

# NORTH END FIELD BALLFIELD RECONSTRUCTION

210 BRITANNIA STREET  
MERIDEN, CONNECTICUT

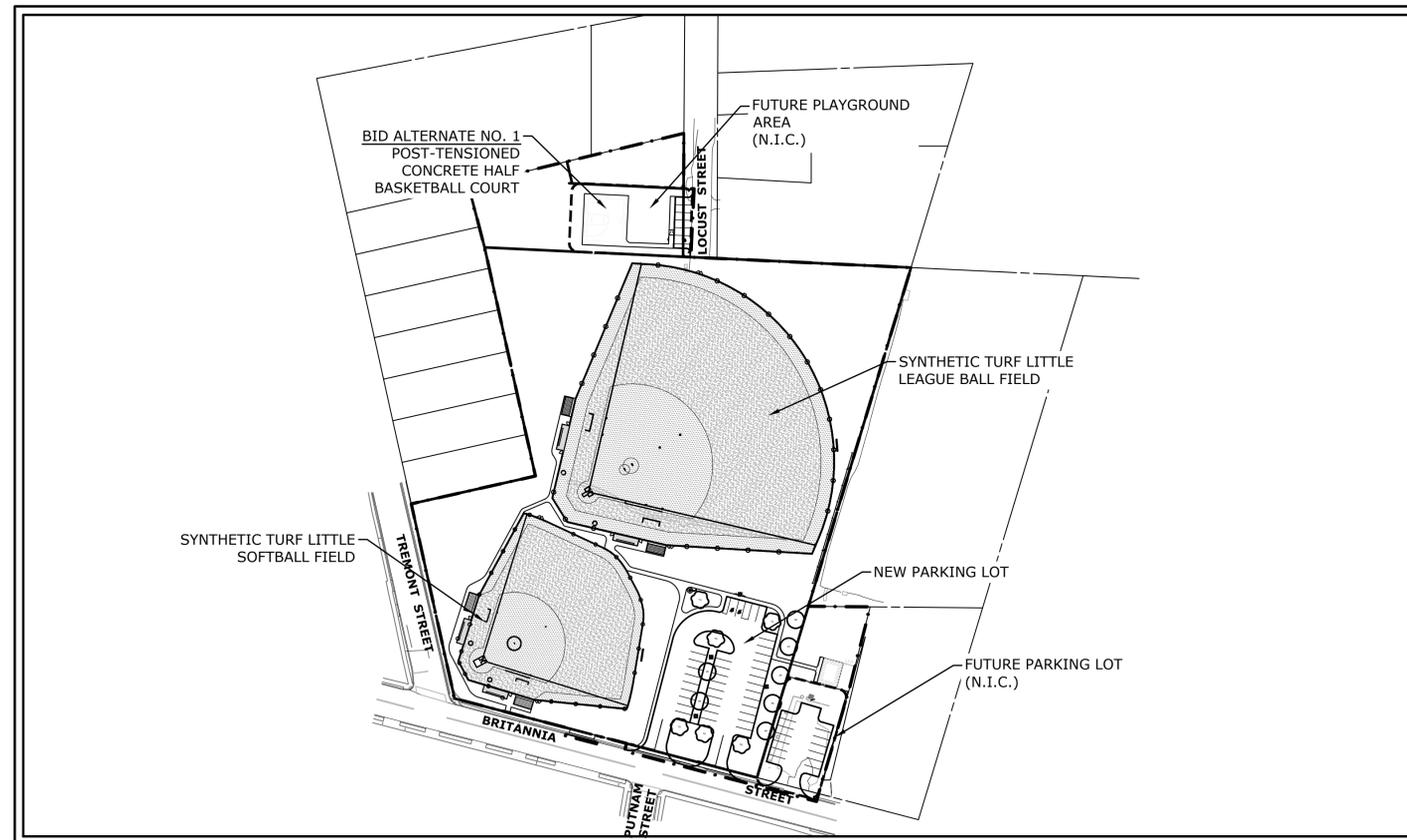
## GENERAL NOTES

1. TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY SLR CONSULTING INC., ENTITLED: "PROPERTY TOPOGRAPHIC, JACK BARRY FIELD BRITANNIA STREET MERIDEN, CONNECTICUT, DATED NOVEMBER 17, 2021, AT A SCALE 1"=40'."
2. NORTH BASED UPON THE CONNECTICUT COORDINATE SYSTEM NAD 1983 ESTABLISHED BY GPS.
3. VERTICAL DATUM BASED ON NAVD88 ESTABLISHED WITH GPS.
4. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
5. SLR CONSULTING INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
6. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
7. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
8. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE CITY OF MERIDEN REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 818 AND ADDENDUMS
9. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER COMPANY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
10. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.

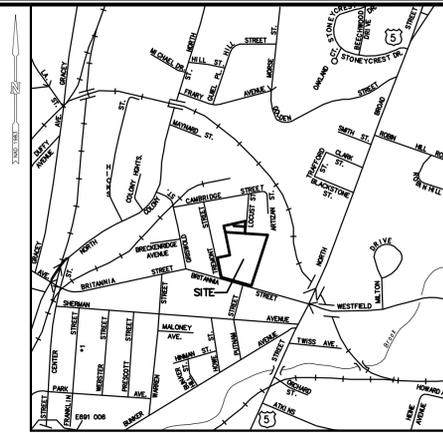
## CONSTRUCTION SEQUENCE

1. PRIOR TO COMMENCEMENT OF WORK, A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH CITY STAFF AND REPRESENTATIVES OF THE CONTRACTOR AND OWNER. AT THIS MEETING, ONE PERSON WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE SITE.
2. GENERAL CONTRACTOR TO SUBMIT A DETAILED CONSTRUCTION SEQUENCE FOR REVIEW AND APPROVAL BY THE TOWN AND PROJECT ENGINEER.
3. CITY STAFF WILL BE NOTIFIED ONCE A CONSTRUCTION SCHEDULE IS FINALIZED AND PRIOR TO THE START OF ANY SITE WORK.
4. CONTACT "CALL BEFORE YOU DIG" FOR MARK OUT OF ALL UTILITIES.
5. CONTRACTOR TO STAKE OUT LIMIT OF DISTURBANCE. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
6. CONTRACTOR TO INSTALL SEDIMENT AND EROSION CONTROLS ALONG THE PERIMETER AND STABILIZED CONSTRUCTION ENTRANCES.
7. STRIP TOPSOIL. PLACE SEDIMENT FILTER FENCE AND HAYBALES AROUND STOCKPILES.
8. INITIATE MASS EARTHWORK OPERATIONS AFTER ALL BASINS, BERMS, SILT FENCE & HAYBALES ARE INSTALLED.
9. INSTALL SITE UTILITIES AND FOUNDATIONS.
10. SLOPES ARE TO BE ESTABLISHED AS SOON AS PRACTICAL. STABILIZE ALL SLOPES IMMEDIATELY AFTER THEIR ESTABLISHMENT.
11. INSTALL SITE IMPROVEMENTS INCLUDING FENCING, NETTING, ETC.
12. SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER.
13. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND THE TOWN'S DESIGNATED REPRESENTATIVE AS NECESSITATED BY CHANGING SITE CONDITIONS
14. INSPECTION OF THE SITE FOR EROSION SHALL CONTINUE FOR A PERIOD OF THREE MONTHS AFTER COMPLETION WHEN RAINFALLS OF ONE INCH OR MORE OCCUR.
15. THE SITE SHOULD BE KEPT CLEAN OF LOOSE DEBRIS, LITTER, AND BUILDING MATERIALS SUCH THAT NONE OF THE ABOVE ENTER WATERS OR WETLANDS.
16. A COPY OF ALL PLANS AND REVISIONS, AND THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MAINTAINED ON-SITE AT ALL TIMES DURING CONSTRUCTION.

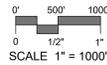
BID DOCUMENTS  
AUGUST 29, 2022



PROJECT SITE VICINITY MAP:



LOCATION MAP  
SCALE: 1"=1000'



## PREPARED FOR:

MERIDEN PUBLIC SCHOOLS  
22 LIBERTY STREET  
MERIDEN, CT 06450

## LIST OF DRAWINGS

NO.	NAME	TITLE
01	--	TITLE SHEET
02	IN	INDEX PLAN
03-04	EX-1-EX-2	EXISTING CONDITIONS
05-06	RM-1-RM-2	SITE PLAN - REMOVALS
07-08	LA-1-LA-2	SITE PLAN - LAYOUT & LANDSCAPING
09-10	GR-1-GR-2	SITE PLAN - GRADING
11-12	UT-1-UT-2	SITE PLAN - UTILITIES
13-14	SE-1-SE-2	SITE PLAN - SEDIMENT & EROSION CONTROLS
15	SE-3	SEDIMENT & EROSION CONTROL NOTES AND DETAILS
16-20	SD-1-SD-5	SITE DETAILS
22	SD-6	CITY OF MERIDEN STANDARD DETAILS
22	ES-0	SITE ELECTRICAL SPECIFICATIONS, NOTES & ABBREVIATIONS
23	ES-1	SITE ELECTRICAL DETAILS & SCHEDULES
24	ES-2	SITE ELECTRICAL DETAILS
25	ES-3	SITE ELECTRICAL PLAN

## PREPARED BY:

**SLR**

99 REALTY DRIVE  
CHESHIRE, CT 06410  
203.271.1773  
SLRCONSULTING.COM

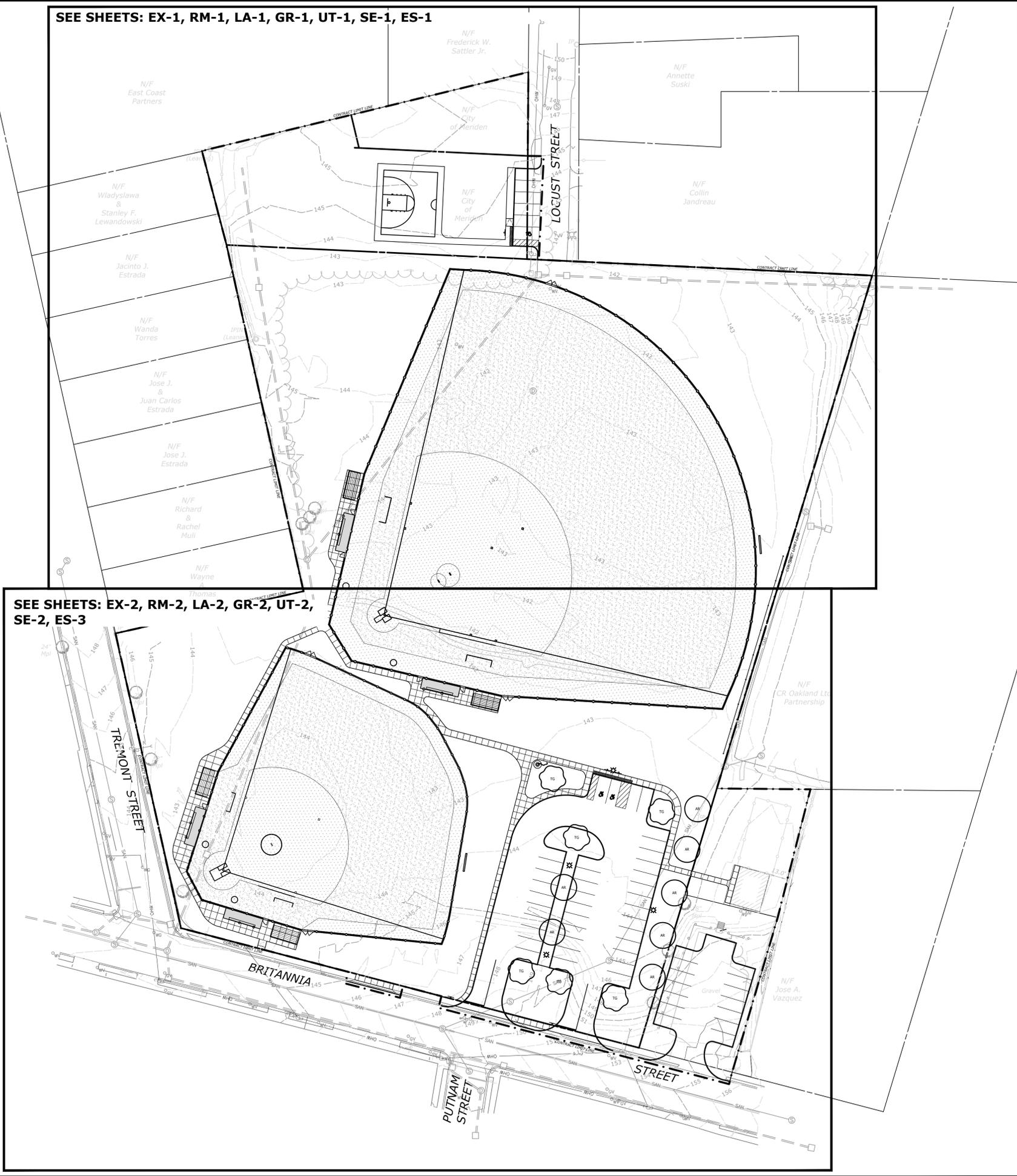


Know what's below.  
Call before you dig.  
www.cbyd.com

14792.00004 - 02 OF 25 - AUGUST 29, 2022 - 14792.00004 - 02 OF 25 - AUGUST 29, 2022  
 14792.00004 - 02 OF 25 - AUGUST 29, 2022 - 14792.00004 - 02 OF 25 - AUGUST 29, 2022

LEGEND	
EXISTING	PROPOSED
	STREET LINE
	PROPERTY LINE
	CONTRACT LIMIT LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	SPOT GRADE
	WETLANDS
	TREE LINE
	TREE
	SITE LIGHT
	HYDRANT
	WATER METER
	WATER VALVE
	GAS VALVE
	CATCH BASIN
	MANHOLE/YARD DRAIN/ AREA DRAIN
	SANITARY SEWER WITH MANHOLE
	STORM DRAIN WITH CATCH BASIN
	WATER MAIN
	DOMESTIC WATER
	FIRE PROTECTION WATER
	GAS MAIN
	ELECTRIC LINE
	ELECTRIC, TELEPHONE, CABLE
	UTILITY POLE
	TRAFFIC SIGN
	IRON PIPE
	MONUMENT
	EDGE OF PAVEMENT WITH CURB
	RETAINING WALL
	SIDEWALK
	BOLLARD
	GUARD RAIL
	PICKET FENCE
	CHAIN LINK FENCE
	BARBWIRE FENCE
	DIVERSION BERM
	BORING

**N.I.C. = NOT IN CONTRACT**



SEE SHEETS: EX-1, RM-1, LA-1, GR-1, UT-1, SE-1, ES-1

SEE SHEETS: EX-2, RM-2, LA-2, GR-2, UT-2, SE-2, ES-3

99 REALTY DRIVE  
203211772  
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

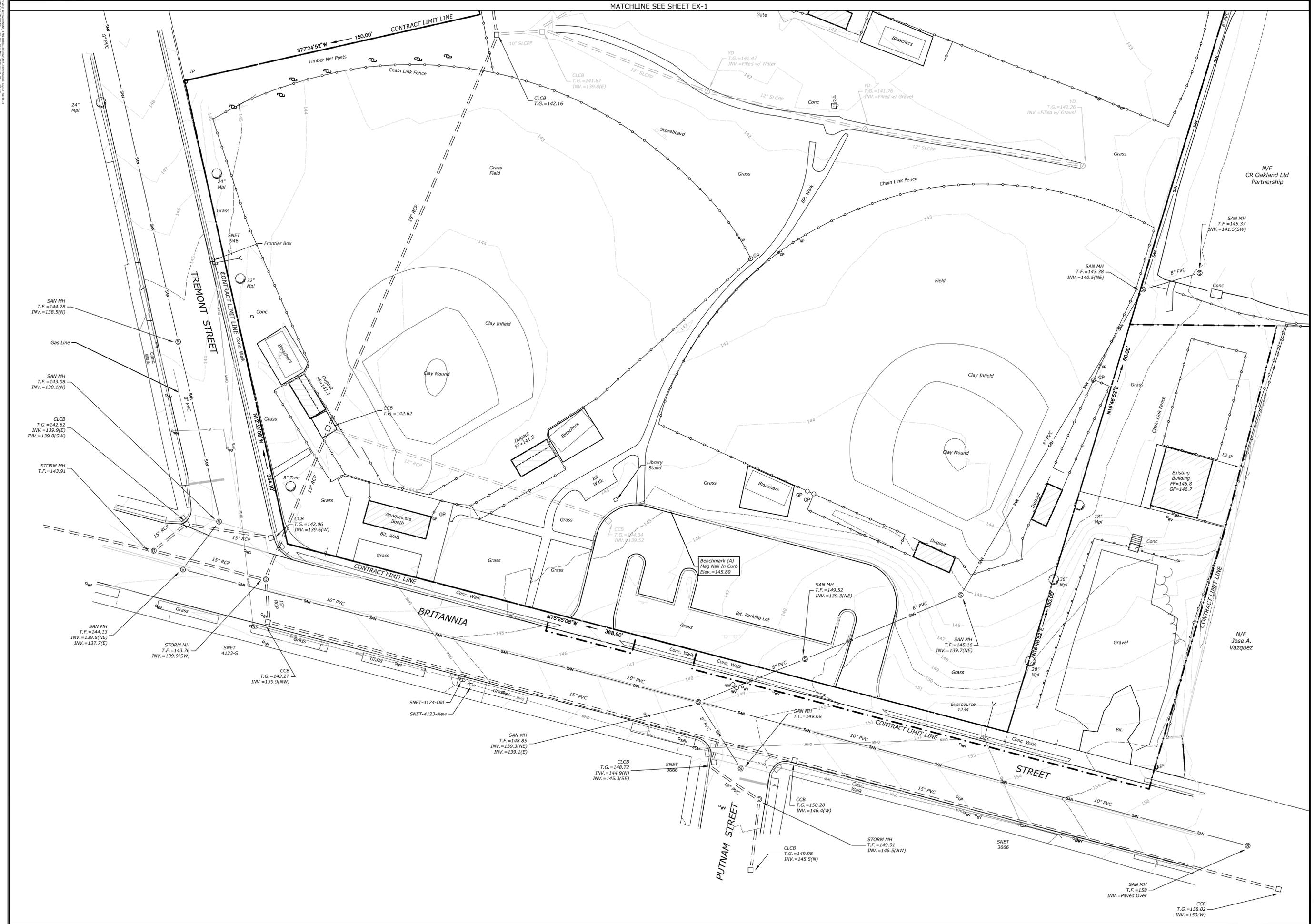
**INDEX PLAN, NOTES AND LEGEND**

**NORTH END FIELD  
BALLFIELD RECONSTRUCTION**  
210 BRITANNIA STREET  
MERIDEN, CONNECTICUT

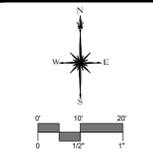
KCF DESIGNED	GB DRAWN	KCF CHECKED
SCALE 1"=40'		
DATE AUGUST 29, 2022		
PROJECT NO. 14792.00004		
SHEET NO. 02 OF 25		
IN		

SHEET NAME  
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MATCHLINE SEE SHEET EX-1



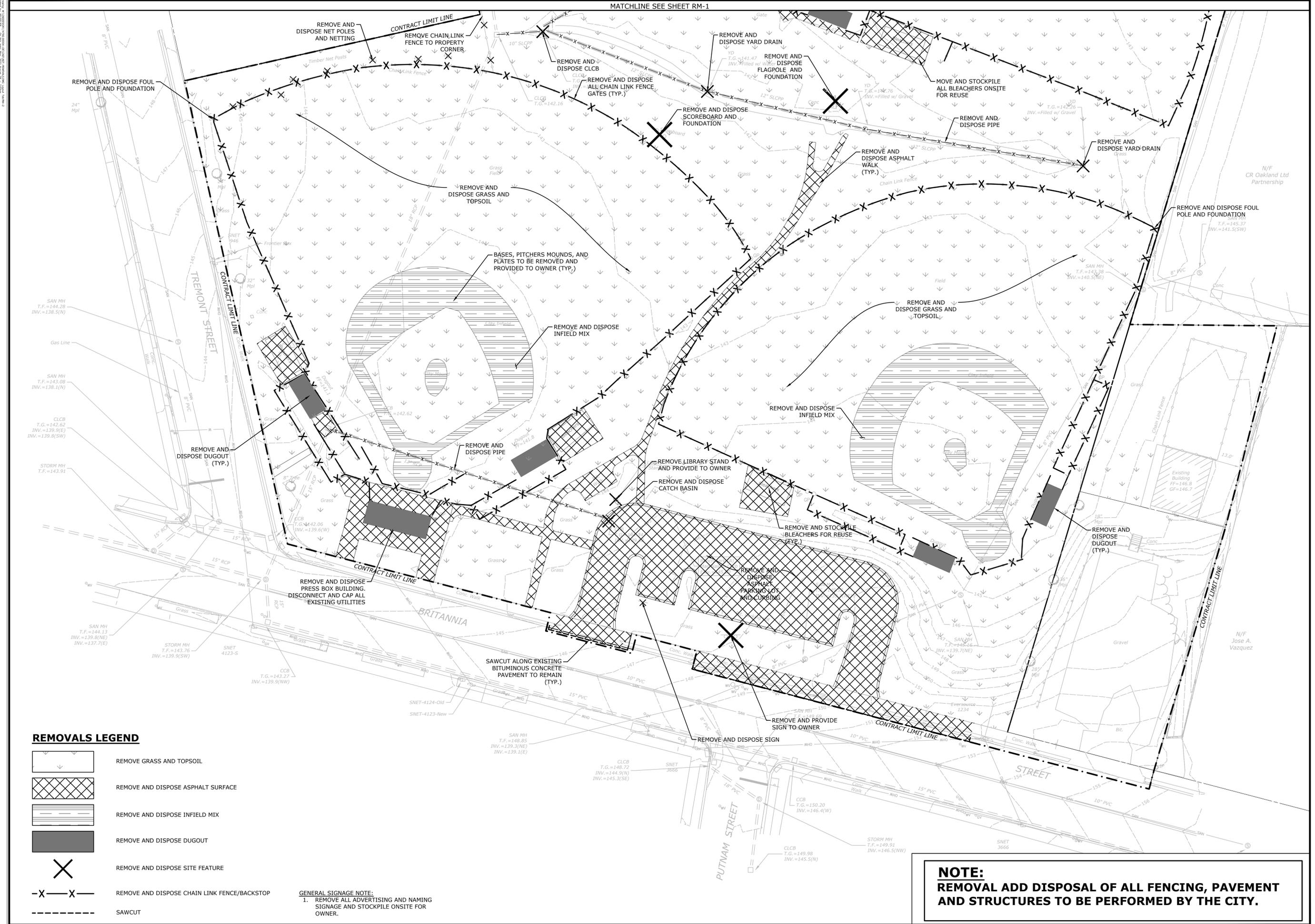
**SLR**  
 99 REALTY DRIVE  
 SUITE 200  
 203211772  
 SLRCONSULTING.COM

