EASTON RACQUET CLUB EXPANSION

36 WIMBLEDON LANE
EASTON, CONNECTICUT

DRAWING PACKAGE:

SURVEY DRAWINGS

MAP OF PROPERTY (BOUNDARY, TOPOGRAPHIC & WETLANDS)

CIVIL ENGINEERING DRAWINGS

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C-2	SITE DEVELOPMENT & GRADING PLAN
C-3	WETLANDS IMPACT PLAN
C-4	CONSTRUCTION SPECIFICATIONS & STANDARDS AND TEST HOLE DATA AND SEPTIC DETAILS
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OWNED AND DEVELOPED BY:

Easton Racquet Club, Inc.
36 Wimbledon Lane
P.O. Box 152
Easton, CT 06612

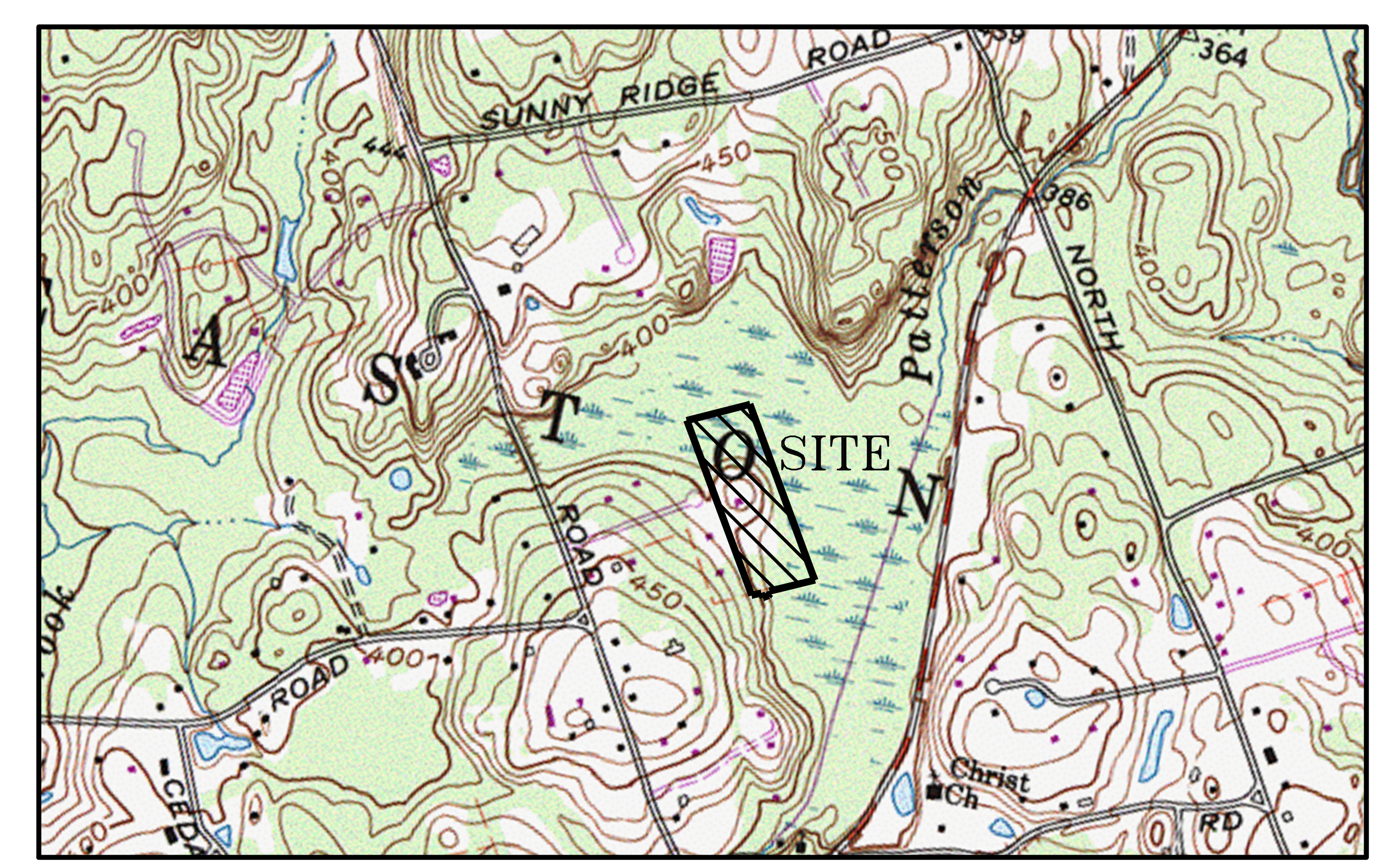
CIVIL ENGINEERS & LAND SURVEYORS:

DYMAR

800 Main Street South · Southbury, Ct. 06488 · (203) 267-1046 · Fax (203) 267-1547
ENGINEERING · PLANNING · SURVEYING · DEVELOPMENT SERVICES

MARK E. LANCOR, P.E. #12369

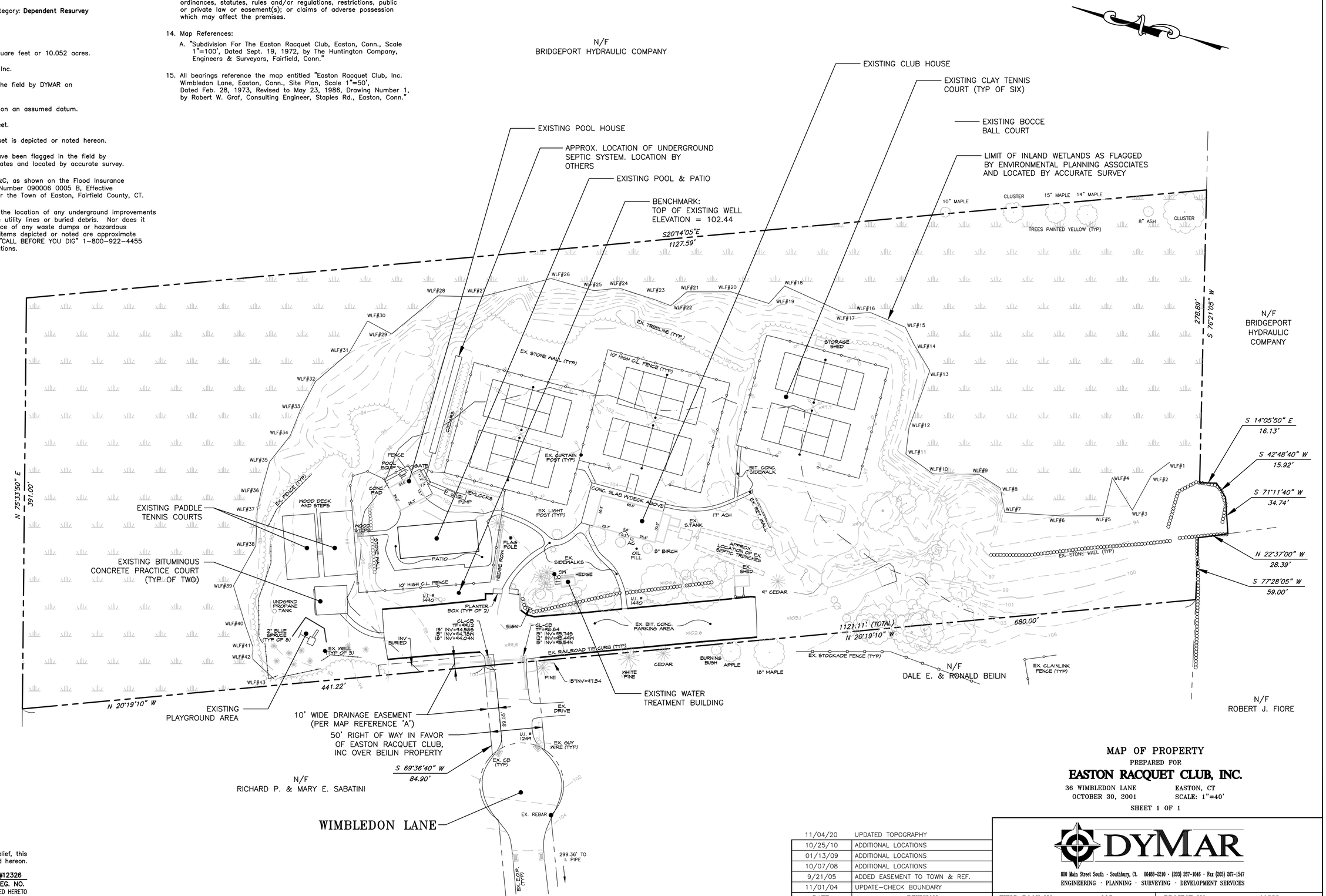
Issued to	Date	Approved
Inland Wetlands	2/15/21	3/23/21
Planning	4/2/21	-
Last Revised	3/26/21	-



LOCATION MAP
SCALE: 1" = 1000'

NOTES:

1. This map has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20–300b–1 through 20–300b–20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996.
   - *Type of Survey: **Property**
   - *Boundary Determination Category: **Dependent Resurvey**
   - *Class of Accuracy: **A–2**
2. Zone: (District B).
3. Area of Parcel = 437,865 square feet or 10.052 acres.
4. Owner: Easton Racquet Club, Inc.
5. Topography was obtained in the field by DYMAR on October 30, 2001.
6. Vertical elevations are based on an assumed datum.
7. Contour interval is two (2) feet.
8. All monumentation found or set is depicted or noted hereon.
9. The inland wetlands shown have been flagged in the field by Environmental Planning Associates and located by accurate survey.
10. Parcel is located in Zones A&C, as shown on the Flood Insurance Rate Map, Community Panel Number 090006 0005 B, Effective Date September 30, 1983, for the Town of Easton, Fairfield County, CT.
11. This survey does not include the location of any underground improvements or encroachments, subsurface utility lines or buried debris. Nor does it necessarily reflect the existence of any waste dumps or hazardous materials. The underground items depicted or noted are approximate and not guaranteed. Notify "CALL BEFORE YOU DIG" 1–800–922–4455 prior to any excavation operations.
12. Rights to occupancy or possession by any indian nation or tribe of indians or the claim of any governmental body have not been investigated by this office.
13. This property is subject to any and all local, state and federal ordinances, statutes, rules and/or regulations, restrictions, public or private law or easement(s); or claims of adverse possession which may affect the premises.
14. Map References:
    A. "Subdivision For The Easton Racquet Club, Easton, Conn., Scale 1"=100', Dated Sept. 19, 1972, by The Huntington Company, Engineers & Surveyors, Fairfield, Conn."
15. All bearings reference the map entitled "Easton Racquet Club, Inc. Wimbledon Lane, Easton, Conn., Site Plan, Scale 1"=50', Dated Feb. 28, 1973, Revised to May 23, 1986, Drawing Number 1, by Robert W. Graf, Consulting Engineer, Staples Rd., Easton, Conn."



To the best of my knowledge and belief, this map is substantially correct as noted hereon.

#12326
STEVEN M. GABRIELE, L.S. REG. NO.
NOT VALID UNLESS EMBOSSED SEAL IS AFFIXED HERETO

MAP OF PROPERTY

PREPARED FOR

EASTON RACQUET CLUB, INC.

36 WIMBLEDON LANE EASTON, CT
OCTOBER 30, 2001 SCALE: 1"=40'

SHEET 1 OF 1

DATE	REVISION
11/04/20	UPDATED TOPOGRAPHY
10/25/10	ADDITIONAL LOCATIONS
01/13/09	ADDITIONAL LOCATIONS
10/07/08	ADDITIONAL LOCATIONS
9/21/05	ADDED EASEMENT TO TOWN & REF.
11/01/04	UPDATE–CHECK BOUNDARY

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FIELD BOOK NO.	003	PROJECT NO.	00335

GENERAL LEGEND

PLAN SYMBOLS

DESCRIPTION | EXISTING | PROPOSED

- PROPERTY LINE & IRON PIN
- PROPERTY LINE & MONUMENT
- SETBACK LINE
- BENCHMARK
- GRID LINE & COORDINATE
- BASELINE POINT
- CENTERLINE
- CONTOUR & ELEVATION
- SPOT ELEVATION
- GRANITE CURBING
- CONCRETE CURBING
- BITUMINOUS LIP CURBING
- EDGE OF ROAD (NO CURB)
- SIDEWALK
- WIRE FENCE
- RETAINING WALL
- STONE WALL
- WOOD PICKET FENCE
- CABLE GUIDE RAIL
- METAL BEAM RAIL
- BOX BEAM RAIL
- GUIDE POSTS
- EDGE OF WOODED AREA
- DECIDUOUS TREES
- EVERGREEN TREES
- EDGE OF WATER
- MARSH AREA
- WETLAND LINE
- ROCK OR ROCK OUTCROP
- BUILDINGS
- FORMER BUILDING
- RAILROAD TRACK
- LIGHT POLE
- UTILITY POLE
- HIGH TENSION TOWER
- TRAFFIC SIGNAL
- STREET MOUNTED SIGN
- POLICE OR FIRE CALL BOX
- SOIL BORING
- TEST HOLE & PERC TEST
- WELL
- HYDRANT
- WATER MAIN, VALVE & MANHOLE
- THRUST BLOCK
- GAS MAIN & GATE VALVE
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND CABLE TV
- SANITARY SEWER & M.H.
- UTILITY TO BE REMOVED
- STORM SEWER, CATCH BASIN AND M.H.
- FLARED END SECTION
- HEADWALL
- GUTTER (TYPE-BIT, CONC., RIPRAP)
- OPEN DITCH
- UNDER DRAIN

PLAN SYMBOLS (CONTINUED)

DESCRIPTION | EXISTING | PROPOSED

- HAY BALES
- SILT FENCE
- ROCK LINED SWALE
- UNLINED GRASS SWALE
- ECRM REVEGETATION SWALE
- ROADWAY WATER BREAK
- RIPRAP OUTLET SPLASH PAD
- ANTI-TRACKING PAD
- SEEPAGE ENVELOPE
- PLUNGE POOL
- SEED & MULCH STABILIZATION
- DRAIN INLET SILTSACK TRAP
- CHECK DAM
- CONSTRUCTION LIMIT LINE

GENERAL NOTES

CONSTRUCTION

1. NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. REFER TO PROJECT SPECIFICATION AND STANDARD NOTES IN ADDITION TO GENERAL NOTES. WHERE LAWS AND REGULATIONS OF PUBLIC AUTHORITY PRESCRIBE A HIGHER DEGREE OF PROTECTION THAN SPECIFIED HEREIN, THEN THE HIGHER DEGREE SO PRESCRIBED SHALL GOVERN.
2. UNLESS OTHERWISE INDICATED, DETAILS SHOWN ON ANY DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
3. THE WORD "CERTIFY" IS TO BE AN EXPRESSION OF PROFESSIONAL OPINION BY THE ENGINEER, BY WHICH IS BASED ON HIS\HER BEST KNOWLEDGE, INFORMATION AND BELIEF; AS SUCH IT CONSTITUTES NEITHER A GUARANTEE OR WARRANTY.
4. CHANGES MADE TO THESE PLANS AND RELATED CONTRACT DOCUMENTS SINCE COMPLETED BY DYMAR MAY BE DETERMINED BY COMPARISON WITH RECORD PLANS AND RELATED DOCUMENTS FILED AT THE OFFICE OF DYMAR.
5. THE INFORMATION SHOWN ON THE FOLLOWING SHEETS IS LIMITED TO THE INFORMATION MADE AVAILABLE AT THE TIME OF THE DESIGN SERVICES WERE RENDERED.
6. LOCATIONS OF EXISTING UTILITIES HAVE BEEN TAKEN FROM UTILITY MAPS OR BY OTHER MEANS. ACTUAL FIELD LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ALL UTILITY COMPANIES AFFECTED BY THE WORK ON OR NEAR THE PROJECT AREA SHALL BE CONTACTED PRIOR TO COMMENCEMENT OF THE WORK.
7. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD, AND DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. THE ENGINEER SHALL HAVE FINAL SAY AS TO THE ACTUAL DIMENSIONS BY WHICH TO CONSTRUCT. NO ALLOWANCES SHALL BE MADE FOR DIFFERENCES BETWEEN ACTUAL MEASUREMENTS AND THOSE SHOWN ON THE DRAWINGS.
8. THE CONTRACTOR SHALL PROCURE ALL NECESSARY PERMITS AND LICENSES REQUIRED BY FEDERAL, STATE OR LOCAL AUTHORITIES TO PERFORM THE WORK, PAY ALL FEES IN CONNECTION THEREWITH, AND ABIDE BY ALL REGULATIONS, ORDINANCES, CODES AND OTHER RULES OF SUCH AUTHORITIES HAVING JURISDICTION.
9. THE CONTRACTOR SHALL STRICTLY COMPLY WITH THE NATIONAL FIRE CODES, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION 29 USC SECTION 1926 AND THE OCCUPATIONAL HEALTH AND SAFETY ACT IN ORDER TO SAFELY AND ADEQUATELY PROTECT ALL EMPLOYEES AND PROPERTY DURING CONSTRUCTION.
10. THE CONSTRUCTION SITE MUST BE KEPT CLEAN AND ORDERLY, AND COMBUSTIBLES KEPT TO AN ABSOLUTE MINIMUM AT ALL TIMES. ALL RUBBISH AND COMBUSTIBLE DEBRIS MUST BE CONTINUOUSLY REMOVED FROM THE PROPERTY. FACILITIES FOR ADEQUATE FIRE PROTECTION MUST BE PROVIDED TO KEEP PACE WITH THE PROGRESS OF WORK REQUIRING THE USE OF COMBUSTIBLE MATERIALS. ALL CONTAINERS OF FLAMMABLE LIQUIDS MUST BE PROVIDED WITH APPROPRIATE WARNING LABELS AND DESCRIPTION OF THEIR CONTENTS.
11. AISLES, PASSAGEWAYS, ALLEYWAYS, DRIVEWAYS, ENTRANCES OR EXITS AND ACCESS TO FIRE EQUIPMENT MUST BE KEPT UNOBSTRUCTED AT ALL TIMES.
12. THE LOCAL FIRE AND POLICE DEPARTMENT SHALL BE PROMPTLY NOTIFIED OF ANY FIRE, EXPLOSION, LEAKAGE OR SPILLAGE OF FLAMMABLE LIQUIDS, REGARDLESS OF HOW SMALL IT MAY HAVE BEEN.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE LAYOUT OF ALL CONSTRUCTION LIMIT LINES, EASEMENTS AND PROPERTY LINES WHERE REQUIRED, AND CONTINUING THE CONSTRUCTION ACTIVITIES WITHIN THESE LIMITS. HE IS ALSO REQUIRED TO HAVE A REGISTERED ENGINEER OR LAND SURVEYOR LAYOUT ALL ROADS, STORM DRAINAGE, AND SIDEWALKS. AS BUILTS SHALL BE PREPARED AND FURNISHED TO THE CONTROLING AUTHORITY FOR ALL ROADS, DRIVEWAYS, PARKING AREAS, STORMWATER SYSTEMS, AND SIDEWALKS.
14. SLOPES AND INVERTS OF ALL STORM DRAINAGE PIPES ARE CRITICAL AND MUST BE CONSTRUCTED AS SHOWN.
15. HORIZONTAL LOCATIONS OF PROPOSED STORM SEWERS MAY BE VARIED SLIGHTLY IN THE FIELD TO FIT EXISTING CONDITIONS WHERE APPROVED BY THE ENGINEER.
16. MAINTAIN TEN FOOT (10") MINIMUM HORIZONTAL SEPARATION AND EIGHTEEN INCH (18") MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWERS OR STORM DRAINS. WHERE VERTICAL SEPARATION CAN NOT BE MAINTAINED A CONCRETE ENCASEMENT OR CRADLE SHALL BE CONSTRUCTED. REFER TO DETAILS FOR TYPE.
17. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
18. ALL EXISTING UTILITIES TO BE RELOCATED, RESET AND/OR RECONNECTED, IF IN CONFLICT WITH THE PROPOSED WORK ACTIVITIES, SHALL BE MADE AT NO DIRECT PAYMENT TO THE CONTRACTOR BUT SHALL BE INCLUDED IN VARIOUS ITEMS OF WORK UNDER THE CONTRACT.
19. WHERE EXISTING UTILITY POLES NEED TO BE RELOCATED OR REMOVED BY OTHERS, SUCH WORK SHALL BE AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE SPECIFIED BY THE OWNER OR INDICATED ELSEWHERE. THE RELOCATION OF SAME OR REMOVAL THEREOF MAY NOT COINCIDE WITH THE CONTRACTOR'S WORK SCHEDULE AND, THEREFORE, THE CONTRACTOR SHOULD ANTICIPATE IN HIS BID THE COST OF SUCH WORK WITHIN THE PROJECTS LIMITS TO PROJECT COMPLETION.
20. ALL UTILITY LINES DAMAGED BY CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE PERTINENT UTILITY COMPANY IMMEDIATELY. COST OF WORK TO REPAIR THE UTILITY SHALL BE BORNE BY THE CONTRACTOR, UNLESS OTHERWISE ACCEPTED UNDER OTHER TERMS BY THE UTILITY IN AGREEMENT FORM.
21. ALL EXISTING WATER, STORM OR SANITARY SEWER LINES NOTED TO BE ABANDONED ARE TO BE EITHER REMOVED OR SAND FILLED AND PLUGGED AS BY DIRECTED BY THE ENGINEER AT NO ADDITIONAL EXPENSE TO THE OWNER. REUSE OF EXISTING PIPE AND STRUCTURES MUST BE APPROVED BY THE DESIGN ENGINEER AND TOWN'S CONTROLLING AUTHORITY . DISPOSAL OF UNAPPROVED MATERIAL SHALL BE AT THE CONTRACTOR'S EXPENSE.
22. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH THE STANDARD PRACTICES OF THE STATE, COUNTY OR LOCAL AGENCY HAVING JURISDICTION OVER THE MINIMUM REQUIREMENTS OF THE PROJECT, UNLESS OTHERWISE INDICATED ON THE DRAWING.
23. ALL FILL REQUIRED UNDER UTILITY LINES FOR BELOW GRADE EXCAVATIONS, SHALL BE SELECT GRANULAR MATERIAL PLACED IN TWELVE INCH (12") LIFTS AND PROPERLY COMPACTED TO 95% OF OPTIMUM DRY DENSITY.
24. PROVIDE WELL-BRACED SHORING AT EXCAVATIONS NEAR EXISTING STRUCTURES TO PREVENT DISPLACEMENT OR SETTLEMENT. ANY DAMAGES BORNE BY THE CONTRACTOR SHALL BE BROUGHT TO THE OWNERS ATTENTION AND REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.
25. BELOW GRADE PRECAST STRUCTURES ARE TO BE CONSTRUCTED TO RESIST HYDROSTATIC UPLIFT BASED ON TOTAL COMPLETION OF THESE STRUCTURES INCLUDING PLACEMENT OF ALL BACKFILL. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN GROUNDWATER LEVELS BELOW LOWEST REQUIRED EXCAVATION UNTIL SATISFACTORY COMPLETION OF REQUIRED CONSTRUCTION.
26. PROVIDE SIX INCH (6") MINIMUM OF CRUSHED STONE OR PIPE BEDDING IN EARTH UNDER ALL STRUCTURES, INCLUDING MANHOLES, DRAINAGE STRUCTURES AND RETAINING WALLS, UNLESS DIRECTED BY THE ENGINEER OR AS DETAILED ELSEWHERE IN THE DRAWINGS.
27. THE CONTRACTOR SHALL PROPERLY PROTECT ADJOINING PROPERTY OUTSIDE THE PROJECT LIMITS FROM DAMAGE. ANY DAMAGE TO THE SAME SHALL BE SUBJECT TO REPAIRS BY THE CONTRACTOR WITHOUT COST TO THE OWNER

CONSTRUCTION – CONT'D

28. ALL DRIVEWAYS, ROADS, SIDEWALK AND YARD AREAS DISTURBED BY CONSTRUCTION IN OR OUTSIDE THE PROJECT AREA SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER, AND SHALL BE GRADED TO MEET PROPOSED FINISHED GRADES. GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL BE LOAMED, FERTILIZED AND SEEDED OR SODDED, AS IT APPLIES.
29. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR UNDERTAKING ALL MEASURES NECESSARY TO PREVENT EROSION AND SILTATION, REGARDLESS OF THE METHOD USED IN ACCORDANCE WITH THE APPLICABLE LOCAL, COUNTY, AND STATE GUIDELINES. AT A MINIMUM, INSPECTIONS OF THE SITE BY A QUALIFIED INDIVIDUAL SHALL BE DONE WEEKLY AND WITHIN 24 HOURS OF ANY STORM EVENT GREATER THAN 1/2 INCH OF RAIN. PROPER ADJUSTMENTS AND MEASURES SHALL BE MADE AND REPORTS PREPARED AND KEPT ON SITE WITH A SOIL AND EROSION CONTROL PLAN PREPARED BY A REGISTERED ENGINEER. WETLAND AND WATER COURSE ELEVATIONS SHALL BE RESTORED AND CHANNELS CLEANED AND CLEARED OF CONSTRUCTION DEBRIS AND EXCESS EXCAVATED SEDIMENT THROUGHOUT THE PROJECT. ALL AFFECTED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. PENALTIES IMPOSED BY AGENCIES HAVING JURISDICTION SHALL BE BORNE BY THE CONTRACTOR.
30. THE CONTRACTOR SHALL TAKE SPECIAL CAUTION TO PRESERVE AND PROTECT FROM INJURY ALL TREES AND VEGETATION LOCATED WITHIN WETLANDS AND AS INDICATED TO REMAIN. NO UNNECESSARY CUTTING OR TRIMMING OF TREES WILL BE PERMITTED, UNLESS AUTHORIZED BY THE OWNER.
31. THE CONTRACTOR IS FURTHER RESTRICTED FROM CAUSING ANY UNNECESSARY EXCAVATIONS WITHIN THE DESIGNATED WETLAND AREA AND UNDER NO CIRCUMSTANCES SHALL THE WETLAND SOILS BE REMOVED FROM THE SITE UNLESS OTHERWISE PERMITTED OR DIRECTED BY THE OWNER OR IT'S AUTHORIZED AGENT.

PROJECT RELATED

1. SITE AREA = 437,865 SQ. FT. OR 10.052 ACRES.
2. THE PROPERTY IS ZONED DISTRICT B-R2.
3. PARCEL IS LOCATED IN ZONES A&C, AS SHOWN ON THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 090006 0005 B, EFFECTIVE DATE SEPTEMBER 30, 1983, FOR THE TOWN OF EASTON, FAIRFIELD COUNTY, CT.
4. THE VERTICAL INFORMATION SHOWN ON THIS PLAN IS BASED AN ASSUMED DATUM AND TOPOGRAPHY WAS FIELD LOCATED BY DYMAR ON OCTOBER 30, 2001.
5. THE INLAND WETLANDS SHOWN HAVE BEEN FLAGGED IN THE FIELD BY ENVIRONMENTAL PLANNING ASSOCIATES AND LOCATED BY ACCURATE SURVEY.
6. ALL PROPOSED UTILITIES ON-SITE SHALL BE INSTALLED UNDERGROUND.
7. ALL CONSTRUCTION MATERIALS, PRACTICES AND PROCEDURES SHALL CONFORM TO THE TOWN OF EASTON ENGINEERING DEPARTMENT STANDARDS AND SPECIFICATIONS.
8. TOWN OF EASTON MAP – 3772B; LOT – 33
9. ALL CONTRACTORS AND THEIR EMPLOYEES SHALL BE INFORMED THAT THEY ARE WORKING IN AN IMPORTANT PUBLIC WATER SUPPLY AREA. DURING CONSTRUCTION, NO EQUIPMENT OR MACHINERY SHALL BE REFUELED, MAINTAINED OR PARKED NEAR WETLANDS IN OR AREAS WHERE STORM RUNOFF CAN WASH POLLUTANTS INTO A WATERCOURSE. FUEL OR OTHER HAZARDOUS MATERIAL SPILLS MUST BE REPORTED IMMEDIATELY TO THE DEP OIL AND CHEMICALS SPILLS UNIT (860-424-3338) AND TO AQUARION (203-452-3511). THE PHONE NUMBERS OF BOTH AGENCIES SHOULD BE PROMINENTLY POSTED ON THE SITE.

ABBREVIATIONS

ACQ"D.	ACQUIRED
APPROX.	APPROXIMATE
ARCH.	ARCHITECT
ACCMP.	ASPHALT COATED CORRUGATED METAL PIPE
B.L.	BASE LINE
B.M.	BENCH MARK
BIT.	BITUMINOUS
B.C.L.C.	BITUMINOUS CONCRETE LIP CURBING
B.	BORING
B.B.	BOTTOM OF BANK
BDRY.	BOUNDARY
C.I.P.	CAST IRON PIPE
C.B.	CATCH BASIN
CTR.	CENTER
C.C.	CENTER TO CENTER
CL	CENTER LINE
CH	CHORD
CH.B.	CHORD BEARING
CONC.	CONCRETE
CONST.	CONSTRUCT
CTR. LN.	CONTOUR LINE
CT.	CONTRACT
C.M.P.	CORRUGATED METAL PIPE
C.P.P.	CORRUGATED PLASTIC PIPE
CULV.	CULVERT
CO.	COUNTY
△	DELTA
D.O.T.	DEPARTMENT OF TRANSPORTATION
DIA.	DIAMETER
D.B.	DISTRIBUTION BOX
D.C.P.C.	DOWELED CONCRETE PARK CURBING
DMH	DRAIN MANHOLE
D.H.	DRILL HOLE
DR.	DRIVE OR DRIVEWAY
D.I.	DROP INLET
D.I.P.	DUCTILE IRON PIPE
ESMT.	EASEMENT
E.	EAST
E.B.	EAST BOUND
E.O.R.	EDGE OF ROAD
E.O.W.	EDGE OF WATER
ELEC.	ELECTRIC
EL.	ELEVATION
E.W.	END WALL
E.S.	END SECTION
ENG.	ENGINEER
EVGN.	EVERGREEN
EX.	EXISTING
F.B.	FIRE BOX
F.E.	FLARED END
FLR.	FLOOR
FT.	FOOT OR FEET
FND.	FOUNDATION
FR.	FRAME
GALY	GALLEY
G.P.D.	GALLONS PER DAY
GAL.I.	GALVANIZED IRON
GAR.	GARAGE
G.G.	GAS GATE
GRAV.	GRAVEL
G.S.C.	GRANITE SLOPE CURBING
G.ST.C.	GRANITE STONE CURBING
G.P.S.	GROSS PARTICLE SEPARATOR
GRD.	GROUND
GD. RL.	GUIDE RAIL
H.B.	HAY BALE
H.W.	HEADWALL
HGT.	HEIGHT
HEM.	HEMLOCK
HICK.	HICKORY
HWY.	HIGHWAY
HWY. MON.	HIGHWAY MONUMENT
HORZ.	HORIZONTAL
HO.	HOUSE
H.R.	HANDICAP RAMP
HYD.	HYDRANT
IN.	INCH OR INCHES
I.F.O.C.	INSIDE FACE OF CURB
I.P.	IRON PIPE
INV.	INVERT
LT.	LEFT
L.	LENGTH
L.V.C.	LENGTH OF VERTICAL CURVE
LIM.	LIMIT
L.F.	LINEAR FEET
MAC.	MACADAM
M.B.	MAIL BOX
M.H.	MANHOLE
MPL.	MAPLE
MAX.	MAXIMUM
M.H.W.	MEAN HIGH WATER
M.J.	MECHANICAL JOINT
M.B.R.	METAL BEAM RAIL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MON.	MONUMENT
N.	NORTH
N.B.	NORTH BOUND
NO., #	NUMBER
O.T.	OIL TRAP
P	PERCOLATION TEST
P.E.	PERMANENT EASEMENT
P.C.C.	POINT OF COMPOUND CURVATURE
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
P.R.C.	POINT OF REVERSE CURVATURE
P.V.C.C.	POINT OF VERTICAL COMPOUND CURVATURE
P.V.C.	POINT OF VERTICAL CURVATURE
P.V.I.	POINT OF VERTICAL INTERSECTION
P.V.R.C.	POINT OF VERTICAL REVERSE CURVATURE
P.V.T.	POINT OF VERTICAL TANGENCY
P.O.C.	POINT ON CURVATURE
P.O.T.	POINT ON TANGENT
P.V.C.	POLYVINYL CHLORIDE PIPE
PD	POND
PROJ.	PROJECT
PL	PROPERTY LINE
PROP.	PROPOSED
PUB. UTL.	PUBLIC UTILITY
P.B.	PULL BOX
P.S.	PUMP STATION
R.	RADIUS
R.R.	RAILROAD
REINF.	REINFORCED
R.C.P.	REINFORCED CONCRETE PIPE
RELOC.	RELOCATED OR RELOCATION
REQ'D.	REQUIRED
RET.	RETAINING
R.W.	RETAINING WALL
RT/	RIGHT
R.O.W.	RIGHT OF WAY
RD.	ROAD
RWY.	ROADWAY
R.D.	ROOF DRAIN
SAN.	SANITARY
S.M.H.	SANITARY MANHOLE
SECT.	SECTION
S.T.	SEPTIC TANK
SHLD.	SHOULDER
S.W.	SIDEWALK
S.F.	SILT FENCE
S.	SOUTH OR SLOPE
S.B.	SOUTH BOUND
SPEC.	SPECIFICATION
SPK.	SPIKE
SP. ELEV.	SPOT ELEVATION
STK.	STAKE
STD.	STANDARD
STA.	STATION
ST. W.	STONE WALL
S.S.	STORM DRAIN OR SEWER
STY.	STORY
ST.	STREET
S.L.J.	SUPER LOCK JOINT
SYC.	SYCAMORE
TAN.	TANGENT
TEL.	TELEPHONE
TEMP.	TEMPORARY
T.E.	TEMPORARY EASEMENT
T.H.	TEST HOLE
T.C.G.R.	THREE CABLE GUIDE RAILING
TMBR.	TIMBER
T.S.	TOE OF SLOPE
T.B.	TOP OF BANK
T.F.	TOP OF FRAME
T.G.	TOP OF GRATE
TRANS.	TRANSITION
T.P.	TRAVERSE POINT
TW.	TWIN
TW. C.G.R.	TWO CABLE GUIDE RAILING
U.D.	UNDER DRAIN
VERT.	VERTICAL
V.C.	VERTICAL CURVE
V.C.P.	VITRIFIED CLAY PIPE
W.BK.	WATER BREAK
W.G.	WATER GATE
W.M.	WATER MAIN
W.S.E.	WATER SURFACE ELEVATION
W.	WEST
W.B.	WEST BOUND
WL.	WETLAND
W.W.	WINGWALL
W.R.R.	WIRE ROPE RAILING
W/	WITH
W/O	WITHOUT
WD.	WOOD
W.I.	WROUGHT IRON
YD.	YARD
Y.D.	YARD DRAIN

REVISION

NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

DYMAR
800 Main Street South · Southbury, Ct. 06488 · (203) 267-1046 · Fax (203) 267-1547
ENGINEERING · PLANNING · SURVEYING · DEVELOPMENT SERVICES

DRAWINGS TO BE USED FOR LAND USE SUBMISSIONS ONLY
NOT FOR CONSTRUCTION

CLIENT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: General Legend, Notes, & Abbreviations

DATE:	02/15/21
SCALE:	NO SCALE
DESIGNED BY:	M.E.L.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C-1

DESIGN DATA – CLUB HOUSE B100a

1. SYSTEM IS DESIGNED FOR A 7 TENNIS COURTS @ 150 GPD/COURT FOR TOTAL 1,050 GPD.
2. MINIMUM SIZE SEPTIC TANK REQUIRED BY THE T.A.H.D. IS 1,250 GALLON.
3. SIZE OF EXISTING SEPTIC TANK IS 1,250 GALLONS.
4. SYSTEM IS DESIGNED BASED ON A PERCOLATION RATE OF 1" IN 20.1 TO 30 MINUTES.
5. MINIMUM SIZE OF LEACHING SYSTEM REQUIRED BY THE STATE HEALTH CODE IS 1,050 GPD /0.9 GPD/SFT = 1,167 SQUARE FEET OF EFFECTIVE AREA.
6. SIZE OF SYSTEM PROVIDED IS 84 LINEAR FEET OF 24" HIGH GREENLEACH FILTER GLF 24.62 WITH AN APPLICATION RATE OF 14 SFT/LF, SFT PROVIDED = (84 LF) x (14 SFT/LF) = 1,176 SFT.
7. MINIMUM LEACHING SPREAD NOT REQUIRED, NO RESTRICTIVE LAYERS.
8. MINIMUM LEACHING SPREAD PROVIDED IS: 84 L.F.
9. SYSTEM "WAS NOT" DESIGNED FOR GARBAGE GRINDER USE.
10. SYSTEM "WAS NOT" DESIGNED FOR A BATH TUB WITH A CAPACITY GREATER THAN 100 GALLONS. IF ANYMORE ARE TO BE INSTALLED CONTACT THE DESIGN ENGINEER FOR REQUIRED INCREASE TO THE SEPTIC TANK AND/OR LEACHING AREAS. ALL CHANGES MUST BE APPROVED BY THE DESIGN ENGINEER AND LOCAL HEALTH DEPARTMENT OFFICIALS.
11. LOT IS SERVED BY PRIVATE WELL.

