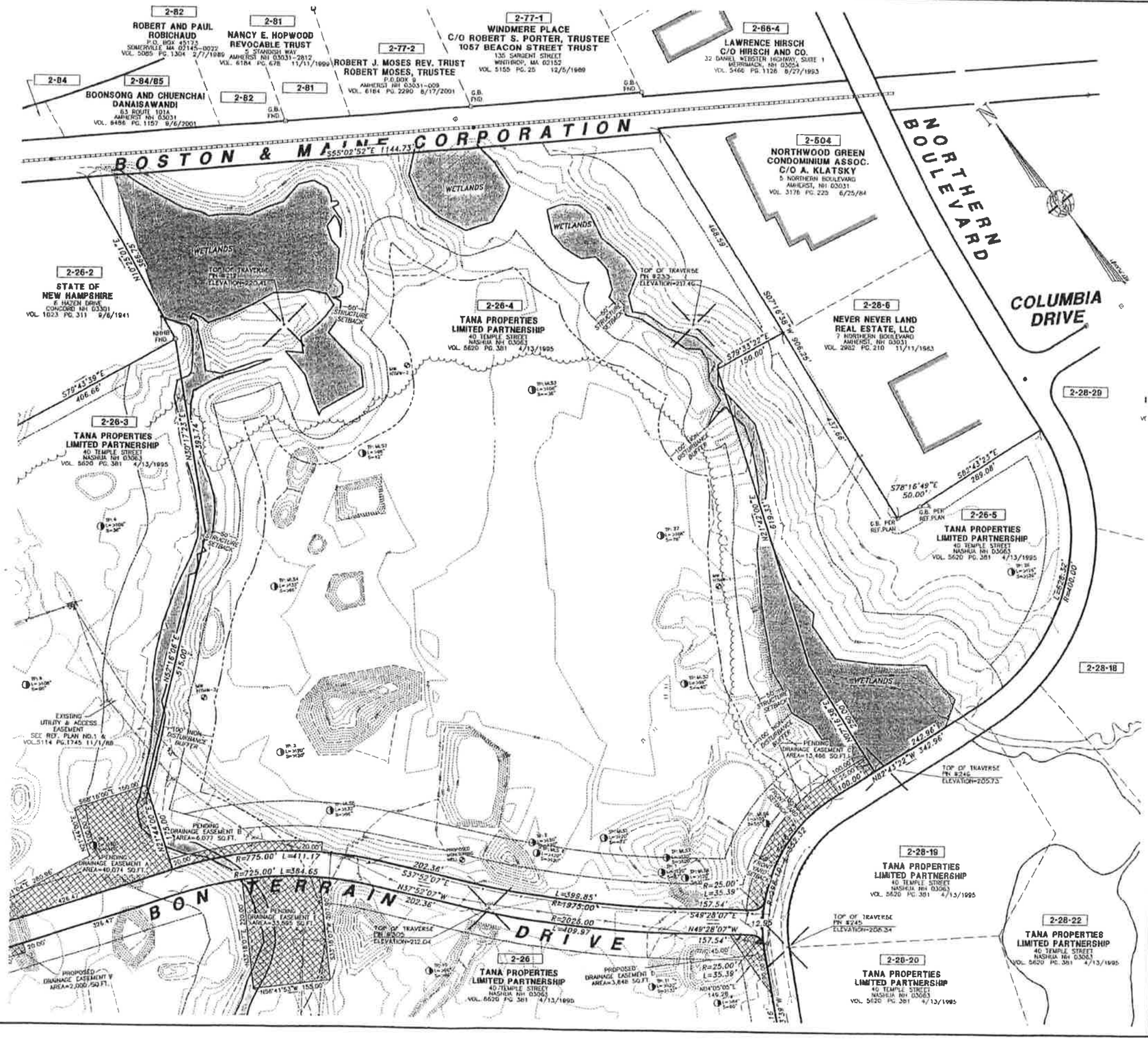
- 2 FT. CONTOUR
- 10 FT. CONTOUR
- 320.0 SPOT ELEVATION
- EDGE OF PAVEMENT
- BITUMINOUS CURB
- VERTICAL GRANITE CURB
- SEPTIC AREA - 4000 SQ.FT.
- STORM WATER FLOW
- PAINTED TRAFFIC ARROW
- HANDICAP PARKING DESIGNATION
- CBS STORM WATER CATCH BASIN
- DMH DRAIN MANHOLE
- STORM WATER DRAINAGE
- POLE LIGHT (DOWN CAST)
- PAVEMENT
- BUILDING

F.W. WEBB COMPANY
AMHERST, NEW HAMPSHIRE

SCALE: NONE

MARCH 3, 2003

MERIDIAN
Land Services, Inc.
OFFICE: 31 OLD NASHUA ROAD, AMHERST, NEW HAMPSHIRE 03031
MAILING ADDRESS: PO BOX 118, MILFORD, NEW HAMPSHIRE 03055-0118
TEL 603-673-1441 FAX 603-673-1584 MERIDIAN@MERIDIANLANDSERVICES.COM
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

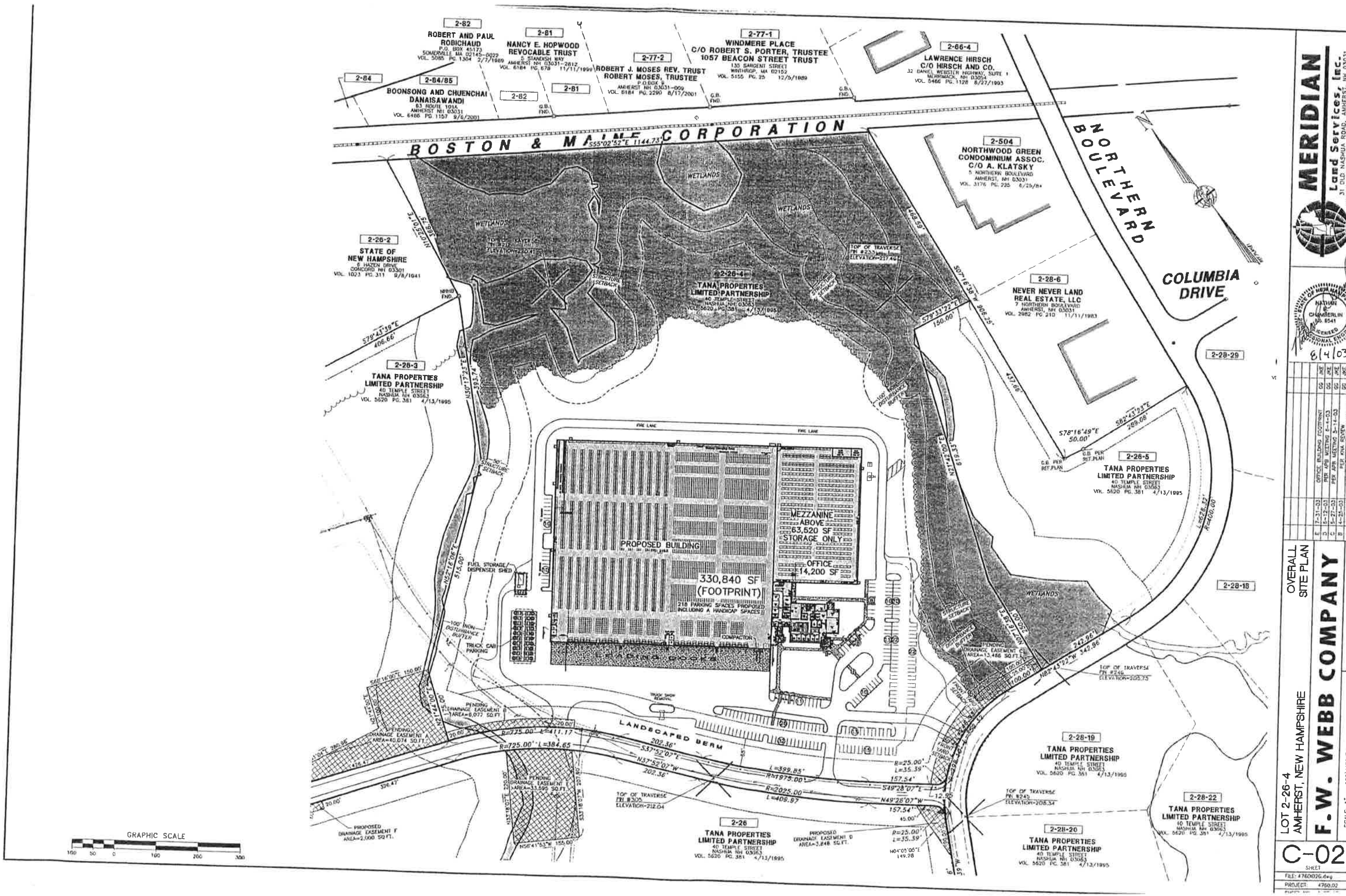


MERIDIAN
Land Services, Inc.
31 OLD NASHUA ROAD, UNIT 4, AMHERST, NH 03031
MAILING ADDRESS: PO BOX 116, MILFORD, NH 03055-0116
TEL 603-672-1441 FAX 603-672-1561 MERIDIANNH@MERIDIANSURVEYS.COM
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LEED PROVIDERS

NATHAN N. CHAMBERLIN No. 9541 LICENSED PROFESSIONAL ENGINEER STATE OF NEW HAMPSHIRE
8/4/03

REV.	DATE	DESCRIPTION	BY
E	7-31-03	PER APB MEETING 6-4-03	GG JMC
D	6-12-03	PER APB MEETING 5-14-03	GG JMC
C	5-27-03	PER NHA REVIEW	GG JMC
B	4-28-03	PER PLANNING BOARD REVIEW	GG JMC
A	3-31-03	MINOR	GG JMC

EXISTING CONDITIONS PLAN
LOT 2-26-4
AMHERST, NEW HAMPSHIRE
F.W. WEBB COMPANY
DATE: MARCH 3, 2003
SCALE: 1" = 100' HORIZ.
C-01
SHEET
FILE: 4760802G.dwg
PROJECT: 4760.02
SHEET NO.: 3 OF 17



2-82
ROBERT AND PAUL ROBICHAUD
2-81
NANCY E. HOPWOOD REVOCABLE TRUST
2-77-2
ROBERT J. MOSES REV. TRUST
ROBERT MOSES, TRUSTEE
2-77-1
WINDMERE PLACE
C/O ROBERT S. PORTER, TRUSTEE
1057 BEACON STREET TRUST
2-66-4
LAWRENCE HIRSCH
C/O HIRSCH AND CO.
2-84
2-84/85
BOONSONG AND CHUENCHAI DANAISAWANDI
BOSTON & MAINE CORPORATION
S55°02'52"E 1144.73'
WETLANDS
2-504
NORTHWOOD GREEN CONDOMINIUM ASSOC.
C/O A. KLATSKY
NORTHERN BOULEVARD
2-26-2
STATE OF NEW HAMPSHIRE
2-26-4
TANA PROPERTIES LIMITED PARTNERSHIP
COLUMBIA DRIVE
2-28-6
NEVER NEVER LAND REAL ESTATE, LLC
2-26-3
TANA PROPERTIES LIMITED PARTNERSHIP
2-28-29
2-26-5
TANA PROPERTIES LIMITED PARTNERSHIP
FIRE LANE
MEZZANINE ABOVE 63,520 SF STORAGE ONLY
PROPOSED BUILDING
330,840 SF (FOOTPRINT)
OFFICE 14,200 SF
218 PARKING SPACES PROPOSED INCLUDING 4 HANDICAP SPACES
FUEL STORAGE/ DISPENSER SHED
TRUCK CAB PARKING
COMPACTOR
LOADING DOCKS
100' NON-DISTURBANCE BUFFER
STRUCTURE SETBACK
2-28-18
LANDSCAPED BERM
2-28-19
TANA PROPERTIES LIMITED PARTNERSHIP
2-28-22
TANA PROPERTIES LIMITED PARTNERSHIP
2-28-20
TANA PROPERTIES LIMITED PARTNERSHIP
2-26
TANA PROPERTIES LIMITED PARTNERSHIP
GRAPHIC SCALE
MERIDIAN Land Services, Inc.
31 OLD NASHUA ROAD, AMHERST, NH 03031
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS
NATHAN CHAMBERLIN
8/4/03
OVERALL SITE PLAN
LOT 2-26-4
AMHERST, NEW HAMPSHIRE
F.W. WEBB COMPANY
SCALE: 1" = 100' HORIZ
DATE: MARCH 3, 2003
C-02
SHEET
PROJECT: 4760.02

ES
SHIP

13/1995

SNOW STORAGE
FIRE LANE
FIRE LANE
720.0' Battery Charging Area
CHARGING STATION
PROPOSED BUILDING
FFE: 219.5
330,840 SF
(FOOTPRINT)
MEZZANINE
ABOVE
63,520 SF
STORAGE ONLY
OFFICE
14,200 SF
ELEC
826 SF
GAS
WATER
GEN
PROPOSED PSNH
EASEMENT AREA
999.0 SQ.FT.
PROP. 12,000 GAL. FUEL
STORAGE/DISPENSER SHED
(SEE DETAIL SHEET D-08)
PROPOSED TRUCK
CAB PARKING &
CANOPY
PROPOSED 80' X 120'
GRAVED CONCRETE PAD
LAID LEVEL
SEE DETAIL 12/D-01
AT GRADE
DOCK
RECESSED
DOCK (27 PL.)
OVERHANG
PARTIALLY
RECESSED
DOCK
PROP. CANOPY
STAIRCASE
PROPOSED RETAINING WALL
CAST-IN-PLACE (TYP.)
(3 PL.)
LOADING DOCKS
CONCRETE APRON
HEAVY DUTY PAVEMENT (TYP)
(SHEET D-01, 6)
PROPOSED CAPE COD
BERM (TYP.)
SEE DETAIL 3/D-01
PROPOSED BRUSHED
6' WIDE CONCRETE
SIDEWALK (TYP.)
PROPOSED HANDICAP
RAMP (TYP.) PER
ADA STANDARDS
SEE DETAIL 7/D-01
TRUCK SNOW
REMOVAL
PROPOSED VERTICAL
GRANITE CURB (TYP.)
SEE DETAIL 2/D-01
PROPOSED SLOPED
GRANITE CURB (TYP.)
SEE DETAIL 4/D-01
FLAG POLE
LANDSCAPE
PROPOSED BRUSHED
6' WIDE CONCRETE
SIDEWALK (TYP.)
POSSIBLE FUTURE
PARKING SPACES
100' NON-DISTURBANCE
BUFFER
PENDING
DRAINAGE EASEMENT
AREA=13,460 SQ.FT.
50'
STRUCTURE
SETBACK
FRONT YARD SETBACK
SNOW STORAGE
SNOW STORAGE
SNOW STORAGE
SNOW STORAGE
EMERGENCY
EXIT (TYP.)
PENDING
DRAINAGE EASEMENT
AREA=6,077 SQ.FT.
LANDSCAPED BERM
PENDING
DRAINAGE EASEMENT
AREA=33,595 SQ.FT.
SIGHT DISTANCE EXCEEDS 510 FEET
AASHTO COMBINATION TRUCK
SIGHT DISTANCE EXCEEDS 510 FEET
AASHTO COMBINATION TRUCK
SIGHT DISTANCE EXCEEDS 510 FEET
AASHTO COMBINATION TRUCK
SIGHT DISTANCE EXCEEDS 510 FEET
AASHTO COMBINATION TRUCK
SIGHT DISTANCE EXCEEDS 510 FEET
AASHTO COMBINATION TRUCK
SIGHT DISTANCE EXCEEDS 390 FEET
AASHTO COMBINATION TRUCK
TEMPORARY ACCESS
UNTIL BON TERRAIN
DRIVE IS COMPLETED
GRAPHIC SCALE
50 25 0 50 100 150

MERIDIAN
Land Services, Inc.
31 OLD MASON ROAD, AMHERST, NH 03031
MAILING ADDRESS: PO BOX 1146, MILFORD, NH 03055-1146
TEL 603-673-1441 FAX 603-673-1384 WEBSITE: WWW.MERIDIANLANDSERVICES.COM
SURVEYORS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

STATE OF NEW HAMPSHIRE
NATHAN B. CHAMBERLIN
No. 6541
LICENSED
PROFESSIONAL ENGINEER
8/4/03

REV.	DATE	DESCRIPTION	BY
E	7-31-03	OFFICE, BUILDING FOOTPRINT	JKE
D	6-12-03	PER APB MEETING 6-4-03	JKE
C	5-27-03	PER APB MEETING 5-14-03	JKE
B	4-28-03	PER NHA REVIEW	JKE
A	3-5-03	PER PLANNING BOARD REVIEW	JKE

SITE PLAN
LOT 2-26-4
AMHERST, NEW HAMPSHIRE
F.W. WEBB COMPANY
SCALE: 1" = 50' HORIZ.
DATE: MARCH 3, 2003
C-03
SHEET
FILE: 4760C02C.dwg
PROJECT: 4760.02

PROPOSED DRAINAGE SCHEDULE: CB#3 - DMH#5

FROM			TO		Pipe		So	Length
Struct	Rim	Invert	Struct	Invert	Dia	Mat'l	Ft/Ft	Feet
CB#3	216.3	211.83	CB#2	211.38	12	HDPE	0.005	126
CB#4	215.8	211.84	CB#3	211.58	12	HDPE	0.005	48
CB#5	215.8	212.08	CB#4	211.58	12	HDPE	0.004	116
CB#6	215.5	211.63	CB#3	211.38	12	HDPE	0.0036	78
CB#7	215.5	211.2	FES#6	210.83	12	HDPE	0.0041	48
FES#6	N/A	210.86	FES#5	210.30		TSF5	0.002	105
FES#5	N/A	210.28	DMH#5	209.66	15	HDPE	0.014	39
DMH#5	214.9	209.10	CS-1	209.06	24	HDPE	0.010	5

CB DESIGN DIMENSIONS
RIM HEIGHT 8"
BRICKS - 2 ROWS 5"
CONE HEIGHT 20"
SLAB TOP (NO CONE) 8"
INSIDE DIA. 48"