DESCRIPTION	DATE	BY

**SITE PLAN - EXISTING CONDITIONS**  
**NORTH END FIELD**  
**BALLFIELD RECONSTRUCTION**  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

DESIGNED	GB	KCF
DRAWN		
CHECKED		
SCALE	1"=20'	
DATE	AUGUST 29, 2022	
PROJECT NO.	14792.00004	
SHEET NO.	04 OF 25	
SHEET NAME	<b>EX-2</b>	



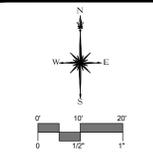


**REMOVALS LEGEND**

-  REMOVE GRASS AND TOPSOIL
-  REMOVE AND DISPOSE ASPHALT SURFACE
-  REMOVE AND DISPOSE INFIELD MIX
-  REMOVE AND DISPOSE DUGOUT
-  REMOVE AND DISPOSE SITE FEATURE
-  REMOVE AND DISPOSE CHAIN LINK FENCE/BACKSTOP
-  SAWCUT

**GENERAL SIGNAGE NOTE:**  
 1. REMOVE ALL ADVERTISING AND NAMING SIGNAGE AND STOCKPILE ONSITE FOR OWNER.

**NOTE:**  
 REMOVAL ADD DISPOSAL OF ALL FENCING, PAVEMENT AND STRUCTURES TO BE PERFORMED BY THE CITY.

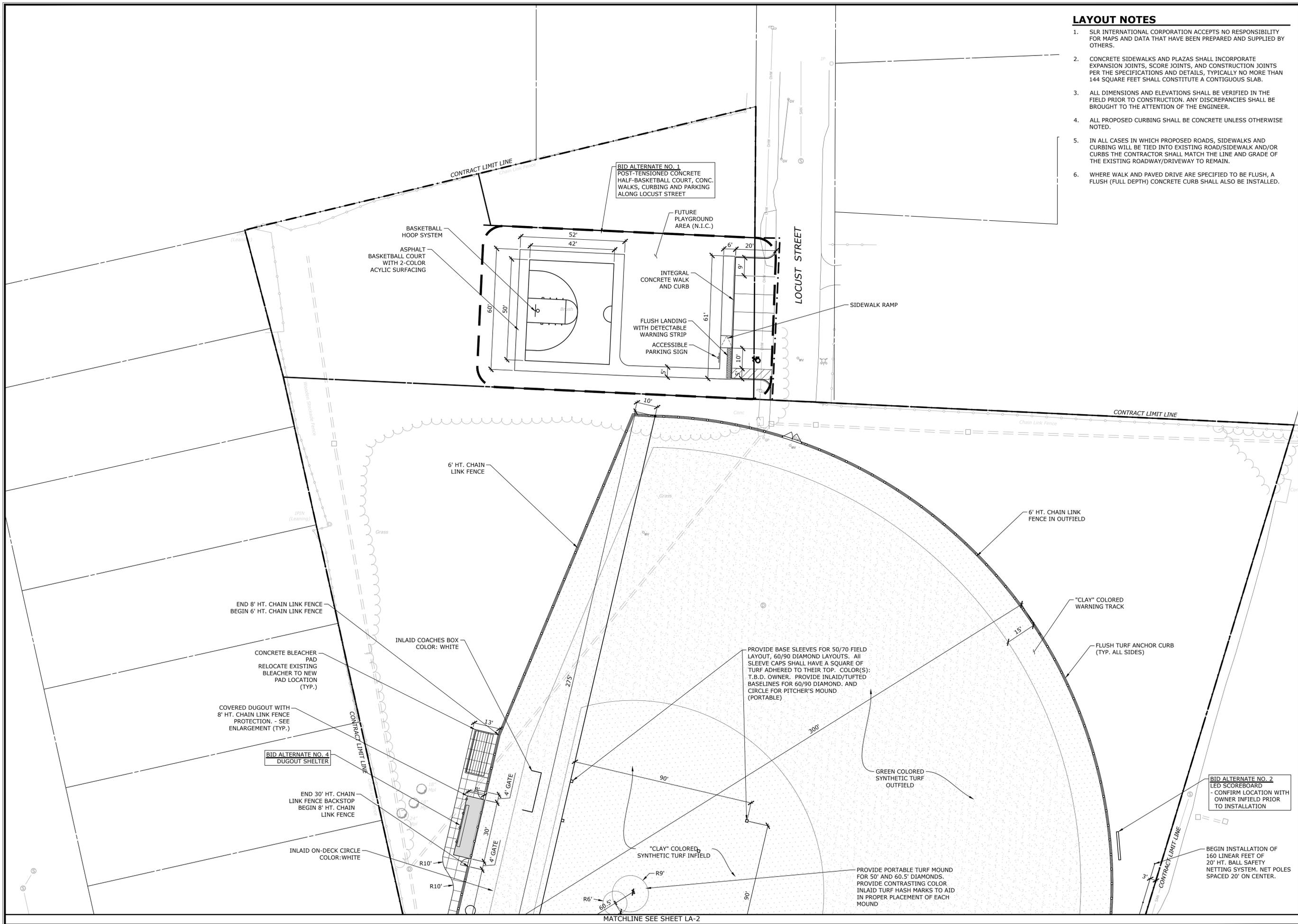


DESCRIPTION	DATE	BY

**SITE PLAN - REMOVALS**  
**NORTH END FIELD**  
**BALLFIELD RECONSTRUCTION**  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

KCF DESIGNED	GB DRAWN	KCF CHECKED
SCALE 1"=20'		
DATE AUGUST 29, 2022		
PROJECT NO. 14792.00004		
SHEET NO. 06 OF 25		
SHEET NAME <b>RM-2</b>		

14792.00004 - 08/29/2022 - 14792.00004 - 08/29/2022  
 14792.00004 - 08/29/2022 - 14792.00004 - 08/29/2022



- ### LAYOUT NOTES
- SLR INTERNATIONAL CORPORATION ACCEPTS NO RESPONSIBILITY FOR MAPS AND DATA THAT HAVE BEEN PREPARED AND SUPPLIED BY OTHERS.
  - CONCRETE SIDEWALKS AND PLAZAS SHALL INCORPORATE EXPANSION JOINTS, SCORE JOINTS, AND CONSTRUCTION JOINTS PER THE SPECIFICATIONS AND DETAILS, TYPICALLY NO MORE THAN 144 SQUARE FEET SHALL CONSTITUTE A CONTIGUOUS SLAB.
  - ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
  - ALL PROPOSED CURBING SHALL BE CONCRETE UNLESS OTHERWISE NOTED.
  - IN ALL CASES IN WHICH PROPOSED ROADS, SIDEWALKS AND CURBING WILL BE TIED INTO EXISTING ROAD/SIDEWALK AND/OR CURBS THE CONTRACTOR SHALL MATCH THE LINE AND GRADE OF THE EXISTING ROADWAY/DRIVEWAY TO REMAIN.
  - WHERE WALK AND PAVED DRIVE ARE SPECIFIED TO BE FLUSH, A FLUSH (FULL DEPTH) CONCRETE CURB SHALL ALSO BE INSTALLED.

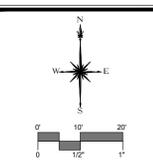
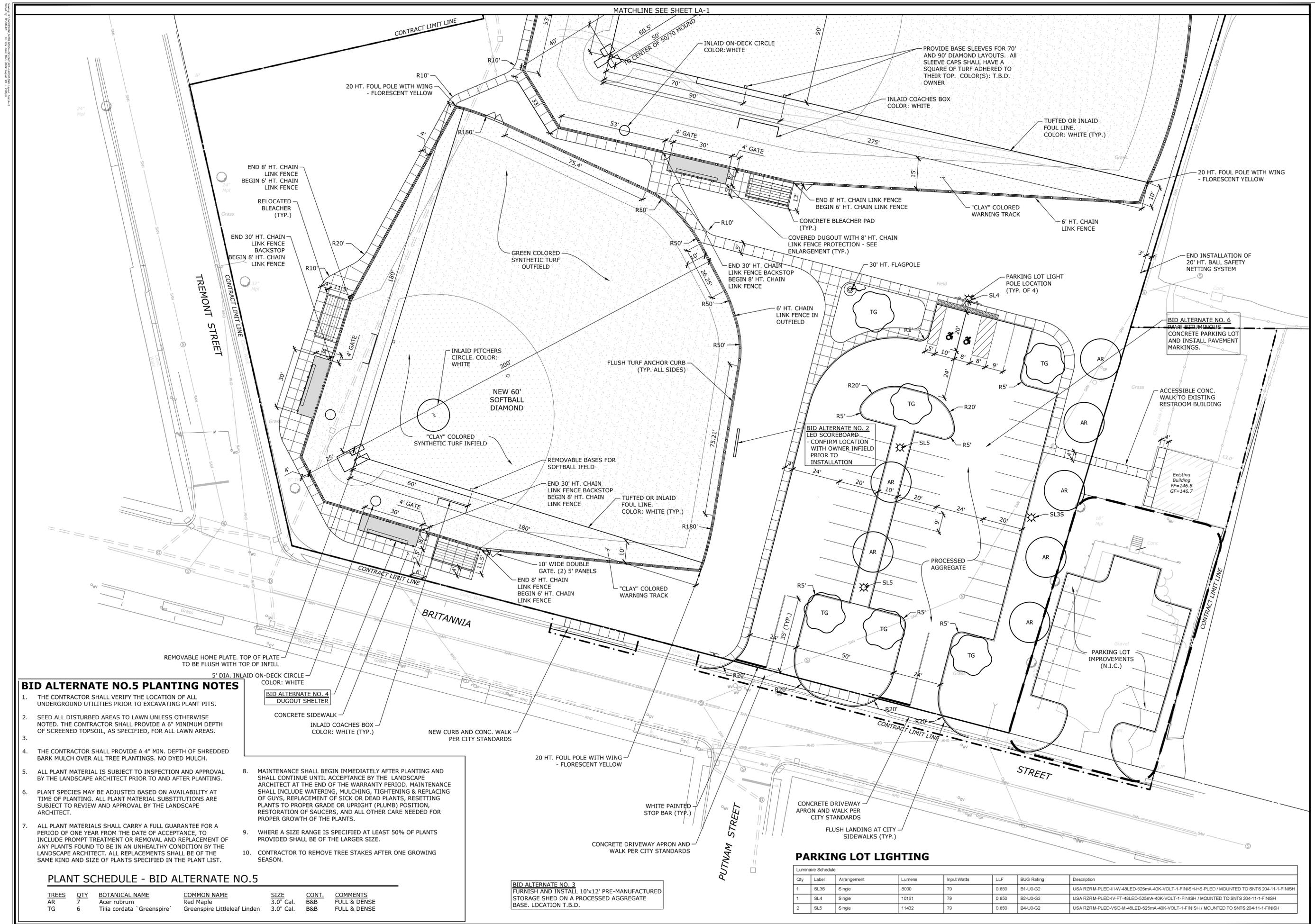


DESCRIPTION	DATE	BY

**SITE PLAN - LAYOUT & LANDSCAPING**  
**NORTH END FIELD**  
**BALLFIELD RECONSTRUCTION**  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

KCF	JDL	KCF
DESIGNED	DRAWN	CHECKED
SCALE		
1"=20'		
DATE		
AUGUST 29, 2022		
PROJECT NO.		
14792.00004		
SHEET NO.		
07 OF 25		

**LA-1**  
 SHEET NAME



**SLR**  
 99 REAITY DRIVE  
 SUITE 200  
 20327177  
 SLRCONSULTING.COM

DESCRIPTION	DATE	BY

**BID ALTERNATE NO. 6**  
 DAVE STUMMIGLIUS  
 CONCRETE PARKING LOT  
 AND INSTALL PAVEMENT  
 MARKINGS.

**BID ALTERNATE NO. 2**  
 LED SCOREBOARD  
 - CONFIRM LOCATION  
 WITH OWNER INFIELD  
 PRIOR TO  
 INSTALLATION

**BID ALTERNATE NO. 4**  
 DUGOUT SHELTER

**BID ALTERNATE NO. 3**  
 FURNISH AND INSTALL 10'x12' PRE-MANUFACTURED  
 STORAGE SHED ON A PROCESSED AGGREGATE  
 BASE. LOCATION T.B.D.

**BID ALTERNATE NO.5 PLANTING NOTES**

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING PLANT PITS.
2. SEED ALL DISTURBED AREAS TO LAWN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE A 6" MINIMUM DEPTH OF SCREENED TOPSOIL, AS SPECIFIED, FOR ALL LAWN AREAS.
- 3.
4. THE CONTRACTOR SHALL PROVIDE A 4" MIN. DEPTH OF SHREDDED BARK MULCH OVER ALL TREE PLANTINGS. NO DYED MULCH.
5. ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO AND AFTER PLANTING.
6. PLANT SPECIES MAY BE ADJUSTED BASED ON AVAILABILITY AT TIME OF PLANTING. ALL PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.
7. ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
8. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT AT THE END OF THE WARRANTY PERIOD. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTling PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
9. WHERE A SIZE RANGE IS SPECIFIED AT LEAST 50% OF PLANTS PROVIDED SHALL BE OF THE LARGER SIZE.
10. CONTRACTOR TO REMOVE TREE STAKES AFTER ONE GROWING SEASON.

**BID ALTERNATE NO. 4**

DUGOUT SHELTER

CONCRETE SIDEWALK

INLAID COACHES BOX  
 COLOR: WHITE (TYP.)

NEW CURB AND CONC. WALK  
 PER CITY STANDARDS

20 HT. FOUL POLE WITH WING  
 - FLORESCENT YELLOW

WHITE PAINTED  
 STOP BAR (TYP.)

CONCRETE DRIVEWAY APRON AND  
 WALK PER CITY STANDARDS

FLUSH LANDING AT CITY  
 SIDEWALKS (TYP.)

PROCESSED AGGREGATE

PARKING LOT IMPROVEMENTS  
 (N.I.C.)

ACCESSIBLE CONC.  
 WALK TO EXISTING  
 RESTROOM BUILDING

EXISTING BUILDING  
 FF=146.8  
 GF=146.7

END INSTALLATION OF  
 20' HT. BALL SAFETY  
 NETTING SYSTEM

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

RELOCATED BLEACHER  
 (TYP.)

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

**BID ALTERNATE NO. 5**

5' DIA. INLAID ON-DECK CIRCLE  
 COLOR: WHITE

REMOVABLE HOME PLATE. TOP OF PLATE  
 TO BE FLUSH WITH TOP OF INFILL

CONCRETE BLEACHER PAD  
 (TYP.)

COVERED DUGOUT WITH 8' HT. CHAIN  
 LINK FENCE PROTECTION - SEE  
 ENLARGEMENT (TYP.)

CONCRETE BLEACHER PAD  
 (TYP.)

30' HT. FLAGPOLE

PARKING LOT LIGHT  
 POLE LOCATION  
 (TYP. OF 4)

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

RELOCATED BLEACHER  
 (TYP.)

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

RELOCATED BLEACHER  
 (TYP.)

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

**BID ALTERNATE NO. 6**

CONCRETE PARKING LOT  
 AND INSTALL PAVEMENT  
 MARKINGS.

ACCESSIBLE CONC.  
 WALK TO EXISTING  
 RESTROOM BUILDING

EXISTING BUILDING  
 FF=146.8  
 GF=146.7

END INSTALLATION OF  
 20' HT. BALL SAFETY  
 NETTING SYSTEM

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

RELOCATED BLEACHER  
 (TYP.)

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

RELOCATED BLEACHER  
 (TYP.)

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

RELOCATED BLEACHER  
 (TYP.)

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

RELOCATED BLEACHER  
 (TYP.)

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

**BID ALTERNATE NO. 3**

FURNISH AND INSTALL 10'x12' PRE-MANUFACTURED  
 STORAGE SHED ON A PROCESSED AGGREGATE  
 BASE. LOCATION T.B.D.

CONCRETE DRIVEWAY APRON AND  
 WALK PER CITY STANDARDS

FLUSH LANDING AT CITY  
 SIDEWALKS (TYP.)

PROCESSED AGGREGATE

PARKING LOT IMPROVEMENTS  
 (N.I.C.)

ACCESSIBLE CONC.  
 WALK TO EXISTING  
 RESTROOM BUILDING

EXISTING BUILDING  
 FF=146.8  
 GF=146.7

END INSTALLATION OF  
 20' HT. BALL SAFETY  
 NETTING SYSTEM

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

RELOCATED BLEACHER  
 (TYP.)

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

RELOCATED BLEACHER  
 (TYP.)

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

RELOCATED BLEACHER  
 (TYP.)