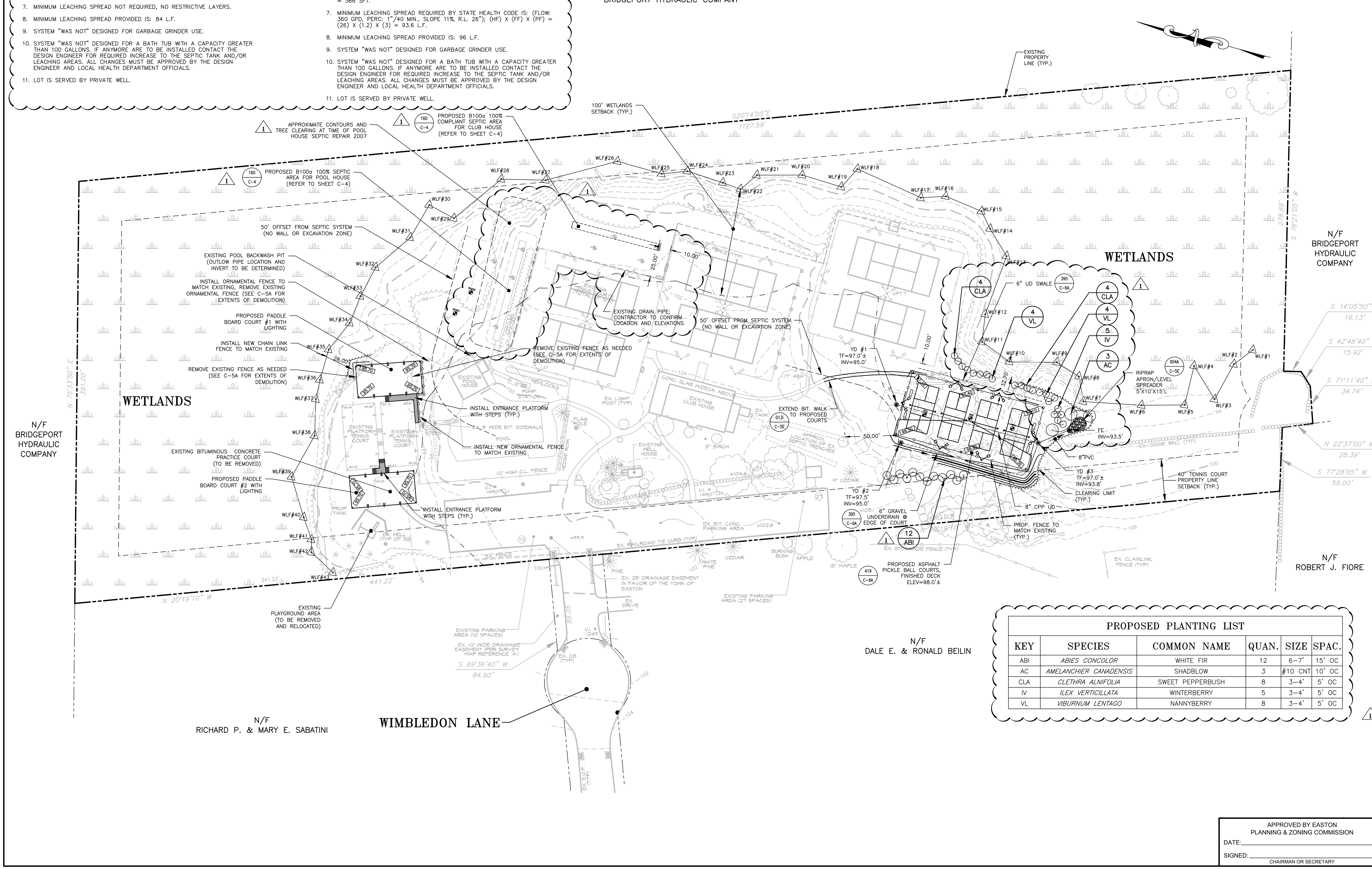
DESIGN DATA – POOL HOUSE B100a

1. SYSTEM IS DESIGNED FOR 36 BATHERS @ 10GPD/BATHER = 360 GPD.
2. MINIMUM SIZE SEPTIC TANK REQUIRED BY THE T.A.H.D. HEALTH DEPARTMENT IS 1,000 GALLON.
3. SIZE OF EXISTING SEPTIC TANK IS 1,000 GALLONS.
4. SYSTEM IS DESIGNED BASED ON A PERCOLATION RATE OF 1" IN 30.1 TO 45 MINUTES.
5. MINIMUM SIZE OF LEACHING SYSTEM REQUIRED BY THE STATE HEALTH CODE IS 360 GPD/0.7 GPD/SFT = 515 SQUARE FEET OF EFFECTIVE AREA.
6. SIZE OF SYSTEM PROVIDED IS 96 LINEAR FEET OF 12" HIGH INFILTRATOR QUICK4 STANDARD (SIDE–BY–SIDE GALLERY CONFIGURATION) WITH AN APPLICATION RATE OF 5.9 SFT/LF, ELA PROVIDED = (96 LF) x (5.9 SFT/LF) = 566 SFT.
7. MINIMUM LEACHING SPREAD REQUIRED BY STATE HEALTH CODE IS: (FLOW: 360 GPD, PERC: 1"/40 MIN., SLOPE 11%, R.L. 26"); (HF) X (FF) X (PF) = (26) X (1.2) X (3) = 93.6 L.F.
8. MINIMUM LEACHING SPREAD PROVIDED IS: 96 L.F.
9. SYSTEM "WAS NOT" DESIGNED FOR GARBAGE GRINDER USE.
10. SYSTEM "WAS NOT" DESIGNED FOR A BATH TUB WITH A CAPACITY GREATER THAN 100 GALLONS. IF ANYMORE ARE TO BE INSTALLED CONTACT THE DESIGN ENGINEER FOR REQUIRED INCREASE TO THE SEPTIC TANK AND/OR LEACHING AREAS. ALL CHANGES MUST BE APPROVED BY THE DESIGN ENGINEER AND LOCAL HEALTH DEPARTMENT OFFICIALS.
11. LOT IS SERVED BY PRIVATE WELL.

ZONING DATA

ZONING DISTRICT: B-R3

	REQUIRED	PROVIDED
MAX. BUILDING HEIGHT	35'	35'
TENNIS COURT SETBACK		
FROM PROPERTY LINE	40 LF	42.3 LF
FROM STREETLINE	50 LF	322± LF
MAXIMUM BLDG. COVERAGE	10%	0.97%
MAXIMUM GROUND COVERAGE	30%	20.76%



PROPOSED PLANTING LIST

KEY	SPECIES	COMMON NAME	QUAN.	SIZE	SPAC.
ABI	*ABIES CONCOLOR*	WHITE FIR	12	6-7'	15' OC
AC	*AMELANCHIER CANADENSIS*	SHADBLOW	3	#10 CNT	10' OC
CLA	*CLETHRA ALNIFOLIA*	SWEET PEPPERBUSH	8	3-4'	5' OC
IV	*ILEX VERTICILLATA*	WINTERBERRY	5	3-4'	5' OC
VL	*VIBURNUM LENTAGO*	NANNYBERRY	8	3-4'	5' OC

APPROVED BY EASTON PLANNING & ZONING COMMISSION

DATE:________________

SIGNED:________________

CHAIRMAN OR SECRETARY

REVISION

NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	3-26-21	Added landscaping, B100a septic design notes.	S.A.L.	M.E.L.

DYMAR
800 Main Street South · Southbury, Ct. 06488 · (203) 267-1046 · Fax (203) 267-1547
ENGINEERING · PLANNING · SURVEYING · DEVELOPMENT SERVICES

DRAWINGS TO BE USED FOR LAND USE SUBMISSIONS ONLY
NOT FOR CONSTRUCTION

CLIENT: Easton Racquet Club, Inc.
36 Wimbledon Lane, P.O. Box 152
Easton, CT 06612

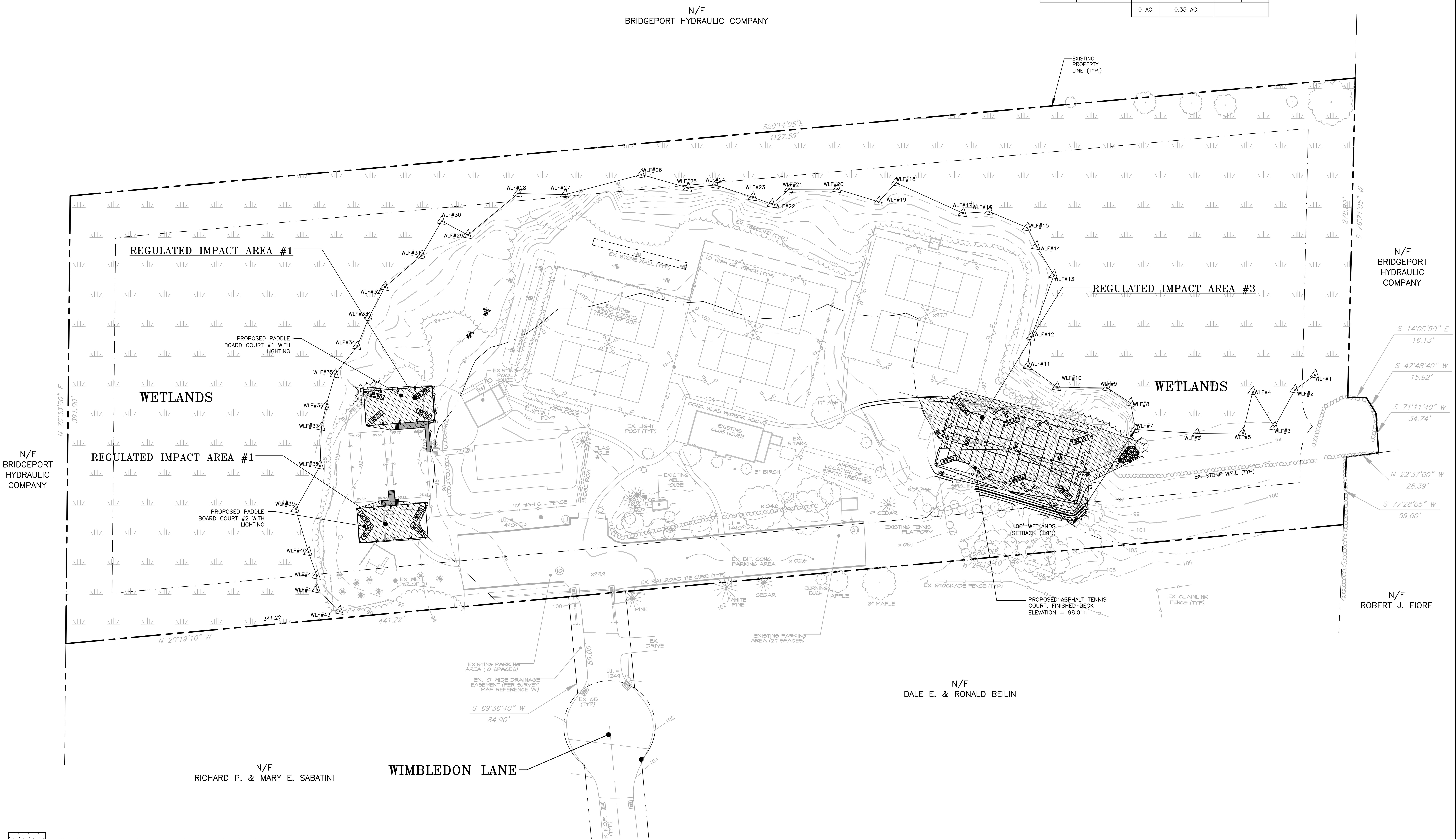
PROJECT: Easton Racquet Club, Inc.
36 Wimbledon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Site Development and Grading Plan

DATE:	02/15/21
SCALE:	1"=40'
DESIGNED BY:	M.E.L.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C-2

SUMMARY OF REGULATED ACTIVITIES

R.I.A.#	DESCRIPTION OF ACTIVITY	WETLAND AREA			100' WETLANDS SETBACK AREA (PROPOSED)	100' WETLANDS SETBACK AREA (TOTAL)	
		CUT(CY)	FILL(CY)	AREA(SF)	AREA(SF)	CUT(CY)	FILL(CY)
1	PADDLE BOARD COURT #1	0	0	0	2,119	3	0
2	PADDLE BOARD COURT #2	0	0	0	1,824	3	0
3	PICKLEBALL COURTS, GRADING AND DRAINAGE	0	0	0	11,203	86	356
REGULATED IMPACT AREA = R.I.A.	TOTALS	0	0	0	15,146	92	356
				0 AC	0.35 AC.		



	EXISTING DISTURBED WETLANDS SETBACK AREA
	PROPOSED DISTURBED WETLANDS SETBACK AREA
	PROPOSED CONSTRUCTION ACTIVITIES WITHIN EXISTING FACILITY AREAS

REVISION				
NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

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CLIENT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Wetlands Impact Plan

DATE:	02/15/21
SCALE:	1"=40'
DESIGNED BY:	M.E.L.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C-3

TESTING PERFORMED BY DYMAR ON DECEMBER 3, 2005, EASTON RACQUET CLUB, JOB #00335 -LOCAL HEALTH DEPARTMENT WAS PRESENT

TEST HOLE #1
0" – 4" DARK BROWN TOP SOIL
4" – 18" BROWN SANDY LOAM WITH TRACE GRAVEL AND TRACE COBBLES
18" – 42" OLIVE BROWN VERY SILTY MEDIUM SAND WITH LITTLE TO SOME GRAVEL
42" – 90" GREY BROWN MICA SCHIST WITH LITTLE GRAVEL AND TRACE COBBLES

ROOTS: 50"
GROUNDWATER: 84"
LEDGE: NONE
MOTTLING: 26"
COMMENTS: NONE

PERCOLATION TEST
DEPTH: 20"
PRESOAK TIME: 12:45
STARTING TIME: 13:45
TIME DEPTH
0 MIN –
5 MIN 0.87'
10 MIN 0.90'
15 MIN 0.92'
20 MIN 0.94'
25 MIN 0.96'
30 MIN 0.98'
40 MIN 1.02'
50 MIN 1.05'
60 MIN 1.08'

SEEPAGE RATE: 1" / 27' MIN

TEST HOLE #2
0" – 4" DARK BROWN TOP SOIL
4" – 84" BROWN VERY SILTY FINE SAND WITH SOME GRAVEL, FEW COBBLES, AND FEW STONES

ROOTS: 54"
GROUNDWATER: NONE
LEDGE: NONE
MOTTLING: NONE
COMMENTS: AT 54" MICA IS PRESENT TO BOTTOM

PERCOLATION TEST
DEPTH: 24"
PRESOAK TIME: 12:45
STARTING TIME: 13:45
TIME DEPTH
0 MIN –
5 MIN 1.37'
10 MIN 1.45'
15 MIN 1.49'
20 MIN 1.53'
25 MIN 1.56'
30 MIN 1.58'
40 MIN 1.61'
50 MIN 1.64'
60 MIN 1.66'

SEEPAGE RATE: 1" / 40' MIN

TEST HOLE #3
0" – 2" DARK BROWN TOP SOIL
2" – 60" LIGHT BROWN, VERY SILTY MEDIUM FINE SAND WITH LITTLE GRAVEL, FEW COBBLES, AND TRACE BOULDERS
60" – 72" DARK BROWN LOAM
72" – 90" DARK BROWN VERY SILTY MEDIUM FINE SAND WITH TRACE GRAVEL

ROOTS: 72"
GROUNDWATER: NONE
LEDGE: NONE
MOTTLING: 58"
COMMENTS: AREA SEEMS TO HAVE BEEN FILLED

TEST HOLE #4
0" – 4" DARK BROWN TOP SOIL
4" – 84" BROWN VERY SILTY MEDIUM FINE SAND WITH SOME GRAVEL, SOME COBBLES, AND FEW STONES

ROOTS: 24"
GROUNDWATER: NONE
LEDGE: NONE
MOTTLING: NONE
COMMENTS: MICA ROCK STARTS AT 48"

PERCOLATION TEST
DEPTH: 30–32"
PRESOAK TIME: 12:45
STARTING TIME: 13:45
TIME DEPTH
0 MIN –
5 MIN 1.54'
10 MIN 1.61'
15 MIN 1.67'
20 MIN 1.69'
25 MIN 1.72'
30 MIN 1.74'
40 MIN 1.79'
50 MIN 1.82'
60 MIN 1.85'

SEEPAGE RATE: 1" / 27' MIN

TEST HOLE #5
0" – 4" DARK BROWN TOP SOIL
4" – 26" LIGHT BROWN VERY SILTY FINE SAND WITH LITTLE GRAVEL
26" – 36" VERY DARK BROWN SANDY LOAM
36" – 84" DARK BROWN VERY SILTY FINE SAND WITH GRAVEL, FEW COBBLES, AND SOME STONES

ROOTS: NONE
GROUNDWATER: NONE
LEDGE: NONE
MOTTLING: STAINING SPOTTY AT 36", STAINING APPEARS TO BE FROM RUNOFF FROM TENNIS COURTS, NOT FROM A HIGH GROUND WATER TABLE
THIRD LAYER MAY BE FROM REMNANTS OF STOCKPILE AREA. (AREA APPEARS TO BE IN CUT FROM ORIGINAL GRADE)

PERCOLATION TEST
DEPTH: 40"
PRESOAK TIME: 11:30
STARTING TIME: 12:35
TIME DEPTH
0 MIN –
5 MIN 1.92'
10 MIN 1.94'
15 MIN 1.96'
20 MIN 1.97'
25 MIN 1.98'
30 MIN 1.99'
40 MIN 2.01'
50 MIN 2.03'
60 MIN 2.04'

SEEPAGE RATE: 1" / 60–80' MIN

TEST HOLE #6
0" – 3" DARK BROWN TOP SOIL
3" – 36" DARK ORANGE BROWN SILTY FINE SAND AND GRAVEL WITH FEW COBBLES AND SOME STONES
36" – 78" DARK OLIVE BROWN SILTY FINE SAND AND GRAVEL WITH FEW COBBLES AND SOME STONES

ROOTS: NONE
GROUNDWATER: NONE
LEDGE: NONE
MOTTLING: : STAINING SPOTTY AT 36", STAINING APPEARS TO BE FROM RUNOFF FROM TENNIS COURTS, NOT FROM A HIGH GROUND WATER TABLE
COMMENTS: MANY NESTED ANGULAR COBBLES AND STONES IN BOTTOM LAYER

TEST HOLE #7
0" – 3" DARK BROWN TOP SOIL
3" – 26" LIGHT BROWN VERY SILTY FINE SAND WITH LITTLE GRAVEL
26" – 36" VERY DARK BROWN SANDY LOAM
36" – 84" DARK BROWN VERY SILTY FINE SAND WITH GRAVEL, FEW COBBLES, AND SOME STONES

ROOTS: NONE
GROUNDWATER: NONE
LEDGE: NONE
MOTTLING: STAINING AT 24" – 26"
COMMENTS: STAINING APPEARS TO BE FROM RUNOFF FROM TENNIS COURTS, NOT FROM A HIGH GROUND WATER TABLE (AREA APPEARS TO BE IN CUT FROM ORIGINAL GRADE)

TEST HOLE #8
0" – 4" DARK BROWN TOP SOIL
4" – 24" MEDIUM BROWN VERY SILTY MEDIUM SAND AND GRAVEL WITH FEW TO SOME COBBLES AND FEW TO SOME STONES
24" – 30" ORANGE BROWN VERY SILTY MEDIUM SAND AND GRAVEL
30" – 54" BROWN VERY SILTY MEDIUM SAND AND GRAVEL WITH SOME COBBLES
54" – 78" TAN BROWN SILTY MEDIUM FINE SAND WITH TRACE GRAVEL AND TRACE COBBLES

ROOTS: NONE
GROUNDWATER: NONE
LEDGE: NONE
MOTTLING: NONE
COMMENTS: NONE

PERCOLATION TEST
DEPTH: 36"
PRESOAK TIME: 11:30
STARTING TIME: 12:35
TIME DEPTH
0 MIN –
5 MIN 1.99'
10 MIN 2.05'
15 MIN 2.08'
20 MIN 2.10'
25 MIN 2.12'
30 MIN 2.13'
40 MIN 2.15'
50 MIN 2.17'
60 MIN 2.19'

SEEPAGE RATE: 1" / 40' MIN

PERCOLATION TEST (3/29/02)
DEPTH: 30"
PRESOAK TIME: 13:00
STARTING TIME: 13:55
TIME DEPTH
0 MIN 1.25'
5 MIN 1.35'
10 MIN 1.41'
15 MIN 1.46'
20 MIN 1.50'
25 MIN 1.53'
30 MIN 1.55'
40 MIN 1.60'
50 MIN 1.64'
60 MIN 1.68'

SEEPAGE RATE: 1" / 20' MIN

TESTING PERFORMED BY DYMAR ON OCTOBER 23, 2020, MARCH 23, 2021 EASTON RACQUET CLUB, JOB #00335

TEST HOLE #TH1 (PROPOSED PICKLEBALL COURT)
0" – 5" DARK BROWN TOPSOIL
5" – 24" YELLOW BROWN LOAM, TRACE GRAVEL
24" – 60" OLIVE BROWN VERY COMPACT SILTY GLACIAL TILL, WET

ROOTS: NONE
GROUNDWATER: NONE
LEDGE: NONE
MOTTLING: 28", VERY STRONG
COMMENTS: NONE

TEST HOLE #TH2 (PROPOSED PICKLEBALL COURT)
0" – 12" DARK BROWN FILL SUBSOIL WITH BOULDERS
12" – 30" ORGANIC TOPSOIL, WET

ROOTS: NONE
GROUNDWATER: NONE
LEDGE: NONE
MOTTLING: 12", STRONG

TEST HOLE #TH3 (PROPOSED PICKLEBALL COURT)
0" – 6" TOPSOIL
6" – 48" GREY FINE SILTY LOAM WITH TRACE CLAY, TRACE GRAVEL, FILL

ROOTS: NONE
GROUNDWATER: NONE
LEDGE: NONE
MOTTLING: 12", STRONG
COMMENTS: NONE

TEST HOLE #201 (SANITARIAN PRESENT)
0" – 6" DARK BROWN TOPSOIL
6" – 21" MISCELLANEOUS FILL
21" – 37" LIGHT BROWN LOAM (ORIGINAL SOIL)
37" – 80" OLIVE BROWN FINE TO MEDIUM SAND, TRACE SILT, TRACE GRAVEL, TRACE BOULDERS

ROOTS: 6"
GROUNDWATER: 75"
LEDGE: 80"
MOTTLING: 24"

TEST HOLE #202 (SANITARIAN PRESENT)
0" – 9" DARK BROWN TOPSOIL
9" – 27" MISCELLANEOUS FILL
27" – 45" LIGHT BROWN LOAM (ORIGINAL SOIL)
45" – 75" OLIVE BROWN FINE TO MEDIUM SAND, TRACE SILT, TRACE GRAVEL, TRACE BOULDERS

ROOTS: 9" (DENSE)
GROUNDWATER: NONE
LEDGE: 75"
MOTTLING: 22"

SELECT FILL REQUIREMENTS:

1. THESE SELECT FILL REQUIREMENTS SHALL MEET THE CONNECTICUT PUBLIC HEALTH CODE TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS AS PUBLISHED JANUARY 2015 UNLESS NOTED OTHERWISE.
2. THE FILL MATERIAL SHOULD NOT CONTAIN ANY MATERIAL LARGER THAN THREE (3) INCHES. A SIEVE ANALYSIS SHOULD BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE IN-PLACE FILL. IT IS RECOMMENDED THAT THE SYSTEM NOT BE INSTALLED UNTIL THE SEPTIC FILL HAS PASSED THE SIEVE TEST. UP TO 45% OF THE DRY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED ON THE #4 SIEVE. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN DRIED AND REWEIGHED AND THE SIEVE ANALYSIS STARTED. THE SIEVE ANALYSIS MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS:

SIEVE SIZE	PERCENT PASSING BY WEIGHT WET SIEVE	DRY SIEVE
#4	100	100
#10	70–100	70–100
#40	10–50*	10–75
#100	0–20	0–5
#200	0–5	0–2.5

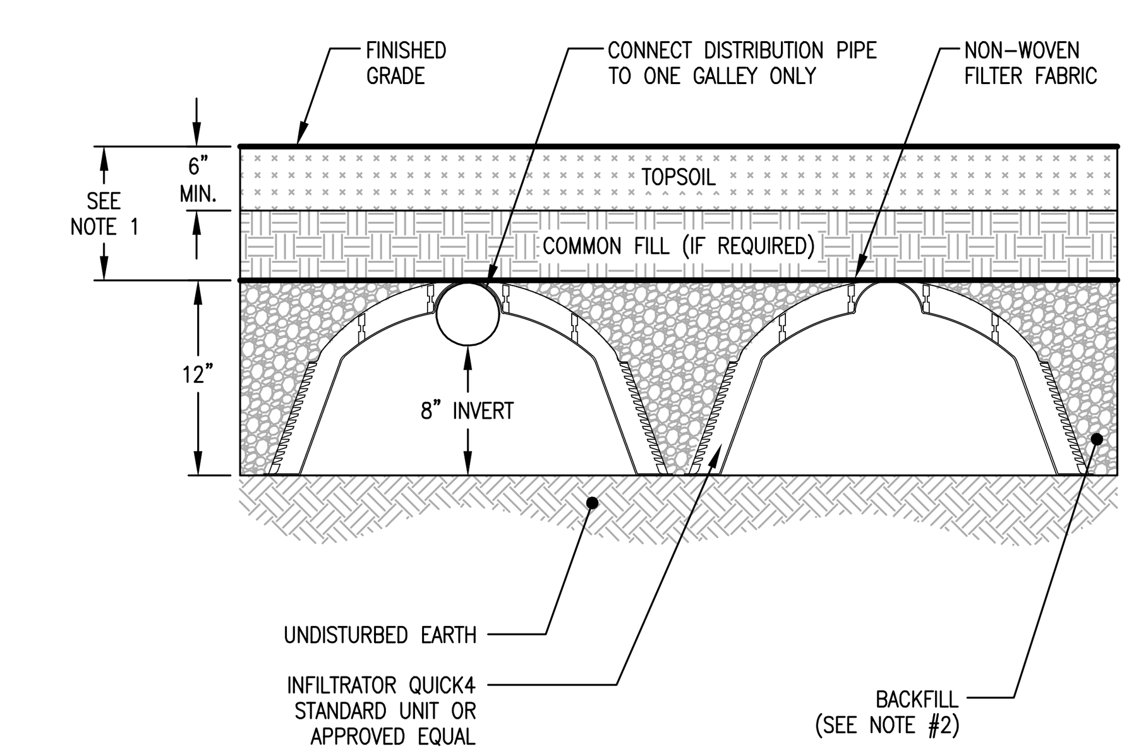
* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

3. FILL SHALL BE PLACED IN MAXIMUM LOOSE LIFT HEIGHTS OF TWELVE INCHES (12") AND TO BE COMPACTED TO 90%–95% MODIFIED OPTIMUM DRY DENSITY BY ASTM 1557 METHOD "C", UNTIL REQUIRED LEVEL IS OBTAINED. FIELD DENSITY TESTS SHALL BE CONDUCTED IN EACH LIFT IF REQUIRED BY THE HEALTH DEPARTMENT.
4. THE SEQUENCE FOR THE PLACING OF FILL IS TO BE AS FOLLOWS:
   A. STRIP TOPSOIL WITHIN FILL LIMITS AND STOCKPILE OUTSIDE SEPTIC AREA FOR FUTURE USE. DO NOT STRIP TOPSOIL WITHIN 48 HOURS OF A RAIN STORM OR IF THERE ARE STANDING PUDDLES.
   B. EXCAVATE EXISTING MATERIAL TO DEPTHS AS SHOWN IN CROSS SECTION "A–A". CONTRACTOR TO CHECK ELEVATION OF SUBGRADE FOR REQUIRED SLOPES PRIOR TO PLACING SELECT FILL.
   C. FOLLOWING STRIPPING, THE STRIPPED SURFACE SHALL BE SCARIFIED WITH THE TEETH OF AN EXCAVATOR WORKING PARALLEL TO THE SURFACE TOPOGRAPHY.
   D. FILL SHALL BE DEPOSITED AT THE UPHILL EDGE OF THE LEACHING AREA AND PUSHED INTO THE SCARIFIED SURFACE. ANY DISTURBANCE TO THE SCARIFIED SURFACE SHALL REQUIRE RE-SCARIFICATION. FILLING AND COMPACTION SHOULD BE DISCONTINUED DURING RAIN STORMS AND FOR 24 HOURS THEREAFTER.
5. AFTER ALL THE SELECT SEPTIC FILL HAS BEEN PLACED, THE DESIGN ENGINEER SHALL PERFORM A PERCOLATION TEST TO VERIFY THAT THE IN PLACE PERCOLATION RATE IS BETTER THAN OR EQUAL TO THE DESIGN RATE.

NOTES:

1. THE CLUB SHALL MAINTAIN ITS CURRENT MEMBERSHIP AMOUNT OF 153 MEMBERS. ANY ADDITION TO THE MEMBERSHIP SHALL REQUIRE A RE-EVALUATION OF THE SEPTIC DESIGN.
2. CONTRACTOR TO CONTACT TOWN INLAND WETLAND ENFORCEMENT OFFICER TO VERIFY ADDITIONAL EROSION CONTROL MEASURES TO PRIOR TO THE START OF WORK.
3. EXCESS WATER USAGE DURING LARGE WEEKEND EVENTS WILL REQUIRE THE USE OF PORT-A-JOHNS.
4. WATER METERS TO BE INSTALLED AT LOCATIONS APPROVED BY DYMAR AND MONITORED DURING THE SUMMER MONTHS.
5. CONTRACTOR SHALL CONFIRM INVERT ELEVATIONS AT EXISTING POOL HOUSE PRIOR TO CONSTRUCTION. ENGINEER TO BE CONTACTED IF FIELD CONDITIONS REQUIRE DESIGN REVISIONS.

NOTES:
1. MINIMUM 12" OF COVER TO MEET H-10 LOADING, AND 24" OF COVER TO MEET H-20 LOADING.
2. UNITS MUST BE BACKFILLED WITH CT DOT NO. 4 STONE AGGREGATE AS DEFINED IN THE CT PUBLIC HEALTH CODE.



H-10 LOAD RATING

SEP 160 **12" SIDE-BY-SIDE INFILTRATOR QUICK4 GALLEY TRENCH DETAIL**
N.T.S.

CONSTRUCTION SPECIFICATIONS & STANDARDS

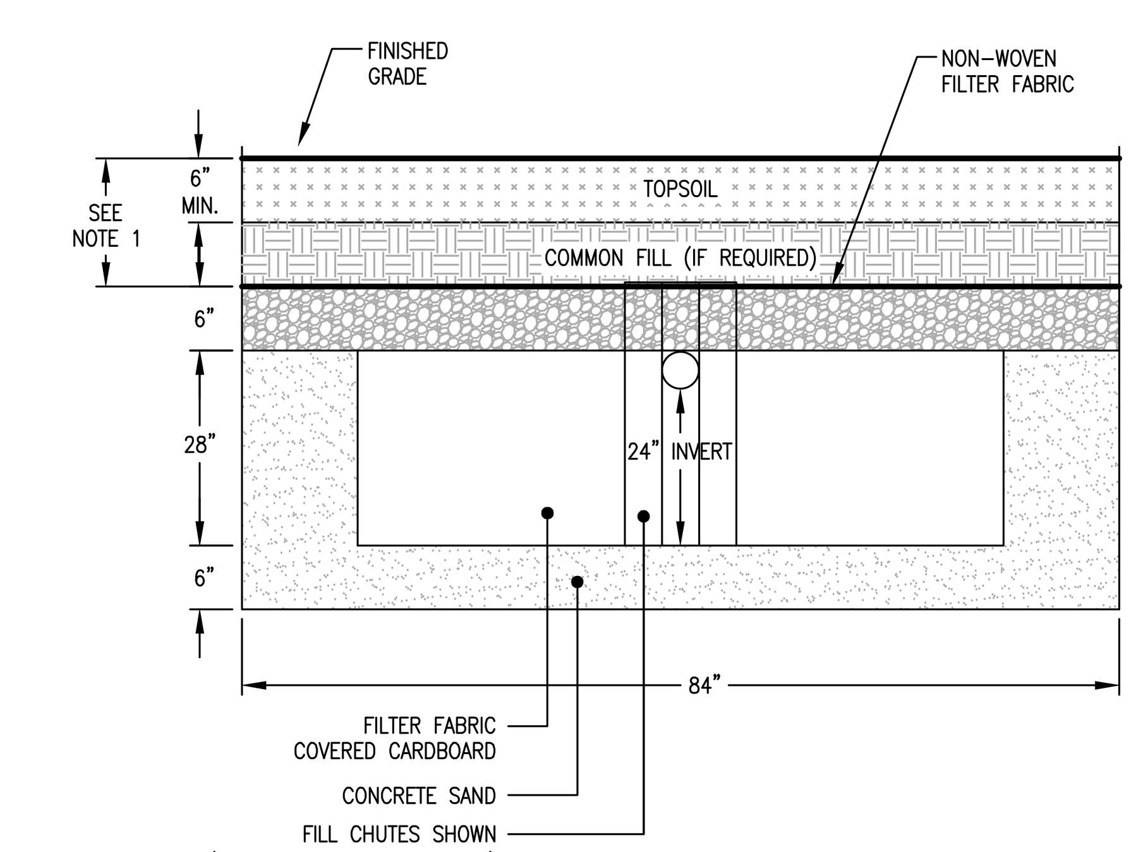
A. MANHOLES, CATCH BASINS AND STRUCTURES:

1. Refer to details.

B. STORM SEWER PIPES:

1. All R.C.P. Storm Sewer Drainage Pipe specified shall be CLASS IV in streets and unimproved areas, except fifteen inch (15") catch basin laterals shall be CLASS V, or approved equal.
2. All curtain drain pipe shall be 4", 6" or 8" (as specified on the drawings) perforated polyvinyl chloride plastic pipe (PVC) conforming to ASTM D 1785 with couplings and elbows shall conform to the requirements of ASTM D 2466 or D 2467. Class 'I' heavy duty type, minimum slots 1/4" clear opening, except as otherwise shown on the plans. Pipe shall exit to a gravel lined drainage swale or drainage structure. All aggregate for underdrain shall be washed, size as specified.
3. Pipe lengths for the storm drainage system are measured from centerline of structure to centerline of structure with the exception of flared ends which are measured from the outer most edge.
4. Pipe inverts for storm drainage structures are measured at their centerline, while inverts for flared ends measured at their outer most edge.
5. All piping shall be founded on a stone bedding in CLASS "B" and "C" trench installations for either earth or rock excavations, unless otherwise directed by the engineer. Refer to details.
6. All pipe backfill shall be placed in compacted twelve inch (12") loose lifts to an AASHTO T-99 density of 95% to proposed subgrade.
7. Pipes shall be cut flush to the inside walls of all structures. Openings at knockouts shall be mortared tight with a non-shrink grout. Concrete inverts and aprons shall be constructed to full pipe diameter of the existing or proposed pipe within manholes. Aprons shall slope to drain. Smaller pipe sizes entering structures shall, at a minimum, match the crown of the outgoing pipe, except as otherwise specified for critical elevations for upstream structures or in the case of significant grade changes.

