FILE: H:\DWG\Streets\Neipsic Rd\PW-1505-J.B. Williams Parking Lot\J.B. Williams Parking Lot V1.dwg USER: Steven Troy DATE: 10/13/2021

PROJECT NARRATIVE:
THIS PROJECT INVOLVES THE EXPANSION AND REGRADING OF AN EXISTING GRAVEL PARKING LOT TO PROVIDE 52 PARKING SPACES. DRAINAGE IMPROVEMENTS TO CONFORM WITH CURRENT TOWN WATER QUALITY STANDARDS ARE INCORPORATED INTO THIS PROJECT, AS WELL AS VARIOUS LIGHTING AND LANDSCAPING IMPROVEMENTS. THE APPROXIMATE AREA OF DISTURBANCE IS 0.92 ACRES.

PROJECT SEQUENCE:
1. INSTALL PERIMETER SEDIMENT CONTROLS INCLUDING SEDIMENTATION CONTROL FENCE AND STONE CHECK DAMS.
2. INSTALL PROPOSED DRAINAGE IMPROVEMENTS INCLUDING DRY WELLS, CULVERTS, FLARED ENDS, AND RIPRAP SCOUR HOLE.
3. INSTALL ELECTRICAL CONDUITS AND FOUNDATIONS FOR PROPOSED PROPOSED PARKING LOT LIGHTS.
4. INSTALL STONE INFILTRATION TRENCH AND ROUGH GRADE PERIMETER SWALES WHERE SHOWN ON PLANS. INSTALL PERMANENT STONE CHECK DAMS.
5. REMOVE TOPSOIL FROM AREAS OF PARKING LOT TO BE EXPANDED AND INSTALL GRAVEL BASE.
6. ROUGHEN EXISTING GRAVEL SURFACE AND INSTALL ADDITIONAL GRAVEL AS REQUIRED TO MATCH PROPOSED GRADING PLAN SHOWN.
7. FINE GRADE PARKING LOT AND INSTALL PROCESSED STONE BASE SURFACE.
7. PAVE DRIVEWAY APRON ENTRANCE.
8. INSTALL TIMBER POSTS, TIMBER GUIDERAIL, CHAIN GATES, AND PROPOSED SIGNAGE.
9. LANDSCAPING IMPROVEMENTS WILL BE COMPLETED IN THE FUTURE AS PART OF THE TOWN'S LEGACY PROGRAM.

PROJECT SPECIFIC SEDIMENTATION AND EROSION CONTROL PLAN
CONSTRUCTION ACTIVITIES OF CONCERN RELATIVE TO THE PROTECTION OF ADJACENT WETLANDS AND WATERCOURSES FROM SEDIMENTATION ARE AS FOLLOWS:

1. DEWATERING: OPEN TRENCH EXCAVATIONS WILL NEED TO BE DEWATERED AS NECESSARY FOR PROPER INSTALLATION OF THE PROPOSED PIPES. IN THESE AREAS, ALL WATER REMOVED FROM THE TRENCH SHALL BE ADEQUATELY TREATED PRIOR TO DISCHARGE USING MEASURES DESCRIBED IN SECTION 5-13 OF THE 2002 CT GUIDELINES FOR EROSION AND SEDIMENT CONTROL. THIS MAY INCLUDE A STONE SUMP AND STANDPIPE FOR PUMP INTAKE PROTECTION, AND A DIRT BAG OR PUMPING SETTLING BASIN FOR TREATMENT OF THE PUMPED WATER PRIOR TO DISCHARGE.

2. STOCKPILING: EXCAVATED MATERIAL SHALL NOT BE STOCKPILED ADJACENT TO STORM DRAIN INLETS, WETLANDS, OR WATERCOURSES. WHEN IT IS NECESSARY BASED ON THE PROPOSED METHODS OF CONSTRUCTION TO STAGE EXCAVATED MATERIAL FOR SHORT DURATIONS IN THE VICINITY OF STORM DRAIN INLETS, THESE INLETS SHALL BE PROPERLY PROTECTED AS DESCRIBED ON THE PLANS. LONGER DURATION STOCKPILING OF MATERIAL, WHEN NECESSARY, SHALL BE ONLY IN LOCATIONS APPROVED IN ADVANCE BY THE ENGINEER, AND SUCH STOCKPILES SHALL BE RINGED WITH A SEDIMENTATION CONTROL SYSTEM.

3. DISTURBED AREAS: LIMITS OF DISTURBANCE SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLAN. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH THE FINAL SURFACE TREATMENT AS SOON AS POSSIBLE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED. DISTURBED AREAS WITH STEEP OR LONG SLOPES AND OTHER AREAS WITH SIGNIFICANT POTENTIAL FOR CAUSING SEDIMENTATION SHALL BE PROTECTED WITH TEMPORARY STRAW MULCH, WOOD CHIPS, EROSION CONTROL MATTING, OR OTHER SUITABLE MATERIALS PRIOR TO SIGNIFICANT FORECASTED RAIN STORM EVENTS TO REDUCE EROSION POTENTIAL.

4. DRAINAGE WAYS: CONSTRUCTION OF DITCHES, CHANNELS, THAT ACTIVELY CONVEY FLOW SHALL BE PERFORMED SUCH THAT THE PORTION OF DRAINAGE WAY DISTURBED DURING A GIVEN DAY IS COMPLETED WITH THE PERMANENT LINING BY DAYS END, OR OTHERWISE AS NECESSARY TO PROVIDE FOR TEMPORARY BYPASS OF STORMWATER AND ENSURE THAT DOWNSTREAM WETLAND AREAS ARE PROTECTED FROM SEDIMENTATION AND EROSION OF THE CHANNEL.

5. TRAVEL AREAS: A STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SHOWN ON THE PLANS AS REQUIRED TO PREVENT SOIL FROM BEING TRACKED OUT OF THE CONSTRUCTION SITE AND INTO THE ROAD. THIS CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS OF THE PROJECT HAVE BEEN RESTORED.

6. SEVERE WEATHER CONTINGENCY PLAN: IN ADVANCE OF A SEVERE WEATHER EVENT, ALL EROSION CONTROLS DESCRIBED ABOVE AND ELSEWHERE ON THE PLANS SHALL BE INSPECTED AND ADJUSTED AS NECESSARY.

RESPONSIBLE PARTIES:
THE DEPARTMENT OF PHYSICAL SERVICES SHALL PROVIDE A REPRESENTATIVE WHO IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENTATION CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF ALL CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.