END 30' HT. CHAIN LINK FENCE  
 BEGIN 8' HT. CHAIN LINK FENCE

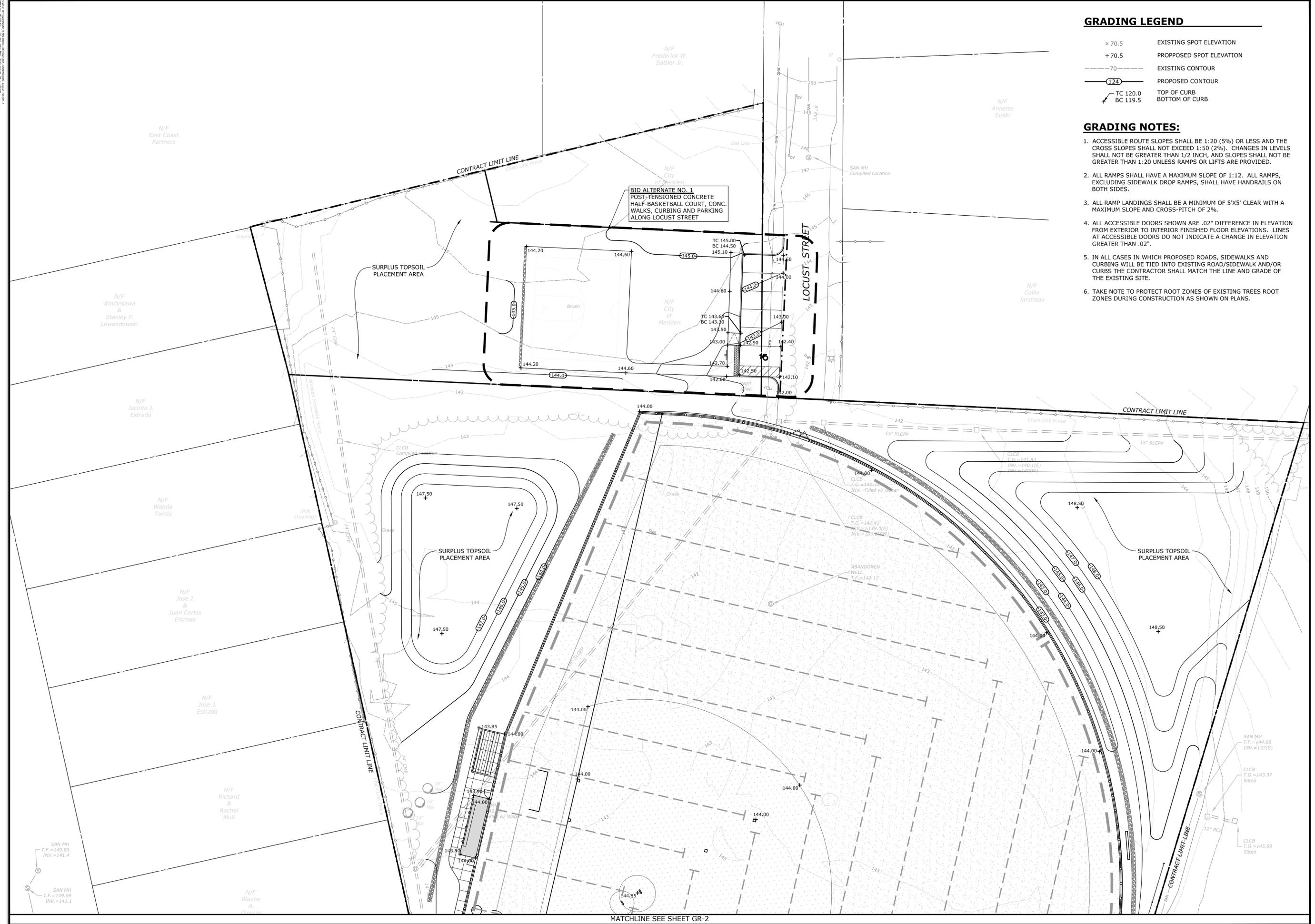
END 8' HT. CHAIN LINK FENCE  
 BEGIN 6' HT. CHAIN LINK FENCE

**PARKING LOT LIGHTING**

Qty	Label	Arrangement	Lumens	Input Watts	LLF	BUG Rating	Description
1	SL3S	Single	8000	79	0.850	B1-U0-G2	USA R2RM-PLED-III-W-48LED-525mA-40K-VOLT-1-FINISH-HS-PLED / MOUNTED TO SNTS 204-11-1-FINISH
1	SL4	Single	10161	79	0.850	B2-U0-G3	USA R2RM-PLED-IV-FT-48LED-525mA-40K-VOLT-1-FINISH / MOUNTED TO SNTS 204-11-1-FINISH
2	SL5	Single	11432	79	0.850	B4-U0-G2	USA R2RM-PLED-VSQ-M-48LED-525mA-40K-VOLT-1-FINISH / MOUNTED TO SNTS 204-11-1-FINISH

**SITE PLAN - LAYOUT & LANDSCAPING**  
 NORTH END FIELD  
 BALLFIELD RECONSTRUCTION  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

KCF GB KCF  
 DESIGNED DRAWN CHECKED  
 SCALE 1"=20'  
 DATE AUGUST 29, 2022  
 PROJECT NO. 14792.00004  
 SHEET NO. 08 OF 25  
**LA-2**

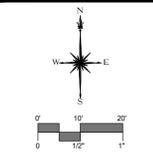


**GRADING LEGEND**

- x 70.5 EXISTING SPOT ELEVATION
- + 70.5 PROPOSED SPOT ELEVATION
- - - 70 - - - EXISTING CONTOUR
- - - 124 - - - PROPOSED CONTOUR
- TC 120.0 TOP OF CURB
- BC 119.5 BOTTOM OF CURB

**GRADING NOTES:**

1. ACCESSIBLE ROUTE SLOPES SHALL BE 1:20 (5%) OR LESS AND THE CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/2 INCH, AND SLOPES SHALL NOT BE GREATER THAN 1:20 UNLESS RAMPS OR LIFTS ARE PROVIDED.
2. ALL RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12. ALL RAMPS, EXCLUDING SIDEWALK DROP RAMPS, SHALL HAVE HANDRAILS ON BOTH SIDES.
3. ALL RAMP LANDINGS SHALL BE A MINIMUM OF 5'X5' CLEAR WITH A MAXIMUM SLOPE AND CROSS-PITCH OF 2%.
4. ALL ACCESSIBLE DOORS SHOWN ARE .02" DIFFERENCE IN ELEVATION FROM EXTERIOR TO INTERIOR FINISHED FLOOR ELEVATIONS. LINES AT ACCESSIBLE DOORS DO NOT INDICATE A CHANGE IN ELEVATION GREATER THAN .02".
5. IN ALL CASES IN WHICH PROPOSED ROADS, SIDEWALKS AND CURBING WILL BE TIED INTO EXISTING ROAD/SIDEWALK AND/OR CURBS THE CONTRACTOR SHALL MATCH THE LINE AND GRADE OF THE EXISTING SITE.
6. TAKE NOTE TO PROTECT ROOT ZONES OF EXISTING TREES ROOT ZONES DURING CONSTRUCTION AS SHOWN ON PLANS.



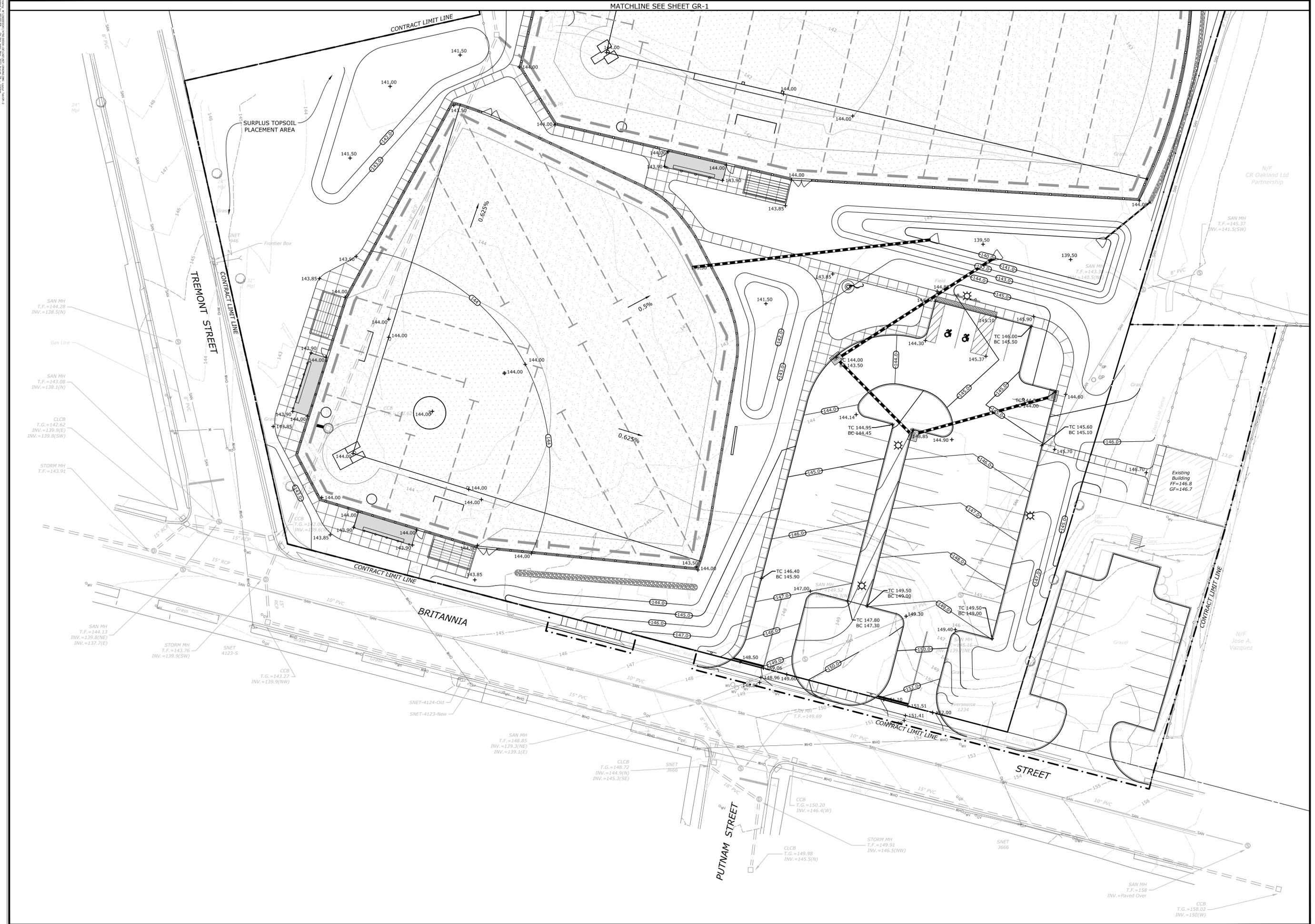
DESCRIPTION	DATE	BY

**SITE PLAN - GRADING**  
**NORTH END FIELD**  
**BALLFIELD RECONSTRUCTION**  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

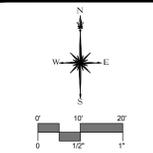
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KCF	JHH	KCF
SCALE: 1"=20'		
DATE: AUGUST 29, 2022		
PROJECT NO.: 14792.00004		
SHEET NO.: 09 OF 25		
SHEET NAME: <b>GR-1</b>		

10/22/22 - 14792.00004 - GR-1 - 09 OF 25 - AUGUST 29, 2022 - 14792.00004 - GR-1 - 09 OF 25 - AUGUST 29, 2022

MATCHLINE SEE SHEET GR-2



MATCHLINE SEE SHEET GR-1

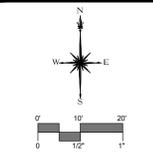
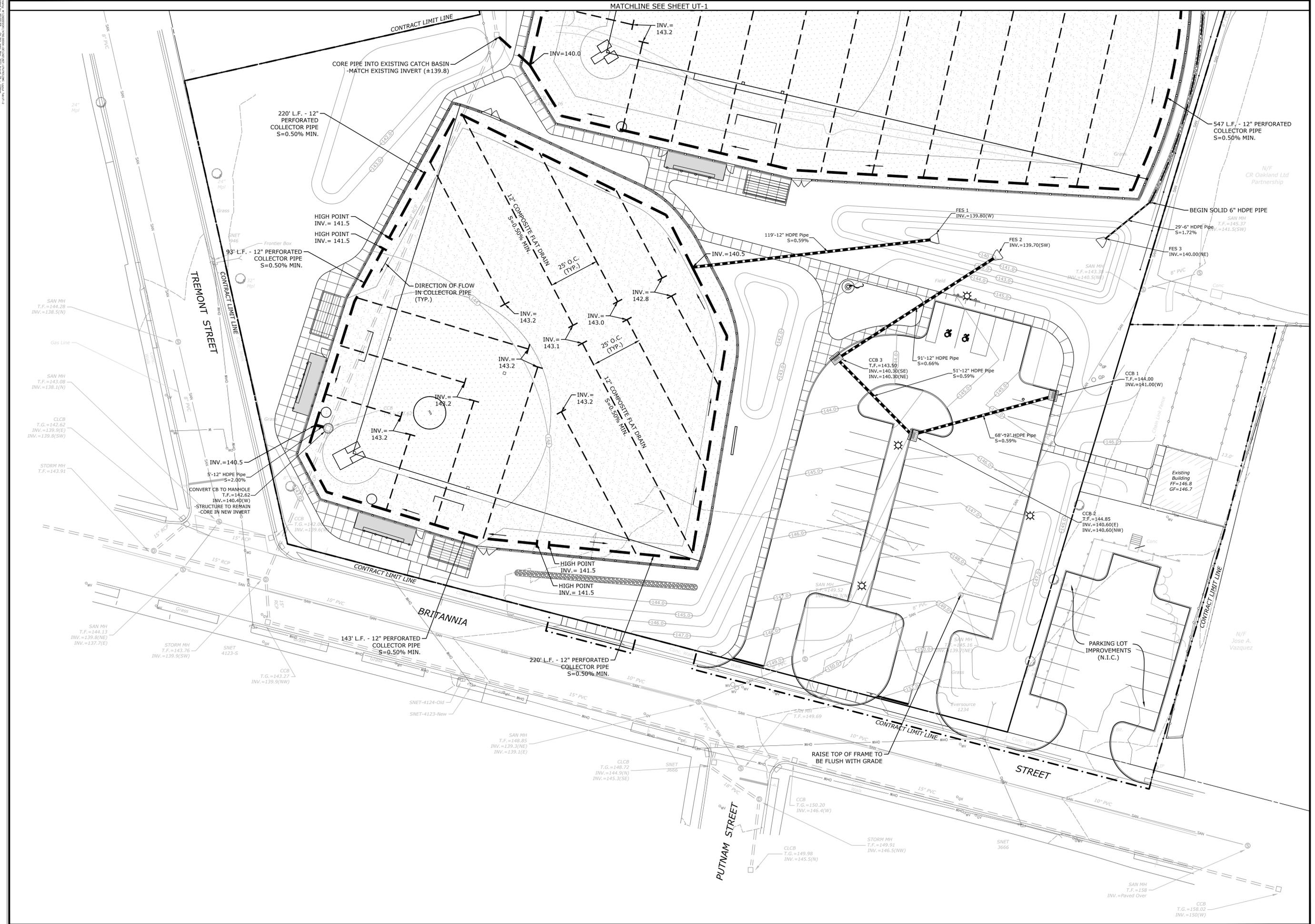


DESCRIPTION	DATE	BY

**SITE PLAN - GRADING**  
**NORTH END FIELD**  
**BALLFIELD RECONSTRUCTION**  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

KCF	JHH	DLO
DESIGNED	DRAWN	CHECKED
SCALE: 1"=20'		
DATE: AUGUST 29, 2022		
PROJECT NO.: 14792.00004		
SHEET NO.: 10 OF 25		
<b>GR-2</b>		





**SLR**  
 99 REALTY DRIVE  
 SUITE 100  
 MERIDEN, CT 06460  
 TEL: 203.237.1772  
 WWW.SLRCONSULTING.COM

DESCRIPTION	DATE	BY

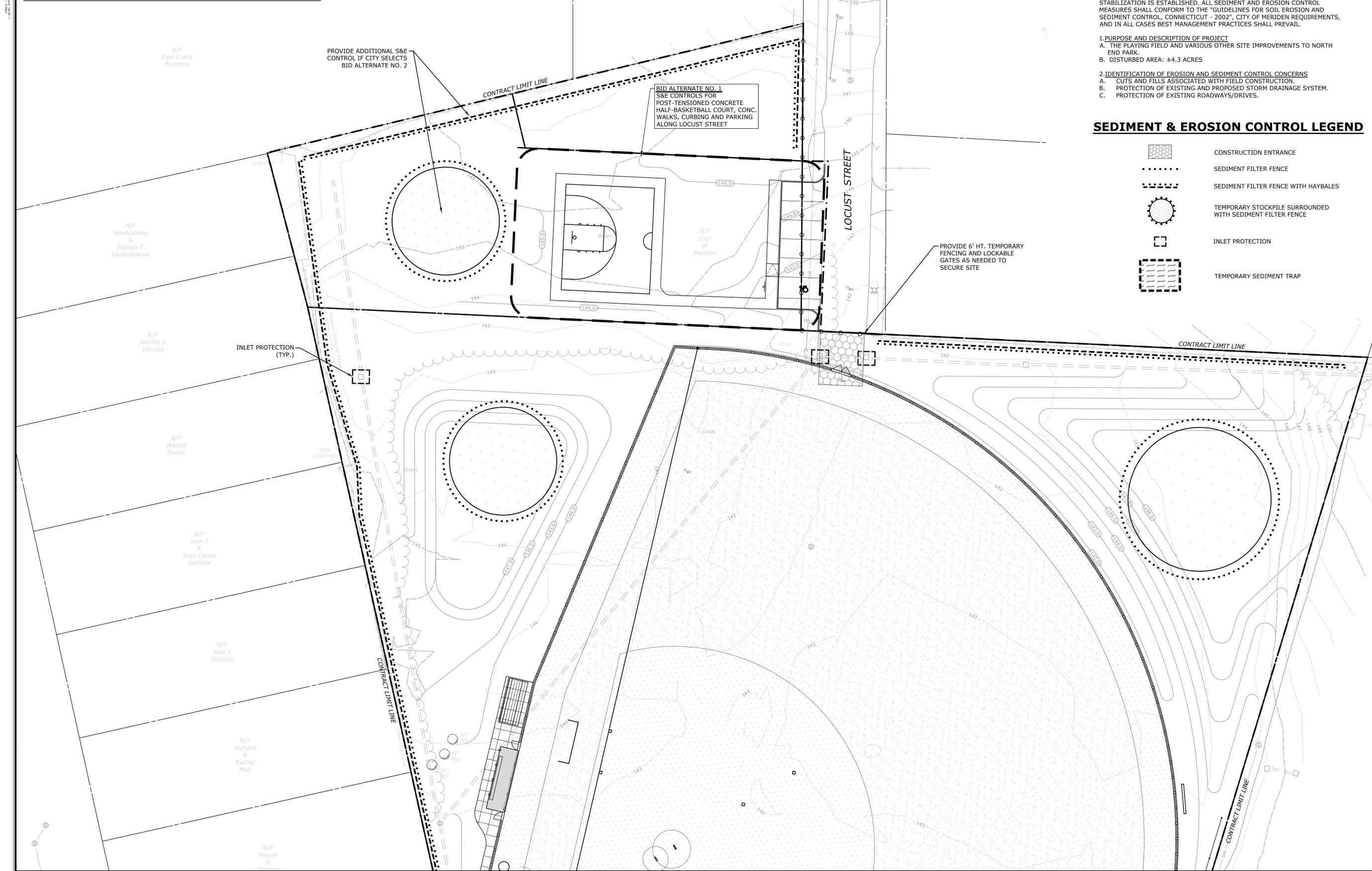
**SITE PLAN - UTILITIES**  
**NORTH END FIELD**  
**BALLFIELD RECONSTRUCTION**  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

JDL	JDL	DLO
DESIGNED	DRAWN	CHECKED
SCALE		
1"=20'		
DATE		
AUGUST 29, 2022		
PROJECT NO.		
14792.00004		
SHEET NO.		
12 OF 25		

**UT-2**

TEMPORARY SEDIMENT TRAP SIZING SUMMARY					
TRAP NO.	CONTRIBUTING DISTURBED AREA (ACRES)	STORAGE VOLUME REQUIRED* (CY)	STORAGE DEPTH REQUIRED (FT)	AREA (SF)	VOLUME PROVIDED** (CY)
1	1.49	200	2	3600	267

\*134 CY STORAGE VOLUME REQUIRED PER ACRE CONTRIBUTING AREA TO TST  
 \*\*ONE HALF WET-STORAGE, ONE HALF DRY-STORAGE



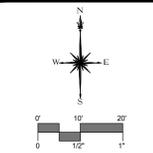
### SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002", CITY OF MERIDEN REQUIREMENTS, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

- PURPOSE AND DESCRIPTION OF PROJECT
  - THE PLAYING FIELD AND VARIOUS OTHER SITE IMPROVEMENTS TO NORTH END PARK.
  - DISTURBED AREA: ±4.3 ACRES
- IDENTIFICATION OF EROSION AND SEDIMENT CONTROL CONCERNS
  - CUTS AND FILLS ASSOCIATED WITH FIELD CONSTRUCTION.
  - PROTECTION OF EXISTING AND PROPOSED STORM DRAINAGE SYSTEM.
  - PROTECTION OF EXISTING ROADWAYS/DRIVES.