CONST. DMH#2 RIM=219.1 INV.OUT=214.60
5 LF, 24" HDPE S=0.020 (2 PL.)
CONST. DMH#1 RIM=219.1 INV.IN=214.8 INV.OUT=214.60
CONST. HW#1 INV.215.00
CHAMBER SYSTEM #1 BED BOTTOM=213.5 CHAMBER INV.=214.5 FINISH GRADE=219.0
EXISTING TOPSOIL PILE TO BE USE ON GREEN AREAS OR HAULED OFF SITE
CONST. 10 LF 15" HDPE S=0.020
CONST. 70 LF 15" HDPE S=0.006
INV.=215.22
PROPOSED HYDRANT PER DETAIL
PROPOSED 8" D.I. WATER (TYP.)
45° ELBOW
INV.=215.00
CONST. 232 LF 15" HDPE S=0.018
INV.=213.10
CONST. 8 LF 24" HDPE S=0.020
CONST. DMH#3 RIM=214.5 INV.IN=211.10 (12") INV.IN=210.85 (15") INV.OUT=210.10
CONST. 65 LF 12" HDPE S=0.031
TOP OF BERM ELEV.= 213.5
CONST. 10 LF 24" HDPE S=0.010
CONST. STONE FILTRATION BERM AT HEADWALL (TYP.)
CHAMBER SYSTEM #2 BED BOTTOM=209.0± CHAMBER INV.=210.0 FINISH GRADE=214.5
CONST. HW#2 INV.210.10
1/16 BEND WITH THRUST BLOCK (TYP.)
FES#8 INV.210.3
PROP. UNDERGROUND TO TRANSFORMER PAD
PROPOSED POLE (TYP.)
CONST. 38 LF, 15" HDPE S=0.002
FES#8 INV.=210.3
TOP OF SLAB= ELEV.= 219.0
PROPOSED HYDRANT PER DETAIL
PROPOSED 8" D.I. WATER (TYP.)
CONST. HW#3 INV.210.5
CONST. LT#2 158 LF, 30" HDPE LAID LEVEL
PROPOSED GAS MAIN (TYP.)
PROPOSED UNDERGROUND COMMUNICATIONS
CONST. CB#8 RIM=215.0 INV.IN=211.00 (12") INV.IN=210.75 (15") INV.OUT=210.50
PRIMARY OVERHEAD UTILITIES CONNECTION TO BUILDING FROM EXISTING UTILITY POLE ON NORTHERN BOULEVARD
CONST. 40 LF 15" HDPE S=0.0054
CONST. FES#8 INV.IN=211.00 INV.OUT=210.97
TOP OF BERM ELEV.= 213.5
ROOF DRAIN AREA
ROOF DRAIN AREA
ROOF DRAIN AREA
ROOF DRAIN AREA
INV.=214.8
150 LF 12" HDPE S=0.020
TOP OF BERM ELEV.= 218.6
CONST. CB#1 RIM=216.2 INV.OUT=213.60
CONST. 2 LF 12" HDPE S=0.050
CONST. 15"x30" HDPE REDUCER 15" INV.=213.50 30" INV.=212.00
CONST. LT#1 117 LF, 30" HDPE LEACHING TRENCH TO BE LAID LEVEL
CONST. TS#1
TOP OF BERM ELEV.= 218.0
6" CLEANOUT RIM=218.5
INV.=211.5
137 LF, 15" HDPE S=0.010
ROOF DRAIN
PROPOSED HYDRANT PER DETAIL
REMOTE FIRE PUMPER CONNECTION WITH HOT BOX
PROPOSED 6" D.I. WATER LINE TO HYD.
6" X 6" TEE AND GATE
CONST. CB#4 RIM=214.0 INV.IN=210.13 INV.OUT=210.03
244 LF, 12" HDPE S=0.022
21 LF, 15" HDPE S=0.020
PROPOSED 4" X 6" REDUCER
CB#3
CB#4
CB#5
CB#6
CB#7
INSTALL TEMP 12" DRIVE PIPES W/ 1' MIN. COVER
PROPOSED GAS MAIN (BY OTHERS)
APPROXIMATE LOCATION OF EXISTING 12" WATER LINE
PROPOSED HYDRANT PER DETAIL
INSTALL STONE CHECK DAM (TYP.) SEE DETAIL
CONST. DMH#4 RIM=213.8 INV.IN=209.50 INV.OUT=209.10
CHAMBER SYSTEM #3 BED BOTTOM=208.0± CHAMBER INV.=209.0± TOP OF STONE=212.5
INLET ROW HEADER (2 PL. SEE DETAIL)
8 LF, 24" HDPE S=0.020
DMH#5
FES#5
FES#4
PROPOSED LANDSCAPE BERM AS REQUESTED BY AMHERST PLANNING BOARD
CONST. FES#1 INV.IN=206.15 INV.OUT=206.00
60 LF, 15" HDPE S=0.004
TIE INTO EXISTING 12" LINE PROPOSED 8" TAPPING SLEEVE AND GATE VALVE
ROAD DRAINAGE TO BE CONST. BY OTHERS
CONST. FES#3 INV.IN=205.82 INV.OUT=205.50
CONST. FES#2 INV.IN=206.20 INV.OUT=206.16
CONST. TS#2
CONST. TS#3
TOP OF TRAVERSE PK #2405 ELEVATION=212.04
TOP OF BERM ELEV.=212.5±
50 LF, 15" HDPE S=0.005
CONST. FES#6 INV.IN=210.00 INV.OUT=209.97
CONST. FES#7 INV.IN=209.73 INV.OUT=209.70
TIE INTO EXISTING LINE PROPOSED 8" TAPPING SLEEVE AND GATE VALVE
CONST. TS#4
TOP OF TRAVERSE PK #245 ELEVATION=208.34
GRAPHIC SCALE
50 25 0 50 100 150

MERIDIAN
Land Services, Inc.
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS
57 OLD NASHUA ROAD, AMHERST, NH 03031
MAILING ADDRESS: P.O. BOX 448, MILFORD, NH 03055-0018
TEL 603-673-1441 FAX 603-673-0963 E-MAIL MAIL@MERIDIANLAND.COM

NATHAN CHAMBERLIN No. 9541 LICENSED PROFESSIONAL ENGINEER
8/4/03

REV.	DATE	DESCRIPTION	DR	CK
E	7-31-03	OFFICE BUILDING FOOTPRINT	DG	JKE
D	6/12/03	PER APB MEETING 6-4-03	DG	JKE
C	5/27/03	PER APB MEETING 5-14-03	DG	JKE
B	4/25/03	PER KNA REVIEW	DG	JKE
A	3/5/03	PLANNING BOARD REVIEW	DG	JKE

GRADING and UTILITY PLAN
LOT 2-26-4
AMHERST, NEW HAMPSHIRE
F.W. WEBB COMPANY
SCALE: 1" = 50' HORIZ.
DATE: MARCH 3, 2003

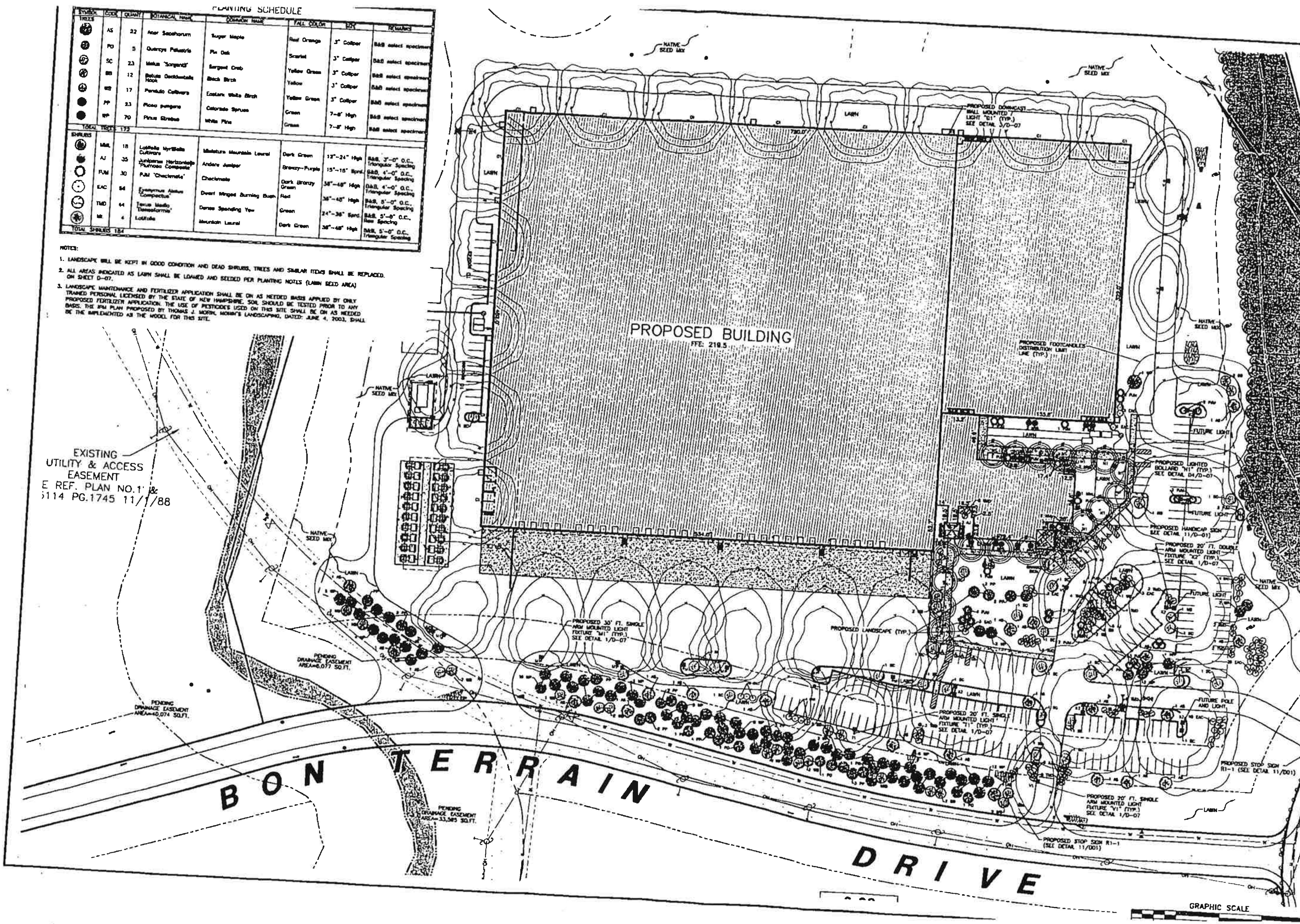
C-04
SHEET
FILE: 4760D02G.dwg
PROJECT: 4760.02
SHEET NO.: 6 OF 17

PLANTING SCHEDULE

SYMBOL	CODE	QUANT.	BOTANICAL NAME	COMMON NAME	FALL COLOR	SIZE	REMARKS
TREES							
	AS	22	Acer Saccharum	Sugar Maple	Red Orange	3" Caliper	B&B select specimen
	PO	5	Quercus Palustris	Pin Oak	Scarlet	3" Caliper	B&B select specimen
	SC	23	Malus 'Sargentii'	Sargent Crab	Yellow Green	3" Caliper	B&B select specimen
	BB	12	Betula Occidentalis Hook	Black Birch	Yellow	3" Caliper	B&B select specimen
	WB	17	Pendula Cultivars	Eastern White Birch	Yellow Green	3" Caliper	B&B select specimen
	PP	23	Picea pungens	Colorado Spruce	Green	7–8' High	B&B select specimen
	WP	70	Pinus Strobus	White Pine	Green	7–8' High	B&B select specimen
TOTAL TREES 172							
SHRUBS							
	MML	18	Latifolia Myrtifolia Cultivars	Miniature Mountain Laurel	Dark Green	12"–24" High	B&B, 3'-0" O.C., Triangular Spacing
	AJ	35	Juniperus Horizontalis 'Plumosa Compacta'	Andora Juniper	Bronzy-Purple	15"–18" Sprd.	B&B, 4'-0" O.C., Triangular Spacing
	PJM	30	PJM 'Checkmate'	Checkmate	Dark Bronzy Green	36"–48" High	B&B, 4'-0" O.C., Triangular Spacing
	EAC	84	Euonymus Alatus 'Compactus'	Dwarf Winged Burning Bush	Red	36"–48" High	B&B, 5'-0" O.C., Triangular Spacing
	TMD	44	Taxus Media 'Densiformis'	Dense Spreading Yew	Green	24"–36" Sprd.	B&B, 5'-0" O.C., Row Spacing
	ML	4	Latifolia	Mountain Laurel	Dark Green	36"–48" High	B&B, 5'-0" O.C., Triangular Spacing
TOTAL SHRUBS 184							

NOTES:

1. LANDSCAPE WILL BE KEPT IN GOOD CONDITION AND DEAD SHRUBS, TREES AND SIMILAR ITEMS SHALL BE REPLACED.
2. ALL AREAS INDICATED AS LAWN SHALL BE LOAMED AND SEEDED PER PLANTING NOTES (LAWN SEED AREA) ON SHEET D-07.
3. LANDSCAPE MAINTENANCE AND FERTILIZER APPLICATION SHALL BE ON AS NEEDED BASIS APPLIED BY ONLY TRAINED PERSONAL LICENSED BY THE STATE OF NEW HAMPSHIRE. SOIL SHOULD BE TESTED PRIOR TO ANY PROPOSED FERTILIZER APPLICATION. THE USE OF PESTICIDES USED ON THIS SITE SHALL BE ON AS NEEDED BASIS. THE IPM PLAN PROPOSED BY THOMAS J. MORIN, MORIN'S LANDSCAPING, DATED: JUNE 4, 2003, SHALL BE THE IMPLEMENTED AS THE MODEL FOR THIS SITE.



MERIDIAN Land Services, Inc.
31 OLD NASHUA ROAD, AMHERST, NH 03031
MAILING ADDRESS: PO BOX 118, MILFORD, NH 03055-0118
ENGINEERS - LAND SURVEYORS

8/4/03

REV.	DATE	DESCRIPTION		
E	7-31-03	OFFICE BLDG. FOOTPRINT, LANDSCAPE	DD	JKE
D	8-12-03	PER APB MEETING 6-4-03	DC	JKE
C	5-27-03	PER APB MEETING 5-14-03	GG	JKE
B	4-23-03	PER KNA REVIEW	CD	JKE
A	3-6-03	PER PLANNING BOARD REVIEW	GC	JKE

LANDSCAPING and LIGHTING PLAN

LOT 2-26-4
AMHERST, NEW HAMPSHIRE

F.W. WEBB COMPANY

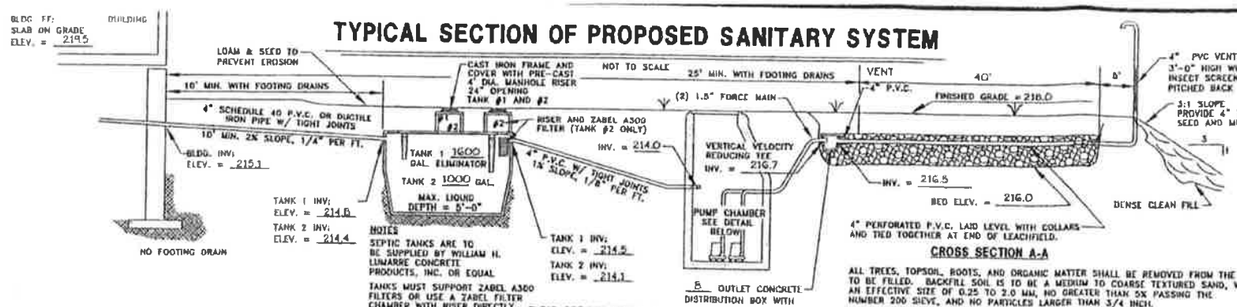
SCALE: 1" = 50' HORIZ.
DATE: MARCH 3, 2003

C-05
SHEET

FILE: 4760020.dwg

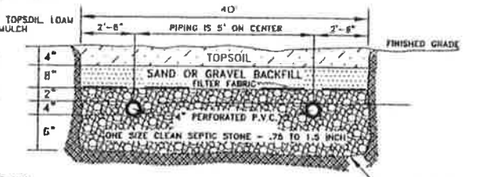
TYPICAL SECTION OF PROPOSED SANITARY SYSTEM

NOT TO SCALE



TYPICAL CROSS SECTION

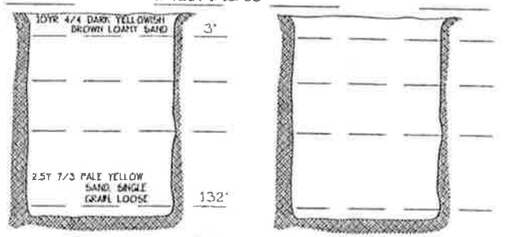
NOT TO SCALE



TEST PIT DATA

NOT TO SCALE

TP NL54 1/13/03



ROOTS	NONE
LEDGE	NONE
WATER	NONE
S.H.W.T.	96"
HARDPAN	NONE
PERC. TEST	2 MIN./IN. AT 36"
DATE	1/13/03

ROOTS	
LEDGE	
WATER	
S.H.W.T.	
HARDPAN	
PERC. TEST	____ MIN./IN. AT ____"
DATE	

SOIL DATA: MaB - HINCKLEY LOAMY SAND, 3-8% SLOPES

DESIGN DATA: 1535 GALLONS AT 2 MIN. IN. REQUIRES 3070 SQ. FT. (2 SQ. FT.- PER GAL.) PROPOSED ARE 2 40 X 40 LEACH FIELDS PROVIDING 3200 SQ. FT.

DESIGN INTENT: DUE TO SHWT AT 96" THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM (EDS) SHALL BE CONSTRUCTED AT 216.0 ELEVATION. THIS IS APPROXIMATELY 2.0' ~~ABOVE~~ BELOW ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM (EDS).

LEACHFIELD IS TO BE REBUILT IN PLACE IF REPLACEMENT BECOMES NECESSARY.

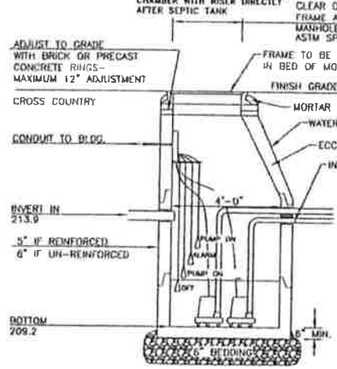
SUBDIVISION APPROVAL NO. N/A

PREVIOUS CONST. APPROVAL NO. ____

THIS SYSTEM IS DESIGNED FOR 40 EMPLOYEES AT 35 GPD = 1400 GALS. AND 27 DRIVERS AT 5 GPD = 135 GALS. TOTAL LOADING FOR THIS SYSTEM IS 1535 GPD. SEPTIC TANK SIZE REQUIRED IS 1535 GALS. x 0.75 + 1125 GALS = 2276 GALS. PROPOSED IS A 1600 GAL. ELIMINATOR TANK AND A 1000 GALLON SEPTIC TANK, PROVIDING A TOTAL OF 2600 GALLON SEPTIC TANK CAPACITY.
TOTAL LOT LOADING OF COMBINED SYSTEMS = 3350 GPD. (SYSTEM A + B)

NOTES:

1. INLET AND OUTLET TO SEPTIC TANK ARE TO BE SEALED WITH A NON-SHRINK MORTAR.
2. ALL INVERT ELEVATIONS AND GRADES ARE FROM T.B.M.
3. SEPTIC TANK SIZE DOES NOT ANTICIPATE THE USE OF A GARBAGE GRINDER IN THE SYSTEM. IF A GARBAGE GRINDER IS INSTALLED THE SEPTIC TANK SIZE SHALL BE INCREASED BY 50%.
4. SEPTIC TANK IS TO BE PUMPED AND CLEANED A MINIMUM OF EVERY THREE YEARS OR AT MORE FREQUENT INTERVALS IF NEEDED.
5. THIS SYSTEM IS NOT DESIGNED FOR DISCHARGES FROM WATER PURIFICATION SYSTEMS OR FLOOR DRAINS.
6. DO NOT INTRODUCE GREASE, OIL OR STRONG CHEMICALS INTO SEPTIC SYSTEM; DO NOT PARK OR DRIVE VEHICLES OVER LEACHFIELD.



