

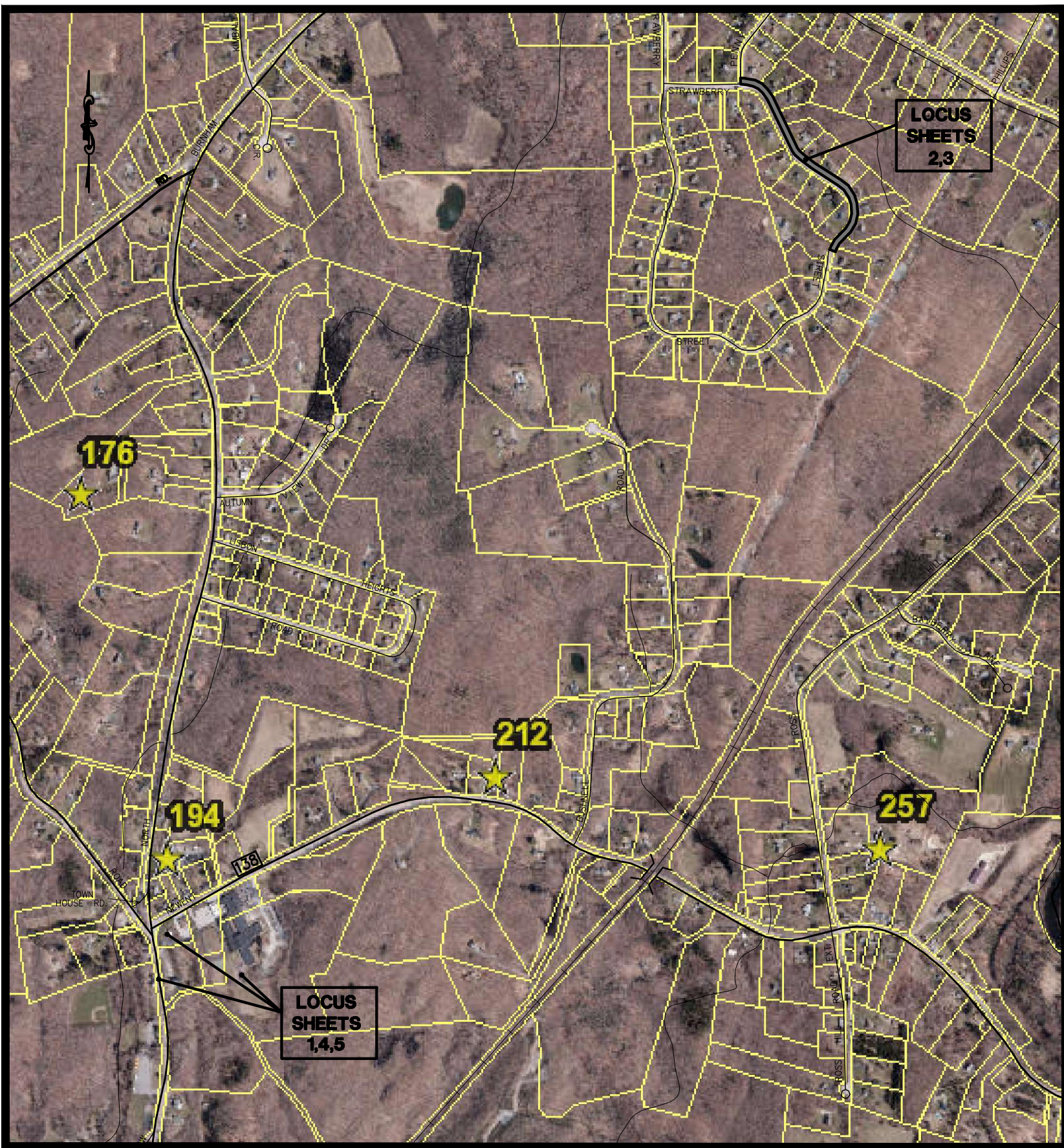
MUNICIPAL SIDEWALK IMPROVEMENTS

Town of Lisbon, Connecticut
Thomas Sparkman – First Selectman
State Project No. 0072-0085



INDEX TO DRAWINGS

DRAWING No.	DESCRIPTION OF DRAWING
1	Town Hall Sidewalk Improvements
2	Strawberry Fields Sidewalk Improvements 26+00 - 37+00
3	Strawberry Fields Sidewalk Improvements 37+00 - End
4	Community Center Sidewalk Improvements
5	ADD - ALTERNATE 1 - Central School Sidewalk Improvements
6	Construction Details & Notes
7	Construction Details & Notes



LOCATION MAP
SCALE: 1"=±1000'

LEGEND TO DRAWINGS

=====	EXISTING CATCH BASIN & CULVERT
⊕	EXISTING UTILITY POLE
⊙	EXISTING TREE OR SHRUB
~~~~~	EXISTING TREE / SHRUB LINE
-----	FENCE
-----	STONE WALL
-----	RETAINING WALL
-----	CONTOUR ELEVATION
-----	OVERHEAD WIRES
-----	EXISTING SEWER & MANHOLE COVER
-----	EXISTING WATER SERVICE/MAIN & VALVE AND SHUTOFF
-----	PROPERTY LINE
-----	PROPOSED SILT FENCE
-----	EDGE OF WETLANDS
FEU	FLARED END UNIT
⊙	MANHOLE
⊙	CATCHBASIN
⊙	SIGN
⊙	HYDRANT
DH	DRILL HOLE
IPIN, IP	IRON PIN, IRON PIPE
MS, CHD, MON	MERE STONE, Conn. HIGHWAY MONUMENT, CONC. MONUMENT
* *	LAMPS

REVISED: MARCH 6, 2024  
REVISED: JANUARY 12, 2024  
REVISED: SEPTEMBER 19, 2023  
REVISED: SEPTEMBER 14, 2023  
AUGUST 19, 2023

GOVERNING SPECIFICATION:  
PROJECT MANUAL & SPECIFICATIONS  
MUNICIPAL SIDEWALK IMPROVEMENTS  
PROJECT NO. 0072-0085  
TOWN OF LISBON  
REVISED: JANUARY 12,2024

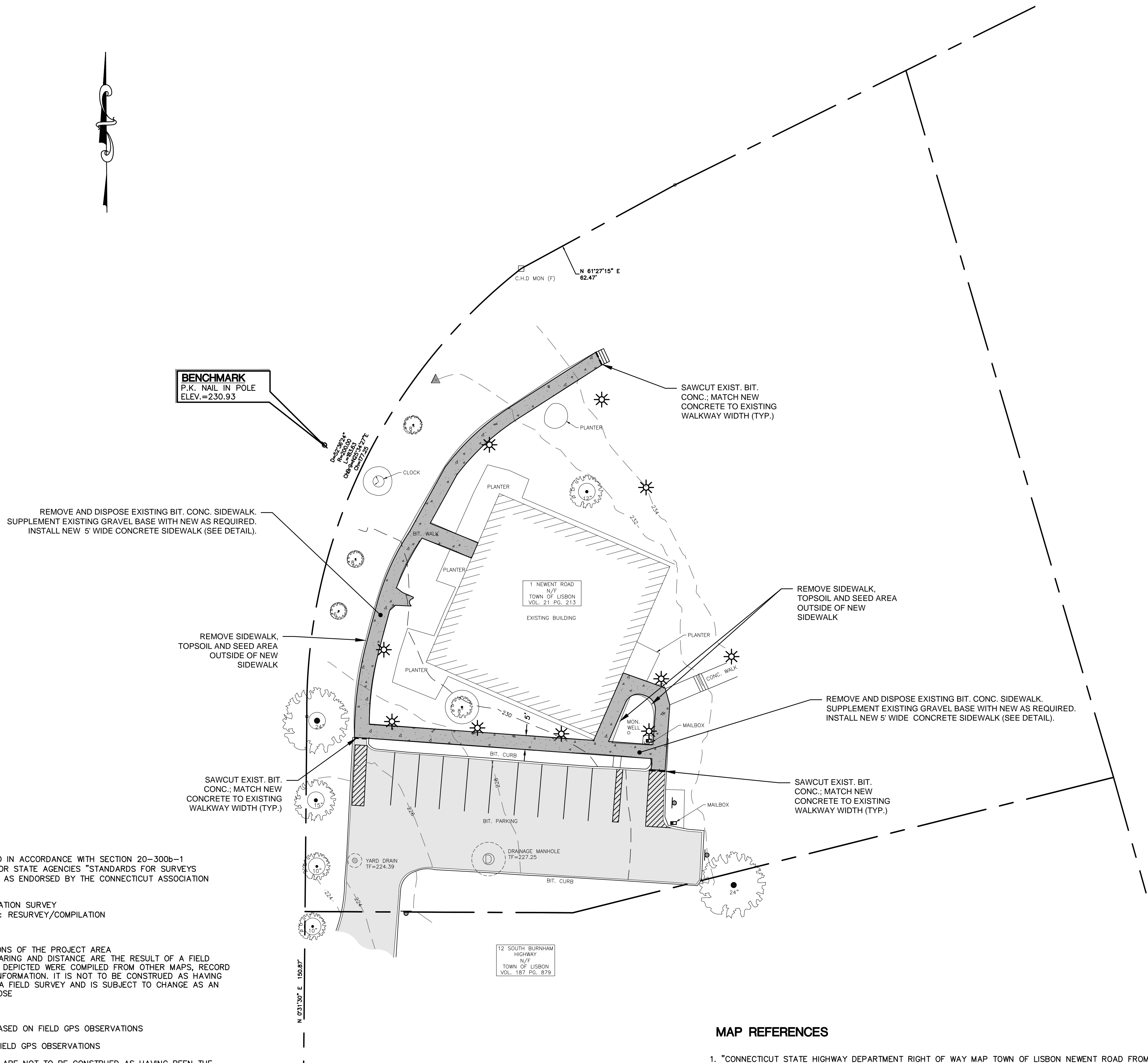
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(860) 886-1966 Fax (860) 886-9165







LOCATION MAP  
(NOT TO SCALE)



#### SURVEY NOTES

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  - VERTICAL ACCURACY: V-2
  - TOPOGRAPHIC ACCURACY: T-2
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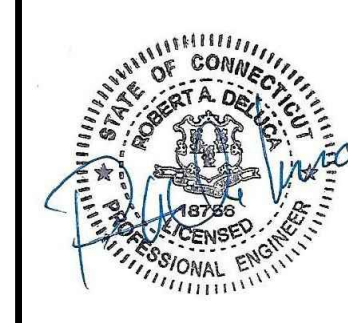
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4.	3/6/2024	MISC. REVISION
3.	1/12/2024	REVISED PER STATE COMMENTS
2.	9/19/2023	MISC. REVISION
1.	9/14/2023	MISC. REVISION
No.	DATE	REVISION

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TOWN OF LISBON  
**MUNICIPAL SIDEWALK  
IMPROVEMENTS**  
STATE PROJECT NO. 0072-0085  
Town Hall Sidewalk Improvements

Project No.  
CLA-7528  
Proj. Engineer  
R.A.D.  
