TOWN OF EAST HARTFORD PLANNING & ZONING COMMISSION APPLICATION FORM

DATE: 7/10/17

Official Receipt Date:					
711017					

No. and the second seco	
1. PAPRUCATIONNAME TO FERVALLE TIMES	PROJECTION ON PAGE 2 OR 3
SITE PLAN APPLICATION	NATURAL RESOURCES REMOVAL AND FILLING
SITE PLAN MODIFICATION	SPECIAL USE PERMIT*
FLOOD HAZARD - MAJOR*	ZONING MAP CHANGE*
FLOOD HAZARD - MINOR*	TEXT AMENDMENT*
SOIL EROSION AND SEDIMENTATION - Cu	mulative disturbed area (sq. ft.):
2. SITEAND PROJECT (NEORMATION	
PROPERTY ADDRESS: 530 MAIN	STREET ZONE: B-Z
ASSESSORS MAP AND LOT: MAP 12	· · · · · · · · · · · · · · · · · · ·
PROJECT NAME: RETAIL STOR	
PROJECT DESCRIPTION (ATTACH ADDITIONAL	SHEETS IF NEEDED):
EXISTING STRUCTURES	60 be REMOVED -
ŧ	L STORK to be CONSTRUCTED.
SER ATTACHED PLAN	' 5
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3. PROPERTY OWNER INFORMATION	GHECK PERMANY CONTACT
OWNER OF RECORD: DANT Ria	
	W W 77500000 (7066V
OWNER PHONE: 203-650 66 89	OWNER EMAIL:
OWNER SIGNATURES	PRINT NAME: RAILS 14 TALA
The undersigned owner hereby authorizes: (1) this East Hartford staff the right to enter upon the prop	application, and (2) the Planning and Zoning Commission and Town of perty for the purposes of inspection associated with this application.
4. APP ISANTINISORMATION	A THE PARTY OF THE PROPERTY OF
CHECK IF APPLICANT IS SAME AS PROPERT	Y OWNER
APPLICANT: ROBERT MANGIA	DO - ARCHITECT
APPLICANT ADDRESS: 131 TALCOT	T NO. GUILFORD CT. 06437
APPLICANT PHONE: 203-938-106	& APPLICANT EMAIL: manginoroberte yahoo com
APPLICANT SIGNATURE: Aut Com	PRINT NAME: POBERT MANGINO
5. DESIGN PROFESSIONAL INFORMATION	AND THE PROPERTY CONTROL
FIRM: ROBERT MANGINO	- PHONE: 203-988-1068
CONTACT PERSON: SAME	EMAIL: manginoroberteyahoo. ou



Allan S. Young, P.E. James H. Galligan, P.E. David L. Nafis, P.E, L.S. Lawrence K, Secor, CHMM

August 1, 2017

Drainage Narrative Site Plan Modifications 524-530 Main Street East Hartford, Connecticut

The above referenced parcel is currently being utilized as a gas station. The proposed Site Plan Modification is to include the addition of a 1,750 s.f. convenience store and some parking area modifications. The majority of the site and parking area will generally remain intact with a few exceptions. The biggest modification to the parking area will be the removal of one of the two curb cuts along Main Street. The pavement in that area will be removed and replaced with landscaping. The net effect of the proposed modifications will reduce the impervious surface by approximately 2.5%. This coupled with the fact the site grading will remain unchanged will reduce the amount of stormwater runoff generated by this site. Even though this meets the requirements of the "Technical Standards for Drainage & Water Quality", this proposal also includes the installation of 56 feet of infiltrators. The infiltrators will be installed underground to store and infiltrate an additional 146 c.f. of stormwater via roof leaders from the proposed convenience store.

If you have any questions, please feel free to contact me.

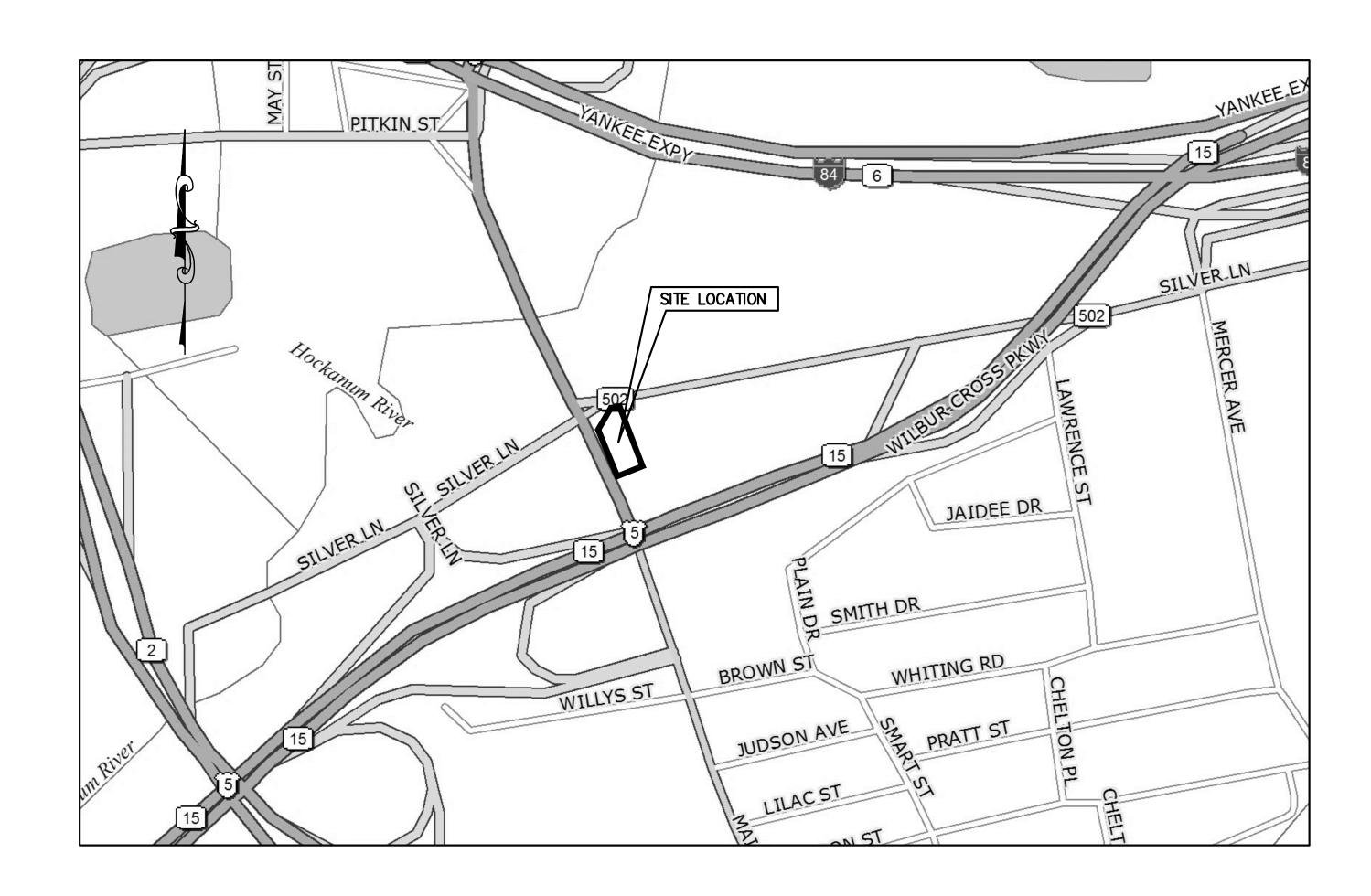
Respectfully submitted,

David L. Nafis, P.F., L.S.