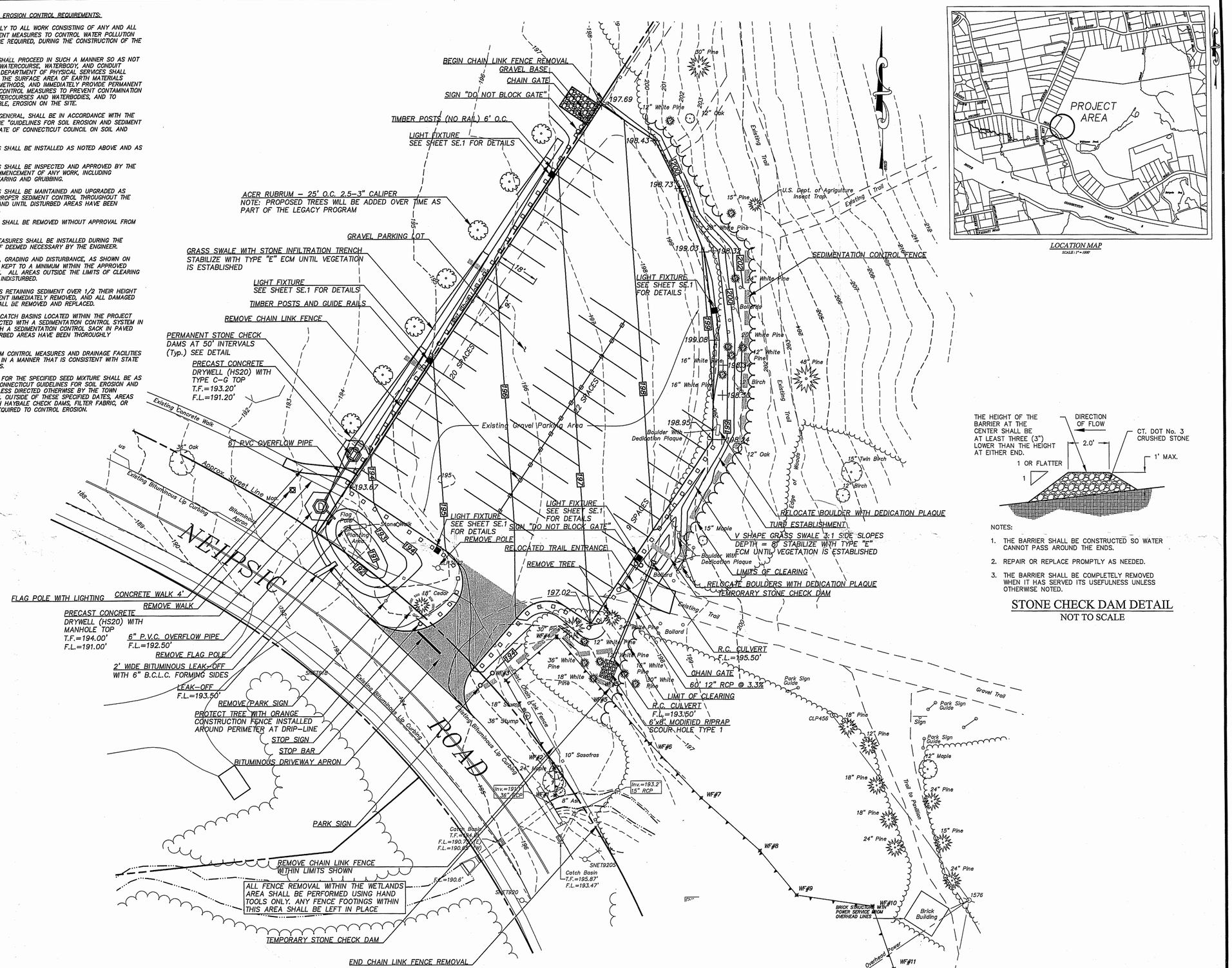
GENERAL SEDIMENTATION AND EROSION CONTROL REQUIREMENTS:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE DEPARTMENT OF PHYSICAL SERVICES SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

CONSTRUCTION METHODS, IN GENERAL, SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

1. ALL CONTROL MEASURES SHALL BE INSTALLED AS NOTED ABOVE AND AS SHOWN ON THE PLANS.
2. ALL CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK, INCLUDING PRE-CONSTRUCTION CLEARING AND GRUBBING.
3. ALL CONTROL MEASURES SHALL BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
4. NO CONTROL MEASURES SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.
5. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY BY THE ENGINEER.
6. THE LIMITS OF CLEARING, GRADING AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CLEARING SHALL REMAIN TOTALLY UNDISTURBED.
7. ANY CONTROL MEASURES RETAINING SEDIMENT OVER 1/2 THEIR HEIGHT SHALL HAVE THE SEDIMENT IMMEDIATELY REMOVED, AND ALL DAMAGED CONTROL MEASURES SHALL BE REMOVED AND REPLACED.
8. ALL NEW AND EXISTING CATCH BASINS LOCATED WITHIN THE PROJECT LIMITS SHALL BE PROTECTED WITH A SEDIMENTATION CONTROL SYSTEM IN GRASSED AREAS OR WITH A SEDIMENTATION CONTROL SACK IN PAVED AREAS UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
9. SEDIMENT REMOVED FROM CONTROL MEASURES AND DRAINAGE FACILITIES SHALL BE DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH STATE AND LOCAL REGULATIONS.
10. THE PLANTING SEASONS FOR THE SPECIFIED SEED MIXTURE SHALL BE AS DEFINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, UNLESS DIRECTED OTHERWISE BY THE TOWN ENVIRONMENTAL PLANNER. OUTSIDE OF THESE SPECIFIED DATES, AREAS WILL BE STABILIZED WITH HAYBALE CHECK DAMS, FILTER FABRIC, OR WOODCHIP MULCH AS REQUIRED TO CONTROL EROSION.

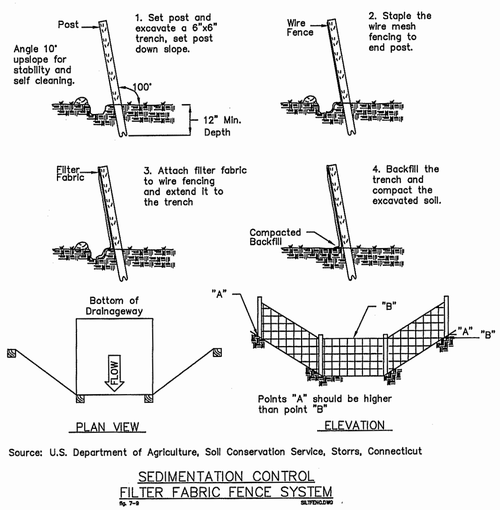


LOCATION MAP
SCALE: 1" = 1000'

THE HEIGHT OF THE BARRIER AT THE CENTER SHALL BE AT LEAST THREE (3") LOWER THAN THE HEIGHT AT EITHER END.

NOTES:
1. THE BARRIER SHALL BE CONSTRUCTED SO WATER CANNOT PASS AROUND THE ENDS.
2. REPAIR OR REPLACE PROMPTLY AS NEEDED.
3. THE BARRIER SHALL BE COMPLETELY REMOVED WHEN IT HAS SERVED ITS USEFULNESS UNLESS OTHERWISE NOTED.