(2) 1.5" DIA. FORCE MAIN 160 PSI RATING SLOPED CONTINUOUSLY UPWARD TO SYSTEM. BURIED 4' DEEP TO PREVENT FREEZING

PUMP 2 ON	ELEVATION 212.2 = 36"
ALARM ON	ELEVATION 212.0 = 34"
PUMP 1 ON	ELEVATION 211.2 = 30"
PUMP(S) OFF	ELEVATION 209.7 = 6"
PUMP MODEL	MYERS 1/3 HP OR EQUAL
DOSE VOLUME	187.2 GAL.
STATIC HEAD	7.7'
FRICTION LOSS	10.6'
TDH AT 20 GPM	18.3'

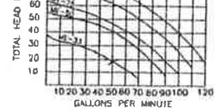
ALARM TO BE LOCATED IN BUILDING IN VISIBLE LOCATION

PUMP AND ALARMS TO BE ON SEPARATE CIRCUITS

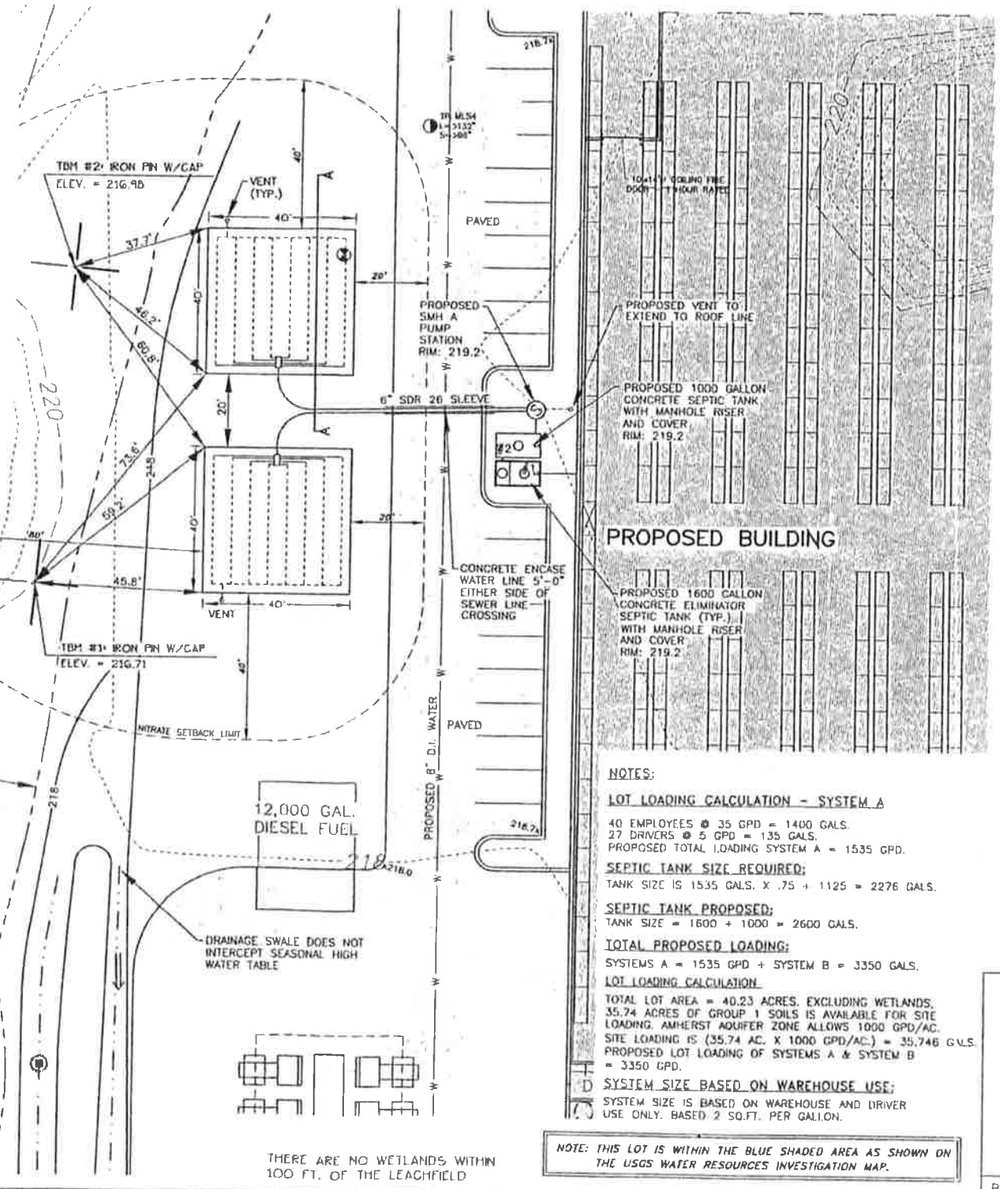
PUMP #1 AND #2 TO ALTERNATE BETWEEN DOSES

1" DEPTH = 7.8 GALS.

PERFORMANCE CURVES
MYERS ME SERIES 0.33 TO 1.5 HP



PUMP MANHOLE
SCALE: NONE
B



TEST PIT
PERC TEST
SEPTIC TANK
DISTRIBUTION BOX
WELL
UTILITY POLE
120.8 / 120.6 EXISTING ELEVATION / PROPOSED GRADE
APPROXIMATE PROPERTY LINE
BUILDING SETBACKS
WATER LINE
DRAINAGE LINE
EDGE OF PAVEMENT
EDGE OF WETLAND
BROOK OR RUNOFF
FENCE LINE
STONE WALL
PERFORATED PIPE
SOLID PIPE
127 / 124 EXISTING / PROPOSED CONTOUR

THIS PLAN HAS BEEN PREPARED FOR SEWAGE DISPOSAL SYSTEM DESIGN PURPOSES ONLY. IT IS NOT A BOUNDARY SURVEY. LOT LINE LOCATION SHOULD BE VERIFIED BY A LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION.

ANY DISCREPANCIES, CHANGES, SUBSTITUTIONS OR DEVIATIONS FROM THIS PLAN REQUIRES NOTIFICATION OF THE DESIGNER. USE OF THIS PLAN FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF THE SEWAGE DISPOSAL SYSTEM SHALL BE AT THE USERS RISK.

THERE ARE NO WETLANDS WITHIN 100 FT. OF THE LEACHFIELD

NOTES:

LOT LOADING CALCULATION - SYSTEM A

40 EMPLOYEES @ 35 GPD = 1400 GALS.
27 DRIVERS @ 5 GPD = 135 GALS.
PROPOSED TOTAL LOADING SYSTEM A = 1535 GPD.

SEPTIC TANK SIZE REQUIRED:

TANK SIZE IS 1535 GALS. X .75 + 1125 = 2276 GALS.

SEPTIC TANK PROPOSED:

TANK SIZE = 1600 + 1000 = 2600 GALS.

TOTAL PROPOSED LOADING:

SYSTEMS A = 1535 GPD + SYSTEM B = 3350 GALS.

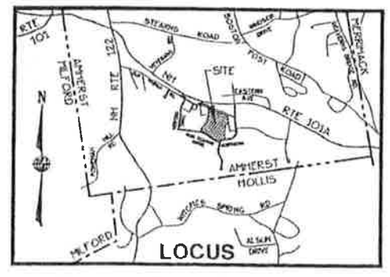
LOT LOADING CALCULATION

TOTAL LOT AREA = 40.23 ACRES. EXCLUDING WETLANDS, 35.74 ACRES OF GROUP 1 SOILS IS AVAILABLE FOR SITE LOADING. AMHERST AQUIFER ZONE ALLOWS 1000 GPD/AC.
SITE LOADING IS (35.74 AC. X 1000 GPD/AC.) = 35,746 GALS.
PROPOSED LOT LOADING OF SYSTEMS A & SYSTEM B = 3350 GPD.

SYSTEM SIZE BASED ON WAREHOUSE USE:

SYSTEM SIZE IS BASED ON WAREHOUSE AND DRIVER USE ONLY. BASED 2 SQ.FT. PER GALLON.

NOTE: THIS LOT IS WITHIN THE BLUE SHADED AREA AS SHOWN ON THE USGS WATER RESOURCES INVESTIGATION MAP.



PROPOSED SEWAGE DISPOSAL SYSTEM A

F.W. WEBB COMPANY

AMHERST, NEW HAMPSHIRE

SCALE: 1"=20' MARCH 5, 2003

OWNER: TANA PROPERTIES LIMITED PARTNERSHIP
40 TEMPLE ROAD, NASHUA, NH 03060

REV. DATE	DESCRIPTION	INIT.
4/25/03	WATER LINE & NOTES	C.G.

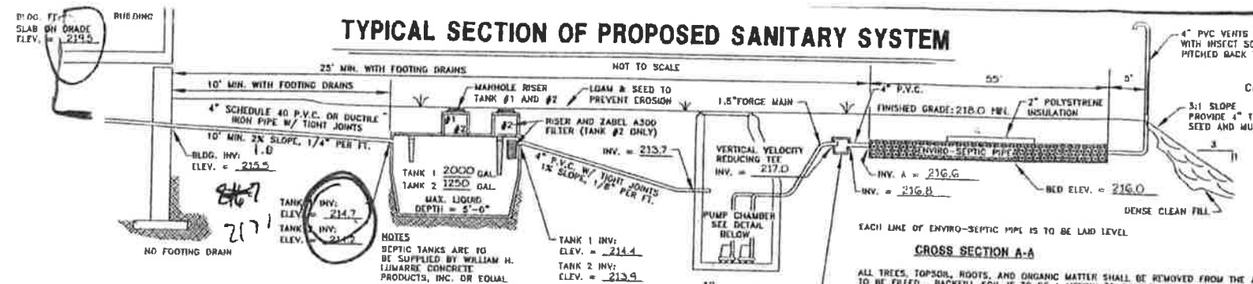
DESIGNER'S STAMP

MERIDIAN
Land Services, Inc.
31 OLD NASHUA ROAD, SUITE 2, AMHERST, NH 03031
MAILING: PO BOX 118, MILFORD, NH 03055-0118
TEL 603-673-1441 FAX 603-673-1564
ENGINEERS • LAND SURVEYORS • SCIENTISTS • LAND PLANNERS

PARCEL: LOT 2-26-4 | PROJECT: 4760.02 | SHEET NO. 8 OF 17

TYPICAL SECTION OF PROPOSED SANITARY SYSTEM

NOT TO SCALE



NOTES

SEPTIC TANKS ARE TO BE SUPPLIED BY WILLIAM H. LUMARRE CONCRETE PRODUCTS, INC. OR EQUAL

TANKS MUST SUPPORT ZABEL A300 FILTERS OR USE A ZABEL FILTER CHAMBER WITH RISER DIRECTLY CLEAR OPENING INCLUDING FRAME AND COVER 30" AFTER SEPTIC TANK

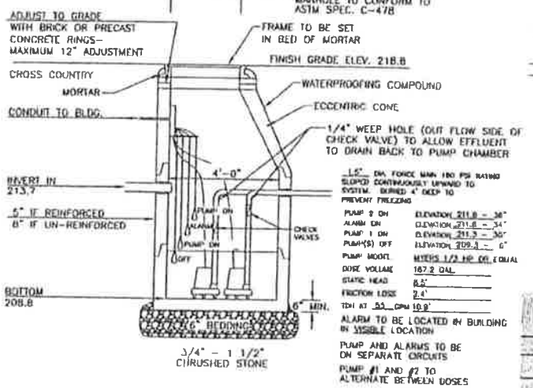
MANHOLE TO CONFORM TO ASTM SPEC. C-478

CROSS SECTION A-A

ALL TREES, TOPSOIL, ROOTS, AND ORGANIC MATTER SHALL BE REMOVED FROM THE AREA TO BE FILLED. BACKFILL SOIL IS TO BE A MEDIUM TO COARSE TEXTURED SAND, WITH AN EFFECTIVE SIZE OF 0.25 TO 2.0 MM, NO GREATER THAN 5% PASSING THE NUMBER 200 SIEVE, AND NO PARTICLES LARGER THAN 3/4 INCH.

NOTES:

1. INLET AND OUTLET TO SEPTIC TANK ARE TO BE SEALED WITH A NON-SHRINK MORTAR.
2. ALL INVERT ELEVATIONS AND GRADES ARE FROM T.B.M.
3. SEPTIC TANK SIZE DOES NOT ANTICIPATE THE USE OF A GARBAGE GRINDER IN THE SYSTEM. IF A GARBAGE GRINDER IS INSTALLED THE SEPTIC TANK SIZE SHALL BE INCREASED BY 50%.
4. SEPTIC TANK IS TO BE PUMPED AND CLEANED A MINIMUM OF EVERY THREE YEARS OR AT MORE FREQUENT INTERVALS IF NEEDED.
5. THIS SYSTEM IS NOT DESIGNED FOR DISCHARGES FROM WATER PURIFICATION SYSTEMS OR FLOOR DRAINS.
6. DO NOT INTRODUCE GREASE, OIL OR STRONG CHEMICALS INTO SEPTIC SYSTEM; DO NOT PARK OR DRIVE VEHICLES OVER LEACHFIELD.



1.5" DIA. FORCE MAIN 160 PSI RATING SLOPED CONTINUOUSLY UPWARD TO SYSTEM. BURIED 4' DEEP TO PREVENT FREEZING

PUMP 2 ON	ELEVATION 211.8 - 36"
ALARM ON	ELEVATION 211.8 - 34"
PUMP 1 ON	ELEVATION 211.3 - 30"
PUMP(S) OFF	ELEVATION 209.3 - 6"
PUMP MODEL	MYERS 1/3 HP DR EQUAL
DOSE VOLUME	187.2 GAL.
STATIC HEAD	8.5'
FRICTION LOSS	2.4'
TDH AT 55 GPM	10.9'

ALARM TO BE LOCATED IN BUILDING IN VISIBLE LOCATION

PUMP AND ALARMS TO BE ON SEPARATE CIRCUITS

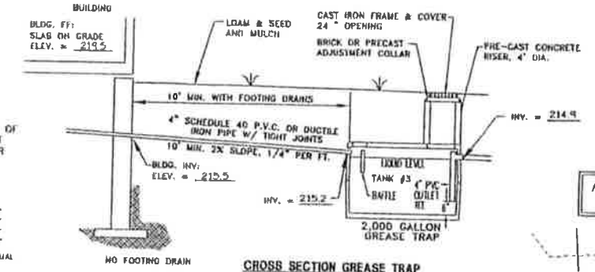
PUMP #1 AND #2 TO ALTERNATE BETWEEN DOSES

1" DEPTH = 7.8 GALS.

PUMP MANHOLE

SCALE: NONE

(B)

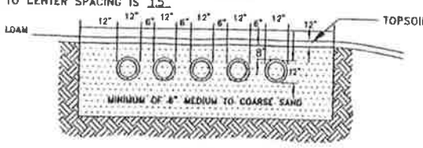


CROSS SECTION GREASE TRAP

NOT TO SCALE

TYPICAL CROSS SECTION

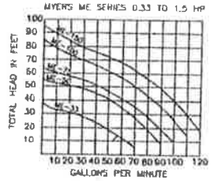
NOT TO SCALE



ALL LINES LEVEL

DESIGN PROPOSES 22 ROWS OF ENVIRO-SEPTICS

PERFORMANCE CURVES MYERS ME SERIES 0.33 TO 1.5 HP

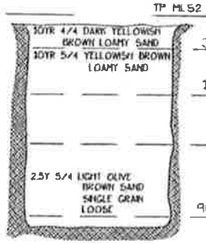


NOTE: THIS LOT IS WITHIN THE BLUE SHADED AREA AS SHOWN ON THE USGS WATER RESOURCES INVESTIGATION MAP.

TEST PIT DATA

NOT TO SCALE

TP ML52 1/13/03



ROOTS	NONE
LEDGE	NONE
WATER	60"
S.H.W.T.	40"
HARDPAN	NONE
PERC. TEST	2 MIN./IN. AT 36"
DATE	1/13/03

ROOTS	
LEDGE	
WATER	
S.H.W.T.	
HARDPAN	
PERC. TEST	____ MIN./IN. AT ____"
DATE	

SOIL DATA: HsB - HINCKLEY LOAMY SAND, 3-8% SLOPES

DESIGN DATA: 1815 GPD AT 2 MIN./IN. REQUIRES 1089 LIN. FT. (LENGHT IS BASED ON 12 MIN./IN PERC. RATE) PROPOSED ARE 22 ROWS OF 55 LIN. FT. EACH OR 1210 LIN FT. TOTAL

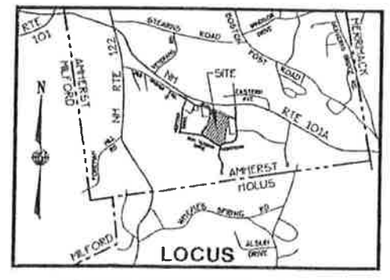
DESIGN INTENT: DUE TO SHWT AT 40" THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM (EDS) SHALL BE CONSTRUCTED AT 216.0 ELEVATION. THIS IS APPROXIMATELY 3.6' ABOVE ~~BELOW~~ ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM (EDS).

LEACHFIELD IS TO BE REBUILT IN PLACE IF REPLACEMENT BECOMES NECESSARY.

SUBDIVISION APPROVAL NO. N/A

PREVIOUS CONST. APPROVAL NO. ____

THIS SYSTEM IS DESIGNED FOR 25 EMPLOYEES AT 15 GPD = 375 GALS. AND 60 PERSONS AT SEMINARS AT 5 GPD = 300 GALS AND 95 KITCHEN MEALS AT 12 GPD = 1140 GALS. TOTAL LOADING FOR THIS SYSTEM IS 1815 GPD. SEPTIC TANK REQUIRED IS 1815 GALS. x 0.75 = 1125 GALS = 2487 GALS. PROPOSED IS A 2000 GALLON AND A 1250 SEPTIC TANK PROVIDING A TOTAL OF 3250 GALLONS OF SEPTIC TANK CAPACITY. GREASE TRAP SIZE REQUIRED IS 1140 X 1.5 = 1710 GALLONS. PROPOSED IS A 2000 GALLON GREASE TRAP.



PROPOSED SEWAGE DISPOSAL SYSTEM B

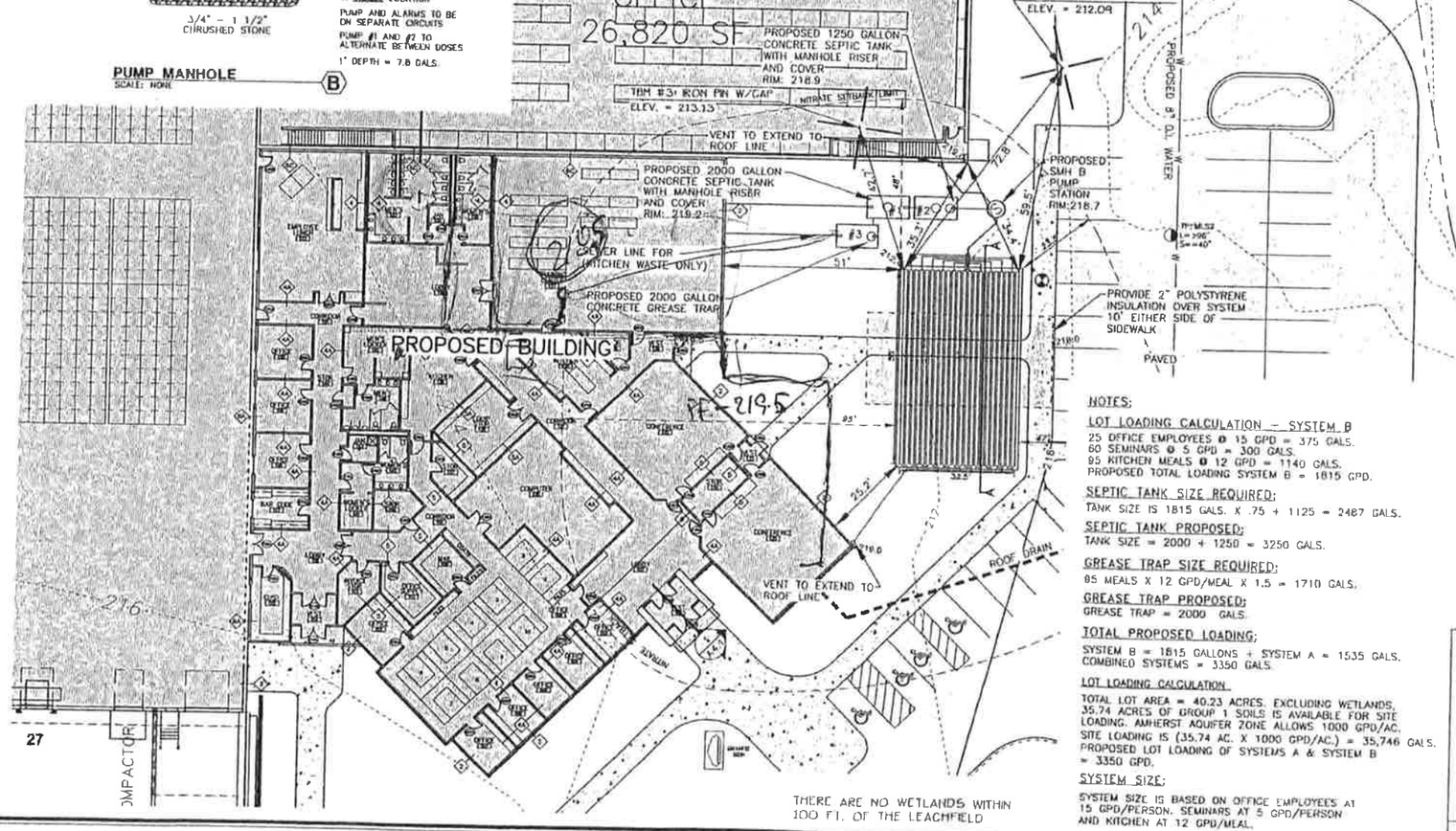
F.W. WEBB COMPANY

AMHERST, NEW HAMPSHIRE

SCALE: 1"=20' MARCH 5, 2003

OWNER: TANA PROPERTIES LIMITED PARTNERSHIP

40 TEMPLE ROAD, NASHUA, NH 03060



	TEST PIT
	PERC TEST
	SEPTIC TANK
	DISTRIBUTION BOX
	WELL
	UTILITY POLE
120.6 (120.7)	EXISTING ELEVATION / PROPOSED GRADE
	APPROXIMATE PROPERTY LINE
W	BUILDING SETBACKS
D	WATER LINE
	DRAINAGE LINE
	EDGE OF PAVEMENT
	EDGE OF WETLAND
	BROOK OR RUNOFF
	FENCE LINE
	STONE WALL
	PERFORATED PIPE
	SOLID PIPE
122 / 124	EXISTING CONTOUR / PROPOSED CONTOUR

THIS PLAN HAS BEEN PREPARED FOR SEWAGE DISPOSAL SYSTEM DESIGN PURPOSES ONLY. IT IS NOT A BOUNDARY SURVEY. LOT LINE LOCATION SHOULD BE VERIFIED BY A LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION.