Date:  
8/19/2023  
Sheet No.  
**1**



PROJECT BEGIN

STRAWBERRY STREET

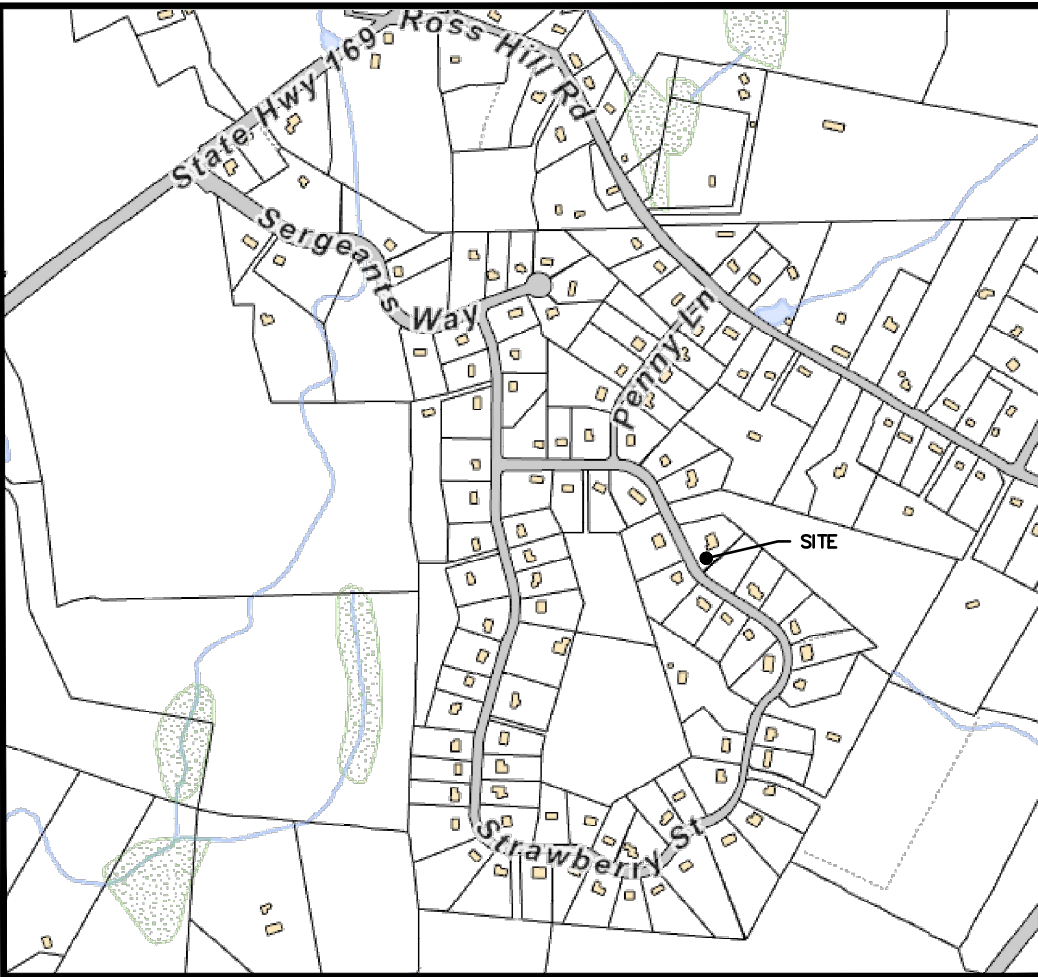
N/F  
JOHN G. &  
SHARON A. CLINE  
117 Strawberry St.  
114/966

REMOVE AND DISPOSE EXISTING BIT. CONC. SIDEWALK.  
COMPACT EXISTING GRAVEL BASE AND REMOVE SURPLUS IF NECESSARY.  
IF IN THE OPINION OF THE ENGINEER, THE EXISTING GRAVEL BASE IS  
UNSUITABLE FOR RE-USE, REMOVE AND DISPOSE UNSUITABLE MATERIAL  
AND REPLACE WITH NEW PROCESSED GRAVEL BASE.  
INSTALL NEW 4' WIDE CONCRETE SIDEWALK (SEE DETAIL).

N/F  
ADAM &  
AMANDA E. CHITTICK  
119 Strawberry St.  
160/875

INSTALL TOOLED JOINT AT GRADE  
CHANGE (TYP.)

Match Line  
(See Below)



LOCATION MAP  
1" = 1000'

REMOVE AND DISPOSE EXISTING BIT. CONC. SIDEWALK.  
COMPACT EXISTING GRAVEL BASE AND REMOVE SURPLUS IF NECESSARY.  
IF IN THE OPINION OF THE ENGINEER, THE EXISTING GRAVEL BASE IS  
UNSUITABLE FOR RE-USE, REMOVE AND DISPOSE UNSUITABLE MATERIAL  
AND REPLACE WITH NEW PROCESSED GRAVEL BASE.  
INSTALL NEW 4' WIDE CONCRETE SIDEWALK (SEE DETAIL).

REGRADE SHOULDER.  
LOAM AND SEED ALL  
DISTURBED AREAS (TYP.)  
(SEE DETAIL)

N/F  
RYAN &  
AMANDA G. EVANS  
123 Strawberry St.  
169/574

N/F  
ALBERT J. KOZIOL JR. &  
ANN KOZIOL  
127 Strawberry St.  
174/260

INSTALL NEW CONC. DRIVEWAY APRON.  
MATCH EXIST. ROAD (TYP.)

N/F  
BRETT J. &  
CRYSTAL D. PETROW  
129 Strawberry St.  
174/429

Match Line  
(See Above)

STRAWBERRY STREET

N/F  
BRETT J. &  
CRYSTAL D. PETROW  
129 Strawberry St.  
174/429

INSTALL TOOLED JOINT AT GRADE  
CHANGE (TYP.)

N/F  
KEVIN R. &  
VICTORIA E. SCHMIDT  
133 Strawberry St.  
173/688

N/F  
KEVIN R. &  
VICTORIA E. SCHMIDT  
133 Strawberry St.  
173/688

N/F  
MICHELLE MELLOR  
139 Strawberry St.  
171/570

SAWCUT EXIST. BIT.  
CONC. DRIVEWAY APRON  
(TYP.)

N/F  
LYNNE K. LOVE  
147 Strawberry St.  
171/570

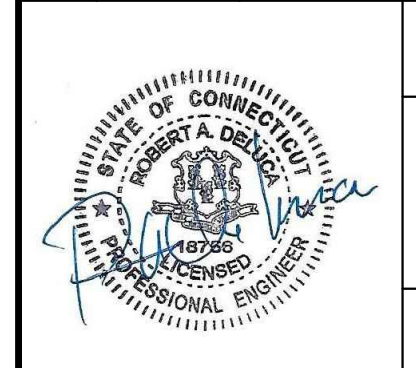
Match Line  
(Sheet 5)

SCALE: 1"=20'

4.	3/6/2024	MISC. REVISION
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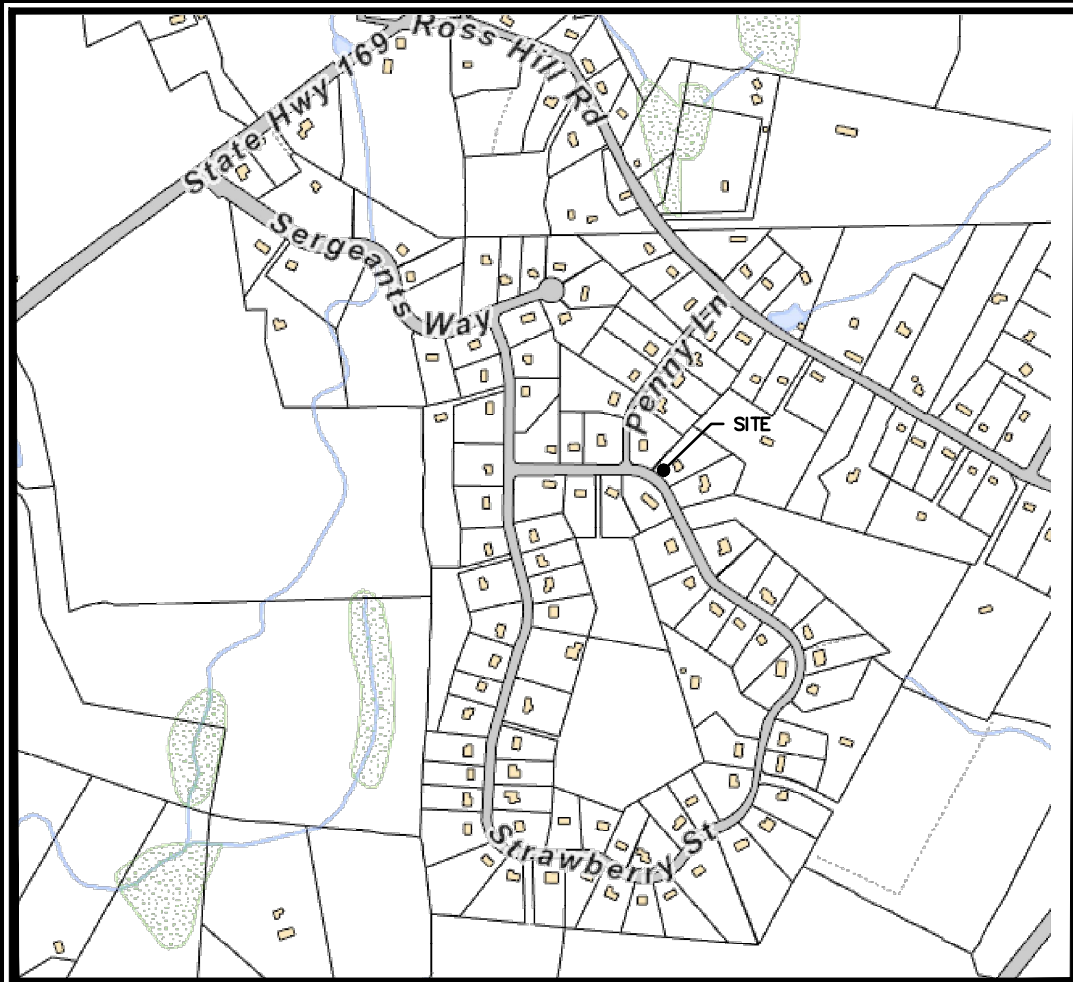
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(860) 886-1966 Fax (860) 886-9165



TOWN OF LISBON  
**MUNICIPAL SIDEWALK  
IMPROVEMENTS**  
STATE PROJECT NO. 0072-0085  
Phase 4 Strawberry Fields Sidewalk Improvements  
24+00 - 36+00

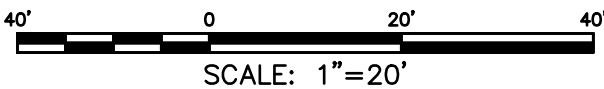
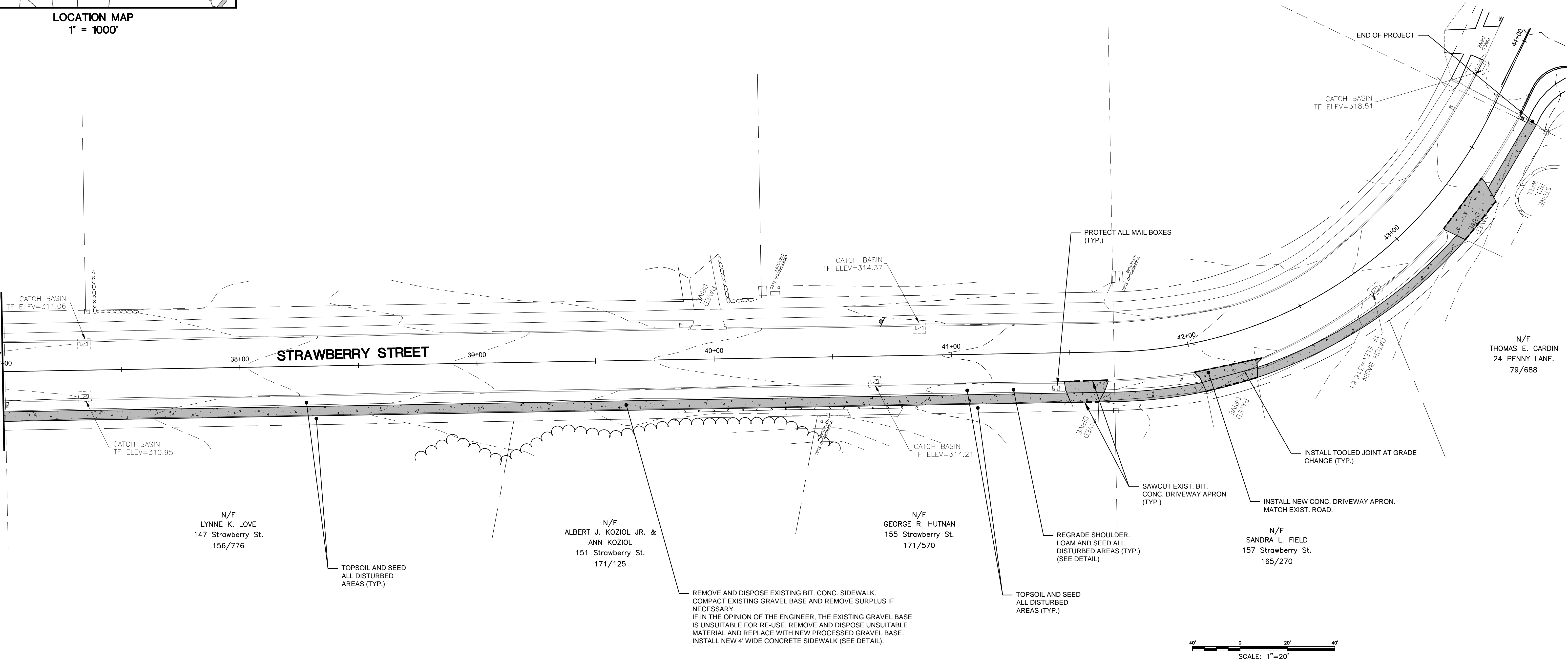
Project No.  