NOTES:
1. MINIMUM 12" OF COVER TO MEET H-10 LOADING, AND 24" OF COVER TO MEET H-20 LOADING.
2. UNITS MUST BE BACKFILLED WITH CT DOT NO. 6 STONE AGGREGATE AS DEFINED IN THE CT PUBLIC HEALTH CODE.



H-10 LOAD RATING

SEP 161 **GREENLEACH FIELD TRENCH DETAIL**
N.T.S.

1 (revision triangle)

NOTE:
1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION, BY CALLING 1-800-922-4455.

REVISION NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	3-26-21	Added test hole data and details.	S.A.L.	M.E.L.

DYMAR
800 Main Street South · Southbury, Ct. 06488 · (203) 267-1046 · Fax (203) 267-1547
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36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Construction Specifications & Standards and Test Hole Data and Septic Details

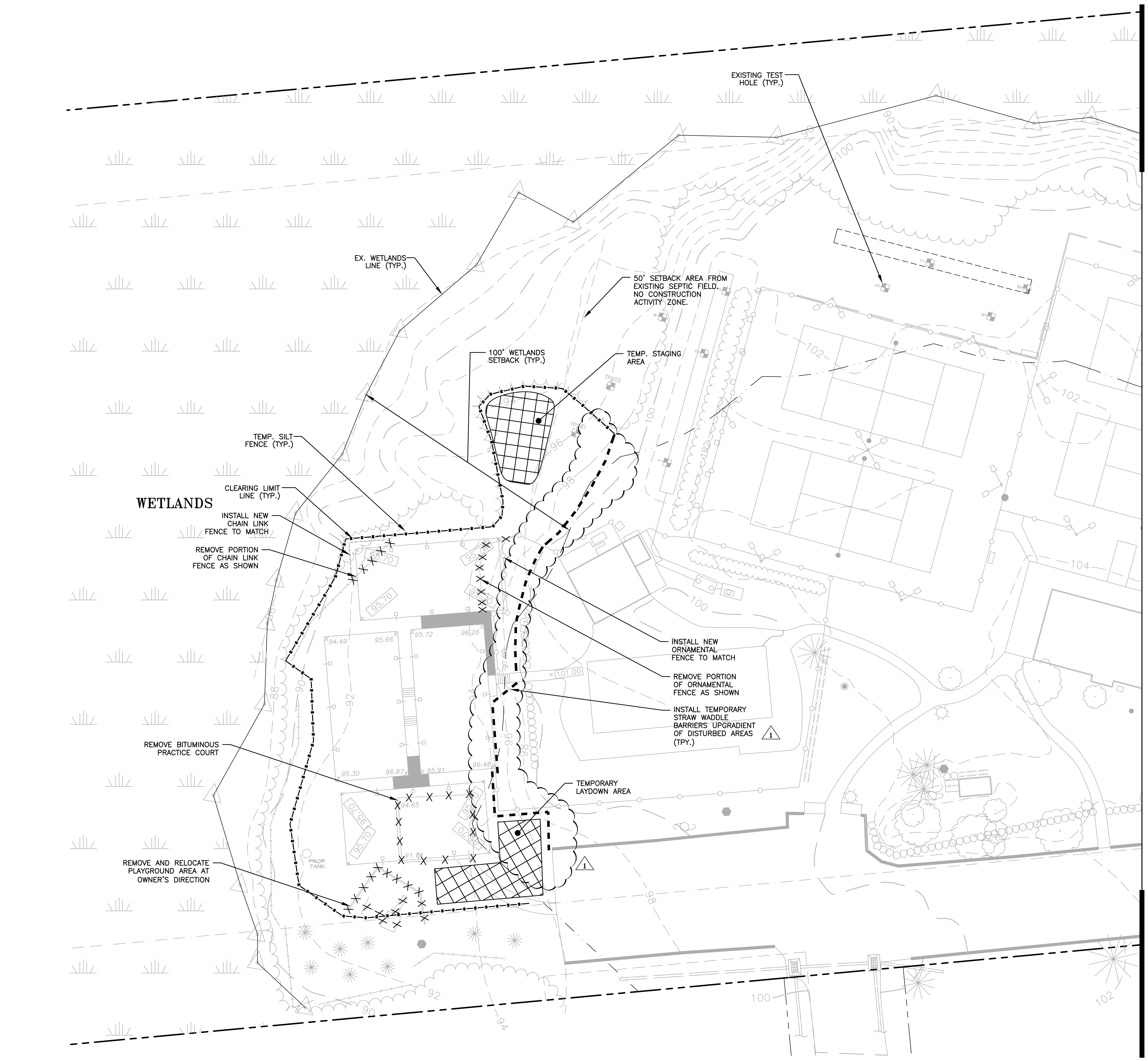
DATE:	02/15/21
SCALE:	N.T.S.
DESIGNED BY:	M.E.L.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C-4

EROSION & SEDIMENTATION CONTROL LEGEND

ABBREVIATIONS:
LS – LEVEL SPREADER
TSP – TEMPORARY SOIL PROTECTION
TRM – TURF REINFORCEMENT MAT
SSP – STONE SLOPE PROTECTION
WCFM – WOOD CELLULOSE FIBER MULCH W/TACKIFIER
ECB – EROSION CONTROL BLANKET

KEY		
GSF	SILT FENCE	—*—*—*—*—
CE	ANTI-TRACKING PAD	
HB	HAY BALES	
SW	STRAW WADDLE BARRIER	
IP *	DRAIN INLET SILTSACK TRAP	
WB *	WATER BREAK	
TS *	TEMPORARY SWALE	
PS *	PERMANENT SWALE	
SCD *	STONE CHECK DAM	
HCD *	HAY BALE CHECK DAM	
SS *	SLOPE SOIL STABILIZATION	
SA *	STOCKPILE AREA	
MTA *	MATERIAL STAGING AREA	
OP	RIPRAP OUTLET SPLASH PAD	
LS	PLUNGE POOL	
SB	SEDIMENTATION/ STILLING BASIN	
TST	SEDIMENTATION TRAP	
TP	TREE PROTECTION	

NOTE:
1. KEY BASED ON 2002 CT EROSION & SEDIMENTATION CONTROL GUIDELINES. IF MARKED BY *, NOT FOUND IN BOOK.
2. TREES WITHIN CLEAR LIMIT TO BE REMOVED – NOT ALL SHOWN PER LEGEND. THOSE 'X' OUT ARE ALONG PERIMETER (TYP.).



NOTE:
1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION, BY CALLING 1-800-922-4455.

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	CHECKED BY
1	3-26-21	Revised Erosion Control limits.	S.A.L.	M.E.L.

DYMAR
800 Main Street South · Southbury, Ct. 06488 · (203) 267-1046 · Fax (203) 267-1547
ENGINEERING · PLANNING · SURVEYING · DEVELOPMENT SERVICES

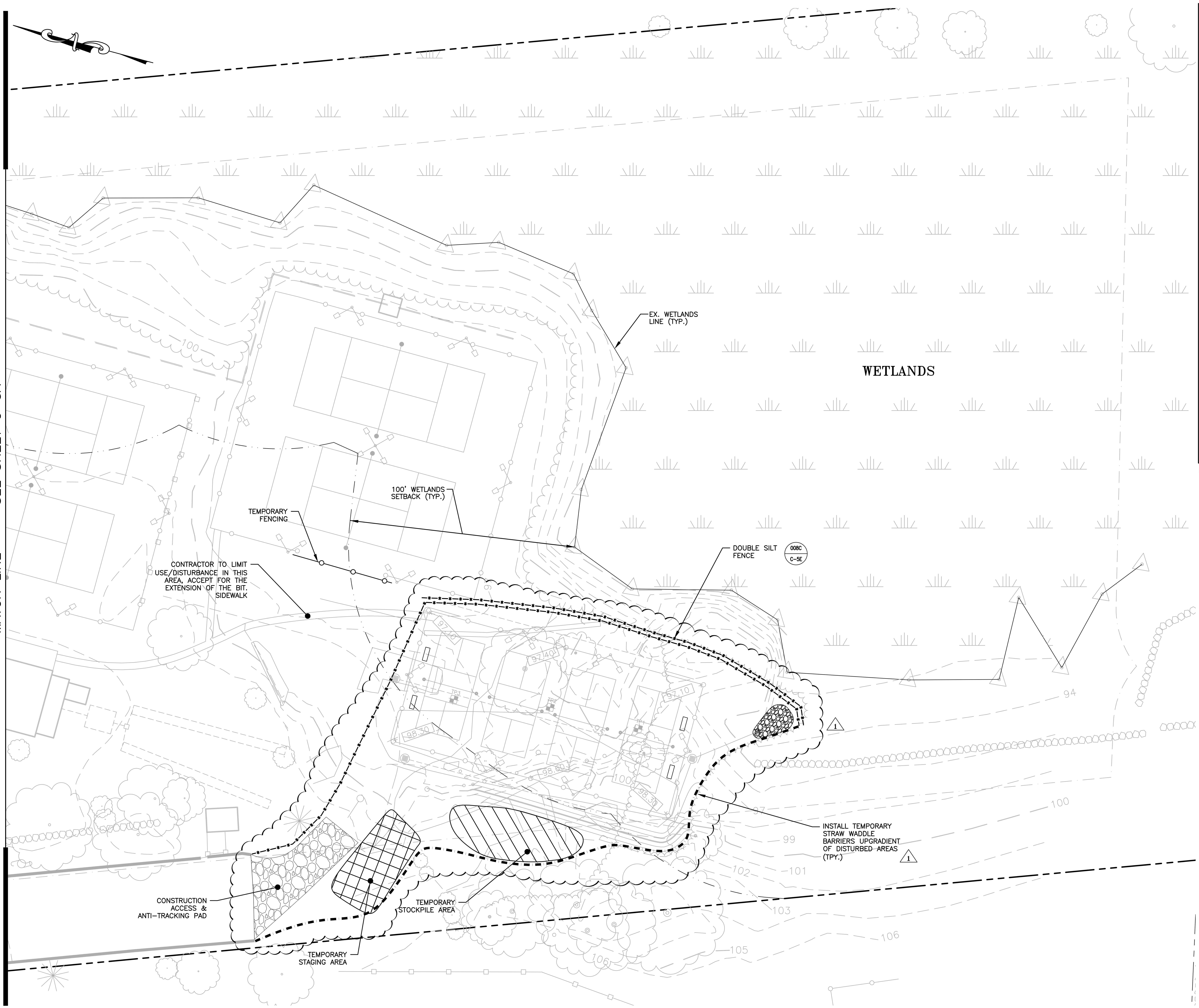
DRAWINGS TO BE USED FOR LAND USE SUBMISSIONS ONLY
NOT FOR CONSTRUCTION

CLIENT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Sediment & Erosion Control Plan

DATE:	02/15/21
SCALE:	1"=20'
DESIGNED BY:	M.E.L.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C-5A



EROSION & SEDIMENTATION CONTROL LEGEND

ABBREVIATIONS:
LS – LEVEL SPREADER
TSP – TEMPORARY SOIL PROTECTION
TRM – TURF REINFORCEMENT MAT
SSP – STONE SLOPE PROTECTION
WCFM – WOOD CELLULOSE FIBER MULCH W/TACKIFIER
ECB – EROSION CONTROL BLANKET

KEY	
SF	SILT FENCE
CE	ANTI-TRACKING PAD
HB	HAY BALES
SW*	STRAW WADDLE BARRIER
IP*	DRAIN INLET SILTSACK TRAP
WB*	WATER BREAK
TS*	TEMPORARY SWALE
PS*	PERMANENT SWALE
SCD*	STONE CHECK DAM
HCD*	HAY BALE CHECK DAM
SS*	SLOPE SOIL STABILIZATION
SA*	STOCKPILE AREA
MTA*	MATERIAL STAGING AREA
OP	RIPRAP OUTLET SPLASH PAD
LS	PLUNGE POOL
SB	SEDIMENTATION/ STILLING BASIN
TST	SEDIMENTATION TRAP
TP	TREE PROTECTION

NOTE:
1. KEY BASED ON 2002 CT EROSION & SEDIMENTATION CONTROL GUIDELINES. IF MARKED BY *, NOT FOUND IN BOOK.
2. TREES WITHIN CLEAR LIMIT TO BE REMOVED – NOT ALL SHOWN PER LEGEND. THOSE 'X' OUT ARE ALONG PERIMETER (TYP.).

NOTE:
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REVISION

NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C-5B

EROSION & SEDIMENT CONTROL PLAN

A. PROJECT NARRATIVE:

1. The project is an expansion of a recreational tennis club situated upon 10± acres. The expansion has been designed in accordance with the Town's inland wetlands and watercourses regulations and zoning regulations as well as other documents published by the CT Department of Energy and Environmental Protection and the CT Department of Transportation.
2. There is no Open Space proposed with this project.
3. The infrastructure proposed includes the construction of two illuminated paddle board courts with the appropriate walkway and stairs for access, an illuminated pickleball, upgrade the illumination of the existing tennis courts, extend the sidewalk to the proposed pickleball court. The project also calls for the demolition of the practice court and a removal and relocation of the playground area.
4. All work to be done in one phase.
5. Regulated wetland activities – Refer to Sheet C–3.
6. Total Estimated Additional Site Disturbance is 0.35± ac.
7. Sequence of Construction Phasing Schedule – Refer to Section 'D' of this sheet for General Terms and practices for Erosion and Sediment Control measures.
8. Reference is made to Sheets C–5D for the use of temporary Erosion and Sediment Control devices, their design criteria, and maintenance thereof.

B. PRINCIPLES:

The following general principles shall be maintained as an effective means of minimizing erosion and sedimentation during the development process.

1. Stripping away of vegetation, regrading or other development shall be done in such a way as to minimize erosion.
2. Grading and development plans shall preserve salient natural features, keep cut and fill operations to a minimum, and insure conformity with topography so as to create the least erosion potential and adequately handle the volume and velocity of surface water runoff.
3. Whenever feasible, natural vegetation shall be retained, protected and supplemented wherever indicated on the site development plan and/or the landscaping plan. Trees which are shown to remain shall be protected throughout the construction period and any damages caused by the CONTRACTOR shall be repaired immediately. Whenever trees are cut beyond the contract limit lines or if a tree cannot be saved due to the CONTRACTOR'S actions, due compensation shall be granted to the OWNER equal to or exceeding the value of the loss. No work shall proceed after damages have occurred until the OWNER has agreed to a remediation plan.
4. The disturbed area and the duration of exposure shall be kept to a practical minimum.
5. Disturbed soils shall be stabilized as quickly as possible.
6. Temporary vegetation and/or mulching shall be used to protect exposed critical areas and stockpiles during development when expected to be exposed in excess of fifteen (15) days.
7. The permanent (final) vegetation and mechanical erosion control measures shall be installed as soon as practical during construction.
8. Sediment in the runoff water shall be trapped until the disturbed areas are stabilized by the use of debris basins, sediment basins, silt traps or similar measures.
9. All lots, tracts or developments shall be finally graded to provide proper drainage away from buildings and dispose of it without ponding: and all land within a development shall be graded to drain and dispose of surface water without ponding.
10. Where drainage swales are used to divert surface waters away from buildings, they shall be sodded or planted.
11. Concentration of surface runoff shall be only permitted by piping and through drainage swales reinforced with structural protective measures or natural watercourses.
12. Excavation and Fills:
    a. Slopes created by cuts or fills shall not be steeper than 2:1 unless existing soil conditions are inpected stabilized and shall be reestablished by temporary or permanent measures, as required during the development process.
    b. Adequate provisions shall be made to prevent surface water from damaging the cut face of excavations or the sloping surfaces of fills.
    c. Cut and fills shall not endanger adjoining property.
    d. All fills shall be compacted to provide stability of material and to prevent undesirable settlement. The fill shall be spread in a series of layers each not exceeding loose lifts of twelve (12) inches in thickness and shall be compacted by a sheeps foot roller or other approved method after each layer is spread.
    e. Fills shall not encroach on natural watercourses, constructed channels or regulated flood plain areas, unless permitted by license or permit from authority having jurisdiction.
    f. Fills placed adjacent to natural watercourses, constructed channels or flood plains shall have suitable protection against erosion during periods of flooding.
    g. Grading shall not be done in such a way as to divert water onto the property of another landowner without their expressed written consent.
    h. During grading operations, necessary measures for dust control shall be exercised. Use of chemicals shall be prohibited.
13. Sedimentation and erosion control shall be implemented in accordance with the guidelines for Soil Erosion and Sediment Control, prepared by the State of Connecticut thru the counsel on Soil and Water Conservation, latest revised edition. In addition to defining specific measures and locations for sediment and erosion controls to be used, the plan shall be considered flexible to allow additional controls to be implemented as site conditions change and localized drainage patterns are altered. It is the responsibility of the CONTRACTOR to contact the OWNER for remedial action when site conditions warrant additional protective measures.

C. RESPONSIBILITY FOR THE PLAN:

1. The responsibility for implementing and maintaining the Sedimentation and Erosion Control Plan rests with the OWNER OF RECORD where any development of the parcel gives cause to erosion and sedimentation. It is also to be said that the OWNER OF RECORD shall be held responsible for informing all concerned regarding responsibility of the plan and seeing that the plan becomes a part of the deed in the event the title of the property is transferred. The costs of all drainage erosion and sedimentation control measures will therefore rest with the OWNER OF RECORD.
2. Whenever sedimentation is caused by stripping vegetation and/or grading, it shall be the responsibility of the person, corporation or other entity having responsibility to remove sedimentation from all lower properties, drainage systems and watercourses and to repair any damage at their expense as quickly as possible.
3. Maintenance of all drainage facilities and watercourses within any subdivision or land development shall be the responsibility of the OWNER OF RECORD until they are accepted by the Municipality. All control measures will be maintained in effective condition throughout the construction period. Surface inlets shall be kept open and free of sediment and debris. The system shall be checked after every major storm and sediment shall be disposed of at an approved location consistent with the plan.
4. Maintenance of drainage facilities or watercourses originating and completely on private property shall be the responsibility of the OWNER to their point of open discharge at the property line or at a communal watercourse within the property.
5. No person, corporation or other entity shall block, impede the flow of, alter, construct any structure or deposit any material or thing or commit any act which affects normal or flood flow in any communal stream or watercourse without having obtained prior approval from the Canton Inland Wetland and Watercourse Agency.
6. An adequate right–of–way and/or easement shall be provided for all drainage facilities and watercourses which are proposed either for acceptance by the Municipality or provided by other property owners for the convenience of the OWNER.

D. SEQUENCE OF CONSTRUCTION (GENERAL TERMS)

The tentative sequence of construction events are as follows and activities noted by a "(Capital Letter)" may occur concurrently.

1. Conduct a preconstruction meeting with the OWNER, Contractor, Consultant Team, and Local and State agencies having jurisdiction over the project.
2. Field stakeout the limits of all activities and install, at a minimum, a snow fence along construction limit lines along environmentally sensitive and tree protection areas. Silt fencing may be substituted where it coincides with this line, but only as approved by the OWNER. (A)
3. Install silt fence along all sides contiguous to wetlands, watercourses and property owned by others affected by the work. Refer to Sedimentation and Erosion Control Plans for locations. (A)
4. After each rain storm monitor the sedimentation and erosion control structures, which may include riprap channels, sediment basins, plunge pools, etc.. Routinely remove sediment during construction to an approved site location when controls exceed one half (1/2) their capacity. (A)
5. Clear vegetation within project limits, except trees designated to remain or in question, as shown on the plans. The decision of how questionable trees are to be treated shall rest with the OWNER and coordinated through the local agency having jurisdiction as construction progresses. All trees and shrubs less than 6" in diameter, and not to remain, shall be chipped and stored on site for mulch. (A)
6. Remove stumps and dispose of at a bulky waste site approved by the ENGINEER and local official having jurisdiction. Disposal of stumps within burial pits on–site shall be prohibited. (B)
7. Install a six inch (6") deep crushed stone anti–tracking pad as detailed and dimensioned on the drawings. At the end of each working day or as required, accumulated soil is to be swept from existing pavement. (B)
8. Strip topsoil and subsoil materials as required and stockpile them at locations as shown on the Sedimentation and Erosion Control Plans. Stockpiles may be relocated to meet job conditions but shall not adversely impact any down gradient wetlands. Locations are subject to the ENGINEER'S approval. Provide temporary erosion controls on the downside slopes of all stockpiles. (B)
9. Install drainage, retention basins, sediment traps, riprap swales, and other structural controls as necessary to capture and minimize sediment migration. (C)
10. Conduct all rough cuts and fills for courts, utilities, and landscaped areas, making sure that all fill material is free of brush, rubbish, large boulders, logs, stumps and other objectionable materials. (C)
11. If blasting is required for any cuts, all proposed work is to be coordinated with all local officials having jurisdiction. The contractor is required to secure all permits for blasting operations in accordance with local and state regulations and conduct a pre–blast survey of surrounding properties. Rock spoil is to be disposed of in an appropriate manner as the site plan may show or as locally permitted (C).
12. Provide temporary seeding measures on all exposed soil which were damaged due to construction activities, are outside of construction traffic zones, and are not to be permanently restored or for a period in excess of thirty (30) days. Seeding and seedbed preparation are as specified herein or as indicated on the landscape plan. (C)
13. Excavate and complete remaining drainage. Install silt sack sediment barriers at all catch basins locations. (D)
14. Complete final subgrading for all grassed and landscaped areas. Prepare subgrades for placing a minimum of six inches of topsoil. Place topsoil only when permanent seeding and landscaping can follow within a reasonable time frame (E).
15. Exercise final landscaping plan and permanent seeding to provide long–term stabilization (E).
16. Clean and remove all silt from within drainage structures and dispose of materials at an approved site (F).
17. Remove temporary measures once permanent measures have matured as approved by the Municipality's enforcement officer (F).
18. Conduct final inspection with Town to identify deficiencies and establish punch list; complete same to the satisfaction of the Town.

E. SEEDING AND PLANTING REQUIREMENTS:

1. Seedbed Preparation: Fine grade and rake surface to remove stones larger than 2" in diameter. Install needed erosion control devices such as surface water diversions. Grade stabilization structures, sediment basins or drainage channels to maintain grassed areas. Apply limestone at a rate of 90 lbs / 1000 sft unless otherwise required according to soil test results. Apply 10–10–10 fertilizer at a rate of 7.5 lbs / 1000 sft. Work lime and fertilizer into soil uniformly before seeding.
2. Seed Application: Apply grass mixtures at rates specified by hand, cyclone seeder or hydroseeder. Increase seed mixture by 10% if hydroseeder is used. Lightly drag or roll the seeded surface to cover seed. Seeding for selected fine grasses should be done between April 1 and June 1 or between August 15 and October 15. If seeding cannot be done during these times, repeat mulching procedure below until seeding can take place or seed with a quick germinating seed mixture to stabilize slopes. A quick germinating seed mixture (Domestic Rye) can be applied between June 15 and August 15 as approved by the LANDSCAPE ARCHITECT or ENGINEER.
3. Mulching: Immediately following seeding, mulch the seeded surface with straw, hay or wood fiber at a rate of 1.5 to 2 tons / Ac. except as otherwise specified elsewhere. Mulches should be free of weeds and coarse matter. Temporary mulches shall be anchored down on slopes in excess of 3% and within channels of concentrated flows.
4. Grass Seed Mixtures:

Temporary Covers		Permanent Covers	
Perennial Rye Grass	20 lbs / Ac.	Creeping Red Fescue	20 lbs / Ac.
Annual Rye Grass	20 lbs / Ac.	Canada Bluegrass	20 lbs / Ac.

Substitutions equal to or better than that specified may be permitted based on the local availability of seed mixtures and seasonal conditions when approved by the LANDSCAPE ARCHITECT or ENGINEER.

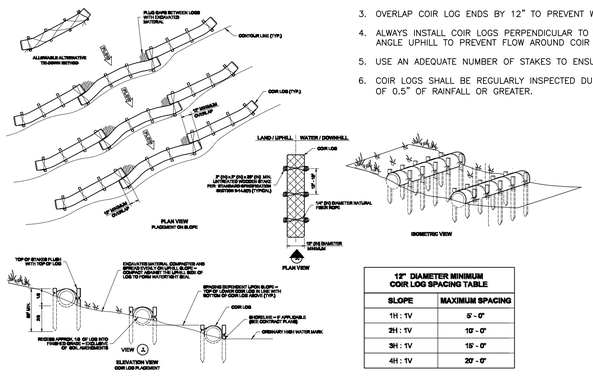
5. Planting Notes:
    a. All materials shall be inspected, approved and site located by the LANDSCAPE ARCHITECT or ENVIRONMENTAL SUPERVISOR. All plant materials are to be inspected for defects or damage before planting. Substandard materials shall be returned to and replaced by the CONTRACTOR. Acceptable plants are to be planted per the specifications of the landscaping plan. It is the responsibility of the GENERAL CONTRACTOR to provide for the safekeeping and maintenance of plants and vegetation cover for the duration of site construction activity. Once planted, all machinery shall avoid planted areas which should be demarcated clearly by flagged field stakes. Provisions for regular watering and inspections shall be made by the NURSERY CONTRACTOR for the duration of the plant's first year in the ground and all plants which do not survive shall be replaced at the CONTRACTOR'S expense.
    b. All plant material placement is subject to field adjustment in response to other site conditions. These adjustments shall be at the discretion of the ARCHITECT, LANDSCAPE ARCHITECT, SITE SUPERVISOR or ENVIRONMENTALIST.
    c. All plant materials are subject to replacement by suitable alternatives per agreement between OWNER, LANDSCAPE ARCHITECT or ENGINEER, NURSERY CONTRACTOR and appropriate agencies.

F. REGULATORY COMPLIANCE

1. The OWNER of record or its agent shall be responsible for registering the project with the CTDEP for "Discharge of Stormwater and Dewatering Wastewaters" per Section 22a–430b of the Connecticut General Statutes whenever five acres or more of accumulated disturbance will occur with the parcel's boundaries.
2. The OWNER of record shall be responsible for retaining a licensed Professional Engineer or Certified Soil Erosion & Sediment Control Specialist to inspect the site periodically in accordance with CTDEP guidelines. Monitoring reports shall be prepared and filed with the OWNER, contractor and Inland–Wetland office of the Town.

The Applicant shall be responsible for obtaining all local permits and approvals required from the Planning Commission, including Wetlands and Watercourses' Commission and any necessary agencies and departments to satisfy the regulations of the Town.

1



NOTES:
1. COIR LOGS SHALL BE INSTALLED STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UPHILL.
2. EXCAVATED MATERIAL SHALL BE SPREAD EVENLY ALONG THE UPHILL SLOPE AND COMPACTED BY HAND TAMPING OR OTHER METHODS APPROVED BY THE ENGINEER,
3. OVERLAP COIR LOG ENDS BY 12" TO PREVENT WATER FROM MOVING BETWEEN LOGS.
4. ALWAYS INSTALL COIR LOGS PERPENDICULAR TO SLOPE ALONG CONTOUR LINES. ENDS SHALL ANGLE UPHILL TO PREVENT FLOW AROUND COIR LOGS.
5. USE AN ADEQUATE NUMBER OF STAKES TO ENSURE LOGS ARE SECURE.
6. COIR LOGS SHALL BE REGULARLY INSPECTED DURING CONSTRUCTION AND AFTER ANY STORM OF 0.5" OF RAINFALL OR GREATER.

12" DIAMETER MINIMUM COIR LOG SPACING TABLE

SLOPE	MAXIMUM SPACING
1H : 1V	5' - 0"
2H : 1V	10' - 0"
3H : 1V	15' - 0"
4H : 1V	20' - 0"

SEC 100 TEMPORARY STRAW WADDLE BARRIER DETAIL
N.T.S.

NOTE:
1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION, BY CALLING 1–800–922–4455.

REVISION				
NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	3/9/23	Added Coir Log Detail.	S.A.L.	M.E.L.

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Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Sediment & Erosion Control Narrative

DATE:	02/15/21
SCALE:	N.T.S.
DESIGNED BY:	M.E.L.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C–5C

1 2

SEDIMENT & EROSION CONTROL CONSTRUCTION STANDARDS:

A. PREAMBLE

The management goals of controlling anticipated impacts to surficial bedrock and soils during and immediately after construction are to reduce the transport and deposition of exposed surficial materials to wetlands and watercourses. A comprehensive erosion control plan has been prepared for the project utilizing both temporary and permanent devices to minimize impacts. The plan includes limitations of the duration of soil exposure, criteria and specifications for placement and installation of erosion control devices, a maintenance schedule, and enforcement suggestions to mitigate concerns over its implementation. The primary aim of the erosion and sedimentation control measures will be to reduce soil erosion from areas stripped of vegetation during construction and to prevent siltation of the wetland areas. The erosion and sedimentation control plans are based on the Connecticut Department of Environmental Guidelines and that of the General Permit for Stormwater Protection Discharges.

B. OBJECTIVES AND PRINCIPLES

The objectives of the Soil Erosion and Sediment Control Plan are to manage both runoff and the earthwork operations by utilizing a collective approach to managing their impacts before critical areas are affected. These objectives are as follows:

1. Control erosion at its source with temporary control structures, minimize the runoff from areas of disturbance, and deconcentrate and distribute stormwater runoff through natural vegetation before discharge to critical zones such as streams or wetlands.

2. Keep land disturbances to a minimum – The road alignments and building sites have been located with consideration given to the natural topography and the soil type. This design approach minimizes the required earthwork, thereby lowering the erosion potential.

3. Time grading and construction to minimize soil exposure – The development will be phased to minimize the extent of cleared soil at any particular time. Within the scheduled phasing, only areas under active construction will be exposed. Residential lots, for example, will remain undisturbed until actual construction of the house is to begin.

4. Retain existing vegetation wherever feasible – Silt fencing will be used to physically define the limit of work. Substantial buffers of existing vegetation will be provided along the proposed public ways.

5. Stabilize disturbed areas as soon as possible – In areas where work will not occur for periods longer than two weeks, soil stabilization by hydroseeding or mulching will be done within 48 hours after the land has been cleared.

6. Minimize the length and steepness of slopes – The project has engineered the steepness and length of slopes to minimize runoff velocities and to control concentrated flow. Where concentrated (swale) flow from exposed surfaces is expected to be greater than three feet per second, hay bale or stone check dams will be installed in the swale. The check dams will be placed so that unchecked flow lengths will not be greater than 100 feet.

7. Maintain low runoff velocities – To protect disturbed areas from stormwater runoff, hay bale and/or soil diversion berms will be installed wherever runoff is likely to traverse newly exposed soil. Immediately following the clearing and stripping of topsoil, rough grading for the post-construction swales will take place. The swales will direct runoff so that it can be checked or impounded. Stormwater outlets will be designed to reduce velocities and dissipate energy.

8. Trap sediment on-site and prior to reaching critical areas such as wetlands – Silt fences, hay bale check dams, filter strips, sediment traps, and catch basin filters will be used to either impound sediment-laden runoff or to filter the runoff as it flows through an area. Reference is made to the sedimentation and erosion control drawings, sheets C-6A through C-6F for location of silt fences, hay bales, etc. Silt fencing, augmented by hay bale berms installed on the upgradient side of the silt fencing, will be used wherever land disturbance occurs within 100 feet of wetlands. Stabilized construction entrances will be installed at all construction entrances to prevent construction vehicles from tracking sediment onto off-site roadways. All temporary erosion control devices will be installed prior to the commencement of construction.

9. Establish a thorough maintenance and repair program – Erosion control measures will be inspected weekly during the spring months, monthly during the dry summer months and/or following rainfall storms of greater than 1/2 inch, and repaired as needed to ensure that they function properly.

10. Assign responsibility for the maintenance program – The responsibility for the maintenance program will be assigned to the contractor who shall designate one of its supervisory personnel to be the liaison to the Owner's representative. The Owner will retain the services of a licensed professional who shall inspect and monitor the contractor's methods and have the authority to require modifications to the E&S controls. The Town will be copied on all inspection reports prepared on behalf of the project.

C. TEMPORARY E&S CONTROL DEVICES, DESIGN CRITERIA, AND MAINTENANCE

The devices provided below are typical controls which may or may not be required for the site. However, when site conditions arise which the Engineer, Site Monitor or Town warrant are necessary, the Contractor is to follow the guidelines specified as follows.

1. Silt Fences – Silt fences consist of wire-bound woodroll snow fence covered with a filter fabric. The fence will be four feet high and made of 3/8-inch by 1 1/2-inch wide pickets, approximately two inches apart, bound together by 13-gauge galvanized steel wire. Fences will be secured in place by galvanized steel posts set a maximum of five feet on-center. The filter fabric will be stapled to the upgradient face of each fence. Twine will be used to secure the fence on the uphill side to prevent overturning. The purpose of silt fences is to intercept and detain sediment contained in overland runoff from disturbed areas of limited extent. In addition, the silt fencing will physically delineate the limit of work. (Envirofence by Mirafi, Inc., is an acceptable alternative to the above described system).

   Installation and Maintenance:

   a. Silt fences will be installed where the disturbed land is located 200 feet or less from critical areas (streams and wetlands).

   b. Silt fences will be installed on downslope of work areas as close to the disturbed areas as possible.

   c. At the base of drainageways or where the disturbance will remove natural vegetation within 100 feet of critical areas, the silt fencing will be augmented by a single row of staked haybales.

   d. Filter fabric will be Trevira 1127.

   e. Sediment will be removed from behind siltation fences when sediment has accumulated to 25% of original height of the fence.

2. Hay Bale Diversion Berm – Hay bale diversion berms will be utilized to intercept sediment and reduce runoff velocities around stockpiled earth materials and divert runoff away from disturbed areas of limited extent. This device will be used both upgradient/downgradient of grading operations.

   Installation and Maintenance:

   a. The contributory drainage area will be one acre or less; the area may be larger if inaccessible to construction equipment and to preserve existing trees and vegetation.

   b. The bales will be tightly bound, pin anchored, and imbedded four inches below grade, with ends tightly abutting each other.

   c. The hay bale berms shall be inspected periodically and deteriorated bales replaced until such time as construction is completed and exposed slopes have been stabilized.

3. Hydroseeding – Hydroseeding will be the primary means of stabilizing areas of disturbed earth. Hydroseeding will not be permitted, however, within cut areas or steep slopes. The seed mix, fertilizer, water, and mulch will be applied as a mixture utilizing power equipment. Fertilizer will not be included in the mix for disturbance within the regulated area adjacent to wetlands. The mix will be applied in two equal applications. Dyes will be used to determine the extent of coverage upon application. After grass has appeared, those areas which fail to show a uniform stand of grass will be reseeded. This process will be repeated until all areas are covered with satisfactory growth. Hydroseeding will be completed within 48 hours following completion of rough grading. Seed mixtures appropriate to the soils, slopes and uses will be selected in accordance with the Westchester County Soil and Water Conservation District Guidelines.

4. Erosion Control Blankets – Blankets will be utilized for slopes > 4:1 to stabilize areas of disturbed earth. The type of blanket shall be as manufactured by North American Green or approved equal in accordance with the following schedule:

   a. For slopes from 4:1 to 3:1 and low flow swales use S75 Straw Blankets.

   b. For slopes from 3:1 to 2:1 and moderate flow swales use S150 Straw Blankets.

   c. For slopes from 2:1 to 1:1 and discharge grass channels use SC150 Coconut Fiber and Straw Blankets.

   d. For slopes steeper than 1:1 and engineered channels use use C125 Coconut Fiber Blankets.

   Install all blankets in accoradance with all the manufactures recommendations.

5. Dust Control – Water will be applied by sprinkler or water truck as necessary during grading operations to minimize sediment transport and maintain acceptable air quality conditions. Repetitive treatments will be done as needed until grades are paved.

6. Stabilized Construction Entrance – A ramp of crushed stone extending a minimum distance of 100 feet will be installed at each point of ingress and egress to the site. The purpose of the device is to minimize the potential of tracking mud from the site onto public rights-of-way.

   Installation and Maintenance:

   a. Minimum length will be 100 feet

   b. Stone size will be 1.5 to 2.5 inches

   c. Stone will be placed upon the full width of the entrance roads

   d. Thickness of stone will be six inches or greater

   e. Additions of stone will be done periodically to maintain the entrance

   f. All sediment spilled, dropped, washed, or tracked onto public rights-of-way will be removed immediately.