ANY DISCREPANCIES, CHANGES, SUBSTITUTIONS OR DEVIATIONS FROM THIS PLAN REQUIRES NOTIFICATION OF THE DESIGNER. USE OF THIS PLAN FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF THE SEWAGE DISPOSAL SYSTEM SHALL BE AT THE USERS RISK.

THERE ARE NO WETLANDS WITHIN 100 FT. OF THE LEACHFIELD

NOTES;

LOT LOADING CALCULATION - SYSTEM B

25 OFFICE EMPLOYEES @ 15 GPD = 375 GALS.
60 SEMINARS @ 5 GPD = 300 GALS.
95 KITCHEN MEALS @ 12 GPD = 1140 GALS.
PROPOSED TOTAL LOADING SYSTEM B = 1815 GPD.

SEPTIC TANK SIZE REQUIRED:

TANK SIZE IS 1815 GALS. X .75 + 1125 = 2487 GALS.

SEPTIC TANK PROPOSED:

TANK SIZE = 2000 + 1250 = 3250 GALS.

GREASE TRAP SIZE REQUIRED:

95 MEALS X 12 GPD/MEAL X 1.5 = 1710 GALS.

GREASE TRAP PROPOSED:

GREASE TRAP = 2000 GALS.

TOTAL PROPOSED LOADING:

SYSTEM B = 1815 GALLONS + SYSTEM A = 1535 GALS.
COMBINED SYSTEMS = 3350 GALS.

LOT LOADING CALCULATION

TOTAL LOT AREA = 40.23 ACRES. EXCLUDING WETLANDS, 35.74 ACRES OF GROUP 1 SOILS IS AVAILABLE FOR SITE LOADING. AMHERST AQUIFER ZONE ALLOWS 1000 GPD/AC. SITE LOADING IS (35.74 AC. X 1000 GPD/AC.) = 35,746 GALS. PROPOSED LOT LOADING OF SYSTEMS A & SYSTEM B = 3350 GPD.

SYSTEM SIZE:

SYSTEM SIZE IS BASED ON OFFICE EMPLOYEES AT 15 GPD/PERSON. SEMINARS AT 5 GPD/PERSON AND KITCHEN AT 12 GPD/MEAL.

REV. DATE	DESCRIPTION	INIT.
4/25/03	BUILDING FOOTPRINT + NOTES	G.G

MERIDIAN
Land Services, Inc.
31 OLD NASHUA ROAD, SUITE 2, AMHERST, NH 03031
MAILING: PO BOX 118, MILFORD, NH 03055-0118
TEL 603-673-1441 FAX 603-673-1584
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

DESIGNER'S STAMP

PARCEL: LOT 2-26-4 | PROJECT: 4760.02 | SHEET NO. 9 OF 17

ROAD DESIGN REQUIREMENTS

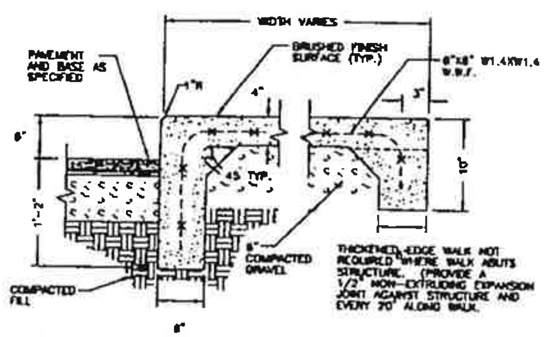
ROAD GRADE (MIN.)	1%
ROAD GRADE (MAX.)	8%
EDGE OF PAVEMENT RADII (MIN.)	25'
DESIGN SPEED (LOCAL STREET)	25 MPH
BINDER COURSE	2" (MIN.)
WEARING COURSE	1" (MIN.)

NOTES:

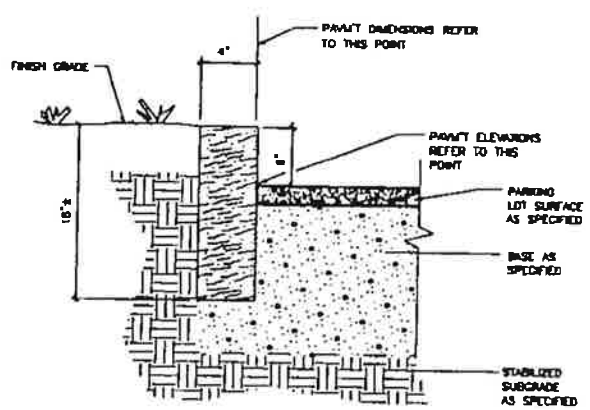
1. THE ROAD DESIGNS ARE IN ACCORD WITH THE FOLLOWING DESIGN STANDARDS:
   NHDOT – "HIGHWAY DESIGN MANUAL" MAY 1981
   AASHTO – "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS", 1990
   TOGRCS – "ROAD CONSTRUCTION SPECIFICATIONS OF THE TOWN OF GOFFSTOWN"

GENERAL ROAD CONSTRUCTION NOTES

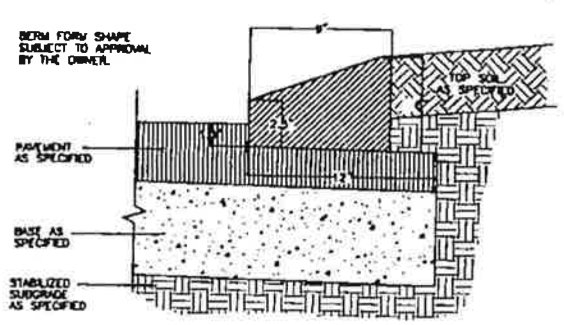
1. REMOVE ALL LOAM, CLAY, MUCK, STUMPS, AND OTHER IMPROPER ROAD FOUNDATION MATERIAL WITHIN 3' OF SUB-GRADE. REPLACE WITH COMPACTED GRANULAR FILL MATERIAL ACCEPTABLE TO THE DIRECTOR OF PUBLIC WORKS. COMPACTION TO BE AT LEAST 95% OF THE DRY WEIGHT AS DETERMINED BY MODIFIED PROCTOR TESTING (ASTM 1557).
2. ALL PAVEMENT, BASE MATERIALS AND WORKMANSHIP TO BE IN COMPLIANCE WITH N.H.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" APPROVED AND ADOPTED 1990.
3. A 2' SHOULDER EXTENSION IS REQUIRED WHERE THE FILL SLOPE IS STEEPER THAN 3:1, TO PROVIDE FOR GUARDRAIL CONSTRUCTION AND SUPPORT.
4. UNDERDRAIN PIPE SHALL BE PROVIDED IN ALL AREAS WHERE THE SEASONAL HIGH WATER TABLE IS WITHIN 5 FT OF FINISH GRADE. THE PIPE SHALL DISCHARGE THROUGH A MORTARED RUBBLE AND MASONRY ENDWALL OR INTO A CATCH BASIN.



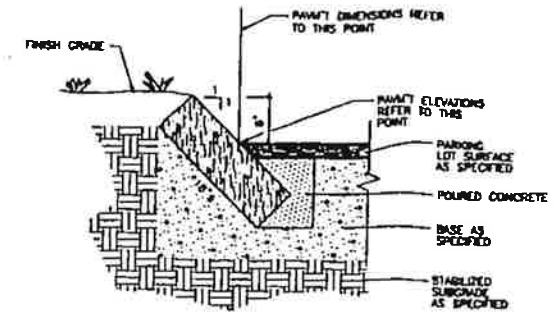
BRUSHED CONCRETE WALK (1 / D-01)
SCALE: NONE



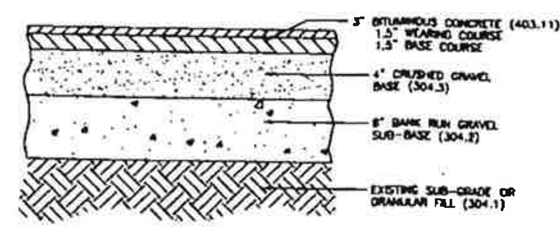
VERTICAL GRANITE CURB (2 / D-01)
SCALE: NONE



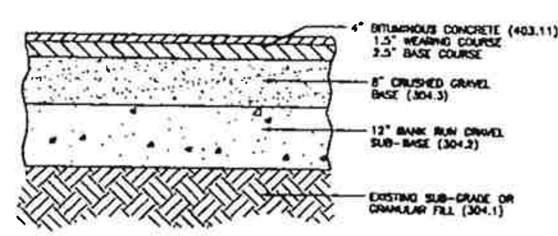
CAPE COD BERM (3 / D-01)
AUG. 28, 1996
SCALE: NONE



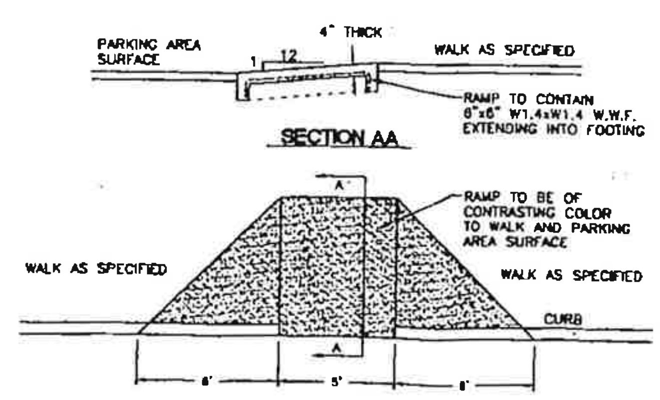
CURB - SLOPED GRANITE (4 / D-1)
FEB. 5, 1997
SCALE: NONE



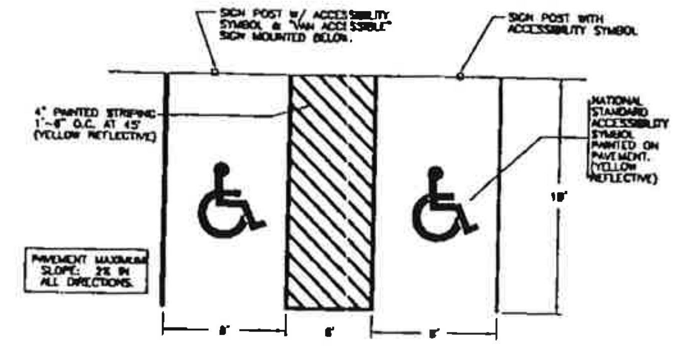
STANDARD DUTY PAVEMENT (5 / D-01)
(NHDOT ITEM NO.)
DEC. 20, 1995
SCALE: NONE



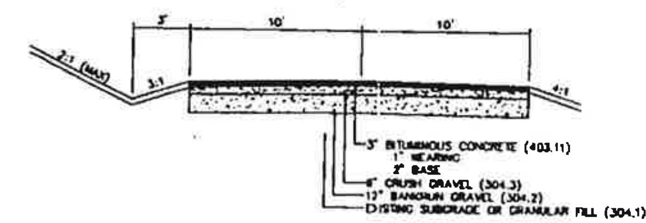
HEAVY DUTY PAVEMENT (6 / D-01)
(NHDOT ITEM NO.)
DEC. 20, 1995
SCALE: NONE



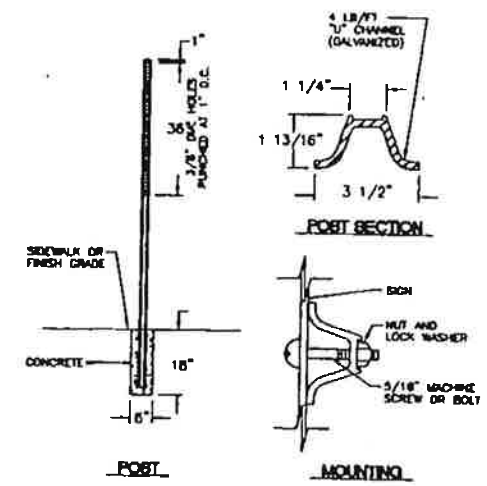
HANDICAP SIDEWALK RAMP (7 / D-01)
FEB. 5, 1997
SCALE: NONE



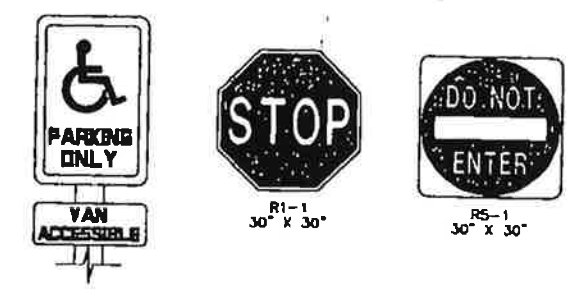
HANDICAP PARKING STALL (8 / D-01)
(NHDOT ITEM NO.)
AUG. 4, 1995
SCALE: NONE



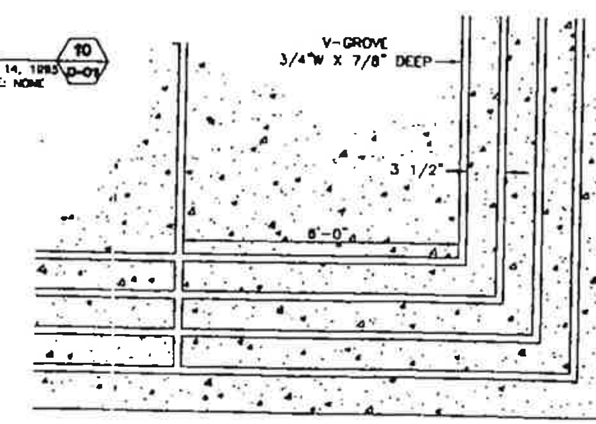
FIRE ROAD SECTION (9 / D-01)
(NH DOT ITEM NO.)
JAN. 8, 2003
SCALE: NONE



SIGN POST (10 / D-01)
(NHDOT ITEM NO.)
JUNE 14, 1995
SCALE: NONE



SIGNS (11 / D-01)
SCALE: NONE



CONCRETE PAD GROOVES (12 / D-01)
SCALE: NONE

DIG SAFE 1-888-344-7233

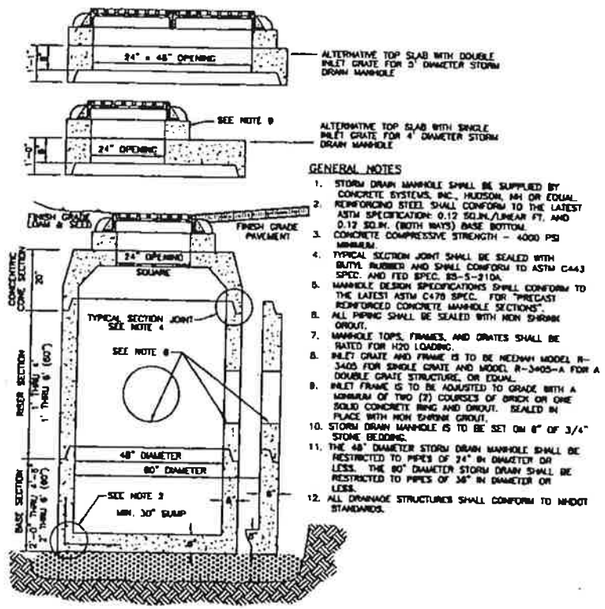
MERIDIAN Land Services, Inc.
31 OLD NASHUA ROAD, AMHERST, NH 03031
MAILING ADDRESS: PO BOX 118, MILFORD, NH 03055-0118
TEL 603-673-1441 FAX 603-673-1584
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

STATE OF NEW HAMPSHIRE — NATHAN H. CHAMBERLIN No. 8041 — LICENSED PROFESSIONAL ENGINEER
6/12/03

REV.	DATE	DESCRIPTION	DR	CK
E	6-18-03	PER APB MEETING 6-4-03	DB	JWE
D	5-28-03	PER APB REVIEW	DB	JWE
C	4-25-03	PER KNA REVIEW	DB	JWE
A	3-5-03	PER PLANNING BOARD REVIEW	DB	JWE

DETAILS
ROAD CONSTRUCTION
MAP 2 LOT 26-4
AMHERST, NEW HAMPSHIRE
F.W. WEBB COMPANY
SCALE: 1" = NONE
DATE: MARCH 3, 2003

D-01
SHEET
FILE: 4760V00-1E.dwg
PROJECT: 4760.02
SHEET NO.: 10 OF 17



GENERAL NOTES

1. STORM DRAIN MANHOLE SHALL BE SUPPLIED BY CONCRETE SYSTEMS, INC., HUDSON, NH OR EQUAL.
2. REINFORCING STEEL SHALL CONFORM TO THE LATEST ASTM SPECIFICATION: 0.12 SQ.IN./LINEAR FT. AND 0.12 SQ.IN. (BOTH WAYS) BASE BOTTOM.
3. CONCRETE COMPRESSIVE STRENGTH - 4000 PSI MINIMUM.
4. TYPICAL SECTION JOINT SHALL BE SEALED WITH BUTYL RUBBER AND SHALL CONFORM TO ASTM C443 SPEC. AND FED SPEC. SS-S-210A.
5. MANHOLE DESIGN SPECIFICATIONS SHALL CONFORM TO THE LATEST ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
6. ALL PIPING SHALL BE SEALED WITH NON SHRINK GROUT.
7. MANHOLE TOPS, FRAMES, AND GRATES SHALL BE RATED FOR H20 LOADING.
8. INLET GRATE AND FRAME IS TO BE NEENAH MODEL R-3405 FOR SINGLE GRATE AND MODEL R-3405-A FOR A DOUBLE GRATE STRUCTURE, OR EQUAL.
9. INLET FRAME IS TO BE ADJUSTED TO GRADE WITH A MINIMUM OF TWO (2) COURSES OF BRICK OR ONE SOLID CONCRETE RING AND GROUT. SEALED IN PLACE WITH NON-SHRINK GROUT.
10. STORM DRAIN MANHOLE IS TO BE SET ON 6" OF 3/4" STONE BEDDING.
11. THE 48" DIAMETER STORM DRAIN MANHOLE SHALL BE RESTRICTED TO PIPES OF 24" IN DIAMETER OR LESS. THE 80" DIAMETER STORM DRAIN SHALL BE RESTRICTED TO PIPES OF 36" IN DIAMETER OR LESS.
12. ALL DRAINAGE STRUCTURES SHALL CONFORM TO NHDOT STANDARDS.

STORM CATCH BASIN

(1) D-02

AUG. 17, 2000
SCALE: NONE

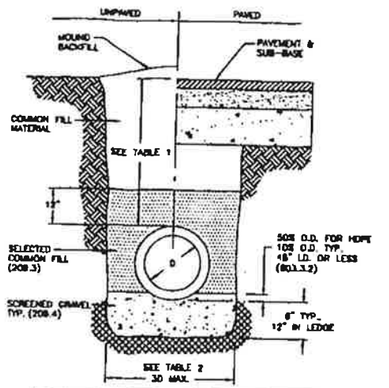


TABLE 1

LOCATION	PIPE MATERIAL	MINIMUM COVER
PAVED ROADS	ALL	3 FT.
UNPAVED ROADS	ALL	3 FT.
DRIVEWAYS	ALL	1 FT.
UNPAVED AREAS	ALL	2 FT.