CLA-7528  
Proj. Engineer  
R.A.D.  
Date:  
8/19/2023  
Sheet No.  
**2**






LOCATION MAP  
1" = 1000'

Match Line (Sheet 4)



4.	3/6/2024	MISC. REVISION
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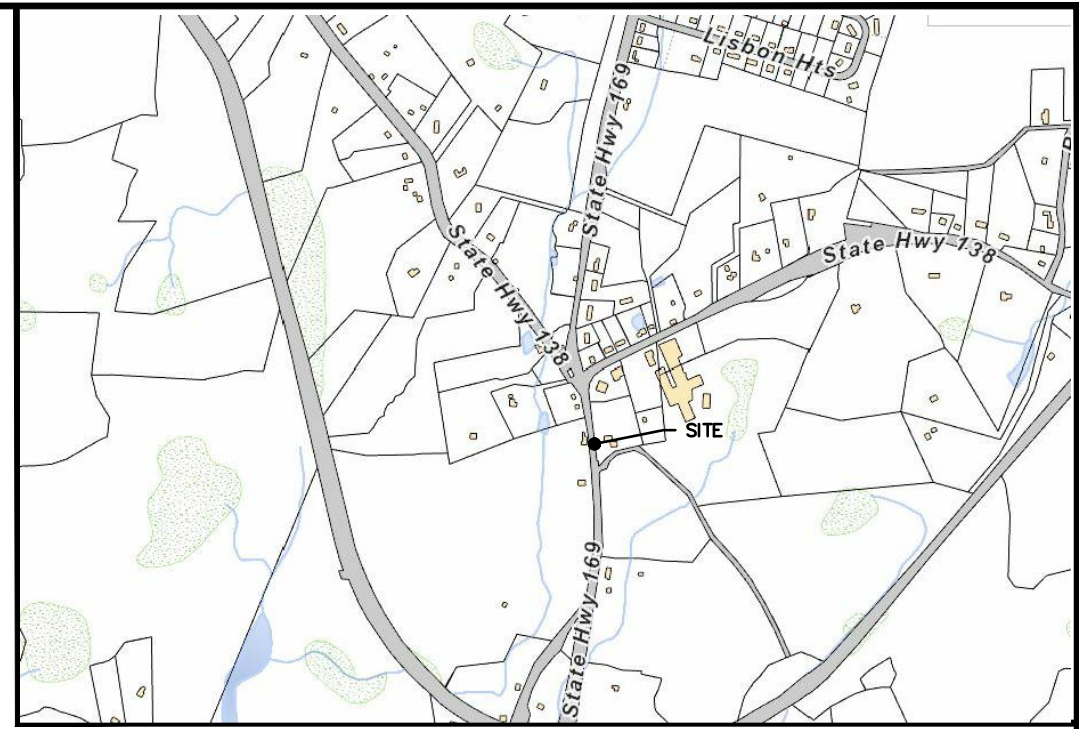
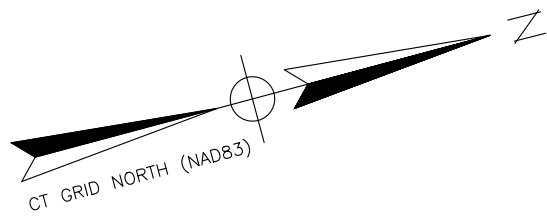
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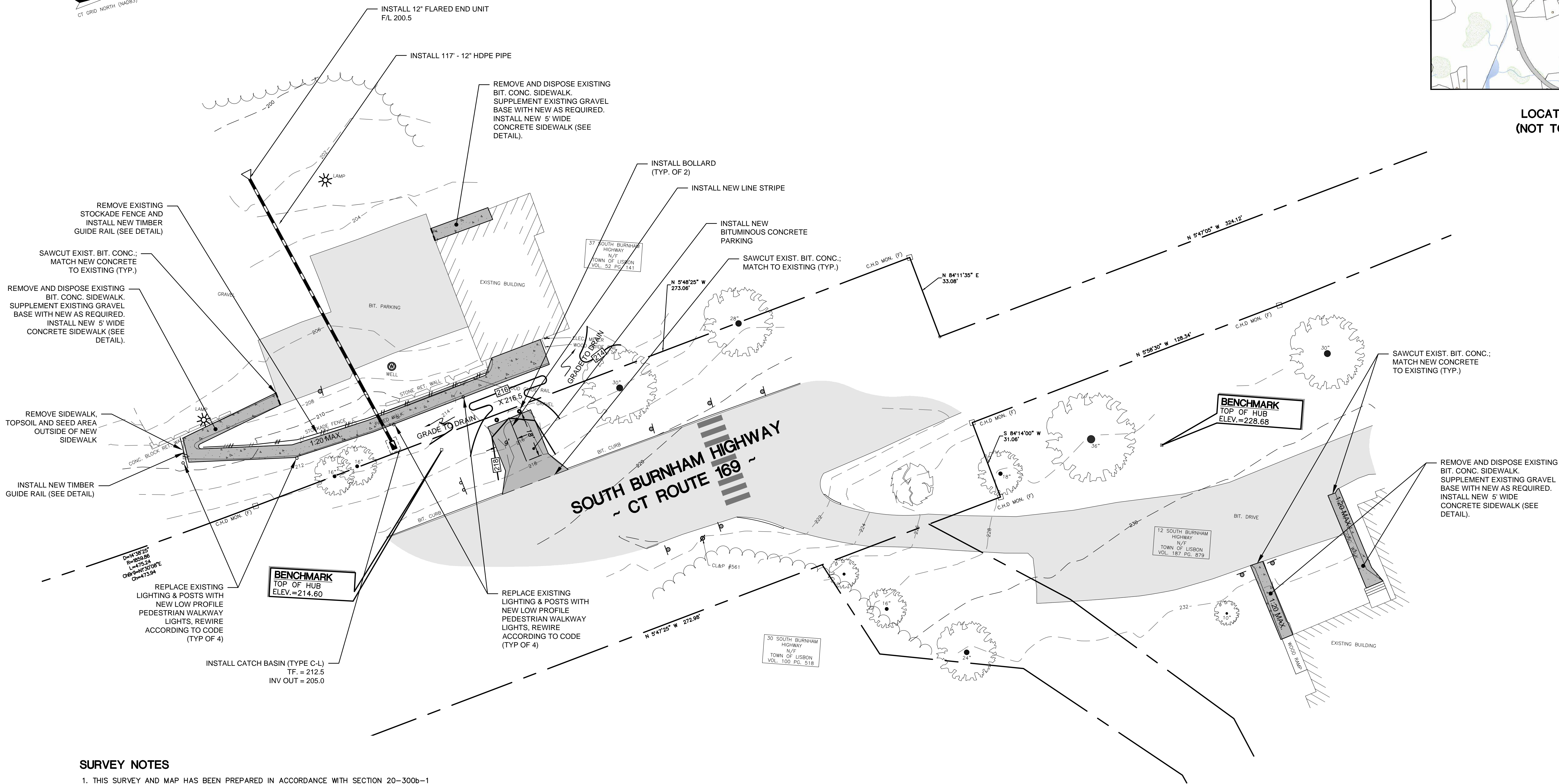
**TOWN OF LISBON**  
**MUNICIPAL SIDEWALK IMPROVEMENTS**  
**STATE PROJECT NO. 0072-0085**  
Phase 4 Strawberry Fields Sidewalk Improvements  
37+00 - End

Project No.  
CLA-7528  
Proj. Engineer  
R.A.D.  
Date:  
8/19/2023  
Sheet No.  
