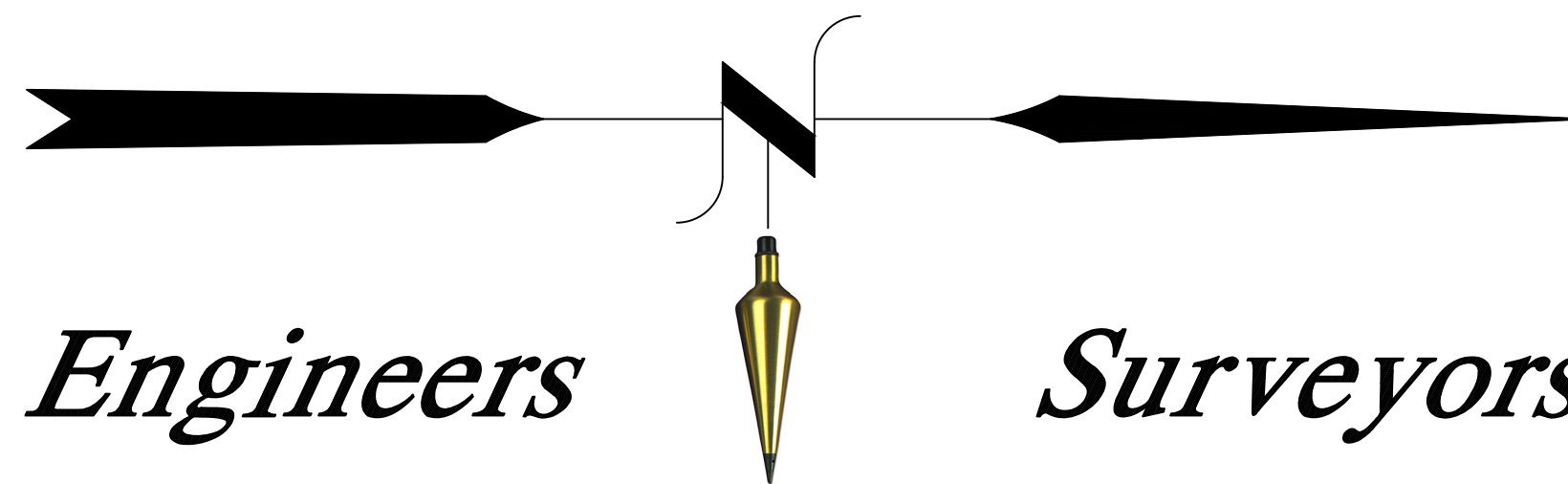


HAYNES QUARRY

3217 WINSTED RD
TORRINGTON, CONNECTICUT

Hrica Associates LLC



Engineers

Surveyors

LIST OF DRAWINGS

<u>SHEET</u>	<u>TITLE</u>
G1	OVERALL GRADING PLAN
C1-C6	SITE PLANS
D1	CONSTRUCTION DETAILS & EROSION & SEDIMENT CONTROL DETAILS
L1-L2	LANDSCAPE PLANS

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hricaassociates@optonline.net

HAYNES QUARRY
2020
SPECIAL EXCEPTION RENEWAL

3217 WINSTED RD
TORRINGTON, CONNECTICUT

PROJECT #: 06-0027
MAP DATE: 06/12/2008
REVISED: 8/14/2020

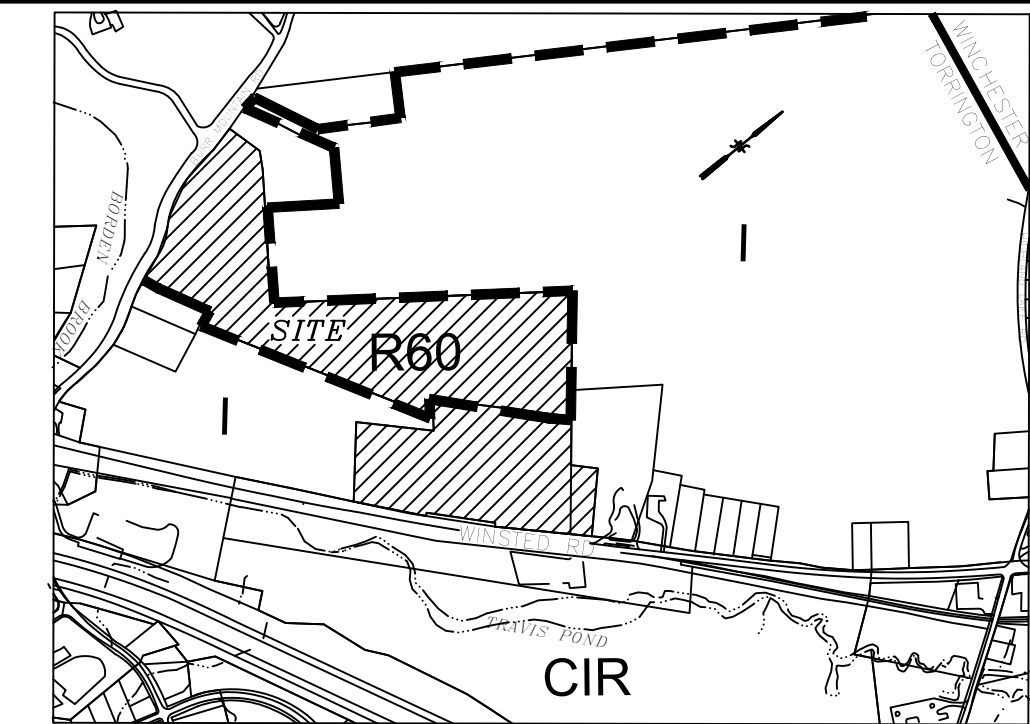
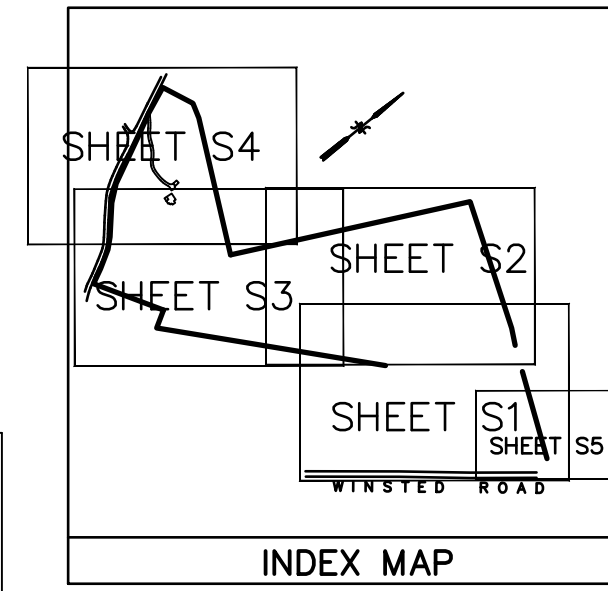
ZONING REGULATION 6.4.8.c.

AREA APPROVED FOR RETAIL USE: 1.0 ACRES
(6.7% OF EARTH EXCAVATION AREA)

AREA APPROVED FOR EARTH EXCAVATION: 19.7 ACRES
OPERATIONS AREA = 7.1 ACRES
TOTAL AREA = 26.8 ACRES

SUMMARY OF ZONING CODE REQUIREMENTS ZONE: LB (LOCAL BUSINESS)		
CODE ITEM	REQUIRED	EXISTING
AREA/DIMENSION:		
MIN. LOT AREA (SQ.FT.)	10,000	2,114,556
MIN. LOT WIDTH (FEET)	80	1,317.57
MIN. FRONT YARD (FEET)	50	50
MIN. SIDE YARD (FEET)	50	50
MIN. REAR YARD (FEET)	50	50
BUILDING HEIGHT (FEET)	60 MAX.	32.23
USAGE		RETAIL + EXCAVATION

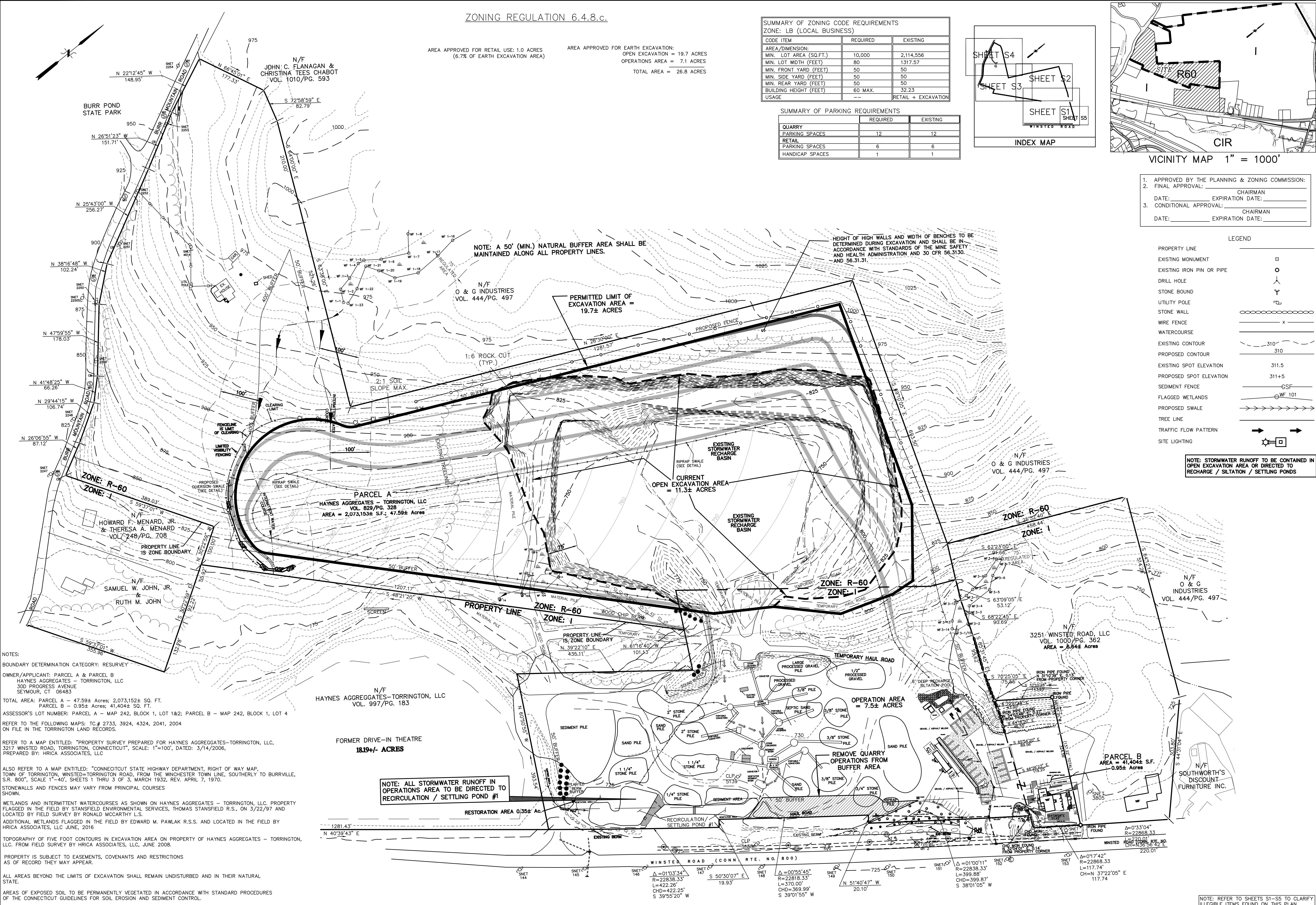
SUMMARY OF PARKING REQUIREMENTS		
	REQUIRED	EXISTING
QUARRY		
PARKING SPACES	12	12
RETAIL		
PARKING SPACES	6	6
HANDICAP SPACES	1	1



- APPROVED BY THE PLANNING & ZONING COMMISSION:
- FINAL APPROVAL: _____ CHAIRMAN
DATE: _____ EXPIRATION DATE: _____
- CONDITIONAL APPROVAL: _____ CHAIRMAN
DATE: _____ EXPIRATION DATE: _____

LEGEND	
PROPERTY LINE	—
EXISTING MONUMENT	□
EXISTING IRON PIN OR PIPE	○
DRILL HOLE	⊕
STONE BOUND	⊕
UTILITY POLE	⊕
STONE WALL	—
WIRE FENCE	x
WATERCOURSE	—
EXISTING CONTOUR	310
PROPOSED CONTOUR	310
EXISTING SPOT ELEVATION	311.5
PROPOSED SPOT ELEVATION	311+5
SEDIMENT FENCE	—
FLAGGED WETLANDS	WF 101
PROPOSED SWALE	—
TREE LINE	—
TRAFFIC FLOW PATTERN	→
SITE LIGHTING	⊕

NOTE: STORMWATER RUNOFF TO BE CONTAINED IN OPEN EXCAVATION AREA OR DIRECTED TO RECHARGE / SILTATION / SETTLING PONDS



NOTES:

BOUNDARY DETERMINATION CATEGORY: RESURVEY

OWNER/APPLICANT: PARCEL A & PARCEL B
HAYNES AGGREGATES - TORRINGTON, LLC
300 PROGRESS AVENUE
SEYMOUR, CT 06483

TOTAL AREA: PARCEL A - 47.59± Acres; 2,073,152± SQ. FT.
PARCEL B - 0.95± Acres; 41,404± SQ. FT.