TABLE 2 (208.4.1.2)

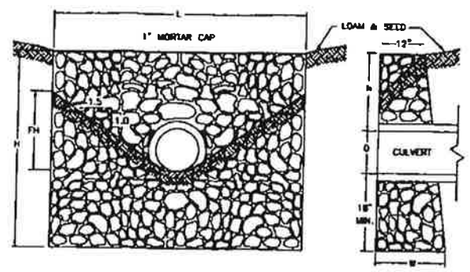
INSIDE DIAMETER	TOTAL WIDTH
12" TO 24"	I.D. + 24"
OVER 24"	2 x I.D.

TYPICAL DRAINAGE TRENCH (803.3)

(NHDOT ITEM NO.)

(3) D-02

DEC. 7, 1994
SCALE: NONE

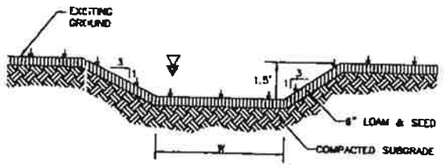


CULVERT DIAM. D	HEADWALL LENGTH L	HEADWALL HEIGHT H	FILL HEIGHT FH	PIPE COVER h	HEADWALL BOTTOM WIDTH W
INCHES	FEET & INCHES				
12	4-3	3-8	1-1	1-3	7-0
15	6-0	4-3	1-7	1-6	2-1
18	7-0	4-6	1-10	1-6	2-2
24	8-0	5-0	2-4	1-6	2-3

FIELDSTONE & MORTAR HEADWALLS

(6) D-02

MAR. 16, 2001
SCALE: NONE

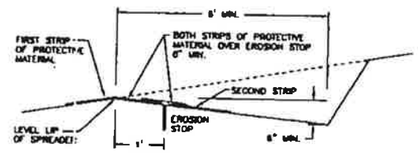


TREATMENT SWALE	DISCHARGE (T=10) Q CFS	WIDTH W FT.	LENGTH L FT.	SLOPE S FT/FT.	DESIGN DEPTH D FT.	FLOW DEPTH d FT.
TS#1	1.4	2	100	0.002	1.5	0.44
TS#2	4.0	3	100	0.001	1.5	0.82
TS#3	2.3	3	100	0.002	1.5	0.49
TS#4	0.8	0	100	0.002	1.5	0.51

TYPICAL STORMWATER RUNOFF TREATMENT SWALE

(8) D-02

DEC. 21, 1995
SCALE: NONE

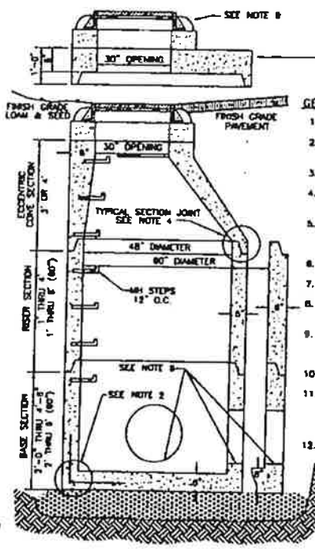


1. CONSTRUCT THE LEVEL SPREADER LIP ON A ZERO PERCENT GRADE TO ENSURE UNIFORM SPREADING OF RUNOFF.
2. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL AND NOT FILL.
3. AN EROSION STOP SHALL BE PLACED VERTICALLY A MINIMUM OF SIX INCHES DEEP IN A SLIT TRENCH ONE FOOT BACK OF AND PARALLEL TO THE LIP. THE EROSION STOP SHALL EXTEND THE ENTIRE LENGTH OF THE LIP.
4. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING TWO STRIPS OF JUTE OR EXCELSIOR MATTING ALONG THE LIP. EACH STRIP SHALL OVERLAP THE EROSION STOP BY AT LEAST SIX INCHES.
5. THE ENTRANCE CHANNEL TO THE LEVEL SPREADER SHALL NOT EXCEED A ONE PERCENT GRADE FOR AT LEAST 50 FEET BEFORE ENTERING THE SPREADER.
6. THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT RECONCENTRATE IMMEDIATELY BELOW THE SPREADER.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED.

LEVEL SPREADER CROSS-SECTION

(9) D-02

OCT. 17, 1994
SCALE: NONE



GENERAL NOTES

1. STORM DRAIN MANHOLE SHALL BE SUPPLIED BY CONCRETE SYSTEMS, INC., HUDSON, NH OR EQUAL.
2. REINFORCING STEEL SHALL CONFORM TO THE LATEST ASTM SPECIFICATION: 0.13 SQ.IN./LINEAR FT. AND 0.12 SQ.IN. (BOTH WAYS) BASE BOTTOM.
3. CONCRETE COMPRESSIVE STRENGTH - 4000 PSI MINIMUM.
4. TYPICAL SECTION JOINT SHALL BE SEALED WITH BUTYL RUBBER AND SHALL CONFORM TO ASTM C443 SPEC. AND FED SPEC. SS-S-210A.
5. STORM DRAIN MANHOLE DESIGN SPECIFICATIONS SHALL CONFORM TO THE LATEST ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
6. ALL PIPING SHALL BE SEALED WITH NON SHRINK GROUT.
7. MANHOLE TOPS, FRAMES, AND GRATES SHALL BE RATED FOR H20 LOADING.
8. FRAME AND COVER SHALL BE HEAVY DUTY WITH A MINIMUM INSIDE CLEARANCE OF 30", SUCH AS THE NEENAH R-1754-A OR EQUAL.
9. FRAME IS TO BE ADJUSTED TO GRADE WITH A MINIMUM OF TWO (2) COURSES OF BRICK OR ONE SOLID CONCRETE RING AND GROUT. SEALED IN PLACE WITH NON-SHRINK GROUT.
10. STORM DRAIN MANHOLE IS TO BE SET ON 6" OF 3/4" STONE BEDDING.
11. THE 48" DIAMETER STORM DRAIN MANHOLE SHALL BE RESTRICTED TO PIPES OF 24" IN DIAMETER OR LESS. THE 80" DIAMETER STORM DRAIN SHALL BE RESTRICTED TO PIPES OF 36" IN DIAMETER OR LESS.
12. ALL DRAINAGE STRUCTURES SHALL CONFORM TO NHDOT STANDARDS.

STORM DRAIN MANHOLE

(2) D-02

AUG. 17, 2000
SCALE: NONE

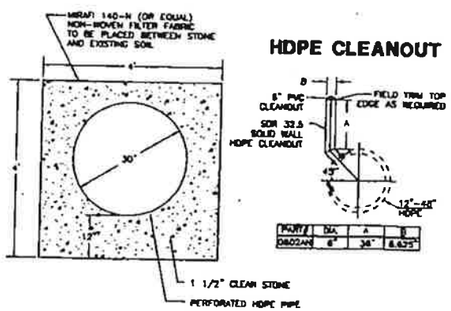
1. CATCH BASINS SHALL BE INSPECTED AFTER EVERY MAJOR STORM FOR POLLUTANT BUILD-UP, SAID POLLUTANTS CONSISTING OF SEDIMENTS, DEBRIS AND/OR FLOATING HYDROCARBONS.
2. IN THE ABSENCE OF A MAJOR STORM, THE SYSTEM MUST BE CHECKED AT LEAST TWICE A YEAR, IN THE SPRING AND FALL, FOR SEDIMENT, DEBRIS AND HYDROCARBON ACCUMULATION.
3. IF, UPON INSPECTION, A SIGNIFICANT AMOUNT OF POLLUTANTS HAVE ACCUMULATED IN ANY OF THE EXISTING OR PROPOSED CATCH BASINS, THEN THE POLLUTANTS MUST BE REMOVED AND DISPOSED OF PROPERLY, AND THE COMPLETE DRAINAGE SYSTEM HYDRO FLUSHED.
4. THE INFILTRATION BASINS AND LEACHING TRENCHES SHALL BE INSPECTED IN CONJUNCTION WITH THE CATCH BASINS. IN THE EVENT THAT SEDIMENT ACCUMULATION HAS OCCURED IN ANY EITHER OF THE TWO LEACHING TRENCHES, OR IN THE ISOLATED ROW OF DISTRIBUTION CHAMBERS, THEN SAID SEDIMENTS SHALL BE REMOVED PROMPTLY AND DISPOSED OF PROPERLY.
5. A SIGNIFICANT AMOUNT OF POLLUTANTS SHALL BE DEFINED AS A NOTICABLE SHEEN ON THE WATER SURFACE IN THE SUMP OF ANY OF THE CATCH BASINS AND/OR WHEN SEDIMENTS HAVE ACCUMULATED TO WITHIN 8 INCHES BELOW THE OUTLET OF ANY OF THE CATCH BASINS. WHEN EITHER OF THESE SITUATIONS ARE DISCOVERED UPON THE REQUIRED SEMI-ANNUAL INSPECTION, THEN THE STEPS STATED ABOVE SHALL BE IMPLEMENTED.

STORMWATER MAINTENANCE PLAN

(NHDOT ITEM NO.)

(4) D-02

SCALE: NONE

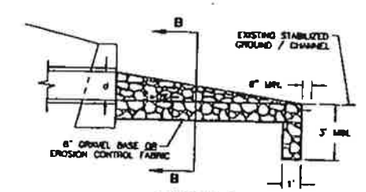


LEACHING TRENCH DETAIL

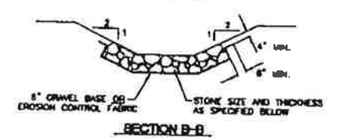
(NHDOT ITEM NO.)

(6) D-02

SCALE: NONE



SECTION A-A



SECTION B-B

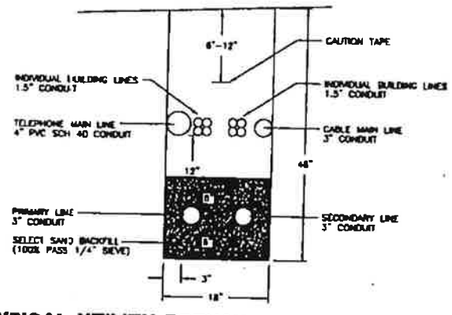
STRUCTURE/ LOCATION	DISCHARGE (T=10) Q	CULVERT DIAMETER D	APRON LENGTH L	APRON WIDTH W	STONE SIZE d	APRON THICKNESS T
	CFS	IN.	FT.	FT.	IN.	IN.
FES#1	5.8	12	24	13*	4	8
FES#3	3.4	15	16	10	4	8
FES#4	2.3	12	14	8	4	8
FES#7	0.1	15	9	10	4	8
MH#3	3.0	30	20	15	4	8
FES#9	3.0	15	15	10	4	8

*WHEN DISCHARGING TO DEFINED CHANNEL, DOWNSTREAM APRON WIDTH IS EQUAL TO CHANNEL WIDTH.

RIPRAP OUTLET PROTECTION

(7) D-02

MAR. 22, 1994
SCALE: NONE



TYPICAL UTILITY TRENCH

(10) D-02

JULY 20, 1998
SCALE: NONE

1. CATCH BASINS SHALL BE INSPECTED AFTER EVERY MAJOR STORM FOR POLLUTANT BUILD-UP, SAID POLLUTANTS CONSISTING OF SEDIMENTS, DEBRIS AND/OR FLOATING HYDROCARBONS.
2. IN THE ABSENCE OF A MAJOR STORM, THE SYSTEM MUST BE CHECKED AT LEAST TWICE A YEAR, IN THE SPRING AND FALL, FOR SEDIMENT, DEBRIS AND HYDROCARBON ACCUMULATION.
3. IF, UPON INSPECTION, A SIGNIFICANT AMOUNT OF POLLUTANTS HAVE ACCUMULATED IN ANY OF THE EXISTING OR PROPOSED CATCH BASINS, THEN THE POLLUTANTS MUST BE REMOVED AND DISPOSED OF PROPERLY, AND THE COMPLETE DRAINAGE SYSTEM HYDRO FLUSHED.
4. THE INFILTRATION BASINS AND LEACHING TRENCHES SHALL BE INSPECTED IN CONJUNCTION WITH THE CATCH BASINS. IN THE EVENT THAT SEDIMENT ACCUMULATION HAS OCCURED IN ANY EITHER OF THE TWO LEACHING TRENCHES, OR IN THE ISOLATED ROW OF DISTRIBUTION CHAMBERS, THEN SAID SEDIMENTS SHALL BE REMOVED PROMPTLY AND DISPOSED OF PROPERLY.
5. A SIGNIFICANT AMOUNT OF POLLUTANTS SHALL BE DEFINED AS A NOTICABLE SHEEN ON THE WATER SURFACE IN THE SUMP OF ANY OF THE CATCH BASINS AND/OR WHEN SEDIMENTS HAVE ACCUMULATED TO WITHIN 8 INCHES BELOW THE OUTLET OF ANY OF THE CATCH BASINS. WHEN EITHER OF THESE SITUATIONS ARE DISCOVERED UPON THE REQUIRED SEMI-ANNUAL INSPECTION, THEN THE STEPS STATED ABOVE SHALL BE IMPLEMENTED.

STORMWATER MAINTENANCE PLAN

(NHDOT ITEM NO.)

(11) D-02

SCALE: NONE

MERIDIAN
Land Services, Inc.
31 OLD NASHUA ROAD, UNIT 4
AMHERST, NH 03031
MAILING ADDRESS: PO BOX 720, AMHERST, NH 03031-0720
TEL 883-673-1441 FAX 883-673-1580 WWW.MERIDIANLAND.COM
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

NATHANIEL H. WEBB CRUMBAUGH No. 9641 LICENSED PROFESSIONAL ENGINEER STATE OF NEW HAMPSHIRE
6/12/03

REV.	DATE	DESCRIPTION	DR.
C	8-13-03	PER APB MEETING 08-04-03	JAK
B	4-23-03	PER PLANNING BOARD REVIEW	JAK
A	3-3-03	PER PLANNING BOARD REVIEW	GR

DETAILS
DRAINAGE

F.W. WEBB COMPANY

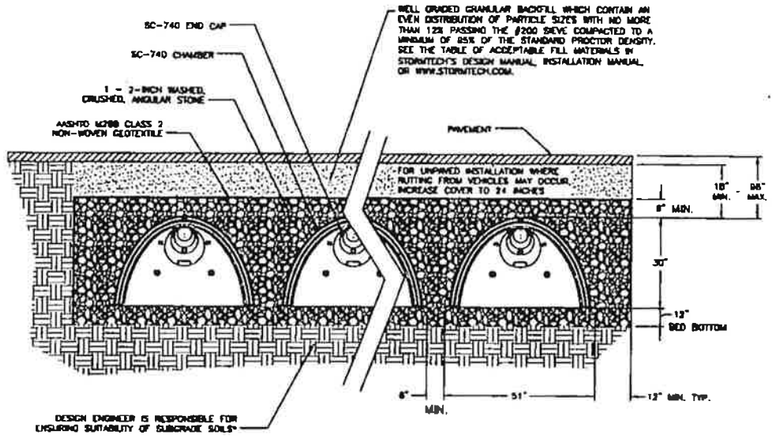
MAP 2 LOT 26-4
AMHERST, NEW HAMPSHIRE

DATE: MARCH 3, 2003

SCALE: 1" = AS NOTED

D-02
SHEET

FILE: 4780V00-20.dwg
PROJECT: 4780.02
SHEET NO.: 11 OF 17



STORMTECH SC-740 CHAMBER SYSTEM
TYPICAL CROSS SECTION (1 D-03)

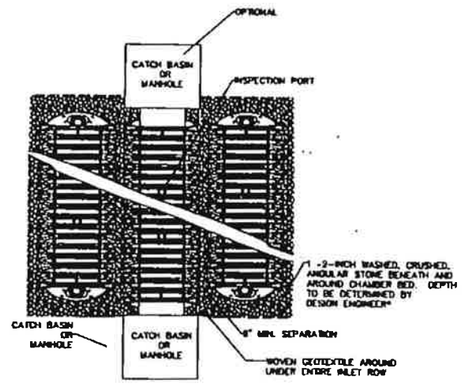
*SEE STORMTECH'S DESIGN MANUAL

JAN. 20, 2003
SCALE: NONE

CHAMBER SYSTEM	DIMENSIONS W x L (FT)	ROWS	UNITS/ROW	TOTAL UNITS	BOTTOM ELEVATION	PAVEMENT ELEVATION
CS- 1	23' x 75'	5	10	50	213.50	214.5
CS- 2	23' x 75'	5	10	50	208.0	210.0
CS- 3	45' x 120'	8	18	144	208.00	209.0

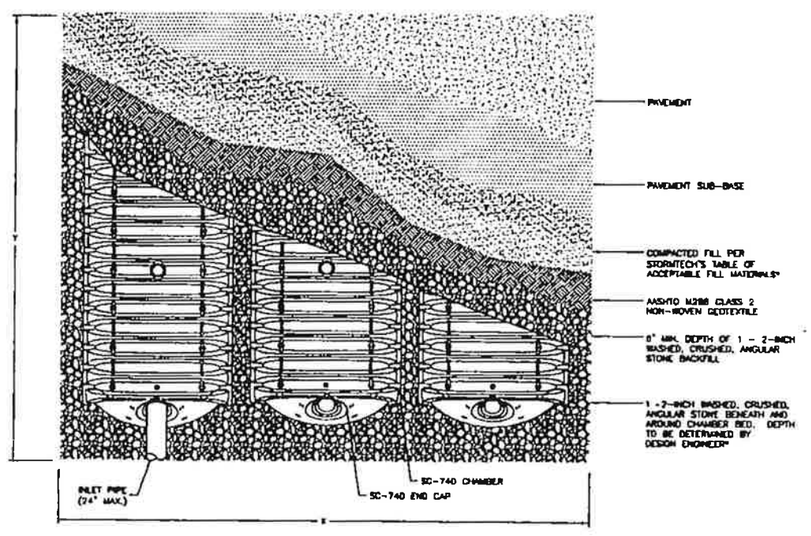
CHAMBER SYSTEM SUMMARY (4 D-03)

JAN. 20, 2003
SCALE: NONE



STORMTECH SC-740 CHAMBER SYSTEM
INLET CHAMBER ROW CLEANOUT (6 D-03)

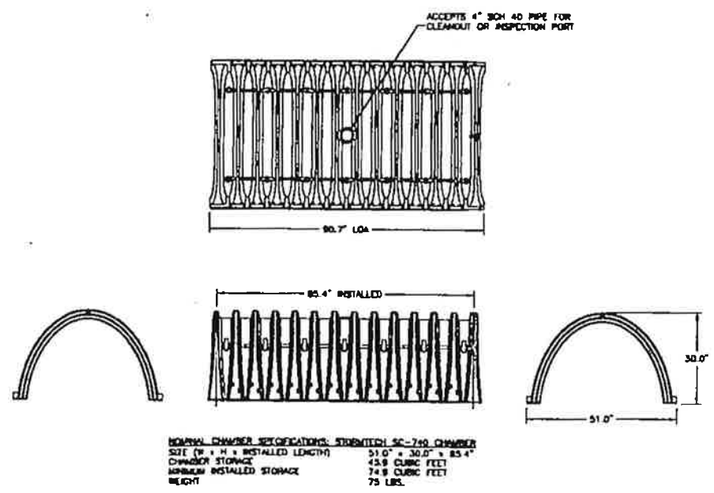
MARCH 14, 2003
SCALE: NONE



STORMTECH SC-740 CHAMBER SYSTEM
TYPICAL PLAN VIEW (2 D-03)

*SEE STORMTECH'S DESIGN MANUAL

JAN. 20, 2003
SCALE: NONE



NOMINAL CHAMBER SPECIFICATIONS: STORMTECH SC-740 CHAMBER

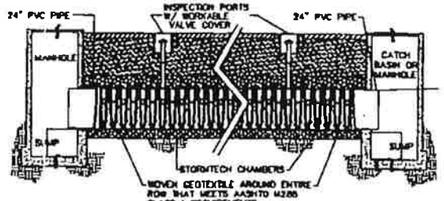
SIZE (W x H x INSTALLED LENGTH)	51.0" x 30.0" x 85.4"
CHAMBER STORAGE	45.9 CUBIC FEET
MINIMUM INSTALLED STORAGE	74.9 CUBIC FEET
WEIGHT	75 LBS.