STONE CHECK DAM DETAIL
NOT TO SCALE



Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, Connecticut

SEDIMENTATION CONTROL
FILTER FABRIC FENCE SYSTEM
Sp. 7-9 SILTFENCE.DWG

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101

DRAWING ISSUE STATUS		
1.	ISSUED FOR PERMITTING	10-14-2021
NO.	DESCRIPTION	DATE

P.W. 1505

SCALE: AS SHOWN	DATE:
DRAWN BY: S.Troy	4-27-2021
CHECKED BY: S.M.B.	10-14-2021
APPROVED BY: D.A.P.	10-14-2021
ST. FILE:	

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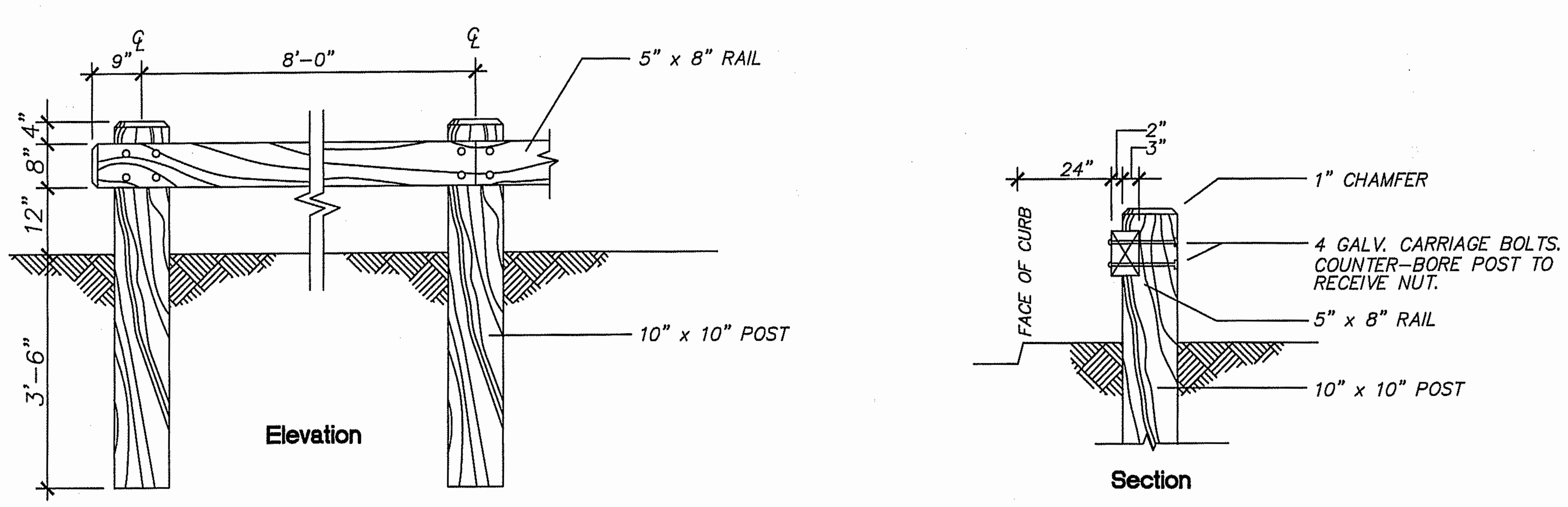
PROPOSED PARKING LOT for J.B. WILLIAMS PARK NEIPSIC ROAD GLASTONBURY, CONNECTICUT

SHEET NO. 1 OF 2

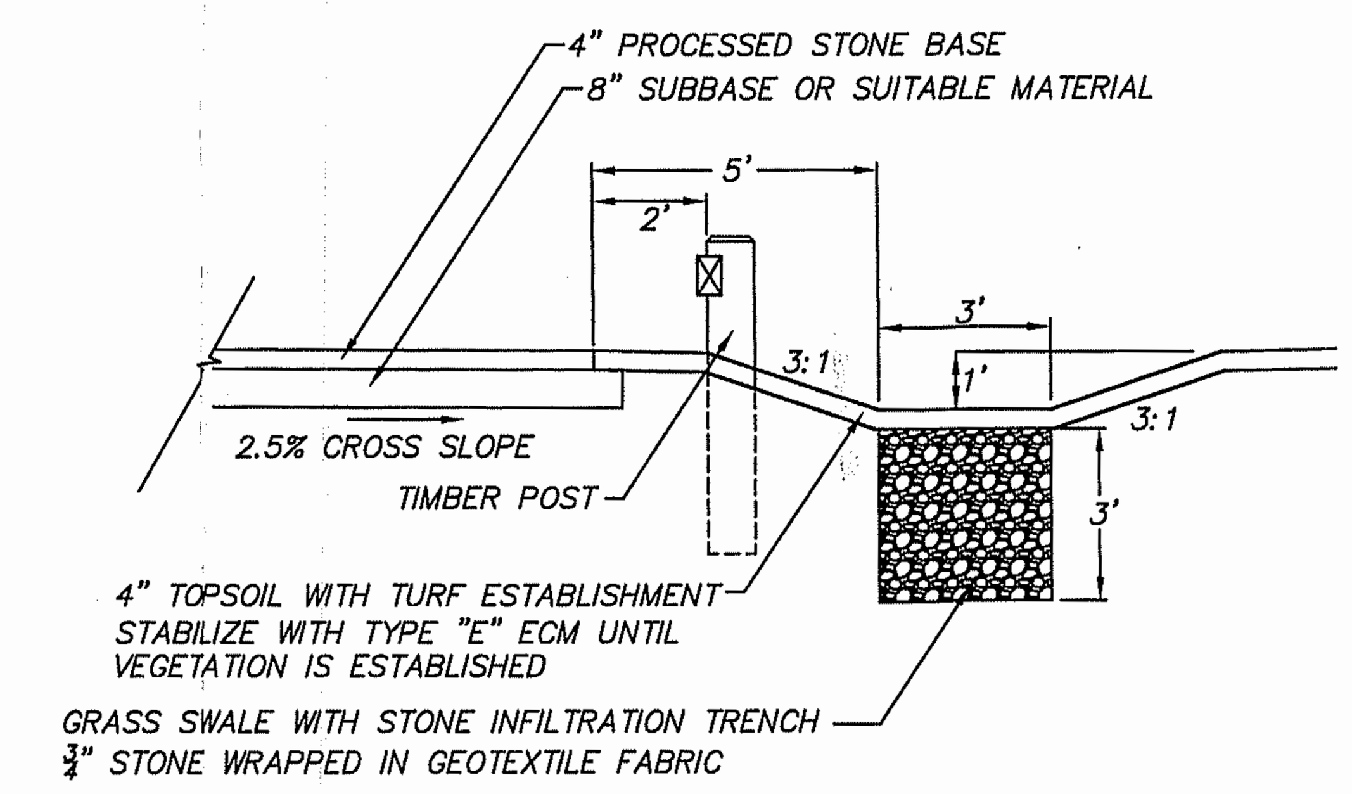
NOTE:

TIMBER POSTS TO BE SPACED AT 6' O.C. WHERE GUIDERAIL IS NOT CALLED FOR ON THE PLANS.