ASSESSOR'S LOT NUMBER: PARCEL A - MAP 242, BLOCK 1, LOT 1&2; PARCEL B - MAP 242, BLOCK 1, LOT 4

REFER TO THE FOLLOWING MAPS: TC # 2733, 3924, 4324, 2041, 2004 ON FILE IN THE TORRINGTON LAND RECORDS.

REFER TO A MAP ENTITLED: "PROPERTY SURVEY PREPARED FOR HAYNES AGGREGATES - TORRINGTON, LLC, 3217 WINSTED ROAD, TORRINGTON, CONNECTICUT", SCALE: 1"=100', DATED: 3/14/2006, PREPARED BY: HRICA ASSOCIATES, LLC

ALSO REFER TO A MAP ENTITLED: "CONNECTICUT STATE HIGHWAY DEPARTMENT, RIGHT OF WAY MAP, TOWN OF TORRINGTON, WINSTED-TORRINGTON ROAD, FROM THE WINCHESTER TOWN LINE, SOUTHERLY TO BURRVILLE, S.R. 800", SCALE: 1"=40', SHEETS 1 THRU 3 OF 3, MARCH 1932, REV. APRIL 7, 1970.

STONE WALLS AND FENCES MAY VARY FROM PRINCIPAL COURSES SHOWN.

WETLANDS AND INTERMITTENT WATERCOURSES AS SHOWN ON HAYNES AGGREGATES - TORRINGTON, LLC. PROPERTY FLAGGED IN THE FIELD BY STANSFIELD ENVIRONMENTAL SERVICES, THOMAS STANSFIELD R.S., ON 3/22/97 AND LOCATED BY FIELD SURVEY BY RONALD MCCARTHY L.S.

ADDITIONAL WETLANDS FLAGGED IN THE FIELD BY EDWARD M. PAWLAK R.S.S. AND LOCATED IN THE FIELD BY HRICA ASSOCIATES, LLC JUNE, 2016

TOPOGRAPHY OF FIVE FOOT CONTOURS IN EXCAVATION AREA ON PROPERTY OF HAYNES AGGREGATES - TORRINGTON, LLC. FROM FIELD SURVEY BY HRICA ASSOCIATES, LLC, JUNE 2008.

PROPERTY IS SUBJECT TO EASEMENTS, COVENANTS AND RESTRICTIONS AS OF RECORD THEY MAY APPEAR.

ALL AREAS BEYOND THE LIMITS OF EXCAVATION SHALL REMAIN UNDISTURBED AND IN THEIR NATURAL STATE.

AREAS OF EXPOSED SOIL TO BE PERMANENTLY VEGETATED IN ACCORDANCE WITH STANDARD PROCEDURES OF THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

N/F HAYNES AGGREGATES - TORRINGTON, LLC VOL. 997/P.G. 183

FORMER DRIVE-IN THEATRE 18.19± ACRES

NOTE: ALL STORMWATER RUNOFF IN OPERATIONS AREA TO BE DIRECTED TO RECIRCULATION / SETTLING POND #1

NOTE: A 50' (MIN.) NATURAL BUFFER AREA SHALL BE MAINTAINED ALONG ALL PROPERTY LINES.

HEIGHT OF HIGH WALLS AND WIDTH OF BENCHES TO BE DETERMINED DURING EXCAVATION AND SHALL BE IN ACCORDANCE WITH STANDARDS OF THE MINE SAFETY AND HEALTH ADMINISTRATION AND 30 CFR 56.3130 AND 56.3131.

Hrica Associates LLC
Surveyors
Engineers

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e-mail: hricassocassociates@optonline.net

CT Lic. #0886

I HEREBY DECLARE THAT TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEYING WORK WAS COMPLETED IN ACCORDANCE WITH THE SURVEYING CODES AND REGULATIONS OF CONNECTICUT THROUGH 20-3006-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES AND THE MINIMUM STANDARDS FOR SURVEYS BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

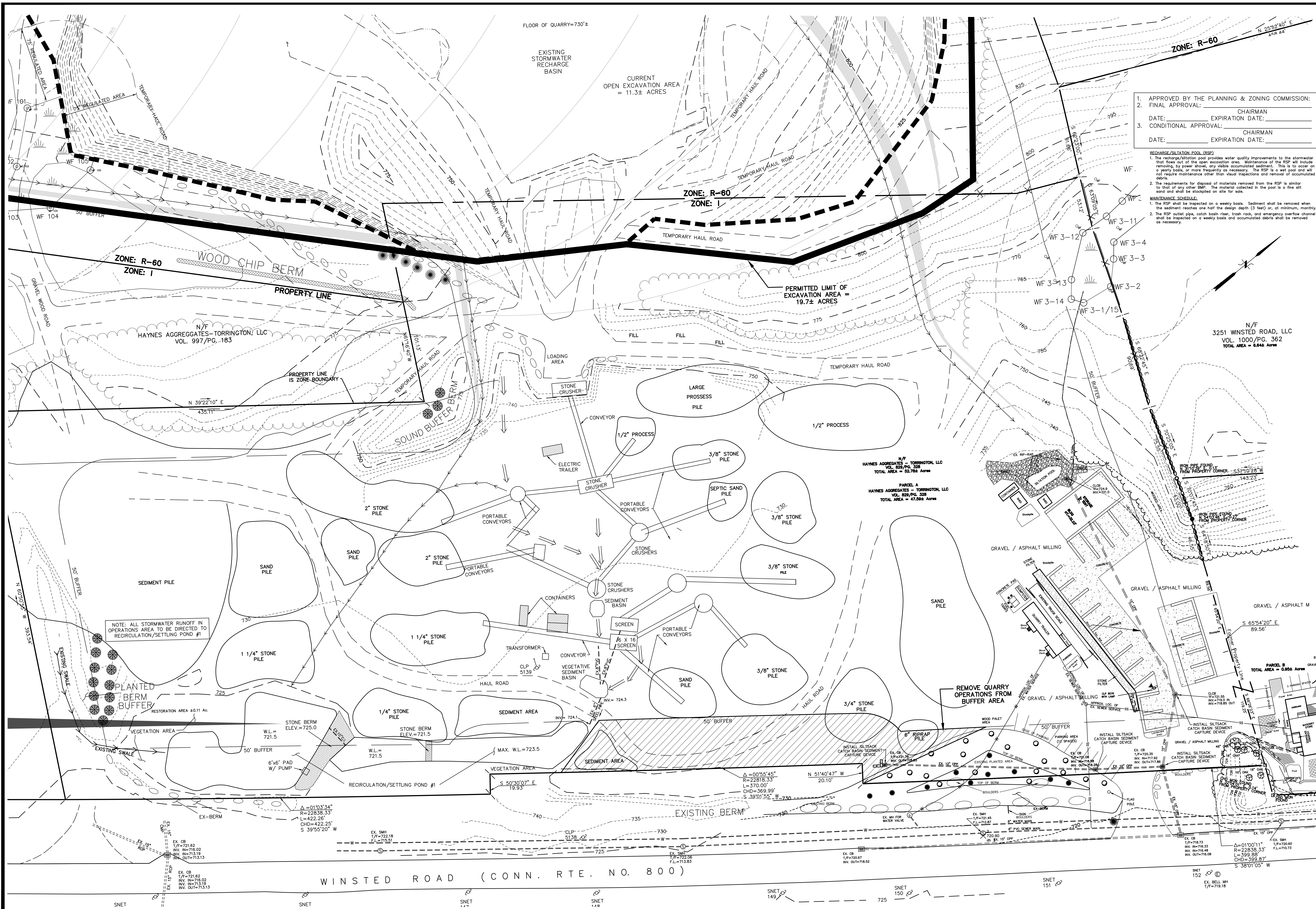
OVERALL GRADING PLAN

PREPARED FOR
HAYNES AGGREGATES - TORRINGTON, LLC
3217 WINSTED ROAD
TORRINGTON, CONNECTICUT

Date	Revision
11/07/2014	RESTORATION AREA
10/02/2016	ASBUILT 2016
11/07/2016	ZONING REGULATIONS 6.4.C. TABLE
07/07/2018	PERMIT RENEWAL
07/02/2020	PERMIT RENEWAL
08/14/2020	WETLANDS PERMIT RENEWAL

Date: 06/12/08
Scale: 1" = 100'
Project No.: 06-0027
Drawing No.: 060027
Map No.: 0027
Sheet: G1

NOTE: REFER TO SHEETS S1-S5 TO CLARIFY ILLEGIBLE ITEMS FOUND ON THIS PLAN



1. APPROVED BY THE PLANNING & ZONING COMMISSION:
 2. FINAL APPROVAL: _____ CHAIRMAN
 DATE: _____ EXPIRATION DATE: _____
 3. CONDITIONAL APPROVAL: _____ CHAIRMAN
 DATE: _____ EXPIRATION DATE: _____

RECHARGE/SILTATION POOL (RSP)
 1. The recharge/siltation pool provides water quality improvements to the stormwater that flows out of the open excavation area. Maintenance of the RSP will include removing, by power shovel, any visible accumulated sediment. This is to occur on a yearly basis, or more frequently as necessary. The RSP is a wet pool and will not require maintenance other than visual inspections and removal of accumulated debris.
 2. The requirements for disposal of materials removed from the RSP is similar to that of any other BMP. The material collected in the pool is a fine silt sand and shall be stockpiled on site for sale.
 MAINTENANCE SCHEDULE:
 1. The RSP shall be inspected on a weekly basis. Sediment shall be removed when the sediment reaches one-half the design depth (3 feet) or, at minimum, monthly.
 2. The RSP outlet pipe, catch basin riser, trash rack, and emergency overflow channel shall be inspected on a weekly basis and accumulated debris shall be removed as necessary.

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 e-mail: hricassocassociates@ptonline.net

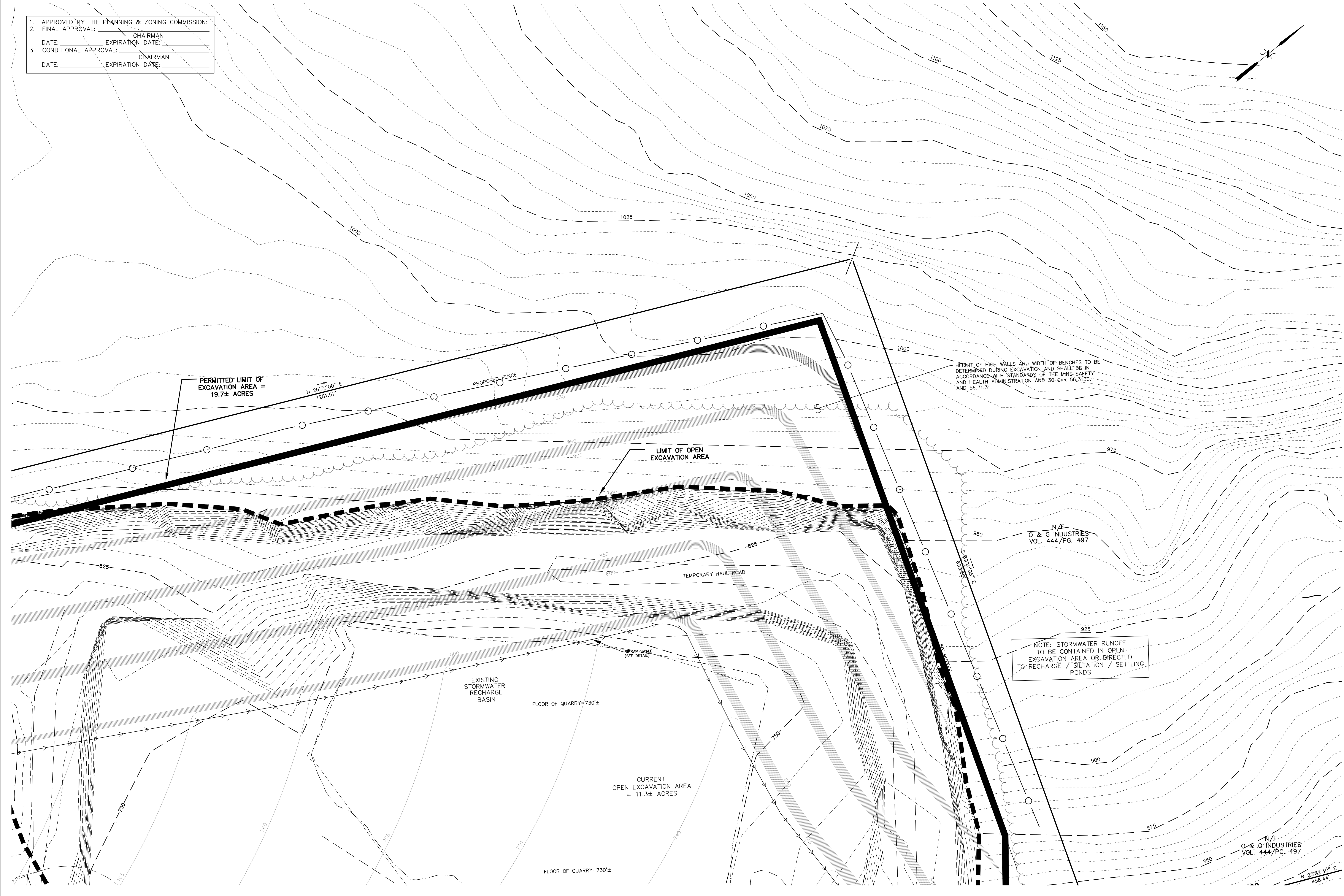
CT Lic. #0886
 I HEREBY DECLARE THAT TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEYING AND ENGINEERING WORK WAS PERFORMED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES AND THE MINIMUM STANDARDS FOR SURVEYS BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