Nafis & Young Engineers

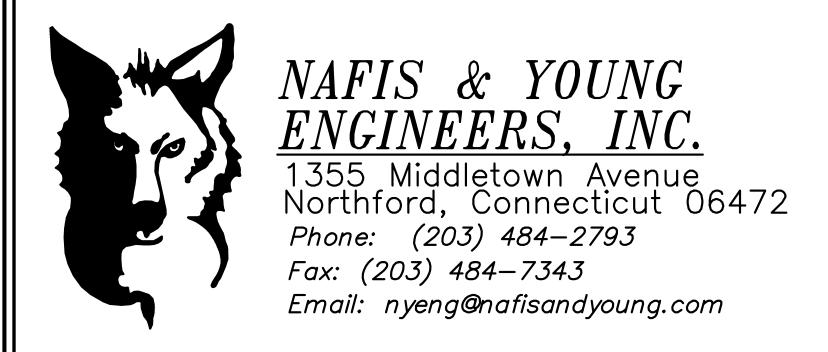


SITE PLAN MODIFICATION PROPOSED CONVENIENCE/FUEL STATION 524-530 MAIN STREET MAP 12 / LOT 99 EAST HARTFORD, CONNECTICUT

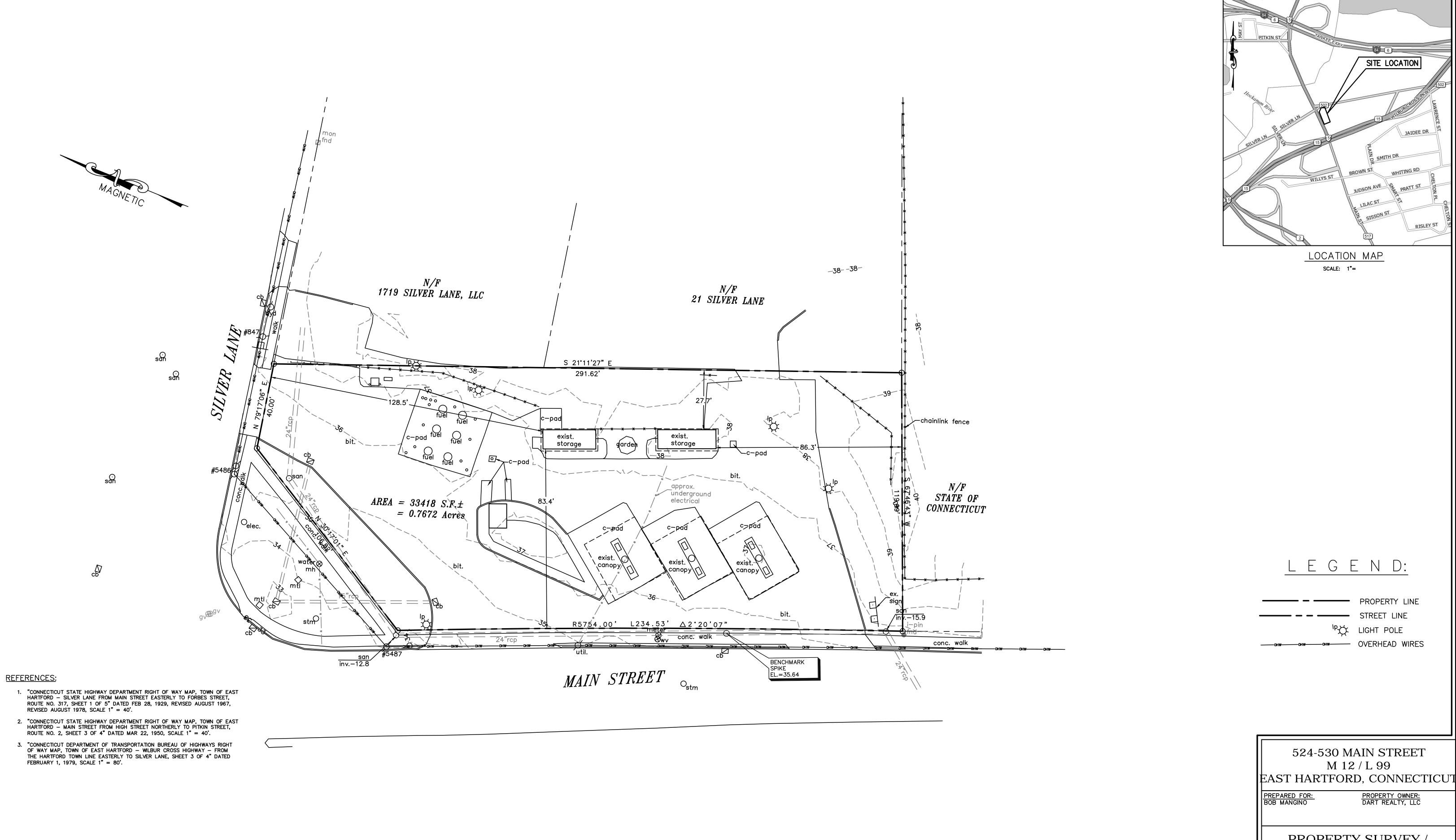


SHEET NO.	INDEX
1	COVER SHEET
2	EXISTING CONDITIONS
3	SITE PLAN, UTILITIES PLAN
3A	IMPERVIOUS REDUCTION
4	GRADING, DRAINAGE, EROSION CONTROL
5	LANDSCAPING PLAN
6	EROSION CONTROL NARRATIVE
7	DETAILS





TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.



LOCATION AND ELEVATION OF UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED IS UNKNOWN AND SHOULD BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION

ANY USE OR REUSE OF ORIGINAL OR ALTERED CADD DESIGN MATERIALS BY THE CLIENT, CONTRACTOR OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF AN AUTHORIZED REPRESENTATIVE OF NAFIS & YOUNG ENGINEERS, INC. SHALL BE AT THE SOLE RISK OF CLIENT, CONTRACTOR, OR OTHER PARTY AGREES TO DEFEND, INDEMNIFY, AND HOLD NAFIS & YOUNG ENGINEERS, INC. HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES AND ATTORNEY'S

PEES ARISING OUT OF THE MODIFICATION

OR REUSE OF THESE MATERIALS.

SURVEY NOTES:

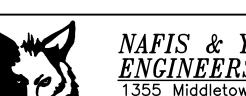
1. This survey and map have been prepared in accordance with Sections 20-300b-1 thru 20-300b-20 of the Regulations of Connecticut State Agencies — "Minimum Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc. It is a PROPERTY SURVEY and DATA ACCUMULATION PLAN based on a DEPENDENT RESURVEY conforming to Horizontal Accuracy Class "A-2" and is intended to be used for a boundary Map.

2. Property is located in the B2 zone.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

Scale 1" = 20'

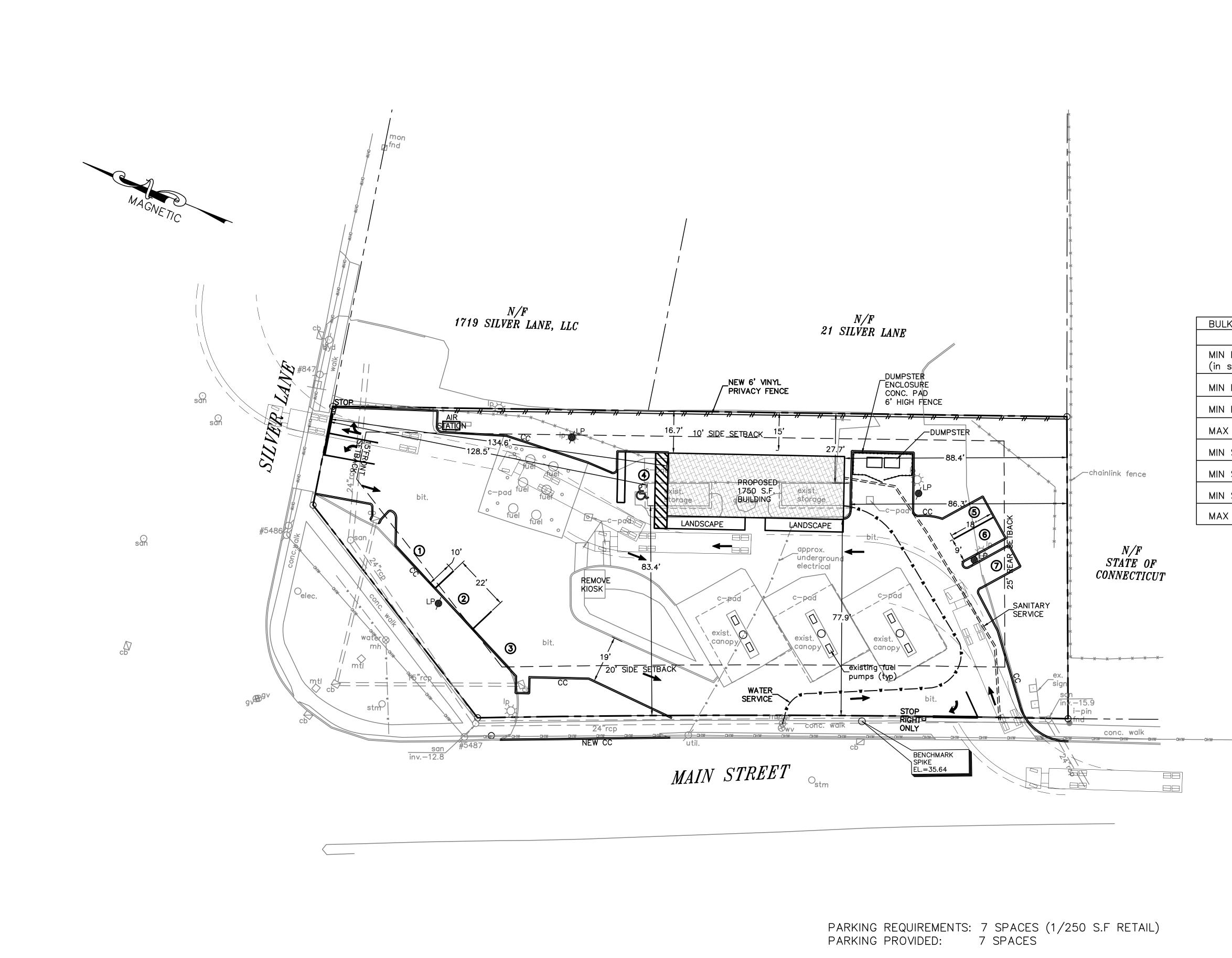
PROPERTY SURVEY / **EXISTING CONDITIONS**