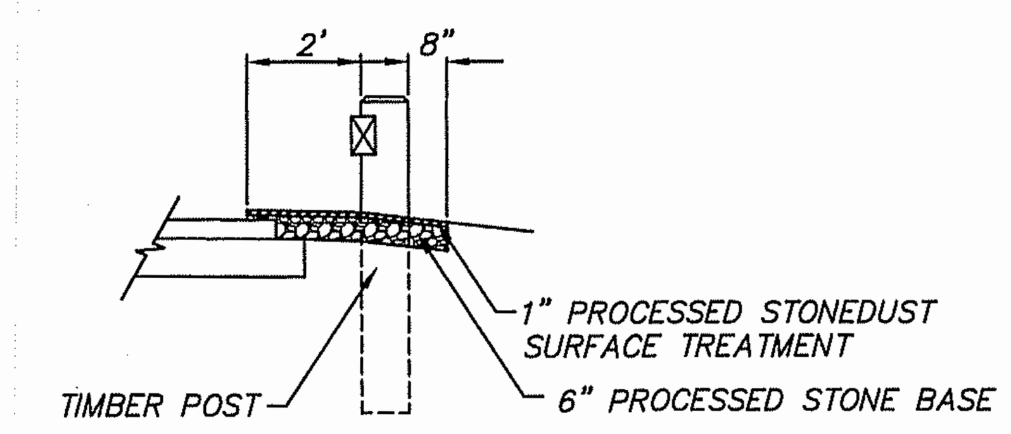
Timber Posts and Guide Rail

NOT TO SCALE



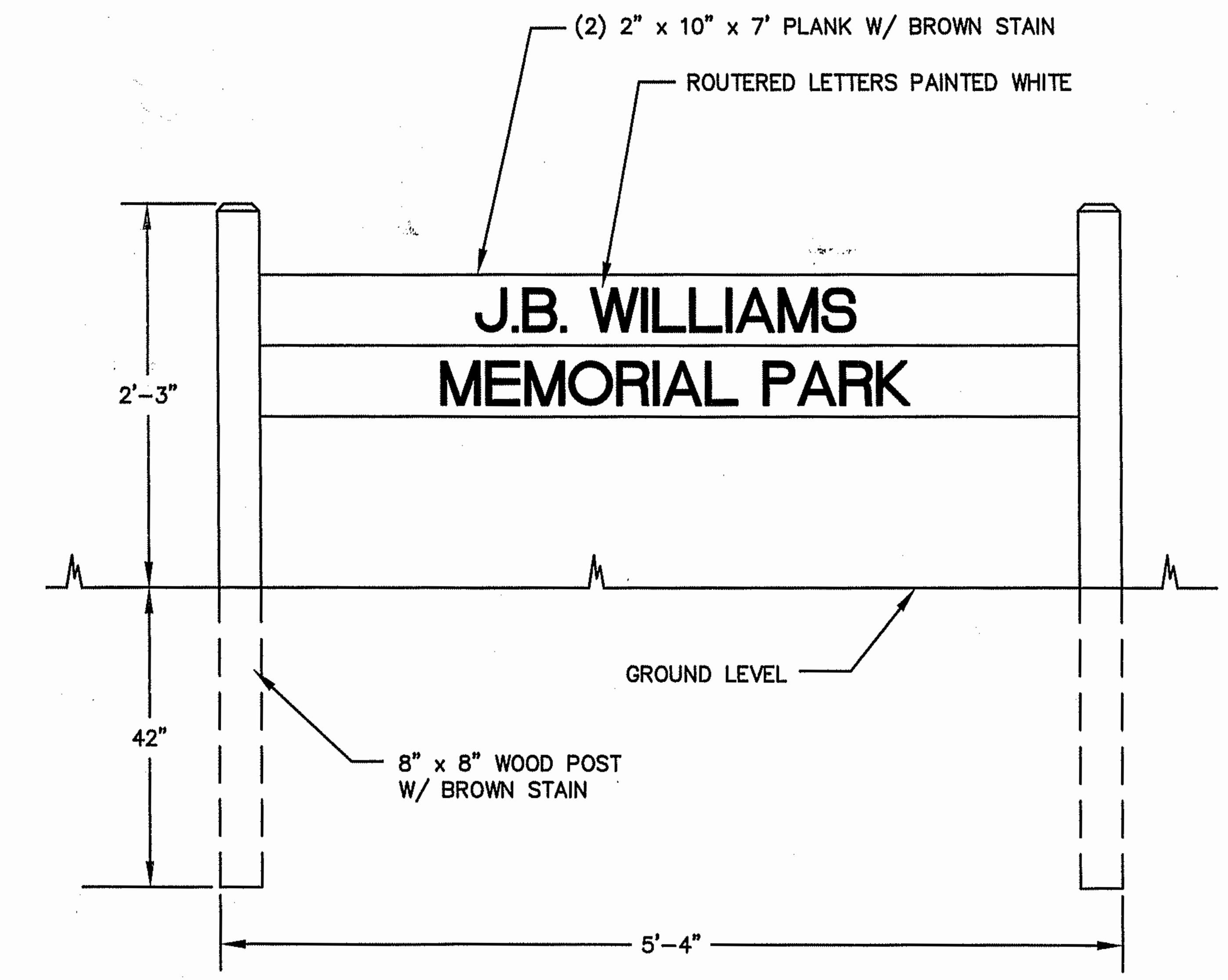
PARKING LOT SECTION

SCALE : N.T.S.



