DOG DAYCARE FACILITY

FOR

GREAT BAY KENNEL

27 & 35 NEWMARKET ROAD **DURHAM, NH TAX MAP 6, LOT 11-7**

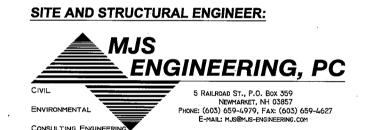
> FEBRUARY 20, 2012 REVISED SEPTEMBER 19, 2012

LOT LINE ADJUSTMENT PLAN (MSA, INC.) **REVISED SITE PLAN CONSTRUCTION DETAILS** D1 **CONSTRUCTION DETAILS ARCHITECTURAL PLANS:** SHEET:

CIVIL PLANS:

FLOOR PLAN **BUILDING SECTIONS ELEVATIONS ELEVATIONS**

SHEET:

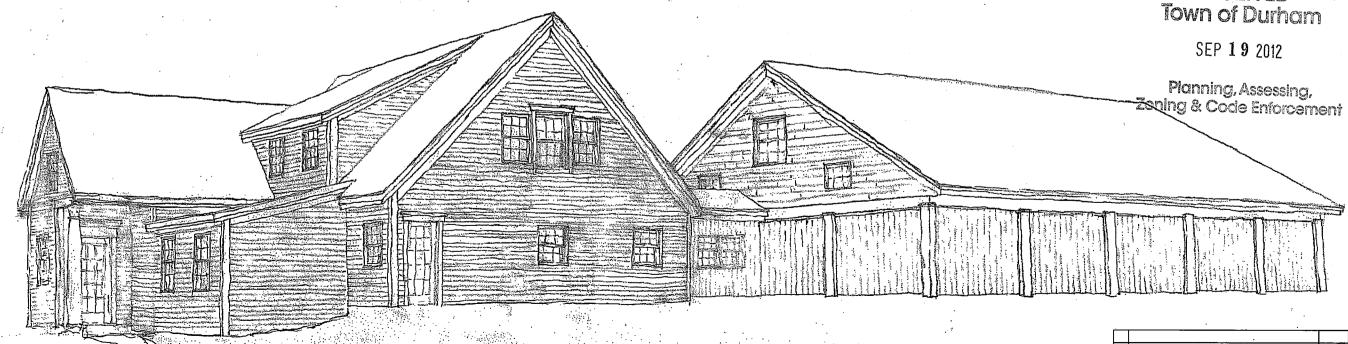


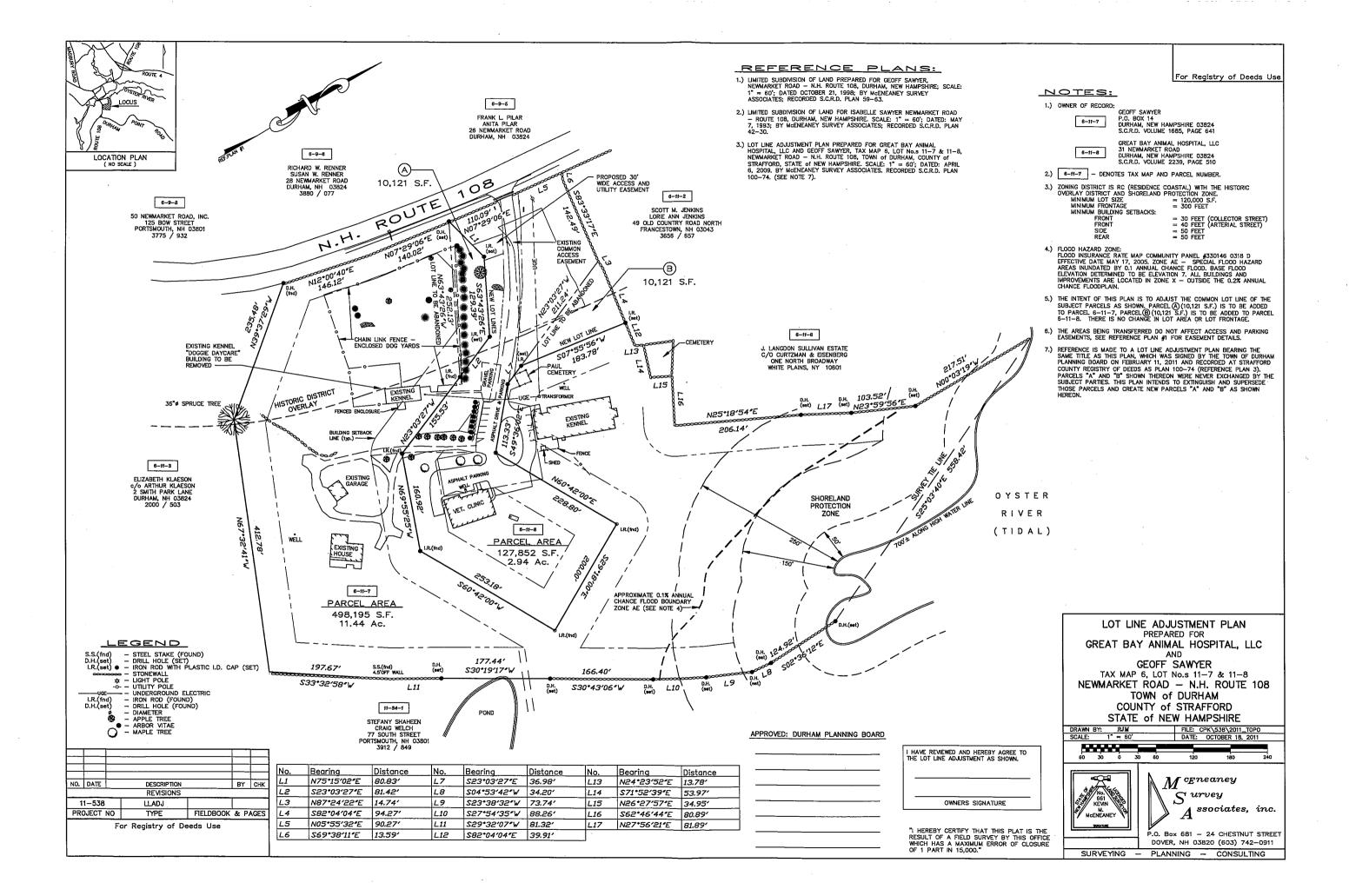
DESIGN: RW ROBIN WUNDERLICH 66 MAST ROAD