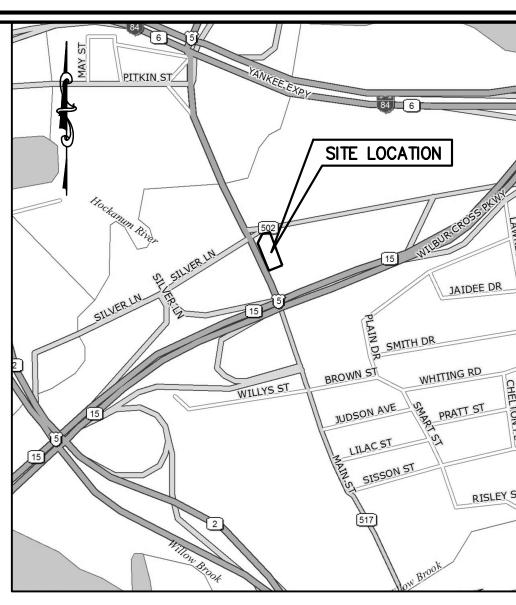


NAFIS & YOUNG ENGINEERS, INC. 1355 Middletown Avenue Northford, Connecticut 06472 Phone: (203) 484-2793 Fax: (203) 484–7343 Email: nyeng@nafisandyoung.com

DATE: MARCH 22, 2017

JOB NO. 2017-025 SHEET NO. 2





LOCATION MAP

SCALE: 1"=800"

BULK STANDARDS B-2 ZONE			
	REGULATION	EXISTING	PROPOSED
MIN LOT AREA (in square feet)	7,500 S.F.	33418 S.F.	33418 S.F.
MIN LOT WIDTH	75'	119.99'	119.99'
MIN FRONTAGE	50'	146.82'	146.82'
MAX HEIGHT BLDG	100'	10'	23'
MIN SETBACK FRONT	50'	128.5'	134.6'
MIN SETBACK REAR	25'	86.3'	88.4'
MIN SETBACK SIDE	15'	27.7'	16.7'
MAX LOT COVERAGE%	75%	66.7%	64.2%

LEGEND:

PROPERTY LINE
STREET LINE
LIGHT POLE
OVERHEAD WIRES

LOT SETBACK

LP

CC
CONCRETE CURBING

VINYL PRIVACY FENCE

524-530 MAIN STREET M 12 / L 99 EAST HARTFORD, CONNECTICUT

PREPARED FOR:

PROPERTY OWNER: DART REALTY, LLC

SITE PLAN / UTILITIES PLAN



NAFIS & YOUNG ENGINEERS, INC. 1355 Middletown Avenue Northford, Connecticut 06472 Phone: (203) 484-2793 Fax: (203) 484-7343 Email: nyeng@nafisandyoung.com

DATE: JUNE 7, 2017 REV: AUGUST 4, 2017

Scale 1" = 20'

JOB NO. 2017-025 SHEET NO. 3

Utility Notes:

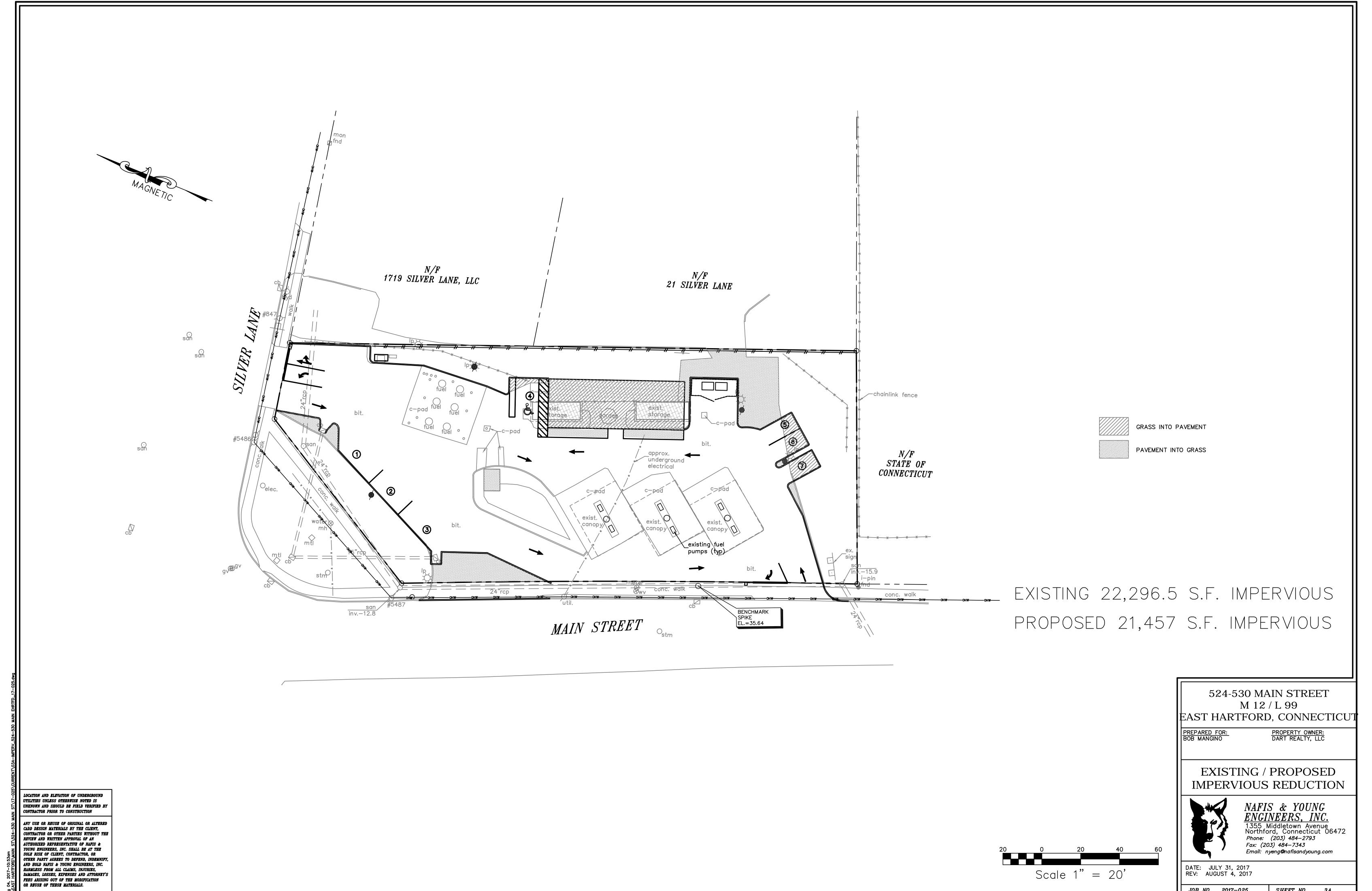
- 1. Sewer connection to be verified and connected as required.
- 2. Test and connect current underground electrical for proposed building.