### SEDIMENT & EROSION CONTROL LEGEND

-  CONSTRUCTION ENTRANCE
-  SEDIMENT FILTER FENCE
-  SEDIMENT FILTER FENCE WITH HAYBALES
-  TEMPORARY STOCKPILE SURROUNDED WITH SEDIMENT FILTER FENCE
-  INLET PROTECTION
-  TEMPORARY SEDIMENT TRAP



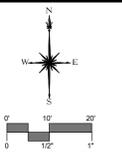
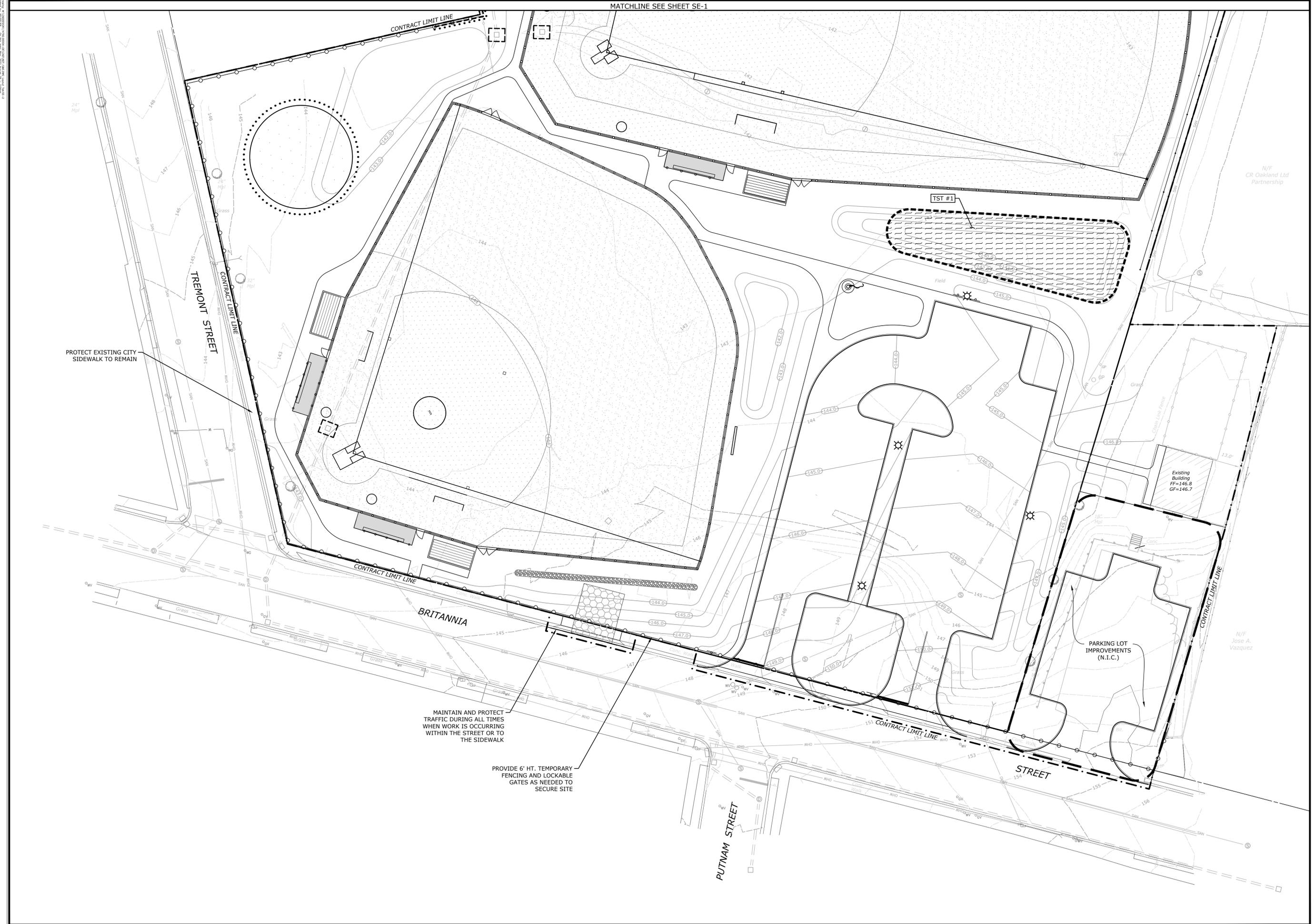
DESCRIPTION	DATE	BY

**SITE PLAN - SEDIMENT AND EROSION CONTROL**  
**NORTH END FIELD**  
**BALLFIELD RECONSTRUCTION**  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

JLL DESIGNED	KCF DRAWN	DLO CHECKED
SCALE 1"=20'		
DATE AUGUST 29, 2022		
PROJECT NO. 14792.00004		
SHEET NO. 13 OF 25		

**SE-1**  
 SHEET NAME

DATE PLOTTED: 08/29/2022 10:58:40 AM



**SLR**  
 99 REALTY DRIVE  
 SUITE 200  
 WESTPORT, CT 06894  
 TEL: 203.771.1772  
 WWW.SLRCONSULTING.COM

DESCRIPTION	DATE	BY

**SITE PLAN - SEDIMENT AND EROSION CONTROL**  
 NORTH END FIELD  
 BALLFIELD RECONSTRUCTION  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

JLL DESIGNED	KCF DRAWN	DLO CHECKED
SCALE 1"=20'		
DATE AUGUST 29, 2022		
PROJECT NO. 14792.00004		
SHEET NO. 14 OF 25		

**SE-2**

14792.00004 - 14 OF 25 - AUGUST 29, 2022 - 14792.00004 - 14 OF 25 - AUGUST 29, 2022  
 14792.00004 - 14 OF 25 - AUGUST 29, 2022 - 14792.00004 - 14 OF 25 - AUGUST 29, 2022

**SEDIMENT & EROSION CONTROL SPECIFICATIONS**

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

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

**LAND GRADING**

- GENERAL:**
- THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
    - THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
    - THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
    - THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
    - PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES
    - EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
    - NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATER BODIES.
    - PRIOR TO ANY RE-GRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

**TOPSOILING**

- GENERAL:**
- TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.
  - UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.
  - REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.
  - APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

- MATERIAL:**
- TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
  - TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
  - TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF STONES (OVER 1" IN DIAMETER), LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.
  - AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
  - SOLUBLE SALT CONTENT OF OVER 500 PARTS PER MILLION (PPM) IS LESS SUITABLE. AVOID TIDAL MARSH SOILS BECAUSE OF HIGH SALT CONTENT AND SULFUR ACIDITY.
  - THE pH SHOULD BE MORE THAN 6.0. IF LESS, ADD LIME TO INCREASE pH TO AN ACCEPTABLE LEVEL.

**APPLICATION**  
 AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.  
 SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST SIX INCHES (6"), OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.

**TEMPORARY VEGETATIVE COVER**

- GENERAL:**
- TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT. AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

- SITE PREPARATION:**
- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
  - REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
  - APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 100 SQ. FT.).
  - APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 300 LBS. OF 10-10-10 PER ACRE (7 LBS. PER 1,000 SQ. FT.) AND SECOND APPLICATION OF 200 LBS. OF 10-10-10 (5 LBS. PER 1,000 SQ. FT.) WHEN GRASS IS FOUR INCHES (4") TO SIX INCHES (6") HIGH. APPLY ONLY WHEN GRASS IS DRY.
  - UNLESS HYDROSEEDDED, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
  - TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

- ESTABLISHMENT:**
- SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
  - APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
  - UNLESS HYDROSEEDDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT.
  - MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW OR HAY MULCH AND ANCHOR TO SLOPES GREATER THAN 3% OR WHERE CONCENTRATED FLOW WILL OCCUR.

**PERMANENT VEGETATIVE COVER**

- GENERAL:**
- PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

- SITE PREPARATION:**
- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
  - REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
  - PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
  - APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
  - APPLY FERTILIZER ACCORDING TO SOIL TEST OR:

**SPREAD SEEDING:** WORK DEEPLY IN SOIL, BEFORE SEEDING, 300 LBS. OF 10-10-10 FERTILIZER PER ACRE (7 LBS. PER 1,000 SQ. FT.); THEN SIX (6) TO EIGHT (8) WEEKS LATER, APPLY ON THE SURFACE AN ADDITIONAL 300 LBS. OF 10-10-10 FERTILIZER PER ACRE. AFTER SEPTEMBER 1, TEMPORARY VEGETATIVE COVER SHALL BE APPLIED.

**FALL SEEDING:** WORK DEEPLY IN SOIL, BEFORE SEEDING, 600 LBS. OF 10-10-10 FERTILIZER PER ACRE (14 LBS. PER 1,000 SQ. FT.).

**VEGETATIVE COVER SELECTION & MULCHING**

- TEMPORARY VEGETATIVE COVER:**  
 PERENNIAL RYEGRASS 3 LBS./1,000 SQ.FT. (LOLIUM PERENNE)
- PERMANENT VEGETATIVE COVER:**
- 10% AMERICAN KENTUCKY BLUEGRASS
  - 10% VICTORY II CHEWINGS FESCUE
  - 20% \*JASPER II CREEPING RED FESCUE
  - 20% SPARTAN HARD FESCUE
  - 30% \*CUTTER PERENNIAL RYE GRASS
- \*HIGH ENDOPHYTE

- SEEDING RATE - 220 POUNDS PER 43,560 SF**
- TEMPORARY MULCHING:**  
 STRAY OR HAY 70-90 LBS./1,000 SQ.FT. (TEMPORARY VEGETATIVE AREAS)
- WOOD FIBER IN HYDROMULCH SLURRY 25-50 LBS./1,000 SQ. FT.**

- ESTABLISHMENT:**
- SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
  - SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPEC. BELOW).
  - APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
  - COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
  - MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
  - USE PROPER INOCULANT ON ALL LEGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATES WHEN HYDROSEEDING.
  - USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

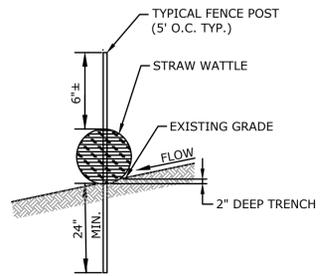
- MAINTENANCE:**
- TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED.
  - ON SITES WHERE GRASSES PREDOMINATE, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (12 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.
  - ON SITES WHERE LEGUMES PREDOMINATE, BROADCAST EVERY THREE (3) YEARS OR AS INDICATED BY SOIL TEST 300 POUNDS OF 0-20-20 OR EQUIVALENT PER ACRE (8 LBS PER 1,000 SQ. FT.).

**EROSION CHECKS**

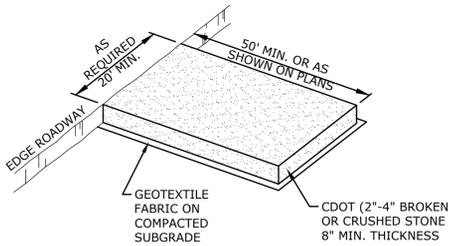
- GENERAL:**
- TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

- CONSTRUCTION:**
- BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
  - EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
  - BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
  - GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').

- INSTALLATION AND MAINTENANCE:**
- BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
  - BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
  - ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
  - INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  - EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

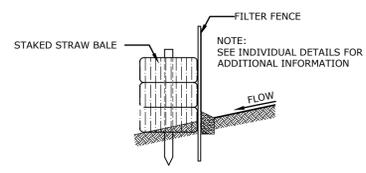


**WATTLE ON BARE SOIL**  
 N.T.S.

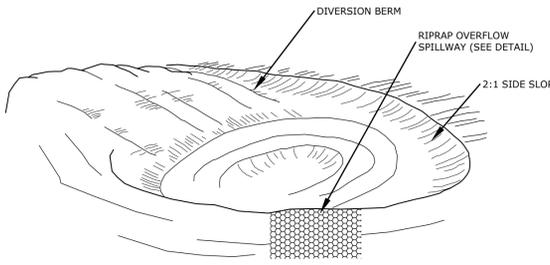


**NOTE:**  
 CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH PROMOTE VEHICULAR TRACKING OF MUD

**CONSTRUCTION ENTRANCE PAD**  
 N.T.S.

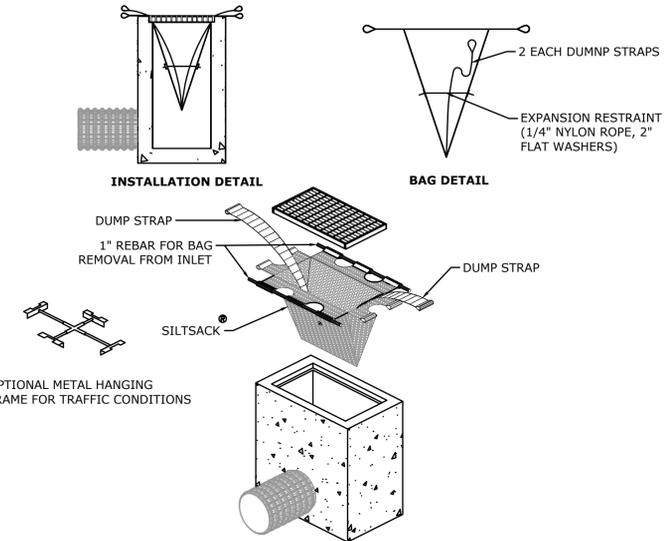


**SEDIMENT FILTER FENCE WITH STAKED HAYBALES**  
 N.T.S.

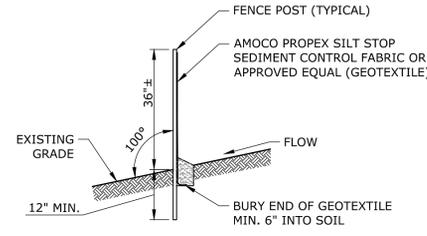


**NOTES:**  
 REFER TO SEDIMENT & EROSION CONTROL PLAN FOR APPROXIMATE DIMENSIONS AND REQUIRED VOLUME.  
 SOURCE: 2002 CT. GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL

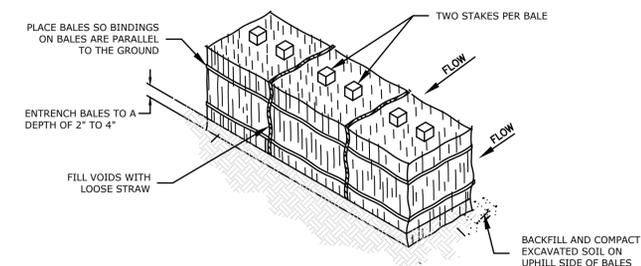
**TEMPORARY SEDIMENT TRAP**  
 NOT TO SCALE



**INLET PROTECTION**  
 N.T.S.

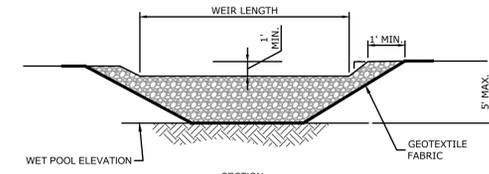


**SEDIMENT FILTER FENCE**  
 NOT TO SCALE



- IDEALLY, BALES SHOULD BE ENTRENCHED 2 TO 4 INCHES AND TIGHTLY BUTTED TOGETHER. BALES CAN BE SUCCESSFULLY PLACED WITHOUT A TRENCH IF GOOD GROUND CONTACT IS MADE. REMOVE HEAVY BRUSH AND FILL ALL VOIDS WITH LOOSE STRAW.
- BALES SHALL BE ONLY USED AS A TEMPORARY BARRIER AND FOR NO LONGER THAN 60 DAYS.
- WHEN SEDIMENTATION DEPOSITS REACH WITHIN 3" OF THE TOP OF BALES, REMOVE SEDIMENTATION OR ADD ADDITIONAL BALES ON SEDIMENTATION DIRECTLY BEHIND FIRST ROW OF BALES AS DIRECTED BY THE ENGINEER.
- UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS AND WHEN DIRECTED BY THE ENGINEER, HAY BALES WILL BE RELOCATED AND USED AS MULCH. ANY SEDIMENTATION WILL BE THINLY SPREAD UPON ESTABLISHED GROUND COVER.

**STAKED HAYBALES**  
 N.T.S.



**SEDIMENT TRAP RIPRAP OVERFLOW SPILLWAY**  
 NOT TO SCALE

SOURCE: 2002 CT. GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL

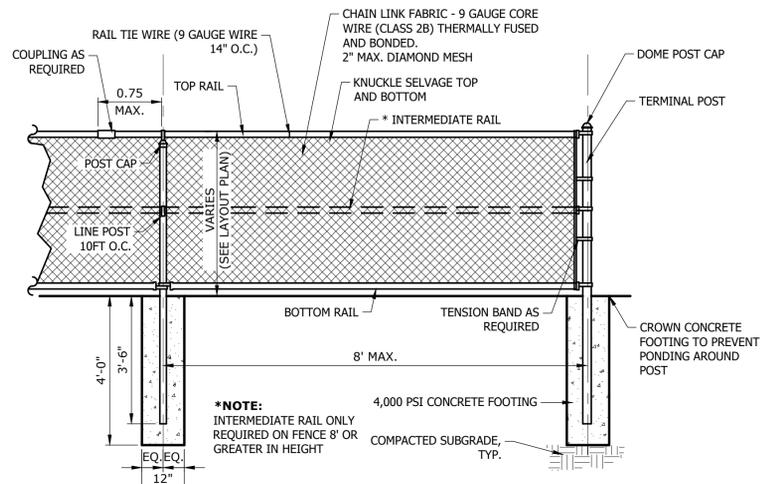


DESCRIPTION	DATE	BY

**SITE DETAILS**  
 NORTH END FIELD  
 BALLFIELD RECONSTRUCTION  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

KCF DESIGNED	GB DRAWN	KCF CHECKED
SCALE N.T.S.		
DATE AUGUST 29, 2022		
PROJECT NO. 14792.00004		
SHEET NO. 15 OF 25		

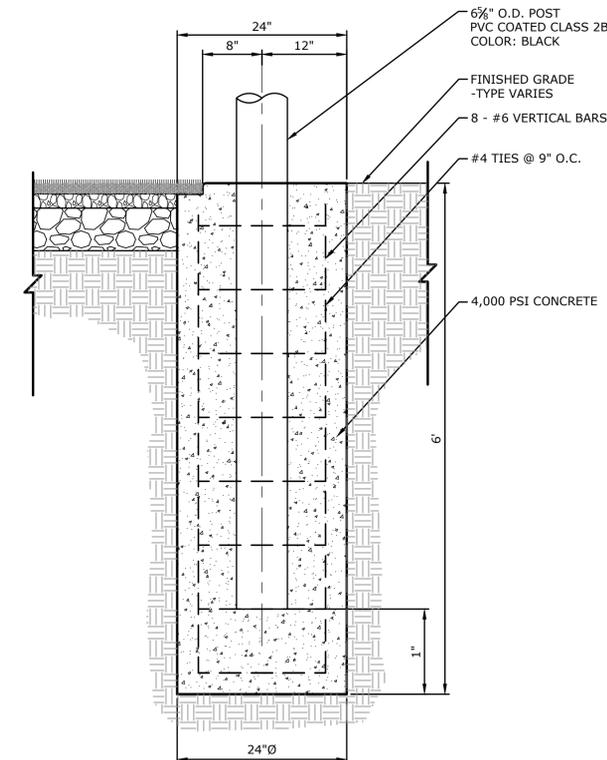
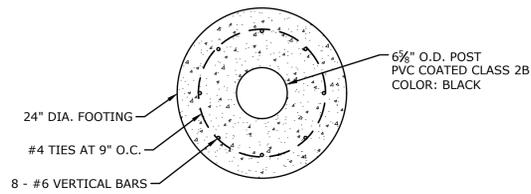
**SE-3**



CHAIN LINK FENCE POST AND RAIL SIZING		
POST OR RAIL TYPE	6 FT HIGH FENCE	8 FT HIGH FENCE
TERMINAL OR COMMON	2-7/8"	2-7/8"
LINE POST	2-3/8"	2-3/8"
TOP RAIL	1-5/8"	1-5/8"
INTERMEDIATE RAIL	NONE	1-5/8"
BOTTOM RAIL	1-5/8"	1-5/8"
GATE POST	2-7/8"	2-7/8"
GATE FRAME	1-7/8"	1-7/8"

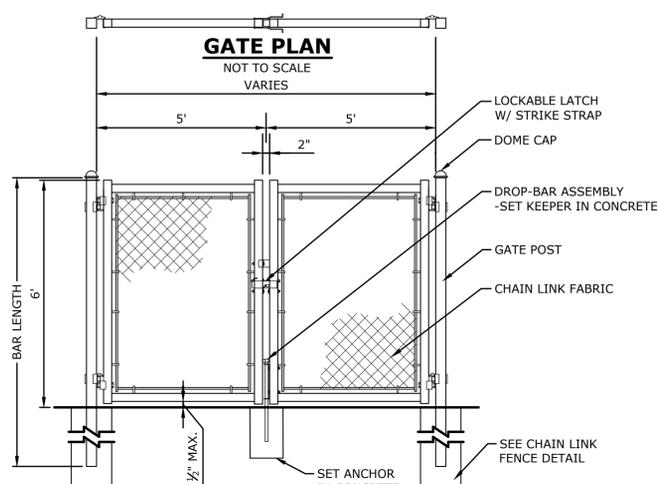
ALL POSTS TO BE ROUND

**CHAIN LINK FENCE**  
NOT TO SCALE



NOTES:  
1. REFER TO FLUSH CONCRETE CURB DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.

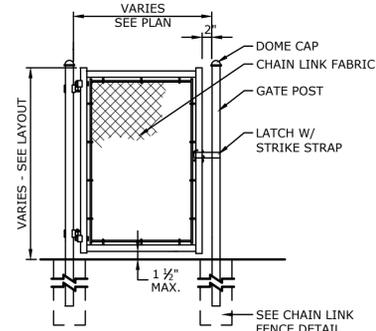
**30' BACKSTOP FOUNDATION DETAIL**  
NOT TO SCALE



**DOUBLE CHAIN LINK FENCE GATE**  
NOT TO SCALE

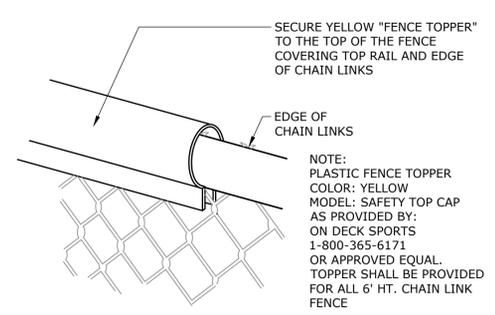
DOUBLE LEAF GATES		
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	SQ & RND SIZES	POST TO UPRIGHT
10'-0"	2 7/8" OR 2.875" OD	FOR SQUARE & ROUND GATE POSTS: 2 7/8"

NOTES:  
1. MATERIALS AND METHOD OF CONSTRUCTION SHALL CONFORM TO CHAIN LINK FENCE DETAIL ON THIS SHEET.  
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS.  
3. ALL CHAIN LINK POSTS, RAILS, FABRIC, AND HARDWARE TO HAVE THERMALLY FUSED AND BONDED PVC. COLOR: BLACK



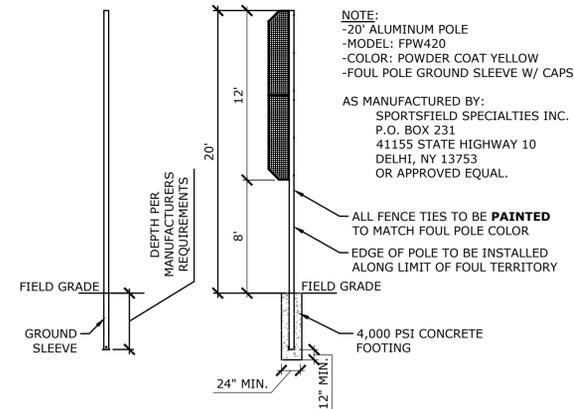
**SINGLE CHAIN LINK FENCE GATE**  
N.T.S.

