SITE IMPROVEMENT PLAN NORTH WOODS VILLAGE PLANNED RESIDENTIAL DEVELOPMENT

25 COLONIAL DRIVE KILLINGLY, CONNECTICUT

PREPARED FOR

CANTERBURY HOLDINGS, LLC

18 GAVIN WAY
LISBON, CONNECTICUT 06351

PROPERTY

25 COLONIAL DRIVE KILLINGLY, CT 06241 PARCEL: #113-029-006 MBL: 113-29.6

ZONE

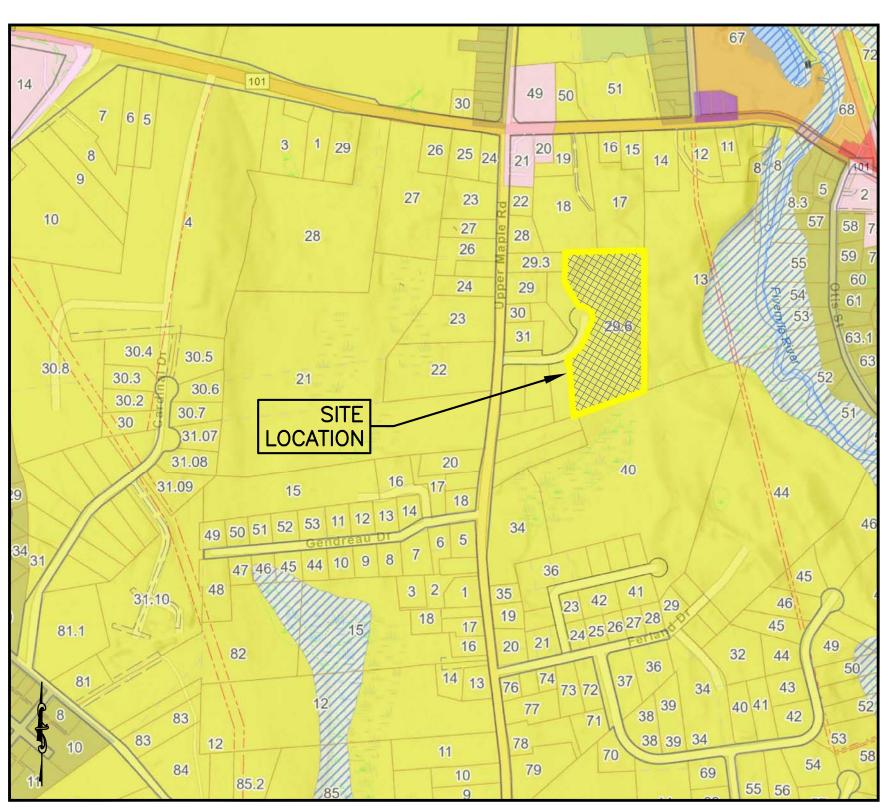
LOW DENSITY RESIDENTIAL (LD)

PROPERTY OWNER

JPPER MAPLE LLC 05 CENTER STREET THOMPSON. CT 06277

APPLICANT

CANTERBURY HOLDINGS LLC 18 GAVIN WAY LISBON, CT 06351



LOCATION & ZONING MAP

SCALE: 1"=±500'

July 7, 2023

CLA Engineers, Inc. CIVIL · STRUCTURAL · SURVEYING 317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165

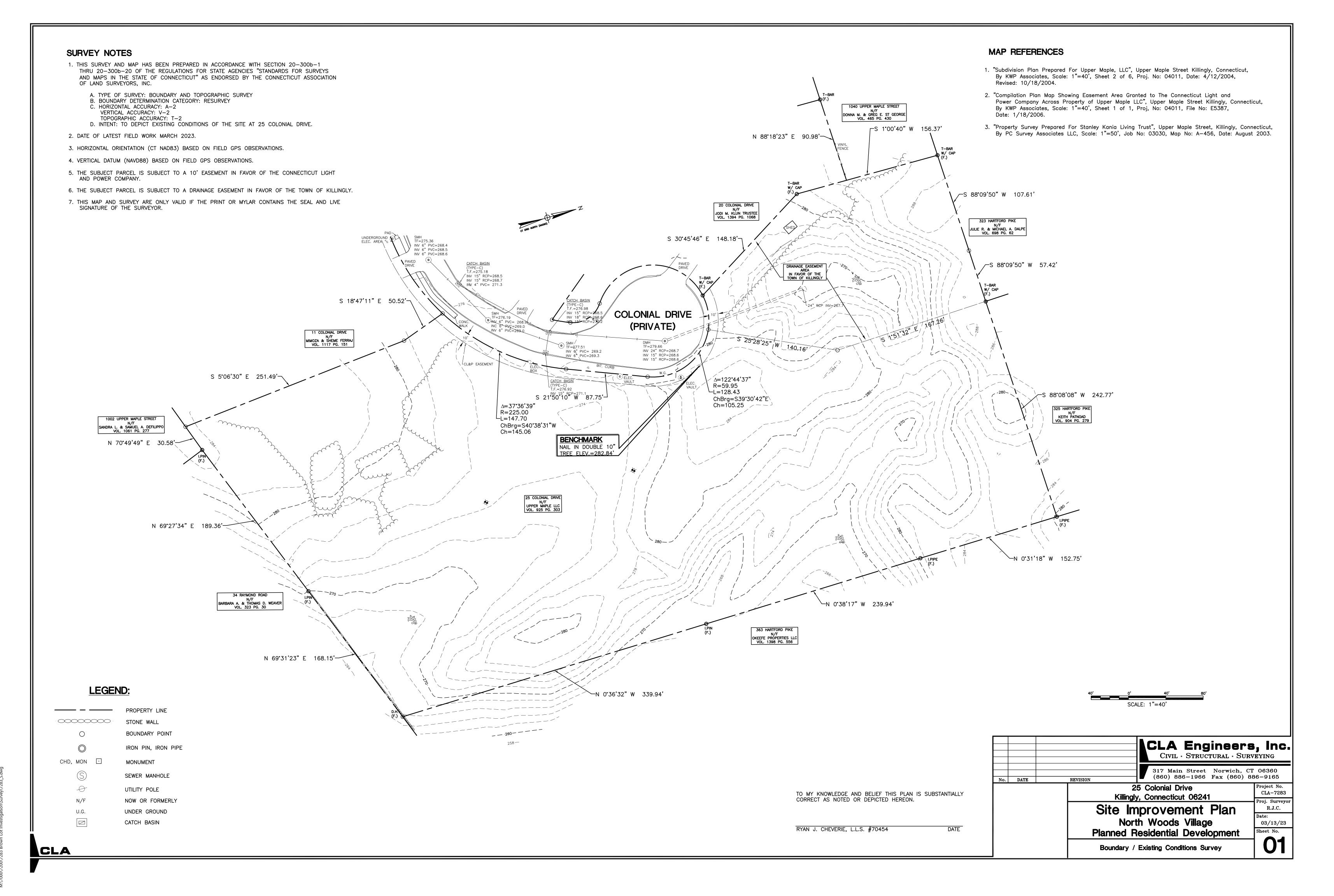
INDEX TO DRAWINGS

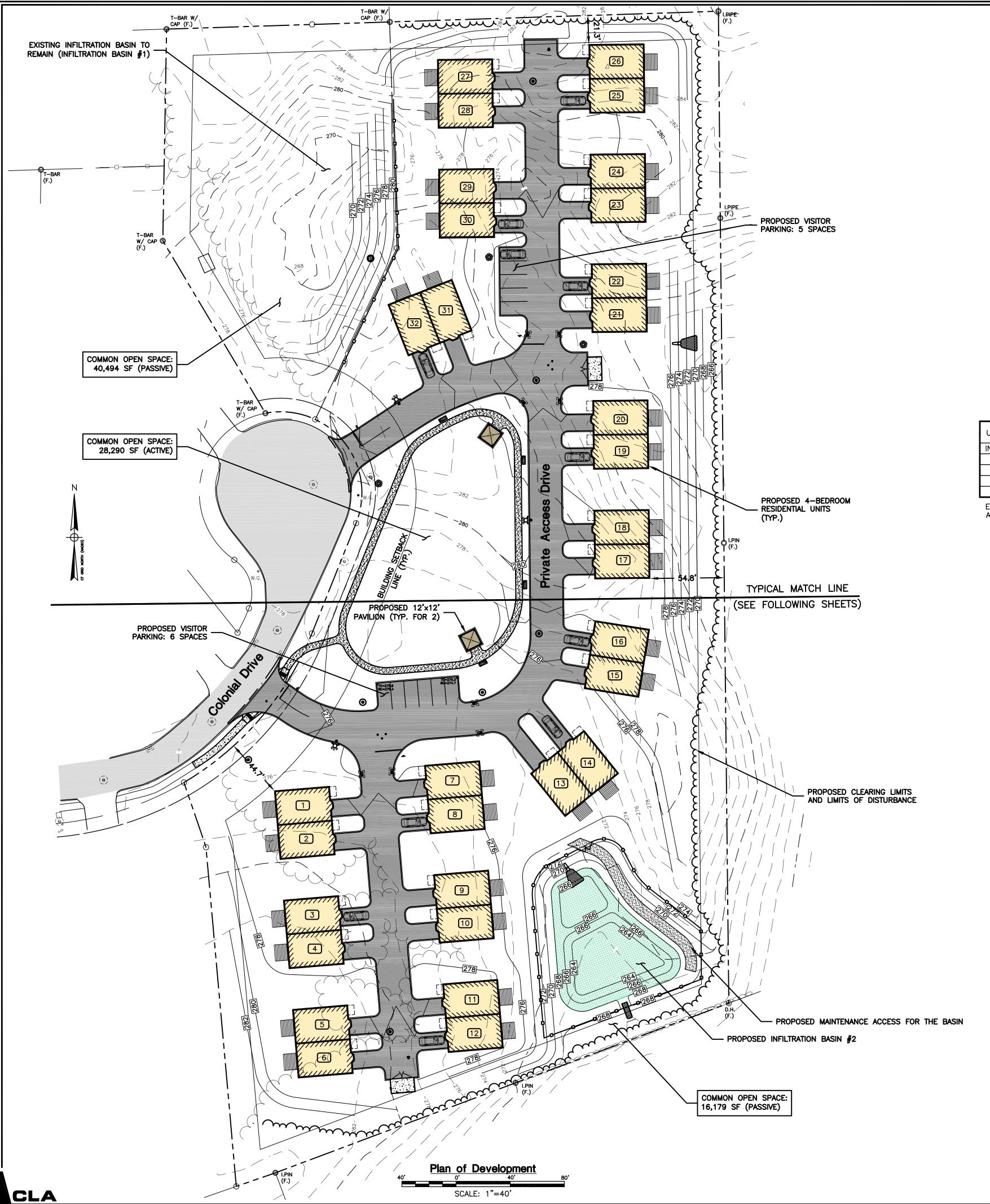
DRAWING NO.	DESCRIPTION OF DRAWINGS
1	Boundary & Topographic Survey
2	Plan of Development
3-4	Site Plan
5-6	Grading, Drainage, and Utility Plan
7-8	Driveway Plan & Profile
9-10	Landscaping Plan
11	Erosion & Sedimentation Control and Stormwater Management Plan
12	Erosion & Sedimentation Control and Stormwater Management Details
13-16	Construction Details

LEGEND TO DRAWINGS

	-	
<u>EXISTING</u>		PROPOSED
	PROPERTY LINE	
	BUILDING SETBACK LINE	
	CATCH BASIN & CULVERT	
W	WATER	w
s	SEWER	s
FM	SEWER FORCE MAIN	
G	GAS	
 126	CONTOUR	126
124.2 _X	SPOT ELEVATION	124.2 _X
Ø	UTILITY POLE	
Ε ———	ELECTRIC	——Е——
т ———	TELEPHONE	
	ELECTRIC & TELECOM.	ETC
	SILT FENCE	SF
——————————————————————————————————————	FENCE	
	RETAINING WALL	
000000000	STONE WALL	
TH3	TEST HOLE	
	TREE/SHRUB LINE	

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ZONING COMPLIANCE TABLE

Zone: Low Density Residential (LD)				
ITEM	REQUIRED	PROVIDED		
LOT AREA	30,000 S.F.	±286,131 S.F.		
FRONTAGE	100 FT.	363 FT.		
FRONT YARD SETBACK	40 FT.	44.7 FT.		
SIDE YARD SETBACK	20 FT.	21.3 FT.		
REAR YARD SETBACK	20 FT.	54.8 FT.		
BUILDING HEIGHT	35 FT.	35 FT.		
LOT COVERAGE	30%	26.1%		
COMMON OPEN SPACE	20%	29.7%		
WATER SUPPLY	MUNICIPAL	MUNICIPAL		
SEWAGE DISPOSAL	MUNICIPAL	MUNICIPAL		

DENSITY CALCULATION

MAXIMUM 5 DWELLING UNITS PER ACRE

6.57 AC. x 5 UNITS/AC. = 32.8 DWELLING UNITS MAXIMUM

32 DWELLING UNITS PROPOSED

COVERAGE CALCULATION:
IMPERVIOUS AREA: 74,650 S.F.

LOT AREA: 286,131 S.F.