7. Roadway Interceptor Swales – This temporary device consists of a crushed stone-filled swale constructed across proposed roadways. The purpose of this device is to direct runoff away from the road surface and minimize sediment from entering the drainage system. This shortens the length of disturbed slope by intercepting runoff and diverting it away from the roadway catch basins.

   Installation:

   a. Swales will be placed across roads, which are to be constructed in fill:

      i. every 200 feet on slopes of five to ten percent, and

      ii. every 300 feet on slopes less than five percent.

   b. Contributory drainage area less than five acres.

   c. Swales drain to sediment traps or sedimentation basins.

8. Hay Bale Check Dams – Hay bale check dams consist of tightly bound, steel pin anchored hay bales embedded four inches below grade in drainage swales adjacent to roadways or against diversion berms at the toe of an exposed slope. The purpose of a hay bale check dam is to reduce runoff velocity and promote deposition and filtering of sediment from runoff.

   Installation and Maintenance:

   a. Check dams will be placed in drainage swales or against diversion berms at the toe of an exposed slope:

      i. every 100 feet on slopes greater than ten percent,

      ii. every 200 feet on slopes of five to ten percent, and

      iii. every 300 feet on slopes less than five percent.

   b. Sediment shall be removed from hay bale check dams when sediment has accumulated to 50 percent of the original height.

9. Sediment Traps – At appropriate intervals, runoff collected in roadway interceptor swales or other swales will be directed, via a small dike or ditch, to a sediment trap. The trap consists of a small excavation and/or embankment. The purpose of the trap is to collect runoff, promote settling of sediment and deconcentrate and distribute clean runoff overland through vegetation before entering watercourses and wetlands.

   Installation and Maintenance:

   a. Contributory drainage areas less than or equal to five acres.

   b. Utilized as part of swales prior to discharge to natural slopes.

   c. Traps will be placed such that runoff discharging from the trap will flow at least 30 feet overland through natural vegetation before entering stream channels or wetlands.

   d. Traps will be designed for a minimum of 1.9 cubic feet of storage/acre of drainage area received by the trap.

   e. Maximum depth of trap will be five feet.

   f. Trap embankments shall not exceed five feet in height. Top width shall be four feet and sides shall have a 2:1 or flatter slope.

   g. Trap sides shall be compacted during construction.

   h. The trap outlet shall have crushed stone rip-rap hand placed over the trap.

   i. Traps will be cleaned when sediment has accumulated to 50 percent of design volume and removed sediment deposited so it will not erode.

10. Diversion/Interceptor – Both grassed swales and rock-lined swales will be utilized (depending on grade) to convey runoff during construction. Swales generally will be located adjacent to roads. At frequent intervals, runoff in the roadway swales will pass through hay bale check dams and sediment traps to reduce velocities and remove sediment. As often as possible, runoff in the swales will be directed overland and allowed to filter through natural vegetation.

    Installation:

    a. Grassed swales on slopes less than five percent.

    b. Rock-lined swales on slopes greater than five percent.

    c. Swales will be temporary.

11. Catch Basin Filters – Temporary catch basin filters will be utilized to prevent the deposition of sediment into the storm sewer system prior to the stabilization of exposed areas with vegetation and/or pavement. These filters will consist of tightly bound, pin-anchored hay bales embedded four inches below grade, surrounding each catch basin inlet.

    Installation and Maintenance:

    a. Placed around each catch basin inlet prior to paving or stabilization with vegetation.

    b. Sediment shall be removed from the filters when it has accumulated to 50 percent of the filter's original height.

12. Diversion Berm (Soil) – This is a temporary raised berm of compacted soil, placed across a disturbed slope, that intercepts runoff from disturbed areas and directs it to an appropriate outlet. This device will be used mostly on steep slopes above deep excavations.

    Installation:

    a. Diversion berms may be placed on cut and fill slopes exceeding ten feet in height.

    b. Contributory drainage area should not be greater than one acre.

    c. Runoff will be diverted overland by the berms to sediment traps, sedimentation basins, swales, or check dams.

    d. On slopes over five percent, additional stabilization is required in the form of stone rip-rap eight inches vertically along the upslope side of the berm and seven feet upslope from the upslope toe of the berm.

    e. Top width of berm will be two feet. Side slopes will be 2:1 or flatter.

    f. All berms shall be machine compacted.

13. Rock Check Dams – Temporary rock check dams are small dikes (approximately three feet high) constructed at frequent intervals in drainage ways where silt fences and hay bale check dams are impractical due to high flow velocities. The primary function of these devices is to promote deposition of sediment and provide some filtering of runoff water. Check dams will be constructed with a 1.5 to 2.0 inch crushed stone core and a layer of peastone on the upstream face.

    Installation:

    a. Check dams will be placed in drainage ways:

    b. downstream of stream crossing where high flow velocities make other sediment filtering devices impractical.

    c. Sediment shall be removed from rock check dams when sediment has accumulated to 50 percent of original height.

    d. Peat or other wetlands material will be excavated and stockpiled prior to rock check dam installation and replaced once construction is complete.

14. Sediment Basins – This is a temporary embakment/impoundment area, excavated pit or used as part of a permanent detention device with a controlled outlet(s), that is a combination of wet and dry storage areas are created. The purpose is to intercept and retain sediment during construction, reduce or abate undesirable deposition of sediment to the waters of the state and downstream properties.

    Installation and Maintenance:

    a. Contributory drainage area less than 100 acres.

    b. Effective height of the basin is 15 feet or less.

    c. The product of the storage times the effective height should be less than 3,000.

    d. A minimum residence storage time of 10 hours for a 10 year frequency, 24 hour, Type III storm.

    e. Flood Routing by TR-55.

    f. Sediment storage volume shall be calculated by the Universal Soil Loss equation with an 80% trap efficiency for a predicted one year load.

    g. Minimum capactiy volumes shall be 134 cubic yards of water storage per acre drained of distrubed area contributing to the basin.

    h. Sediment basins shall be cleaned when sediment accumulates to 50% of the net storage capacity. Dewater basin through pumping means prior to entering sediment. Material shall be removed and left to dry to an approved location.

15. Energy Dissipators – Outlet Protection Level Spreaders – This is a permanent device used to reduce depth and velocity of concentrated runoff and release it uniformly into a stable area. Except as otherwise noted, they shall be constructed of rip-rap stone.

    Installation and Maintainence:

    a. Design flows for 10 year storms or less than 20 cfs.

    b. Length, width, and detail is as shown on the site plans and detail sheets.

    c. To be constructed on undisturbed earth.

    d. Inspect annually and repair immediately where erosion occurs.

16. Hydrograss And Floc Log Specifications:

    a. Pre-Construction:

       Send a soil sample directly to Applied Polymer Systems, Inc., 519 Industrial Drive, Woodstock, GA 30189, Attn: Steve Iwinski (678-494-5998) to determine the log, liquid, and crystal types most appropriate for the site soil type.

    b. Construction Phase Applications:

       (1) Swales and Sedimentation Basins

          i. Two Floc Logs shall be placed at each check dam throughout the swale system.

          ii. Logs should be applied via 3 FT wood stakes and placed in running water areas of the swale.

          iii. 25 LBS/150 LF of Clarifying Crystal shall be applied to swales in a one time only application to jump start the logs.

       (2) Disturbed Soil Areas

          i. Apply wood fiber slurry to all disturbed areas. Slurry shall consist of 1,500 LBS of real wood fiber per acre, 2.5 gallons of Silt Stop Liquid Emulsion per acre, and 100 LBS of Guar Gum per acre.

          ii. An alternative to wood fiber slurry is to apply hay or straw mulch and cover with 25 LBS/AC of Silt Stop Clarifying Crystals with a mulch spreader.

    c. Check Dam Construction:

       (1) Dams should consist of 1-3 inch stone formed in a U or V shape towards the sedimentation basin.

       (2) Three layers of Coconut Jute Matting should be applied to the inside of the check dam and secured with staples.

    d. Maintenance:

       (1) Floc Logs shall be inspected after each major storm event.

       (2) Sediment buildup around Floc Logs shall be removed and the log reset when 50% of the log is no longer exposed.

       (3) Logs shall be replaced when the log is no longer performing as intended as specified by the manufacture's technical representative.

D. CONTROL PLAN IMPLEMENTATION

In addition to the devices and schedules outlined in this soil erosion and sediment control plan, the following procedures will be followed by the earthwork contractor:

1. The contractor shall inspect the effectiveness and condition of erosion control devices during storm events, after each rainfall of one-half inch magnitude or greater, prior to weekends, and prior to forecasted storm events.

2. The contractor shall repair or replace damaged erosion control devices immediately, and in no case, more than four hours after observing such deficiencies.

3. The contractor shall be prepared to implement interim drainage controls and erosion control measures as may be necessary during the course of construction.

4. The contractor shall make available on-site all equipment, materials and labor necessary to effect emergency erosion control and drainage improvement within four hours of any impending emergency situation.

5. The contractor shall make a final inspection, clean all cross culverts and sweep off roadways before the road is dedicated to the Town.

6. The contractor shall have on call at all times a responsible representative who, when authorized, will mobilize the necessary personnel, materials and equipment and otherwise provide the required action when notified of any impending emergency situation.

7. The contractor shall supply a telephone number to the Town Engineer and IW enforcement officer so that the contractor may be contacted during the evenings and on weekends, if necessary.?

E. PERMANENT CONTROL DEVICES

Following construction, erosion will be prevented by established vegetation cover and by permanent devices which include catch basins with sediment traps, grassed swales, natural filter traps, and outlet protection.

Through the strict implementation of this proposed soil erosion and sediment control plan, erosion of soils on the site will be minimized and contained to prevent sedimentation of site wetlands and adjacent and downstream properties and watercourses.

NOTE:

1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION, BY CALLING 1-800-922-4455.

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	CHECKED BY

DYMAR
800 Main Street South · Southbury, Ct. 06488 · (203) 267-1046 · Fax (203) 267-1547
ENGINEERING · PLANNING · SURVEYING · DEVELOPMENT SERVICES

DRAWINGS TO BE USED FOR LAND USE SUBMISSIONS ONLY
NOT FOR CONSTRUCTION

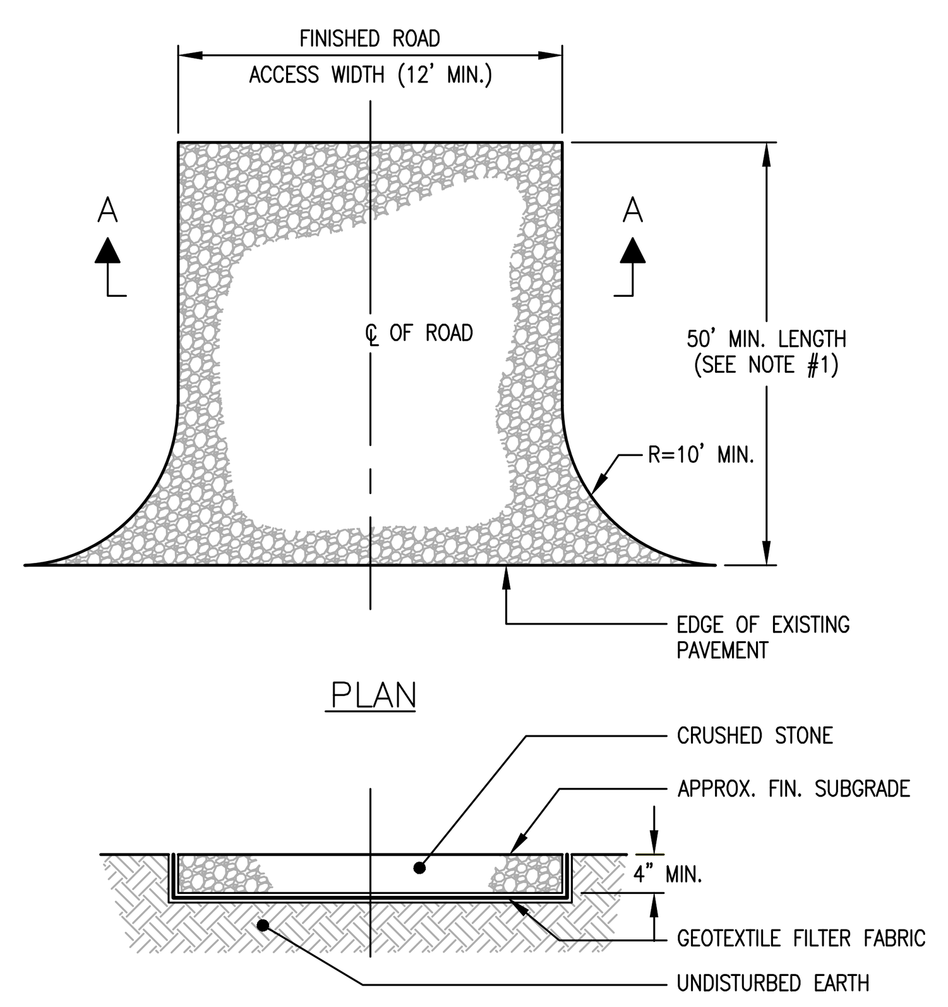
CLIENT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Sediment & Erosion Control Construction Standards

DATE:	02/15/21
SCALE:	N.T.S.
DESIGNED BY:	M.E.I.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.I.
JOB NO:	00335
DRAWING NO:	C-5D

NOTES:
1. LENGTH EQUAL TO 50' MINIMUM WHERE SOILS ARE SAND AND GRAVEL: PROVIDE 100' WHERE SOILS ARE PREDOMINANTLY CLAYS OR SILTS.
2. SPECIFICATIONS: CRUSHED STONE – CONN DOT NO. 3 OR ASTM C-33, GRADE NO. 3; GEOTEXTILE FILTER FABRIC – MIRAFI 500X OR APPROVED EQUAL.

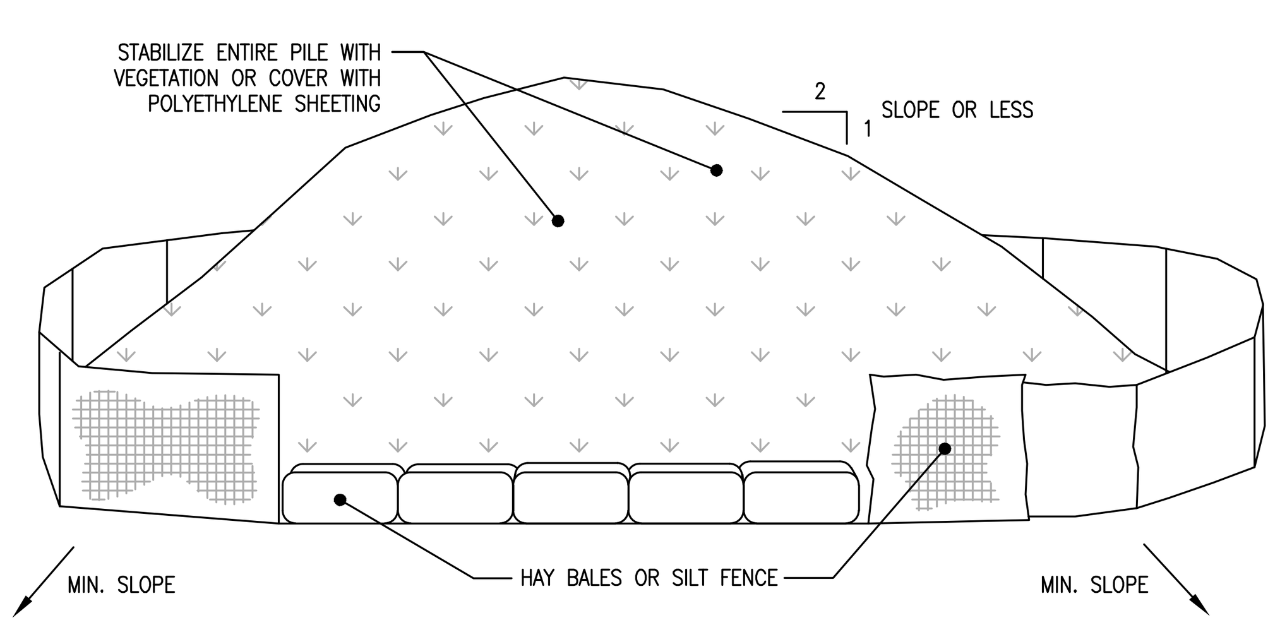


SEC 001A

ANTI-TRACKING PAD DETAIL

N.T.S. (CANTON)

NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED WITH POLYETHYLENE SHEETING.
4. TO BE USED WHERE TOPSOIL IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TOPSOIL IS APPLIED TO SUBSOILS THAT ARE DRAUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONEY, SALTY, HAVE LOW PERMEABILITY, OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL PLANTINGS.
5. TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NONVEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED PERIOD OF USE.
6. SEE EROSION AND SEDIMENT CONTROL PLAN FOR LOCATIONS.

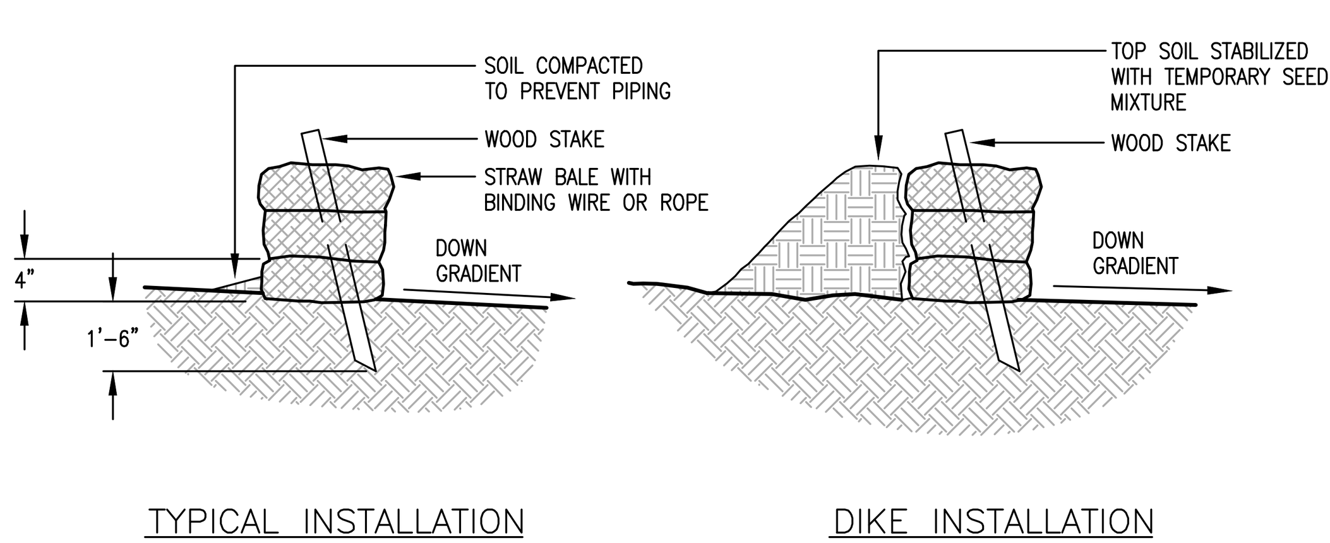


SEC 196

SOIL STOCKPILE DETAIL

N.T.S.

NOTES:
1. MAX. AREA DRAINAGE TO A BARRIER IS ONE ACRE OR LESS WITH SLOPE GRADIENT BEHIND A BARRIER LIMITED TO 2H:1V.
2. MAX. DISTANCE ON SLOPES BETWEEN BARRIERS IS 100' WITH ALLOWABLE FLOWS RECEIVED AT CHECK DAMS UP TO ONE C.F.S.
3. STRAW BALES SHALL BE INSPECTED PERIODICALLY AND SHALL BE REMOVED AND REPLACED AFTER 3 MONTHS EXCEPT AS OTHERWISE DIRECTED BY THE ENGINEER OR ENFORCEMENT OFFICIAL. BALES SHALL NOT BE REMOVED UNTIL UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.



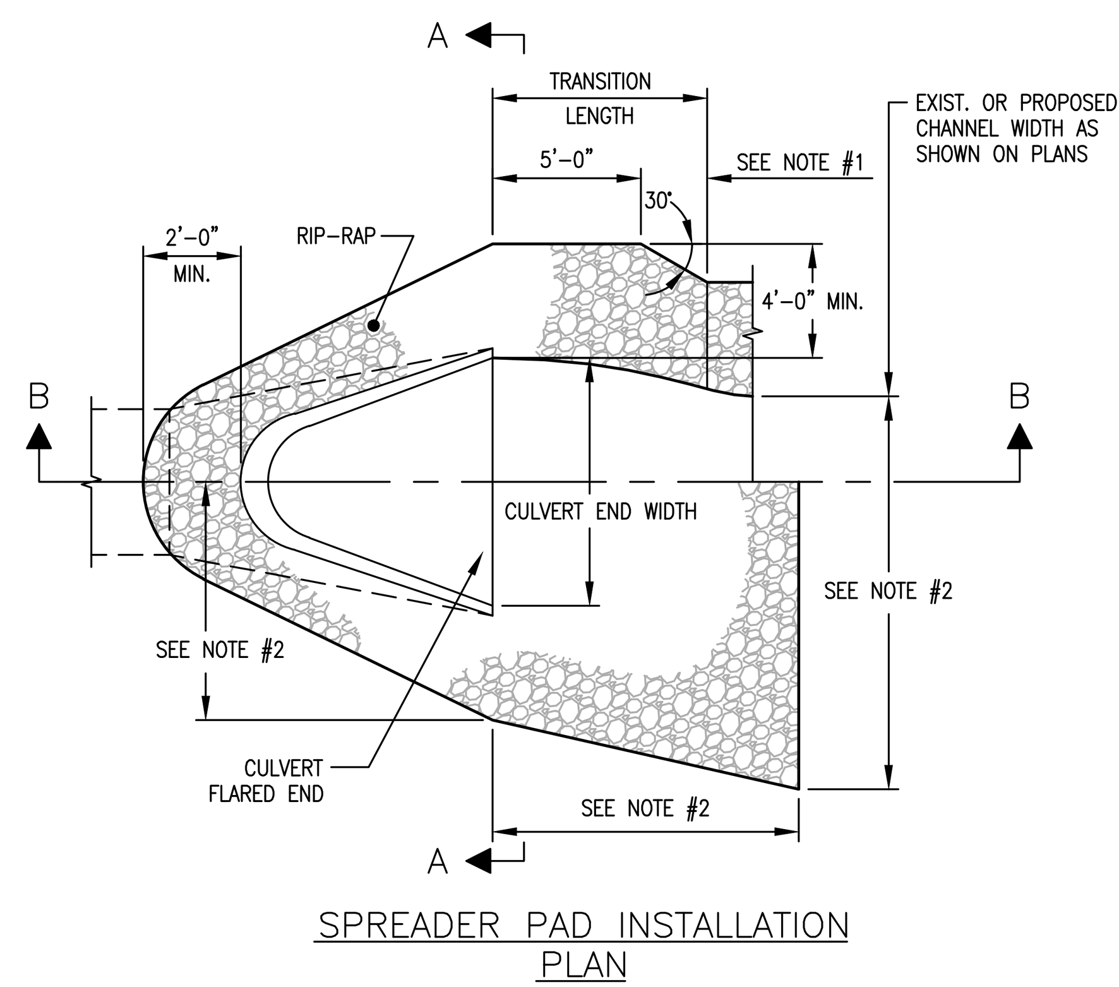
SEC 028

TYPICAL STRAW BALE INSTALLATION DETAIL

N.T.S.

NOTES:
1. TAPER TRANSITION FOR CHANNEL INSTALLATIONS AS REQUIRED TO MATCH CHANNEL WIDTH, OR AS INDICATED ON THE PLANS.
2. ALL TOTAL WIDTHS AND LENGTHS FOR SPREADER PAD INSTALLATIONS ARE AS INDICATED ON PLANS.

CHANNEL INSTALLATION



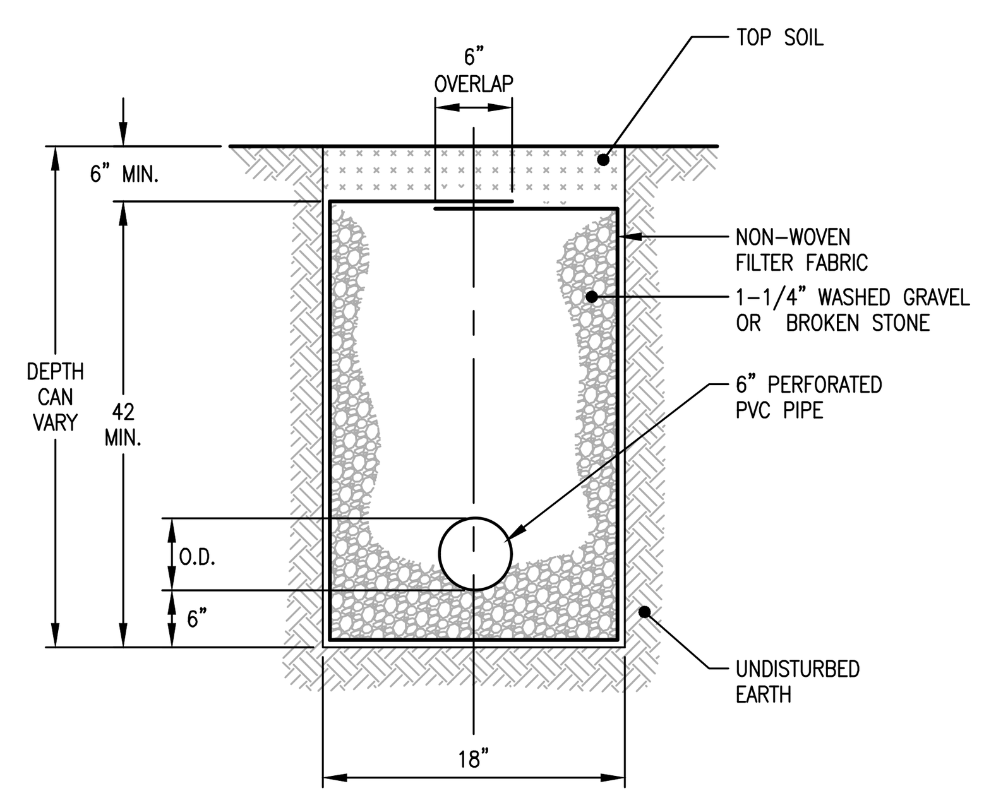
SPREADER PAD INSTALLATION
PLAN

STRM 004A

RIPRAP SPLASHPAD DETAIL

N.T.S.

1

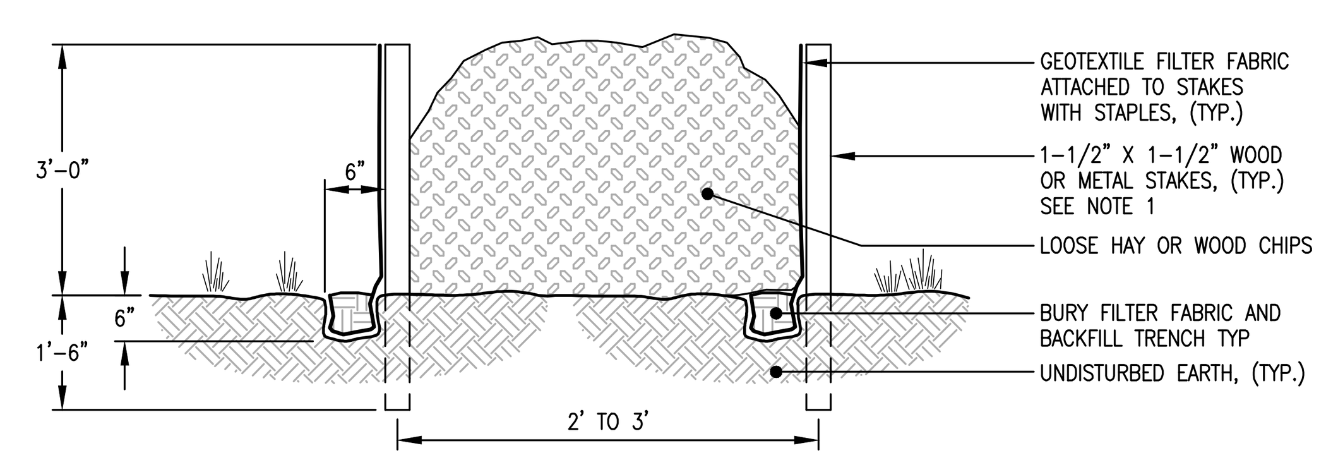


STRM 034

TYPICAL CURTAIN DRAIN DETAIL

N.T.S.

NOTES:
1. SILT FENCE STAKE SPACING MAY VARY AS PER MANUFACTURERS RECOMMENDATIONS. MAXIMUM SPACING IS 8'-0".
2. JOIN SILT FENCE SECTIONS BY OVERLAPPING END STAKES TO PREVENT SILT FROM BYPASSING ADJOINING UNITS. INSPECT PERIODICALLY AND REMOVE SILT WHEN MORE THAN 1/2 THE HEIGHT IS FILLED ON THE UPPER FENCE.
3. REPLENISH OR REPLACE HAY OR WOOD CHIPS AS INSTRUCTED BY E&S INSPECTOR.

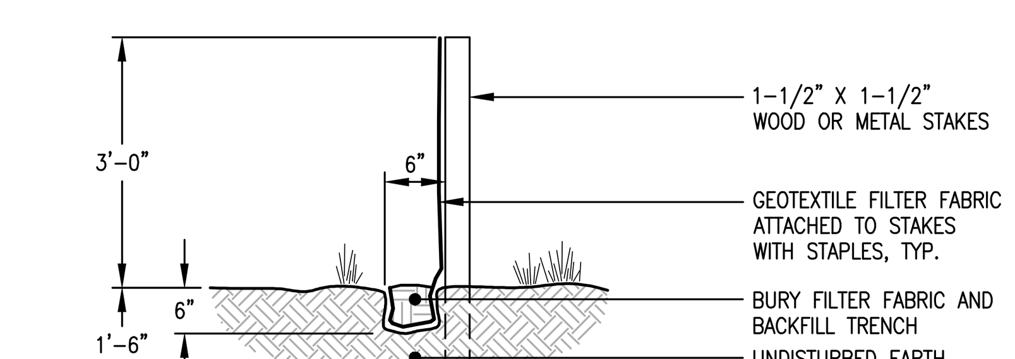


SEC 008C

DOUBLE FILTER FABRIC FENCE WITH BATTON DETAIL

N.T.S.

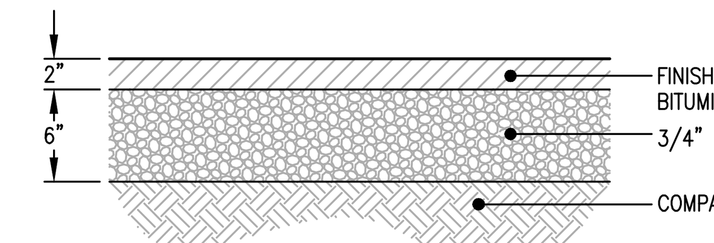
NOTES:
1. SPACING MAY VARY AS PER MANUFACTURERS RECOMMENDATIONS. MAXIMUM SPACING IS 8'-0".
2. JOIN SILT FENCE SECTIONS BY OVERLAPPING END STAKES TO PREVENT SILT FROM BYPASSING ADJOINING UNITS.
3. INSPECT PERIODICALLY AND REMOVE SILT WHEN MORE THAN 1/2 THE HEIGHT IS FILLED.
4. APPLY CRYSTAL POLYMER DOWN GRADIENT OF FENCE PER MANUFACTURER'S RECOMMENDATIONS WHEN CONSTRUCTION ZONE IS WITHIN 100 FEET OF A WETLAND OR WATERCOURSE.



SEC 008

FILTER FABRIC FENCE DETAIL

N.T.S.



PV/PED 013I

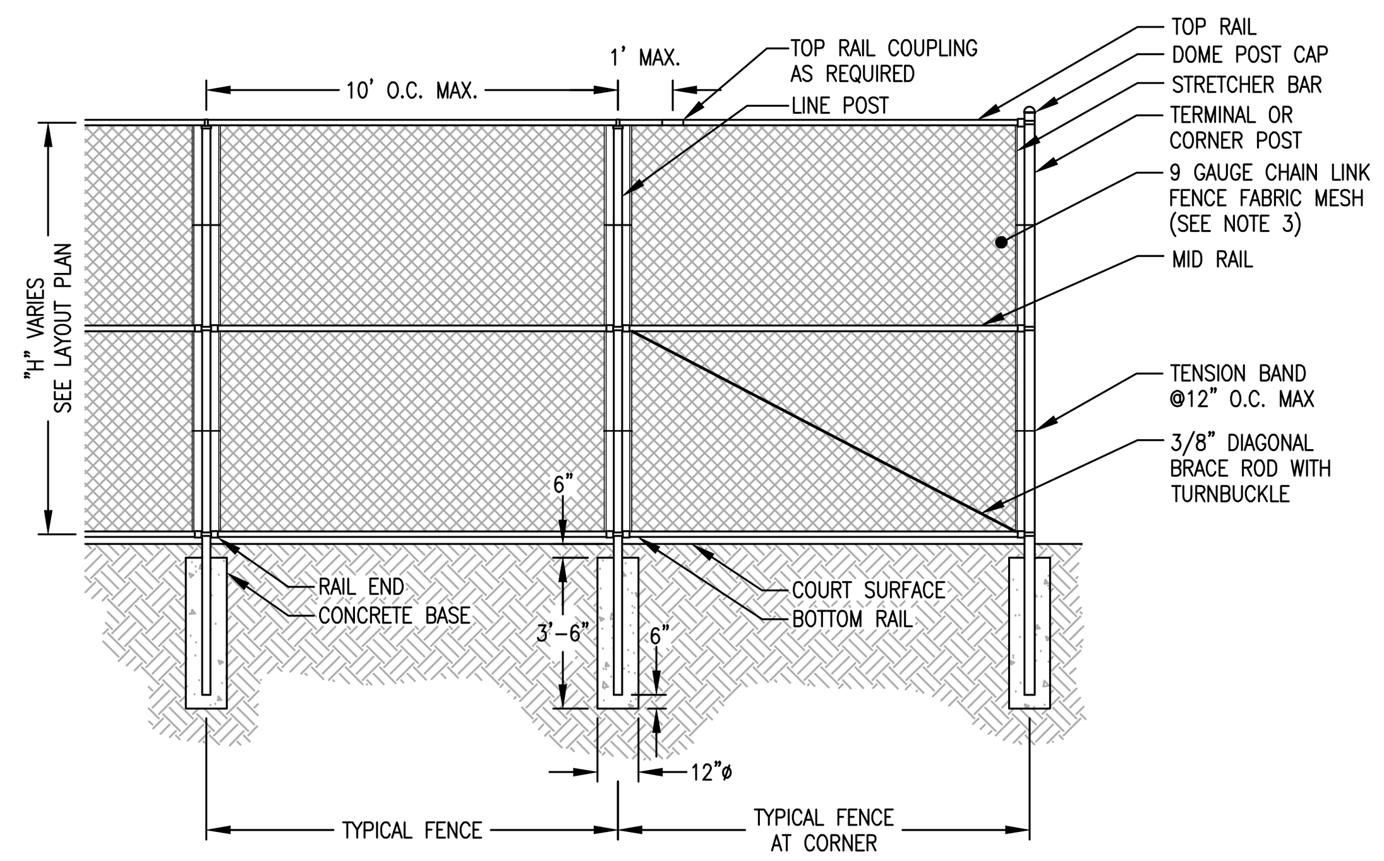
TYPICAL SIDEWALK BITUMINOUS CONCRETE PAVEMENT DETAIL

N.T.S.

FENCE SCHEDULE		
POST OR RAIL TYPE	H @ 4FT AND 5FT HIGH FENCE	H @ 6FT TO 10FT HIGH FENCE
TERMINAL OR CORNER POST	2 1/2"	3"
LINE POST	2"	2 1/2"
TOP RAIL	1 5/8"	1 5/8"
MID RAIL	NONE	1 5/8"
BOTTOM RAIL	1 5/8"	1 5/8"
GATE POST	3"	3"
GATE FRAME	2"	2"

NOTE: INSTALL FENCE TOPPER, OR APPROVED EQUAL, ON ALL FENCES AND GATES FOR H @ 5 FEET OR LESS.