NOTES:  
1. MATERIALS AND METHOD OF CONSTRUCTION SHALL CONFORM TO CHAIN LINK FENCE DETAIL ON THIS SHEET  
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS  
3. GATE SWINGING DIRECTION:  
3.1. ALL SWING GATES ADJACENT TO SYNTHETIC TURF SHALL SWING AWAY FROM THE SYNTHETIC TURF SURFACE.  
3.2. ALL SWING GATES ADJACENT TO LAWN OR ASPHALT SHALL SWING ONTO THE ASPHALT UNLESS SHOWN OTHERWISE ON THE PLANS.  
3.3. PROVIDE STOP AS REQUIRED TO PREVENT SWINGING OF GATE TOWARDS THE SYNTHETIC SURFACE.  
4. ALL CHAIN LINK POSTS, RAILS, FABRIC, AND HARDWARE TO HAVE THERMALLY FUSED AND BONDED PVC. COLOR BLACK

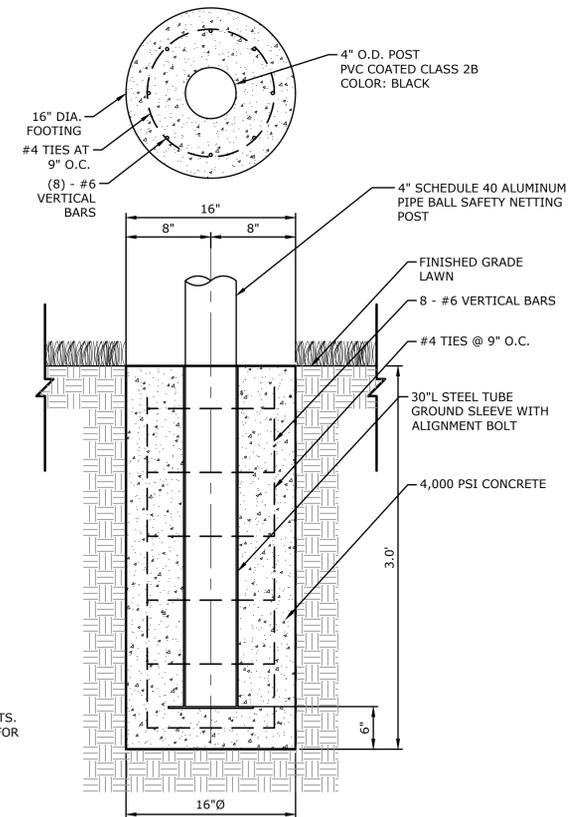


**FENCE TOPPER**  
NOT TO SCALE

NOTE:  
PLASTIC FENCE TOPPER  
COLOR: YELLOW  
MODEL: SAFETY TOP CAP  
AS PROVIDED BY:  
ON DECK SPORTS  
1-800-365-6171  
OR APPROVED EQUAL.  
TOPPER SHALL BE PROVIDED FOR ALL 6' HT. CHAIN LINK FENCE

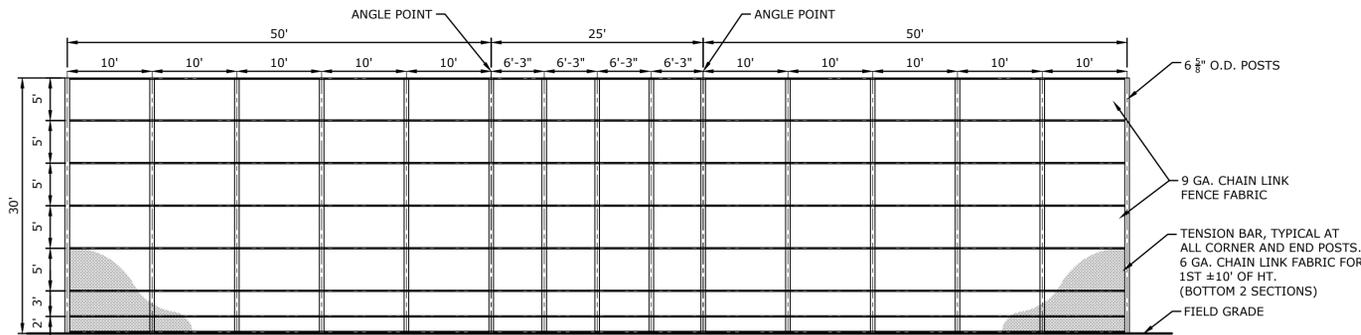


**FOUL POLE DETAIL (W/ WING)**  
NOT TO SCALE

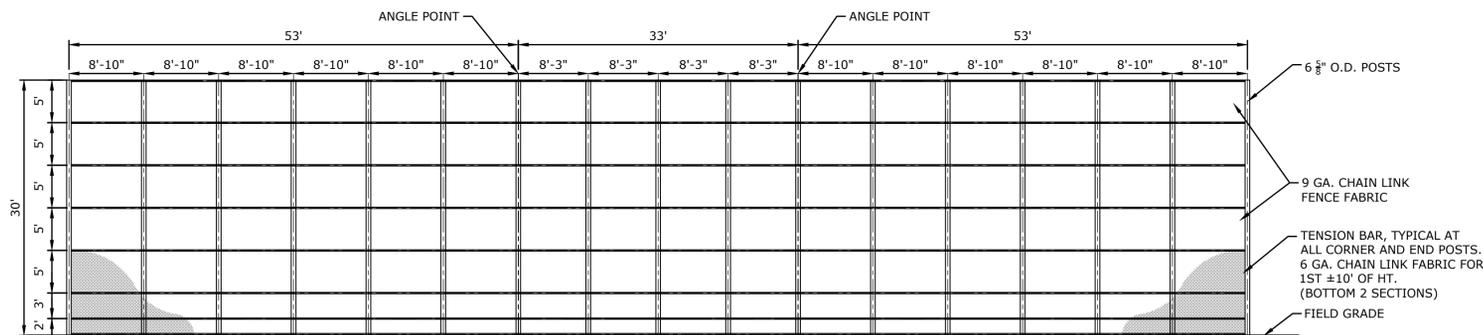


NOTES:  
BALL SAFETY NETTING SYSTEM TO BE MODEL: BSS420 AS MANUFACTURED BY: SPORTSFIELD SPECIALTIES OR APPROVED EQUAL. SPACE POSTS AT 20' ON CENTER.

**20' HT. BALL SAFETY NETTING**  
N.T.S.



**30' HT. CHAIN LINK FENCE SOFTBALL BACKSTOP**  
N.T.S.



**30' HT. CHAIN LINK FENCE BASEBALL BACKSTOP**  
N.T.S.

NOTES:  
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.  
2. THE GAP BETWEEN THE BOTTOM RAIL AND FINISHED GRADE SHALL NOT EXCEED 1".  
3. ALL RAILS SHALL BE 1-5/8" O.D.  
4. ALL POSTS, RAILS, FABRIC AND HARDWARE SHALL HAVE A FUSED AND BONDED PVC POWDER COAT, COLOR: BLACK.  
5. KNUCKLE SELVAGE OF CHAIN LINK FABRIC, TOP AND BOTTOM.

DESCRIPTION

DATE

BY

**SITE DETAILS**  
NORTH END FIELD  
BALLFIELD RECONSTRUCTION  
210 BRITANNIA STREET  
MIDDLETOWN, CONNECTICUT

KCF GB KCF  
DESIGNED DRAWN CHECKED

N.T.S.

AUGUST 29, 2022

14792.00004

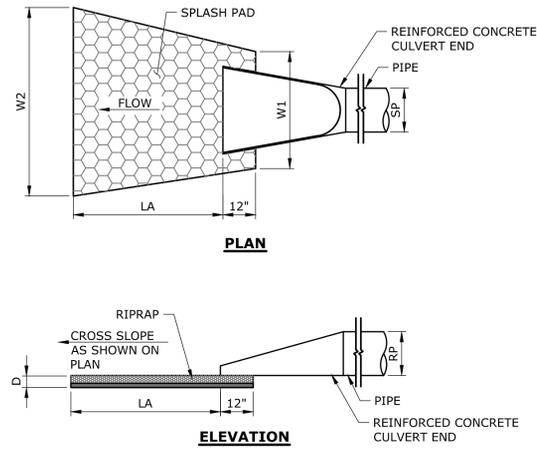
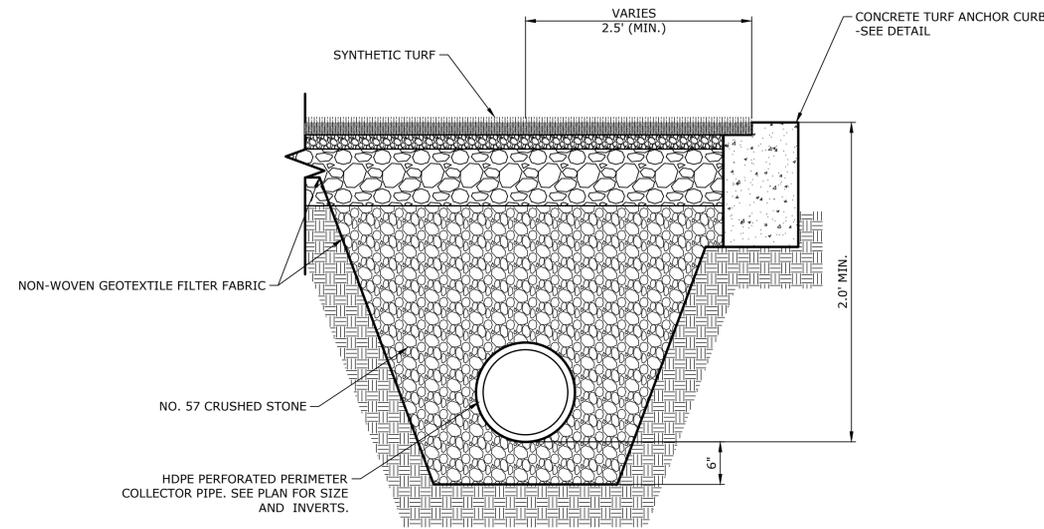
16 OF 25

**SD-1**



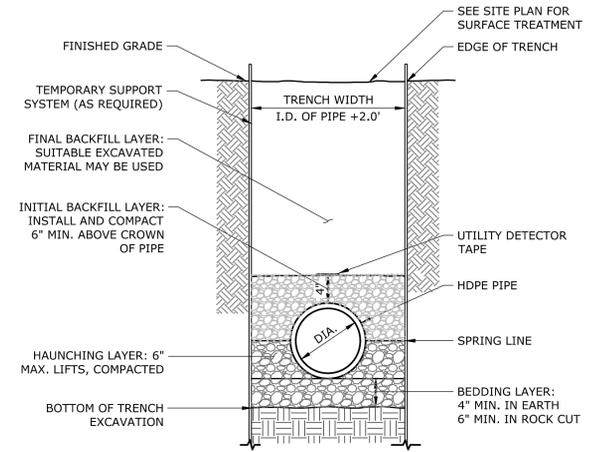


SHEET NO. SD-4 OF 25  
 DATE: AUGUST 29, 2022  
 PROJECT NO. 14792.00004  
 DRAWN BY: J. [unreadable]  
 CHECKED BY: [unreadable]



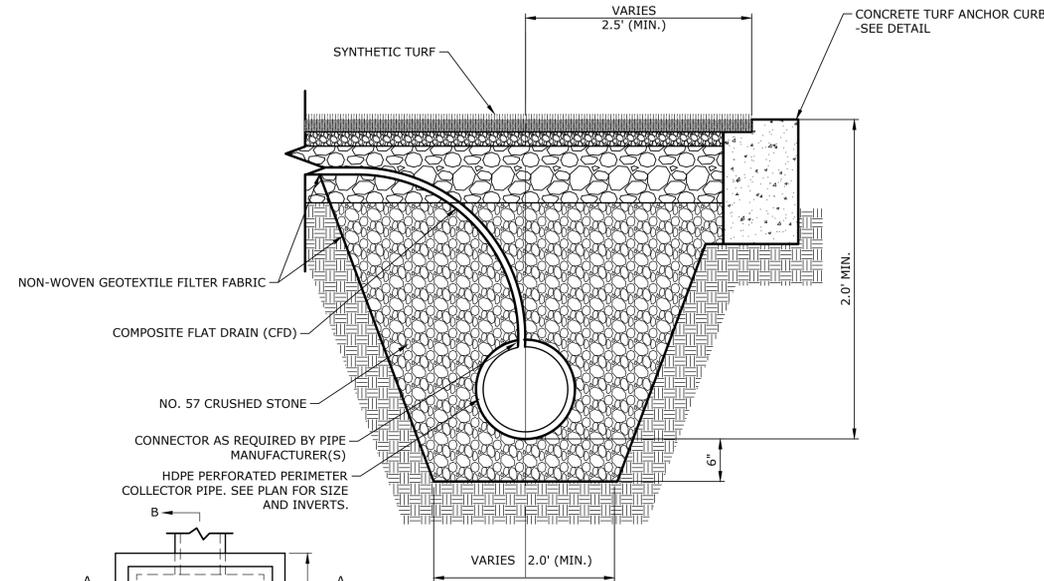
OUTLET PROTECTION ID	TYPE	SP (FT)	RP (FT)	LA (FT)	W1 (FT)	W2 (FT)	D (IN)
FES ANALYSIS POINT C	TYPE B INTER-MEDIATE	1.25	1.25	10.0	4.0	7.0	12

**FLARED END WITH RIP RAP SPLASH PAD**  
NOT TO SCALE

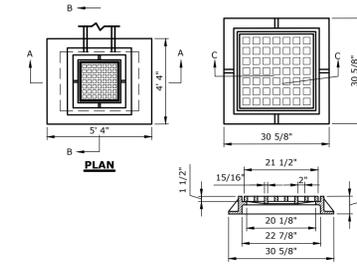


- NOTES:**
- BACKFILL MATERIAL USED IN BEDDING, HAUNCHING, AND INITIAL BACKFILL LAYERS SHALL BE 3/4" CRUSHED STONE.
  - PAYMENT LIMIT FOR ROCK IN TRENCH TO BE PIPE DIAMETER + 2.0'

**STORM DRAINAGE TRENCH**  
NOT TO SCALE

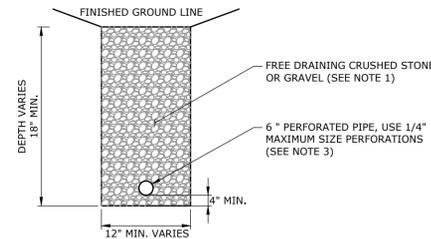


**COLLECTOR PIPE SECTION**  
NOT TO SCALE



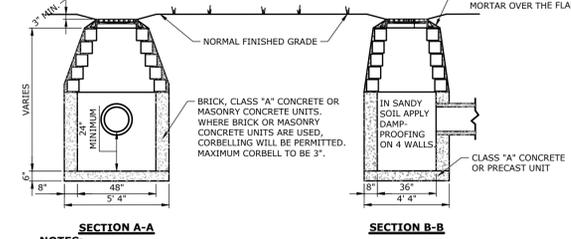
**YARD DRAIN FRAME & GRATE**  
NOT TO SCALE

- NOTES:**
- YARD DRAIN FRAMES & GRATES SHALL BE PATTERN #R-3404 AS MANUFACTURED BY THE "NEENAH FOUNDRY COMPANY" OF NEENAH, WISCONSIN, OR APPROVED EQUAL.
  - SET FRAME AND GRATE IN BED OF MORTAR AND SEAL JOINT BY MOUNDING MORTAR OVER THE FLANGE.



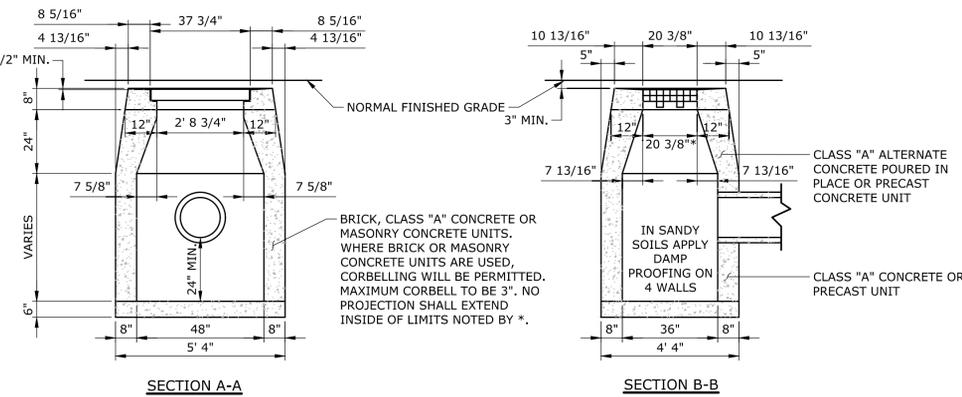
- NOTES:**
- SEE NARRATIVE FOR GRADATION REQUIREMENTS, ENVELOPE AND FILTER MATERIALS.
  - IF SURFACE WATER IS TO BE INTERCEPTED, EXTEND CRUSHED STONE OR GRAVEL TO THE GROUND SURFACE.
  - CONDUIT MAY BE HEAVY DUTY PERFORATED HIGH DENSITY POLYETHYLENE OR DRILLED P.V.C. SPR 35

**FRENCH DRAIN**  
NOT TO SCALE



- NOTES:**
- WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.

**YARD DRAIN**  
NOT TO SCALE



- NOTES:**
- WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.

**TYPE "C-L" CATCH BASIN**  
NOT TO SCALE

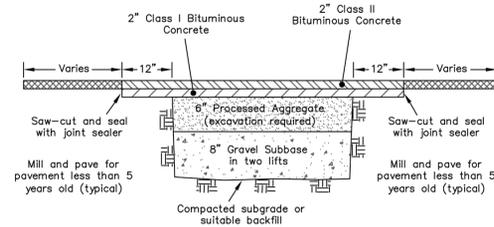


DESCRIPTION	DATE	BY

**SITE DETAILS**  
 NORTH END FIELD  
 BALLFIELD RECONSTRUCTION  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

KCF	GB	KCF
DESIGNED	DRAWN	CHECKED
SCALE: N.T.S.		
DATE: AUGUST 29, 2022		
PROJECT NO.: 14792.00004		
SHEET NO.: 19 OF 25		
<b>SD-4</b>		

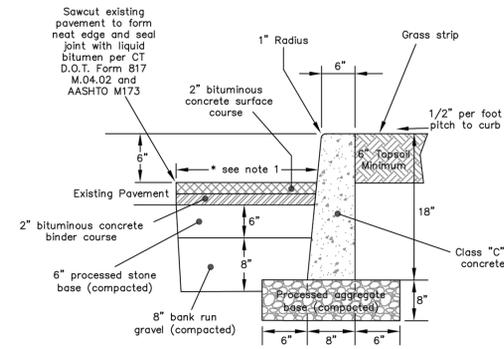




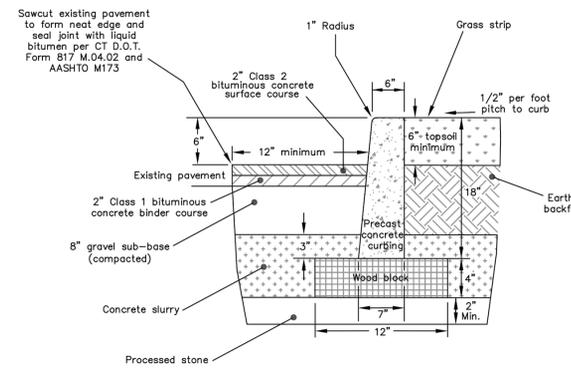
NOTE: Match existing pavement thickness up to 9" with Class I bituminous concrete in 3" maximum lifts.