STORMTECH SC-740 CHAMBER SYSTEM
NOMINAL CHAMBER SPECIFICATIONS (3 D-03)

*SEE STORMTECH'S DESIGN MANUAL

JAN. 20, 2003
SCALE: NONE

NOTE: INSPECTION PORTS SHALL BE EXTENDED TO FINISH GRADE AND TERMINATE AT A WORKABLE VALVE COVER OR SIMILAR APPURTENANCE.



STORMTECH SC-740 CHAMBER SYSTEM
INLET ROW HEADER SYSTEM (6 D-03)

MARCH 14, 2003
SCALE: NONE

MERIDIAN
Land Services, Inc.
31 OLD NASHUA ROAD, AMHERST, NH 03031
MAILING ADDRESS: PO BOX 118, MILFORD, NH 03055-0118
TEL 603-673-1441 FAX 603-672-1564 MERIDIANSURVEYORS@MYFAIRPOINT.NET
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

NATHAN E. CHAMBERLIN NH 9041 LICENSED PROFESSIONAL ENGINEER
6/12/03

REV.	DATE	DESCRIPTION	BY
D	6-12-03	PER APW MEETING 06-04-03	JEC
C	4-29-03	PER RPA REVIEW	DG
B	3-5-03	PER PLANNING BOARD REVIEW	JEC
A			DG

MAP 2, LOT 26-4
AMHERST, NEW HAMPSHIRE

DETAILS - DRAINAGE
INFILTRATION SYSTEM

F.W. WEBB COMPANY

DATE: MARCH 3, 2003
SCALE: 1" = NONE

D-03
SHEET

FILE: 4760VD0-30.dwg
PROJECT: 4760.00
SHEET NO.: 12 OF 17

H:\-mb\DWGS\4760.02\STEP\

NOTE: CONSTRUCTION SEQUENCING NOTES ARE COMPILED FROM STANDARD CONSTRUCTION NOTES. SOME NOTES MAY NOT APPLY DUE TO LIMITED TOP SOIL COVERAGE ON A PREVIOUSLY DISTURBED SITE.

1. INSTALL HAYBALE BARRIERS AND SILTATION CONTROL FENCES IN LOCATIONS SHOWN ON PLANS. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATION.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE(16).
3. CUT AND CLEAR TREES; DISPOSE OF DEBRIS. STUMPS ARE TO BE REMOVED OFF SITE.
4. REMOVE TOPSOIL AND STOCKPILE AWAY FROM ANY WETLAND. STABILIZE STOCKPILE IMMEDIATELY BY SEEDING. PLACE SILT FENCE AROUND THE DOWN SLOPE SIDE OF EARTH STOCKPILES.
5. ROUGH GRADE SITE - CONSTRUCT DETENTION BASIN AND GRASS TREATMENT SWALE DURING INITIAL PORTION OF CONSTRUCTION. STABILIZE IMMEDIATELY WITH LOAM AND SEED PER THE EROSION CONTROL NOTES. DO NOT DIRECT STORM WATER RUNOFF TO THESE STRUCTURES UNTIL A HEALTHY VEGETATIVE COVER IS ESTABLISHED.
6. CONSTRUCT ROAD, PARKING AREAS, AND BUILDING. ALL CUT AND FILL SLOPES SHALL BE STABILIZED UPON COMPLETION OF ROUGH GRADING PER THE THE EROSION CONTROL NOTES.
7. INSTALL DRAINAGE PIPES AND STRUCTURES; PLACE HAYBALES AROUND INLETS OF ALL STRUCTURES UNTIL ROAD AND PARKING AREAS ARE PAVED AND ALL NON-PAVED DISTURBED AREAS HAVE A HEALTHY VEGETATIVE COVER.
8. INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A DAILY BASIS AND AFTER ANY STORMS.
9. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, CULVERTS, DITCHES, SILTATION FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
10. FINISH GRADING TO PREPARE FOR PAVING AND LOAMING. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.
11. FINISH PAVING. PERMANENT SEEDING SHALL BE PERFORMED UPON COMPLETION OF DRIVE AND PARKING AREA PAVING (SEE EROSION CONTROL NOTES).
12. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
13. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED.

CONSTRUCTION SEQUENCE

1 D-04

FEB. 8, 2001
SCALE: NONE

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED:

1. INSTALLATION OF HAYBALE BARRIERS AND SILTATION FENCE WHERE INDICATED SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY GIVEN AREA.
2. HAYBALE BARRIERS AND SILTATION FENCES SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL DISTURBED AREAS HAVE A HEALTHY STAND OF VEGETATIVE COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY RAINFALL.
3. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
4. THE AREA OF LAND EXPOSED AND THE TIME OF EXPOSURE SHALL BE MINIMIZED. ALL NON-ACTIVE DISTURBED AREAS (ie: CLEARED FOR CONSTRUCTION BUT NOT PRESENTLY UNDERGOING CONSTRUCTION) SHALL BE STABILIZED WITHIN 25 DAYS OF DISTURBANCE. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.
5. ALL DITCHES, SWALES AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING STORM WATER FLOW TO THEM.
6. ALL DISTURBED AREAS SHALL BE COVERED WITH A MINIMUM OF 4" OF LOAM. LOAM SHALL BE COVERED WITH A SEED MIXTURE OR OTHER LANDSCAPE COVER (BARK MULCH, ETC.). THE SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3.30 POUNDS PER 1,000 SQ. FT. AND SHALL BE MIXED AS FOLLOWS:

TYPICAL LAWN SEED	
CREEPING RED FESCUE	.87 LBS.
KENTUCKY BLUEGRASS	.71 LBS.
RYE GRASS	.58 LBS.
RED TOP	.14 LBS.

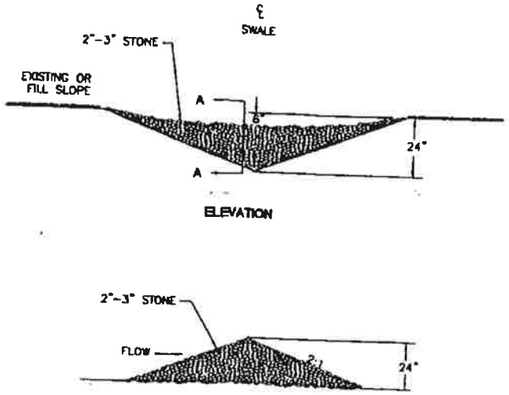
SLOPE SEED	
CREEPING RED FESCUE	1.01 LBS.
RYE GRASS	.75 LBS.
RED TOP	.18 LBS.
ALSIKE CLOVER	.18 LBS.
BIRDSFOOT TREFOIL	.18 LBS.

7. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF SEEDING. A MINIMUM OF 100 LBS. PER 1,000 S.F. OF AGRICULTURAL LIMESTONE AND 11.3 LBS. PER 1,000 S.F. OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH SECTION 7 OF "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL DESIGN HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE", USDA SCS, AUGUST 1992 ED.
8. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING THE WINTER MONTHS.

EROSION CONTROL

2 D-04

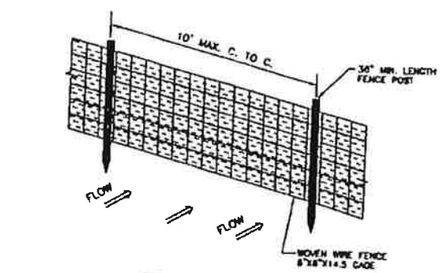
MAY 30, 2000
SCALE: NONE



CRUSHED STONE CHECK DAM

3 D-04

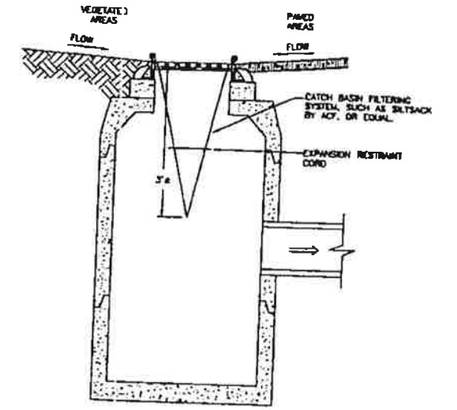
JUNE 18, 1998
SCALE: NONE



SILT FENCE

4 D-04

DEC. 22, 1993
SCALE: NONE

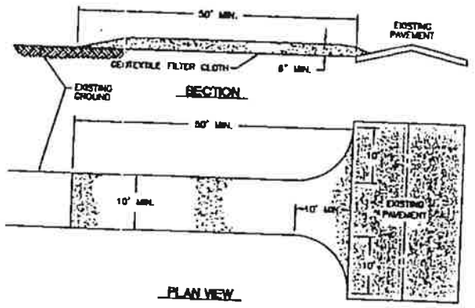


1. INSTALL AND MAINTAIN SACKS IN ALL CATCH BASINS.
2. TO INSTALL SACK: REMOVE CATCH BASIN GRATE AND PLACE SACK IN OPENING. HOLD OUT APPROXIMATELY SIX INCHES OF THE SACK OUTSIDE THE FRAME FOR THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE SACK IN PLACE.
3. THE SACK SHOULD BE INSPECTED AFTER EVERY STORM, OR ONCE EVERY TWO WEEKS, WHICH EVER OCCURS FIRST.
4. THE RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SACK SHOULD BE EMPTIED. EMPTY THE SACK AWAY FROM THE CATCH BASIN TO PREVENT SEDIMENT FROM RE-ENTERING THE CATCH BASIN. EMPTY THE SACK PER THE MANUFACTURES RECOMMENDATIONS.
5. REPLACE THE SACK IN THE CATCH BASIN AFTER THE SACK HAS BEEN EMPTIED. ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED BY PAVING OR A HEALTHY VEGETATIVE COVER, REMOVE THE SACK FROM THE CATCH BASINS.

CATCH BASIN SEDIMENT FILTER

5 D-04

NOV. 8, 2000
SCALE: NONE



NOTES:

1. STONE FOR STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1" TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET.
3. THE THICKNESS OF THE STONE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
8. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION ENTRANCE

6 D-04

DEC. 11, 1998
SCALE: NONE

MERIDIAN Land Services, Inc.
31 OLD NASHUA ROAD, AMHERST, NH 03031
MAILING ADDRESS: P.O. BOX 720, MILFORD, NH 03055-0118
TEL 603-673-1441 FAX 603-672-5841 MERIDIANLAND@MSN.COM
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

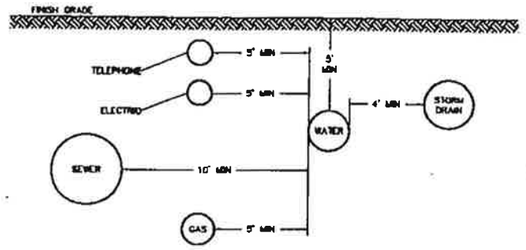
NATHAN A. CHAMBERLIN No. 8341 REVISED REGIONAL ENGINEERING 6/12/03

NO.	DATE	DESCRIPTION	BY	CK
		PER DRA REVIEW	DR	JKE
8	1-28-03	PER PLANNING BOARD REVIEW	DR	JKE
7	3-3-03	PER DRA REVIEW	DR	JKE

DETAIL PLAN
EROSION CONTROL
MAP 2 LOTS 26-4
AMHERST, NEW HAMPSHIRE
F.W. WEBB COMPANY
SCALE: 1" = AS NOTED
DATE: MARCH 3, 2003

D-04
SHEET

FILE: 4780V00-4C.dwg
PROJECT: 4780.02
SHEET NO.: 13 OF 17

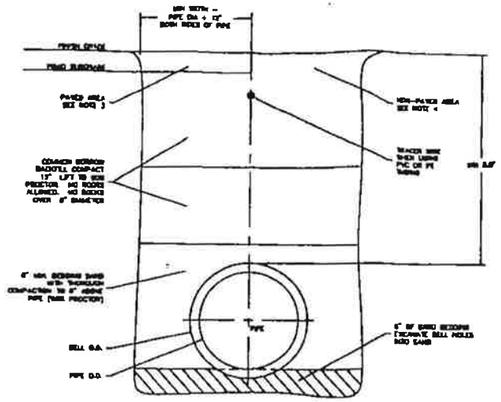


NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL WATER MAIN SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. SEE DETAIL A-2 FOR TRENCH DETAIL.
4. SEE DETAIL A-11 FOR OUTSIDE SERVICE ENTRANCE DETAIL.

TYPICAL UTILITY SEPARATION

1 D-05

DETAIL A-1
TYPICAL UTILITY SEPARATION DETAIL
PENNICHUCK WATER WORKS, INC.
REV: 2-98 SCALE: NTS

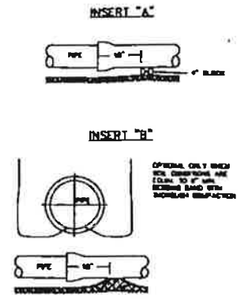


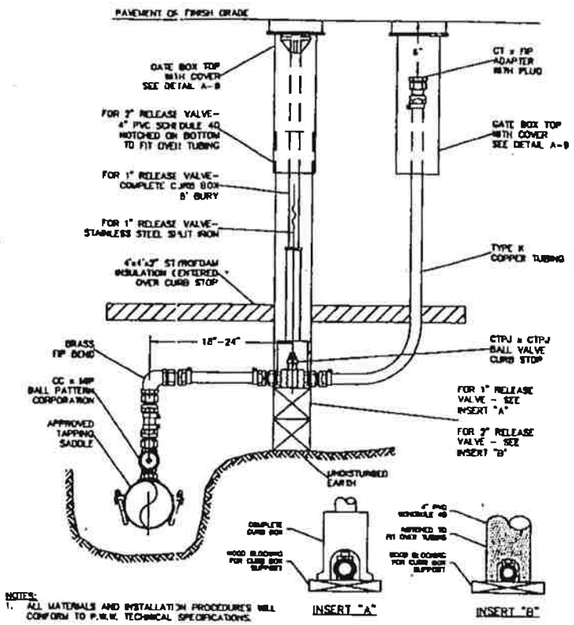
NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. REQUIREMENTS FOR SUBBASE AND BASE MATERIAL TYPE ARE TO BE IN ACCORDANCE WITH LOCAL AUTHORITY HAVING LOCAL JURISDICTION IN PAVED AREAS.
4. REQUIREMENTS FOR GRADE, LOAM AND/OR SEED ARE TO BE IN ACCORDANCE WITH LOCAL AUTHORITY HAVING LOCAL JURISDICTION IN NON-PAVED AREAS.

TYPICAL TRENCH

3 D-05

DETAIL A-2
TYPICAL TRENCH DETAIL
PENNICHUCK WATER WORKS, INC.
REV: 3-97 SCALE: NTS



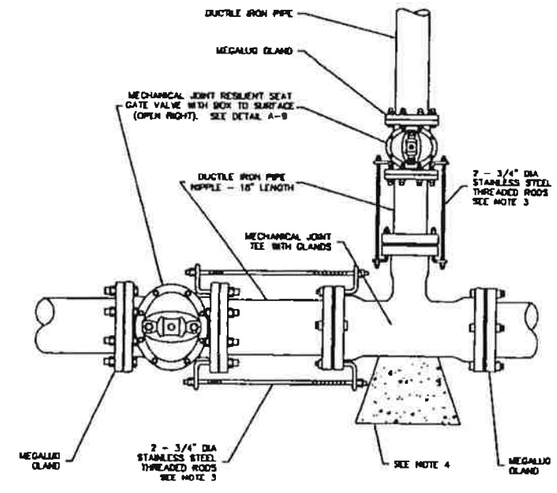


NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. IF TAPPING SADDLE IS 1", SEE DETAIL A-3 FOR SIZE OF FITTINGS AND APPROPRIATE GATE BOX TYPE.
3. IF TAPPING SADDLE IS 2", SEE DETAIL A-4 FOR SIZE OF FITTINGS AND APPROPRIATE GATE BOX TYPE
4. SEE DETAILS A-3 AND A-4 FOR INSTALLATION ON DUCTILE IRON WATER MAINS.

TYPICAL RELEASE VALVE

3 D-05

DETAIL A-3
TYPICAL RELEASE VALVE INSTALLATION ON PVC
PENNICHUCK WATER WORKS, INC.
REV: 2-98 SCALE: NTS

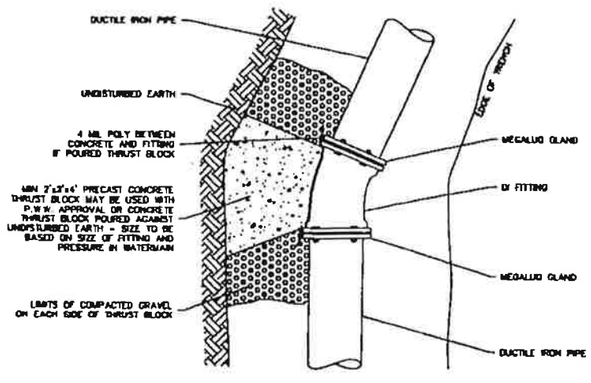


NOTES:
1. ALL MATERIAL AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. ALL THREADED RODS AND NUTS MUST BE STAINLESS STEEL.
4. MIN 3'x3'x4' PRECAST CONCRETE THRUST BLOCK MAY BE USED WITH P.W.W. APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH - SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATERMAIN. SEE DETAIL A-7.

TYPICAL TEE INSTALLATION

4 D-05

DETAIL A-6
TYPICAL TEE INSTALLATION
PENNICHUCK WATER WORKS, INC.
REV: 3-97 SCALE: NTS

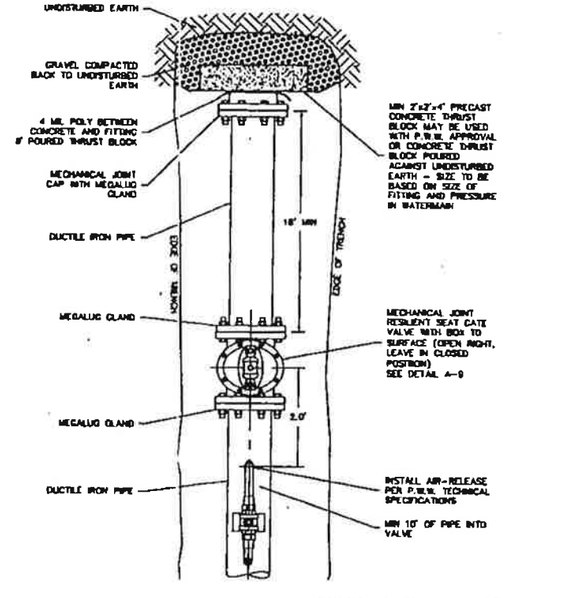


NOTES:
1. ALL MATERIAL AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.

TYPICAL THRUST BLOCK INSTALLATION

5 D-05

DETAIL A-7
TYPICAL THRUST BLOCK BEHIND FITTING INSTALLATION
PENNICHUCK WATER WORKS, INC.
REV: 3-97 SCALE: NTS



NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.