SITE PLAN
 PREPARED FOR
HAYNES AGGREGATES - TORRINGTON, LLC
 3217 WINSTED ROAD
 TORRINGTON, CONNECTICUT

Date	Revision
06/12/08	ASBUILT 2008
11/07/08	RESTORATION AREA
01/07/08	ASBUILT 2006
01/07/08	PERMIT RENEWAL
07/07/08	PERMIT RENEWAL
08/14/08	WETLANDS PERMIT RENEWAL

Date: 06/12/08
 Scale: 1" = 40'
 Project No.: 06-0027
 Drawing No.: 060027
 Map No.: 0027
 Sheet: C1

1. APPROVED BY THE PLANNING & ZONING COMMISSION:
 2. FINAL APPROVAL: _____ CHAIRMAN
 DATE: _____ EXPIRATION DATE: _____
 3. CONDITIONAL APPROVAL: _____ CHAIRMAN
 DATE: _____ EXPIRATION DATE: _____



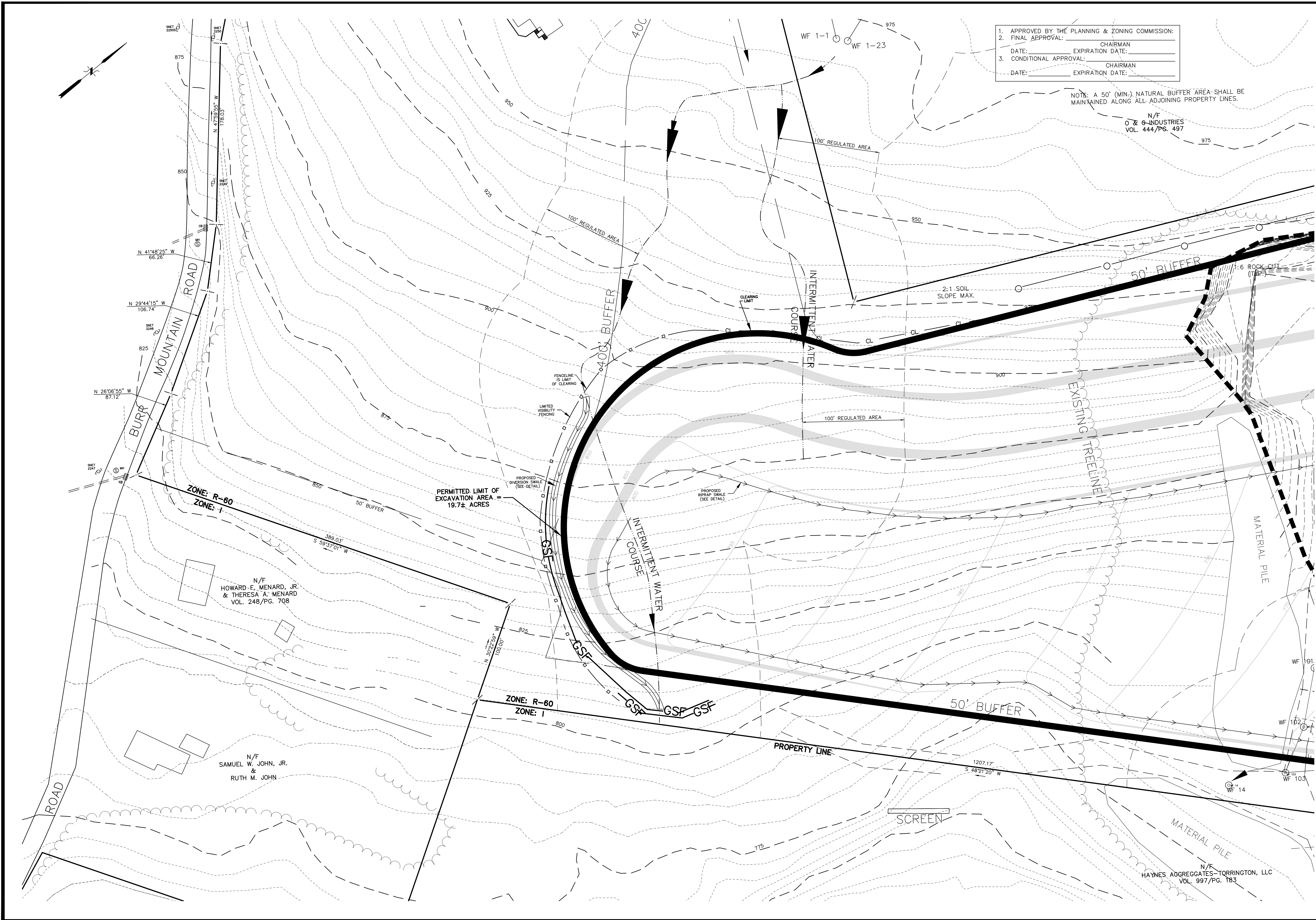
Hrica Associates LLC
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Surveyors
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 860-567-0491 (facsimile)
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CT Lic. #0806
 I HEREBY DECLARE THAT TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEY WAS CONDUCTED IN ACCORDANCE WITH SECTIONS 202, 203 AND 204 OF THE CONSTITUTION AND REGULATIONS OF CONNECTICUT THROUGH 20-3006-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES AND THE MINIMUM STANDARDS FOR SURVEY'S PREPARED BY THE ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

SITE PLAN
 PREPARED FOR
HAYNES AGGREGATES - TORRINGTON, LLC
 3217 WINSTED ROAD
 TORRINGTON, CONNECTICUT

Date	06/12/08
Revision	ASBUILT 2004
	RESTORATION AREA
	07/07/05
	ASBUILT 2006
	PERMIT RENEWAL
	03/07/08
	PERMIT RENEWAL
	07/02/2000
	WETLANDS PERMIT RENEWAL
	06/14/2000
	0
	GRAPHIC SCALE
	1
	INCHES
Date:	06/12/08
Scale:	1" = 40'
Project No.:	06-0027
Drawing No.:	060027
Map No.:	0027
Sheet:	C2

NOT VALID WITHOUT ORIGINAL SEAL



1. APPROVED BY THE PLANNING & ZONING COMMISSION:
 2. FINAL APPROVAL: CHAIRMAN
 DATE: _____ EXPIRATION DATE: _____
 3. CONDITIONAL APPROVAL: CHAIRMAN
 DATE: _____ EXPIRATION DATE: _____

NOTE: A 50' (MIN.) NATURAL BUFFER AREA SHALL BE MAINTAINED ALONG ALL ADJOINING PROPERTY LINES.

N/F
 O & G INDUSTRIES
 VOL. 444/PG. 497

N 41°48'25" W
 66.26'
 N 29°44'15" W
 106.74'
 N 26°06'55" W
 87.12'

N/F
 HOWARD E. MENARD, JR.
 & THERESA A. MENARD
 VOL. 248/PG. 708

N/F
 SAMUEL W. JOHN, JR.
 &
 RUTH M. JOHN

PERMITTED LIMIT OF
 EXCAVATION AREA
 19.7± ACRES

ZONE: R-60
 ZONE: I

N/F
 HAYNES AGGREGATES - TORRINGTON, LLC
 VOL. 997/PG. 183

Kenneth S. Hrica P.E.L.S. CT Lic. #0806
 I HEREBY DECLARE THAT TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS MAP WAS PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT THROUGH 20-3006-20 OF THE MINIMUM STANDARDS FOR SURVEY'S STATE AGENCIES AND THE MINIMUM STANDARDS FOR SURVEY'S OF THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

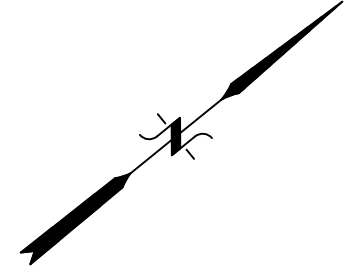
SITE PLAN
 PREPARED FOR
HAYNES AGGREGATES - TORRINGTON, LLC
 3217 WINSTED ROAD
 TORRINGTON, CONNECTICUT

Date	7/02/2020
Revision	PERMIT RENEWAL

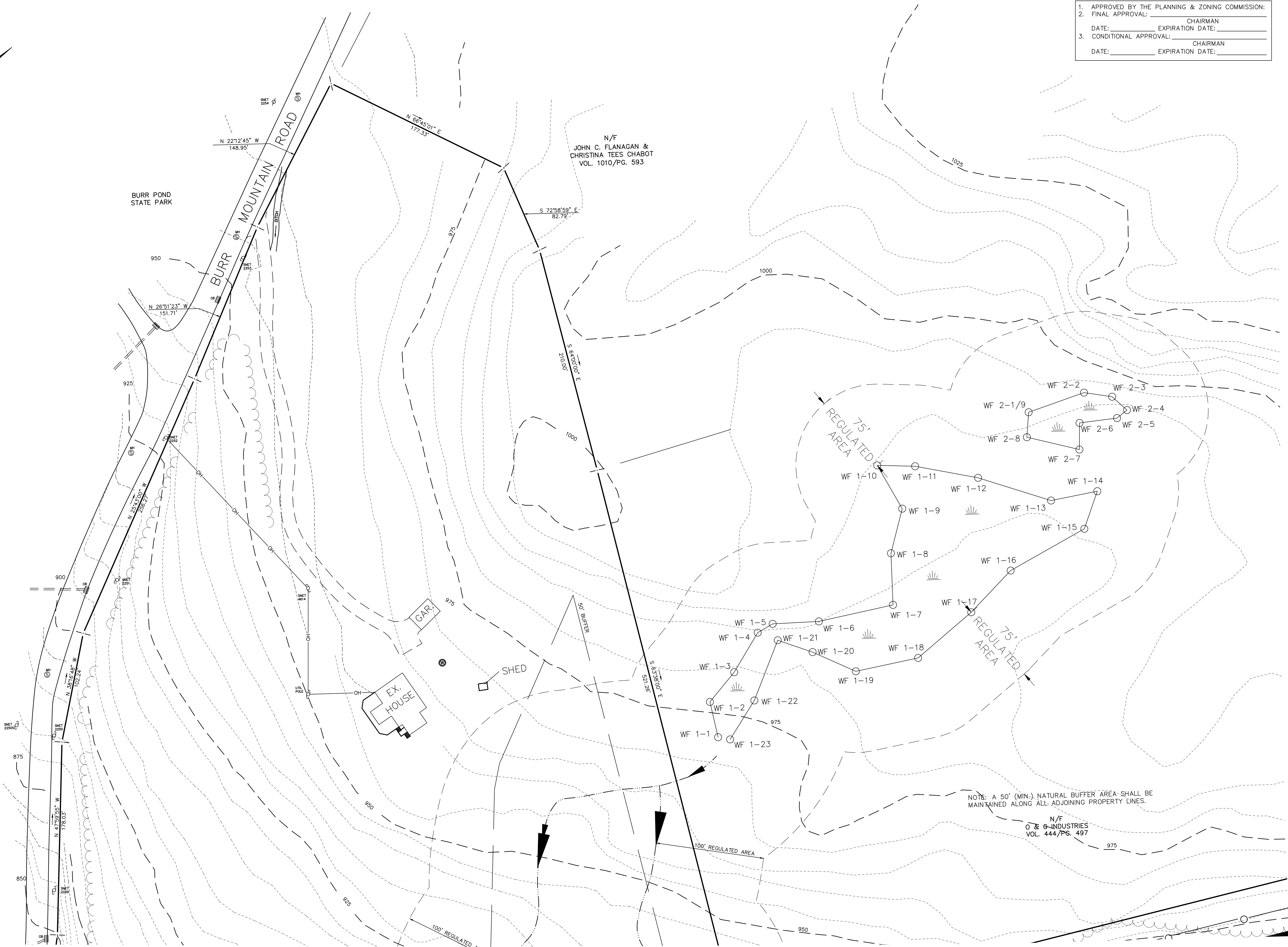
Date:	06/12/08
Scale:	1" = 40'
Project No.:	06-0027
Drawing No.:	060027
Map No.:	0027
Sheet:	C3