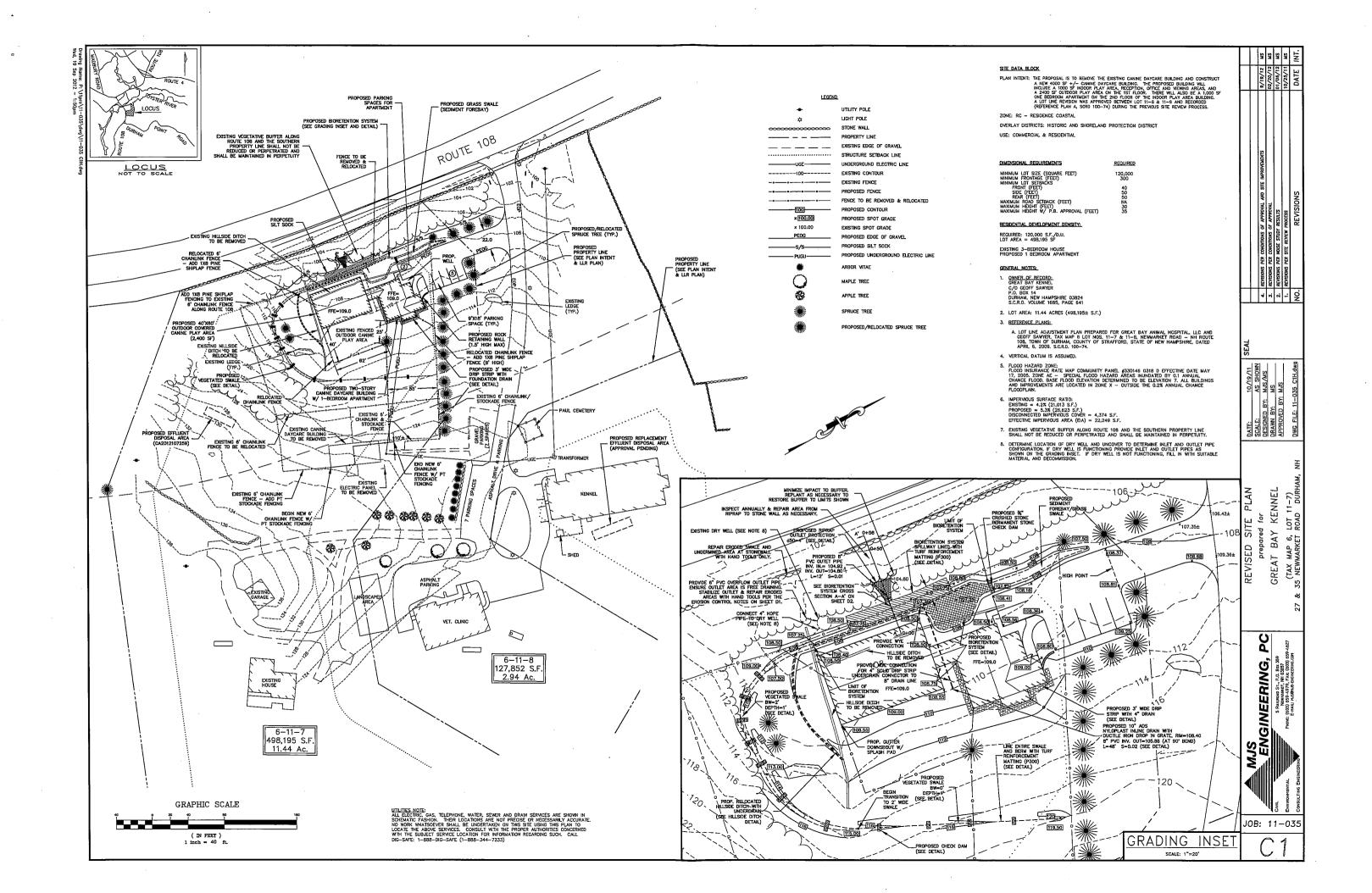
LEE, NH 03861

OWNER/APPLICANT: GEOFF SAWYER 27 NEWMARKET ROAD DURHAM, NH 03824

RECEIVED







CONSTRUCTION SEQUENCING AND EROSION CONTROL NOTES:

- THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

 2. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCUPRED:
- 2. NA AFEA. STALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 OCCURRED:
 OCCURRED:
 B. A MINIMUM OF 83" VEGETATED GROWTH HAS BEEN ESTABLISHED;
 C. A MINIMUM OF 3" OF NON-EROSVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED.
 E. TREE CLEARING HAS TAKEN PLACE, BUT STUDPS AND UNDERLYING STALLED.
 E. TREE CLEARING HAS TAKEN PLACE, BUT STUDPS AND UNDERLYING STALLED.
 3. ALL DISTRIBUTION REMAIN UNDERLYING SUIZED WITHIN 45 DAYS.
 4. PERMANENT SEEDING OF OSTUDRED, MARCH.
 E. A FLOWER SEED MINIMED SEEDED, AND MULCHED WITH THE FOLLOWING SEED MINURES OF ACHIEVALENT STEMS OF THE STAMS OF THE STEM

- - TYPE
 KENTUCKY 31 TALL FESCUE
 CREEPING RED FESCUE
 RED TOP
 MIX APPLIED AT
 B. GRASS SWALES AND DETENTION PONDS
 - QUANTITY (Ib./Ac) TYPE TALL FESCUE CREEPING RED FESCUE
- MIX APPUED AT 50

 3. MULCH . 1,5-2.0 TONS/Ac.
 5. TEMPORARY SEDIONG OF DISTURBED AREAS:
 A. ALL AREAS NOT OTHERWISE PERMANENTLY OR TEMPORARILY STABILIZED,
 SHALL BE TREATED WITH ONE OF THE FOLLOWING SEED MIXTURES IF LEFT
 LINWORKED FOR MORE THAN 14 DAYS.