ANY USE OR REUSE OF ORIGINAL OR ALTERED CADD DESIGN MATERIALS BY THE CLIENT, CONTRACTOR OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF AN AUTHORIZED REPRESENTATIVE OF NAPIS & YOUNG ENGINEERS, INC. SHALL BE AT THE SOLE RISK OF CLIENT, CONTRACTOR, OR OTHER PARTY ACREES TO DEFEND, INDEMNIFY, AND HOLD NAFIS & YOUNG ENGINEERS, INC. HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE MATERIALS.

LOCATION AND ELEVATION OF UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED IS

CONTRACTOR PRIOR TO CONSTRUCTION

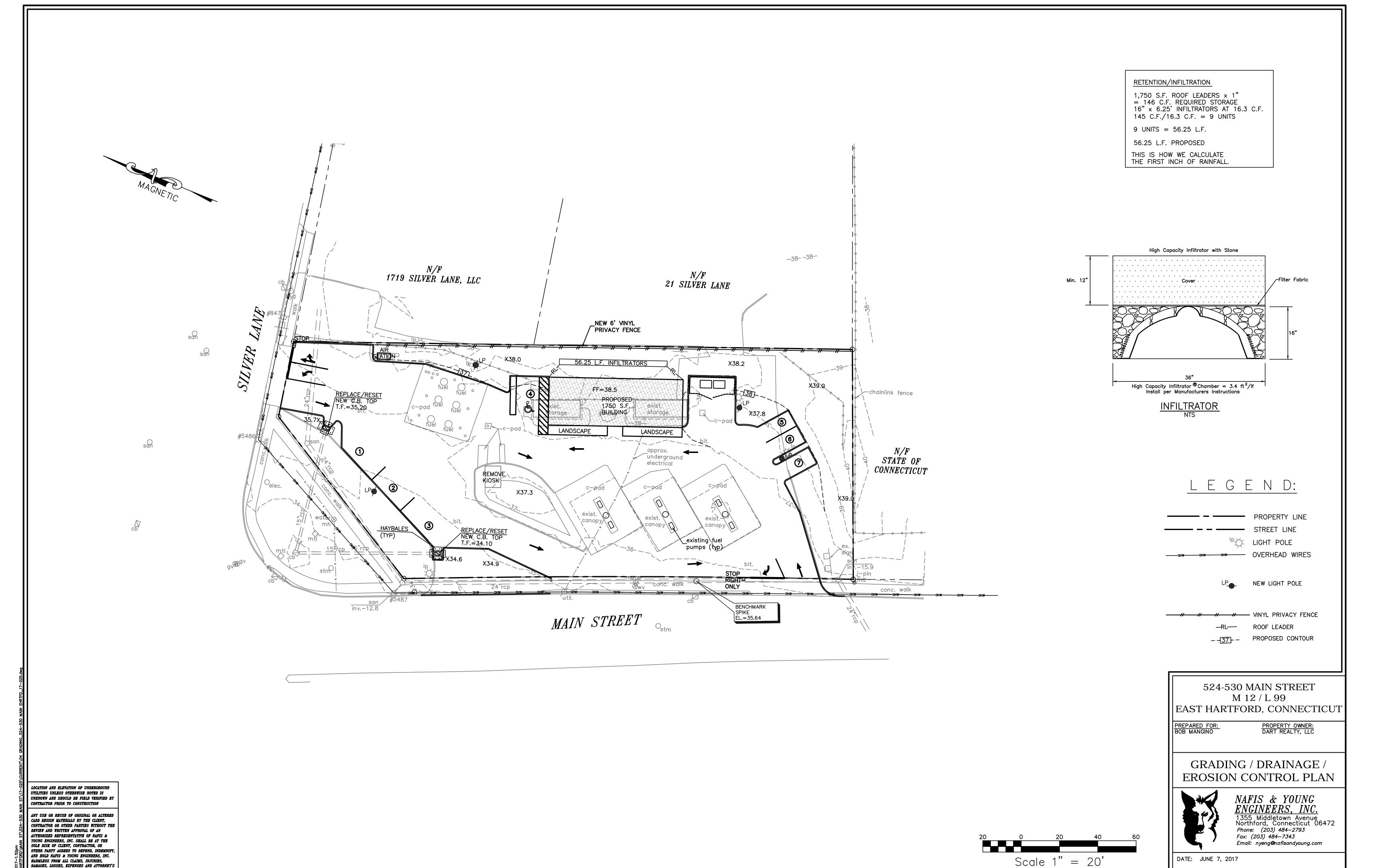
UNKNOWN AND SHOULD BE FIELD VERIFIED BY



Scale 1" = 20'

DATE: JULY 31, 2017 REV: AUGUST 4, 2017

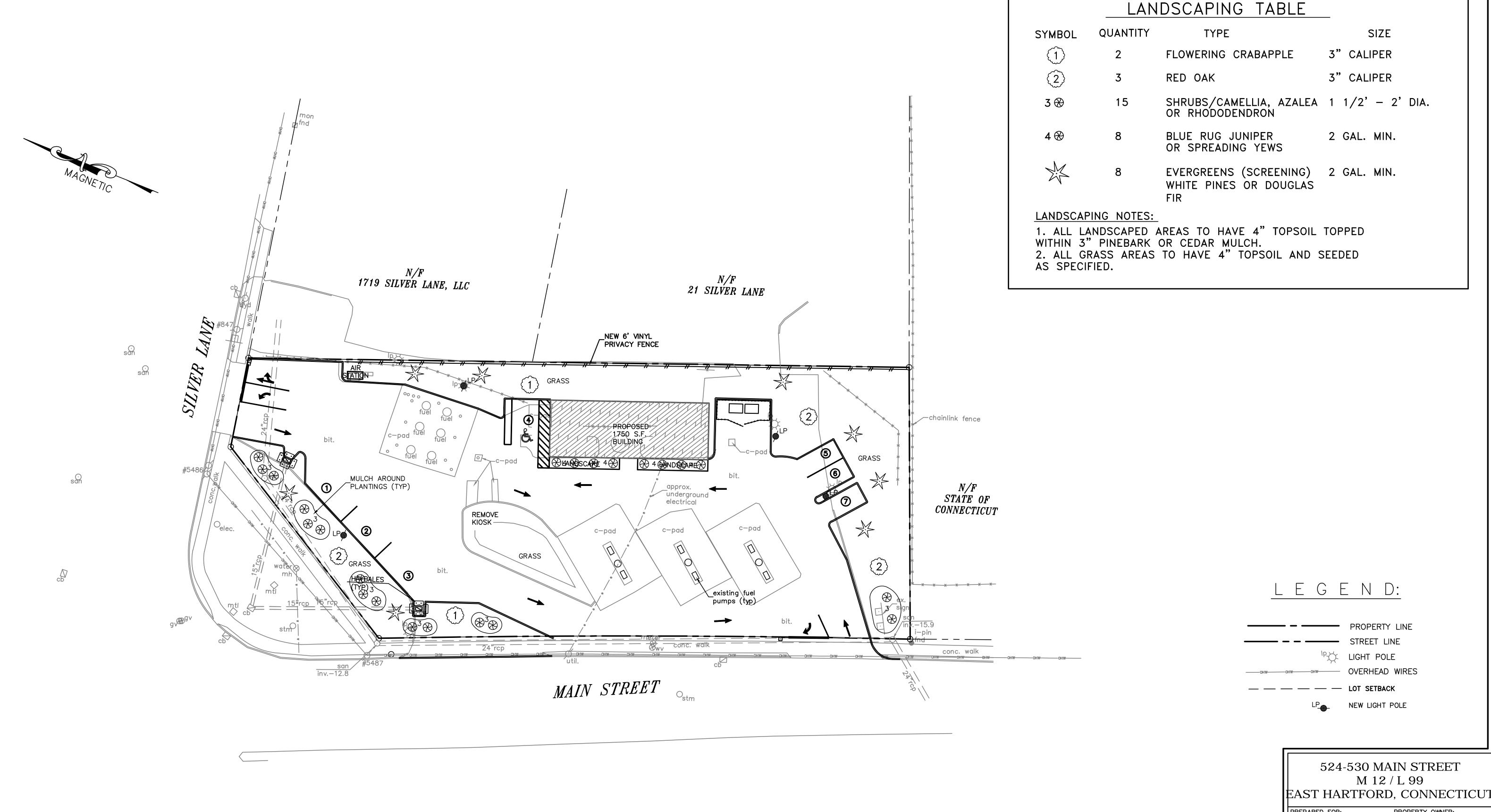
JOB NO. 2017-025 SHEET NO. 3A



HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES AND ATTORNEY'S PEES ARISING OUT OF THE MODIFICATION

DATE: JUNE 7, 2017

JOB NO. 2017-025 SHEET NO.