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NOT VALID WITHOUT ORIGINAL SEAL



1. APPROVED BY THE PLANNING & ZONING COMMISSION:
 2. FINAL APPROVAL: _____ CHAIRMAN
 DATE: _____ EXPIRATION DATE: _____
 3. CONDITIONAL APPROVAL: _____ CHAIRMAN
 DATE: _____ EXPIRATION DATE: _____



Hrica Associates LLC
Engineers
Surveyors

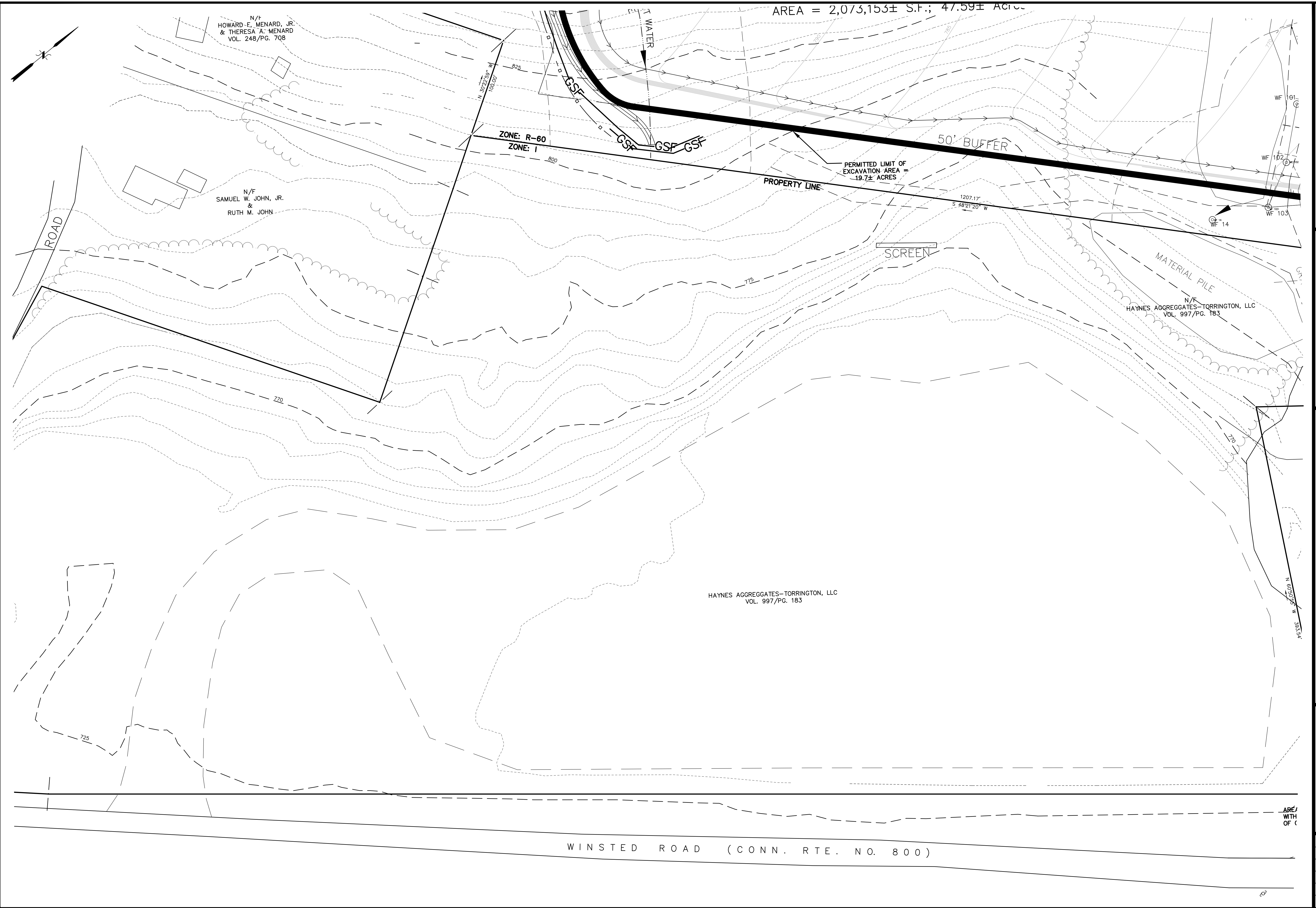
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CT Lic. #0806
 I HEREBY DECLARE THAT TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS MAP WAS PREPARED IN ACCORDANCE WITH THE REGULATIONS OF THE SURVEYING AND MAPPING BOARD OF THE STATE OF CONNECTICUT THROUGH 20-3006-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES AND THE MINIMUM STANDARDS FOR SURVEYS OF THE PROFESSIONAL SURVEYORS OF THE STATE OF CONNECTICUT AS ADOPTED BY THE ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

NOT VALID WITHOUT ORIGINAL SEAL.

SITE PLAN
 PREPARED FOR
HAYNES AGGREGATES - TORRINGTON, LLC
 3217 WINSTED ROAD
 TORRINGTON, CONNECTICUT

Date	06/12/08
Scale	1" = 40'
Project No.	06-0027
Drawing No.	060027
Map No.	0027
Sheet	C4



AREA = 2,073,153± S.F.; 47.59± ACRES

N/F
HOWARD E. MENARD, JR.
& THERESA A. MENARD
VOL. 248/P.G. 708

N/F
SAMUEL W. JOHN, JR.
&
RUTH M. JOHN

N/F
HAYNES AGGREGGATES-TORRINGTON, LLC
VOL. 997/P.G. 183

HAYNES AGGREGGATES-TORRINGTON, LLC
VOL. 997/P.G. 183

PERMITTED LIMIT OF
EXCAVATION AREA =
19.7± ACRES

ZONE: R-60
ZONE: I

50' BUFFER

PROPERTY LINE

SCREEN

MATERIAL PILE

WINSTED ROAD (CONN. RTE. NO. 800)

Kenneth S. Hrica P.E.L.S. CT Lic. #0806
 I HEREBY DECLARE THAT TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING AND MAPPING ACT OF 1985, CHAPTER 202, SORELY AND EXCLUSIVELY IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT THROUGH 20-3006-20 OF THE REGULATIONS FOR SURVEY'S STATE AGENCIES AND THE MINIMUM STANDARDS FOR SURVEY'S PRACTICE AND ETHICS OF THE PROFESSION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

SITE PLAN
 PREPARED FOR
HAYNES AGGREGGATES - TORRINGTON, LLC
 3251 WINSTED ROAD
 TORRINGTON, CONNECTICUT

Date	Revisions

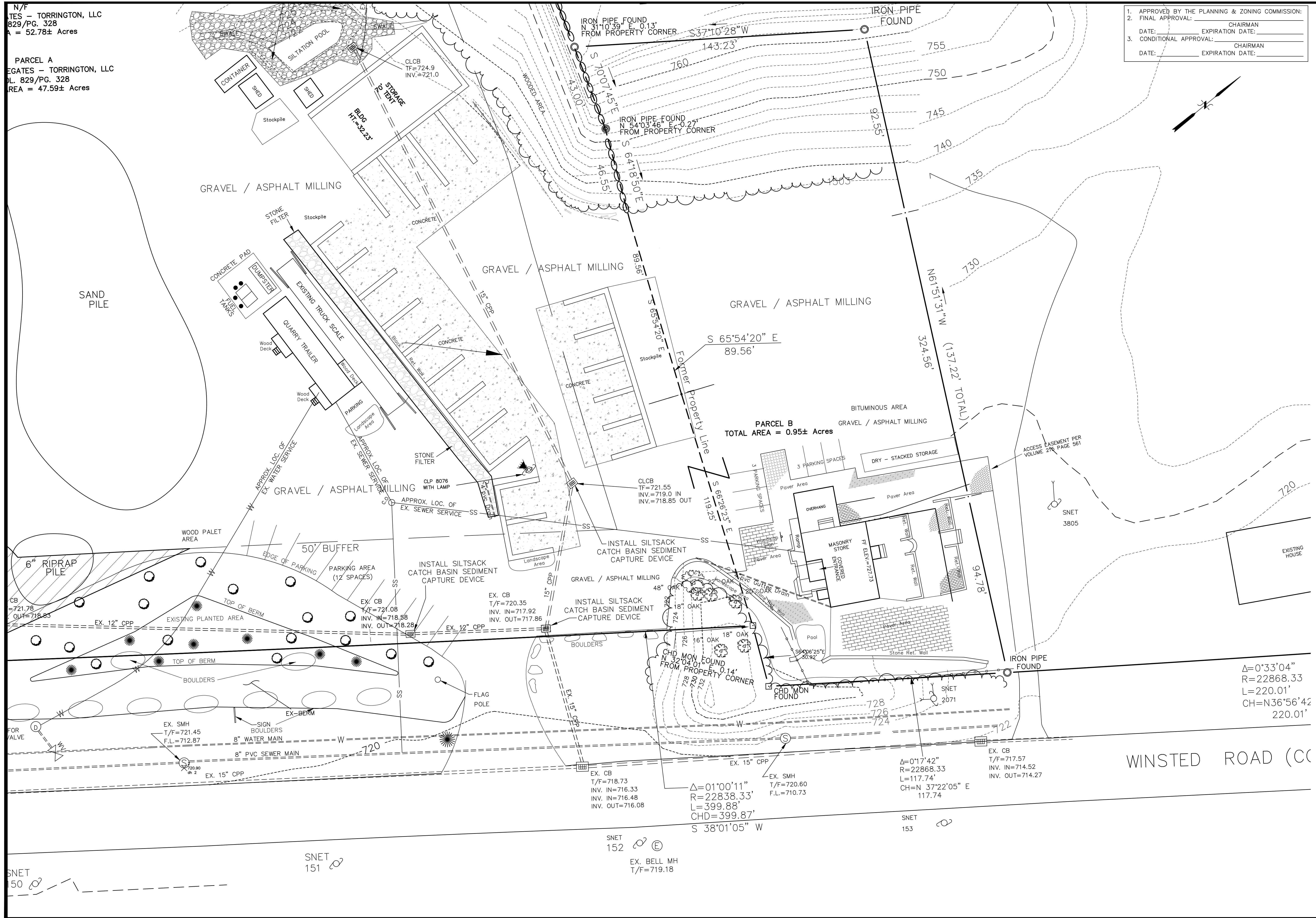
Date:	06/12/08
Scale:	1" = 40'
Project No.:	06-0027
Drawing No.:	060027
Map No.:	0027
Sheet:	C5

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 e-mail: hricassociates@optonline.net

NOT VALID WITHOUT ORIGINAL SEAL

N/F
 HAYNES - TORRINGTON, LLC
 PL. 829/P.G. 328
 AREA = 52.78± Acres

PARCEL A
 HAYNES - TORRINGTON, LLC
 PL. 829/P.G. 328
 AREA = 47.59± Acres



1. APPROVED BY THE PLANNING & ZONING COMMISSION:
 2. FINAL APPROVAL: _____ CHAIRMAN
 DATE: _____ EXPIRATION DATE: _____
 3. CONDITIONAL APPROVAL: _____ CHAIRMAN
 DATE: _____ EXPIRATION DATE: _____

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 860-567-0491 (residential)
 e-mail: hricassoc@optonline.net

CT Lic. #18866
 I HEREBY DECLARE THAT TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS MAP WAS PREPARED IN ACCORDANCE WITH SECTIONS 20-300-1 AND THROUGH 20-300-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES AND THE MINIMUM STANDARDS FOR SURVEYS OF THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

SITE PLAN
 PREPARED FOR
HAYNES AGGREGATES - TORRINGTON, LLC
 3217 WINSTED ROAD
 TORRINGTON, CONNECTICUT

Date	Revision
07/14/2008	SILTSACKS
08/02/2008	ASBUILT 2008
08/14/2008	ASBUILT 2008
01/13/2009	ASBUILT 2008

Date: 06/12/08
 Scale: 1" = 20'
 Project No.: 06-0027
 Drawing No.: 060027
 Map No.: 0027
 Sheet: C6

NOT VALID WITHOUT ORIGINAL SEAL

(PS) PERMANENT SEEDING

SEED MIXTURES FOR PERMANENT SEEDING

NO.	SEED MIXTURE (VARIETY)	LBS./ACRE	LBS./1,000 SQ. FT.
15	KENTUCKY BLUEGRASS	20	.45
	CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	5	.10
	PERENNIAL RYEGRASS (NORLEA, MANHATTAN)	2	.05
	TOTAL	27	.60

FOR THE COASTAL TOWNS AND IN THE CONNECTICUT RIVER VALLEY FINAL FALL SEEDING DATES CAN BE EXTENDED AN ADDITIONAL 15 DAYS, AND DORMANT OR FROST CRACK SEEDING IS DONE AFTER THE GROUND IS FROZEN.