NOTES:
1. ALL FENCING COMPONENTS TO BE VINYL COATED, COLOR BY CLIENT, INCLUDE WITH SUBMITTALS FOR APPROVAL.
2. ALL CONCRETE SHALL BE CLASS 'A' WITH A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI.
3. STANDARD FABRIC SHALL BE 2" MESH, 9 GAUGE; FABRIC MESH FOR TENNIS COURTS SHALL BE 1-3/4", AND MESH FOR HEIGHTS AT 4' OR LESS SHALL BE 1".
4. VINYL INFILL SLATS SHALL BE PROVIDED ONLY IF INDICATED ON THE SITE LAYOUT OR LANDSCAPE PLANS.
5. 9 GAUGE WIRE TIES SHALL BE SPACED @24" MAX ALONG HORIZONTAL RAILS AND @ 12" MAX FOR VERTICAL POSTS.

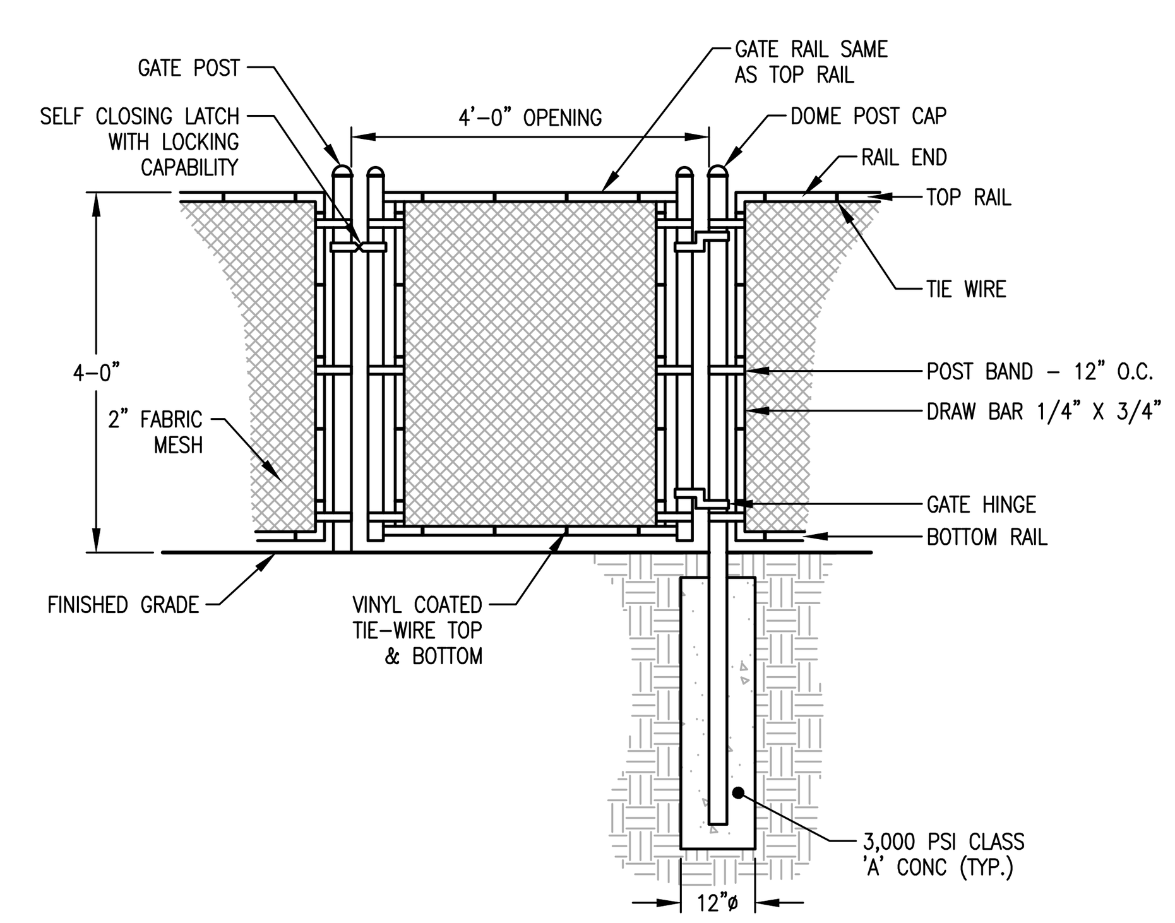


FEN 397

TYPICAL CHAIN LINK FENCE DETAIL

N.T.S.

NOTES:
1. REFERENCE IS MADE TO "TYPICAL CHAIN LINK FENCE DETAIL" FOR POST AND RAIL SCHEDULE AND SPECIFICATIONS.
2. GATE SHALL BE COMPLETED WITH BALL AND SOCKET HINGES THAT ARE SELF CLOSING, OR APPROVED EQUAL. SUBMIT SHOP DRAWINGS FOR APPROVAL.
3. ALL GATES TO OPEN OUTWARD EXCEPT OTHERWISE SHOWN.

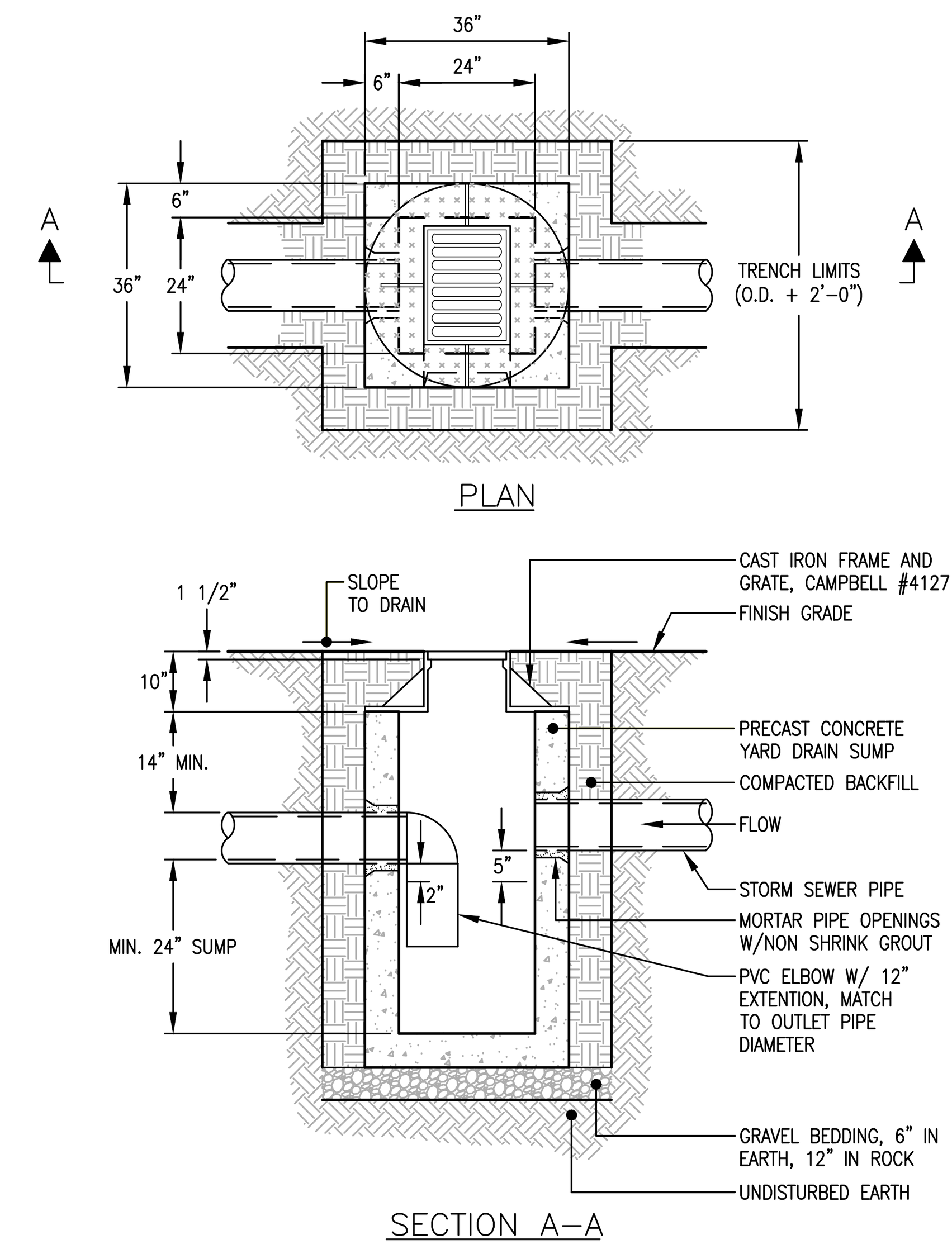


FEN 407

PEDESTRIAN GATE DETAIL

N.T.S.

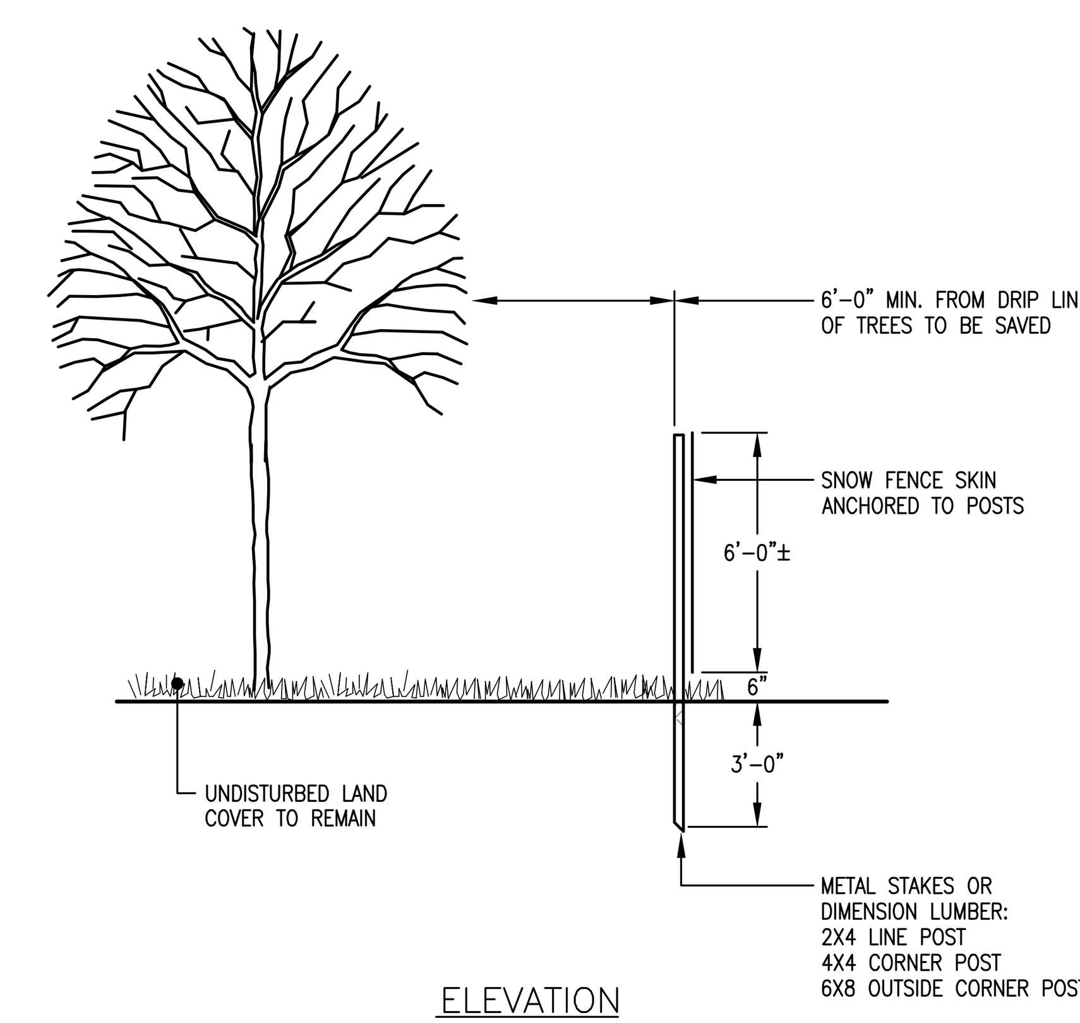
NOTES:
1. 4000 PSI CONCRETE SHALL BE USED FOR ALL PRECAST BASES, SUMPS, TRANSITION, RISER AND CORBEL SECTIONS. REINFORCING AND SPECIFICATIONS SHALL CONFORM TO ASTM C-478, LATEST REVISED EDITION.



STRM 057C

PRECAST CONCRETE YARD DRAIN DETAIL

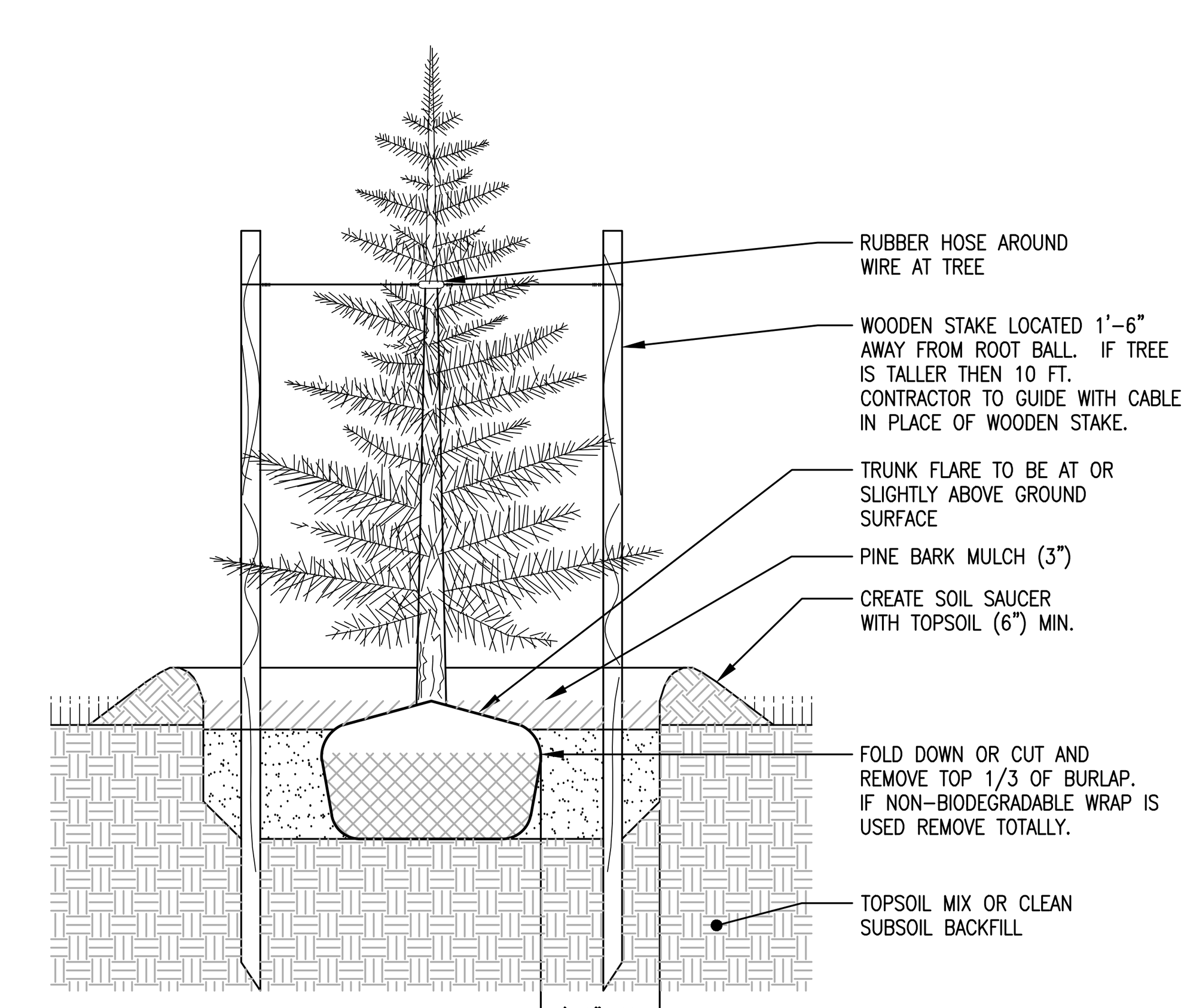
N.T.S.



LND 072

TREE PROTECTION DETAIL

N.T.S.



LND 131A

EVERGREEN TREE PLANTING DETAIL

N.T.S.

NOTE:
1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION, BY CALLING 1-800-922-4455.

REVISION				
NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	3-26-21	Added Riprap Outlet Detail.	S.A.L.	M.E.L.

DYMAR
800 Main Street South · Southbury, Ct. 06488 · (203) 267-1046 · Fax (203) 267-1547
ENGINEERING · PLANNING · SURVEYING · DEVELOPMENT SERVICES

DRAWINGS TO BE USED FOR LAND USE SUBMISSIONS ONLY
NOT FOR CONSTRUCTION

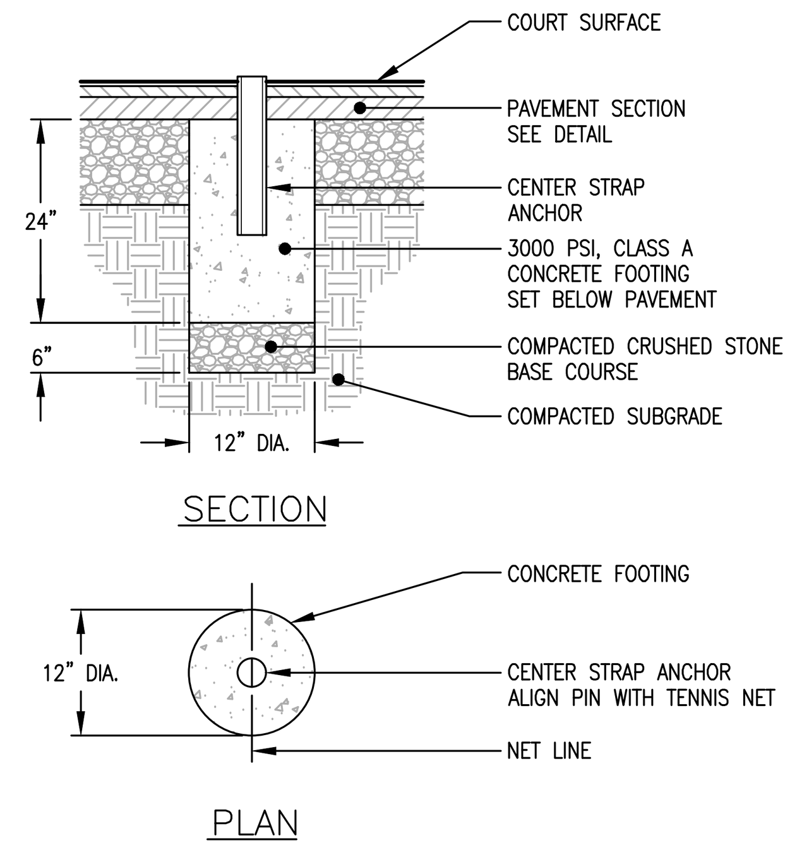
CLIENT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Sediment & Erosion Control Details, & Misc. Site Details

DATE:	02/15/21
SCALE:	AS NOTED
DESIGNED BY:	M.E.L.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C-5E

0 1 2



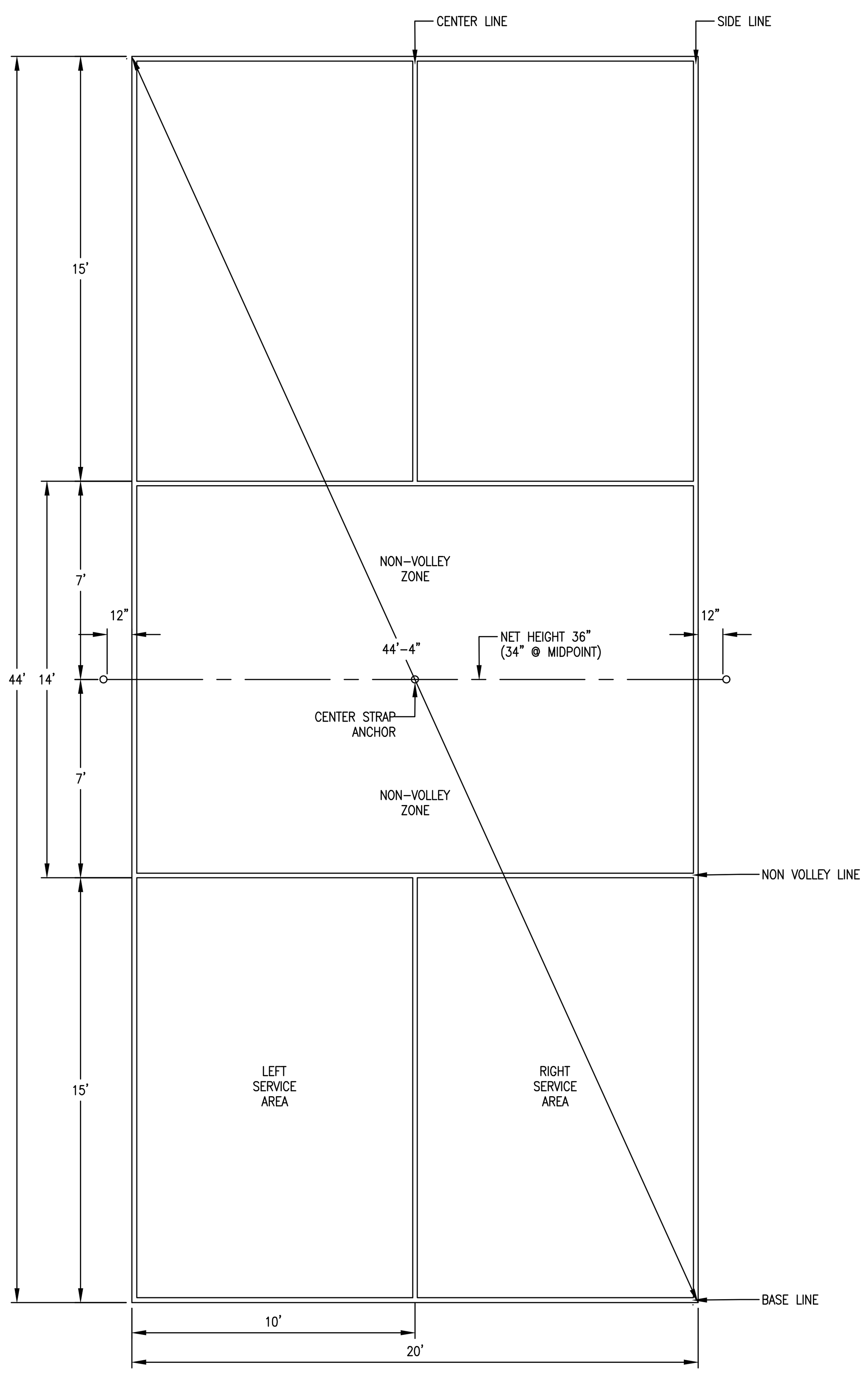
PICKLEBALL NET CENTER STRAP ANCHOR

SITE/SP 418

N.T.S.

NOTES:

1. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF LINES.
2. ALL PLAYING LINES ARE 2" IN WIDTH.
3. NET SPECIFICATIONS:
   a. THE NET MADE OF ANY MATERIAL THAT WILL NOT ALLOW A BALL TO PASS THROUGH IT.
   b. THE NET SHOULD BE 21'-9" LONG, EXTENDING FROM ONE POST TO ANOTHER. THE NET HEIGHT FROM THE BOTTOM EDGE SHOULD BE AT LEAST 30".
   c. THE NET SHALL BE SUSPENDED OVER THE CENTER OF THE COURT. THE TOP SHALL BE 36" ABOVE GRADE AT THE SIDELINES AND A MINIMUM 34" AT THE MIDPOINT.
   d. A CENTER STRAP IS RECOMMENDED FOR A PERMANENT NET AND MUST BE PLACED AT THE CENTER OF THE NET TO ALLOW FOR THE ADJUSTMENT OF THE NET TO MAINTAIN THE MINIMUM 34" HEIGHT.
   e. THE TOP OF THE NET SHOULD BE EDGED WITH A 2-INCH WHITE TAPE BINDING OVER A CORD OR CABLE RUNNING THROUGH THE BINDING. THIS BINDING MUST REST UPON THE CORD OR CABLE.
   f. NET POSTS SHOULD BE 22'-0" FROM INSIDE POST TO INSIDE POST, THE MAXIMUM DIAMETER SHOULD BE 3".



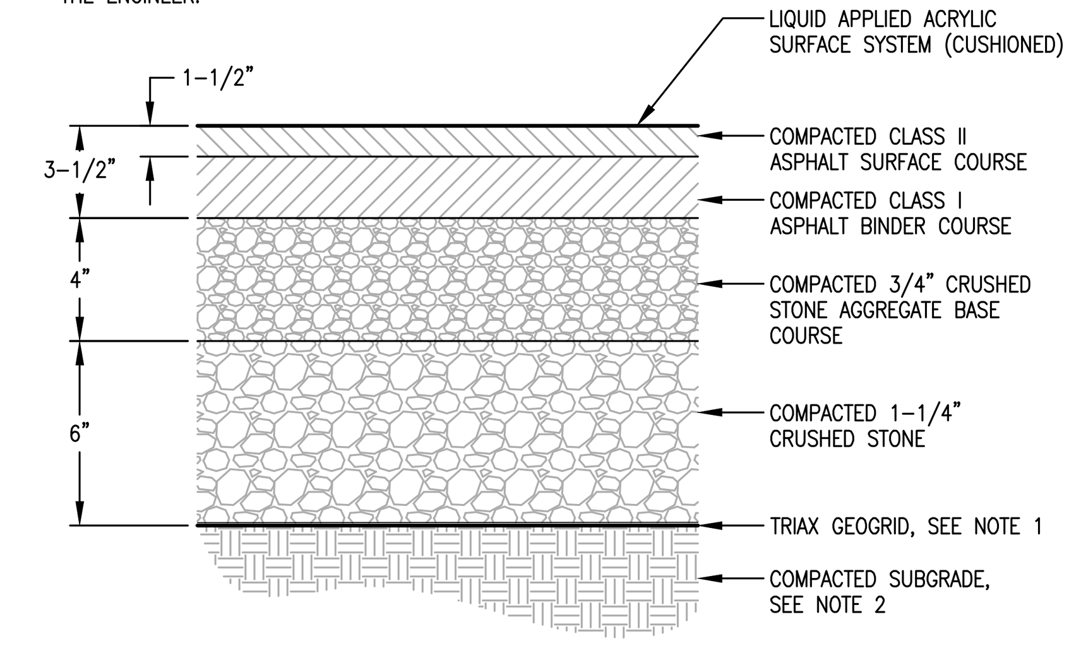
TYPICAL PICKLEBALL COURT PLAYING LINE LAYOUT

SITE/SP 414

SCALE" 1/4"=1'

NOTES:

1. TRIAX GEOGRID SHALL BE FILTER GRID FG30 BY TENSAR, OR APPORVED EQUAL.
2. REMOVE UNSUITABLES COMPRISED OF ORGANICS, FILL, AND WETLAND SOILS A MINIMUM OF 12 INCHES AND REPLACE WITH SUITABLE STRUCTURAL REFILL MATERIAL AS APPROVED BY THE ENGINEER.

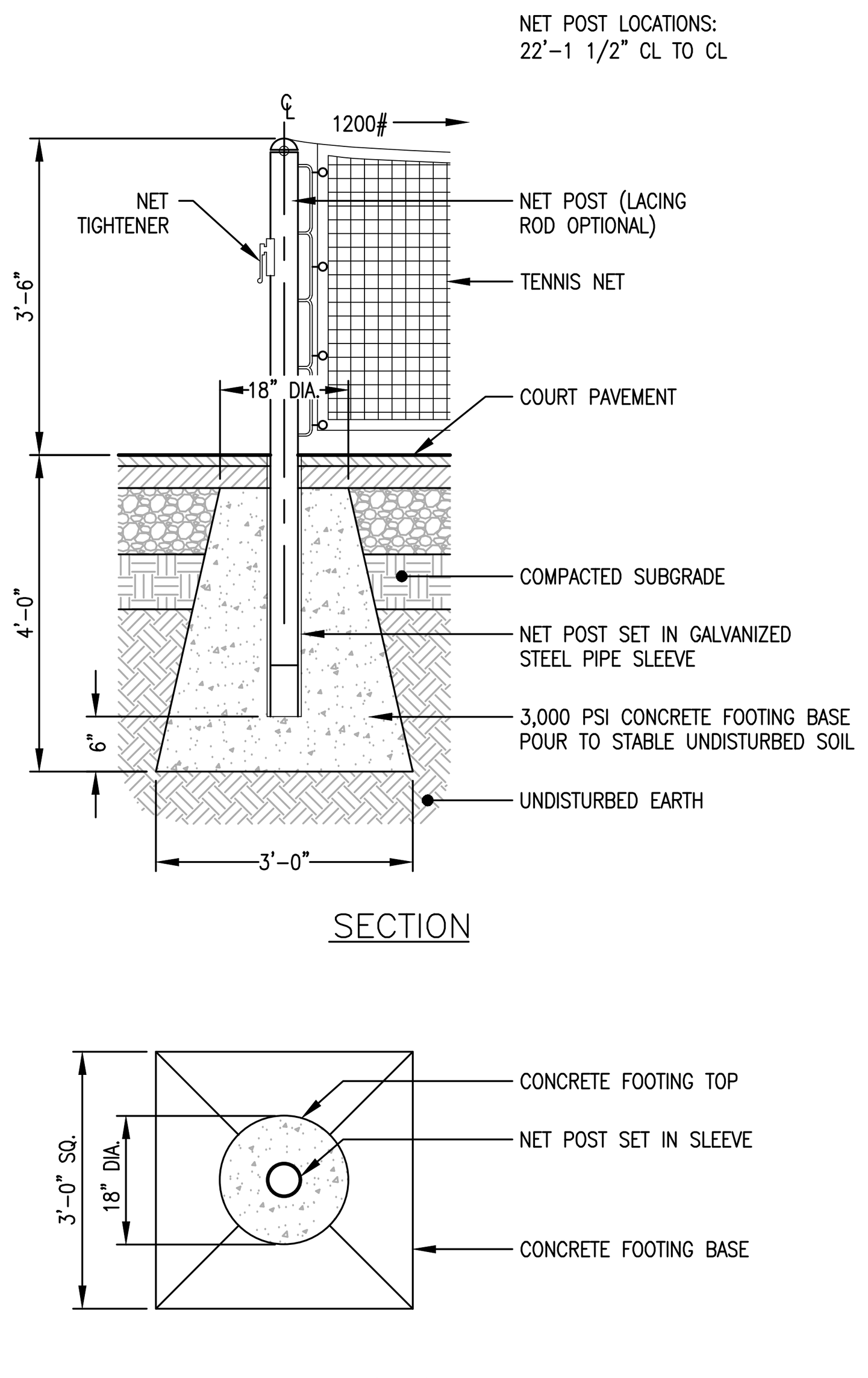


ASPHALT PICKLEBALL COURT SECTION

SITE/SP 415

N.T.S.

NET POST LOCATIONS:
22'-1 1/2" CL TO CL



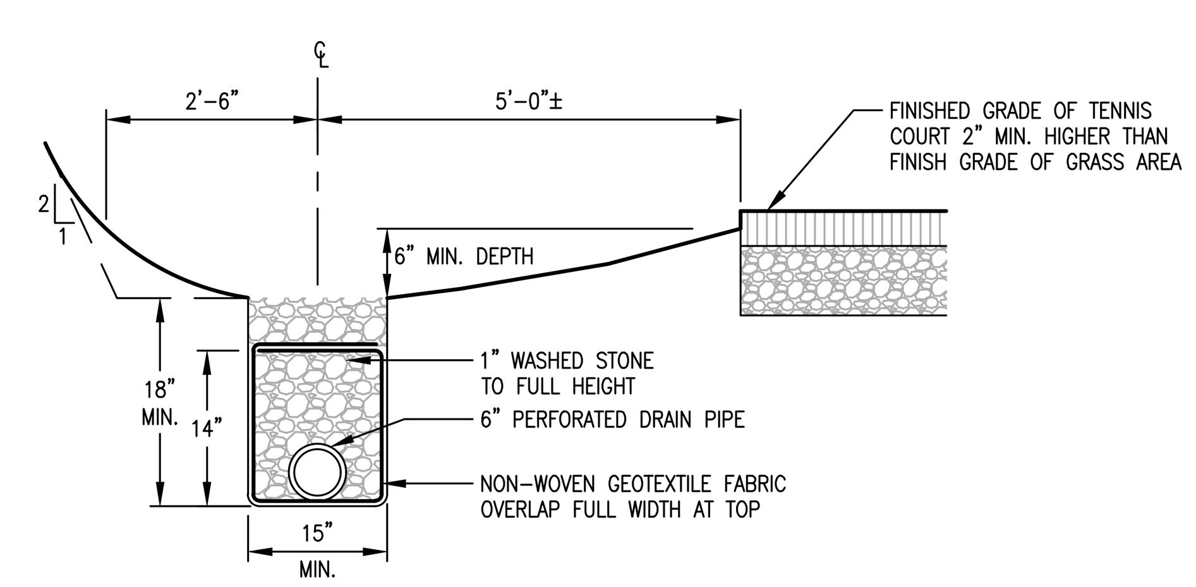
PICKLEBALL NET POST FOOTING

SITE/SP 416

N.T.S.

NOTES:

1. SEE SITE PLAN FOR LOCATION OF DRAIN AND STORM CONVEYANCE SYSTEM.
2. DRAIN PIPE SHALL BE HDPE, CLASS 2 PERFORATED PIPE MEETING AASHTO M252.
3. GEO-TEXTILE SHALL BE MARAFI 140N OR APPROVED EQUAL.



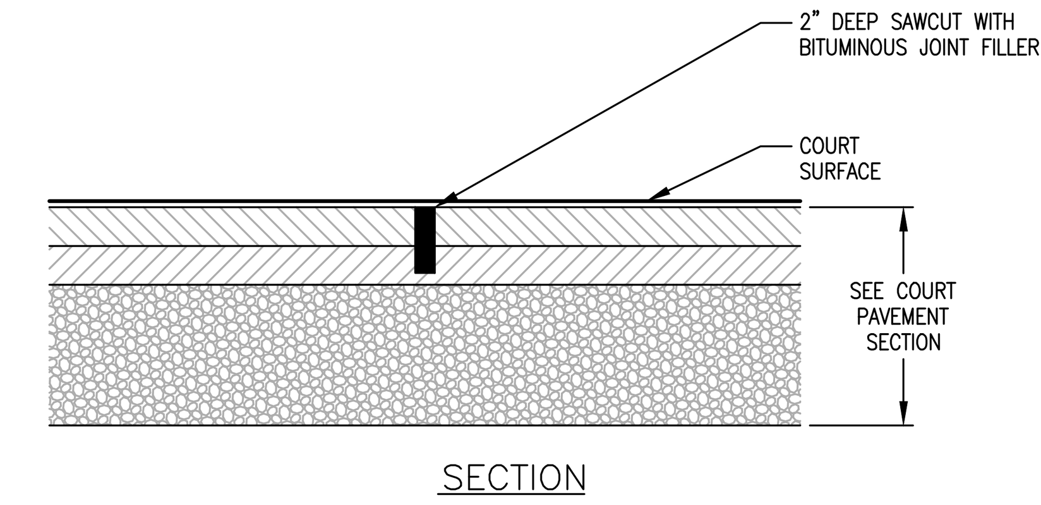
GRAVEL UNDERDRAIN AT COURT EDGES DETAIL

SITE/SP 395

N.T.S.