COVERAGE = 74,650 S.F. / 286,131 S.F. = 26.1%

COMMON OPEN SPACE CALCULATION:
ACTIVE OPEN SPACE: 28,293 S.F.
PASSIVE OPEN SPACE: 56,673 S.F.
TOTAL OPEN SPACE: 84,966 S.F.

LOT AREA: 286,131 S.F.

COMMON OPEN SPACE = 84,966 S.F. / 286,131 S.F. = 29.7%

PERCENTAGE OF OPEN SPACE DESIGNATED ACTIVE

28,293 S.F. / 286,131 S.F. = 33.3%

PARKING COUNT

USE	QTY	UNIT	REQUIRED	SPACES
INDEPENDENT RESIDENTIAL LIVING	32	DWELLING	2.3 / DWELLING	73.6
		SPA	CES REQUIRED :	74
SPACES PROVIDED AT E	ACH UNIT	(1 GARAGE &	& 1 DRIVEWAY) :	64
		VISITOR PARI	KING PROVIDED :	11
	TOTAL	PARKING SPA	CES PROVIDED :	75

ELECTRIC VEHICLE CHARGING SHALL BE PROVIDED WITHIN THE RESIDENTIAL GARAGES IN ACCORDANCE WITH STATE OF CONNECTICUT STATUTES

PROPOSED DEVELOPMENT

THE PROPOSED DEVELOPMENT INCLUDES THE CONSTRUCTION OF A 32 UNIT PLANNED RESIDENTIAL DEVELOPMENT (INDEPENDENT RESIDENTIAL LIVING) INCLUDING PRIVATE ACCESS DRIVES, UTILITIES, STORMWATER INFRASTRUCTURE, WITH ACTIVE AND PASSIVE OPEN SPACE AREAS. THE SITE WILL BE REGRADED AND IMPROVED AS SHOWN ON THE SITE DEVELOPMENT PLANS TO ACCOMMODATE THE PROPOSED USE. THE PROPOSED DEVELOPMENT WILL DISTURB APPROXIMATELY 5.6 ACRES.

- 1. NO PORTION OF THE SITE LIES WITHIN A 100-YEAR FLOOD PLAIN.
 - (FIRM MAP #090136 0004 B, EFFECTIVE JANUARY 3, 1985)
 THERE ARE NO INLAND WETLANDS LOCATED ONSITE.
 - NO PORTION OF THE LOT LIES WITHIN A CT DEEP NATURAL DIVERSITY DATABASE AREA. NO PORTION OF THE LOT LIES WITHIN THE COASTAL RESOURCE MANAGEMENT BOUNDARY.
- NO PORTION OF THE LOT LIES WITHIN THE COASTAL RESOURCE MANAGEMENT BOOMS.

 NO PORTION OF THE LOT LIES WITHIN THE AQUIFER PROTECTION, FLOOD HAZARD,

 ALEXANDER LAKE, OR FIVE MILE RIVER OVERLAY DISTRICTS.
- 6. THE DEVELOPMENT WILL CONNECT TO THE MUNICIPAL SEWER SYSTEM.7. THE DEVELOPMENT WILL BE SERVED BY THE MUNICIPAL WATER SYSTEM.

GENERAL NOTES

- 1. TOPOGRAPHY WAS ESTABLISHED BY CLA ENGINEERS, INC.
- 2. THE SITE WAS REVIEWED FOR THE PRESENCE OF INLAND WETLANDS BY ROBERT RUSSO OF CLA ENGINEERS, INC. NO INLAND WETLANDS ARE LOCATED ONSITE.
- 3. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 811 AT LEAST 2 FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 4. INFORMATION SHOWN ON THE DRAWINGS RELATING TO MATERIALS, CONDITIONS, AND/OR LOCATIONS OF EXISTING STRUCTURES AND UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING FIELD SURVEY, UTILITY COMPANY AND TOWN RECORD MAPS AND DRAWINGS, AND IS NOT GUARANTEED ACCURATE OR COMPLETE.
- 5. THE CONTRACTOR SHALL EXCAVATE TEST PITS AS NEEDED OR AS DIRECTED BY THE OWNER TO VERIFY UTILITY INFORMATION PRIOR TO THE START OF CONSTRUCTION.
- A. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF TRAFFIC, TRAFFIC CONTROL, TEMPORARY SIGNING OR BARRICADES, AND TEMPORARY LANE CLOSURES AS NEEDED. CONTINUOUS ACCESS FOR BUSES AND
- EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

 B. PASSAGE OF TRAFFIC ON ROADWAYS: A MINIMUM OF ONE LANE FOR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL PERFORM HIS OPERATIONS TO
- MINIMIZE DISRUPTIONS TO TRAFFIC WITHIN AND AROUND THE PROJECT SITE.

 C. RESIDENTS OR BUSINESSES WITH DRIVES AFFECTED BY CONSTRUCTION SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS BEFORE CONSTRUCTION BEGINS AND SHALL BE ALLOWED CONTINUOUS ACCESS TO THEIR PROPERTY. IF WORK IS PERFORMED DURING THE SCHOOL YEAR, THE CONTRACTOR SHALL PROVIDE NOTICE TO THE BUS COMPANIES (PUBLIC & PRIVATE) AT LEAST 48 HOURS BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL PHASE HIS CONSTRUCTION OPERATIONS AS NEEDED TO ALLOW CONTINUOUS ACCESS TO ALL BUSINESSES WITHIN
- THE PROJECT AREA.

 D. TEMPORARY MODIFICATIONS TO TRAFFIC PATTERNS ON PUBLIC ROADWAYS SHALL CONFORM TO THE REQUIREMENTS OF CTDOT AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)".
- E. CONSTRUCTION SIGNS MUST CONFORM TO THE SIGNING REQUIREMENTS OUTLINED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)". ALL SIGN FACES SHALL BE REFLECTORIZED.
- 7. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE STREET LINES, EASEMENTS AND PROPERTY AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT, ROADWAY, SIDEWALKS, ETC., OUTSIDE OF THE WORK AREA AND SHALL REPAIR SUCH DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY AND PERMANENT SUPPORT OF ALL EXISTING UTILITY POLES IN AN ADJACENT TO THE CONSTRUCTION AREA AND SHALL COMPLY WITH ALL THE REQUIREMENTS AND SPECIAL DETAILS FOR THE SUPPORT OF UTILITIES REQUIRED BY UTILITY AGENCIES. ALL COSTS FOR TEMPORARILY SUPPORTING
- UTILITY POLES DURING CONSTRUCTION SHALL BE INCLUDED IN OTHER ITEMS.

 9. MATERIAL STOCKPILE AND STAGING AREAS: THE CONTRACTOR SHALL UTILIZE THE STOCKPILE, MATERIAL STORAGE AND EQUIPMENT STORAGE AREAS SHOWN ON THE PLANS. THE CONTRACTOR MAY ADJUST THE EXACT LOCATIONS IN THE FIELD AS NEED; IN NO CASE MAY THESE AREAS BE LOCATED CLOSER TO THE WETLANDS EDGE THAN SHOWN ON THE PLANS. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL IDENTIFY THESE AREAS AND PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED.
- BLASTING SHALL NOT BE PERFORMED.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING TO GRADE ALL FRAMES, GRATES, COVERS, VALVE BOXES, ACCESS COVERS, AND ALL OTHER ITEMS WHICH NORMALLY MUST HAVE A FIXED RELATION TO FINISHED GRADE.
- 12. ALL WORK TO CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 818, DATED JANUARY 2023, AS REVISED.

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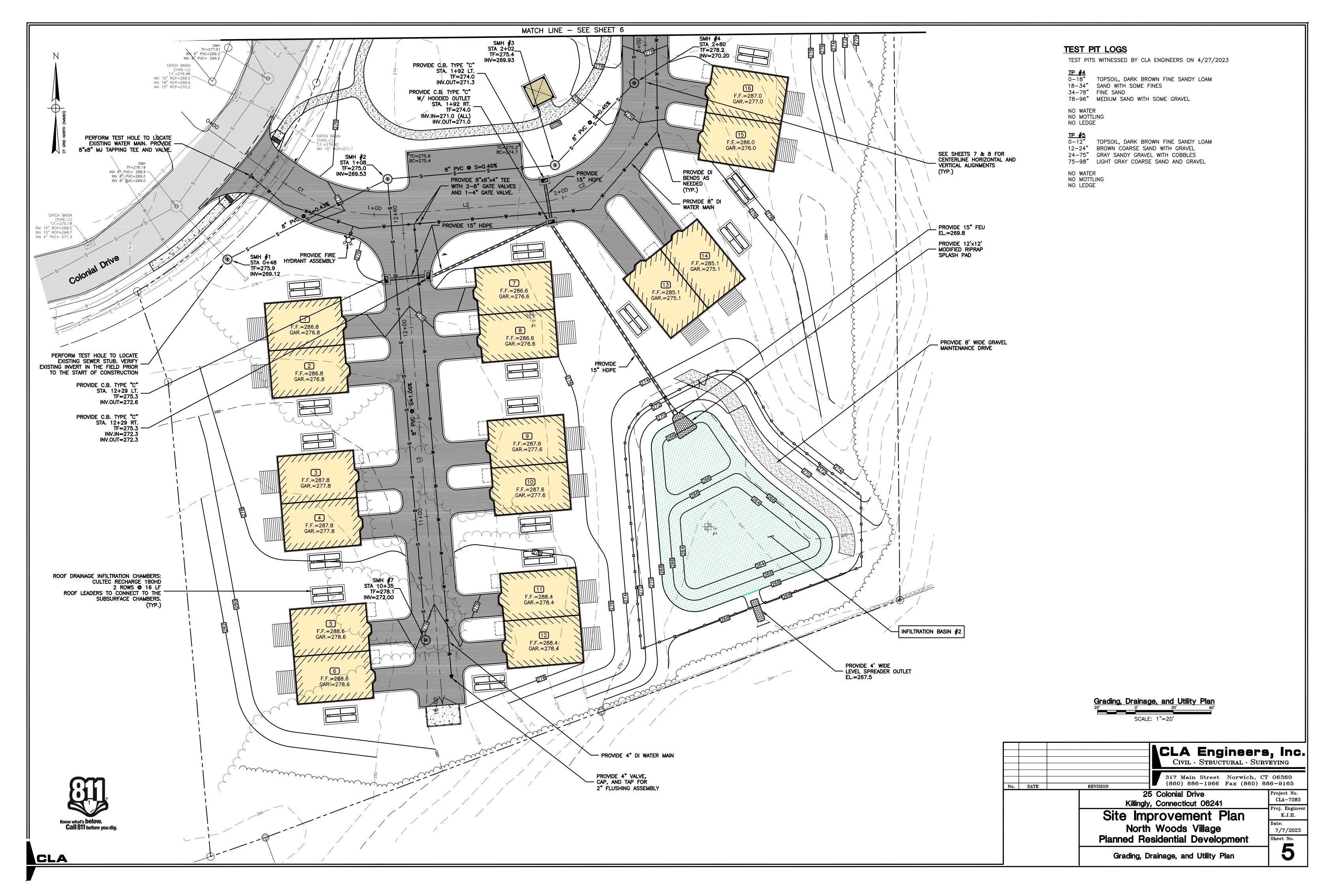
Site Improvement Plan
North Woods Village
Proj. Engineer
K.J.H.

Date:
7/7/2023
Sheet No.