LOCATION AND ELEVATION OF UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED IS UNKNOWN AND SHOULD BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION

ANY USE OR REUSE OF ORIGINAL OR ALTERED CADD DESIGN MATERIALS BY THE CLIENT, CONTRACTOR OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF AN AUTHORIZED REPRESENTATIVE OF NAPIS & YOUNG ENGINEERS, INC. SHALL BE AT THE SOLE RISK OF CLIENT, CONTRACTOR, OR OTHER PARTY AGREES TO DEFEND, INDEMNIFY, AND HOLD NAPIS & YOUNG ENGINEERS, INC. HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION

20 0 20 40 60 Scale 1" = 20' PREPARED FOR: BOB MANGINO PROPERTY OWNER: DART REALTY, LLC

LANDSCAPING PLAN



NAFIS & YOUNG ENGINEERS, INC. 1355 Middletown Avenue Northford, Connecticut 06472 Phone: (203) 484–2793 Fax: (203) 484–7343 Email: nyeng@nafisandyoung.com

DATE: JUNE 7, 2017

JOB NO. 2017-025 SHEET NO.

ALL CONSTRUCTION ACTIVITIES INVOLVING THE REMOVAL OR DISTURBANCE OF SOILS ARE TO BE PROVIDED WITH APPROPRIATE PROTECTIVE MEASURES TO MINIMIZE EROSION AND CONTAIN SEDIMENT DISPOSITION WITHIN THE AREA UNDER DEVELOPMENT. THE MINIMUM STANDARD FOR INDIVIDUAL MEASURES HALL BE THOSE OUTLINED IN THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL' 1985 EDITION AS AMENDED TO DATE. THOSE METHODS DEEMED MOST EFFECTIVE FOR THIS PROJECT ARE DESCRIBED HEREIN.

B. CONTINGENCY PLAN

AS A PRECAUTIONARY MEASURE THE CONTRACTOR SHALL AT ALL TIMES KEEP AT
LEAST TWO ONE HUNDRED FOOT ROLLS OF SEDIMENTATION FENCE & 20 HAYBALES STOCKPILED
ON SITE WHICH SHALL BE AVAILABLE FOR UNFORSEEN EROSION OR SEDIMENT
CONTROL PROBLEMS SHOULD ANY ARISE. THE CONTRACTOR SHALL
IMMEDIATELY INSTALL THE SEDIMENT FENCE DOWN SLOPE SO AS TO CONTAIN ANY
SEDIMENT. THE CONTRACTOR SHALL THEN PROMPTLY CONTACT THE DESIGN ENGINEER
TO DETERMINE IF FURTHER CORRECTIVE ACTION IS REQUIRED. THE DESIGN ENGINEER,
AFTER CONSULTATION WITH THE ZONING/WETLANDS ENFORCEMENT OFFICER SHALL
THEN WESTENCT THE CONTRACTORS TO WHAT ADDITIONAL MEASURES ARE DEFLICED NECESSARY. THEN INSTRUCT THE CONTRACTOR AS TO WHAT ADDITIONAL MEASURES ARE DEEMED NECESSARY

C. GENERAL GUIDELINES-EROSION CONTROL

- 1. OTHER THAN CONTRUCTION SPECIFICALLY SHOWN ON THESE APPROVED PLANS, NO ACTIVITIES SHALL BE CONDUCTED WITHIN DESIGNATED WETLAND AREAS, WATERCOURSES, FLOOD PLAINS OR WITHIN CHANNEL ENCROACHMENT LINES WITHOUT THE PRIOR APPROVAL OF THE PLANNING AND ZONING COMMISSION AND INLAND WETLANDS COMMISSION.
- 2. WHEREVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PRO-
- ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION.
- 4. PRIOR TO THE START OF CONSTRUCTION, TEMPORARY BALED HAY EROSION CHECKS, SEDIMENTATION FENCES AND OTHER APPROVED SEDIMENT CONTROL MEASURES SHALL BE IN PLACE WHERE SHOWN ON THESE PLANS AND AT OTHER LOCATIONS WHERE DEEMED NECESSARY.
- 5. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE PERIOD OF EXPOSURE SHALL BE KEPT TO A MINIMUM, INSTALLING PERMANENT AND FINAL VEGETAT— ION, STRUCTURES, ETC. AT THE EARLIEST POSSIBLE OPPORTUNITY.
- 6. CONSTRUCTION EQUIPMENT SHALL NOT UNNECESSARILY CROSS LIVE STREAMS EXCEPT BY MEANS OF BRIDGES, CULVERTS OR OTHER APPROVED MEANS. AND BE MAINTAINED REGULARLY IN PROPER FUNCTIONING CONDITION, UNTIL ALL AREAS EXPOSED DURNG SITE CONSTRUCTION HAVE BEEN SUITABLY STABILIZED WITH PAVEMENT, PERMANENT STRUCTURES AND/OR FINAL VEGETATIVE COVER.
- 8. CUT AND FILL SLOPES SHALL NOT BE STEEPER THAN 2:1 UNLESS STABIL-IZED BY A GEOTEXTILE MAT.
- 9. ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATER FROM DAMAGING THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF
- 10. FILL SHALL BE PLACED AND COMPACTED SO AS TO MINIMIZE SLIDING OR EROSON OF THE SOIL.

- TO INTERCEPT AND RETAIN SMALL AMOUNTS OF SEDIMENT FROM DISTURBED OR UNPROTECTED AREAS OF LIMITED EXTENT.
- 2. MATERIALS AND INSTALLATION

SEDIMENT BARRIERS MAY CONSIST OF FILTER FENCE OR STRAW OR HAY BALES, STONE BERMS, OR OTHER FILTER MATERIALS. PLANNED LIFESPAN OF SEDIMENT BARRIERS VARIES. STRAW OR HAY BALES SHOULD ONLY BE USED AS A TEMPORARY BARRIER FOR NO LONGER THAN 60 DAYS. SYNTHETIC FILTER FENCES CAN BE USED FOR 60 DAYS OR LONGER DEPENDING ON ULTRAVIOLET STABILITY AND MANUFACTURER'S RECOMMENDATIONS. STONE BARRIERS CAN BE USED FOR LONGER PERIODS OF TIME.

A. STRAW/HAY BALES

- 1. SHEET FLOW APPLICATIONS
- a. BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
- b. ALL BALES SHALL BE EITHER WIRE—BOUND OR STRING—TIED. BALES SHALL BE INSTALLED SO THAT BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES TO PREVENT DETERIORATION OF THE BINDINGS.
- G. THE BARRIER SHALL BE ENTRENCHED AND BACKFILLED.
 A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE
 AND THE LENGTH OF THE PROPOSED BARRIER TO A
 MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE
 STAKED AND CHINKED, THE EXCAVATED SOIL SHALL BE
 BACKFILLED AGAINST THE BARRIER. BACKFILL SOIL SHALL
 CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE
 AND SHALL BE BUILT UP TO 4 INCHES AGAINST THE
- d. EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. STAKES OR REBARS SHALL BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES.
- e. THE GAPS BETWEEN BALES SHALL BE CHINKED (FILLED BY WEDGING) WITH STRAW TO PREVENT WATER FROM ESCAPING BETWEEN THE BALES. (LOOSE STRAW SCATTERED OVER THE AREA IMMEDIATELY UPHILL FROM A STRAW BALE BARRIER TENDS TO INCREASE BARRIER EFFICIENCY.)
 IN SLOPING AREAS WHERE SURFACE FLOW FOLLOWS THE
 BALE LINE, PERPENDICULAR BALE CHECKS SHALL BE
 INSTALLED AT APPROPRIATE INTERVALS (100 FEET
- f. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 9. BALE BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

2. CHANNEL FLOW APPLICATIONS

- a. BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY
- b. The remaining steps for installing a bale barrier for sheet flow applications apply here, with the following addition.
- c. THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT LADEN RUNOFF WILL FLOW
- a. INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY
- b. CLEANOUT OF ACCUMULATED SEDIMENT BEHIND THE BALES IS NECESSARY IF 1/2 OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED IN WITH SEDIMENT.