A. SITE PREPARATION
GRADE IN ACCORDANCE WITH THE SITE GRADING PLAN. INSTALL ALL SURFACE WATER CONTROLS. FOR AREAS TO BE MOWED REMOVE ALL STONES 2 INCHES OR LARGER. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.

NOTE: ON AREAS WHERE WOOD CHIPS AND/OR BARK MULCH WAS PREVIOUSLY APPLIED, EITHER REMOVE THE MULCH OR INCORPORATE IT INTO THE SOIL WITH A NITROGEN FERTILIZER. ADDED NITROGEN APPLICATION RATE IS DETERMINED BY SOIL TEST AT TIME OF SEEDING. ANTICIPATE 120% NITROGEN PER TON OF WOOD CHIPS AND/OR BARK MULCH.

DO NOT USE PERMANENT SEEDING ON SLOPES STEEPER THAN 2 TO 1.

B. SEEDING PREPARATION
APPLY TOPSOIL IF NECESSARY.
APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIOUS SIZES OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING 10-10-0 OR EQUIVALENT. IN ADDITION, 300 POUNDS OF 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED FOR TOPDRESSING. APPLY GROUND LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM) TO SOIL.

SOIL TEXTURE

TONS/AC	LBS./1,000 SQ. FT.
CLAY, CLAY LOAM	3
HIGH ORGANIC SOIL	135
SANDY LOAM, LOAM	2
SILT LOAM	90
LOAMY SAND, SAND	45

REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.

WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COURSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.

REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.

INSPECT SEEDBED BEFORE SEEDING. IF TRAFFIC HAS LIFTED THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

D. SEEDING
SELECT A MIXTURE FROM BELOW OR USE MIXTURE RECOMMENDED BY THE SOIL CONSERVATION SERVICE. INOCULATE ALL LEGUME SEED WITH THE CORRECT TYPE AND AMOUNT OF INOCULANT.

APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPLACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE.

WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPLACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR.

HYDRIC APPLICATION (HYDROSEEDING) IS A SUITABLE METHOD FOR USE IN CRITICAL AREAS. WHEN HYDROSEEDING, A SEEDBED IS PREPARED IN THE CONVENTIONAL WAY OR BY HAND MAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN SIX INCHES IN DIAMETER. SLOPES MUST BE NO STEEPER THAN 2 TO 1 (2 FEET HORIZONTALLY TO 1 FOOT VERTICALLY). LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). MULCHING IS NOT PROVIDE ADEQUATE SEEDBED PROTECTION. BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE WOOD FIBER MULCH. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN HYDROSEEDING.

SEED WARM SEASON GRASSES DURING THE SPRING PERIOD ONLY.

APPLY MULCH ACCORDING TO THE TEMPORARY MULCHING MEASURE OF THE GUIDELINES.

IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE IN THE GUIDELINES TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

MAINTENANCE
INITIAL ESTABLISHMENT
INSPECT SEEDED AREA AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER DURING THE GROWING SEASON.

WHERE SEED HAS BEEN REMOVED OR WHERE SOIL EROSION HAS OCCURRED DETERMINE THE CAUSE OF THE FAILURE. BIRD DAMAGE MAY BE PROBLEM IF MULCH WAS APPLIED TO THINLY TO PROTECT SEED. RE-SEED AND RE-MULCH IF MOVEMENT HAS THE RESULT OF WIND REPAIR EROSION DAMAGE ANY, RE-APPLY SEED AND MULCH, AND APPLY MULCH ANCHORING FAILURE WAS CAUSED BY CONCENTRATED WATER. (1) INSTALL ADDITIONAL METALS TO CONTROL WATER AND SEDIMENT MOVEMENT, (2) REPAIR EROSION DAMAGE, (3) RE-SEED AND (4) RE-APPLY MULCH WITH ANCHORING OR USE "TEMPORARY EROSION CONTROL BLANKET AND/OR TACKIFIERS".

TURF REINFORCEMENT MAT MEASURE.

CONTINUE INSPECTION UNTIL AT LEAST 100 PLANTS PER SQUARE FOOT HAVE GROWN TO AT LEAST 6 INCHES TALL OR UNTIL THE FIRST MOWING.

FIRST MOWING
ALLOW THE MAJORITY OF PLANTS TO ACHIEVE A HEIGHT OF AT LEAST 6 INCHES BEFORE MOWING THE FIRST TIME. DO NOT MOW WHILE THE SURFACE IS WET. MOWING WHILE THE SURFACE IS WET MAY PULL MANY SEEDLING FROM THE SOIL AND OFTEN LEAVE A SERIES OF UNNECESSARY RUTS. THE FIRST MOWING SHOULD REMOVE APPROXIMATELY ONE THIRD OF THE GROWTH, DEPENDING ON THE TYPE OF GRASS AND WHERE IT IS BEING USED. DO NOT MOW GRASS BELOW 3 INCHES. THE SEEDING WAS MULCHED, DO NOT ATTEMPT TO RAKE OUT THE MULCHING MATERIAL. NORMAL MOWING WILL GRADUALLY REMOVE ALL UNWANTED DEBRIS.

ONE THIRD OF THE GROWTH, DEPENDING ON THE TYPE OF GRASS.

LONG TERM MAINTENANCE
MOW AND FERTILIZE AT A RATE THAT APPROPRIATE AN AREA CONDITION THAT SUPPORTS THE INTENDED USE. IF SURROUNDING THE HEIGHT OF THE CUT MAY BE ADJUSTED DOWNWARD, BY DEGREES, AS NEW PLANTS BECOME ESTABLISHED. CARRY OUT AN FERTILIZATION PROGRAM ACCORDANCE WITH APPROVED SOIL TEST THAT DETERMINE THE PROPER AMOUNT OF LIME AND FERTILIZER NEED TO MAINTAIN A VIGOROUS SOIL YET PREVENT EXCESSIVE LEACHING OF NUTRIENTS TO THE GROUND-WATER OR RUNOFF TO SURFACE WATER.

ALTHOUGH NEEDS MAY BE A PROBLEM, THEY SHADE THE NEW SEEDLINGS AND HELP CONSERVE SURFACE MOISTURE. DO NOT APPLY WOOD CONTROL UNTIL THE NEW SEEDLING HAVE BEEN MOWED AT LEAST FOUR TIMES.

SELECTING SEED MIX TO MATCH NEED
AREA TO BE SEEDED MIXTURE NUMBER

MOWING DESIRED	MOWING NOT REQUIRED
1,2,3,4,5, OR 8	5,6,7,8,9,10,11,12,16,22

10 LBS PLS/ACRE = 17.9 LBS/ACRE OF BAGGED SEED
3 D.O.T. ALL PURPOSE MIX

FOOTNOTES:
PROPER INOCULANT FOR LEGUME SEEDS, USE FOUR TIMES RECOMMENDED RATE WHEN HYDROSEEDING.
USE PURE LIVE SEED (PLS) OF 90% MINIMUM PURITY
EXAMPLE: COMMON BERMUDA SEED WITH 70% GERMINATION AND 80% PURITY = 10 LBS PLS/ACRE = 17.9 LBS/ACRE OF BAGGED SEED
10 LBS PLS/ACRE = 17.9 LBS/ACRE OF BAGGED SEED
D.O.T. ALL PURPOSE MIX
WILD FLOWER MIX CONTAINING NEW ENGLAND ASTER, BABY'S BREATH, BLACK EYE SUSAN, CATFISH, DWARF COLUMBINE, PURPLE CONEFLOWER, LANCE-LEAVED CORPUS, CORNFLOWER, OX-EYE DAISY, SCARLET FLAX, FOXGLOVE, GAYFEATHER, ROCKY LARKSPUR, SPANISH LARKSPUR, CORN POPPY, SPURRED SNAPDRAGON, WALLFLOWER AND/OR YARROW MAY BE ADDED TO ANY SEED MIX GIVEN. MOST SEED SUPPLIERS CARRY A WILD FLOWER MIXTURE THAT IS SUITABLE FOR THE NORTHEAST AND CONTAINS A VARIETY OF BOTH ANNUAL AND PERENNIAL FLOWERS. SEEDING RATES FOR THE SPECIFIC MIXTURES SHOULD BE FOLLOWED.
5 CONSIDERED TO BE A COOL SEASON MIX.
6 CONSIDERED TO BE A WARM SEASON MIX.

(GSF) GEOSYNTHETIC SILT FENCE

SEDIMENT BARRIERS SPECIFICATIONS

PHYSICAL PROPERTY	TEST METHOD	MINIMUM REQUIREMENT
FILTERING EFFICIENCY	ASTM 5141	75% (MIN)
GRAB TENSILE STRENGTH (LBS.)	ASTM D4632	100 LBS.
ELONGATION @ FAILURE	ASTM D4632	15%
DEFLECTION @ FAILURE	ASTM D3789	250 PPS
PUNCTURE STRENGTH	ASTM 4833	50 LBS.
APPARENT OPENING SIZE	ASTM D4751	NO LESS THAN 0.90MM
0.60 MM FLOW RATE	ASTM D4491	0.2 GAL/FT ² /MIN
PERMEATIVITY	ASTM D4491	0.05 SEC. -1 (MIN)
ULTRAVIOLET RADIATION STABILITY %	ASTM-D4355	70% AFTER 500 HOURS OF EXPOSURE (MIN)

GEOTEXTILE SILT FENCE SLOPE/LENGTH LIMITATIONS

SLOPE STEEPNESS 1	SLOPE LENGTH AND WING SPACING
5:1 OR FLATTER	100 FEET
3:1 TO 5:1	75 FEET
2:1 TO 3:1	50 FEET

MATERIALS
GEOTEXTILE FABRIC SHALL BE A PEROUS SHEET OF POLYPROPYLENE, NYLON, POLYESTER, ETHYLENE OR SIMILAR FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS SHOWN. THE GEOTEXTILE SHALL BE NON-ROTING, ACID AND ALKALI RESISTANT AND HAVE SUFFICIENT STRENGTH AND PERMEABILITY FOR THE PURPOSE INTENDED, INCLUDING FASTENING TO EXISTING OPERATIONS. FILAMENTS IN THE GEOTEXTILE SHALL BE RESISTANT TO ABSORPTION. THE FIBER NETWORK MUST BE DIMENSIONALLY STABLE AND RESISTANT TO DE-LAMINATION. THE GEOTEXTILE SHALL BE FREE OF ANY CHEMICAL TREATMENT OR COATING THAT WILL REDUCE ITS PERMEABILITY. THE GEOTEXTILE SHALL ALSO BE FREE OF ANY FLAWS OR DEFECTS WHICH WILL ALTER ITS PHYSICAL PROPERTIES. TORN OR PUNCTURED GEOTEXTILES SHALL NOT BE USED.

SUPPORTING POSTS: SHALL BE AT LEAST 42 INCHES LONG MADE OF EITHER 1.5 INCH SQUARE HARDWOOD STAKES OR STEEL POSTS WITH PROJECTIONS FOR FASTENING THE GEOTEXTILE POSSESSING A MINIMUM STRENGTH OF 0.5 POUND PER LINEAR FOOT.

PLACEMENT ON THE LANDSCAPE
LOCATE 5-10 FEET DOWN GRADIENT FROM THE TOE OF THE SLOPE. GENERALLY ON THE CONTOUR WITH MAINTENANCE AND SEDIMENT REMOVAL REQUIREMENTS IN MIND. WHEN THE CONTOUR CANNOT BE FOLLOWED INSTALL THE FENCE SUCH THAT PERPENDICULAR WINGS ARE CREATED TO BREAK THE VELOCITY OF WATER FLOWING ALONG THE FENCE.

CATCH BASINS IN SWALE ON SLOPES: LOCATE 2 "U" SHAPES ACROSS SWALE AS ABOVE. IMMEDIATELY UP SLOPE FROM THE CATCH BASIN AND THE OTHER IMMEDIATELY DOWN SLOPE FROM THE CATCH BASIN.

CATCH BASINS IN DEPRESSIONS: ENCLOSE ENTIRE CATCH BASIN.
CULVERT INLETS: LOCATE IN "U" SHAPES APPROXIMATELY 6 FEET FROM THE CULVERT IN THE DIRECTION OF THE INCOMING FLOW.
CULVERT OUTLETS: LOCATE ACROSS THE SWALE AT LEAST 6 FEET FROM THE CULVERT OUTLET.