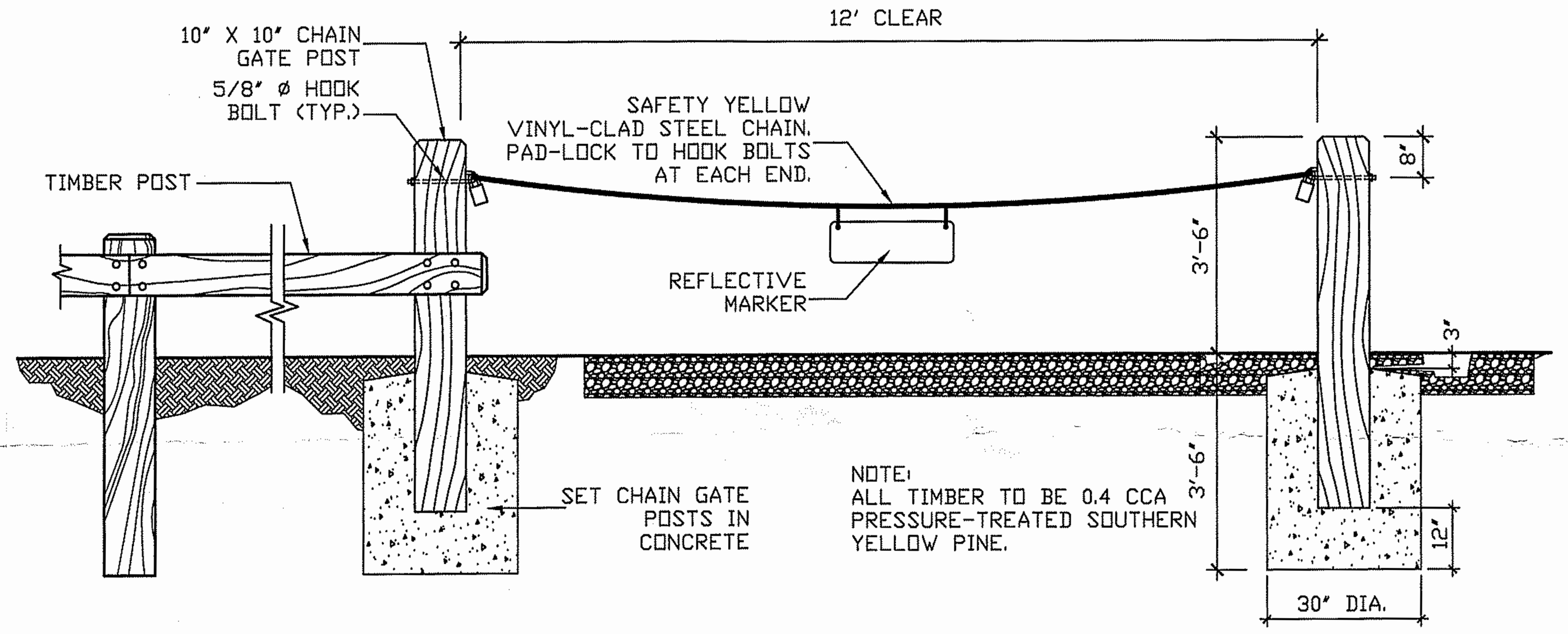
TIMBER POST INSTALLATION DETAIL

SCALE : N.T.S.



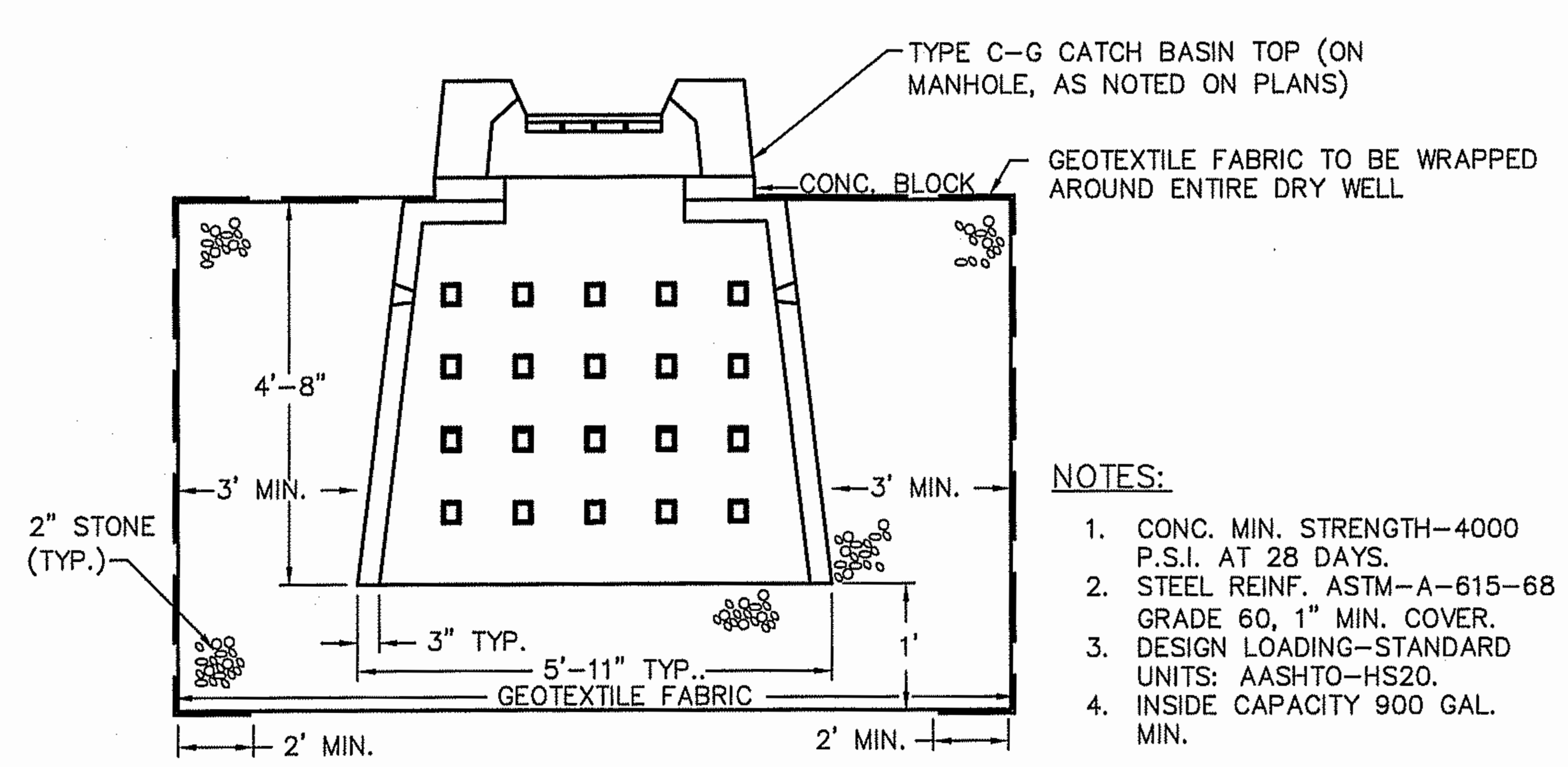
SIGN DETAIL

NOT TO SCALE



Chain Gate

NOT TO SCALE



NOTES:

1. CONC. MIN. STRENGTH–4000 P.S.I. AT 28 DAYS.
2. STEEL REINF. ASTM–A–615–68 GRADE 60, 1" MIN. COVER.
3. DESIGN LOADING–STANDARD UNITS: AASHTO–HS20.
4. INSIDE CAPACITY 900 GAL. MIN.