B. FILTER FENCES

1. <u>Materials</u> a. Synthetic fiber filter fabric

SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER, OR POLY
ETHYLENE FILAMENTS AND SHALL BE CERTIFIED BY MANUFACTURER OR SUPPLIER AS CONFORMING TO THE

<u>PHYSICAL PROPERTY</u> <u>REQUIREMENTS</u> FILTERING EFFICIENCY 75% (MIN.) EXTRA STRENGTH 50 LBS./LIN. IN.

STANDARD STRENGTH-30 LBS./LIN. IN. (MIN.) FLOW RATE 0.3 GAL./SQ. FT./MIN.

b. NATURAL FIBER FILTER FABRIC BURLAP SHALL BE 10 OUNCE PER SQUARE YARD FABRIC. POSTS FOR FILTER FENCES SHALL BE EITHER 2X3 OR 2X4 INCH STUDS OR 0.5 POUNDS (MINIMUM) PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEEL STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM. STAKES FOR FILTER FENCE SHALL BE 1"X2" WOOD OR EQUIVALENT METAL WITH MINIMUM LENGTH OF 3 FFFT.

WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT, A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES. SOME SILT FENCES DO NOT REQUIRE A WIRE BACKING. CONSULT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION REQUIREMENTS.

- THIS SEDIMENT BARRIER UTILIZES BURLAP OR STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS IS EXPECTED. IN SPECIAL CASES BURLAP WAY BE USED IN DEPARTMENT.
- a. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES (HIGHER BARRIERS MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE). THE FILTER FENCE SHALL BE PLACED 10 FEET AWAY FROM THE TOE OF THE SLOPE, OR AS SHOWN
- b. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.
- 2. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL BE AS MANUFACTURER BECONNESSIOS
- d. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF
- e. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST I INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES BELOW THE ORIGINAL GROUND SURFACE.
- 1. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED, WIRED OR TIED TO THE WIRE FENCE, AND 8 INCHES OF FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING THESE
- g. WHEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED, WIRED, OR TIED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 1 APPLYING.
- h. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
- FILTER BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

3. <u>Maintenance</u>

- FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL
- b. Should the fabric decompose or become defective prior to the end of the expected usable life and the barrier still be necessary, the fabric shall be replaced promptly.
- C. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE—HALF THE HEIGHT OF THE
- d. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

<u>E. LAND GRADING</u>

TO RESTORE AREA UPON COMPLETION OF SEWER INSTALLATION.

2. <u>INSTALLATION REQUIREMENTS</u>

- A. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
- ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN.
- C. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
- D. AREAS TO BE FILLED SHALL BE CLEANED, GRUBBED AND STRIPPI OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, OR OTHER
- AREAS ARE TO BE TOPSOILED IN ACCORDANCE WITH TOPSOILING ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.
- C. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED EIGHT INCHES IN THICKNESS.
- I. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- J. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION.
- K. WHERE SEEPS OR SPRINGS ARE ENCOUNTERED DURING CONSTRUCTION SUBSURFACE DRAINAGE SHALL BE PROVIDED.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

3. <u>MAINTENANCE</u>

ALL STRUCTURAL, NONSTRUCTURAL AND VEGETATIVE SEDIMENT AND EROSION CONTROL PRACTICES IMPLEMENTED DURING LAND GRADING OPERATIONS SHALL BE MAINTAINED ACCORDING TO REQUIREMENTS OUTLINED ON THIS PLAN.

F. TOPSOILING

PURPOSE
TO PROVIDE A SUITABLE GROWTH MEDIUM FOR FINAL SITE STABILIZATION WITH VEGETATION.

2. <u>INSTALLATION REQUIREMENTS</u>

- SITE INVESTIGATIONS SHALL BE MADE TO DETERMINE IF THERE IS SUFFICIENT TOPSOIL OF GOOD QUALITY TO USE FOR SITE RESTORATION. HIGH QUALITY TOPSOIL SHALL BE FRIABLE AND LOAMY (LOAM, SANDY HIGH QUALITY TOPSOIL SHALL BE FRIABLE AND LOAMY (LOAM, SANDY LOAM, SILT LOAM, SANDY CLAY LOAM, CLAY LOAM). OTHER SOIL TIPES 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. ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY TO DETERMINE THE PROPER APPLICATION RATES FOR LIME AND FERTILIZER.
- B. STRIPPING
- STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. A 4 TO 6 INCH STRIPPING DEPTH IS COMMON, BUT DEPTH MAY VARY DEPENDING ON THE PARTICULAR SOIL. ALL PERIMETER DIKES, BASINS, AND ANY OTHER SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO STRIPPING.
- TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFF—SITE SEDIMENT DAMAGE SHALL RESULT D. SIDE SLOPES
- SIDE SLOPES OF THE STOCKPILE SHALL NOT EXCEED 2 TO 1 (2 HORIZONTALLY TO 1 VERTICALLY). SEDIMENT BARRIER
- A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.
- TEMPORARY SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF THE STOCKPILE, IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE COVER REQUIREMENTS. G. SITE PREPARATION

BEFORE TOPSOILING, ESTABLISH NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, WATERWAYS, SEDIMENT BASINS, ETC. THESE

- PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE APPROVED PLANS.
- WHERE THE PH OF THE SUBSOIL IS 6.0 OR LESS, GROUND AGRICULTURAL LIMESTONE SHALL BE SPREAD IN ACCORDANCE WITH THE SOIL TEST OR THE VEGETATIVE ESTABLISHMENT PRACTICE BEING
- AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISCING OR SCARIFYING TO A DEPTH OF AT LEAST 2 INCHES TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.
- TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY MET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING, THE TOPSOIL SHALL BE UNIFORMLY DISTURBED TO A MINIMUM COMPACTED DEPTH OF 4 BE UNIFORMET DISTURBED TO A MINIMOUN COMPACTED DEPTH OF 4 INCHES, ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. IT IS NECESSARY TO COMPACT THE SOIL ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL AND TO OBTAIN A UNIFORM FIRM SEEDBED FOR THE ESTABLISHMENT OF A HIGH QUALITY TURF. HOWEVER, UNDUE COMPACTION IS TO BE AVOIDED AS IT INCREASES RUNOFF VELOCITY AND VOLUME, AND PREVENTS SEED GERMINATION

G. TEMPORARY MULCHING

K. APPLYING TOPSOIL

- TO PREVENT EROSION BY PROTECTING THE EXPOSED SOIL SURFACE AND TO AID IN THE GROWTH OF VEGETATION BY CONSERVING AVAILABLE MOISTURE
- 2. <u>INSTALLATION REQUIREMENTS</u>
- A. ORGANIC MULCHES
 ORGANIC MULCHES MAY BE USED IN ANY AREA WHERE MULCH IS
 REQUIRED, SUBJECT TO THE RESTRICTIONS NOTED IN THE TABLE
 BELOW.

ORGANIC MULCH MATERIALS AND APPLICATION RATES

_	RATES	
MULCHES	PER ACRE / PER 1000FT ²	NOTES
MULCHES OR HAY	1 1/2- 2 TONS / 70-90 LBS	FREE FROM WEEDS AND HAY MATTER. MUST BE ANCHORED. SPREAD WIT MULCH BLOWER OR BY
WOOD FIBER	1000- 2000 LBS./ 25-50 LBS.	FIBERS 4mm OR LONGE NOT USE ALONE IN WIN

INCH LENGTHS. AIR DRIED. DO NOT USE IN FINE TURF AREAS. APPLY WITH MULCH

CORN STALKS 4-6 TONS / 185-275 LBS.