UN	MORKED FOR MORE	IMAN 14 DATS.		
	SEASON	APPLICATION DATE	MIXTURE TYPE	QUANTITY (15./Ac.)
		NO LATER THAN 5/15		80
	LATE SPRING/ FALL	4/1 TO 6/1 & 8/15 TO 9/15	PERENNIAL RYE	30
	EARLY SPRING/ FALL	4/1 TO 5/15 & 8/15 TO 9/15	ANNUAL RYE	40
	FALL	8/15 TO 9/15	WINTER RYE	112

B. MULCH 1. APPLICATION RATE: 1.5-2.0 TONS/Ac.

- 3. MATER CONSTRUCTION:

 A. ANY EARTH MOVING OPERATIONS PERFORMED BETWEEN OCTOBER 15TH AND MAY 15TH SHALL BE CONSIDERED WINTER CONSTRUCTION, UNLESS COMMANDAY 15TH SHALL BE CONSIDERED WINTER CONSTRUCTION, UNLESS COMMANDAY 15TH SHALL BE CONSIDERED WINTER CONSTRUCTION, UNLESS COMMANDAY 15TH SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED BELOW PRIOR TO ANY THAW OR SPRING MELT EVENT.

 C. ALL PROPOSED POST-DEVELOMENT VEGETATED AREAS WHICH ON NOT EMBERS A WINDER SHALL BE SEX VEGETATION GROWNED WHICH ON THE MEMBERS A WINDER GROWNED SHALL BE SEX SECTION GROWNED SHALL BE SEX VEGETATION GROWNED SHALL BE SECURED AND INSTAILLING EROSION CONTRICE, BLANKETS ON SLOPES GREATER THAN 31, AND SEEDING AND PLACING 3TO 4 TONS OF WILCIA PER AGRE, SECURED WITH ANCHORED METTING, ELSEWHERE, THE PLACEMENT OF PROSION CONTRICE, BLANKETS ON WICH AND NETTING SHALL NOT OCCUR. COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

 OLD THE SECURED WITH AN ADVANCE OF THAW OR SPRING MELT EVENTS.

 UNCENTAINE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, AND AND SERVING SHALL BE COTOBER 15TH, NOT EXCHAIN THE MENT AND STATE OCTOBER 15TH, NOT WHICH ARE DISTURBED AFTER OCTOBER 15TH, NOT WHICH AND RETURNED CONTROL SHALL BE STABILIZED WITH STONE OR EROSION CONTROL.

 E. AFTER NOVEMBER 15TH, NOOWIFITE ROAD OF PARKING SHREACES SHALL BE PROTECTED WITH A MINIMUM OF 3-500. SHALL BE STORM EVENT.

B. EROSION CONTROL;

- EROSION CONTROL:

 1. INSTALLATION, INSPECTION, AND MAINTENANCE:

 A. INSTALLAL LECROSION CONTROLS AS SHOWN ON THE GRADING PLAN AND PER TYPICAL DETAILS.

 B. INDEX. CONTROLS WEEKLY AND AFTER EVERY RAIN EVENT OF CONTROLS OF THE EVERY RAIN EVENT OF CONTROLS OF THE EVERY RAIN EVENT OF CONTROLS OF THE RESIDENCE OF THE EVENT OF THE EVEN

- F. TEMPORARY SEDIMENT BASINS/SWALES

 1. INSTALL DURING CONSTRUCTION AS NEEDED.
 2. SWALES MUST BE PERMANENTLY STABILIZED PRIOR TO DIRECTING FLOW TO THEM.
 TO THEM.
 3. DURING WINTER, STABILIZE WITH MULCH OR EROSION CONTROL MATTING.
- REMOVAL

 A ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE

 B. AST VEGETATIVE COVER HAS BEEN ESTABLISHED.

 B. AFTER REMOVAL, ALL DESTREED AREAS SHALL BE REGRADED, FERTILIZED,

 B. AFTER REMOVAL, ALL DESTREED CHARLES SHALL BE REGRADED, FERTILIZED,

 AND REPAIR AS NEEDED LIVITLE WHITE WAS AND REPAIR AS NEEDED LIVITLE WAS NEEDED AND REPAIR AS NEEDED LIVITLE WAS NEEDED AND REPAIR AS NEEDED LIVITLE WAS NEEDED LIVITLE WAS NEEDED AND REPAIR AS NEEDED AND REPAIR AS NEEDED AND REPAIR AS NEEDED LIVITLE WAS NEEDED AND REPAIR AS NEEDED AND R

LOAM AREA

STANDARD DRAINAGE PIPE TRENCH

SUITABLE BACKFILL

VARIES COMPACT IN 12" LIFTS MAX.

12"

C. CONSTRUCTION SEQUENCING:

- 1. CLEAR/GRUB ONLY WITHIN THE LIMITS OF GRADING AS SHOWN ON THE PLANS. REMOVE STUMPS ONLY FROM THOSE AREAS THAT CAN BE WORKED AND STABILIZED WITHIN 45 DAYS OF REMOVAL.
 2. TOTAL SITE DISTURBANCE DEPICTED ON THESE PLANS IS 30,000 S.F.
 A. THE FOLLOWING CONSTRUCTION PHASING IS RECOMMENDED:
 1. THE PROJECT WILL BE COMPLETED IN ONE PHASE.
 B. EACH PHASE SHALL FOLLOW EROSING CONTROL RECOVERMENTS AND CONSTRUCTION SECUENCE BELOW AND SHALL BE STABILIZED PRIOR TO PROJECTION WITH NEXT PHASE.
- CONSTRUCTION SEQUENCE BELOW AND SHALL BE STABILIZED PRIOR TO PROCEDONG WITH NEXT PHASE.

 3. CLEAR/GRUB

 A. STUMPS SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH LOCAL AND STATE REQULATIONS.

 CONSTRUCT AND STABILIZE ALL TEMPORARY AND PERMANENT SEDIMENT, EROSION, AND DELECT AND STABILIZE ALL TEMPORARY AND PERMANENT SEDIMENT, EROSION, AND DELECT AND STABILIZE ALL TEMPORARY AND PERMANENT SEDIMENT, EROSION, AND DELECT AND STABILIZE LOAD STOCKPILES WITH:

 1. WITH PROPERTY STABILIZE LOAM STOCKPILES WITH:

 1. WHERE RECONSTRUCTION

 1. CONSTRUCT SAS SHOWN ON THE PLANS

 2. FILES

 1. CONSTRUCT AS SHOWN ON THE PLANS

 2. FILES

 2. FILES LOAD MANUAL STABILIZE LOAD STOCKPILES WITH:

 3. PROCEDOR DELISTIC.

 3. LOAM AND SELD SEDIMENT SAND COMPACT TO 95% MAXIMUM PROCED BEING PLACED.

 3. LOAM STUMPS, BRUSH, AND ROCKS LARGER THAN 3/4 THE DEPTH OF THE LIFT BEING PLACED.

 3. LOAM AND SEED SLOPES WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

 B. DRAMMAGE, AND SECSSSARY AND STABILIZE.

 C. BASE MATERIALS.

 1. BANK RUN AND CRUSHED GRAVEL SHALL BE PLACED IN 6° LIFTS AND COMPACTED TO 95% MAXIMUM POWER SEM MATERIALS.

- 1. INSTALL AS NECESSARY AND STABILEZ.