**Permanent Pavement Repair Detail**

Not To Scale

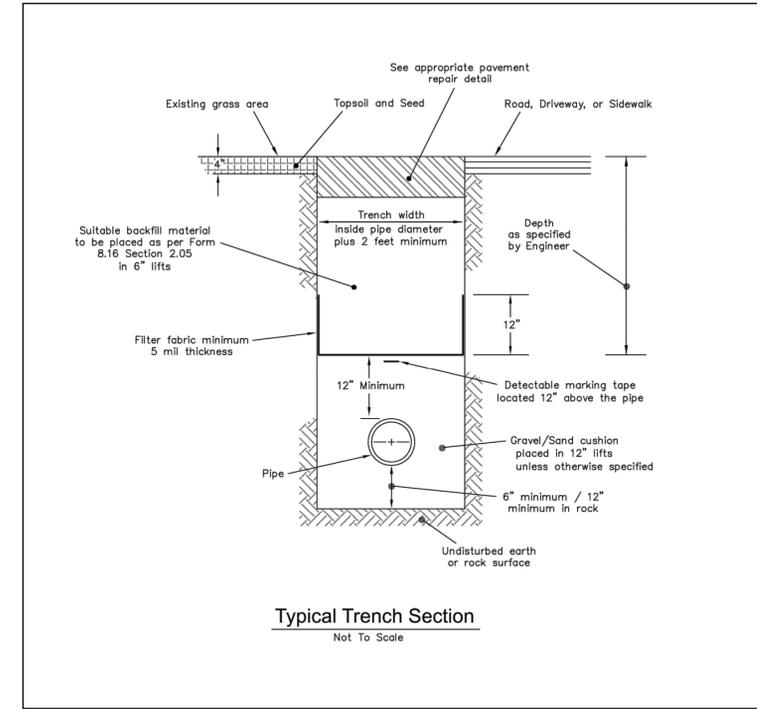


**Poured in Place Concrete Curb**



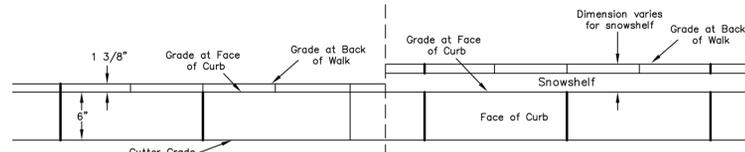
**Precast Concrete Curb Detail**

Not To Scale



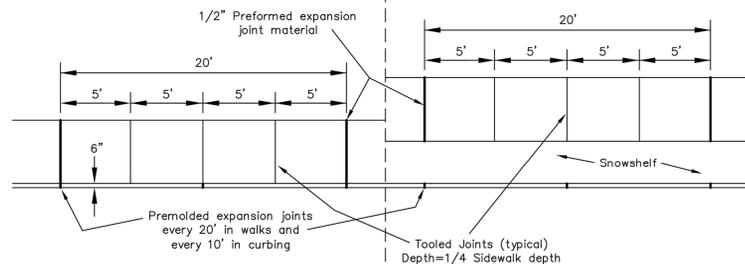
**Typical Trench Section**

Not To Scale



**Profile**

**Profile**



**Monolithic Sidewalk Plan**

CONCRETE SHALL BE CLASS 'C' AND 3300 PSI OR BETTER (N.T.S.)

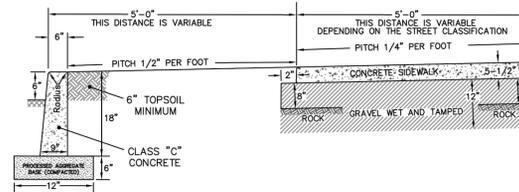
**Concrete Curbing and Walk**

(N.T.S.)

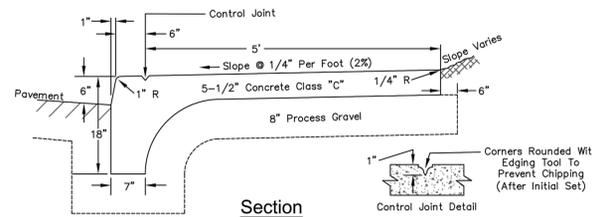
**CURBING**  
CONCRETE CURBING WILL BE INSTALLED IN ACCORDANCE WITH STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FORM 817, SECTION 8.11 EXCLUDING PARAGRAPHS 8.11.04 AND 8.11.05 FOR MEASUREMENT AND PAYMENT.

**CONCRETE WALKS**  
CONCRETE WALKS WILL BE INSTALLED IN ACCORDANCE WITH STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FORM 817, SECTION 9.21 EXCLUDING PARAGRAPHS 9.21.04 AND 9.21.05 FOR MEASUREMENT AND PAYMENT.

NOTE: Sidewalks must be formed with 2"x6" lumber or 5-1/2" high metal or wood forms



**Typical Curb & Sidewalk**



**Typical Monolithic Curb & Sidewalk**

NOTE: Sidewalks must be formed with 2"x6" lumber or 5-1/2" high metal or wood forms



DESCRIPTION	DATE	BY

CITY OF MERIDEN STANDARD DETAILS  
NORTH END FIELD  
BALLFIELD RECONSTRUCTION  
210 BRITANNIA STREET  
MERIDEN, CONNECTICUT

KCF	GB	KCF
DESIGNED	DRAWN	CHECKED
N.T.S.		
AUGUST 29, 2022		
14792.00004		
21 OF 25		

SD-6

# ELECTRICAL GENERAL NOTES

- UNLESS OTHERWISE INDICATED, FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.
- ELECTRICAL PLANS AND DETAILS, AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL CONDUIT BODIES, CONNECTORS, BENDS, FITTINGS, HANGERS, AND ADDITIONAL PULL AND JUNCTION BOXES WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE ELECTRICAL SYSTEM.
- ALL EQUIPMENT AND MATERIAL SHALL BE LABELED AND LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE GOVERNING AUTHORITIES.
- ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE GOVERNING AUTHORITY.
- THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE NATIONAL ELECTRICAL CODE, 2017 EDITION.
- THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".
- THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".
- THE TERM "SPACE" ON PANEL BOARD AND SWITCHBOARD SCHEDULES SHALL MEAN "PROVIDE SPACE TO INSTALL THE NUMBER OF POLES AND SIZE OF THE PROTECTIVE DEVICE INDICATED WITH ALL THE NECESSARY BUS AND FITTINGS TO INSTALL THE DEVICE AT SOME FUTURE DATE".
- COORDINATE ELECTRICAL WORK WITH OWNER.
- COORDINATE ELECTRICAL WORK WITH OTHER DIVISIONS OF THIS PROJECT.
- BEFORE SELECTING MATERIAL AND EQUIPMENT, AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY, AND CHECK NEEDED SPACE FOR REPLACEMENT, CLEARANCES AND INTERCONNECTIONS.
- BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, 2017 EDITION.

# ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	HANDHOLE / PULL BOX
	DUPLEX RECEPTACLE / OUTLET
	QUADRUPLER RECEPTACLE / OUTLET
	POLE MOUNTED PARKING LOT LIGHT FIXTURE - REFER TO SCHEDULE ON DRAWING ES-1 FOR ADDITIONAL INFORMATION

# ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
A	AMPERES
AC	ALTERNATING CURRENT (60 HZ)
A/C	AIR CONDITIONING
ADA	AMERICANS WITH DISABILITIES ACT
AF/CI	ARC FAULT CIRCUIT INTERRUPTER
AFV	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BF	BALLAST FACTOR
BR	BRANCH
C	CONDUIT
CB	CIRCUIT BREAKER
CIR	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
D	DISHWASHER
DISC	DISCONNECT
DW	DISHWASHER
DWG	DRAWING
DWU	DISTILLED WATER UNIT
E	EXISTING TO REMAIN
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EX/ETR	EXISTING EQUIPMENT TO REMAIN
FDR	FEEDER
FL	FLOOR
FEET	FEET
GF/CI/CI	GROUND-FAULT CIRCUIT-INTERRUPTER
GFI	GROUND-FAULT CIRCUIT EQUIPMENT BREAKER
GFP	GROUND-FAULT PROTECTION
GRD	GROUND
H	HEAD DETECTOR
HD	HAND-HOLE
HP	HORSEPOWER
IG	INSULATED GROUND
IM	ICE MAKER
IMP	IMPEDANCE
IN	INCHES
J	JUNCTION
KA	KILO AMPERE
Kcmils	KILO CIRCUM CIRCUIT MILLS
KV	KILOVOLT
KW	KILO VOLT-AMPERE
Im	KILOWATT
LP	LIGHTING PANELBOARD
LTG	LIGHTING
M	METER
MC	MOTOR CONTROLLER
MCB	MAIN CIRCUIT BREAKER
MCC/MCB	MOLDED CASE CIRCUIT BREAKER
MCS	MOTOR-CIRCUIT SWITCH
MDP	MAIN DISTRIBUTION PANELBOARD
NFPA	NATIONAL FIRE ALARM CODE
MLO	MAIN LUG ONLY
MW	MICROWAVE OVEN
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOC.
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NEUT	NEUTRAL
NF	NONFUSED
NIC	NOT IN CONTRACT
NL	NEW LOCATION OF RELOCATED ITEM
N.T.S.	NOT TO SCALE
OC	OVERCURRENT
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PC	PHOTO CELL
PH	PHASE
PNL	PANELBOARD
PRI	PRIMARY
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PWR	POWER
R	REMAIN
RE	REMOVE EXISTING ITEM
RECP/T	RECEPTACLE
RGS	RIGID GALVANIZED STEEL CONDUIT
RL	RELOCATE EXISTING ITEM
RM	ROOM
RNC	RIGID NONMETALLIC CONDUIT
REF	REFRIGERATOR
RSC	RIGID STEEL CONDUIT
RT	RAINTIGHT
S	SMOKE DETECTOR
SC	SERVICE CONDUCTORS
SCHD	SCHEDULE
SCR	SHORT-CIRCUIT RATING
SD	SERVICE DROP
SE	SERVICE EQUIPMENT
SEC	SECONDARY
ST	STUNT TRIP
SURF	SURFACE
SV	SOLENOID VALVE
SW	SWITCH
SYM	SYMMETRICAL
SYMB	SYMBOL
TC	TIME CONTROLLER
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
U.O.N.	UNLESS OTHERWISE NOTED
UTIL	UTILITY
UV/R	UNDER VOLTAGE RELEASE
V	VOLTS
VA	VOLT-AMPERES
W	WATTS
WG	WIRE GUARD
WP	WALL PHONE OR WEATHERPROOF
WH	WEIGHT IN POUNDS
WT	WATERTIGHT
X	REMOVE
XFMR	TRANSFORMER
%	PERCENT
#	NUMBER
'	FEET
"	INCHES

# ELECTRICAL SPECIFICATIONS

## PART 1 - GENERAL PROVISIONS FOR ELECTRICAL WORK

### REFERENCES

THIS SECTION COVERS THE GENERAL REQUIREMENTS FOR ELECTRICAL WORK. EXAMINE ALL CONTRACT DRAWINGS AND ALL OTHER SECTIONS OF THE SPECIFICATIONS FOR ADDITIONAL WORK RELATED TO THE WORK OF THIS DIVISION.

### DEFINITIONS

"PROVIDE" - TO FURNISH, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION OF PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.

"INSTALL" - TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.

"WORK" - LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.

"WIRING" - RACEWAY, FITTINGS, WIRE, BOXES, MOUNTING HARDWARE AND RELATED ITEMS.

"CONCEALED" - EMBEDDED IN MASONRY OR OTHER CONSTRUCTION CAVITY, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS.

"SIMILAR OR EQUAL" - EQUAL MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.

"CONTRACTOR" - THE ELECTRICAL CONTRACTOR.

"NOTED" - AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.

### SCOPE

THIS WORK SHALL CONSIST OF THE FURNISHINGS OF ALL LABOR, MATERIALS AND SERVICES REQUIRED COMPLETE, READY FOR CORRECT OPERATION FOR ALL ELECTRICAL WORK CALL FOR BY THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.

THE DATA INDICATED IN THESE DRAWINGS AND SPECIFICATIONS ARE AS EXACT AS COULD BE SECURED. BUT THEIR ABSOLUTE ACCURACY IS NOT GUARANTEED. DO NOT SCALE DRAWINGS. EXACT LOCATIONS, DISTANCES, LEVELS AND OTHER CONDITIONS WILL BE GOVERNED BY THE BUILDING. USE THE DRAWINGS AND SPECIFICATIONS FOR GUIDANCE AND SECURE THE ENGINEER'S APPROVAL OF CHANGES IN LOCATIONS, CIRCUITS, WHERE SHOWN ON AN ELECTRICAL DRAWING, ARE SO INDICATED PRIMARILY FOR THE PURPOSE OF INDICATING THE GENERAL CIRCUIT PLAN AND DO NOT NECESSARILY INDICATE THE EXACT LOCATION OF ROUTING OF THE RACEWAYS. UNLESS SPECIFICALLY INDICATED, CIRCUITS SHALL BE RUN IN SUITABLE CONDITIONS CONSIDERING STRUCTURAL FEATURES, OTHER TRADES, CONSTRUCTION METHODS AND GOOD INSTALLATION PRACTICE.

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDUIT UNDER WHICH THE WORK AND WORK OF OTHER TRADES WILL BE INSTALLED. THIS CONTRACT INCLUDES ALL NECESSARY OFFSETS, TRANSITIONS, MODIFICATIONS AND RELOCATION REQUIRED TO INSTALL ALL NEW EQUIPMENT IN NEW OR EXISTING SPACES. CONTRACTOR SHALL INCLUDE ANY MODIFICATIONS REQUIRED IN EXISTING ELECTRICAL EQUIPMENT FOR INSTALLATION OF NEW ELECTRICAL EQUIPMENT AND NEW EQUIPMENT OF OTHER TRADES (LIGHTING FIXTURES, DEVICES, CONDUIT WIRING, ETC.) ALL NEW AND EXISTING EQUIPMENT AND SYSTEMS SHALL BE FULLY OPERATIONAL UNDER THIS CONTRACT BEFORE THE PROJECT IS CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS THAT ARE MADE. ANY OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS OF ALL TRADES.

### CODES, REGULATIONS AND STANDARDS

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING APPROVED CODES:

- STATE DEMOLITION CODE
- STATE BUILDING CODE
- STATE FIRE SAFETY CODE
- LOCAL BUILDING CODE
- IBC - INTERNATIONAL BUILDING CODE
- NFPA - NATIONAL FIRE PROTECTION CODE
- ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
- ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
- OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- U.L. - UNDERWRITERS LABORATORIES
- NFPA 101 - LIFE SAFETY CODE
- NFPA 99 - HEALTH FACILITIES CODE
- NFPA 70 - NATIONAL ELECTRICAL CODE
- NFPA 72 - NATIONAL FIRE ALARM CODE
- EPA - ENVIRONMENTAL PROTECTION AGENCY
- IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
- NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- IEC - INTERNATIONAL ENERGY CONSERVATION CODE
- ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

### PERMITS, FEES AND INSPECTIONS

THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, PAY FOR ALL GOVERNMENT, STATE SALES TAXES AND APPLICABLE FEES. THE CONTRACTOR SHALL FILE ALL DRAWINGS, COMPLETE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS FROM THE PROPER AUTHORITY OR AGENCY HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION COVERING WORK. THE CONTRACTOR SHALL SEE THAT ALL REQUIRED INSPECTIONS AND TESTS ARE MADE AND SHALL COOPERATE TO MAKE THESE TESTS AS THOROUGH AND AS READILY MADE AS POSSIBLE.

### MATERIALS AND WORKMANSHIP

ALL MATERIALS AND APPARATUS REQUIRED FOR THE WORK, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE NEW AND OF FIRST-CLASS QUALITY. IT SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED, FINISHED IN EVERY DETAIL AND SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES, WHERE NO SPECIFIC KIND OR QUALITY MATERIAL IS GIVEN, A FIRST-CLASS STANDARD ARTICLE AS ACCEPTED BY THE ENGINEER SHALL BE FURNISHED.

ALL EQUIPMENT AND MATERIALS SHALL BE SPECIFICATION GRADE AND BEAR THE UNDERWRITERS LABEL. NO SUBSTITUTE OR ALTERNATE MATERIAL, ETC. WILL BE CONSIDERED FOR THIS PROJECT.

ALL WORK SHALL BE OF A QUALITY CONSISTENT WITH GOOD TRADE PRACTICE AND SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. THE ENGINEER/OWNER RESERVES THE RIGHT TO REJECT ANY WORK WHICH, IN HIS OPINION, HAS BEEN INSTALLED IN A SUBSTANDARD, DANGEROUS OR IN A UNSERVICEABLE MANNER. THE CONTRACTOR SHALL REPLACE REJECTED WORK IN A SATISFACTORY MANNER AT NO EXTRA COST TO THE OWNER.

### GUARANTEES

ALL WORKMANSHIP AND MATERIALS SHALL BE FULLY GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE ENTIRE INSTALLATION COVERED BY THIS CONTRACT. SHOULD ANY DEFECTS OCCUR DURING THE GUARANTEED PERIOD, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE EQUIPMENT, MATERIAL AND/OR WORK AT NO EXTRA CHARGE TO THE OWNER.

### RECORD DRAWINGS

MAINTAIN, AT THE JOB SITE, A SET OF ELECTRICAL DRAWINGS INDICATING ALL CHANGES IN LOCATION OF THE EQUIPMENT, PANELS, DEVICES, ETC. FROM THE ORIGINAL LAYOUT. CLEARLY MARK IN RED ALL CHANGES ON THE DRAWINGS. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL TURN OVER THE RECORD DRAWINGS TO THE ENGINEER/OWNER.

### COORDINATION

ALL WORK SHALL BE CARRIED OUT IN CONJUNCTION WITH OTHER TRADES AND FULL COOPERATION SHALL BE GIVEN IN ORDER THAT ALL WORK MAY PROCEED WITH A MINIMUM OF DELAY AND INTERFERENCE.

### SHOP DRAWINGS

SUBMIT ELECTRONIC COPIES FOR REVIEW. DETAILED SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIAL SPECIFIED. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ENGINEER FOR REVIEW. NO MATERIAL OR EQUIPMENT MAY BE DELIVERED TO THE JOB SITE OR INSTALLED UNTIL CONTRACTOR HAS IN THEIR POSSESSION APPROVED SHOP DRAWINGS FOR THE PARTICULAR MATERIAL OR EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFIC WITH ITEMS SUBMITTED FOR APPROVAL CLEARLY IDENTIFIED.

### THE FOLLOWING IS A LIST OF ELECTRICAL ITEMS THAT MUST BE SUBMITTED FOR REVIEW:

- LIGHTING FIXTURES, DRIVERS AND OTHER RELATED COMPONENTS
- LIGHTING CONTROLS SYSTEM
- CONDUIT WIRE AND CABLE
- DEVICES (E.G. RECEPTACLES)
- HANDHOLES / PULLBOXES
- PANELBOARD
- UTILITY METER SOCKET

### OPERATING INSTRUCTIONS

THE CONTRACTOR SHALL FURNISH TO THE OWNER ELECTRONIC SETS OF TYPEWRITTEN OR BLUEPRINTED INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT INCLUDED IN THIS DIVISION. MANUFACTURER'S ADVERTISING LITERATURE OR CATALOGS WILL NOT BE ACCEPTED FOR OPERATING AND MAINTENANCE INSTRUCTIONS.

THE CONTRACTOR, IN THE ABOVE-MENTIONED INSTRUCTIONS, SHALL INCLUDE THE MAINTENANCE SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED UNDER THIS DIVISION.

AN AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL ATTEST IN WRITING THAT HIS EQUIPMENT HAS BEEN PROPERLY INSTALLED PRIOR TO STARTUP. THESE LETTERS WILL BE BOUND INTO OPERATING AND MAINTENANCE BOOKS.

### EQUIPMENT PROTECTION

PROPERLY AND COMPLETELY PROTECT AGAINST ALL DAMAGE, ALL APPARATUS, EQUIPMENT, ETC., INCLUDED IN THIS CONTRACT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO FURNISHED APPARATUS, EQUIPMENT, ETC., UNTIL FINAL ACCEPTANCE.

### PROPERTY PROTECTION

THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY AND/OR REQUIRED TO PROTECT OWNER'S PROPERTY WITHIN THE WORKING AREAS FROM DUST, DEBRIS AND OTHER MATTER GENERATED BY THE WORK. NO WORK SHALL COMMENCE IN AREAS WHERE PROTECTION IS REQUIRED UNTIL APPROVAL HAS BEEN GIVEN TO THE CONTRACTOR BY THE OWNER.

### MANUFACTURER'S INSTRUCTION

INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS FOR PROPER OPERATION AND MAINTENANCE.

### EQUIPMENT PAINTING AND CLEANING

THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT DEVICES AND ENCLOSURES UPON COMPLETION OF ALL WORK. REPAINT ANY EQUIPMENT WHOSE FINISH IS DAMAGED OR RUSTED. MATCH MANUFACTURER'S ORIGINAL FINISH.

### PENETRATION SEALANT

ALL PENETRATIONS SHALL BE SEALED WITH 3M INTUMESCENT FIRE BARRIER PENETRATION SEALANT, APPLIED PER MANUFACTURER'S AND U.L. GUIDELINES.

### CUTTING, PATCHING, REPAIRING AND PAINTING

THE GENERAL CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, REPAIRING AND PAINTING FOR ALL ELECTRICAL ITEMS AND EQUIPMENT CALLED FOR UNDER THIS CONTRACT.