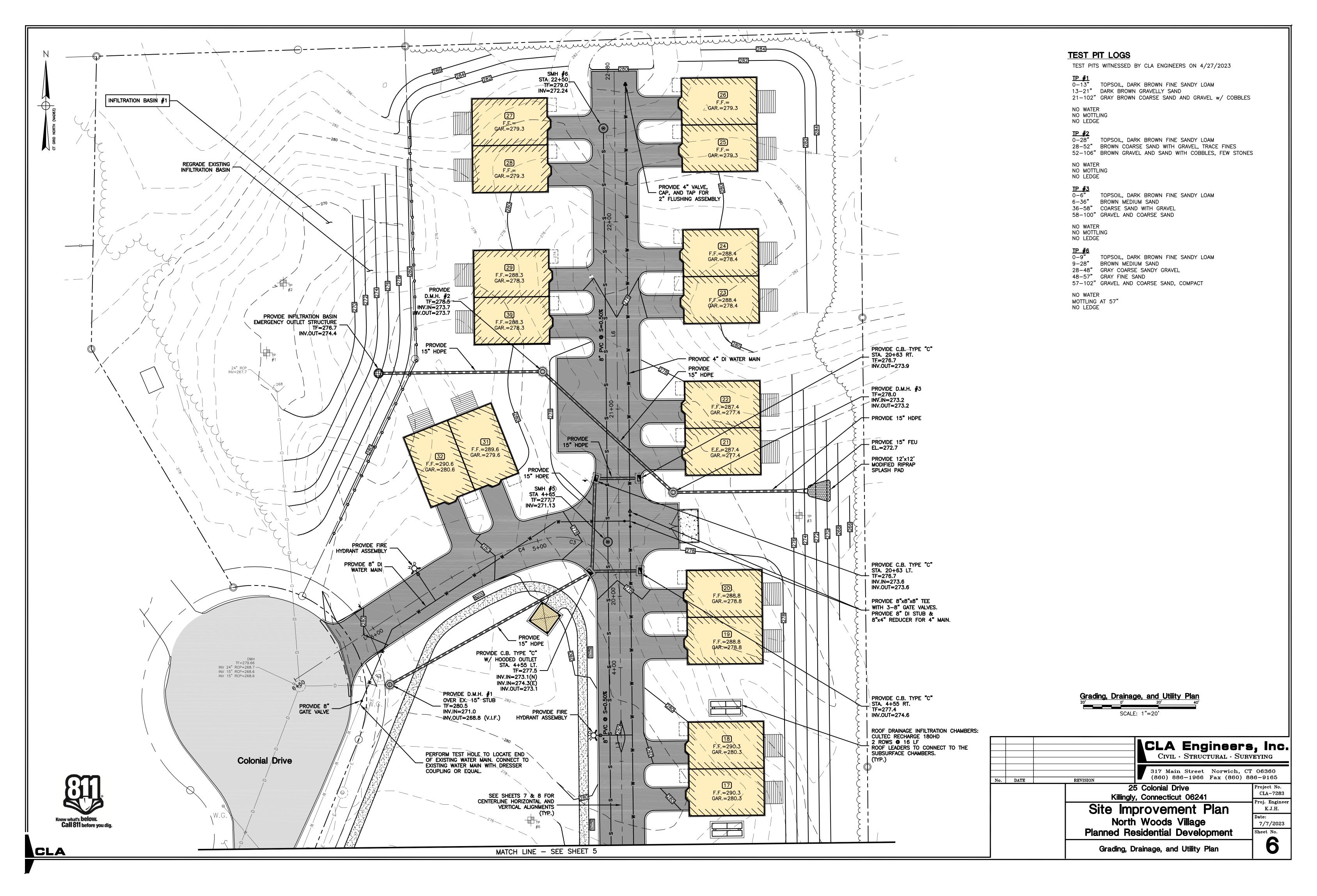
Plan of Development

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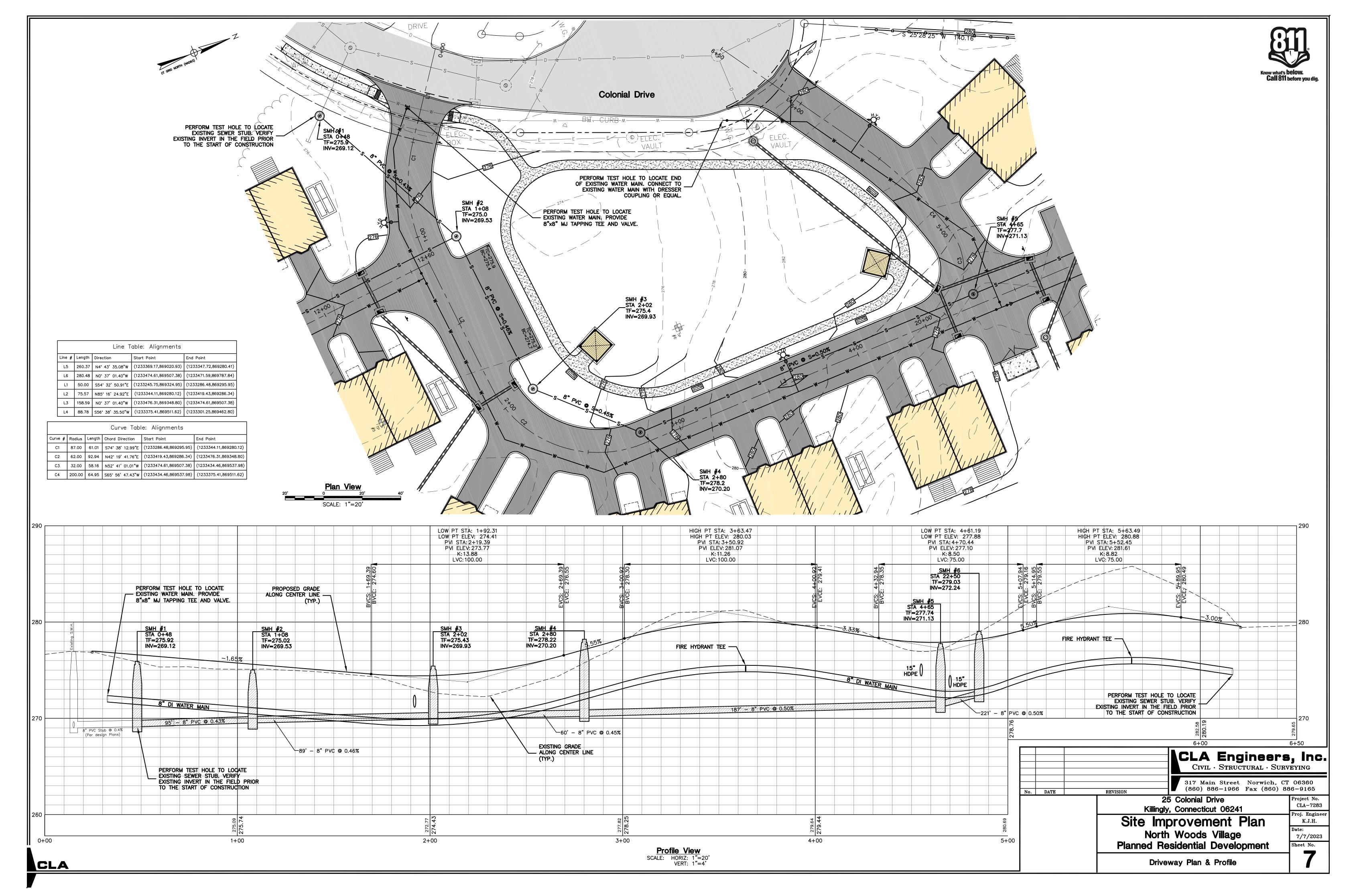
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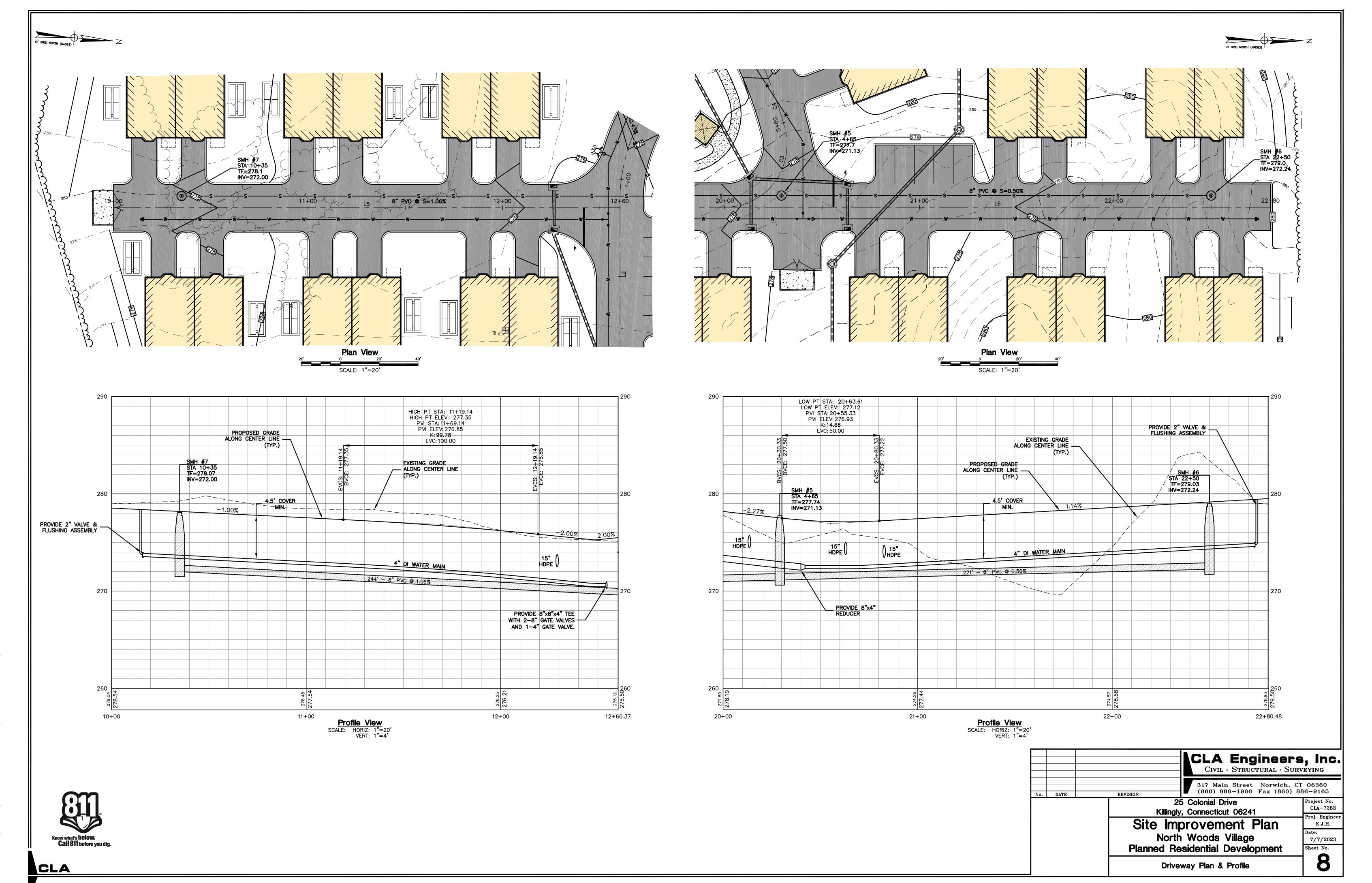
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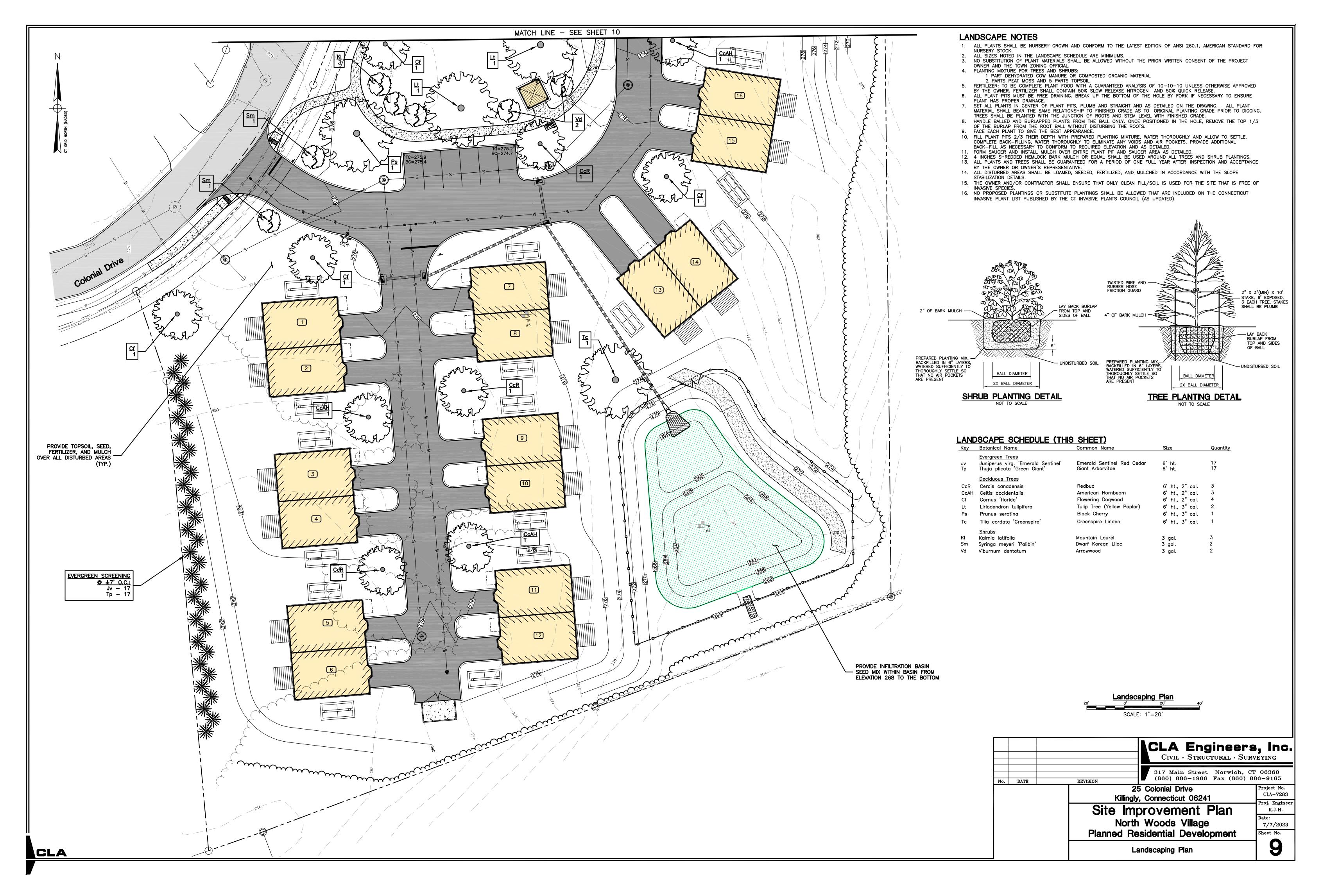
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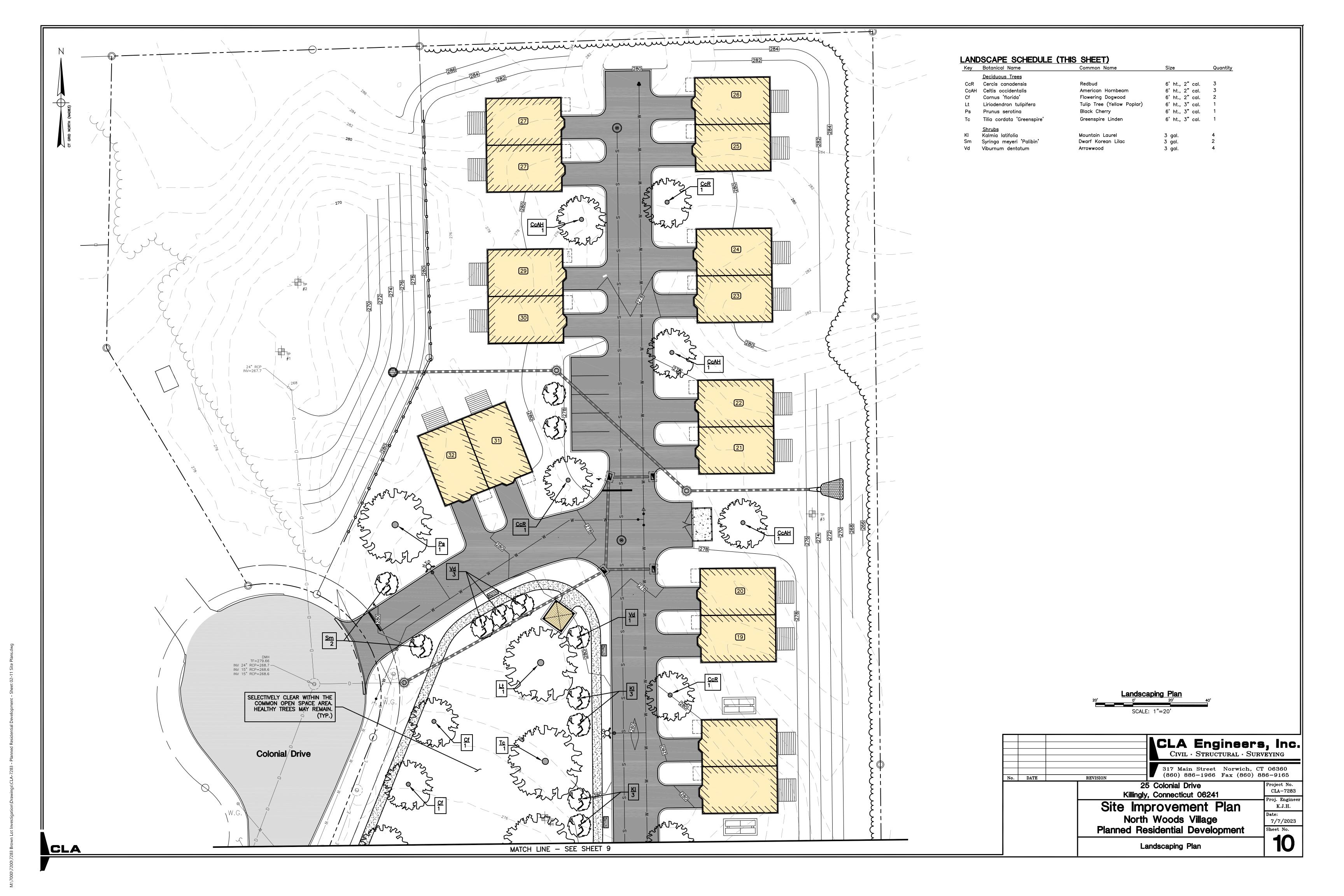
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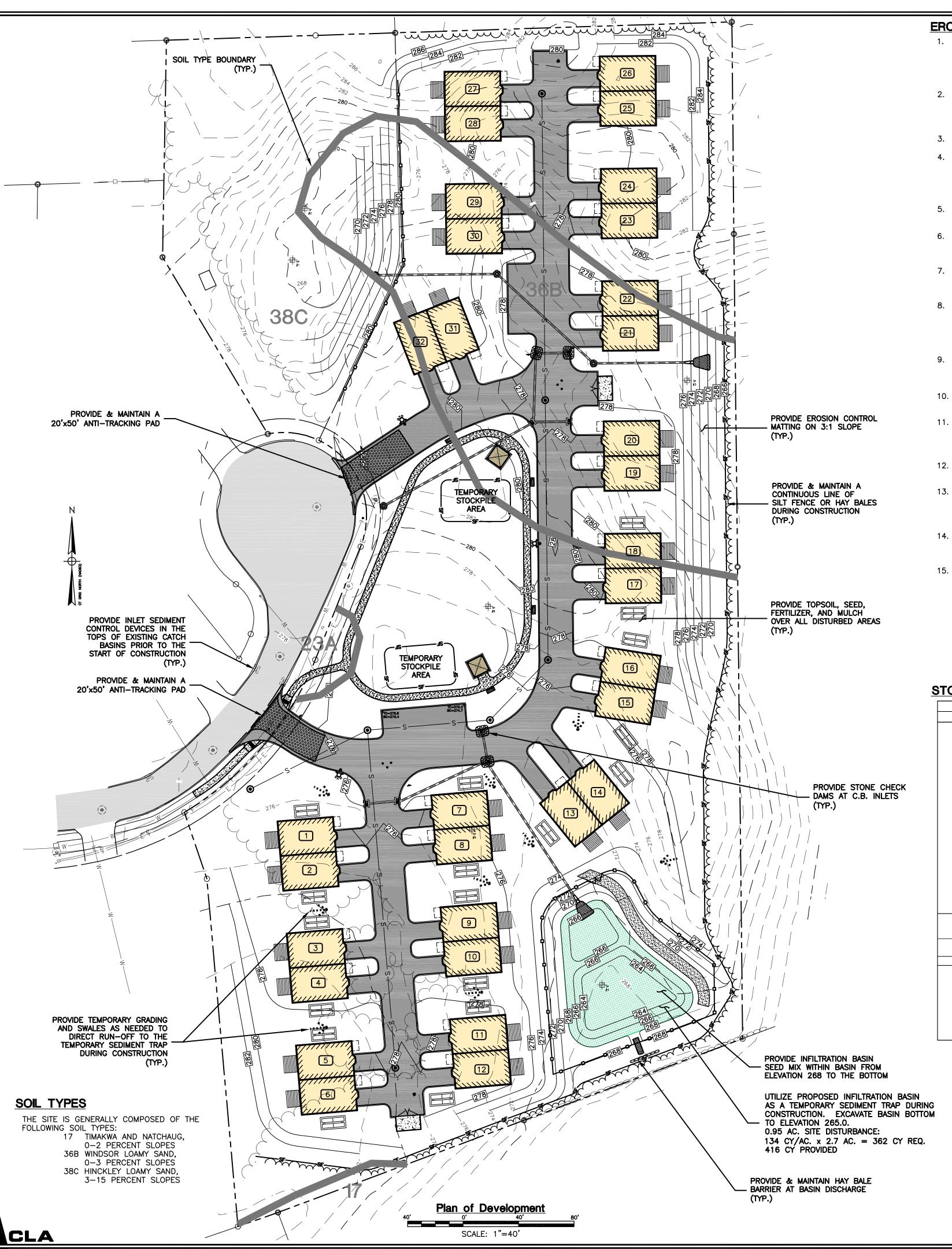