INSTALLATION
TRENCH EXCAVATION: EXCAVATE A TRENCH A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE ON THE UP SLOPE SIDE OF THE FENCE LOCATION. FOR SLOPE AND SWALE INSTALLATIONS, EXTEND THE ENDS OF THE TRENCH SUFFICIENTLY UP SLOPE SUCH THAT BOTTOM END OF THE FENCE WILL BE HIGHER THAN THE TOP OF THE LOWEST PORTION OF THE FENCE. WHEN THE FENCE IS NOT TO BE INSTALLED ON VOLUMES OF SEDIMENT, FOR CATCH BASINS IN HOLLOWES, DRIVE POSTS AT EACH CORNER OF THE CATCH BASIN.

SUPPORT POSTS: DRIVE SUPPORT POSTS ON THE DOWN SLOPE OF THE TRENCH TO A DEPTH OF AT LEAST 12 INCHES INTO ORIGINAL GROUND. INSTALL SUPPORT POSTS CLOSER THAN 10 FEET APART WHEN CONCENTRATED FLOWS ARE ANTICIPATED OR WHEN STEEP CONTRIBUTING SLOPES AND SOIL CONDITIONS ARE EXPECTED TO GENERATE LARGER VOLUMES OF SEDIMENT. FOR CATCH BASINS IN HOLLOWES, DRIVE POSTS AT EACH CORNER OF THE CATCH BASIN.

GEOTEXTILE FILTER FABRIC: STAPLE OR SECURE THE GEOTEXTILE TO THE SUPPORT POSTS PER MANUFACTURER'S INSTRUCTION SUCH THAT AT LEAST 6 INCHES OF GEOTEXTILE LIES WITHIN THE TRENCH. THE HEIGHT OF THE FENCE DOES NOT EXCEED 30 INCHES AND THE GEOTEXTILE IS TIGHT BETWEEN THE POSTS. WHEN THE TRENCH IS OBSTRUCTED BY STONES, TREE ROOTS, ETC., ALLOW THE GEOTEXTILE TO LAY OVER THE OBSTRUCTION SUCH THAT THE BOTTOM OF THE GEOTEXTILE POINTS UP SLOPE.

IN THE ABSENCE OF MANUFACTURER'S INSTRUCTIONS, SPACE WIRE STAPLES ON WOODEN STAKES AT A MAXIMUM OF 4 INCHES APART AND ALTERNATE THEIR POSITION FROM PARALLEL TO THE AXIS OF THE STAKE TO PERPENDICULAR. DO NOT STAPLE THE GEOTEXTILE TO LIVING TREES.

PROVIDE REINFORCEMENT FOR THE FENCE WHEN IT CAN BE EXPOSED TO HIGH WINDS. WHEN JOINTS ARE OBSTRUCTED BY STONES, TREE ROOTS, ETC., ALLOW THE GEOTEXTILE TO LAY OVER THE OBSTRUCTION SUCH THAT THE BOTTOM OF THE GEOTEXTILE POINTS UP SLOPE.

BACKFILL & COMPACTION: BACKFILL THE TRENCH WITH TAMPED SOIL OR AGGREGATE OVER THE GEOTEXTILE. WHEN THE TRENCH IS OBSTRUCTED BY A STONE, TREE ROOT, ETC. MAKE SURE THE BOTTOM OF THE GEOTEXTILE LIES HORIZONTAL ON THE GROUND WITH THE RESULTING FLAP ON THE UP SLOPE SIDE OF THE GEOTEXTILE AND BURY THE FLAP 6 INCHES OF TAMPED SOIL OR AGGREGATE.

MAINTENANCE
INSPECT THE SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER TO DETERMINE MAINTENANCE NEEDS. WHEN USED FOR DETERIORATING OPERATIONS, INSPECT WATER, (1) INSTALL ADDITIONAL METALS TO CONTROL WATER AND SEDIMENT MOVEMENT, (2) REPAIR EROSION DAMAGE, (3) RE-SEED AND (4) RE-APPLY MULCH WITH ANCHORING OR USE "TEMPORARY EROSION CONTROL BLANKET AND/OR TACKIFIERS".

IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE IN THE GUIDELINES TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

SEEDING
SELECT SEED FROM RECOMMENDATIONS BELOW:

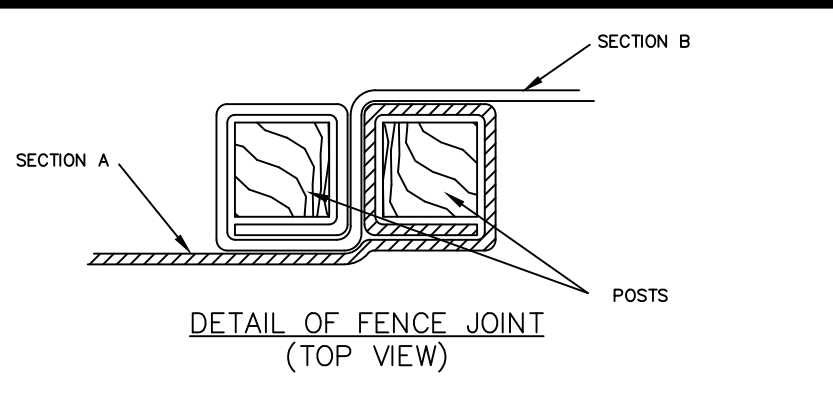
SPECIES	SEEDING RATES (LBS.) PER 1,000 SQ. FT.	OPTIMUM SEED PER 1,000 SQ. FT.	OPTIMUM SEED DEPTH (2)
ANNUAL RYEGRASS	1.0	3/1 - 6/15	0.5"
PERENNIAL RYEGRASS	1.0	8/1 - 10/1	0.5"
WINTER RYE	1.0	4/15 - 6/15	1.0"

USE GUIDELINES FOR ADDITIONAL SPECIES.

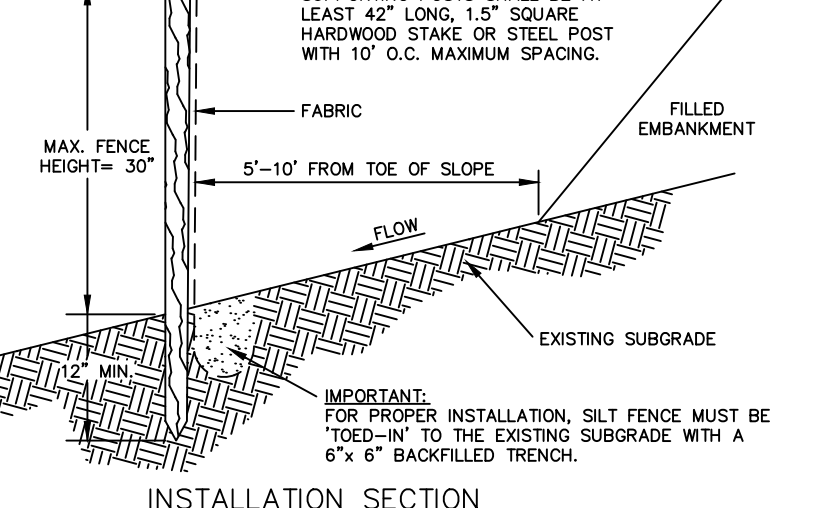
(1) MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR CAN BE IRRIGATED.
(2) SEED AT TWICE THE INDICATED DEPTH FOR SANDY SOILS.

APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPLACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDING, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN HYDROSEEDING.

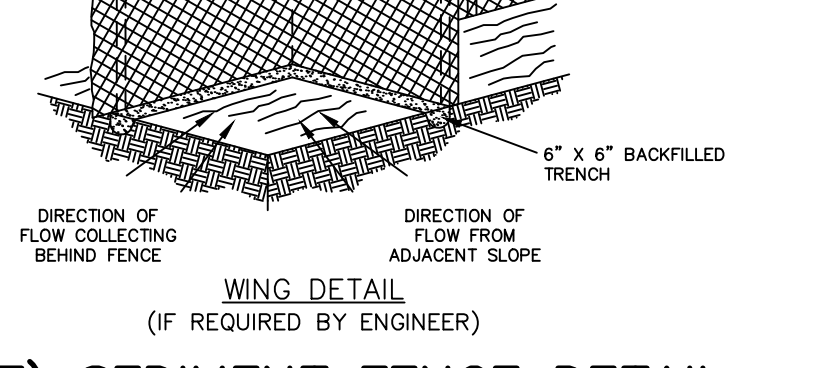
MULCHING
TEMPORARY SEEDING MADE FROM OPTIMUM SEEDING DATES SHALL BE MULCHED ACCORDING TO THE "MULCH FOR SEED" MEASURE. NOTE WHEN SEEDING OUTSIDE OF THE OPTIMUM SEEDING DATES, INCREASE THE APPLICATION OF MULCH TO PROVIDE 95%-100% COVERAGE.



DETAIL OF FENCE JOINT (TOP VIEW)
- POSITION POSTS TO OVERLAP AS SHOWN MAKING CERTAIN THAT THE FABRIC FOLDS AROUND EACH POST ONE FULL TURN
- DRIVE POSTS TIGHTLY TOGETHER AND SECURE TOPS OF POSTS BY TIGHT FIT WITH CORE OR WIRE TO PREVENT FLOW-THROUGH OF SOIL OR SEDIMENT AT JOINT.

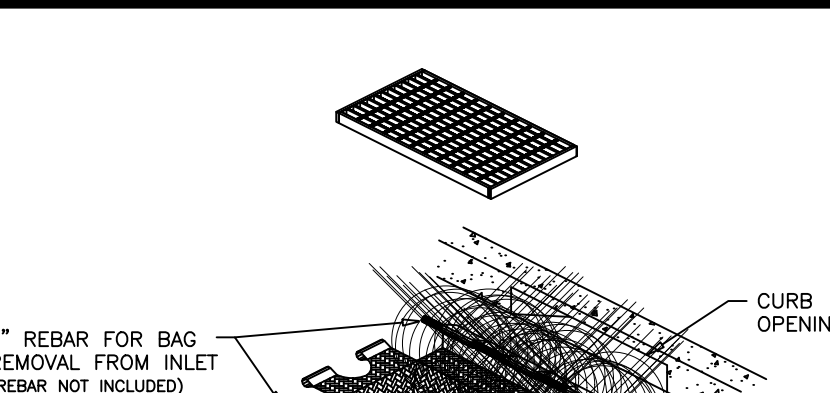


INSTALLATION SECTION
SUPPORTING POSTS SHALL BE AT LEAST 42" LONG, 1.5" SQUARE HARDWOOD STAKE OR STEEL POST WITH 10" O.C. MAXIMUM SPACING.
MAX. FENCE HEIGHT = 30"
5'-10" FROM TOE OF SLOPE
FILLER EMBANKMENT
FLOW
EXISTING SUBGRADE
WING ORIENTED TO INTERCEPT FLOW

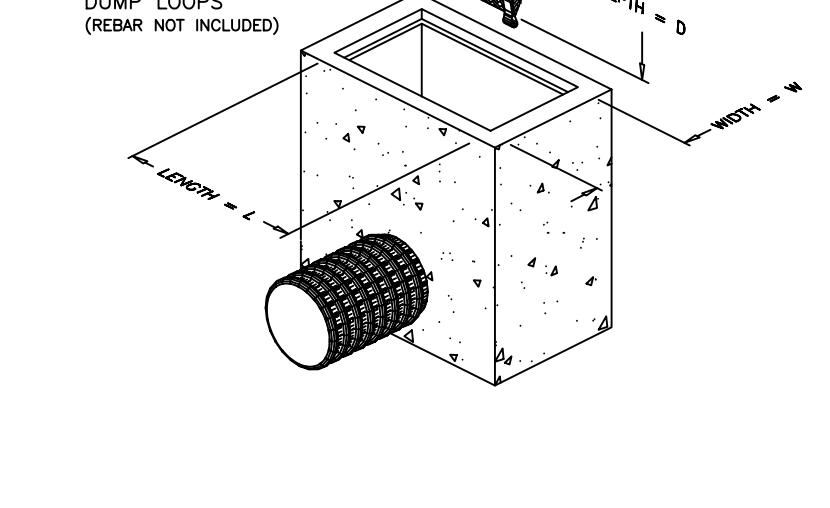


(GSF) SEDIMENT FENCE DETAIL

N.T.S.
REFERENCE: 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.