**3**





LOCATION MAP  
(NOT TO SCALE)



#### SURVEY NOTES

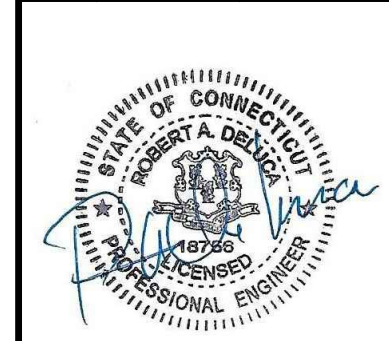
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4.	3/6/2024	MISC. REVISION
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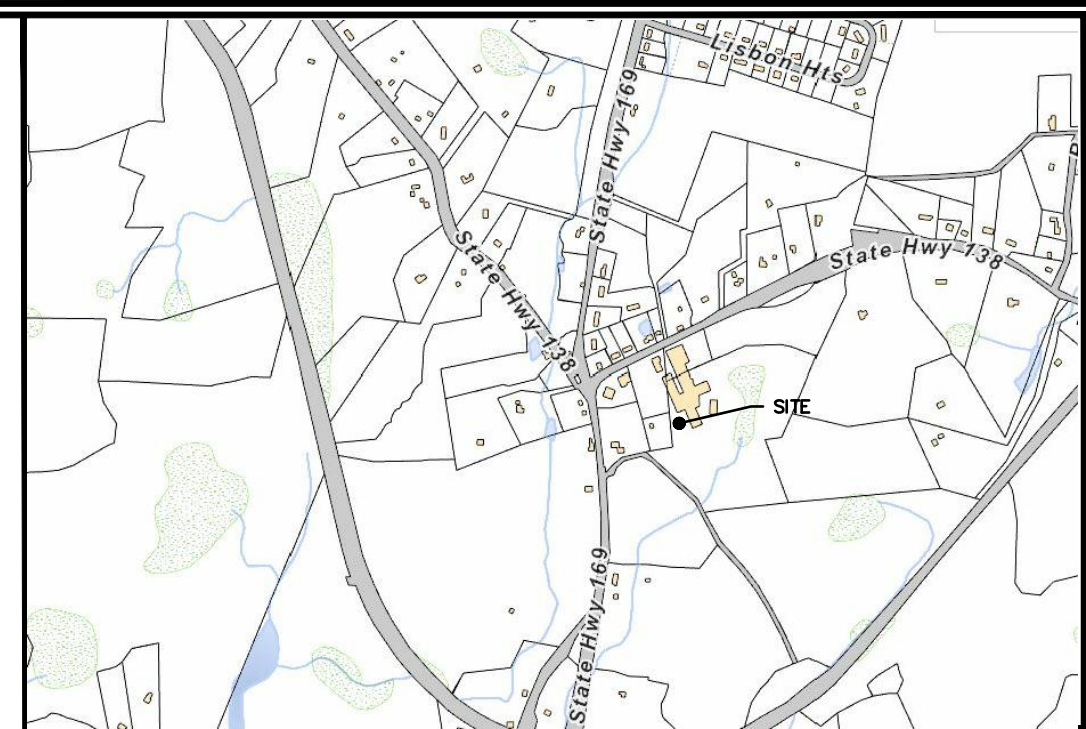
TOWN OF LISBON  
**MUNICIPAL SIDEWALK  
IMPROVEMENTS**  
**STATE PROJECT NO. 0072-0085**  
Community Center Sidewalk Improvements

Project No.  
CLA-7528  
Proj. Engineer  
R.A.D.  
Date:  
8/19/2023  
Sheet No.

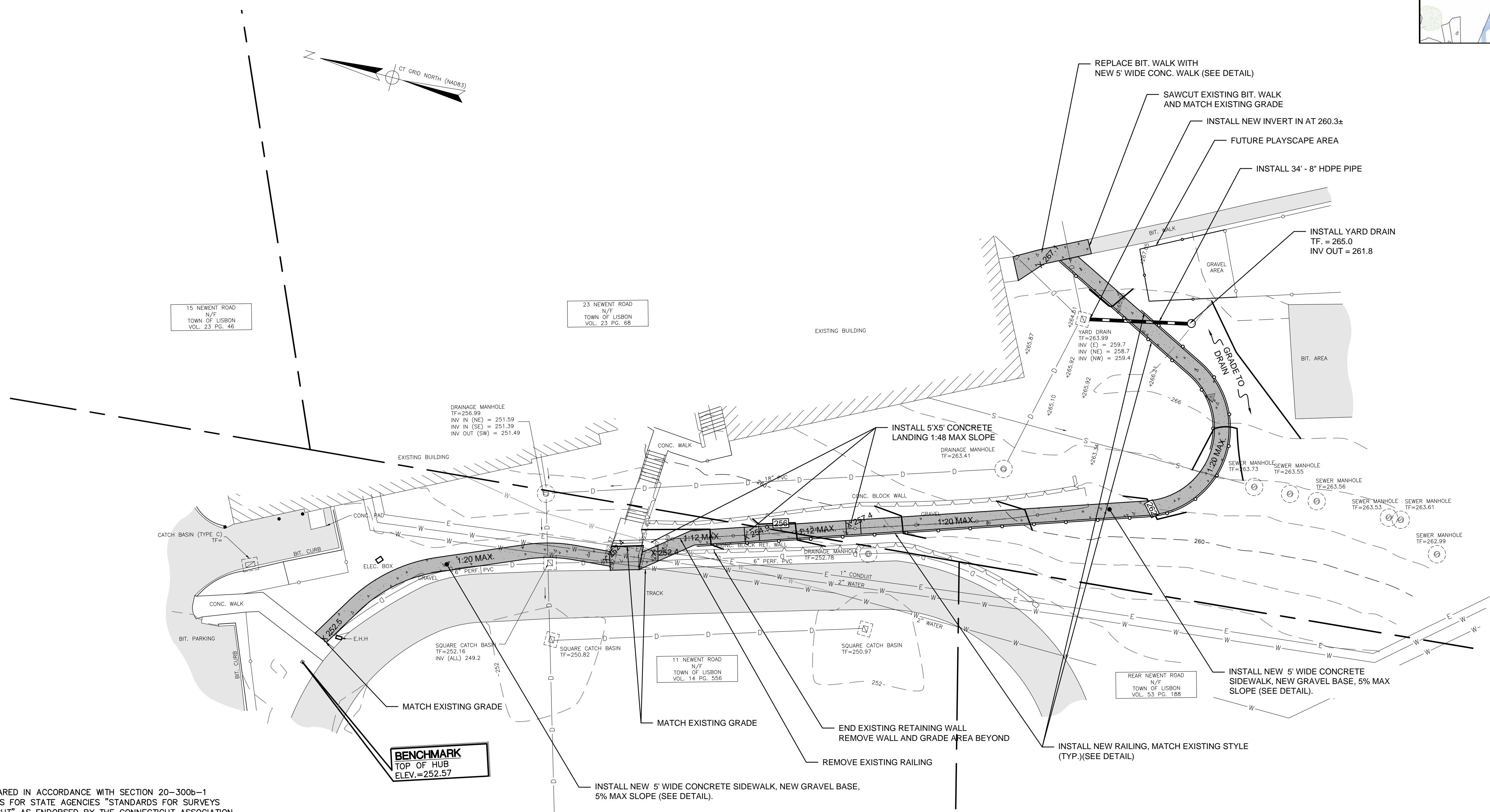
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CLA