 C. BASE MATERIALS:

 1. BANK RUI AND CRUSHED GRAVEL SHALL BE PLACED IN 6° LIFTS AND CRUSHED DEFAIL.

 1. BANK RUI AND CRUSHED GRAVEL SHALL BE PLACED IN 6° LIFTS AND CRUSHED OF SHAMMIND PROCTOR DENSITY TO THE DEPTHS SPECIFIED IN THE TYPICAL GRAVEL PARKING LOT CROSS—SECTION DETAIL.

 D. PAVEMENT (IF CALLED FOR).

 1. PLACE AS SOON AS POSSIBLE AFTER THE SLECT MATERIALS ARE INSTALLED AND ACCEPTED TO ELIMINATE SOIL EROSION.

 2. STABILEZ PARKING AREAS AND DRIVES WITHIN 72 HOURS OF ACHIEVING PINISELD GRAVE. NECESSARY, REPAIR ALL BERGSON AND SEDIMENT CONTROL MEASURES AS STATED IN PARAGRAPH B.1 ABOVE.

 9. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AS STATED IN PARAGRAPH B.1 ABOVE.

 9. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AS STATED IN PARAGRAPH B.1 ABOVE.

D. ADDITIONAL NOTES:

- AUDITIONAL NUTES:

 1. NO FULL SHALL BE STORED ON SITE DUBING CONSTRUCTION.

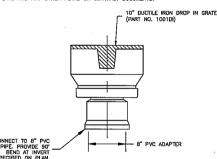
 2. DURING CONSTRUCTION DUST SHALL BE PREVENTED FROM BECOMING A SAFETY OR HEALTH HAZARD BY THE IMPLEMENTATION OF ACCEPTED CONTROL METHODS SUCH AS WATERING.

 3. ALL CONSTRUCTION MATERIALS THAT ARE SPILLED OR DEPOSITED ON THE PUBLIC ROADWAYS SHALL BE REMOVED BY THE CONTRACTOR.

 4. DO NOT BEGIN CONSTRUCTION UNITL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLED FOR AND RECEIVED.

 5. THE GENERAL CONTRACTION SITE AND STATE OF STATE AND SECRETARIOS.

 ELEVATIONS, AND CONDITIONS AT THE SITE. ANY DISCREPANCES SHALL BE REPOLENT TO THE WISHON OF THE SIGNEET BEFORE FROCESTION WITH THE AFFECTED PART OF THE WORK. THE MICHOESE DISCREPANCIES BETWEEN THESE FLANS AND ANY OTHER PLANS OR CONTRACT DOLUMENTS.



NYLOPLAST INLINE DRAIN

NOIES.

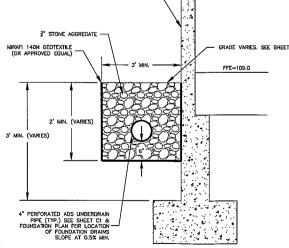
1. NILINE DRAIN TO BE: NYLPOLAST 10 INCH INLINE DRAIN (PART NO.: 2710AC) WITH 10 INCH DUCTLE IRON DROP IN GRATE (PART NO.: 1020ID).

2. INLINE DRAIN SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.

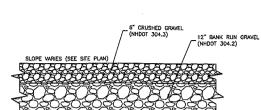
3. FOR SALES, CONTACT:
HANCOR
GEOFF HUBBARD — (603) 988—7593

68 SOUTH STREET
PORTSMOUTH, NH 03801

6" CRUSHED GRAVEL



DRIP STRIP DETAIL N.T.S.

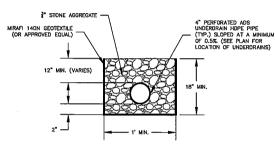


TYPICAL GRAVEL PARKING LOT CROSS SECTION

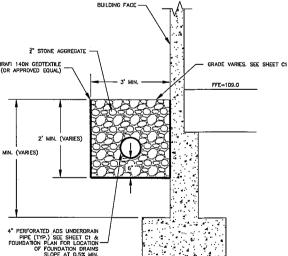
NOTES:

1. LOM AND DELETERIOUS MATERIALS ENCOUNTERED BELOW GRAVEL PARKING AREA SWALL BE COMPLETELY REMOVED PRIOR TO PLACING SELECT MATERIALS.

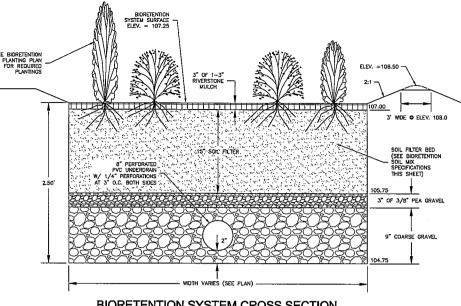
2. COMPACT SUBGRACE TO 55% MAX. PROCTOR DENSITY.



HILLSIDE DITCH DETAIL



NOTES: 1. SEE PLANS FOR LOCATION OF TRENCH



BIORETENTION SYSTEM CROSS SECTION

CONSTRUCTION NOTES:

- . DO NOT PLACE BIORETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
- 2. TO PREVENT DEGRADATION OF INFILTRATION FUNCTION: DO NOT DISCHARGE SEDMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUMORT: WATER FROM EXCANTIONS) TO THE TON ACTIVITIES (RUMORT: WATER FROM EXCANTIONS) TO THE TON NOT TRAFFIC EXPOSED SOIL SUFFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCANTIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
- CLEAR AND GRUB THE AREA WHERE THE BIORETENTION SYSTEM IS TO BE LOCATED. STOCKPILE LOAM FOR REUSE LATER.
- 4. THE FOUNDATION AREA SHALL BE SCARIFIED PRIOR TO PLACING FILL. ALL UNSUITABLE MATERIAL UNDER THE BERM SHALL BE REMOVED AND REPLACED WITH SUITABLE FOUNDATION MATERIAL.
- REMOVED AND REPLACED WITH SUITABLE FOUNDATION MATERIAL.