TYPICAL END OF MAIN

6 D-05

DETAIL A-8
TYPICAL END OF MAIN INSTALLATION
PENNICHUCK WATER WORKS, INC.
REV: 3-97 SCALE: NTS

MERIDIAN
Land Services, Inc.
31 OLD NASHUA ROAD, AMHERST, NH 03031
MAILING ADDRESS: PO BOX 118, MILFORD, NH 03055-0118
TEL 603-673-3441 FAX 603-673-1344 EMAIL@MERIDIANLAND.COM
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

NATHAN A. CHAMBERLIN 603 8041 LICENSED PROFESSIONAL ENGINEER STATE OF NEW HAMPSHIRE
6/12/03

REV.	DATE	DESCRIPTION	DR.	CK.
A	3-3-03	PER PLANNING BOARD REVIEW		

DETAILS
WATER SYSTEM

MAP 2 LOT 26-4
AMHERST, NEW HAMPSHIRE

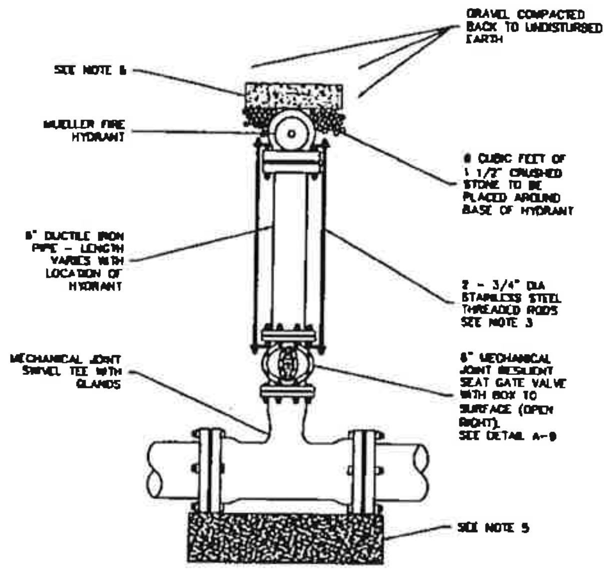
F.W. WEBB COMPANY

SCALE: 1" = NONE - - DATE: MARCH 3, 2003

D-05
SHEET

FILE: 4760W00-58.dwg
PROJECT: 4760.02
SHEET NO.: 14 OF 17

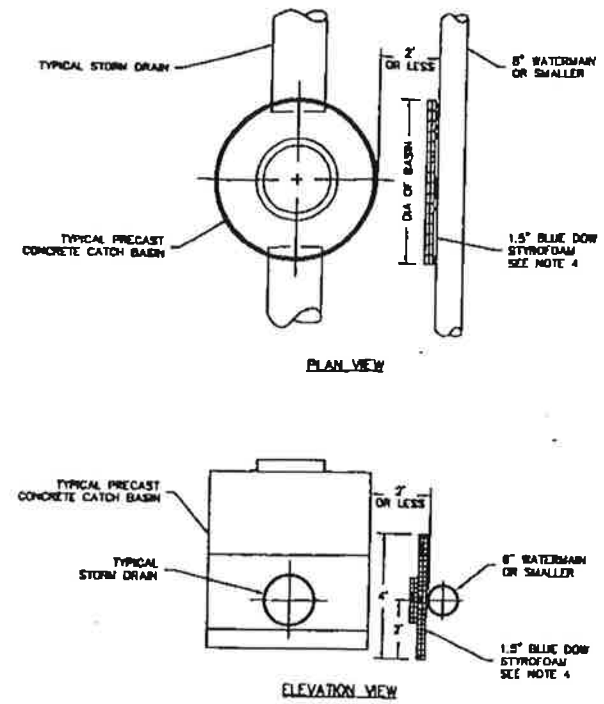
H:\mas\04760\4760.02\SITE\



NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. ALL THREADED RODS AND NUTS MUST BE STAINLESS STEEL.
4. WHEN DISTANCE FROM WATERMAIN TO HYDRANT IS MORE THAN 10', SUBSTITUTE MEGALUGS IN LIEU OF THREADED ROD OR GRIP RINGS.
5. MIN 2'x2'x4' PRECAST CONCRETE THRUST BLOCK MAY BE USED WITH P.W.W. APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH – SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATERMAIN. SEE DETAIL A-7.

TYPICAL HYDRANT (1 / D-06)

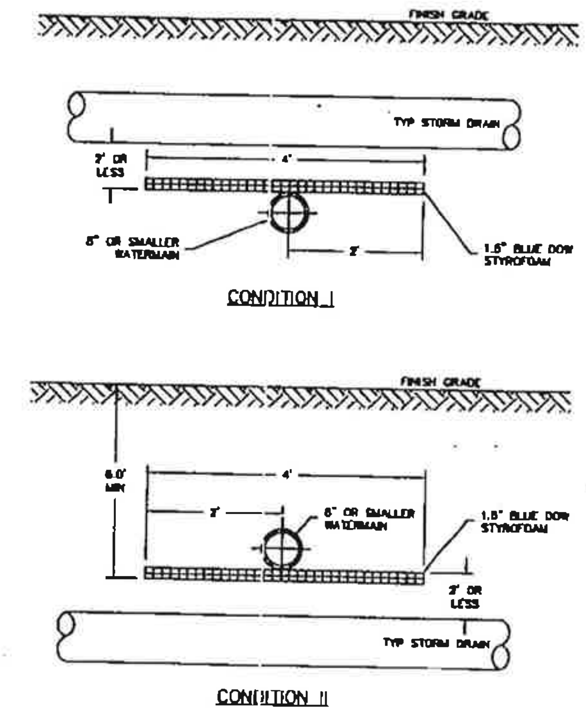
DETAIL A-10
TYPICAL HYDRANT INSTALLATION
PENNICHUCK WATER WORKS, INC.
REV: 3-97 SCALE: NTS



NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. P.W.W., INC. RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.
4. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH 1' PIECE OF INSULATION CENTERED OVER SEAM.

TYPICAL CATCH BASIN INSULATION DETAIL (2 / D-06)

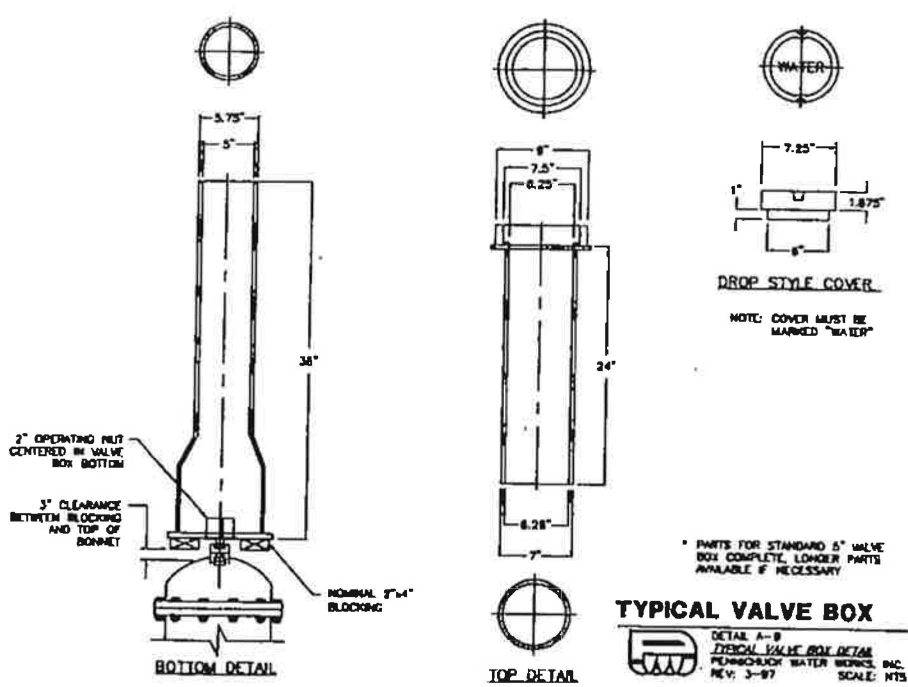
DETAIL A-16
TYPICAL CATCH BASIN INSULATION DETAIL
PENNICHUCK WATER WORKS, INC.
REV: 3-97 SCALE: NTS



NOTES:
1. PENNICHUCK WATER WORKS, INC. RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.
2. THE LENGTH OR WIDTH OF INSULATION SHALL EXTEND 1 STORM DRAIN PIPE DIAMETER BEYOND THE EDGE OF STORM DRAIN PIPE IN EACH DIRECTION OR A MINIMUM OF 2' BEYOND THE CENTERLINE OF THE STORM DRAIN PIPE, WHICHEVER IS GREATER.
3. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH A 1' PIECE OF INSULATION CENTERED OVER SEAM.

STORM DRAIN/WATERMAIN INTERSECTING RUNS (3 / D-06)

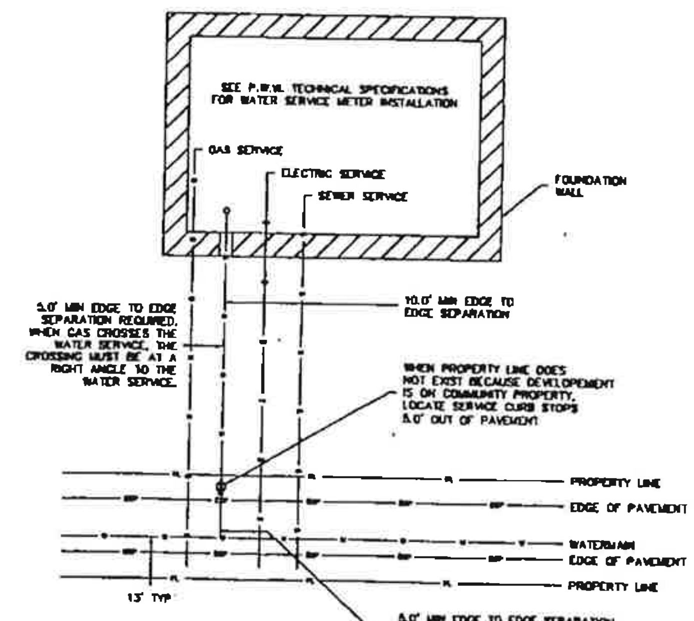
DETAIL A-18
STORM DRAIN / WATERMAIN INTERSECTING RUNS – ELEV. VIEW
PENNICHUCK WATER WORKS, INC.
REV: 3-97 SCALE: NTS



* PARTS FOR STANDARD 5" VALVE BOX COMPLETE, LONGER PARTS AVAILABLE IF NECESSARY

TYPICAL VALVE BOX (4 / D-06)

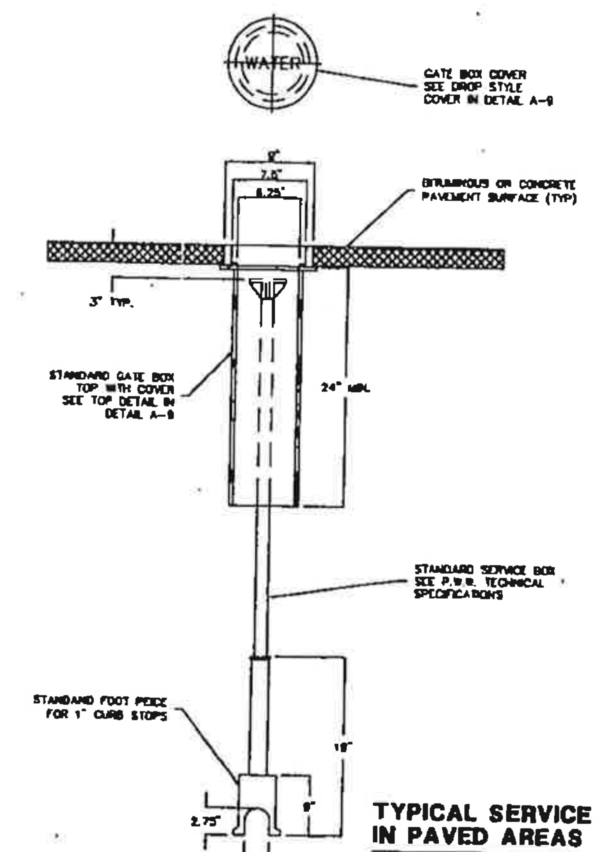
DETAIL A-9
TYPICAL VALVE BOX DETAIL
PENNICHUCK WATER WORKS, INC.
REV: 3-97 SCALE: NTS



NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. SERVICE ENTRANCE SHALL BE MADE IN THE FRONT OR SIDE OF BUILDING.
4. SERVICE ENTRANCE MADE IN REAR OF HOUSE WILL NOT BE ACCEPTED UNLESS PREVIOUSLY APPROVED BY P.W.W.
5. SERVICE ENTRANCE LOCATION WILL BE DETERMINED BY THE P.W.W. REPRESENTATIVE ON SITE.
6. IF SERVICE IS TAPPED OFF A FIRE SERVICE, THEN SEE DETAIL A-24.

OUTSIDE SERVICE ENTRANCE (5 / D-06)

DETAIL A-11
OUTSIDE SERVICE ENTRANCE
PENNICHUCK WATER WORKS, INC.
REV: 3-97 SCALE: NTS



NOTE:
ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.

TYPICAL SERVICE BOX IN PAVED AREAS (6 / D-06)

DETAIL A-13
TYPICAL SERVICE BOX DETAIL IN PAVED AREAS
PENNICHUCK WATER WORKS, INC.
REV: 3-98 SCALE: NTS

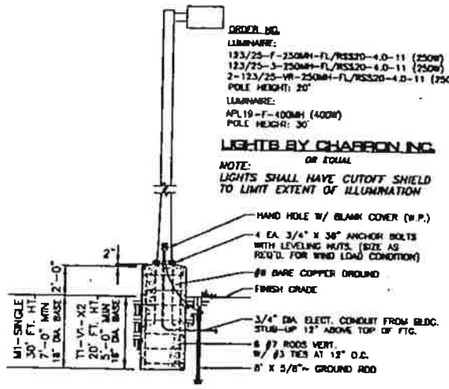
MERIDIAN Land Services, Inc.
31 OLD NASHUA ROAD, AMHERST, NH 03031
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

NATHAN R. CHAMBERLIN No. 8641 LICENSED PROFESSIONAL ENGINEER, STATE OF NEW HAMPSHIRE
6/12/03

REV.	DATE	DESCRIPTION	DR	CK
A	3-5-03	PER PLANNING BOARD REVIEW	GO	JPE

DETAILS
WATER SYSTEM
MAP 2 LOTS 26-4
AMHERST, NEW HAMPSHIRE
F.W. WEBB COMPANY
DATE: MARCH 3, 2003
SCALE: 1" = NONE

D-06
SHEET
FILE: 4780\00-58.dwg
PROJECT: 4780.02
SHEET NO.: 15 OF 17



LIGHTING

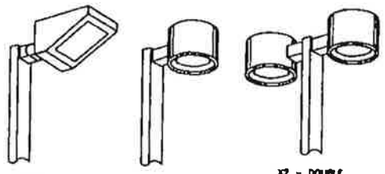
1 D-07

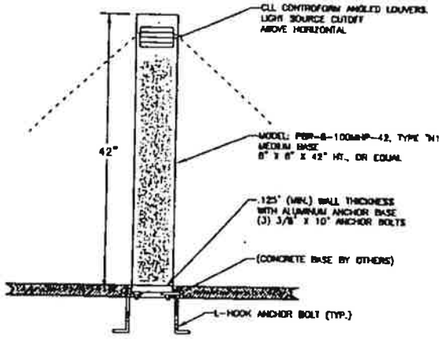
OCT. 17, 1995
SCALE: NONE

20" DIA. (TYP.)

M1 - SINGLE - 30 FT. MOUNTING HEIGHT (400W) - METAL HALIDE
T1, V1 - SINGLE - 20 FT. MOUNTING HEIGHT (250W) - METAL HALIDE
X2 - DOUBLE - 20 FT. MOUNTING HEIGHT (250W) - METAL HALIDE

POLE CONFIGURATION

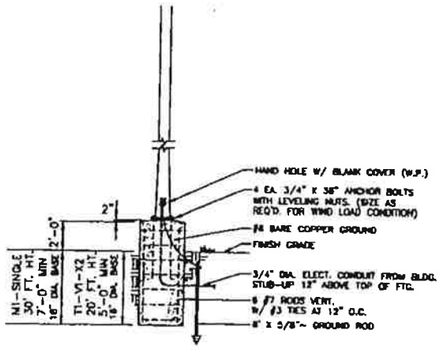




LIGHTED BOLLARD DETAIL

4 D-07

FEB. 24, 1995
SCALE: NONE

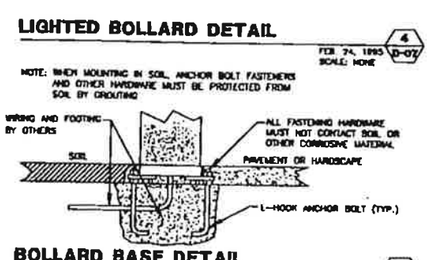


SITE LIGHTING

(FIXTURES-POLES-FTG'S.)

2 D-07

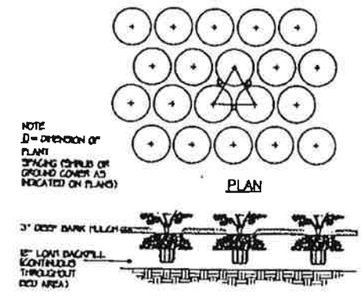
SCALE: NONE



BOLLARD BASE DETAIL

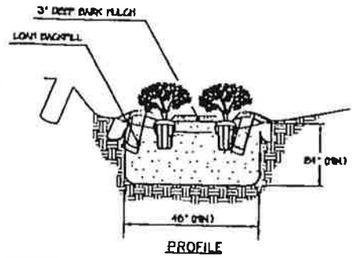
5 D-07

FEB. 24, 1995
SCALE: NONE



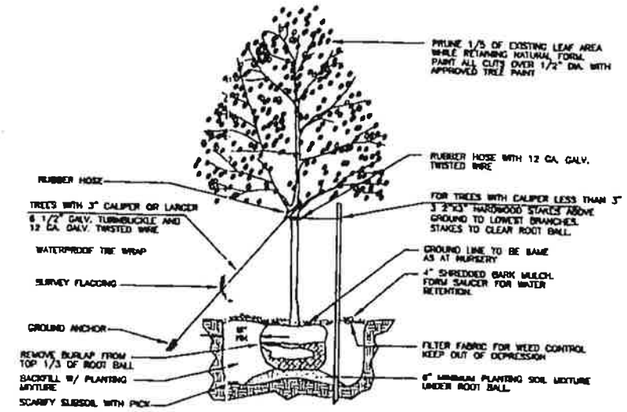
BED PLANT SPACING GROUNDCOVER PLANTING

7 D-07



NARROW TRENCH PLANTING

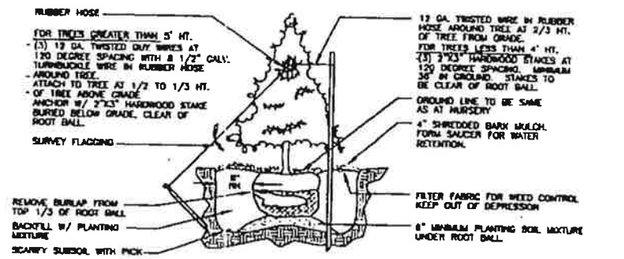
8 D-07



TREE PLANTING

9 D-07

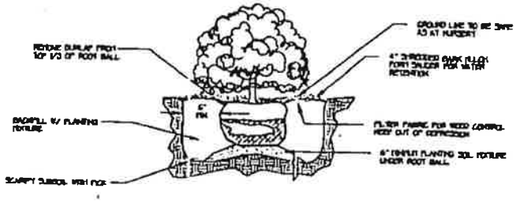
NOT TO SCALE



EVERGREEN TREE PLANTING

10 D-07

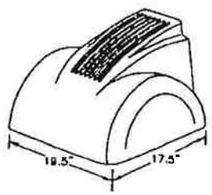
NOT TO SCALE



SHRUB PLANTING

11 D-07

NOT TO SCALE



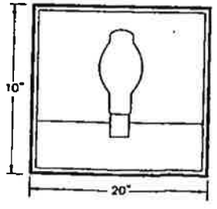
McGRAW EDISON - WALL MOUNT "TYPE G1"
MODEL: VRM-250MH-MT-45/MTD
AT 30' AFG
250W METAL HALIDE

AS SUPPLIED BY:
CHARRON INCORPORATED
PO BOX 4550
MANCHESTER, NH 03108
603-834-4827
USE SPECIFIED OR APPROVED EQUAL

LIGHTING FIXTURE

MARCH 14, 2003
SCALE: NONE

3 D-07



LUMARK (COMMERCIAL) - "TYPE H"
MODEL: MAXL-175MT
175W METAL HALIDE

LUMARK FIXTURE

MARCH 14, 2003
SCALE: NONE

6 D-07

PLANTING NOTES:

- ALL PLANT MATERIAL
  SHALL BE GUARANTEED TO REMAIN ALIVE AND HEALTHY FOR ONE FULL CALENDAR YEAR FROM TIME OF PROVISIONAL ACCEPTANCE.
- BARK MULCHING
  USED SHREDDED PINE BARK; FREE OF STICKS, DIRT, DUST AND DEBRIS, IN ALL THE PLANTING BED AREAS AND AROUND TREES. A DEPTH OF (4) INCHES THICK SHALL BE PLACED ON THE FINISH GRADE OF ALL PLANTS UNLESS OTHERWISE SPECIFIED.
- TREE STAKING
  REMOVE STAKES AFTER ONE GROWING SEASON.
- TREE WRAPPING
  USE AS APPROPRIATE. CHECK THE WRAP FREQUENTLY AND REMOVE DURING PERIODS ACTIVE GROWTH.
- TOPSOIL MIX
  THE BACK FILL MIX SHALL BE COMPOSED OF 95% SCREENED LOAM AND 5% CANADIAN SPHAGNUM PEAT MOSS OR EQUAL. NO FERTILIZER IS REQUIRED IN THE TOPSOIL MIX.
- LAWN SEED AREAS
  FIRST, ROUGH GRADE AREA AS REQUIRED. THEN INSTALL (6) INCHES OF SCREENED LOAM IN THE LAWN AREAS. FINE GRADE LOAM TO AN EVEN SURFACE. SEED AREA NEAR BUILDING THAT IS IRRIGATED WITH A "CLASSIC SUNNY TURF MIX" BY LESCO INC. (803-847-4138) OR EQUAL. SEED AREA AWAY FROM BUILDING THAT IS NOT IRRIGATED WITH "PARK AND ATHLETIC MIX" BY LESCO INC. OR EQUAL. LIME AREA AT A RATE OF 50 LBS. PER 1000 SQ.FT. USE A STARTER FERTILIZER AND APPLY AS RECOMMENDED BY SUPPLIER. FOR EROSION CONTROL WHERE NECESSARY, USE CLEAN STRAW MULCH OR OTHER APPROVED MATERIALS.
- SLOPE SEED AREAS (TYPE 44)

	MIN. PURITY	MIN. GERMINATION	KILOGRAMS/HECTARE (LBS./AC.)
CREEPING RED FESCUE	98%	85%	40 (35)
PERENNIAL RYEGRASS	98%	90%	35 (30)
REDTOP	95%	80%	5 (5)
ALSIKE CLOVER	97%	80(+)%	5 (5)
BIRDSFOOT TREFOIL	98%	80(+)%	5 (5)
			TOTAL 80 (80)

- NATIVE GRASS SEED MIX
  FIRST, ROUGH GRADE AREA AS REQUIRED. THEN INSTALL (4) INCHES OF SCREENED LOAM IN THESE AREAS. SEED AREA WITH "FINE FESCUE LAWNS BLEND" AND USE AS RECOMMENDED BY THE SUPPLIER, LESCO INC. (803-847-4138) OR EQUAL. LIME AT A RATE OF 50 LBS. PER 1000 SQ.FT. APPLY A STARTER FERTILIZER AS RECOMMENDED BY SUPPLIER. USE EROSION CONTROL NETTING AND CLEAN STRAW MULCH TO HOLD MATERIAL IN PLACE DURING GERMINATION.
- PRUNING AND REPAIR
  ALL PLANTS SHALL BE NEATLY PRUNED AND/OR CLIPPED TO PRESERVE A NATURAL CHARACTER OF THE PLANTS. BROKEN OR BADLY BRUISED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT BY A SHARP TOOL. ALL ACCIDENTAL DAMAGE TO TREES OR SHRUBS OCCURRING DURING PLANTING, WHICH IS NOT SO GREAT AS TO NECESSITATE REMOVAL OF THE BRANCH OR REPLACEMENT OF THE PLANT, SHALL BE PROPERLY TREATED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE.
- WATERING
  THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING. MAINTAIN WATERING ON A REGULAR BASIS UNTIL PLANTS HAVE TAKEN (2-3 MONTHS).
- SAFETY
  CONTACT DIG SAFE PRIOR TO LANDSCAPE CONSTRUCTION. PROTECT ALL UTILITIES DURING EXCAVATION BUT IF DAMAGED, REPAIR AT NO EXTRA COST TO THE OWNER. KEEP ALL THE WORK AREA CLEAN, NEAT AND ORDERLY AT ALL TIMES.
- STANDARDS
  ALL PLANT MATERIALS USED SHALL BE TRUE TO NAME, QUALITY AND SIZE IN CONFORMITY WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK", BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- DAMAGES
  THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE TO THE PROPERTY THAT RESULTS FROM HIS/HER NEGLIGENCE AT NO ADDITIONAL COST TO THE OWNER.

MERIDIAN
Land Services, Inc.
31 OLD NASHUA ROAD, AMHERST, NH 03031
MAILING ADDRESS: PO BOX 718, MILFORD, NH 03055-0718
TEL 603-673-1441 FAX 673-1364 MERIDIANLAND@COMCAST.NET
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

NEW HAMPSHIRE
MATTHEW L. CHAMBERLIN
NO. 9641
CERTIFIED
PROFESSIONAL ENGINEER
6/12/03

REV.	DATE	DESCRIPTION
A	3-5-03	PER PLANNING BOARD REVIEW
B	4-25-03	PER IDRA REVIEW
		JPC
		JPC
		CTK

LANDSCAPE LIGHTING DETAILS

F.W. WEBB COMPANY

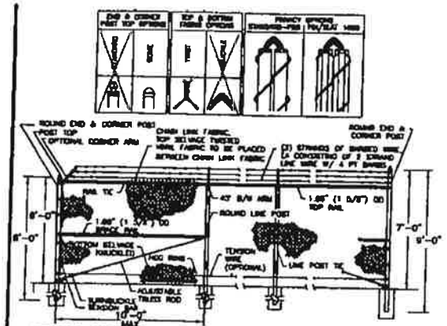
MAP 2 LOT 26-4
AMHERST, NEW HAMPSHIRE

DATE: MARCH 3, 2003

SCALE: AS SHOWN

D-07
SHEET

FILE: 4780V00-7C.dwg
PROJECT: 4780.00
SHEET NO.: 16 OF 17



FENCE SECTION ELEVATION - ROUND END POSTS

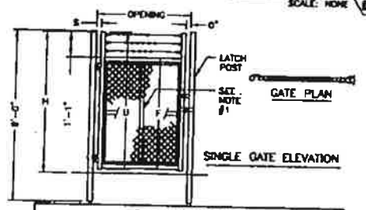
NOTES:

1. SPECIFICATIONS SHOWN ARE FROM MASTER-HALCO.

ELEVATION - TYPICAL 6' HIGH FENCE WITH BARBED WIRE

1 / D-08

SCALE: NONE



SINGLE LEAF GATES		
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	RHD SIZES	POST TO UPRIGHT
3'-0" THROUGH 8'-0"	2.875" OD	ROUND GATE POSTS: 2 1/4"

SINGLE LEAF GATES		
NOM HEIGHT (H)	UPRIGHT HT (U)	FRAME HT (F)
NOM HT INCLUDING BARBED WIRE	ACTUAL DIM	ACTUAL DIM
7'-0"	6'-10"	5'-8 1/2"

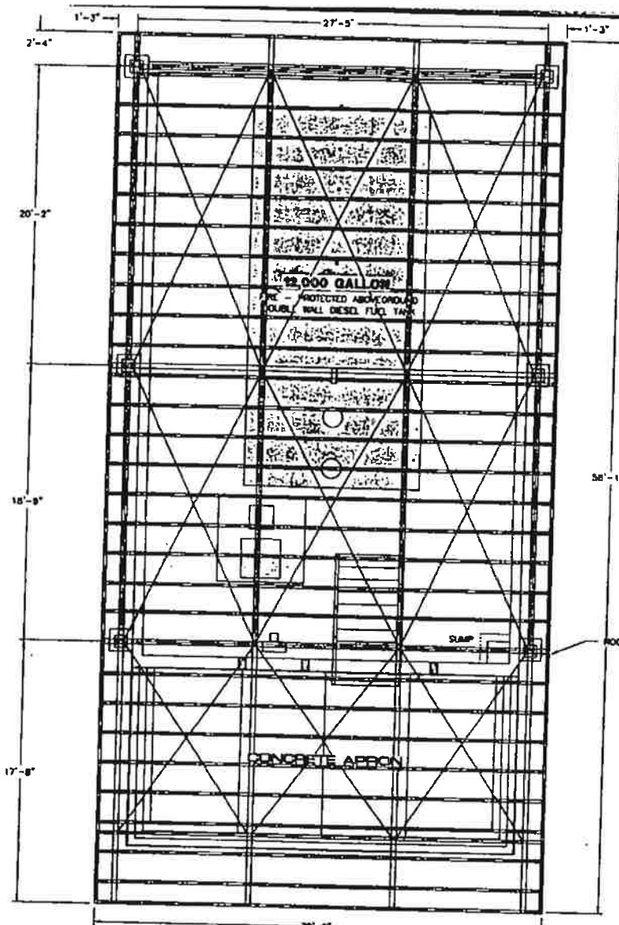
NOTES:

1. SPECIFICATIONS SHOWN ARE FROM MASTER-HALCO.
2. CENTER UPRIGHT REQUIRED ON GATE LEAVES 8'-0" & WIDER. CENTER RAIL REQUIRED ON GATE LEAVES 10'-0" & HIGHER.

ELEVATION - TYPICAL SWING GATES WITH BARBED WIRE

2 / D-08

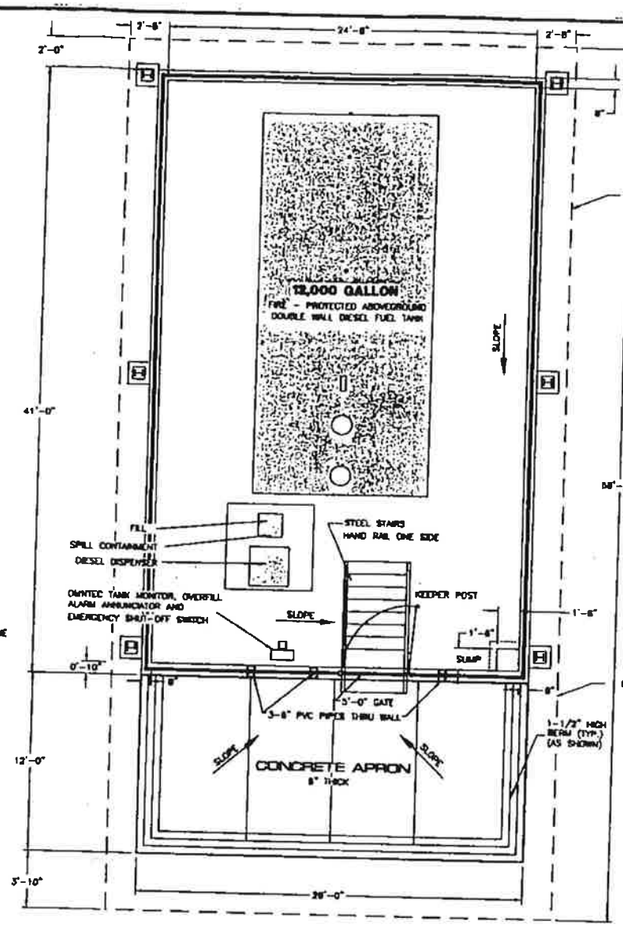
SCALE: NONE



PLAN VIEW - ROOF DETAIL - FUEL STORAGE SHED

3 / D-08

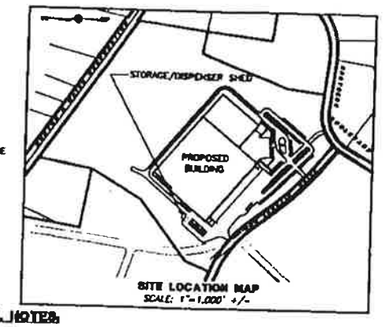
SCALE: NONE



PLAN VIEW - FUEL STORAGE SHED

4 / D-08

SCALE: NONE



GENERAL NOTES:

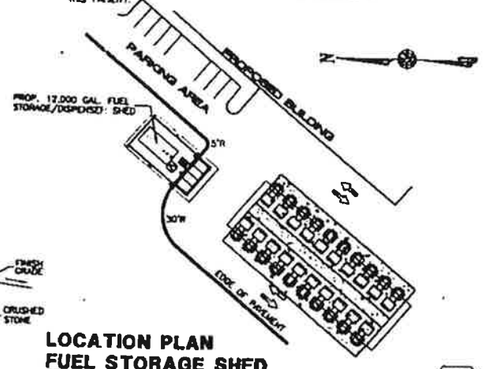
1. ALL CEMENT CONCRETE TO BE 4000 PSI AT 28 DAYS (MINIMUM CLASS A).
2. ALL REINFORCEMENT SHALL BE GRADE 60 DEFORMED BARS AND SHALL BE PLACED IN ACCORDANCE WITH ACI 318.
3. ALL CONSTRUCTION JOINTS SHALL HAVE THERMOPLASTIC ELASTOMERIC RUBBER WATERSTOP.
4. NO OPENINGS SHALL BE MADE WITHIN THE SECONDARY CONTAINMENT WALL EXCEPT AS NOTED ON THESE DRAWINGS FOR CONCRETE APRON DRAINAGE.
5. ALL ELECTRICAL EQUIPMENT AND CONNECTIONS SHALL MEET NATIONAL ELECTRICAL CODE FOR CLASS I REQUIREMENTS.
6. THE ROOF SYSTEM SHALL ALLOW FOR FREE VENTILATION OF ANY CONFINED GASES WHICH MAY BE TRAPPED.
7. FIRE EXTINGUISHER READILY AVAILABLE PER AMHERST FIRE DEPARTMENT APPROVAL.
8. SIGNS SHALL BE ERECTED THAT INSTRUCTS ALL PERSONNEL
   A) "TO REPORT ANY LEAKS OR SPILLS NO MATTER HOW SMALL, IMMEDIATELY."
   B) "NO UNATTENDED DISPENSING OR DELIVERY OF FUEL ARE TO OCCUR."

SPILL PREVENTION FEATURES REQUIRED BY NEW HAMPSHIRE DES:

1. UL-142 STEEL TANK AND SADDLES
2. THE SYSTEM SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER
3. OVERFLOW ALARM WITH AUDIBLE AND VISIBLE ALARM
4. INSTALL A SEPERATE MECHANICAL INVENTORY GAUGE
5. SECONDARY CONTAINMENT SHALL BE A DOUBLE WALL TANK
6. INSTALL A ANTI-SIPHON VALVE
7. FINAL INSPECTION OF THE SYSTEM BY NHDES
8. A SPILL PREVENTION COUNTERMEASURE AND CONTROL PLAN MUST BE PREPARED BY A PROFESSIONAL ENGINEER, AND BE IMPLEMENTED BY THE FACILITY MANAGER. THIS PLAN INCLUDES EMPLOYEE TRAINING, SPILL CONTROL METHODS, SPILL CONTROL MATERIALS AND REGULAR EQUIPMENT INSPECTIONS.

ADDITIONAL SPILL PREVENTION FEATURES PROPOSED FOR TANKS INSTALLED IN ENVIRONMENTALLY SENSITIVER AREAS:

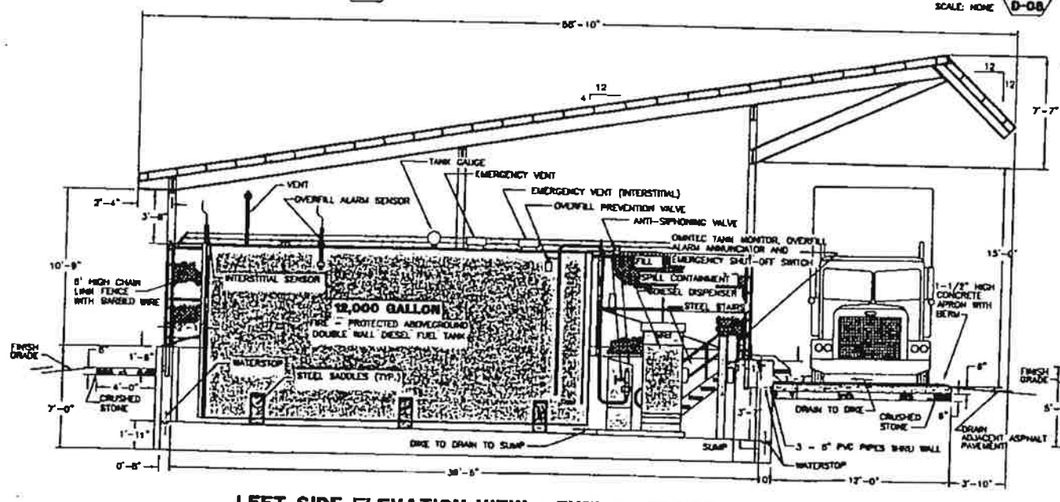
1. THE INSTALLATION OF A CONCRETE TERTIARY CONTAINMENT DIKE. CONCRETE DIKE TO HANDLE A SPILL OF 110% OF THE TANK VOLUME.
2. THE ADDITION OF AN ELECTRONIC TANK INTERSTITIAL LEAK DETECTION SYSTEM.
3. THE ADDITION OF A MECHANICAL OVERFILL PREVENTION VALVE.
4. A SPILL CONTAINER FOR THE FILL.
5. THE CONSTRUCTION OF A CONCRETE FUELING PAD DESIGNED TO DIRECT ANY SPILLS IN THE FUELING AREA TO THE CONCRETE CONTAINMENT DIKE. THIS WILL ALLOW THE CONTAINMENT OF A SPILL FROM THE LARGEST COMPARTMENT OF ANY TANKER VISITING THE FACILITY.
6. FUEL SALES TO THE GENERAL PUBLIC WILL NOT BE PERMITTED AT THIS FACILITY.



LOCATION PLAN FUEL STORAGE SHED

7 / D-08

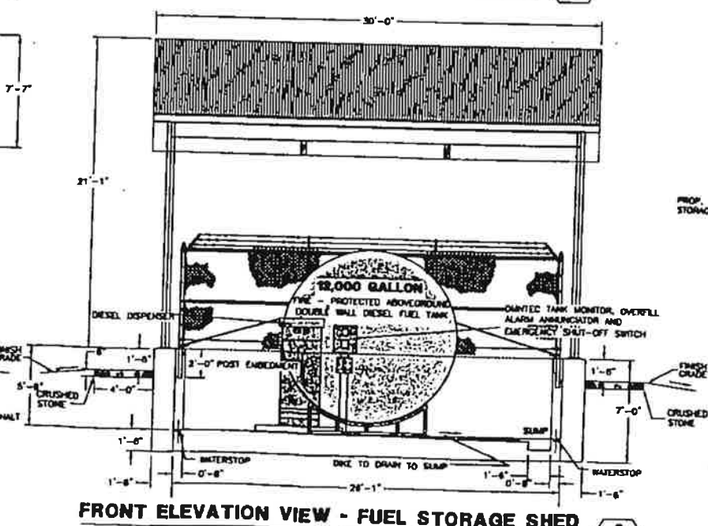
SCALE: 1"= 50'



LEFT SIDE ELEVATION VIEW - FUEL STORAGE SHED

5 / D-08

SCALE: NONE



FRONT ELEVATION VIEW - FUEL STORAGE SHED

6 / D-08

SCALE: NONE

MERIDIAN
Land Services, Inc.
31 OLD NASHUA ROAD, AMHERST, NH 03031
MAILING ADDRESS: PO BOX 118, MILFORD, NH 03055-0118
TEL 603-673-1441 FAX 603-673-1564
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

GERARD J. DAGHER No. 6548

REV.	DATE	DESCRIPTION	DR
A	3/03/03	ISSUED CONCEPT	GJD
B	3/13/03	PER PLANNING BOARD REVIEW	GJD
C	4/23/03	PER PERMACULT REVIEW	JAE
D	5/28/03	CHANGES PER PO	GJD
E	6/13/03	PER APB MEETING 06-04-03	GJD

FUELING STATION
FUEL STORAGE

2-26-4 F.W. WEBB
AMHERST, NEW HAMPSHIRE

F. W. WEBB COMPANY

DATE: MARCH 3, 2003

SCALE: 1" = 5' HORIZ. / 1" = 5' VERT.

D-08
SHEET

FILE	4780210C
PROJECT	4780.02
SHEET NO.	17 OF 17