NOTES:

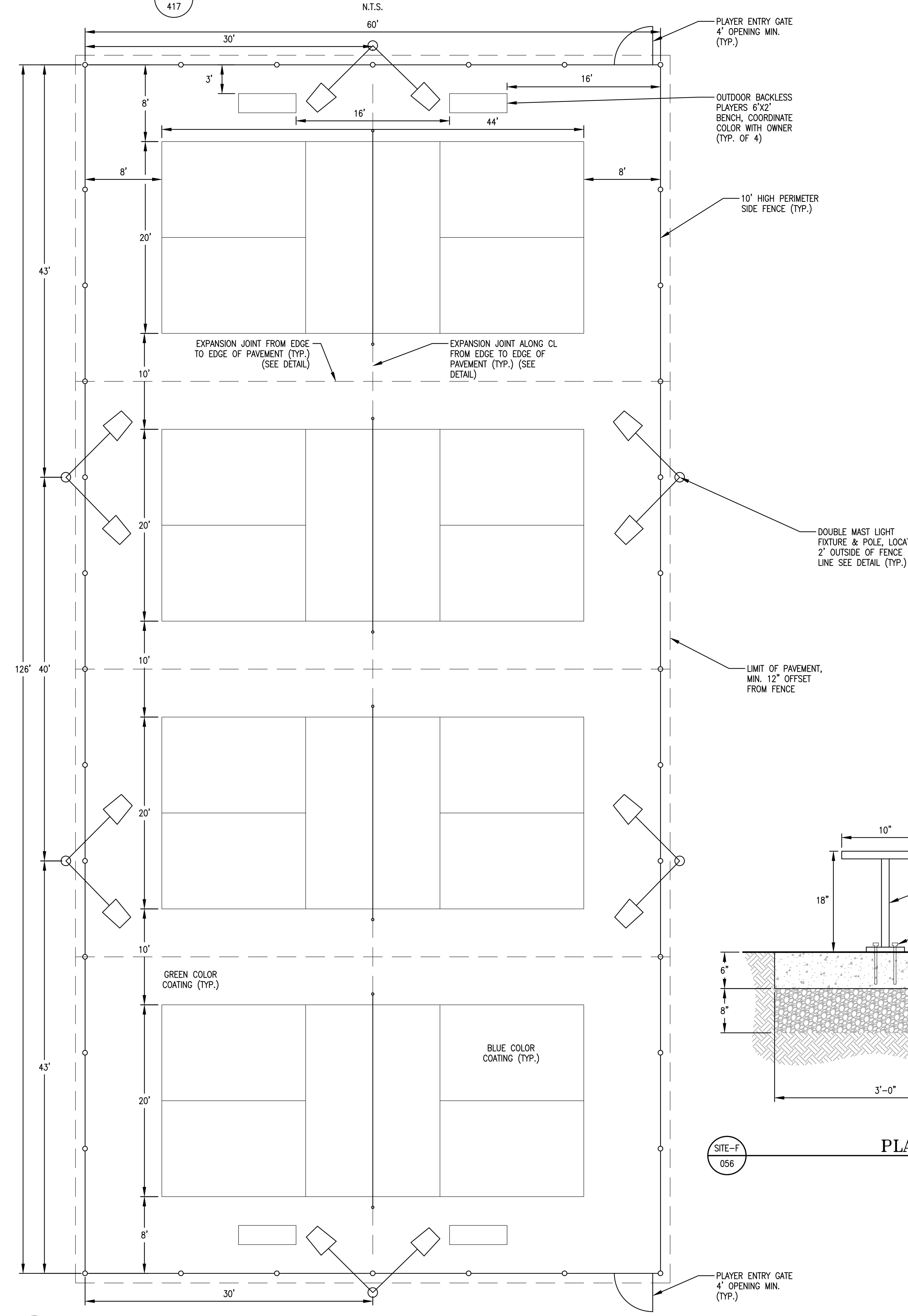
1. INSTALL EXPANSION JOINT COMPLETE PRIOR TO APPLYING COURT SEALER OR ASPHALT SURFACES.



PICKLEBALL COURT EXPANSION JOINT DETAIL

SITE/SP 417

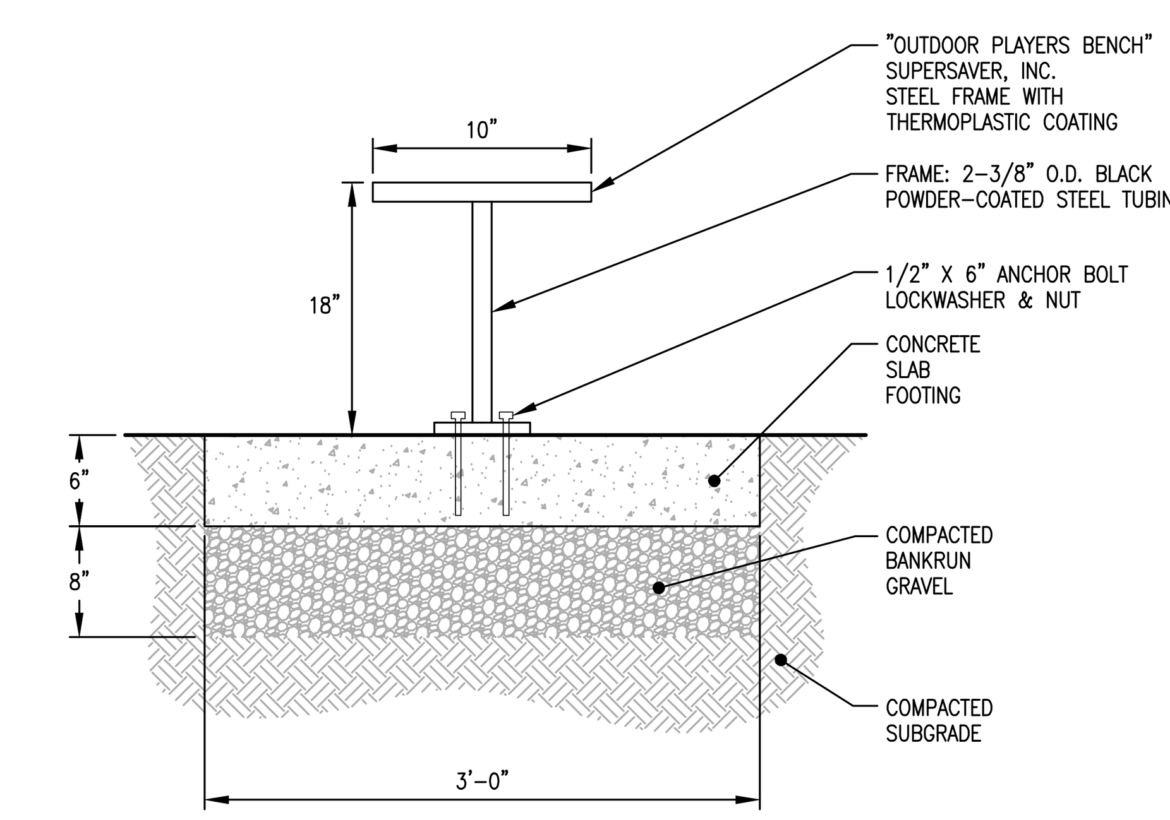
N.T.S.



FOUR BAY PICKLEBALL COURT LAYOUT

SITE/SP 419

SCALE: 1/8"=1'



PLAYERS BENCH

SITE-F 056

N.T.S.

NOTE:

1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION, BY CALLING 1-800-922-4455.

REVISION				
NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

DYMAR
800 Main Street South · Southbury, Ct. 06488 · (203) 267-1046 · Fax (203) 267-1547
ENGINEERING · PLANNING · SURVEYING · DEVELOPMENT SERVICES

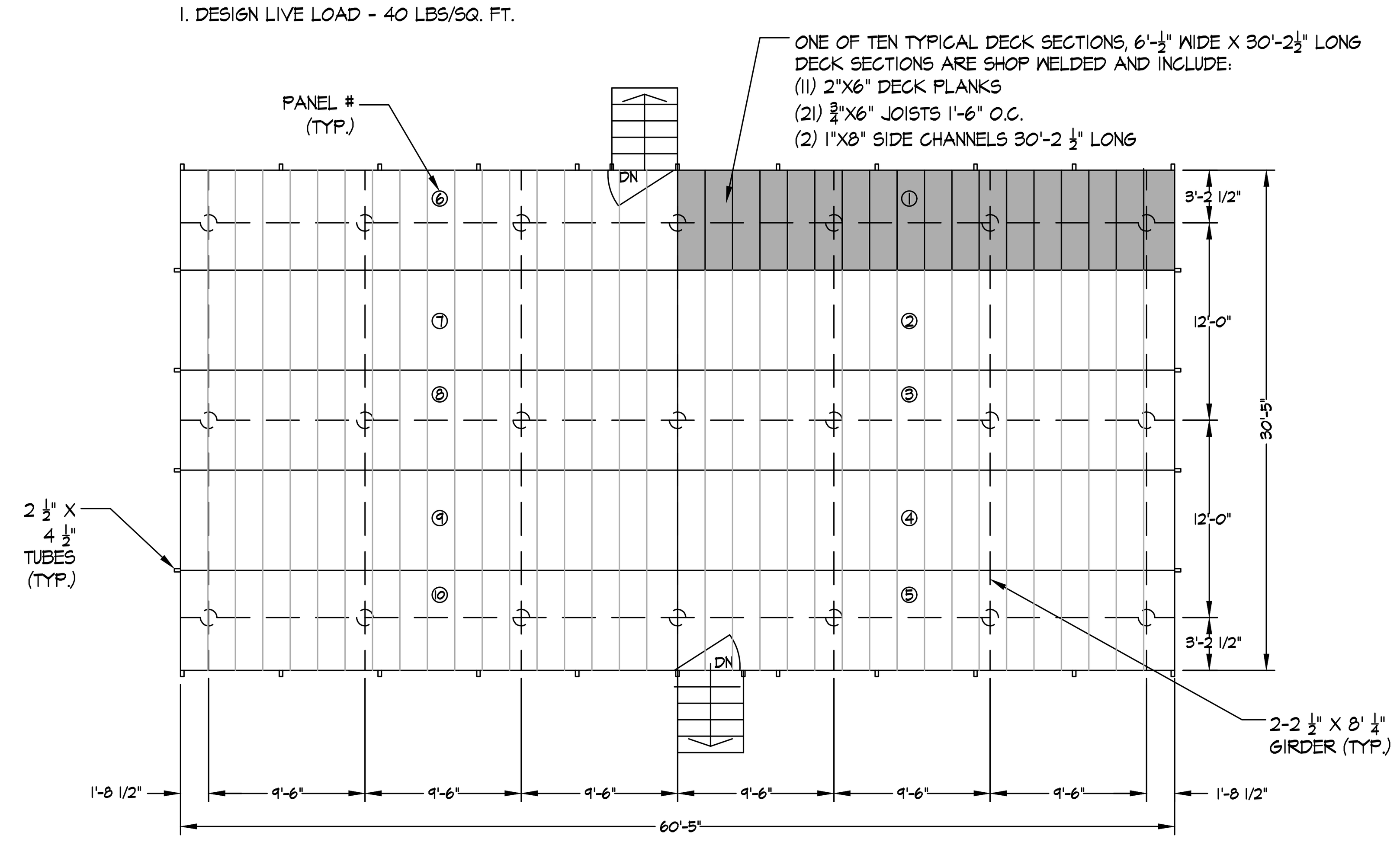
DRAWINGS TO BE USED FOR LAND USE SUBMISSIONS ONLY
NOT FOR CONSTRUCTION

CLIENT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

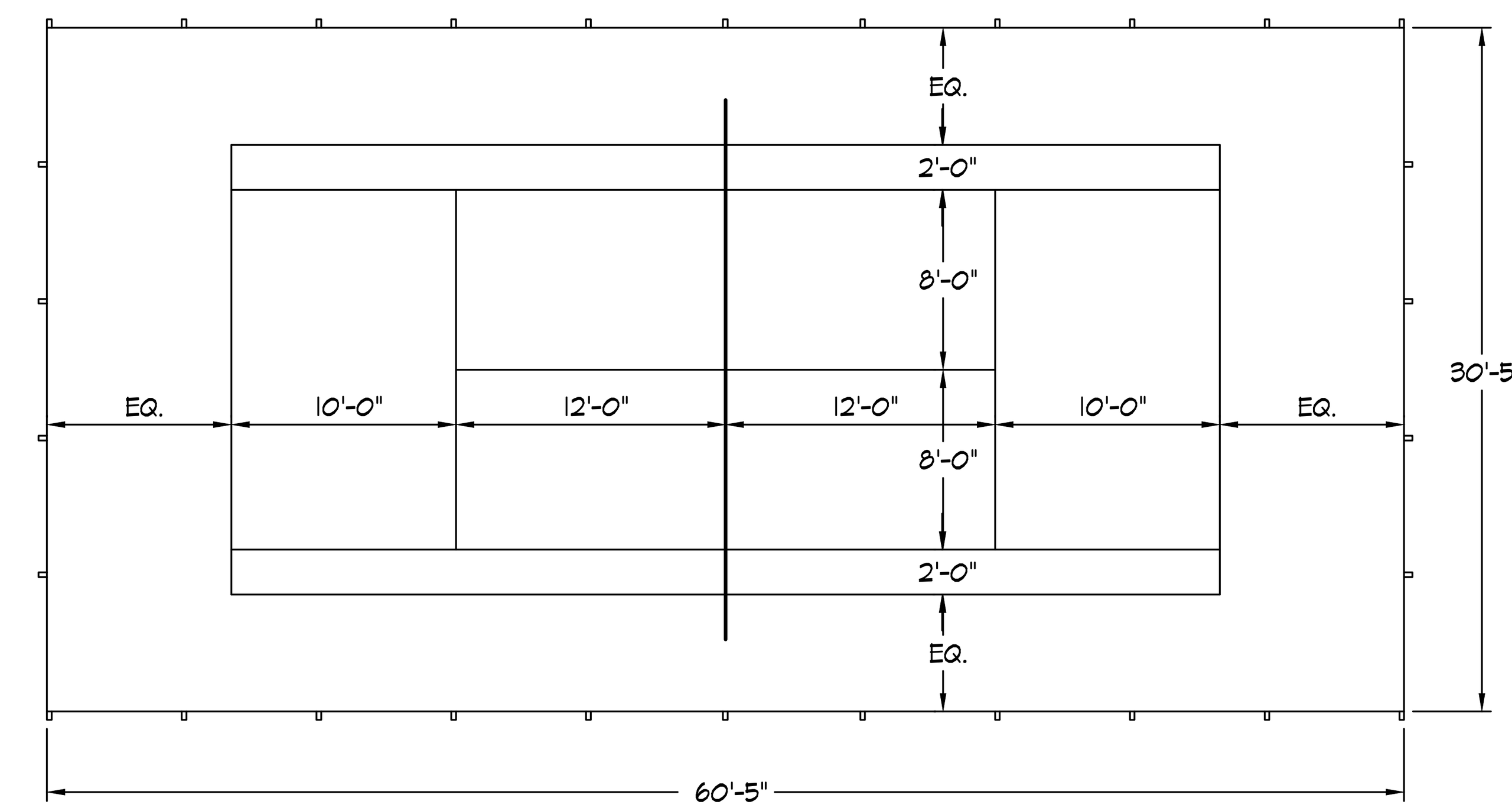
PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Pickleball Court Details

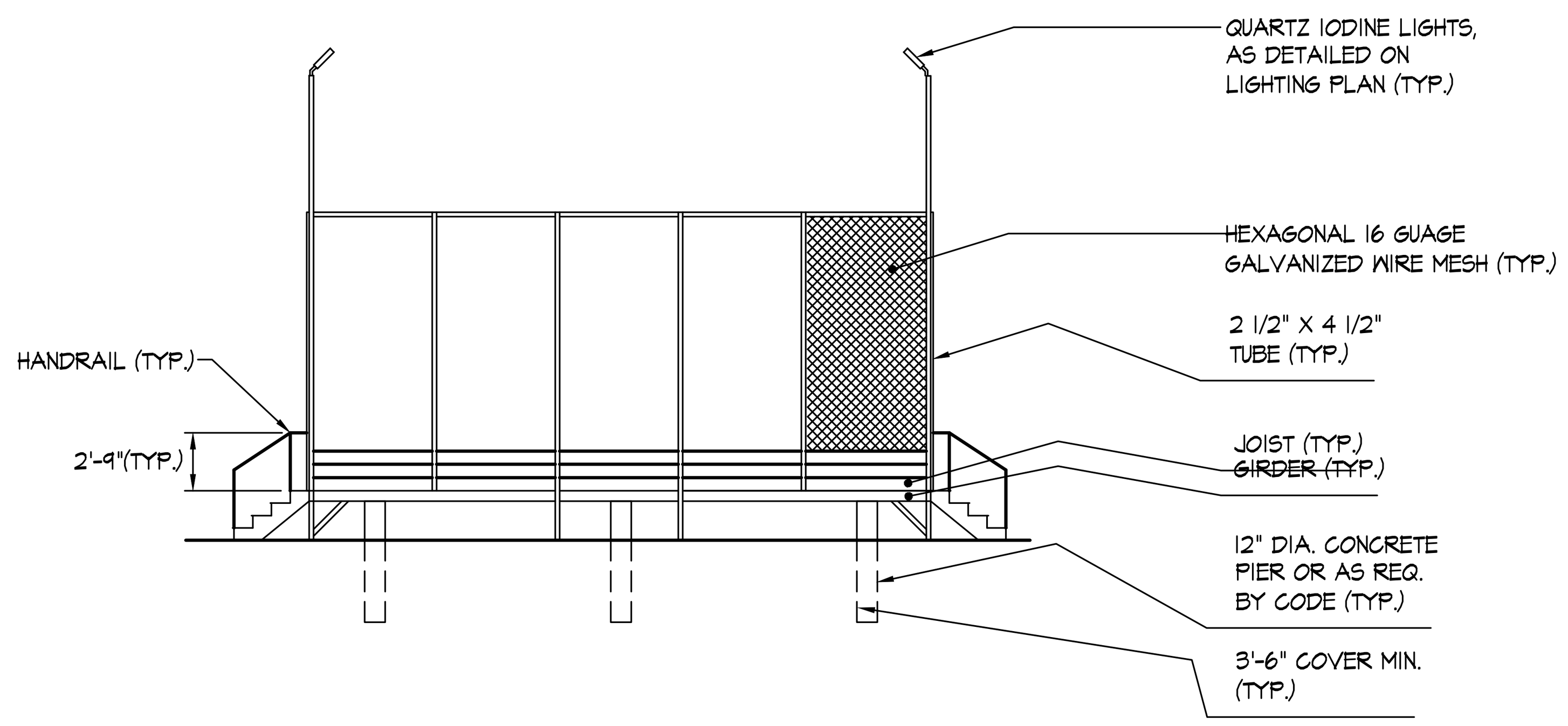
DATE:	02/15/21
SCALE:	AS NOTED
DESIGNED BY:	M.E.L.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C-6A



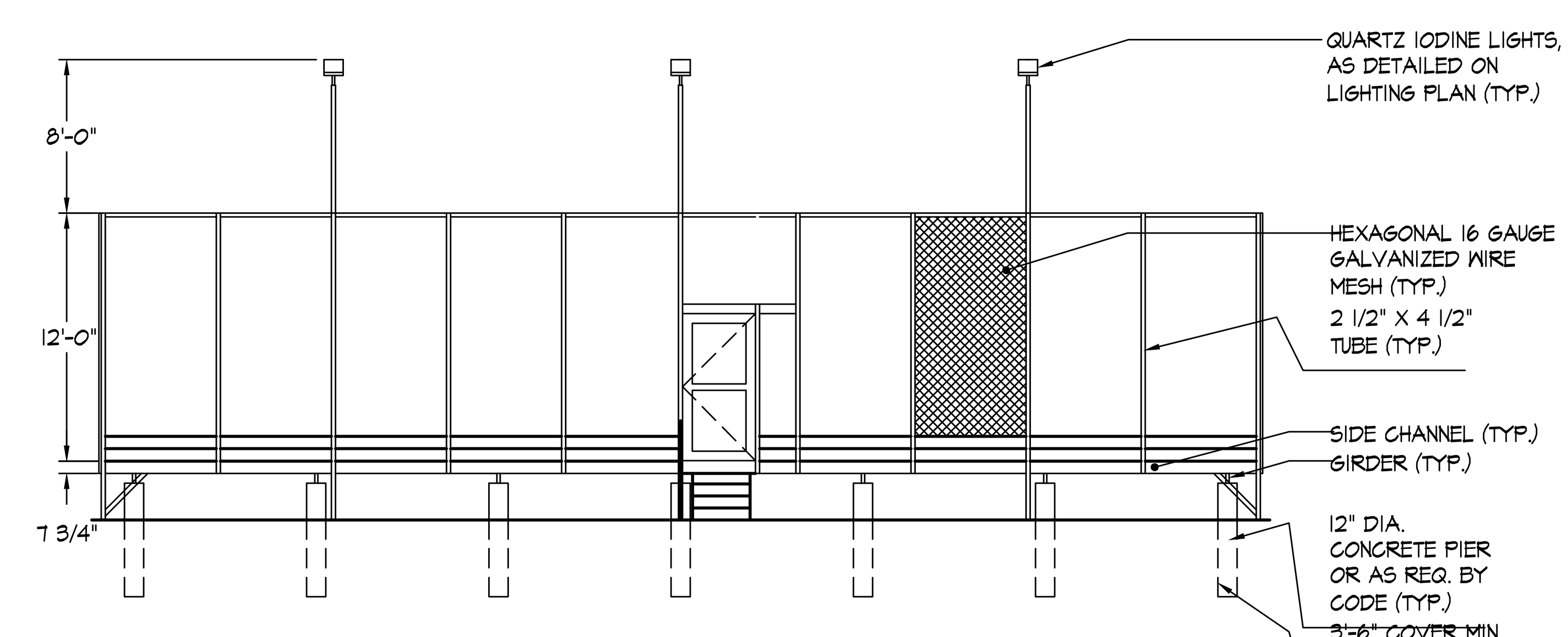
1
FRAMING PLAN
SCALE: 1/8" = 1'-0"



3
COURT MARKINGS
SCALE: 1/8" = 1'-0"



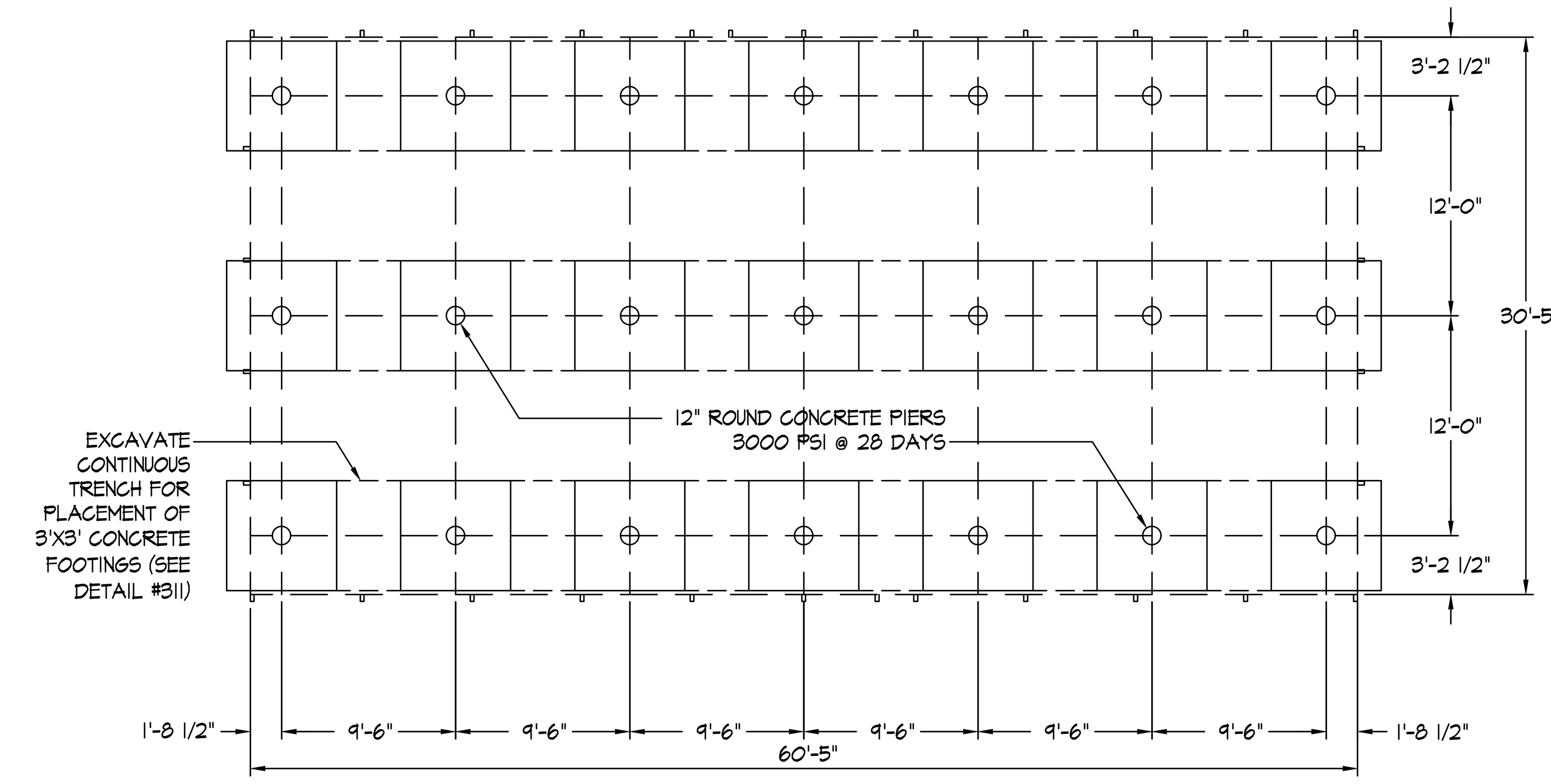
END ELEVATION



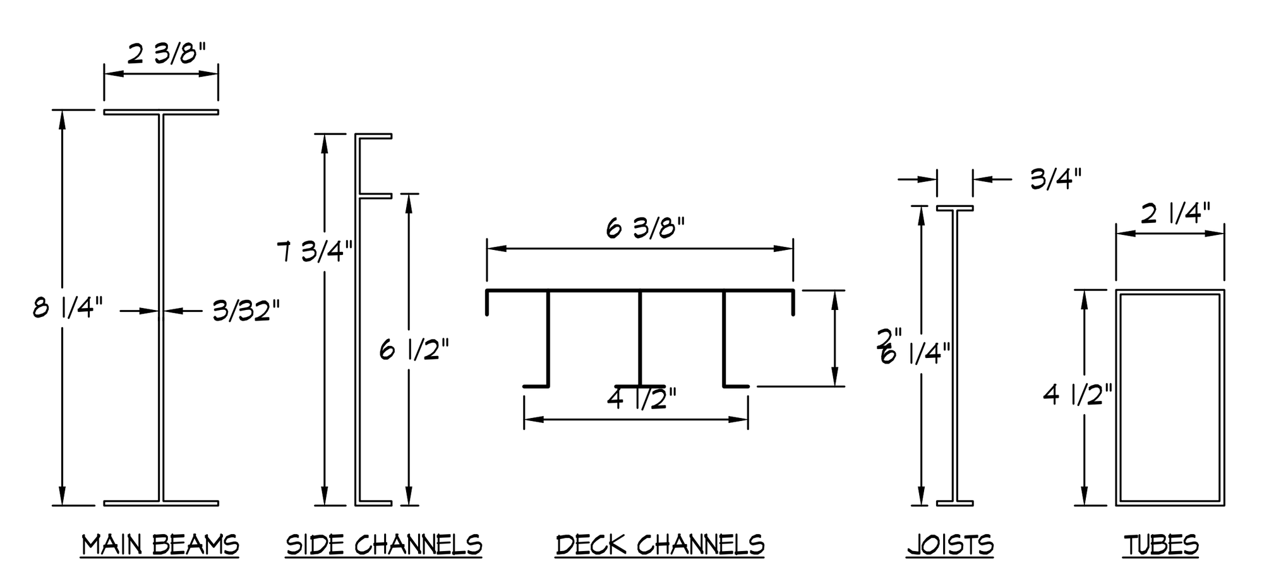
SIDE ELEVATION

2
TYPICAL PADDLE TENNIS COURT ELEVATIONS
SCALE: 1/8" = 1'-0"

NOTES:
1. FINAL FOUNDATION PLAN TO BE DETERMINED BY OTHERS ACCORDING TO EXISTING SOIL CONDITIONS.



4
FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



5
TYPICAL STRUCURAL MEMBERS
SCALE: 3" = 1'-0"

NOTE:
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REVISION				
NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

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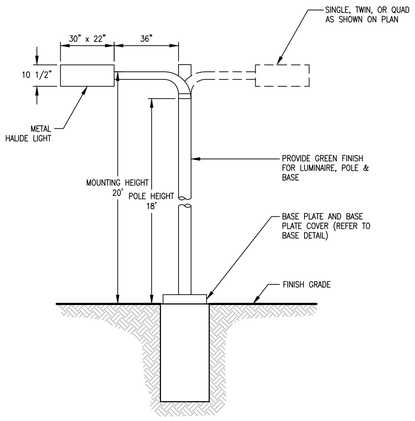
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Paddle Ball Court Details

DATE:	02/15/21
SCALE:	AS NOTED
DESIGNED BY:	M.E.L.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C-6B

NOTES:
1. LIGHTING SUPPLIED BY LEE TENNIS (877-4HARTRU) OR APPROVED EQUAL.
2. CATALOG No: ELSCO-T001.

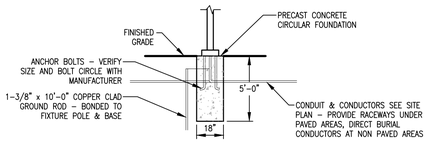


ELEVATION

LGT 130C

TENNIS COURT LIGHTING POLE & LUMINAIRE DETAIL

N.T.S.



LGT 184B

SITE LIGHTING POLE FOUNDATION

N.T.S.

Luminaire Schedule						
Symbol	**Qty**	**Label**	**Arrangement**	**LLF**	**Description**	**Lum. Watts**
	24	S2	2 @ 90 DEGREES	1.000	VUE-3-TT-144L-1-50K-D90° @ 29' MTG. HT.	458
	3	S4	4 @ 90 DEGREES	1.000	VUE-3-TT-144L-1-50K-4@90° @ 29' MTG. HT.	458

Calculation Summary						
Label	**Units**	**Avg**	**Max**	**Min**	**Avg/Min**	**Max/Min**
calcs	Fc	10.76	63.4	0.0	N.A.	N.A.
COURT 1	Fc	48.98	56.8	41.0	1.19	1.39

NLS LIGHITNG
EASTON RACQUET CLUB
LIGHTING AFFILIATES
DATE:01/17/21

NOTE:
1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION, BY CALLING 1-800-922-4455.

REVISION				
NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

DYMAR
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CLIENT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Tennis Courts & Pickle Ball Courts
Photometric and Lighting Details

DATE:	02/15/21
SCALE:	1"=30'
DESIGNED BY:	M.E.L.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C-7A

1 2

NLS LIGHTING

VUE SERIES

FULL CUTOFF SITE LIGHTING

FORM AND FUNCTION
- Sleek, low profile housing
- Dark Sky Compliant, Full Cutoff
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for Parking Lots, Auto Dealerships, Municipalities, Tennis Courts, Field Lighting

CONSTRUCTION
- Aluminum
- External cooling fins, Finite Element Analysis (FEA) designed
- Corrosion resistant external hardware

FINISH
- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY
Five-year limited warranty for drivers and LEDs.

LISTINGS
- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium® Premium (DLCP)

LED WATTAGE CHART

	20L	32L	48L	64L	80L	96L	112L	128L	144L	160L	176L	192L
530 milliamps	35w	54w	76w	102w								
700 milliamps	44w	71w	104w	138w								
1050 milliamps	70w	106w	158w	209w	263w	316w	366w	409w	458w	505w	551w	594w
	SIZE 1				**SIZE 2**				**SIZE 3**			

Project Name:

Type:

Cat #	Light Dist.	No. of LEDs	Millilamps	Kelvin	Volts	Mounting	Color	Options

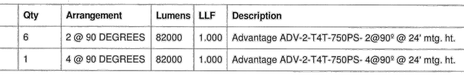
VUE-1 *(205W Max)* **(VUE-1)**
VUE-2 *(316W Max)* **(VUE-2)**
VUE-3 *(594W Max)* **(VUE-3)**
	Type 1 **(T1)**
	Type 2 **(T2)**
	Type 3 **(T3)**
	Type 4 **(T4)**
	Type 5 **(T5)**
	Tennis Optic **(TT)**
		Size 1
		20 **(20L)**
		32 **(32L)**
		48 **(48L)**
		64 **(64L)**
		Size 2
		80 **(80L)**
		96 **(96L)**
		Size 3
		112 **(112L)**
		128 **(128L)**
		144 **(144L)**
		160 **(160L)**
		176 **(176L)**
		192 **(192L)**
			530 **(53)**
			700 **(7)**
			1050 **(1)**
				3000K **(30K)**
				4000K **(40K)**
				5000K **(50K)**
					120-277 **(UNV)**
					347-480 **(HV)**
						Direct Pole
						For (All Sizes): Single, D180
						Square **(DPS6)**
						Round **(DPR6)**
						For (Size 1): D90, T90, T120, QD
						Square **(DPS10)**
						Round **(DPR10)**
						For (Size 2): D90, T90, T120, QD
						Square **(DPS12)**
						Round **(DPR12)**
						For (Size 3): D90, T90, T120, QD
						Square **(DPS16)**
						Round **(DPR16)**
						**See next page for Arm Configurations*
						Knuckle Mount **(KM)**
						Trunion Mount **(TM)**
						Tennis Arm **(TA)**
						Mast Arm **(MA)**
						Wall Mount **(WM)**
						**Includes 6" Bolt On Arm*
						Direct Wall Mount **(DWM)**
						**Includes Wall Plate*
						**VUE-1 Only*
							Bronze **(BRZ)**
							White **(WHT)**
							Silver **(SVR)**
							Hunter Green **(HGN)**
							Black **(BLK)**
							Graphite **(GPH)**
							Grey **(GRY)**
							Custom **(CS)**
								Bird Spikes **(BS)**
								Marine Grade Finish **(MGF)**
								Nema 7-Pin Receptacle **(PE7)**
								Photocell **(PC)**
								**Universal Voltage 120-277*
								Photocell + Receptacle **(PCR)**
								Receptacle + Shorting Cap **(PER)**
								Integral FSP-211 Motion Sensor (UNV Voltage)
								(FSP-8) **For 8' x Below*
								(FSP-20) **For 9' to 20'*
								(FSP-40) **For 21' to 40'*
								Motion Sensor **(MS)**
								Surge Protector **(10K)**
								Rotate Optic Right **(ROR)**
								Rotate Optic Left **(ROL)**
								House Side Shield **(HSS)**
								Front Side Shield **(FSS)**

ELECTRICAL
- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver by Philips Advance
- Driver power factor at maximum load is ≥ .95, THD maximum load is 15%
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- Lumileds Luxeon MX LEDs
- CRI >70
- Color temperatures: 3000K, 4000K, 5000K

OPTIONS
- **BIRD SPIKES (BS)**—offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.
- **MARINE GRADE FINISH (MGF)**—A multi-step process creating protective finishing coat against harsh environments.
  - Chemically washed in a 5 stage cleaning system.
  - Pre-baked
  - Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer.
  - 1-2 feet inside pole coverage top and bottom.
  - Oven Baked.
  - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness
- **SHIELDS (HSS, FSS)**—Four-sided House Side Shield (HSS) is designed for full property line cut-off. Front-Side Shield (FSS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.