### TEMPORARY LIGHT AND POWER

FURNISH AND INSTALL TEMPORARY ELECTRICAL SERVICE OF SUFFICIENT SIZE FOR POWER AND LIGHTING USE BY ALL TRADE CONTRACTORS DURING THE COURSE OF CONSTRUCTION. ALL TEMPORARY WORK SHALL BE DONE IN COMPLIANCE WITH ALL APPLICABLE ARTICLES IN THE NATIONAL ELECTRICAL CODE, O.S.H.A. AND WITH ALL REQUIREMENTS OF ANY AUTHORITY HAVING JURISDICTION OVER THE WORK. PROVIDE TEMPORARY POWER CONNECTION TO A CONSTRUCTION TRAILER. THE LOCATION OF THE TRAILER IS TO BE DETERMINED ON SITE. PROVIDE FEEDER TO TRAILER OF SUFFICIENT SIZE TO POWER HEATING, AIR CONDITIONING, GENERAL POWER AND LIGHTING.

### PART 2 - PRODUCTS

#### DESCRIPTION

ALL MATERIALS AND EQUIPMENT PROVIDED UNDER THIS SECTION SHALL BE NEW, FIRST GRADE, BEST OF THEIR RESPECTIVE KINDS AND IN NO WAY SHALL THEY BE LESS THAN THE QUALITY AND INTENT SET FORTH UNDER THIS SECTION. THEY SHALL MEET THE REQUIREMENTS OF ALL STANDARDS SET UP TO GOVERN THE MANUFACTURER OF ELECTRICAL MATERIALS AND COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.

#### WIRE

CONDUCTORS SHALL BE U.L. LISTED, 600 VOLTS, 90 DEG. C. SINGLE CONDUCTOR TYPE THW/THHN, 98% CONDUCTIVITY, ANNEALED UNCOATED COPPER WITH PVC INSULATION COVERED WITH NYLON SHEATH JACKET TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF UNDERWRITERS LABORATORIES STANDARD 83. WIRE SHALL BE IDENTIFIED BY SURFACE MARKING INDICATING MANUFACTURER'S IDENTIFICATION CONDUCTOR SIZE AND METAL VOLTAGE RATING, U.L. SYMBOL AND TYPE DESIGNATION. CONDUCTORS SHALL BE STRANDED.

MINIMUM SIZE SHALL BE #12 AWG UNLESS OTHERWISE INDICATED. MANUFACTURED BY ROME CABLE, TRIANGLE WIRE & CABLE, GENERAL CABLE OR ESSEX WIRE & CABLE.

#### RIGID GALVANIZED STEEL CONDUIT (RGS)

RIGID STEEL CONDUIT SHALL BE FULL WEIGHT, HEAVY WALL STEEL PIPE WITH GALVANIZED PROTECTIVE COATING MANUFACTURED BY TRIANGLE WIRE AND CABLE, ALLEDE TUBO AND CONDUIT, REPUBLIC OR STEELDUCT. CONDUIT FITTINGS SHALL BE MALLEABLE IRON, CADMIUM PLATED WITH FULL THREADED HUBS.

#### RIGID POLYVINYL CHLORIDE CONDUIT (PVC)

RIGID POLYVINYL CHLORIDE CONDUIT SHALL BE SUNLIGHT RESISTANT, RATED OR USE WITH 90 DEGREE C. CONDUCTORS, U.L. RATED, ALL PVC CONDUIT AND FITTINGS SHALL BE SOLVENT WELDED. MANUFACTURED BY CARLON, ELECTRI-FLEX OR PLASTINE.

USE SCHEDULE 80 PVC CONDUIT UNDER PARKING LOT AND OTHER AREAS SUBJECT TO VEHICULAR TRAVEL. USE SCHEDULE 40 PVC CONDUIT UNDER WALKWAYS AND GRASS AREAS.

#### ELECTRICAL METALLIC TUBING (EMT)

ELECTRICAL METALLIC TUBING SHALL BE GALVANIZED THIN WALL STEEL CONDUIT, MANUFACTURED BY TRIANGLE WIRE AND CABLE, ALLEDE TUBO AND CONDUIT, REPUBLIC OR STEELDUCT. THE CONNECTORS AND COUPLINGS SHALL BE HEAVY DUTY, STEEL-ZINC PLATED, SET SCREW TYPE.

#### FITTINGS

CONDUIT BODIES FOR RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE MALLEABLE IRON-ZINC PLATED WITH TAPERED HUBS AND GASKETED ALUMINUM COVER.

CONDUIT BODIES FOR ELECTRICAL METALLIC TUBING (EMT) SHALL BE CAST ALUMINUM-ALUMINUM ENAMEL FINISH WITH SET SCREW HUBS AND ALUMINUM COVER.

INSULATION BUSHINGS SHALL BE HIGH IMPACT THERMOPLASTIC PHENOLIC WITH 150 DEG. C. UL TEMPERATURE RATING.

INSULATED GROUNDING BUSHINGS SHALL BE MALLEABLE IRON ZINC PLATED WITH MOLDED ON PHENOLIC INSULATION AND LAY-IN GROUNDINGS LUG.

CONDUIT LOCKNUTS SHALL BE HEAVY NUT STOCK STEEL-ZINC PLATED.

OFFSET NIPPLES SHALL BE MALLEABLE IRON ZINC PLATED WITH RIGID CONDUIT THREADING AND 3/4" OFFSET.

CONNECTORS AND COUPLINGS FOR ELECTRICAL METALLIC TUBING (EMT) SHALL BE HEAVY STEEL-ZINC PLATED WITH PRE-SET/PRE-SHAKED SET SCREWS.

CONDUIT STRAPS SHALL BE SNAP-TYPE, DOUBLE RIBBED STEEL-ZINC PLATED.

CONDUIT FITTINGS SHALL BE MANUFACTURED BY OZ GEDNEY, CROUSE-HINDS OR APPLETON.

#### SUPPORT FITTINGS

SUPPORT CHANNEL SHALL BE ROLL-FORMED #12 GAUGE STEEL, SOLID BASE OR BOLT-HOLE BASE - HOT DIP GALVANIZED FINISH, COMPLETE WITH ANGLE FITTINGS, SPRINGS NUTS, CONDUIT SUPPORTS, 3/8" OR 1/2" THREADED RODS (SIZE REQUIRED FOR LOAD), ETC.

#### CABLE TIES

CABLE TIES SHALL BE FABRICATED OF ONE-PIECE HALLAR WITH NO METAL PARTS, MANUFACTURED BY BURNDY, TAB, PANDUIT OR BLACKBURN.

#### OUTLET BOXES

OUTLET BOXES SHALL BE GALVANIZED STEEL, FLUSH OR SURFACE MOUNTED AND OF PROPER TYPE AND SIZE AS REQUIRED FOR THE PARTICULAR APPLICATION. SIZE AND TYPE DICTATED BY THE NUMBER OF DEVICES (3 GANG MINIMUM WITH SINGLE GANG PLASTER RING FOR SINGLE DEVICE LOCATIONS), NUMBER OF CONDUCTORS AND WIRING METHOD UTILIZED. BOXES SHALL BE ADEQUATE SIZE FOR THE INSTALLATION OF CONDUCTORS WITHOUT EXCESSIVE BENDING OR DRIPPING OF THE CONDUCTORS AND DAMAGING OF CONDUCTOR INSULATION.

MANUFACTURED BY STEEL CITY OR RACO.

OUTLET BOXES SHALL BE SECURED FIRMLY IN PLACE AND SET TRUE AND SQUARE. PROVIDE SUITABLE MEANS TO SUPPORT OUTLET BOX TO TAKE THE WEIGHT OF THE LIGHTING FIXTURE OR CEILING. OUTLET BOX OR BOX EXTENSION RINGS SHALL BE SET FLUSH TO THE FINISHED WALL OR CEILING. BOXES MUST BE ATTACHED THAT THEY WILL NOT ROT, SHIFT OR MOVE IN AND OUT WHEN DEVICES ARE USED. IN NO CASE SHALL BOXES BE INSTALLED BACK-TO-BACK IN A COMMON WALL DIVIDING TWO SPACES.

#### PANELBOARDS

PANELBOARDS SHALL BE THE COMBINATION THERMALMAGNETIC CIRCUIT BREAKER TYPE, 3 PHASE, 4 WIRE WITH THE NUMBER OF BRANCH CIRCUITS AS INDICATED ON THE SCHEDULES. PROVIDE WITH FULLY RATED HARD-DRAWN COPPER 18 PERCENT CONDUCTIVE PHASE AND GROUND BUS. LUGS SIZED TO ACCOMMODATE WIRE QUALITY AND SIZES. PANELS SHALL BE U.L. LISTED, DOOR-IN-DOOR DESIGN. BOXES SHALL BE CORROSION RESISTANT, ZINC FINISH GALVANIZED. FRONTS SHALL BE REINFORCED STEEL POWDER FINISH PAINTED LIGHT GRAY (AN51-61) AND SHALL BE EQUIPPED WITH CONCEALED HINGES AND CONCEALED TRIM ADJUSTING SCREWS.

DIRECTORY CARD HOLDERS SHALL BE CORROSION-PROOF VALOX WITH RETRACTABLE LATCH. KEYS ALIKE PHASE BUS SHALL BE SEQUENCED AND FULLY INSULATED RATINGS SHALL BE DISPLAYED ON THE DEAD FRONT SHIELD AND TOTALLY VISIBLE WITH THE DOOR OPEN. REFER TO SCHEDULES FOR OTHER REQUIREMENTS.

#### CIRCUIT BREAKERS

BRANCH CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK, BOLT-IN THERMALMAGNETIC TYPE WITH VISIBLE CURRENT RATING AND TRIP POSITION, MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE D OR CUTLER-HAMMER. REFER TO SCHEDULES FOR RAC RATING.

ALL MULTI-POLE BREAKERS SHALL BE EQUIPPED WITH HANDLE TIES FOR MULTI-POLE USE.

#### PHASE SEQUENCE AND BALANCING

MAINTAIN CORRECT PHASE SEQUENCE OF ALL FEEDERS AND CIRCUITS WITH PHASE IDENTIFICATION THROUGHOUT THE ENTIRE SYSTEM, BALANCING ALL FEEDERS AND CIRCUITS TO WITHIN 10 PERCENT.

#### JUNCTION BOXES, PULLBOXES AND HANDHOLES

JUNCTION BOXES, PULLBOXES AND WIREWAYS SHALL BE OF PROPER TYPE AND SIZES AS REQUIRED. CODE GAUGE, GALVANIZED STEEL WITH KNOCKOUTS AND FLANGES TO RECEIVE THE COVERS. COVERS SHALL BE FLAT. OF THE SAME MATERIAL AS THE BOX AND FASTENED TO THE BOX WITH MACHINE SCREWS, MANUFACTURED BY HOFFMAN, SQUARE D, OR LEE PRODUCTS.

UNDERGROUND HANDHOLES SHALL BE POLYMER CONCRETE, OPEN BOTTOM TYPE. SIZE AS REQUIRED TO ACCOMMODATE CONDUIT QUANTITIES AND ENTRY POINTS. TIE RATING AS APPROPRIATE FOR INSTALLATION LOCATION. QUATITEZ OR EQUAL.

#### WIRING DEVICES

ALL DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE, U.L. LISTED, SELF-GROUNDING, GROUND LUG, SIDE-BACK WIRED, 20A RATED. COLOR SHALL BE SELECTED BY ARCHITECT OR OWNER UNLESS OTHERWISE INDICATED. MANUFACTURED BY HUBBELL, LEVITON, OR PASS A SEMIOUR.

RECEPTACLES LOCATED IN WET LOCATIONS SHALL BE INSTALLED WITH AN OUTLET ENCLOSURE CLEARLY MARKED "SUITABLE FOR WET LOCATIONS WHILE IN USE. THERE MUST BE A GASKET BETWEEN THE COVER AND THE BASE TO ASSURE A PROPER SEAL. THE ENCLOSURE MUST EMPLOY STAINLESS STEEL MOUNTING HARDWARE AND BE CONSTRUCTED OF IMPACT RESISTANT POLYCARBONATE. THE OUTLET ENCLOSURE SHALL BE U.L. LISTED, MANUFACTURED BY TAYMCK, CARLON, OR APPROVED EQUAL.

#### LIGHTING FIXTURES

FURNISH AND INSTALL ALL LIGHTING FIXTURES AS SPECIFIED ON THE SCHEDULES, COMPLETE WITH ALL ACCESSORIES, LOUVERS, LAMPS AND MOUNTING HARDWARE. THE FIXTURES SHALL BE MARKED AS TYPE A, B, C, ETC.

PROVIDE BASIS OF DESIGN FIXTURES LISTED IN LIGHTING FIXTURE SCHEDULE. ANY PROPOSED ALTERNATIVE LIGHTING FIXTURES SHALL BE EQUAL TO OR BETTER THAN THE BASIS OF DESIGN FIXTURES AS IT RELATES TO LIGHT CONTROL, SPILL, LIGHT LEVELS, UNIFORMITY, EFFICIENCY, GLARE AND OTHER SUCH CHARACTERISTICS.

CLEAN AND REMOVE ALL PAINT, STICKERS, DIRT, SMUDGES AND FINGERPRINTS FROM LIGHTING FIXTURES AFTER FINAL BUILDING CLEAN-UP.

#### LIGHTING CONTROLS SYSTEM

PROVIDE BASIS OF DESIGN LIGHTING CONTROL SYSTEM SHOWN ON THE DRAWINGS. ANY PROPOSED ALTERNATIVE LIGHTING CONTROL SYSTEM SHALL BE EQUAL TO OR GREATER THAN THE BASIS OF DESIGN SYSTEM CONTROLLABILITY, FUNCTIONALITY, PROGRAMMABILITY AND REMOTE ACCESS.

PROVIDE ALL COMPONENTS AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM, INCLUDING CONTROL DEVICES, WIRING, SWITCHES, LINE VOLTAGE CONNECTIONS, 0-10V CONTROL, WIRING AND OTHER SUCH ITEMS.

### PART 3 - EXECUTION

#### INSTALLATION

ALL WORK, MATERIALS AND MANNER OF INSTALLING SAME SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

ALL CONDUIT AND WIRING SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.

WIRING IN UNFINISHED AREAS INSIDE BUILDINGS SHALL BE INSTALLED EXPOSED USING EMT OR RGS CONDUIT.

### RACEWAYS

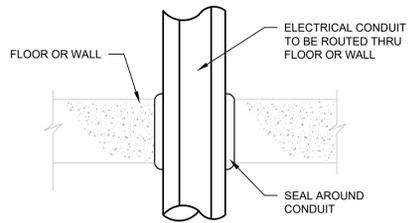
RACEWAYS, ENCLOSURES AND BOXES SHALL BE MECHANICALLY JOINED TO FORM A CONTINUOUS ELECTRICAL PATH.

THE CONTRACTOR SHALL PROVIDE APPROVED TYPE PULL BOXES AS REQUIRED.

MINIMUM SIZE CONDUIT SHALL BE 1" UNLESS OTHERWISE NOTED.

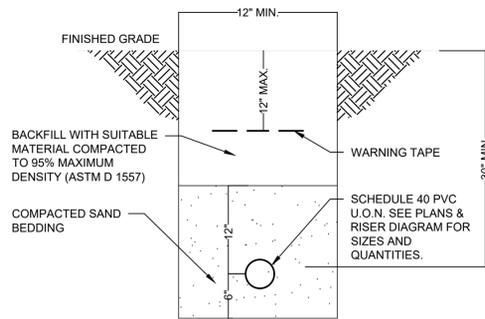
FURNISH NYLON PULL STRINGS IN ALL EMPTY CONDUIT RUNS.

FURNISH LOCKNUTS AND



**NON-FIRE RATED CONDUIT PENETRATION THROUGH FLOOR OR WALL DETAIL**

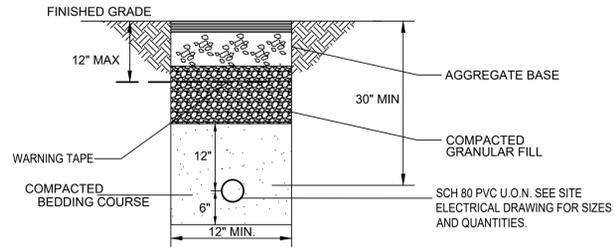
1 ES-1 NOT TO SCALE



- NOTES:
1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION. THE TRENCH SHALL BE BACKFILLED IMMEDIATELY FOLLOWING PLACEMENT OF OTHER CONDUITS.
  2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES
  3. MAINTAIN 12" SEPARATION FROM OTHER UTILITIES (E.G. WATER, COMMUNICATIONS, SANITARY, ETC.)

**CONDUIT INSTALLATION IN GRASS**

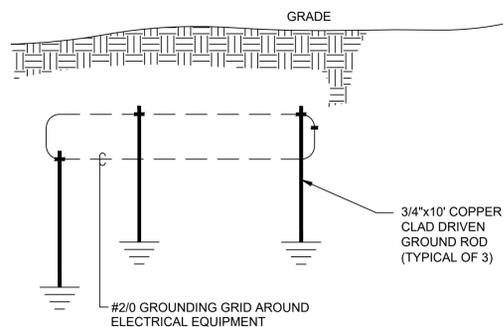
2 ES-1 NTS



- NOTES:
1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION. THE TRENCH SHALL BE BACKFILLED IMMEDIATELY FOLLOWING PLACEMENT OF THE CONDUITS.
  2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.
  3. MAINTAIN 12" SEPARATION FROM OTHER UTILITIES (E.G. WATER, COMMUNICATIONS, SANITARY, ETC.)

**CONDUIT INSTALLATION IN BITUMINOUS**

3 ES-1 NTS



- NOTES:
1. ALL ASPECTS OF GROUNDING SYSTEM SHALL COMPLY FULLY WITH ARTICLE 250 OF N.E.C.
  2. UTILIZE GROUNDING BUSHINGS AS REQUIRED.
  3. PROVIDE AT PAD MOUNTED ENCLOSURE & CONNECT TO SERVICE GROUND BAR.
  4. GROUND RODS SHALL BE 6'-0" APART.

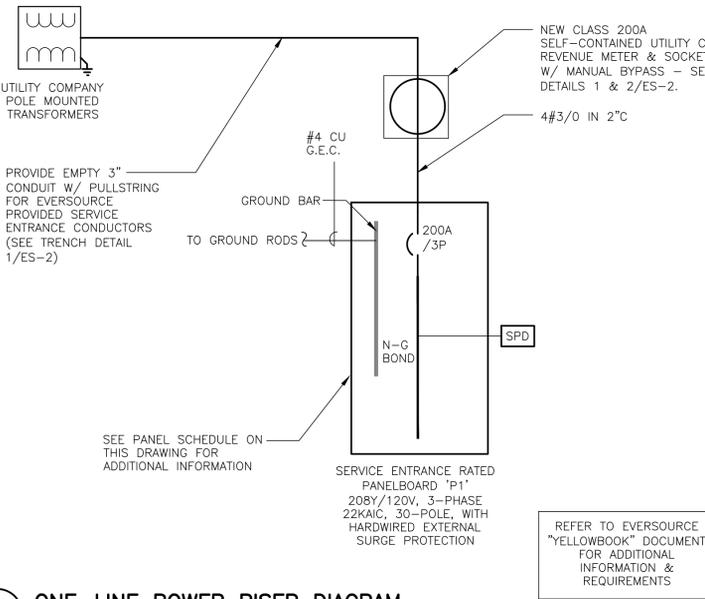
**GROUND RODS / RING DETAIL**

4 ES-1 NTS

**LIGHT FIXTURE SCHEDULE**

TYPE	BASIS OF DESIGN	DESCRIPTION	VOLTAGE	LAMPING	REMARKS
SL3S	U.S. ARCHITECTURAL LIGHTING RZRM-PLED-III-W-48LED-525mA-40K-120-1-BLACK-HS-PLED (FIXTURE) SNTS-204-11-1-BLK (POLE)	POLE MOUNTED LED AREA LIGHT, TYPE III WIDE DISTRIBUTION, 4000°K, BLACK FINISH, MOUNTED TO A 20' HIGH 4" STRAIGHT SQUARE STEEL POLE	120V	LED, 81W	1, 2
SL4	U.S. ARCHITECTURAL LIGHTING RZRM-PLED-IV-FT-48LED-525mA-40K-120-1-BLACK-HS-PLED (FIXTURE) SNTS-204-11-1-BLK (POLE)	SAME AS TYPE 'SL3S', BUT WITH TYPE IV FORWARD THROW DISTRIBUTION PATTERN	120V	LED, 81W	1, 2
SL5	U.S. ARCHITECTURAL LIGHTING RZRM-PLED-VSQ-M-48LED-525mA-40K-120-1-BLACK-HS-PLED (FIXTURE) SNTS-204-11-1-BLK (POLE)	SAME AS TYPE 'SL3S', BUT WITH MEDIUM SQUARE DISTRIBUTION PATTERN	120V	LED, 81W	1, 2

- NOTES:
1. PROVIDE ALL NECESSARY MOUNTING HARDWARE, BRACKETS, ETC.
  2. PROVIDE PRODUCTS AS SPECIFIED. ANY PROPOSED ALTERNATIVE FIXTURES MUST BE EQUAL TO OR BETTER THAN BASIS OF DESIGN AS IT RELATES TO MATERIAL/CONSTRUCTION, EFFICIENCY, COLORS/FINISHES, WATTAGE, LUMEN OUTPUT, ETC. PROVIDE PHOTOMETRIC CALCULATIONS DEMONSTRATING EQUAL PERFORMANCE.