INSTALLATION DETAIL
1" REBAR FOR BAG REMOVAL FROM INLET (REBAR NOT INCLUDED)
OPTIONAL OVERFLOW
DUMP LOOPS (REBAR NOT INCLUDED)
SILTSACK
CURB OPENING
FOAM
DEPTH = D



REGULAR FLOW SILTSACK
(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNIT	MIN	MAX
GRAB TENSILE STRENGTH	ASTM D-4632		300 LBS	
GRAB TENSILE ELONGATION	ASTM D-4632		20 %	
PUNCTURE STRENGTH	ASTM D-4632		20 LBS	
MULLEN BURST	ASTM D-3786		800 PS	
PARALLEL TEAR	ASTM D-4298		120 LB/IN	
UV RESISTANCE	ASTM D-4355		80 %	
APPEARANCE OPENING SIZE	ASTM D-4298		40 LBS/SEC	
FLOW RATE	ASTM D-4491		40 GAL/MIN/50 FT	
PERMEATIVITY	ASTM D-4491		0.05 SEC -1	

HI-LOW SILTSACK
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNIT	MIN	MAX
GRAB TENSILE STRENGTH	ASTM D-4632		265 LBS	
GRAB TENSILE ELONGATION	ASTM D-4632		20 %	
PUNCTURE STRENGTH	ASTM D-4632		125 LBS	
MULLEN BURST	ASTM D-3786		420 PS	
PARALLEL TEAR	ASTM D-4298		120 LB/IN	
UV RESISTANCE	ASTM D-4355		90 %	
APPEARANCE OPENING SIZE	ASTM D-4298		20 LBS/SEC	
FLOW RATE	ASTM D-4491		200 GAL/MIN/50 FT	
PERMEATIVITY	ASTM D-4491		1.5 SEC -1	

OIL-ABSORBANT SILTSACK
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

DEPENDING ON YOUR PARTICULAR APPLICATION, THE SILTSACK CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT PULVER INSERT OR MADE COMPLETELY FROM AN OIL-ABSORBANT SILTSACK WITH A WOVEN PULVER INSERT.

SILTSACK CATCH BASIN SEDIMENT CAPTURE DEVICE

(TS) TEMPORARY SEEDING

PREPARATION
GRADE AS ACCORDING TO PLAN TO ALLOW FOR THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE MEASURE FOR LAND GRADING PER THE GUIDELINES.

INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS AND GRASSED WATERWAYS.

SEEDING
LOOSEN THE TOPSOIL TO A DEPTH OF 3-4 INCHES WITH A SLIGHTLY ROUGHENED SURFACE. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS (SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY). SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE.

IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-0 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

SOIL TEXTURE	TONS/AC.	LBS./1,000SQ.FT.
CLAY, CLAY LDAM AND	3	135
HIGH ORGANIC SOIL	2	90
SANDY LDAM, LDAM,	2	90
SILT LDAM	1	45
LDAMY SAND	1	45

REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.

SEEDING
SELECT SEED FROM RECOMMENDATIONS BELOW:

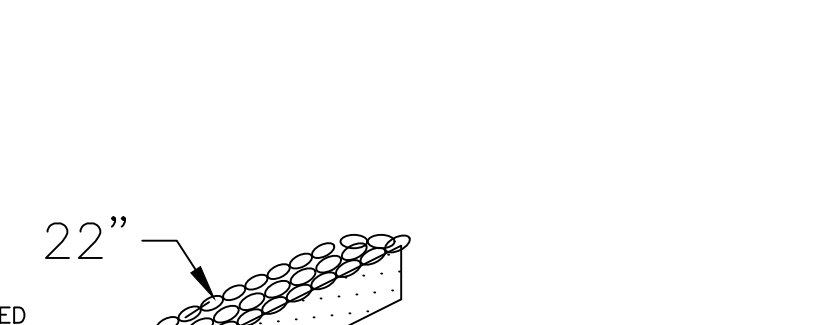
SPECIES	SEEDING RATES (LBS.) PER 1,000 SQ. FT.	OPTIMUM SEED PER 1,000 SQ. FT.	OPTIMUM SEED DEPTH (2)
ANNUAL RYEGRASS	1.0	3/1 - 6/15	0.5"
PERENNIAL RYEGRASS	1.0	8/1 - 10/1	0.5"
WINTER RYE	1.0	4/15 - 6/15	1.0"

USE GUIDELINES FOR ADDITIONAL SPECIES.

(1) MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR CAN BE IRRIGATED.
(2) SEED AT TWICE THE INDICATED DEPTH FOR SANDY SOILS.

APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPLACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDING, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN HYDROSEEDING.

MULCHING
TEMPORARY SEEDING MADE FROM OPTIMUM SEEDING DATES SHALL BE MULCHED ACCORDING TO THE "MULCH FOR SEED" MEASURE. NOTE WHEN SEEDING OUTSIDE OF THE OPTIMUM SEEDING DATES, INCREASE THE APPLICATION OF MULCH TO PROVIDE 95%-100% COVERAGE.



(TO) TOPSOILING

MATERIALS
SITE INVESTIGATIONS SHALL BE MADE TO DETERMINE IF THERE IS SUFFICIENT TOPSOIL OF GOOD QUALITY TO JUSTIFY STRIPPING. HIGH QUALITY TOPSOIL SHALL BE FRAGILE AND LOAMY (LOAM, SANDY LOAM, SILT LOAM, SANDY CLAY LOAM, CLAY LOAM). OTHER SOIL TYPES WITH HIGH ORGANIC CONTENT MAY BE FOUND SUITABLE AFTER TESTING. IT SHALL BE FREE OF DEBRIS, TRASH, STUMPS, ROCKS, ROOTS, AND NOXIOUS WEEDS. IT SHALL GIVE EVIDENCE OF BEING ABLE TO SUPPORT HEALTHY VEGETATION. IT SHALL CONTAIN NO SUBSTANCE THAT IS POTENTIALLY TOXIC TO PLANT GROWTH.

SEEDING
LOOSEN THE TOPSOIL TO A DEPTH OF 3-4 INCHES WITH A SLIGHTLY ROUGHENED SURFACE. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS (SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY). SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE.

IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-0 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

SOIL TEXTURE	TONS/AC.	LBS./1,000SQ.FT.
CLAY, CLAY LDAM AND	3	135
HIGH ORGANIC SOIL	2	90
SANDY LDAM, LDAM,	2	90
SILT LDAM	1	45
LDAMY SAND	1	45

REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.

SEEDING
SELECT SEED FROM RECOMMENDATIONS BELOW:

SPECIES	SEEDING RATES (LBS.) PER 1,000 SQ. FT.	OPTIMUM SEED PER 1,000 SQ. FT.	OPTIMUM SEED DEPTH (2)
ANNUAL RYEGRASS	1.0	3/1 - 6/15	0.5"
PERENNIAL RYEGRASS	1.0	8/1 - 10/1	0.5"
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USE GUIDELINES FOR ADDITIONAL SPECIES.

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APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPLACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDING, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN HYDROSEEDING.

MULCHING
TEMPORARY SEEDING MADE FROM OPTIMUM SEEDING DATES SHALL BE MULCHED ACCORDING TO THE "MULCH FOR SEED" MEASURE. NOTE WHEN SEEDING OUTSIDE OF THE OPTIMUM SEEDING DATES, INCREASE THE APPLICATION OF MULCH TO PROVIDE 95%-100% COVERAGE.

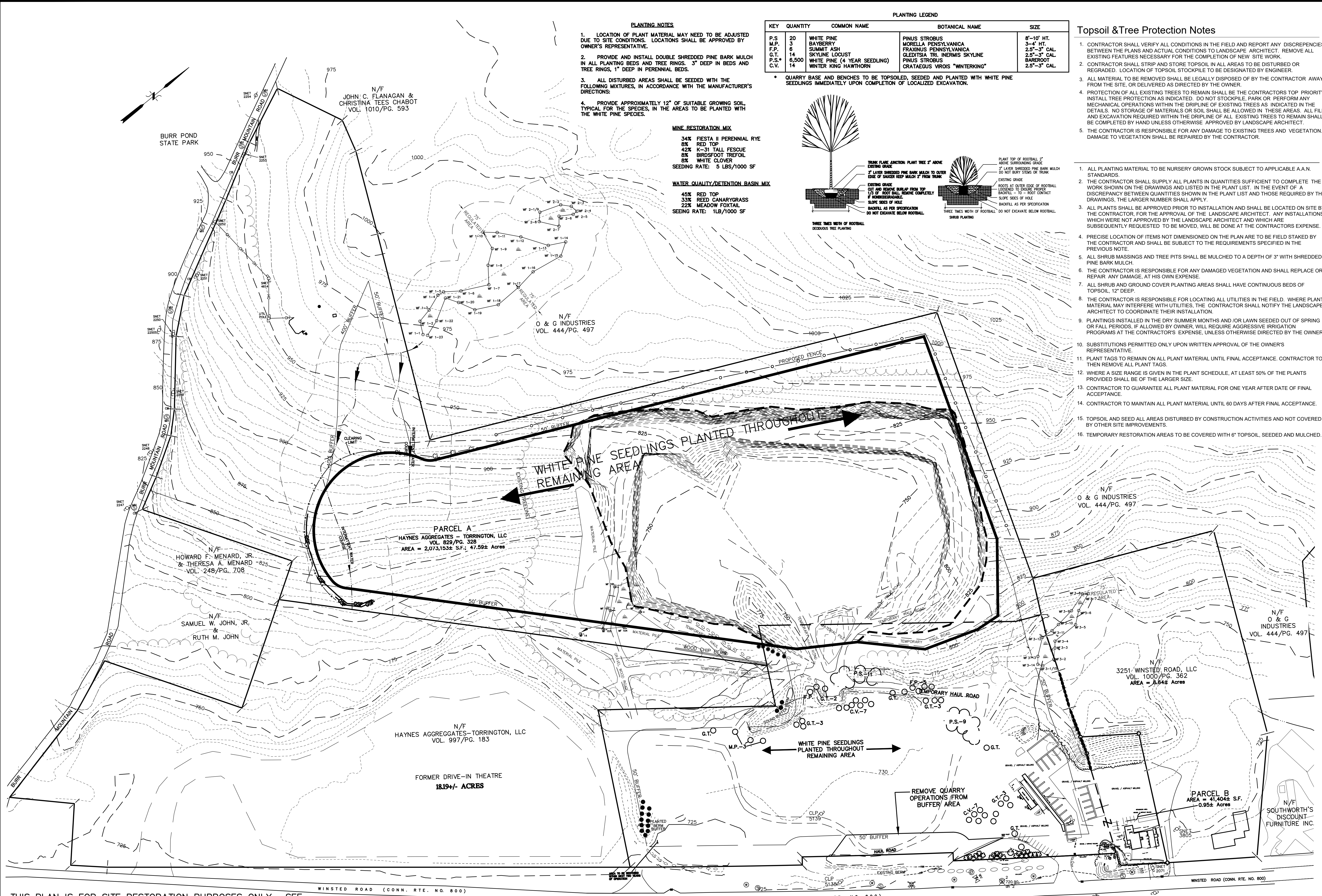
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REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.

SEEDING
SELECT SEED FROM

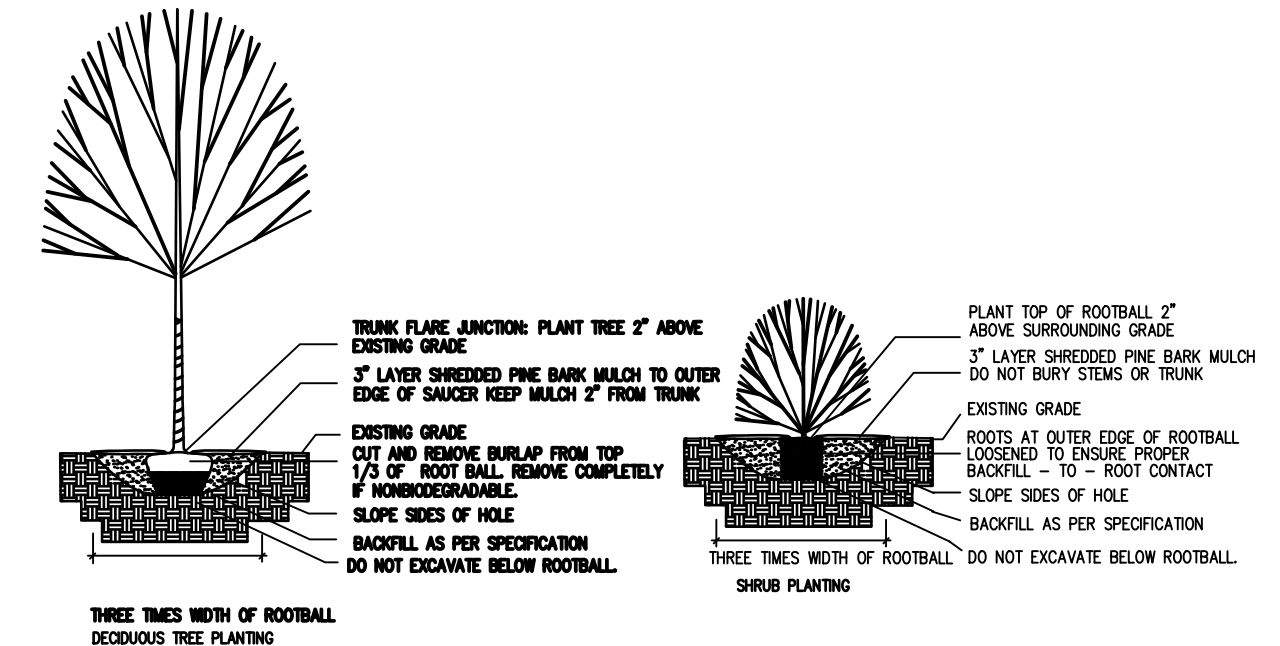


PLANTING NOTES

1. LOCATION OF PLANT MATERIAL MAY NEED TO BE ADJUSTED DUE TO SITE CONDITIONS. LOCATIONS SHALL BE APPROVED BY OWNER'S REPRESENTATIVE.
2. PROVIDE AND INSTALL DOUBLE SHREDED PINE BARK MULCH IN ALL PLANTING BEDS AND TREE RINGS. 3" DEEP IN BEDS AND TREE RINGS, 1" DEEP IN PERENNIAL BEDS.
3. ALL DISTURBED AREAS SHALL BE SEEDED WITH THE FOLLOWING MIXTURES, IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS.
 - MINE RESTORATION MIX**
 - 34% FIESTA II PERENNIAL RYE
 - 8% RED TOP
 - 42% K-31 TALL FESCUE
 - 8% BIRDFOOT TREFLOIL
 - 8% WHITE CLOVER
 - SEEDING RATE: 5 LBS/1000 SF
 - WATER QUALITY/DETENTION BASIN MIX**
 - 45% RED TOP
 - 33% REED CANARYGRASS
 - 22% MEADOW FOXTAIL
 - SEEDING RATE: 1LB/1000 SF
4. PROVIDE APPROXIMATELY 12" OF SUITABLE GROWING SOIL, TYPICAL FOR THE SPECIES, IN THE AREAS TO BE PLANTED WITH THE WHITE PINE SPECIES.