LOCATION MAP  
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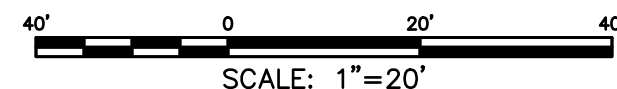


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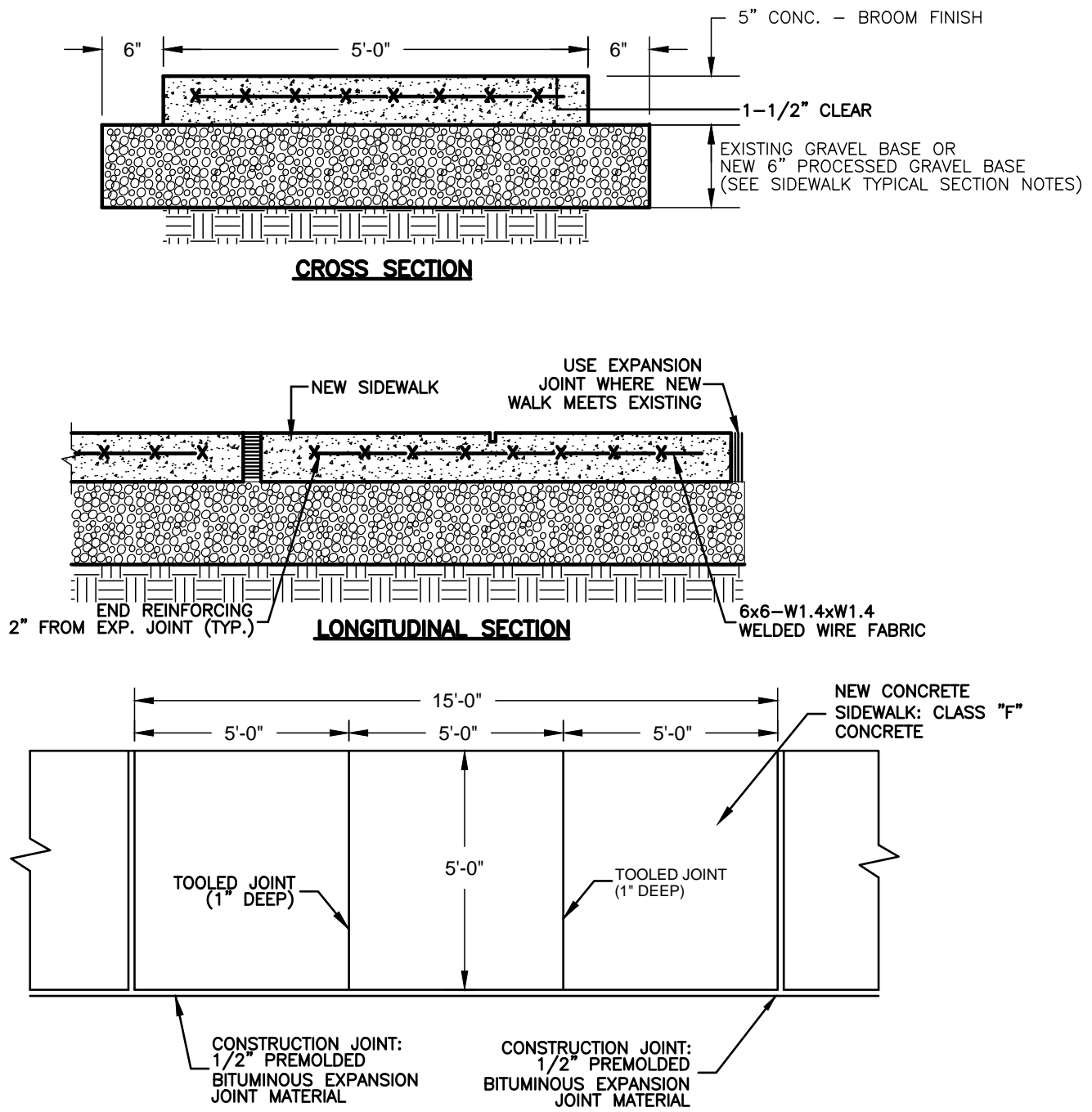
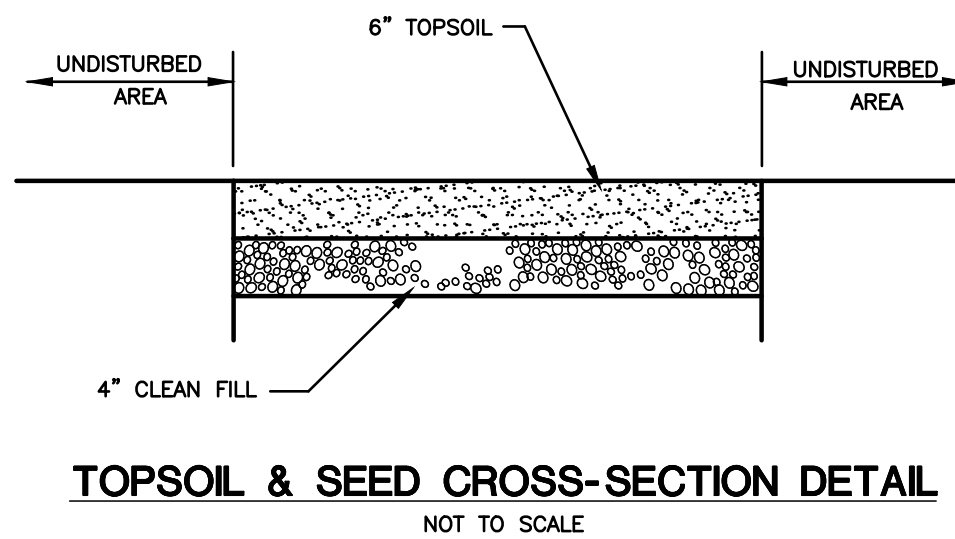
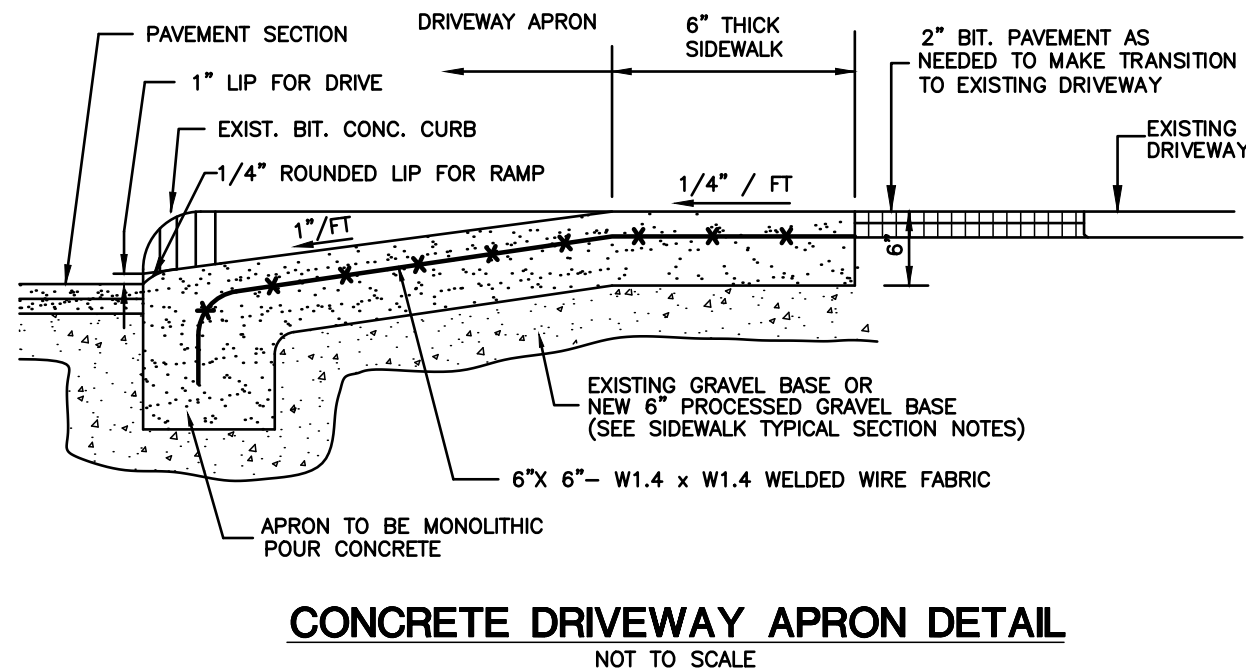
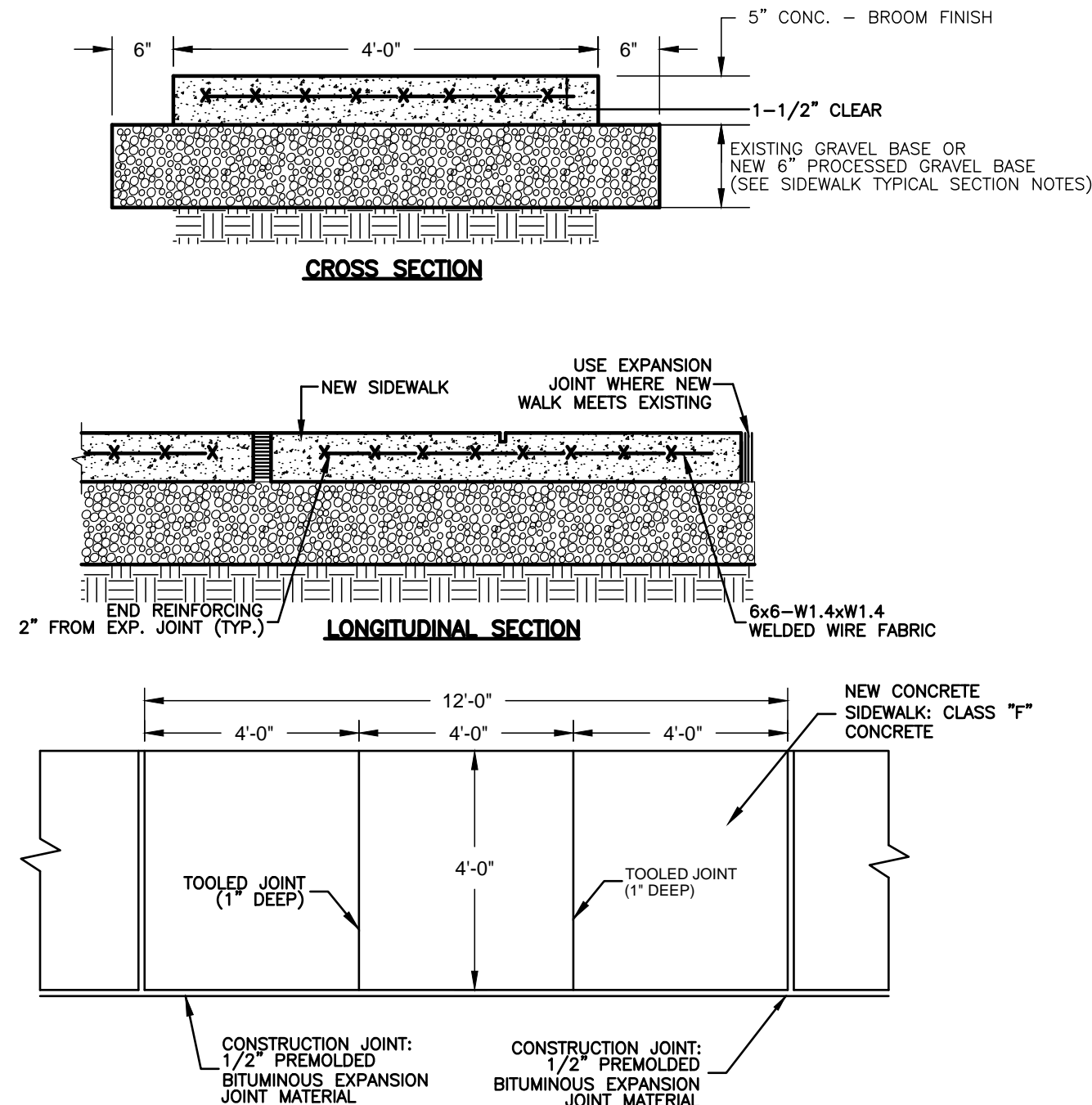
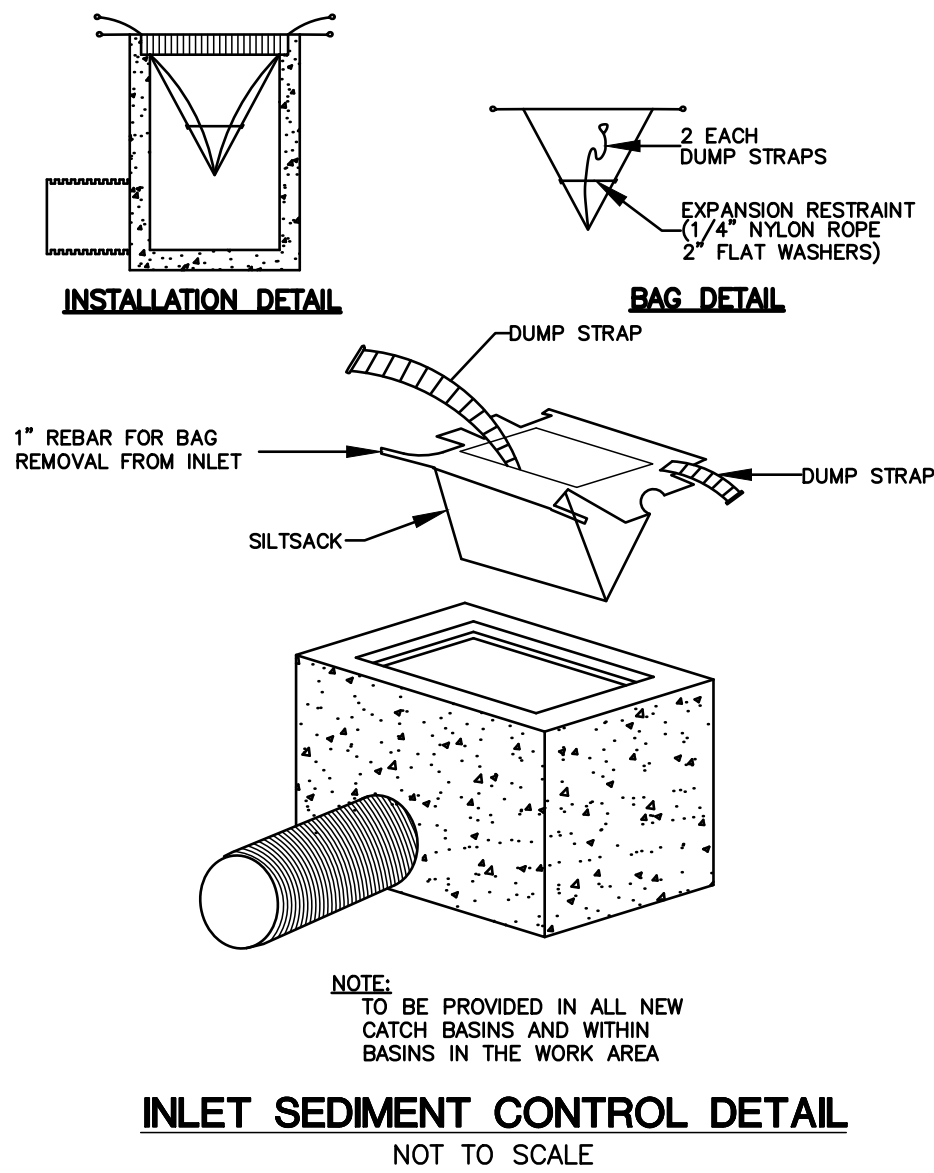
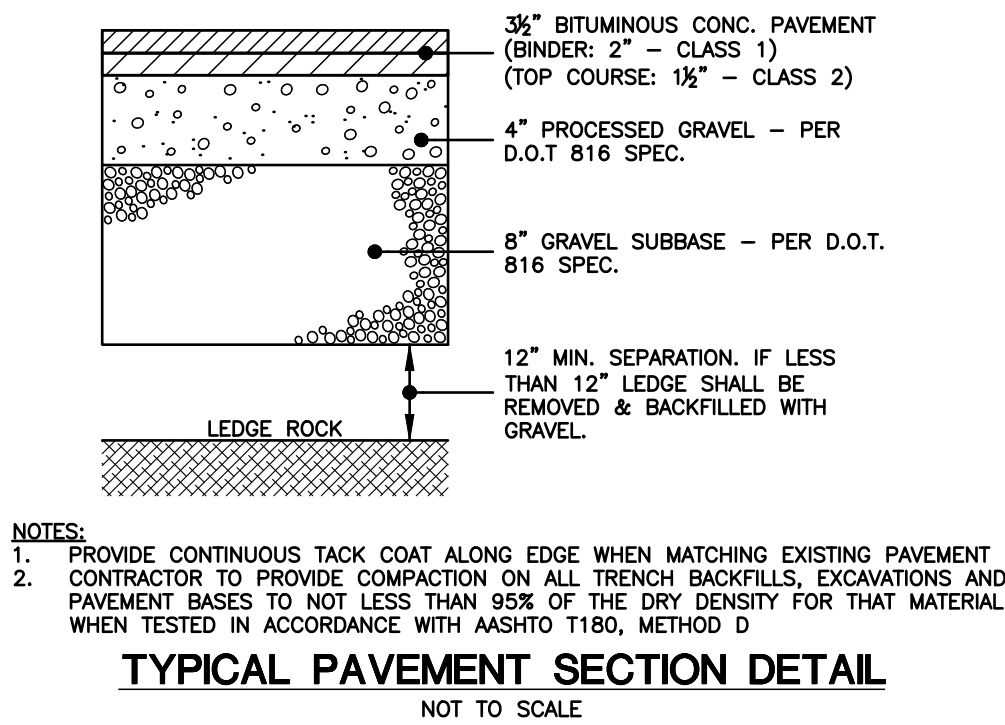
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	TOWN OF LISBON		Project No. CLA-7528
	MUNICIPAL SIDEWALK IMPROVEMENTS		Proj. Engineer R.A.D.