 5. THE BERM SHALL BE CONSTRUCTED BEGINNING FROM THE
 LOWEST PIONT UNIFORMLY ALONG ITS ENTIRE LEMGTH, PLACE
 MATERIALS IN MAXIMUM 12 LOOSE LIFTS COMPACTED TO 95%
 MAXIMUM MODIFIED PROCTOR DENSITY, EMBANKENT SOIL,
 SHALL HAVE NO GRADHE, MATTER OR FROZEM MATERIAL AND NO
 STONES LARGER THAN 2/3 OF THE MAXIMUM LOOSE LIFT
 THICKNESS. STONES AROUND ANY STRUCTURES AND/OR
 CONDUTTS SHALL HAVE THE FOLLOWING GRADATION:



- 6. ALL PIPE TO PIPE CONNECTIONS SHALL BE WATER-TIGHT.
- ALL DISTURBED AREAS NOT OTHERWISE LANDSCAPED SHALL RECEIVE FOUR INCHES OF LOAM AND SEED.

BIORETENTION SYSTEM PLANT LIST					
COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE		
CINNAMON FERN	Osmunda cinnamomea	24	1 GAL		
BLUE FLAG IRIS	Iris versicolor	80	1 GAL		
GRASSY LEAVED SWEET FLAG	Grass Acorus gramineus 'Ogon'	110	1 GAL		

- CENTRAL MAINTENANCE:

 1. SYSTEMS SHOULD BE INSPECITED AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EVENT EXCEEDING 2.5 INCHES IN A 24 HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS WARRANTED BY SUCH INSPECTION.

 2. TRASH AND DEBRIS SHOULD BE REMOVED AT EACH INSPECTION OF A 12 THE STATE OF THE SHOULD BE INSPECTED FOR THE STATE OF THE STATE OF THE SHOULD BE INSPECTED FOR THE STATE OF TH

BIORETENTION SYSTEM GENERAL NOTES:

1. BIORETENTION SYSTEM FILTER SOIL MIX SHALL MEET THE FOLLOWING REQUIREMENTS OF FILTER MEDIA OPTION A OR OPTION 9.

BIORETENTIC	N SYSTEM SOIL MIX	SPECIFICA	TIONS
			TION OF MATERIAL
COMPONENT MATERIAL	PERCENT OF MIXTURE BY VOLUME	SIEVE NO.	% BY WEIGHT PASSING STANDARD SIEVE
	FILTER MEDIA OPTIO	N A	
ASTM C-33 CONCRETE SAND	50 TO 55		
LOAMY SAND TOPSOIL, WITH FINES AS INDICATED	20 TO 30 .	200	15 TO 25
MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH, WITH FINES AS INDICATED	20 TO 30	200	< 5
	FILTER MEDIA OPTIO	N B	
MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH, WITH FINES AS INDICATED	20 TO 30	200	< 5
LOAMY COARSE SAND	70 TO 80	10	85 TO 100
		20	70 TO 100
		60	15 TO 40
		200	8 TO 15

REINFORCEMENT GRASSY LEAVED SWEET FLAG (70) TIDES	BLUE FLAG CINNAMON FERN (24)
MULCH WITH 2-3" DEEP 1-3" NATIVE RIVERSTONES PROVIDE 4" LOAM AND SEED ON ALL OTHER AREAS PER THE CONSTRUCTION SEQUENCING AND EROSION CONTROL NOTES LEGEND LIGHT BLUE FLAG IRIS	GRASSY LEAVED SWEET PLAG (20) CRASSY LEAVED SWEET FLAG (20)
GRASSY LEAVED SWEET FLAG	BIORETENTION SYSTEM PLANTING PLAN
CINNAMON FERN	SCALE: 1"=10"

DATE:
SCALE:
DESIGNED BY:
DRAWN BY:
APPROVED BY:

DETAILS for KENNEL CONSTRUCTION
prepared for
GREAT BAY KE MAP

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PC

ENGINEERING, I MEHANG, I MEHANG, I MEHANG, MEH

JOB: 11-035

STONE CHECK DAM **PROFILE VIEW**



2 - 3" CRUSHED STONE

CONSTRUCTION SPECIFICATIONS.

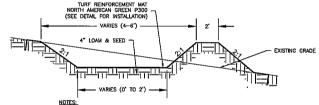
1. STRUCTURES SHALL BE RISTALLED ACCORDING TO THE DIMENSIONS SHOWN
1. STRUCTURES SHALL BE RISTALLED ACCORDING TO THE DIMENSIONS SHOWN
2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER
50 THAT EROSION, AIR AND WATER POLLUTION WILL BE MINIMIZED.
5. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THER VISEFUL

MAINTENANCE NOTES:

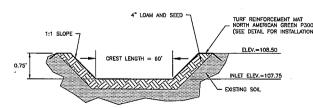
1. TEMPORARY GRADE STABILIZATION STRUCTURES SHOULD BE INSPECTED ARTER EACH STORM AND DAILY DURING PROLONGED STORM EVENTS. ANY DAMAGE TO THE STRUCTURES SHALL BE REPAIRED MANEDIATELY. PARTICULAR ATTENTION SHOULD BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE.

3. WHEN REMOVING THE STRUCTURES, THE DISTURBED AREAS SHALL BE SHOULD BE SEEDED AND MULCHED, SEEDED AND MULCHED, SEEDED AND MULCHED, SEEDED AND MULCHED, SEEDED AND SHEARLE REMOVED FROM BEHIND THE STRUCTURES WHEN IT REACHES 1/2 THE ORIGINAL HEIGHT OF THE STRUCTURES WHEN IT

STONE CHECK DAM



VEGETATED SWALE DETAIL

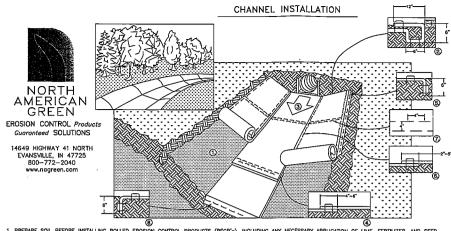


NOTES: CREST BREADTH IS WIDTH OF BERM AT SPILLWAY. CREST BREADTH = 4.0'

BIORETENTION SYSTEM SPILLWAY INLET CROSS SECTION

NOT TO SCALE

NOTE: SPILLWAY TO BE CONSTRUCTED TO THE DIMENSIONS AND SPECIFICATIONS SHOWN



. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

BEGIN AT THE TOP OF THE CHAINEL BY ANDHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) DEW TERCH WITH APPROXIMATELY 12" (30 CM) OF EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN BOTTOM OF THE TRENCH. ANCHEL AND COMPACT THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN BOTTOM OF THE TRENCH. APPROXIMATELY 12" (30 CM) APART IN CONTROL OF THE TRENCH. APPROXIMATELY 12" (30 CM) APART IN CONTROL OF THE TRENCH APPROXIMATELY 12" (30 CM) AROS THE WITH OF THE RECP'S.