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EROSION & SEDIMENTATION CONTROL NARRATIVE

- 1. THE EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS HAVE BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
- 2. THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDED SILT FENCE, STONE CHECK DAMS AND/OR OTHER EROSION CONTROL MEASURES AS NEEDED OR DIRECTED BY THE ENGINEER OR TOWN STAFF TO ADEQUATELY PREVENT SEDIMENT TRANSPORT.
- 3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.
- 4. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
- 5. STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS. TEMPORARY VEGETATIVE COVER MAY BE REQUIRED (SEE NOTE).
- CONTINUOUS DUST CONTROL USING WATER, CALCIUM CHLORIDE OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED ROADWAY SURFACES.
- IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS SHOWN IN THE HAY-BALE BARRIER DEWATERING DETAIL OR ALTERNATE METHOD PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AND TOWN STAFF.
- 8. ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PERMANENT VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED PER THE PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL DISTURBED AREAS THAT ARE SLOPED MORE THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
- 9. IF FINAL SEEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER 15, THE CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING.
- 10. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISHED GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.
- 11. ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY REPAIRED AND STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE RETURNED TO THE SITE. POST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE TOWN AND ENGINEER.
- 12. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE TOWN.
- 13. UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT
- 14. THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATION FOR THE PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS PRIOR TO THE START OF CONSTRUCTION.
- 15. THE WETLANDS ENFORCEMENT OFFICER SHALL BE NOTIFIED AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION TO INSPECT EROSION CONTROLS.

NOTE: THE CONTRACTOR SHALL CONTINUALLY STORE THE FOLLOWING MATERIALS ONSITE DURING CONSTRUCTION TO MEET UNEXPECTED EROSION NEEDS

* 100 LF OF SILT FENCE * 10 HAY BALES

* 10 CY OF WOOD CHIPS OR CRUSHED STONE

STORMWATER MANAGEMENT & POLLUTION PREVENTION PLAN

- DURING CONSTRUCTION

 1. POLLUTION PREVENTION TEAM:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE PROVISIONS OF THIS PLAN.
- SWEEPING:
 IMPERVIOUS SURFACES BEYOND THE WORK SITE SHALL BE SWEPT CLEAN OF SAND, SILT AND LITTER DAILY AT THE
- OUTSIDE STORAGE:
 ACCESSORIES OR EQUIPMENT STORED OUTSIDE SHALL BE COVERED OR MAINTAINED TO MINIMIZE POSSIBILITY OF THESE MATERIALS OR THEIR RESIDUE PASSING TO STORM WATER.
- WASHING: NO WASHING OF VEHICLES, ACCESSORIES, EQUIPMENT OR APPLIANCES IN WORK SITE.
- MAINTENANCE AND INSPECTION:
- THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE
- HALF THE HEIGHT OF THE BARRIER. DAILY DUST CONTROL USING WATER, OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED
- SPILLS OR ACCIDENTAL DISCHARGES:
- COMPLY WITH STATE AND FEDERAL REGULATIONS TO CONTAIN AND CLEAN UP ANY SPILL OR DISCHARGE AND DISPOSE OF MATERIALS AT AN APPROVED FACILITY.
- CONTACT CONNECTICUT DEEP OIL AND CHEMICAL SPILL RESPONSE DIVISION (860) 424-3338
- THE FOLLOWING STEPS SHOULD BE PERFORMED AS SOON AS POSSIBLE: STOP THE SOURCE OF THE SPILL
- CONTAIN THE SPILL COVER SPILL WITH ABSORBENT MATERIAL SUCH AS KITTY LITER, SAWDUST OR OIL ABSORBENT PADS.
- DO NOT USE STRAW.

d. DISPOSE OF ABSORBER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.

- POLLUTION PREVENTION TEAM:
 THE PROPERTY OWNER WILL BE RESPONSIBLE FOR MAINTAINING THE STORMWATER MANAGEMENT SYSTEMS LOCATED ON THE PROPERTY AND CARRYING OUT THE PROVISIONS OF THIS PLAN.
- SWEEPING:
 THE PRIVATE DRIVE SHALL BE SWEPT CLEAN OF SAND AND LITTER AND ANY OTHER POLLUTANTS AT LEAST TWICE
- PER YEAR. A. BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL)
- B. DURING APRIL (AFTER SNOW MELT)
- OUTSIDE STORAGE:
 ACCESSORIES OR EQUIPMENT STORED OUTSIDE SHALL BE COVERED OR MAINTAINED TO MINIMIZE POSSIBILITY OF THESE MATERIALS OR THEIR RESIDUE PASSING TO STORM WATER.
- NO WASHING OF VEHICLES, ACCESSORIES, EQUIPMENT OR APPLIANCES IN IMPERVIOUS AREAS.
- MAINTENANCE AND INSPECTION:
 A. WATER QUALITY BASINS
 - INSPECT BASIN & SIDE SLOPES FOR INVASIVE VEGETATION ANNUALLY INSPECT FOR DAMAGED, UNDERCUT, OR ERODED AREAS SEMI—ANNUALLY
- CLEAN AND REMOVE DEBRIS FROM THE OUTLET, INSPECT AND CLEAN DEBRIS IN THE BASIN, MOW SIDE SLOPES - SEMI-ANNUALLY
- REMOVE SEDIMENT AND DEBRIS FROM WATER QUALITY BASINS WHEN SEDIMENT ACCUMULATION
- REACHES 1/2 OF THE STORAGE VOLUME OF THE BASIN. GRASS SWALES
- REMOVE SEDIMENT AND LEAF LITTER BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL) AND DURING APRIL (AFTER SNOW MELT) RAIN GARDENS: SEE DETAIL
- 6. SPILLS OR ACCIDENTAL DISCHARGES
- COMPLY WITH STATE AND FEDERAL REGULATIONS TO CONTAIN AND CLEAN UP ANY SPILL OR DISCHARGE
- AND DISPOSE OF MATERIALS AT AN APPROVED FACILITY. CONTACT CONNECTICUT DEEP OIL AND CHEMICAL SPILL RESPONSE DIVISION (860) 424-3338
- THE FOLLOWING STEPS SHOULD BE PERFORMED AS SOON AS POSSIBLE: STOP THE SOURCE OF THE SPILL
- CONTAIN THE SPILL COVER SPILL WITH ABSORBENT MATERIAL SUCH AS KITTY LITER, SAWDUST OR OIL ABSORBENT PADS.
- d. DISPOSE OF ABSORBER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.