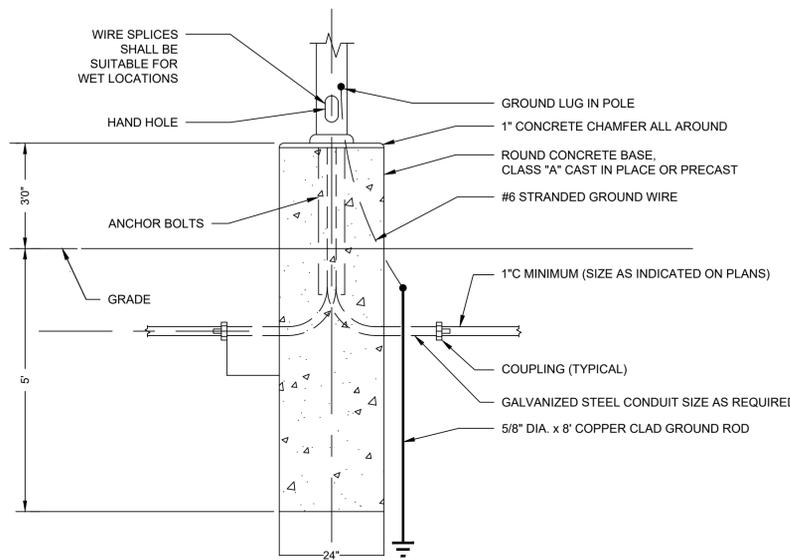
**ONE-LINE POWER RISER DIAGRAM**

5 ES-1 NOT TO SCALE

MANUFACTURER: T.B.D. (NEW)		MLO OR MCB: MCB		PANEL: PANEL P1			
TYPE: PANEL		FEED: SEE RISER		VOLTAGE: 208Y/120V, 3-PHASE			
MOUNTING: SURFACE		CU OR AL WIRE: CU		MAIN AMPS: 200A MCB			
LOCATION: SEE PLANS		AIC RATING: 22 KAIC		FEEDER: SEE RISER			
BREAKER OPTIONS:							
CKT NO.	LOAD	KVA	BRKR	BRKR	KVA	LOAD	CKT NO.
1	SPARE		20	20		SPARE	2
3	SPARE		20	20		SPARE	4
5	SPARE		20	20		SPARE	6
7	SPARE		20	20		SPARE	8
9	SPARE		20	20		SPARE	10
11	SPARE		20	20		SPARE	12
13	SPARE		20	20		SPARE	14
15	SPARE		20	20	0.50	RECEPTACLE IN ENCLOSURE	16
17	SPARE		20	20	0.50	ENCLOSURE HEATER	18
19	SCOREBOARD #1	0.20	20	20	1.00	RECEPTACLES (SOUTH)	20
21	SCOREBOARD #2	0.20	20	20	0.40	PARKING LOT LIGHTING	22
23	SPARE		20	20	1.50	RECEPTACLES (NORTH)	24
25	EMPTY SPACE / PROVISIONS		100			SURGE PROTECTIVE DEVICE	26
27	EMPTY SPACE / PROVISIONS						28
29	EMPTY SPACE / PROVISIONS						30

**MAIN SERVICE PANEL 'P1' SCHEDULE**

6 ES-1 NTS



- DETAIL NOTES:
1. CONTRACTOR SHALL CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS, SIZE OF BOLT CIRCLE, ETC. WITH THE POLE MANUFACTURER PRIOR TO INSTALLATION OF THE POLE BASES.
  2. CHAMFER ALL EXPOSED EDGES OF THE POLE BASES.
  3. PROVIDE INSULATED GROUNDING BUSHING ON EXPOSED END OF ALL GALVANIZED STEEL BENDS IN BASE OF POLE.
  4. BASE SHALL BE CAST IN PLACE OR PRECAST.

**PARKING LOT LIGHT POLE FOUNDATION DETAIL**

7 ES-1 NTS



DESCRIPTION	DATE	BY

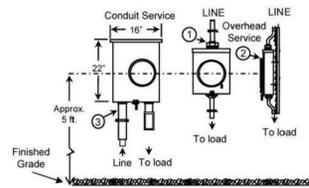
**SITE ELECTRICAL DETAILS & SCHEDULES**

NORHT END FIELD  
BALLFIELD RECONSTRUCTION  
210 BRITANNIA STREET  
MERIDEN, CONNECTICUT

SG	SG	SG
DESIGNED	DRAWN	CHECKED
SCALE: AS NOTED		
DATE: AUGUST 29, 2022		
PROJECT NO.: 14792.00004		
SHEET NO.: -- OF --		

**ES-1**

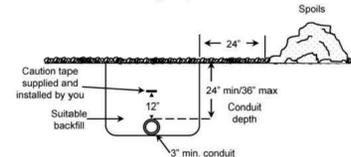
**FIGURE 10  
Self-Contained Meter Socket Sequence and Mounting Arrangement**



1. Weatherproof joint with removable or non-removable hub.
2. Socket shall be mounted plumb. On clapboard shingle siding, socket shall be located on the high point of two clapboards.
3. Slip joint for conduit service shall be installed on left side of meter socket only.

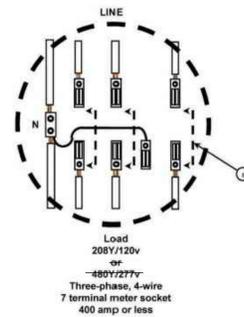
- Notes:**
- A. All network and 480Y/277 volt services will require a main disconnect ahead of the meter (cold sequence).
  - B. Self-contained meter sockets are required for:
    - Single-phase 120/240 volt, 400 amp service entrance capacity or less.
    - Single-phase 120/208 volt, 400 amp service entrance capacity or less.
    - Three-phase 400 amp service entrance capacity or less.
  - C. All equipment (except meter) furnished, installed, owned and maintained by you.
  - D. Bond at service equipment in accordance with NEC Article 250. The grounding electrode conductor connection shall be made at an accessible location in the service equipment and not in the meter socket. The grounding electrode conductor shall not be run through the meter socket. For Cold Sequenced service see p 39 Section 8.E.1a.

**FIGURE 9  
Trenching Requirements**

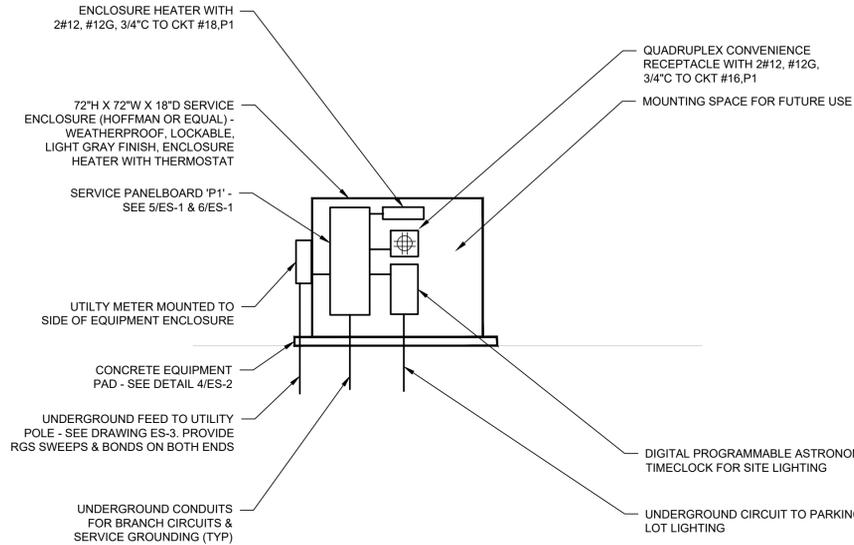


- Notes:**
- A. OSHA standards require that spoils shall be placed 24" from edge of trench.
  - B. Suitable backfill shall not contain ash, cinder, shell, frozen material, loose debris or stones larger than 2" max. dimension.
  - C. All Electrical grade Schedule 40 PVC conduit will be listed and labeled for Direct Buried and above ground use.
  - D. **Horizontal Clearance** - shall be 12 inches minimum or more as necessary to permit access for maintenance of all facilities without damage to the others. This includes private wiring. Fuel (Gas and Oil) and Water Lines shall be no closer than 18 inches in all directions.
  - E. **Vertical Crossing Clearance** - shall be so constructed and supported that upper facility will not transfer harmful load onto any lower facility. There shall be adequate vertical clearance to permit access for maintenance of all facilities without damage to the others. In general, 12 inches is considered adequate separation, but the parties involved may agree to a lesser separation. Fuel (Gas and Oil) and Water Lines shall be no closer than 18 inches in all directions.
  - F. You will provide and install the caution tape which meets the requirements of Section 16-345-3 of the Regulations of Connecticut State Agencies. The tape shall be red polyethylene, 6" wide X 4 mils thick with black lettering of a minimum letter size of 120 Helvetica Light. It shall contain the following continuous printed warning: "Caution - Electric Line Buried Below"  
**Metallic Foil tape is NOT acceptable.**
  - F. All conduit shall be inspected by the local municipal authority prior to backfilling.

**FIGURE 21  
Three-Phase Self-Contained Metering Connections**



1. An approved lever operated manual bypass with jaw release and flash shield.
- Notes:**
- A. Bond at service equipment in accordance with NEC Article 250. The grounding electrode conductor connection shall be made at an accessible location in the service equipment and not in the meter socket. The grounding electrode conductor shall not be run through the meter socket.
  - B. All three-phase network and 480Y/277 volt services will require a main disconnect with over current protection ahead of the meter (Cold Sequence).



- NOTES:**
1. PROVIDE EQUIPMENT PAD UNDER ENCLOSURE - SEE PAD DETAIL 4/ES-2.
  2. PROVIDE GROUND RING AROUND ENCLOSURE PAD - SEE GROUND RING DETAIL 4/ES-1.
  3. SEE DRAWING ES-1 FOR PANEL SCHEDULE, EQUIPMENT RATINGS, CONDUIT SIZING AND CONDUCTOR SIZING.
  4. CONDUIT SWEEPS SHALL BE RIGID GALVANIZED STEEL.

**1 EVERSOURCE TRENCH & METER DETAILS**

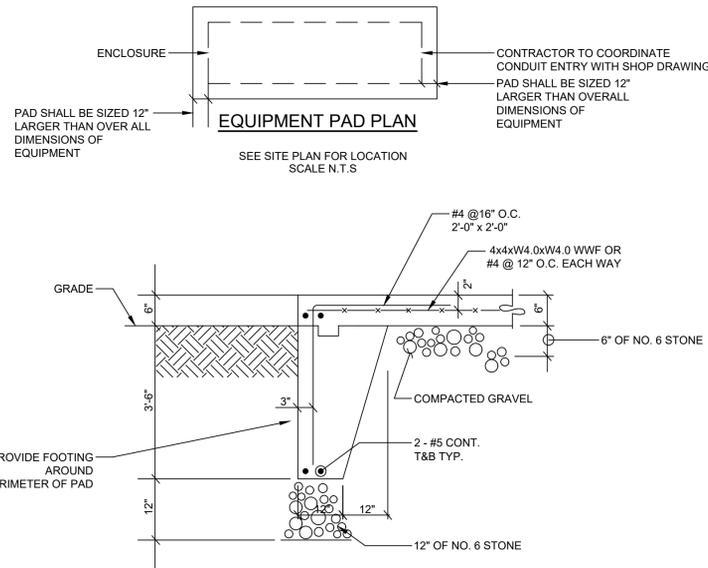
ES-2 NOT TO SCALE

**2 EVERSOURCE SELF-CONTAINED METER DETAIL**

ES-2 NTS

**3 PAD MOUNTED ENCLOSURE DETAILS**

ES-2 NTS



- NOTES:**
1. 4,000 PSI CONCRETE WITH 6% AIR ENTRAINMENT
  2. ASTM A-615, 60,000 PSI REINFORCING STEEL
  3. ASTM A-185 WELDED WIRE FABRIC
  4. PROVIDE A SMOOTH BROOM FINISH
  5. PROVIDE #2/0 FROM UNCOATED REBAR TO GROUND RING ON OPPOSITE CORNERS OF THE EQUIPMENT PAD - SEE DETAIL 4/ES-1 FOR GROUND RING DETAIL.

**4 EQUIPMENT PAD DETAIL**

ES-2 NTS



DESCRIPTION	DATE	BY

**SITE ELECTRICAL DETAILS**  
NORTH END FIELD  
BALLFIELD RECONSTRUCTION  
210 BRITANNIA STREET  
MERIDEN, CONNECTICUT

SG DESIGNED SG DRAWN SG CHECKED

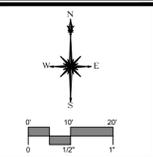
SCALE AS NOTED

DATE AUGUST 29, 2022

PROJECT NO. 14792.00004

SHEET NO. -- OF --

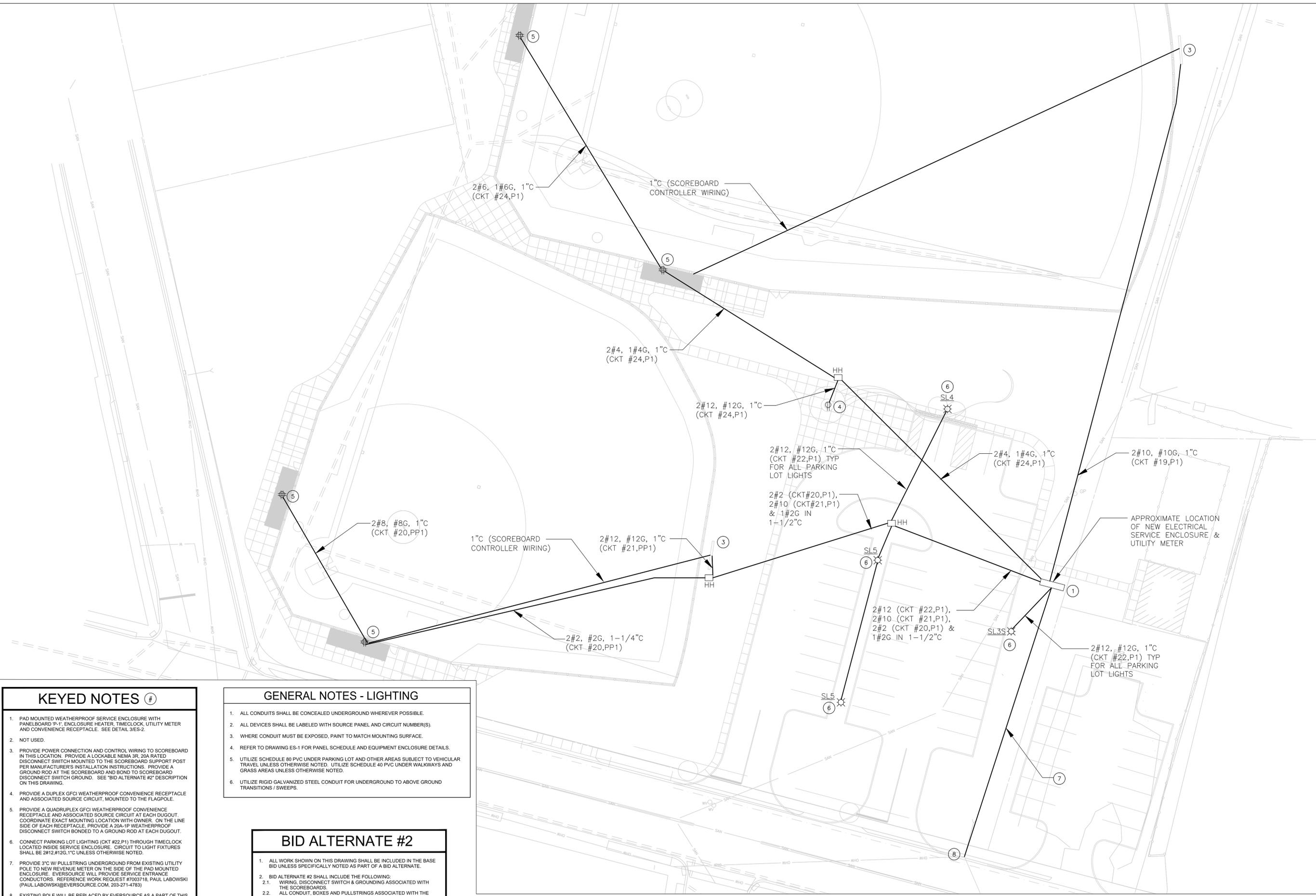
**ES-2**



DESCRIPTION	DATE	BY

**SITE ELECTRICAL PLAN**  
**NORHT END FIELD**  
**BALLFIELD RECONSTRUCTION**  
 210 BRITANNIA STREET  
 MERIDEN, CONNECTICUT

DESIGNED	SG	SG	SG
DRAWN			
CHECKED			
SCALE: AS NOTED			
DATE: AUGUST 29, 2022			
PROJECT NO: 14792.00004			
SHEET NO: -- OF --			
<b>ES-3</b>			



- KEYED NOTES #**
- PAD MOUNTED WEATHERPROOF SERVICE ENCLOSURE WITH PANELBOARD P-1; ENCLOSURE HEATER, TIMECLOCK, UTILITY METER AND CONVENIENCE RECEPTACLE. SEE DETAIL 3ES-2.
  - NOT USED.
  - PROVIDE POWER CONNECTION AND CONTROL WIRING TO SCOREBOARD IN THIS LOCATION. PROVIDE A LOCKABLE NEMA 3R, 20A RATED DISCONNECT SWITCH MOUNTED TO THE SCOREBOARD SUPPORT POST PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A GROUND ROD AT THE SCOREBOARD AND BOND TO SCOREBOARD DISCONNECT SWITCH GROUND. SEE "BID ALTERNATE #2" DESCRIPTION ON THIS DRAWING.
  - PROVIDE A DUPLEX GFCI WEATHERPROOF CONVENIENCE RECEPTACLE AND ASSOCIATED SOURCE CIRCUIT, MOUNTED TO THE FLAGPOLE.
  - PROVIDE A QUADRUPLEX GFCI WEATHERPROOF CONVENIENCE RECEPTACLE AND ASSOCIATED SOURCE CIRCUIT AT EACH DUGOUT. COORDINATE EXACT MOUNTING LOCATION WITH OWNER. ON THE LINE SIDE OF EACH RECEPTACLE, PROVIDE A 20A-1P WEATHERPROOF DISCONNECT SWITCH BONDED TO A GROUND ROD AT EACH DUGOUT.
  - CONNECT PARKING LOT LIGHTING (CKT #22,P1) THROUGH TIMECLOCK LOCATED INSIDE SERVICE ENCLOSURE. CIRCUIT TO LIGHT FIXTURES SHALL BE 2#12,#12G, 1" C UNLESS OTHERWISE NOTED.
  - PROVIDE 3" CW PULLSTRING UNDERGROUND FROM EXISTING UTILITY POLE TO NEW REVENUE METER ON THE SIDE OF THE PAD MOUNTED ENCLOSURE. EVERSOURCE WILL PROVIDE SERVICE ENTRANCE CONDUCTORS. REFERENCE WORK REQUEST #703718, PAUL LABOWSKI (PAUL.LABOWSKI@EVERSOURCE.COM, 203-271-4783)
  - EXISTING POLE WILL BE REPLACED BY EVERSOURCE AS A PART OF THIS PROJECT. HOLD CONDUIT ~10' BACK FROM POLE UNTIL IT IS REPLACED. PROVIDE STEEL SWEEP AT THE BASE OF THE UTILITY POLE. EVERSOURCE WILL BOND THE SWEEP AT THIS LOCATION.

- GENERAL NOTES - LIGHTING**
- ALL CONDUITS SHALL BE CONCEALED UNDERGROUND WHEREVER POSSIBLE.
  - ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
  - WHERE CONDUIT MUST BE EXPOSED, PAINT TO MATCH MOUNTING SURFACE.
  - REFER TO DRAWING ES-1 FOR PANEL SCHEDULE AND EQUIPMENT ENCLOSURE DETAILS.
  - UTILIZE SCHEDULE 80 PVC UNDER PARKING LOT AND OTHER AREAS SUBJECT TO VEHICULAR TRAVEL UNLESS OTHERWISE NOTED. UTILIZE SCHEDULE 40 PVC UNDER WALKWAYS AND GRASS AREAS UNLESS OTHERWISE NOTED.
  - UTILIZE RIGID GALVANIZED STEEL CONDUIT FOR UNDERGROUND TO ABOVE GROUND TRANSITIONS / SWEEPS.

- BID ALTERNATE #2**
- ALL WORK SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE BASE BID UNLESS SPECIFICALLY NOTED AS PART OF A BID ALTERNATE.
  - BID ALTERNATE #2 SHALL INCLUDE THE FOLLOWING:
    - WIRING, DISCONNECT SWITCH & GROUNDING ASSOCIATED WITH THE SCOREBOARDS.
    - ALL CONDUIT, BOXES AND PULLSTRINGS ASSOCIATED WITH THE SCOREBOARDS SHALL BE INCLUDED IN THE BASE BID.

**1** ELECTRICAL SITE PLAN  
 ES-3 SCALE: 1"= 20'-0"