3. ROLL CONSECUTIVE REOF'S IN IDERCION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY PASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT STSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLLORD DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE REOF'S END OVER END (SHINGLE STYLE) WITH A 4" — 6" (10 CM —15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE REOF'S.

5. FULL LENGTH EDGE OF RECP'S AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

6. ADJACENT RECP'S MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5 CM -12.5 CM) (DEPENDING ON RECP'S TYPE) AND STAPLED.

7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.

8. THE TERMINAL END OF THE RECP'S MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

NOTE:

" IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.

CRITICAL POINTS

NOTE:

• HORIZONTAL STAPLE SPACING SHOULD BE ALTERED
IF NECESSARY TO ALLOW STAPLES TO SECURE THE
CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE REQUIRED

TYPICAL TURF REINFORCEMENT MATTING DETAIL

SECTION A-A SECTION A-A (PIPE OUTLET TO WELL DEFINED CHANNEL)

RIP-RAP GRADATION % OF WEIGHT SMALLER THAN THE GIVEN SIZE SIZE OF STONE

APRON DIMENSION TABLE
 PIPE OUTLET
 Wo
 W
 Lo
 T
 d50

 BIORETENTION SYSTEM 4.0'
 11'
 9'
 12"
 4"

CONSTRUCTION SPECIFICATIONS:

1. PREPARE THE SUB-GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP—RAP TO THE GRADES SHOWN ON THE FILANS.

2. MINIMUM 6" SAND/GRAVEL BEDDONG OR GEOTEXTILE FABRIC SEQUIRED UNDER ALL BOOK RIP—RAP.

3. THE ROOK OR GRAVEL USED FOR FILTER OR RIP—RAP SHALL CONFORM TO THE SPECIFIED GRADATION.

4. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE FLAGEMENT OF ROCK RIP—RAP. DAMAGED AREAS ON THE FABRIC SHALL BE REPAIRED BY FLACING A RECE OF FABRIC OVER ROCK RIP—RAP. DAMAGED AREAS ON THE FABRIC SHALL BE REPAIRED BY FLACING A RECE OF FABRIC OVER GOOK OF THE FABRIC SHALL BE A MINIMUM OF 12 INCHES.

5. STONE FOR THE RIP—RAP MAY BE PLACED BY COLUMNET AND SHALL BE CONSTRUCTED TO THE FILL LAYER THICKNESS IN ONE OFFER FABRIC SHALL BE A MINIMUM OF 12 INCHES.

5. RIP—RAP SIZE CHOSEN FOR THE WORDER CASE OF ALL OUTLIETS. ALL RIP—RAP USED FOR PIPE OUTLET.

PROTECTION WILL HAVE THE SAME GRADATION AND THICKNESS.

MAINTENANCE NOTES:

1. OUTLETS SHALL BE INSPECTED AND CLEANED ANNUALLY AND AFTER ANY MAJOR STORM EVENT. ANY EROSION OR DAMAGE TO THE RIP-RAP SHALL BE REPAIRED IMMEDIATELY.

2. THE CHANNEL IMMEDIATELY DOWNSTREAM FROM THE OUTLET SHOULD BE CHECKED TO SEE THAT NO EROSION IS OCCUPRING.

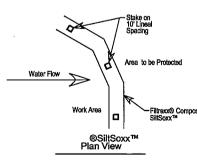
3. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TALMATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

PIPE OUTLET PROTECTION DETAIL

NOTES.

1. VEGETATED SWALE AND BIORETENTION SYSTEM SPILLWAY TO BE LINED WITH NORTH AMERICAN GREEN P300 EROSION CONTROL BLANKET OR APPROVED EQUIAL.

2. FOR SALES CONTACT:
EJ PRESCOTT, INC. Work Area Area to be Protected



1. All material to meet Filtrexx® specifications 2. Use Certified Filtrexx FilterMedia.

3. Compost material to be dispersed on site up slope from protected area.

SILTSOXX DETAIL N.T.S.

112 FINISHED FLOOR ELEVATION =109.0 PROVIDE TURF REINFORCEMENT
MATTING ON SPILLWAY PER THE
TYPICAL BIORETENTION SYSTEM
SPILLWAY DETAIL BUILDING FACE 110 ___4" LOAM 108 PROP. 8 PVC PIPE INV. IN=104.92 EXTEND FINISHED GRADE TO THE IN TO EXISTING GRADE TO SENSURE PROPER DRAINAGE FLOW BEYOND LIMITS OF BIPPAP 106 12" 104 102 DATUM ELEV 100 PROPOSED RIPRAP (SEE PIPE OUTLET PROTECTION DETAIL THIS SHEET) 0+00 0+50 0 + 58

BIORETENTION SYSTEM CROSS-SECTION A-A' SCALE: H: 1"=5" V: 1"=2"