FREE OR COARSE MATTER. AIR DRIED. TREAT MITH 12 LBS. NITROGEN PER TON. DO NOT USE IN FINE TURF AREAS. APPLY WITH MULCH 4–6 TONS / 185–275 LBS. BLOWER, CHIP HANDLER, OR BY

FREE OR COARSE MATTER. AIR DRIED. DO NOT USE IN FINE TURF AREAS. APPLY WITH MULCH BLOWER, CHIP HANDLER, OR BY HAND. B. <u>MATERIALS</u>

- SELECT MULCH MATERIAL BASED ON SITE CONDITIONS, AVAILABILITY OF MATERIALS, AND LABOR AND EQUIPMENT. OTHER MATERIALS MAY BE USED ONLY WITH THE PERMISSION OF THE APPROVING AUTHORITY. C. <u>PRIOR TO MULCHING</u>
- COMPLETE THE REQUIRED GRADING AND INSTALL NEEDED SEDIMENT CONTROL MEASURES.
- D. <u>APPLICATION</u> MULCH MATERIALS SHALL BE SPREAD UNIFORMLY, BY HAND OR MACHINE. WHEN SPREADING STRAW OR HAY MULCH BY HAND, DIVIDE THE AREA TO BE MULCHED INTO APPROXIMATELY 1,000 SQUARE FOOT SECTIONS AND PLACE 70-90 POUNDS (1 1/2 TO 2 BALES) OF STRAW OR HAY IN EACH SECTION TO ENSURE UNIFORM DISTRIBUTION.
- 3. MAINTENANCE
- ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR EROSION. WHERE EROSION IS OBSERVED, ADDITIONAL MULCH SHOULD BE APPLIED. NETS SHOULD BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, RE—INSTALL NET AS NECESSARY AFTER REPAIRING DAMAGE THE SLOPE. INSPECTIONS SHOULD TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. GRASSES SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS. WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE; REPAIR AS NEEDED.

PERMANENT VEGETATIVE COVER

- TO PERMANENTLY STABILIZE THE SOIL, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF AND TO ENHANCE THE ENVIRONMENT.
- 2. INSTALLATION REQUIREMENTS A. <u>SITE PREPARATION</u>
- GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE PLANS.
- B. <u>SEEDED PREPARATION</u> 1. 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 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 USING 10-10-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS OF
 38-0-0 FERTILIZER PER ACRE OR EQUILALENT OF SLOW RELEASE NIT—
 ROCEN MAY BE USED FOR TOPORFSSING APPLY LIMESTIME (FOULVE-

ROGEN MAY BE USED FOR TOPDRESSING. APPLY LIMESTONE (EQUIV-ALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS. TONS/AC. LBS./1000 SQ. FT. SOIL TEXTURE CLAY, CLAY LOAM AND HIGH

- REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITES. 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 UNITL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAYEY, SILTY SOILS, OR COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
- 3. 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. 4. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

- SEEDING DATES SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED MIXES WITH LEGUMES IS RECOMMENDED, HOWEVER LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 1 CAN BE MADE. WHEN CROWN VETOH IS SEEDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). THE RECOMMENDED SEEDING DATES ARE:
- APRIL 1 THROUGH JUNE 1 AUGUST 15 THROUGH SEPTEMBER WITH THE EXCEPTION OF CROWN VETCH, THE FINAL SEEDING DATE MAY BE EXTENDED 15 DAYS.
- 1. THE SEED MIXTURE SHALL BE AS INDICATED IN THE SPECIFICATIONS APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY IN-CLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE.
- 3. WHEREVER FEASIBLE, EXCEPT WHERE EITHER A CULTIPACKER 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
- 4. FROST CRACK SEEDING CAN BE USED. FROST CRACK SEEDING MUST BE DONE IN LATE WINTER OR EARLY SPRING. SUITABLE WEATHER CONDITIONS ARE FREEZING NIGHTS AND THAWING DAYS WITH LITTLE OR NO SNOW COVER. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN USING THIS METHOD. 5. HYDRAULIC APPLICATION (HYDROSEEDING), IS A SUITABLE METHOD FOR USE IN CRITICAL AREAS. WHEN HYDROSEEDING, A SEEDBED IS PREPARED IN THE CONVENTIONAL WAY OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN SI 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 THE FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). FIBER MULCH DOES NOT PROVIDE ADEQUATE SEEDBED PROTECTION. BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN HYDROSEEDING.
- 6. APPLY MULCH ACCORDING TO TEMPORARY MULCHING
- 7. IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE TEMPORARY MULCHING MEASURES TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

TEMPORARY VEGETA TIVE COVER

- TO TEMPORARILY STABILIZE THE SOIL AND REDUCE DAMAGE FROM WIND AND/OR WATER EROSION. 2. INSTALLATION REQUIREMENTS
- A. SITE PREPARATION

 (1) SITE PREPARATION SHOULD BE CONDUCTED IN ACCORDANCE WITH THE MEASURE FOR LAND GRADING.

 B. SEEDBED PREPARATION APPLY LIMESTONE AND FERTILIZER IN ACCORDANCE WITH PROCEDURES OUTLINED IN TOPSOLING SECTION.

 C. SEFINING
- IN TOPSOILING SECTION.

 C. SEEDING

 (1) SELECT SEED FROM SPECIFICATIONS.

 (2) WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER LIME AND SEED.

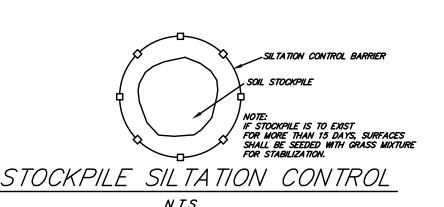
 (3) APPLY SEED/MULCH UNIFORMLY AS INDICATED IN PERMANENT VEGETATIVE COVER SECTION.
- (4) SEEDING MAY BE DONE FROM MAR.1 OCT.15. IRRIGATE AS REQUIRED DURING DRY PERIODS. . DUST CONTROL

2. INSTALLATION REQUIREMENTS

- TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, AND REDUCE THE PRESENCE OF DUST WHICH MAY CAUSE OFF SITE DAMAGE, BE A HEALTH HAZARD TO HUMANS, WILDLIFE AND PLANTLIFE, OR REDUCE TRAFFIC SAFETY HAZARD.
- A. <u>WATER</u> THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
- COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. IN AREAS ADJACENT TO WATERWAYS, USE CHEMICALLY STABLE AGGREGATE.

WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE TREATMENT SHALL BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL. K. INSPECTION

THE TOWN WILL MAINTAIN A FULL TIME INSPECTION SCHEDULE DURING CONSTRUCTION ACTIVITIES. THE ENGINEER SHALL INSPECT AND ENFORCE ALONG WITH THE TOWN.



To be installed at all affected catch basins prior to beginning work in paved areas. Upon completion of construction, catch basins shall be all the constructions of the construction of the construction.

2. Basins on sloping roads should not be ringed. Bales or silt fence should be placed in a configuration to contain flows without "end runs". Containments should be up slope

SILT FENCE

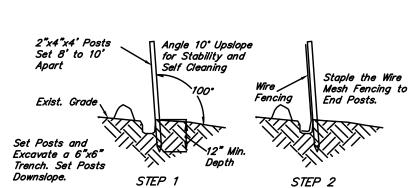
STRAW BALES

FOR CATCH BASINS ON EARTH

cleaned of all sediment.

in Place Until Paving Operations Have Started

Anchor with two 2"x2"x3' Stakes -



FOR CATCH BASINS ON PAVEMENT

STRAW BALES

LESS THAN OR EQUAL TO 3% GRADE

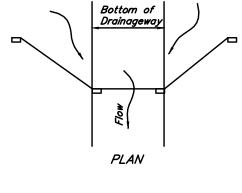
STRAW BALES

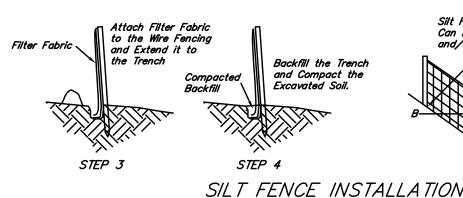
LESS THAN OR EQUAL TO 3% GRADE

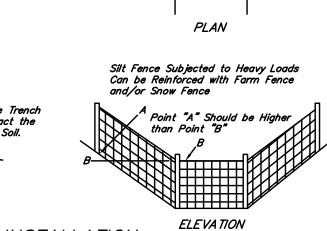
FOR TYPE "C-L" CATCH BASINS

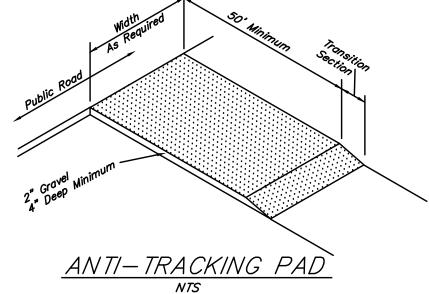
CATCH BASIN - SEDIMENTATION BARRIER DETAILS