	STATE PROJECT NO. 0072-0085		Date: 8/19/2023
	ADD - ALTERNATE 1		Sheet No.
	Central School Sidewalk Improvements		5



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 DEEP."
2. THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE 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. TOWN STAFF SHALL REVIEW AND APPROVE THE INSTALLATION PRIOR TO EXCAVATION.
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).
6. INLET SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED UNDER THE GRATES OF ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION, AND UNDER THE GRATES OF EXISTING CATCH BASINS IN THE CONSTRUCTION AREA.
7. 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.
8. IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER DISCHARGE SHALL BE PROVIDED.
9. 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 WITHIN 10 FEET OF THE STREAM BED AND THAT ARE SLOPED MORE THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
10. 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.
11. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISHED GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.
12. 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.
13. 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.
14. 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 DEEP."
15. THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATION FOR THE PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS.



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 4 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 LESTONE 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 S.F.. WORK LESTONE INTO THE SOIL TO A DEPTH OF 6 INCHES. INSPECT SEEDBED BEFORE SEEDING. IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS. APPLY THE FOLLOWING GRASS SEED MIX:

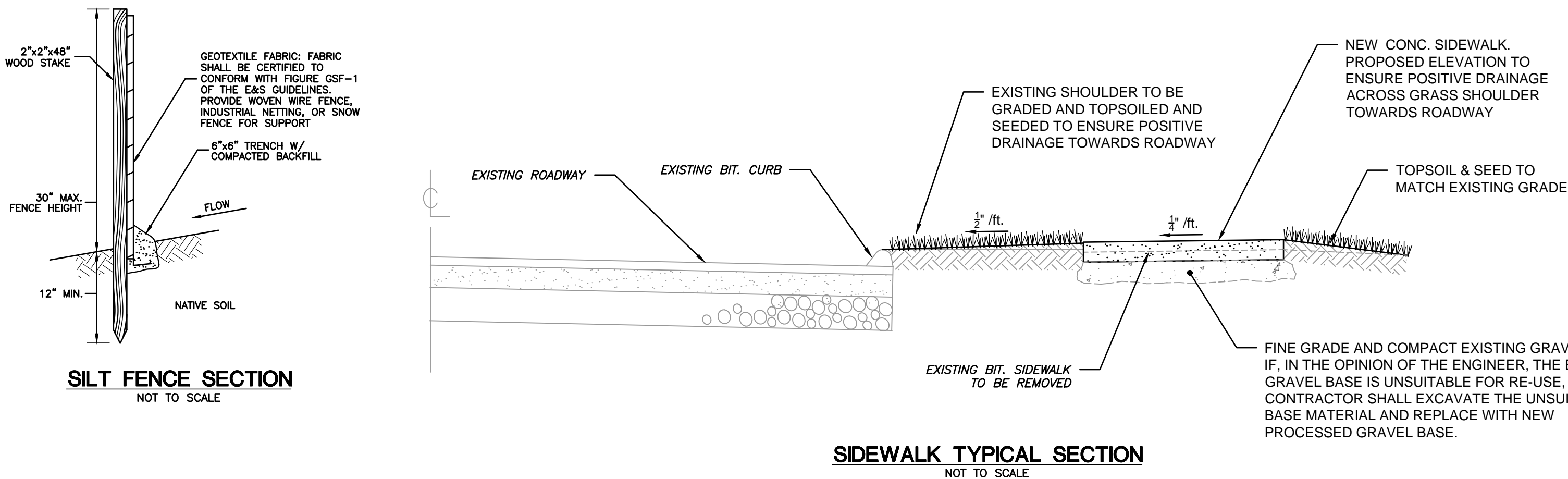
SEED MIXTURE

3:1 SLOPES OR GREATER DEEP SEED MIX NO. 3:	LBS./ACRE	LBS./1000 S.F.
CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	20	0.45
BIRD'S FOOT TREFOIL (EMPIRE, VIKING) W/ INOCULANT	8	0.20
TALL FESCUE (KENTUCKY 31) OR SMOOTH BROMEGRASS (SARATOGA, LINCOLN)	20 45	0.45 1.00
REMAINDER OF DISTURBED AREAS	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYEGRASS	5 45	0.10 1.00

THE RECOMMENDED SEEDING DATES ARE:

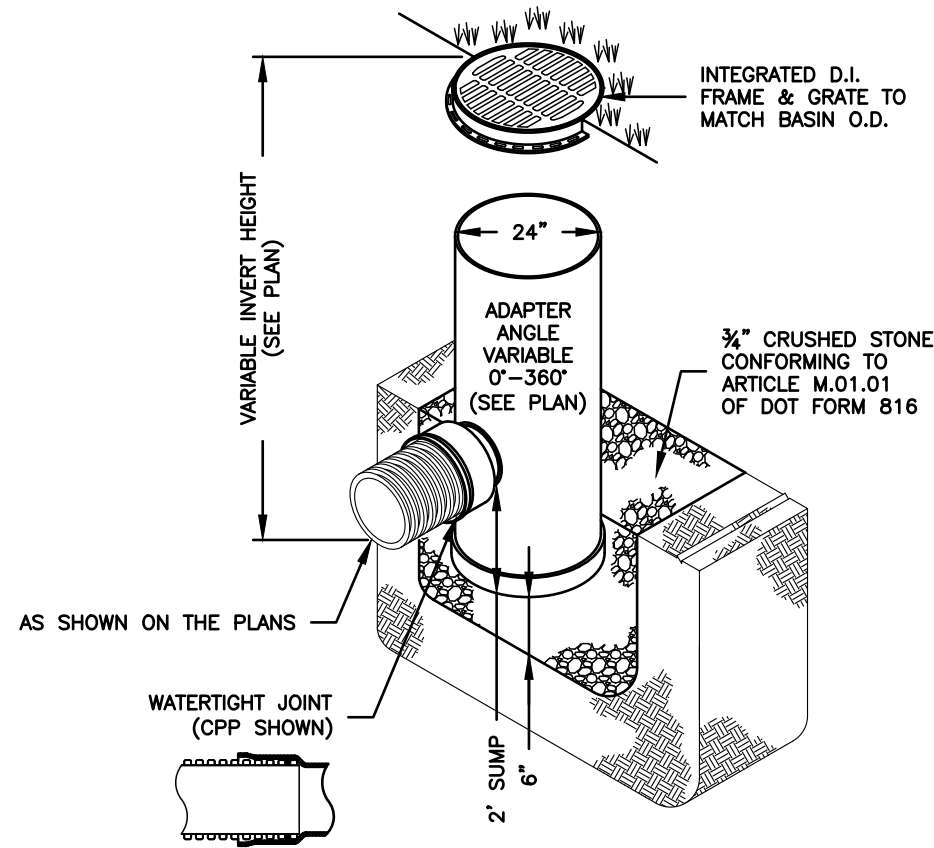
APRIL 1 - JUNE 15  
AUGUST 15 - OCTOBER 15

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 SEPTEMBER 30, APPLY A TEMPORARY VEGETATIVE COVER ON THE TOPSOIL.