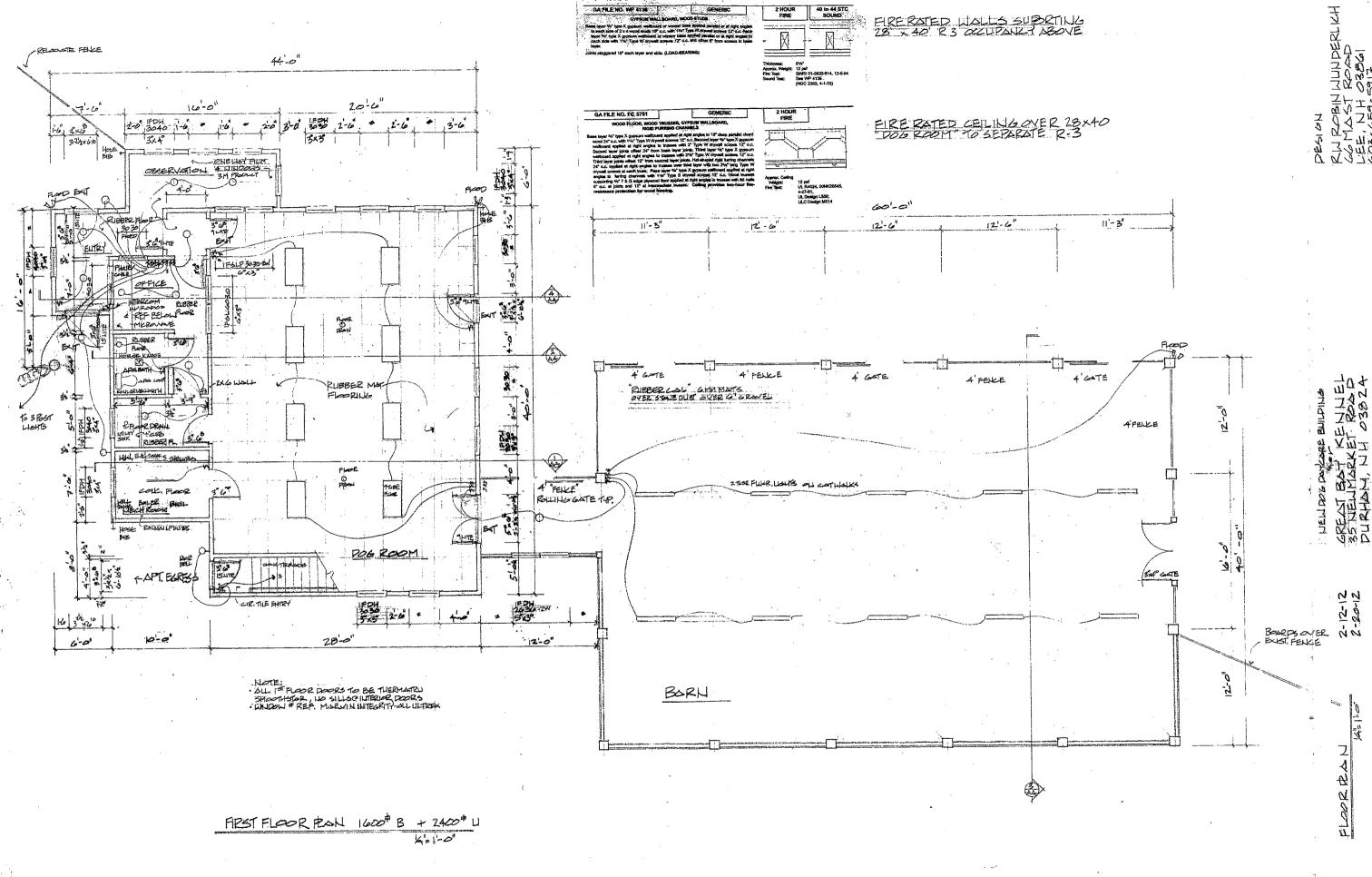
DATE:
SCALE:
DESIGNED BY:
DRAWN BY:
APPROVED BY:
DWG FILE: 11— DETAILS for KENNEL LOT 11-7) ROAD DURF CONSTRUCTION epared BAY 6 L MAP (TAX PC