KEY	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE
P.S.	20	WHITE PINE	PINUS STROBUS	8'-10' HT.
M.P.	3	BAYBERRY	MORELLA PENNSYLVANICA	3'-4' HT.
F.P.	6	SUMMIT ASH	FRAXINUS PENNSYLVANICA	2.5"-3" CAL.
G.T.	14	SKYLINE LOCUST	GLEDTISIA TRI-INERMIS SKYLINE	2.5"-3" CAL.
P.S.*	6,500	WHITE PINE (4 YEAR SEEDLING)	PINUS STROBUS	BAREROOT
C.V.	14	WINTER KING HAWTHORN	CRATAEGUS VIRGOS "WINTERKING"	2.5"-3" CAL.

* QUARRY BASE AND BENCHES TO BE TOPSOILED, SEEDED AND PLANTED WITH WHITE PINE SEEDLINGS IMMEDIATELY UPON COMPLETION OF LOCALIZED EXCAVATION.



Topsoil & Tree Protection Notes

1. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL CONDITIONS TO LANDSCAPE ARCHITECT. REMOVE ALL EXISTING FEATURES NECESSARY FOR THE COMPLETION OF NEW SITE WORK.
 2. CONTRACTOR SHALL STRIP AND STORE TOPSOIL IN ALL AREAS TO BE DISTURBED OR REGRADED. LOCATION OF TOPSOIL STOCKPILE TO BE DESIGNATED BY ENGINEER.
 3. ALL MATERIAL TO BE REMOVED SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AWAY FROM THE SITE, OR DELIVERED AS DIRECTED BY THE OWNER.
 4. PROTECTION OF ALL EXISTING TREES TO REMAIN SHALL BE THE CONTRACTOR'S TOP PRIORITY. INSTALL TREE PROTECTION AS INDICATED. DO NOT STOCKPILE, PARK OR PERFORM ANY MECHANICAL OPERATIONS WITHIN THE DRIPLINE OF EXISTING TREES AS INDICATED IN THE DETAILS. NO STORAGE OF MATERIALS OR SOIL SHALL BE ALLOWED IN THESE AREAS. ALL FILL AND EXCAVATION REQUIRED WITHIN THE DRIPLINE OF ALL EXISTING TREES TO REMAIN SHALL BE COMPLETED BY HAND UNLESS OTHERWISE APPROVED BY LANDSCAPE ARCHITECT.
 5. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING TREES AND VEGETATION. DAMAGE TO VEGETATION SHALL BE REPAIRED BY THE CONTRACTOR.
1. ALL PLANTING MATERIAL TO BE NURSERY GROWN STOCK SUBJECT TO APPLICABLE A.A.N. STANDARDS.
 2. THE CONTRACTOR SHALL SUPPLY ALL PLANTS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT LIST. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT LIST AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER NUMBER SHALL APPLY.
 3. ALL PLANTS SHALL BE APPROVED PRIOR TO INSTALLATION AND SHALL BE LOCATED ON SITE BY THE CONTRACTOR, FOR THE APPROVAL OF THE LANDSCAPE ARCHITECT. ANY INSTALLATIONS WHICH WERE NOT APPROVED BY THE LANDSCAPE ARCHITECT AND WHICH ARE SUBSEQUENTLY REQUESTED TO BE MOVED, WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
 4. PRECISE LOCATION OF ITEMS NOT DIMENSIONED ON THE PLAN ARE TO BE FIELD STAKED BY THE CONTRACTOR AND SHALL BE SUBJECT TO THE REQUIREMENTS SPECIFIED IN THE PREVIOUS NOTE.
 5. ALL SHRUB MASSINGS AND TREE PITS SHALL BE MULCHED TO A DEPTH OF 3" WITH SHREDED PINE BARK MULCH.
 6. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED VEGETATION AND SHALL REPLACE OR REPAIR ANY DAMAGE, AT HIS OWN EXPENSE.
 7. ALL SHRUB AND GROUND COVER PLANTING AREAS SHALL HAVE CONTINUOUS BEDS OF TOPSOIL, 12" DEEP.
 8. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES IN THE FIELD. WHERE PLANT MATERIAL MAY INTERFERE WITH UTILITIES, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT TO COORDINATE THEIR INSTALLATION.
 9. PLANTINGS INSTALLED IN THE DRY SUMMER MONTHS AND/OR LAWN SEEDED OUT OF SPRING OR FALL PERIODS, IF ALLOWED BY OWNER, WILL REQUIRE AGGRESSIVE IRRIGATION PROGRAMS AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
 10. SUBSTITUTIONS PERMITTED ONLY UPON WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
 11. PLANT TAGS TO REMAIN ON ALL PLANT MATERIAL UNTIL FINAL ACCEPTANCE. CONTRACTOR TO THEN REMOVE ALL PLANT TAGS.
 12. WHERE A SIZE RANGE IS GIVEN IN THE PLANT SCHEDULE, AT LEAST 50% OF THE PLANTS PROVIDED SHALL BE OF THE LARGER SIZE.
 13. CONTRACTOR TO GUARANTEE ALL PLANT MATERIAL FOR ONE YEAR AFTER DATE OF FINAL ACCEPTANCE.
 14. CONTRACTOR TO MAINTAIN ALL PLANT MATERIAL UNTIL 60 DAYS AFTER FINAL ACCEPTANCE.
 15. TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND NOT COVERED BY OTHER SITE IMPROVEMENTS.
 16. TEMPORARY RESTORATION AREAS TO BE COVERED WITH 6" TOPSOIL, SEEDED AND MULCHED.

THIS PLAN IS FOR SITE RESTORATION PURPOSES ONLY. SEE OVERALL GRADING PLAN AND SITE PLANS FOR SPECIFIC SITE DETAILS.

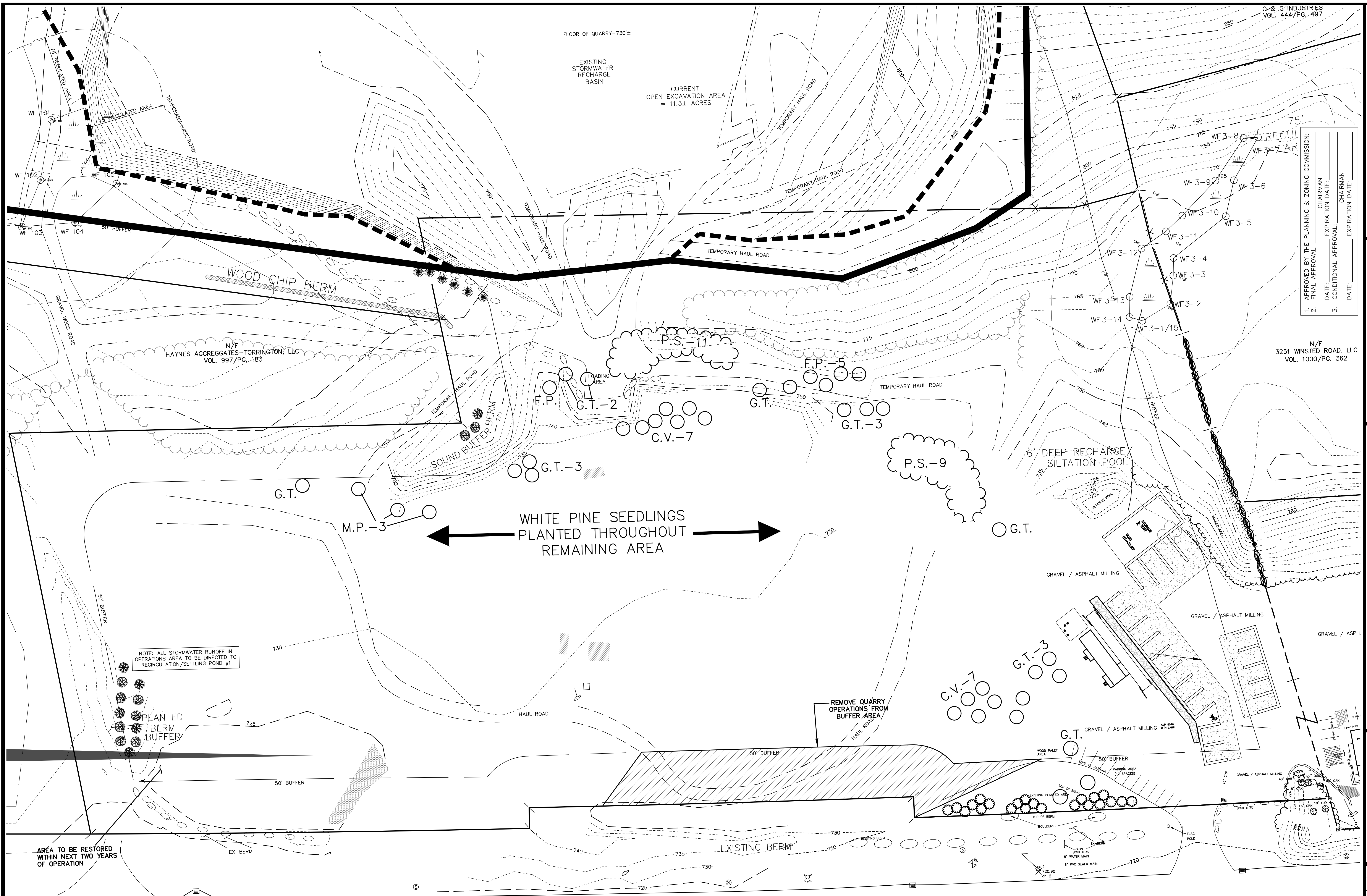
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LANDSCAPE BY SOUTH FARMS NURSERY INC.
 RTE. 63 S./95 OLD MIDDLE ST., P.O. BOX 338/GOSHEN, CT
 DESIGN BY: J. LAPLACA

LANDSCAPE RESTORATION PLAN
 PREPARED FOR
HAYNES AGGREGATES - TORRINGTON, LLC
 3217 WINSTED ROAD
 TORRINGTON, CONNECTICUT

Revision	DATE	DESCRIPTION
06/27/06	06/27/06	RESTORATION UPDATE
07/10/06	07/10/06	EXTENDED BERM WHITE PLANTINGS
09/05/06	07/10/06	CONDITIONS OF APPROVAL
07/10/06	07/10/06	PLANTINGS
11/03/04	11/03/04	REVISION PLANTINGS

Date: 05/19/2006
 Scale: 1" = 100'
 Project No.: 06-0027
 Drawing No.: 060027
 Map No.: 0027
 Sheet: L1



APPROVED BY THE PLANNING & ZONING COMMISSION:
 1. APPROVED: _____ DATE: _____ CHAIRMAN: _____
 2. FINAL APPROVAL: _____ DATE: _____ CHAIRMAN: _____
 3. CONDITIONAL APPROVAL: _____ DATE: _____ CHAIRMAN: _____

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N/F
 3251 WINSTED ROAD, LLC
 VOL. 1000/P.G. 362

LANDSCAPE RESTORATION PLAN
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Date: 05/19/2006
 Scale: 1" = 40'
 Project No.: 06-0027
 Drawing No.: 060027
 Map No.: 0027
 Sheet: L2

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WINSTED ROAD (CONN. RTE. NO. 800)