STORMWATER SYSTEM OPERATIONS AND MAINTENANCE

Maintenance Schedule for Infiltration Basi	ns	Maintenance Schedule for Infiltration Cham	bers	
Activity	Schedule	Activity	Schedule	
 Prior to new spring growth reaching a height of 2" (e.g., shortly after forsythia or redbud blooms), trim any material standing from the previous year close to the ground (approximately 2"). This will allow the soil to warm more quickly, which will stimulate the emergence and growth of native seedlings and 	Second growing season	Inspect infiltrators through the inspection ports for accumulated sediment	 Between Novemb 15th and Decembe 15th (after leaf fall During April (after snow melt) 	
reduce the likelihood of the meadow being invaded by shrubs. • Problem weeds should be hand pulled or spot sprayed with an		Remove sediment when depth exceeds 3". Jet the system clean with pressurized water though a culvert cleaning nozzle. Use a vac truck to remove sediment from the system.	As needed	
approved herbicide, such as Rodeo® or Garlon® 3A.				
If you did not plant vines or spiny plants as part of your				
mix, be vigilant about controlling them. These are more				
easily pulled when they are young rather than after they				
have had two to three months of growth. Examples include				
bindweed, blackberry, multiflora rose, mile-a-minute and		Maintenance Schedule for Catch Basins		
Japanese hops. Be equally vigilant about controlling other		Activity	Schedule	
invasive species, such as autumn olive and Japanese knotweed.		Clean out sediment from catch basin and hydrodynamic separator	Between Novem 15 th and Decemb	
• Special Circumstances If you notice a heavy infestation of ragweed or foxtail in the second growing season, trim the meadow to a height of 8". Trimming should cease by mid-September.			15 th (after leaf fa • During April (after snow melt)	
For the basin and side slopes, inspect for invasive vegetation.	Monthly			
Grassy weeds or persistent perennials can re-establish in these soils. Monitor and control weeds by hand pulling or spot spraying.				
Inspect for damage, undercut, or eroded area	Semi-Annual inspection			
Monitor for sediment accumulation		M-i-t	. A	
Repair undercut or eroded areas.	As needed maintenance	Maintenance Schedule for Parking / Driveway		
Clean and remove debris & sediment from inlet and outlet		Activity	Schedule	
 Inspect and clean debris & sediment in the basin 	Semi-annual	Sweep impervious areas	Between Novem 15 th and December	
Clean and remove debris from the plunge pools			15 th (after leaf fa	
Mow side slopes. Close mowing throughout the regular growing season or extensive chemical use is not conducive to water quality improvement and wildlife habitat. Spring mowed vegetation can			During April (af snow melt)	
typically remain within basins providing cover for new emerging vegetation.		Remove and dispose of trash and debris onsite	Daily - As needed maintenance	

ACLA Engineers, Inc. CIVIL · STRUCTURAL · SURVEYING 317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165 No. DATE 25 Colonial Drive CLA-7283 Killingly, Connecticut 06241 roj. Engineer Site Improvement Plan K.J.H.

North Woods Village Planned Residential Development

Stormwater Management Plan and **Erosion & Sedimentation Control Plan**

7/7/2023

TEMPORARY VEGETATIVE COVER

A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL IN THE STOCKPILES HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER. LIME AND SEED IS APPLIED. 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F. LIMESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS.

PERMANENT VEGETATIVE COVER

TOPSOIL WILL BE REPLACED ONCE THE EXCAVATIONS HAVE BEEN COMPLETED AND THE SLOPES ARE GRADED AS SHOWN ON THE PLANS. PROVIDE SLOPE PROTECTION AS CALLED FOR ON THE PLANS AND DETAILS. TOPSOIL SHALL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF 6 INCHES. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS.

- APPLY AGRICULTURAL GROUND LIMESTONE AT THE RATE OF TWO TONS PER ACRE OR 100 LBS. PER 1000 S.F.
- APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER 1000 S.F.
- WORK LIMESTONE AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES.
- INSPECT SEEDBED BEFORE SEEDING.
- IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS. APPLY THE FOLLOWING GRASS SEED MIX:

TYPICAL SEED MIXTURE

ALL DISTURBED AREAS	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYEGRASS	5	0.10
	45	1.00

TYPICAL SEED MIXTURE FOR NON-MOWED SLOPES	(3:1 OR STEEPER)
CT DEP SEED MIX NO. 26	LBS./ACRE	LBS./1000 S.F
SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	4.0	0.10
BIG BLUESTEM (NIAGRA, KAW)	4.0	0.10
LITTLE BLUESTEM (BLAZE, ALDOUS, CAMPER)	2.0	0.05
SAND LOVEGRASS (NE-27, BEND)	1.5	0.03
BIRD'S-FOOT TREFOIL (EMPIRE VIKING)	2.0	0.05

13.5

0.33

THE RECOMMENDED SEEDING DATES ARE: APRIL 1 - JUNE 15 AND AUGUST 15 - OCTOBER 15

IMMEDIATELY FOLLOWING SEEDING, FIRM SEED BED WITH A ROLLER AND MULCH WITH WEED FREE STRAW. IF PERMANENT VEGETATIVE COVER IS HAS NOT BEEN ESTABLISHED BY OCTOBER 15, APPLY A TEMPORARY VEGETATIVE COVER ON THE TOPSOIL.

VEGETATIVE COVER FOR WATER QUALITY BASIN

SEED MIXTURE FOR SETTLING BASINS SHALL BE THE "NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR MOIST SITES" FROM NEW ENGLAND WETLAND PLANTS, AMHERST, MA, TELEPHONE NO. 413-548-8000

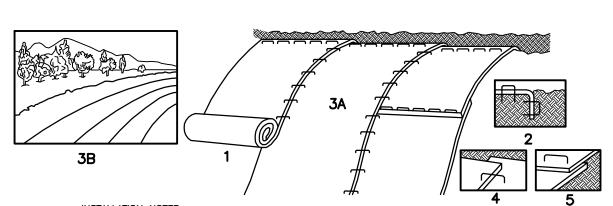
THE BEST RESULTS ARE OBTAINED WITH A SPRING SEEDING. SUMMER AND FALL SEEDING REQUIRE A LIGHT MULCHING OF WEED FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A 10% INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE.

RAIN GARDEN SEED MIXTURE

NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES

LBS./ACRE LBS./1000 S.F. 35 0.80

SPECIES: Virginia Wild Rye, (Elymus virginicus), Creeping Red Fescue, (Festuca rubra), Little Bluestem, (Schizachyrium scoparium), Big Bluestem, (Andropogon gerardii), Fox Sedge, (Carex vulpinoidea), Switch Grass, (Panicum virgatum), Rough Bentgrass, (Agrostis scabra), New England Aster, (Aster novae—angliae), Boneset, (Eupatorium perfoliatum), Grass Leaved Goldenrod, (Euthamia graminifolia), Green Bulrush, (Scirpus atrovirens), Blue Vervain, (Verbena hastata) Soft Rush, (Juncus effusus), Wool Grass, (Scirpus cyperinus)



INSTALLATION NOTES:

1. PROVIDE 4" THICKNESS OF TOPSOIL OVER CLEAN FILL. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME,

- FERTILIZER, AND SEED MIX PER PERMANENT VEGETATIVE COVER NOTES. (SHALL BE PAID FOR AT THE UNIT PRICE FOR LOAM, SEED, FERTILIZE & MULCH)
- BEGIN AT THE UNIT PRICE FOR LOAM, SEED, FERTILIZE & MULCH)
 BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP x 6"
 WIDE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 ROLL THE BLANKET (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
 THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
 WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER
 THE COUNTY OF THE SLOPE STAPLE BLANKETS BE STAPLED BLOOKED AND STAPLE BLANKETS END OVER
- END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

PRODUCT NOTES: 1. EROSION CONTROL MATTING MUST BE LISTED ON THE LATEST CT DOT QUALIFIED PRODUCTS LIST UNDER CLASS I: SLOPE PROTECTION, TYPE D.

EROSION CONTROL MATTING DETAIL (FOR 3:1 SLOPES OR STEEPER)

NOTES:

1. HYDROSEED SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 9.50.3.6 OF DOT FORM 818. BONDED FIBER MATRIX (BFM) OR FLEXIBLE GROWTH MEDIUM (FGM) MUST BE INCLUDED IN THE HYDROSEED SLURRY. MIX RATE PERCENTAGES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS FOR THE FINISHED SLOPES. THE FOLLOWING ARE

ACCEPTABLE PRODUCTS:
PROFILE FLEXTERRA FGM
PROFILE HYDRO-BLANKET BONDED FIBER MATRIX

4" CLEAN FILL-

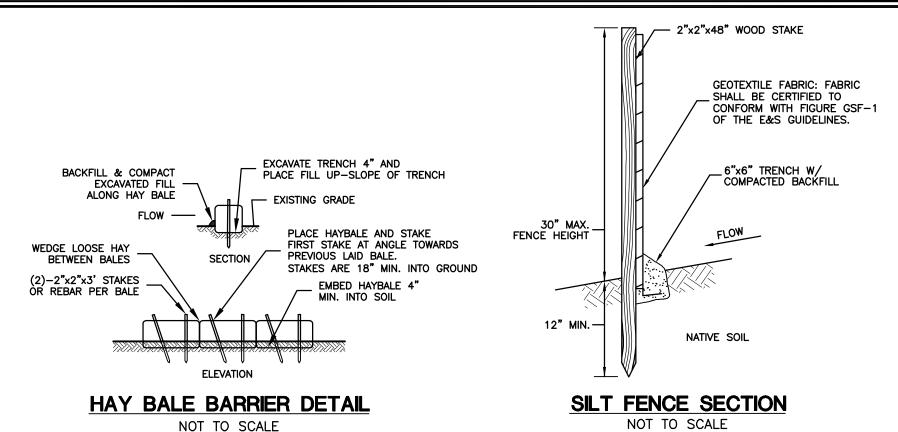
C. MAT, INC. SOIL GUARD BONDED FIBER MATRIX
D. NORTH AMERICAN GREEN HYDRA GT OR HYDRA CM
3. THE REQUIRED SEED MIX SHALL BE IN ACCORDANCE WITH THE PERMANENT VEGETATIVE COVER NOTES. ALL APPLICATION RATES SHALL BE INCREASED BY 10% FOR HYDROSEEDING.
4. THE CONTRACTOR SHALL ENSURE 100% COVERAGE OF THE DISTURBED SOIL.

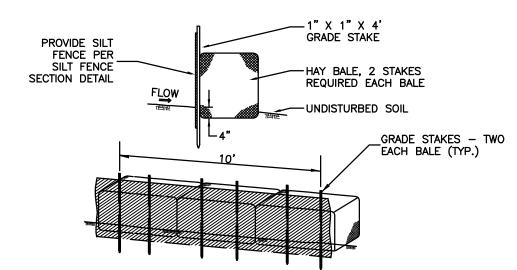
HYDROSEED REQUIREMENTS (FOR 3:1 SLOPES OR STEEPER) 6" TOPSOIL PER PERMANENT VEGETATIVE -COVER NOTES

TYPICAL LOAM & SEED SECTION DETAIL (FOR ALL DISTURBED AREAS)

SLOPE STABILIZATION DETAILS

NOT TO SCALE



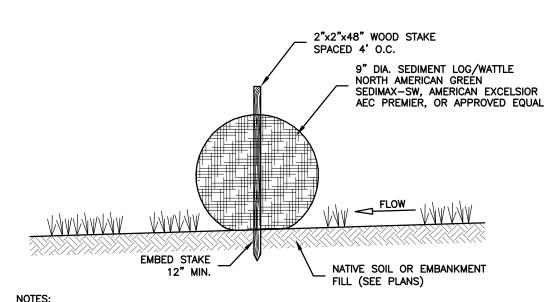


CONSTRUCTION NOTES:

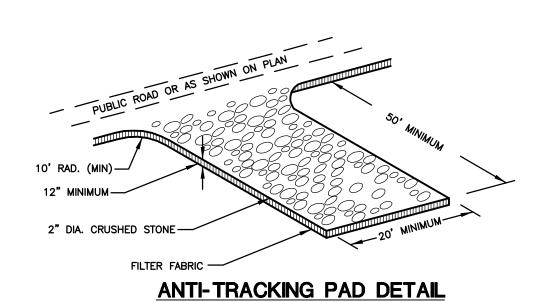
- 1. SILT FENCE FILTER CLOTH TO BE SECURELY FASTENED TO GRADE STAKE
- WITH STAPLES, 6" ON CENTER.
 2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN ONE ANOTHER THEY
- SHALL OVERLAP BY 6" AND BE FOLDED.