CONTROLS
- **FSP-211 (FSP-X)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
  - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
  - FSP-20 mounting heights 9-20 feet
  - FSP-40 mounting heights 21-40 feet.
  - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
- **NEMA 7-PIN RECEPTACLE (PE7)**—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

OPTICS
Recessed Star Power Optical System is 95% reflective material. Utilizes a linear diffused pattern, softening the light distribution and eliminating any dark shadows or striations.
- IES Types

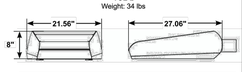


TYPE I (T1) TYPE II (T2) TYPE III (T3) TYPE IV (T4) TYPE V (T5) TYPE T (TT)

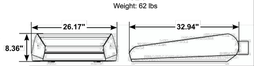
NLS LIGHTING
701 Kingshill Place, Carson, CA 90746
Call Us Today (310) 341-2037
nlslighting.com

VUE-1
Weight: 27 lbs

VUE-2
Weight: 34 lbs



VUE-3
Weight: 62 lbs

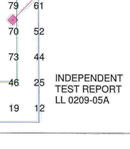


EPA	SGL	D90	D180	T90	T120	QD
VUE-1	1.01	2.02	1.79	2.72	2.78	2.72
VUE-2	1.51	3.02	2.79	4.21	4.34	4.21
VUE-3	1.86	3.72	3.56	5.37	5.48	5.37

DPX ARM LENGTH

	SGL	D90	D180	T90	T120	QD
VUE-1	6"	10"	6"	10"	10"	10"
VUE-2	6"	12"	6"	12"	12"	12"
VUE-3	6"	16"	6"	16"	16"	16"

FSP-211



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nlslighting.com

VUE - LUMEN DATA CHART

PART NUMBER	T1 OPTIC	Lm/W	°DLC	T2 OPTIC	Lm/W	°DLC	T2-HSS OPTIC	Lm/W	°DLC	T3 OPTIC	Lm/W	°DLC	T3-HSS OPTIC	Lm/W	°DLC	T4 OPTIC	Lm/W	°DLC	T4-HSS OPTIC	Lm/W	°DLC	T5 OPTIC	Lm/W	°DLC	TT OPTIC	Lm/W	°DLC	WATT
VUE-1-20L-53-30K	3185	91	S	3780	108	S	2450	70	S	3500	100	S	3150	90	S	3430	98	S	3290	94	S	3465	99	S	-	-	S	35
VUE-1-20L-53-40K	3290	94	S	3815	109	S	2610	74	S	3535	101	S	3325	95	S	3535	101	S	3395	97	S	3500	100	S	-	-	S	35
VUE-1-20L-53-50K	3465	99	S	3885	111	S	2785	79	S	3570	102	S	3400	100	S	3605	103	S	3502	100	S	3535	101	S	-	-	S	35
VUE-1-20L-7-30K	4004	91	S	4752	108	S	3080	70	S	4400	100	S	3960	90	S	4312	98	S	4136	94	S	4356	99	S	-	-	S	44
VUE-1-20L-7-40K	4136	94	S	4796	109	S	3282	74	S	4444	101	S	4180	95	S	4444	101	S	4299	97	S	4400	100	S	-	-	S	44
VUE-1-20L-7-50K	4356	99	S	4884	111	S	3485	79	S	4488	102	S	4383	100	S	4532	103	S	4402	100	S	4444	101	S	-	-	S	44
VUE-1-20L-1-30K	6370	91	S	7560	108	S	4900	70	S	7000	100	S	6300	90	S	6860	98	S	6580	94	S	6930	99	S	-	-	S	70
VUE-1-20L-1-40K	6580	94	S	7630	109	S	5230	75	S	7070	101	S	6650	95	S	7070	101	S	6790	97	S	7000	100	S	-	-	S	70
VUE-1-20L-1-50K	6930	99	S	7770	111	S	5560	79	S	7140	102	S	6965	100	S	7210	103	S	7004	100	S	7070	101	S	-	-	S	70
VUE-1-32L-53-30K	4914	91	S	5832	108	S	3780	70	S	5400	100	S	4860	90	S	5292	98	S	5076	94	S	5346	99	S	-	-	S	54
VUE-1-32L-53-40K	5076	94	S	5886	109	S	4046	75	S	5454	101	S	5130	95	S	5454	101	S	5238	97	S	5400	100	S	-	-	S	54
VUE-1-32L-53-50K	5346	99	S	5994	111	S	4306	79	S	5508	102	S	5373	100	S	5562	103	S	5403	100	S	5454	101	S	-	-	S	54
VUE-1-32L-7-30K	6461	91	S	7668	108	S	4970	70	S	7100	100	S	6390	90	S	6958	98	S	6674	94	S	7029	99	S	-	-	S	71
VUE-1-32L-7-40K	6674	94	S	7739	109	S	5302	74	S	7171	101	S	6745	95	S	7171	101	S	6937	97	S	7100	100	S	-	-	S	71
VUE-1-32L-7-50K	7029	99	S	7881	111	S	5634	79	S	7242	102	S	7072	100	S	7313	103	S	7135	100	S	7171	101	S	-	-	S	71
VUE-1-32L-1-30K	9646	91	S	11448	108	S	7420	70	S	10600	100	S	9540	90	S	10388	98	S	9964	94	S	10494	99	S	-	-	S	106
VUE-1-32L-1-40K	9964	94	S	11554	109	S	7870	74	S	10706	101	S	10070	95	S	10706	101	S	10282	97	S	10600	100	S	-	-	S	106
VUE-1-32L-1-50K	10494	99	S	11766	111	S	8310	78	S	10812	102	S	10547	100	S	10918	103	S	10653	100	S	10706	101	S	-	-	S	106
VUE-1-48L-53-30K	6916	91	S	8208	108	S	5320	70	S	7600	100	S	6840	90	S	7448	98	S	7197	94	S	7524	99	S	-	-	S	76
VUE-1-48L-53-40K	7144	94	S	8284	109	S	5650	74	S	7676	101	S	7220	95	S	7676	101	S	7372	97	S	7600	100	S	-	-	S	76
VUE-1-48L-53-50K	7524	99	S	8436	111	S	5980	78	S	7752	102	S	7562	100	S	7828	103	S	7638	100	S	7676	101	S	-	-	S	76
VUE-1-48L-7-30K	9464	91	S	11232	108	S	7280	70	S	10400	100	S	9412	90	S	10192	98	S	9828	94	S	10296	99	S	-	-	S	104
VUE-1-48L-7-40K	9776	94	S	11336	109	S	7700	74	S	10504	101	S	9880	95	S	10504	101	S	10140	97	S	10400	100	S	-	-	S	104
VUE-1-48L-7-50K	10296	99	S	11544	111	S	8165	78	S	10608	102	S	10369	100	S	10712	103	S	10452	100	S	10504	101	S	-	-	S	104
VUE-1-48L-1-30K	14196	91	S	16848	108	S	10920	70	S	15600	100	S	14042	90	S	15288	98	S	14664	94	S	15444	99	S	-	-	S	156
VUE-1-48L-1-40K	14664	94	S	17004	109	S	11544	74	S	15756	101	S	14821	95	S	15756	101	S	15192	97	S	15600	100	S	-	-	S	156
VUE-1-48L-1-50K	15444	99	S	17316	111	P	12168	78	S	15912	102	S	15523	100	S	16068	103	S	15678	100	S	15756	101	S	-	-	S	156
VUE-1-64L-53-30K	9282	91	S	11016	108	S	7140	70	S	10200	100	S	9180	90	S	9996	98	S	9588	94	S	10098	99	S	-	-	S	102
VUE-1-64L-53-40K	9588	94	S	11118	109	S	7546	74	S	10302	101	S	9588	94	S	10302	101	S	9894	97	S	10200	100	S	-	-	S	102
VUE-1-64L-53-50K	10098	99	S	11322	111	S	7956	78	S	10404	102	S	10098	99	S	10506	103	S	10251	100	S	10302	101	S	-	-	S	102
VUE-1-64L-7-30K	12376	91	S	14588	108	S	9520	70	S	13600	100	S	12240	90	S	13328	98	S	12852	94	S	13464	99	S	-	-	S	136
VUE-1-64L-7-40K	12784	94	S	14824	109	S	10064	74	S	13736	101	S	12784	94	S	13736	101	S	13232	97	S	13600	100	S	-	-	S	136
VUE-1-64L-7-50K	13464	99	S	15096	111	S	10608	78	S	13872	102	S	13464	99	S	14008	103	S	13600	100	S	13736	101	S	-	-	S	136
VUE-1-64L-1-30K	18655	91	S	22140	108	S	14350	70	S	20500	100	S	18553	90	S	20090	98	S	19065	93	S	20295	99	S	-	-	S	205
VUE-1-64L-1-40K	19270	94	S	22345	109	S	15170	74	S	20705	101	S	19271	94	S	20705	101	S	19475	95	S	20500	100	S	-	-	S	205
VUE-1-64L-1-50K	20295	99	S	22755	111	P	15990	78	S	20910	102	S	20295	99	S	21115	103	S	20500	100	S	20705	101	S	-	-	S	205
VUE-2-80L-53-30K	23933	91	S	28404	108	S	18410	70	S	26826	102	S	23670	90	S	25774	98	S	25090	95	S	26563	101	S	-	-	S	263
VUE-2-80L-1-40K	24722	94	S	28667	109	S	19462	74	S	27089	103	S	24722	94	S	26563	101	S	26221	99	S	26826	102	S	26826	102	S	263
VUE-2-80L-1-50K	26037	99	S	29193	111	S	20514	78	S	27352	104	S	26037	99	S	27089	103	S	27089	103	S	27089	103	S	27615	105	S	263
VUE-2-96L-1-30K	28756	91	S	34128	108	S	21943	70	S	32232	102	S	28440	90	S	30968	98	S	30241	95	S	31916	101	S	-	-	S	316
VUE-2-96L-1-40K	29704	94	S	34444	109	S	23385	74	S	32548	103	S	29705	94	S	31916	101	S	31474	99	S	32232	102	S	32232	102	S	316
VUE-2-96L-1-50K	31284	99	S	35076	111	S	24649	78	S	32864	104	S	31285	99	S	32548	103	S	32548	103	S	32548	103	S	33180	105	S	316
VUE-3-112L-1-30K	33306	91	S	39528	108	S	25621	70	S	37332	102	S	32757	90	S	35868	98	S	34770	95	S	36966	101	S	-	-	S	366
VUE-3-112L-1-40K	34404	94	S	39894	109	S	27085	74	S	37698	103	S	34222	94	S	36966	101	S	36234	99	S	37332	102	S	37332	102	S	366
VUE-3-112L-1-50K	36234	99	S	40526	111	S	28549	78	S	38064	104	S	36235	99	S	37698	103	S	37698	103	S	37698	103	S	38430	105	S	366
VUE-3-128L-1-30K	37219	91	S	44172	108	S	28631	70	S	41718	102	S	36811	90	S	40082	98	S	39060	95	S	41309	101	S	-	-	S	409
VUE-3-128L-1-40K	38446	94	S	44581	109	S	30267	74	S	42127	103	S	38447	94	S	41309	101	S	40491	99	S	41718	102	S	41718	102	S	409
VUE-3-128L-1-50K	40491	99	S	45399	111	S	31903	78	S	42536	104	S	40288	99	S	42127	103	S	41718	102	S	42127	103	S	42945	105	S	409
VUE-3-144L-1-30K	41678	91	S	49464	108	S	32063	70	S	46716	102	S	41222	90	S	44884	98	S	43810	95	S	46258	101	S	-	-	S	458
VUE-3-144L-1-40K	43052	94	S	49922	109	S	33893	74	S	47174	103	S	42825	94	S	46258	101	S	45342	99	S	46716	102	S	46716	102	S	458
VUE-3-144L-1-50K	45342	99	S	50838	111	S	35725	78	S	47632	104	S	45344	99	S	47174	103	S	46716	102	S	47174	103	S	48090	105	S	458
VUE-3-160L-1-30K	45955	91	S	54540	108	S	35351	70	S	51510	102	S	45450	90	S	49490	98	S	47975	95	S	51005	101	S	-	-	S	505
VUE-3-160L-1-40K	47470	94	S	55045	109	S	37370	74	S	52015	103	S	47470	94	S	51005	101	S	50248	99	S	51510	102	S	51510	102	S	505
VUE-3-160L-1-50K	49995	99	S	56055	111	S	39390	78	S	52520	104	S	49996	99	S	52015	103	S	52015	103	S	52015	103	S	53025	105	S	505
VUE-3-176L-1-30K	50141	91	S	59508	108	S	38573	70	S	56202	102	S	49592	90	S	53998	98	S	52345	95	S	55651	101	S	-	-	S	551
VUE-3-176L-1-40K	51794	94	S	60059	109	S	40775	74	S	56753	103	S	51796	94	S	55822	101	S	54549	98	S	56202	102	S	56202	102	S	551
VUE-3-176L-1-50K	54549	99	S	61161	111	S	42978	78	S	57304	104	S	54551	99	S	56753	103	P	56753	103	S	56753	103	S	57855	105	S	551
VUE-3-192L-1-30K	54054	91	S	64152	108	S	41581	70	S	60588	102	S	53462	90	S	58212	98	S	56430	95	S	59994	101	S	-	-	S	594
VUE-3-192L-1-40K	55836	94	S	64746	109	S	43956	74	S	61182	103	S	55838	94	S	59994	101	S	58212	98	S	60588	102	S	60588	102	S	594
VUE-3-192L-1-50K	58806	99	S	69344	111	S	46332	78	S	61776	104	S	58808	99	S	61182	103	S	60588	102	S	61182	103	S	62770	105	S	594

**DLC* S= Standard P= Premium

L70 DEPRECIATION
483,000 Hours (@77°F/ 25°C)

POPULAR MOUNTING OPTIONS

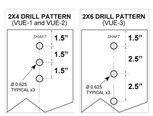
Direct Wall Mount

Wall Mount (Includes 6" Arm)

Trunnion Mount

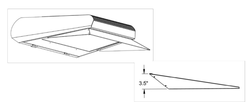
Knuckle Mount

Direct Pole Mount



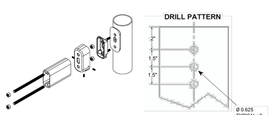
SHIELD OPTIONS

HOUSE SIDE SHIELD (HSS)

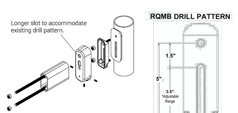


FRONT SIDE SHIELD (FSS)

OPTIONAL
Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures.



QUICK MOUNT BRACKET (QMB)
DIRECT POLE (DP6/DP11)



RETROFIT QUICK MOUNT BRACKET (RQMB)

NLS LIGHTING
701 Kingshill Place, Carson, CA 90746
Call Us Today (310) 341-2037
nlslighting.com

ADVANTAGE 7 POLE 16 LIGHT SYSTEM

Calculation Summary						
Label	**Units**	**Avg**	**Max**	**Min**	**Avg/Min**	**Max/Min**
CalcPts	Fc	64.77	106	9	7.20	11.78
PPA	Fc	72.62	106	43.0	1.69	2.47
Playing Surface	Fc	72.69	106	46.0	1.58	2.30

DOUBLE COURT 108X120

Photometric Study#
CB081610LT4
Easton Racquet Club
Lee Tennis
Date:08/16/10

ADVANTAGE 750PS
24 FOOT MOUNTING
5' ARMS

READINGS AT 3' AG

INDEPENDENT
TEST REPORT
LL 0209-05A

Luminaire Schedule					
Symbol	**Qty**	**Arrangement**	**Lumens**	**LLF**	**Description**
	6	2 @ 90 DEGREES	82000	1.000	Advantage ADV-2-T4T-750PS- 2@90° @ 24' mtg. ht.
	1	4 @ 90 DEGREES	82000	1.000	Advantage ADV-2-T4T-750PS- 4@90° @ 24' mtg. ht.

Lighting Performance is calculated using Independent Test Lab testing data. The drawing above shows initial lumens only. All fixtures experience light loss over time. We use a light loss factor of .8 to calculate maintained lumens. Maintained lumens are what you will experience after the lights burn in and will be lower than the initial lumens shown above. If you would like to see a photometric drawing using maintained lumens please contact us at hartu@leetennis.com

LGT 001

EXISTING TENNIS COURT
ORIGINAL PHOTOMETRICS
N.T.S.

NOTE:
1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION, BY CALLING 1-800-922-4455.

NO.	DATE	DESCRIPTION	REVISION	DRAWN BY	CHECKED BY

DYMAR
800 Main Street South · Southbury, CT. 06488 · (203) 267-1046 · Fax (203) 267-1547
ENGINEERING · PLANNING · SURVEYING · DEVELOPMENT SERVICES

DRAWINGS TO BE USED FOR LAND USE SUBMISSIONS ONLY
NOT FOR CONSTRUCTION

CLIENT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

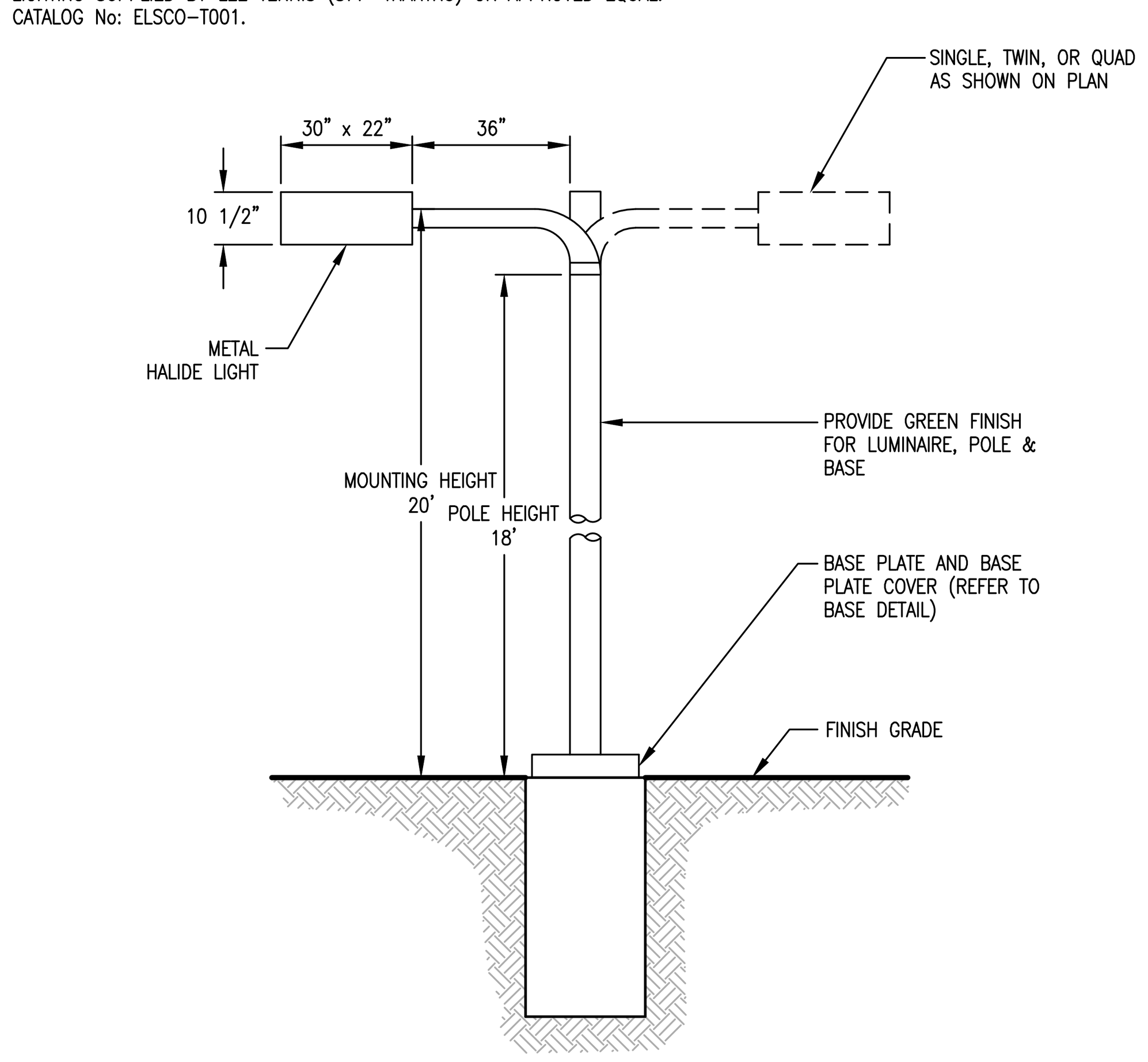
TITLE: Tennis Courts & Pickle Ball Courts
Site Lighting Cut Sheets

1 2

DATE: 02/15/21
SCALE: AS NOTED
DESIGNED BY: M.E.L.
DRAWN BY: C.C.B.
CHECKED BY: M.E.L.
JOB NO: 00335
DRAWING NO: C-7B

F:\00335\Civil\Dwg\Pickle Ball Drawings\007B.dwg, 7/8, 4/1/2021 1:40:30 PM, gemus, AutoCAD PDF (Web and Mobile).pc3, ARCH full bleed D (24.00 x 36.00 Inches), 1:1

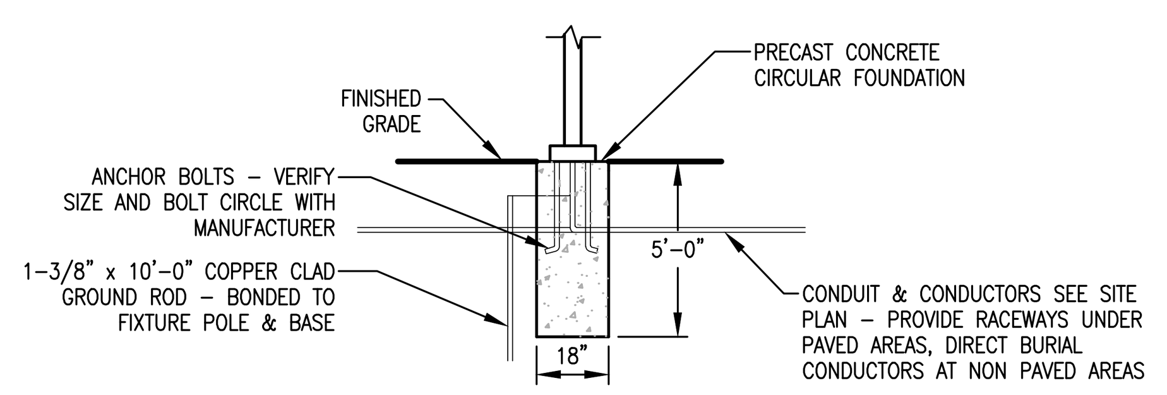
NOTES:
1. LIGHTING SUPPLIED BY LEE TENNIS (877-4HARTRU) OR APPROVED EQUAL.
2. CATALOG No: ELSCO-T001.



ELEVATION

LGT 130C — TENNIS COURT LIGHTING POLE & LUMINAIRE DETAIL

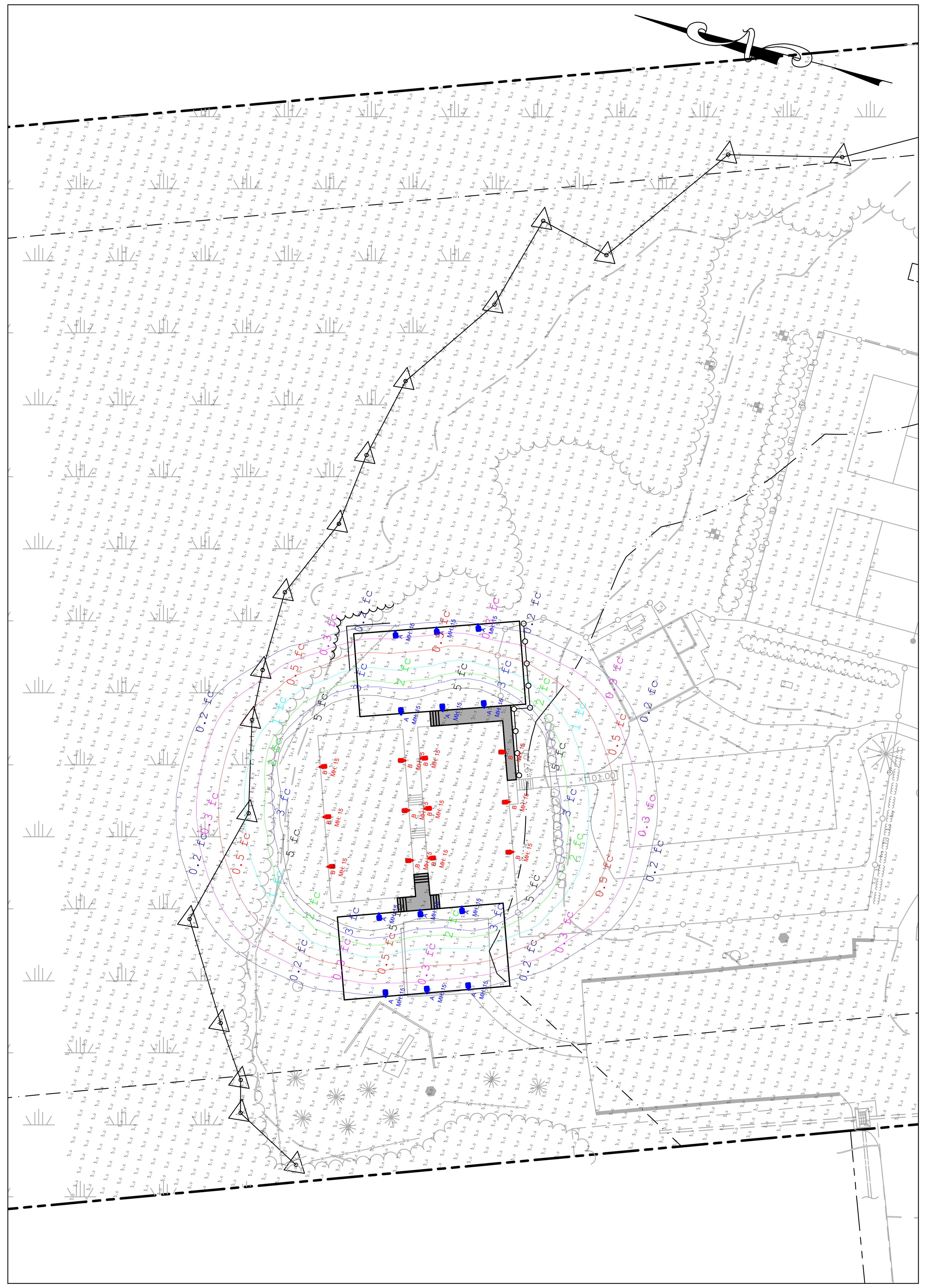
N.T.S.



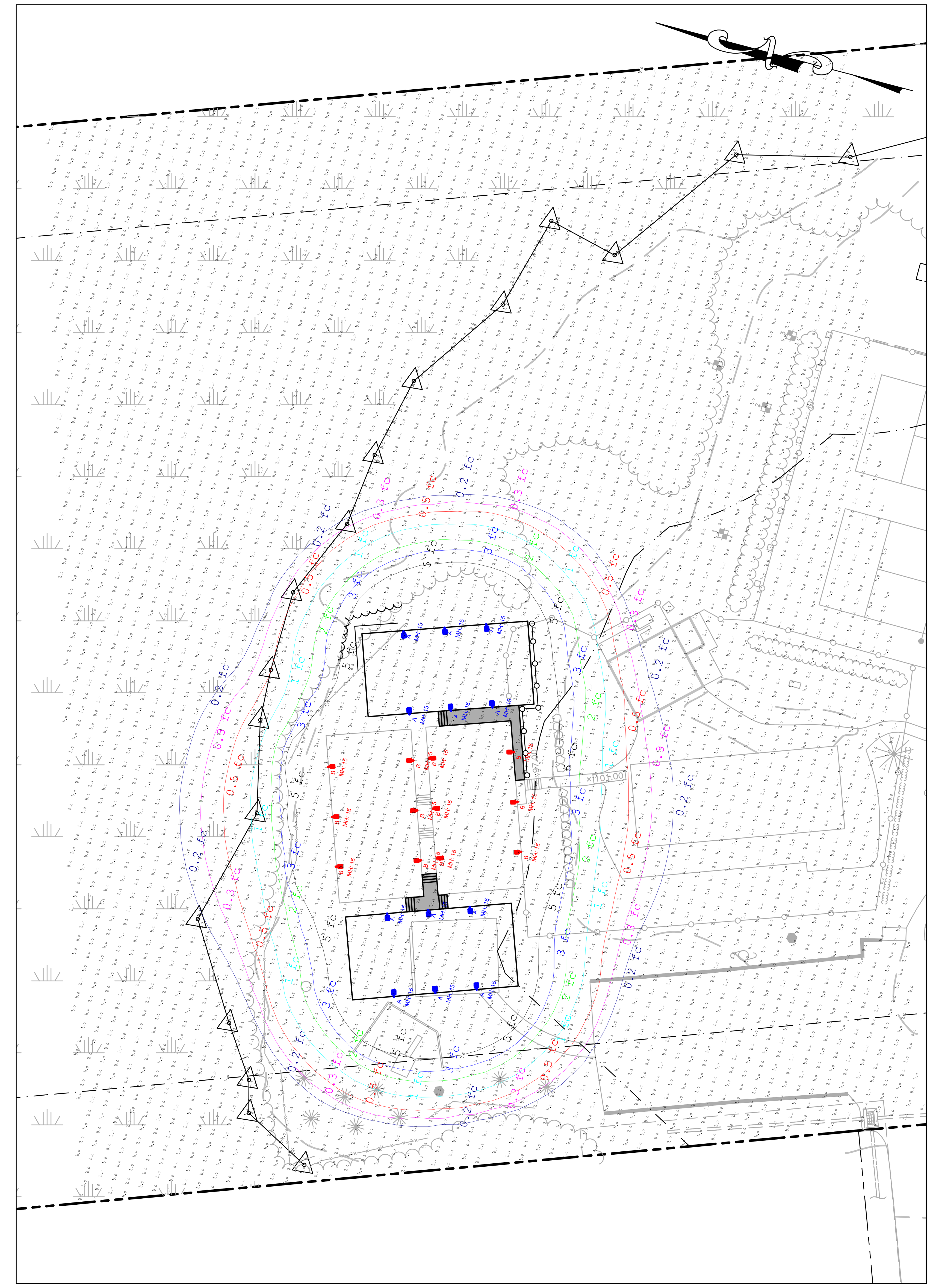
LGT 184B — SITE LIGHTING POLE FOUNDATION

N.T.S.

NOTES:
1. LUMINAIRES MOUNTED AT 15' ABOVE FINISHED DECK.
2. MAINTAINED ILLUMINANCE @ 90% LUMEN MAINTENANCE GROUND REFLECTANCE = 7%.
3. HORIZONTAL ILLUMINANCE MEASURED AT GRADE, VERTICAL ILLUMINANCE MEASURED AT 5' ABOVE GRADE.
4. ALL ILLUMINANCE MEASURED IN FOOT-CANDLES.



EXISTING PADDLE COURT LIGHTING



ALL PADDLE COURT LIGHTING

LUMINAIRE SCHEDULE

TAG	QTY	DESCRIPTION	LUM. WATTS	DELIVERED LUMENS	LLF
A	12	AREAFLD1A145UNVD840T5BZ WITH VISOR	145.5	N/A	0.90
B	12	LSMT-2CXBT4TF	280.0	N/A	0.90

CALCULATION SUMMARY

LABEL	CALC. TYPE	UNITS	AVG.	MAX.	MIN.	AVG/MIN	MAX./MIN.
GROUND	ILLUMINANCE	FC	2.99	90.7	0.0	N/A	N/A
WETLANDS	ILLUMINANCE	FC	0.37	2.6	0.0	N/A	N/A

NOTE:
1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION, BY CALLING 1-800-922-4455.

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	CHECKED BY

DYMAR
800 Main Street South · Southbury, CT 06488 · (203) 267-1046 · Fax (203) 267-1547
ENGINEERING · PLANNING · SURVEYING · DEVELOPMENT SERVICES

DRAWINGS TO BE USED FOR LAND USE SUBMISSIONS ONLY
NOT FOR CONSTRUCTION

CLIENT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Paddle Board Courts Photometric and Lighting Details

DATE: 02/15/21
SCALE: 1"=30'
DESIGNED BY: M.E.L.
DRAWN BY: C.C.B.
CHECKED BY: M.E.L.
JOB NO: 00335
DRAWING NO: C-7C

DesignLights Consortium® Qualified. Please go to www.designlights.org for the current Qualified Products List. Further details about qualified models may be found under Family Models.

Catalog Number	
Project	Type

High Lumen Output
Scimitar LED Area Light

LSMT SERIES

FEATURES & SPECIFICATIONS

APPLICATION — The high lumen output luminaire is designed to be a replacement for HID fixtures up to 1000W. It is optimal for lighting applications where long life, low maintenance, and consistent color rendering is required. Areas with limited accessibility due to fixture location or where heavy pedestrian or vehicle traffic makes maintenance difficult are ideal applications. The high wattage/lumen output allows the fixture to be used for parking, restaurant, quick service, shopping centers or sports lighting applications.

CONSTRUCTION — The heavy duty housing is constructed of cast aluminum with heat dissipating fins. The optical assemblies are sealed in place using a silicone gasket for weather tight protection. Modular LED system for ease of maintenance. ETL listed for wet locations (IP64). Additional IP66 rating available upon request. Each fixture comes standard with preps to accomodate advanced wireless control, management and reporting systems for outdoor lighting.

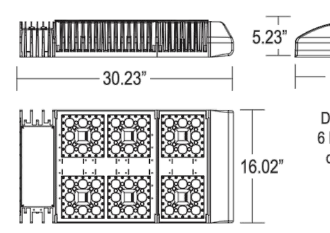
FINISH — A corrosion-resistant black E-Coat layer that forms a uniform and all-encompassing protective barrier is applied to the fixtures prior to electrostatically applying a super durable powder coat finish. Standard colors available: Black, Bronze, US Green, White. Custom colors available upon request.

OPTICAL SYSTEM — Made with a state of the art UV stabilized acrylic high performance refractive optical assemblies that use high transmicity materials to achieve precise photometric distributions. Available in Type II, III, IV, IV Automotive, Automotive Frontline Wide, IV Tennis, V Narrow, V Medium and V Wide beam configurations. Optics may be ordered rotated 90 degrees for perimeter lighting or walkway applications (optics are not field rotatable). The full cutoff fixture is Star Light Friendly (meets or exceeds Dark Sky requirements) in the horizontal position.

ELECTRICAL SYSTEM — Available in up to a 8 brick LED system in 5000K-70 CRI Cool White (+/- 500K) or 4100K-70 CRI Neutral White color temperatures propagated with CREE® XLamp XHP70 LED's. Consult factory for high CRI (90+) model availability. Available with 100-300V 50/60 Hz Class II power supply. LED's rated for over 50,000 hours at 25°C ambient temperature. 347V~480V input option available. 0-10V dimming. Built-in surge protection up to 10 kV. Built-in Active PFC Function >95%/Full load. LED Power Supply conforms to UL8750 standards and is IP65 rated for wet locations.

MOUNTING — The fixture was designed to utilize an innovative die cast decorative arm that allows the fixture to easily mount to almost any existing bolt pattern or new pole. Additional mounting options include a quick mount with 8" straight arm (for use on fixtures with no more than 4 LED bricks) and a 2" adjustable slip fitter for tenon mounting (for use as a downlight only). Additional mounting options may be available for custom applications.

LISTINGS — LED Power Supply listed for wet locations (IP65). LED bricks ETL listed for wet locations (IP64). Meets US and Canadian safety standards. -40°C to 50°C ambient operation. RoHS Compliant.



Dimensions shown are for 6 Brick Unit Only. Mounting options must be ordered separately.

Series	Housing Height	Length & Width	EPA (ft²)
LSMT	5.23"	37.23" x 16.02"	1.4

ORDERING INFORMATION

Example: **LSMT8X6T5WH1-BZ**

Choose the bold face options for the appropriate luminaire configuration for your application and enter on the line above each fixture attribute. Accessories may be factory installed, depending on the particular accessory chosen, but still be ordered as a separate line item.