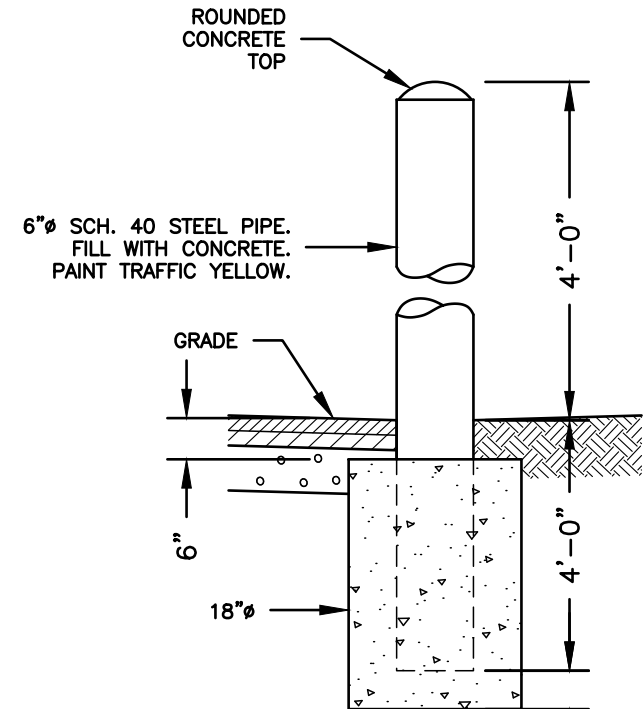
CLA Engineers, Inc.				CIVIL • STRUCTURAL • SURVEYING	
317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165				Project No. CLA-7528	
TOWN OF LISBON				Proj. Engineer R.A.D.	
MUNICIPAL SIDEWALK IMPROVEMENTS				Date: 8/19/2023	
STATE PROJECT NO. 0072-0085				Sheet No. 6	
Construction Details & Notes					



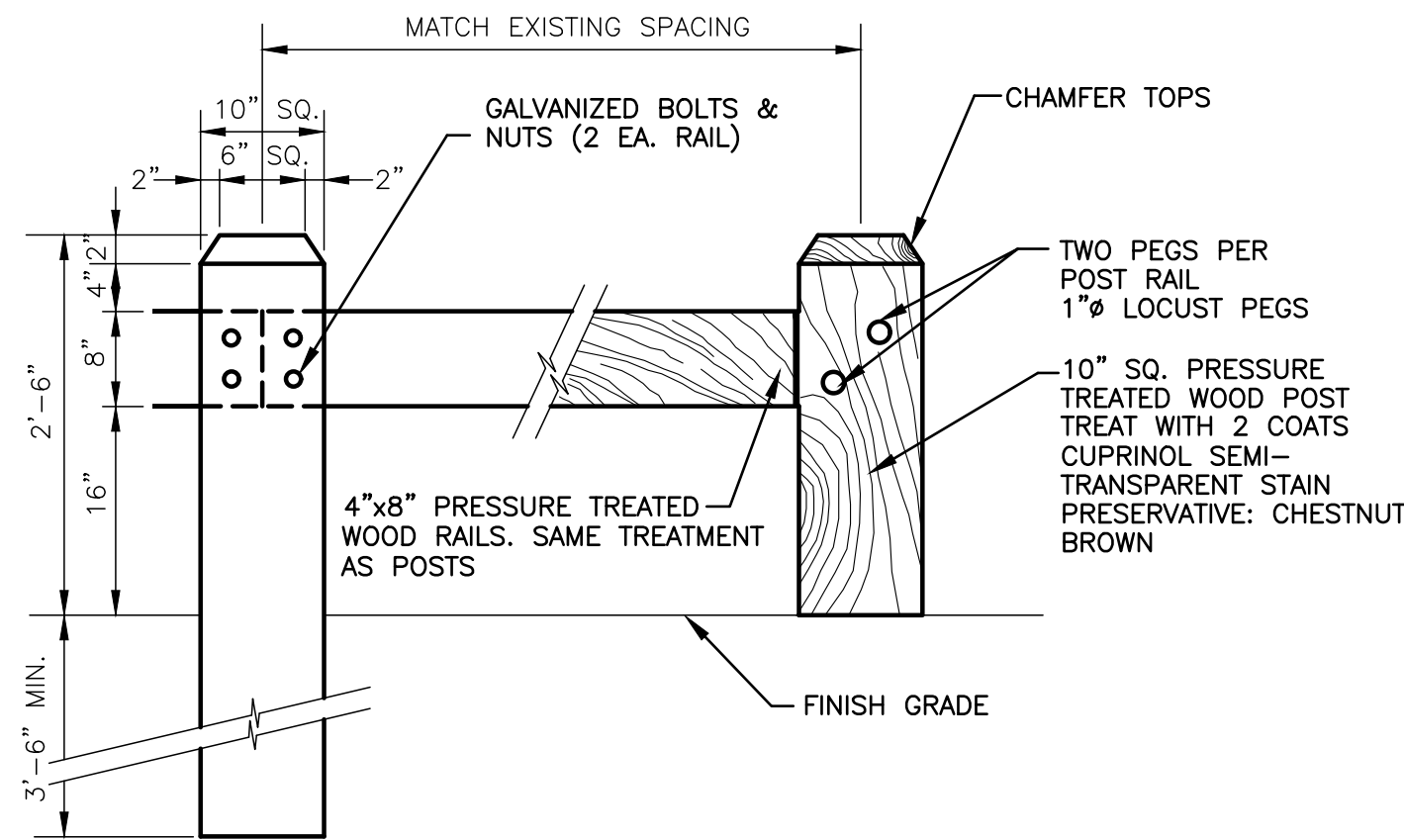


1. YARD DRAIN SHALL BE NYLOPLAST DRAIN BASIN WITH STANDARD GRATE MANUFACTURED BY ADS OR APPROVED EQUAL.
2. GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER (4" - 24").
5. ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°.
6. FOR LIGHT DUTY LOADING (NON-TRAFFIC)

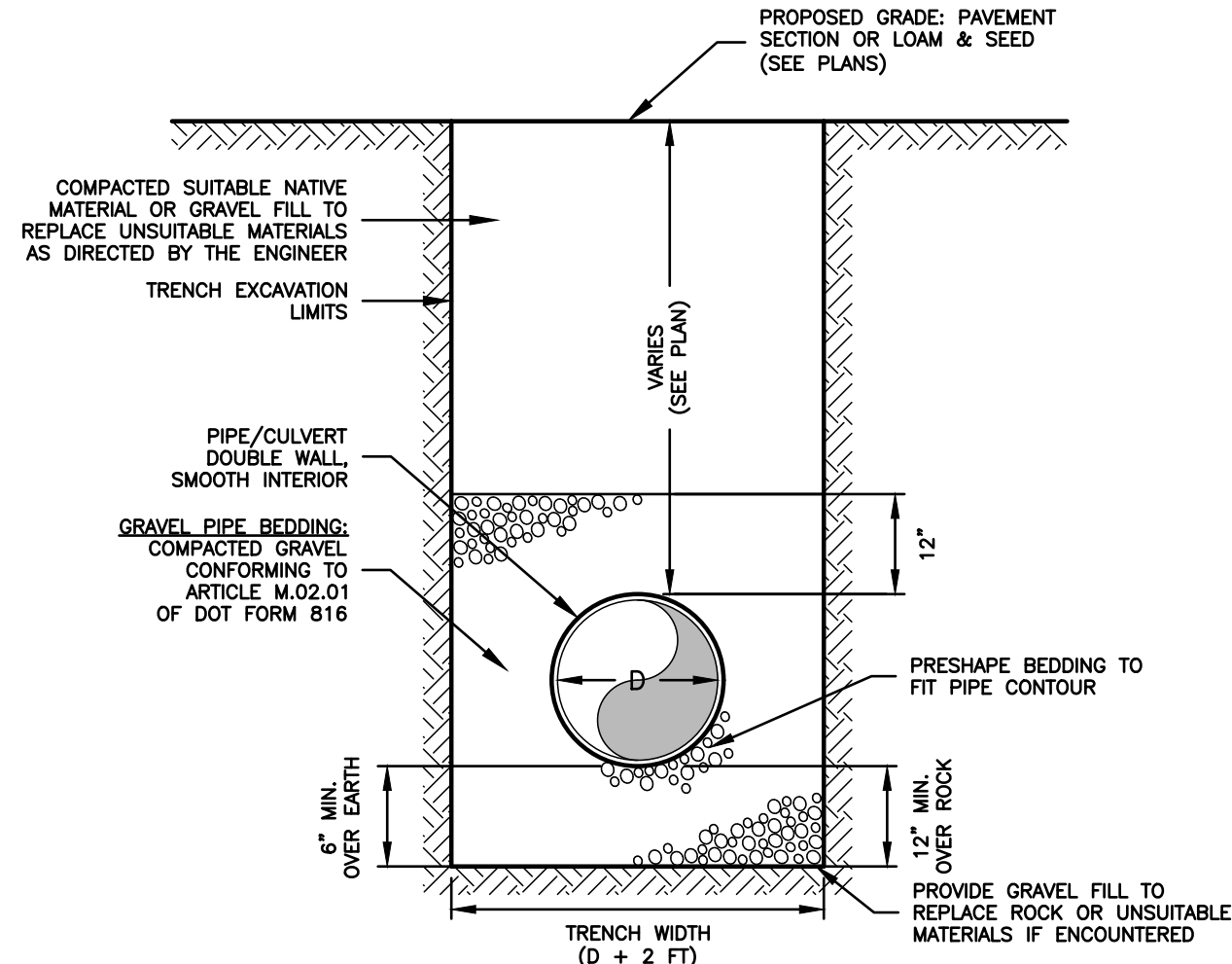
YARD DRAIN DETAIL  
NOT TO SCALE



BOLLARD DETAIL  
NOT TO SCALE

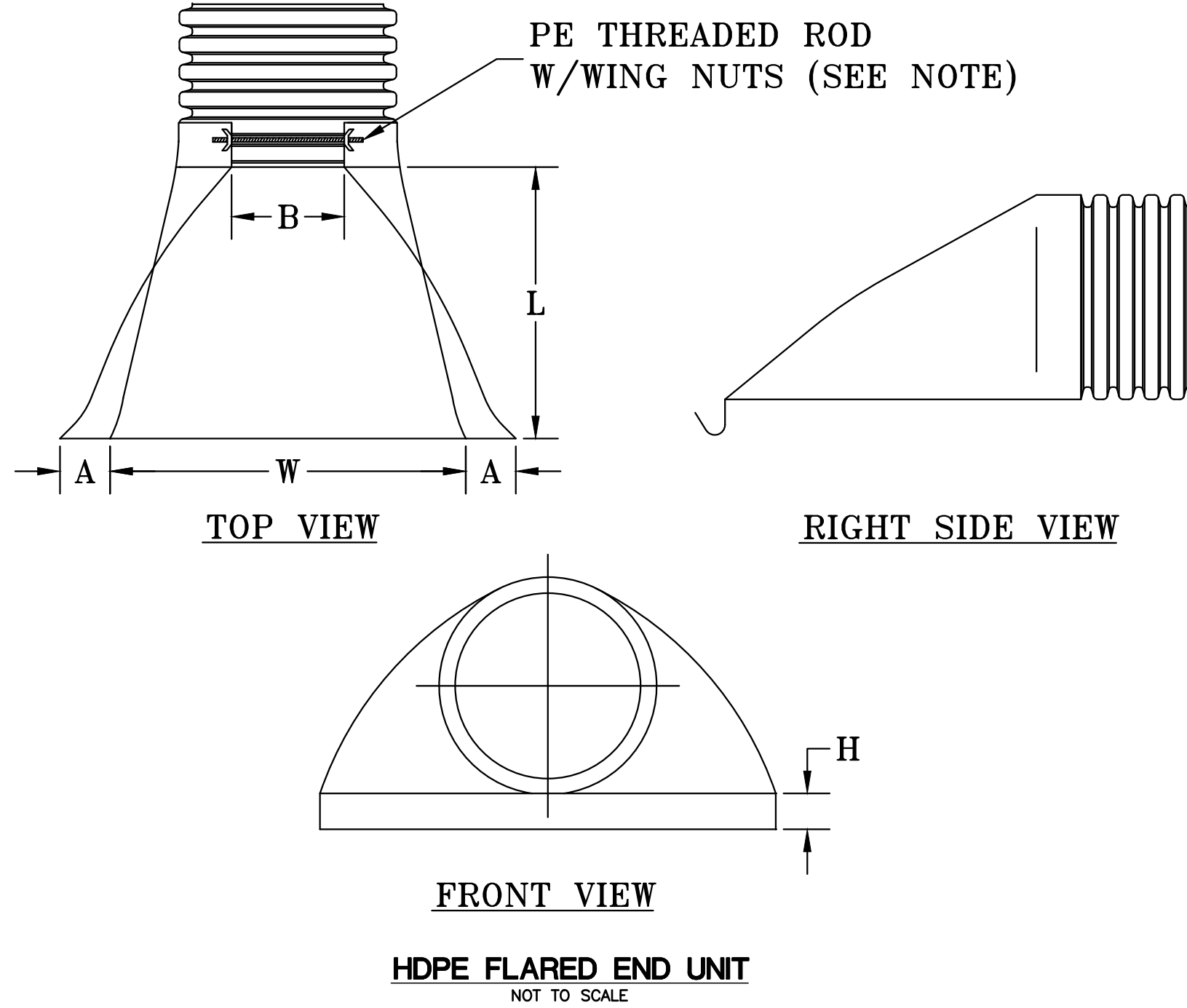


WOOD GUARDRAIL  
NOT TO SCALE

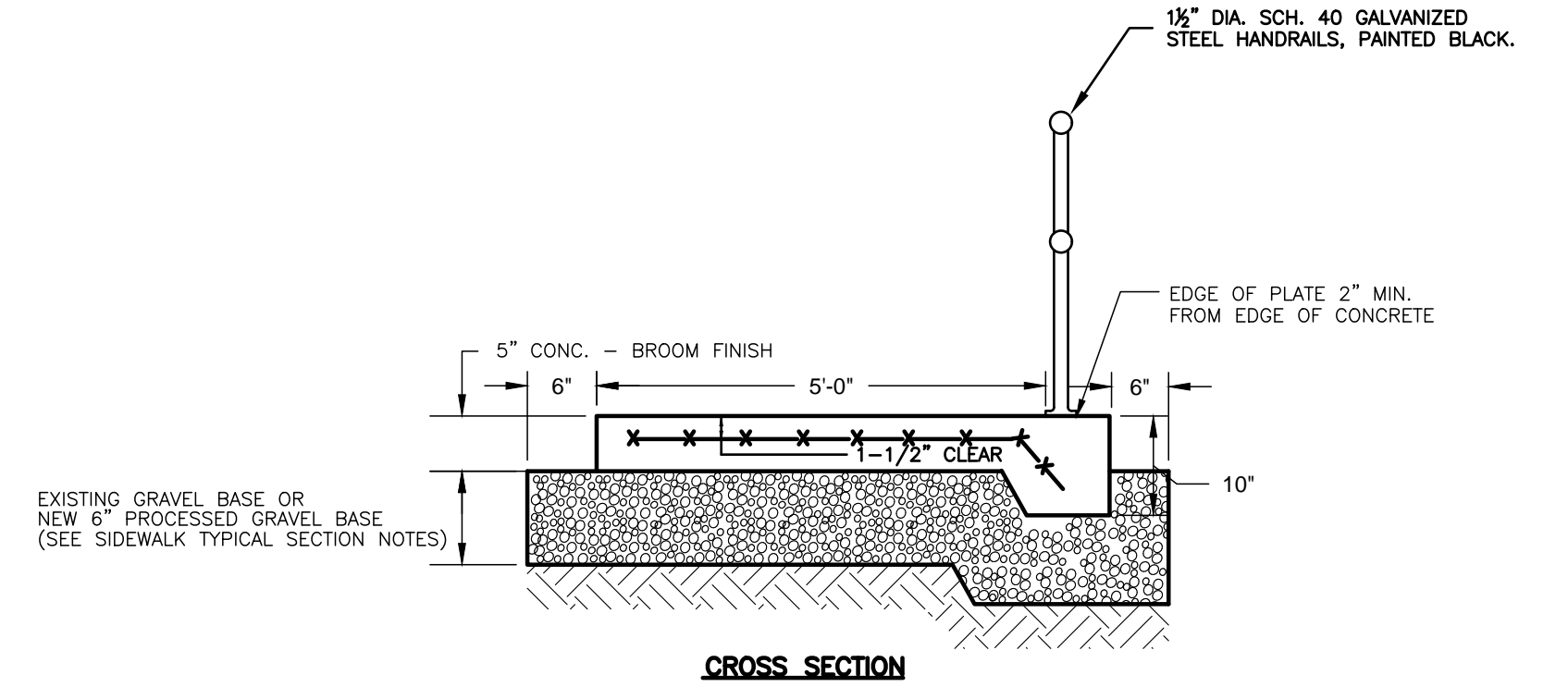


- NOTES:
1. D=INSIDE DIAMETER OF PIPE/CULVERT.
  2. TRENCH WIDTHS NOTED ARE SET TO ESTABLISH PAY LIMITS ONLY.
  3. ALL EXCAVATIONS MUST MEET OSHA STANDARDS.
  4. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL.

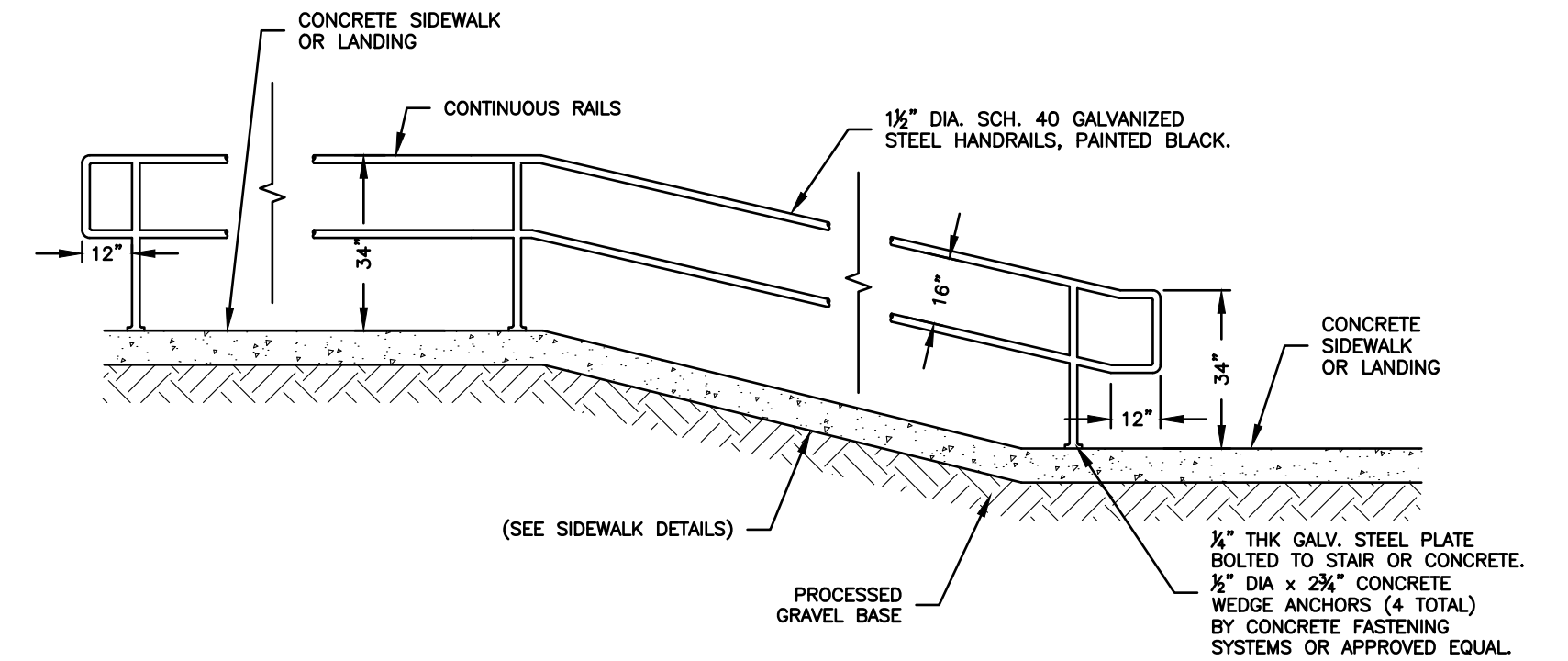
TRENCH DETAIL: DRAINAGE CULVERT  
NOT TO SCALE



HDPE FLARED END UNIT  
NOT TO SCALE



CROSS SECTION  
NOT TO SCALE



- NOTES:
1. STAIR & HANDRAIL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE STATE OF CONNECTICUT BUILDING CODE.
  2. SEE SITE PLAN FOR TOP & BOTTOM OF STAIR ELEVATIONS.
  3. SEE SITE PLAN FOR STAIR WIDTH.
  4. CONTRACTOR TO ADJUST EXACT TREAD DEPTH AND RISER HEIGHT TO MEET THE PROPOSED ELEVATIONS. ADJUSTMENTS MAY BE MADE ON THE FIELD TO MATCH EXISTING CONDITIONS.
  5. THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/4".
  6. THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/4".
  7. HANDRAILS SHALL BE CONTINUOUS THROUGH INTERMEDIATE LANDINGS.
  8. HANDRAIL TURNS SHALL BE RADIUSSED AT 2" MIN. ALL CONNECTIONS TO BE WELDED AND GROUND SMOOTH.
  9. HANDRAILS SHALL BE 1 1/2" DIAMETER SCH. 40 GALVANIZED STEEL.
  10. HANDRAILS SHALL BE PRIMED AND PAINTED - BLACK. PAINT SHALL BE APPLIED PER THE MANUFACTURERS RECOMMENDATIONS.
- PRIMER: 1 COAT SHERWIN WILLIAMS KEM BOND HS UNIVERSAL METAL PRIMER, B50Z  
SERIES 3.0-5.0 MILS DFTOR APPROVED EQUAL  
FINISH: 2 COATS SHERWIN WILLIAMS HI-SOLIDS POLYURETHANE B65-300 3.0-4.0 DFT/CT OR APPROVED EQUAL

CONCRETE SIDEWALK WITH HANDRAIL DETAIL  
NOT TO SCALE

		<b>CLA Engineers, Inc.</b> CIVIL • STRUCTURAL • SURVEYING	
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		Project No. CLA-7528	
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		Date: 8/19/2023	
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