 3. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE

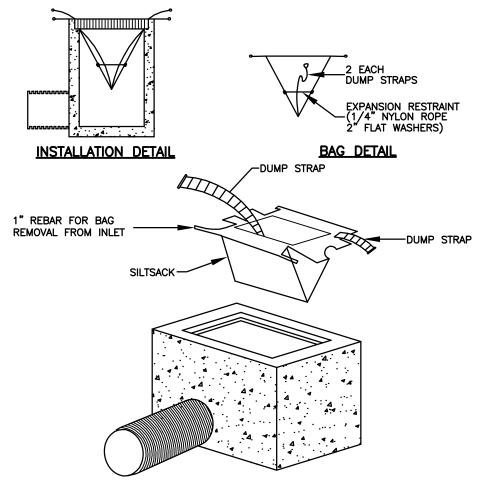
SILT FENCE BACKED BY HAY BALES DETAIL NOT TO SCALE



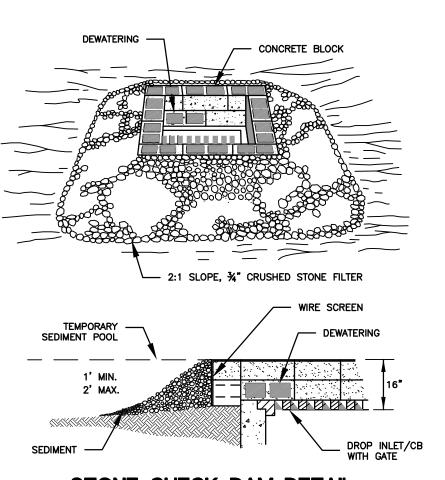
STORMWATER LOG ENDS SHALL BE TIED TOGETHER, OVERLAPPED AT LEAST 24" OR BE SECURED AS RECOMMENDED BY THE MANUFACTURER. STORMWATER SEDIMENT LOG (WATTLE) DETAIL



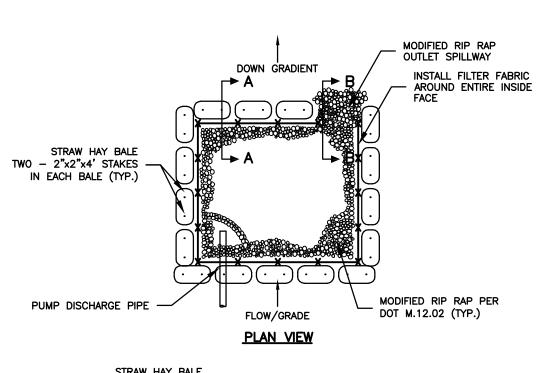
NOT TO SCALE

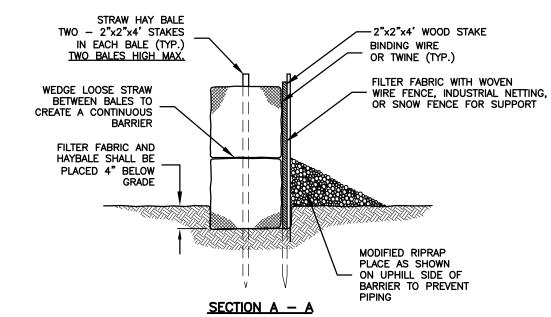


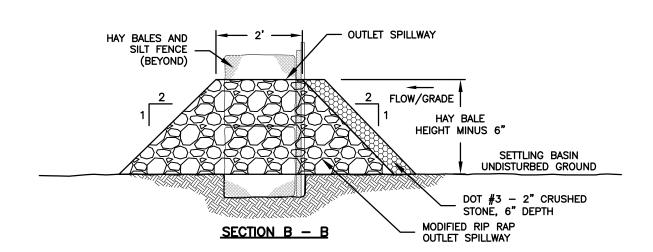
NOTE:
TO BE PROVIDED IN ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND WITHIN BASINS ADJACENT TO THE WORK AREA PRIOR TO THE START OF CONSTRUCTION INLET SEDIMENT CONTROL DEVICE DETAIL



STONE CHECK DAM DETAIL NOT TO SCALE







CONSTRUCTION NOTES:

- 1. SILT FENCE FILTER CLOTH TO BE SECURELY FASTENED TO GRADE STAKE WITH STAPLES, 6" ON CENTER.

 2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN ONE ANOTHER THEY SHALL
- OVERLAP BY 6" AND BE FOLDED.

 3. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

- DEWATERING PLAN

 A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS FOLLOWS:

 1. PUMP INLET SHALL BE PROTECTED WITH FILTER FABRIC & CRUSHED STONE.

 2. PUMP SHALL BE STAGED OUTSIDE OF WETLANDS.

 3. THE WATER SHALL BE PUMPED TO A DEWATERING STRUCTURE WHICH SHALL BE LOCATED AT LEAST 50 FEET FROM ANY REGULATED WETLAND AREA OR AS SHOWN ON THE PLANS.

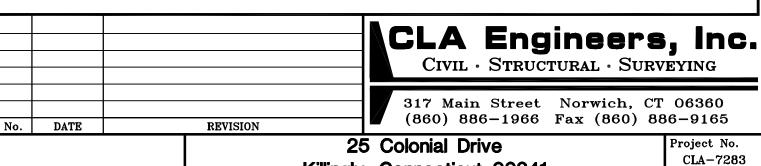
 4. THE DEWATERING STRUCTURE SHALL BE SIZED TO ACCOMMODATE PUMP DISCHARGE RATE: REQUIRED VOLUME (C.F.) = PUMP DISCHARGE (G.P.M.) x 16

 5. THE DEWATERING STRUCTURE SHALL DISCHARGED TO A VEGETATED AREA.

 6. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN AND PROPERLY DISPOSED OF WHEN ACCUMULATION REACHES HALF OF THE REQUIRED STORAGE VOLUME.

 7. DEWATERING AREA SHALL BE RESTORED WITH NEW ENGLAND EROSION CONTROL SEED MIX.

HAY BALE BARRIER DE-WATERING DETAIL NOT TO SCALE



Killingly, Connecticut 06241 Site Improvement Plan

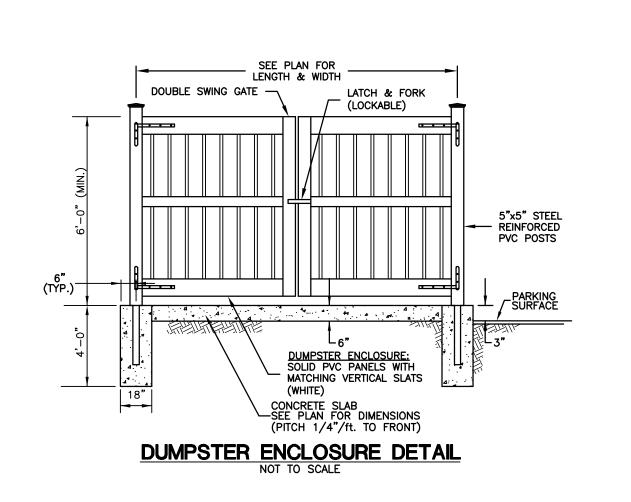
North Woods Village Planned Residential Development

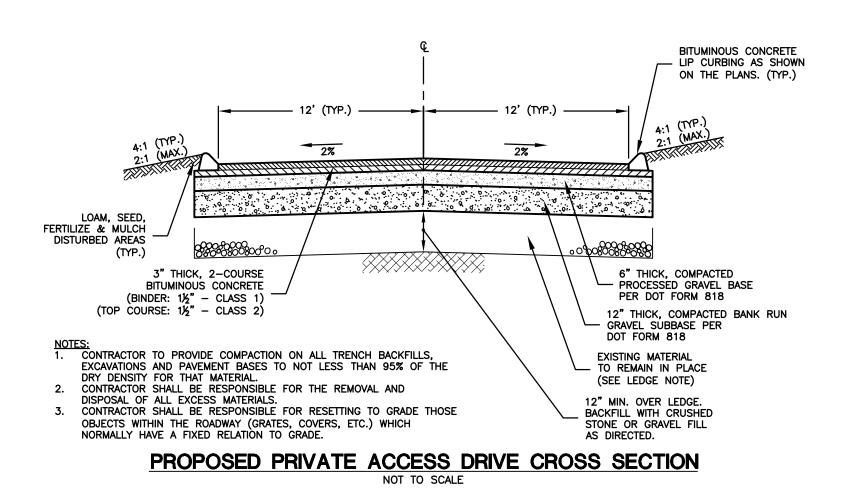
Stormwater Management Plan and **Erosion & Sedimentation Control Details**

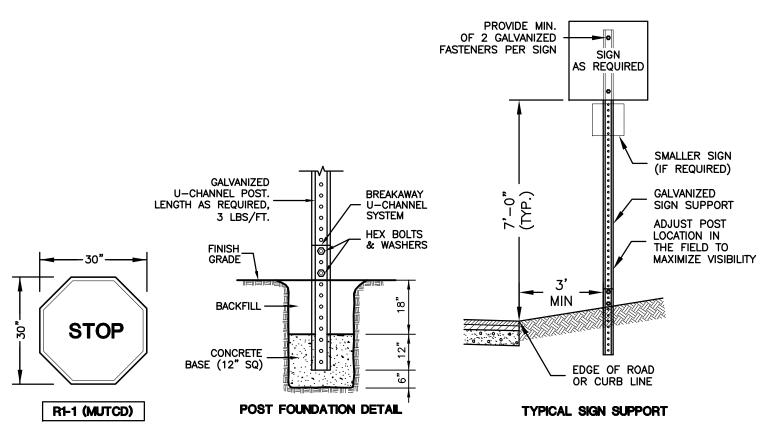
^Proj. Engineer

K.J.H.

7/7/2023







NOTES:
1. PROVIDE CONTINUOUS TACK COAT ALONG EDGE WHEN MATCHING EXISTING PAVEMENT 2. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL WHEN TESTED IN

ACCORDANCE WITH AASHTO T180, METHOD D TYPICAL PAVEMENT SECTION DETAIL NOT TO SCALE

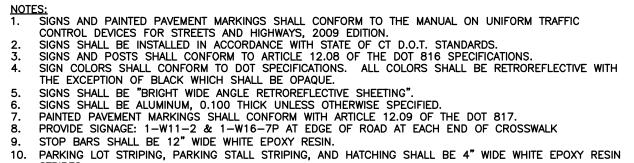
3" BITUMINOUS CONC. PAVEMENT - (BINDER: 1½" - CLASS 1)

(TOP COURSE: 1½" - CLASS 2)

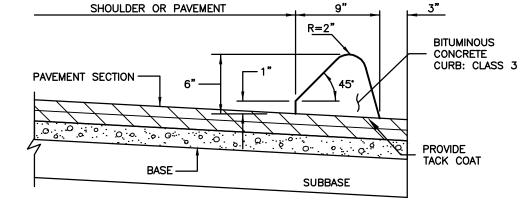
GRAVEL - PER D.O.T 818 SPEC.

6" COMPACTED PROCESSED

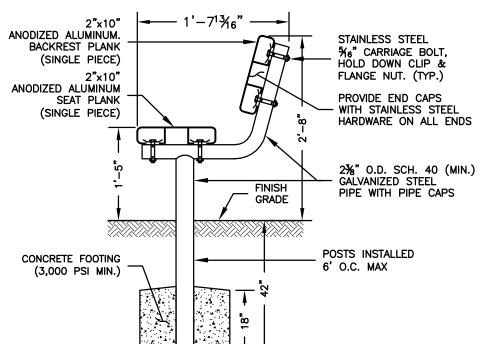
12" COMPACTED BANK RUN GRAVEL



PAVEMENT SECTION — 6.00 TRAFFIC SIGNING & PAVEMENT MARKING DETAILS NOT TO SCALE BASE ----







IN-GROUND ALUMINUM BENCH DETAIL

NOT TO SCALE

→ 12"ø →

PERMEABLE GEOTEXTILE FILTER FABRIC OVER SUBGRADE __ 6" PROCESSED GRAVEL - PER DOT FORM 818 SPEC. EXITING COMPACTED SUBGRADE - OR GRAVEL FILL PER DOT FORM 818 SPEC. NOTES:

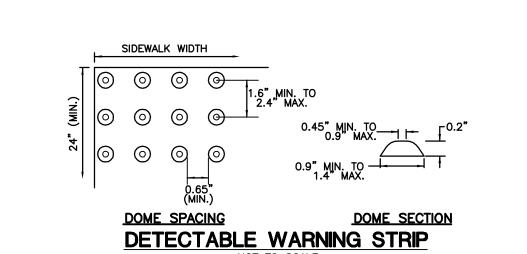
1. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL WHEN TESTED IN ACCORDANCE WITH AASHTO T180, METHOD D 2. CONTRACTOR SHALL REMOVE ALL ORGANIC MATERIAL ABOVE THE EXISTING GRAVEL SUBGRADE PRIOR TO PLACING GRAVEL TO THE PROPOSED 3. STONE DUST SHALL CONSIST OF HARD, DURABLE UNCOATED PARTICLES OF STONE OR ROCK, FREE FROM LUMPS OF CLAY AND ALL DELETERIOUS SUBSTANCES. CONTRACTOR SHALL PROVIDE A SAMPLE FOR APPROVAL

PRIOR TO THE START OF CONSTRUCTION. MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATIONS: SQUARE MESH SIEVE % PASSING BY WEIGHT