FOR TYPE "C" CATCH BASIN

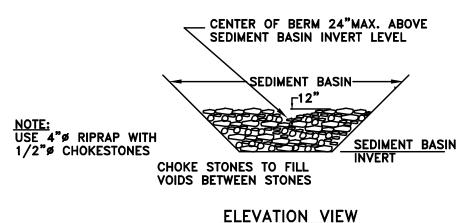


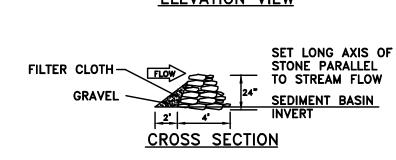




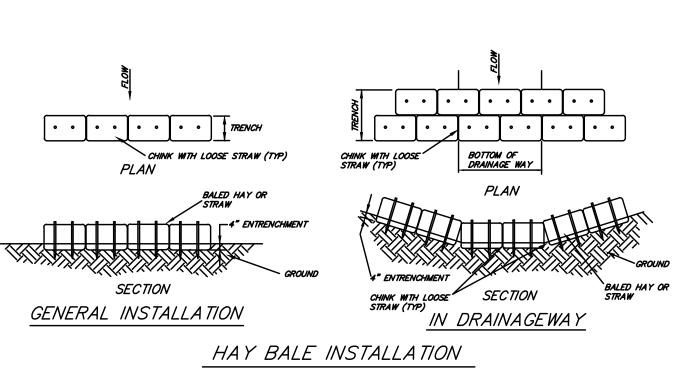


- 1. STONE SIZE USE MSHA SIZE NO. 2 (2-1/2" TO 1") OR AASHTO DESIGNATION
- M43, SIZE NO. 2 (2-1/2" TO 1-1/2"). USE CRUSHED STONE.
- 2. LENGTH AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
- 3. THICKNESS NOT LESS THAN 8 INCHES. 4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS. 5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT
- PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
- 6. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.





RIPRAP FILTER BERM N.T.S.



STRAW BALES

FOR TYPE "C" CATCH BASINS

GREATER THAN 3% GRADE

FOR TYPE "C-L" CATCH BASINS

GREATER THAN 3% GRADE

Anchor with one— 2"x2"x3' Transverse Stake in Each Bale.

EARTH - SEDIMENTATION BARRIER DETAIL

SOIL EROSION AND SEDIMENTATION CONTROL

524-530 MAIN STREET EAST HARTFORD, CONNECTICUT ENGINEERS, INC.

<u>355 Middletown Avenue</u> Northford, Connecticut 06472 Phone: (203) 484-2793 Fax: (203) 484-7343 Email: nyeng@nafisandyoung.com

NAFIS & YOUNG

OR REUSE OF THESE MATERIALS.

YOUNG ENGINEERS, INC. SHALL BE AT THE SOLE RISK OF CLIENT, CONTRACTOR, OR OTHER PARTY AGREES TO DEFEND, INDEMNIFY, AND HOLD NAFIS & YOUNG ENGINEERS, INC. HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES AND ATTORNEY'S PRRS ARISING OUT OF THE MODIFICATION

AUTHORIZED REPRESENTATIVE OF NAFIS &

CONTRACTOR OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF AN

CADD DESIGN MATERIALS BY THE CLIENT.

LOCATION AND ELEVATION OF UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED IS

UNKNOWN AND SHOULD BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION

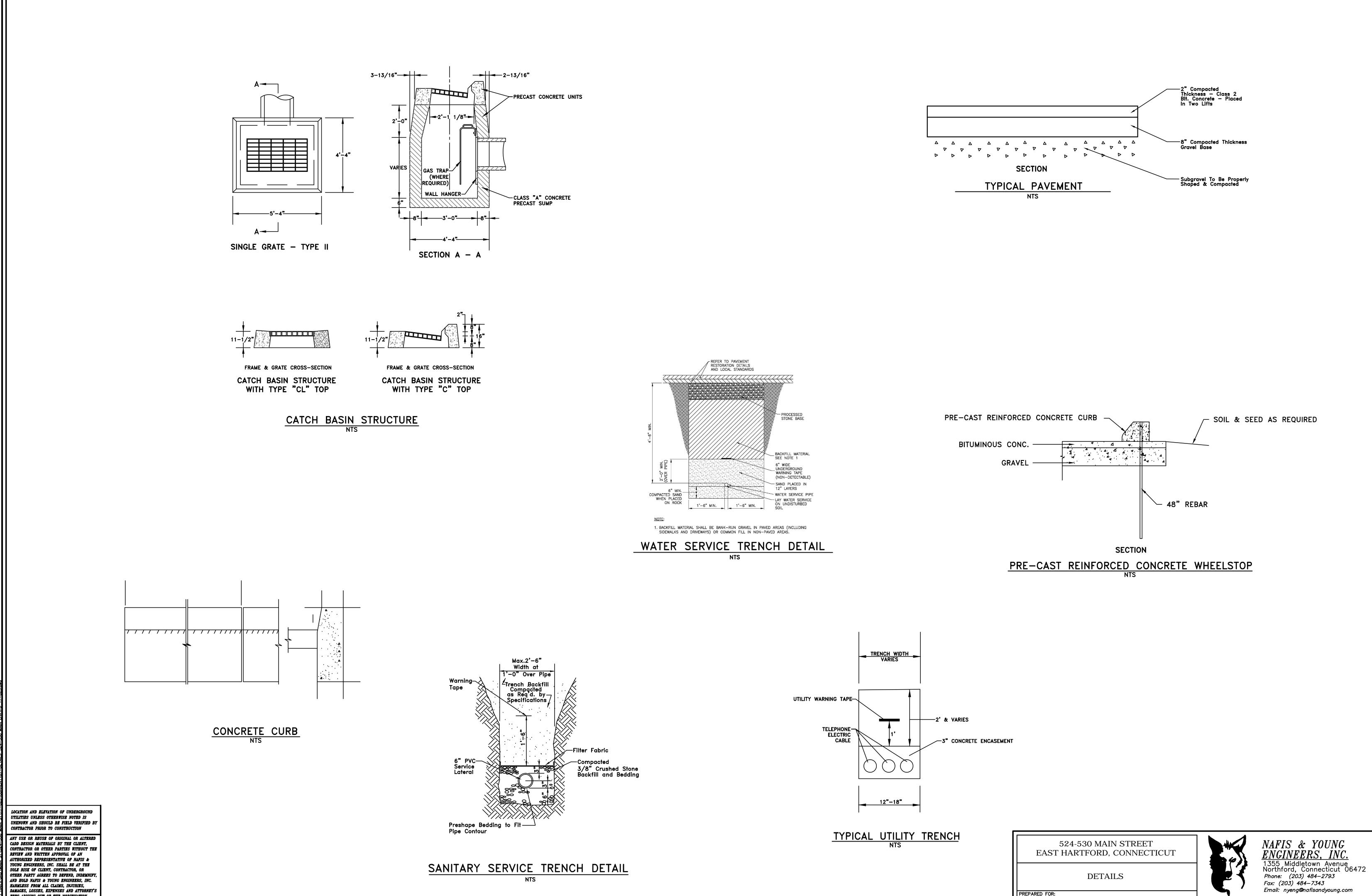
ANY USE OR REUSE OF ORIGINAL OR ALTERED

PREPARED FOR:
DART REALTY, LLC

JUNE 7, 2017

JOB NO. 17-025

SHEET NO.



SHEET NO.

JOB NO. 17-025

JULY 25, 2017

HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	SL	5	AVA-3-150PSMH	AVALUME	CLEAR HORIZONTAL 150PSMH RATED FOR 12500 LUMENS	AVA-3- 150P.IES	12500	0.75	185
	CANOP	18	TLED-C-48-VS-P	12"SQ. X 2-1/2"H. LED PERFORMANCE CANOPY LEDS WITH BUBBLE OPTICS		TLED-C-48-VS- P.IES	Absolute	0.90	54.96
	DL	7	P4RD10NZ10UVB- P4RD835VB- P4RDCL	LYTEPROFILE 4" LED DOWNLIGHT CLEAR FINISH	LED 1048 ABSOLUTE LUMENS 80-CRI 3500K	P4RD10NZ10U VB- P4RD835VB-	Absolute	0.90	11.1

STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	5.1 fc	23.1 fc	0.1 fc	231.0:1	51.0:1