SECTION

PRECAST CONCRETE DRYWELL

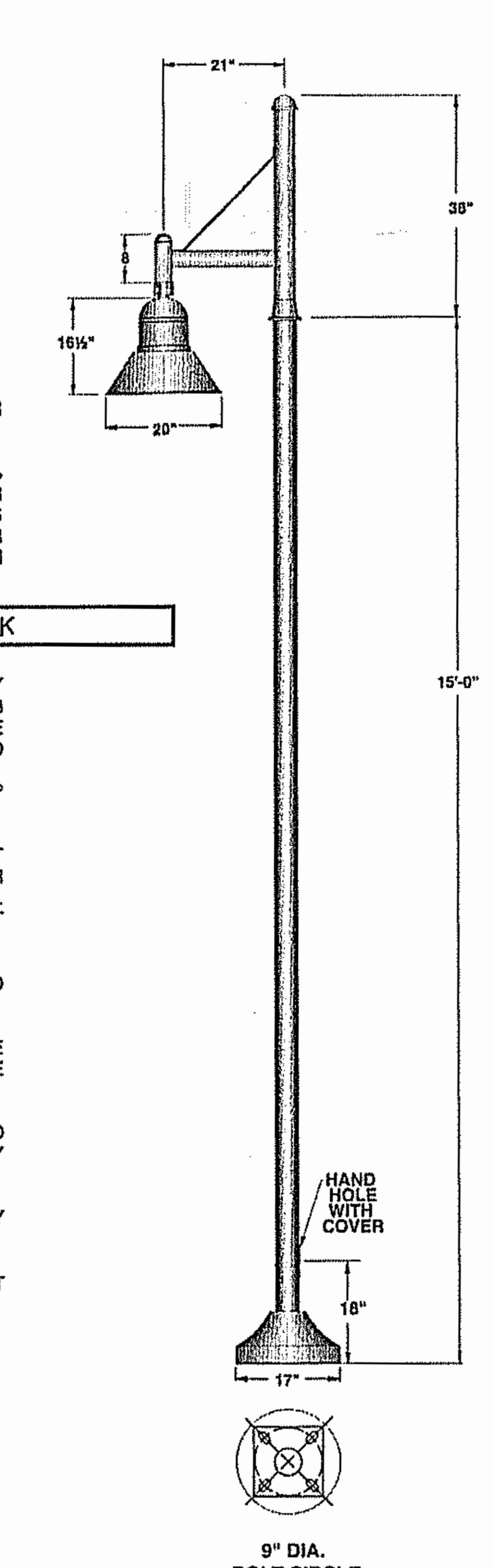
NOT TO SCALE

CUSTOMER APPROVAL:

X ______________ DATE: ______

A signed approval will be required with the released order

PROPRIETARY SUBMITTAL, DO NOT MODIFY.



SPECIFICATIONS:

LUMINAIRE: UPPER HOUSING IS HEAVY GAUGE CAST ALUMINUM COMPRISED OF LOW COPPER A356 ALLOY (< 0.2%Cu) ALUMINUM. LOWER HOUSING IS 0.080 THICK SPUN ALUMINUM WITH VENTED AREA.

VLED OPTICAL MODULE: SEALED LED OPTICAL MODULE. LOW COPPER A356 ALLOY (<.2% COPPER) CAST ALUMINUM HOUSING. INTEGRATED CLEAR TEMPERED 3/16" GLASS LENS SEALED WITH A CONTINUOUS SILICONE GASKET PROTECTS EMITTERS (LED'S) AND EMITTER REFLECTOR-PRISM OPTICS, AND SEALS THE MODULE FROM WATER INTRUSION AND ENVIRONMENTAL CONTAMINANTS. ENTIRE MODULE MEETS IP67 RATING

VLED EMITTERS AND OPTICS: 48 EMITTERS (LED'S) DRIVEN AT 700mA FOR 111 TOTAL INPUT WATTS. HIGH OUTPUT, WARM WHITE NOMINAL 4000K CCT FOR THE ENTIRE MODULE. EACH EMITTER IS OPTICALLY CONTROLLED BY A REFLECTOR-PRISM INJECTION MOLDED FROM H12 ACRYLIC (3 TYPES PER MODULE; ONE FROM 0°-50°; ONE FROM 50°-65°; ONE FROM 65°-70°). THE REFLECTOR-PRISMS ARE ARRAYED TO PRODUCE IES TYPE IV LIGHT DISTRIBUTION. THE ENTIRE OPTICAL MODULE IS FIELD ROTATABLE IN THE LUMINAIRE IN 90° INCREMENTS.

3000K

VLED DRIVER: CONSTANT CURRENT LED DRIVER OPERATES ON INPUT VOLTAGES FROM 120 - 277 V., 50/60Hz. FACTORY WIRED DRIVER IS INDEPENDENTLY SEALED AND UL LISTED FOR WET LOCATION. 20KA SURGE PROTECTOR WITH END OF LIFE OPEN CIRCUIT PROTECTION FOR LUMINAIRE.

ARM: DURABLE CORROSION RESISTANT CAST, AND EXTRUDED ALUMINUM CONSTRUCTION.

SHAFT: 4" DIAMETER FABRICATED FROM HIGH GRADE, 11 GAUGE STRUCTURAL STEEL, SHAFT SUPPLIED WITH HAND HOLE COVER.

ANCHOR BASE: FABRICATED FROM STRUCTURAL QUALITY HOT ROLLED STEEL, BASE TELESCOPES AND IS CIRCUMFERENTIALLY WELDED TO SHAFT.

BASE COVER: TWO PIECE, HEAVY WALL CONSTRUCTION ENTIRELY CONCEALS ANCHOR BASE.

ANCHORAGE: (4) 3/4"X24" FULLY GALVANIZED ANCHOR BOLTS. EACH BOLT SUPPLIED WITH TWO NUTS AND TWO WASHERS.

FINISH: POLYESTER POWDER COAT (SPECIFY COLOR)

SCALE: 1/2" = 1'-0"