STONE DUST WALK SECTION DETAIL

NOT TO SCALE





NOT TO SCALE

- 5" CONC. - BROOM FINISH

6" PROCESSED GRAVEL BASE

WHERE APPLICABLE

WELDED WIRE FABRIC

NEW CONCRETE _ SIDEWALK: CLASS PCC04462 PER DOT FORM 818 M.03.02

6x6-W1.4xW1.4

CROSS SECTION

LONGITUDINAL SECTION

CONCRETE WALK & JOINT DETAIL

5%

SIDEWALK RAMP DETAIL

-NEW SIDEWALK

WIDTH A B

3' 3' 9' 4' 4' 12'

5' 5' 15' 6' 6' 18'

TOOLED JOINT (1" DEEP)

MONOLITHIC CURBING-

CONSTRUCTION JOINT: _1/2" PREMOLDED

BITUMINOUS EXPANSION JOINT MATERIAL

DOWELS: #5 BAR @ 12" O.C. DRILL & EPOXY DOWELS INTO EXISTING CONC. EMBED 6" INTO

EXISTING WALK AND EPOXY WITH

HILTI H-150

USE EXPANSION

CONSTRUCTION JOINT: 1/2" PREMOLDED _

BITUMINOUS EXPANSION JOINT MATERIAL

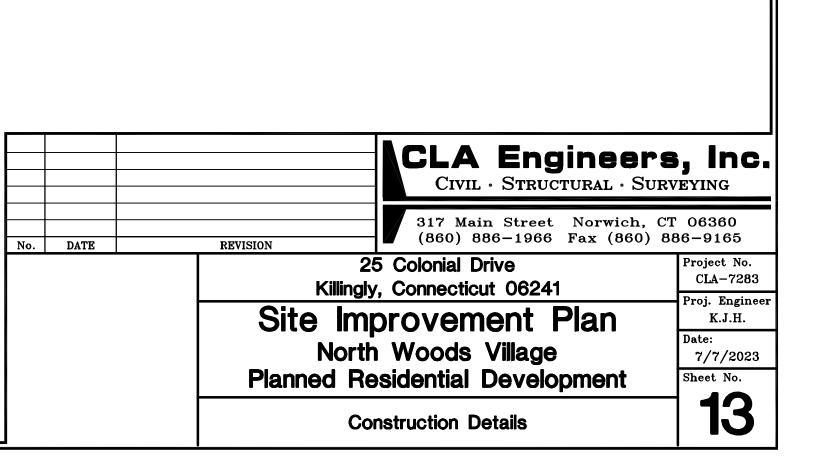
1/2" PREMOLDED EXPANSION JOINT

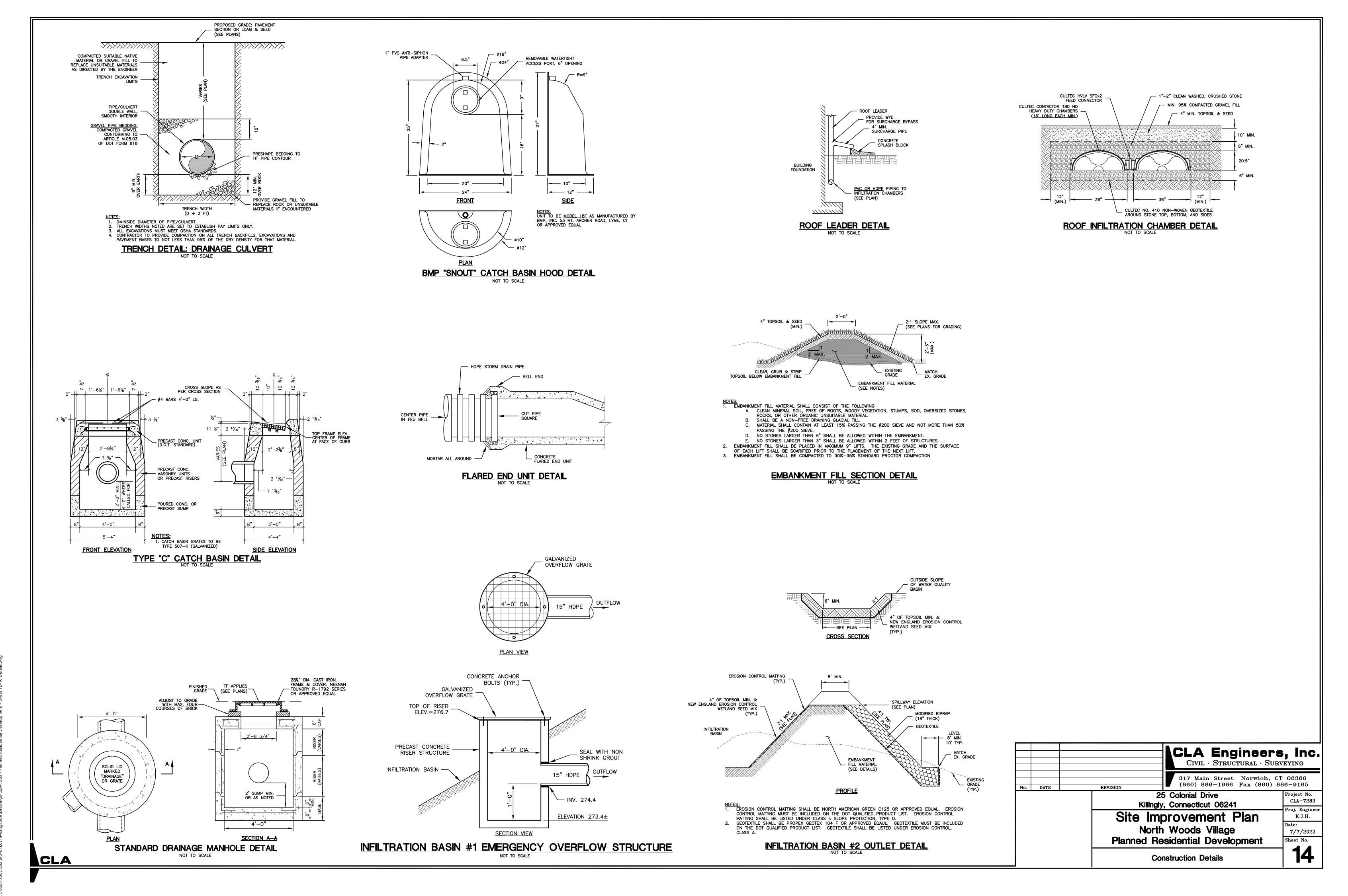
RAMP SECTION TO CONFORM
 TO RAMP SECTION DETAIL

_RAMP (HAIR / BROOM FINISH)

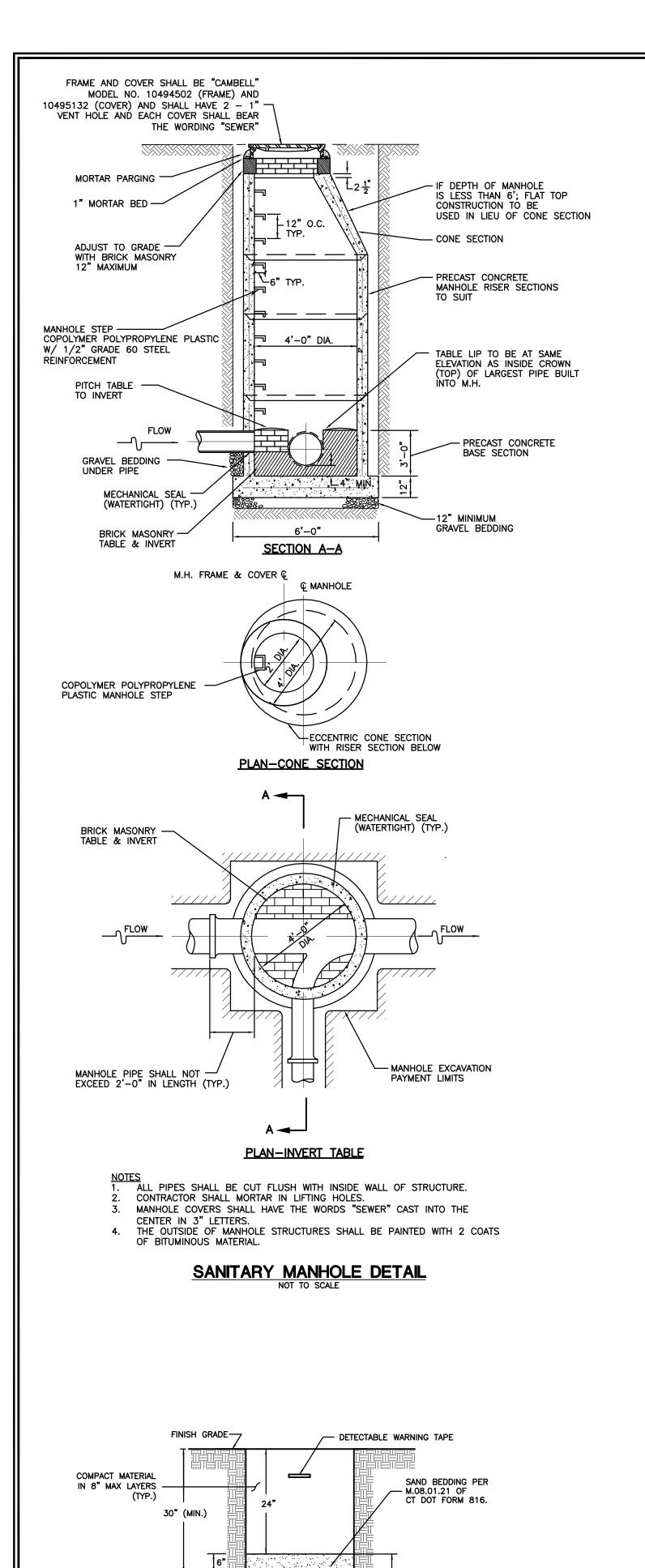
JOINT WHERE NEW-

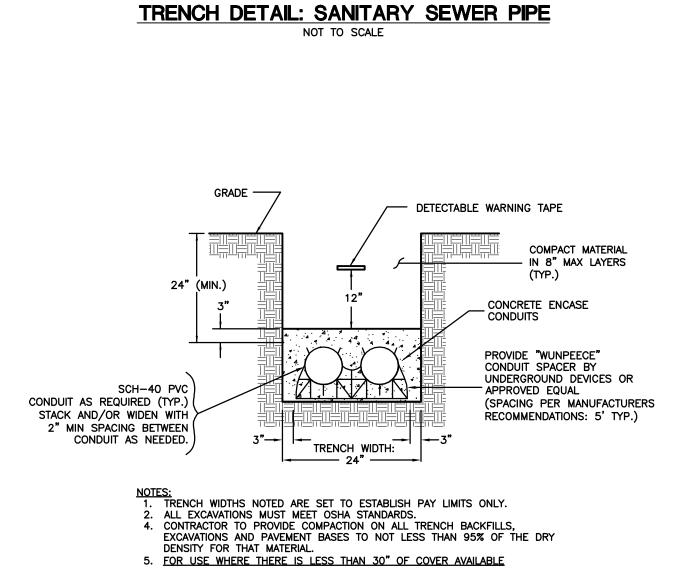
WALK MEETS EXISTING





MAN 7000 Towns 1 of 1 of 200 Towns 1 of 200 Towns 1 of 200 Towns 2





CONDUIT DUCT BANK (CONC. ENCASED) DETAIL NOT TO SCALE

TRENCH WIDTH:

NOTES:

1. D=INSIDE DIAMETER OF PIPE.
2. TRENCH WIDTHS NOTED ARE SET TO ESTABLISH PAY LIMITS ONLY.
3. ALL EXCAVATIONS MUST MEET OSHA STANDARDS.
4. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL.