e 9

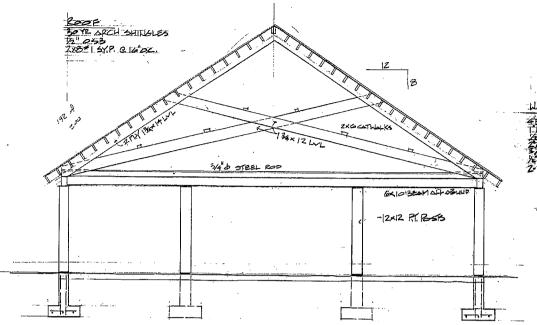
JS ENGINEERING,

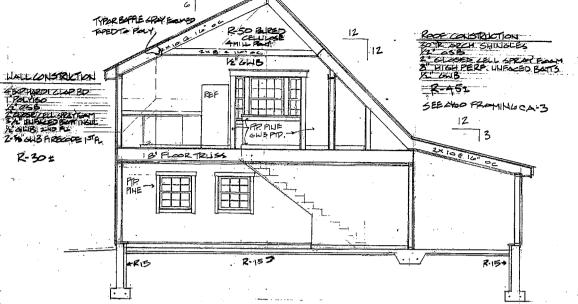
JOB: 11-035

18" Filtrexx® SiltSoxx* Filtrexx®SiltSoxx™ Section



AZ

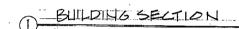


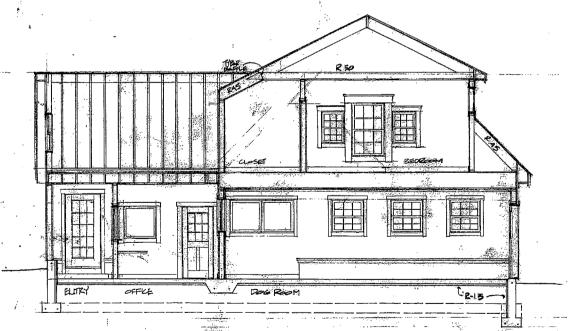


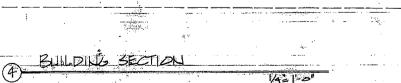
2×12-RIDGE

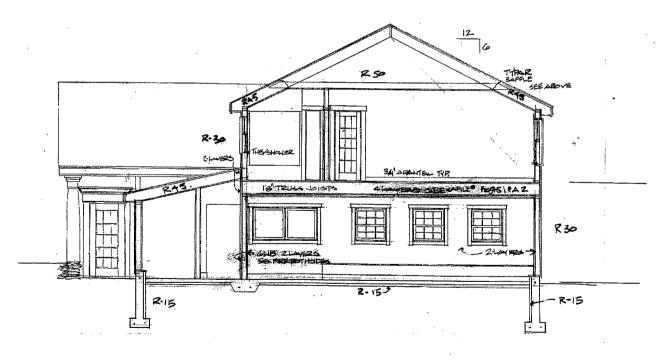
14" 15" =

BUILDING SECTION C'BARN' SEE 62.0 \$ 43.0



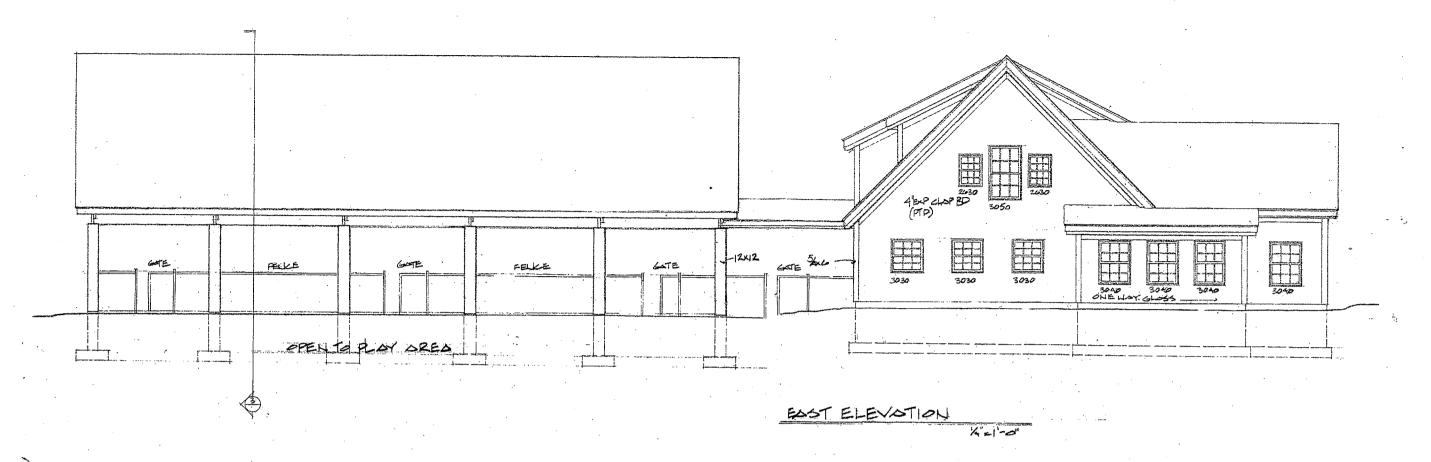


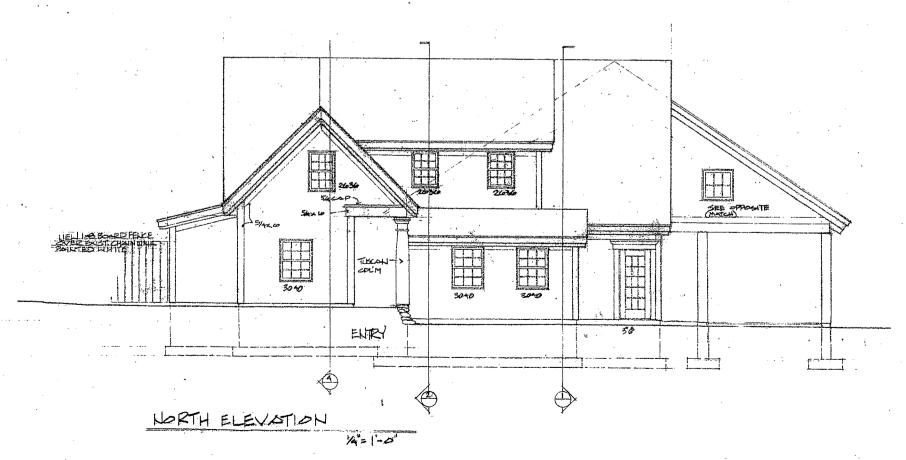


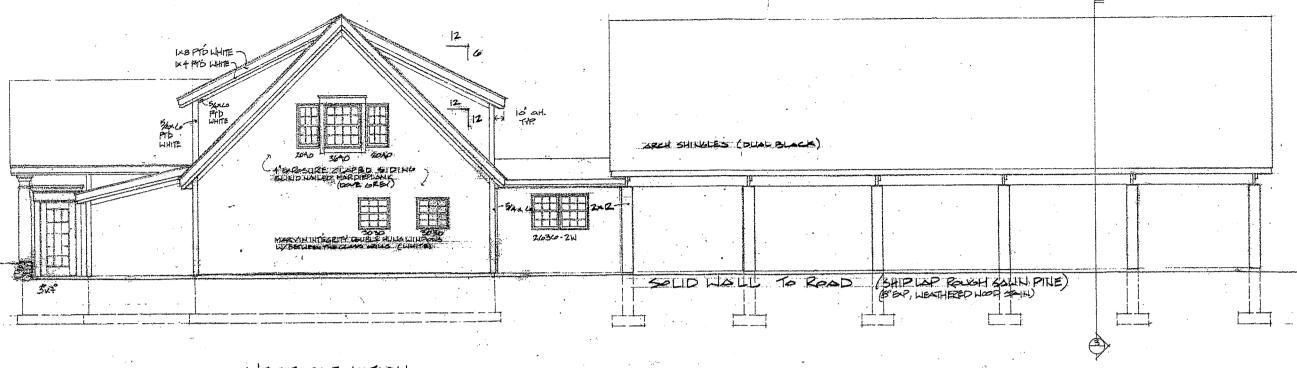


2 BUILDING SECTION H'=1-0"

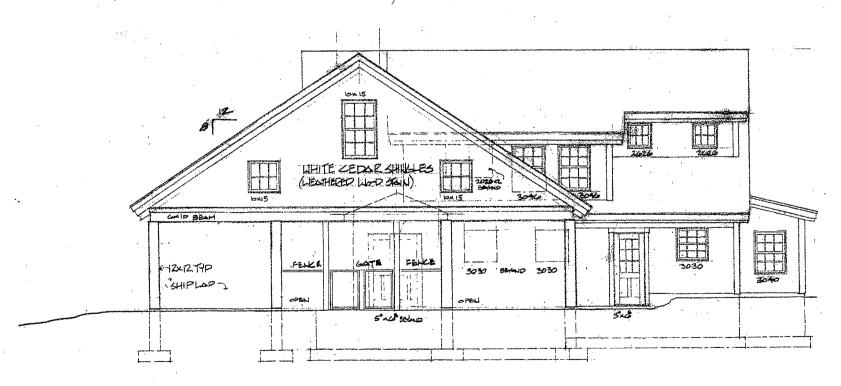
2-12-12







WEST ELEVATION M'SI-6"



SOUTH ELEVATION

141-04