SYM.	REVISION	BY	DATE
1			

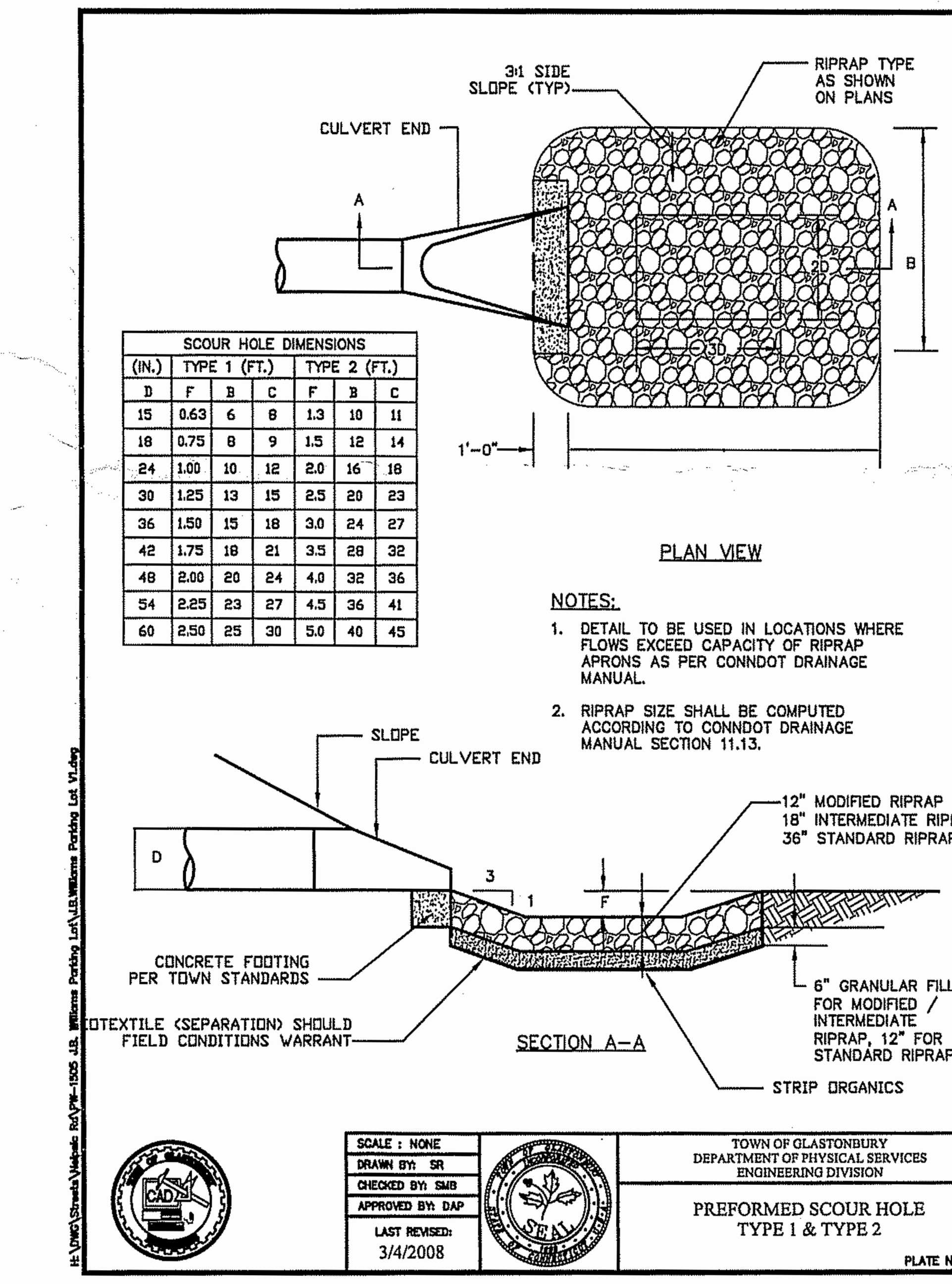
U.S. ARCHITECTURAL LIGHTING

PART NO.			REV.
DR'N	CHK'D	MAT'L	
DATE 09/01/21	SCALE	SHEET	

TOLERANCE UNLESS NOTED: ± .02" HOLES: ± .01"

DESCRIPTION: SBMTL-4114

660 WEST AVENUE O, PALMDALE, CA.93551 Ph. (661) 233-2001 Fax (661) 233-2001



SCOUR HOLE DIMENSIONS						
(IN.)	TYPE 1 (FT.)			TYPE 2 (FT.)		
D	F	B	C	F	B	C
15	0.63	6	8	1.3	10	11
18	0.75	8	9	1.5	12	14
24	1.00	10	12	2.0	16	18
30	1.25	13	15	2.5	20	23
36	1.50	15	18	3.0	24	27
42	1.75	18	21	3.5	28	32
48	2.00	20	24	4.0	32	36
54	2.25	23	27	4.5	36	41
60	2.50	25	30	5.0	40	45

PLAN VIEW

NOTES:

1. DETAIL TO BE USED IN LOCATIONS WHERE FLOWS EXCEED CAPACITY OF RIPRAP APRONS AS PER CONNDOT DRAINAGE MANUAL.
2. RIPRAP SIZE SHALL BE COMPUTED ACCORDING TO CONNDOT DRAINAGE MANUAL SECTION 11.13.

SECTION A–A

SCALE : NONE

DRAWN BY: SR

CHECKED BY: SMR

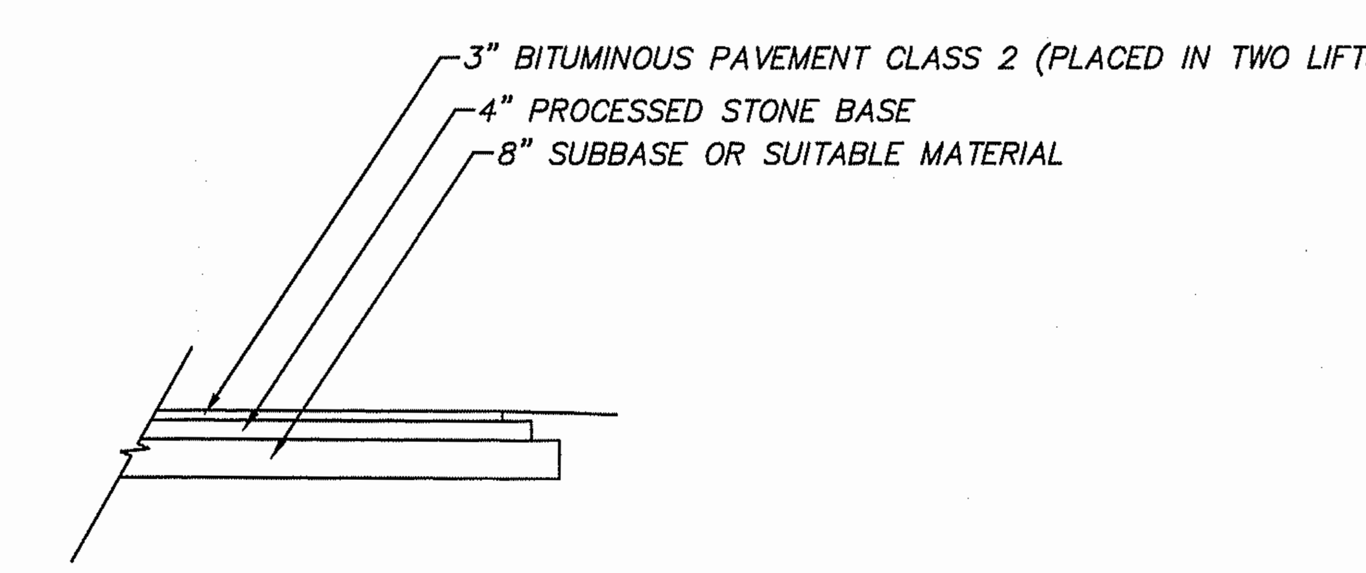
APPROVED BY: DAP

LAST REVISED: 3/4/2008

TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION

PREFORMED SCOUR HOLE TYPE 1 & TYPE 2

PLATE NO. 27



DRIVEWAY APRON SECTION

SCALE : N.T.S.

Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101

P.W. 1505

DRAWING ISSUE STATUS		
1.	ISSUED FOR PERMITTING	10–14–2021
NO.	DESCRIPTION	DATE

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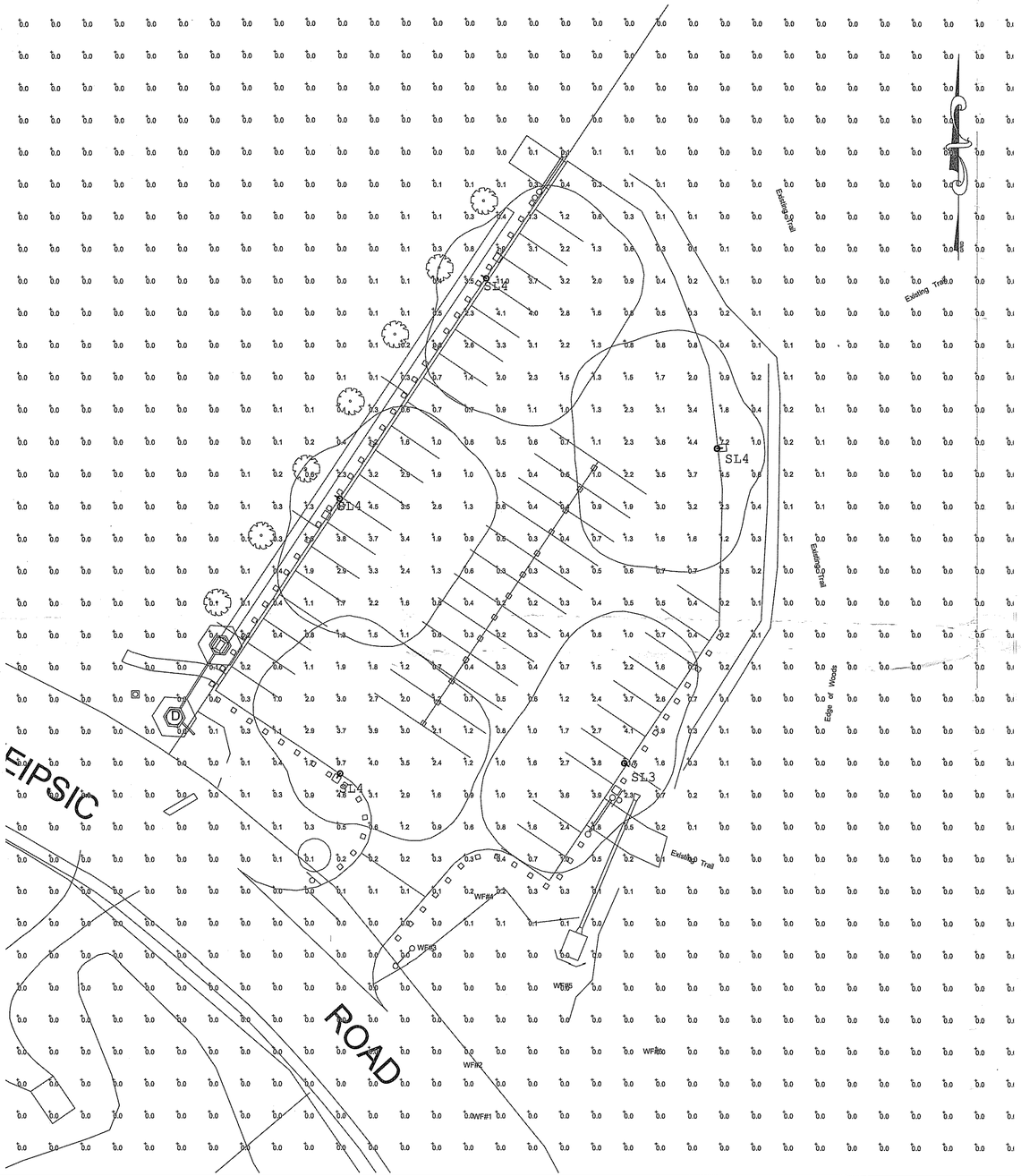
DETAILS DEPICTING PROPOSED PARKING LOT for J.B. WILLIAMS PARK NEIPSIC ROAD GLASTONBURY, CONNECTICUT

SHEET NO. 2 OF 2



JOB NAME: JB WILLIAMS PARK - GLASTONBURY, CT
APEX LIGHTING SOLUTIONS
WORKPLANE/CALC PLANE: AT FINISH GRADE
MOUNTING HEIGHT: SEE LUMINAIRE SCHEDULE
APPS: LED
SALES: SP
SPECIFIER: TOWN OF GLASTONBURY

Luminaire Schedule							
Qty	Label	Arrangement	Lumens	Input Watts	LLF	BUG Rating	Description
1	SL3	SINGLE	10103	103	0.850	B2-U0-G2	USA DSAP20-VLED-III-48LED-700mA-WW-VOLT-XBS-1-FINISH/RNTS 154-11-PT27-FINISH
4	SL4	SINGLE	10242	103	0.850	B2-U0-G2	USA DSAP20-VLED-IV-48LED-700mA-WW-VOLT-XBS-1-FINISH/RNTS 154-11-PT27-FINISH

Calculation Summary						
Label	Grid Height	Avg	Max	Min	Avg/Min	Max/Min
CalcPts_1	0	0.28	11.7	0.0	N.A.	N.A.
PARKING LOT		1.68	11.7	0.1	16.80	117.00

GENERAL DISCLAIMER:

Calculations have been performed according to IES standards and good practice Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values.

* LLF Determined Using Current Published Lamp Data

NOTE TO REVIEWER:

Total Light Loss Factor (LLF) applied at time of design is determined by applying the Lamp Lumen Depreciation (LLD) from current lamp manufacturer's catalog, a Luminaire Dirt Depreciation Factor (LDD) based on IES recommended values and a Ballast Factor (BF) from current ballast specification sheets. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that will not accurately depict actual results.

For proper comparison of photometric layouts, it is essential that you insist all designers use correct Light Loss Factors.

APEX
LIGHTING SOLUTIONS
THE POINT WHERE ALL ASCENDING LINES CONVERGE
TELEPHONE 860.632.8766
WWW.APEXLIGHTINGSOLUTIONS.COM

PROJECT TITLE:

JB WILLIAMS PARK
GLASTONBURY, CT

DRAWING TITLE:

SITE LIGHTING
PHOTOMETRIC CALCULATION

SCALE : 1"=20'-0"

DATE: 10/6/21

DRAWN BY:LED

SHEET:

SL-1A