(D + 2FT)

GRADE, — APPLICABLE ROADWAY SECTION PAVEMENT PATCH OR SIDEWALK

COMPACTED SUITABLE NATIVE MATERIAL OR -

6" MINIMUM _ OVER EARTH

¾" CRUSHED STONE BACKFILL AND BEDDING -

PER DOT M.01.01

TRENCH EXCAVATION

— DETECTABLE

TOP)

9" SAND

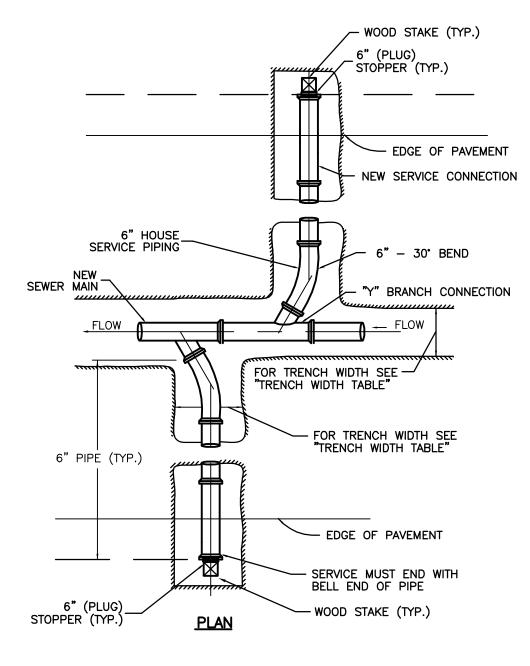
FILTER FABRIC

6" OVER TOP OF PIPE

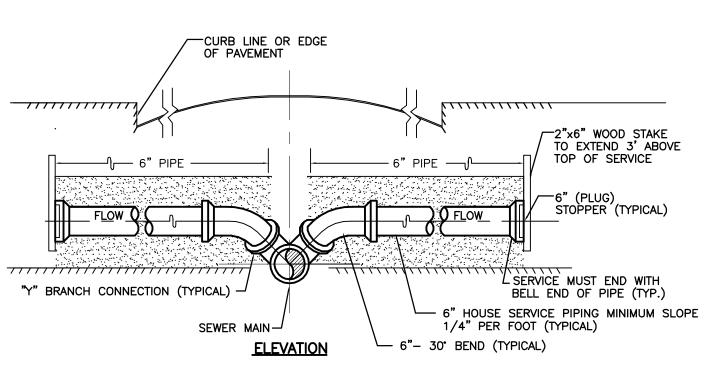
PRESHAPE BEDDING TO

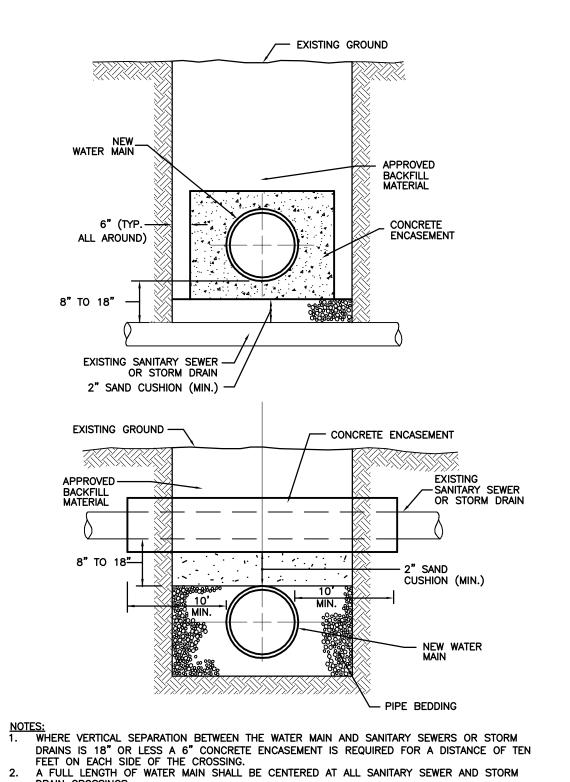
FIT PIPE CONTOUR

12" MINIMUM OVER ROCK



SERVICE CONNECTION DETAIL NOT TO SCALE





CONCRETE ENCASEMENT DETAIL

DRAIN CROSSINGS.



SCH-40 PVC CONDUIT

HOUSE SERVICE CONNECTION DETAIL

CLA

TYPICAL CONDUIT TRENCH DETAIL

5. MAINTAIN 2" SEPARATION BETWEEN MULTIPLE CONDUIT TRENCHES

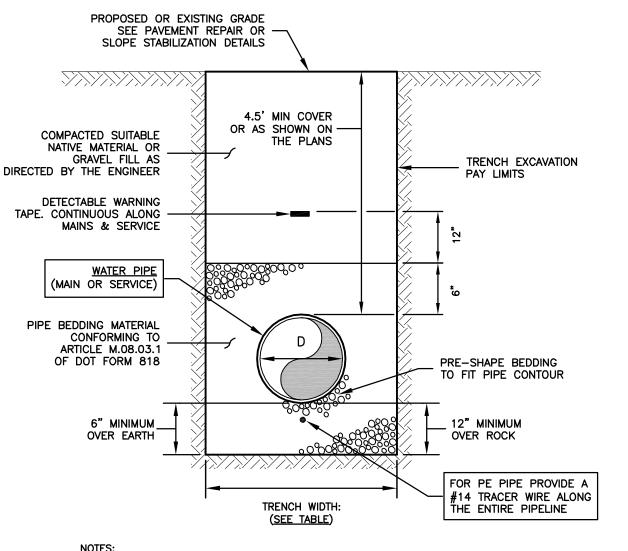
TRENCH WIDTH:

NOTES:

1. TRENCH WIDTHS NOTED ARE SET TO ESTABLISH PAY LIMITS ONLY.

2. ALL EXCAVATIONS MUST MEET OSHA STANDARDS.

4. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL.



NOTES:

1. D=INSIDE DIAMETER OF PIPE.

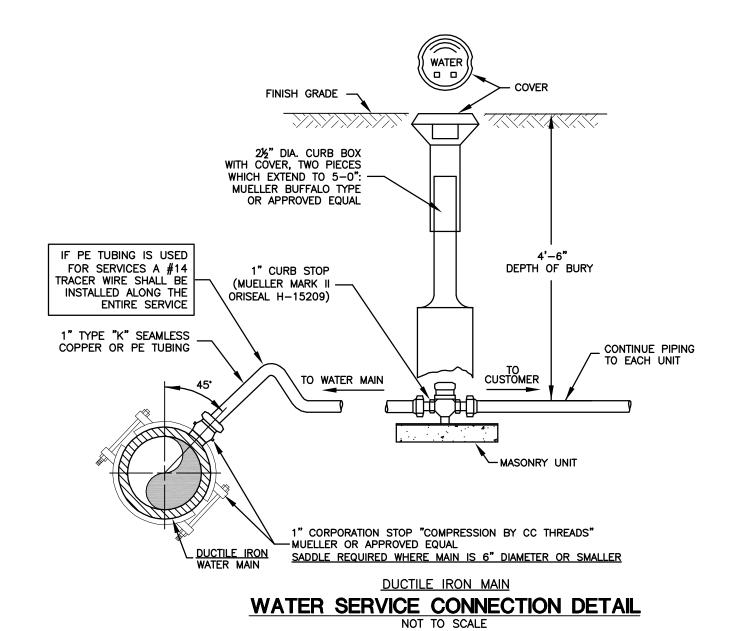
2. TRENCH WIDTHS NOTED ARE SET TO ESTABLISH PAY LIMITS ONLY.

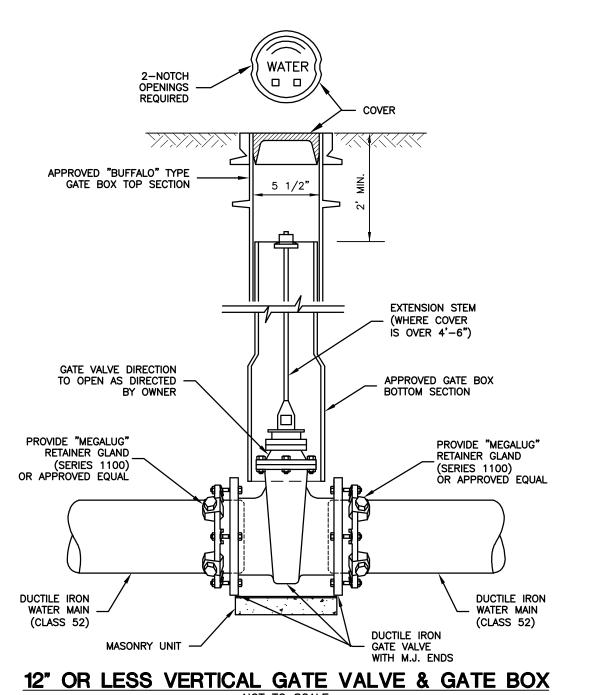
3. ALL EXCAVATIONS MUST MEET OSHA STANDARDS.

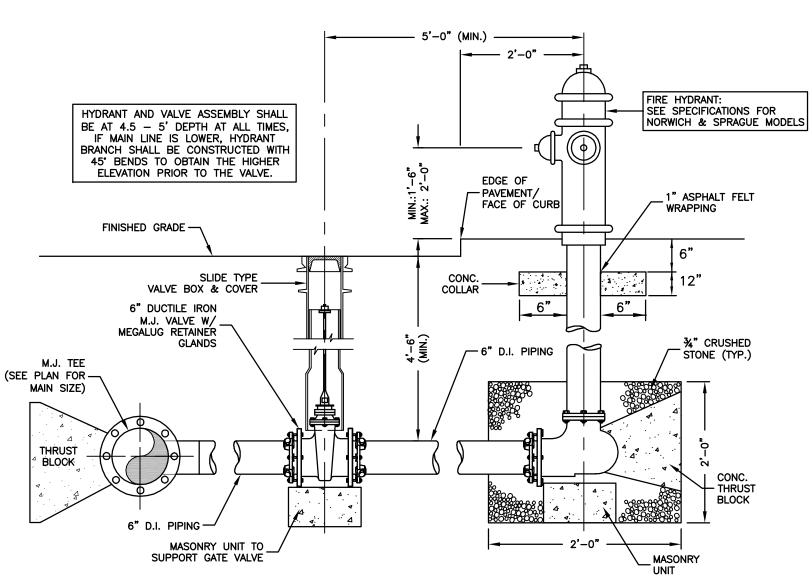
4. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL.

5. BEDDING MATERIAL TO CONFORM TO M.08.03.1 AS PER CT DOT FORM 818.

TRENCH DETAIL: WATER MAIN & SERVICE

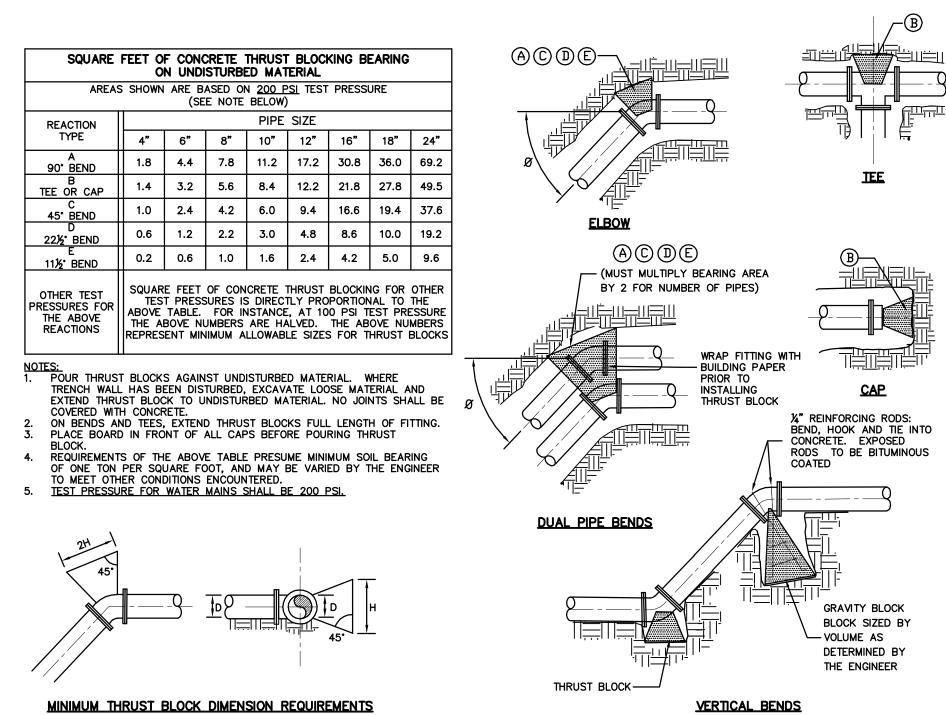






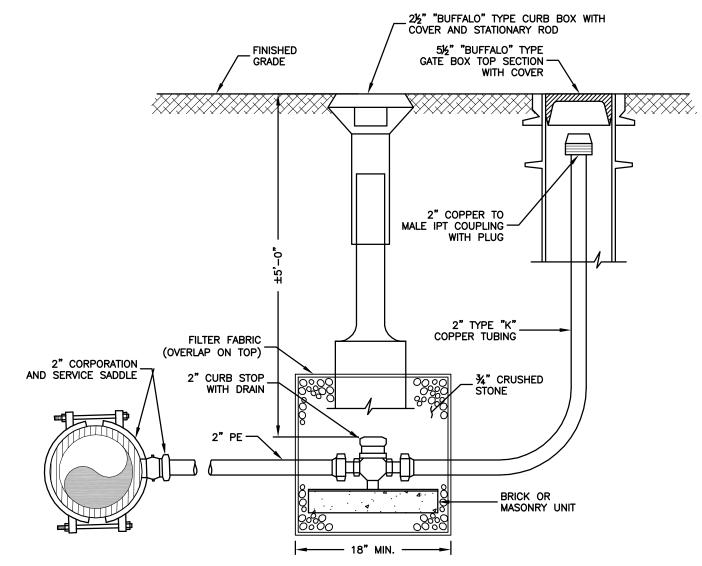
FIRE HYDRANT ASSEMBLY DETAIL

NOT TO SCALE

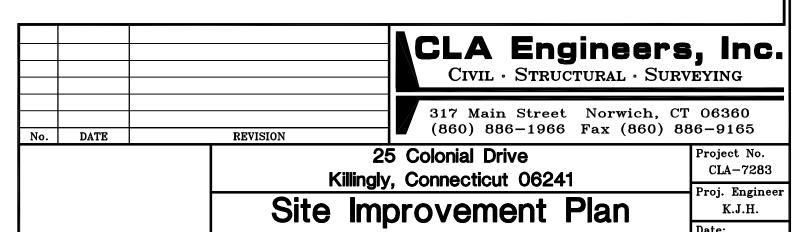


THRUST BLOCK DETAILS & DIMENSIONS

NOT TO SCALE



FLUSHING ASSEMBLY DETAIL



North Woods Village Planned Residential Development

Construction Details

7/7/2023