LSMT

Series	# of Bricks	Color Temp	# LED's per Brick	Optics	Drive Current	Voltage	Options	Finish
LSMT	**1** 1 Brick **2** 2 Brick **4** 4 Brick **6** 6 Brick	**C** Cool White (5000K) **N** Neutral White (4100K)	**X** 8 XHP70 LEDs	**T2** Type II **T3** Type III **T4** Type IV **T4A** Type IV Automotive **FAW** Frontline Automotive Wide **T4T** Type IV Tennis **T5N** Type V Narrow **T5M** Type V Medium **T5W** Type V Wide	**F** 1400 mA	**1** Multi-Volt[1] **2** 347~480V	**L** Left Rotated Optics **R** Right Rotated Optics (Leave Blank for standard optics)	**BZ** Bronze **BK** Black **GR** US Green **WH** White **SP** Special[2]

Accessories (Order as separate line items)

SDARM	Die Cast Decorative Arm Mount (Square Pole, 1.4 EPA)
SDARM-R	Die Cast Decorative Arm Mount (Round Pole, 1.4 EPA)
QMSCM[3]	Quick Mount with 8" SSA-M Straight Arm (4 Brick Max)
2AF	2" Adjustable Slip Fitter
S213[4]	Angled Back Light Shield
PCR7[5]	7-Pin Twist-Lock Photocell Receptacle ANSI C136.41 and Receptacle Shorting Cap
PC2	480V Twist-Lock Photocell
PC6	Multi-Tap (105-285V) Twist-Lock Photocell
IP66[6]	Additional IP66 Fixture Rating

NOTES
1 Multi-Volt is an auto ranging power supply from 100V to 300V input.
2 Custom RAL color matching is available. Contact your sales representative for additional information.
3 QMSCM Quick Mount only available for fixtures with up to 4 bricks.
4 Order one per LED brick. Field installed.
5 Photocell Receptacle must be installed at the factory. No field installation.
6 Additional IP66 rating may not be changed once production has begun on the fixtures.

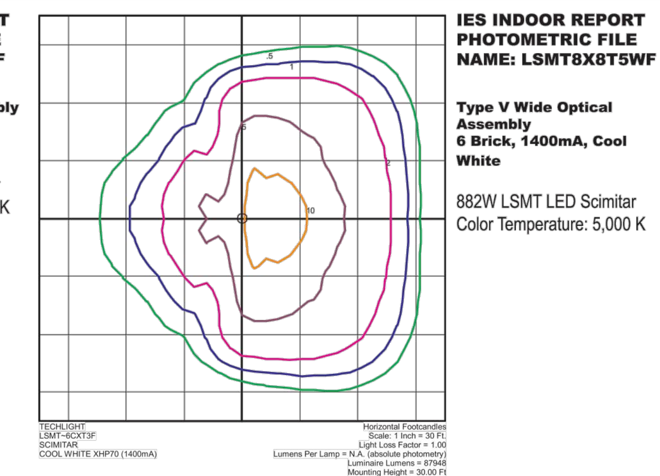
LSMT Scimitar High Lumen Output Area Light

PHOTOMETRICS

IES INDOOR REPORT PHOTOMETRIC FILE NAME: LSMTXC8T3F

Type III Optical Assembly 6 Brick, 1400mA, Cool White

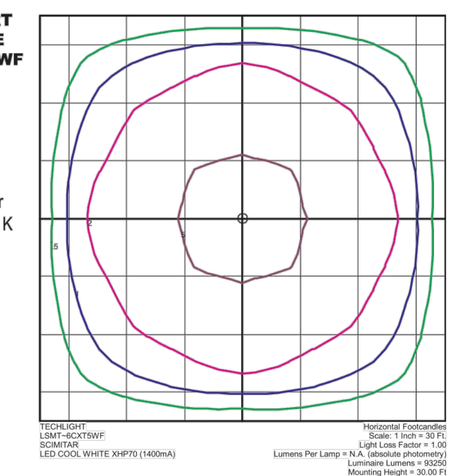
882W LSMT LED Scimitar
Color Temperature: 5,000 K



IES INDOOR REPORT PHOTOMETRIC FILE NAME: LSMT8X8T5WF

Type V Wide Optical Assembly 6 Brick, 1400mA, Cool White

882W LSMT LED Scimitar
Color Temperature: 5,000 K



EPA RATINGS (ft²)

ARM MOUNT			
Fixture Configuration	1 or 2 Brick EPA's[1] SDARM	4 Brick EPA's[1] SDARM	6 Brick EPA's[1] SDARM
1 @ 90°	1.0	1.3	1.6
2 @ 180°	2.0	2.6	3.2
2 @ 90°	1.9	2.4	3.0
3 @ 90°	2.5	3.3	4.0
4 @ 90° or 4 @ 70°	3.5	4.5	5.5

FIXTURE WEIGHTS (APPROX)			
Fixture Configuration	1 or 2 Brick	4 Brick	6 Brick
Weight (lbs)	23 lbs	35 lbs	47 lbs

MOUNTING ACCESSORIES

SDARM, SDARM-R
Die Cast Decorative Arm Mount

QMSCM[2]
Quick Mount with 8" SSA-M Straight Arm (4 Brick Max)

2AF
2" Adjustable Slip Filter

ADDITIONAL FIXTURE ACCESSORIES

S213[3]
Angled Back Light Shield

PCR7
7-Pin Twist-Lock Photocell Receptacle ANSI C136.41 and Receptacle Shorting Cap

PC2
480V Twist-Lock Photocell
PC6
Multi-Tap (105-285V) Twist-Lock Photocell

NOTES
1 EPA's shown include both the fixture and the mounting apparatus.
2 QMSCM Quick Mount only available for fixtures with up to 4 bricks.
3 Order one per LED brick. Field installed.

LSMT Scimitar High Lumen Output Area Light

LUMINAIRE CHARACTERISTICS

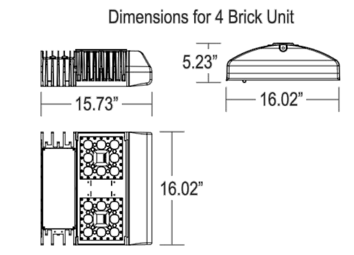
1400 mA Drive Current

# of LED Bricks	Drive Current	Color Temp	Delivered Lumens TYPE II	TYPE III	TYPE IV	TYPE 4A	TYPE 4T	FAW	TYPE 5N	TYPE 5M	TYPE 5W	System Wattage	L70 @ 25°C	Amperage Draw 120V	208V	240V	277V
1 BRICK	1400 mA	Cool White (5000K)	14893	14658	16407	16062	15418	15477	17137	17313	15542	147	>50K	1.23 A	0.71 A	0.62 A	0.54 A
2 BRICK	1400 mA	Cool White (5000K)	29783	29316	32814	32124	30836	30955	34274	34626	31084	294	>50K	2.45 A	1.42 A	1.23 A	1.07 A
4 BRICK	1400 mA	Cool White (5000K)	59571	58631	65628	64247	61672	61909	68548	69252	62167	588	>50K	4.90 A	2.83 A	2.45 A	2.13 A
6 BRICK	1400 mA	Cool White (5000K)	89357	87947	98442	96371	92508	92864	102823	103877	93251	882	>50K	7.35 A	4.25 A	3.68 A	3.19 A
1 BRICK	1400 mA	Neutral White (4100K)	14320	14094	15776	15444	14825	14882	16478	16647	14944	147	>50K	1.23 A	0.71 A	0.62 A	0.54 A
2 BRICK	1400 mA	Neutral White (4100K)	28640	28188	31552	30888	29650	29764	32956	33294	29888	294	>50K	2.45 A	1.42 A	1.23 A	1.07 A
4 BRICK	1400 mA	Neutral White (4100K)	57280	56376	63104	61776	59300	59528	65913	66588	59776	588	>50K	4.90 A	2.83 A	2.45 A	2.13 A
6 BRICK	1400 mA	Neutral White (4100K)	85920	84564	94656	92664	88950	89295	98868	99882	89664	882	>50K	7.35 A	4.25 A	3.68 A	3.19 A

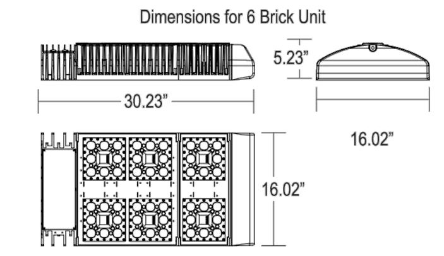
ADDITIONAL FIXTURE DIMENSIONS

Dimensions shown are for fixture bodies only. Mounting options must be ordered separately.

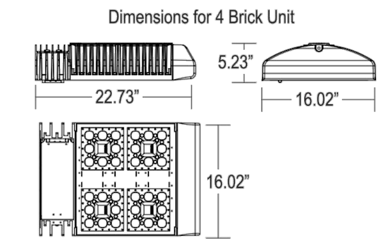
Dimensions for 4 Brick Unit



Dimensions for 6 Brick Unit



Dimensions for 4 Brick Unit



WARNING: Maintenance performed including the replacement of LED bricks while power is still supplied to the lumenaire may result in system failures and will void the warranty.

TECHLIGHT

Techlight, Inc.
2707 Satsuma Drive
Dallas, TX, 75229
Phone: 214-350-0591, 800-225-0727, Fax: 214-350-9137
www.techlight.com

www.sylvania.com/luminaires

SYLVANIA Luminaires

Area Light

Catalog #
Type
Project
Notes
Date

Application

The Area Light luminaires are the perfect alternative to traditional lighting technologies offering a variety of solutions to illuminate parking lots, parking garage roofs and general area lighting.

Features

- Integrated photocontrol receptacle compatible with up to 7 pin photosensors
- Slim design with multiple mounting and distribution options
- Robust fixture with IP66 and 3G Vibration rating
- Energy savings up to 68%
- Offered in 70, 110, 145 and 220 watts
- CRI 80+
- 4000K and 5000K color temperature
- up to 130 LPW
- Type III, IV, V distribution
- UV stabilized polycarbonate lens

Electrical

- 120-277 VAC or 347-480 VAC options
- Power factor ≥90%
- THD ≤20%
- 0-10V dimmable
- Constant current LED driver with 4kV surge suppression

Rated Life

- ≥140,000 hours (L_{70})

Warranty

- Standard 5-year luminaire warranty (LEDLUM001)

Ambient Operating Range

- -40°F to +104°F (-40°C to +40°C)

Fixture Certifications and Listings

- cULus listed to UL1598 standards for wet locations and IP66 rated
- Driver meets UL1310 and UL48 Class I

Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings
100W HPS	120	70	42%
100W MH	130	70	46%
150W HPS	170	70	59%
150W MH	188	70	63%
175W MH	210	70	67%
175W MH	210	110	48%
250W HPS	295	110	63%
250W MH	290	110	62%
250W HPS	295	145	51%
250W MH	290	145	50%
320W MH	370	145	61%
400W HPS	460	145	68%
400W MH	450	145	68%
750W MH	820	220	73%
750W HPS	840	220	74%
1000W MH	1080	220	80%
1000W HPS	1100	220	80%

Installation

- Fixture mounting options include: square pole, round pole, wall mount, trunnion mounting, or knuckle tenon mount for 2-1/8"-2-3/8". Flood light mounting up to 45° angle. Do not mount lens facing upwards. Mounting accessories sold separately.

LEDLUM019R6 9-18

SYLVANIA

Ordering Guide

AREAFLD	1A	/	XXX	UNV	D	8	XX	/	XX	/	BZ	/	X
Product Name AREAFLD	Generation 1A		Wattage 070 = 70W 110 = 110W 145 = 145W 220 = 220W	Voltage UNV = 120-277V HUV = 347-480V	Dimming D = 0-10V	CRI 8 = >80	Color Temp (CCT) 40 = 4000K 50 = 5000K		Distribution T3 = Type III T4 = Type IV T5 = Type V		Color/Finish BZ = Bronze		Options Blank = No Options D = Motion/ Daylight Sensor

Ordering Information

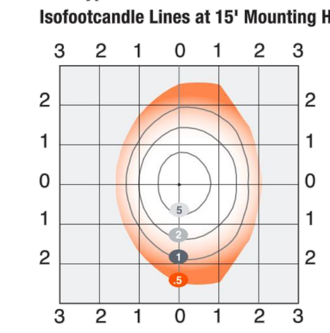
Item Number	Ordering Abbreviation	Wattage (W)	Input Voltage	Dimming	CRI	Color Temp (CCT)	Distribution	Total Fixture Lumens	DLC	LPW**	Options	BUG Rating
70956	AREAFLD1A/070UNVD840/T3/BZ	70	120-277	0-10V	>80	4000K	Type III	8,100	Prm	116	–	B2-U2-G2
71078	AREAFLD1A/070UNVD840/T4/BZ	70	120-277	0-10V	>80	4000K	Type IV*	8,200	Prm	117	–	B2-U2-G2
71079	AREAFLD1A/070UNVD840/T5/BZ	70	120-277	0-10V	>80	4000K	Type V*	8,500	Prm	121	–	B2-U2-G1
71153	AREAFLD1A/070UNVD850/T3/BZ	70	120-277	0-10V	>80	5000K	Type III	8,600	Prm	123	–	B2-U2-G2
71170	AREAFLD1A/070UNVD850/T4/BZ	70	120-277	0-10V	>80	5000K	Type IV*	8,700	Prm	125	–	B2-U2-G2
71171	AREAFLD1A/070UNVD850/T5/BZ	70	120-277	0-10V	>80	5000K	Type V*	9,000	Prm	130	–	B2-U2-G1
60386	AREAFLD1A/070HUVD840/T3/BZ	70	347-480	0-10V	>80	4000K	Type III	8,100	Prm	116	–	B2-U2-G2
60387	AREAFLD1A/070HUVD840/T4/BZ	70	347-480	0-10V	>80	4000K	Type IV*	8,200	Prm	117	–	B2-U2-G2
60388	AREAFLD1A/070HUVD840/T5/BZ	70	347-480	0-10V	>80	4000K	Type V*	8,500	Prm	121	–	B2-U2-G1
60389	AREAFLD1A/070HUVD850/T3/BZ	70	347-480	0-10V	>80	5000K	Type III	8,600	Prm	123	–	B2-U2-G2
60390	AREAFLD1A/070HUVD850/T4/BZ	70	347-480	0-10V	>80	5000K	Type IV*	8,700	Prm	125	–	B2-U2-G2
60391	AREAFLD1A/070HUVD850/T5/BZ	70	347-480	0-10V	>80	5000K	Type V*	9,000	Prm	130	–	B2-U2-G1
60037	AREAFLD1A/110UNVD840/T3/BZ	110	120-277	0-10V	>80	4000K	Type III	12,600	Prm	117	–	B3-U2-G2
60038	AREAFLD1A/110UNVD840/T4/BZ	110	120-277	0-10V	>80	4000K	Type IV*	12,700	Prm	117	–	B3-U2-G2
60039	AREAFLD1A/110UNVD840/T5/BZ	110	120-277	0-10V	>80	4000K	Type V*	13,300	Prm	123	–	B3-U2-G1
60040	AREAFLD1A/110UNVD850/T3/BZ	110	120-277	0-10V	>80	5000K	Type III	13,300	Prm	124	–	B3-U2-G3
60041	AREAFLD1A/110UNVD850/T4/BZ	110	120-277	0-10V	>80	5000K	Type IV*	13,300	Prm	125	–	B3-U2-G2
60042	AREAFLD1A/110UNVD850/T5/BZ	110	120-277	0-10V	>80	5000K	Type V*	13,300	Prm	124	–	B3-U2-G2
60392	AREAFLD1A/110HUVD840/T3/BZ	110	347-480	0-10V	>80	4000K	Type III	12,600	Prm	117	–	B3-U2-G2
60393	AREAFLD1A/110HUVD840/T4/BZ	110	347-480	0-10V	>80	4000K	Type IV*	12,700	Prm	117	–	B3-U2-G1
60394	AREAFLD1A/110HUVD840/T5/BZ	110	347-480	0-10V	>80	4000K	Type V*	13,300	Prm	123	–	B3-U2-G3
60395	AREAFLD1A/110HUVD0850/T3/BZ	110	347-480	0-10V	>80	5000K	Type III	13,300	Prm	124	–	B3-U2-G3
60396	AREAFLD1A/110HUVD850/T4/BZ	110	347-480	0-10V	>80	5000K	Type IV*	13,300	Prm	125	–	B3-U2-G2
60397	AREAFLD1A/110HUVD850/T5/BZ	110	347-480	0-10V	>80	5000K	Type V*	13,300	Prm	124	–	B3-U2-G2
60031	AREAFLD1A/145UNVD840/T3/BZ	145	120-277	0-10V	>80	4000K	Type III	17,000	Prm	116	–	B3-U2-G3
60032	AREAFLD1A/145UNVD840/T4/BZ	145	120-277	0-10V	>80	4000K	Type IV*	17,100	Prm	117	–	B3-U2-G3
60033	AREAFLD1A/145UNVD840/T5/BZ	145	120-277	0-10V	>80	4000K	Type V*	17,900	Prm	122	–	B4-U2-G2
60034	AREAFLD1A/145UNVD850/T3/BZ	145	120-277	0-10V	>80	5000K	Type III	17,000	Prm	117	–	B3-U2-G3
60035	AREAFLD1A/145UNVD850/T4/BZ	145	120-277	0-10V	>80	5000K	Type IV*	17,000	Prm	117	–	B3-U2-G3
60036	AREAFLD1A/145UNVD850/T5/BZ	145	120-277	0-10V	>80	5000K	Type V*	17,900	Prm	123	–	B4-U2-G2
60380	AREAFLD1A145HUVD840T3BZ	145	347-480	0-10V	>80	4000K	Type III	17,000	Prm	116	–	B3-U2-G3
60381	AREAFLD1A145HUVD840T4BZ	145	347-480	0-10V	>80	4000K	Type IV*	17,100	Prm	117	–	B3-U2-G3
60382	AREAFLD1A145HUVD840T5BZ	145	347-480	0-10V	>80	4000K	Type V*	17,900	Prm	122	–	B4-U2-G2
60383	AREAFLD1A145HUVD850T3BZ	145	347-480	0-10V	>80	5000K	Type III	17,000	Prm	117	–	B3-U2-G3
60384	AREAFLD1A145HUVD850T4BZ	145	347-480	0-10V	>80	5000K	Type IV*	17,000	Prm	117	–	B3-U2-G3
60385	AREAFLD1A145HUVD850T5BZ	145	347-480	0-10V	>80	5000K	Type V*	17,900	Prm	123	–	B4-U2-G
60226	AREAFLD1A/220UNVD840/T3/BZ	220	120-277	0-10V	>80	4000K	Type III*	27,900	Prm	128	–	B4-U3-G3
60227	AREAFLD1A/220UNVD840/T4/BZ	220	120-277	0-10V	>80	4000K	Type V*	28,500	Prm	130	–	B4-U3-G3
60228	AREAFLD1A/220UNVD840/T5/BZ	220	120-277	0-10V	>80	4000K	Type V	29,000	Prm	130	–	B4-U3-G2
60229	AREAFLD1A/220UNVD850/T3/BZ	220	120-277	0-10V	>80	5000K	Type III*	27,900	Prm	128	–	B4-U3-G3
60230	AREAFLD1A/220UNVD850/T4/BZ	220	120-277	0-10V	>80	5000K	Type IV*	28,500	Prm	130	–	B4-U3-G3
60231	AREAFLD1A/220UNVD850/T5/BZ	220	120-277	0-10V	>80	5000K	Type V	29,000	Prm	130	–	B4-U3-G2
60232	AREAFLD1A/220HUVD840/T3/BZ	220	347-480	0-10V	>80	4000K	Type III*	27,900	Prm	128	–	B4-U3-G3
60233	AREAFLD1A/220HUVD840/T4/BZ	220	347-480	0-10V	>80	4000K	Type IV*	28,500	Prm	130	–	B4-U3-G3
60234	AREAFLD1A/220HUVD840/T5/BZ	220	347-480	0-10V	>80	4000K	Type VI	29,000	Prm	130	–	B4-U3-G2
60235	AREAFLD1A/220HUVD850/T3/BZ	220	347-480	0-10V	>80	5000K	Type III*	27,900	Prm	128	–	B4-U3-G3
60236	AREAFLD1A/220HUVD850/T4/BZ	220	347-480	0-10V	>80	5000K	Type IV*	28,500	Prm	130	–	B4-U3-G3
60237	AREAFLD1A/220HUVD850/T5/BZ	220	347-480	0-10V	>80	5000K	Type V	29,000	Prm	130	–	B4-U3-G2
60083	AREAFLD1A/070UNVD840/T3/BZ/D*	70	120-277	0-10V	>80	4000K	Type III	8,100	Prm	116	Sensor	B2-U2-G2
60084	AREAFLD1A/070UNVD840/T4/BZ/D*	70	120-277	0-10V	>80	4000K	Type IV*	8,200	Prm	117	Sensor	B2-U2-G2
60085	AREAFLD1A/070UNVD840/T5/BZ/D*	70	120-277	0-10V	>80	4000K	Type V*	8,500	Prm	121	Sensor	B2-U2-G2
60086	AREAFLD1A/070UNVD850/T3/BZ/D*	70	120-277	0-10V	>80	5000K	Type III	8,600	Prm	123	Sensor	B2-U2-G2
60087	AREAFLD1A/070UNVD850/T4/BZ/D*	70	120-277	0-10V	>80	5000K	Type IV*	8,700	Prm	125	Sensor	B2-U2-G1
60088	AREAFLD1A/070UNVD850/T5/BZ/D*	70	120-277	0-10V	>80	5000K	Type V*	9,000	Prm	130	Sensor	B3-U2-G1
60089	AREAFLD1A/110UNVD840/T3/BZ/D*	110	120-277	0-10V	>80	4000K	Type III	12,600	Prm	117	Sensor	B3-U2-G2
60090	AREAFLD1A/110UNVD840/T4/BZ/D*	110	120-277	0-10V	>80	4000K	Type IV*	12,700	Prm	117	Sensor	B3-U2-G2
60091	AREAFLD1A/110UNVD840/T5/BZ/D*	110	120-277	0-10V	>80	4000K	Type V*	13,300	Prm	123	Sensor	B3-U2-G1
60092	AREAFLD1A/110UNVD850/T3/BZ/D*	110	120-277	0-10V	>80	5000K	Type III	13,300	Prm	124	Sensor	B3-U2-G3
60093	AREAFLD1A/110UNVD850/T4/BZ/D*	110	120-277	0-10V	>80	5000K	Type IV*	13,300	Prm	125	Sensor	B3-U2-G2
60094	AREAFLD1A/110UNVD850/T5/BZ/D*	110	120-277	0-10V	>80	5000K	Type V*	13,300	Prm	124	Sensor	B3-U2-G3
60095	AREAFLD1A/145UNVD840/T3/BZ/D*	145	120-277	0-10V	>80	4000K	Type III	17,000	Prm	116	Sensor	B3-U2-G3
60096	AREAFLD1A/145UNVD840/T4/BZ/D*	145	120-277	0-10V	>80	4000K	Type IV*	17,100	Prm	117	Sensor	B4-U2-G2
60097	AREAFLD1A/145UNVD840/T5/BZ/D*	145	120-277	0-10V	>80	4000K	Type V*	17,900	Prm	122	Sensor	B3-U2-G3
60098	AREAFLD1A/145UNVD850/T3/BZ/D*	145	120-277	0-10V	>80	5000K	Type III	17,000	Prm	117	Sensor	B3-U2-G3
60099	AREAFLD1A/145UNVD850/T4/BZ/D*	145	120-277	0-10V	>80	5000K	Type IV*	17,000	Prm	117	Sensor	B3-U2-G3
60100	AREAFLD1A/145UNVD850/T5/BZ/D*	145	120-277	0-10V	>80	5000K	Type V*	17,900	Prm	123	Sensor	B3-U2-G3

*Made to order with lead time
**LPW per LM79 report

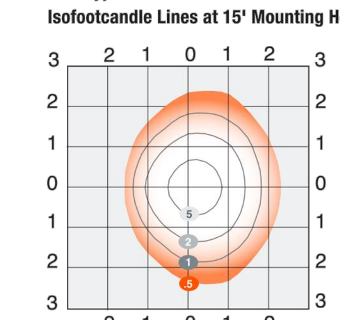
For further information and to learn more about utility rebates, contact your local SYLVANIA sales representative.

Photometrics

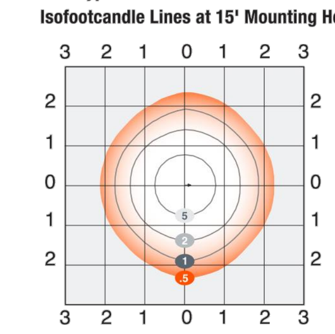
70W Type III Distribution Isofootcandle Lines at 15' Mounting Height



70W Type IV Distribution Isofootcandle Lines at 15' Mounting Height



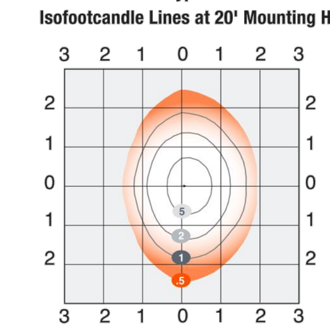
70W Type V Distribution Isofootcandle Lines at 15' Mounting Height



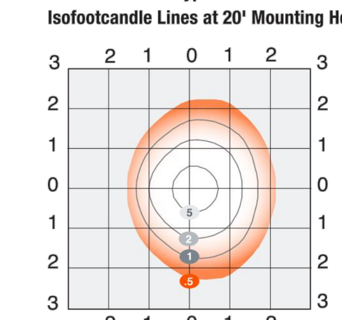
For other mounting heights apply the following multipliers:

Mounting Height	10'	12'	15'	18'	20'	25'
Multiplier	2.25	1.56	1.00	0.69	0.56	0.36

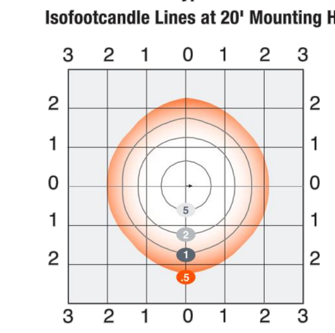
110W and 145W Type III Distribution Isofootcandle Lines at 20' Mounting Height



110W and 145W Type IV Distribution Isofootcandle Lines at 20' Mounting Height



110W and 145W Type V Distribution Isofootcandle Lines at 20' Mounting Height

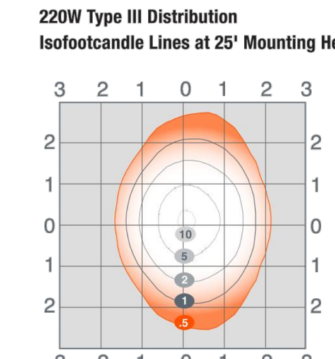


For other mounting heights apply the following multipliers:

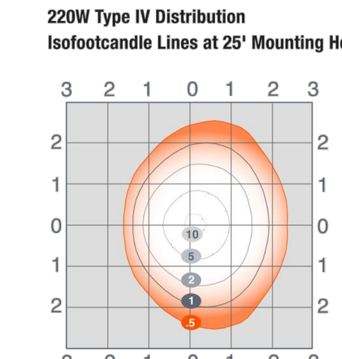
Mounting Height	15'	18'	20'	22'	25'	30'
Multiplier	1.78	1.23	1.00	0.83	0.64	0.44

For 145W use 1.4 multiplier.

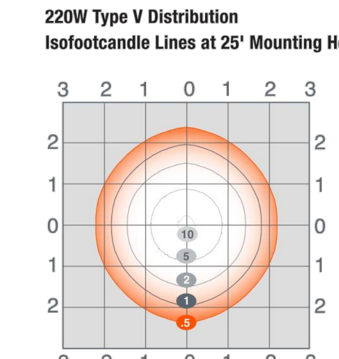
220W Type III Distribution Isofootcandle Lines at 25' Mounting Height



220W Type IV Distribution Isofootcandle Lines at 25' Mounting Height



220W Type V Distribution Isofootcandle Lines at 25' Mounting Height

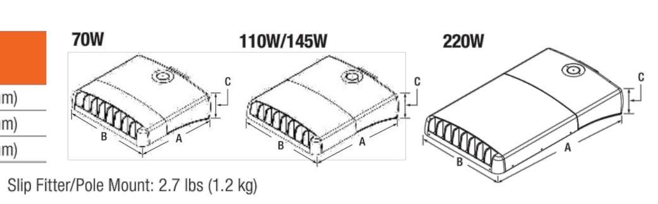


For other mounting heights apply the following multipliers:

Mounting Height	15'	18'	20'	22'	25'	30'
Multiplier	1.78	1.23	1.00	0.83	0.64	0.44

Physical Information

Lamp Description	(A) Length	(B) Width	(C) Height
70W	12.2 in (309.8 mm)	12.5 in (317.5 mm)	4.2 in (106.6 mm)
100/145W	15.2 in (386 mm)	12.5 in (317.5 mm)	4.2 in (106.6 mm)
220W	20.9 in (530.8 mm)	12.5 in (317.5 mm)	4.2 in (106.6 mm)

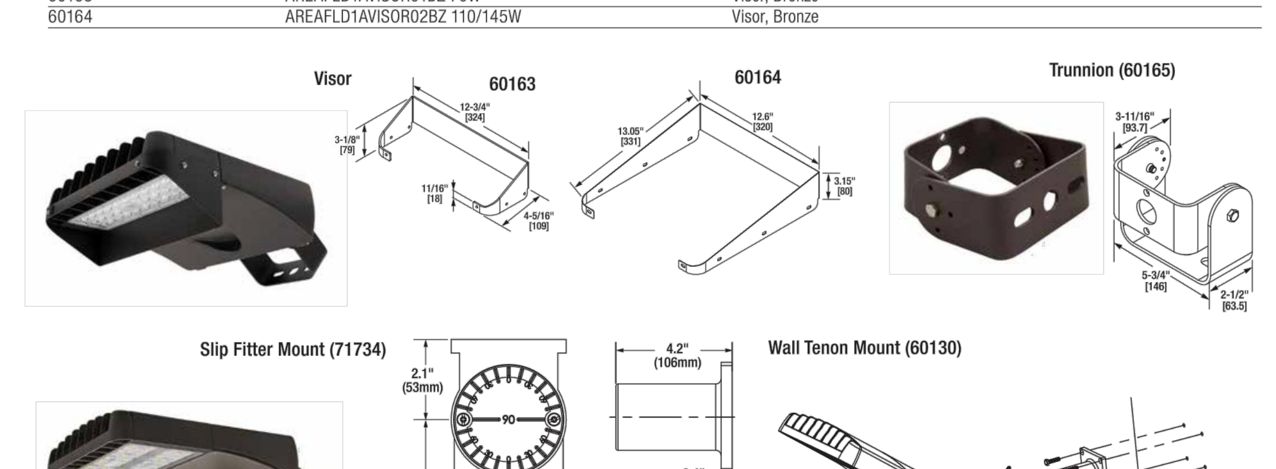


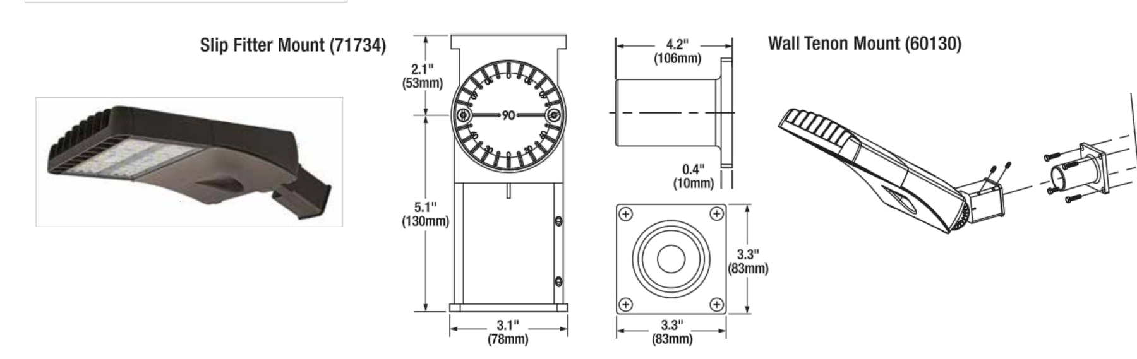
Weight: 70W: 9.7 lbs (4.4 kg) 110/145W: 11.5 lbs (5.2 kg) 220W: 18.5 lbs (8.4 kg) Slip Fitter/Pole Mount: 2.7 lbs (1.2 kg)

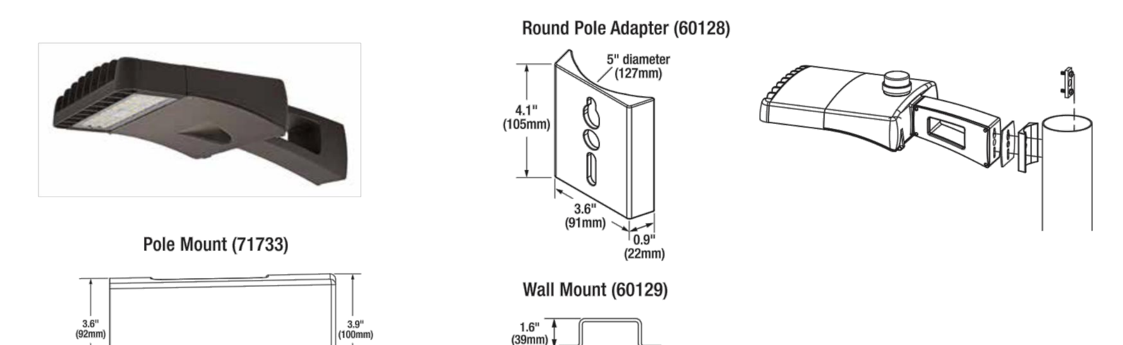
EPA (Effective Protection Area): 70W: 0.27ft², with knuckle: 0.45ft² 110/145W: 0.38ft², with knuckle: 0.56ft² 220W: 0.66ft², with knuckle: 0.78ft²

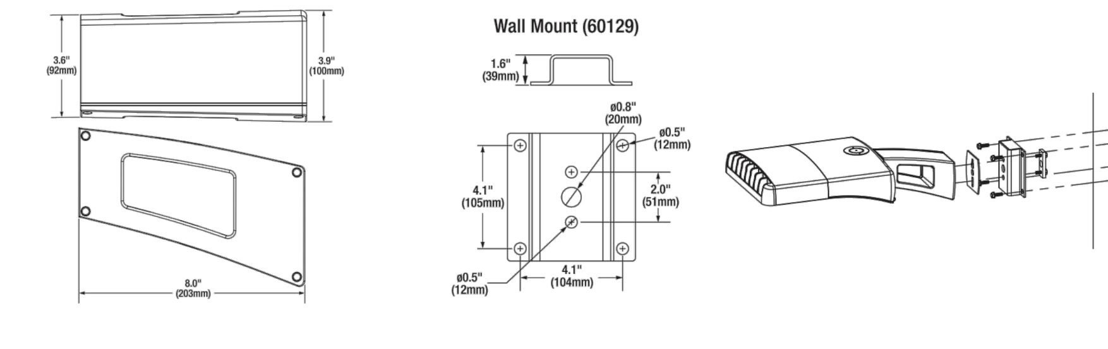
Mounting Accessories

Item Number	Ordering Abbreviation	Item Description
71734	AREAFLD1A/SLIPFITTER/BZ	Slip Fitter Mount, Bronze
60130	AREAFLD1A/WALLTENON/BZ	Wall Tenon Mount, Bronze (Requires Slip Fitter)
71733	AREAFLD1A/POLEMOUNT/BZ	Pole Mount, Bronze
60128	AREAFLD1A/RNDADAPT/BZ	Round Adapter, Bronze (Requires Pole Mount)
60129	AREAFLD1A/WALLMNT/BZ	Wall Mount, Bronze (Requires Pole Mount)
60165	AREAFLD1ATRUNNIONBZ	Trunnion, Bronze
60163	AREAFLD1AVISOR01BZ 70W	Visor, Bronze
60164	AREAFLD1AVISOR02BZ 110/145W	Visor, Bronze









NOTE:
1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION, BY CALLING 1-800-922-4455.

REVISION				
NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

DYMAR
800 Main Street South · Southbury, Ct. 06488 · (203) 267-1046 · Fax (203) 267-1547
ENGINEERING · PLANNING · SURVEYING · DEVELOPMENT SERVICES

DRAWINGS TO BE USED FOR LAND USE SUBMISSIONS ONLY
NOT FOR CONSTRUCTION

CLIENT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

PROJECT: Easton Racquet Club, Inc.
36 Wimbeldon Lane, P.O. Box 152
Easton, CT 06612

TITLE: Paddle Board Courts
Site Lighting Cut Sheets

DATE:	02/15/21
SCALE:	AS NOTED
DESIGNED BY:	M.E.L.
DRAWN BY:	C.C.B.
CHECKED BY:	M.E.L.
JOB NO:	00335
DRAWING NO:	C-7D